Animal Husbandry
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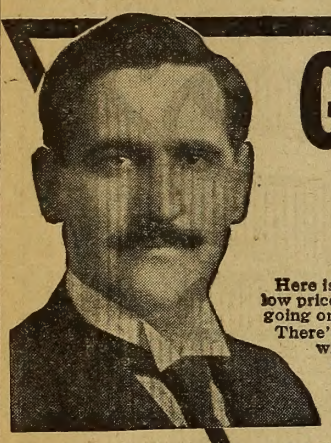
The Iowa Homestead

VOL. LVIII. NO. 1 DES MOINES, IOWA, JANUARY 2, 1913. WHOLE NO. 2882.

3 BARGAINS

Settle Your Doubts Right Now of Whom To Buy That Farm Engine, Cream Separator, Manure Spreader. Get My Low Prices. Your Dollar Will Go Twice As Far With Me As Elsewhere. My Free Books Prove It.



GALLOWAY'S 1913 MODEL FARM ENGINE

The Best Engine Ever Made For Farm Use Is Bargain No. 1

Here is the time that you positively must take advantage of my low price offer and get a Galloway New 1913 Model Farm Engine going on your farm.

There's no use putting it off any longer. I've got the engine that will do just what you want it to do—at all times, winter and summer—and you can buy it for $50 to $300 less than others charge you for an old model.

Here's What You Get When You Buy a Galloway

A farm engine that's *so simple* in construction, you don't have to be a mechanic to understand it;

So *economical*, it costs but a few pennies for gasoline to do a big job;

So *reliable*, it won't go wrong;

So *efficient*, a touch starts it going;

So *durable*, I give you a guarantee of perfect satisfaction; and what's more—I'll send you the engine on 30 to 90 days' FREE trial, give you a 5-year guarantee that the engine lives up to all my claims, let you pay for it on installments or any way that you choose.

You can't go wrong on a deal like this. My FREE trial offer protects you. If you don't want the engine after the trial, send it back. I won't charge you a cent for the use you have had of it, and I'll pay all freight charges.

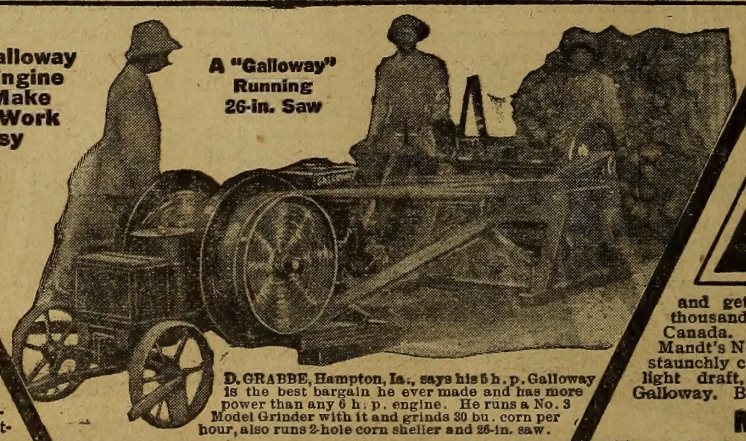
Free Book Reveals The Secret

of my exceptionally low prices and why I can undersell everybody on engine of equal quality. It also explains what a good engine should be and how much to pay for it. Write for my special 1913 proposition and prices, now, before you forget it—and learn what a *real bargain* you can get dealing with me. Address, WM. GALLOWAY, Pres.

The Wm. Galloway Co., 108CK Galloway Sta., Waterloo, Ia.

Here You Save $50 to $300 Easily And Get the Worlds Best Farm Engine

Get a Galloway Farm Engine and Make Farm Work Easy



A "Galloway" Running 26-in. Saw

D. GRABBE, Hampton, Ia., says his 5 h. p. Galloway is the best bargain he ever made and has more power than any 6 h. p. engine. He runs a No. 3 Model Grinder with it and grinds 30 bu. corn per hour, also runs 2-hole corn sheller and 26-in. saw.

Galloway's Bath-In-Oil Separator

(Bargain No. 2)

Mr. Dairyman and Farmers, here's where you and Galloway come together on the greatest separator proposition ever put before the American people.

You've been thinking about buying a new separator for a long time — now's your chance—for

Here You Save $20 to $45

and get a 1913 Model Bath-In-Oil Separator—the *easiest to clean, easiest to run*, greatest *result-producing* separator on the market.

My New 1913 Separator looks 10 years ahead of the rest in improvements. It's the only one with *swinging* supply tank of heavy metal, round corners; all gears enclosed; self-oiling; perfect skimmer under all conditions; all parts standard, interchangeable; and better in its mechanical construction than separators costing at least 50% more.

Don't buy any separator from anyone, until you try my 1913 model. It comes to you on 90 days' free trial. After the trial, if you don't think my separator better than any other, send it right back and I won't charge you a cent for the use you have had of it.

A Separator Book Worth Having

sent free upon request. It tells what size to buy for your needs, explains working parts, how to get the most out of a separator, other valuable information — also my low price, 90-day-trial, introductory offer, TEN year guarantee, etc.

This picture shows exactly how handy a Galloway separator is with respect to the height of supply tank and crank handle. The milk tank is only waist high—just 39 in. from floor, and the center of crank shaft is 35 in. from the floor, which makes it the most convenient height to apply the power.

WM. GALLOWAY, Pres.

THE WILLIAM GALLOWAY COMPANY

108CK Galloway Station, Waterloo, Iowa

Your Name On a Postal Will Bring You Either Or All of My 3 Books and 1913 Low Price Offer

Ask for 1913 Bargain Sheet.

The Wonder of 1913

Galloway's Spreader

(Bargain No. 3)

If there's a farmer friend of mine anywhere that's running his place without a spreader of his own, I want to tell him some good news.

You need a spreader badly, you need it for the sake of your soil, the sake of your crops, for the sake of your profits — and there's absolutely no reason why you should go without one another season—when

Here You Save $25 to $50

and get the spreader that's making good on thousands upon thousands of farms in the U. S. and Canada. Nowhere else can you get a spreader with Mandt's New Gear, a spreader so mechanically perfect, staunchly constructed, with special patented features, light draft, general appearance and finish as the Galloway. Besides

My 1913 Models

with more liberal measurements, greater capacities, come to you on a 30 to 90 day free trial, 5-year guarantee of satisfaction or money back. I'll take your note if you like or let you pay for it on some other plan in order to let you get this *best* of all manure spreaders.

The Greatest Book of All — "A Streak of Gold" which contains articles on farm management, will be sent you free upon postal request. Write now and I'll also send you my low price offer on 1913 models. Address

Wm. Galloway, Pres.,
The Wm. Galloway Company,
108CK
Galloway Sta.,
Waterloo, Ia.

Galloway's Manure Spreader
—the great crop maker—at work on farm of CHAS. O. ANDERSON, Minden, Neb.

REMEMBER—We carry stocks of all our machines at Chicago, Kansas City, Council Bluffs and St. Paul, insuring prompt shipment.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JANUARY 2, 1913.

PARCEL POST A BOON TO FARMERS

How the New System, Which Went Into Effect January First, Is Expected to Enlarge the Farmer's Market for Small Produce and Reduce His Own Cost of Living.

THE parcel post system, which went into effect January first, is destined to have a two-fold object: To increase the market of the producer and to decrease the living expenses of the consumer. It is doubtful if any class of people will be more directly or more materially affected (and this beneficially) than the farmer. Under the system as now in force, it is possible for any farmer living upon any one of the 42,000 rural free delivery routes to ship fresh produce (such as butter, eggs and dressed poultry) direct to the consumer in the adjacent town or city, at the rate of five cents for the first pound and one cent a pound for the subsequent ten pounds, thus cutting out the middleman entirely, while at the same time the same carrier delivers to his R. F. D. box, groceries, machine repair parts and articles of merchandise, which it has heretofore been absolutely impossible to secure by mail, at such a reduced rate as to materially cut down his own cost of living. This example is typical: "There was a little implement I wanted the other day from another farm, so I called up my friend on the telephone and asked him to send it to me by mail. He could not do so because it weighed five pounds, so he was obliged to hitch up a horse, drive three miles to the express office, pay twenty-five cents to bring it to an express office two and one-half miles from my farm, with a river running between. I had to hitch up a horse and drive two and one-half miles in each direction, paying thirty cents for ferrying across the river, so that it cost me in all, more than $1.00 to get that small repair part, to say nothing of the great inconvenience both to my farmer friend and to myself." Under the new system it is possible for this repair part of five pounds weight to be sent by mail for only nine cents, about one-tenth of what it cost under the old system.

That the farmer is quick to realize the great opportunities which will be opened up to him by the new parcel post system, is evidenced by the general interest which he has shown in the subject and by the large number of letters which have been received by the officials of the department of agriculture and the postoffice department. Letters have reached these departments showing that truck gardeners, farmers and poultrymen are eager to build up a daily farm service among regular customers for shipments of eggs, butter and chickens. Such transactions, the department believes, to a large extent, will remove both the producer and consumer from the manipulation of the food jobber, charged in practically [illegible] the large cities of the coun[illegible] with buying at the lowest m[illegible]k to which he can batter the prices and then selling at whatever figure his control of the market can give.

THE R. F. D. CARRIER BECOMES THE COMMUNICATION BETWEEN PRODUCER AND CONSUMER, CUTTING OUT THE MIDDLEMAN.

It is pointed out that the farmers surrounding the larger cities, heretofore almost entirely at the mercy of the express companies, invariably held eggs, butter and other produce until such time as they had considerable bulk to send to the food jobbers at a shipment that would insure the lowest possible transportation charges. Under the old system eggs and other perishable farm produce frequently are several days old before reaching the consumer. The department officials are certain that a vastly freer movement of all farm produce will result now that the parcel post has become effective and that great encouragement will be given to the small farm producer and poultryman far ahead of former conditions with their concentration in the buying and selling of food products. This concentration will be wiped out, the department officials believe, through the building up of a mail order business for the handling of small farm products. The department has sent out notification that skill in packing the produce will be an important feature in the successful conduct of the business and the design of cartons of minimum weight with maximum security for fragile shipments will call for ingenuity. It is believed that cartons will be devised so that they can be used repeatedly, just as bottles are now used in the milk trade in the large cities. The department officials foresee such a rapid growth of the parcel post system that daily service will be extended far beyond the shipment of butter and eggs. It is believed farmers will supply city consumers with berries of all kinds, shipped at a minimum cost, vegetables and ripened fruit, picked immediately before shipment.

The specific manner in which all this will work out to the profit not only of the producer but of the consumer as well, may be pointed out in this manner: A dozen eggs weigh about a pound; postage on a dozen eggs put up in a carton to pre-

HOW THE PARCEL POST WAGONS LINE UP FOR PACKAGES AT EUROPEAN POSTOFFICES.

[Concluded on page 18.]

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

HAPPY NEW YEAR.

Seldom, if ever, has the grain-belt farmer been so confronted by a year of prosperity already experienced and so cheered by a year of prosperity already anticipated. The combination gives to our "Happy New Year" a joyous, jovial ring far beyond even its usual optimism and good cheer. There is not one among us who cannot join in felicitations over the happiness and prosperity of the past or the outlook for the future.

The closing year will go down in agricultural history as one of bumper crops and unalloyed farm prosperity. There have been years when certain crops have produced larger aggregate returns, but never a year when crop after crop came in with such bumper reports, until the aggregate of the farms' production reached a mark heretofore untouched. Nor have bumper crops this time meant reduced prices, for the farmer is reaping his financial reward in a manner that should inspire him to go into the fields next spring determined to put every ounce of energy and every particle of brains into a co-operation with Nature that will yield good returns in the harvest time, whether the growing season be one of climatic excellence or not. It is not all Nature's part, this record of bumper crops. It is an equal partnership between man and Nature, for by the rotation of crops and the proper adjustment of crops to soil conditions, and by a thousand and one other manifestations of agricultural knowledge, man has played his share in making thousands of bushels supplant hundreds, and millions come in turn to supplant thousands. And the great glory of it is that what has been done once may be done again, and on and on into the future, so that the farmer may look down the vista of years and see a succession of fat years, interlarded by only a few lean ones, so long as he farms with both brain and brawn and meets Nature half way in the partnership.

These are some of the reasons why our "Happy New Year" at this particular time takes on a new and joyous significance. The future is so roseate with promise, a promise that is based on the actualities of experience and knowledge. In his annual report Secretary Wilson points out that the aggregate of farm crops has increased in sixteen years from four billion dollars to nine and one-half billion dollars. In other words, sixteen years have found the farmer producing two bushels where he produced but one, cutting two blades where he cut but one and finishing two animals where he finished but one. Who is there that will say the record of the past sixteen years may not be duplicated in the next sixteen and that on New Year's day, 1929, we may not felicitate ourselves upon a prosperity double that of the present, magnificent though it is even now?

And so, with riches abounding in material things, and with hearts overflowing for the blessings of the past and the promises of the future, we join hands today as never before in wishing one another "Happy New Year." There is a lilt to the voice, a sparkle to the eyes, a flush to the cheek, a general exuberance which were never in evidence before. As our material prosperity has increased, so have our material comforts, our capacity for enjoyment, our opportunities to make farm life satisfying and ennobling. Therefore in deepest humility, yet with a conquering spirit, we make our chorus this joyous holiday season ring out with a new fervor that shall inspire the lagging and strengthen the weak, a chorus that is not for one day only, but for the whole 365 through which we must labor with a will to make the new year take its place at the vanguard of the long procession gone by: "Happy New Year."

WINTERING BEEF BREEDING COWS.

One of the difficulties of the live stock producer is the selection of a ration on which beef cattle may be suitably and economically wintered. Formerly the beef-feeding business consisted in shipping cattle from western markets and finishing them on eastern-grown feeds, for it was often possible to buy two year olds under those conditions at a lower price than they could be produced locally. But in consequence of the breaking up of the western ranges these conditions have been radically changed. In the future cattle will be raised only on land that is especially adapted to the business, which is prolific in nutritious grass, is supplied with plenty of water and shade, and is located near to central markets.

There is much land of this character throughout the middle West that should be utilized for the production of beef. All that is necessary is plenty of summer pasturage and enough land whereon to produce the necessary winter feed. At present hay is so expensive that many farmers would sell it rather than to feed it to cattle were it not that they desired to maintain the fertility of their soils. Practical tests, however, indicate that silage instead of hay may be profitably fed to furnish winter nutrition for the beefs. It is adapted to a wider range of soil condition than any other crop except grass, it produces a large amount of food nutrients per acre, it is palatable, easily grown, succulent, harvested with comparative ease, and can be stored at less expense for buildings than any other forage crop. Furthermore none of the corn is wasted where it is fed out in the form of ensilage.

Particularly is silage valuable in the beef menu where cottonseed meal is also fed, as the excess of protein in the latter nutrient balances this deficiency of the former. Furthermore the laxative character of the silage is materially reduced by the addition of cottonseed meal to the ration. At the Pennsylvania Experiment Station, accordng to the data set forth in a recent bulletin, ten pure-bred Shorthorn and as many Aberdeen Angus cows were wintered in two separate lots with access to oper-end sheds as well as feed yards, water and salt. The Short-horns were thin in flesh, while the Angus were in a much higher stage of nutrition at the beginning of the experiment. Twice daily the cows were supplied with as much corn silage as they would clean up in one hour, while one pound of cottonseed meal was also fed once daily to each animal.

The animals were fed for 140 days and the results showed that to begin with the Short-horns did not eat as much silage as did the Angus, as they were not accustomed to this roughage However, after the first six weeks each animal was receiving sixty pounds of silage per day. With less than 1 per cent of waste the Short-horns ate this amount of silage throughout the remainder of the winter. However, toward the end of the feeding period the Angus females refused to consume the full allowance of silage, even despite the fact that some of them were suckling calves. This shows that when thin cattle are fed largely on roughage they will make rapid gains, but as they improve in condition their consumption of feed decreases, finally reaching a point where the appetite for roughage is only sufficient for maintenance. At the close of the test the cows were turned out on pasture without grain where they still continued to gain in weight.

During this feeding period, one lot of ten produced 88,405 pounds of manure where 9,851 pounds of straw were used as bedding. During the test the total gain made by the twenty head amounted to 3,290.84 pounds an average daily gain of 1.17 pounds. The average daily gain per cow comprised 57.64 pounds of corn silage and one pound of cottonseed meal, the average cost of the feed per cow amounting to $16.13 for the entire period. Each cow voided $6.63 worth of manure, while the net cost of wintering each animal amounted to $8.22. In this test, corn silage was valued at $3.50 a ton, which is equivalent to seventy cents per bushel for corn. It required four tons of silage to winter each cow, which is equivalent to one-third of an acre of land that will yield sixty bushels of corn to the acre.

These feeding tests were carried out under the most adverse weather conditions. However, figuring that the animals could be maintained on pasture during the rest of the year the total cost of maintenance per cow for the twelve months would amount to $15.22 where pasture is valued at $1 per head per month, or at $22.22 where pasturage was worth $2. In addition some of the cows produced calves during the course of the experiment, which at prevailing beef prices would allow a profit of from $10 to $15 per calf on the cost of keeping the cow. Such a method of farming as this will make for a uniform distribution of labor throughout the year, a maximum profit in the production of crops, the maintenance of soil fertility at a minimum expense, and the utilization of all rough or broken land capable of producing grass. It will also solve the problem of securing feeder cattle at less cost than they can be purchased for on the central markets of the country, it will eliminate loss in transit, and will insure the fattening of beef cattle of better condition, breeding, and quality, for the trade.

THE SHREDDING OF CORN FODDER.

The following communication from one of our Indiana subscribers, Will Meyer, conveys some interesting information on the problem of shredding corn:

I have read several articles in your paper recently in regard to handling a corn crop and will say that I think the only way to handle fodder is to shred it.

I will admit that shredding requires a cash outlay, while husking by hand can be done by the owner of the crop himself if he sees fit to do so. Corn and fodder also have to be well cured and dried out to shred and more help is required. However, you will lose time and money if you do not have help enough and it is on this point that I want to give you my experience as to how my neighbor and I overcame this difficulty.

We had about thirty acres of corn and we knew our chances of hiring a shredder would be slim. Also that we would have to hire most of our help, as there were not enough near us who cared to shred, so we decided to run an outfit of our own. My neighbor had an eight-horse gasoline engine and I bought a two-roll shredder and we started to work. We set our machinery, backed our corn wagon under the elevator and then each of us took our wagon with rack on and started for the cornfield. Each one loaded his own wagon, the other one handing up the corn. When both wagons were loaded we drove up to the shredder and each one would unload his own wagon, the other feeding the shredder. When our corn wagon became full we unloaded the grain in the crib and went back to work.

In this way we cribbed from sixty to seventy-five bushels in a day and finished our thirty acres in about fourteen days. By this method two of us handled our entire corn crops and we like the plan very well indeed.

It must be conceded that an enormous task would have been involved in husking out this thirty-acre field of shocked fodder. We venture to say that instead of the work being done in fourteen days as was the case in this instance it would require all the spare time that could be made available during the entire winter season and furthermore the shredded fodder either in the stack or crow will keep in much better condition than if it were in the shock in the field. Where a plan like that suggested by Mr. Meyer is carried out it solves the help problem in an ideal way so that the corn is quickly put in the crib and the fodder stored in such condition as to give it the highest possible feeding value.

PRINCIPLES IN ROAD ADMINISTRATION.

There never has been in the past so much discontent over the discomfort of traveling over mud roads as there is at the present time. While it is well known that the making of hard roads in communities where there is no hard material must involve an enormous expense, yet more and more taxpayers are expressing a willingness to be taxed for permanent roads. This was plainly indicated last week at a road conference held in Des Moines, Iowa, where 200 delegates composed of typical representatives of both town and country voted unanimously in favor of a one-mill tax to create a state-aid fund. In the past the best that Iowa has been able to do along this line has been to support a non-salaried highway commission with but little power and with practically no money to work with.

This same conference endorsed almost unanimously the establishment of a permanent highway commission with ample power. In addition a recommendation was made to the legislature to submit the question of bonding the state for good roads purposes to the people at the next general election.

We appreciate the fact that this program is not endorsed by all the people and it is just possible that at the present time it may not meet with the endorsement of even a majority, but the rapidly changing feeling indicates that the time will soon come when all states of the corn belt will undertake the construction of permanent roads. This being the case the question of administration is the important one to decide. In this matter there are established precedents which may be safely followed and these precedents in every case tend in a greater or less degree to centralization. In other words, wherever good roads have been economically built in this country they have been built under the general supervision of the state under a plan of co-ordination with the county and with the township. No plan will ever work out practically in the corn belt that does not in a large way leave with the locality the authority to say when they are willing to bear the expense of good roads. When it is decided to incur the expense of building permanent roads the township, county and state will as units find themselves compelled through the operation of a sound business principle to adopt plans and specifications prepared by the best available talent, whether this be furnished by the nation or by the state. Furthermore expert supervision will be acceded to as a part of the same.

The most urgent need at the present time in all states of the corn belt is the classification of highways in order that the question for all time may be settled as to what constitutes main roads and which are the secondary highways. This recommendation was made to the legislature at the Iowa road conference referred to. When this plan is once carried out we will then know definitely the order in which our roads should be permanently improved. It is a well-known fact that 90 per cent of the rural traffic is carried on over 10 per cent of the highways and certainly the first move should be to improve this 10 per cent. In the meantime we are strongly in favor of keeping the secondary roads in the best possible condition by the construction of suitable culverts wherever they are needed and by the sensible and compulsory us of the drag. There will always be large and important township and county duties so that no man need have fear that the adoption of permanent road administration will in any way interfere with the principle of local government.

COMPULSORY EXERCISE FOR SOWS.

Frequently as has this subject been discussed in these columns it has not been overemphasized. We claim that exercise constitutes more than one-half the battle if strong litters are expected, and it should be remembered that the average sow will not of her own accord spend enough energy to answer the purpose.

We believe in scattering feed for

sows and there is no better place to do this than right out on the pastures or in the bare feed lots. Shelled corn or small grain of any kind may be used for this purpose. It is a mistake to feed sows a heavy ration in the morning and allow them to go right back to their sleeping quarters. If they are fed in troughs, they should be immediately turned out so that they have no access whatever to strawy quarters. Unless the weather is too cold they are far better off out on bare ground where the comforts of life are so few that they will spend their time romping around and perchance in squealing. Anything to keep them going is better than to let them loaf in the yards.

Under this plan many a man has been able year after year to raise strong litters even though his sows have been fed on corn alone, while it is never difficult to find instances where balanced rations have been fed only to find very poor results follow in the production of weak litters.

Compulsory exercise by brood sows should be the watchword of every swine breeder during the weeks that follow between this period and farrowing time.

KEEP THE CARS MOVING.

That the railroads are meeting the Interstate Commerce Commission half way in the effort to keep freight cars busy and so relieve the car shortage would seem to be evidenced by this notice recently sent by one of the big lines traversing the grain belt to every one of its agents:

Keep the cars moving. Why? Look at the crop reports. Even under normal conditions there would probably be a car shortage this fall, but crops everywhere are big. Conditions are abnormal and business is going to boom. It is not only going to boom, but it is booming. Here is a matter in which you can co-operate with the railroads to your own advantage. It is to your interest as well as to the railroads' to do all possible to prevent a car shortage.

Do not order any more cars than absolutely needed. Give the railroad all the advance notice possible that you are going to need cars. Do not order a large car if you can get along with a small one. Try to adapt your load to the car available. Large cars are harder to obtain than small ones. Load cars as soon as possible after they have been placed. Load cars to their full capacity. The more freight you load into a car the fewer cars will be required to move all freight. Unload cars promptly, regardless of free time allowed. Somebody needs the empty cars. Cars are built for transportation, not for storage.

Once it is generally understood that every car must be kept in constant, active use (not permitting great numbers of them to be laid over at the termini of the various railroads nor delayed in transit nor held out of commission by shippers simply by the payment of demurrage charges) the problem which has assumed such serious aspects this fall would be simplified. By impressing upon their agents the necessity of keeping cars moving, and of securing the co-operation of the shippers to the end that the greatest possible use be made of each car, much can be done to avert the conditions of this fall, which were so serious that great financial injury was done to farmers who could not move their bumper crops at the time when quick marketing meant larger profits.

PREVENTING FARM ACCIDENTS.

Ninety-four Wisconsin farmers were seriously injured on corn shredders, corn huskers and feed cutters during 1911. Four laborers were killed outright, six victims lost arms, while twenty-one men suffered the loss of one or both hands. In the majority of instances these injuries and fatalities could have been prevented had the workmen practiced care and precaution to protect themselves a gainst accident. Many of the accidents resulted from carelessness and lack of appreciation on the part of the workmen that they were operating dangerous machines which were to be handled with a maximum of care and caution.

There are, of course, many don'ts that should be borne in mind when operating a corn shredder, corn husker, or feed cutter. Invariably a stick should be used to unclog the rolls and never the hands for this purpose. It would be better yet if the machine was stopped when such a difficulty is met. During the last year eight men were severely injured in consequence of trying to stop the rolls with their hands. During 1911 fifteen arms and hands were sacrificed on Wisconsin farms because the machines were not provided with self-feeds. Every husker should be equipped with a self-feed —either of the apron or gravity variety—so that the feeder will not have to stand within reach of the rolls.

Every husker and shredder on which it is possible for the feeder to get caught in the rolls should be provided with a safety lever so attached that the feeder's body will strike it in case his hands are caught in the rolls. In at least eight recent cases of injuries efficient safety levers would have prevented the accidents. It is always extremely dangerous for the feeder to cut bands while standing within reach of the snapping rolls, particularly where the knife is tied to the wrist. In addition the footboard of the machine should always be kept free from ice and snow, as oftentimes the feeder may slip on icy footboards and sustain serious injury.

Every gear on the various machines can be so covered as to make it impossible for fingers to get caught. A machine should never be purchased that is equipped with uncovered gears. Every sprocket should be covered.

LOANING SCHOOL FUNDS.

The proposition to investigate land credit systems abroad has set men to studying and thinking. The three leading political parties have declared in favor of doing everything possible to make it easier for farmers to obtain loans, at lower interest rates and for longer periods. A bill providing for a congressional investigation of the foreign systems will be introduced in congress, with every prospect of passing. The subject was thrashed over at the recent conference of governors, Ambassador Herrick telling of the success of these credit organizations in France and acting, in large measure, as the spokesman for President Taft, who is known to be heartily in favor of trying out the experiment in this country.

Whatever ultimately comes of the entire matter the discussion will have served a useful purpose if it opens the eyes of the moneyed men of the cities to the fact that a loan made to a farmer is not only one of the surest and safest investments possible, but is like bread cast upon the waters in that it increases farm prosperity, which, in turn, augments city prosperity and enlarges the moneyed man's working capital. It has been conclusively shown by Mr. Yoakum, of the Frisco railroad, that the farmer is obliged to pay higher interest rate for money with which to carry on and increase his business than does the manufacturer, the railroad man or any other business man. That this is an injustice, considering the absolute soundness of the security which the farmer gives for his loans, is generally recognized. Now comes a Kansan, a member of the faculty of the state agricultural college, with the proposition to loan the state school fund to farmers, at 5 per cent or even less, on long time, ranging from eight to twelve years and even longer. Inasmuch as the Kansas state school fund approximates nine million dollars and the interest paid by the farm borrowers would be but a trifle less than the interest paid on the school and municipal bonds in which the fund is now invested the proposition deserves to be considered. Its sponsor outlines it in this manner:

The present short-time loan system, with the small amount lent on a farm, prevents thousands of young men from buying farms. Three and five-year loans can never be safe for the farmer who wishes to buy a farm with the profits of his farm's production. The chances are too great against success. There may be "lean" years, sickness of family or live stock and low prices for produce.

With state money there would be no occasion for short loans. A farmer then might have eight to twelve years for repayment of the loan and interest, with the privilege of making two or more payments at any regular payment time. He should also have the privilege of carrying one payment over to the next payment time when the reasons for so doing seem good to the state land commissioner.

It would make it easy for the energetic renter to buy a farm and pay for it; for the young man just leaving home to start a home of his own to buy a small farm and make the farm pay for itself. In ten years our army of tenant farmers in Kansas has increased 6,000. There was little need of farm credit when land was free or to be had at small cost. Today there is no unsettled frontier. There is no more "West."

I would not recommend that any of this money be lent for any other purpose than for paying for land, and would not lend a dollar to a man who already owns 160 acres. Every applicant should produce what Germany and Denmark value so highly, good personal character credit. Oregon has been lending its school fund in this way for forty years. In Denmark eighty-nine out of every 100 farmers own their farms. That is what I want for Kansas.

It is doubtful if any better use could be put to idle money than to loan it, on absolutely safe land security, in such a manner that the prosperity of the state and society as a whole shall be increased. No one will feel the effects of this augmented prosperity any sooner than the moneyed man and the ability to find absolutely safe channels for his capital will rid him of the principal worry which the possession of money entails. Whether it is best, or advisable, to use the school funds for such a purpose we cannot say, but we do maintain that the general proposition of making the question of farm loans the subject for exhaustive study, with the idea in mind of making it easier for the farmer to obtain money at a lower interest rate and for a longer period, is one of the most important before the country today and one which should be studied from every possible angle. Any suggestion which will in any manner shed light on the subject should be welcomed.

OUR RED LETTER SUBSCRIPTION OFFER

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WOMAN'S WORLD
KANSAS CITY WEEKLY STAR
PEOPLE'S POPULAR MONTHLY

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The publisher of The Iowa Homestead has elaborate plans which will make The Homestead better, larger, brighter and more practical in 1913 than ever before. Every department will be continued throughout the year and will be in charge of practical experts who practice what they preach and who allow no unsound doctrine to creep into their columns. The Homestead will continue under the management of the same editor-in-chief, who owns and operates his own farms and gives to subscribers the benefits of his own personal and successful farm experience.

No more liberal or attractive subscription offer was ever made by any publisher. The introduction of our Red Letter Offer created a sensation among farm readers because it presented the maximum of farm and home reading at a minimum of cost. The opportunity is so splendid that it should be taken advantage of at once. Five great papers will be sent one entire year for only $1.25, being a saving of a whole dollar on the regular subscription price. Make your remittance today, so as to insure you getting all the big winter numbers of all these five splendid papers. Do not delay, but remit $1.25 at once to

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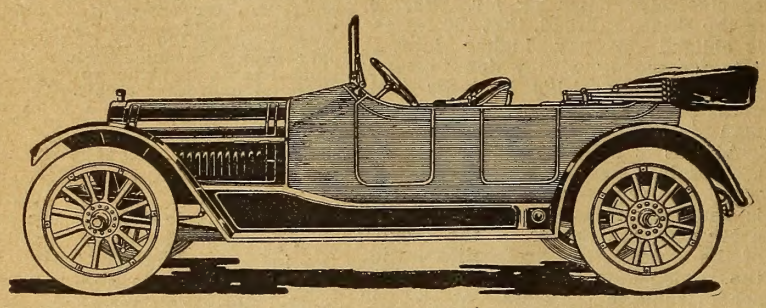
Mitchell

YOU know what the Mitchell name stands for in vehicle building; seventy-eight years of the highest standards in materials and workmanship.



The 1913 Mitchell Automobile

is built according to those same standards. We offer it to you as the best car you can possibly buy at anywhere near its price. You live where ever-ready automobile service means everything to you. The Mitchell has been designed and built with the one idea of giving better service than any other moderate priced car.

Ask the nearest dealer to show you the 1913 Mitchell. Go into its points; the scientific manner in which weight and wearing parts have been distributed. The more you know of its design and construction, the more you will understand its superiority, Pay special attention to the long-stroke T-head motor, there has never been a motor better proportioned for power and efficiency. Be sure and note carefully the left drive and center control, the electric starter and electric lighting system. These new Mitchell features will be of the greatest possible convenience to you. You won't find such a combination of improvements in any other car you may be considering.

All Mitchell 1913 cars have left drive and center control; Bosch ignition; Rayfield carburetor; Firestone demountable rims; rain-vision windshield; Jones speedometer; silk mohair top with dust cover; Turkish upholstered cushions; Timken front axle bearings; gauges on the dash to show air pressure and oil pressure; gauge in gasoline tank showing amount of gasoline it contains; and a portable electric lamp which also illuminates the instruments on the dash.

All with T-head motor, electric self-starter, electric lighting system, and 36-inch wheels

	Motor	Bore and Stroke	Wheel Base	Price F.O.B. Racine
7 passenger Six	60 H. P.	4¼ x7 in.	144 in.	$2,500
2 or 5 passenger Six	50 H. P.	4 x6 in.	132 in.	1,850
2 or 5 passenger Four	40 H. P.	4¼ x7 in.	120 in.	1,500

DEALERS EVERYWHERE.

Mitchell-Lewis Motor Co.
Racine, Wisconsin

Sears Automobile Co., 923 Locust St., Des Moines, Iowa.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Hogs will get lousy the year 'round, and while it is impracticable to dip them at this particular season, one can keep a close watch for these pests, and when they appear, thoroughly spray all the animals and their sleeping quarters with a reliable spraying solution.

A good brood mare on the farm pays her way with the work she does, leaving her colt as a clear profit.

As the old year draws to a close, and we begin to lay plans for making the new year brighter and better, all of us can save ourselves making a lot of miscellaneous resolutions by adopting this single, simple resolution: I will do my very best in every way during the season of 1913.

Save all the wood ashes for fertil izing grape vines.

Provide all water troughs with plugs for letting out all surplus water that the stock leave in them after drinking, as it would freeze if left in the troughs, causing a big job of disagreeable ice hacking the next day before the animals can drink; also, giving the water a chill by coming in contact with the ice.

Hang right onto the dual-purpose cow till you know you have learned well how to specialize, either in dairy or beef production.

The housewife who uses butter color to deceive a buyer is little better than the oleomargarine people who sell their product as pure, unadulterated butter.

Cheap or poorly repaired harness often prove very dear articles to keep around the farm, as they are a constant menace to the life and limb of everyone who rides behind them.

If you are foolish enough to neglect selecting seed corn from the field before the freeze, that which is in the center of the shock fodder will not yet be frozen sufficiently to damage the germinating qualities.

As the season for using the automobile is practically ended, the wheels should be jacked up and at least one-half of the air let out of the tires. Where the tires are left inflated and bear up the weight of the machine, the tires will be practically ruined by spring. It will be even better if the tires are entirely removed from the rims, carefully cleaned, wrapped in thick paper and laid away till spring, as light has a deteriorating effect on rubber.

Sour cream makes more butter than sweet cream, but the flavor will not be quite as good.

No breed of cattle brings such profits as—the one that is well fed and properly cared for.

It is now high time for the breeder of pure-bred horses to get busy and buy his stallions and mares for next season. While it is true that the choice animals in all stables command what appears to be extremely high prices, yet, it is also a fact that these are the ones which usually are sold first. Furthermore, they represent greater value according to the amount paid for them, than the cheaper and lower grades that one must take if he waits a little later to make his selection of breeding stock.

Comfortable quarters for the dairy cows are as important as feed from now on.

Where the corn stubble was sown to wheat, the fodder should not be husked out and left lying around on the ground. As the corn is husked the fodder ought to be tied in armful bundles, with binding twine or baling wire, and hauled from the field at once, or else set back up after husking it out. If it is left to lie on the wheat, the ground where it is lying will not freeze now; the wheat under it will turn yellow and puny; then, as soon as the fodder is removed, later on, the soil will freeze, and the tender wheat plants, deprived of their protection, will be killed by the sudden change and exposure.

The "back to the farm" cry is no longer a joke, it is a wail on the part of those who have seen the error of their ways and would be glad to get back and find that the farm has gone away ahead of them.

No strainer ever yet has been devised that will take all the filth from milk, once it gets well worked in.

It seems rather pleasant to have a few days of fine weather after the rush season is over. It makes it possible to get things in shape to meet King Winter with a smile when he comes and to enjoy the good things that even winter season brings.

There are fewer shocks of corn standing in the fields this winter in this vicinity than there used to be. The silos and the shredders are the cause of part of this, and some prefer stacking their fodder to digging the shocks out of the snow. There are enough shocks standing in the fields though to remind us of the good old

THIS TRADE MARK T&M ON A GASOLINE ENGINE

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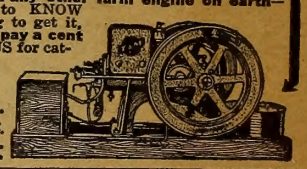
Exceptional Economy in Operation + Simplicity and Safety of Construction—Extra Strength, without Bulk—Smoothness of Running—Full Rated Power, and More—Dependability and Long Life.

T.&M. Farm Engines

are **time-tried—17 years of good-engine building,** and a T. & M. **iron-clad guarantee** back of **each engine.** An engine that's **built** right—**sold** right—and **guaranteed to the limit.** If you want **more real dollar-for-dollar engine value** than you can get with **any other farm engine on earth**—and want to KNOW you're going to get it, **before you pay a cent**—WRITE US for catalogue and prices.



Termaat & Monahan Co.
12 S. River St.
Oshkosh, Wis.

Hardy's Hog House

"It's Portable," made of the best Corrugated Galvanized Steel with an all-steel frame. Guaranteed.

Protects the Sows and Saves the Pigs!

A warm, dry, sanitary, ventilated house. Made in three sizes. Pays for itself every season. Will last for years.

Write for our Price!

Hardy Manufacturing Co., 305 Union St., Pendleton, Ind.

Clarke's Hog House

Prevents disease, destroys lice. It's indestructible—will last a life time. It's scientifically constructed to **Save All the Pigs.** Made of all galvanized, rust-proof, extra heavy metal with a patented door. Can't be broken or get out of order. You can roll Clarke's Hog House anywhere and open the top of it to let the sunshine in. **Write for prices.**

Ben Hur Mfg. Co., 76 Main St., Crawfordsville, Ind.

TRAVELING MAIL BOX

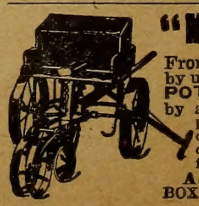
For those who have from 300 ft. to 1½ miles to go for their mail. Easily placed on telephone poles or 2 x 4's fastened to fence posts. The

OAKWOOD MAIL CARRIER

Made entirely of metal. Ball-bearing pulleys. Sold on thirty days' trial. Write for book "Getting the Mail."

Oakwood Mfg. Co. 65 Stanton Ave. Springfield, Ohio.

"More Potatoes"



From ground planted secured by use of The **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for **CATALOG,** price, etc.

A. J. PLATT, MFR.
BOX H STERLING, ILL.

days when we first began to learn the value of corn fodder.

One of the odd jobs on this farm during the past few days has been to find as many old bolts as possible and fit them with nuts and put them away where they can be be found in a hurry when wanted. A set of stock and dies has helped make the work interesting and has been a great help in adding to the stock of bolts.

The present price of gasoline is making the pumping of water with gasoline power a rather expensive luxury. This must make the windmill manufacturer smile because he knows that the power that makes his wheels go round is free and that it will bring him customers.

It is a fortunate strike when the road drag hits the road just before a freeze-up. Somewhat rough, frozen roads with traffic is a slow and unpleasant process, to say the least.

Now that the "Christmas program' is over, schools may settle down to real work again. It seems to me that preparation for Christmas takes more time each year, and that it now breaks too much into school work.

The healthy boy wants a gun. I should consider something the matter with a boy of mine should he pass the age of fifteen without putting up a plea for a gun, and when the boy reaches the "safe age" I should consider there to be something the matter with his dad if he didn't get him one.

A buzz saw should never run except inside a shield. Hundreds of accidents happen each winter, when the woodpile is being sawed, because the saw is not covered with a shield.

Dairy products are not as high this winter as they were last. Of course the cost of feeding is less, but labor cost is just the same. Had I to buy in the city I might think the price still too high, but out here on the farm the reduction hits rather hard.

Burying potatoes and other products of the garden patch in a pit is sometimes a risky piece of business. A warm, wet spell of weather is hard on the contents of a pit, while severe cold frequently is a test in opposite conditions. The man who loses all his vegetables in a pit is certainly to be pitied.

The distance one lives from a shipping point has considerable to do with the cost of concrete work, particularly where the sand as well as the cement must be shipped in and then hauled out to the farm. Farmers who live over sixty miles from a shipping point find the cost of hauling so much heavy material costly business.

A great deal is being said in favor of the concrete water tank, but I find the galvanized steel tank very satisfactory. It is light, therefore easily moved from place to place, as wanted, and tanks of good material have proven very durable on my farm.

It is quite a problem to keep the pipe leading up to an elevated tank from freezing. A friend writes that the best protection he has ever found is newspapers. He uses about 200 thicknesses, wrapped around the pipe, and finds it the best of anything he ever has tried. Perhaps this hint will be just what some folks are looking for.

The voice of the shoat is a fair barometer of his health and thrift or lack of thrift. There is a tone in a shoat's voice that tells a plain story. When a complaining tone it means that shoat is not doing well, but the low, satisfied grunt tells of steady, daily gains. The tone of the voice, whether of the human or the hog, gives insight into its owner's state of feeling.

I came from New England stock and must confess to having inherited to some extent the old New England horror of debt. Back there, in grandfather's time, it was almost a crime to buy anything and not be able to pay for it, cash down. A neighbor known to be in debt was looked upon as being not exactly a good example to be set before the young. Opinions have changed back there since then, and there, as it is here, the amount of property one has around him is no sure indication of that man's real wealth.

There are many young calves that suffer the tortures of thirst because they are unable to speak up and say that they want a drink of water and are unfortunate enough to have an owner who thinks that milk will supply them with all the thirst quenching ration they need.

January 1st is the time to take inventory of all the stock on the farm that the assessor will ask for when he comes around. Every year there are thousands of farmers who sign a sworn statement to the assessor and fined that they made one or more mistakes after he is gone.

SOME SEASONABLE FLOWER HINTS.

To the Editor of The Homestead:

It is the proper time now, when the ground becomes frozen, to protect your tea roses. Do not cover them up with any kind of mulch, as that causes the wood to decay and is sure death, root and branch. The best method is to turn a box over them. Then you can cover your box with your mulch, though they will come through most winters without. The box should have a tight bottom so water will not drip on the vines, yet the sides should have a small crack to admit air. It is the winter sun that damages tea roses more than winter cold. Dry soil is also detrimental, but water and ice around the roots are worse.

Hybrid Perpetual roses need no protection, yet a light mulch spread evenly is very beneficial, but don't pile it up against the bushes. Six inches of loose mulch all over the ground is all right, but three or four wheelbarrows dumped up against the bushes is a severe test of their vitality. Like some sick people, they may pull through, but it's in spite of the treatment rather than because of it.

See that your tulip beds are moist during the winter and you will have flowers in the spring. All this class of bulbs root in the winter whenever the ground is not frozen, provided there is plenty of moisture. Failure of bulb beds to bloom satisfactorily can usually be ascribed to this course.

When your fancy chrysanthemums are done blooming put the pots down in the cellar or anywhere in the cool where it does not freeze much, and keep them a little on the dry side until the new shoots begin to show up well, then bring to the light and when the suckers are some four inches high shake all the soil from the roots and carefully divide into single plants. These should be set out in pots or boxes and grown on until time to transplant into the open ground. Never plant out the whole clump, as the flowers will come small, usually semi-double and lose much of their purity of color and form.

Did you ever try the fancy-leaved begonias, such as Marguerite, Thurstoni or Argentea, as bedding plants in a shady spot? They are fine and so easily grown. Their root action is strong, their growth luxuriant and their colors are deeper and richer than any other foliage plant. Care should be given to have them protected from sweeping winds or any but an east sun.

The old-fashioned annuals are becoming very popular again, and some of them are well worthy a place in any garden. One of the best of these is the portulacca or rosemoss. Sow the double seed and give them a little care the first year and you will have a permanent bed, for they self-sow. You will have every shade of color and the flowers will range from single to as double as the best roses, nor will the doubleness disappear, at least not for several years.

If you want a really satisfactory tuberose, buy the Armstrong Everblooming, or Mexican variety. They have the same fragrance as the Pearl, but are single and doubleness, in our opinion, does not add anything to a tuberose except stiffness. They bloom much more freely and a good proportion of them will bloom every year.

L. H. Cobb.

I Guarantee to You

that this FOSSTON Automatic Combination Grain Cleaner and Corn Grader will grade your corn *better, cleaner* and *faster* than you can do it in any other way. This machine will absolutely clean your grain—grade your corn—make bigger crops—make you more money. Hundreds of users join me in saying that the FOSSTON is far and away the greatest cleaner and grader in the world—built for perfect work and long service, with heavier crops and larger profits sure to follow its use.

S. N. SORENSEN, President

FOSSTON

Automatic Combination CLEANER - GRADER

has a patented wheat gang that is positively the finest thing for cleaning wheat ever invented. It has zinc sieves; grain is *perfectly* cleaned and separated going through the mill *once*. This gang will not let a single wild or tame oat kernel slip through with the wheat, barley or rye in *one time through*. Ordinary fanning mills couldn't do the job so well running the grain through several times.

Free Trial 30 Days! Let us ship you a FOSSTON *at our expense*; use it 30 days *at our risk*; if you don't say then it's the great machine Mr. Sorensen claims it is, send it back—*also at our expense*. Learn more about the FOSSTON before you buy. Ask your dealer to show it to you. Write today telling us to ship one on free trial, or asking for booklet giving complete descriptions of every style.

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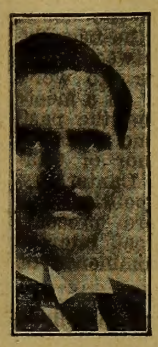
STOP! READ THIS

ACT NOW! HERE'S AN "AD" YOU NEVER READ BEFORE

IT'S A STORY THAT WILL INTEREST EVERY MAN WHO FARMS

Alfalfa Can Now Be Grown Anywhere



William Galloway

ALFALFA IS THE QUEEN OF FORAGE CROPS. One acre covered with a thrifty growth of alfalfa is equal in protein feeding value to fifteen acres of timothy. Thousands of American farmers, following Germany's lead, and using the German pure culture, "NITRAGIN," to inoculate their seed before planting, have secured wonderful results. They have heavy, thrifty stands. But there are still millions of American and Canadian farmers who haven't heard of "NITRAGIN"—who are anxious to grow this wonder-crop, alfalfa.

LISTEN! THOSE OF YOU WHO WANT TO GROW ALFALFA AND DON'T SEEM TO BE ABLE TO MASTER THE TRICK—

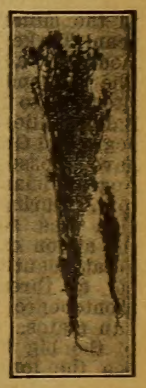
LET ME TELL YOU THE STORY OF HOW IT'S DONE. Last spring I hired a dairyman for my farm here near Waterloo. He came from a big dairy farm near Milwaukee, Wis. Among other things, I explained to him how I had tried to grow alfalfa for my stock, but had never been able to get a stand. The dairyman asked me why I hadn't used "NITRAGIN" to inoculate my alfalfa seeds. He said "NITRAGIN" was made by the German-American "Nitragin" Co., and that it had been on the American market for some three or four years and in constant use by the German and other European farmers for over fifteen years. He told me that his former employer, Dr. G. A. Kletszch, of Thiensville, near Milwaukee, had tried for three years to get a "catch" of alfalfa, and had failed every time until he got hold of "NITRAGIN"; that when Dr. Kletszch inoculated his seeds according to directions that came with the "NITRAGIN" he got a "catch"—and had the most wonderful field of alfalfa he had ever seen.

I did two things, then, and did 'em quick. I ordered "NITRAGIN" for my alfalfa seed, and I started one of the most searching and thorough investigations, into the merits of this product, "NITRAGIN," that I could direct. The results of that investigation amazed me. I found that the Germans had known all about the secrets of alfalfa, clover, and all the other legumes; that they had discovered, more than twenty-five years ago, WHY the leguminous plants added nitrogen to the soil—more than they took away in their growth; that they had opened the nodules or little wart-like bunches, on the roots of these legumes, taken out the bacteria with which the nodules were filled, and were growing, in big laboratories, highly bred strains of these legume-bacteria for each variety of leguminous plant. These bacteria they put up like the manufacturers of yeast put up their product (yeast is a bacteria) and then placed them, in granular form, on the market.

German farmers never think of sowing alfalfa, clover, or any other legume, without inoculating the seeds with "NITRAGIN," just before planting. The fact that a legume has already been grown on a field makes no difference to the experienced grower. He knows the bacteria deteriorate in the changing soil, and he wisely buys fresh, strong, laboratory-grown bacteria, knowing he will get more protein in his crops by doing so.

But to come back to my story. Not only have I now succeeded in getting a very fine stand of alfalfa for my dairy cattle, but I found that all the leading governments of the world, including, of course, those of the United States and Canada, indorsed and recommended the principle of pure-culture inoculation. The editors of all the leading farm papers also indorse it—they even URGE the practice upon their readers. The agricultural scientists and all the more intelligent farmers recommend and urge this form of inoculation.

Well, the outcome of my investigation was the making and signing of a contract with the German-American "Nitragin" Company, through which the Galloway Brothers-Bowman Company have now become the SOLE DISTRIBUTORS of "NITRAGIN" for the United States and Canada, and all orders for this wonderful product will hereafter be filled by us.



Alfalfa Seed of plant on left treated with "Nitragin." Seed of plant on right not treated.

What is "Nitragin?" "NITRAGIN" consists of the nitrogen-gathering bacteria necessary for inoculating alfalfa, clover, and other legume seeds, just before planting, to insure a "catch" and to enable the plant to procure its nitrogen from the air. "NITRAGIN" IS GUARANTEED—ABSOLUTELY GUARANTEED TO BE AND DO JUST WHAT IS CLAIMED FOR IT.

What "Nitragin" Will Do "NITRAGIN" is used primarily to start the necessary bacterial growth in the roots of the leguminous plants. The bacteria live and multiply into billions of little nitrogen-gathering factories. They supply protein to the growing plants and through the decaying roots and stubble put nitrogen fertilizer into the farmer's soil. IT IS ABSOLUTELY GUARANTEED TO DO THIS. Moreover, it makes bigger crops, improves the soil, increases the value of the real estate, insures a "catch" of alfalfa or clover, re-vitalizes worn-out land, MAKES $2.00 DO THE WORK OF $20.00 TO $30.00.

How Does It Do It? The bacteria of which "NITRAGIN" is composed transform the nitrogen of the air into nitrates, which the plants consume eagerly. The story is too long to tell here. Read the foregoing over again carefully. Then send for our literature, which explains this interesting, scientific phenomenon so you can understand it easily. Get our Book "How to Grow Alfalfa," explained below.

How Do You Use It? Simply moisten your seeds with it, let them get dry enough to handle, then plant the seeds in the usual way. "NITRAGIN" will do just what is claimed for it—**We Guarantee This,** and you all know the Galloway guarantee **Is a Guarantee.**

Read What Others Say We'll be glad to send you, FREE, a bookful of letters, with the names and addresses of farmers in all parts of the country who have used "NITRAGIN" and made alfalfa and clover successes where they had failed without "NITRAGIN." Send for this. Ask for "Positive Proof." Write to any or all of these men and see what they say of "NITRAGIN." We quote from a few here: "I have used 'NITRAGIN' for alfalfa three years with success," A. D. Bittner, Beaver Meadows, Pa. "I used "NITRAGIN" on twelve acres of alfalfa. It made a wonderful growth in spite of the extreme drouth we had this season," H. Klintworth, Taydeedah, Wis. "I used 'NITRAGIN' on alfalfa. It looks, by far, the best of any around here," B. M. Avery, Meshoppen, Pa. "The results from using 'NITRAGIN' were so satisfactory that we propose treating all alfalfa seed we sow next year with "NITRAGIN,'" Coats-Evans Co., Brewster, Wash. "I think every seed grew. The alfalfa has been cut off twice and looks well now." D. H. Bingham, Cortland, N. Y. BUT SEND FOR "POSITIVE PROOF." It is positively convincing.

HOW TO GROW ALFALFA On receipt of request we will send you, FREE, a lot of the most interesting printed matter you ever read in connection with better farming. Send at once for this—ACT NOW.

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CURRENT EVENTS

THE fifty-seventh birthday anniversary of President-elect Wilson was celebrated at his birthplace, Staunton, Va., during the past week, the occasion bringing together a large number of distinguished members of democracy. Governor Wilson was born in the little Presbyterian manse of Staunton, his father being pastor of the local Presbyterian church at the time. The president-elect spent the night prior to his birthday anniversary in the very room where he had been born and the next day received the nation's notables in the humble manse of the little town. The visit of the president-elect to his native state was made picturesque by a series of immense bonfires, started as soon as his train crossed the state line and continued almost uninterruptedly until he reached his native town. Governor Wilson has been suffering from the grip during the past week, but this did not prevent him holding conferences with Wm. J. Bryan, Champ Clark, Oscar Underwood and other notable men in the party. The important matter under discussion at present is the formation of the cabinet. There is good reason to believe that Mr. Bryan can have any position he desires, the posts most appealing to him being secretary of state and secretary of the treasury. Mr. McCombs, who was chairman of Governor Wilson's pre-convention campaign, and later managed his general national campaign, is also slated for a good position, probably postmaster-general. Louis Brandeis, of Massachusetts, is most talked of for attorney-general while Willis Moore, Dr. Wiley and President Waters, of the Kansas State College of Agriculture, seem to be in the lead for the appointment of secretary of agriculture.

PEACE negotiations between Turkey and the Balkan states are dragging along slowly at the meeting of diplomats in London. The allies have announced their terms, which cut down Turkish territory until the sultan has little left of European Turkey except the region immediately adjacent to Constantinople. The surrendered and conquered territory is to be distributed among the Balkan allies, Bulgaria, Servia, Montenegro and Greece, the latter country to have possession of the famous Aegean islands, so prominent in history. During the past week the situation was somewhat complicated by the action of Austria, which mobilized great quantities of troops and assumed a threatening attitude toward Montenegro, the smallest of the Balkan states. The trouble is that each of the big European powers hates to see the long-coveted Turkish empire divided among the second-rate Balkan powers, when each has long wished for the lion's share of the territory itself. Austria is particularly incensed because of the prospect of Servia securing a maritime outlet, which will make its commercial possibilities greater. It is not so much a question of right or wrong as it is of seeing that some rival country does not secure some coveted strip of land along the sea or some city that will make it a greater commercial rival. The conflict began in an effort to drive the Mohammedans out of Christian Europe, but it has developed into a petty rivalry between Christian countries, which might have been expected to set the defeated Moslem a better example.

NOTHING could better or more conclusively show the extent of the friendly relations existing between the United States and Great Britain than the preparations made during the past week to celebrate the centenary of the conclusion of the war of 1812 by an international peace conference, the chief feature of which shall be the unveiling in Westminster Abbey of the bust of George Washington. A member of the executive committee for the peace centenary will visit the United States and Canada shortly to arrange for a joint celebration at which the dominant note sounded will be the friendly relationship existing between the countries which 100 years ago were engaged in bitter warfare. At a meeting held in London during the past week Mr. Asquith, the prime minister, Earl Grey, former governor of Canada, the Archbishop of Canterbury and numerous other high political and ecclesiastical officials were present, thus showing the widespread interest in the affair and the prominence of the men back of it.

THERE is good reason to believe that the special session of congress, for the revision of the tariff, will be called within a week or ten days after the inauguration of President Wilson on March 4th. The prominent democratic members of congress are anxious that the lapse between the two sessions of congress (the present one expires March 4th) shall be as short as possible and that the democrats lose little or no time after they assume the reins of government, in putting through their platform program. It is considered likely, therefore, that congress will convene in special session about the middle of March, instead of a month later, as was thought at first. Governor Wilson has abandoned his plans to postpone the formal features of his inauguration until late in April, because of the inclement weather that usually prevails the first week of March. The postponement necessitated so many changes and such an alteration of plans in Washington that it was abandoned. The democrats will come into full power on March 4th, the accession to be accompanied by the usual picturesque ceremonies, including the inaugural parade and ball. It is expected that because of his southern birth and affiliation, people of the South will be more prominent in the Wilson administration than at any time since the civil war.

PRESIDENT TAFT spent the holidays inspecting the work on the Panama Canal which has progressed so well and so far that the formal opening is planned for the latter part of the present year. President Taft expects to appoint Colonel Goethals, builder of the canal, as governor of the canal zone and his visit was largely for the purpose of discussing civil matters with Colonel Goethals. In the meantime the question of canal toll rates continues to be a vexatious one. Great Britain filed a formal protest against the plan to exclude American coastwise vessels from paying tolls, contending that the treaty between the United States and Great Britain, which declared that no favors should be shown to the vessels of any nation, has been violated. A plan to submit this canal controversy to a court of arbitration has been proposed, but has been declared impracticable by Representative Mann, of Illinois, minority floor leader of the house, and other prominent leaders in congress. The great trouble is that the question is of importance to practically every nation which is a member of or represented in the international court of arbitration at The Hague, inasmuch as their vessels will use the canal, so that it would be impossible to secure a disinterested nation to act as arbitrator between the United States and Great Britain. At the same time Mr. Mann contends that this is a matter for the United States alone to determine and that it has been adjudicated by the only jury to which it should be referred, the American congress. It is not at all probable that the controversy will precipitate ill feeling between the two countries, but at the same time it remains a delicate matter on which the two great powers stand directly at variance.

TAKE IMMIGRANTS TO FARMS.

A national system of immigrant protection and distribution will be built up if representatives of eighteen states attending the second annual meeting of the national conference of immigration, land and labor officials can bring sufficient influence to bear on congress.

Exploitation of the immigrant by employment agencies, lodging houses and transportation companies would be a thing of the past if the bureau were organized, it is argued. Efforts would be made to induce the immigrant not to stop in the city of entry, but to go to the South and West to take up agriculture or work in villages and towns.

States represented at the conference are Illinois, Wisconsin, Michigan, New York, Iowa, Nebraska, Kansas, California, Washington, South Carolina, New Jersey, South Dakota, Louisiana and Tennessee.

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Here is the *only* fence with a joint that allows the line wires to swing up or down with the roll of the land—yet the stay wires are always upright. That's why Apex Fence is the easiest to put up, saves time and labor, and keeps its shape best. Goes over the hilliest ground, and won't bind, buckle or snap.

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Apex fence is made of best Open Hearth Steel—it's springy, tough, elastic. It will turn the strongest bull—and holds hogs and pigs. Its superior galvanizing becomes a part of the wire—doesn't flake, crack or chip off. The tension curves allow for expansion and contraction. Let us tell you other reasons why APEX is a longer lasting, better looking and more economical fence.

Send Your Name! If we have no dealer near you tell us how much fence you need and what heights and we will make you a special proposition. Address

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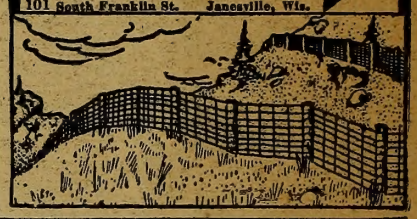

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With this Rock Island No. 1 Corn Planter you can actually change the **number** of grains dropped without **stopping**, without even moving out of the seat! Can plant **extra** kernels where soil is extra rich; plant less kernels where soil is **thin**. Gets a lot **more corn** and **wastes no seed.**

It plants just as you want. And all rows straight, regardless of horses' speed. Instantly changed from **edge** to **flat** drop or back again. Has positive **trouble-proof** clutch. Special flexible connection to front frame. Adjustable seat. Adjustable width. Discs or runners. 30 or 36-inch concave, flat or open wheels. Now used by 10,000 farmers. It is no experiment, but time-tried, proven and guaranteed. Costs no more than commonplace planters, but worth a lot more.

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Prof. Jesse Beery won world-wide fame and was tremendously successful giving exhibitions of his marvelous skill in mastering man-killing stallions, training wild horses to drive without bridle or reins. The whole country was thrilled by his daring deeds.

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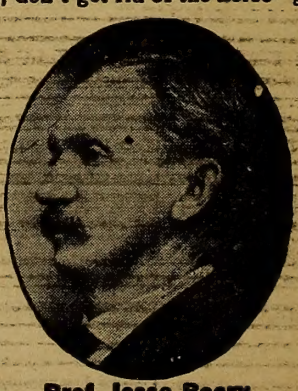

Prof. Jesse Beery

What His Graduates Have Done

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A. L. Dickinson, Friendship, N. Y., writes: "I am working a pair of horses that cleaned out several different men. I got them for $110, gave them a few lessons and have been offered $400 for the pair."

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So it goes. Everywhere, Beery's graduates are making money as trainers and "traders," giving exhibitions. Write and we will tell you about more of them. It's intensely interesting.

Train a Colt in 8 Hours!

You can do it by the Beery System. There is lots of money in breaking colts. The field is unlimited.

Bang! Bang! Bang!
The Beery System Drives Out Fear

Retires from the Arena—Now Teaching Horse-Training by Mail

Prof. Beery has retired from the arena, after a career of unparalleled success, and is devoting his time to teaching his methods to a limited number of selected pupils—both men and women—by correspondence.

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The wonderful success of Prof. Beery's graduates—taught by mail at home during spare time—proves beyond question the value of his instruction. People gladly pay his graduates $15 to $25 a head to have horses tamed, trained, cured of bad habits, and colts broken to harness.

A Penny Postal May Make Your Fortune

No matter who you are or where you live, if you love horses and are ambitious to earn more money in a profession you will be proud of, write for the wonderful Free "Horse-Trainer's Prospectus" today, without fail. Tell me all about your horse.

PROF. JESSE BEERY, Box 54 PLEASANT HILL, OHIO

Make Your Farming Fit Your Farm.

By W. M. Kelly.

THE success of farming depends in a large measure upon the selection of plants and animals that are adapted to the farm. The average farmer does not always find himself with productive land, well situated and most economically equipped for conducting his business, but by making an intelligent study of the adaptability of the farm, as regards climate, soil, location, markets and buildings, he can add to its fertility and evolve a system of farming that will fit his farm.

The farmer cannot change his climatic environment, but he can grow plants adapted to it. There are two ways of doing this; by the breeding and selection of hardy and early maturing plants and by the introduction of new species and varieties adapted by nature to the conditions of new locations. The various state experiment farms and the bureau of plant industry have conducted many experiments with plants from all parts of the world for introduction into our own country. The difficulties of adapting crops to climates increase as we proceed from South to North, for the length of the growing season constantly diminishes, so that farmers in the North must select only varieties that will mature before cold weather comes and checks their growth. The work of experiment stations and individuals in breeding cereals, hardy fruits, vegetables and forage plants has been of great benefit to farmers in the northern states. To secure maximum benefit from these experiments one must make a constant study of plants that are particularly adapted to the length of the growing season on his farm, and by intelligent selection of nearly perfect specimens for seed, intensify the early maturing tendencies until he has plants that will mature and produce a fair crop during the normal growing season.

The selection of breeds of animals that are adapted to the climate, products and location of the farm is almost as important as the selection of suitable crops. Inasmuch as the desirable qualities and characteristics of each breed of animals have been fixed in their native homes, and we are only continuing in well-defined lines, and, we hope, improving on them, it is well for us to understand the most important characteristics as well as the home environment of a breed before we attempt to adapt it to our farm.

For example, among the four great breeds of dairy cattle we find that the Ayrshire is adapted to rough, hilly pastures where they are compelled to subsist largely on roughage. Where a large quantity of milk containing a fair percentage of fat is in demand they can be used to advantage. The Jerseys and Guernseys have been developed in a mild climate and fed generous rations of rich feed for so many years that they have become particularly adapted to farms where they have the best of care, rich rations and comfortable stables. They give rich milk that is excellently adapted for cream and butter products or for supplying a fancy trade that calls for very rich milk. The Holstein cattle have been developed for centuries upon rich lowlands where they have had luxuriant grass and early-cut hay and forage. In this way they have become accustomed to handle large quantities of bulky food and obtain their food without going long distances after it. They are particularly adapted to our low and level farms where similar conditions prevail. They give a large quantity of milk that is rather deficient in fat and for that reason are kept on many farms where whole milk is furnished for the city trade.

Among the various breeds of horses, cattle, sheep and swine we find that each breed, in its original home, was developed for some specific purpose and in the course of time it became so accustomed to its home environment that unless these same conditions were met the animals would reach no higher development than their original ancestry.

A Guernsey breeder, well known to the writer, recently sold a pure-bred Guernsey bull. The buyer who owns a large farm in Ohio said that for seven years he had used pure-bred Holstein bulls, but cannot see that his heifers, except for color and uniformity, are one iota better since he used the pure-bred bulls. He is going to change to the Guernsey breed, trusting that it is more prepotent. This man's attitude is characteristic of thousands of farmers who expect that breeders are to furnish them with highly bred animals that will build up their herds and flocks without providing them with systems of care and feeding that will prove adapted to their requirements. These men do not understand that every improvement in live stock has come about through increasing the possibilities in the animal by liberal feeding and comfortable shelter.

To furnish concrete examples of the various types of farm animals and the systems of feeding and housing required to maintain the highest efficiency I will use illustrations from types of similar breeding that are familiar to every farmer. Among beef cattle light rations will produce the range type; medium rations the common native type; and heavy rations the large, perfectly developed type. Among the breeds of sheep light rations have produced the small, hardy type of wool-producing sheep; medium rations, the type commonly found in the well-kept farm flock; and heavy rations the best types of large mutton sheep. Among the breeds of swine we find that light rations have produced the bacon type; medium rations the common type found on the average farm; and heavy rations the large, fat backs and finely developed show animals that attain great size and weight. Among the draft horses we find that light rations produce Shetland and range ponies; medium feeding the common farm horse; and heavy feeding the large draft type that commands such high prices at the present time in every horse market. Among dairy cattle light feeding will produce a lean, unpromising type, with long horns and coarse heads; medium feeding will produce the notoriously unprofitable type, so common in the average farmer's herd; and heavy feeding will produce the highly developed dairy cow that frequently produces her own weight of milk in one month. These facts should guide us in selecting profitable animals. It is a waste or money to invest it in highly bred animals that are not adapted to the conditions on our farms.

In selecting horses the farmer should choose those that are best adapted to handling the class of machinery used on the farm. On some rough, hilly farms light horses are profitable, but on the level farm where the fields are large enough to permit the use of machinery and large implements one cannot afford to employ light horses. Heavy horses and large implements, with a seat, conserve the time of men for other profitable work. In this way they reduce the cost of team work on the farm. Still another factor to consider in selecting work horses is that of using brood mares for farm work and raising a few good colts to sell. In this way it is possible to add a few hundred dollars to the income of the farm each year without seriously affecting the efficiency of the organization. The man who employs geldings and mules for work on his farm is not making his farming fit his farm.

The size of the farm, the distance from market, the kind of buildings and the likes and dislikes of the owner are determining factors in the selection of plants and animals that are adapted to the farm. He must, therefore, study the adaptation of the farm, the distance to market, his own tastes and previous training and make a speciality of the crops and live stock that his own judgment teaches him he is qualified to handle. No one can tell another what he had better do, but once having chosen wisely, his success will be measured by the careful thought and attention he puts into his business. Skill comes by thoughtful experience, and to do one thing better than other farmers always pays, and that self-reliance, I may say pride, that comes from successful doing, will enable one to do still better, and by confining himself to a few standard crops and one or two branches of stock feeding and breeding he shall be more likely to succeed. He should always keep in mind that the better the plants and animals the better the pay—and that the best is none too good.

Kansas farmers and taxpayers contributed 5 million dollars last year for "repairs" on mud roads and tin bridges. In ten years $31,000,000 has been spent in the same way and mostly on the same mudholes and bridges. Only a rich state like Kansas can afford the luxury of bad roads, says the Kansas City Times.

Many farmers make the mistake of allowing their hens to run in the fattening hog pen, where they gorge themselves on corn; then these very farmers wonder why they never get any eggs in winter. The fact is, a hen that picks up her corn ration without any more effort than that grows extremely fat and lazy; while her digestive and egg-producing organs become too clogged, inactive and unhealthy for her to produce any eggs.

Turn the chickens out as early as possible in the morning, these short days. Exercise is one of the prime essentials to egg production, and the hens should be out and hustling from daylight till dark. Then chickens fly off the roost just as soon as it grows light enough for them to see, and the first thing they do is to begin scratching around in the filthy droppings for something to eat. That's another good reason for turning them out early where they can scratch in clean litter for grain.

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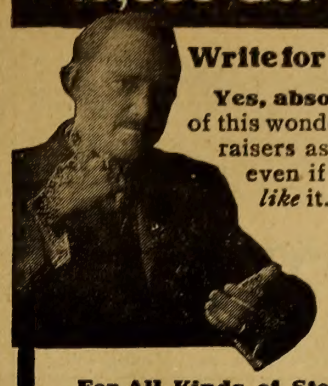

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And to PROVE this sweeping statement, I will send you a 10-pound pail without charging a penny for it. I don't *ask* you to buy it. I don't ask you to buy any more *like* it. I *merely* ask that you place it before your wormiest, runtiest, skinniest hogs, sheep or cattle, or before animals you think in the pink of condition! And afterwards TELL YOUR NEIGHBORS WHAT IT DID! That is the ONLY STRING tied to this offer.

Ringmaster Stock Food expels worms and parasites and *keeps them out*. It tones up the digestive apparatus and other vital organs.

It adds weight — slickens coats — purifies blood — increases milk yield — stimulates vitality and keeps disease and pestilence of all kinds away from *stock*, young and old. *Not a single case of cholera* reported among our feeders this year.

Do you suppose I would make this FREE 10-pound offer if I didn't know the *merit* of this conditioner—if I didn't know what it would *do* and what it *contained*—and what all the others contained, too? Well, hardly!

Do you suppose such well-known feeders as those here mentioned would be using Ringmaster if it didn't pay them in dollars and cents?

Supposing you got rid of only one nasty case of worms, wouldn't that well hog alone pay you handsomely for your trouble?

Send for your 10-pound pail *at once*. No obligation—no charge—no expense to you except a few cents for freight. Your name is all we ask in *exchange* for the 10-pound pail.

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People's Popular Monthly
Des Moines, Iowa

This Planter Never Misses a Hill—

No matter how carefully you prepare the soil, select the seed or cultivate the corn—no matter how rich the soil or favorable the weather, you lose money by planting with a planter that misses even an occasional hill. Don't be blinded to this fact—figure it out yourself. How much did the bare spots cost you last year? Eliminate this waste! Get right down to the bottom of the planter question.

The HAYES Drop never fails. It is the simplest, most durable and most efficient ever made. Fewer parts than any other. Has no clutch to miss and give trouble. Never cracks or grinds the seed. Will drop accurately any size or shape kernel.

The HAYES leaves no bare spots in your fields. No re-planting necessary. Increased yields soon pay for it. Farmers who have been disappointed with edge drop planters are now buying the HAYES never-fail drop.

FOUR Wheels—Bigger Yields

Runners set back between the wheels regulating depth of planting to the fraction of an inch.

The HAYES is the only planter made that will plant every kernel exactly the same depth. Corn all comes up at the same time. Cultivation 2 to 4 days earlier. No missing hills from uneven planting.

Wheels running on an angle pack the dirt around the corn, leaving a loose ridge on top. Will cover where all ordinary open wheels fail—even in wet and sticky soil.

Ridge over the corn prevents wash-outs in hilly fields, gives greater sun surface and loose soil on top allows corn to sprout and come up several days quicker.

CHECKS With Absolute Accuracy

No matter how fast you drive, the HAYES always plants in perfect check, the corn comes up straighter the cross rows than the way you drive. Easiest handled planter for man and team. Also shortest coupled, making it the lightest draft and can be turned in shortest space. For these reasons you can plant from three to five more acres a day with the HAYES and get your corn in earlier—very important, for in some years this makes a big difference in the size of your crop.

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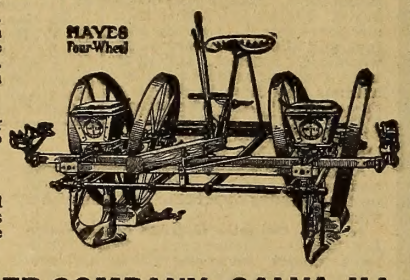
Over 160,000 in use and every one is giving satisfactory, time-saving, money-making service. Compare the HAYES with every other planter made. Note its strong frame. See for yourself that it has fewer cast iron parts than any other planter—malleable iron and steel are used almost exclusively. The HAYES is practically exempt from breakage, delays and repair bills.



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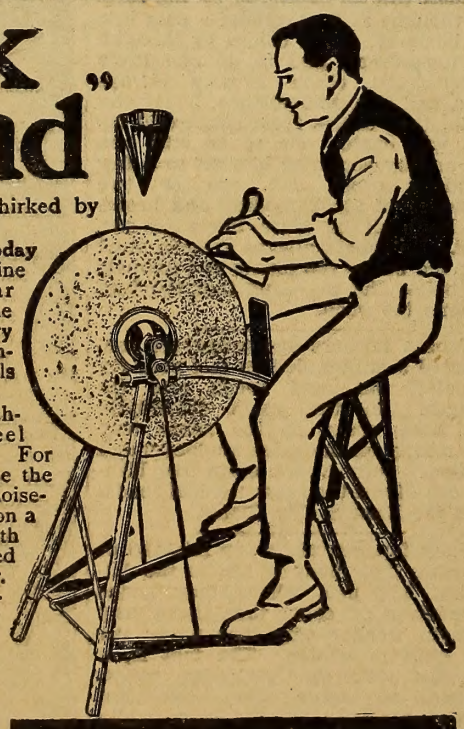
"An Ax To Grind"



Is it a long tedious task shirked by everyone about the place?

If it is, go to your dealer **today** and ask him to show you his line of Richards-Wilcox Tubular Steel Frame Grind Stones. The kind that takes all the drudgery and hard work out of sharpening axes, scythes, mower sickels and heavy tools.

Sharpening an ax on a Richards-Wilcox Tubular Steel Frame Grind Stone is easy. For the ball bearing journals cause the stone to revolve easily and noiselessly while the operator sits on a comfortable springy seat. Both seat and stone can be adjusted to suit convenience of operator. The slightly flexible, but substantially built frame adjusts itself to uneven floors or surfaces. No Grind Stone at any price, anywhere, can "hold a candle" to the Richards-Wilcox.

You'll say the same—you'll be as enthusiastic as we are—when your dealer demonstrates its many advantages over the ordinary muscle-cramping kind.

A postal card will bring you our latest Grind Stone Catalogue and a very interesting little booklet. Send for them today—they're well worth reading.

Richards Wilcox Mfg. Co.

133 Third Street. - - AURORA, ILL.

We also make an excellent Power Grind Stone that can be attached to your Gas Engine.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

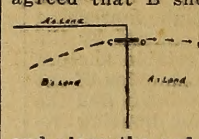
SHIPPING HORSES—NO INSPECTION.

A Subscriber, Farmington, Iowa.—I intend to move from Iowa to Texas this winter, taking with me some horses. Will I have to have my horses inspected before leaving Iowa, and if so, who has authority to do it?

Answer.—The law of Iowa does not require you to have your horses inspected before shipping them from the state.

DRAINAGE AGREEMENT—COMPLIANCE BY ONE PARTY.

Mr. Quincy Scott, Caledonia, Wis.—The diagram represents adjoining lands of A and B, the arrows indicating low land and the direction of surface water. Seven years ago A and B mutually agreed that B should furnish tile for each a bridge from C to D, and A should put in his half of the bridge and plow three furrows about five rods long on A's land from D to E, and place the sod on the bridge, so as to give B a better outlet. Complying with this agreement, B purchased thirty-four ten-inch tile, and put in his bridge, and put seventeen ten-inch tile under A's fence for his use. B waited three years for A to put in his bridge and plow the furrows, and then rolled and harrowed twelve acres of oats for A, before he could get him to plow the furrows—and B put in both bridges. The ditch drained B's land for four years until last fall, when A through spite filled the ditch and bridge and flooded four acres of B's corn and hay land, causing him a loss of $200. Can B recover damages and compel A to keep the ditch open?



Answer.—B can recover damages for the injury done by the overflow, and he can compel A to keep the ditch open by proper proceedings in court.

WARD'S LEGACY—INTEREST.

An Illinois Subscriber.—A's grandfather died when she was ten years old, leaving her by his will $75. A's father was appointed her guardian and when she was eighteen years old he paid her $75 and took her receipt therefor. (1) Should he not have paid her interest on the $75 from the time he received it till date of payment? (2) Can she now recover anything from her father on account of interest, or is such claim outlawed?

Answer.—A's guardian should have accounted for interest on the $75 from the time he received it till date of its payment. At the same time he was entitled to compensation as guardian. Such compensation is fixed by the probate court, and in this case the legacy is so small that perhaps the interest on it would not amount to more than the court would allow the guardian as compensation for his services. (2) A's claim is not to be outlawed, but it is very doubtful whether or not she could recover anything further from her guardian by law.

GRAIN RENT—STRAW AND STALKS.

A Subscriber, Aledo, Ill.—A owns a farm in Missouri and rented it to B for grain rent, but nothing was said about straw or cornstalks. B claims all the straw and cornstalks. Is he lawfully entitled to them?

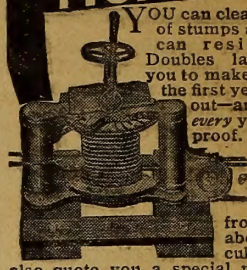
Answer.—As the land was rented for grain rent the tenant is entitled to the straw and cornstalks grown on the rented premises. All that A can lawfully claim as rent is the proportion of grain agreed upon in the rental contract.

PAPERS NOT SUBSCRIBED FOR.

A Subscriber, Goodell, Iowa.—I am getting six different papers by mail, some weekly and some monthly. I never subscribed for any of them. Some have been coming for more than a year, and others for two months. Two of them are German papers that I cannot read. They are delivered on rural route and my children get them out of the mail box. Somebody is continually sending in other people's names without their consent. The postmaster says I will have to pay for the papers. What can I do about the matter?

Answer.—Where a person receives papers through the mail without making objection thereto, he is liable to pay for the same, although he has not subscribed for them. You should take the papers from the box and give them to the postmaster, and

Pull 100 Stumps A Day—With The Hercules



YOU can clear an acre or more of stumps a day. No stumps can resist the Hercules. Doubles land value—enables you to make $1200.00 on 40 acres the first year after stumps are out—and $750.00 in crops *every* year after. Get the proof. Why not

Write Us Now

Book tells all the facts—shows many photos and letters from owners—tells all about the many Hercules features. We'll also quote you a special money-saving price proposition that *will interest you.* Address

HERCULES MFG. CO. 141 21st St., Centerville, Iowa

GRIND 150 BU. PER HOUR

LESS THAN 1¢ PER BUSHEL!

Bowsher Mills often reduce the cost of grinding one-half. That's because they are light running, with perfect conical shape grinders, different from all others.

BOWSHER FEED MILLS

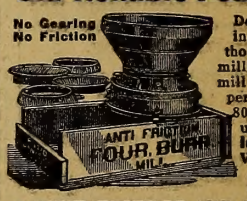
(Sold with or without elevator)

Crush ear corn (with or without shucks.) Grind Kaffir in the head and all kinds of small grains. Handy to operate. 10 sizes—2 to 25 H. P. Also sweep grinders.

FREE Send for folder on values of feeds and manures.

E.N.P. Bowsher Co., South Bend, Ind.

Old Reliable Four-Burr Mills



No Gearing
No Friction

Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 2-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the **Famous Iowa No. 2 mill for $12.50** Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

BOVEE GRINDER AND FURNACE WORKS
100 8th Street, Waterloo, Iowa

From Cob to Meal

Faster and Cheaper

Wet or dry, cob or grain—all the same to the "Bull Dog". Can't clog—it's *force feed* throughout. One set of rollers grinds 5,000 bushels

The Roller Grinding **Bull Dog**

Use It 10 Days Free

Test this great grinder on your farm. If it isn't the fastest, lightest-running mill you ever saw—send it back at *our expense.* Write for details, stating H. P. of engine.

Letz Mfg. Co., 128 East Road, Crown Point, Ind.

DITTO IMPROVED POWER FEED GRINDER

This new grinder is especially designed to run with a Gasoline Engine. Try it—no money down. I trust you—keep it if satisfied, if not, return it at my expense. I take all the risk.

AN HONEST MILL, SOLD IN AN HONEST WAY

Grinds ear corn, wet or dry, shell corn, Kaffir corn or any kind of small grain. Also make the celebrated Ditto Sweep Grinder. Write for FREE catalogue.

G. M. DITTO. Box 201 Joliet, Illinois

FREE Hauling Test

Try Them 30 Days

Send us measure of wagon skeins and we'll ship you a set of *Empire* Steel wheels to fit—so that you may prove that *low*

EMPIRE STEEL WHEELS

End Drudgery of High Lifting And Save 25% of The Draft

If not satisfied after testing 30 days, return them at our expense your trial costs nothing. Write today for Empire wheel book and free trial offer, also ask about introductory offer on *1913 Empire Handy Wagons.*

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Northfield Well Curb

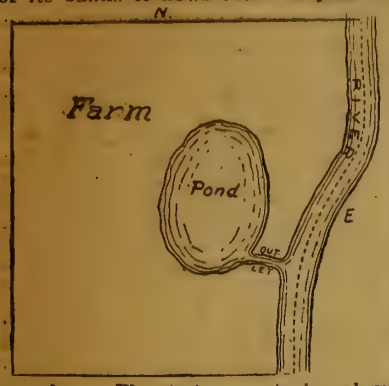
Prevents disease. Germs and filth cannot seep in. Will not rust or taint water. Any size. Anyone can install. Write today direct to factory for catalog.

Northfield Iron Co., 146 Water St., Northfield, Minn.

then and there tell him that you have not subscribed for them, and refuse to take them and have him notify the publishers to that effect.

SPEARING CARP IN A POND.

A Subscriber, Dows, Iowa.—My farm is bounded on the east by the center of the river as shown in the diagram. When the water in the river gets out of its banks it flows into the pond on



my place. The water must rise about two feet in the river before it will flow into the pond. The outlet is about four rods long, and is filled in with mud. Last spring, when the river was high, carp got into the pond. Can I spear these carp without violating the law?

Answer.—We think you have a right to spear carp in the pond, and that it would not be a violation of law.

RENT EXCLUDES ROAD.

A Subscriber, Elberon, Iowa.—A owns a farm and rents a part of it to B. The contract provides that B shall pay to A cash rent for all tillable land on said part of the farm. Does such contract require B to pay rent on the ground occupied by a road running along the part rented? There was nothing said verbally or written about this matter.

Answer.—The ground occupied by the road is not tillable land, and therefore B is not required by the contract to pay rent for it.

PRESUMPTION OF DEATH.

A Nebraska Subscriber.—A man died intestate in Nebraska, leaving six living children, and another who had left home and had not been heard from for more than twenty-three years by any one who might have expected to hear from him. An administrator of the estate was appointed and the estate was duly probated. The county judge found that the missing child was legally dead and awarded to each of the six living children a sixth part of the real estate, which is now being sold by the court in partition proceedings. (1) Can a good title to the land be given in such proceedings? (2) Should an administrator be appointed for the estate of the missing child?

Answer.—(1) Where a person is absent from his home and friends for more than seven years, and unheard of and cannot be found, he is presumed by the law to be dead, and when such facts are shown to the court it may judicially declare the fact of death. Such finding should be entered in the records of the court as part of its decree. If this was done a good title could be given to the purchaser in the partition proceedings. (2) It is not necessary for administration on the estate of the missing child.

AUTOMOBILE DEAL—SUIT FOR DAMAGES.

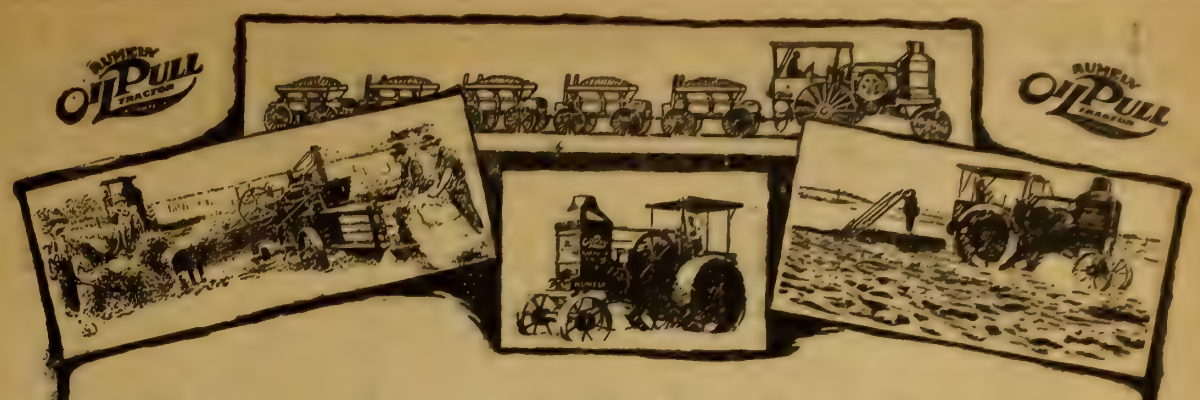
Orin E. Chapman, Redfield, Iowa.—Last spring I bought an automobile from a branch house in Chicago of an automobile works, whose main office is in Anderson, Ind. The automobile had been used and the tires on it were bad, and the manager of the Chicago office promised to send new tires with it. The auto was shipped to me in April, 1912, without the new tires, the manager explaining that he did not then have them in stock, but would send them as soon as he could get them. Soon after this he was discharged and another took his place. The company by letters acknowledge that I was to have good tires, but does not send them and I will likely have to bring a suit against the company. (1) Would such suit have to be brought against the branch house in Chicago or against the company in Indiana? (2) Could it be brought before a justice of the peace?

Answer.—(1) The suit could be brought in Chicago. (2) If the amount of your claim is $200 or less it could be brought before a justice of the peace—if more than $200, in the circuit court.

SON-IN-LAW.

A Subscriber, Rockford, Iowa.—Does a son-in-law continue to be a son-in-law when his wife dies and he marries another woman?

Answer.—The term son-i-law has no particular legal significance, and when his wife dies, and he marries another woman, he ceases to be a son-in-law to the parents of his first wife.



Your Chief Helper

A Rumely OilPull Tractor, 15-30 h.p., would soon win this title

One big advantage of a tractor is this—you can work it hard at the right time—24 hours a day, if necessary. The big advantage of an OilPull Tractor is that it can stand this pace without danger of a breakdown. It's value in a rush will pay you for having it. The

RUMELY OilPULL TRACTOR LA PORTE IND.

Tractor, 15-30 h.p.

is built particularly for small farms. A 160-acre farm can use it with profit and a big farm will find it a mighty handy machine.

You can use it profitably 365 days a year. It will build roads, saw, thresh, bale, shred, etc. It has a range of 100 revolutions per minute in pulley speed—fits any machine. It will run any but the largest separators.

It has plenty of power for ordinary work—pulls 4 bottoms in ordinary breaking—4 to 6 in plowing. It will plow and disc 10 to 14 acres a day. Two boys and this tractor will do the work of 4 men and 12 horses all the time—as much more at night with another crew.

The big part about this tractor is that it is easily handled and will go almost anywhere. It is fine for slow, steady work, and is equipped with two geared speeds, for heavy hauling and quick return, harvesting, hill-climbing, etc.

Every 1913 OilPull is self-steering—Dreadnought guide furnished with it. Any kind of farmer can make use of this tractor to advantage. Write for illustrated catalogue.

RUMELY PRODUCTS CO.
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Power-Farming Machinery
LINCOLN DES MOINES
Home Office: La Porte, Indiana

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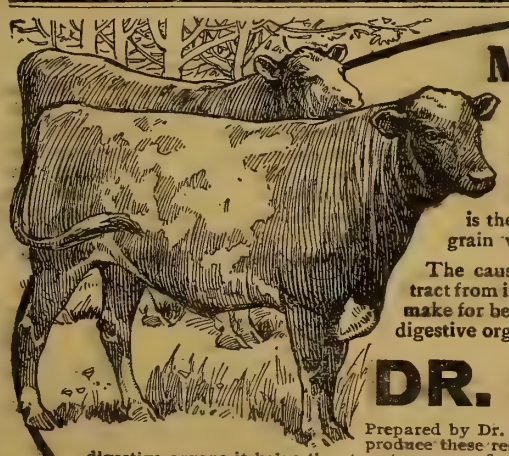
Making Beef Economically



The business of the steer-raising farmer is to turn feed into beef at the lowest cost and in the shortest time. But the fattening steer wastes a good portion of his ration, which is the reason why you let your hogs follow the steers to get the whole grain which they pass off as waste.

The cause of this waste is poor digestion—the inability of the animal to extract from its ration, in proportion to the large amount consumed, those nutrients which make for beef, blood and muscle. Tonics are needed to strengthen and invigorate the digestive organs of the steer—to sharpen its appetite and keep the system generally toned up.

DR. HESS STOCK TONIC

Prepared by Dr. Hess (M. D., D. V. S.) is a scientific preparation which will produce these results. Its actions are manifold. By acting directly on the digestive organs it helps the steer turn more food into flesh. It helps the animal to vigorous maturity and wards off disease germs. The U. S. Dispensatory remarks on the ingredients of Dr. Hess Stock Tonic, printed to the right, speak volumes for this guaranteed flesh and milk producer. Now read

Our proposition: Procure of your dealer Dr. Hess Stock Tonic. Use it all winter and spring. 25-lb. pails at $1.60 or 100-lb. sacks $5.00. Except in Canada and extreme West and South. If it does not pay you and pay you well, get your money back. Every pound sold on this guarantee. If your dealer can't supply you, we will.

FREE. Dr. Hess (M. D., D. V. S.) will at any time prescribe for your ailing animals free of charge if you will send him full details. Mention this paper and send 2c stamp. 96-page Veterinary Book also free.

DR. HESS & CLARK, Ashland, Ohio.

Dr. Hess Stock Tonic contains:
Nux Vomica. Digestive and Nerve Tonic.
Quassia. Digestive Tonic and Worm Expeller.
Sulphate of Iron. Blood Builder and General Tonic.
Sulphate of Soda. Laxative and Liver Tonic.
Common Salt. Appetizer, Cleanser.
Epsom Salts. Laxative.
Nitrate of Potash. Stimulates kidneys.
Charcoal. Prevents Noxious Gases.
Fenugreek. Tonic and Aromatic.
The above is carefully compounded by Dr. Hess (M.D., D.V.S.), with just enough cereal meal to make a perfect mixture.

DR. HESS POULTRY PAN-A-CE-A makes busy hens in January. It tones up the dormant egg organs, brings back the scratch and cackle, takes the hens out of the loafer and puts them into the layer class, and you will plainly see the results of feeding Pan-a-ce-a in the egg basket. The cost is hardly worth considering—a penny's worth feeds thirty fowls. Sold on the same money-back guarantee as Dr. Hess Stock Tonic. 1¼ lbs. 25c (mail or express 40c); 5 lbs. 60c; 12 lbs. $1.25; 25-lb. pail $2.50 (except in Canada and extreme West). If your dealer cannot supply you, we will.
Send 2 cents for Dr. Hess Poultry Book, Free.

INSTANT LOUSE KILLER KILLS LICE

Save Your Hogs—

Anything that helps you keep disease from hogs is certain to increase profits at market time; and in helping you do this Lewis' Lye is therefore worth many times its cost.

In safeguarding your money investment in hogs—don't overlook the importance and value of lye. Lewis' Lye, because of its guaranteed purity, full strength—*its simplicity of feeding*—has long been recognized as the surest hog conditioner.

Lewis' Lye

The genuine has a Quaker label on every can.

The Standard for Half a Century

Saves its cost hundreds of times a year for *others*. When fed to your hogs consistently, according to our specific directions, *it will do the same for you*—and produce big, fat, healthy animals at market time.

On The Farm—

Lewis' Lye, as the pure lye it *is*, is especially recommended as a hog conditioner and preventive of disease. It is also valuable as a disinfectant and for spraying trees, vines, etc., etc.

In The Home—

For soap making, softening water, destroying vermin cleaning pots, pans, dairy utensils, cream separators, woodwork, windows, etc. Lewis' Lye is supreme because it cleans without scouring.

When you order lye see that the purest and best is delivered to you. Get Lewis' Lye—the only lye made and sold by manufacturing chemists, 98% purity and full strength guaranteed.

Our booklet suggests many uses for Lewis' Lye on the farm and in the home that *you* should know about. Mailed free on request. Address:

PENNSYLVANIA SALT MFG. CO.
Manufacturing Chemists
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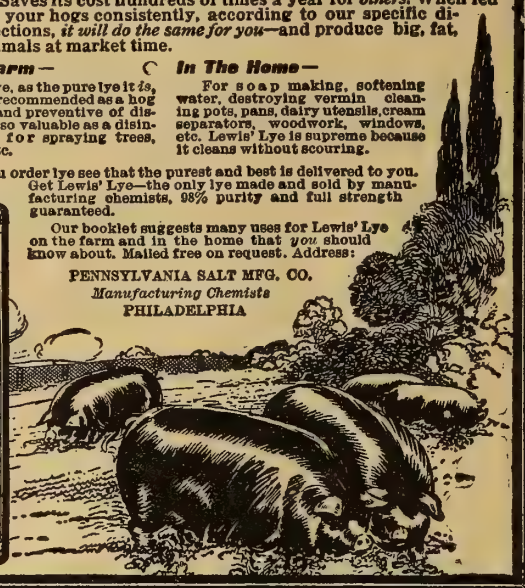
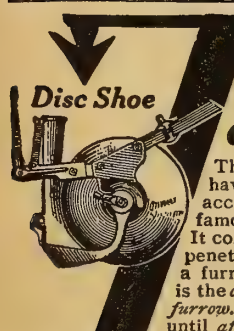


The Only Drill That Sows Grain in Any Kind of Soil—at a Proper, Even Depth

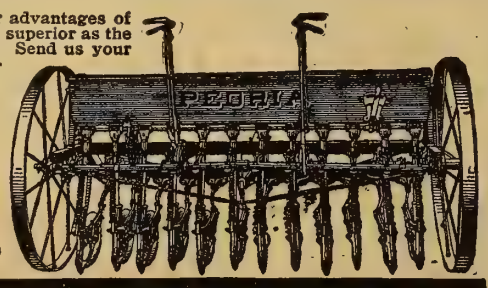


Think what it would mean to you to have *every* seed count and to have *every* stalk come up *evenly* and at the *same time*. You can easily accomplish this—with The New Peoria Drill equipped with our famous Disc Shoe Furrow Opener.

It combines every advantage of the single disc for cutting trash and penetrating hard ground, with every advantage of the shoe for forming a furrow and depositing the seed. The Disc Shoe Furrow Opener is the *only* one that sows every seed at an *exact, even depth*, in a *packed furrow*. No seed touches the disc and no dirt falls back into the furrow until *after* the seed is deposited. No practical, progressive farmer can fail to see the many money-making and money-saving advantages of this wonderful Disc Shoe Furrow Opener—found *only* on

The New Peoria Drill

There are also many other advantages of this drill, each one just as superior as the Disc Shoe Furrow Opener. Send us your name and address on a postal now for catalogue and all details of construction. Let us prove to you that it will pay you to discard even a new drill in order to buy and use the New Peoria. Will you spend a penny for a postal *now* to get all the facts? Address,



Peoria Drill & Seeder Co.
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CLUB RAISERS WANTED

I want a local subscription representative in each town in Iowa, Illinois and Nebraska, where I do not have a solicitor at present, to take subscriptions for The Homestead during the winter months. An energetic person can make excellent money working for me.

A Justice of Peace and farmer made $347.00 during December, January, February and March last year with practically no effort on his part. Just as he happened to meet his friends he asked them to subscribe.

An old soldier has earned $386.00 in the last year and has not been away from his blacksmith shop to solicit subscriptions.

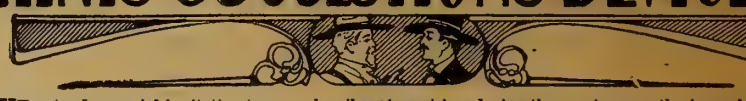
A lady who had sold extracts all her life took up our work last winter and has made over $300.00 this year without leaving her home town.

It requires no particular ability to become a subscription representative. There is no reason why you should not make from $300.00 to $600.00 this winter, looking after my subscription interests in your locality.

If you prefer premiums to cash commissions, write us for a list of the nice presents we can make you for raising a club in your neighborhood. We have everything useful to give away from egg beaters to sewing machines and gold watches. Address

James M. Pierce, Publisher Homestead, Des Moines, Ia.

HINTS·SUGGESTIONS·DEVICES



We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

KEEPING RATS FROM POULTRY HOUSE.

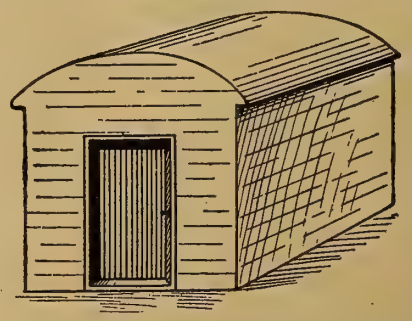
If there are many rats in your vicinity it will pay you to make it impossible for them to enter your poultry house. Put a post in the ground for every corner of the house. Invert over the top of the post an old three-gallon tin bucket. Set your house on these posts and when Mr. Rat attempts to climb a post and go into the poultry house he simply goes up inside the bucket and does not accomplish his purpose.

Feeding Alfalfa to Hogs.

In the West, where alfalfa is the chief crop, it is fed with success to growing pigs, and is used in connection with grain for fattening pigs. When the hay is fed by scattering on the ground at least half of it is wasted, and it therefore becomes necessary to devise some means for protecting it, at the same time allowing the pigs free access to the feed at all times. A tight box six feet long, eighteen inches deep, and the same in width, with a hinged top, has been found very satisfactory. As shown in the ilustration, three circular holes are cut in one side, the holes being eight inches in diameter. By making the box two feet wide, and putting a partition in the center, from end to end, holes may be cut on both sides, allowing more hogs to feed at a time. The hinged lid is raised, the alfalfa hay put in, and the hogs allowed to get what they can from the holes on the sides, when it is filled again. All the dry leaves, which are the more valuable part of the hay, are thus saved. A slatted rack similar to that used in feeding cattle and sheep may be used, if the trough at the base is narrow and is set on the ground so that hogs can reach it. The box with the hinged lid has the advantage, however, of keeping the feed dry, and at all times easily accessible.

A Concrete Milk House.

A house for keeping milk cool in the summer and storing fruit and vegetables in the winter may be constructed out of concrete from floor to roof. Make an excavation in the ground four feet deep, the desired length and breadth of the building. Set two posts in the ground at each corner, leaving a space between them



the thickness of the walls. Inch boards a foot wide should be placed on the inside of the posts next to the ground. The first layer of concrete, made of cement and coarse gravel can now be placed between them. After this is done, put another round of boards just above these and put in another layer of concrete. Then put on another layer of boards and cement and so on until the building is up to the desired height. The door frame can be set between the boards at one end of the building when the walls are built up to the level of top of ground. It can be made secure by bolts extending from the door facing into the concrete at sides. The roof can be made an oval shape by circular rafters resting on the side walls. After rafters are covered solidly with boards a covering of cement may be put over these, a place for chimney being left in center of roof. Leave rafters and sheeting to give strength to concrete. The floor should also be made of cement, sloping to one corner where a ten-gallon jar may be set into the ground to catch the water that may get into cellar. The doors of house should be double, one opening inside and the other outside of house.

The Ice House.

The location of the ice house is important. It should be placed on ground that is easily drained, and if possible

HURRAH FOR WARM FEET

Cheers for comfort at work or on the hunt! Don't take risks—health and pleasure depend on dry, warm feet. You're certain of a good time in

BEACON FALLS

LOOK FOR THE CROSS

Leather Top Rubber Shoes

ROCK ELM and **MANITOBA** are two mighty good ones to wear. Want heels? **MANITOBA** has them—with pure gum, duck uppers—waterproof—puncture proof. **ROCK ELM** is pure gum upper with protective ribbed toe—no heel. Both have chrome leather tops with bellows tongue, rawhide laces. The 10" high cost about $4.50 at your dealers. If he doesn't have them, send us his name. Remember the "Cross" is your protection. Look for it at your dealer's.
Ask for booklet No. 10.

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Hundreds are doing it
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This machine is simple, strong and durable throughout.

We sell it under an ironclad guarantee to return the money if after a thorough trial it has not proven entirely satisfactory. It does the work swiftly and satisfactorily.

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Special Barbed Wire, $1.55 per 80-rod spool.

Our large Catalog contains fence information you should have. It's free.

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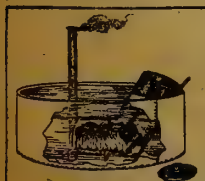

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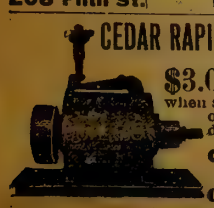
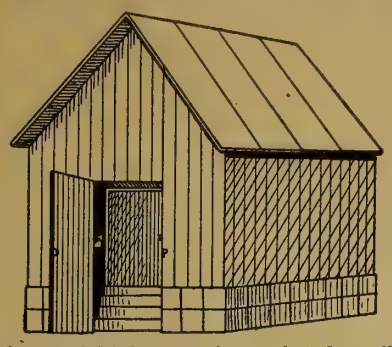


$3.00 MORE butter from each cow per year, when separator is operated by our Governor. Ask your dealer to write direct to

Cedar Rapids Foundry & Machine Co.,
Cedar Rapids, Iowa.

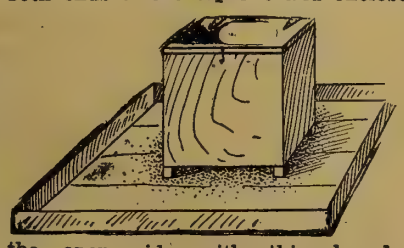
located beneath the shade of some large tree that the beaming rays of the sun may not beat on it in the hot summer time. Here is a good plan for building an ice house which has been used by a number of farmers: Make an excavation three feet deep and twelve by twelve feet. Wall this up with brick or cement blocks, letting the wall extend two feet above the ground. Dig a trench and put in a tile drain. Now put up the house, using two by ten studding ten feet long for the walls. Place the studding two feet apart. Then board up the building inside and out. A cheap grade of lumber may be used for inside work. A hollow space ten inches wide will be left in the walls, and this should be filled with sawdust. Straw is not good for this purpose, and should not be used. Either shingle or felt roofing may be used for covering, but one should be certain to get



the roof high enough so that he will not strike his head when putting in the ice. The door to the house should be two feet eight inches by six feet eight inches or close to these dimensions. Cleats should be nailed to the inner and outer edges of the door facing to hold ends of boards that may be slipped in and sawdust tamped down between them. Put coarse cinders over the floor of ice house and cover them with eight inches of sawdust. Now the house is ready for the ice. Cut the cakes of ice the size to fit your ice box or refrigerator, and be certain to secure the purest ice possible. At the ice house the cakes can be slided down a long board into their places. I believe it is best to set the ice up edgeways. The cakes are easier to get out and they retain their usual thickness. Pack the ice to within five inches of the wall all around the building and pile ten or twelve feet high. The ice should be packed as solidly as possible, therefore all cracks should be filled with small chunks and particles of ice. Put eight inches of sawdust over top of the ice, packing it down in the five-inch space all around the house.

Feed Hopper for Poultry.

The objection to the ordinary hopper is that so few fowls can be accommodated at one time. With the hopper shown herewith that difficulty is entirely obliterated. Simply use two store boxes, the lower one measuring eighteen by twenty-five inches, five inches deep; the other eleven by eighteen and twenty-eight inches deep. The lower one should need no changing, but it is necessary to tear out both ends of the top one and enclose



the open side with thin boards. Later replace one end, putting it on leather hinges which makes it easy to open when wishing to fill the hopper. As shown in the illustration this feed box is placed inside the flat box, raising it from the floor one and one-half inches by means of blocks securely nailed. Being so large nearly two bushels of feed can be put in at a time and the trough all the way around, as is sets in the center of the scratching pen, makes it possible for a large number of hens to feed at the same time. A mixture of grains may be used such as wheat, corn, oats, and if in addition plenty of beef meal and alfalfa meal are supplied the results are very pleasing.

Sherman Says: "IT'S A MONEY MAKER"

HERE'S a letter of more than usual interest. It is written by a well-to-do farmer in the Corn Belt—Mr. Henry A. Sherman, Leland, Ill.

He tells how he cuts down his farming costs and shows why a **Hart-Parr Oil Tractor** is a money maker on Corn Belt farms. But you must read the letter to learn why you ought to apply his methods to your particular power problems.

"Leland, Ill., Nov. 21, 1912.

Hart-Parr Co., Charles City, Iowa
Dear Sirs:—My Hart-Parr Oil Tractor is the best piece of machinery I have on the farm.

A General Purpose Outfit I use it for plowing, threshing, shelling corn, hulling clover, grinding feed and grading roads. I plowed 150 acres in 10 days, but could have done it in half the time had my plows been larger. I used a 5 bottom plow, but could easily pull a 10 bottom plow.

Furnishes Handy Power I pulled a Sandwich No. 7 sheller and shelled a 60 bushel box of corn in a minute and a half, running on one cylinder only. My thresher is a 36x56. I threshed 3,000 bushels of oats a day, working the tractor on only one cylinder.

It's a One-Man Outfit Hulling clover is no work at all for the tractor. I ran both machines at this work. My grinder will grind 60 bushels of feed per hour, yet this is easy for the tractor.

Operates Road Graders When grading roads, I drew 2 Concord horse graders at one time. I graded 1¼ miles of road and raised the pike 4½ feet in 4 days.

Just Eats Up Work Here's a table of the work I did with my Hart-Parr Tractor the past year:

Plowed 90 acres — Threshed 500 bu. of wheat
Shelled 2,000 bu. of corn — Hulled 600 bu. of clover
Threshed 42,000 bu. of oats — Graded 1½ miles of road

I ground very little feed with it, but expect to do a lot of grinding this winter.

Repairs Cost Almost Nothing My repair bill for the entire season's work amounted to only 95 cents.

Uses Cheapest Kerosene For the hardest day's work I used only 40 gallons of kerosene at all loads."

And Now, after you have read this letter, if you want some literature on the subject of power farming with a Hart-Parr Oil Tractor which will prove of interest, write today for our catalog, testimonial folder and Plowing and Tilling booklet.

HART-PARR CO. 228 Lawler St., Charles City, Iowa

62

Dry feet go a long way towards good health. No farmer here where there is mud when it rains, thinks of going without good rubber boots. Years ago a pair of old cowhides, hard stiff boots that they were, was the customary article of footwear on the farm.—[Henry Hatch.

Enjoy the Winter Months in California—The land of outdoor life and unequaled attractions

Three daily trains to California, the Overland Limited, the Los Angeles Limited and the China & Japan Mail between Chicago and California make close connection with train service from all points on the North Western Line. They form the most splendid and complete trans-continental service, and offer choice of routes going one way and returning another, without extra charge. Send for booklet and information, or call on any Ticket Agent of the North Western Line.—Adv.

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Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

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Your dealer sells them. 1913 Seed Annual free on request.

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Feeds Stock and Land Best of All

As a fertilizer of wornout or sandy soil, Sweet Clover is absolutely unequalled. Don't take all the goodness out of the land without putting anything back. Sow Sweet Clover on the Sand Hills of Colorado and Nebraska and get a bumper crop.

Cattle pastured on Sweet Clover will fatten as it fed on specially prepared food. Sown in the orchard between trees, it loosens the soil and promotes growth. Ploughed under, Sweet Clover will increase your crops from 50 to 100 per cent.

Write for prices on Sweet Clover, Alfalfa and Sand Vetch

Griswold Seed Co., 191 S. 10th St., Lincoln, Neb.

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AT IT OVER 28 YEARS

For twenty-seven years I've been selling "Seeds and Plants that Grow." I've been selling them direct—at rock bottom prices—no agents' commissions attached. My catalog has always been my only salesman. My

Free 1913 Nursery and Seed Book

is now ready. Send for it. It's the result of 27 years' experience. Lists all kinds of trees and plants; farm, garden and flower seeds. Quotes lowest prices, no agents' commission to pay. Here are a few of the many bargains. Apples 8c each; Cherry 10c each; Plum 15c each; Catalpa Speciosa seedlings 8-12 inch $1.75 per 1000.

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Remember my seeds are all Nebraska Standard. I pay freight on $10.00 tree orders. Send for catalog, see my prices. A postal brings it.

German Nurseries & Seed House, Box 143 Beatrice, Neb.

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That's what farmers are making by testing their seed corn. Instead of 40 bu. they are raising 75 bu. to the acre. You can do the same. The secret is to test corn with

Holden's Ideal Corn Tester

The Most Perfect Tester Made.

It's the surest, quickest and best way to sort out good seed. Good seed means big crops, larger profit. Holden's tester tests accurately. Easy to operate. Built of steel. Sells at a price which every farmer can afford.

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CLOVER AND TIMOTHY $4.50 Per Bu.

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GUARANTEED ALFALFA SEED

Absolutely pure, free of weeds, vigorous hardy, northern grown, non-irrigated. The kind that will grow on your land. **Sold on approval. Get free samples** and cultural instructions; big seed catalog and wholesale price lists.

HENRY FIELD SEED CO., Box 25, Shenandoah, Iowa.

When writing to advertisers please mention The Homestead.

HORTICULTURE

BERRY GROWERS' WINTER WORK

To the Editor of The Homestead:

There is no good reason why the berry grower should be idle in winter, for there is much to do in preparation for the growing season which is just ahead. There is work which may be better done now than at any other season. Some of it is work which is done at this time with less labor than at any later time.

We will suppose that the strawberry beds have already been mulched, for as every well posted berryman knows, that work should be done in November or December. But if in the pressure of other work the strawberry beds are not yet protected it is better to do it in January, than not at all. It is better late than never. They have perhaps suffered some injury, from the changes of December, the frosts, and the thaws. But if you mulch in January, you will save them from a repetition of that scorching process, in February and March. The word scorching is used advisedly for to scorch the foliage ha the effect of the alternate freezing, and thawing. You will hear people say, "I can grow strawberries without mulching." Do not let that deceive you. It is true they can grow some berries, but without mulching the crop will be shortened from one-third to one-half. Many a light crop of berries is explained by the fact that no winter mulch was given. People think that the "blight struck them." But it was, in many cases, the blight of winter injury. So apply the mulch to the beds, if it is still undone. But the raspberry patch demands attention.

The old dead wood should all be cut out, and burned. There are different methods of taking this out. Some use a bush scythe, or a sickle. Some use a corn knife. But the best way I have found is to break them out with a pitchfork. Select a cold winter day, for the wood must be frozen, if you succeed with this method. Choose a light four-tined fork. Or at least it should be a fork with straight tines. Put it through the hill so as to take in the dead canes, and no other, and hold it close to the surface. Now give it a vigorous push, and out comes the old wood.

After this has been put out of the way, you can see better, to do the next thing. And that is to thin out the live canes. Reserve three of the more vigorous canes to the hill, and cut out all the rest. Cut them close down, and you may perhaps find that the tree clippers are the best tool to use. You will be tempted to think it is a pity to cut out so much wood, and you will figure up mentally how many more berries you can get from eight canes than from three. And then perhaps you will be scared out from the job. But heroism pays here, as it always does. You may, indeed get more berries in number by count from eight canes than from three, but if you measure them you will find that the larger berries from the three will measure up more quarts than the small, inferior berries from the eight. You cannot cheat nature, you may take your choice of a large number of poor, small fruits or a less number of choice, good samples, but you cannot get both.

The work of tipping back the canes is usually left until spring, and done after growth starts. But I have not found that there is any advantage in this plan. Indeed, it is an advantage to get every possible part of the work out of the way before spring opens. I have ever found that labor is cheap in winter. Then I can hire a man at ten dollars per month. And after April first I must pay the same man thirty dollars. It i clearly better for me to have him spend ten dollar time upon this job than thirty-dollar time. Cut off one foot, to eighteen inches, of the tips of every branch. How much to cut will depend upon the vigor of the canes, and the length of the branch. Rake up all this rubbish and burn it and also all the old weeds, if such have been permitted to grow.

By doing this great numbers of insect eggs and disease germs will be destroyed. The best place for those things is the brush heap and your berry patch will be purified by fire. After all this is done look over your fruit garden and it will delight your heart. It will be in perfect shape and full of the promise of success, which inheres in careful preparation.

Much the same work should be done in the blackberry field. Cut or break out the dead wood and burn it. It will be easier to use the fork here than in the raspberries, for the production of canes is more scattered. Nature does not produce such a surplus, as with the raspberry. For that

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BUY your seed corn early. Hundreds of bushels selected the last of September and first of October and hung on wire hangers. Germination perfect. Send for catalog and order seed to be **SHIPPED WHEN YOU WISH.** Hundreds of dollars returned last year because we could not fill orders. Seed raised in the famous Mississippi Valley. The best corn land in the world.

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WE accumulate in connection with our large stone quarry business an excellent grade of limestone screenings, which is excellent material for fertilizing sour land. Reasonable prices and prompt shipment can be made. Burlington Quarry Co., Keokuk, Ia.

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CAR LOTS or less. Will pay you more than you can get elsewhere. Send samples today. Also want timothy, red clover, alsike, etc.

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Prices bound to be higher later. Buy before advance and save money. Write today for special low price and free samples of our Pure Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Have alfalfa, alsike, sweet clover, all kinds grass seed. Write us now.

A. A. BERRY SEED CO., Box 103 Clarinda, Iowa

A SET of six booklets, each one about increasing yields and lowering cost of farm, garden and orchard crops. In each there is **a message for you.** For instance, do you know how to plant a field of potatoes, to obtain a 100 per cent. stand? Our booklet, **"100 per cent. Potato Planting,"** will tell. That is one message you should receive. **"Spraying Vines, Trees and Bushes," "Thorough Cultivation," "Gardening with Modern Tools," "Economy and Better Crops"** and **"Digging Potatoes,"** contain many other messages. But we cannot deliver them until we have your address. It is, therefore, up to you to write at once. We prefer to send these booklets to interested parties only, but they are free to all such.

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ONION SEED 85 CENTS AND UP

We believe we have the best onion seed there is. We supply many of the largest growers and would like to supply you. We have an enormous crop this year in the best commercial varieties and will make special prices to good buyers. Tell us how many acres you are going to plant in onions and what varieties, and we will send you liberal free samples of our seed for testing and quote you special prices. Big illustrated seed catalog.

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We are the largest seed corn firm in the world. Big plant at Mason City in central Illinois, and big new plant at Geneseo in northern Illinois. Over 75,000 bushels of thoroughbred seed corn in our furnace heated houses. **15,000 bushels on wire hangers selected by men going through fields with sacks over their shoulders.** Germination perfect. **All seed shipped on ten days approval.** Grow our own seed. Begin gathering seed in September. Central and northern Iowa, and northern Illinois farmers, get your seed at Geneseo, Illinois. A perfect stand will make you money. Write today for our beautiful corn book, **free for the asking.** If you are in central or northern Iowa or northern Illinois, address Geneseo, Illinois.

The G. D. SUTTON CO., Dept. D, Mason City, Ill.—Geneseo, Ill.

reason there will be less of thinning out of the live canes. In fact we have but rarely seen blackberries so thick as to need thinning.

Get out all this rubbish and burn it, even if you practice the no-culture plan. If you clean up your field you may retard the attack of rust, the deadly enemy of the blackberry. There are comparatively few insects to bother this fruit, but sometimes they come, and the better you do your work, the longer you will be free from their attacks. Be sure it will pay you to do things thoroughly, and keep up the best possible conditions for future success. A field so kept is very pleasing to the thoughtful mind, for the present perfect shape presages good coming results.

M. E. H.

SELECTING PLUMS.

To the Editor of The Homestead:

After a prolific plum year, like 1912, it is a good time to decide what varieties are worth growing. The list of plums as offered by nurserymen, and planted by farmers and fruit growers requires cutting and slashing, without mercy. If half, or two-thirds of the varieties once propagated, and old, could be destroyed, root and branch, it would be a great gain. I would like the task of making up a list which must be tabooed. And there ought to be some way of making it a criminal offense to plant any of these outgrown, obsolete varieties.

The fact is that when we had the great plum planting boom—some twenty-five years since—many varieties were propagated, simply upon their local reputation. Many of them were inferior to the best sorts, but they were recommended by men who had had no chance for comparison. These neighborhood selections proved in many cases, like the "smart man" sent to congress, a poor stick when in competition with real merit. It is wasted effort to grow an inferior plum, one of small size or poor quality, when there are better varieties of the same season for every purpose.

If there were any way of getting at the amount of money lost by growing unsalable plums, unsalable chiefly because they are small and poor, it would stack up into a large sum. With the wider knowledge gained by experience, we should have a general thinning out. And nurserymen who are engaged in propagating the plum should shrink their lists instead of expanding them.

I have before me a catalog which lists over thirty varieties of the plum, and even northern growers have been known to offer, as many of the iron-clad hardy natives. These things ought not so to be. Such long lists are confusing to the planter. Some of them are bad, having some weakness which makes them unprofitable, and there is a long list of about even merit, so much so that if we were confined to one we would be really better off, having all that we can desire.

The one quality of difference of season must have attention, for even a very late or very early plum of inferior quality may be valuable upon the ground of season only. But why have a dozen of the same season, many of them inferior?

Among those marked for slaughter in my own grounds I will name Forest Garden, Wolf, Beatty, Maquoketa and Chicasaw. But I will retain, and am very glad that I have them, Haag, Comfort, Surprise, DeSota, Snyder, Wyant, Miner and Damson. It is likely that every plum grower can make out a list as long, or even longer, worthy of slaughter. Let us sacrifice them upon the altar of progress. And let us unitedly appeal to nurserymen to stop propagating, the host of comparatively useless varieties.

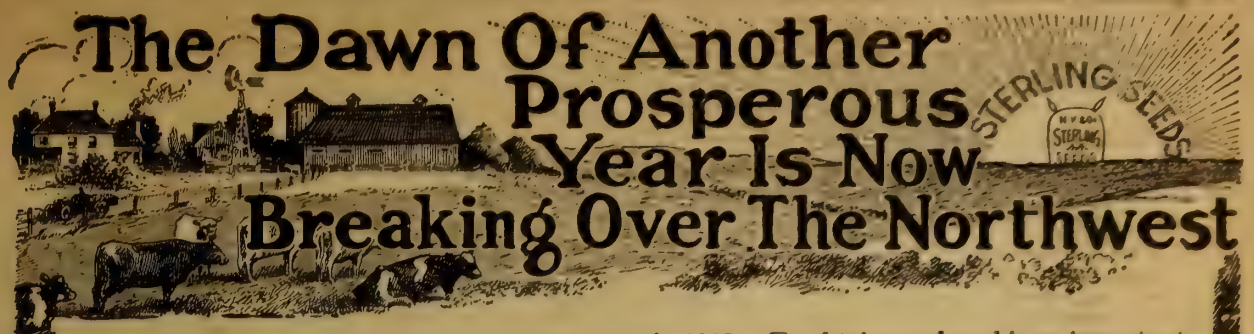
The fact is that there are new sorts coming into view at our experiment stations, of very superior value and if they could be offered in commercial quantities, and the people fully understood their good qualities, not one of the old lists would be retained. This is a startling assertion, but we believe it to be true.

The plums of the future will be high in quality, rich and sweet. They will be very large and perfectly hardy in tree. They will be rich and attractive in color, and they will have the keeping value of the prune. They will either hold to the tree, or if they drop, they will still keep for a week upon the ground without rotting.

In the list named above for destruction I place the Beatty with regret. It is one of the best plums I have ever grown, large, sweet, meaty, but it never bears enough to be profitable. It is great cry and little wool. And why cumber the ground with it, when there are others, of same season, and close to it in quality which will yield five times as much fruit. Kill out the bastards. They have no place in the inheritance of culture which belongs only to the valuable, the true heirs which can richly repay you for room and labor.

M. E. H.

Kansas City has just completed a schoolhouse with a room specially adapted to "social center" uses. The idea is growing. Schoolhouse education should not stop when a boy leaves school. It should spread its gentle influence upon an entire community that is out of school and has little means of intellectual improvement. It is needed to complete the school work. We hear much of "finishing" schools. The only sensible finishing school in America is the social center—a place for brushing up the thoughts and freshening the ideas of the citizens upon whom rest the government of the municipality. It is a great honor to any community to have the social center idea in full operation.



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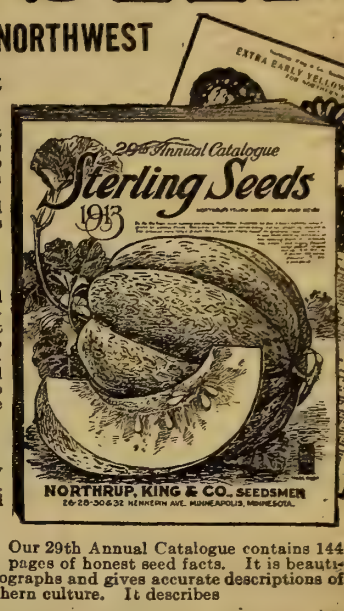

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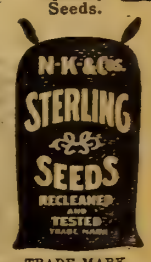

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The Farm Water Supply.

By E. G. Norton.

THERE is more poetry than pleasure in "carrying water from the spring," or any other source of supply, when face to face with the proposition of carrying enough of it for the family washing, the Saturday cleaning and scrubbing, and incidentally, the Saturday night bath supply. With dishes to wash three times a day or more, cream separator to clean, vegetables to wash, cooking, and the hundred and one other demands for water in the daily routine of the home, is it surprising that the housewife seems to see empty water pails before her? A call on Johnnie or Willie brings the invariable complaint, "Didn't I just get a pailful?"—it may have been a couple of hours ago and mother may have carried a dozen pailfuls herself in the meantime to avoid delay. And if father carries in an occasional pail or two, it is with a half-conscious air of having done his duty as a considerate head of the house.

This is a day of labor-saving devices, and there is nothing which will save more labor and give greater satisfaction to the country housewife, and at the same time add so greatly to the comfort of the entire family, as a home water works system.

There are thousands of farm homes where such systems have been installed, and there are thousands more where they no doubt would be adopted were it not that the idea has never taken practical form in the farmer's mind. If it ever did suggest itself it was as a sort of "pipe dream," and with the putting away of the pipe was dismissed as impracticable or altogether too expensive a proposition to be considered seriously.

A home water works equipment is not impracticable for any ordinary farm or village home, and the average farm owner on looking into the subject a little would no doubt be surprised to find at what comparatively light cost such comfort and saving of labor can be accomplished.

Especially is this the case where there is already a gasoline engine on the farm to do the pumping—and there are few farms of any size or pretension nowadays that do not have one of these engines. Even if an engine must be purchased primarily as a part of the house water works equipment, its cost cannot rightly be charged up wholly as a part of the expense for this purpose, as it is used for so many other purposes—sawing wood, cutting and grinding feed, spraying, turning the grindstone, operating the fanning mill, cream separator, churn, washing machine, and every other machine to which power can be applied. Conceding, therefore, that almost every farm either has or will have its engine for general purposes, the cost of an engine is hardly to be considered as a part of the cost of putting in a water works system.

There are three methods by which a farm or village home that is out of reach of a city water works system can be equipped with running water: (1) By gravity from a well or spring on higher ground; (2) By gravity from elevated tanks; (3) By means of a pneumatic tank.

The first method requires conditions rarely found. It depends on having an elevated spring or water source near at hand, from which water can be piped down hill with pipes run into the house up to a height corresponding to the source on the hill. Obeying the natural law that makes water seek its own level, the water will rise in the pipes as high as the level from which it has been secured, and can thus be distributed throughout the house. With this system no pumping whatever is required. This is an ideal method, but the necessary conditions are not often found.

Gravity flow by means of an elevated tank is a system quite commonly used. The tank is often placed in the attic of the house, or in the hay mow, or it may be placed on a tower in the open yard. The use of a tower, however, is apt to prove unsatisfactory, except where the climate is mild enough so that the water will not freeze. Where the tank is placed in the attic, danger from freezing is largely avoided by running the supply pipe along the inner wall of the house; when a tank is located in a hay mow, the pumps are in the stable and the supply pipes are run under ground to the house. As to the size of tank, a 500-gallon capacity should be large enough for a medium-sized farm, for both family and stock. Such a tank could be filled daily by running the gasoline engine from five to ten minutes at practically no cost for fuel. A 500-gallon tank in either galvanized steel or cypress can be bought for about $10.00 or $12.00. If only a house supply, to be located in the attic, is desired, a 150 to 200-gallon size might be large enough and even more desirable, as too great a weight would not be practicable in such a location. One of these smaller tanks could be purchased for about $5.00. A 1,000 to 2,000-gallon tank would cost from $15.00 to $25.00, but with a tank of that size, located so as to avoid trouble in cold weather, a half hour's pumping with a gasoline engine a couple of times a week would furnish water for every possible use on the farm—for both family and stock, and for watering the flowering shrubs, fruit bushes, and the family garden in dry weather—by merely turning a faucet or two. It certainly sounds attractive, doesn't it?

The pneumatic tank system of supplying water for the home, is unquestionably the best and most satisfactory system that has yet been devised, though perhaps costing a little more in the beginning than the elevated tank gravity method. The outfit consists of an air-tight steel tank, a force pump, and piping to connect well to pump, pump to tank, and tank to house pipes. The tank is usually placed in the cellar, or is buried under ground and the pump may be located at the well, in the cellar, or wherever convenient.

Ths principle upon which the pneumatic system is based is air pressure. Water is pumped into the air-tight tank and compresses the air in the tank which exerts a proportionate pressure on the water, forcing it upward in the pipes to the desired height. Some of the advantages are that, owing to the location of the tank in the cellar or under ground, the water is kept cool in summer and does not freeze in winter; also the air in the tank by oxidizing organic matter in the water, purifies the water to a considerable extent.

Any form of power can be used to do the pumping for a pneumatic system—hand power, windmill, gasoline engine, hot air engine, electric motor, etc. It is a safe guess, however, that any one who is interested enough in labor saving to install a water system is not going to do the pumping by hand and is too intelligent to have expensive hired labor to do it. Windmill power requires a tank large enough to hold at least a three day supply; otherwise lack of wind may keep the water system out of commission a good share of the time. In some cases, the electric motor, hydraulic ram, or other special forms of power may be the most practical, but for the average farm, for average conditions, gasoline engine power gives by far the best all-round satisfaction. It can be started in a few seconds and will run all day without any attention whatever. It cannot possibly blow up and there is no danger of fire. It is cheaper than hand labor—if a pint of gasoline costing two cents can be made to do the work it takes a man eight hours to do, the gasoline should be made to do it.

The purpose of this article has not been to give detailed information as to how to install a farm water system, but rather to awaken interest in the subject and direct attention to its practical possibilities.

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Why I Failed as a Farmer.

By "Unsuccessful."

WHEN I came in from Wardner, Idaho, with some money which I had saved by the exercise of much will power, I decided to give way to an impulse which had followed me from boyhood up and become a farmer. I had never farmed a day in my life, in fact I numbered few tillers of the soil among my acquaintances, but I thought my enthusiasm was great enough to carry me over all obstacles.

I made my first blunder when I purchased my land. I knew as little concerning the different grades and qualities of soil as a fishhawk, and while under the influence of a glib-tongued agent I purchased a quarter section which seemed to lay well for sixty-five dollars an acre. I had a little over four thousand dollars saved from my work in the mines, and while to the initiated this sum will appear ridiculously small to start in with as I was starting. I thought it sufficient I paid three thousand down on the land and got three years time on the balance. So my land deal left me a trifle over thirteen hundred with which to purchase both stock and implements.

The man who was my nearest neighbor gave a great deal of advice for which he asked no renumeration. He advised me to go to a sale—there was a large one coming off some ten miles away, and purchase my work horses, brood mares, machinery, and a start of hogs.

I attended the sale and in company with my garrulous neighbor inspected everything that was lined up—from fence posts to horses. That sale was a revelation to me. I purchased a harrow, a lister, a disk harrow and a plow before noon, paying various prices all of which according to my neighbor's opinion were very cheap.

After the free lunch at noon I cut loose on the live stock. Here I found that a man must not wink at the auctioneer unless he means business. My neighbor stayed at my elbow and by his kind assistance I purchased a team of mules, a cow, a team of brood mares, three sows and a few chickens. I paid out nine hundred and eighty dollars at that sale and from every point it was a wretched piece of business.

Being aware of my greenness my neighbor had "fixed" the proprietor of the sale, who in turn had hired a man to bid against me.

It was high time to begin spring work so I hitched my mules and mares to the disk harrow and started out. For the first day or two things went badly, but I soon caught on to team work. I noticed while I was disking that much of the land was of rather a sticky consistency. This was especially noticeable on the slopes. At the time I thought this was because of the strength of the soil, but later in the summer I had my eyes opened by acquiring the information that I had purchased the worst gumbo farm in the county.

I had planned to put sixty acres in corn, eighty acres of the place was in wheat when I bought it, and with this aim in view I started to work. Here I learned that there was different grades of corn, and that the small, uneven grains on the ends of the ear had to be "snubbed" off. My lister was a Tartar. Neither myself nor a capable mechanic whom I hired for a day could persuade it to work. That evening just as the sun went down the lister went into a ditch.

The next morning I shacked to town and purchased a new one which worked. One cannot list deep in gumbo for the subsoiler throws the lister out of the ground, so my corn was not planted at the proper depth. Much of it sprouted and died and I did not get more than half a stand.

I could not complain of my stand of cockleburs however, they came thick and fast on the ridges and in the rows between the corn. I labored from early morning until late at night, but in spite of my efforts, by the time the corn tasseled the burs were in the majority.

I was obliged to hire my wheat cut and the crop barely paid expenses. This left me with sixty acres of corn with which to face my mortgage interest and other expenses.

My three sows had their litters the latter part of May. Knowing nothing of the care of hogs I kept the poor animals in small pens instead of grazing them on green pasture. As a result the pigs became stunted and did not grow well. I became discouraged, believing I would never make a success at hog raising. Instead of feeding a mixed ration of shorts, corn and meat meal along with some green stuff I fed only corn.

From the middle of July until the first of October was a period of knowledge gaining. In my haste to plant my corn I had neglected to put in any forage crop. When the hay I had bought to start in with was fed out I was forced to buy at market prices which were high at the time. If I had sowed a few acres to sugar cane

I would have had an abundance of feed.

I finished shocking my corn about the middle of November and fed all I could spare of it to my hogs. The corn was nubbiny and the hogs runty so it is needless to state that it was a profitless undertaking. I was glad when the mangy brutes were disposed of, they were mangy for I had not dipped or sprayed them.

Having disposed of my produce I settled down for the winter. I read somewhere that a poultry farm was a twin brother to a gold mine. I determined to run some chickens as a side line the following summer. By rigid economy I had kept in a financial condition so that it was possible for me to farm another year.

My courage had returned in a measure with the coming of warm weather, and I went to work with a will. It would seem that my past experience in the matter of feed would have prompted me to put a goodly acreage into sugar cane. Such was not the case.

Instead of sowing cane or kafir corn I depended on a piece of alfalfa (sowed that spring) for my rough feed. Knowing nothing about alfalfa save the glowing advertisements of land suited for it, I thought it would produce four or five heavy cuttings the first year. My patch produced two, both very light.

For lack of feed the following winter and being hard pressed for money I was forced to sell my cattle (with the exception of one old cow that gave bloody milk) at a sacrifice. But I am disclosing facts which should come later.

That spring I put the sixty acres which had been in corn the year before into oats. I reserved the wheat land for corn. My oats were about eight inches tall and doing well when a terrific hail storm struck them, beating them into the ground. The corn was also ruined and had to be replanted.

The hail storm so discouraged me that I did not attempt to do anything more with the land that has been in oats. About this time I also made the discovery that both my mares were barren. But I replanted the corn.

The corn did well in spite of its lateness, the wheat had put new life into the ground—and I began to take heart. After the corn was laid by, I purchased some millet straw from a neighbor and stacked it in a little corral through which the creek ran. I thought I would turn the mares in here and save the trouble of fattening them by the usual methods. Someone had told me that millet straw was very fattening. I went down one day and found the best one lying dead. She had become wadded on the straw and had had no loosening feed to counteract it. That same evening a strange dog got into the barn. I was awakened by the racket and ran out to find that one of the mules had kicked at the dog and badly sprained its own leg. This accident made it impossible for me to do any plowing for wheat.

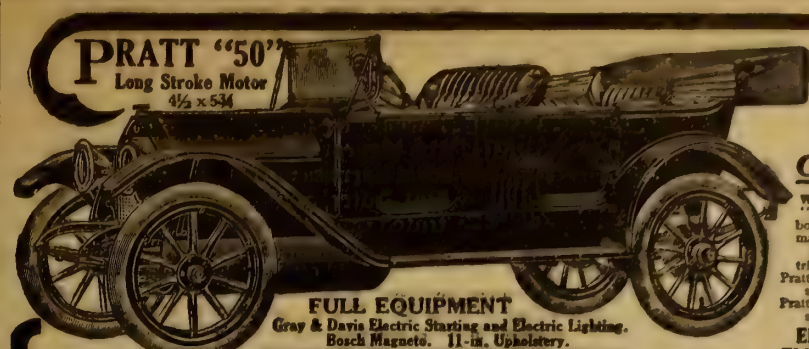
I inherited some money that fall, enough to tide me over and to pay for twenty head of two-year-old steers. I now decided to turn my attention to growing alfalfa extensively. I hired teams and fall plowed the ground. The following winter was unusually severe. My feed soon began to run low; the prices asked by those who had it for sale were exorbitant, so I starved my steers along. They began to die off. I had five head left by spring. Not wishing to be cursed with the remainder of the herd I sold them at a sacrifice. A few acres of rough forage would have made me many dollars.

It would seem that by this time I would have gone to some one for advice, that is some one who could speak with authority, before experimenting further with alfalfa, but I had the matter all figured out for myself.

Instead of having a firm seed bed with an inch or two of pulverized soil on top I loosened the ground as deep as I could. My alfalfa came up in fine shape, but by ten o'clock on the first windy day things did not look so promising. By night my young alfalfa had started on its way for the aurora borealis, traveling at the rate of fifty miles in nothing and three-fifth seconds.

I figured up one night and saw where I stood. I was working for nothing, boarding myself and rapidly losing what money I had.

I traded the 160 for a twenty-acre poultry farm near town. I got the poultry farm clear.



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THE WEALTHY APPLE.

The good people who are so fortunate as to live between the forty-second and forty-third parallels, and who also had the good fortune to plant some Wealthy apple trees some years since are now in this month of November enjoying one of the best apples this world knows anything about. A chance seedling, and grown as Mr. Gideon, its Minnesota father declares from crab seed bought in the east, it has come to be in our days and for great sections of the land, a recognized king in its class. When it was first introduced, some forty years ago, it became at once popular. It was first lauded for its hardiness of tree.

But it was not long before its merits as a superior apple, in appearance and quality, and quality was recognized. It was found to compete, successfully, with other apples of its season in the markets of the world.

This fact increased its range immensely, and it is now grown in great quantities, in the apple regions of the east.

Its hardiness of tree makes it peculiarly valuable in the northwest. But while it is safe to plant in south Minnesota it cannot be carried much farther north. The tree will not stand like the Hibernal, which is the standard of hardiness.

The range of its profitable culture is as wide as the continent, and it extends north and south from Minnesota to south Missouri. On the southern limit it becomes a late summer, or early fall fruit, while at its northern limit it is a winter apple.

But in the region where it is most largely grown the central belt of its zone, where the tree thrives with the least danger of injury, it is only a late fall apple, coming into use in September and lasting until Thanksgiving. It was seriously proposed some years ago that in order to raise a monument fund for Mr. Gideon, the originator, who died in poverty, each person should contribute one cent for every Wealthy apple tree he owned. And it is our understanding that quite a sum of money was so raised. Of course, the range of the effort was very limited. But if this had been done all over the land, enough money had been secured to build him a monument taller than Washington's, and as costly as the Taj Mahal.

Millions of people are satisfied with it as an eating apple. And while there may be some very particular people who find some apples with a choicer flavor and grain for the table, it is accepted by all as a cooking apple unexcelled.

But we have come to these conclusions slowly. Even in places where this apple has been grown for over thirty years it has only been as one of the varieties. Others have been grown alongside, and we have been constantly reaching out and testing every new thing, half expecting that pretty soon the Wealthy would go to the discard, just as soon as fixed upon something better. But somehow the apple possessing all the valuable traits of the Wealthy, and in a greater degree did not appear. It has not appeared yet. And the public, the apple growing public, is settling down to the conviction that in the Wealthy apple we have a fruit such as is produced only once in several hundred years.

The coming years may bring us something better than the Wealthy, let us hope so, but meanwhile let us plant it largely.

A great apple grower, Elmer Reeves of Iowa, a man who has given his life to the fruit business says this: "I have come to the point where I urge the people of my section to grow the Wealthy as a commercial apple. I tell them to plant it largely as the variety offering at both in growth and sale."

This is a high recommendation. And the return of the people to the Wealthy, is a sign of the times. It reminds one of the man who traveled all over the world to find some right people for friends. And he came back at last satisfied that his old neighbors were the best of all.

WHO STEALS THE CHICKENS?

To the Editor of The Homestead:

I thought perhaps some of your readers might be interested in our experience with chicken thieves or rather poultry thieves, as they will take anything they can get whether it be chickens, ducks or turkeys and anything from eggs to adult fowls. They are experts at finding turkey nests and if the turkey hen happens to be sitting, turkey, eggs and all disappear. They are especially eager to get any kind of pure-bred poultry, and as they could hardly get old fowls without being found out they take them when they are about fry size and then by the time they are mature the owners would not know them. The better grade poultry one keeps the more apt they are to lose the chicks.

This year we told some of our neighbors that we were going to mark our chicks and just as soon as we had a nice lot of youngsters on hand here came one of the party for no other purpose than to find out how we marked our chicks and not being told she picked up some and examined them. She did the same at a neighbors who has a fine flock of Barred Plymouth Rocks, having bought eggs at $5.00 per fifteen and paid as much as $10 for a male bird to head one of the pens. She loses a good share of her chicks every year and she is sure they are stolen and also who gets them, but they buy a few eggs of her or someone else who has that kind for sham so she cannot easily tell the chicks.

We have Rhode Island Reds and have been losing two to six of our best ones now and then since the oldest began to show their quality. We have locks on the houses but it is next to impossible to keep every coop locked. The old lady who hunts for the places of attack is past seventy years old and a great many people would pass her inquisitiveness for childishness. Her son does the stealing. She is always asking where a certain size roost, if people know how many they have, etc. One day a relative of hers, who, so far as anyone knows is above reproach, was coming to visit us, and she came too, and was soon telling about several people who had had chickens stolen. Only the night before we had heard a noise exactly like a buggy turning around but as it was raining quite hard we did not investigate. The next morning four of our best cockerels and two pullets were missing and there were about half a dozen very weak, strange chicks in the coop, everyone nearly choked with catarrah. We hastened for remedies to treat the poor little things but forgot to count them. They were not there the next night.

Once before we missed two chickens and found a good size pullet that does not resemble our stock at all. Have since found two good-for-nothing cockerels that anyone who is not very well acquainted with our flock could pick out. The feathers look dead and their heads are different. The old lady was probing to see if we knew but we played innocent for awhile and she seemed to get a great deal of enjoyment out of it all. We have been caponizing most of our cockerels this year and after awhile we told her about it, and that we had missed some. She nearly fainted and did not entirely recover all day, but of course she had to stay as our other visitor ha come for all day.

She told of another party who had lost nearly all his Rhode Island Reds and sold the rest and I suppose we have a few of his. Also she said she bought some eggs that hatched fine but the chicks took the roup which I think accounts for the last donation. They have everything comfortable, have their automobile and more fine clothes than most people in this neighborhood and folks often wondered how they could do it. A man from another town nearly twenty miles away once sent word to a banker in our town to know where a certain man lived as he came there so early and so often with such big loads of chickens. They will take things in daytime if they can find all the folks away, and always want to know where incubators are set and innumerable questions that no one else ever asks. We let them know that we knew who got our chicks and they have been very much worried about something, so we heard, and we do not expect to be bothered again soon. However, we will try to make our coops and houses as safe as possible.

A Kansas Subscriber.

GROWING BETTER MARKET HAY.

Never has there been a better demand for first-class hay and seldom, according to the advices of market experts, has the supply been of as poor quality. Buyers want properly cured hay, well baled and free from weeds. The practice of leaving meadows in grass until long after the yield has fallen below the average is mainly responsible for the excessive proportion of weeds while late cutting generally increases the proportion of "hard" and indigestible forage. Curing is often spoiled by bad weather conditions, and, of course, is not so easily controlled, but a little care at the right time often does wonders to keep a batch of hay nice and bright. A bulletin which is being sent out by the United States Department of Agriculture offers a number of valuable suggestions upon the production of better hay, and may be had by writing to the secretary of agriculture.

You needn't expect any more eggs till the warm days of spring, from the hens that have their combs frozen; so keep them in out of these severe mornings, and see that they have comfortable quarters at night.

A Million More for Corn.

The crop of the corn belt could be increased a million dollars a year if all the seed that went into the ground was good seed. A valuable corn book illustrating this fact more fully is put out by the National Seed Tester Company, 1723 Locust St., Des Moines, Ia. See advertisement on page 14.

PARCEL POST A BOON TO FARMERS.

(Continued from page 3.)

vent breakage is only five cents when shipment is made from a patron of any rural route to a resident of the town or city where this rural route originates. The rate for each subsequent pound is only one cent, so that eleven dozen eggs weighing eleven pounds may be sent by any farmer on a rural free delivery line to any resident of the adjoining town or city for fifteen cents. A small family uses four pounds of butter a week. Postage is only eight cents. Creamery butter costs forty cents a pound at retail, or $1.60 for four pounds. Country butter is worth today at the farm about twenty-five cents, four pounds therefore cost $1. With postage of eight cents the farmer is able to secure a higher price for his butter than was formerly secured by hauling it in and disposing of it in large quantities to the town or city middleman, while the small family consumer saves fifty-two cents each week on the one item of butter alone. The shipment of farm produce in England and other foreign countries, where the parcel post has been in effect for many years, is so extensive that farmers are in the habit of advertising produce bargains in the daily papers, shipping direct to their town and city consumers. The shipment of eggs by parcel post in England is carried on so extensively that in the postoffices in large cities special departments have been assigned to this class of matter. Preserved fruits, jams, honey and all manner of small farm produce are advertised and shipped by the farmer to the city consumer, who simply writes a letter ordering what he wants and enclosing the price and postage, the postman delivering the goods to him the next day. The breakage of eggs in England is extremely small. The government sends out printed instructions how to pack them, and pasteboard boxes made after those regulations are sold everywhere. A result of the egg and butter trade by mail in England and Germany is that the profit of the produce dealer, grocer and other middlemen is cut out and the farmer gets a little more for his goods than he would in the market, and the consumer gets them for much less. A London paper of recent date told how, when eggs were selling in the London market for twenty-five cents, a dozen consumers were getting them by mail for twenty cents.

The contention that the parcel post, while being of great benefit to the farmer, would work injury to the country merchant has been offset by the argument that by means of the new system the country merchant's business will be increased rather than decreased, owing to his ability to make quick and prompt shipments to his country customers at a lower postage rate than the further distant city merchant can On this point an official of the department of agriculture has this to say:

Rural telephones have practically spread all over the entire country and they will be used in conjunction with the parcel post to the advantage of both farmer and country merchant. The housewife, for example, finds that she is out of sugar. She steps to her phone and orders it sent by parcel post. She will not order it from a city when the nearest country merchant can send it more quickly. If the farmer breaks a harrow or a part of some farm equipment, it will not be necessary for him to hitch up and drive to town; he will merely step to his phone and order the new part sent by "P. P." The time saved will more than compensate him for his outlay of stamps. I expect to see the country merchants advertising free delivery in their local papers, just as their city brothers do. They will use the parcel post as their delivery wagons.

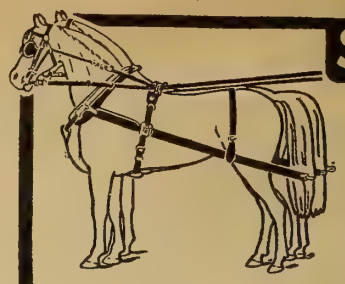
The rates under the new parcel post depend upon the distance, maps being made for practically every one of the postoffices. The rates are dependent upon the distance a package is shipped, the official table issued by the postoffice department being as follows:

	First lb.	Each add'l lb.	11 lbs.
Rural route and city delivery	$0.05	$0.01	$0.15
50-mile zone	.05	.03	.35
150-mile zone	.06	.04	.46
300-mile zone	.07	.05	.57
600-mile zone	.08	.06	.68
1,000-mile zone	.09	.07	.79
1,400-mile zone	.10	.09	1.00
1,800-mile zone	.11	.10	1.11
Over 1,800 miles	.12	.12	1.32

Parcel post and express charges compared on 5-pound package:

Zone distance—	Parcel post rate.	Present express rate.
City and rural route	$0.09	$0.25
50 miles	.17	.25
150 miles	.22	.35
300 miles	.27	.45
600 miles	.32	.50
1,000 miles	.37	.60
1,400 miles	.46	.75
1,800 miles	.51	.75
Over 1,800 miles	.60	.80

This zone system is the one feature of the existing law which it is believed disposes entirely of the opposition of the country merchant inasmuch as he not only has the advantage of quicker service but also the advantage of a lesser rate of postage than the mail order houses or the department stores in the larger cities at a longer distance.



SAVE 25 TO 50% ON HARNESS $25.00 FREIGHT PREPAID

For $25.00 we offer our Leader No. 53—1½ inch Team Harness set down at your railroad station. This harness, designed and made for durability and service is the biggest bargain we have to offer. While the price is exceptionally low for a harness of this nature, quality has not been sacrificed on that account. But, "after quality, it's the price that counts." In the harness here illustrated only the very best grade of Oak Tanned Leather has been used in its manufacture and our money-back guarantee stands behind every sale.

We issue a 100-page, completely illustrated catalog, jammed full of just such bargains as shown in the illustration. Just drop us a card and we will send you by return mail one of these handsome books. We manufacture all our own harness in our spacious factory at Waterloo. This alone accounts for the rock bottom prices we quote—no jobber, salesmen, agents or brokers to split up the profit—just the manufacturing cost with one small profit added. This accounts for the fact that we are absolutely the largest manufacturers of harness and leather goods, selling direct from factory to user.

A comparison of quality and prices will surprise you. Write today to

WESTERN HARNESS & SUPPLY CO., 613 Main Street, WATERLOO, IOWA

Handling Manure Economically.

By W. F. Purdue.

VERY few farmers have manure sheds in which to house their stable manure, consequently it must either be drawn directly to the fields or piled back of the barns. Where manure is piled in the open air for several months there is a loss by leaching of nearly 50 per cent. This fact has been ascertained by careful experiments. There is also some loss by the heating of the manure in the piles, when the nitrogen is turned to ammonia and thus it passes into the air.

The best way to avoid this waste of valuable elements of fertility is to haul all stable manure direct to the fields as produced. Many progressive farmers long since proved to their satisfaction that this system of spreading manure from stables enables them to handle it very economically. They save much time in the course of a year by this system of handling. It requires no more time to fork the manure from the stables into a manure spreader or wagon box than it does to throw it into piles back of the buildings, where it lies and wastes away until one gets ready to handle it a second time and haul to the fields. Those who have adopted the former system of handling their manure are firmly of the opinion that the only time during the year when there is any excuse for letting any manure accumulate around the barns is during the busiest part of summer, and this is seldom necessary for more than a few days at a time.

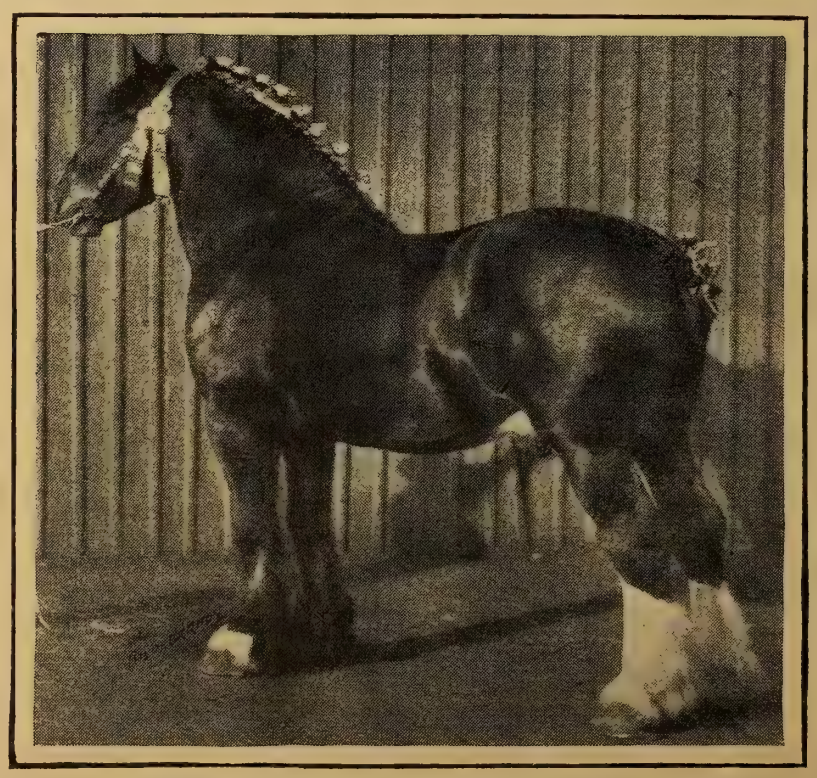
Some farmers practice this system of handling their manure in summer, but not in winter, because of an idea they have that there is a great loss by washing or evaporation when manure is spread over the fields in winter. But this is far from being true except in a few exceptional cases. If the land is very hilly or if it is covered with a thick coating of ice at the time the manure is spread, some loss by washing may be sustained. Otherwise, there will be no loss from this source. As to loss by evaporation, it can be stated emphatically that fertility cannot evaporate when spread on the soil. Nitrogen can escape into the air only when liberated by heating, as it escapes when manure heats in the pile. When the manure is spread thinly and uniformly over a field no heating process can take place. And the potash and phosphoric acid contained in manure are mineral elements and, consequently, they cannot evaporate.

One who has never tried the plan of spreading all manure directly from the stables does not know how satisfactory it is to have most of the manure hauled out when spring arrives. One of the spring jobs that is dreaded by many farmers is the laborious work of moving several tons of manure that have accumulated back of the barns and in the feed lots all winter. The work of getting the spring crops in on time may be very urgent, consequently hauling manure for several weeks is work that is not relished at that time. Some of that in and around the barns may be hauled out while other accumulations in the lots and fields are untouched. This is evidenced by the fact that in a summer drive through the country one can notice many corn and oats fields in which the farmer has plowed around old straw stacks rather than take the time to distribute them over the fields before the crops were put in. The soil may be crying for this fertility and these heaps also cause to remain idle large areas that would produce crops worth many dollars. Possibly some of the straw piles were not sufficiently rotted to be distributed over the fields much before spring. But here is the point: The man who keeps all manure from the stables hauled out as made will not be so swamped with work in the spring that he cannot spare the time to get his old straw piles distributed before he puts in his crops.

The modern manure spreader plays an important part in the economical handling of manure. Hundreds of farmers have proved this to their complete satisfaction. The manure spreader increases the value of manure by spreading it thinly and uniformly, thus bringing every particle of manure into contact with soil particles, and then the spreader enables a farmer to move his manure to the fields quickly. Handling manure entirely by hand is slow and laborious work. The spreader eliminates about one-half of this work. It will not load itself, but it will unload itself in from three to ten minutes while the driver rests after the exertion of loading the spreader.

The owner of a manure spreader finds it entirely feasible to haul all his manure directly from the stables to the fields every month in the year. Many farmers who do not have a load of manure per day keep their spreader standing back of the barn and throw all manure into it when removed from the stalls, then when there is a full load it is the work of but few minutes to hitch a team to the spreader and drive to some field where there is a need of fertilizing elements. Except in extreme northern portions of our country where deep snows may remain on the ground for long periods, there are few times in the course of a year when this system cannot be practiced regularly. During these times a sled and wagon box can be used for hauling the manure until the spreader can again be put to work.

By all means get the manure onto the land as speedily as possible. Should there be any waste of fertilizing elements after the manure is spread—and there will be little, if any, such waste—this waste will not be



International grand champion Shire stallion, Lockinge Hengist, imported and owned by Trumans' Pioneer Stud Farm, Bushnell, Ill. Four years old and weighs 2,320 pounds. See the advertisement on page 47.

so great as would occur if the manure were piled in the open air back of the barns where it will demand your attention next spring along with the other spring work.

WINTER PROTECTION OF THE PLANTS.

There is a great section of country, reaching from the forty-first parallel of latitude northward where winter protection is needed for many of the hardy, and half-hardy perennial plants. Constant and heavy losses are incurred yearly, for lack of the needed protection. One thing which tends to neglect in giving the suitable protection to this class of plants, is the fact that our winter seasons are variable, and the amount of injury depends upon weather conditions. An open, dry winter, with frequent changes of frost and thaws, is far more injurious than a wet and steadily cold season. Gardeners are lulled to a false security by seeing the roots go safely through a hard winter and then they are correspondingly surprised when a mild winter works havoc among their garden pets. The principle to be observed is this: Protect from frequent changes of heat and frost.

A moment's reflection shows that protection enough to keep the roots steadily frozen is what is needed, and all that is needed. There is no harm in the freezing, but the frequent thawing out, and the drying winds work ruin.

There are some hardy perennials which need absolutely no protection. The familiar rhubarb and asparagus are examples. Roots like salsify and parsnips to be left in the earth until spring are safe, if the winter is steady and cold enough. But the untimely efforts of spring to usurp winter's place along in January and February are disastrous to them, and indicate the need of the inch of mulching which will save them by retaining the frost in the surface of the soil.

Among the ornamental perennials, the dicentra, or bleeding heart, is an example of the ironclad roots, standing unscathed in all seasons and changes. The peony is another well-known ironclad. The hollyhock comes very nearly up to this standard of hardiness, but it is safer to give this plant protection. All the list of lilies and pinks, including pansies, need the mulching to retain frost. But care must be used in the application. Too much is dangerous. Many fine plants are ruined every winter, by a heavy mulching, which rots them.

Just enough dry leaves to cover the plants well, and held in place by weights just sufficient to retain them in the fiercest gales, is the safe application. In the case of pansies, put the leaves loosely between the plants—by hand. Then, after they are covered so as to conceal all but the top leaves put a wire screen over them, not resting upon the plants, but suspended from the edges. It should be held in this way, to prevent snow settling down, and forming a compact mass. Do this carefully and your pansies will come through the most severe winter and reward you with abundance of bloom in early spring.

The whole family of the iris is safe to go through an ordinary winter with no protection, except in the case of the Japanese sorts. We have often lost them for lack of the cheap and easily applied mulch.

It is best to wrap the flowering almond and forsythia in burlap than to bend them down for an earth cover. If you put on two layers it will keep out the drying winds, and the hot suns, which do the damage. For all the finer roses, the best rule is to treat them exactly as you do the tender grapes, lay them down and give them a blanket of earth. There are a few of the extra hardy kinds which do not need it, but if you would enjoy next summer all the glory and beauty of Gen. Jack, Furst, Clio, Helen Gould, Dorothy Perkins Wilder, Meyer and a dozen others, you must protect. It is not really necessary to use earth. But that is the cheapest and handiest material and just as good as anything. As a rule the most of them are safe if laid down and covered with leaves, and then a heavy rug or oilcloth placed over them.

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—on the Plows, Harrows, Discs and Drills that thousands of farmers swear by. I sell the famous high quality **Monmouth line** and I save you big money on the machine you want. I sell direct from factory. You keep the middlemen's profits right in your own pocket.

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at my risk—and I'll even pay the freight. If it is not perfectly satisfactory to you, and the biggest value for your money—send it back at my expense and the trial won't cost you a dollar. Read some of the letters in this book from my customers. And be sure to read how **Monmouth** implements are made. Whether you want a Plow, Cultivator, Disc, Spike Tooth Harrow, Drill, Gate, Farm Wagon, Gasoline Engine, Mower or Rake, I'll sell it

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News of the Sale Ring.

Stemen & Son's Duroc Sale.

On Wednesday, December 18th, E. C. Stemen & Son sold at their farm sixty great Duroc sows at an average of $53 per head. While it was a good, even sale they did not bring near their real value and it was a bargain day event. L. E. Huffine topped the sale on No. 55, the Highland King gilt that has won so many prizes on the state fair circuits this year. She is sure a good one, as was her sister, No. 54, she going to J. Chapman, Woodburn, Ind., at $172.50. Cols. H. L. Igleheart and W. H. Irwin conducted the sale in a most satisfactory manner. Below is a list of most of the buyers and prices paid:

1. F. J. Rupert, Spencerville, O.$ 69
2. F. J. Rupert..... 50
3. E. A. Herrod, Lima, Ohio..... 49
4. J. Chapman, Woodburn, Ind... 52
5. Chas. Davis, Spencerville, Ohio 51
6. J. Chapman 45
7. J. W. Storm, Creston, Ohio.... 53
8. Wright & Micks, Ada, Ohio.... 48
9. Wright & Micks..... 42
11. J. W. Storm..... 36
12. E. G. Crampton, Ransom, Mich. 37
13. C. C. Baber, Elida, Ohio..... 36
14. Bob Ewing, New Hampshire, Ohio 59
15. Bob Ewing 39
16. Chas. Evans, & Son, Gower, O. 44
17. Herr & Miller, Elida, Ohio..... 41
18. Herr & Miller 33
19. Herr & Miller..... 70
20. Herr & Miller..... 47
21. Smith & Rogers, Springfield, O. 39
22. S. F. Hasnes, Celina, Ohio.... 41
24. John F. Scott, Alexander, Ohio 48
25. J. W. Storm, Seville, Ohio..... 41
27. E. A. Harrod, Lima, Ohio..... 36
28. Dr. Herr & Miller..... 40
29. Dr. Herr & Miller..... 51
31. Dr. Herr & Miller..... 45
32. P. J. Fosse, St. Cloud, Minn.... 52
35. E. S. Mayes, Jr., Springfield, Ky. 50.00
36. Jess Andrews, West Point, Ind. 40
37. W. P. Penry, Radnor, Ohio.... 40
38. Wright & Weeks, Ada, Ohio... 42
39. Dr. Herr & Miller..... 52
40. F. Bieth & Son, Joliet, Ill..... 60
41. J. Chapman, Woodburn, Ind... 41
43. John Phillips, Delphos, Ohio... 36
44. W. P. Penry, Radnor, Ohio..... 41
45. E. A. Harrod..... 50
49. G. F. Hasus, Celina, Ohio..... 33
50. Eli Diller, Bluffton, Ohio..... 80
51. John Scheonover, Kenton, Ohio 50
52. J. Chapman 41
53. J. W. Storm..... 51
54. J. Chapman 172
55. L. E. Huffine, Van Wert, Ohio. 300
Extra. Bob Ewing, New Hampshire, Ohio 33

McKelvie & Son's Sale of Red Polls.

The dispersion sale of Red Polled cattle that was made by S. McKelvie & Son, Fairfield, Neb., on December 20th, was well attended and a very satisfactory sale was made. However, prices ruled a little too conservative in most cases. The southern buyers, those from Kansas and Missouri, were the support of the sale and the heaviest buyers. Practically all the veteran breeders of Nebraska were on hand, but they bought very sparingly, owing partly to the fact that rough feed in many sections of Nebraska is very scarce. It is the opinion of the writer that these same cattle would have sold for at least 25 per cent more money at some of the Missouri river points. However, what is the loss of the sellers is undoubtedly the gain of the buyers, and in this particular case one of the great herds of the entire country, builded by master stockmen, has been dispersed and they have gone into new hands and must of necessity result in much good to the breed and to the cause of the dual-purpose cattle in general. Touching on the point of dual-purpose cattle, the writer wishes to say that, while it sounds good to talk about them, and in this breed they undoubtedly exist to a greater degree than in any other, yet it is a fact that when it comes to selling them the breeders, the old ones as well as the new ones, will persistently bid on the beefy ones, and the really dual-purpose ones are sold at a sacrifice as compared with the real merits of the two. A clear example of this was shown in this sale when the splendid bull, Luther, the magnificent two-year-old herd bull, a former champion at the Nebraska State Fair, and without question one of the greatest dual-purpose types of bull we have seen in a long time, was allowed to sell, or rather forced to sell at the low price of $190, when at the ringside sat any number of veteran breeders who positively could use this bull to advantage. The same was true of Luke, Lot 9 in the sale, who sold for $127.50 when really less valuable prospects, but greatest flesh carriers, sold for considerably more money. A great many breeders complain that the breed is slowly drifting toward a beefier type of cattle, and if any one is to blame for this condition it is certainly the buyers who cannot discriminate between the ones that fill the eye and the ones that fill the pail. Colonel Callahan conducted the sale in a very efficient manner, working for the last dollar, and really much of the total is due his untiring efforts. Those selling for $100 or more are listed:

Pansy, calved 1902; T. G. Mc Kinley, Junction City, Kan....	112.50
Lady, calved 1903; T. C. Dungan, Oregon, Mo.	125.00
Waverly Belle, calved 1904; T. C. Dungan	147.50
Thymia, calved 1906; T. G. Mc Kinley	125.00
Ethel, calved 1907; H. B. Francisco, Hastings, Neb.....	117.50
Pet, calved 1908; T. G. McKinley	130.00
Waverly Princess, calved 1909; T. C. Dungan.....	100.00
Nina 3d, calved 1909; C. B. Thompson, Beatrice, Neb.....	145.00
Mattie, calved 1910; C. B. Thompson	130.00
Bess, calved 1910; T. G. Mc Kinley	100.00
Bon Bon, calved 1910; I. H. Ranson, Clay Center, Neb....	150.00
Blanche, calved 1910; T. G. Mc Kinley	115.00
Rosette, calved 1910; W. R. Freeland, Effingham, Kan....	120.00
Violet, calved 1910; Oscar Peterson, Ohiowa, Neb.....	107.50
Hazel, calved 1910; W. R. Freeland	125.00
Mae, calved 1910; J. E. Rowe, Stockham, Neb.	125.00
Susie, calved 1910; Oscar Peterson	112.50
Lucile, calved 1911; T. G. McKinley	115.00
Rosa, calved 1911; T. C. Dungan	100.00
Prairie Blossom, calved 1911; T. C. Dungan	100.00
Blossom, calved 1911; T. C. Dungan	100.00
Panora, calved 1911; T. C. Dungan	100.00
Purity, calved 1911; T. C. Dungan	100.00
BULLS.	
Luther, calved 1910; T. C. Dungan	190.00
Maxwell, calved 1909; Monmouth Broderick, Fairfield, Neb.....	100.00
Dave, calved 1908; I. H. Ranson	100.00
Billy, calved 1911; T. C. Dungan	130.00
Eph, calved 1911; C. R. Anthony, Lexington, Neb.	125.00
Wesley, calved 1911; J. T. Rathbun, Fairbury, Neb.....	132.50
Excell, calved 1912; T. C. Dungan	157.50
Nimrod, calved 1912; Henry Kovar, Wilber, Neb.....	125.00
Luke, calved 1912; Mike Saathoff, Glenville, Neb.....	127.50
SUMMARY.	
35 females ....$3,650.00; aver...$104.28	
9 bulls ..... 1,187.50; aver... 131.93	
44 head ..... 4,837.50; aver... 109.94	

E. S. Mayes, Jr.'s Defender Sale.

On Saturday, December 21, 1912, E. S. Mayes, Jr., Springfield, Ky., offered a good bunch of high-class, high-bred Durocs at auction. Twenty-five sows were sold bred to Defender. They were the attractions of the sale and were picked up quick at good prices. These twenty-five sows bred to Defender averaged better than $138 per head. Colonels Igleheart, Reppert, Irwin and Wheeler did the selling. A large representative crowd of breeders were present and mail bids were much in evidence. Below is a list of buyers and prices. The following twenty-five sows were bred to Defender:

1. H. E. Browning, Hersman, Ill. $192.50
2. Smith & Rogers, Springfield, Ohio 525.00
3. Chas. F. Ogden, Anchorage, Ky. 250.00
4. G. H. Ruple, Buena Vista, Ky. 87.50
5. J. P. & W. H. Peacock, Cockerin, Ga. 135.00
6. Henry Thomas, La Fountain, Ind. 97.00
7. McKee Bros., Versailles, Ky. 105.00
8. Chas. Druery, Irvington, Ky. 105.00
9. G. F. Long, Holland, Ky.... 102.50
11. J. R. Wade, Bloomburg, Pa. 110.00
12. J. W. Storm, Seville, Ohio... 187.50
13. Gillock & Miller, Nashville, Tenn. 135.00
14. Geo. W. McKnight, Howel, Ky. 135.00
15. F. Bieth & Son, Joliet, Ill.. 87.50
16. W. F. Gillespi, Bethgage, Tenn. 117.00
17. Sam Sullivan, Bloomfield, Ky. 95.00
18. Norton Garth, Trenton, Ky. 130.00
19. Unger & Alter, Forrest, Ind. 108.00
20. A. G. Borrow, New Iberia, La. 100.00
21. G. F. Long..... 109.00
22. A. L. Ticer, Horab, Okla.... 75.00
23. J. Downing 92.50
24. Jess Chilton, Campbellsburg, Ky. 100.00
25. J. H. Williams, Pembroke, Ky. 180.00
Extra. Dr. Stanberry, New Port, Tenn. 84.00
26. Boar, Horris & Daniels, Morganfield, Ky. 150.00
27. Boar, McKee Bros., Versailles, Ky. 62.00
29. Boar, Miller & LaRue, Hodginsville, Ky. 68.00
31. Elmer Commings, Emerson, Ind. 45.00
32. J. C. Holloway, Nicholsville, Ky. 53.00
35. P. F. Sullivan, Burbank, S. D. 42.50
36. J. O. Duncan, Lebanon, Ky. 102.00

A CHAMPION CHESTER WHITE HOG. SEE READING NOTICE ON PAGE 38.

We hear much about warming water for poultry in winter, but this can be very easily overdone. Chickens do not relish warm water, and it is not at all necessary. Their drinking water simply should have the ice chill taken from it, and a small quantity of warm water added occasionally, to keep it at the proper temperature.

June Milkings all the year round

Most anybody can make a dairy pay in springtime, but it takes science to make it equally profitable in the drought of August and the zero weather of mid-winter. We know what we are talking about because we used to be cattle men ourselves. And we found out how to make June forage last all year and how to get June milkings in mid-winter. That's why we went into the Silo business. The

INDIANA SILO

has revolutionized the live stock industry. It is the practical product of practical farmers. When we made the first Indiana Silo ten years ago we made a better silo than anybody had ever made before. We sold it before it was finished and then made another even better than the first. Altogether we built 50 Indiana Silos that year.

Now we have four great factories with a capacity of 150 Indiana Silos a day. We are the largest silo manufacturers in the world. We have our own salaried timber experts at the mills who reject every piece of material that fails to come up to the standard of perfection that has made the Indiana Silo famous. We have built and sold more than 25,000 Indiana Silos and the first one is still standing and giving perfect satisfaction.

Let us build an Indiana Silo to your order now We will make delivery when you want it.

IF you are farming for profit, we want to send you our catalogue and a free copy of the book "Silo Profits," which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. Write for it today and let us send you the name of our representative in your locality.

Remember you don't need cash to buy an Indiana Silo—"It buys itself."

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Factories:		
Anderson, Ind.	Des Moines, Ia.	Kansas City, Mo.
321 Union Bldg.	321 Indiana Bldg.	321 Silo Bldg.

For irrigation or any other of a hundred farm uses—

the particular farmer wears a pair of good, comfortable, water-tight rubber boots—he believes in safe-guarding his health and increasing his efficiency as well as making his work more comfortable and enjoyable. Farmers the land over have come to recognize

WOONSOCKET
ELEPHANT HEAD
RUBBER BOOTS

as the perfect protection for the farmer's feet.

Made from the toughest rubber, "Elephant Heads" are wonderfully long-wearing—they're built for hard usage, being triply reinforced at all wearing points. Lined with fine wool net—this means warm, dry feet and freedom from colds and rheumatism. "Elephant Heads" won't tire the feet—because they *do* fit. North, South, East or West you'll find the farmer who wants the greatest amount of rubber boot wear, comfort and warmth, swears by "Elephant Heads"—all sizes, shapes and lengths. Your dealer will show you a pair today.

WOONSOCKET RUBBER CO.
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DAIRY

GOOD FEEDING NECESSARY TO PROFITABLE DAIRYING.

To induce his cows to economically produce large quantities of milk and butter fat the dairyman must feed liberally and provide his herd with all of the necessary cow comforts. The art of feeding and care taking should be learned before the dairy farmer launches out into the breeding business.

These were the exclusive statements made by Fred H. Scribner, of the United States Dairy Division, before the forty-first annual meeting of the Wisconsin Dairymen's Association, which was recently held in Ashland. Previous to accepting the appointment with the federal department, Mr. Scribner was a popular Wisconsin farmers' institute conductor and prominent as a dairyman and breeder of dairy animals.

In his travels he has seen repeated failures where men have started in to breed up a dairy herd who have had little knowledge of feeds and feeding. One farmer, with whom he is acquainted has by the continued us of pure-bred sires graded up a herd until they are nearly pure bred, but nevertheless are about the scrubbiest lot of cattle this noted expert has ever seen and simply because the owner has neglected to properly feed his herd. It should be the aim of every dairyman, Mr. Scribner declared, to raise all or much of his roughage. This is the foundation on which an economical ration is built. In planning a ration it is important to have it bulky and yet as free as possible from indigestible material. Corn, clover and alfalfa are particularly well adapted and combine in themselves to almost a perfectly balanced ration. Because they carry in them that for which he pays high prices for the protein, the dairyman should plan to grow plenty of clover and, if possible, alfalfa. The corn crop is, of course, the one from which is secured the largest amount of feed per acre and that which all stock eat with a relish. With the modern way of handling corn, through the silo, the dairyman may preserve it in all its freshness and store its succulence in such a way as to be able to utilize it throughout the year, thereby approximating summer conditions during the winter months.

For the reason that there are so many things to be taken into consideration, the grain ration is the most complicated to arrange and in the selection of grain feeds the good judgment of the feeder shows itself. He must have a knowledge of the analysis of feeds, know something of their digestibility as well as palatabili and then consider the likes and dislikes of his cows, for they will do best on what they like best. In arranging a ration it is not always best to complete it of the grains grown on the farm. Oftentimes the use of these would make the ration too expensive whereas by exchanging for other good feeds on the market the cost of butter fat could be lessened two or three cents per pound.

As a rule the bulkier the grain ration the better, for it gives more chance for the juices of the stomach to penetrate and makes the digestion more complete. For example, the feeding of corn and cob meal has been found to give as good results as does the feeding of corn meal. There is no particular virtue in the cob, but because of its woody, fibrous nature, it lightens the feed.

There is no hard and fast rule that can be laid down for the amount of feed to be fed daily. The rule that now prevails calls for the feeding of one pound of grain for each three and one-half or four pounds of milk, testing from 3 to 3.5 per cent fat and cows giving milk testing around five per cent fat are allowed about one pound of grain to every three pounds of milk they produce. The large cow naturally would eat a larger per cent of roughage while the smaller animal does not consume as much roughage, but requires a larger proportion of grain feeds. Accordingly the cow giving sixty pounds of 3 per cent milk should receive twenty pounds of grain per day. This, however, is getting very close to the danger line and the cow being fed this amount should be watched closely.

Mr. Scribner believes in liberal feeding, for it not only develops and brings out the best there is in a cow, but is economical as well. Many dairymen feed but little more than a maintenance ration and thus make it impossible to realize a profit from their dairy, for it is only in feeding more than a maintenance ration that a dairyman is paid for his trouble of feeding and caring for his herd.

TO SUCCEED IN DAIRYING.

That dairymen may, with a minimum expenditure of time and money, produce milk and cream of the most palatable flavor is the opinion of Prof. C. E. Lee, of the Wisconsin Dairy School.

To be able to market a product which will be in strong demand on any fair-sized market they have, he recently declared at a meeting of dairymen held in Ashland, but to observe a few very simple rules.

Successful dairying he has found depends upon:

1. Having the herd in good health and to make this possible the barn must be properly ventilated and provided with a floor so constructed that it can be kept clean and sanitary.
2. Realizing that there are certain feeds that impart a flavor to milk that from the butter and cheese maker's viewpoint are objectionable.
3. Having the milk and cream stored

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from the time of milking to serving in rooms free from taints of any kind.

4. To induce greater cleanliness, having the barns whitewashed at least once a year in the creamery and cheese factory sections of the state as they are in the territories where the condensories are located.

5. Having dairy utensils made of the best grade of tin and never used for any other purpose. (All joints in the pails, cans and strainers should be well made and filled with solder. Cans with the tin partly worn off are not suitable receptacles for milk and cream, because they rust and this condition imparts a metallic flavor to the butter.

6. Keeping the separator in a room free from odors that are likely to taint the milk.

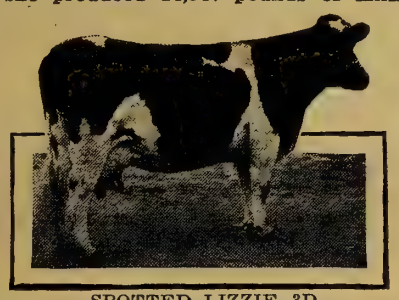
7. Storing the cream in a suitable place in clean cans equipped with tight-fitting covers.

8. Skimming cream that will test between 30 and 40 per cent in butter fat. (This kind of cream will give good results for both the producer and the manufacturer. If 40 per cent cream is skimmed, more skim milk will be left on the farm to be fed to young stock than when 30 per cent cream is produced.)

9. Delivering cream four times a week in summer and three times in winter. (Too many creameries in Wisconsin are taking in cream that is too old. As a rule, when the age of the cream increases it reduces the quality of the butter. Milk and cream producers in Wisconsin are able to do a great deal to assist in placing the quality of the butter on a higher plane than it is at the present time. Wisconsin butter has improved in quality during the past three years, but we are still short of possible perfection.)

ONE THOUSAND POUNDS OF BUTTER ANNUALLY.

A cow that produces upwards of 1,000 pounds of butter in a year is a fit and proper subject to be introduced to the readers of this paper. This record was made by Spotted Lizzie 3d, a Holstein cow in the herd of the Chicago Stock Farm. This cow freshened September 27, 1911, and started her test record four days later. In exactly 365 days following this date she produced 24,347 pounds of milk,



SPOTTED LIZZIE 3D.

or in terms of butter 1,011 pounds. During the period of her poorest month Spotted Lizzie 3d produced 1,542 pounds of milk and sixty-four pounds of butter. At the end of her yearly test this cow is in good flesh and tips the beam at 1,700 pounds. She comes by her milking ability honestly as she is the daughter of Johanna Pauline 2d's Lad, one of the greatest producing bulls of the Holstein breed.

MARKET YOUR CREAM OFTEN.

To the Editor of The Homestead:

One cannot make first-grade butter from second-grade cream, and every one knows that second-grade cream does not command the best prices. The man who markets dirty or sour cream need not be surprised if it is docked a few cents to every pound of butter fat. This dock will about represent the profit that should go to the farmer. The loss came from not marketing the cream at the proper time.

Too many farmers allow dirt to get into the cream while milking or the separator may not be thoroughly cleaned every time it is used. It may be the cream has been kept too long.

I believe it is best to market the cream at least every two days in summer and every three days in winter. All the while the cream should be kept as cool as possible either by cold water from a spring or well, or with ice put into a box or chest where the cream is kept. The first cream should be stirred until it is cool, and the next cream should not be poured into it until it has cooled. Then it should be stirred thoroughly into the old cream.

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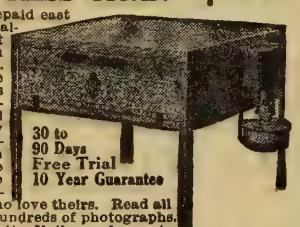

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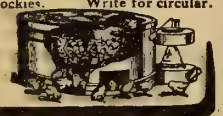

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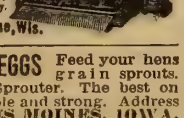

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

WHAT SHOULD WE EXPECT?

To the Editor of The Homestead:

Much has been said concerning the frauds practiced in the poultry business.

There are without a doubt instances where the buying has been imposed upon; yet there are also instances where statements are exaggerated.

It is not my purpose to write this article in defense of the guilty, neither to censure any one for doing something which they have not done, but to illustrate a few points which should be brought to light.

I know a lady who purchased a setting of duck eggs and while unpacking them noticed that one had a hole in the air cell end. She examined all and found only three that were not punctured.

Another purchased a setting from a store keeper that came from a breeder of a variety of thoroughbred fowls that she was particularly anxious to get. She considered it a better investment, as they could be purchased cheaper than from the breeder direct. When the three weeks were up and the eggs showed no sign of pipping she examined them closely and found holes in the air cell end.

In both instances the eggs were subjected to the same treatment yet the first case shows a fraudulent seller while the second was only defending his own right.

In every case we should expect what we order and give what we offer for sale or in other words to expect and to give a square deal.

When buying stock or eggs do not expect more than you would be willing to give.

Most breeders give full value for the money, but many times the buyer expects too much.

One year I bought a couple of full blooded cockerels of a buff variety several hundred miles from home. When it became noised about that I had paid a good price a neighbor dropped in and gave me a piece of his mind. He meant well, no doubt, yet I didn't feel like taking his advice.

To broach the subject he asked me what price I expected for eggs from my best pen. When I told him $5, he said, "If you ask a decent price you will sell more. Why didn't you go down here to Mr. So and So's and get your roosters. He keeps full bloods and asks only seventy-five cents each, and then you wouldn't have to charge an exorbitant price. There is where I got mine, and they are just as good as yours that you paid a high flying price for. Come down and see for yourself."

I questioned him regarding the standard requirements of his "roosters," and found he didn't know anything about them, nor what they ought to be.

Shortly afterwards I saw one of them. He had a solid black tail (where it should have been buff) and a greenish blue eye. The color of his legs was the only characteristic of his breed that he had.

The other, I was told, had white wings noticeable at quite a distance.

Again some dealers no doubt use any means to dispose of their stock just so they get rid of it at a profit. These usually find no money in the chicken business after a few years.

A breeder once phoned me that she was going on an extended visit and would dispose of her surplus stock so as not to have it to leave in any one's care. She had been informed by a mutual friend that I was in need of a cockerel of this particular breed and as she was selling at a sacrifice price I would surely want one or more of them. A dollar each was all she asked under the circumstances, but otherwise she would have asked $4 or $5 as they were well worth it.

I told her I had a pen in view where I expected to purchase. I could not go to see her flock and I preferred to see the cockerel before I bought.

"Well, it wasn't really necessary," she said, "to see him. She could describe him to me."

Her description was of a perfect bird, big and five points in his comb. She called me for three consecutive days, gave the same description each time, wanted me to send the dollar and she would find some way to send the bird, or would leave him in good hands until I could get him. The third day I told her to send him out with a party coming here and I would send the money back with him. When the big bird came he weighed somewhere between three and four pounds, was long legged, knock kneed, had seven serrations in his comb and had two other bad points, each of which would have disqualified him.

I promptly returned the bird and kept the dollar. There was no proviso in the deal about keeping the bird if he suited, but I took the liberty to return him just the same, and felt justified in so doing. He wasn't the bird I bought.

I have a faint suspicion since that she had a reason for wanting the money before she sent the bird; also that she wasn't over anxious to have me call and select him.

My advice is to have an understanding with the man or woman of whom you are buying if you cannot select your bird and if you are selling give a square deal. Don't sell a good bird and send an inferior one. Little crooks don't make a straight line to success in the poultry business.

No matter what you do, be honest and fair with the party with whom you deal. Don't ask too much and don't give too little.

A Farmer's Wife.

GETTING A START IN PURE-BRED POULTRY.

To the Editor of The Homestead:

There is one resolution that every farmer's wife keeping a mixed lot of chickens should make for the New Year, and that is that next season she will get a start in pure-bred poultry, for several reasons. They make a more uniform growth, require the same care and the best may be sold for double the market price for breeding purposes. It does not cost very much to get a start in pure-bred poultry if you are willing to begin in a small way. In fact, it cost me almost nothing. This is the way I began:

Ten years ago I had never kept anything but a mixed lot of chickens when I decided to get a start in White Wyandottes. Late in the spring when there was no longer any danger of the eggs getting chilled and broody hens were plentiful I sent to a reliable dealer and paid two dollars and twenty-five cents for a setting of White Wyandotte eggs. When they came the box had been broken into and some of the eggs taken. Of course the dealer made it right when I wrote him. There were eleven eggs left. I set them away for a day or two for eggs must rest after a long journey before they are put under a hen. Then I carefully prepared a nest for a gentle old biddy that was broody and from the eleven eggs she hatched and raised ten chickens. You may believe she had extra good care for those beautiful white chickens ere the apple of my eye. There were five cockerels and five pullets and I decided that next year I would keep only Wyandotte roosters and set only

Why Don't You Buy a Guaranteed Incubator?

That means a Fairfield. The tried and tested incubator acknowledged by all to be the World's Best Hatcher. Don't experiment. Don't gamble with your chicken profits. Make money on every hatch with a Fairfield, the only incubator in the world guaranteed to hatch 90% or better. No experience necessary to operate a Fairfield. Hatches equally well in cold or warm climates. Costs no more than ordinary uncertain hatchers, but pays for itself every hatch and earns a profit besides.

FAIRFIELD Incubators

The Only Guaranteed Hatchers in the World. Write for Trial Offer.

I know the Fairfield is the best Incubator made. That's why I guarantee it in the strongest way. The thousands of Fairfields in use back my claims. To convince yourself, write for my trial offer. Get full particulars of my guarantee. Get my free catalog before you buy, then you will be able to settle the incubator problem right.

SAM THOMPSON, Pres.,
Nebraska Incubator Co. 99 Main St., Fairfield, Neb.

More Money from Poultry

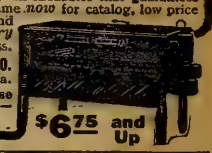
NOW is the time to get in the money-making poultry business with one of my Successful Incubators—**only $6.75 up.** With the "Successful" no experiments or trial hatches are necessary—you can be sure of success every time.

SUCCESSFUL INCUBATORS
(Life Producers)
SUCCESSFUL BROODERS
(Life Preservers)

give most chicks—raise more chicks—and are guaranteed with the strongest guarantee ever put behind any machine on the market. Don't buy an incubator that guarantees less than I do. Send your name *now* for catalog, low price proposition, guarantee, and *Free Lessons in Poultry Raising* that insure success.

DES MOINES INCUBATOR CO.
50 Second St., Des Moines, Ia.

NOTE—Book "How to Raise 48 out of 50 Chicks", 10c—Catalog is FREE. Get it.



$6.75 and Up

$7.35 FOR 155 EGG BIG INCUBATOR

Biggest guaranteed incubator at price—155 egg capacity. *Has hundreds of dead air cells*—only incubator with this special construction—well made—cold rolled copper tank, hot water heat, double disc regulator, deep nursery, high legs, double doors, egg tester, safety lamp. Special price $7.35. Incubator and Brooder together $9.85. Frt. pd. E. of Rockies. Order direct from this ad (money back if dissatisfied) or send today for our interesting big free book.

PROGRESSIVE INCUBATOR CO.
Box 127 Racine, Wis

HATCHES ON A GALLON

RAYO Incubator

See whole interior thru double-double glass top. Tank holds month's supply.

One Filling to a Hatch

Regulator adjustable to thousandth of a degree, acts on flame; double heating system uses all the heat—none escapes, none wasted—hatches on one gallon. Automatic ventilation. Egg turning semi-automatic. Roomy nursery, thick wood case, enameled mahogany steel covering. Anyone can use it. Big hatches certain and cheap. Low direct prices. Send for Catalogue No. 11

Rayo Incubator Co.
942 South 13th St. OMAHA, NEB.

Mandy Lee

New Principles in incubation. Every feature automatically regulated—heat, ventilation and moisture. The **Mandy Lee** is certain, simple, easy to operate. No chance for mistakes, simply follow plain rules. Chicks large and vigorous, the kind easily raised. Write for free books on incubator and Lee's famous Germozone, Lice Killer and Egg Maker.

GEO. H. LEE COMPANY,
1173 Harney Street, Omaha, Neb.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1913 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. **Only 15c.**

C. C. SHOEMAKER, Box 896 Freeport, Ill.

UNCLE SAM'S POULTRY BOOK

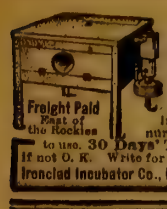
An official guide to poultry success. Written by government experts and worth $10 to you. Costs you only 20 cents and by our plan you can get 50 cents back. Send 2 dimes or 10 2-cent stamps. Uncle Sam says it's best to always use an incubator and

THE SURE HATCH INCUBATOR

is just the kind he says to use. Best materials, well built, low priced and guaranteed for 5 years. Send for big free catalog.

FREIGHT PAID

SURE HATCH INCUBATOR CO. Box 16 Fremont, Neb. 60 Days Free Trial



140 EGG INCUBATOR and 140 CHICK BROODER

The incubator is California Redwood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. **30 Days' Trial** — money back if not O. K. Write for Free Catalog today.

Both For **$10**

Freight Paid East of the Rockies

Ironclad Incubator Co., Dept. 59 Racine, Wis.

PLYMOUTH ROCKS.

EVERGREEN LAWN FARM

M. HUMMEL, Proprietor, MONROE, IOWA.

Has for sale 200 Barred Plymouth Rocks with large bone, finely barred, from high-scoring, first-prize-winning stock. We won 37 prizes at our last showings.

BUFF ROCKS

SPECIALTY breeder and exhibitor for 15 years. Choice cocks, hens and cockerels for sale. Write stating just what you want, what price you will pay and I am sure I can please you for I have the quality. Address M. E. KRAFT, Brooklyn, Iowa.

80 Very Choice Barred Plymouth Rock

COCKEREL-BRED cockerels and pullets for sale at from $2.00 to $6.00. Can furnish pens not related. Mrs. L. C. Reece, R. 1, Box 21, Prescott, Ia.

BUFF PLYMOUTH ROCKS

BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address J. O. KOERTH, - Toulon, Iowa.

White Plymouth Rock Ckls.

SEVEN to eight pounds, $1.00 to $1.50 each. Address M. A. McWilliams, Wall Lake, Iowa.

Big Barred Rock Cockerels

200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address Theo. Martin - - Bellevue, Iowa.

Bloom's Barred Plymouth Rocks

400 COCKERELS, hens, pullets, best I ever raised. Extra fine ones from pure Brady stock $2 to $5 each. Heavy-boned farmers' fowls $1 to $1.50 each. EARL BLOOM, - Bridgewater, Iowa.

WHITE ROCK COCKERELS FOR SALE

SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Berwick, Iowa.

WHITE PLYMOUTH ROCKS

LARGE, growthy cockerels, good shape and size. Also a limited number of choice pullets and hens. Cockerels at $2.00 to $3.00 each. Hens and pullets at $1.00 to $1.25 each. Write your wants. Address John W. Houselog, R. 6, Bellevue, Iowa.

FREE Barred Rock Cockerel with a $15 order. Won 1st, 3d pullet; 2d hen; 2d pen; 3d cockerel at Iowa State Fair, 1912. Cockerels $1.50 to $5. Express paid through December. Address Mrs. H. I. Branson, West Branch, Iowa.

60 BUFF ROCK COCKERELS for SALE

at $1.50 to $5.00. Some splendid birds. Also choice pullets. Address Mrs. P. J. Eggers, Denison, Iowa.

Barred Plymouth Rock Ckls., $2, $3, $4 each. Large bone, clear color, grand winning and laying strain, birds returned at my expense if not satisfactory. J. M. Detwiler, R. 2, Dunlap, Ia.

Barred Rock Ckls. Choice ringlet barring, large birds and of heavy laying strain. $1.25 to $2.00. Few Rouen drakes also. Address C. W. Francisco, Inland, Nebraska.

Buff Plymouth Rock Cockerels from high-scoring, trap-nested winter layers with show records. Good quality. Ex. stock and M. B. turkeys. M. Henningsen, Dike, Ia.

PURE-BRED White Plymouth Rock cockerels, Fishel strain, farm raised, $1 each. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

BUFF ROCK Cockerels $2. $1.50 each in lots of two or more. Bred from state fair and state show winners. Address C. & C. T. Van Lint, Pella, Iowa.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

BARRED Plymouth Rocks, largest type, best breeding, heavy laying strain. The poultry for the farmer. Mrs. S. M. Thompson, Birmingham, Ia.

Bargains in Barred Rock Cockerels

$2 to $3 each. Ammy Bartow, Lynnville, Iowa.

BARRED Plymouth Rock Ckls. Large, well barred, healthy birds. Good laying strain. Reasonable price. Mrs. J. H. Hellman, R. 4, Holstein, Ia.

Buff Plymouth Rock Cockerels at $1.50 each and pullets at $1 each. Address O. N. Woody, R. F. D. 3, Newton, Iowa.

100 BUFF R. COCKERELS Single birds $2.00, 3 or more $1.50 ea. Bred by prize-winning stock. Mrs. J. F. Crase, R. 2, Redfield, Ia.

White Plymouth Rock Cockerels. A choice lot for sale at farmers' prices, Fishel strain. Write your wants. L. L. Goreham, Odebolt, Ia.

600 BARRED ROCKS Both matings. Bred from 1st prize winners. They will suit you. A. D. Murphy & Son, Essex, Ia.

Buff Rock Cockerels Farm raised, fine large birds of good quality. From utility stock. Write for prices. R. H. Roberts, Clear Lake, Ia.

Barred P. Rocks A fine lot of big ckls., even, narrow, deep barred. Also pullets and hens. Best breeding and quality. Orville Jones, York, Neb.

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

W. P. Rocks. Best layers and payers; exhibition and utility stock for sale. Blue Ribbon winners. Write for prices. F. E. Ristrim, Stanhope, Ia.

Wyandotte eggs. I kept the best three roosters. The other two almost paid for the setting of eggs when I disposed of them in the fall.

At the end of the next hatching season having a nice little flock of white chickens I sold my mongrels and have never kept any since. I get new blood by buying a setting of eggs from some reliable dealer and selecting my roosters for the next season from these chickens. By careful selection, keeping only the best, and by good care, I have built up a flock of chickens that are an ornament to the farm and that bring me a nice supply of pocket money. So do not let lack of capital keep you from having pure-bred chickens. Mrs. E. E. Hunt.

Illinois.

LOSS FROM FERTILE EGGS.

The National Department of Agriculture is engaged in an educational campaign for the purpose of propagating sound knowledge in regard to the prevention of loss through the decay of eggs The poster system has been resorted to and a recent one contains the information that the loss due to bad method of handling eggs is $45,000,000 annually. One-third of this loss is said to be due to "blood rings" and every dollar of this loss is directly preventable on the farm. These blood rings develop only during warm weather from fertile eggs and it is therefore recommended by the department that all males be removed from the flock after the breeding season is over.

Bulletin 141 from the Bureau of Animal Industry, Department of Agriculture, deals with "The Improvement of the Farm Egg." It contains much valuable data and we advise our readers to make application for a copy of this bulletin to the Department of Agriculture, Washington, D.C.

If you let the layers out to wade around in the snow, you had as well hang up the egg basket till spring opens up.

Gather in the eggs often these frosty days, else they will freeze within a very few minutes after being laid.

POINTERS.

—Earl Welch, Kanawha, Iowa, is offering Rose Comb Rhode Island Red cockerels for sale in his advertisement on this page.

—Two-year-old Mammoth Bronze turkeys are offered for sale by F. B. Dann, Dewitt, Iowa, in his advertisement on this page.

—G. H. Burge, Mount Vernon, Iowa, writing in regard to his Silver Laced Wyandottes, an advertisement of which appears on this page, says: "At our recent poultry show I won three silver cups with my Silver Laced Wyandottes. I still have a fine lot of cockerels for sale."

—Mrs. O. W. Barrett, Ross, Iowa, is quoting prices on Rose Comb Rhode Island Red cockerels in her advertisement on this page.

—A price on young Mammoth Bronze turkey toms will be found quoted in the advertisement of F. S. Sexsmith, Orient, Iowa, that appears on this page.

—Indian Runner ducks and Toulouse geese can be purchased from Elsie McKibben, Hazleton, Iowa, at prices named in her advertisement on this page.

—Mrs. A. Kitson, Audubon, Iowa, is offering Mammoth Bronze turkeys, White Wyandotte cockerels and Pekin ducks for sale in her advertisement on page 24.

—Single Comb White Leghorn cockerels having free range are offered for sale by W. C. Kimball, Shellrock, Iowa, in his advertisement that appears on page 24.

—W. H. Mathews, Sterling, Ill., has 100 White Leghorn cockerels and 100 White Orpington cockerels on which he is quoting prices in the advertisement that appears on page 24.

—Express will be prepaid through January on Bourbon Red turkey toms and hens by Harry Sprague, Midland City, Ill., at prices named in his advertisement on this page.

—Mrs. E. E. Johnson, Milo, Iowa, has some pure-bred White Plymouth Rock cockerels of the Fishel strain that she is offering for sale in her advertisement that appears on this page.

—F. B. Dann, Dewitt, Iowa, is closing out his entire flock of Rhode Island Reds. Prices at which he will sell pullets and cocks are named in the advertisement found on this page.

—The advertisement of M. A. McWilliams, Wall Lake, Iowa, offering White Plymouth Rock cockerels weighing from seven to eight pounds, will be found on this page of The Homestead.

—Mammoth Bronze turkey toms and hens and Black Langshan cockerels and two-year-old hens are offered for sale by Mrs. James Bristol, Kirkman, Iowa. Her advertisement appears on this page.

—W. C. Runft, Reinbeck, Iowa, desires to purchase in large numbers White Indian Runner ducks, White Plymouth Rock pullets and White Leghorn pullets. His advertisement appears on this page.

—Mrs. Francis Culver, proprietor of the Culverdale Farm, Red Oak, Iowa, is offering large-boned, vigorous Single Comb Rhode Island Red cockerels for sale. Her advertisement is on this page of The Homestead.

—Fifty choice, early-hatched Single Comb Buff Orpington cockerels are offered for sale at very reasonable prices by Mrs. Emilie Plough, Carter Oak, Iowa, in her advertisement that appears on page 24.

—On account of removal, Alex McNeill, Harlan, Iowa, proposes to close out his Single Comb Rhode Island Red cockerels and pullets at bargain prices. Among the lot that he has for sale is one prize cock. See advertisement on this page.

—Sixty choice Buff Rock cockerels are advertised for sale by Mrs. P. J. Eggers, Denison, Iowa, on this page. She also offers some choice pullets for sale. Send her your order right away if you want a good cockerel or a few extra good pullets.

—Monster Mammoth Bronze turkeys sired by Iowa King, scoring 98, and 400 Barred Plymouth Rocks sired by a son of the Chicago first-prize winner, are advertised for sale by Strater Bros., Monroe, Iowa, in their advertisement that appears on page 24.

—R. H. Patterson, Vensailles, Ill., has two advertisements in the poultry department. Under the duck head he is advertising English Standard Runner drakes. In the Leghorn column he is offering high-class Rose Comb Brown Leghorn cockerels.

—E. & J. W. Trettin, Grafton, Iowa, have fifty-two varieties of chickens, ducks, geese and turkeys on which they have won thousands of blue ribbons and first sweepstakes prizes, that they are offering to Homestead readers in their advertisement on page 24.

—Henry Schehl & Sons, Prophetstown, Ill., write that they have a few large Rouen ducks left, both drakes and hens. At the Midwestern Poultry Show in Chicago this year they won three firsts and one second. This makes them twelve firsts and one second in four years.

—William Neiers, Cascade, Ia., whose advertisement appears on this page, writes: "I still have a very fine lot of Silver Laced Wyandotte and Barred Plymouth Rock cockerels, cocks, hens and pullets that I am selling at one-third their actual value, as they are equal to those of any breeder in America. I can furnish these in any numbers, single birds, pairs, trios or pens, and can furnish them properly mated, males not related to females."

—W. I. Mouser, Red Oak, Iowa, in furnishing copy for his advertisement on this page, writes: "At Clarinda, December 2d to 7th, at the Southwestern Iowa Poultry Show, we won silver cup for ten highest-scoring Rhode Island Reds. Also on our Single Combs we won first on pen; first and second on cocks; first, second and fourth on pullets; first, second and fourth on cockerels and first on hen. On Rose Combs we won first and second on cockerels; first on hen and second on cock. There were 718 exhibits in the show." In writing Mr. Mouser for

$4.95 AND IT'S YOURS — NEW MANKATO

Direct from factory. 18 years experience. Safe, sure, simple. Redwood, triple walls, asbestos lined. Copper hot water heating tank, self regulator, automatic ventilation, safety lamp, nursery, tested thermometer. Comes all set up, ready to start. Write for free Catalog and Poultry Book. Address

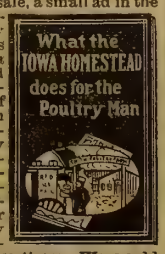
Large Size $8.25

Mankato Incubator Co., Box 827, Mankato, Minn.

Good Prices for Your Poultry

THE shortage and high price of meats have led to a greater consumption of poultry. This and the cold weather last spring which cut down the spring hatch have greatly reduced the supply. Demand and supply always control price. Consequently, the high prices being realized because of an increased demand and a diminished supply are encouraging hundreds of farmers to go into the poultry business in a more earnest manner. One result is a great demand for breeding stock during the coming season.

If you have anything for sale, a small ad in the columns of The Iowa Homestead will find you ready buyers. The 140,000 farmers of Iowa, Illinois, Nebraska and sister states who read The Iowa Homestead regularly have, on account of their increasing interest in poultry, grown to greatly appreciate its regular poultry department which is recognized as the reliable, progressive and practical authority on farm poultry raising of this territory. For years, hundreds of poultry breeders have been patronizing The Homestead as advertisers. We would like to send you a little booklet of testimonials telling about the results these advertisers have received. No obligation attached. It is free to all our friends and every poultry raising farmer is our friend.



Poultry Advertising Department, IOWA HOMESTEAD, Des Moines, Iowa.

GEESE.

EXTRA BIG White Embden geese. Young and old. Blue Pilgrim winners $2.00 and up. AUG. SCHRAGE, Bristow, Iowa.

RHODE ISLAND REDS.

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive circular. Address P. H. THIEL, - Renwick, Iowa.

Farm Range Rose C. R. I. R.

COCKERELS $1.50 to $2.00; pullets at same price. The kind that lay at all times. Good individuals. J. B. REIBEL, Grinnell, Iowa.

S. C. Reds, Brilliant Red Strain

LARGE bone, vigorous cockerels $2, $3 and $5 each and up. Females $1 to $5. Trios and pens $10 to $25. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

S. C. R. I. RED COCKERELS

GOOD breeders at $1.00 to $2.00 each. Write me what you need. Satisfaction guaranteed. Address L. G. JOHNSON, Steamboat Rock, Iowa.

OUR BLOOD RED STRAIN S. C. Reds were the big winners again at Iowa State Fair. Choice cockerels, hens and pullets to offer. Red eyed, big boned, rich, even, glossy birds. F. L. Reinhard & Son, Ottumwa, Ia.

ROSE COMB REDS Nothing else. Good healthy farm raised cockerels $1.50 and $2.00 each for choice birds. Address B. F. Bentley, R. F. D. 2, Boone, Ia.

R. C. R. I. RED COCKERELS 200 BIG-BONED Cockerels. Scored and unscored. Reduced prices on early orders. F. N. Blake (successor to Harry C. Blake) Maquoketa, Ia.

R. C. RED COCKERELS large, early hatched; fine color; $1.00 to $2.00 each. Mrs. J. Holmgren - - Rolfe, Iowa

R. C. R. I. RED COCKERELS Big bone. Farm range. $1.50 each if taken at once. Mrs. O. E. Barrett, Ross, Iowa.

Deep Red R. C. Reds, big boned, long back, low tail, red eyes, score 90 to 93½; guaranteed. HIGHLAND FARM, Hedrick, Iowa.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

REMOVAL SALE Sold my place and will sell S.C.R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

CHOICE R. C. R. I. RED COCKERELS Deep red. Early hatch $1.50 up. Address Earle Welch, Kanawha, Iowa.

MY ENTIRE FLOCK OF R. I. RED PULLETS $1 each. Cocks $1.50 and $2. F. B. Dann, Dewitt, Iowa.

R. I. REDS (Both combs) Exhibition and breeding males and females for sale at $1.50 and up. Address W. I. Mouser, R. 5, Red Oak, Iowa.

Deep Red R. C. R. I. Red ckls. $1 each; pullets, $1, $2, $3.50 each. Orders taken now for eggs after March 1. Mrs. Chas. Belz, Conrad, Iowa.

TOP NOTCH S. C. R. I. Red cockerels. Large, dark red birds at $1.00 and $1.50 each. W. E. Briggs, Route 2, Woodbine, Iowa.

ROSE COMB RHODE ISLAND REDS of quality, size and red color ckls. only at right prices. Address Ira Stetzel, Ross, Iowa.

A NUMBER of fine R. C. R. ckls. Also trios in both R. and S. comb. A number of lay house pullets $12 a doz. Inquire of Mrs. A. L. Morrill, Pontoosuc, Ill.

CHOICE S. C. R. I. RED COCKERELS Write your wants. Mrs. Sophia Rader, Laurel, Iowa.

ROSE COMB RED COCKERELS FOR SALE. Bred from prize-winning stock. H. E. Huston, Iowa Falls, Ia.

TURKEYS.

MAMMOTH BRONZE TURKEYS

THEY are the large frame, big-boned kind with brilliant plumage. Many young toms last February weighed up to 34, 35 and 35½ lbs. Also Shetland ponies. Address Frank P. Healey, Bedford, Ia.

FOR SALE Pure-bred M. B. Turkey toms and hens choice of a flock of 160 sired by a 40-lb. tom large healthy birds. R. H. Coyle, Cascade, Ia.

BOURBON RED TURKEYS LARGE, heavy-boned ones. Toms $5, hens $3.50. Express prepaid through January. Harry Sprague, Midland City, Illinois.

M. B. TURKEYS Young stock sired by 1st prize cockerel Ia. State Fair, 1911. Young toms $5. Females $3. Lots of vigor. Sterling Martin, Melrose, Iowa.

M. B. TURKEYS Young toms as good as the best $5.00 each. Satisfaction guaranteed. F. J. Sexsmith, R. F. D. 2, Orient, Iowa

TWO-YEAR-OLD M. B. TURKEYS. HENS $5 and gobblers $8. Write F. B. Dann, Dewitt, Iowa.

BOURBON RED TURKEYS Hens, $3.00, Toms, $5.00. MRS. M. MOSS, - Tipton, Iowa.

BOURBON RED TURKEYS Toms, $5.00, Hens, $3.00. Eggs in season. Mrs. Allie Davis, Saline, Mo.

BOURBON RED TOMS at $5.00 each. Large, healthy big-boned kind with fine plumage. Address Mrs. Al. Minish, Voorhies, Ia.

PURE-BRED WHITE Holland Turkeys for sale. Am leaving farm; wish to close out soon; prices right. Mrs. C. E. Conger, Bristow, Ia

80 W. Holland turkeys, fine, healthy birds. Can furnish trios unrelated. Write me your wants. Mrs. C. H. Schmidt, R. F. D. 1, Tripoli, Iowa.

M. B. TURKEY toms and hens of good size, quality and standard markings, sired by a 40-lb. yearling tom. M. Henningsen, Dike, Iowa.

M. B. Turkeys White Wyandotte ckls. Pekin ducks. Prices right. Address Mrs. A. Kitson, Audubon, Iowa

WYANDOTTES.

A. L. Anderson

Breeder of high-class GOLDEN AND SILVER LACED WYANDOTTES, Indianola, Iowa. 20 miles south of Des Moines.

100 WHITE WYANDOTTES

MY great laying and exhibition strain, cockerels, cock birds, hens and pullets. Write me about them at once, stating plainly just what you want. S. HARR, RIVERSIDE, IOWA

Faha's Silver Laced Wyandottes BEST in America. Winners at New York, N. Y., Philadelphia, Pa., Little Rock, Ark., etc. Write for catalog. Frank Faha, Jr.. Box 620, Dyersville, Ia.

Large Strain of Buff Wyandotte Cockerels FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

WHITE WYANDOTTE Ckls. $1.50 each; extra good ones $2 each. Only a few left. Address W. S. Gregory, Route 2, Keota, Iowa.

SEVENTY-FIVE (75) R. C. Silver Laced Wyandotte cockerels in healthy condition. Price $1.50 or 4 for $5. Address Ansel T. Brookins, Ionia, Iowa.

PARTRIDGE WYANDOTTES 50 cockerels, 50 pullets. Buff Wyandottes, cockerels and trios. Prize winners. Thos. L. Morlan, Indianola, Ia.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address R. B. Rowe, Indianola, Iowa.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

SILVER LACED Wyandottes. 100 cockerels for sale. Cocks and hens all sold. G. H. Burge, Mt. Vernon, Ia.

FOR SALE White and Silver Laced Wyandotte cockerels. The Malmberg strain. Good color and bone. Malmberg Bros,, R. 3, Red Oak, Ia.

30 VERY NICE SILVER LACED Wyandotte cockerels for sale at $1.00 each. Address Mrs. C. Van Zante, Pella, Iowa.

Partridge Wyandottes Cockerels and pullets of high-scoring birds. Ckls., $2 to $8, pullets $2 to $5. Edw. Meyer, Dyersville, Ia.

SILVER Laced Wyandotte ckls. for sale. Owing to change in location must close out early at prices that will take them. S. R. Young, Greenville, Ia.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

WHITE Wyandotte ckls. for sale. Large, growthy, farm raised birds. Finest coloring, best markings. Prices right. W. F. Kilpatrick, R. 5, Harlan, Ia.

BUFF WYANDOTTE COCKERELS that are buff and Indian Runner drakes. Fawn and White. Geo. M. Deyoe, Mason City, Ia.

DUCKS.

80 YOUNG PEKIN DUCKS and DRAKES WEIGHING up to 9 lbs., sired by drakes scoring 96 to 97, weighing 10 and 11 lbs. Old hens weighing 9 lbs. $1.50 up to $2.50 each. Write your wants to J. M. HALL, R. 1, Williams, Iowa.

ENGLISH STANDARD RUNNER Drakes. White egg strain. Satisfaction guaranteed. R. H. Patterson, Versailles, Ill.

FAWN and White I. Runners. Unrelated trio $5. Females $2 each. Write for prices on high-scored drakes. Address Mrs. C. A. Robinson, Griswold, Ia.

INDIAN RUNNER DUCKS and Toulouse Geese Ducks $1 to $1.50; geese $2, ganders $2.50. Elsie McKibben, Hazleton, Iowa.

PEKIN DUCKS Extra large No. 1 laying strain. Hens $1.50; Drakes, $1.50; young 9-lb. drakes, $3. Mated trio, $4.50. Edward Meyer, Dyersville, Ia.

OUR INDIAN RUNNER DUCKS were the grand champions again at Iowa State Fair. Stock for sale. F. L. Reinhard & Son, Ottumwa, Iowa.

Indian Runners Pencilled, mated trios, $5.00. Drakes, $1.50 to $2.00. Address Nishna Collie Kennels, Oakland, Iowa.

DOGS.

SCOTCH COLLIES

OF extra choice blood lines, none better anywhere, and nicely marked. We have a number ready to ship, all of good ages. For a bargain in strictly high-class dogs, write us. A. A. Martin & Son, R. D. 4, Box 107, Lincoln, Nebraska.

COLLIES Sired by Seedley Superior, Parbold Proclamation, Billesley Burglar and Lazewell Superior, reserve winner at Des Moines, Iowa, 1912. Bitches by Superior Prior and Artist. Pups all S. & W. well marked. Pups for the farmer or the breeder. F. M. Swank, R. 4, Unionville, Ia.

COLLIES—Bred and open bitches that are heel drivers. Pups by Imp. Ormskirk Sample, the trained dog on sheep. They work. Bitch pups to let out on shares. Send for Sales List. Airedales—for hunters, ratters, watch dogs, companions, have no equal. Address P. L. Savage, St. Charles, Illinois.

Collies Choice pups and brood bitches, trained drivers. Sales list free. AIREDALES, for hunters, watch dogs, companions, have no superiors, state your wants. P. L. Savage, St. Charles, Ill.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 127, Oakland, Ia.

FOX TERRIERS All ages, best rat, pet or watch dog on earth. Some bred females. T. H. Kaldenberg, 1401 Main St., Pella, Ia.

FOR SALE, Collie pups from registered parents, which are natural healers. Are all sable and white. Prices low. Address E. M. Filson, Birmingham, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

stock please state about what price stock is wanted.

—Mrs. M. Moss, Tipton, Iowa, is quoting prices on Bourbon Red turkeys in her advertisement on page 23.

—On page 23 of The Homestead may be found the advertisement of R. H. Coyle, Cascade, Iowa, offering pure-bred Mammoth Bronze turkey toms and hens for sale. They are of the deep bronze color, full breasted, large boned, free from disease and the choice of a flock of 160.

—Good Bros., Montezuma, Iowa, breeders of Partridge Wyandottes, Buff Orpingtons and Buff Plymouth Rocks, have an advertisement on this page in which they are quoting prices on same. They write that they have won many prizes at different shows, including the Iowa State Show.

—The supply of winter eggs which, of course, are the most profitable for market purposes, can be readily increased at small expense by feeding chickens grain sprouts. In this connection the advertisement of Clark's grain sprouter on page 22 will be interesting to many of our readers.

—"My turkeys have had farm range and are hard to beat," writes Mrs. C. H. Schmidt, Tripoli, Iowa, in sending copy for her advertisement offering eighty White Holland turkeys for sale which will be found on page 23. She has two separate strains from which Homestead readers can make their choice.

—M. Hummel, Monroe, Iowa, has 200 Barred Plymouth Rocks from high-scoring, first-prize winning stock with large bone and finely barred, which he is offering for sale in his advertisement on page 23. He writes: "We won thirty-seven prizes at our last showings." Anyone in need of some choice cockerels write to the address named.

—Charles J. Mackey, West Liberty, Iowa, in furnishing copy for advertisement found on this page, writes: "My Single Comb White Leghorns are splendid layers. We want to close out our surplus stock soon, as we are getting our pens ready for our egg trade, and will make low prices on cockerels, hens and pullets from $1 up. Get your order in at once."

—Toulouse geese, both ganders and hens, are offered for sale by James Cockerton, Whiting, Iowa, on this page. He won first and second prize on these at the Sioux City show this fall. He has the very best and at reasonable prices. He also offers 100 head of splendid Barred Plymouth Rock cockerels, of the Bradley-Thompson-Easton-Shellenbarger strains. If you want a good one send him your order at once.

—Mrs. L. C. Reece, Prescott, Iowa, starts her Barred Plymouth Rock cockerel advertisement on page 23 and she offers forty very choice birds for sale. She also offers forty choice pullets for sale. These are all Bradley bred and are all from high-scoring roosters and hens. In fact there is not a better flock of Barred Plymouth Rocks in the West. If you send Mrs. Reece an order you will be pleased with what she sends you.

—Mrs. Allie Davis, Saline, Mo., in furnishing copy for her advertisement on this page, writes: "I have the best flock of turkeys this fall for sale that I have ever raised. The Bourbon Red turkeys are the best layers and stay right around the house the same as chickens. The young turkeys are very strong and easily raised. I can suit anyone who wants good stock, as I cull very closely and do not offer anything but the very best birds for breeding purposes."

—"The Barred Plymouth Rock and Single Comb Rhode Island Red cockerels we are offering for sale," writes Frank Santee, What Cheer, Iowa, in furnishing copy for advertisement on this page, "are large, heavy-boned, thrifty birds, young stock having free range. The Barred Rocks, scoring to 91¼ by Shellabarger, are a fine, even lot of birds sired by a Bradley bird direct. I have been using Bradley birds for several years. We guarantee satisfaction and safe delivery."

—Mrs. James McNally, Victor, Iowa, whose advertisement of Barred Plymouth Rocks and Single Comb Rhode Island Reds appears on this page, writes: "I have a splendid lot of young Plymouth Rock cockerels for sale, the best I have ever raised. They are from cockerels scoring 90 points and from hens that are good in color and shape. The young birds weigh seven to nine pounds, one young bird weighing nine and one-half pounds. They are of that fine, even barring, of the same color throughout, good five-point combs, yellow legs and beaks. I have some cocks that I am pricing very cheap. They are scored and weigh from ten to twelve and one-half pounds. The Reds are of that deep, rich color and have good markings. They weigh from seven to eight and one-half pounds. Single birds, $2 to $3 each, in lots of three or more at a reduction. These are bargain prices, quality considered. Can ship over two different express companies, United States from Victor or the American from Hartwick."

Guth's White Rock Cockerels.

The White Rock cockerels being offered by Charles Guth, Berwick, Iowa, are something extra in size and in quality. They are sired by the bird that was grand champion at the 1911 Des Moines show and they show up their blue-blood lineage in fine shape. These are strapping big cockerels, weighing eight, nine and ten pounds each. They are priced right—$3 for a single bird and $2.50 each for two or more. Every bird guaranteed to please.

LEGHORNS.

SINGLE COMB BROWN LEGHORN

Cockerels and pullets. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. J. A. PENN, Phone 87, ALTA, IOWA

A Choice Lot of Rose Comb

BROWN LEGHORN cockerels for sale at Pike Timber Stock Farm. EGGS IN SEASON. DAVENPORT & MACK, Belmond, Iowa.

ROSE COMB BROWN LEGHORNS. Large, vigorous birds, early hatch, splendidly marked with true Leg. type, best strains of layers known to breed. None but best sent on mail orders. Ckls. $1.50 ea., 3 or more $1.25. 5 utility $5. Geo. Boyce, Newell, Ia.

S. C. W. LEGHORNS Cockerels for sale. Vigorous, free range stock. Scored birds $1.00 to $5.00. Eggs in season. Address W. C. Kimball, R. 1, Shellrock, Iowa.

HIGH SCORE S. C. B. Leghorn ckls. 91 to 93½. Some unscored. My price is low. AUG. SCHRAGE, Bristow, Ia.

30 Single Comb Brown Leghorn Pullets. June, July hatch. Good quality, good colors, $7.50 per doz. Indian Runner drakes $1.00 each. Mrs. Will Michael, Selma, Ia.

HIGH-CLASS R. C. B. LEGHORN Cockerels. Farm raised. Priced right. R. H. Patterson, Versailles, Illinois.

100 FARM RAISED S. C. W. Leghorn ckls. for sale. Fine, healthy birds. $1 each or 6 for $5. A. R. Cochran, Anita, Cass county, Iowa.

LEGHORNS, Rose and Single Comb buff, brown and white $1 each. Leghorn Poultry Farm, R. 8, Hampton, Iowa.

S. C. W. LEGHORNS Young's strain. Ckls, hens, pullets, $1 up. Shipped on approval. Chas. J. Mackay, Bx. 523, West Liberty, Ia.

Single Comb Brown Leghorn Cockerels for sale at $1.00 each or six for $5.00. Address Rinner Bros., Noble, Iowa.

S. C. B. Leghorn cockerels and hens. Rhode Island Red Single Comb cockerels. M. B. turkeys, fine. Mrs. Geo. Manning, Birmingham, Iowa.

S. C. W. LEGHORN Ckls. unscored $1, others scoring to 94½ points. A few prize-winners for sale. Mrs. Wilson McIntire, Red Oak, Ia.

FOR SALE COLLIE PUPS, S. C. B. Leghorn cockerels, $1 each or 6 for $5. Mrs. A. N. Bonnett, Birmingham, Iowa.

FOR SALE CHOICE LOT OF S. C. W. Leghorn Cockerels. Address MRS. S. J. PHILSON, - Harlan, Iowa.

ORPINGTONS.

Fortmann's Single Comb White Orpingtons

ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once Frank Fortmann, Box 23, Dyersville, Iowa.

SINGLE COMB BUFF ORPINGTON COCKERELS FOUNDATION stock cost from $35 to $50 each. They are as good as possible to secure. While they last $5.00 each. John T. Stadler, Minden, Neb.

FOR SALE S. C. Buff and Black Orpington Cockerels from prize-winning stock, Wm. Cook strain, $1.50 up. Write for catalog. Ed L. Wallerstedt, Boxholm, Ia.

30 BUFF ORPINGTON COCKERELS I AM offering 30 choice ckls. for sale; popular prices if ordered at once. R. W. Halford, Manning, Ia.

50 CHOICE early hatched S. C. Buff Orpington cockerels for sale at $1 each or six for $5. Address Mrs. Emilie Plough, Charter Oak, Iowa.

Single Comb White Orpingtons Cockerels from scored stock. Price, $2.00 each. Israel Halder, Laurens, Iowa.

COCKERELS, Kellerstrass S. C. White. Bred direct from 1st prize winners at Omaha, Sioux City. Nettie Crane, 2114 Ave. C, Council Bluffs, Ia.

50 SINGLE COMB BUFF ORPINGTON cockerels for sale. $1 up. Write me your wants. Good stock. E. N. Silker, Epworth, Ia.

50 CHOICE early hatched S. C. Buff Orpington cockerels for sale at $1.50 each or 4 for $5.00. Mrs. W. E. Zimmerman, Neola, Iowa.

SINGLE COMB Buff Orpington cockerels and pullets Two pens. Cook and Owens strains Prices $1.50 and up. H. Cavell, Haverhill, Iowa

KELLERSTRASS WHITE S. C. BUFFS 500 birds at right prices. Orpington Farm, Big Rock, Illinois.

100 CHOICE early hatched 241-egg strain S. C. Buff Orpingtons. Cockerels and pullets. Cook strain direct. Prices right. W. L. Bardsley, Neola, Ia

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

BLACK LANGSHANS Winners at Keosauqua and Ottumwa, 1912. Choice ckls. $1.50 and $2.00. Bert A. Randell, Mt. Zion, Iowa.

BLACK Langshan ckls, scoring from 90 to 94½; winners at Iowa State Fair. These birds are large, heavy-boned. Address A. Dearinger, Reasnor, Iowa.

Black Langshans Cocks and Cockerels for sale, $1 to $2.50, from high scoring penned stock. Bruce Cavitt, Mt. Sterling, Ia.

BIG BLACK LANGSHAN Cocks and cockerels at $1.75 and $2 each. Eggs in season. Satisfaction guaranteed. A. H. Koch, De Soto, Iowa.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls, and pullets for sale. W. W. Vaughn, Marion, Iowa.

BRAHMAS.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

MISCELLANEOUS.

Strater Bros., Monroe, Ia.

FOR SALE. MONSTER MAMMOTH BRONZE TURKEYS, sired by Iowa King, score 98, and 400 Barred Plymouth Rocks, sired by a son of the Chicago first prize winner, that have the size and quality. PRICES REASONABLE.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

Toulouse Geese, B. P. R. Cockerels I AM offering 100 choice B. P. Rock cockerels, Easton-Shellenbarger-Thompson strains, $1 to $2. 25 TOULOUSE GEESE. VERY CHOICEST. Ganders and hens. Won first and second at Sioux City show. James Cockerton, Wheeling, Iowa.

FOR SALE—Mammoth Bronze and White Holland turkeys from winners at Chicago, Minnesota, Iowa and So. Dakota State Fairs, 1910-11-12. Also Leghorns, Rocks, Orpingtons, Minorcas, Langshans, Toulouse and Embden Geese, Pekin Ducks, White and Pearl Guineas. Catalog Free. Address J. H. ALLEN, - WALNUT GROVE, MINNESOTA.

FINE THOROUGHBRED POULTRY 48 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 19th Annual Poultry Book. Address R. Neubert, Box 807, Mankato, Minn.

55 BREEDS Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Collie Dogs. Send 4c for large Poultry book Incubator Catalog and Price List. H. H. SHINIKER, Box 32 Mankato, Minn.

Turkeys, Geese, Chickens and Ducks

IF in need of Bronze, Embden, S. L. Wyandottes, Pekins of size and quality, J. D. Smith, Montezuma, Ia.

MAPLE RIDGE POULTRY FARMS Breeders of B. and W. P. rocks S. C. W. Orp., W. and P. Wyn., R. C. R. I. reds, B. C. bantams, Toulouse geese, P. and I. R. ducks, M. B. turkeys, W. guineas. Splendid lot youngsters ready for winter shows or breeders. Satisfaction guaranteed. Write. J. W. Mowery & Sons, R. 2, Hedrick, Ia.

Bonnie View Bourbon Red Turkeys FINEST OF ALL TURKEYS. White Wyandottes, the kind that lays every day. Address MRS. N. W. BURBANK, New Sharon, Ia.

SINGLE COMB BROWN LEGHORN hens, cockerels and pullets, heavy-laying strain, 75c and $1 each; also White African guineas and White Holland turkeys. Satisfaction guaranteed. Edw. Dooley, Selma, Ia

WANTED In large numbers, White Indian Runners, White Plymouth Rock pullets and White Leghorn pullets. No fancy price considered. Address W. C. Runft, Reinbeck, Iowa.

50 W. Wyandotte cockerels and 50 S. C. Buff Orpington cockerels. They are all good, farm raised stock, weighing up to 9 pounds. Prices reasonable. Address A. G. Dreher, Audubon, Iowa.

FOR SALE 100 White Leghorn cockerels Young strain, and 100 White Orp. ckls., Kellerstrass strain, $1.50 to $3 each if taken at once. W. H. Mathews, R. F. D. 8, Sterling, Ill.

FOR SALE 25 choice R. C. White Wyandotte cockerels $1 each. A few choice W. H. Turkeys. Young toms $4.50 each and hens $3.00 each. Address James Flett, Dows, Iowa.

FOR SALE Mammoth Bronze turkeys at a special price. Young toms sired by a 50-pound tom. Also collie bitches and puppies. E. J. THOMAS, West McHenry, Illinois.

BARGAINS IN BARRED ROCK Cockerels. Bradley Barred Rocks and S. C. Reds. Scored and unscored. New blood for old customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia

Silver Laced Wyandottes, Barred Rocks, White Crested, Black Polish, yearling and young stock for sale. Wm. Neiers, L. B, 45, Cascade, Iowa.

75 BARRED ROCKS and S. C. Reds from high-scoring, farm-raised stock, $2.00 to $3.00 each. Mrs. Jas. McNally, Victor, Iowa.

THOROUGHBRED Mammouth Bronze turkeys. Toms $5, hens $3. Black Langshan ckls., 2-year-old hens $1 each. Mrs. James Bristol, Kirkman, Ia.

PARTRIDGE Wyandottes, Buff Orpingtons, Buff Rocks, good ones, from $1.50 to $5. State what you want and get it. Good Bros., Montezuma, Ia.

BARRED Plymouth Rock, Golden Wyandotte cockerels and pearl guinea ckls. $2 up, guineas $1 each. Address J. O. Walton, Belle Plaine, Iowa.

R. C. B. LEGHORN Cockerels early hatched, 75 cents and up. I. R. drakes and ducks 75 cents and up. Mrs. G. W. Brockway, Clarksville, Ia.

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Embden geese. Mammoth Pekin ducks; reasonable. Mrs. M. W. Coan, Little Cedar, Ia.

S. C. R. I. Red Cockerels and Bourbon Red Turkeys for sale. Cockerels $1.50 and $2 50, turkeys $3 and $5. Address Mrs. A. Laun, Floyd, Iowa.

R. C. WHITE ORPINGTONS BRED TO LAY. Mammoth Pekin ducks, Embden geese. P. F. Smith, Montezuma, Ia.

ROSE and Single Comb White Leghorns and Black Langshan cockerels for sale. Single bird $1.25 or 6 for $6. Address Joseph Kappes, Jr., Ashton, Iowa.

S. C. R. I. RED COCKERELS from scored stock, $1.50 each. Penciled I. R. Drakes, $1. A. B. Walton, Wilton Junction, Iowa.

ROSE C. Brown Leghorn cockerels, choice stock, farm range. Single birds $1, 6 far $5. Also Toulouse geese. L. Guttermann, R. 4, Forest City, Ia.

KELLERSTRASS C. W. Orp. and R. C. and S. C. Rhode Island Red ckls. Utility $1 each, choice ones $2 each. Mrs. T. A. Gough, Bristow, Iowa.

PEKIN DUCKS W. Wyan., choice, large stock, desirable breeders, sure to please. Write for what you wish. E. S. Dyas, Bellevue, Iowa.

BLACK and W. Langshans, S. C. Buff Orpingtons, Lt. Brahmas, R. C. R. I. Reds, M. B. turkeys, choice stock, prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

NEED OF ORGANIZATION FOR LIVE STOCK.

As long as plentiful supplies of good feeder cattle could be procured from the large grazing areas of the West and Southwest the extensive feeders of the corn belt preferred to buy rather than produce animals for their feed lots. During the past few years, especially the range area of the country has been diminished materially by the fences of the settler and at the same time the West is fast becoming a finisher of beeves as well as a producer of feeders because of the rich forage and abundant grain that is being produced both with and without irrigation. In the meantime, therefore, beef cattle production east of the range country has been neglected. At present the native breeding stocks of the country are badly mixed as to their blood lines. Casual observation only will reveal in the majority of our farm lots cows greatly varying in color, conformation and type, hence a marked lack of adaptability to some specific purpose. In order to overcome these conditions it is desirable to establish some form of organization for the purpose of bringing about unity of purpose in the community and induce as far as possible the use of pure-bred sires.

The form of organization which has been established and extended throughout the state by the animal husbandry department of the Michigan Agricultural College has proved to be very successful. These are known as co-operative live stock breeders' associations and are planned as follows, viz.:

The people of the community must first decide upon the line of production they desire to pursue, and this step is followed by the selection of some breed with signed agreements of every member of the association to use nothing but pure-bred sires of this particular breed. The best of the grade and mixed-bred females of the farm are retained and the process becomes one of up-grading. These associations are being organized in communities where the farms are not large and the herds are close together. The owners of forty cows form sections or groups, and a pedigreed sire is procured for each of these sections. At the end of two years, to avoid inbreeding, the sires are shifted to another group, and so on at the end of four and six years. In the case of the three-group or three-bull associations the initial purchase furnishes pedigreed sires for a period of six years, barring accident or death.

Most of the associations now operating in Michigan are incorporated under state law. Copies of the articles of association and rules and regulations may be obtained from Michigan Experiment Station Circular No. 4.

By this plan of organization the smaller producer of live stock is induced to undertake improved breeding methods. While this type of stockman may own but a few head, still in the aggregate for the entire country this class possesses a large share of animals. In instances where large herds are found the owners enter the association freely, even though possessed of females sufficient to warrant his keeping one or more males on his own farm.

In Michigan there are now about forty co-operative live stock breeders' associations, with over 700 members, organized on the plan heretofore described, including beef and dairy cattle and swine. In the communities where these organizations are formed a great many individuals engage in the same lines of breeding who do not actually join the associations. This number has been estimated as fully equal to the exact membership.

Of all the organizations formed thus far, all are in successful operation except one or two. The organization interests and ties the individual up to some one specific thing. Improvement in other lines of farm practice inevitably follow, as indicated by the following improvements in a community where the co-operative breeders' association was visited within two years after its establishment. Many individuals had become sufficiently interested to procure one or two females of the same breed as the sire in use. They are gradually growing into pure-bred herds in a safe way. These men were keeping records of the cost of production, were using commercial concentrated feed stuffs, building silos, growing alfalfa and manifested a keener interest in everything pertaining to soil fertility and better crop production.—[R. S. Shaw, at International Exposition.

A RATION FOR DAIRY COWS.

To the Editor of The Homestead:

A Warren county, Iowa, subscriber writes as follows:

I have corn fodder, hay, corn and can buy oil meal, cottonseed meal, bran and shorts. Could you fix me up a ration for my milk cows out of those feeds?

The subscriber has not said what kind of hay he has on hand and as there is such a wide feeding difference in the various kinds of hay it will be necessary to give two or three rations in order to fit his case. Supposing he has mixed timothy and clover hay, a very good ration could be compounded as follows:

Ten pounds mixed hay.
Three pounds bran.
Three pounds corn and cob meal.
One pound cottonseed meal.
Corn stover ad libitum.

This will give a nutritive ratio of from 1:6 to 1:7 depending on the amount of clover the hay contains. A ration including all clover of a good quality can be made up in the same manner except that the cottonseed meal could be cut out. The above rations are calculated for cows in a moderate flow of milk. If the subscriber has exceedingly heavy milkers he should increase the feed of the grain mixture accordingly. If the cows are approaching parturition and it is desirable to dry them off, a very light feed of the grain mixture, say two or three pounds a day with all the hay and stover they will clean up will do.

I have found it convenient to mix the above ration in 100-pound lots by dumping 300 pounds of corn and cob meal. One hundred pounds of cottonseed meal and 300 pounds of bran on a smooth, clean floor and scooping over several times till it is thoroughly mixed. Then for feeding, cut an oyster can down until it holds one pound of the mixture and use it when feeding. To get the best results it is necessary for one person to attend to the feeding and do it regularly. In all my feeding experience I think I have never fed an animal that responds as quickly or as certainly to regularity and quality of feed as a good milk cow.

O. O. Brewbaker.

Last year this muslin sack of "Bull" Durham was bought by more millions of men than all other high-grade smoking tobaccos combined—more than 352,000,000 sacks sold, nearly a million a day!

This homely muslin sack is a familiar sight the world over—because "Bull" Durham Tobacco is sold and smoked in every corner of the globe! It has been the standard smoking tobacco of the world for three generations.

"Bull" Durham comes to you in this plain, muslin sack because the *quality* is *all in the tobacco*—where it *belongs*. There are no "premiums" given with "Bull" Durham—the tobacco is *a premium in itself*—and more millions of smokers are discovering this every year. The sales for the last year have been greater than during any other year in the fifty-three years "Bull" Durham has been on the market.

GENUINE
"BULL" DURHAM
SMOKING TOBACCO

(Forty "rollings" in each 5-cent muslin sack)

"Bull" Durham is the cheapest luxury in the world—and the most universal. In pipe and cigarette it is the *one* luxury of millions of workers of all kinds—the *favorite* luxury of hundreds of millionaires—because this pure, honest, thoroughly good tobacco affords a degree of enjoyment and satisfaction *not found in any other tobacco!* No matter where you are, you can always get "Bull" Durham—and get it fresh. It is sold by more dealers throughout the world than any other single article of commerce!

A book of "papers" free with each 5-cent muslin sack.

Blackwell's Durham Tobacco

This famous "Bull" sign is the most widely known and recognized advertisement in the world. "Bull" Durham tobacco is the most favorably known and widely smoked tobacco in the world.

VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

LUMP JAW.

I have a Jersey cow that has a large jaw and I am satisfied that it is lump jaw. This enlargement is hard as bone and does not suppurate. This cow is four years old and a good one outside of this trouble. I would like to know what steps to take to relieve this condition.

If the bone is badly involved, treatment will not be likely to prove profitable, but when soft tissues are affected they may be cut out or sloughed out by caustics. Iodid of potash may also be given internally, but it causes inaction and shrink of milk and may induce abortion. You can get a free bulletin on lumpy jaw by writing to the department of agriculture at Washington. Meanwhile it would be well to have a graduate veterinarian examine the cow.

GROWING MANE.

(1) What preparation is best to make hair grow on the mane of a horse? The mane has worn off very short and I think it was caused by dandruff. (2) What is the heaviest two-year-old horse in the state of Iowa?

(1) Scrub parts perfectly clean with soap and hot water. When dry pour on and rub in a little of a mixture of equal parts coal oil and machine oil Repeat twice a week. On other days apply a creamy mixture of sulphur and sweet oil. (2) It would be impossible for us to say.

LAMENESS.

I have a six-year-old dapple gray mare that drags her hind feet. She seems to be a little stiff in the hocks. This trouble is of two years' standing and seems to be getting slightly worse. I have done nothing for it so far. Can this be cured and if so, in what way?

It you are feeding her hay from ripe millet that explains the trouble, for such hay causes hock lameness of rheumatic character. If no such cause is present and removable, chances of recovery are poor, but you might try the effects of half an ounce of salicylate of soda given two or three times a day in feed. Allow her a box stall in stable.

SUMMER SORE.

Having received much benefit from your paper I would like to ask some advice or information. I have a yearling mare which has been running in the pasture all summer. Between her knee and ankle on hind leg is a spongy, raw or bloody surface wart about three inches long by two wide and an inch or so high.

Such sores tend to subside in cold weather, but reappear in summer. Better have a veterinarian cut out the sore and cauterize the wound; or he may prefer to use caustics to slough off the surface layers of the sore. They are very difficult to heal. The sloughing may be accomplished by applying a little powdered yellow sulphuret of arsenic after smearing lard around the sore. The animal must not be allowed to bite the sore.

COUGH.

I have a bunch of hogs that have a cough, seeming to cough more in the morning than during the rest of the day. They eat good and are doing fairly well. They also have the itch, but I have sprayed them with a dip. It seems to me that they must have the mange. If so, how can I get rid of it? They were vaccinated about six weeks ago. How long will vaccination last?

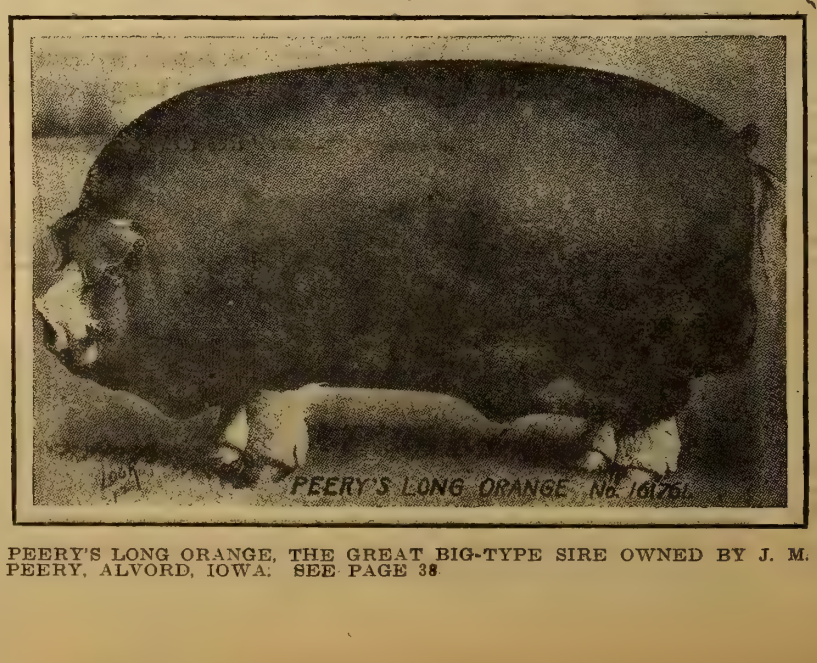
Lung worms commonly cause cough of the kind you describe and there is no practical cure. Hogs tend to outgrow the trouble if well fed. See that the beds are clean, dry and free from dust. Dirty beds tend to cause skin disease, which is not true mange. Lice may also cause irritation. Wet or dusty beds may induce cough. Repeat the spraying and then rub in sulphur on affected parts of skin. Single vaccination makes the hogs immune for a few weeks; double vaccination causes permanent immunity. The man who vaccinated your hogs will give you the information desired.

INJURED HOOF.

I have a bay filly, two years old last June, grade Percheron, which weighed 1,200 pounds in August. On September 4th she got into a wire fence and cut her left front ankle between the pastern joint and hoof. It was cut deep and badly haggled up three-fourths of the way around. Being away from home at the time and returning about four days later, I washed the wound with a solution of creoline and water and then greased it with raw linseed oil and carbolic acid mixed twice a day and left her in the pasture. It seemed to be doing all right, as far as I could see, until about three weeks later a rain came up and I put her in the barn until it was over, then turned her out again, as she was discontented in the barn by herself. There was some dew for several nights, which is uncommon in these parts, and her ankle and foot began to swell and run pus. I then put her in the barn and have kept her there ever since. I lanced her foot in six or seven places and the hoof came off. No graduate veterinarian being available, just before the hoof came off I had a horse doctor examine her, and he prescribed a hoof tonic composed of oil of tar four ounces, oil of organum one ounce, oil of linseed six ounces, alcohol seven ounces, to be applied to her foot about three times a week, and one teaspoonful of nux vomica once per day. Both of these I am still using. He also prescribed a lotion composed of one ounce sulphate zinc, three ounces sugar of lead mixed with boiled water to make three quarts with which to bathe her leg, which was badly swollen at that time, but as there is very little swelling present now I have discontinued the use of this lotion. Ever since I have had her at the barn I have had to keep a broomstick fastened between her halter and her ankle to keep her from biting the sore. The hoof came off about seven weeks ago and the new hoof has made quite a good growth on one side, but very little on the other. Two pieces of bone have come out at the bottom and it runs some pus and a good deal of juice of some kind from the bottom where the frog of her foot should be. The cuts are healed over in a way, but still slough off a good deal, and at the top of the new hoof, just at the edge of the hair, it is inclined to rot away. There are large running sores on both hips which I wash out with a solution of cresylic ointment and inject tincture of iodin into them. The filly is very thin and will not lie down in the barn, but I let her out in the stack yard nice days where she lies down. I feed her kafir corn and maize heads and kafir corn fodder. Her appetite is good.

Unless you can have the filly properly treated by a graduate veterinarian it would be humane to put her out of her misery, as there is open joint, indicated by leaking of synovia, besides the infected condition described. Even with the most expert treatment it is quite unlikely that satisfactory recovery will take place.

Since a sire of any kind is more apt to breed back and deteriorate slightly, rather than improve through his offspring, it is obvious that one cannot hope to build up his herd or flock without first investing in pure-bred sires to head these herds and flocks, at the same time culling out and disposing of all females every season that are not true to type.



PEERY'S LONG ORANGE, THE GREAT BIG-TYPE SIRE OWNED BY J. M. PEERY, ALVORD, IOWA. SEE PAGE 38

Horse Lameness
Hog Cholera
Poultry Distemper

Sloan's Liniment is a quick and safe remedy for any kind of lameness in horses, for cholera or distemper in hogs and chicken distemper or roup.

Good For High Lameness.

Mr. BAILY KIRBY, of Cassidy, Ky., writes:—"I used Sloan's Liniment on a mule for 'high lameness' with success. I am never without a bottle; have bought more of it than any other remedy for pains."

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A. J. MCCARTHY, Idaville, Ind., writes:—"My hogs had hog cholera. I have used Sloan's Liniment now for three days and they are almost well. One hog died before I got the Liniment, but I have not lost any since."

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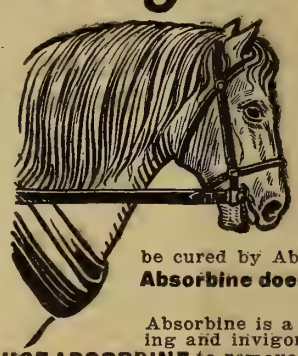

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POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof before the winter sets in. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd. John Dobry Mfg. Co., Cedar Rapids, Iowa.

Farmers Sons Wanted with knowledge of farm stock and fair education to work in an office; $80 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. The Veterinary Science Association, Dept. 22, London, Canada.

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

IN THE SHEEP-FOLD.

Select sheep that mature early for breeders.

Keep only the best of your flock, and only what you can properly feed and care for.

Sheep are the missing strong link in many a farmer's system of crop rotation and stock production.

Buying sheep from the stock yards and placing them in one's breeding flock at home is risky business.

Any building where the sheep get their backs wet and their feet muddy is not what could properly be called shelter.

The farmer who is keeping abreast of the times, recognizes in the sheep a sure profit maker and soil builder in a single animal.

Because the sheep wear warm coats of wool is no reason why they should be exposed to piercing winds, bitter cold and chill, driving rains.

Fortunate, indeed, is the breeder who choses for his herd a ram full of vim, activity and alertness, without combining treachery and ill temper with those most desirable qualities.

There ought to be universial law against a farmer buying a pure-bred flock of sheep when he hasn't the knowledge necessary to maintaining the principles that produce and improve the excellence of such flocks.

Show us another farm animal that will so quickly and effectively clean up all the odd nooks of grazing and small bushes about the farm, kill out the weeds, and add to the fertility of the soil as the sheep. These features are what lower the cost of wool and mutton on the farm.

The farmer who has learned how to handle sheep in a manner that will promote good health and vigor among the animals, and how to keep sheep killing dogs off his premises or away from his flocks, is on the highway of successful and profitable sheep raising; otherwise, he may find it a hit-and-miss business.

One of the greatest drawbacks to efficiency in sheep raising is the lack of variety in their rations. While a little clean, tender roughage and some shelled corn will carry them along, the cost of wool and mutton production really will be cheapened by furnishing the animals with more of a variety, especially in the matter of grains. A few oats and bran mixed with the corn will keep them in so much better condition that less grain will be required to maintain the tissues of the body and promote the growth and development of wool and mutton.

WINTER FEEDING OF BREEDING EWES.

To the Editor of The Homestead:

Sheep naturally consume large amounts of succulent feed. Green stuff of some kind must be provided during the winter to take the place of the summer pastures so our plan has been to plant a couple of acres of rutabagas every year, to secure this necessary succulent feed. The bagas are cut up into small pieces and fed morning and evening and are greatly relished by the ewes, especially when on a dry winter ration, and they are without doubt the best of all succulent feeds, and cheap also. On our farm in northern Wisconsin we have no trouble in raising large crops of rutabagas, but in some places they do not grow so well and are more expensive. If the bagas are not available good corn silage may be substituted. Silage must be fed with great care to breeding ewes, for if it is sour or too much is fed there will be trouble. Too much silage causes large flabby lambs which are weak at time of birth and very liable to die.

Moldy silage is also dangerous to feed. Experiments at the Wisconsin Experiment Station have shown that two pounds of succulent feed per day is plenty for a breeding ewe. Timothy hay is a very poor sheep feed and should never be fed if it can be avoided. The tough, woody timothy causes indigestion and constipation. The seeds also get in the wool making it dirty and gives the sheep an unthrifty appearance. We have always had plenty of good clover hay on hand for the winter's roughage. Either alfalfa or clover is good; the alfalfa having a slightly higher protein content. We have found the clover produces good results and have fed it because it was at hand.

The grain ration for breeding ewes does not need to be heavy. Too much grain is almost as bad as none at all. A few weeks before lambing is time to start on a light grain feed, increasing it gradually so that when the lambs come there will be a good supply of milk provided by the ewes. A good grain mixture is equal parts bran and oats, which can be fed twice a day. The amount to feed depends largely on the condition of the ewes and must be left to the shepherd to decide. A good crop of strong lambs cannot be expected if the ewes are not given plenty of exercise throughout the winter. Every nice bright day they should be driven out into the fields or they may have a feeding place a long way from the home sheds and thus compel exercise. Success will follow such a system.

F. E. Huser.

CLEAN, BUT NOT FUSSY.

To the Editor of The Homestead:

Not long since at a farmers' meeting I heard two things advocated relative to sheep management that I am sure are wrong. First, the speaker advocated cleaning out the sheep barn every week or two during the winter. Of course, I would not for a minute have the sheep kept in dirty quarters, but if they have plenty of litter under them they will be clean, and the animals will keep it so firmly trodden down that there will be no offensive odor or loss of ammonia.

With a plentiful supply of bedding under them, the liquid excrement will all be saved and the manure worth much more than if there is no accumulation of bedding under them as an absorbent. Then, too, if the lambs are born in the winter, the fact of there being a foot or so of litter for them to drop on, instead of on the floor or ground, may mean all the difference between a lively or a chilled and perhaps dead lamb.

The other was the advice to feed the following winter, lambs born in February or March. First, such lambs if they are crowded along will be worth as much at ten weeks old as when ten or twelve months. Surely not a profitable thing to do. I have fed a great many lambs, and have always made most money when I put in late lambs weighing about sixty pounds each. Such lambs are usually growthy, having had plenty of their mother's milk until the fall feed came on. It takes less feed to maintain them, and there is a frame to develop, on which can be put twenty to forty pounds of bone, flesh and fat.

The early lamb has probably become thin (if not, he would better have gone to market), and any young animal that has had a setback in its growth will never make so good a feeder. Neither will there be a chance to put on very much more weight, other than to fatten them up. It will also cost more for a maintenance ration. The same money will buy 100 lambs, each weighing sixty pounds, that would be required to buy about seventy, weighing eighty pounds each. I can put thirty or forty pounds on the former as cheaply as I can put twenty pounds on the latter. As between the two, the extra ten or twenty pounds will be clear profit.

W. H. Underwood.

RESTORING NEGLECTED ORCHARDS.

A subscriber writes:

I have lately inherited a small farm in eastern Nebraska, and upon it I find an old orchard of about fifty trees. It has been neglected, untrimmed and is in grass. Some of the trees have dead limbs, but none of them are entirely dead. The neighbors tell me that a few years ago it bore fine crops of good, salable apples. Now, I want to ask you if there is any process by which such old trees can be renovated, or had I best cut them all out and plant a new lot? I incline to the last plan.

We would advise this subscriber to go a little slow about cutting out an orchard of fifty trees, not one of which is yet dead. There must be a great deal of vitality there, and we infer the trees have not been planted over eighteen or twenty years. Its present unthrifty condition is doubtless due to lack of care. Very probably it has had no manure and has been pastured, or had crops of hay taken from it continually for some time. If you will reverse the treatment of those trees, and instead of starving and neglecting them, give them feed and care, you will reverse the present condition.

We advise this treatment in the effort at restoration. Give the trees a good, careful trimming, but do not put a rough, unreliable hand at the job. It is a job that must be done with sense and discretion. Cut all the dead wood away and then thin out the tops, so that the sun can reach all parts of the tree. Paint over all cut surfaces either with white lead or a thin grafting wax. If you find rotten wood or holes in the trees, clean out thoroughly and fill with cement. Mix with one part of cement to three parts of sand. Be sure to remove all the rotten wood first, for if that is left it will make your tree rot more and more.

Go over all your trees and scrape off the rough, broken bark. That makes a hiding place for insects. Then wash the trunks and all large limbs with soap suds (use soft soap) to which you have added carbolic acid, at the rate of one tablespoonful to a pailful of the suds. Burn all the brush and rubbish which you can gather. In this way you will destroy hosts of insects and their progeny, which would otherwise survive to trouble you next season. Then if you have time before it freezes up, plow and disk the ground thoroughly. If you cannot do it this fall, do it the first thing next spring. Have the sod removed from about the tree trunks and put loose dirt in its place. Then manure the patch. You do not say how closely your trees are planted. But they perhaps cover an acre or three-quarters of an acre. Put on fifty good two-horse wagon loads of barnyard manure. It is better to have it well or at least partly rotted. But put it on anyway. Scatter it evenly over the surface. Don't do as one farmer did who had been told to manure his trees. He piled a wagon load about each tree, three feet deep, close to the trunk. That was doing a right thing in a wrong way. He followed directions too literally, like the man, when told to set his plum trees in clumps, dug a small hole with a spade and put five trees in that one hole.

Then in midsummer go over the patch with a disk, or at least a good harrow, and if the grass starts up well plow it again next July or August. Your trees ought under this treatment start a good growth at once. And that is what you must have before you can expect fruit. Once get the growth started and you will have plenty of fruit buds. If the second season after your treatment begins is a good apple year, you will get some reward for your labor. And after that constantly better returns for some six or eight years. Put on more manure every second year.

Get posted upon the modern ways of fighting insects—don't let the trees get hidebound again, and you will find your old orchard good for ten years of service. And meanwhile you had best plant another in a different place.

The above engraving is a likeness of a few imported draft stallions to be found in the barns of A. B. Holbert, Greeley, Iowa. This firm has 150 stallions and mares for sale and more importations coming. See page 45.

Try not to let the water troughs and tanks run over and get a glare of ice started around them when the water freezes, as such spots are dangerous to both man and beast. Where any already have formed, scatter old hay, straw, manure or brush over them some day when the ice is thawing slightly, about noon. When it again freezes that night, this material will adhere to the ice and form a rougher surface for the stock to stop on, thus making it safe for them to walk up and drink.

Now is a good time, before the heavy snows of winter fall, to rake up the cobs in the hog lot and burn them in one large heap, putting the drier ones in the bottom of the pile and adding the damp ones on top as the fire gets started well. This not only cleans up and renovates the pen, but it will supply the animals with that excellent corrective, appetizer and tonic; charcoal.

SHEEP

REGISTERED SHROPSHIRE RAMS

FROM best imported stock. Fifty head rams to go at quick sale from $15 to $25 each. These are thrifty, weigh up good, and include lambs, yearlings and a few two year olds. Will also offer a select lot of ewes. Angus cattle of best types for sale at all times.
A. C. BINNIE, - - Alta, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2 year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address
H. H. REED, - MARENGO, IOWA.

40 Yearling and 2-year-old Shropshire

RAMS FOR SALE AT PIKE TIMBER STOCK FARM.
DAVENPORT & MACK. Belmond, Iowa.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable.
Willard Miller, R. F. D. No. 2, Anita, Iowa

The New Year's Outlook.

By M. Coverdell.

LOOKING back is a dangerous act (one is so apt to stub his toe and fall, or meet the fate of Lot's wife), but as we pass from the shadows of 1912 and emerge into the full sunlight of 1913 it will be well for us to pause and reflect upon the agricultural achievements of the past year, and to lay plans for a better season. While most of us doubtless have improved our methods of farming, with its allied interests of live stock raising, poultrying, etc., none will deny that there is still plenty of room for improvement along every line.

We boast of our national resources and advancement, yet, if you will investigate, you will find us far in the rear of many other nations. We have been the last of our European sister nations to adopt the postal savings bank (and ours is a poor excuse for the beneficial institution it should be to the common people). Parcel post is in successful operation throughout Europe, and we could well learn many a lesson in soil management from our foreign brothers in the country, since they still are feeding more people for every tillable acre of land than we are, and on land that they have farmed for hundreds of years.

Outside of the above-mentioned causes and others of like merit there are many items of improvement that may be instituted around the farm. We can, and at a small cost, secure pure-bred stock and poultry for breeding purposes, and thus raise the standard of our flocks and herds. Systematic bookkeeping will greatly assist in putting the farming on more of a business basis. We can learn by experiment that scientific feeding and careful handling will about solve this question of high-priced feed, and that the farmers must show a solid, well-organized and intelligent front in coping with market conditions and in the disposal of their products.

There is a pressing need of more conservative methods, not only in our farm management, but in national affairs. If our children and our children's children are to be given a fighting chance for the necessities of life we must be more conservative in draining the land of its fertility, and this can best be accomplished by feeding all of our crops to animals on the farm, returning their manures to the fields, thereby giving back to the soil the vitality which those crops sapped from it for sustenance in their development.

We thus will not only be practicing conservation of soil fertility, but will greatly assist in solving the meat problem now confronting the country. Crops must be systematically rotated to rest the ground, and more of the leguminous plants, such as clover, alfalfa, vetch and cowpeas, be grown as rejuvenating crops. The saving of various waste products as fertilizers may be made to play an important part in this soil conservation.

The conservation of our national forests, coal lands and other natural resources demands immediate and continued attention, and while the farmer cannot assist personally in this movement, he can help in no small degree by protecting and fostering his wood lands, at the same time voting intelligently for those national officers who show by their actions that they have the future welfare of the country at heart; who love and serve the common people and pander not to the gold of the money bards by permitting their ruthless hands to destroy those natural resources upon which so much of the happiness and comfort of our future generations depend.

While much is being done to establish a good roads system throughout the country we still are sorely in need of better highways. Be a good roads booster this season; do your part of the actual improvement; attend every good roads meeting; write to your congressman asking him to support any worthy bill providing better roads or a good roads appropriation. Why not thus spend a small per cent of the enormous sum we are lavishing on our army and navy departments?

It is sad and lamentable, but none the less true, that our rural churches are deteriorating in membership and spiritual enthusiasm. Not only do we frequently see country churches without a pastor, but in some cases the structure that was reared for the worship of the Creator of all things is actually deserted, weather worn, and fast crumbling to ruin. All of us need to exert more influence in establishing the country church on a firmer basis, for it is of all rural institutions the most potent in shaping character, purifying society, and building up the neighborhood in general.

That there is something radically wrong with our present school system, every intelligent, thinking farmer is beginning to realize. Our school buildings are inadequate to the requirements of present-day education; while the playgrounds need improvement in size, utility and attractiveness. Then the course of study is not adapted to the needs of rural pupils. We must place our system of education on a basis that will furnish our boys and girls with more practical knowledge—teaching that will enable them to solve the everyday problems of farm life through the instructions received in the schoolroom.

Let us resolve that this will be the best year of our lives in and around the home. All of us can make many improvements. We can lighten the work of the housewife by supplying modern machinery and labor-saving devices almost without number. The men and even the work teams can be favored in this respect by installing those implements that are modern, up to date and easy of operation.

Literature, music and various forms of amusements may be made to add materially to the attractiveness and comforts of home life, thus keeping the boys and girls from seeking those things in the glare of the great cities and abandoning the old farm. A neat grass lawn, flowers, shrubbery, attractive yard fence, nicely painted house—all these work toward establishing surroundings that will entwine the heart of every member of the farm household till, some day, who knows but that it may be through memory of it that some prodigal boy or girl will wander back to the old homestead?

DEFECTIVE DISTRIBUTION.

B. F. Yoakum, chairman of the Frisco system of railroads, has made a study for years of the causes for the low prices that farmers receive for their products while consumers pay very high prices. He finds the cause, not in high railroad charges, only partly in "trusts," but mostly in an antiquated and wasteful system of marketing. In World's Work he says:

It cost (last year in the United States) $7,000,000,000 to distribute $6,000,000,000 worth of products from the farm to the producer.

New York City's total bill for one year for eggs, coffee, rice, cabbage, onions, milk, potatoes, meat and poultry, was $464,147,000. Out of that the farmer received $274,289,000, or 59 per cent; the railroads received $25,045,000, or about 5½ per cent; and the cost of selling and profits on the products was $164,813,000, or 35½ per cent.

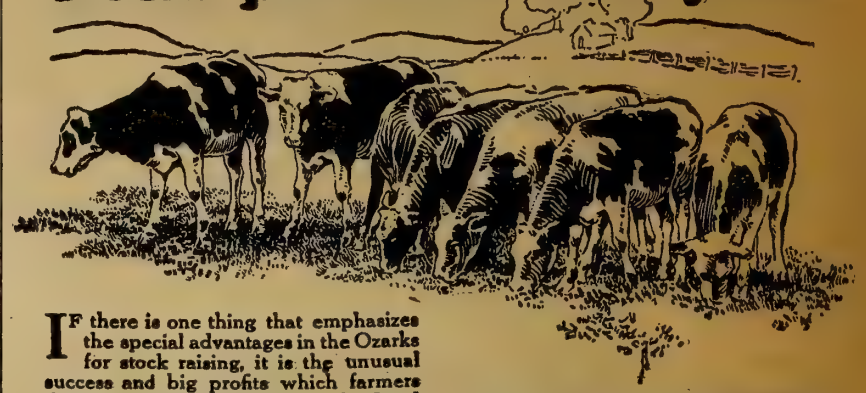
The following table shows a few important items of daily food, what the farmers received for them, and what the consumer finally paid for them.

	Farmer Received	People Paid
Eggs	$17,238,000	$28,730,000
Cabbages	1,825,000	9,125,000
Milk	22,912,000	48,880,000
Potatoes	8,437,000	60,000,000

From my own investigation, made some time ago, I was persuaded that the system of distributing food in New York City was little short of a disgrace to the city. In August, there was published the digest of a report to be made by an independent committee acting under authority of the state. This preliminary report contained general figures that seem to bear out the impressions I gained from my own researches. The annual total food supply is estimated to cost $350,000,000 at the city terminals; that is, with all freight charges paid. The consumer is reckoned to pay $500,000,000. It is flatly stated that the difference is made up mostly of cost of handling, and not of profits. In fact, it is stated that the average small dealer, the corner grocer one hears so much about, does not make more than a bare living for himself and his family. It is roughly estimated that the simple inauguration of a fairly scientific method of marketing would save at least $60,000,000 a year in New York City, or about one-fifth of the total amount that the producer receives for his products.

Here, then, is one definite figure, which throws at least some light upon the question where that $7,000,000,000 goes. New York, in its marketing methods, is no worse than any other large city. I think it is better than some, and probably stands as about an average. Assuming that it is a fair average, it would mean that about 12 per cent of the total amount the consumer pays is paid to make up for pure waste in marketing methods. That would be approximately $1,560,-

"Baby beef" is bringing Ozark farmers $50 per head profit in one year



IF there is one thing that emphasizes the special advantages in the Ozarks for stock raising, it is the unusual success and big profits which farmers there are making with baby beef. Good stock, after one year's feed, is bringing them $50 per head profit!

Here is the plan that the Ozark farmer is following to get such profits. He buys up good grade calves at $15 to $20 a head (providing he dosn't raise them himself). Then, instead of letting them "mosey along" until the second year with just enough rations to keep them in good trim, he starts feeding them for quick flesh gains *right away*. The calves are put on flesh-producing field grasses until after corn is harvested; then the shocks, with a little extra now and then, keep them going until January. That leaves only three months of winter feeding (for pasture is green again by April 1st).

By that time the beef will weigh around a thousand to twelve hundred pounds easily, and will top the market at $8 a thousand or more. The feeding, on account of the short winter and other advantages in the Ozarks, doesn't cost more than $25 per head, all told—that's a clean profit of around $50 from every baby beef.

It's a mighty profitable business, and Ozark farmers are not slow to take it up.

Baby beef is just *one* way of making money in the Ozarks. It is *just one* example going to show why all kinds of stock raising is so profitable in the Ozarks. Hogs, for example, bring Ozark farmers around 5 cents a pound profit, because they cost so little to produce per pound—only 2½ cents, or less. Sheep make $12 per ewe easily, and Ozark dairymen are getting $8 to $10 per cow per month, regularly.

The reasons for these profits are easy to understand. The Ozarks have very mild, short winters—good pasture from April 1st to January 1st—only three months of winter feeding. Right there is a mighty big cut in costs.

The soils of the Ozarks will grow practically every variety of grass, and forage crops—alfalfa, peanuts, cowpeas, corn—all the quick-fattening products.

The Ozarks have an unlimited supply of pure water, splendid drainage and a healthful climate that keeps stock sickness down to the minimum.

The Ozarks are *right at the doors* of St. Louis, Kansas City and Memphis—big markets offering the very highest quotations for all kinds of stock and farm products.

But all these advantages mean more when it is realized that good land can be bought now in the Ozarks at $12 to $15 per acre. It's a proposition that deserves any man's serious thought and investigation right *now!*

A free book for you!

It's not the kind you can pick up anywhere. Double sized pages, 75 actual photo pictures of farms—some in full color. Written by a man who knows farming. Takes up the Ozark sections, county by county, and describes the farming conditions there. Also tells actual experiences of Ozark farmers. I haven't many copies of this book on hand; please drop me a postal to-day for your free copy.

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000,000 out of the $13,000,000,000—would be more than $1,500,000,000 thrown away in 1911.

My own figures on transportation cost show that the railroad freight earnings of the whole country on agricultural products are less than 4 per cent of the total paid by the consumer, or approximately $495,000,000 on last year's production.

Legumes and Soil Inoculation.

By W. A. Freehoff, Wisconsin.

IT HAS been claimed and sometimes taught that in order to enrich a piece of poor land it is but necessary to grow clover or alfalfa upon it. In actual practice this does not always work out as planned. Legumes to be able to take nitrogen out of the air must be infested by a certain type of soil bacteria that co-operates with the plant in the process. Little buds or nodules are formed on the roots of the clover or the alfalfa plants which act as the host for the bacteria and as a storage chamber for nitrogen.

There are really two great methods of taking atmospheric nitrogen from the air into the soil; one is that already mentioned, and the other has not yet been very clearly described in farm literature.

In the advertising literature sent out by some firms, the farmer is told that if his clover or alfalfa does not grow, he must inoculate. They are prepared to furnish enough bacteria, or pure culture, at $2 or more per acre, to get the soil into proper condition. What they do not tell the farmer is that alfalfa may not have grown because of poor seed, badly drained land, unsuitable soil, or weed competition. They do not say anything about a condition of land known as clover sickness brought on by continued cropping of clover, nor that liming might solve the whole problem. Neither do they mention that it is never necessary to inoculate for clover, anyway. If clover will not grow the soil is in such condition, generally of acidity, that the proper bacteria are killed.

On the other hand, it has been demonstrated too often in practice that by the introduction into a new field of soil from a field which had been cropped with alfalfa growth was secured where nothing but failure had been experienced in the past. Even the once entirely despised pure cultures have at times returned dollars for cents expended. Bacteriologists and the soils expert admit the utility of inoculation for alfalfa and a few of the less common legumes.

This inoculation, however, must not be done blindly. If the propor bacteria are already present it would be throwing good money after bad to buy infected soil or even pur cultures. Again, the soil must be in such condition that the proper bacteria are not killed if introduced. If the soil is acid, some form of lime must be added, for alfalfa and clover require a sweet soil.

It is a mistaken notion that these bacteria can take the place of manure. Somewhere farmers will read that legumes enrich the soil, particularly with nitrogen. So they take a piece of worn-out land, buy some alfalfa seed and inoculated ground, and scatter the two over the field. But no glorious crop of alfalfa follows. Bitter experience has taught that alfalfa and clover must be started on comparatively rich soil, and soil that is well drained. They are heavy feeders and must be well nourished from the very beginning. Alfalfa, especially, must be of some size before enough nodules form on the roots to supply sufficient nitrogen for the needs of the plant. Again, farmers are misled into the belief that the mere growing of any legume will enrich the soil, or at least keep it at its original state of fertility. This, also, is a fallacy. It is true that where there is a good stand of alfalfa or clover the bacteria store nitrogen in the roots, but it is also true that more nitrogen than is stored in the roots is used in the growth of the plant. Thus if hay is cut season after season there is a slow but sure depletion of the soil, not only in nitrogen, but in other mineral elements. This tendency is not so pronounced in clover nor alfalfa as in the less common legumes like cowpeas, beans and vetches.

How then may the fertility of the land be increased by the use of legumes? There is one way, and only one way. After determining whether the soil is acid or sweet one must manure it heavily, either with commercial nitrogen or barnyard manure. With the alfalfa seed, if alfalfa has been selected, should be sowed about 100 pounds of inoculated soil to every acre of land. If the seed bed has been properly prepared little difficulty should be experienced with weeds. Once a crop is started, it is all right to cut it for hay for at least one season. Alfalfa is cut several years as a rule. But it is greatly to be desired that one full crop be plowed under when the rotation is changed. In the case of clover, vetch, peas and soy beans it is imperative that a crop or two be plowed under on a certain piece of land, as these contain as much as 85 per cent of all nitrogen in the stems and as little as 15 per cent in the roots.

While the legume bacteria all belong to the same family and resemble each other externally, there is enough difference between them to prevent bacteria native to alfalfa from flourishing on clover, or vice versa. Each legume, with a few exceptions, has its own special bacterium. The most notable exception is the sweet clover organism, which may be used in inoculating alfalfa fields.

The thrift of legumes being now generally admitted as being in direct relation to the virility and number of proper baeteria in the soil, physical and chemical conditions correct, the probem of the soil bacteriologists develops into the supplying of pure culture that may be used by the farmer with certain success and which is not prohibitive in price. This pure culture has not yet been prepared, although several firms in this country and in Europe claim to have done so. Until they prove out to the satisfaction of the experiment stations, however, the farmer had best rely on the old-fashioned methods of using inoculated soil, provided inoculation really is needed on that particular field.

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You will find here good schools, good roads, telephones, rural delivery, electric light and power, trolleys, and a "get-together-and-help-each-other" spirit that makes the newcomer feel at home at once.

The Santa Fe has published a folder about the San Joaquin Valley which is filled with information for the homeseeker. It gives the experiences of people who have taken up different lines of farming, and tells of the results they have secured.

Read the book; then see the country. It will cost but little. Go now, while work is slack. The Santa Fe runs low-fare homeseekers' excursions to California, and elsewhere southwest, on first and third Tuesday each month. Time on the road, only three days from Chicago. I will gladly send the San Joaquin Valley folder free and give you full information about trains and fares.

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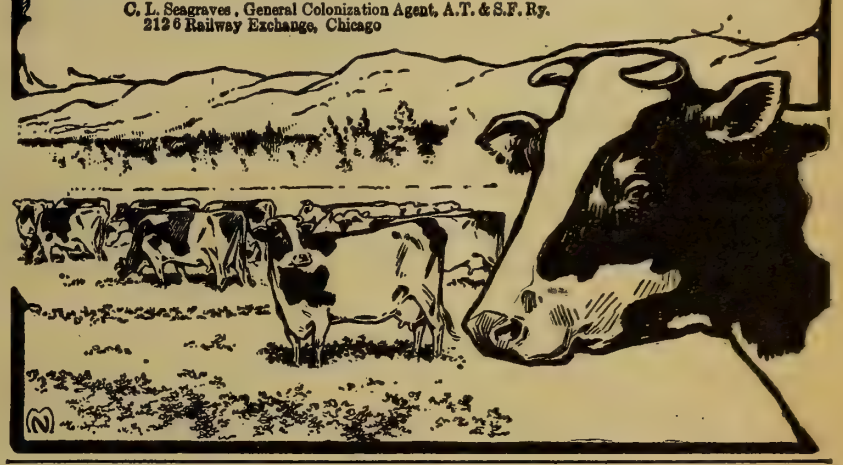

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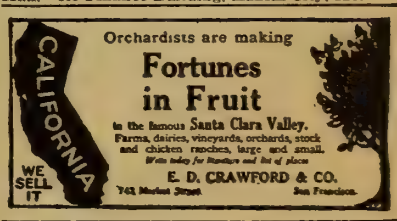

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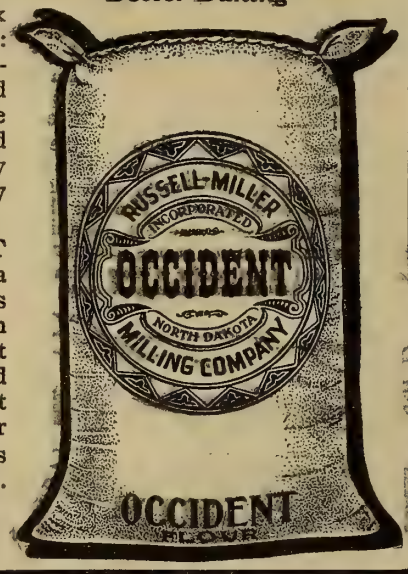
Send for Our Free Booklet, "Better Baking"



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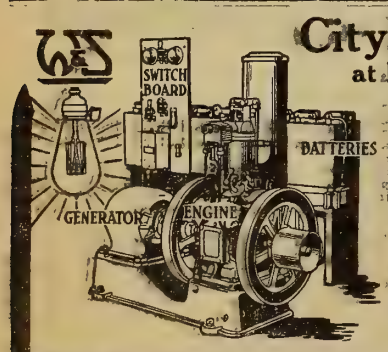

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WITH THE EDITOR.

Everyone who loves dumb creatures should feel grateful that the cause of animals has been championed at different times by men the world has delighted to honor. Every American knows how tender and reverent of animal life Abraham Lincoln was. He is one of many. Among others was that brilliant and popular lecturer, Dr. Talmage. One year, in his Christmas sermon, Dr. Talmage spoke as follows:

Behold, in the first place, that on the first night of Christ's life God honored the brute creation. You cannot get into the Bethlehem barn without going past the camels, the mules, the dogs, the oxen. The brutes of that stable heard the first cry of the infant Lord. Some of the old painters represent the oxen and camels kneeling that night before the new-born babe. And well they might kneel! Have you ever thought that Christ came, among other things, to alleviate the sufferings of the brute creation?

Not a kennel in all the centuries, not a bird's nest, not a worn-out horse on the tow path, not a freight car in the summertime bringing the beeves to market without water through a thousand miles of agony, not a surgeon's room witnessing the struggles of fox, or rabbit, or pigeon, or dog in the horrors of vivisection, but has an interest in the fact that Christ was born in a stable surrounded by brutes. He remembers that night, and the prayer He heard in their pitiful moan He will answer in the punishment of those who maltreat them.

The enactment of better laws, the multiplication of humane societies, and the enlisting of children in bands of mercy, have done much to better the lot of animals since Dr. Talmage gave utterance to those words, but dumb creatures still suffer from the thoughtlessness if not the cruelty of man. It may even be that the horses and the stock of some of those who read do not fare as well as they should.

By way of increasing their comfort at this season consideration might be given to cold weather stalls, water, food, etc. A lover of horses gave some capital advice to men having the care of horses when he said:

Let the stall be well lighted. A horse does not enjoy being in a dark, gloomy place any better than we do. A dark stable is injurious to the eyes, as the sudden change from it into the bright sunshine, especially when snow is dazzling bright in the winter, affects the sight. Nearly all the common diseases of horses may be traced to unsanitary stables. A horse must have pure air and a dry stable.

If you will note how the stock humps up and shivers these cold days after drinking of water that curdles into ice at the touch you will very soon come to the conclusion that for a sub-zero climate the tank heater is the thing. It stands to reason that before the animal can use this water it must be warmed up to body temperature, and that a good share of the fuel of the body must go into warming water rather than into building flesh or producing milk. Apart from its humane side, the cost of forcing stock to drink water out of an ice-bound tank should be carefully considered by the man whose eye is fixed on larger profits.

Warming his food has been of incalculable advantage to man. He gets greater returns in power and quicker returns in digestion. Your horses are likewise benefited by warmer food, and of course, you are the ultimate gainer. A bran mash at night is enjoyed by most horses—about two quarts of bran stirred into enough water to moisten it well. If the night is cold use hot water, and if very severe add a tablespoon of ginger. It will ginger up the animals for that trip in the frost next day. And what man who is anything of a horseman at all will ever forget to warm the bit first and not cause the poor brute's tongue to lose its skin from the icy contact.

Horses being so high spirited and intelligent make greater appeal to our sympathy than do cattle or swine and fowls. But all these creatures being our servants are dependent upon kindness at our hands. At this season when we are planning extra things for the comfort and happiness of our families, friends, and acquaintances, in order to quite fully carry out the real Christmas spirit, we should think also of our dumb animals and do what we can for them.

In Norway a Christmas dinner is prepared for the birds by tying to the top of a pole in the dooryard a large sheaf of grain. This is being followed here with variations. Instead of the sheaf, a little tree is dressed with bits of suet and bread. This is set on a broad shelf outside the window, a burlap foundation about it being liberally sprinkled with bird seed, chaff and hay seed.

This is a beneficial as well as a pretty fashion, and is the more to be commended because where the birds are so well cared for it is pretty sure that the farm animals are not neglected. Next year the farmer has more feathered friends to help fight the crawling pests.

HOME AND HOMEMAKING.

Don't ask, "Has the world been a friend to me?"
But, "Have I to the world been true?"
'Tis not what you get, but what you give,
That makes life worth while to you.
'Tis the kind word said to the little child
As you wiped its tears away,
And the smile you brought to some careworn face,
That really lights up your day.

'Tis the hand you clasp with an honest grasp
That gives you a hearty thrill
'Tis the good you pour into other lives
That comes back your own to fill.
'Tis the dregs you drain from another's cup
That makes your own seem sweet,
And the hours you give to your brother men
That makes your own life complete.

'Tis the burden you help another bear
That makes your own seem light.
'Tis the danger seen for another's feet
That shows you the path to right.
'Tis the good you do each passing day
With a heart sincere and true—
For through giving the world your very best,
Its best will return to you.

The devil is nearer to God by the whole height which he fell, than the average man who has not recognized his own need to rejoice and repent.

It is helpful and inspiring to almost any person to meet, associate and converse with other people. This is true in a general way, but it is particularly the case with reference to business. To come in contact with others, to hear them talk about themselves and their affairs and experiences, how they cope with difficulties, is helpful and inspiring, and every man is better off for having talked with others, especially other men who are successful and competent.

Every great man nowadays has his disciples, and it is always Judas who writes the biography, not for what he puts into it, but for what he expects to take out.

It takes high hopes, energy, determination, zeal, to carry big things through. Never has anyone succeeded who wore a perpetual grouch. Every big man is a hopeful one. He may see the pitfalls, know where the rocks are, but, like Mark Twain's pilot, he makes it his business to also "know where they ain't."

How much larger life would be if self could become smaller in it!

True it is that the great are few, the mediocre many, but the few who have scored highest in the business game are the men who have built on "quality."

The pilot cannot mitigate the billows or calm the wind. That is not his job.

Americans are noted for loving their homes, their home town, their home state and their home country. This love is the foundation not only of prosperity, but of liberty.

The way you look at life determines the way folk will look on you. If you are sunny, sweet tempered and try to make the best of the worst of it, you will get better than an even break with life, or fate, or whatever you want to call this existence, as the years roll by.

AMONG OURSELVES.

And this is our New Year's meeting! And this is our New Year's greeting! And as we meet for the first time "Among Ourselves" in this

year of our Lord nineteen hundred and thirteen, we come from our spheres of service to think together and to ask for and to give help. Without flaunting our opinions in each other's faces, or wounding each other's sensibilities, all along through the year whose passing has just been noted, we have given what we had to give, and gave ourselves in the giving.

You have spread a bounteous feast at the table the publisher provided and the editor laid—a feast where, no matter what or how much was taken, there was abundance left for everyone else. Good seed you have sown, and with a free hand. From the bitter as well as the glad experience of your lives you have given, withholding nothing that might aid others. It is well, friends. The sowing of such seed will bear a mighty harvest of choice grain. Your latest friendly act, your letters to "Sorrowful," have brought these words from her saddened home, into which your rays of light have penetrated with happy cheer: "They have cheered me more than I can express in words. They have given me much food for thought, and I am

Drawn Expressly for Montgomery Ward & Co. By Dan Sayre Groesbeck

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sure I am much happier for receiving them—the writers or friends that came to me in the darkest hours of my life."

In wishing all of you, those who wrote to her and those whose hearts went out to her, a happy New Year, "Sorrowful" says she has come to believe that there is no better way to have a happy New Year than "trying to win souls for Christ as those sisters are trying to do for me."

And this brings us to our New Year letters. I believe you will thoroughly enjoy the five that have been selected as the prize contributions this time. They are quite different from each other as you will see. They will be the chief courses at our first banquet of the year. But save some of your appetite for the "dessert" which follows. From ever so many letters there have been culled choice sentences for your special consideration. Perhaps one of your own is there. You may not have put it on paper. If not, take some along with you and may they refresh you and cheer you, not alone today or tomorrow, but in the night, in the storm, when anguish, or terror, or despair seems to hover near and may approach.

And as we wish each other "happy New Year" may the graciousness of it enter deeply into our lives to keep us in newness and brightness, in cheeriness and heartiness inwardly and outwardly each day and every day of nineteen hundred thirteen.

THE DAY OF HOPE.

A "happy New Year" literally means happiness throughout the new year, the very highest possible condition to be desired in life. Under such a circumstance one would be altogether at peace with himself and his outside world or environment. The mainspring of his life would make for contentment, gratifying his highest aspirations. Not a condition in which satisfaction would be felt in reviewing the fruits of his labor at the close of the year's work only, but one keeping him conscious of joy in his work all along the way. Upon how to secure this happiness, philosophers differ. It seems to have been decreed by God, however, that the only kind of work or thought that can possibly maintain in man a happy state of mind is the worthy and soul uplifting. No amount of material prosperity has ever been found alone sufficient to bring about a whole year's contentment, nor has any system of philosophy, no matter how subtle, been ever devised that could furnish even a poor substitute for the genuine article experienced by the Christian actuated by his God. The desire for happiness which God implants in every soul is the chief motive to seek "the kingdom of God." The trend of human affairs through this ceaseless yearning for inward peace has baffled philosophers who prophesy a "golden age" solely through the agency of man's intellectual and physical energy. The Christian alone remains unruffled, having been taught better by Christ, the greatest hero of all. For his sake let us approach nearer to each other and speak the "old-time greeting" with the genuine ring.

Thos. J. Hannon.

THE DAY OF FAITH.

I suppose there are almost as many different ideas of happiness as there are different people. I think that the greatest happiness of earth is that of the truly mated husband and wife, each loving and helping the other to be the best that is in them. Halving their sorrows and doubling their joys by sharing them, so happy in each other and their children that they seek to bring happiness to all who come in contact with them. But those of us who have missed this greatest good may still have the real and enduring happiness that comes from a clear conscience. To know that always we do what seems to us just and right, though some, perhaps even those who should be nearest and dearest, condemn us, that makes for some of us our happy New Year. Knowing that in our hearts there is no hatred for anyone, but only good will, even for those who misjudge us, and that we have been and are a comfort and help to our parents and have made, through difficulties, a happy home for our children, these, too, help to make a happy New Year. Then to know that you are one of that mighty host, millions strong, banded together by comrade love, who work unceasingly the world over for the greatest cause of all, the cause that will abolish poverty and war and bring real freedom to all mankind, that in itself is cause for a happy New Year. Then, in the words of the people's president, our great Lincoln, "Let us have the faith that right makes might and in that faith let us do our duty as we understand it," and all our New Years will be happy ones.

Belle Brant.

THE DAY OF ACTION.

The cast of old 1912 is disappearing over the hill and little 1913 will soon take his place among us. Let us keep him young and care free as long as we possibly can. At the very best our faults and follies will age him rapidly. Here in our little cottage beneath the pines dwell with us three little children, and to them we plan to consecrate 1913 who will bring to the oldest his fourth birthday. May mother and father be enabled to care for them better than ever during the coming year. May we be enabled to restrain that harsh word when little hands persist in mischief, and may we remember that the normal child must be active. We must invest a few hard-earned pennies or hard-earned moments of leisure to provide from our work box or tool chest playthings that will take their attention. Nineteen-thirteen will bring that time one year nearer when, with saddened hearts, we see the last of our fledglings leave the little nest and strike out to try their wings in the great world. Our parents tell us that, with all their cares and troubles, their happiest days were those in which their children played at their feet and they knew them to be safe from harm. In our home we seem to feel this and little Two Year Old, who can barely lisp, "I want to kiss sissy" (referring to his six-months-old baby sister) is petted and praised, as is our three year old, who has now succeeded in learning to talk as well as his parents. We believe in "spoil the rod and spare the child," rather than the old-time adage of opposite direction. While we are busily working on their clothes and caring tenderly for them in the home, or toiling all day long that they may have bread, let us not forget to make them realize this great love we have for them. If we have this feeling for them and express it, surely it will be difficult for the children to do things they know will grieve us. Then, too, perhaps more important than all the benefit that comes to the boys and girls, these loving words and thoughts in common will draw father and mother so much closer together that 1913 must bring to us, as we fervently hope, a happy New Year.

Wildwood.

THE DAY OF CHARACTER.

There is a feeling of timidity and shrinking with many of us in facing the new year. We know not what it may hold in store for us, but, could we know, it would be even moderately "happy." "A flower to the living is more than sumptuous wreaths to the dead." Happiness, as most of us theoretically believe, is a matter of character and choice, rather than of possessions or position. We frequently have illustrative object lessons along this line: A rich or fortunate (in our eyes) or distinguished person is profoundly unhappy, while one poor or hard-working or in hampering environment just bubbles over with the sheer joy of living. Again, one person's idea of happiness will differ materially from another's. Some long for ease; others desire wealth, and the means for travel, culture or helpfulness it affords; others (and among these I count myself) are happiest in having work which is both helpful to others and remunerative to self. "Heaven on earth," said the brilliant Alice Wellington Rollins, "is having work you love, and being well paid for it." My idea of a "happy New Year" is a succession of days crammed full of such work, and the personal health and ability to do it with ease. To have the confidence of little children and some share in helping them "grow up:" to meet and give back pleasant greetings from one's associates abroad, and to find love and peace always at home; to have time for a little travel, daily news of the world's work and an occasional book; to never lack for the financial ability to lend an unexpected helping hand when opportunity offers; in short, to feel that one is of use; filling one's own particular niche as no one else could, and to have and freely give one's "flower" here and now.

Agnes Rosenkraus.

MOVING DAY.

New Year's Day is the universal moving day. We must move whether we wish or not, from No. 1912 to No. 1913, and January 1st is the door of our new house. Since we have to move, why should we not take the opportunity of changing our ways of living? Nothing is cleaner than the future and January 1st is a fitting time to begin. It is only in so far as we have been generous and kindly and helpful in the past that we have realized any sound satisfaction out of life. The unselfish spirit of helpfulness, the thoughtful consideration of others is the keynote to a true life. Let freedom, fair play and friendliness be substituted for greed, grab and graft, and notice if the effect isn't gratifying. Let us not be discouraged if we cannot realize this great change at once, but on this and every succeeding New Year's Day we can each of us resolve to contribute our little part toward bringing the good time nearer, for "justice is the architecture" of the new house and its "courts are ruled by love."

"A little thing, a sunny smile,
A loving word at morn,
And all day long the day shone bright
And cares of life were made more light,
And sweetest hopes were born."

Mary of Canada.

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THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

LEARN THIS BY HEART.

Deem it not an idle thing
A pleasant word to speak;
The face you wear, the thoughts you bring,
A heart may heal or break.
—Selected by Sally.

ROLL OF HONOR.

Alicia	Irene
Bedouin	Johnnie
Carnation	Lilioke
Cleo	Miners
Dante	Minnesota Lassie
De Pera	Nebraska Farmer
Dixie Maid	Peggy
Eden	Pretty Poll
E. M. P.	Princess Zora
Fairbury	Retha
Flo	Silver Moon
Flotis	Sybil Lena
Goldie Lock	Thalia
Gwen	Violet Eyes
Happy Thoughts	V. L. M.
Wanola	

Those winning pansy badges this week are Imogene, Myrtline and Silver Moon.

The winner of the Christmas cards for first handiwork entry opened on December 16th was Dakota Blue Eyes.

Additional answers to the old verse puzzle have been received from Frances Ver Canteren, Nora Jorgensen and Marie Hachhousen.

No credit on the Roll of Honor is allowed for the following: No address given, Iowa Chum, Hayseed, Carol, Orange Lily, Quotations, Sally, Conundrums, Utts, Queen Inez, Recipes, Apple Blossom, Elma, Fidget, Casey Jones, No general interest, Moon Flower. Both sides written, Wildfire, Selection, Dora Thomsen.

Be careful, when writing to ask for badges, to give the three dates correctly on which your pen name was published in the Roll of Honor.

REQUEST.

A friend of Aunt Mary's wants a good recipe for making whole wheatt bread. Can any of our girls send one? Address Aunt Mary, Hawley, Minn.

NOTES FROM THE LETTERS.

Wildfire says her hands have a tendency to chapping, and wants a remedy. Use only soft water for washing, and always have the hands thoroughly dry before going out in the wind. Either wear gloves or mittens when outdoors, and a little talcum powder rubbed on the hands before going outside will help. Use the best of toilet soaps.

You all like conundrums, so we will give you a few new ones: Utts asks, "What is it that is hard outside and soft in the middle?" Queen Inez propounds this: "If you had a cent and a quarter and butter was twenty-six cents a pound, how much could you buy?" Here is another: "What is it that runs all over the roads, and then comes home and runs under the shed and sticks its tongue out?"

Johnnie is hard at work husking. Flotis has only missed one day in six terms of school, and lives two miles away. Wanola tells of a box social at the schoolhouse. Carnation wants to know if she can write oftener than once a month. Write as often as once in two weeks if you have something worth writing, otherwise, don't write at all. Alicia is one who has been to California and back, and looks forward to a good time coasting "in good old Minnesota."

V. L. M. has taken vocal and instrumental lessons, and likes vocal best. Her favorite song is "The Rosary." In the school that Gwen attends they have a grab bag at Christmas. Each one brings presents for the others, and puts them in the bag. Then they take turns drawing out parcels. Minnesota Lassie sends New Year greetings to all.

De Pera loves horses, and can hitch and harness, unhitch and unharness them. She helps in the haying. Violet Eyes is glad to see A. E. S. stand up for his sex. She knows quite a number of boys who neither drink nor chew. Retha writes about the school; there are only seven pupils, but they had a Christmas tree. Flo goes to school in a white schoolhouse which has cement steps and platform in front.

Eden visited the penitentiary at Fort Madison, Iowa, and saw the convicts at work making furniture. Thalia writes about the picnic in the schoolhouse the last day of school. They had a program and ice cream and games. Irene visited her grandmother in Blair, Neb., during the Old Soldier's Reunion, and saw a balloon ascension and an electrical trapeze, whatever that is.

Princess Zora thinks we do not have enough book talk in our columns. It isn't because the young folks are not interested, Princess, for they write more about books than anything else, but variety is the spice of life, and so we give space to talks on other topics. Dixie Maid writes the story of her dog. She used to take him to town in her doll buggy, all covered up, and then when people asked what she had in the buggy, she would uncover him and how they would laugh!

We have received a good many Christmas stories, more than we can use, and some of them too late to use. Some good ones are by E. M. P., Pretty Poll, Happy Thoughts, Miners, Goldie Lock, Sybil-Lena and D. E. G. In sending stories for a certain season send them about a month ahead of the date it should be in print. Thus Valentine stories or Lincoln stories must not be mailed later than January 12, or Washington stories later than January 20.

Letters From the Cousins.

We raised an okra stalk that was nine feet high and ten inches around, and it had 160 pods on it.—Irma, age 11.

Our teacher had us work for prizes and five in the school got them. The prize for the girls was a pink satin rose. The only boy who got a prize got a gold necktie clasp.—Thekla, Ill., age 12.

How many of the cousins think they cannot enter the Kingdom of Heaven unless they belong to a church? I think it is a much worse sin to belong and not live as God intends us to than not belong at all. —Country Cat, age 12.

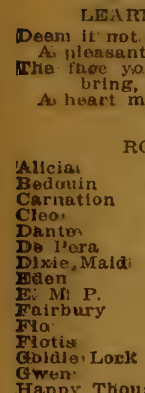
Last Christmas I stayed at home, and my brother came and took us riding Christmas morning, and stopped at the village and bought candy, nuts, gum, cocoanuts, apples and oranges. We came back to a neighbor's house for dinner, and the boys went hunting.—Campbell Kid, age 14.

To remove plum, grape and berry stains, pour boiling water through the stains and leave the cloth in the water until cold. To remove mud splashes from soft material, leave until dry, then rub gently with a dry corn cob. It will not roughen the goods as a brush does.—Mishy, age 13.

Last Christmas we had a Christmas tree down in an old house we had moved out of, and we invited some of our friends in. We had a short program and Bible reading, and then Santa Claus came and distributed the presents. My sister was afraid of him.—Rose, age 12.

Our superintendent got up a large spelling match for the children of Iowa and Illinois. Not more than three could come from any one school. One of my schoolmates and I went up, and I won a pair of shoes for being the best speller in our township.—Bernette, age 11.

Where has our beloved cousin Hiawatha gone? Shipmate is a very high-minded girl (or is she a boy?) Cousins all, do you read Dickens extensively? I would if I could only get more of his books. In the "Tale of Two Cities," I think Miss Pross is the only overdrawn character.—Bawn, age 16.



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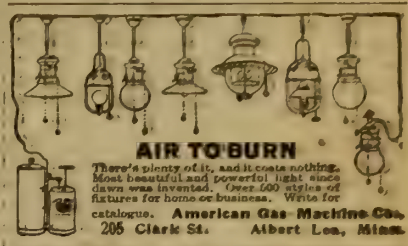

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SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER Lesson I. Genesis I., 1-2:III. January 5, 1913.

THE CREATION—THE STORY.

When Michael Angelo overlaid the ceiling of the Sistine Chapel with frescoes that make its common plaster more precious than gold, he dipped his pencils into the first chapter of Genesis. Each successive panel matches its respective paragraph—The Separation of Light and Darkness; The Creation of the Sun and Moon; Of Trees and Plants; Of Adam; Of Eve; and so on. The frescoes are indescribably majestic; but they fall short of the narrative which inspired them. That is unapproachable in literature or art. It is divine. If the immortal Florentine had drawn his inspiration from any other cosmogony than that of Moses, that Vatican ceiling would have been marred with the incongruous shapes of man's wild fancy or wilder fear. Dualism would have been there—a devil as powerful as God; or Polytheism, gods many, and all in a wrangle, one pulling down what the other set up; or Pantheism—an eternal matter, insensate yet evolving itself in various shapes, the thing fashioned greater than that which made it; or such grotesque ideals of the universe, for example, as that of the Hindu, with its pryamid of snake, turtle, elephant, and triple disk. Instead of this, we see on that lustrous roof the ineffable Jehovah in the form of a man (anthropomorphized) as the Bible itself must needs present him to us—eternity upon his hoary brow, omniscience beaming in his eye, omnipotence in his outstretched arms, and infinite love in his whole mien. The Mosaic account of creation is a miracle in words. Not to this present, highly-cultured age, but back 3,000 years to the beginning of literature, must we look for the most satisfactory statement of the origin of things. There, through the mists of human speculations, through rising and falling systems of philosophy, Genesis shines like a star, ever ascendant. It is not attached to any system of geology, astronomy, or biology; so, as numbers of these in succession have sunk, it has never been submerged. The book may clash with an hypothesis, it never does with a fact. The narrative is elastic enough to take in all the modern discoveries of physical science, but presents a rim of steel to the vagaries of sciolists. Whence came this phenomenal writing? From the genius of man? Then why is not its equal found in the ancient literature of other nations?—nations better situated, humanly speaking, to produce such a book than the petty and oft-captive Israel. Inspiration is the only adequate explanation of Genesis. Holy men of old wrote it as they were moved by the Holy Ghost. The blessed intent of the book is seen by the most casual reader. It is a mirror reflecting the person and attributes of God. It answers, too, satisfactorily the imperative questions of the heart as to the origin of nature and of man. Parker's alliteration well describes it: "Simple, sublime, sufficient."

The Study Lantern.

The account of creation, popularly attributed to Moses, is a sublime panoramic ode to nature and to the God of nature. Orthodoxy has been in error in treating it as a technical, literal account of the origin of the universe. It is political, not scientific. But it is unscientific, not anti-scientific. It represents God as the Creator, but it says (as a poem, of course, would not) nothing as to the method of creation. Many scientists are disposed to concede that the method of creation may have been evolution, although Darwinism remains in its hypothetical stage. The majesty of the Mosaic account of creation may be well shown by using the crude heathen cosmogonies as a background. The orderly and glorious progress of creation should lead us to exclaim, "O Lord, how manifold are Thy works! in wisdom hast Thou made them all." Man's dominion over nature was never so great as at the present day. With retort, spectrum, telescope, miscroscope, etc., he is wresting her secrets from her, and subduing her forces to his use. A beginning only has been made. The universe affords a limitless area for man's skill and prowess. The dignity of man's position in nature, the variety, delicacy, and strength of his senses and faculties, the broad scope afforded for their employment: "O rich and varied man, thou palace of sight and sound!" Primary teachers have a fascinating task in discovering and banishing the crude and amusing notions about earth, air, sky, water, stars, etc., with which they will find little minds packed. A taking object lesson may be given by laying an orange on the table, and having an apple, suspended with a cord, revolve about the orange. Orange for sun; apple for earth. What makes day and night, the year and the seasons, may thus be illustrated. Earth may be described as a house, beautiful and comfortable, which God has built for His children—a cellar full of coal and other things we need. The carpet changes every season, so we shall not get tired looking at it—from green, sprinkled with flowers, to russet in the fall and white in the winter—a house hung with pretty pictures.

THE BEGINNER IN POULTRY.

The above is the title of a handsomely illustrated book by C. S. Valentine, that has just come from the press. It is a volume written for those people who want to make a success of the poultry business either on a large or small scale. Beginning with the initial step it discusses clearly and completely every factor which goes to make that success. This includes the choice of breeds, hatching and brooding with the mother hen and the incubator, the artificial brooder, feeding and food values, disease—its prevention and the various remedies—houses for poultry, the raising of ducks and geese and also the raising of guinea hens and quail. Those who have not been satisfied with their poultry ventures ought to be able to find a clue to improved methods in this volume. To those who are about to start in the business it will be found indispensable and in it the seasoned poultryman will find many new and valuable hints. The price of this book is $1.50, arrangements having been made by this paper whereby it will be furnished to our readers upon receipt of this sum.

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5922 Lady's Three-Piece Skirt.—The splendid skirt model given in this design is one of the newest and cleverest styles of the season. It is not in the least difficult to make and the home dressmaker can handle it with great success. The garment closes at the front and is made with empire or regulation waist line. Serge or mohair can be used to make this skirt.

The pattern 5922 is cut in sizes 22 to 30 inches bust measure. Medium size requires 3⅞ yards of 36-inch material. Price of pattern, ten cents.

5957 Lady's Skirt.—This skirt can be worn with a separate shirt waist or it can be worn with a waist of the same material. It closes at the left side. It can be made with either the empire or the regulation waist line.

The pattern 5957 is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅛ yards of 36-inch material. Price of pattern, ten cents.

5904 Lady's Seven-Gored Skirt.—This model represents a charming skirt cut in seven gores and a design very simple to carry out. It can be made with the high or regulation waist line and with inverted plait or habit back.

The pattern 5904 is cut in sizes 22 to 30 inches waist measure. Medium size requires 4⅝ yards of 36-inch material. Price of pattern, ten cents.

5958 Miss' and Small Woman's Dress.—This dress is just the thing for the girl who attends school. It can be made with either the Empire or regulation waist line. The skirt is a six-gored model.

The pattern, No. 5958, is cut in sizes 14, 16 and 18 years. Medium size requires 6 yards of 36-inch material, ⅜ yard of 24-inch satin and ⅜ yard of 18-inch all-over. Price of pattern, ten cents.

6000 Boy's Russian Dress.—This pretty little Russian dress is for the small lad who has not yet worn the regulation bloomers. It is a cunning model and a very becoming one. The garment closes at the right side of the front. The collar, cuffs and belt are fashioned of contrasting material.

The pattern, No. 6000, is cut in sizes 1, 2 and 3 years. Medium size requires 3 yards of 27-inch material, with ½ yard of contrasting goods. Price of pattern, ten cents.

6012 Miss' and Small Woman's Dress.—This dress is just the thing for the young girl who attends school. The waist is made with the turn-down collar. The dress closes at the left side of the front and the skirt is a six-gored model. The dress can be developed in any of the woolen materials.

The pattern, No. 6012, is cut in sizes 14, 16 and 18 years. Medium size requires 6 yards of 36-inch material Price of pattern, ten cents.

Echoes From a Kansas Farm

BY HENRY HATCH

It is almost too nice outdoors today to stay within the house. The writing of these paragraphs becomes almost a task this week because of the bright sunshine, the crisp atmosphere and the dry footing outside. It must be tough to be cooped up in offices all day, such weather as this.

A farmer, after all, is enabled to live the most healthful life of all. Now and then a storm must be braved in order to get feed to the stock but most folks prepare for such emergencies better now than they did years ago

Thrashing machines are still at work with the kafir corn. Now and then a machine stands idle for a time, waiting for several to get their topping done and ready for thrashing. As good as the weather has been, it is surprising how many there are who will find their before winter work running over into the new year.

Continued advances in the price of crude oil is putting new life into the oil industry of this state. When the oil boom was at its height a few years ago there was much buying and selling of oil leases and oil stock. Many were sheared rather close by both fake and real oil companies, as prices dropped below the point of profitable production, so it made no real difference whether the company was a fake or a legitimate concern, it proved a losing proposition just the same. There is a likelihood that the oil fields will be prosperous from this on, because of the great use of oil products, particularly gasoline and coal oil.

No one knows now whether the hog outlook is good or bad. Some believe one way and some the other. Breeding for the spring crop will be about normal around here, although reports from other sections of the southwest, where cholera has been giving some trouble, tell of a great dropping off. Some breeders are complaining of slow sales of their male stock. Much of this, we think, comes from the fear of shipping any distance by purchasers, thinking cholera may be picked up somewhere along the way.

The ground would be in ideal condition to plow if it didn't freeze just about enough each night to forbid plowing most of the next day. Now and then a warmer southwest wind than usual puts the frost to route early in the day, but the past month has been remarkable for its even temperature, no day during this time being summer-like.

The party near here who bought a gasoline tractor, grain separator and block of five plows is anxious to give the plows a good trial, but has been too busy so far thrashing with the engine to use it on the plows. At first the engine was considered a failure because it apparently would not pull the separator under the belt, but it was proven that an "overshot" feeder on the separator was the fault. With the feeder changed, the engine makes the separator hum, with power to spare. Before condemning the tractor, a steam engine was used with the separator and it was found that it could not pull the separator under belt, so a change of feeders put everything right.

A custom plowing rig will be a new venture in this part of the country, and it remains to be seen whether or not it will be a profitable one for its owner. A charge of $1.50 an acre is to be made for plowing. At this price the soil is to be turned to a depth of five inches. If the farmer wishes deeper plowing done it will be more per acre, in proportion. The owner of the rig expects to plow from fifteen to twenty acres a day. If everything runs well and he doesn't have too much breakage, the machine owner should make a little money, providing he can find work enough to do and good weather in which to do it.

It has already been proven by the thrashing done by this gasoline tractor, that gasoline is cheaper than coal for fuel. A ten-hour run was made the other day, at the cost of twenty-two gallons of gasoline, which is now fifteen cents a gallon. Coal at $4 a ton would have cost more, and the hauling of the coal would be a greater item than hauling the gasoline. The tractor also saves the job of water-hauling, which is $2.50 to $3.00 a day for the man and his team.

THE LARGEST PRODUCERS ARE MOST ECONOMICAL.

To the Editor of The Homestead:

That the largest producers are generally the most economical and profitable cows was definitely shown by the Wisconsin Dairy Cow Competition, according to a recent bulletin of the Wisconsin station. In comparing cows from the main dairy breeds for economy of production, those with the greatest capacity for food, it was found, responded most readily. This, for the most part, was independent of breed characteristics for while the Holsteins led the Guernseys and the Guernseys led the Jerseys in amount of production, pound for pound the Jerseys led the Guernseys and the Guernseys the Holsteins in economy of production, pound for pound, the more a question of the size and capacity within a breed than a question of breed size and capacity that determines the final profit.

Perhaps not more than one-third of the cows on the average farm could show as profitable results as the lowest cow entered in the competition, yet it would take at least three of the lowest cows to produce as much butter fat as did the winner. The rations fed varied widely, but on the whole they were rather heavier than are usually given dairy herds. By reducing the feed to definite units it was found that the Holsteins consumed 7,913 units, the Guuernseys 6,420, and the Jerseys 5,514. Much of this feed was purchased at high prices, a practice which most farmers cannot follow with profit, it being better on the whole to feed heavily of homegrown material and sparingly of expensive concentrates.

Using the results of the competition the authors of the bulletin recommend the adoption of a new scale of points in test of dairy cows. The proposed schedule allows twenty-five points for each pound of butter fat produced per day; one point for each ten days in milk after the first thirty days (limit ten points). Heifers under two and one half years are to receive 30 per cent additional credit on the total number of points; heifers from two and one half to three years, 24 per cent additional credit; three to three and one half years, 18 per cent; three and one half years to four years, 15 per cent; four to four and one half years, eight per cent; and under five years, five per cent. If cows producing milk of greatly varying fat contents are competing, only twenty points are to be allowed per pound of butter fat, one point per pound of milk and four points per pound of solids, not fat. On the basis of value for cheese production the points should be distributed as follows: ten points for each pound of butter fat, ten points for each pound of casein, and two points for each pound of other solids.

A comparison between brief tests and those extending over a year was also made, with the result that little difference was discovered. A seven-day or a thirty-day test may be misleading, however, in that it is possible under abnormal conditions to produce an abnormal test and show the production of an unusual quantity of milk that cannot be duplicated later.

W. A. Freehoff.

FALL WORK FOR ORCHARD SETTING.

A Kansas subscriber writes as follows:

I am planning to set out next spring an orchard of 200 trees. I am puzzled to know just what to do in getting ready for work in the spring. Right in my community there are two men who have orchards set out five years ago. Both have been cultivated in corn, and they tell me that the trees were alike when bought—came from the same bunch, same nursery. And yet, one orchard is twice as thrifty as the other.

I have asked carefully about the way of planting, and the care at both places, and the only difference I can find is this: One man dug big holes, three feet across, so he says, and did it in the fall, setting the trees the following April. The other man took his trees in the wagon, in April also, and with a gang of men dug holes just big enough to set the trees in fairly, and shoveled in the dirt. He did the whole job in a half day. Now can this difference in the way of planting have caused the difference in thrift? If so, I would like to know it. I can hardly believe it possible.

We think that our Kansas reader is very fortunate in having such an object lesson as he describes, at hand. In our judgment there is not the least doubt that the present difference in thrift results from the difference in care in preparing to plant—and the planting.

The reason is clear to one who understands the principles of tree growth. A large hole filled when the tree is set with rich top soil makes an ideal condition for root growth. The physical condition of the soil will either retard or forward root growth, as it is compact and hard, or loose, and easily penetrated.

This fact is very noticeable in all those western mountain valleys, where the present soil is the result of recent washings—comparatively speaking. In such soils where the roots penetrate easily trees make double growth, which is usual in glacial drift soils. In fact the need of a loose, porous subsoil has become so apparent, that in many northwestern localities it has been found advantageous to loosen the subsoil with dynamite. This is done by firing a cartridge in each hole prepared for a tree. An excellent rule for digging tree holes, in your section, is this: Dig them three times as big as the tree seems to require. That after filling in furnishes the loose, friable coudition which the feeble roots need—in their first efforts—to sustain and strengthen tree life.

Again, doing all this work in the fall is a distinct advantage. The dirt thrown out is pulverized by the action of frost and sun. The holes also are partially filled with snow, or rain, so that the subsoil is completely saturated, and very often in sections where the average rainfall is only twenty inches or less, the subsoil fails to get thoroughly soaked for several years at a time. This will, or may account, in part, for the success of one neighbor, and the comparative failure of the other.

The wisest thing you can do is to place yourself in line with Nature's efforts, let your plans harmonize with her work, and the results of her efforts come to you as an unearned increment. By all means, we think you have struck the right idea. Get the holes dug this fall—hiring a man by the day, not by the job. Give him a yardstick, and tell him that the holes will be measured before he gets his pay. Insist upon having them dug one-third deeper than he thinks necessary. And after making this good beginning we would be willing to gaurantee your success—if you use corresponding care in your future operations.

BIRDS NEEDED TO KILL INSECTS.

Weather conditions, parasites, fungi, insect disease and mechanically applied poisons (most of which are both dangerous and expensive) together are insufficient to check the multiplication of insects without the assistance of insectivorous birds. Edward H. Forbush records see ng a pair of grosbeaks visit their nest 450 times in eleven hours, carrying to their young two or more larvae at a time. Sparrows, chickadees, vireos, martins and warblers made from forty to sixty trips an hour to their nests with all kinds of insects for their young. One of the reports of the biological survey records the finding of sixty grasshoppers in the crop of one night hawk and five hundred mosquitoes in another; thirty-eight cutworms in the crop of a blackbird and seventy canker worms in the crop of a cedar bird. Professor Tschudi estimates that a song sparrow devours 1,500 larvae a day, and Professor Forbush says that a single yellow throated warbler will consume ten thousand tree lice a day. A scarlet tanager has been seen to devour gypsy moths at the rate of thirty-five a minute for eighteen minutes at a time. It is known that more than fifty species of birds feed upon different kinds of caterpillars, while thirty-eight species live largely upon destructive plant lice.

"By far the most efficient aids to man in controling the codling moth are the birds," says the "Year Book" (1911) of the department of agriculture. A report of the bureau of entomology says that this insect does more damage to apples and pears than all of the other insect pests combined, this damage being estimated at from 12 million to 15 million dollars a year. Thirty-six species of birds attack this insect, these species representing thirteen families, of which the three most important are the woodpeckers, the titmice and the sparrows. In some localities these birds destroy from 66 per cent to 85 per cent of the hibernating larvae of this insect.—[Review of Reviews.

While the early buyer of rams pays what appears to some a prohibitive price for sires with which to head his flocks, he also secures the "cream" of the flock from which he buys, and by careful breeding, he will be selling sires of that quality from his own flock next season at a tremendous profit.

If a little more planning of field work were done in winter, there would be less actual labor in those fields after the season's work began.

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1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., - 515 Popular Building - Des Moines, Iowa

Bumper Profits from Farm Eggs.

By George H. Dacy.

OUT of every twelve eggs that leave the farm but ten are fit to be delivered to the consumer. Practically one-sixth of our annual farm egg crop goes to waste because intensive poultry management regarding the production, grading, selecting, and marketing of eggs is not practiced on the average farm of the United States. In one of our prominent grain belt states the annual loss due to poor methods of marketing farm eggs amounts to more than $1,500,000. According to investigations conducted by the United States Department of Agriculture the detrimental changes in market eggs in the central West amounts to about seventeen per cent of the entire product each year. These changes include eggs that are dirty, broken, shrunken, rotten, moldy, or that contain chicks.

Were all farm flocks well-bred, well-fed, and well-housed such losses would be impossible where the owners pursued efficient methods of selecting, packing, and marketing the eggs. It is possible to produce eggs of the highest quality only from flocks that possess health and vigor and are maintained under sanitary surroundings and fed liberal allowances of wholesome food. It is up to the individual farmer to remedy the annual losses that occur in the marketing of farm eggs. The era of bartering any sort of eggs, from dirty, broken eggs to those that are rotten, at the crossroads store for flour, calico, or sugar is about over. The period during which eggs are to be sold on the quality basis is rapidly growing up.

In the marketing as well as the production of farm eggs there are many points of management that the countryman must heed. He must remember that a number one egg must weigh two ounces or over. He should maintain only such breeds of fowl as uniformly lay eggs of a good size; all eggs of light weight should be consumed on the farm rather than sold on the market at cut prices. Similarly all abnormally or misshaped eggs should be used on the farm, as they will grade as "seconds" on the market. Only such dual-purpose breeds of fowls as the Plymouth Rocks, Wyandottes, Orpingtons and Rhode Island Reds are adapted to general farm conditions and are capable of yielding desirable eggs as well as a good quality of meat.

About five per cent of all the farm eggs marketed have to be discarded because they are dirty, being stained, smeared, muddy, or covered with filth. This difficulty could be easily remedied were sufficient nests per farm flock maintained and were sanitary measures practiced in the poultry house and yard. One clean nest should be provided for every four or five fowls; the eggs should be gathered once or twice a day; eggs to be marketed should never be washed nor should they be packed in bran as this material sticks to the shells and causes them to be classed with the "dirties." Eggs should be marketed packed in cartons and cases only. About eight per cent of the eggs are broken in their trip from the producer to the consumer. By feeding a ration that contains plenty of shell-making material and by carefully packing market eggs in cases and cartoons this loss can be controlled.

Annually in the United States about $15,000,000 worth of market eggs are wasted, due to the growth of chicks in the fertile eggs. Eggs should be gathered often and kept in a cool, dry place until the first opportunity for marketing them. Every effort should be exerted on the farm to produce edible eggs that will be wholly dependable for use on the consumer's table. Shrunken eggs may be detected by "candling" or by gently shaking the egg while holding it to the ear. When the gurgle of the contents is very distinct, the egg is questionable. During the summer months eggs should be treated about the same as milk and cream and should be marketed daily if possible. The common practice of holding eggs for a higher market price in the fall of the year results in poor quality and a serious loss instead of gain. Eggs should always be marketed as soon as possible after being gathered.

A prominent egg authority recently said: "Rotten eggs are those which you would not eat under any circumstances. Moisture is the main cause of rotten eggs, as it weakens the shell and membranes, allowing bacteria to enter, whereupon the contents begin to decay. Nests on the ground or in wet straw, together with damp cellars and moist fillers in egg cases are mainly responsible for this condition. A fresh egg will readily absorb odors and will become tainted. Eggs should never be stored in musty cellars or in rooms with fruits, vegetables, or fish. The flock should never be allowed to drink filthy water; it should never be fed strong flavored grains or musty vegetables as onions and garlic, nor given access to decaying meats or substances that will flavor the product and impair its quality.

It is of maximum importance that the farmer utilize eggs on his home table that are in good condition as regards their suitability for human food but do not satisfy market requirements as to size, cleanliness, condition of the shell, and general uniformity of quality. In this way he is able to realize top price from the uniform quality eggs that he markets and he in no case receives cut prices on account of his eggs not satisfying all the market standards. The average egg consumer soon learns that the best is the cheapest in the long run and in consequence he buys only eggs of first class quality. The majority of the "seconds" are sold to restaurants, hotels, and bakeries.

The farm egg problem has been accorded special attention and investigation in Minnesota. Formerly the quality of the eggs marketed from the Gopher state farms was decidedly inferior and the state agricultural college began preaching the doctrine of selling eggs on the quality basis through the medium of co-operative marketing associations. After some test of the proposed methods of co-operative egg marketing the plan of selling the eggs through the local creameries and cheese factories was tried out. The factory method of co-operative marketing was particularly successful as the farmers were able to, daily or twice or thrice a week, bring in their eggs with their milk or cream. In some sections where cream gatheres were sent out by the factories these men also collected the farm eggs and in this way saved the countrymen needless trips to town.

One can best explain how one of these creameries handles the egg marketing proposition by referring to a concrete example of a factory engaged in this work. Such a creamery is located at Barnum, Minnesota, and it has two hundred patrons who daily bring in their eggs with their whole milk which they sell to the factory. All eggs are accepted at the factory that grade to standard, and any farmer may market his eggs at the creamery. One countryman finds that it pays him to drive fourteen miles in order to market his eggs at this factory. The farmer patrons agree to deliver eggs at the factory that are not over eight days old, the eggs to be gathered on each farm twice daily and those that are marketed to be of uniform size. They must be clean and must be stored in a cool, dry cellar. The brown eggs are to be packed in one carton, the white ones in another and each carton must be labeled. The factory supplies each patron with a rubber stamp so that he can stamp each egg with a serial number of his farm and the name of the creamery company through which he markets his eggs. This permits of readily tracing bad eggs to their producer. Any farmer who offends in this respect forfeits his right to longer market his eggs through the creamery.

Each farmer agrees to sell none of the eggs stamped with the creamery company's trade mark to any one but the creamery mentioned while he promises to return all the supplies such as stamps and cartons furnished to him by the creamery to this concern on the termination of his contract and patronage of the concern. The purpose of the creamery egg marketing plan is to place on the consuming market eggs of uniformity, that are clean, dependable, and strictly fresh. The brown eggs are separated from the white ones in order to promote uniformity and greater attractiveness of appearance and to encourage the maintenance of breeds of hens that lay none but white eggs as during the spring months the creamery pays a one cent premium per dozen for white eggs.

The creamery company supplies each patron with cartons as he needs them. These cartons feature the written guarantee of the company that the eggs are strictly fresh and all consumers that discover any inferior eggs under the creamery label are requested to report these cases giving the number found on the bad egg, so that it may be traced back to the farm that produced it. At this factory the cost of handling the eggs including the cost of the cartons is one cent per dozen. The eggs are shipped to a Duluth grocery firm which sells them to the consuming public. The excellent quality and uniformity of these eggs have developed a large patronage and consumers travel from the most distant part of the city in order to purchase these high quality eggs. During the last two years only two complaints have been registered at the creamery as to the quality of the eggs. An excellent reputation has been established for these eggs that are sold under brand. In fact the success of this creamery in the way of co-operative egg marketing has led twenty other creameries and egg associations in Minnesota to successfully institute and practice the same plan.

This plan of co-operative egg marketing possesses several advantages in so far as it increases the farm price that is paid for the eggs. The egg gatherer or the creameryman examines the eggs brought in by each patron and if they are up to requirements he immediately gives the farmer a check in payment for the eggs. Furthermore the plan compels the farmer to market eggs of improved quality that correspond to a uniform standard. A higher price is paid for the eggs as they are marketed directly with the consumer and sold under the brand of creamery. One of the most valuable features of this work has been that it has demonstrated to the farmers the profitable possibilities of hen farming as a sideline. It has induced the countrymen to practice approved methods of flock husbandry.

The general price received for eggs at the Barnum Creamery has been two to three cents a dozen above the general market price during the springtime when the supply of eggs was plentiful. During the winter when eggs were scarce as high as ten cents a dozen above the market quotation has been paid for the eggs marketed in this co-operative fashion with special trade. It is interesting to note that during the month of December of a recent year this creamery disposed of eight hundred and ten dozen farm eggs at forty cents a dozen. At the same time the price that was being paid for farm eggs at a neighboring grocery store was twenty-five cents a dozen. This indicates that through the medium of co-operative marketing farm eggs through the creamery these Minnesota farmers were able to realize fifteen cents more per dozen on their eggs. During this same year the average price per dozen paid by eggs at the creamery by months was: January 35.6 cents, February 25.9 cents, March 19 cents, April 18.2 cents, May 19.8 cents, June 20 cents, July 22.7 cents, August 24.5 cents, September 25.1 cent, October 27 cents, November 37.4 cents.

It is also worthy of note that the egg surplus of the Barnum community has immeasurably increased as a result of the efficient institution of an A Number 1 system of co-operative marketing. During the year preceding the establishment of the co-operative system only about enough farm eggs were marketed at the local grocery stores to satisfy the home demand. During that year only four hundred and fifty dozen eggs were shipped from the town. During the first year that the creamery handled eggs over $4,000 worth of eggs were sold to city consumers. There is no reason why Wisconsin farmers could not be reaping similar returns from their farm egg crop. Conditions in Wisconsin are quite similar to those that obtain in Minnesota. Numerous creameries and whole milk factories throughout the state provide excellent mediums for the marketing of the egg crop. The consuming public is willing and eager to pay an advanced price for guaranteed, fresh eggs. The average farmer can easily manage his flock so as to produce a quantity of eggs that will satisfy the requirements outlined under the Minnesota system. All that the proposition needs is a few courageous spirits to start the ball a rolling. The supply of eggs can be easily produced; the demand and market for the eggs is at hand. Wisconsin farmers, why do you not avail yourself of this splendid opportunity to increase the income from your farm flocks?

Just try giving one hundred laying hens as much care as you do some farm animal worth no more than the hens, and you will realize the immense profits to be derived from poultrying.

Never throw any grain on the open ground for the poultry, as they will get it with too little effort and eat it too fast. Give them their grain in the scratching shed, scattering it in about six inches of clean straw or hay, and see them work for it.

What earthly excuse is there for allowing the hog troughs to become so much more filthy during the winter than in summer? It must be simply another case of pure laziness, the frozen dirt, cobs and manure being more difficult to remove than in warmer weather.

The writer carefully brushes the cow's flanks, teats and udders well before beginning to milk, which prevents the dust, hair and other substances from dropping into the bucket when one starts to working the teats and udder in milking.

Toss several small, smooth rocks, cobs and sticks into the trough of the animal that eats too rapidly, so he will have to push these articles around and be slower in securing a mouthful of feed.

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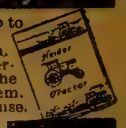

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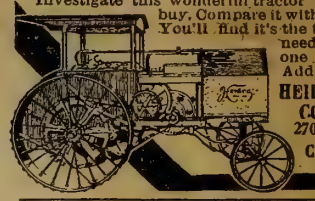

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Aberdeen Angus Cattle.

Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale East St. Louis, Ill.

Short-horn Cattle.

Jan. 15, K. F. Dietsch, Orleans, Neb., sale at Scribner, Neb.
Jan. 28, O. M. Healy, Bedford, Ia. (sale at Marshalltown, Iowa).
Feb. 12, White & Smith, Chicago, Ill.
Feb. 13, Chas. Slepicka, Tobias, Neb.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 21, F. A. Schaeffer, Raleigh, Iowa
Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 8, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.

Hereford Cattle.

Jan. 21, Chas. Quelland, Williams, Ia.
Feb. 14-15, Combination sale, Grand Island, R. D. Mousel, Mgr., Cambridge, Neb.
Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 20, A. A. Hager, Avoca, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Feb. 5, Registered and high grade, A. J. Podendorf, Logan, Iowa.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Jan. 15-16, Breeders' sale, C. F. Way and H. K. Frantz, Mgrs., Lincoln, Neb.
Feb. 5, D. D. Case, Giltner, Neb., and L. M. Phelps, Trumbull, Neb. (sale at Hastings, Neb.).
Feb. 20, Nuckolls County Horse Breeders' Assn., Percy Baird, Ruskin, Neb., Sec., sale at Lincoln, Neb.
Jan. 22-23, Breeders' sale, C. F. Way and M. K. Frantz, Mgrs., Lincoln, Neb.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Percheron and Belgian Horses.

Jan. 14, Thos. and James Woulf, Streator, Ill.

All Breeds of Draft Horses.

Jan. 28-29-30-31, C. W. Hurt, Mgr., Bloomington, Ill.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Jacks and Jennets.

Feb. 4, Platte Co. Jack Sale Co., J. B. Dillingham, Mgr., Platte City, Mo.
Mar. 3, W. J. Finley, Higginsville, Mo.
Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Poland China Swine.

Jan. 17, S. A. Roberts, Knoxville, Ia.
Jan. 21, Ellerbroek's Herd, Sheldon, Ia.
Jan. 22, E. Gritters, Hull, Iowa.
Jan. 23, Bloomendaal & Korver Bros., Alton, Iowa.
Jan. 23, Chas. Herring, Columbus, Neb.
Jan. 24, Herman Baltz, Fremont, Neb.
Jan. 24, J. G. Long, Harlan, Iowa.
Jan. 28, Moore & Son, Genoa, Neb.
Jan. 30, E. E. Farver, Ocheyedan, Iowa.
Jan. 30, G. A. Kissinger, Milford, Neb
Jan. 30, Wright & Son, Concord, Neb.
Jan. 31, Sam Tillinghast, Peterson, Ia.
Jan. 31, Frank Roberts, Earlham, Iowa.
Jan. 31, O. J. McCullough, Clarks, Neb. (sale at Aurora, Neb.)
Jan. 31, C. W. Schramm, Newcastle, Neb.
Feb. 1, N. B. Freeman, Kearney, Neb.
Feb. 1, Podendorf & Rainier, Logan, Ia.
Feb. 3, Carl A. Rosenfeld, Kelley, Ia.
Feb. 3, Williams Bros., Villisca, Iowa.
Feb. 4, W. H. Barr & Sons, Villisca, Iowa (sale at Red Oak, Iowa).
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb
Feb. 5, Williams Bros., Villisca, Ia.
Feb. 5, J. M. Glasier, Algona, Ia.
Feb. 6, H. Fesenmeyer, Clarinda, Ia.
Feb. 6, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 7, G. W. Sefrit, Lucas, Iowa.
Feb. 7, J. O. James, Braddyville, Iowa.
Feb. 8, J. T. R. Nash, Minden, Neb.
Feb. 10, A. D. Jones, Dunlap, Iowa.
Feb. 10, W. E. Zimmerman, Neola, Ia.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 11, Henry Dorr, Remsen, Iowa.
Feb. 12, M. F. O'Hern, Barnum, Iowa.
Feb. 12, Jas. Williams and Will A. Henry, Marcus, Iowa.
Feb. 12, D. C. Lonergan, Florence, Neb.
Feb. 13, W. A. Lingford, Dannebrog, Neb., sale at Grand Island, Neb.
Feb. 13, E. S. Barker, Doon, Iowa.
Feb. 13, Theo. Martin, Bellevue Iowa.
Feb. 13, H. P. Kuhl, Florence, Neb.
Feb. 14, J. M. Peery, Alvord, Iowa.
Feb. 14, Frank Owens, Council Bluffs, Iowa.
Feb. 15, C. W. Humerick, Atlantic, Ia.
Feb. 15, Walker & Son, Fairbury, Neb.
Feb. 18, Jas. Cockerton, Whiting, Ia.
Feb. 19, Peter Mouw, Orange City, Ia.
Feb. 19, C. C. Polly, Whiting, Iowa.
Feb. 20, Ruebel Bros., Marathon, Iowa.
Feb. 21, W. J. Crow, Webb, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 21, R. W. Halford, Manning, Ia.

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Feb. 22, C. C. Ingram, Bloomington, Neb.
Feb. 24, J. M. Sheehan, Stuart, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa.
Feb. 26, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 26, Wm. Lentz, Ankeny, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa (night sale).
Feb. 27, R. R. Blake, Dallas Center, Ia.
Feb. 28, C. M. Pederson, Dunlap, Iowa.
Mar. 1, Fred Sievers, Audubon, Iowa.
Mar. 8, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Jan. 18, C. T. Eggert, Jr., Aurora, Neb.
Jan. 20, S. P. Freed, Ames, Iowa.
Jan. 21, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 21, J. A. Shade, Kingsley, Iowa.
Jan. 21, F. H. Herring, Iowa City, Ia.
Jan. 22, Rude & Son, Moorehead, Iowa.
Jan. 22, James Williams, Marcus, Iowa.
Jan. 23, S. W. Swanson, Stanton, Iowa.
Jan. 24, A. J. & L. L. DeYoung, Sheldon, Iowa.
Jan. 24, Sol Frank, Sioux City, Iowa.
Jan. 25, J. E. Smith, Victor, Iowa.
Jan. 27, David Boesiger, Cortland, Neb.
Jan. 28, Paul Mason and John Brackemyer, Morrison, Ill.
Jan. 28, C. H. Huffman & Son, Scranton, Iowa.
Jan. 28, Duerr Bros., Milford, Neb.
Jan. 28, E. E. Handley, Carroll, Iowa.
Jan. 29, P. W. Weberg, Denison, Iowa.
Jan. 30, O. S. Larson, Logan, Iowa.
Jan. 31, W. H. Seddon, Persia, Iowa.
Feb. 1, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Ia.
Feb. 4, F. H. Dickey & H. S. Fain, Emmetsburg, Iowa.
Feb. 4, Geo. T. White, Dallas Center, Ia.
Feb. 4, Wm. Retzlaff, Bennett, Neb.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 5, Grant Lynn, Spirit Lake, Ia.
Feb. 5, H. S. Allen, Chariton, Iowa.
Feb. 6, S. L. Weaver, Lake Park, Ia.
Feb. 6, J. C. Droz and Hanks & Bishop, Fairfield, Iowa.
Feb. 6, O. R. Stevens, Rippey, Iowa.
Feb. 7, Howard Gerlaugh, Osborn, O.
Feb. 7, J. Schmidt, Everly, Ia.
Feb. 7, E. W. Davis, Glenwood, Mo.
Feb. 8, Swan & Ellis, Indianola, Iowa.
Feb. 10, R. Widle & Sons, Genoa, Neb.
Feb. 11, Waltemeyer Bros., Melbourne, Iowa.
Feb. 11, Fred Nelson, Lindsey, Neb.
Feb. 11, H. H. Shaw, Hebron, Neb.
Feb. 12, J. D. Isaac, Red Oak, Iowa.
Feb. 12, Economy Stock Farm, Shenandoah, Iowa.
Feb. 12, J. C. Theobold, Ohiowa, Neb.
Feb. 12, A. W. Lamb, Albion, Neb.
Feb. 13, A. R. Barnes, Petersburg, Neb.
Feb. 14, Wm. Harding & Son, Brimfield, Ill.
Feb. 14, H. H. Koenig, DeWitt, Neb.
Feb. 17, Bob Ewing, New Hampshire, O.
Feb. 17, Con. McCarthy, York, Neb.
Feb. 18, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 19, D. Herr & Miller, Elida, Ohio.
Feb. 19, G. Van Patten & Son, Sutton, Neb.
Feb. 20, J. W. Storm, Seville, Ohio.
Feb. 22, C. K. Anderson, Table Rock, Neb.

Chester White Swine.

Feb. 6, H. L. Bode, Friend, Neb.
Feb. 7, Chas. H. Murray, Friend, Neb.
Feb. 19, G. H. Tutt, Marathon, Iowa.
Feb. 20, J. H. Stewart, Dickens, Iowa.
Feb. 27, John F. Holst, Jr., Denison, Ia.

Hampshire Swine.

Jan. 15, J. Crouch & Son, La Fayette, Ind.
Jan. 25, C. P. Paulsen, Nora, Neb.
Jan. 27, A. L. Goodenough, Morrison, Ill.
Jan. 28, Bollman & Sharpe, Coal Valley, Ill.
Jan. 31, Chas. E. Davis, Radnor, Ohio.
Feb. 1, G. H. Dodds, Canton, Ohio.
Feb. 5, C. A. Brook, Washington, Ia.
Mar. 12, H. D. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Bldg., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

The coming of the new year invites thoughts on the subject of seeds for the approaching season. The advertisement of Sterling seeds on page 15 is a suggestive one and one which will bear the closest consideration by those who are obliged to make seed purchases soon. The big 1913 catalog contains 144 pages of illustrations and descriptions of seeds adapted to the use of our readers. It may be had without cost. Address Northrup, King & Co., Minneapolis, Minn.

M. A. McWilliams, Wall Lake, Iowa, is offering Scotch and Scotch-topped bulls for sale at reasonable prices in his advertisement appearing on page 41 of this issue.

If in the market for good Galloway cattle inspect the herd of James P. Milliken, Media, Ill. Some very desirable rugged young bulls are for sale at farmers' prices. See the advertisement on page 44.

Important information concerning the Belle City incubator is given in the advertisement on page 22. Other facts of value to buyers may be obtained by writing to Belle City Incubator Company, Box 52, Racine, Wis.

Thomas F. Kennedy, Boone, Iowa, has two Shire mares, one eight years old and the other coming three, which he is offering for sale at very reasonable prices in his advertisement that appears on page 45 of this issue.

J. T. Swearingen & Sons, Hedrick, Iowa, have four Short-horn bulls fifteen months old that they are offering for sale in their advertisement on page 44 of this issue. These bulls are reds and roans, good ones and grandsons of Cumberland's Last.

Immunized Hampshire swine are for sale by J. Crouch & Son, La Fayette, Ind. General Allen, grand champion of the 1911 International Live Stock Exposition, heads the herd, and they have nearly 200 head from which to make selections. See page 44.

One of the leading arguments presented by the Rayo incubator advertised on page 22 is that an entire successful hatch may be had by one filling of the lamp. Read the advertisement and send for catalog No. 11. Address Rayo Incubator Company, 942 So. 13th St., Omaha, Neb.

Miller of Rockford starts a new advertisement of his incubator on page 22. Freight on this incubator is prepaid. An absolute guarantee is made and other important features described in a big illustrated free poultry book. Write for it to J. W. Miller Company, Box 305, Rockford, Ill.

John E. Griffith, Washington, Iowa, has a bunch of good Aberdeen Angus bulls for sale and he can please the bull buyer, both in quality and price. Mr. Griffith is a high-class gentleman and a man in whom you can place confidence. See page 44 and write him, mentioning The Homestead.

The famous Brookmont Farms, Odebolt, Iowa, have about thirty-five choice young Hereford bulls for sale. These are well bred and are good individuals. They do not want to carry them over and consequently will price them right if taken soon. Kindly mention The Homestead when writing.

Preparation for farm work involves the consideration of the harness equipment for all kinds of work. Those who need harness should not make their selections before having obtained the descriptive catalog of the Western Harness & Supply Co., 613 Main St., Waterloo, Iowa, an advertisement of which will be found on page 18.

The Northern Light Milling Company, Owatonna, Minn., advertise Northern Light self-rising buckwheat flour on page 33. Our readers who wish to give this flour a trial may obtain a twenty-five cent package of it without cost by filling out the coupon in the advertisement and forwarding it to the Northern Light Milling Co., Owatonna, Minn.

The simplicity hatcher advertised on page 22 differs from most others from the fact that it is made of metal which gives it several important advantages over its competitors. Complete information with reference to these advantages may be obtained from circular for which address Indianapolis Corrugating Co., 1020 Drover St., Indianapolis, Ind.

The date of the Short-horn sale of A. J. Ryden, Abingdon, Ill.; Chas. T. Nelson, Blandinsville, Ill., and H. G. Bowers, Elmwood, Ill., has been changed from March 11th to March 25th. The sale will be held at the stock yards, Galesburg, Ill., and the day following, March 26th, Rigg & Glasgow, Mt. Sterling, Ill., will hold a sale of Short-horns at the same place.

James P. Milliken, Media, Ill., breeder of Galloway cattle, in remitting for advertising already done, writes: "My cattle are doing fine. I have the best lot of young bulls for sale that I have ever bred. I also have a fine herd bull, Netty's Follower (30286), that I can dispense with and also some fine females." See Mr. Milliken's advertisement on page 44 of this issue.

On page 10 the Richards-Wilcox Mfg. Co. invite the attention of our readers to their tubular steel frame grindstones. The frame of this stone is absolutely indestructible and the general construction such as to make the running of the grindstone a pleasure rather than a burden. Send for illustrated circulars. Address Richards-Wilcox Mfg. Co., 133 3d St., Aurora, Ill.

A number of very fine Chester White boars of April and May farrow for sale from the well-known herds of Vanderslice Bros., Cheney, Neb., should meet with ready sale. These gentlemen have sold an extra big crop of early boars and these later ones are just as choice. They are naming prices that should move them, and our readers that are interested should write at once. They also have a couple of early boars that they have used a little that they will sell very low. A great many of these boars are sired by the great breeder, All O. K., generally recognized as one of the great ones of the breed. Mention this paper and write for full particulars at once. See advertisement on page 43.

The manufacturers of Twenty-Mule Team borax advertised on page 33 insist that that preparation can be used in a hundred ways in any farm home. It is sold by dealers.

M. B. Weir, Grant, Iowa, is offering one June-bred coming two-year-old Jersey bull for sale in his advertisement on page 41 of this issue. This animal is not registered and the first $50 will get him.

The Queen incubator, advertised on page 22, claims twenty-eight points of superiority over others. It might be well to obtain the book which enumerates these points. It is free. Write to P. M. Wickstrum, Box 10, Lincoln, Neb.

The Progressive Incubator Company, Box 127, Racine, Wis., whose advertisement appears on page 22, have a lot of important information for our readers which they give in a big free book which may be secured by writing to the address named.

The new Mankato incubator, advertised on page 23, is sold at the remarkably low price of $4.95. Better learn all about this before making the purchase. Poultry catalog tells all about it. Address Mankato Incubator Company, Box 827, Mankato, Minn.

Farmers who contemplate the purchase of silos would do well to investigate the hinge door and Lansing silos advertised on page 21. These silos are well made and have improvements and conveniences not found in others. For information write to Woods Bros. Silo & Mfg. Co., Lincoln, Neb.

The kodak advertised on page 32 of this paper is one of the very latest and most highly improved picture taking machines. It is sold at the low price of $6. Catalogs giving full descriptions of this and other styles may be obtained by writing to Eastman Kodak Company, 392 State St., Rochester, N. Y.

In an advertisement on page 14 the Griswold Seed Company make an announcement with reference to sweet clover to which they invite the attention of our readers. They advise the use of sweet clover for the reinvigoration of worn out or sandy soil. They have seed for sale. Send for catalog. Address Griswold Seed Company, 191 So. 10th St., Lincoln, Neb.

Wm. Lentz, Ankeny, Iowa, claims February 26th as the date of his annual brood sow sale. Mr. Lentz has a lot of Poland Chinas on hand which are just about the right type and that have size enough, quality enough and finish enough for good breeders. He has just acquired a good Mouw-bred boar that he calls just his type and that will add interest to his sale.

It is not always the lowest-priced goods that are most effective. It is a fact when a purchaser pays a reasonable price he is more apt to be satisfied with his purchase. This applies particularly to the case of flour, where if the quality is good, the results are satisfactory. In the matter of flour, we must refer our readers to the advertisement of the Occident on page 30. It is made by the Russell Miller Milling Company, Minneapolis, Minn.

G. H. Burge, Mount Vernon, Iowa, writes that he has an extra lot of well-bred Short-horn bulls for sale. In fact he has never had their equal as individuals but once since he has been breeding Short-horns. Anyone wanting a herd header would do well to see these bulls before buying. Mr. Burge believes that he can suit the most exacting. His advertisement appears on page 41.

J. B. Heisel, Grinnell, Iowa, informs us he is sold out of boars except his two herd boars, Ex Wonder by Big Ex, and Iowa's Banker, a fall yearling. These he will sell after January 1st. They are good breeders and sires of big, even litters. Both are large, smooth hogs and will be sold reasonable considering their quality. Write for prices, mentioning The Homestead. See page 42.

A book which has been published for the express purpose of giving information on the subject of profitable hog feeding is described in the advertisement of Darling & Co. on page 13. A copy of it may be procured free and at the same time a circular giving complete information with reference to the value as a hog feed of Darling's digester tankage. Write for it today. Address Darling & Co., 4307 Ashland Ave., Chicago, Ill.

In an advertisement on page 38 the Feeders' Supply Company offer cottonseed meal and cake for sale. This firm make a specialty of dealing in cottonseed products and they have information of value to cattle feeders. Cottonseed meal properly fed is a most excellent ration for fattening steers. Full information concerning it together with prices may be obtained by writing to Feeders' Supply Company, Live Stock Exchange, Kansas City, Mo.

Herman Kuhl, Florence, Neb., writes us as follows: "Just a few lines to let you know that everything is coming along fine for my February 13th Poland China bred sow. Things have changed considerably since I saw Mr. White, as a change of location makes it necessary for me to close out my entire herd, including my great show and breeding boar, Big Tom, and also L.'s Quality, the $255 Blue Valley Quality boar. Everything I could I bred to Big Tom and the Big Tom stuff is bred to L.'s Quality and Big Omaha, the latter by Big Victor and out of Olin's Choice. In a year or so, as soon as I can get things straightened out on my new place, I expect to go right on again. I will sell about fifty head

of sows, and among them are as good sows and gilts as ever went through a sale ring."

Those who are adapted to the work find onion raising to be one of the most profitable branches of farm work. Of course the first essential is that good seed be procured. In the advertisement on page 14 the Henry Field Seed Company offer to send free sample of onion seeds to any reader of this paper. Send requests to Henry Field Seed Company, Box 25, Shenandoah, Iowa.

The advertisement of the Sure Hatch Incubator Company makes its appearance on page 22. The Sure Hatch people have reprinted a government bulletin on poultry which is of intense value to every farmer. This book may be had for twenty cents as noted in the advertisement. Big free catalog on the incubator may be had by writing to Sure Hatch Incubator Company, Box 16, Fremont, Neb.

The Des Moines Incubator Company, whose advertisement appears on page 22, give valuable assistance to patrons by furnishing free lessons in poultry raising. These lessons are valuable, enabling the farmer to make more money from his poultry. At the same time you obtain catalog and prices of Des Moines incubators. Address Des Moines Incubator Company, 50 Second St., Des Moines, Iowa.

The Dr. Hess stock tonic advertised on page 11 has valuable properties based on the results of medical experimentation which render it of greatest importance in promoting and maintaining thrift of cattle. The prospective prices of cattle justify care in their maintenance. Read the advertisement of the Dr. Hess stock tonic and for further information write to Dr. Hess & Clark, Ashland, Ohio.

In the matter of low cost coupled with durability and effectiveness, the claims of the Genasco ready roofing advertised on page 29 are not to be overlooked. Trinidad Lake asphalt, one of the greatest and most successful water proofers, is the proper element in this roofing. For prices or descriptions write to Barber Asphalt Company, Philadelphia, Pa., or either of the addresses named in the advertisement.

The Chicago House Wrecking Company again come to the front with a lot of extraordinary announcements in a big advertisement on page 48. They have quantities of roofing, fencing, lumber and other materials constantly in use on the farm that they are selling at bargain prices. Read the advertisement and send for catalogs referring to the materials you want. All are free. Address Chicago House Wrecking Comapny, Dept. AB 39, Chicago, Ill.

Some splendid big-type Poland China sows are advertised for sale by Wigstone Bros., Stanton, Iowa, on page 42. These gentlemen will not make a public sale this winter and they are offering their surplus at private treaty. Inasmuch as their herd has been one of the most prominent winners at the Iowa State Fair the past two years you can assume they have some good sows to offer. If you order right away you can get their very best. Kindly mention this paper when writing them.

An important hint to the farm dairyman is contained in the advertisement of the Indiana silo on page 20. This is that good butter is largely the result of proper feed and that the silo makes it possible to produce such feed all the year round. This hint is only one of hundreds contained in the free catalog and silo profit book published by the Indiana Silo Company. Send request for it to Indiana Silo Company, 321 Indiana Bldg., Des Moines, Iowa, or either of the addresses named in the advertisement.

Notwithstanding the increased interest in the subject of silos, the fact remains that only a small percentage of the more advanced farmers have as yet availed themselves of the advantages of this method of storing feed. Perhaps the condition exists because of lack of knowledge of the importance of the silos and silage in economical feeding. Our readers who are interested should obtain a copy of the 240-page book, "Modern Silage Methods," which is mentioned in the advertisement of the Silver Mfg. Co., Salem, Ohio. Ten cents in stamps accompanying a request addressed as above will secure it. See page 21.

In some respects a horse resembles a man to a remarkable degree. If he is in good condition and physically right, he is apt to feel like doing a good day's work and to do it well. The presence of galls, collar sores, bruises, strained ligaments or wire cuts detract from his working value. As a means of disposing of these difficulties, Absorbine which is advertised on page 26 has proven remarkably successful. As noted in the advertisement, it is sold by druggists at $2 per bottle and it may be had from the manufacturers at the same price. Horse book A1 containing descriptions of the diseases to which horses are subject may be had free by sending a request to W. F. Young, P. D. F., 391 Temple St., Springfield, Mass.

The economy of product that may be obtained by a concentration of manufacturing interests is illustrated in the advertisement of the Rock Island Plow Company on page 20 of this paper. The immense equipment of the Rock Inland Plow Company has been turned into new directions and one of the products is the Great Western cream separator illustrated in the advertisement. It is sold at a remarkably low price and has all the advantages of any other separator. A book which tells all about the Great Western and also shows how a farmer may gain from $5 to $15 on the product of each cow per year can be obtained without cost. Address Rock Island Plow Company, 1838 Second Avenue, Rock Island, Ill.

M. C. Cramer & Son, Monroe, Iowa, are prepared to furnish good early gilts of the big-type Durocs from the most popular breeding. These gilts have a great deal of size and bone. Something of the value of this herd may be judged from the fact that twenty-eight head sold at the state fair at an average of $147. They also have a number of August and September pigs, either sex, not akin, that are large and smooth and must suit the buyer, priced at $15 and $20. See advertisement on page 42.

It is the conviction of this paper that ultimately electric lights will be considered as a necessity on every farm. The low price at which they may be obtained and the insignificant cost of maintenance are worth investigation. We invite our readers to read the advertisement headed "City Lights on the Farm" which appears on page 30. Full details of information concerning the cost of farm plants may be had by writing to the Wood & Spencer Engineering Co., 5612 Euclid Ave., Cleveland, Ohio.

Taylor & Jones, Williamsville, Ill., write: "A few days ago Professor Edmonds, of the Illinois State University, came here and selected for use in the college there a very high-class imported Percheron stallion. We have also sold to our long-time customer, C. G. Decker, Champaign county, Illinois, another imported stallion. We have been selling Mr. Decker his stallions for several years and he is buying better ones each time. We predict for this horse a big season's business, for he is the type that people in that section will admire. We have many more of the high-class type and we will appreciate a visit from prospective buyers of any of the draft breeds." See advertisement on page 47.

On page 41 of this issue will be found the advertisement of Henry Schehl & Sons, Prophetstown, Ill., offering some extra choice Chester White gilts for sale. They write: "These gilts are the best we ever raised, long body, good bone, strong back, good enough to go in any breeder's or farmer's hands. We never pamper them, so that they go backward when you buy them. We always try and satisfy our customers. For the last three years we have sold a lot of our stock through The Homestead and must say that the paper has heard very little complaint. On our part we always tell the facts and never overrate our stock. Our hogs are in the best of health and always have been. We can supply anybody looking for the kind that are bred right and fed right."

CAKE SACKS CAKE

WE sell you our choice Equity brand cottonseed meal and cake, cold pressed cake, at lowest prices. We buy your empty sacks at highest cash prices. We handle all feeds for the feeder. Address
FEEDERS SUPPLY CO., - LIVE STOCK EXCHANGE, KANSAS CITY, MO.

CAKE——CAKE——CAKE

WRITE OR WIRE for delivery price. All Choice Cottonseed Products. Get sample of our Pea Size Cake, suitable for Sheep or Young Cattle. Address
HENSON COTTON OIL MILLS, - 610-11 Live Stock Exchange, Kansas City, Mo.

NEXT WEEK'S SALE PROGRAM

Tuesday, January 7 — Duroc Jerseys, F. Bieth & Son, Joliet, Ill.
Short-horns, Walpole Bros., Rock Valley, Iowa.

Thursday, January 9 — Duroc Jerseys, A. J. Russell, Crab Orchard, Neb.
Poland Chinas, Ben. M. Bell, Beattie, Kansas.

On this page our readers will find the announcement of the Henson Cottonseed Oil Mills which will be of interest to cattle feeders. These mills furnish cottonseed meal and cake of their own manufacture. Their goods are recognized as standard throughout the middle West, as well as many foreign countries. They are now making it a feature of selling to farmers in carload lots. Read the advertisement and for prices address Henson Cottonseed Oil Mills, Live Stock Exchange, Kansas City, Mo.

We are glad to call the attention of our readers to the big advertisement of Montgomery Ward & Co. on page 31 of this paper. A new mammoth catalog for 1913 is now ready for distribution. It describes and illustrates a world of goods suited to the use of farmers which are sold at prices which make each one of them a bargain. Copy of this catalog may be obtained without cost by filling out the coupon in the advertisement and forwarding to Montgomery Ward & Co., Dept. K-17, Chicago, Ill.

J. M. Peery, Alvord, Iowa, will hold his annual Poland China bred sow sale on Friday, February 14, 1913. He has a string of sows carrying the popular big breeding and possessing individual excellence that merits attention from breeders of the best of this breed. An illustration of his old herd boar, Peery's Long Orange by Big Orange, out of Long Kit by Beauty's Jumbo, appears on page 26 this week. This boar has stretch, bone and good feet and has always sired those characters in his get. Watch for further announcements of this sale in later issues of The Homestead.

A good many years ago when the corn planter was looked upon as being still in the experimental stage, the Hayes planter, advertised on page 10, stood as a sample of what the good planter should do. Of course, it has been improved since that, and today it is just as near perfection as any corn planter can be. It never misses a hill, it covers perfectly, plants at any depth and in just that manner which insures growth if conditions be favorable. It is also provided with attachments for planting fertilizer and cow peas. The manufacturers invite a full investigation of the merits of the Hayes. They will be glad to send their booklet P to any reader of this paper. Address Hayes Pump and Planter Company, Galva, Ill.

We again direct the attention of our readers to the announcement of Prof. Jesse Beery on page 8. The advertisement contains illustrations which are right to the point in showing the disastrous effects of permitting the use of vicious or incontrollable horses. Professor Beery has acquired the reputation of being able to train the most vicious horses. He not only possesses this faculty, but he is also able to instruct others as to his methods in such manner as to make them highly successful. Read the advertisement carefully and write for further particulars to Prof. Jesse Beery, Box 54, Pleasantville, Ohio.

O. S. West, of West & Henderson, Paullina, Iowa, writes that they are sold out of boars except one of that good December litter which was used for service in the herd. This pig will not be sold unless the intending buyer sees him. Mr. West has been intimately acquainted with the ancestry of this pig for the past twenty-five years and says he carries the leading prize-winning strains of that period throughout his pedigree. The foundations of his breeding were all state fair champions. Mr. West has over ninety sows bred, the larger portion being matured stock and the known blood lines they carry, mated almost entirely with boars of proven qualities, should produce some good pigs for next season.

The Ford Stock Farm.

The new advertisement of the Ford Stock Farm appears on page 45. This farm has a method of its own relative to the sale of imported draft horses of the Percheron and Belgian breeds and prospective buyers are invited to learn the particulars either by correspondence or by personal visits to the farm. The animals offered for sale were selected in person by Frank Ford, a London horse buyer, having a most extended experience and a wide knowledge of the countries in which these horses are produced. A handsome illustrated circular giving many details may be had by writing to Ford & Harrington, Parker, S. D.

B. B.'s Wonder for Sale.

On page 42 Ben Broughton, Lake View, Iowa, is offering a splendid Poland China herd boar for sale in B. B.'s Wonder. He is a grandson of old A Wonder and is a splendid breeder. He wants to sell him and will price him right. He is a good hog and is all right in every way. Write Mr. Broughton about him at once or go and see him.

A Chester White of Merit.

The engraving of the Chester White, Longfellow, which appears on page 43 in this paper, is the artist's representation of the Chester White hog now standing at the head of the herd of Earl Bloom, Bridgewater, Iowa. Longfellow has an excellent record as a champion at prominent shows. A number of the gilts offered for sale by Mr. Bloom have been bred to him. They also are of prize-winning strains of blood. For prices, write to Earl Bloom, Bridgewater, Iowa.

Leitch & Sons' New Clydesdale Importation.

John Leitch & Sons, the well-known Clydesdale importers and breeders at La Fayette, Ill., write: "We have received our new importation of Clydesdales and we think that we are safe in saying it is one of the best importations that has come to the United States in recent years. The stallions are all big, weighty fellows, possessing the bone and Clydesdale character. In age they range from two years up. The mares are also a choice lot, several of them prize winners in Scotland. This importation, added to what we had on hand, will give us without a doubt the largest and choicest collection of Clydesdales in the United States to pick from. We can safely say that we have on hand more big, weighty ton stallions than all our competitors combined. And our mares all reach the same standard. Sales continue good with us. We have just sold to the Ville Ridge Clydesdale Horse Co. a grand Clydesdale stallion, one of the best that ever stepped in Pulaski county. We also sold to Fred Meints, Danforth, Ill., a great Hackney stallion, a state fair winner and a son of the champion, Copper King. We wish to inform buyers that we have on hand the greatest collection of Clydesdales to be found anywhere and we are quoting them at the lowest possible prices. Parties on the market will do well by writing us for prices and terms." See advertisement on page 45.

YORKSHIRE SWINE.

LARGE YORKSHIRES

30 HEAD of pigs of 1912 farrow, all ages, either sex, not akin, $8 up. Service boars. Sows and gilts, bred or open. W. C. Cook, R. 42, Ada, Mich.

Mickle's Offer Still Good.

H. B. Mickle, president of the H. B. Mickle Fur Coat & Robe Co., 531 W. 7th St., Mason City, Iowa, is still advertising, as our readers will note by referring on page 16, to give a $3 pair of gloves or mittens free with each horse, cow, steer or bull hide which is sent him and ordered made into a coat or robe.

Fortunes in Fruit.

A great deal of money has been made in California by raising fruit. One of the best sections is the Santa Clara valley. E. D. Crawford & Company, 742 Market Street, San Francisco, have considerable land for sale in this valley. Literature and price lists can be gotten promptly by addressing them. See advertisement on page 29.

One Hundred Evergreens for $7.50.

Mr. Earl Ferris, proprietor of the Earl Ferris Nursery, Hampton, Iowa, again offers to ship, express prepaid, 100 twice transplanted and twice root-pruned evergreen trees for the small sum of $7.50. It is a very liberal offer and many of our readers in the past few years who have taken advantage of it have been well satisfied. See advertisement on page 15.

Moats' Duroc Jersey Sale.

M. S. Moats & Sons, Missouri Valley, Iowa, announce a public sale of Duroc Jersey bred sows to take place at their farm on January 11th as per advertisement on page 41. They are offering an excellent consignment of sows and gilts, fifty head in all, most of which are daughters of or bred to King the Col., their well-known herd boar. These sows are good ones, with quality, size and finish. They are bred for early litters.

Closing Out Poland China Boars.

Those of our readers who want a good boar will be able to buy a good one from James Cockerton, Whiting, Iowa. He has about ten for sale and they are sired by Big Wonder and Orange Jumbo. These are of the big-type, quality kind and they are well worth the price he is asking for them. They go at $25 and $30 if ordered soon and you can rely on his sending you a good one. When writing him kindly mention The Homestead. See page 42.

Bellows Bros. Sell Short-horns June 10th.

Bellows Bros., Maryville, Mo., will hold their annual sale of Short-horn cattle on June 10th and are prepared to offer breeders and those founding herds a great string of breeding cattle. Good Choice and Diamond Goods, their senior herd bulls, will be represented in the sale by several choice sons and daughters and a fine string of valuable breeding matrons in calf to them. Watch for future announcements and remember that the Bellows Bros. invite all lovers of good cattle to be their guests on June 10, 1913.

Freed's Duroc Jersey Sale.

We are pleased to call the attention of our readers to the sale announcement of S. P. Freed, Ames, Iowa, on page 41. Mr. Freed is this year offering a consignment of Duroc Jersey sows and gilts that are a little more valuable than any he has before driven into the sale. This is saying a good deal when it is remembered that on former occasions Mr. Freed has distributed among his patrons a good many brood sows and scarcely one of them has failed to be a good producer and a profitable investment for the buyer. This year there is an excellent proportion of tried brood sows and fall yearlings. Some of these are by Crimson Wonder 3d, B. & C.'s Col., Manley Orion, Model Chief To Be and Young Rupert. All these have been bred to Freed's Col., the grand champion Iowa State Fair winner that has developed into an animal of considerable size and extraordinary merit. There will also go into the sale five tried sows, four fall yearlings and a number of gilts, daughters of Freed's Col., and these will have been bred to Wonderful Crimson Again. The Freed's Col. sows are good ones with attractive form, finish and real breed merit. All of them have size enough. In later issues of this paper additional information will be given. In the meantime we wish to assure our readers that no more desirable Duroc Jerseys will go into any sale this year. They have been fed in a good, practical, common sense way on oats, wheat, shorts and oil meal. They have run on pasture all of the time and have plenty of exercise and as a result they are in perfect breeding form, thrifty and absolutely good health. The sale will be

held Monday, January 20th. For catalogs address S. P. Freed, Ames, Iowa.

Heavy Corn Hard on Mills.

The heavy corn raised this year is a severe test of grinding mills. The lighter mills are in some cases not standing up under the work. One mill that seems to be giving general satisfaction is the heavy Mogul Four Burr manufactured by the Bovee Grinder & Furnace Works, 100 8th St., Waterloo, Iowa. This mill is made in two sizes, one size handling twenty to fifty bushels per hour, operated by two horses, while another handles from forty to eighty and is operated by four horses. Prices and more particulars can be secured by looking up the advertisement on page 10.

Woulf's Sale of Percherons and Belgians.

Fifty head of imported Percheron and Belgian stallions and mares will be offered at public sale at Streator, Ill., Tuesday, January 14th, by Thomas and James Woulf. These horses are all good young ages, yearlings to four year olds, all acclimated and a strong, rugged lot of horses. The Belgian mares are all bred to the champion stallion, Mayor d' Hoorebeke, and the Percheron mares were all served in France by government-approved sires. The sale will be held on the farm, eight miles from Streator, which is on five lines of railroad, and four miles north of Blackstone on the C. & A. and four miles from Ransom on the Santa Fe. Look up the advertisement on page 41 and write for particulars to Thos. and James Woulf, Streator, Ill., mentioning The Homestead when you write.

Breeders' Horse Sale Will be January 22d and 23d.

The breeders' sale of Percheron, Belgian and other draft horses that will be held in Lincoln, Neb., on January 22d and 23d, is under the management of the well-known horsemen, C. F. Way, Lincoln, Neb., and H. K. Frantz, Havelock, Neb., and will be made up of a lot of choice horses, most of which have been personally inspected by these gentlemen and are consigned by many of the best breeders in Nebraska. The writer recently saw a part of the offering and it was made up of some of the best Percheron and Belgian mares that we have seen go in a Nebraska sale in the past few years. The dates formerly held for this sale were January 15th and 16th, but the dates that have now been decided upon are January 22d and 23d. Keep the date in mind and address either of the above named men for catalogs. When writing kindly mention The Homestead.

Walker & Son's Great Poland China Sale.

One of the great Poland China sales that will be made this winter will be made by Thos. F. Walker & Son, Alexandria, Neb., the sale to be held at Fairbury, Neb., on February 15th. In this sale will be offered some of the greatest sows ever bred by these well-known Poland China breeders. Many of the get of the famous Blue Valley will be listed, and most of these will be bred to a corking son of Big Orange. He is called Blue Valley Orange and that cross certainly should make good. Others that are the get of Mouw's Longfellow will be bred to Blue Valley. This cross is no experiment. Instead, it has been the one that produced some of the very best that this herd has raised for some time. Keep this great sale in mind and send for a catalog if your name is not already on the list, for Walker & Son do not want to miss anyone this year. Watch this paper for further announcements.

Walpole's Great Short-horn Offering.

The sale of Walpole Bros.' Short-horns, at Rock Valley, Iowa, on Wednesday, January 8th, is one of the best offerings of Scotch cattle these people have put out for several seasons. The lines of Scotch blood included are of the best and therefore are of the very same sort which are to be found in the greatest herds in the country. As a place to buy good herd bulls, this sale stands as far toward the front as any. Such bulls as Parkdale Goods, the herd bull being offered, with the testimony of his own get right in the herd to prove his excellence, makes it a strong herd bull sale, but with the other younger bulls, all rich in the best Scotch blood, gives the sale added importance. The females are all the sort that make good in breeding herds. All but a very few are pure Scotch and eight of them out of imported cows. One of these is No. 1 in the catalog, selling with a red heifer calf by Parkdale Goods at foot. She is Honey Flower by Gloster Valentine out of Imp. Honey Queen 2d, a cow that has gotten good calves and is the big, rugged sort, with lots of room, a good milker and capable of making a pretty beef block when fitted. The cow, Fair Maid 2d, also by Gloster Valentine, and out of Imp. Fair Maid, is a very richly bred Orange Blossom, and is valuable not only as the big roan she is, but because of the excellence of her offspring to be sold in the sale. There are eight of this family, including one young bull, all originating from Imp. Fair Maid, to be sold in the sale, and all are good ones. A number of the cows have calves at side and will be safe in calf, most of them to Parkdale Goods, by sale time. The entire lot of females is a breeding lot and all are in their prime of usefulness or with it before them yet. To say it is one of Walpole's strongest offerings is giving it a good character and we feel certain that it is an offering that contains something of value for anyone who can use more breeding stock in his herd. Write now for catalogs, kindly mentioning The Homestead when you do. Address Walpole Bros., Rock Valley, Iowa. Advertisement on page 43.

Stumps and Hedge Rows Quickly Pulled.

Some weeks ago the Hercules Mfg. Co., Centerville, Iowa, furnished this paper with a list of the names of its readers who had purchased their stump pullers during the past year with the request that the owners be written to and asked what success they had had with the machine. The idea was that the owners would reply much more readily and express themselves more freely to this paper than to the company. A large number of letters were sent out and most of the answers have now been received. Without an exception everyone so far answering has reported that they are well satisfied. Some few had a little trouble the first day or two before they thoroughly understood the machine, but afterwards secured good results. The Hercules Mfg. Co., 141 21st St., Centerville, Iowa, publish a very interesting book on pulling stumps which will be of interest to all of our readers who have either hedge rows, willow rows or stumps to pull. The book is filled with pictures and is very interesting. It may be obtained free by writing the company. See advertisement on page 10.

Butler's Percherons and Belgians.

A desirable lot of young stallions and mares, both Percherons and Belgians, are offered by W. J. Butler, Ottawa, Ill., whose advertisement will be found on page 45 in this paper. Mr. Butler is both an importer and a breeder, and the young stallions that he is offering are the get of imported horses and out of some very high-class imported mares that Mr. Butler secured in Europe a few years ago. Mr. Butler carries on his business at the minimum of expense, hence he is enabled to give buyers a very close price, backing his horses up with a guarantee that is ample in every way. These horses are all blacks and grays, the good-boned, heavy-muscled, strong-going kind, and are a thoroughly conditioned and acclimated lot of horses. The mares that Mr. Butler has for sale are an attractive lot and will be priced worth the money. Prospective buyers will make no mistake by inspecting this lot of horses. Ottawa is easy of access, being on the main line of the Rock Island railroad, as well as on the Aurora and Streator branch of the Burlington and on the Chicago, Ottawa and Peoria interurban.

Colonel Duncan to Prospective Missouri Auction School Students.

You want to be a business man, earning from $1,000 to $5,000 every year, enjoying the respect and confidence of every one, and working not more than 125 days out of each year. Read on—this is going to get mighty interesting. Would you think it worth while for you to make $40,000 or $50,000 in the next ten years, without investing more than $200? You can do this if you will. It's simply "up to you;" other men are doing it everywhere, "why not you?". Auctioneering is the greatest money-making profession known. There is "no limit." "Listen." The auctioneers who are making fortunes are men who had sense enough to stay in the game and fit themselves for the business. The average man puts in all of his life "dreaming" about getting into a paying business. We cannot dream ourselves into better things. Have you been "dreaming" about a big paying auction business? If so, let me suggest that you "wake up" and get busy. Did you ever stop to think that you have as good an opportunity to be earning $5,000 a year, five years hence, as any other man has? Why doubt your own ability? "Our doubts" are traitors which make us lose the good we oft might win by fearing to attempt. Are you going to "doubt" yourself into failure? Or are you going to pull yourself together and attend the Missouri Auction School at Kansas City, Mo., this coming January 6, 1913, so you will be earning from $1,000 to $5,000 a year within a short time? I will be at the school during the first week of the term and I want to meet "you" there. I want to help prove to you that "you" can make a "success" just as well as any other man. I want to meet you face to face and tell you the "secrets" of "success" in the auction business. Just a month's time and a few dollars. Who would not give as much for a great business "career?" The man who would not prefers to be a failure. I want to meet you at Kansas City, January 6, 1913. Start when the term starts. "Are you coming?" See advertisement on page 43.

Van Steenburg's New Importation.

A. Van Steenburg, Ogden, Ia., writes from Liverpool that he is just shipping another strong importation of heavy Belgian and Percheron stallions and mares to his barns at Ogden. The importation should be in New York now and consists of stock ranging in age from two to five years. It will be one of the best lots ever shipped by Mr. Van Steenburg. He has been careful to select horses which are in demand now, the kind which fill the needs of farmers and stallion owners who are seeking better horse flesh. These horses are described as good in body, with clean, flinty bone, plenty of substance and possessing excellent action and freedom of movement. With the fine crop of yearlings and sucklings reared at his home place this importation makes one of the good collections of Belgians west of the Mississippi. Mr. Van Steenburg will be glad to have buyers come to inspect this stuff as soon as they are ready and will be certain to please in both quality and price. Address A. Van Steenberg, Ogden, Iowa. See notice on page 45.

C. T. EGGERT'S FIRST SALE

DUROC JERSEY BRED SOWS

Will be Sold in Sale Pavilion

AURORA, NEBRASKA,

SATURDAY, JANUARY 18, 1913

THE sale offering will include thirty-five head of REALLY TOPPY SOWS. They are drawn from the very best that has been produced in Nebraska in recent years. Three fall sows, daughters of CRIMSON CRITIC are hard to duplicate. The great sow, ROYAL BLOSSOM 6TH, also her daughter, ROYAL BLOSSOM 8TH, a winner of note at Nebraska State Fair and sired by I Am A Crimson Wonder 2d are included. The remainder of the offering are gilts sired by GOLDEN MODEL V, WATT'S MODEL and my great breeding boar CRIMSON NIG by Crimson Clipper out of Royalty 3d by Ohio Chief. They are bred to COL. AGAIN by COL. CHIEF and out of CHIEF'S MAID, the Iowa champion this year and litter mate to the 1911 champion boar, VALLEY KING, also some are bred to CRIMSON NIG. His get in the sale will show how he breeds. Sows in this sale for the best breeders. We will appreciate your patronage. Try and be with us. Cols. N. G. Kraschel, Mason and Wood, auctioneers. J. C. Price, field man. Mention The Homestead and address for catalog

C. T. EGGERT, JR., AURORA, NEB.

U. S. 30079, ONE OF THE GREAT CHESTER WHITE BOARS OF THE COUNTRY. SEE FIELD NOTE PAGES.

Quelland's Hereford Dispersion.

Chas. Quelland, Williams, Iowa, will disperse his entire herd of Hereford cattle at public auction on January 21st. Twenty-three head comprise the offering, consisting of seven bulls and sixteen females. The great herd bull, Baldy, sells, and while he is nine years of age, yet he is a valuable proposition to some breeder. He is a massive, smooth bull with lots of character and excellent lines. He has a good spring of rib, deep quarters and, in fact, is good all through. In nice breeding condition he weighs 2,200 pounds and in high flesh would easily weigh 2,600 pounds. His calves show his ability to sire good cattle. He was bred by B. F. Clark, Albia, Iowa, and was in the Wheeler herd for a time. He is sired by Eureka and out of Eulala B. Any of our readers wanting a herd bull should keep this fellow in mind. There are also some good bull calves in the sale. Write for any information you want to Mr. Quelland as per his advertisement on page 43. When writing kindly mention The Homestead.

Choice Hereford Bulls for Sale.

On page 44 will be found the advertisement of Ben Broughton, Lake View, Iowa, who is offering seven head of very excellent young Hereford bulls for sale and these are strictly choice and good enough to head good herds. These bulls will range from thirteen to sixteen months, several will make splendid herd bulls and one of the very best is Dobson 386533, sire Beaumont Jr. 233039, a bull that Mr. Broughton has used several years on his Dudley heifers with excellent results. The dam of this bull, Dobson, is Dimple, one of his show herd in 1907 and a cow that never failed to drop a good one. This bull fills the eye and looks good from every point of view. Another one is Grover 386537, sire Lord Dudley, a son of the Iowa State Fair champion bull, Dudley, and out of Gertrude by Beaumont Jr. In this bull you will find the blood of old Dudley intensified and the result is a bull of magnificent type, low down, blocky, with plenty of bone and lots of quality. In other words, there is not a poor bull among the seven and Homestead readers who are in need of a bull to head their herd cannot afford to overlook this opportunity to get a herd header. One thing further we will say about these bulls, and that is that the man who is going to need one cannot afford to wait, as the good

bulls are not in the country and here is one of the opportunities to buy a herd header. The thing to do will be to get on the train and go and see these bulls just as soon as you can. If you write Mr. Broughton kindly mention The Homestead.

Holbert's Imported Horses.

One of the largest importers of registered draft horses in the states is A. B. Holbert, Greeley, Iowa. At the present time some 150 imported stallions and mares can be found at their barns. They have landed several importations this season and have enjoyed an excellent business. The demand has been so strong that Mr. Holbert realized he would not have enough horses to supply the trade and for this reason he returned to France and Belgium to arrange for several more importations to arrive at intervals during the next few months. Associated with Mr. Holbert are his four sons and the co-operation he receives from them is a big asset in such a large business. Belgians and Percherons are found here in largest numbers, but of course all the breeds are represented. There are some excellent specimens of the Percheron and Belgian breeds in a number of two-year-old colts weighing from 1,800 to 2,000 pounds. They are a heavy-boned, drafty lot and would suit any good judge. See page 45 and if interested in a good stallion or mare write Mr. Holbert, mentioning The Homestead.

Murray's Forthcoming Chester White Sale.

On page 39 of this paper we reproduce a likeness of the great Chester White boar, U. S. 30079, the sire of the greater part of the young things that will be offered in the grand annual Chester White sale that will be made by Chas. H. Murray, Friend, Neb., on February 7th. This will be without question the greatest lot of Chester Whites that will be offered in the West this winter. They are of splendid blood lines, of good conformation and are all cholera immune. They are the kind of hogs that the breeder or farmer who has been visited with the disease the past season may buy with safety, and they are likewise the only kind that the breeder or farmer who has escaped the disease the past season should buy. They should be safe property. Further announcement of the sale will appear in early issues of this paper, and in the meantime send in your name that you may receive the catalog as soon as out. A big lot of sows will be offered bred to the great breeding boar, Fairmont Chief, and he is one of the big kind. Keep the date in mind and when writing kindly mention this paper.

The Dietsch Short-horn Sale.

Among the top offerings of Short-horns that will be sold this winter the offering that will be put up by K. F. Dietsch, Orleans, Neb., sale at Scribner, Neb., for January 15th, will take high rank. They are all of good breeding, many pure Scotch, and of the best Scotch at that, while many of the others lack but a cross of being pure. They are good individuals and will be sold in good breeding condition. Those of our readers in search of a good bull to head their herd will be able to secure him in this sale, likewise the ranchman and the farmer will be able to fill their wants in this offering of bulls. The female offering is one of the best sold in this section of Nebraska for a long time. Some choice breeding matrons are offered, also some extra choice young things, including a few very fine show heifers. One of these last mentioned has already done well at the state fair. She is a two-year-old daughter of Victor's Roan Duke. Others by the great breeding bull, Morning Star, are of choice make-up and the breeding is excellent. Make it a point to attend this sale if possible. It will be a good place to do business. When writing for the catalog address K. F. Dietsch, Orleans, but remember that the sale will be held at Scribner, Neb. When you write mention The Homestead.

Pritchard's Duroc Jersey Bred Sows.

In this issue Robert Pritchard, Carroll, Neb., advertises some strictly choice Duroc Jersey bred sows and gilts that will be certain to suit discriminating buyers. There are not a great many of these to be sold and all are in good condition. The sows are all yearlings, nothing old offered. An early order will be certain of being filled with individuals worthy of consideration by good breeders who are looking for stock with which to raise the standard of their herds or to maintain an already high standard. There is a January sow by a son of old Frankfort K., a boar famous in this herd as a prize winner and sire of high-class hogs, and out of Gladness S. S. by Carl Scott Again, that is big, even, deep, a good type and a good brood sow. She is bred to King of Kings by Watt's Model, a boar Mr. Pritchard got of Wm. Moderow at his fall sale, paying the top price of the sale for him. This boar has been used on all the gilts. He is a big one for his age, has a good color, is even in his lines, stands well on his toes and has a good bone. His dam is Sweet Rose II. by Golden Model V. by Golden Model 2d, her dam being a Proud Advance sow. The gilts Mr. Pritchard offers bred to him ought to make the usual good cross that is generally seen in this herd. There are three gilts by a son of Golden Model 2d that, bred to the stretchy King of Kings, will produce some good pigs. Soo King, the sire of several of the gilts, will be remembered as one of the great under-six-months litters shown by Sol Frank at Sioux City in 1911. Write Mr. Pritchard for his prices and descriptions and get an early order in. Address Robert Pritchard, Carroll, Neb. See page 42.

Naiman's Expansion Fall Pigs for Sale.

With this issue of this paper, John L. Naiman, Alexandria, Neb., is starting, an advertisement offering a choice lot of Poland China fall pigs for sale that are all the get of his well-known herd boar, Naiman's Expansion, by the champion, Expansion Over by Expansion. This boar is doing a great work for Mr. Naiman and at the prices asked for the fall pigs it surely looks as though most anyone could afford to own a bunch of pure-bred Poland Chinas. They are being priced at $12.50 each or three head for $35. They are out of good sows, many of them coming from the well-known herd of Thos. F. Walker & Son, Alexandria, Neb., and such breeding as this certainly should meet with favor. Those living long distances will do well to order at once, as you will get the choice thereby, and the saving in express is a considerable item. Also, anyone can afford to grow these pigs for the difference in price asked for these at this age and the price the same hogs would command at the age of six or seven months. Mention this paper and order from Mr. Naiman at once. Mr. Naiman states that they are all out of litters ranging from eight to eleven pigs per litter and all about the same age. He states also that he will furnish pedigree with each pig and ship in neat, strong crates. See page 41 for Mr. Naiman's advertisement.

Thos. L. Leonard Offers Red Polls.

The writer recently visited the farm home of Thos. L. Leonard, Beaver Crossing, Neb., and spent a little time in looking over the herd of Red Polled cattle owned by him. We are frank to say that we thought them a great lot of stuff, taken as a whole from the excellent crop of calves sired by the champion, Luther, and Bill Taft, to the aged herd bull, Uno. Among the number are the splendid cattle shown by Mr. Leonard last fall and which won many of the best places, and in competition with some of the oldest established herds of the country. The herd takes, as a whole, the distinctly dual-purpose type, the sort that combine much milk with as much beef as possible. They are the sort that flesh easily, as was demonstrated by their neat, well-finished appearance at the fairs this fall, and that they are heavy milkers is shown by the splendid udder development that is characteristic of all the females of this herd. They look to the writer like the cattle one should buy who is looking for the greatest amount of milk possible to obtain, and at the same time secure cattle that will make carcasses that will market well. The noted bull, Uno, is for sale, and he is a bull that will do much for many herds. He is bred from a strong milking family and is a show bull of importance, having won first at five state fairs in 1911 and was second at Chicago. He is sired by Patriarch Jr. and comes from the well-known Hartline herd. The two-year-old bull, Breadwinner, is a pleasing animal and one possessing true merit. He was first at six of the principal western shows this fall, and is nicely bred. He was got by Chicago by Falstaff and out of the great breeding and show cow, Baby by Frank by Mart. Another choice bull is Walter by Bill Taft and out of Blush by Happy Jack. This young cow traces to Happy Jack on both sides, making her a line-bred Happy Jack cow and is one of the best producers in the Leonard herd. There is also one young bull by W. F. Schwab's noted young bull, Valentine, and he is a good one. Also one or two by the champion, Luther, and one by Bill Taft. One of the young bulls by Luther is out of the great show cow, Tulip, a cow that has been a persistent winner and of great scale, weighing easily 1,600 pounds. The females that are for sale are of much the same blood lines as the bulls mentioned and we believe that those of our readers who are looking for really choice cattle will be able to find them in the herd. The herd is located about two miles from Beaver Crossing and about seven miles from Friend. Beaver Crossing is on the C. & N. W. and Friend is on the main lines of the C., B. & Q. Mr. Leonard will meet interested parties at either place by appointment. When writing for further particulars kindly mention The Homestead. See advertisement on page 41.

BEN. M. BELL'S

SALE OF

POLAND CHINA BRED SOWS

TO BE HELD ON THE FARM NEAR

Beattie, Kan., Thursday, Jan. 9, 1913

50 Head of Richly Bred Yearling and Two-Year-Old Sows **50**

BRED for February and March farrow to five great boars, Bell Metal, the greatest Expansion Boar, What's Ex, the noted Nebraska Jumbo boar, B's Hercules, Bell's Long King, by Long King's Equal and a good son of A Wonder. The sows in this offering are sired by many noted boars and are out of the great line of matrons that have made this herd famous. The offering will be presented in the best of condition, not overloaded with fat, but in shape to go on and make good. John C. Haldermann will represent this paper at the sale, and look after all business intrusted to him.

Col. H. S. Duncan, Auctioneer. For catalog address

BEN M. BELL, - BEATTIE, KANSAS

Please mention The Homestead when writing.

Ben M. Bell's Sale January 9th—Last Call.

We are calling attention for the last time to the annual bred sow sale to be held at Beattie, Kan., Thursday, January 9th, by Ben M. Bell. Probably no breeder of the big-type Poland China is better or more favorably known throughout the corn belt than Ben Bell. Most every herd of big-type hogs in the West contains some of the breeding of his herd. For years past the get of the famous boars, Bell Metal and What Ex, have furnished the basis of the Bell sale offerings. The offering this year is no exception, as daughters of these noted boars bred to three as good young boars will predominate in the offering. A few head bred along different blood lines will be bred to Bell Metal. The offering will consist of upwards of fifty head and are mostly spring, summer and fall yearlings. They are a very growthy, smooth lot, having been grown with plenty of range and pasture and will be in prime condition to make good in the hands of the purchaser. While Mr. Bell's offering are never presented in high flesh, they are offered in good, healthy condition and the fact that the same breeders are present year after year at his sales and are repeated buyers is proof positive that the hogs go out and deliver the goods. It would be a thankless task to mention the lots in detail, as the entire bunch is good, and it would be hard to name any particular attractions. However, we might mention a Bell Metal sow out of a full sister to Hercules, bred to Bell's Long King for early March farrow; two summer yearlings by What Ex out of a Bell Metal dam, bred to Long King; two summer yearlings by What Ex out of Highland Lady, one bred to Bell Metal and one to Long King, and two growthy spring yearlings by the champion, Colossus and bred to Long King, as giving a fair idea of the breeding and class of the offering. The offering is bred to B.'s Hercules by Nebraska Jumbo, Bell's A Wonder by the great Fesenmeyer boar, A Wonder, and Bell's Long King by Long King's Equal. A few are also bred to Bell Metal. If you have not already received a catalog write for one at once and arrange to attend this sale. If unable to attend, any bids sent in care of Mr. Bell to John C. Halderman, who will represent this paper at the sale, will be carefully looked after. See this page and in writing for further information kindly mention The Homestead.

BEST FIVE CLYDESDALE STALLIONS AT 1912 ILLINOIS STATE FAIR. OWNED AND SHOWN BY JOHN LEITCH & SONS, LA FAYETTE, ILL.

Recent Sales at Pioneer Stud Farm.

J. G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "We have sold to A. O. Crooks, O'Brien county, Iowa, an outstanding two-year-old Shire stallion, winner of first prize at the Bushnell Horse Show. We feel greatly interested in this sale for the reason that this is the third Shire horse that we have sold Mr. Crooks without his seeing any of them, and in each instance he has been highly pleased. To Schwake Bros., Goodhue county, Minnesota, we sold an imported Hackney stallion and a black Percheron stallion. To Orlin Kirk, Crawford county, Illinois, an imported Shire stallion and a pair of imported Shire mares. The Money Creek Horse Company, Houston county, Minnesota, selected an imported gray Percheron stallion. This is the second stallion we have sold this company. Our old customer, S. J. Huston, Louisa county, Iowa, purchased a pair of imported Percheron mares. To John H. Duis, Dawson county, Nebraska, we sold three imported Shire stallions. Mr. Duis has one of the best breeding barns in the state of Nebraska. To our old customer, Frank Stoddard, Coles county, Illinois, we sold an imported Shire stallion. This is the third stallion we have sold him. Dunham Bros., Louisa county, Iowa, purchased the noted Shire stallion, Jester. These gentlemen have a stud of pure-bred Shire mares and this is the second Shire stallion we have sold them." See advertisement on page 47.

C. T. Eggert, Jr., Offers Choice Durocs in Sale January 18th.

One of the first sales of Duroc Jerseys to be made in central Nebraska is the one that will be made by C. T. Eggert, Jr., Aurora, Neb., on January 18th. Mr. Eggert will offer in this, his first sale, a really choice line of sows, ones that any breeder in the country could use. They are all of good blood lines, having come from a foundation purchased from Briggs Bros., Seward, Neb.; J. S. Beem, Bethany, Neb.; Con McCarthy, York, Neb., and W. M. Putman & Sons, Tecumseh, Neb. These herds are herds of note and have really produced much of the good hogs of the state the past few years, and Mr. Eggert, in buying from these herds, has selected none but the very best. His present herd boars are Crimson Nig, a son of Mr. McCarthy's famous breeding boar, Crimson Clipper by C. W. Again, and he is out of Royalty 3d by Ohio Chief. The other herd boar is the sensational boar sold in Putman & Sons' fall sale. He is Col. Again and by Col. Chief by Ohio Col. His dam was the great show and breeding sow, Chief's Maid by Valley Chief and a litter mate to Valley King, the noted champion of the 1911 shows. Chief's Maid was the champion sow at Iowa this season. We consider Col. Chief a great proposition in the way of a herd boar and his ancestry could not be improved upon, as he is out of a champion sow, she out of a litter of champions. His sire was fifth-prize boar at Nebraska last fall and the writer attended some state fairs where he could have easily won first. Nebraska put up the best hog show seen in the United States last fall and a boar that could win fifth was some boar. His grandsire was a champion boar in 1910 and is being appreciated today as one of the great boars of the breed. We believe that these Crimson Critic, Golden Model 5th and Crimson Nig gilts bred to Col. Again will certainly make good. Royal Blossom 6th, a litter mate to the great Royal Critic and the dam of the great breeding and show boar, Crimson Critic, is to be sold in this sale. She is bred to Crimson Nig. Her daughter, sired by I Am A Crimson Wonder 2d, is also to be sold

and she is a great proposition. Keep this sale in mind and try and attend. If unable to be on hand send your bids to J. C. Price, Homestead representative, and you will be well taken care of. This should be a good place to buy, for there are included those that will show and all are choice breeding stuff. Not a bad back or a rough one in the whole lot. Send for catalog today and mention The Homestead when you write.

Union Stock Yards, Chicago, Ill., December 27th.—Christmas week in the live stock trade has been of even more restricted volume than usual for that holiday period, and the sharp reduction in the marketing has resulted in a materially improved condition of the market, especially for bovine and ovine stock. The improvement noted, however, is traceable to lightness of supply rather than to a broadened demand, and despite the gains recorded it is still evident that the outlet is of such narrowness at this time as not to invite a big movement for the coming week.

During the first five days this week Chicago receipts total only about 25,000 cattle, 84,000 hogs and 72,700 sheep, while six western markets report an aggregate five-day supply of 72,000 cattle, 190,000 hogs and 131,000 sheep, as against 162,000 cattle, 299,000 hogs and 217,000 sheep the like period last week, and 99,000 cattle, 256,000 hogs and 147,000 sheep a year ago.

In the cattle trade the Christmas holiday and recent declines combined to cause a marketing of far below normal volume, the week's receipts being decidedly the smallest of the year, and, in fact, about the smallest within the last decade, barring "strike time." Naturally, under a local supply 40,000 short of the week previous, there has been a fair rebound in prices, yet the attitude of buyers during the last half of the current week has been one of no great concern as to getting hold of cattle on foot and very suggestive of the fact that anything more than moderate receipts during the immediate future will give the buying side opportunity to mete out punishment to shippers.

A generous run at this time would surprise no one, as little as it is needed. The recent break in prices had the effect of impairing confidence, especially among holders of cattle that must be marketed within the next sixty days. Iowa feeders are still in possession of a good many cattle that they are anxious to unload before the assessors begin to make their rounds, and while dodging a tax bill in this manner has always proved expensive, the same stereotyped tactics are resorted to every year. Even present prices are high and with abundance of 35-cent corn feeders are hardly to be criticised for expecting further depreciation. It should be remembered, however, by those anxious to liquidate half to two-thirds fat cattle, that the replacing of such cattle in the feed lots will be attended with greater difficulty and at a higher cost than usual. There would seem to be ample reason for the prediction that those who have the feed, the hogs, good feed yards and shelter and who are yet pursuing the policy of marketing warmed-up and half-fat cattle of good quality will have cause later for red-eyed regret.

The volume of business in beef steers now above the $8.75 line is meager, bulk of the fair to good 1,200 to 1,400-pound weights selling here this week at $7.75 to $8.65, medium-weight cattle of more ordinary class going at $7 to $7.65 and common and plain light killers from $5.50 to $6.75.

Trade in butcher cattle has developed more animation and strength during the week than has the steer market. Closing prices are largely 30 to 50 cents higher on medium to best grades of cows and heifers than a week ago, while canners and cutters have advanced about 15 cents and the bull market has well recovered its slight decline of the previous week, bologna stock making the best prices of the season. Fancy heifers occasionally sell up to $8 to $8.75, but the volume of business at $6.50 or better is small and most of the fair to good killing heifers are selling on a $5.50 to $6.25 basis, a good to choice class of beef cows within the same range, ordinary to fairly good killers from stalk fields at $4.40 to $5.25, fair to good cutters from $3.90 to $4.25 and canners chiefly from $3.40 to $3.85, only thin old shells at $3 or lower. Butcher bulls are selling largely from $5.75 to $6.25, occasionally a fancy heavy beef bull up $7 or better and fair to good bolognas from $5.15 to $5.55, only common light bulls at $5 down. Calves have been in small receipt and have advanced about 50 cents during the week, a few fancy vealers touching $10.50 at week-end and bulk of the good to choice at $9.50 to $10, with big calves taking a range of from $4.25 to $7.50 for inferior to choice, bulk of the good fat 300-pound weights around $6 to $6.50.

Holiday conditions cut down the attendance of buyers in the stocker and feeder alleys very materially, business of the week being of less than one-fourth the volume of the week previous. Demand, however, was well up to normal for the Christmas season, and although prices have eased off about 15 cents during the week, values are still really about the highest in trade history for this time of the year, an abundance of corn and cheap feed inducing the taking on of many young cattle even at very high cost, as it is held that relatively cheap corn will pay out well converted into beef to sell at prices not so much higher than their cost as feeders, and then there is by no means an altogether remote chance for a very high spring market for beef again. Some fancy 793-pound Angus feeders sold this week up to $7.40 and a few loads of 875 to 1,000-pound feeders have sold at $7.25 to $7.35, but $6.35 to $7 has taken the bulk of the 700 to 900-pound weights of fair to good class and most of the stocker grades have sold from $5.25 to $6.25, only a light and inferior sort at $5 or lower.

A slight reaction in hog values today induced largely by the expectancy of a liberal run next Monday, was the first setback the market has experienced since December 18th last when prices touched the lowest level recorded since last March. By steady gains on this week's modest supplies the top on Thursday was pushed up to $7.70 and although sales today averaged a point lower, the market stands with top and average prices at $7.65 and $7.46, respectively, on a 22½c higher basis than a week ago. Much of the advance was due to the development last Monday of a good eastern shipping demanded, through which traders on the selling side begin to see the dawn of a broader outlet that will take care of the customary January increase in receipts without damage to prices. While the light supply of the past two weeks has been due in some measure to the 50c break early in December, which put many country shippers out of business and prompted growers to reject 6-cent bids at interior and loading points, the fact remains that disease has eliminated a lot of hogs from the winter supply prospect and that last year's cholera ravages have placed thousands of growers in a position where they have no hogs to sell. That the territory from which Chicago draws its hog crop will furnish a much smaller run in 1913 than in 1912 is certain. There is a well-grounded impression in market circles that cheap feed may hold many hogs back until late in the winter, although disease is still responsible for much enforced liquidation. At present growers are disposed to put hogs under lock and key whenever the Chicago market does not warrant country buyers bidding 7 cents at interior loading points. The bulk today sold from $7.40 to $7.55, pigs largely from $6.65 to $7.10.

Advances measuring from 35 to 65c on the bulk of the fat sheep and lambs, with the latter showing the most pronounced gain, have resulted this week from the arrival at the six leading western markets of a supply 86,000 short of the week previous and light runs East that were responsible for the development of a strong eastern shipping demand. Big weight in lambs and yearlings continues to encounter severe discrimination, especially when the 100-pound line is crossed. Scarcity of matured sheep has caused the discrimination against weight in that class to be less pronounced, but killers are using yearling product to atone for deficiency in lamb supply and want to get as near lamb weights on the hooks as possible. If the country merely refrains from filling the market hopper to overflowing the present healthy state of trade conditions can doubtless be maintained. In view of the discrimination against overweight, which will doubtless continue, the feeders' policy should be, in trade opinion, to put stock over the wheels about as rapidly as it gets fat, but market prospects and cheap feed do not appear to make the marketing of light half-fat stuff in thrifty condition savor of good judgment. Today's prices were up to the best of the week, and the highest since the boom market of last spring was in its collapse. Prime handyweight lambs sold up to $8.75, bulk of the good fat classes of tidy weight at $8.25 to $8.65, a fair class of light and good to choice heavy lambs from $7.75 to $8.15 with some good lambs of extremely heavy weight down to $7.25. Fancy 91-pound fed western yearlings touched $7.50, bulk of the fair to choice handy yearlings from $6.50 to $7.25 and right good 100-pound yearlings at $6.25. Best aged wethers sell up to $5.50, and $4.50 to $5 is taking fair to prime fat ewes. Feeder demand is still insatiable with very little in the run suitable for country outlet. A string of 5,500 little 44-pound Montana lambs has been here this week to sell at $6.90 to $7, highest prices of the season for their class, and some trade has been done in second-hand feeders from corn-belt territory up to $7.25 to $7.40.

WHEN WINDS HOWL AROUND SHEEP.

To the Editor of The Homestead:

To have them do well through the long, cold winters we have in the north, we must give sheep pretty good care. If we could know how many sheep lie down and die every winter, not simply away out on the bleak ranges, but right in the yards of those who have the means to give their flocks the best of attention, we would surely be surprised.

Sheep need the best care we can give them in winter. No farm creature we have is more quick to respond to good treatment than is the sheep; none goes down more suddenly or more surely than the sheep when neglected or illy treated.

What is good care in the case of sheep?

First and foremost a dry place to stay. Wet ground is the bane of the sheep business. If you want to kill sheep, force them to stay on damp, muddy ground. The man who cannot give his sheep dry ground at all times of the year, never should try to keep sheep. This should be thought of when first thinking of taking up the sheep business.

Again, some kind of shelter must be provided for sheep whe the storms come on. They do not need elaborate buildings, nor buildings which are closely shut upon. On the contrary, sheep love, and must have, plenty of fresh air. That is not what I mean when I speak of shelter. I do mean that when it storms they should have a shed or other building into which they may go and stay till the snow or rain is over. They will sometimes make little excursions out after a bite of something to eat or to get a drink, but they will not stay out in driving storms unless they are compelled to.

The food given sheep in winter must necessarily be different from that they get in summer. Now everything is dry and stale, but we ought to get as close to the summer ration as we can. Of all the grasses we have, none is better for winter feeding than good, well-cured clover. It is as near an all-round feed as anything we have. But some grain is needed to supplement even clover, though not as much as when clear timothy must be fed. Of the grains oats stands high in my estimation. Sheep like oats; they are rich in the elements sheep need. If to these feeds we add some vegetables, good pure water and salt from time to time we may be pretty sure that our sheep will come through all right and bring us a good lamb at weaning time.

E. L. Vincent.

FREED SELLS DUROC JERSEYS AMES, IOWA, MONDAY, JANUARY 20

40 HIGH QUALITY BRED SOWS 40

A FINE lot of tried sows, daughters of Crimson Wonder 3d, B. & C.'s Col., Manley Orion, Young Rupert and Freed's Chief, and some fine spring gilts by Wonderful Crimson Again and all bred to the grand champion, Freed's Col. Also daughters of Freed's Col.—tried sows, yearlings and gilts bred to Wonderful Crimson Again (son of grand champion, Crimson Wonder Again). A few choice gilts bred to a son of Crimson Chief. Sale under tent. Auctioneers, Colonels Reppert and Kraschel. C. C. Carlin will represent The Homestead. Catalog now ready.

S. P. FREED - AMES, IOWA

PUBLIC SALE OF 50 IMPORTED PERCHERON AND BELGIAN STALLIONS AND MARES

STREATOR, ILLINOIS, TUESDAY, JANUARY 14

A CHOICE lot of young stock, one to four years, with size, quality and breeding. Belgian mares are bred to our champion stallion, Mayor d' Hoorebeke, and the Percheron mares were bred in France to government-approved horses. Sale on farm eight miles east of Streator, Ill., with five lines of railroad; three miles north of Blackstone on C. & A. and four miles southwest of Ransom, on the Santa Fe. Write today for information, mentioning The Homestead.

HOS. AND JAMES WOULF - - - - STREATOR, ILLINOIS
Colonels Reppert, Jackson, Devanney and Isham, auctioneers.

TOO LATE TO CLASSIFY.

THE NORTH-ROBINSON CO.

PERCHERONS - BELGIANS - SHIRES

ARE the best we can buy or breed. We sell them as low as possible to produce them. Write us today that we may tell you about them. Mention The Homestead and address

THE NORTH-ROBINSON CO., GRAND ISLAND, NEB.

Duroc Jersey Sow Sale

MISSOURI VALLEY, IOWA, JAN. 11th. Fifty top sows and gilts, nearly all sired by or bred to our great breeding boar, King The Col., the sire of Col. Gano. This is a well-bred lot, with plenty of size and quality, and bred for early farrow. Sale on farm 2½ miles northeast of Missouri Valley. Address, mentioning The Homestead.
M. S. MOATS & SONS, Missouri Valley, Ia.

POLAND CHINA FALL PIGS

SIRED by Naiman's Expansion and out of choice old sows and large litters are now for sale at $12.50 each, 3 for $35.00. 50 head to pick from. Order at once. Address John L. Naiman, Alexandria, Neb.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE, - Mt. Vernon, Iowa.

Scotch and Scotch-Topped Bulls

FOR SALE AT REASONABLE PRICES.
M. A. McWILLIAMS, Wall Lake, Iowa.

SCHEHL'S CHESTER WHITES

WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rowen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

POLAND CHINA FALL PIGS

SIRED by Naiman's Expansion and out of choice old sows and large litters are now for sale at $12.50 each, 3 for $35.00. 50 head to pick from. Order at once. Address John L. Naiman, Alexandria, Neb.

Heavy Milking Red Polls

A FEW very choice bulls, old enough for service. Also a number of very choice females. Our herd won numerous first places and champions at the fall fairs. Our prices are very attractive. Address
THOS. L. LEONARD, Beaver Crossing, Neb.

One Pure-Bred Jersey Bull

COMING two years old, not registered. First $50.00 gets him. He is a good one. Address
M. B. WEIR, M. D., - Grant, Iowa.

DUROCS Can spare a few choice sows bred for April farrow. Address
L. L. WOODS, - GRINNELL, IOWA.

POLAND CHINA SWINE.

COOPER'S GREAT BRED SOW SALE, HEDRICK, IOWA, FEBRUARY 4TH

AS USUAL, this offering is selected from our herd with the greatest consideration, to present to our visiting friends greater attractions than any preceding effort and we assure all comers one of the very greatest and best offerings of real big bred sows and gilts to go this season in the corn belt. We will include 25 head of 2-year-old and yearling tried sows, several fall yearling gilts and big, stretchy spring gilts weighing over 400 lbs. sale day. These sows are sired by such boars as Big Bone 2d, our present 860-lb. 2-year-old boar, Big Ex, Giant Look, Superior Look, Big Chief 2d, Chief Ideal, Chief I. X. L. 2d and other noted boars the catalog will give. They will be bred to Big Bone 2d, Big Expansion, a son of Dorr's Expansion, Chief Leader and Giant Chief. Send for our catalog. It will be interesting to you, in the big-type blood lines. Arrange to come and see one of the corn belt's best big-type herds of Poland Chinas and one of the most complete swine breeding plants. Mention The Homestead. Address

W. H. COOPER - - - HEDRICK, IOWA

DUROC JERSEY SWINE.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
E. S. MAYES, JR., SPRINGFIELD, KENTUCKY.

HARDING'S DUROC JERSEY BOARS

I HAVE 30 choice boars for sale. I have a yearling by the champion Freed's Col., out of a daughter of the grand champion sow, 1911. Will recommend him as a good breeder. Two good fall boars, and I will sell Crimson Critic: 25 other choice boars. Write me at once.
R. J. HARDING, - - - - - MACEDONIA, IOWA.

J. W. STORM BUYS VOLUNTEER AT $1,500.00

HE is assisted in herd by Royal Superba, grand champion over all breds at two big shows. Will hold BRED SOW SALE JANUARY 25, 1913. 25 sows will be offered bred to Volunteer. For particulars address, mentioning The Homestead, **J. W. STORM, SEVILLE, OHIO**

WATCH THE HICKORY CLUSTER FARM

WILL hold a big public auction of Duroc sows, bred to the Ohio State Fair Champion, COL. PILOT WONDER, in the new sale pavilion on farm, SATURDAY, JANUARY 4, 1913.
SMITH & RODGERS, PROPRIETORS, - - SPRINGFIELD, OHIO.

CHERRY LAWN DUROC JERSEY BRED SOWS

WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individually. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first class. Address
ROBT. PRITCHARD, - - - - CARROLL, NEB.

Cramer's Grand View Durocs

WE have several choice gilts bred for early farrow that are bred right and must make good. Priced right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address **M. C. CRAMER & SON, Monroe, Iowa.**

LARGE DUROC JERSEY BRED GILTS

I HAVE 25 March, April and May gilts by Daisy's Chief out of dams by Col. Advance, Model Advancer Chief's Col. and others, bred to Model Select by Chief Select Jr. Gilts weigh 250 to 300 lbs. Prices right.
J. H. MORF - - - - - FAYETTE, IOWA

SUNNY SIDE STOCK FARM

DUROC JERSEY HOGS and Red Polled Cattle. Herd headed by S. E.'s Defender 117385 and S. E.'s Premier Col. 117563. S. E.'s Premier Col. is for sale. Spring pigs are from dams by Model Chief, Ohio Chief, Proud Advance, Golden Model, etc. We also have a great litter by Crimson Wonder 1 Am, and several by other prominent sires. We breed for size, smoothness and prolificacy. An extra lot of males and females to choose from. Prices reasonable. Mention The Homestead when writing.
S.E.Eakle & Sons, Prophetstown, Whiteside Co., Ill.

20 Duroc Jersey Boars 20

I AM offering 20 choice boars for sale sired by A. F.'s Pilot Wonder. Prices reasonable. Write me at once. Address, mentioning The Homestead,
A. F. HAGER, - Avoca, Iowa.

FOR SALE NOW

SOME strictly choice Durocs of spring farrow, either sex, and in pairs, trios or to suit. Also a choice fall boar and an aged boar. Excellent breeding and priced to sell. Address
THEO. FOSS, STERLING, NEBRASKA

BOARS, BOARS, BOARS

BY CRIMSON WONDER 1 AM, and a good son of Golden Model. Both fall and spring boars at $20 to $35. **U. G. Davidson, Algona, Iowa.**

Snethen's Durocs

FALL GILTS by Belle's Choice Goods and bred to a son of Crimson Wonder Again and Golden Model 51st. All are best of breeding and priced right. Address **J. S. SNETHEN, Davis City, Iowa.**

30 DUROC BRED GILTS

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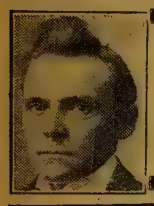

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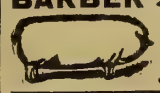

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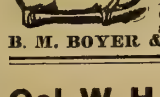

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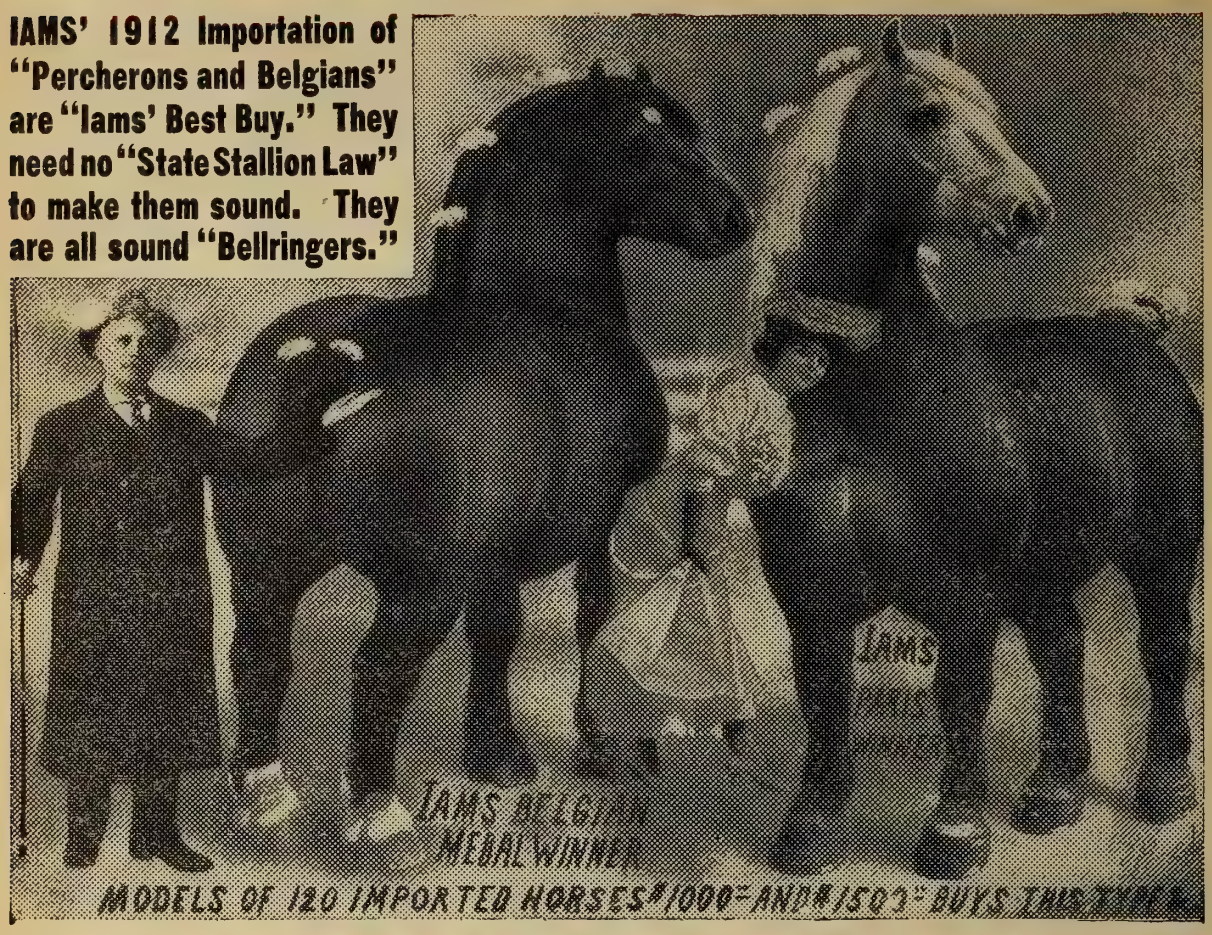

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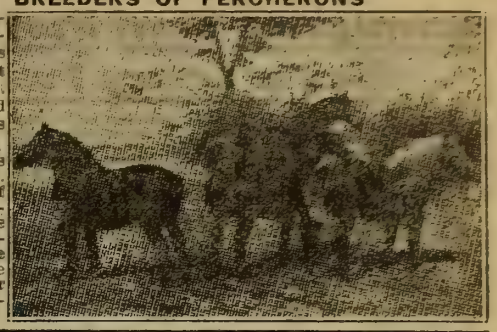
IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



THE NORTH ROBINSON CO.,

BREEDERS AND IMPORTERS

PERCHERON, BELGIAN, SHIRE

STALLIONS AND MARES.

A BIG lot of carefully selected stock, fresh from Europe and from our own farms, may now be seen at our safe barns at Grand Island, Nebraska. Write for fuller particulars or come and see us. Mention The Homestead and address

THE NORTH ROBINSON CO., Grand Island, Nebraska

HOMEWOOD STOCK FARM

Our New Importation of

100 PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

Arrived October 15th and can now be inspected at our stables. If you want to save from $300 to $500 on a stallion or a pair of young mares you can do so by buying at once. **Every animal guaranteed sound and a satisfactory breeder.** Write at once for particulars or call at the farm.

S. METZ & SONS - - - HOMEWOOD, ILLINOIS

Homewood is on the main line of the Illinois Central and Big Four Railroads, 23 miles south of Chicago, with trains every hour. Bell phone, Homewood 53 W.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for circulars. Catalog ready Dec. 1st.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importation of **PERCHERON** stallions now in the barns of

E. J. HEISEL, Fremont, Mahaska Co., Iowa.

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C., B. & Q. R. R.

HOLERY (76516) 62688

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. railroads. Foreign headquarters, Leer, Germany

---

W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars. Large CALENDAR after December 15th.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

B-U-S-T-E-D-!

PRICES

Biggest Price Wrecking Sale in the history of this Company. An excellent opportunity to save 30 to 50 per cent.

Never again will such remarkably low prices exist. Don't delay — Send your order at once or write us. Act now.

ROOFING

SMASHING BARGAINS

FENCING

Corrugated Steel Roofing
1¼c Per Square Foot

Here is the chance of a lifetime to buy the best roofing in the world, at a mere fraction of it's real value. Our enormous buying power enabled us to pick up for spot cash a stock of this brand new, perfect corrugated, "V" crimped and Standing Seam Roofing and Brick Siding, at a tremendous sacrifice — 'way under what it is actually worth. Immediate cash needed made possible this purchase. Just another chapter added to the long list of our famous bargain sales.

Corrugated Steel Roofing
Practically Indestructible

There is nothing else that compares with corrugated steel roofing for real protection. It makes a long, lasting roof Is fire, rain, frost, wind, sun and lightning proof—warmer in winter—cooler in summer; and under ordinary circumstances does not leak, rot or warp, neither does it taint rain water. You can depend upon it that Corrugated Steel is the best material for roofing, siding and ceiling.

At 1¼c per square foot, we furnish our grade **AB-700** Steel Roofing, in sheets 22 x 24 inches x 1¼ inches. This price is delivered on board cars at Chicago.

Galvanized Steel Roofing
2¾c Per Square Foot

Another big Steel Roofing Bargain. Several thousand squares of the very highest grade specially coated, corrugated, galvanized roofing and siding, made of specially prepared steel, of superior quality. Best roofing, and will last indefinitely. We will furnish it in suitable lengths for any purpose. Only a limited quantity on hand, so we urge you to send us your order immediately. Don't wait to write us again—order today, while this stock exists. Price only 2¾c per square foot, and will outlast 4 to 1. Just drop us a line, and tell us the size of your studding and general facts, and we will help you to select proper sheets. If you are not ready to use the material now, we will reserve it for future delivery, if you will give us a small deposit on account. This price of 2¾c per square foot is for our Lot **AB-800** corrugated material, and is delivered on board cars at Chicago. If you prefer some other style, we will furnish it. We have this same grade in "V" crimped, Standing Seam and Brick Siding. Samples on application.

Ready Roofing With Supplies
62c Per 108 Square Feet

We have several thousand squares of a superior quality Ready Roofing, which we are offering in our AJAX BRAND, 1-ply, at a price of 62c per square of 108 square feet, including necessary cement and caps to lay it. This is undoubtedly the most remarkable bargain ever offered in Ready Roofing. This famous brand is put up 3 or 4 pieces to a roll.

The price of 62c per square of 108 square feet is loaded on board cars at Chicago. We will, however, make a freight prepaid price on this same grade of roofing, including nails and necessary cement of 75c per roll of 108 square feet, and at this remarkably low price

We Pay the Freight

in full to any point east of Kansas and Nebraska and North of the Ohio River.

We will also furnish 2-ply, at 90c; 3-ply, at $1.05.

This Ajax Roofing is guaranteed to wear as long, and give as good service as any Rubber Surface roofing on the market.

We have other grades of roofing which we offer 30 per cent lower than others quote. Samples free. Get our free Roofing Book before buying roofing of any kind. This is a chance to lay in your roofing. You must send in your reservations at once—use the coupon shown in this advertisement, or merely write us a letter and tell us where you saw this advertisement. While the stock we have on hand would be considered large for any other concern, remember we have hundreds of thousands of customers who are waiting and watching for these bargains, and who will quickly take advantage of our offer; therefore, we urge you to get in your order at once, even though you are not ready to have the material come forward today. Send us your order and tell us when you want it shipped, and we will ship it according to your requirements. Do not overlook this chance—take full advantage of this offer while it lasts.

Send for Special Roofing
Catalog and Samples

Write at once for our Special Roofing Catalog. Free samples and full instructions for laying roofing. No need to write a letter, simply use the free inquiry coupon shown in this advertisement. We will understand that you simply want full information, samples, prices and specifications, which will be sent you at once, prepaid. Just send your name and address. If you are in a big hurry, send in your order direct from this advertisement. We will fill it for you correctly, and will ship forward without any delay. In any event, write us today.

EXPLANATION

The Chicago House Wrecking Company known to the commercial world as the "Great Price Wreckers" is easily acknowledged **the bargain house of the earth.**

Our Mammoth plant covers 40 acres, and our list of customers are numbered by the hundreds of thousands, and include people from every walk in life. We sell practically everything under the sun at unbeatable prices. We buy our goods at Forced Sales, taking advantage of Sheriffs, Manufacturers' and Auction Sales. In this way we can sell brand new, clean high-grade goods at prices, in many instances even less than the cost of manufacture.

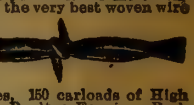
We Supply Everything Needed

Our stock includes everything for the farm, home and personal use, Building Material—Lumber, Roofing, Doors, Millwork, Fencing, Hardware, Plumbing, Heating Apparatus, Furniture, Household Goods, Clothing, Shoes, in fact, every single article needed to clothe a man, woman or child, Sporting Goods, Harness and Vehicles, Jewelry, Sewing Machines, Groceries, etc. You cannot think of a single manufactured article but what we can supply it to you at a saving in price.

OUR GUARANTEE

Our capital stock is $2,000,000. Any bank or Commercial Agency, or any publisher will confirm our responsibility. We have advertised in this paper for many years. Ask its publisher what he thinks of the Chicago House Wrecking Company; get his personal opinion of the values, and our square methods of doing business. We guarantee each and every article that we sell to be exactly as per our representations. Should you buy anything from us that fails to come up to our representations, or does not agree with your expectations, we will take back such unsatisfactory merchandise at our freight expense. We want satisfied patrons.

Brand New Wire Fencing Less Than
1c Per Running Foot



Biggest of all offers of the past. We come to you with the most wonderful proposition ever known, and offer you the very best woven wire fencing at a fraction of it's real value; lower in price than ever before, not withstanding that all other merchants and manufacturers have advanced their prices on fencing. We are determined to simply get all the business in sight, and with that in view, we bought up from manufacturer's sales, 150 carloads of High Grade Woven Wire Hog, Cattle, Field and Poultry Fencing. Barb Wire and Nails, in quantities sufficient to take care of our regular customers and those who will quickly respond to this advertisement.

Barb Wire Less Than 2c Per Rod

Galvanized, two-point Barb-Wire, full weight (not the light kind) put up regular on spools, containing about 100 lbs. to a spool. It is made of No. 12½ wire, with good weight barbs. Price per 100 lbs. during this sale, **only $1.95. Order by Lot No. AB-600.** Several thousand spools of this Barb Wire, Painted, price per 100 lbs. **$1.75. Order by Lot AB-500.** Also have in stock 1000 spools of light weight, new galvanized barb wire, put up 80 rods to the spool, made of No. 14 galvanized wire, No. 15 barbs, barbs 5 inches apart; price per spool of **80 rods $1.45. Lot AB-400.** We also have several other bargains. You never had a chance like this before, and we advise that you send us your order today. Don't wait until the material is sold—we can not hold this quotation open.

Galvanized Hog Fencing
At a Material Reduction in Price

100,000 rods of 26 in. Galvanized Steel Spring Wire, 26 in. high, hog fence, put up in 10, 20, 40 and 60 rod rolls, made with 7 bars, spaced 12 in. apart, with No. 9 top and bottom wires, No. 11 intermediate wires, heavier than the regular fencing offered. Price per rod, during this sale, **only 15c. Order by Lot AB-900.**

Same fencing spaced 6 in. apart, per rod during this sale, **only 21c. Order by Lot AB-1000.** Other heights at proportionately low prices.

LUMBER

Complete houses and barns at an enormous saving. Never before in the history of Building Material has such an opportunity existed. We offer high grade, brand new complete lumber and building material needed for the construction of houses and barns at lower prices than ever before.

20,000,000 Ft. of New Lumber at Our Yards and Warehouses Ready for Quick Delivery

We have upwards of twenty million feet of first-class, brand new lumber for the construction of buildings of every kind. A wonderful stock of the very finest millwork, interior trim, etc.—enough material to construct cities and villiages everywhere. It is our determination that 1913 will be the "Banner" year in the history of our Great Lumber and Millwork department, and the way we will accomplish this, is by quoting prices that will undersell any possible competition. The proof of this is in our catalog and literature.

Write today and tell us what you contemplate improving or building during this Spring — talk to us plainly, and we promise you the advice straight from the shoulder. No other concern in the world is equipped such as we are. Right in our main yard and warehouses, at Chicago, we can load you out complete, at one time, and in one carload, every single article required for the improvement of the building you have in mind. No where else can you go and get such service.

House No. 6A

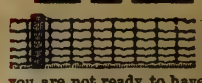
$725.00

Buys the material to build this 2-story modern, 8-room residence. Write for description.

Personal Service To You

You can get the kind of service that will give you absolute satisfaction — satisfaction from the word "go." If you have ideas of your own as to the kind of building that you want, we will give you the benefit of the Greatest Architectural Department in the world. Will furnish you with plans according to your own ideas, and will quote you a price on the material that will make you a wonderful saving. Dollars saved are dollars earned. Write today for our **Book of Plans** and Latest **Catalog of Building Material and Supplies.**

High Grade Poultry Fencing
48 in. High, Per Rod 27c



A complete stock of all heights of Woven Wire Fencing for every purpose. Do not delay your order, but send it in at once, even if you are not ready to have it shipped. We will hold the material ready to deliver when you want it.

Several Carloads of
Galvanized Wire Shorts

This is smooth wire, put up 100 lbs. to a coil, first-class for general use. Comes in sizes from 6 to 15 gauge. **Price for 9 gauge, $1.25 per 100 lbs. Lot AB-1200.** Other sizes in proportion.

Some Big Bargains In Nails

At last we have the bargain of bargains. 10,000 kegs of genuine galvanized wire nails; will outlast all other kinds. Put up in regular kegs. Price per keg of 100 lbs., as follows:—

10 pennyweight, $2.00
8 pennyweight, $2.10
6 pennyweight, $2.15
Shingle Nails $3.00

Also 5,000 kegs of Nails, mixed all kinds in a keg; good assortment, handy to have around your workshop. During this sale only, **per 100 lbs., $1.45. Order by Lot AB-1100.** We have other bargains in nails.

Also, in this same job, we have 5,000 kegs of Fence Staples, galvanized; **per keg, $2.00. Lot AB-1400.**

Crimped wire for reinforcing, cut to any desired length; **per 100 lbs., $2.25. Lot AB-1300.**

We have bargains in every line. Write us today for our Wire and Fence Catalog, but the best thing for you to do is NOT TO DELAY, BUT SEND IN YOUR ORDER, and WE WILL HOLD FOR SHIPPING INSTRUCTIONS.

GET THESE CATALOGS FREE

Roofing Catalog
A book covering this subject complete. Tells you how to select the best kind of roofing for general purposes; also describes our Siding and Ceiling. It's free. Write for it today.

Wire and Fencing Catalog
A complete description contained in this book of all our wonderful bargains in Woven Wire Fencing, Barb Wire, Nails, Bolts, etc.

Book of House and Barn Plans
Contains 100 designs of different kinds of buildings and houses, from $147.50 up. Also shows the latest style barns. It's free.

Building Material Catalog
A 200 page book of bargains in Millwork, Lumber, Paints, Plumbing, Heating Apparatus, Hardware, etc. Just what you need. Write for it today.

SEND IN THIS COUPON

CHICAGO HOUSE WRECKING CO.
35th and Iron Streets, Dept. AB 39 Chicago

I saw your "Busted Price" advertisement in..... and am interested in the following:

.....

Without any obligation or promise to buy, please send me the following catalogs and full information free:

(Put a check mark opposite the books you want)

- ☐ Special Catalog and samples of Metal Roofing.
- ☐ Special Catalog and samples of Ready Roofing.
- ☐ Catalog of Lumber and Building Materials.
- ☐ Book of House and Barn Plans.
- ☐ Catalog of fencing and wire.
- ☐ Catalog of house and Barn Paints.

Name.....

Address.....

County..... State.....

R. R..... P. O. Box.....

CHICAGO HOUSE WRECKING CO. Dept. AB 39 CHICAGO

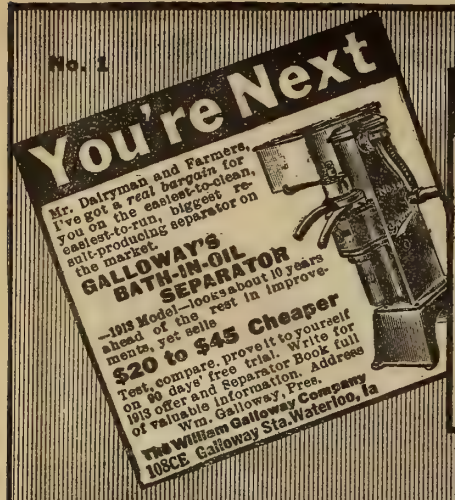
The Iowa Homestead

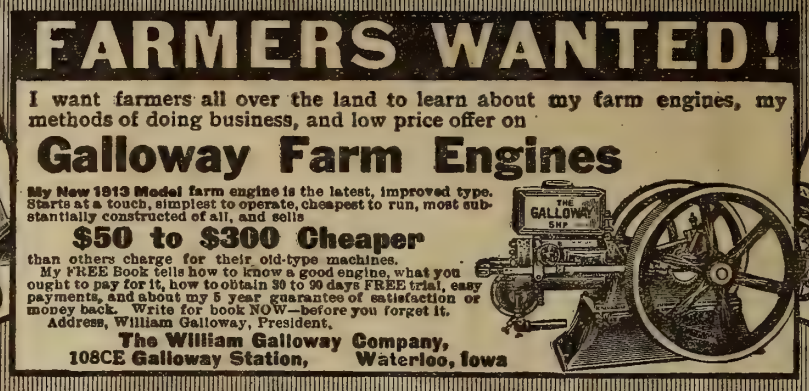
VOL. LVIII. NO. 2 | DES MOINES, IOWA, JANUARY 9, 1913. | WHOLE NO. 2883.

Animal Husbandry
Dept. Univ of Ill

The best Pig ?

No. 1



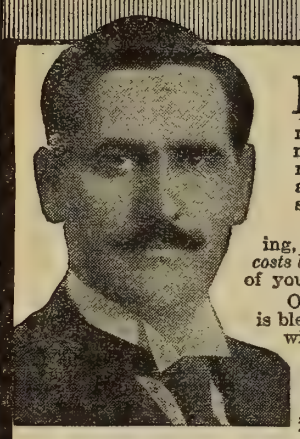


No. 2

No. 3

WHAT IS A BARGAIN?

(Written by Wm. Galloway, the Farmers' Manufacturer)



BARGAIN—"*an advantageous transaction*," says Webster. Just that and nothing more. It doesn't mean a "fall-in-price," doesn't mean a "come-down" from a former charge, doesn't mean something "cheap."

On one hand, in purchasing, you obtain an article that *costs little*, one that gives you *all* of your money's worth.

On the other hand, some one is bled and overcharged to begin with; then when the article becomes *unsalable, a-drug-on-the-market*, or *depreciates in value*, the price is lowered as a bait to catch the gullible that wouldn't bite before.

Real bargains are at a premium.

False bargains can be had in everything, everyday, everywhere.

No one can be too careful these days for there are a lot of articles masquerading as "bargains"—articles, while not *absolutely worthless*, give but poor service at best. If this is true, and you know there is a great deal of foundation for this statement, it would be wise—*no matter what you want to buy*—to deal *direct* with the manufacturer whenever possible.

One reason is this: The makers are *directly* responsible to consumers for the efficiency, dependability, durability of their product. There can be no evasion of responsibility, no shifting the blame—the manufacturer in *dealing direct* MUST stand by his product.

This direct responsibility of the maker results in his putting all the reliability and service possible into his goods. First, in order to protect his own market with consumers and, Second, to prevent losses on goods which would be returned to him on account of faulty construction or the product's not living up to his claims.

Quality Is the First Consideration of the Farmer!

He wants *the best* he can get. If it's a farm engine, a cream separator, a spreader, he wants one that will perform month after month, year after year, the same as the day he bought it. So, very often, he listens to a "quality talk" which covers a *high-price*—though called a "bargain"—and he has cause to regret it later on.

ONE OF THE MANY USES OF A GOOD FARM ENGINE

That word "*Quality*" is pretty much overworked. What does it mean? Perfect materials, best materials, superior construction? All essential, of course, but there is something else to consider. For no one can honestly claim *real* quality unless his product be modern, up-to-date, or have superior features of excellence or advantages not possessed by competing machines.

New Models—Fine Improvements In Machinery Are Also Most Desirable

These things mean better service for least cost of operation—greater strength and durability—long life without outlays for repairs.

It isn't hard to find up-to-date machinery if one only tries. Engines, separators, spreaders and other machinery about the farm have been vastly improved in the last few years and the man who buys an old model because the price has been "lowered" will get a "bargain" (?) that is dearly bought.

Last year I thought to myself that with Mandt's New Gear on my spreader that the height of perfection had been reached. But this year brings to you the greatest improvements, refinements, superiorities ever gathered together under a single trade-marked name.

My new spreader, with greater capacities, more liberal measurements, etc., reaches the very climax of spreader construction. I've improved on other models, too, in making my 1913 Model Farm Engines and Manure Spreaders. So when it comes to *real* quality, you can well be guided by the actual, provable superiorities of these three leaders of mine in determining that which is wisest and best to buy—and then you'll get a bargain.

Where Price Plays The Important Part

Many farm implements are made to sell through the dealer, mail order house, agents, etc., and carry such large profits to allow margins for manufacturer, salesmen, jobbers and dealers.

That's why I claim that it's impossible to obtain a *bargain*—"an advantageous transaction"—unless you do deal with the manufacturer of the article you purchase. For when you deal with the manufacturer *direct*, you're bound to save at least three margins of profits, bad debts and useless expenses in effecting a sale.

I, as a manufacturer, tell you this. You can be sure of quality, in buying from the maker, for reasons I stated before. You can be sure of paying only one profit above cost of production too, and, if the manufacturer's product is an improvement over those of his competitor—like my separator, spreader and engine—then you get

A Combination of All Three, Which Constitutes a Real Bargain

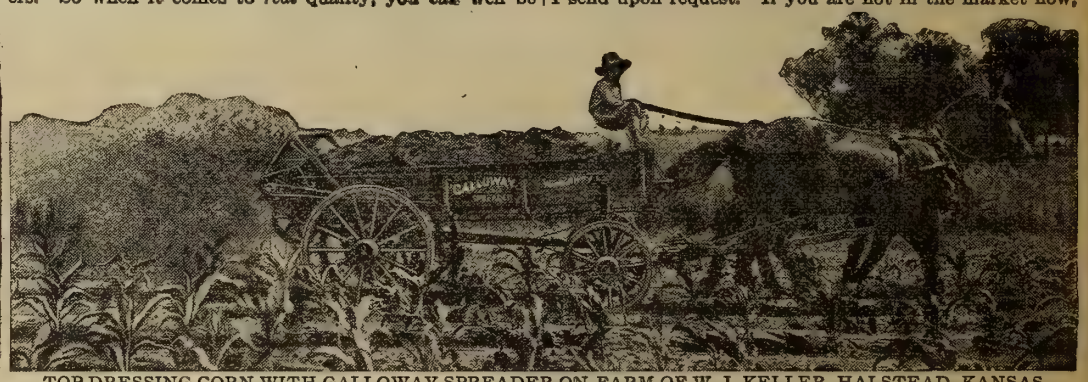
My customers—hundreds in every large neighborhood—will tell you that they are not surprised when I say I can save anybody anywhere from $20 to $45 on a Cream Separator (See Adv. No. 1), or $25 to $50 on a Spreader (See Adv. No. 2), or from $50 to $300 on a Farm Engine (See Adv. No. 3), they know it's the truth. They have saved that much money when dealing with me and you can be sure you can do the same.

The space allowed for these advertisements, does not permit the featuring of the exceptional features of superiority in these three new models of mine, nor explain my special low price, introductory offer, five-year guarantee, 30 to 90-day free trial, and what a *Real Bargain* you get. But you can secure all the information by writing me a post-card, stating in which of these machines you are most likely to be interested.

I Believe That 100% of All Farmers are Honest

and will trust you for anything you want. If you've never dealt with me, you can't understand how easy I make it for everyone to have a *real good, dependable, efficient* and *reliable engine, spreader* or *separator*—and at a price that anyone can well afford to pay.

My Easy-Payment Plan is covered in the Free Books, I send upon request. If you are not in the market now, it will pay you to get these books anyway, so when the time comes, you will know what I can do for you.



TOP DRESSING CORN WITH GALLOWAY SPREADER ON FARM OF W. J. KELLER, HALSTEAD, KANSAS

My New Selling Plan Allows Me To Cut Prices On Everything

Modern business methods in my factory—buying raw materials for cash—ready money for enormous purchases—taking advantage of all cash discounts—low markets—and the most economical system of manufacturing and selling—gives you all the benefits of manufacturer's cost, plus one small profit.

Everything that comes out of my factory is the best.
If you believe me, you'll buy from me.
If you buy from me, you'll believe.

My Books Are Not Mere Catalogs Or Price Lists

I've got the most remarkable "Business Library" for the farmer ever compiled. It consists of books on Farm Power and Engines—Farm Manure and Spreaders—The Farm Dairy and Separators—Farm and Home needs of all kinds—all of which tell how to buy the best for least money.

Tell me which you want most. Or you can have all of them free, postpaid, for the asking. Just state which thing you are likely to buy first so I can write you my proposition and quote prices that will put you on the inside at the start.

WM. GALLOWAY, President
WILLIAM GALLOWAY COMPANY
108CE Galloway Station Waterloo, Iowa

We carry stocks of all our machines at Chicago, Kansas City, Council Bluffs and Minneapolis—insuring prompt shipment.

Either or All of the Helpful, Money-Saving Books Mentioned In Above Article Sent FREE Upon Postal Request—GALLOWAY

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JANUARY 9, 1913.

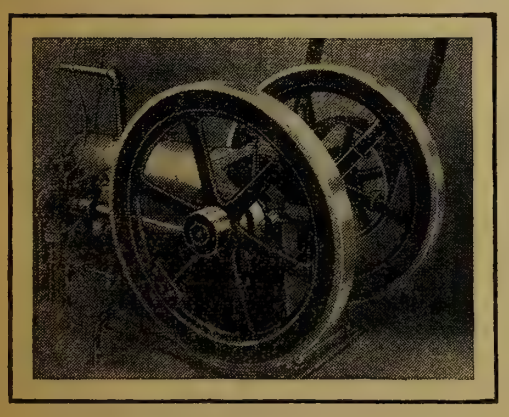
Farm Home and Barnyard Lighting

A Little Gasoline Pumping Engine and a Dynamo Make Electric Current Enough to Light a Farm House, Barn and Barnyard at an Insignificant Cost.

"I DECLARE, mother, Tom Leytham has a better light in his barnyard than we have in our house." Tom Leytham is an up-to-date farmer, not a wealthy one, but just an energetic and enterprising quarter section farmer who

AN ELECTRIC LIGHTED BARNYARD.

appreciates the comfort and convenience of modern appliances on the farm. The occasion for the remark, which was made by a neighbor who was driving past one evening after dark, was an electric light which illuminated the entire barnyard. The gentleman is a pioneer in the matter of lighting in his section of the country. Some-



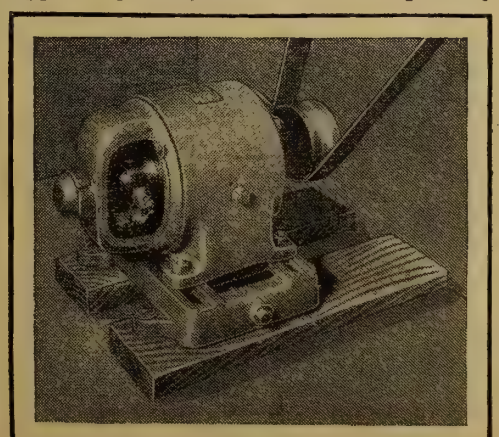
LITTLE ENGINE THAT DOES IT ALL.

thing like a year ago he installed on his farm an electric light plant with a capacity for thirty-two lights. His house, his barn, various outbuildings and the barnyard are equipped with lights. The light plant is installed in a neat little 12x16 building, not an expensive one, but one which serves all the purposes. The equipment consists of a four horsepower gasoline engine, a dynamo and a 16-cell battery. Really, the dynamo and battery are the only articles to be considered, as the engine is one which has been in use for pumping water, sawing wood and various other purposes. At the present time it has added to its work that of running the dynamo whenever necessary, but there is no added cost because at the same time the pump is operated. There is hardly anything in the way of farm machinery that is simpler or more easily run than an electric light

BUSY LITTLE BATTERY THAT RUNS THIRTY-TWO LIGHTS.

plant nor is there any which requires so small an amount of attention either in the way of care or repairs.

The sixteen cells of this battery are arranged on shelves at the end of the little building as shown in one of the accompanying engravings. In the beginning these were filled with a regular battery solution which came as a part of the original equipment. There is no wear or incidental expense about this battery. There is, it is true, some evaporation, but this is easily supplied by the addition of a small quantity



DYNAMO THAT MAKES IT ALL POSSIBLE.

of pure rain water. This water must be provided from a glass or earthenware vessel which is probably the only particular in which any special care must be exercised. The building is built of shiplap and lined with tarred paper. It has no artificial

PUMPS AS THE BATTERIES ARE CHARGED.

heat and during the coldest periods of last winter the battery suffered no ill effects from low temperature.

The dynamo is a tidy little affair not much bigger than a good sized milk pail, but it is thoroughly effective in charging the battery whenever the current runs low. During the summer time, the dynamo does not need to be operated oftener than

LEYTHAM FARM HOME, HARLAN, IOWA.

once in two or three weeks. Three gallons of gasoline is sufficient to run the engine for a full charging of the battery, and, as above stated, the pump is run at the same time. The engine is arranged so that a belt runs to the pump just outside the building on the north, and another to a wood saw on the south; while at the end of the building the shaft projects so that a pulley may be applied for any additional purpose. At times, when it has been

[Concluded on page 11.]

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE FARM ADVISER.

According to the terms of the Lever bill which passed the house of representatives in congress last August each state in the Union is given an appropriation of $10,000 per year for the purpose of giving instruction and demonstrations in agriculture and home economics to persons who are not able to attend the agricultural college. In brief, according to the terms of this bill the federal department of agriculture proposes to take a hand in educating the farmers of the United States. The plan, which has already been undertaken by several states, involves the placing of an expert in a county whose duty it shall be to furnish farmers with expert advice on the various phases of farm problems which confront them.

Should the Lever bill become enacted into law by its passage in the senate the appropriation will annually be increased by the sum of $300,000, until in the year 1923 it will reach the total sum of $3,000,000. This would mean $60,000 for each state in the Union and this appropriation carries with it the condition that the state must raise an equal amount to be used for the same purpose. Seventy-five per cent of this money must be used for actual field demonstrations.

We believe that farmers are in the main favorable to the passage of the Lever bill. Their attitude is not due to the fact that they expect to get something for nothing, but rather that they are more and more coming to realize that we have not yet attained anything like our highest possibilities in the cultivation of our soil. They appreciate the fact that land is rising in value, but it is not proportionately increasing in productiveness. In many instances it is actually going back, in which case it no longer pays dividends on the capitalization involved. It is, therefore, a good business proposition to establish a connecting link between the farmer and educational institutions and this can be done admirably by the employment of the so-called county demonstrator. Wherever this plan has been tried out it has worked well and it would not be surprising if at the end of a five-year period those counties in the corn belt where these demonstrators are at work should show a material increase in production.

We regard the passage of the Lever bill in the United States senate as a very important matter and we hereby suggest to our readers that they establish communication with their senator and suggest to him that he give his support to this bill.

IMMUNITY IN OFFSPRING OF IMMUNE SOWS.

A Missouri s oscriber calls our attention to the fact that all the gilts that he is keeping over are from sows that passed through a siege of cholera last winter. It seems that only two sows out of twelve were saved and the gilts now on hand are from these two sows. He wishes to know if these gilts or their progeny are likely to be immune and would they, he asks, form the basis of a permanently immune herd of hogs.

In answering th's inquiry we have at hand the latest report prepared by Dr. A. D. Melvin, chief of the bureau of animal industry of the department of agriculture. According to Dr. Melvin tests made years ago resulted in showing that pigs two or three months old from immune sows show no more than a normal resistance to the disease. Recent experiments have seemed to indicate that at birth pigs from immunized sows do show an immunity. During the last year eleven litters were tested, eight of these litters being from immunized sows, one being from hyperimmune sows and two from non-immune sows. At the age of three weeks all these pigs were given an injection of disease-producing blood. The result of this injection showed that not a single pig from an immune or hyperimmune sow died from the injections or showed any ill effects therefrom, whereas all of the inoculated pigs from the two non-immune sows died of hog cholera as a result of the injection. Furthermore, it is pointed out to Dr. Melvin that the mothers of the two non-immune litters contracted hog cholera from their pigs and both died of the disease.

The result of these experiments would seem to indicate that young pigs from immune sows are themselves immune against hog cholera at birth and that this immunity lasts for at least a period of three weeks. It has not yet been determined when this passive immunity transmitted by the mother becomes reduced to such a point that the hogs are no longer able to resist infection. This is a matter that must be determined by future experimentations.

Coming back now to this subscriber's inquiry, it might be repeated that earlier experiments seem to indicate that the immunity, which mig t be said to be inherited, passes before the pig is three months old. In which case, of course, it will not be possible to build up a strain of hogs that through inheritance acquire a permanent immunity from disease.

IMPORTANT SESSIONS OF LEGISLATURES.

Unusual interest centers in the sessions of the legislatures of the various grain-belt states this winter. More matters directly and vitally affecting the interests and welfare of the farmers are up for discussion than for many years past.

It is probable that no one of the grain-belt states has as far-reaching a program already mapped as Wisconsin, where the campaign for social betterment is expected to make considerable progress. Efforts to establish a system of credits to aid farmers, a system of land colonizat'on that will make possible the "back to the land" movement for the men with little money, a mother's pension plan, a minimum wage bill and a recall bill for members of state commissions are only a few of the measures that are due for consideration at Madison.

In Iowa, good roads legislation looms large, while the action of the state board of education in ordering the abandonment of the domestic economy course for farm girls at the state college of agriculture and its transfer to the state university will no doubt be thrashed over by the general assembly, with a prospect of its being rescinded on account of formidable opposition from the agricultural interests. The recent conference of the good roads enthusiasts, with the unanimous adoption of resolutions providing for a state road tax levy of one mill, and the plan proposed to bond the roads for $25,000,000 (paying the interest on the bonds and retiring them, within twenty-five years, by the automobile tax and the one-mill state road levy) make it practically certain that no subject will be considered at greater length in Des Moines this winter than this all-important subject of improved highways. The good roads problem will also come in for extensive consideration before the legislatures of Minnesota and Missouri. In the former state the people at the last general election voted to amend the constitution and provided for a one-mill levy fo: permanent state roads, the state being given authority to antic'pate this levy for the ensuing ten years with a bond issue amounting to approximately $16,000,000. In Missouri, a bill is now being prepared to give county courts practically the same authority in building county roads as a city council has in building streets, tho county court on its own motion or on petition of the land owners to order a road paved, subject only to the remonstrances of the majority of the adjacent land owners.

Seven grain-belt states will elect United States senators this winter, the list being as follows: Illinois (where two are to be elected), Michigan, Iowa, Nebraska, South Dakota, Minnesota and Kansas. With this much of a legislative program already in sight it is a foregone conclusion that the sessions in practically every state will be highly important. It behooves farmers, therefore, to follow the sessions of the various state legislatures closely, keeping watch upon the action of their representatives to the end that their interests may be conserved and their welfare promoted.

GIRL WINS CORN PRIZE.

The success of a girl corn grower in Oklahoma should serve as an inspiration to her sisters throughout the entire grain belt. This girl, only seventeen years old, won the boys' corn-growing contest in competition with 500 farm boys of the state.

When it was announced by the Kansas City Weekly Star that a boys' corn-growing contest would be held in Oklahoma there was no idea that any girl would care to enter, but hardly had the plans been announced before girls wrote in, expressing their desire to grow acres in competition for the prize, more than a dozen being entered altogether. The first prize for Oklahoma was given to Esta Beaman, of Lincoln county, whose yield of ninety-five bushels and ten pounds was larger than that secured by any boy in the state and second only to the yield of a Kansas boy, living in Doniphan county, with a yield of 107 bushels and forty pounds.

The feat of the Oklahoma girl is all the more remarkable when it is known that she succeeded despite poor soil and climatic conditions. The story of her obstacles is told by the Weekly Star as follows:

The Oklahoma girl's acre of corn was grown in what is known there as blackjack upland—rough, hilly acres which wash easily and which rapidly decline in fertility unless wisely farmed. Her acre produced in corn nearly twice what Mr. Beaman paid for the acre six years ago. The ground on which the acre is forms a part of a hillside, and a ditch was constructed above the tract to keep the water from rushing down and washing it away. There are stumps and rocks on the contest acre. A pile of boulders just above it had been removed before the crop was put in.

With these difficulties and a season of drouth at a critical period the Oklahoma contestant exceeded the average Oklahoma state yield this year four and one-half times and has beaten the average state yield over a period of four years more than six times. And just to show that there was nothing accidental in her result the feminine corn grower produced nearly two more acres like the contest acre and grew half an acre of tomatoes on the side.

Miss Beaman did all the work herself, asked no favors over the boys, sent in samples of the corn she produced and announced that she had a crib full of the same kind that could be inspected at any time. Furthermore, she explained, two of her neighbors, one on one side of her acre and the other on the other side of her acre, watched her work all season and knew whereof they spoke when they made oaths that she had produced the acre of corn and that they had measured it and weighed the product.

The success of the girls enrolled in the tomato clubs of the South and of Miss Beaman with her acre of Oklahoma corn will go a long way to inspire other farm girls to earn their own money by cultivating their own tract of land and to take still more interest in the actual producing work of the home places. It is highly probable that the coming year will find the federal government carrying on a crusade to interest farm girls in its tomato club plans in the North, fully as extensively as it has in the South for some years past, with beneficial and far-reaching results.

This is the time of the year when the evergreen windbreak is a thing of beauty and when we are doing chores on the leeward side of it we are quite willing to believe that it is a joy forever. A Scotch pine windbreak is not of the best when evergreens are considered, but it is almost as easy as a willow to raise and very few will regret the planting of a couple of rows.

RAPE FOR HOG PASTURE.

A Missouri subscriber, Mr. James Price, writes for information concerning the value of dwarf Essex rape for pasturing purposes for hogs. He calls attention to the fact that he has had no experience with it and he therefore seeks information pertaining to the method of preparing the soil and the sowing of the seed.

Dwarf Essex rape is an excellent pasture for hogs. We say this in spite of the fact that it is possible to find men who have not had very good results from it. Where one example of this kind occurs it would be possible to find dozens where men have been well pleased with the results obtained from pasturing hogs on rape.

Ordinarily rape may be seeded quite early in the spring or any time until the middle of the summer. It is quite hardy and will stand rather severe freezes in the spring. However, we have found that when it is seeded very early growth is quite slow and there is really not much advantage in sowing it until after the period of sowing small grain. It will pay well to prepare a good seed bed because rape seed is small. If the land is plowed in the spring it should be harrowed several times so that it is worked down until it is thoroughly fine and firm. Where it is to be seeded on fall plowing two or three harrowings will usually put the land in good shape.

Rape is generally sown broadcast at the rate of five or six pounds per acre and ordinarily one good harrowing after the sowing will cover the seed sufficiently to give good results. The crop should not be pastured for a period of six or seven weeks after it is seeded because after that time elapses it will make considerable root and top growth and will then stand a great deal of pasturing. If it is eaten back while it is young a given area will not furnish nearly so much food as if it is allowed to make considerable growth before turning in the hogs. Furthermore the older rape is not quite so succulent as the young, tender plants and for that reason it is not so apt to scour the hogs.

We would like to call attention to this one fact, that in some cases hogs for a short time take to rape rather reluctantly. Where this occurs it is only necessary to cut off all other feed for a day or two and force them to it. After they are once obliged to make a start on the crop there will be no trouble because it is both palatable and healthful.

A WINTER OF STUDY.

We commend to farmers' neighborhood clubs, to rural lyceums, to short courses and institutes and, in fact, to all gatherings of country people where country topics are discussed, the study of the subjects which the recent industrial and agricultural congress of Kansas decided upon as the most important before the farmer today. The list may be briefly summarized in this manner:

Co-operation of town and country in the advancement of agriculture.
County farm advisers to increase crop production.
Organization of state-wide farmers' co-operative associations.
System of rural credits to enable farmers to borrow money at low interest to buy land or equipment.
Crop rotation.
Live stock farming and the general introduction of the silo.
Use of the country schools for entertainments, lecture courses and possibly the moving picture show.
Reduction of the number of churches to meet the natural needs of each community.
Adoption of the county unit system in the rural schools by which the schools of a county are controlled by a commission not to exceed seven.
Establishment of more factories to consume the raw products of the farm at the source of production.

Here, certainly, are matters of interest to every farmer, the study and discussion of which will make a full winter of profitable work. On many of the subjects valuable bulletins have been issued by the state and national departments of agriculture, while others are being widely discussed in the magazines and papers of the day. There is not a debating society or school or rural gathering of any kind in the grain belt but might well devote at least one meeting to each of the topics outlined above. Rural progress and development within the next few years will depend

largely upon the extent to which the farmer studies the live problems of the day and plays his part in their solution.

FATAL RESULTS OF VACCINATION.

A subscriber, Mr. John Clark, of Blackhawk county, Iowa, sends the following communication:

I have read lots in the papers about hog cholera and its treatment with serum or vaccination, and it sets me wondering if these articles were ever written by the man who had the real experience or whether they were written by the editor, the veterinarian or the man who makes the serum. Thinking that I have had the real experience which might benefit someone else, I will let you know just what I got out of it.

I had a bunch of fifty-seven nice, healthy pigs that weighed from thirty to sixty pounds. Fifty-five of these were vaccinated, one having got out when I shut them up and the other one having been hurt. Out of the fifty-five that got the dose two were dead the next morning and the rest were so stiff and sick they would not come out to eat. In four days two were dead with lockjaw. Now, after twenty-five days (when I am writing this) twenty-three are dead. After nine days they took the cholera and on the twenty-fourth day I killed one that could not walk. Its bones where the needle had struck it were all rotten when I cut into it. Now all but fifteen look as though they had been in a fire.

The veterinarian who did the vaccinating was very careful, washing the pig with antiseptic before inserting the serum and being careful with his tools, so it must have been a case of poisoning in either the blood or the serum. Vaccinating hogs before they are sick is being strongly advocated, but if it acts this way on well hogs, how must it work on sick ones? I do not think that half the hogs that have died around here have died with the cholera and to vaccinate them only weakens them for lung trouble.

It cost me $40 to have these pigs vaccinated, so you will see I had one-fifth of what the hogs were worth in them for treatment. What I vaccinated for was to keep them from getting the cholera, but got it in worse form, and I know of others that have had just such bad luck as I have had. Let us hear from others as to their experience.

It is difficult to say why these fatal results should come from vaccination in this case. Apparently the serum contained deadly germs of some description. One case of this kind is sufficient to emphasize the importance of placing all serum used for this purpose under some kind of sensible state or national supervision. At the present time some of our experiment station officials are advocating a plan allowing state officials only to administer serums. This conclusion has been reached because of the deadly results that have come from the introduction of the active hog cholera virus into communities. As it is necessary to use the virus as well as the serum, if permanent immunity is to result, it stands to reason that exceeding great care must be taken in the handling of this virus, otherwise real cholera may, in certain cases, be introduced where the disease has not previously existed in the herd treated or in the community.

MERIT OF THE GRAVEL ROAD.

There never has been a time in the past when so much willingness was expressed by taxpayers to bear the cost of constructing improved highways. It would appear in certain quarters that men were suddenly impressed by the wastefulness of the system which works over and over again the same old mud and if legislators acted as quickly as some of these road enthusiasts we would soon have permanent highways throughout the length and breadth of the corn belt.

Just at a time, therefore, when roads costing even as high as $10,000 make considerable appeal to a portion of our taxpayers it might not be amiss to properly consider the merit of the gravel road. We do not need to be told that in certain counties gravel is an unknown quantity, but this does not lessen our enthusiasm for a road that is in many respects superior to the macadam or the brick pavements.

It has been ascertained that where gravel is accessible without long hauls a coating of eight inches can be placed upon the surface at a cost of practically $500 per mile. This means, of course, that it will be spread sufficiently wide to answer traffic purposes, leaving, as it were, ample room on either side of a well-graded pike for travel on the soil surface.

A highway that is first properly graded and then graveled will carry any kind of a load at any season of the year. If a little attention is paid to maintenance it will be a good road for at least a generation, and there is this advantage over the macadam or the paved surface, that it is not so hard on horses and it may be maintained for about one-fifth the cost of the hard roads.

At this juncture in the discussion of the road problem we would like to hear from some of our readers on the merit of the gravel road, because we are convinced that the $10,000-a-mile road will answer experiment purposes only for many years to come. We make this appeal to supervisors, to township trustees or to any person who has had experience with this type of road.

CONTROLLING BUTTER AND EGG PRICES.

As a result of government investigation, with prosecution imminent, the Elgin board of trade, which for seventeen years past has fixed the market prices for butter and eggs, last week abolished this long-time practice. The action of the Elgin organization follows closely upon similar action by the Chicago butter and egg board and is looked upon as a big victory for the government in its nation-wide effort to remove all combines and market manipulations by means of which the consumer is forced to pay a large profit and the producer is obliged to accept whatever price the middleman chooses to pay. As a quick and direct result of last week's action the price of storage eggs has already declined five and one-half cents a dozen and the bottom is expected to drop out of the market before the year is many days old. Market manipulators who paid twenty-two and twenty-three cents for eggs last April and to whom the expense of keeping the eggs in storage the intervening eight months has been about $1.20 a case are now obliged to sell their eggs for sixteen and seventeen cents a dozen, which means a loss of $2.85 a case, with probabilities of the price dropping to ten cents for storage eggs before long. The loss is wholly the middleman's, as the farmer was long ago paid for the eggs and the consumer is now able to obtain his supply minus the exorbitant profit formerly demanded by the middleman. As the market was being manipulated for the sole purpose of adding to the profits of men standing between the consumer and the producer, men who do nothing to add to the productiveness of the country, it would appear as though last week's action by the Elgin and Chicago organizations were a long step forward in the campaign to reduce the price of living without cutting down the producer's well-earned and deserved profits.

IMPORTANCE OF GOOD CLOVER SEED.

A subscriber, C. J. Griffing, gives his views in regard to the importance of using the very best clover seed obtainable, in the following communication:

After several unsuccessful attempts to raise clover from seed which was selected indifferently, I came to learn that in order to be successful with this crop none but the very best seed should be used. I also learned that we cannot very often take the other fellow's word for the worth of his seed. I have paid the best prices and received very poor seed. I have found whenever the clover crop is short that the next season the dealers will put anything that will pass as clover seed upon the market and attach a good price to it. They do not catch me any more, however, as I now order a small quantity from several different firms as samples and test them before ordering what is needed for the fields. If these seeds do not show a germination test of at least 95 per cent I do not consider them good seed. Often seeds will sprout, but get no farther, since they lack stamina and do not have vitality enough to send out roots and establish themselves after reluctantly sprouting. By getting these samples and testing them I have been able to save many dollars which I would otherwise have lost and have succeeded in getting satisfactory stands of clover. The method of sowing must depend upon locality and very much upon soil conditions. When I am to sow on wheat I usually sow the seed during the first part of March. When sown at this time the alternate thawing and freezing along with the spring rains cause the seed to work far enough into the soil to insure proper germinating and rooting. If the seed is good I find eight pounds per acre enough to sow, but if it does not test a germination of 95 per cent, and such a test cannot be procured, I sometimes sow as high as twelve or fifteen pounds per acre. Clover should not be pastured the first fall unless a very good growth has been made and the soil dry and firm enough to prevent the plants being trampled in. When a crop of hay is desired the field should never be pastured in the spring.

As a practical proposition we believe that Mr. Griffing's policy in this case is sound and that the best seed is after all the cheapest. The main difference, of course, between select seed and what might be called "seconds" is due to the fact that the grading process has resulted in cleaning out the small and shrunken seed so that the higher germination test of the well-graded lot will result in a better stand even though a smaller proportion of seed is used.

No horse should stand a single day idle in the stable, and when there is no work for him to do the feed should be cut down and the bowels kept active by feeding bran and if necessary mixing a few ounces of Glauber's salt in the drinking water. Were this rule absolutely followed and exercise enforced at times of idleness there would be far less trouble from colic, deadly azoturia would be rare and lymphangitis (Monday morning disease) practically unknown.

It is not necessary to smash up the furniture when breaking the heifer to stand still while being milked. Training is a better word than breaking, because if the heifer is properly trained there will be nothing to break.

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I have Dan Patch Colts and Young Stallions, For Sale on Long Time Without Interest. Write Me. I Invite You to visit My Farm, with its 5 World Champion Stallions, Dan Patch 1:55, Minor Heir 1:58½, George Gano 2:02, Arion 2:07¾, Dazzle Patch and 250 Brood Mares and Colts.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

The only good rabbit is a dead rabbit, especially where there is an orchard of young apple trees near by. Older trees will also suffer if the snow piles up so that he can work among the branches.

The farmer who has never used a fanning mill should get one as soon as possible so as to get well acquainted with it before the busy season comes. Those who have never cleaned their seed grain would be surprised if they saw all the foul seed they have scattered over their fields.

Treating seed grain for smut is still regarded as book farming by some, but this is a mistake. It is as practical and necessary as the use of the fanning mill and the farmer who expects to ride in his own automobile, which means everyone, must see that his seed grain goes through both operations.

Those who have nothing much to worry about and are not satisfied unless they are worrying about something are taking on their woe-begone look and saying that our ice crop will be a total failure this winter. Here is hoping that the weather man keeps them on the anxious seat for some time.

Now is a good time to overhaul the work harness and put in rivets and stitches where they do the most good. A stitch in time will save nine, is a true saying, and with this work a stitch at this time will save a whole lot of time at a time when time is scarce.

In gathering pointers on the silo question it might be well as a starter to get a squint at the cream checks of those in your neighborhood who are feeding silage to their cows. If they look good to you it would be in order to visit their farms and see how the stock looks and size up the work of feeding and storing. It is unnecessary for those who build silos in the future to "go it blind" unless they choose to do so.

The work of laying the so-called rubber roofing is not finished until all the laps have been cemented after the nails are driven. If this is neglected the heads of the nails will soon rust and a storm will be liable to start some trouble that will put other troubles on the shelf for awhile.

Experience has taught me that nothing lighter than three-ply roofing should be used for the roof of any building, also that the boards under the roofing should be either flooring or shiplap carefully laid.

A farm is usually known by the quality of farming done upon it. I know of a great many good farms that are known as poor farms because the quality of the farming done thereon is poor.

For want of a good culvert, several rods of road is often converted into a mudhole and remains a mudhole until the sun and wind dry it up. It is poor policy to do a good piece of road grading, then spoil it all by neglecting the culverts.

There is not nearly the scramble to sell corn there was a few weeks ago. In some localities, where feeders are numerous, the scramble is quite the other way, and there is a decided upturn in the price of corn. The man who was going to have corn sell for a quarter before spring has another guess coming, and he may have to just about double the amount of his former estimate.

The latest hails from an Illinois corn breeder, who thinks he has increased the yield of his corn by always selecting seed from stalks having two ears. Now, so he claims, he has a corn that invariably grows two ears, and oftentimes three. His further plans are to still increase the yield by selecting hereafter from stalks bearing three ears.

It has been my experience that it is better to raise one good ear of corn on a stalk than two nubbins, and only when all conditions are exactly ideal do the two ears to the stalk amount to more than nubbins. For this reason I very much doubt if the yield of grain to the acre can be increased should it be possible to produce a corn always bearing two ears to the stalk.

The old saying has it that when the days begin to lengthen the cold begins to strengthen. Will those now attending school and well up in geography tell why this is the case? Why should not the weather become warmer as soon as the hours of sunlight become more, and the dead of winter come at or near the shortest day of the year?

I have heard many a person say they could skin a skunk without coming in contact with any of the odor, but I never knew it to happen. I once heard a man brag on having skinned a skunk a short time before, doing it with the odor left out, but he carried the scent with him all right, and it lasted for a long while, too.

The towns appear to be filling up with retired farmers, men who have past the middle age of life and who are able to take life easier. I am not sure whether this is a good thing for the man or not, but it invariably is for his wife. A man may often

Do you get top prices for your cured meats?

If not, there may be something wrong with the salt you have been using. It's the flavor of cured meats that sets the price — and the flavor is largely determined by the salt brine.

A pure, clean, sweet brine, free from slime and stringiness, is made only with a pure, clean, sweet salt. That is Worcester Salt, which is used and endorsed by the large meat packers.

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NEW YORK

keep on farming when age begins to tell on him by hiring much of his work done, but it is now practically impossible to hire help in the house, so the aged wife must keep on drudging if "the old man" keeps on farming.

Protect the bees well from the coming severe weather.

Why put off the buying of farm implements till the rush of spring buying?

Anything but a bunglesome mitten to wear when choring. I stick to cotton gloves as long as the weather will permit at all, then shift to cotton mittens, which are a shade warmer than the gloves of the same material, but the heaviest cotton mittens are not always enough, and when it is necessary to put on heavy mittens it seems to me that the chores last a fourth longer just because of those bunglesome mittens.

The block and tackle wire stretcher beats any other kind I ever tried. It is quick to put on a wire and quick to take off, and the leverage obtained is sufficient to make any wire "sing."

Be careful of every move around the corn shredder. Many men have done this—after they had lost an arm or leg.

The manure spreader and systematic crop rotation form the two strongest links in the chain for the maintenance of soil fertility and heavy crop production.

If you are allowing the sheep to run among burs and thistles, and burrowing in the straw stack this winter, don't expect their wool to return you first-class profits next spring.

Any animal does better to have water always in the yard. Driving cattle to water never did appeal to me, and I am sure it does not appeal to the cattle. Bringing water to the cattle yards through one-inch pipe is cheaper than driving the cattle to the water.

The automobile is no doubt a fine thing and it may bring all joys to the family that the salesman says it will, but it is doubtful if it brings the real joy to the grownups that a new sled brings to the healthy country boy who lives near a big hill.

It is useless to argue with the man who insists it is waste of time to haul manure. If you are unfortunate enough to have a neighbor of this kind it might do to buy his manure and spread it on your own fields, then invite him over to see the results when the crops are in the making. It might at least get him into the habit of seeing what his neighbors are doing and this has been the turning point of many a farmer.

The home-grown apple crop was so short this year in this vicinity that Santa Claus had some trouble in filling his orders, but the old fellow did not worry over a little thing like that. He just brought them anyway, because Christmas without apples would not seem like Christmas at all.

When butter is forty-two cents per pound it does not take a whole lot of cream to pay for a blanket to use for covering the cans while they are being hauled to the creamery.

The harness that is to be used for winter driving should be kept in perfect repair, because even the steady old horse is liable to "feel his oats" some crisp morning and a broken snap or strap might be the cause of an accident.

If you have a broken pane in one of the barn windows try this: Take the window out in order to do a good job of repairing and if nothing better is at hand tack an empty flour sack over the opening then fix the window and forget to put it back. The cloth covering is better, anyway.

A TRIBUTE TO SUGAR CANE.

Sugar cane is ripe for chewing in South Georgia, says the Savannah (Ga.) News. Down here the sugar cane is not the vulgar article of commerce which made the wealth of the Havemeyers, the Spreckelses and their associates. Here it furnishes the juice which, while it inebriates not, is the delight of the poor, the solace of the wealthy and the comforter of the troubled in heart.

It is at this season that the dinner horn has an added charm for the South Georgia boy. Its welcome sound calls him homeward, with his cotton sack slung across his shoulder, his throat dry from the rays of the sun, husky with the dust of the field and the lint of the staple which he has been gathering.

Hungry though he may be he veers from the homeward path when the "cane patch" fence is neared. With eager feet he climbs the barrier and with discerning eye selects from the waiting rows the stalk promising largest yield of treasured sweetness. From it the blades are stripped with careful attention to the irritating fuzz and a loud snap proclaims that the treasure is his.

Again to the rail fence, with careful selection of a panel with a flat rail on top. Then, with heels firmly braced in the cracks below, ignoring protesting stone bruise if any there be, the ready Barlow knife prepares the feast. Carefully the peel is removed and a "round" of juicy pulp is ready. Then while distended jaws and chin are uptilted to prevent waste of good cheer and eyes rolled heavenward in ecstasy, the willing teeth do their duty and Nature pays rich tribute to industry. Nimble Barchus never bore sweeter nectar to thirsty Jove, nor graceful slaves poured more delicious drink for Lucullus's guests.

Just why the chewing of sugar cane is disappearing before modern customs it is hard to say. It affords health and pleasure alike to old and young, where the appetite has been cultivated and the condition of teeth will allow its indulgence. The juice, as obtained by chewing the cane, is a panacea for dyspepsia and kidney troubles and as a tonic and flesh builder for weak children it has no superior.

It is at this time of the year that in the land of the sugar cane the child who has grown sallow, thin and weak during the stress and heat of the summer acquires flesh, rosy cheeks and goatlike spirits, and all trace of "worms," that bane of Cracker children, disappears. The sugar cane does the work. No medicine could accomplish the wonder in so brief a period.

Perhaps we no longer chew cane because we are too busy doing something less useful. A large element of our population, too, has never known its delight. Part of this may be due to the fact that much of the sugar cane put on the market is not the best for chewing. The cane, dark red in color, or red with alternate stripes of yellow, while sweeter is not the most desirable variety for chewing. The best has a green peel, or a peel with alternate strips of green and yellow. This variety is soft and juicy, and once its taste is learned it is a souce of delight.

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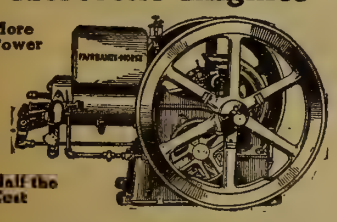

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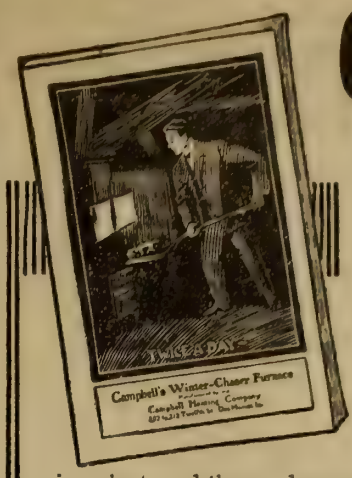

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ARE you thoroughly posted about the heating question? Do you know what "Rotary Air Movement" means? Do you know who invented it, and why it is vitally necessary to the health and comfort of your family, the efficiency of your heating plant, and the good you get out of your coal?

Remember, this heating question is a mighty important one—you do not change your heating plants often, and when you do, it should be with a view to getting a *life time* service. To prove how and why this is possible with our *all steel* Campbell Winter-Chaser, we will send you, *free*

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A Book on Health and Heating

The story of the *guaranteed* heat to 70 degrees, and the longest wearing, strongest furnace made. In this book we explain why you should have the Campbell Winter-Chaser in your home—large or small, new or old. It tells about the need of *moist and clean* air as well as *warm*, and explains why the large reservoir and the ample air chamber with entrance door insure all the necessary moisture and cleanliness which mean health to the family and long life to the furniture.

The Winter-Chaser Is Guaranteed To Give Most Heat With Least Fuel

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With ordinary care the Winter-Chaser will last a lifetime, and there is rarely a penny spent—for ten or twelve years.

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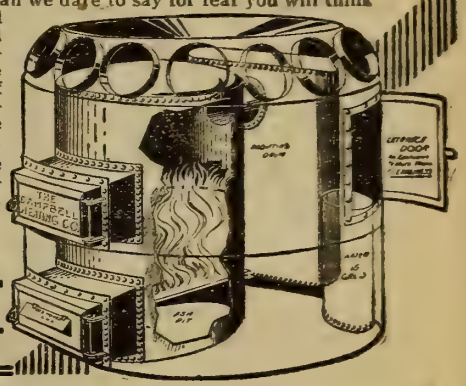

Besides you ought to have the information and heating suggestions it gives. So write *today*. Address

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Has all the new features that a car should have, regardless of cost. You'll be proud of a GLIDE in any company.

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Electric Side Lamps are *sunk in the dash*, eliminating all rattling.

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describing and illustrating the GLIDE "36-42" in detail, in both two and five-passenger styles. Get your pencil out *right now* and drop us a postal before you forget.

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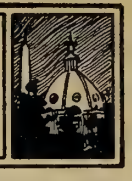
CURRENT EVENTS



THIRTY-EIGHT of the forty union labor leaders and officials who have been on trial at Indianapolis for the past three months, charged with carrying on a campaign of dynamiting in order to intimidate capital and force non-union employers to capitulate, were found guilty and thirty-three of them were sentenced to the federal prison at Leavenworth, Kansas. The sentences range from seven years to one year and a day and the entire bunch of prisoners was taken to Leavenworth, in a special train, immediately. The conviction is an immense blow to that element of union labor which believes that the end justifies any means and that capital must be intimidated, even by the destruction of property and the sacrifice of human lives, into recognizing the labor unions. Most of the unionists convicted are officials of the Iron Workers' International Union, the same organization to which the McNamara brothers (who pleaded guilty to murder as a result of the destruction, by dynamite, of the plant of the Los Angeles Times, with the attendant loss of twenty-one human lives) belonged. Among the prisoners was the president of this labor union. In sentencing them the federal judge before whom they were tried declared that several were guilty of murder. The entire crew of conspirators and lawbreakers, in the name of "justice" to the workingman, carried on a policy of shipping dynamite from one state to another and using it to blow up non-union establishments, loss of life frequently resulting. Never before has union labor suffered so severe a conviction and setback, not only at the hands of a court but before the bar of public opinion as well. That there must be organization with which to fight the battle of the weak and secure rights may be conceded, but there are few who will go so far as to contend that right justifies might, or that industrial freedom may ever be obtained by anarchy.

PRESIDENT-ELECT WILSON has come out directly opposed to President Taft on the question of Philippine independence. Governor Wilson states that he is in favor of a graduated plan of independence, by means of which the Philippines would be given complete freedom at end of eight years. The president-elect thus puts himself fairly and squarely upon the plank of the democratic platform. It will be recalled that the bill introduced in the last session of congress providing for this gradual self-government has met with the serious opposition of President Taft, who, speaking largely from experience secured while governor of the Philippines, declares that the people there have not progressed to that stage where they are capable of ruling themselves nor is this likely to be achieved in the near future. With democratic control of all branches of the government, however, it is extremely probable that the democratic platform and President-elect Wilson's plans will be consummated into law before many months have passed.

A SERIOUS split in the ranks of the Balkan allies seems imminent. Jealousy over the division of the territory which it is demanded that Turkey shall surrender as a result of her decisive defeats in the war is responsible for the break between Bulgaria, Greece, Servia and Montenegro. It is claimed that Bulgaria is secretly trying to get the lion's share of the territory, and while it is admitted that Bulgaria has borne the brunt of the fighting thus far, the allies have all done the work assigned to them effectively and it is believed by the other three states that they should play square with one another as much in peace as in war. To make matters worse, the crafty Turk is delaying the peace negotiations in London and trying to have the peace terms decided upon by the big European powers, instead of by the Balkan states which have been carrying on the war. This would mean that Turkey could keep much of the territory that the allies demand, for the big powers do not want to see the small Balkan states grow until they assume commercial and political power. The whole affair is most lamentable, for the Balkan states have waged a splendid campaign, winning victories most courageously and being about to drive the Mohammedan from Christian Europe. That they should fall out now and lose the good results of their crusade is regrettable in the extreme.

OSCAR UNDERWOOD, chairman of the house ways and means committee and one of the most prominent and talented democrats in congress, was called into conference with President-elect Wilson last week, following similar conferences with Wm. J. Bryan, of Nebraska; Champ Clark, of Missouri; Jerry Sullivan, of Iowa, and other notable democrats from the grain belt. Evidences multiply that President Wilson will align himself with the progressive element of his party and will use every energy to fulfil the progressive planks of the platform upon which he was elected. Representative Underwood is a conservative, but has shown himself liberal and broad minded to the extent of favoring a tariff revision which would reduce the profits of his own manufacturing establishment. His recommendations will carry considerable weight not only with the president-elect, but in the lower house of congress, in which he is a dominant figure. While President-elect Wilson has not yet issued any official statement, it is expected that the special session of congress, for the revision of the tariff, will be called shortly after his inauguration on the fourth of March.

JEFFERSONIAN simplicity marked the inaugural of Governor Sulzer, of New York, long a prominent member of the lower house of Congress. Governor Sulzer dispensed with the usual picturesque parade and social functions, walked to the capitol and after having taken the oath of office appeared upon the steps and talked to the people who were unable to get into the building. When President-elect Wilson was told of the affair he expressed great pleasure and admitted that he wished he himself might be inducted into office with the old-time Jeffersonian simplicity, but he feared that because of the great crowds he could not walk to the capitol at Washington, as had Jefferson when he took the oath of office. It is Governor Wilson's wish that the ceremonies be made as simple and inexpensive as possible. He cannot see any reason why vast sums of money should be spent in inducting a new man into office, no matter how high and dignified.

If the horse's shoulders should show signs of becoming sore, the skin being unbroken, a very good application is sulphate of zinc, one-half an ounce; sugar of lead, one-half an ounce, and water, one quart, and an excellent lotion for hardening the shoulders, even when they have not yet shown any disposition to become sore, is powdered alum, one ounce; sulphuric acid, one dram, and water, one quart.

One great advantage in keeping sheep in a dry season when the pastures are dried up and closely eaten off is that we can turn the sheep into the corn fields as soon as the corn is well silked out, and this without injury to the corn. The sheep eat any grass and weeds among the corn and also the lower leaves on the cornstalks without detriment to the earing of the corn.

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I'll send this wonderful farm tool grinder on free trial without advance payment. Sharpens plow points, saws, discs, sickles, ensilage knives, all farm tools amazingly quick. Saves time, labor, money, tools. Has genuine Dimo-Grit (artificial diamond, sharpening wheels.

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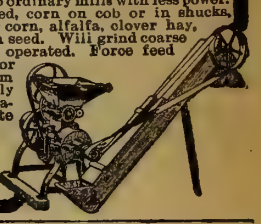
do the work of two ordinary mills with less power. Grinds mixed feed, corn on cob or in shucks, sheaf oats, Kaffir corn, alfalfa, clover hay, grains and cotton seed. Will grind coarse or fine. Easily operated. Force feed never chokes. For gasoline or steam engine. Fully guaranteed. Catalog FREE. Write today.



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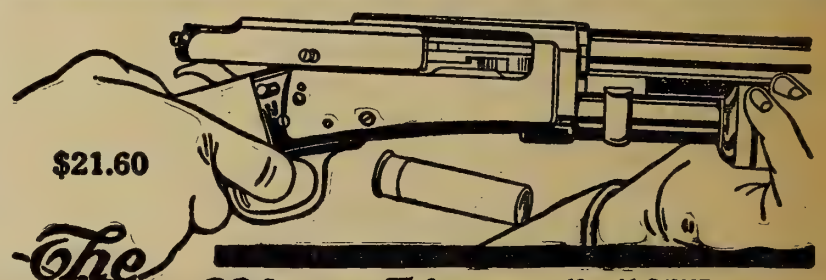

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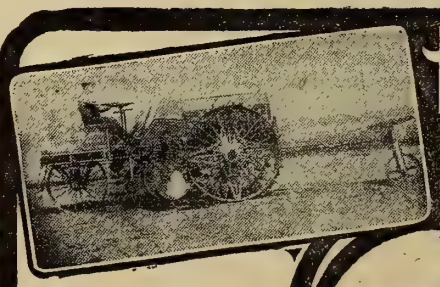

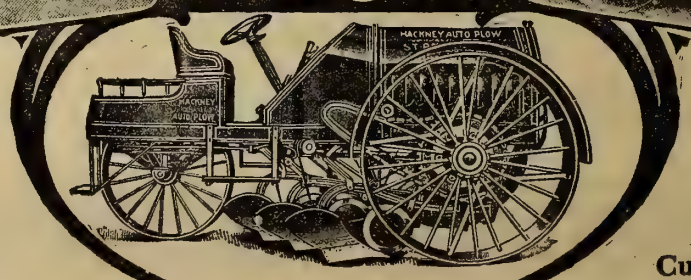

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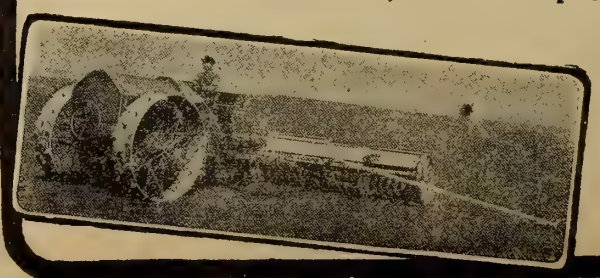

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Before you buy a tractor we want you to investigate the Hackney Auto Plow—the one-man outfit. Our catalog, describing the machine in detail, photographs and testimonial letters from users will be mailed on request.

Hackney Manufacturing Company
608 Prior Avenue. St. Paul, Minn.

Getting Away from Wheat.

By Elliott Flower.

WESTERN Canada is now trying to live down a reputation that many another country would be glad to build up. Sounds absurd, doesn't it? But it's a fact. Western Canada is known as a great wheat country. That's all right. Western Canada was, is, and for a long time will be a great wheat country. That is a good thing for any country to be, provided it doesn't overdo it. But the wise men of Canada—the men interested in its development as a whole—know that a one-crop country, like a one-crop farm, plays out quickly under the management of the average farmer. To keep it productive on the one-crop basis requires a considerable expenditure of labor and money. The man who raises the same thing on the same land year after year must return to it certain elements of fertility that he takes from it with his crops if he expects it to continue producing as generously as it does at first. Otherwise, the land grows annually less fertile and less valuable, and when the ignorant or improvident farmer is finally obliged to give it up or change his methods it takes a long time to nurse it back to its former productiveness.

That is why western Canada is trying to live down—to some extent, at least—its reputation as a great wheat country. A very great majority of the people who go there plan to raise wheat, with possibly some other grain as a side issue. That's all right, if a man is reasonably sensible about it. It's a good wheat country, and there is no reason why he should not get his share of the benefit of that fact. But very, very many of the new arrivals are not sensible in this matter. With the exception of a little garden patch and pasturage for such live stock as they keep for their own needs, they want to give up the whole farm to wheat, and they very often do it, too, in spite of the arguments and warnings of experts and others familiar with the country.

They are not so much to blame for this, either. They have heard of very little but wheat in connection with this country. True, the railroad folder and the colonization companies' pamphlets and the government publications have much to say—much more now than in years past—of cattle and hogs and horses and sheep and poultry and vegetables and fodder crops and the needs of the home market, but the wheat idea has been so dominant for so long a time that it is difficult to eradicate or even modify it. Canada's wheat crop is what looms largest in the statistics; Canada's wheat exportations affect markets everywhere; it is wheat, wheat, wheat that one hears always in connection with western Canada. Small wonder the arriving settler thinks only of wheat, or merely turns from that to some other grain crop.

So western Canada is trying to live down the idea that it is a country for nothing but wheat; to show the arriving settler that there are other things of almost, if not quite, equal importance; to convince him that he must give considerable attention to some of these other things if he would get the best results from his land.

F. T. Fisher, secretary of the Edmonton Board of Trade, is one of the most earnest advocates of mixed farming for the arriving settler, and he and the organization he represents have been earnestly striving to show that real progress and prosperity lie in devoting much of the land to something besides grain. Grass frequently shows a greater profit, the return coming through the live stock for which it affords pasturage. There is a large and growing home market for vegetables of all kinds. The local production often does not meet the local needs, and there is the extraordinary spectacle of a province or a district importing what it could raise itself to better advantage. Moreover, exclusive grain production frequently overtaxes the elevator facilities, sometimes resulting in trouble and loss, while what is raised for home consumption brings quick return and involves less trouble and risk. So, aside from the effect of the one-crop idea upon the land itself, there are most excellent business reasons for favoring mixed farming. The whole question is well summed up in an address prepared for the purpose of showing the work and purpose of the Central Alberta Developing League, of which the following is a summary:

The Central Alberta Development League maintains that the land in this country is too good to devote to the extensive growing of wheat. No country in the world, it claims, ever attained any considerable degree of permanent prosperity as a result of wheat development as a main industry. Wheat growing means big farms, sparse population and comparatively cheap land. It is grass rather than wheat that makes for permanent prosperity, promotes the highest degree of agricultural development and creates sound business conditions in the towns. The pasturage is rich and green throughout a long season, and the productiveness of the land in the way of hay and other fodder crops is great. It follows, therefore, that the wheat crop should be but one detail of the year's operations, and that much of the land and work should be devoted to other things.

In other words, the greatest success for the average man lies in mixed farming, and, as I shall show later, this is as true in Saskatchewan and Manitoba as in Alberta. All along the lines of the Canadian Northern railroad and elsewhere this has been demonstrated wherever it has been tried, and every effort is now made to encourage mixed farming as opposed to exclusive wheat farming. To a considerable extent this has proved effective, much besides wheat being planted and a good deal of attention given to stock raising and dairying, but it is still necessary to keep up a very active campaign for mixed farming to prevent people from going in for wheat raising exclusively where much of the land can be given over to other uses with greater profit to the farmer. And even then, it is complained, far too much attention is given to wheat.

The wise farmer, according to the secretary of the league, may have three kinds of grain instead of one, and two of these may take a course wholly different from that followed by the wheat. The oats and barley, if not marketable as such, can be turned into milk, beef and pork and sent to market in condensed form or on foot. And he concludes his plea for more mixed farming thus:

Let us produce the horses, beef, butter, cheese, hams and bacon, and I care not who grows the wheat.

Nor are he and his organization alone in this view. Almost everywhere I stopped along the line of the Canadian Northern the men of experience talked in this vein, and I heard much to the same effect at various places on the Canadian Pacific. From Saskatoon comes this statement, ending with the wail, please note, that wheat is still far too dominant in the public mind:

Any crop that may be grown anywhere under similar conditions may be as successfully grown here. Lands that will grow the finest wheat will also produce fine crops of any kind. With our soil fertility, our long summer months of steady sunshine, and our average moisture precipitation of about seventeen inches, could it well be otherwise? Root crops thrive especially and show remarkably heavy yields—a fact which stock and dairymen would do well to remember. Potatoes are a safe and exceedingly profitable crop. So far, however, our farmers confine their attention largely to grain crops, notwithstanding the fact that we have no potato bugs or similar scourges and that Saskatoon consumers have never yet paid less than ninety cents a bushel for potatoes.

This is sufficient proof that mixed farming is not for Alberta alone, but there is more. From a Manitoba settler comes this statement:

I had some knowledge of farming in the East, but I found Manitoba methods quite different. I strongly believe in diversified farming and attribute my success to the fact that I have given attention to all branches of farming. I have not developed the grain-growing side to the neglect of the live stock or the live stock to the neglect of the grain.

Incidentally, Manitoba calls attention to the fact that cattle raising is especially profitable, as there is a splendid market close by and at least 80,000 head of cattle are needed each year for home consumption. Manitoba has also suffered from that all-wheat reputation, even as Alberta and Saskatchewan have, and to assist in the effort to live down the provincial government has established a dairy school at Winnipeg, free to all residents of the province, that has done much to encourage dairying along the best and most profitable lines. For that matter, however, western Canada has a number of agricultural colleges in addition to the many demonstration farms. From Saskatchewan comes this voice of experience:

Cattle can be raised with very little care or expense, and I have always disposed of mine at a good profit. I am strongly in favor of mixed farming rather than grain raising only.

And also this:

I and my four boys have all taken homesteads, and we are now, after a little experience, all strong for mixed farming.

Such testimony as this to the advantage of mixed farming for the average settler can be secured almost anywhere in western Canada, and yet, so great and far reaching is its reputation as a wheat country, it requires constant and earnest agitation of the subject to turn the new arrival in the right direction.

The districts are not all alike, of course, and the successful mixed farming in one may differ materially from the successful mixed farming in another, but, so far as I could observe, mixed farming was profitable in near-

(Concluded on page 13.)

The World's Greatest Wagon Factory

Seventy years ago (in 1843) Peter Schuttler made the best farm wagon in the world—with his own hands—in a little shop in Chicago. From the little shop of 1843 the business has grown, until today it is the greatest wagon factory in the world, with a plant that covers over 20 acres, still owned and under the active personal management of Peter Schuttler's grandsons.

The Old Reliable Peter Schuttler Wagons are built as carefully—as honestly—and as substantially today as they were in 1843. They have stood the hard test of racking service on the plains and mountains for 70 years. During all that time they have sold at higher prices than any other wagon—yet the demand for them has steadily increased year after year—because they have always been built better and have given more satisfactory service.

No inferior materials ever enter our factory, and the Peter Schuttler Wagon is made in but "One Grade of the Highest Quality."

Our sole aim is to make the "Old Reliable" Peter Schuttler—the "One Best" wagon that can be built, regardless of expense—one that will stand the test of hard service on the roads—one that can be sold at a fair price and that we can positively guarantee to give absolute satisfaction.

Year after year we have added new improvements and perfected new inventions, and have invariably maintained the high standard of Peter Schuttler Wagons. Our latest and most remarkable invention is the

Peter Schuttler Roller Bearing

The Greatest Improvement of Farm Wagons in 50 Years

Every machine on the farm has been improved—except the farm wagon. Our latest invention will revolutionize farm wagon construction. Every good farm wagon will soon have roller bearings, because they run so much easier, and do at least one-third more work.

The Schuttler Patented Roller Bearing Construction has been perfected and made so practical that it gives absolutely satisfactory results, with but little increase in cost over the ordinary farm wagon.

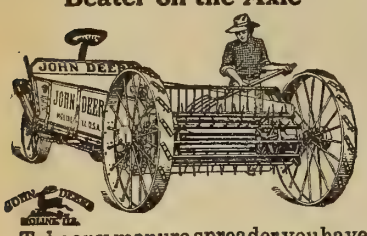
Write for our Free Book which fully explains the Schuttler Patented Roller Bearing Construction, and gives official tests by U. S. Gov. Road Experts.

PETER SCHUTTLER CO.
2508 W. 22nd Street, CHICAGO, ILL.

1913

John Deere Spreader

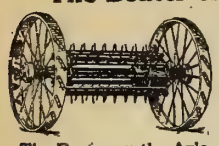
The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

The Beater on the Axle



The Beater on the Axle

The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

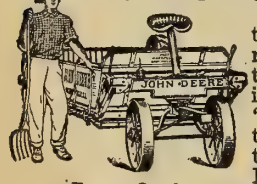
Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

Out of Gear

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.

Only "Hip-High"



Easy to Load

Because the beater is mounted on the rear axle, it is only "hip-high" to the top of the box. Each forkful of manure is put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—*Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y.27*

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Moline, Illinois

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Made from Double strength heavily galvanized steel wire. Over sixty different styles and heights. A Fence for every purpose.

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LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

CONTRACTS IN GENERAL.

A contract always involves an offer made by one party and an acceptance of the offer by the other party. An offer which is not accepted by the party to whom it is made can be withdrawn by the party who made it; he can withdraw the offer at any time before acceptance. If A receives by mail a letter from B containing an offer and immediately mails a letter to B accepting his offer before he is notified that the offer is withdrawn it constitutes a contract, complete and binding on both parties, even if before the receipt of the acceptance by B he has mailed a letter to A withdrawing the offer. A letter containing a definite offer and a letter in answer thereto containing a definite acceptance of such offer constitute a written contract in all cases where such contract is required by law to be in writing.

As a general rule parties are free to contract about whatsoever they please, but the law will not uphold or enforce a contract which is illegal or immoral or against public policy or in cases where the consideration is impossible. Consideration means that which either of the parties does or promises to do, or to refrain from doing. It involves the idea of something valuable in a money sense which either party parts with and the other party accepts, as, for instance, the payment of money, the performance of labor, the delivery of property, and the like. A mere promise of one party to pay money, or to perform labor, or to deliver property, where the other party does nothing, and does not agree to anything, and is not under any moral obligation, is not a contract at all, because there is no mutuality in it, and the law does not recognize it and will not enforce it. It is called in law a "naked promise," because it is without consideration.

If I promise to do something for you, and you have neither done anything for me, nor promised to do anything for me, there is therefore no consideration for me, and my promise is a naked one, and cannot be enforced at law. But if my promise is based upon something you have done, or do, or promise to do for me, there is mutuality in the transaction, and the something which you have done, do, or promise to do, is the consideration moving to me and my promise is the consideration moving to you, and the contract thus made is binding on both of us. As between the contracting parties themselves, even a promissory note could not be collected by law if it were given without consideration. However, if such note be negotiable, that is, made payable to order or bearer, and it passes into the hands of an innocent purchaser for value, before it is due, such purchaser can enforce its payment by law, although it was given without consideration.

As a general rule, all persons are legally capable of making binding contracts. There are some exceptions to this rule, as for instance, persons under age, who are called minors; insane persons; idiots; persons so intoxicated at the time that they are deprived of their reason, and persons who are under duress, that is under restraint by reason of force or violence, or threatened violence. Formerly married women were legally incapable of making binding contracts, but the laws in relation to them have been radically changed, so that in many of the states, especially in the middle West, married women are as free to contract as men are.

LAW QUESTIONS CONSIDERED.

PARTITION FENCE—TIMBER LAND.

An Iowa Subscriber.—I have recently bought a piece of land upon which I intend to build and make my home. The land adjoining is timber land and the owner does not use it for any purpose whatever. I want to put in a hog-tight fence around my land. The owner of the timber land claims that he is not required by law to make or keep up any part of the partition fence because his land is of no use to him. Can I compel him to make half of the partition fence?

Answer.—You cannot. The owner of timber land, which is not used otherwise than for the timber thereon, is not required by law to build, or contribute to the building or keeping up of a partition fence between his land and adjoining land.

CIVIL SERVICE EMPLOYE—HOMESTEAD.

A Civil Service Employe, Brighton, Iowa.—Is there any law whereby an employe in the United States civil service can secure a homestead from the government without residing on the land and giving up his position?

Answer.—There is no such law. Every homesteader must reside on his claim and cultivate it according to law. No exception is made in favor of civil service employes of the government.

ALTERATION OF PROMISSORY NOTE.

A Subscriber, Clear Lake, Iowa.—On September 5, 1912, A gave his promissory note to B, in settlement of a book account dated July 11, 1912. When the note was presented for payment, its date, September 5, 1912, had a line drawn through it, and July 11th was written above it. What is the legal effect of said alteration?

Answer.—The law is that any alteration of a material part of a note will make it void and unenforcible, and if such alteration be fraudulently made the debt it represents cannot be recovered by law, but if such alteration was not fraudulently made the debt it represents can be recovered. In this case it is doubtful whether there be such a material alteration as to defeat a suit on the note, and in any event, if no fraud was intended by such alteration the money represented by the book account could be recovered, even if the note could not be sued upon.

MARRIAGE OF UNCLE AND NIECE—PUNISHMENT.

A Subscriber, Blair, Neb.—(1) What punishment does the law prescribe for a man who marries his niece? (2) In such a case where the parties have lived together as husband and wife for several years can the law separate them?

Answer.—(1) Imprisonment in the penitentiary not exceeding ten years. (2) They are liable to the punishment above mentioned for living together as husband and wife and their marriage can be annulled by law.

TAXATION OF CREDITS.

An Iowa Subscriber.—(1) A sold his farm to B for $7,000. B paid $1,000 cash and got a deed, and entered into a contract to pay the balance of the purchase price in five years, during which time B is to pay taxes on the farm. Is this contract a credit, and as such taxable against A, or can he avoid paying taxes thereon? (2) A, who lives in Iowa, holds a promissory note against a party in another state. Is the note subject to taxation in Iowa?

Answer.—(1) The contract is a credit, and as such taxable against A. (2) The note is subject to taxation in Iowa.

APPOINTMENT OF POSTMASTERS—BONDS.

A Subscriber, Atwater, Minn.—(1) Will the postmasters be changed in the next administration, and if so, to whom should an application for appointment as postmaster be made? (2) What bonds are required to be given by postmasters?

Answer.—(1) Postmasters whose annual compensation are more than $1,000 are appointed and may be removed by the president by and with the advice of the senate, and hold their offices for four years unless sooner removed or suspended according to law. This includes postmasters of the first, second, and third classes. Postmasters of the fourth class are those whose annual compensation amounts to less than $1,000 and are appointed and removed by the postmaster general. A large number of postmasters will be changed by the

Answer These 3 Questions First

before you buy a rod of fence.

KIND OF WIRE? You want a wire that is **springy**, but not **brittle**. We make the wire for Square Deal Fence in our own wire mills right next to our fence factory. We make it hard enough to be springy, but not brittle—then we galvanize it heavily and evenly.

SIZE OF WIRE? Be careful about the comparative size and weight of the stay and strand wires. Compare

SQUARE DEAL FENCE

with any other, strand for strand, stay for stay, and see why fencing we made 22 years ago is still giving good service.

HOW IS IT WOVEN? See the Square Deal Lock—"the knot with a grip that will not slip." See the wavy strand wires that spring Square Deal fencing back into place after sudden heavy strains and keep it tight and trim the whole year round. See the one-piece stay wires that prevent sagging, bagging and buckling to let the pigs under—requires fewer posts, saving money, time and labor.

Get Square Deal Prices Before You Buy

We'll send you our latest fence catalog, price list, local dealer's name and a high grade, four-section, 2 ft. folding rule, all FREE. A postal will do.

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PEERLESS GATES

The kind you can bank on, no worry about animals getting through the Peerless. Just the kind for yards and lanes where gates get hard usage. ¶ The big high carbon steel frames and the all No. 9 wire filling stand the racket. The extra heavy

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gives them a better appearance and longer life than the ordinary steel gate. They are Rust Proof. Ask about the

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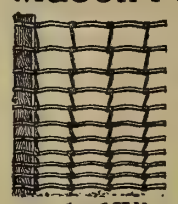

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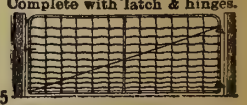

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Get our new fence book before you buy fence for Horses, Cattle, Sheep, Hogs, Poultry, Etc.
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We save you *big money*—give you highest quality. Mail postal *now* for Big Fence Bargain Book
Dept. 34 THE BROWN FENCE & WIRE CO., CLEVELAND, OHIO

FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c. a rod for 47 inch high stock fence; 28 1-2c a rod for a 50-inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, $1.55. Catalog free.

INTERLOCKING FENCE CO.
BOX 17 MARION, ILLINOIS.

next administration. An application for postmaster in the first, second or third class should be made to the president. An application for fourth class should be made to the postmaster-general. (3) Every postmaster must give a bond in such amount as the postmaster-general shall deem sufficient.

ASSISTANT STATE VETERINARIAN.

A Subscriber, Floris, Iowa.—What fees does an assistant state veterinarian charge for testing cattle for tuberculosis in Iowa, and are such fees fixed by law?

Answer.—An assistant state veterinary surgeon is allowed $5 per day and actual expenses when engaged in the discharge of his duties, which compensation and expenses are paid from the state treasury, upon itemized, verified accounts, audited and approved by the executive council.

LEASE OF LAND MORE OR LESS.

A Subscriber, Pella, Iowa.—B rented a farm from A, not by the acre, but the entire farm. A had the contract made representing the farm to contain 106 acres more or less. A pays taxes on the land as less than ninety-eight acres. (1) Is the contract legal? (2) Does the law require a lease to land to be made by a notary public or a lawyer and a seal attached in order to be valid?

Answer.—(1) The payment of taxes by A has nothing to do with the matter. The real question is, how many acres does the farm actually contain? Where a deed or lease calls for so many acres more or less, the words "more or less" are qualifying, and if the area falls short of or exceeds the number of acres mentioned, but the actual difference is not of much importance, such words will cover it, and no complaint can be sustained. In this case we think the contract is legal. (2) The law does not require a lease to be made by a notary public or a lawyer, nor to have a seal attached.

STALLION SERVICE—LIEN ON COLT.

Mr. E. C. Ward, Brandon, Iowa.—A sold a mare in foal, to B, but the fact of the mare being in foal was doubtful at the time of sale. Nothing was said about payment for the services of the stallion to which the mare has been bred. In due season the colt was foaled. (1) Who is liable for the services of the stallion?(2) Does the owner of the stallion have a lien on either mare or colt for said services?

Answer.—(1) The man who bred the mare is liable for the services of the stallion. (2) If the owner of the stallion complied with the law in relation to keeping stallions for public service he has a prior lien on the colt for the service fee, and such lien remains in force for six months after the birth of the colt. The stallion owner may enforce such lien by placing in the hands of a constable an affidavit describing the stallion and the mare, and the time and terms of service, whereupon the constable will take the colt, and after ten days' notice sell it to pay the service fee.

DESTRUCTION OF QUACK GRASS.

Mr. Paul D. Goff, Ruthven, Iowa.—A and B live on adjoining farms. B's farm is being taken by quack grass and A, whose farm is on the east and north, finds it impossible to prevent the quack grass from spreading over his land. Can A compel B to rid his farm from quack grass, or recover damages on account of its spreading over his land?

Answer.—A can make complaint to the township trustees that his land has been, or is likely to be, infested by quack grass from the land of B, and thereupon the law requires the trustees to make investigation of said complaint, and if the same is well founded to make an order fixing the time within which such quack grass shall be prevented from maturing seed, and an order that within one year the same shall be destroyed permanently, and if B neglects or refuses to do so the trustees shall cause the same to be done at B's expense, to be recovered from him by a special tax to be certified by the township clerk.

ILLEGAL COUNTY DEBT—TAXATION.

An Iowa Subscriber.—(1) The board of county supervisors have contracted an illegal debt. Some payments thereon have been made by the board and auditor in the shape of warrants, no bonds having been voted or sold. What steps, if any, can be taken by a citizen or citizens of the county to have the debt annulled? (2) A has incurred the enmity of B and C, who are members of the board of trustees of his township. Can they, in connection with the other member of the board, while acting as reviewers, have A's taxes excessively raised, and what remedy would A have in such a case? (3) Has the board of supervisors any authority over the township trustees in regard to tax valuations?

Answer.—(1) Citizens and taxpayers of the county can bring a suit in equity in the district court to have the contract annulled and set aside, and the debt declared void. (2) Such board of review have no lawful right to excessively raise A's taxes, and if they do so, he can take an appeal to the district court within twenty days after the adjournment of the board of review. (3) It has not.

ENFORCING TERMS OF A WILL.

A Subscriber, Springville, Iowa.—A man died owning land on both sides of a road. He had built his barn across the road from the homestead on an eighty-acre tract where a spring was. He willed this eighty-acre tract to A, except two acres where the barn and spring were. He willed to B said two acres and the homestead, providing that B was to pay A $100, which B did. The will further provided that if B should sell the homestead he is to let A have an acre lot, A to pay him therefor $50 and allow B to take off the barn. B has sold the homestead for $200 per acre and wants A to pay him $200 for the barn lot, or he will build a house on it. Can A compel B to convey him the barn lot for $50, according to the terms of the will?

Answer.—He can by proceedings in the district court brought for that purpose.

ROAD CULVERT—FARM RAILROAD CROSSING.

Mr. A. H. Mitchell, Weatherby, Mo.—My farm lies partly on one side of the road and partly on the other. The house is on the south side and the barn on the north side. There has been a small box culvert on the north side of the road, but it is filled up, so as to stop the drainage water, forcing it across the road. I told the road overseer that I would furnish rock and sand if the township would furnish cement to put in a concrete culvert, and he agreed to it, and brought it before the board, but the board flatly refused, saying it would not fix any private crossing. (1) Must I fix this crossing at my own expense? (2) The railroad which has been operated for twenty-five years, runs through my farm for 120 rods, and has a grade in one place twenty feet high with a large tube through it to carry off drainage water, and the company does not furnish me any crossing at all, and I have to change my stock from one field to another by chasing them through the public road. Can I compel the railroad company to furnish me a private crossing under the track or above it?

Answer.—(1) You will have to fix the crossing at your own expense. (2) The law of Missouri requires the railroad company to furnish you with a farm crossing affording a reasonable means of going across the railroad from one part of your farm to the other. This law contemplates a grade crossing, and generally an underground or overhead crossing would not be ordered by the court, but if the situation is such that no grade crossing would be adequate a court would, in proceedings for a mandatory injunction, order an underground or overhead crossing to be made.

TENANT HOLDING OVER—DOUBLE RENT.

An Iowa Subscriber.—A owns a farm which has been leased to B. This lease is not good for another year, but B has done some fall plowing and put in some rye corn. A wants B to go off the place. Can B hold it for another year?

Answer.—He cannot hold the place for another year without A's consent. If B holds the place after his term expires and after A gives him notice to quit, he will be liable to pay A double the rental value during the time he holds over.

FARM HOME AND BARNYARD LIGHTING.

(Continued from page 3.).

necessary to use a large proportion of the lights for long periods, it has been found necessary to charge the batteries two times a week, but, in any event, this involves no extra cost.

The lights are strong and even, with no wavering action. That which is placed in the barnyard is an extra strong candlepower light and sheds its rays to practically every part of the barnyard, so that if it is necessary to hitch or unhitch a team, the work may be done just as conveniently as in daylight. One strong light in the cow barn more than answers every purpose of a number of lanterns. The safety of this light is a strong feature. There is not the slightest chance of danger from fire as is the case when lanterns are used about the barns and stables. In the house there is the added convenience over kerosene lamps that there is no greasy oil to handle, no lamps to fill, no wicks to provide, nor chimneys to break. During the entire year in which this plant has been operated, there has been no need to supply even a single new lamp.

This little lighting plant was procured at a cost of $300, exclusive of the engine. The wiring and lamps cost approximately $200 more. From the standpoint of economy it will readily be seen that the interest on this investment and cost of operation is less than the cost of the plainest kerosene lamp illumination, while the superior light and its convenience cannot otherwise be equaled.

Save the Price of a Horse

By Buying the

Moline Low Down Spreader

How do You figure the Cost of your farm machinery—the price of the machine alone, or what it takes to run it?

This splendid Low Down Spreader is not only easy to load, being but 42 inches in height at the rear wheels, but it is also

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We have seen the large size Moline Spreader in use in a field with other makes, under exactly the same conditions, when it required one horse less to operate the Moline Spreader than was necessary to operate the others.

In figuring the cost, then, there is a saving in buying the **Moline Spreader** equal to the price of one horse.

Correct Mechanical Construction—Steel Frame—Steel Wheels—Steel Beater—Chain Drive—Roller Bearings.

The Moline is easy on the Man and Easy on the Team.

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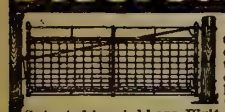

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High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 2 years' trial at our special direct-to-you factory price of **$4.95.**

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Is triple-geared so both grinding rings revolve in opposition to each other—giving it a Double Cut and doubling its capacity.

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Prevents disease, destroys lice. It's indestructible—will last a life time. It's scientifically constructed to **Save All the Pigs.** Made of all galvanized, rustproof, extra heavy metal with a patented door. Can't be broken or get out of order. You can roll Clarke's Hog House anywhere and open the top of it to let the sunshine in. **Write for prices.**

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E.N.P. Bowsher Co., South Bend, Ind.

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M. F. BATES

I have given the farmers of this country and Canada their first and only tractor that is really practical for farms of 160, 200 and 300 acres.

I did this 3 years ago, after 17 years' experience designing gas engines.

Although this is my 4th season as a Tractor maker, it is the first season I have ever done any advertising to speak of.

But now, after 3 years of remarkable success and with a modern factory to handle a nation-wide demand, I publicly announce the Bates All-Steel Tractor.

My Specialty—Building Tractors for Medium-Sized Farms

Other Tractor manufacturers have used their money and brains to build big, heavy tractors for large farms. That alone has kept them busy. None have ever made a serious attempt to build a tractor light enough, simple enough and inexpensive enough for men on farms of 160, 200, 240, 320 and 640 acres.

I have done just the opposite. I have specialized on the smaller tractor, leaving the large ones alone.

With the result that I have perfected a tractor that pulls as much as 16 big horses, yet weighs 6,000 to 8,000 pounds less than any other of the same power. I did this by using high-grade steel, instead of common iron.

Think what a saving of power and fuel to have 3 to 4 tons less dead weight to pull!

And this tractor will work any place that a horse can. With its light weight and wide drivers, it does not pack the soil. You can harrow with it, do your discing, seeding and rolling. Plowing is only one of its many useful features.

You Can Get Into The Fence Corners

With my direct-connected plowing outfit, you can turn square corners. Can get right up into the corners of your field. You don't have to use horses to finish up the job.

Nor do you need a plowman. The driver handles the plows without getting off. For the plow platform is parallel with and connected with the engine platform. There's no heavy lifting. All operating levers are within a radius of 12 inches.

No matter how rough or smooth or what kind of soil, or what condition the soil is in, you can plow it with a Bates tractor if it can be plowed at all!

Eight to twelve acres is the usual day's plowing with the Bates. And no man ever saw cleaner, better work.

The plow carriage can be instantly detached and the tractor can be put to work at any of the hundred and one jobs that a powerful engine does on the farm.

As to the Price

Even though I use first quality steel at 11c per lb. as against others who use common iron at 3c per lb., my price is very reasonable. In fact, it is low.

That's because I make tractors only, and only tractors of one size. This gives me utmost economy in factory operation.

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I regard popular price as very important in the selling of any product. Hence, my decision to maintain a low price.

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It is neither fair to you nor to me to judge a machine of such importance entirely by these brief facts. I want you to see some large pictures of it and read what men now using the Bates say about it. Then, when you have seen what a wonderful tractor it is, I will tell you the price, and that, I promise you, will prove mighty attractive.

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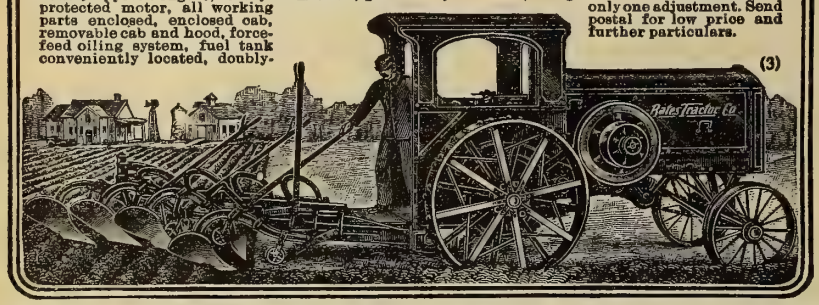
Weight 8,000 pounds—25 and 30 H. P. on the belt (equal to 16 big horses at the draw bar), doubly-opposed engine, doubly-protected motor, all working parts enclosed, enclosed cab, removable cab and hood, force-feed oiling system, fuel tank conveniently located, doubly-efficient cooling arrangement, gear driven from both sides; sliding, positive clutch transmission, gears always in mesh, stripping of gears impossible, external contracting friction clutch, no slipping, controlling levers in radius of 12 inches, only one adjustment. Send postal for low price and further particulars.



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Send for the book that tells *all the facts* about *every* part of the Spreader that stands on its record of twelve years' use; that is used and endorsed by over 100,000 progressive farmers; a spreader that has more *good advantages, simpler design* and *better construction than any other.*

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Now Made "Low Down" For Easy Loading

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It will be a GREAT WESTERN, because this is the machine for longest service. In the end it costs much less than the shoddy spreader whose first cost is lower, because the GREAT WESTERN is built to stand the strain of all conditions—the test of every job—and to give years of steady, continuous service.

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for the FREE BOOK, describing the GREAT WESTERN. Don't buy a fad. Don't buy an uncertainty. Don't experiment. Buy the *proved* spreader—now low-down so it's easy to load. And write today for the GREAT WESTERN Spreader Book. It's FREE.

Special Features of Real Merit

Wheels *under* the load. Short wheel base and roller bearings making lightest draft. Simplest possible drive. Fewest parts. No enclosed gears or transmissions. Nothing complicated. Endless roller apron running on *three* sets of large rollers. Indestructible front. Double bolster. 16-inch malleable fifth wheel.

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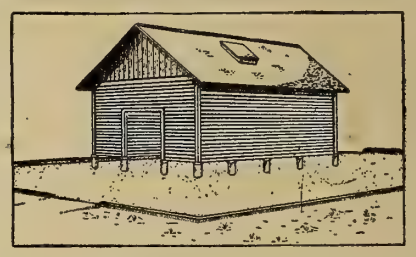
HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A RAT-PROOF CORN CRIB.

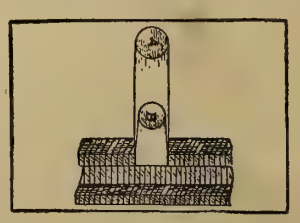
The combination corn crib and feeding floor herewith illustrated is an idea well worth studying if the reader raises any great number of hogs. The idea first was to build a corn crib that was as near rat and mice proof as possible, and while it is impossible for rats or mice to enter this crib it must be remembered that one often allows them to get into a crib through carelessness. For instance, a board is left leaning against the crib, the mice may be shoveled in with the corn, etc., but mice and rats must have water, and the few that enter cribs in this manner will soon leave. This crib is thirty-six feet wide, with a twelve-foot driveway, and is forty-eight feet long. The walls are twenty feet to the eaves, and the crib is filled with a corn elevator. The crib has a cubic capacity of about 30,000 feet, and will easily store 7,000 bushels of corn. The sills are 8x8 timbers. The studs are



2x8, and the center over the drive has 2x10 joists. The roof is covered with composition roofing, and a trap door in the roof is provided for the elevator. The feeding floor extends twelve feet in each direction beyond the crib, also under the entire crib. Fourteen-inch glazed tile are used for foundation posts, and these have bolts extending down into the sub-foundation, and up through the sills, and the tile are filled with concrete. This makes an everlasting foundation and one that rats and mice cannot climb. The feed floor is placed over gravel and stone, which keeps the rodents from burrowing under the crib. The crib provides shade for a number of hogs in hot weather, and as the floor is easily cleaned it provides an ideal feeding place for hogs. The crib being directly over the floor, much labor and time is saved caring for the hogs. Rods are run through the crib in the center every twelve feet. If desired, bins could be arranged over the drive for small grain, but in this crib the space over the drive, also the main floor below, was floored with 2x6 timbers, with one-quarter-inch spaces between each timber to drain out any moisture, and to provide extra ventilation for the corn. The hogs eat any grain that falls through the cracks. The crib was well built and painted with three coats of good paint.

Remedy for Excessive Draft.

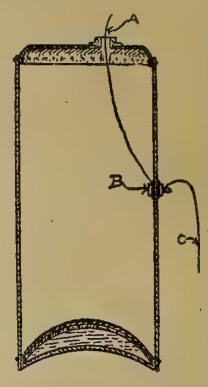
A furnace that was installed last winter for a Missouri farmer had such a strong draft that it was hardly possible to supply same with coal. After trying several devices with no benefit the idea herewith illustrated was used and the furnace gave no further trouble. The furnace pipe was ten inches in diameter as shown at A. This pipe was removed and



a cone-shaped pipe B inserted inside and the pipe was replaced. The pipe B was ten inches at the outer end, in the brick flue, and eight inches in diameter at the opposite end, and two feet long. The space between the pipes created an eddy, thus stopping the draft.

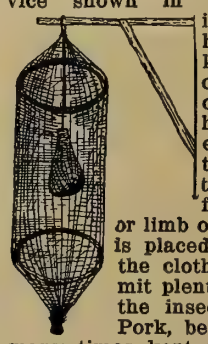
How to Mend a Boiler.

A range boiler which had developed a large leak in one side was easily mended as shown in the illustration. The hole being rather large, solder proved of no use, for as soon as the boiler became thoroughly heated it sprung loose. The hole was mended as shown by first drilling the hole out with a one-quarter-inch drill, then passing a small three-sixteenth-inch stove bolt through as illustrated. To do this a cord was fastened to the head of the bolt. The cold water pipe on top was unscrewed and the bolt was lowered to about where the hole was supposed to be. The first cord A was also tied around a lead washer, and behind this lead washer an iron one was placed. To the end of the bolt was tied a second string as at C, this being also lowered inside the boiler. The next thing was to make a hook of baling wire and fish out the string C. This being easily done, a lead washer was placed over the bolt which had been drawn easily through the hole with the string C and over the lead washer was placed another of iron. Then the tap was screwed in place, making not only a neat job, but one that could not be broken. This idea could be used in various boilers, tanks, etc., that find a place in and around the home.



Keeping Meat.

In many parts of Texas fresh meat is kept for quite awhile with the device shown in the accompanying illustration. Two hoops from a small keg or barrel are covered with cheese cloth, and the meat hung inside fastened to a stout cord that passes through the top, and is made fast to some timber or limb of a tree. The meat is placed in the shade and the cloth, while it will admit plenty of air, keeps out the insects, dust and dirt. Pork, beef, venison, etc., is many times kept for days in one of these meat preservers.



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GETTING AWAY FROM WHEAT.

(Continued from page 9.)

ly all of them and much safer than the single crop plan. True, one may gain the impression in one district that mixed farming would not be profitable in some other, but when he moves on to the other he discovers that the farmers who have tried it there have been as successful as elsewhere. Winnipeg, Saskatoon, Prince Alberta and Edmonton—not to mention various places in British Columbia—all had much to say, often with urgent emphasis, upon this subject, so it seems safe to assent that the statements herein made apply to pretty much all of western Canada.

VALUE OF DOMESTIC ANIMALS.

Iowa, Missouri, Illinois, Kansas and Nebraska in the order named ranked highest among the states in 1909 in gross value of domestic animals sold, each reporting more than $100,000,000. Texas reported the sale of the largest number of cattle, excluding calves, Iowa ranking second, but New York ranked first in number of calves sold, with Wisconsin second.

While Iowa reported the sale of more horses than any other state, Missouri ranked first in the combined number of horses, mules and asses and burros sold, the number of mules sold by Missouri farmers being nearly twice as great as the number sold by the farmers of any other state. Iowa ranked first with respect to number of swine sold, and Missouri second. Montana and Ohio ranked first and second respectively in sales of sheep.

The census bulletin issued recently containing these facts puts the total of all domestic animals sold in the entire country during 1909 at $1,562,937,000 and that of animals slaughtered on the farm at $270,239,000, making a total of $1,833,175,000. To the total value of animals sold, cattle, including calves, contributed $710,015,000, or 45.4 per cent; horses, mules, asses and burros together $306,457,000, or 19.6 per cent; swine, $463,011,000, or 29.6 per cent, and sheep and goats, $83,433,000, or 5.3 per cent.

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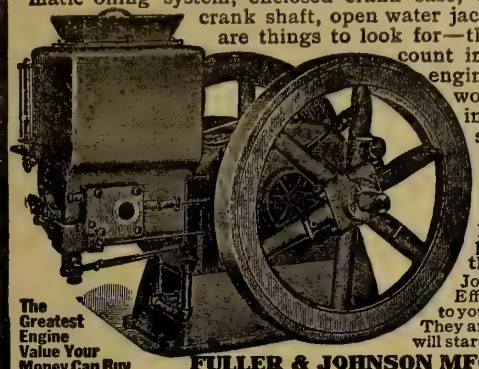
Farm Power at Lowest Cost Per Year

The engine best suited to do your work is the engine you can depend upon to go with fewest repairs, to use less gasoline, and to last the longest in actual hard, every-day service.

Fuller & Johnson Gasoline Engines are built in sizes from 1 to 20 h. p. Stationary and Portable, for general work, pumping and other special requirements. Their great durability, economy in fuel, high quality and constant performance give you the utmost in farm power at lowest cost per year.

Fuller & Johnson Double-Efficiency Engines

are mechanical masterpieces, built by engine specialists. We guarantee them to do the work for which they are designed with supreme satisfaction, ease and economy. They are massive, powerful, reliable and yet amazingly simple. See the heavier castings, larger bearings, automatic oiling system, enclosed crank case, extra heavy crank shaft, open water jacket. These are things to look for—things which count in buying an engine for your work, whether inside or outside. Comparison with any other engine, point by point, will prove the superiority of the Fuller & Johnson Double Efficiency Engine to your satisfaction. They are frost-proof—will start when wanted.



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The Famous Fuller & Johnson Farm Pump Engine

The little labor-saving giant that does more work than a team on the farm. Pumps water, runs the corn sheller, fanning mill, washing machine, separator, churn—any and every kind of small machinery. Will pump 400 to 1,000 gallons an hour. Yet costs little. Gives certain and positive water supply, regardless of conditions.

"People's Price" Engines

Here is an engine built with the same care and embodying the principal superior features and quality of our famous Double-Efficiency line, which we have been able to make to sell at a **popular price.**

It has all the newest improvements—strictly up-to-date. You get a wonderful money's worth in the Fuller & Johnson People's Price Engine. No other engine concern in America can give you the high-standard Fuller & Johnson quality at such prices.

It will pay you to get in touch with Fuller & Johnson and learn how they can save you money on your farm power requirements. The coupon is for your convenience, or a postal will bring full information.

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More About the "American Cow."

By B. O. Cowan.

IN A RECENT issue of the London Live Stock Journal an English writer expresses his doubt of the correctness of the generally accepted history of the cow known in Short-horn history as the "American Cow." This cow is mentioned in Vol. 1 of the English Herd Book in the pedigree of her daughter Red Rose, and her breeder was Robert Colling. Her daughter, Red Rose, by Yarborough, was bred by Mr. Hustler and recorded as owned by Thomas Bates. In both Allen's and Sander's histories or Short-horns it is stated that a son of Mr. Hustler came to America about the year 1801 and located in New York City. Among the cattle he brought over was this heifer that was afterward called the "American Cow." Both historians say that young Hustler afterward returned to England and took this cow back to his father's herd, where she was bred to Yarborough and produced Red Rose, calved in 1811. This record is supported by the opinion of William Warfield and a circular issued by John Thornton, England, and the English historian says this heifer was bred by Robert Colling and sold to go to America. If she came to America and was returned later to England, as these two historians assert, it is not difficult to understand why she was called the "American Cow."

In spite of these statements this writer in the London Live Stock Journal seems very skeptical and says: "This all seems to be conjecture; there is not one definite fact with which to support it. It is not even certain that Mr. Hustler's son went to America. If he did where did he reside?" This writer quotes from both Allen and Sanders about this cow, yet refuses to accept their statement that young Hustler did come to America and settle in New York City and that he sent the cattle he brought over into the county of West Chester. He seems to think it rather remarkable that a cow should have been imported to America and then exported to England without some record of the transaction. At that time there were no herd books in either England or America and no record of cattle sales was made except the imperfect private records of a few breeders of Short-horns. The fact as late as 1817 pure-bred Short-horns were imported to America without pedigrees shows that the importance of accurate records was not fully appreciated.

Because of the descendants of this "American Cow"—the Cambridge Rose and Red Rose tribes, and particularly a branch of this family known as the Rose of Sharons—this critic of accepted opinions thinks it possible that some data or letter may exist in the archives of the Renick family that will furnish exact information about this disputed question. This supposition is not likely to be realized and has not sufficient foundation to make it even a probability. The first importation made by Felix Renick for the Ohio company was in the summer of 1834. In this importation was Rose of Sharon, bred by Thomas Bates, a descendant in the fourth generation of the "American Cow." Rose of Sharon afterward became the property of Abe Renick, Kentucky, and in his herd, and under his skilful management she produced a family of cattle that for many years was exceedingly popular. So far as printed records indicate, this purchase of Short-horns made by Felix Renick in 1834 was his first transaction with Thomas Bates and the buying of Rose of Sharon was certainly the first produce of the "American Cow" the Renick family had ever owned. Whether or not he had any dealings or correspondence with Thomas Bates prior to the year 1834, I have had the privilege of looking over the letters received by Felix Renick from Thomas Bates from 1834 to 1841, now in possession of Abram Renick, manager of the American Short-horn Breeders' Association, and these letters furnish no information about the "American Cow." As the purchase and importation of Rose of Sharon occurred thirty-three years after the reputed importation of the "American Cow" by Mr. Hustler it is not likely that Mr. Bates would have referred to that circumstance in his letters to Felix Renick, especially since the transaction took place before this family of cattle came into Mr. Bates' possession, Red Rose by Yarborough being the first one he ever owned.

While the question may never be settled beyond the possibility of doubt, the evidence at hand warrants the statement and belief that the "American Cow" was brought to America and afterward returned to England. To disprove this belief will require much stronger evidence than has been furnished by the writer in the London Live Stock Journal.

A tractor won with five bushels of wheat grown by the men whose pictures are also shown, along the line of the Northern Pacific in the Shields Valley of Montana. See field note entitled "High-Yielding Wheat Wins Tractor."

Charles L. Hill, president of the American Guernsey Cattle Club, is fathering a plan which will permit of the registering of well-bred grade Guernsey cows and heifers of high production in the regular herd books of the breed. He proposes to grant full recognition to grades which have five top crosses of Guernsey blood and whose dams in a single year have produced an amount of butter fat equal to that required for their age by the Advanced Register. The proposal is entirely radical, but as it places the emphasis on production, it is believed that breeders and dairymen in general will approve of the plan.

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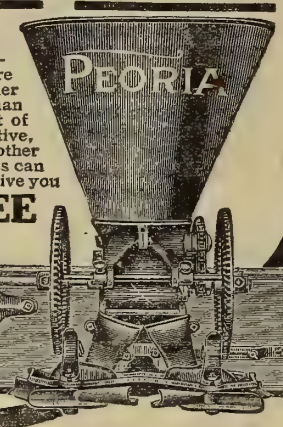

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HORTICULTURE

SOME GUIDING IDEAS IN PRUNING FRUIT TREES.

To the Editor of The Homestead:

The chief object in pruning is to induce the tree to yield crops of fruit and grow healthy wood for future crops of fruit. Every branch produced draws upon the resources of the tree and soil. It is the branches most favorably located that perform the chief functions of carrying on the work of the tree. Those less favorably located do not produce high-class fruit and become an unnecessary drain upon the rest of the tree. The object of pruning, therefore, is to throw the energies of the tree into the most productive parts. The other parts must be removed. Tillage methods have a great influence upon the strength and vitality of the tree and to a large extent govern the necessities of pruning. A poorly nourished tree cannot support a large bearing surface, while a vigorous, well-fed tree can support a correspondingly large number of branches. The strength of the tree and its available supply of food should be carefuly considered before any extensive system of pruning is to be undertaken.

To properly prune a tree one must know on what wood and under what conditions fruit spurs grow. Apples, pears, quinces, most plums and cherries are borne on wood two or three years old, so as to take out all such wood would result in no fruit. With these fruits it is not necessary to practice heading in, except as a special resort. All peaches and some plums bear fruit on the wood of the past season, and must be headed in more or less to keep the bearing wood near the trunk. One should have a definite purpose in pruning a tree. A young tree should be trained, so that in later years it will have a vigorous and productive head. By directing its growth is forced to grow in the desired directions. By having a definite purpose the skilful pruner removes branches before they form, that is, he destroys the buds and twigs that would grow out of place and not be wanted. A sharp knife is the most valuable tool. No large branches that are not wanted are allowed to grow and all his efforts are toward encouraging the tree to grow toward the ideal he has in mind after a careful study of the form of tree best adapted to his special line of fruit production.

The real problem in pruning begins with the setting of the young tree. If a one-year-old tree is planted the branches should all be removed and the stalk cut back to about the height desired for heading. This may vary according to the kind of fruit and the ideals of the grower. The head cannot be formed until the next year brings out the branches that must be thinned out and those retained for the framework of the tree. If two-year-old trees are selected from the nursery row, the work of heading can be begun by cutting back all the branches about five inches from the head and leaving the ones that will be wanted to form the head and possibly a few more to enlarge the leaf area. These can be cut off later. For the first few years the main object is to train the tree in the direction it should grow. The peach tree is the only exception to this rule. It should be cut back as little as possible to avoid danger of stimulating the tree and causing a too heavy growth of immature wood.

At regular intervals during the growing season it pays to prune out or rub off all undersirable shoots that are likely to need cutting out in future years. The next spring a strong branch with an upright tendency should be selected as a leading shoot, the side shoots may be cut back two-thirds, the leader being left somewhat longer so that other branches will be given off from it, but not in such quantities as to prevent the sunlight from shining all through the tree. After the tree comes into full bearing, the chief object is to secure first-class fruit in moderate quantity, and if the mistake of leaving too much wood has been made in the past, it will be necessary to resort to severe pruning, not only of the present year's growth, but many times much more.

In cutting back a large branch remember to cut back to the trunk, to avoid leaving an unsightly stub. The best time to perform this work is after the severe winter weather has passed and before bloom commences. In the large commercial orchard it is not always possible to do everything in season, so it may be done in mild winter weather without seriously injuring the trees. Only common sense can tell a man how much wood to remove during the period of the tree's development. If a mistake is made it should be on the side of light pruning. Much depends upon the variety, the soil and the climate. One must decide at the time of planting whether he is to practice high or low heading. Modern growers favor low-headed trees, because it saves work in spraying, pruning and harvesting, the fruit and the trees are less injured by winds and the trunk is less liable to sun-scald or winter kill, besides the low-headed trees come into bearing at an earlier age.

The two general types of head are the open-centered tree, and the close-centered tree. In the first the framework consists of the short trunk surrounded by four or five main branches ascending obliquely. In the second the trunk continues up beyond to main side branches and form the center of the tree. As a rule the latter is preferable in many localities. Which ever the form, care should be taken that the lowest branches will be exposed to the light and sun.

W. M. Kelly.

BREEDING NEW FRUITS.

The systematic breeding of new fruits is really a twentieth century venture. It was agitated seriously in the nineties, but the efforts made at our various experiment grounds at that time, were, compared to what is now done, hasty and ill-considered. The most of the work done in the past was in the primitive way of planting all sorts of seeds, indiscriminately. In that plan, nature was depended upon to do the crossing, and man's work was expected to be chiefly the growing of enormous numbers of seedlings and selecting from them the very rare individual of some value over well-established varieties.

But, largely through the experiments of C. G. Patten, the Iowa Burbank, there came to be known certain laws of tree breeding, and modern work is very largely along the line of those established facts. The prepotency of the mother tree was known. And the fact that trees like animals were likely to take back, the value of a hardy ancestry, running back for several generations was established.

The fact that color and form are possibly under control became known, and other facts which showed the importance of hand fertilization. So there was realized, in this new field, the importance of the axiom, that a principle of science is a law of art.

Modern work in tree breeding consists in crossing certain varieties

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with a definite purpose in view. There are four definite points to reach; size, color, quality, and hardiness of tree. The last named is the most important for the Northwest, for without that all the other good qualities combined were utterly useless.

The work of hand fertilization is not extremely difficult. It only requires a good eye, and a fine touch. The blooms which contain the pollen to use may be kept in good condition for some days. They have been packed and shipped across the continent and then used with good results. After the pollen is applied, it is customary to bag the twig, holding the blossom treated. A thin paper sack is put over it and securely fastened. This not only prevents any other pollen settling upon stamens, but it usually prevents any one of the dozen accidents likely to happen, the destruction by bugs, or worms, storms or frosts.

From the fruit so grown, the seeds are carefully saved, and labeled, for scientific breeding is not only a matter of careful field labor, it is also a matter of bookkeeping. The seeds, buried in sand are put through the freezing process and planted in the early spring. In case they germinate well we are past the first critical stage.

Properly tended we have at the end of six months, some thrifty seedlings. And then comes the transplanting, for they must be set in the orchard with room enough given each tree to make a vigorous growth. And now comes the long waiting season, for it usually takes ten years to test the fruiting capacity of a new apple. And in some cases you must add five years more to make sure. In common practice fruit is obtained three years earlier by grafting the new sort into a bearing tree of some old variety. This is a help, but the fruitfulness of the original tree is one of the elements which must always enter into the final estimate of value.

From all this it will be seen that it is no light matter to enter the realm of fruit breeding. No returns can be expected, but care and labor must be given for at least one fourth of an ordinary lifetime. And in the end the experimenter finds that perhaps one tree of a thousand under test has some value, enough so that it will pay to introduce it.

This business will not be done by the ordinary man. Only the extraordinary man will undertake it. He must have the spirit of the philanthropist with a bank account.

GROWING SPINACH AND KALE FOR GREENS.

To the Editor of The Homestead:

I very rarely have a failure with spinach and kale, and also it is very rare to have a failure of a crop on land where they have grown previously, as spinach seems to improve the texture of the soil and is beneficial to the crop following it. Besides being one of the most profitable of crops, spinach is a fine green crop to turn under.

Kale also is a very profitable crop for greens, but does not seem to have as much value as green manure plowed under as does spinach. I do not grow mustard for market as there is very little demand for it with me.

My spinach season starts about September 15th and closes about June 1st. My kale season is from about February to June. In my experience spinach does best on gravelly clay that has had a good coat of manure applied before the previous crop, while kale seems to thrive best on sandy loam. For fall spinach I plow the ground as soon as possible after the previous crop is harvested; no manure is applied. After plowing, the ground is disked thoroughly, then floated down. After each shower the ground is disked and floated again, every effort being made to get moisture and hold it.

When the time comes to plant the seed is drilled rather thickly in rows eight inches apart. If the ground threatens to crust after a shower I have it gone over with rakes. When the spinach comes it is cultivated with the wheel hoe until time to cut. For spinach and kale that is to be wintered through, the ground is prepared as for fall spinach, the seed sown thickly and late enough so that when cold weather comes it is just about big enough to be cut.

No artificial covering or protection is necessary in this climate for this size spinach, provided special care is given to two points—the seed bed must be well packed and the seed sown thickly. This last fall I tried the experiment of giving a small patch of fall-sown kale a light covering with wheat straw. Results on this cannot be had till spring. For spring sown spinach and kale the ground is given a heavy coat of manure and plowed in the fall; then in the spring it is disked, harrowed and floated down; the seed is either broadcasted or drilled. Drilling is preferred, but sometimes it is impossible because of the ground being too wet at sowing time.

For cutting, my hands seem to prefer just a sharp knife. Greens are cut direct into bushel crates which are then emptied into sacks. These are then taken to the bunching house and washed in the wash tank. The greens are then resacked and are ready for the market. I sell considerable spinach and kale, as well as much other produce direct by telephone before they are put up. Very little is taken to my home market unsold, as I am able to reach all my home customers by phone. However, considerable of my stuff goes to a good mining town to which I have to ship twenty miles by rail. I usually send a load through the country to the town at the same time I send stuff by rail and have the team meet me at the depot.

One of the most important things to observe in growing spinach and kale is to get reliable seed. This lesson was brought home to several of the gardeners in my neighborhood very forcibly this last fall. Myself and several others near me bought our seed of a reliable seedsman, while many other growers here bought theirs of a local grocer. All planted about the same time. No rain fell for any of us for some time, about four weeks; then we had a light shower. Our seed came up at once, but not one seed of the other gardeners' planting sprouted.

By the time the other gardeners could grow a second planting I had sold over fifty bushels at $1 per bushel; then the price dropped to fifty cents per bushel; a very good price, of course, but they failed to get the cream which was at the top, as is always the case. Prices for fall spinach range from fifty cents to $1 per bushel, spring spinach from forty cents to $1 per bushel, kale from forty to eighty-five cents per bushel. It is the first on the market that brings the best price and it is up to us gardeners to put it on the market in time. One thing sure; it don't pay to fool time away with poor seeds, for market gardening, nor general farming. The best seeds in the best prepared land is far the cheapest and most profitable. R. B. Rushing.

THE FAMILY APPLE ORCHARD.

To the Editor of The Homestead:

A family orchard is very valuable as there is nothing that can take the place of good apples either in the summer or winter. Children that have plenty of apples to eat during the fall and winter generally keep free from biliousness and fevers. To have the privilege of enjoying a plate of apples before bed time is not only a pleasure, but health giving. This means fewer doctor bills.

There are quite a number of varities of apples, but when putting out a home orchard the farmer should select those varieties best suited to his locality. For the middle West there are a number of varieties that do well. The farmer should aim to have some trees of the summer, fall and winter varieties. For summer the Red June and Early Harvest are excellent varieties. The trees do well and are healthy and hardy. They are splendid cooking apples and also very palatable when eaten raw.

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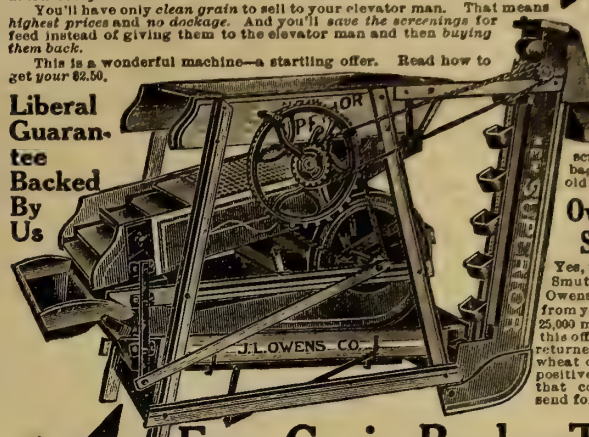

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Remember my seeds are all Nebraska Standard. I pay freight on $10.00 tree orders. Send for catalog, see my prices. A postal brings it.

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Northern Spy is a good fall apple, especially for the northern sections. It grows large, is juicy and crisp. It ripens in September.

For winter use the Ben Davis is the best keeper, although as an eating apple it is below par. It is a splendid cooker. The variety is so well known that it is useless to commend it. There is no apple that will come so near producing a crop every year. The Gano is similar to the Ben Davis in character and quality and is also worthy of consideration when setting a new orchard.

While the Jonathan is not quite so good a keeper as either the Ben Davis or Gano, the fruit is more highly flavored. It does not keep so well as either of the other varieties, but it cannot be excelled for eating and cooking purposes. The Grimes Golden is a most excellent apple, but it requires good, rich soil and the land must be high and dry and well drained. Its fruit is even more delicious than the Jonathan. Two of the latest varieties are the Ingram and Geniton. Where late frosts prevail they should be planted, especially if the soil is heavy and rich. Their excellent keeping qualities especially commend them for the home orchard. If one will carefully consider these varieties when ordering trees for the home orchard he will have in a few years a nice little orchard that will supply him all the fruit he needs for his family.

W. D. Neale.

The Importance of Seed Testing.

By A. A. Coult.

MISSOURI is one of the states which does not have an adequate law prohibiting the offering for sale of impure and adulterated seeds, and has become the dumping ground by unresponsible seed dealers for large quantities of trashy and weed-mixed grains and grass seeds.

Very few farmers can tell whether they are getting pure alfalfa, or timothy or half a dozen other important seeds for sowing. Since S. M. Jordan has become manager of the Pettis County Bureau of Agriculture he has requested that all seeds purchased by the farmers be submitted to him for a purity test. One lot of alfalfa seed, bought in a neighboring state, was so bad that he sent a large sample to Washington for inspection, which was reported as having 4,000 weed seeds to the square rod, based on sowing sixteen pounds of seed to the acre. Some clover seed purchased by another farmer showed eighteen dodder seeds to the square rod, based on the regular amount of seed sown per acre. Missourians do not need to pay out their hard-earned money for weed seeds, when they raise more than they want at home.

With a few such cases of bad seed called to their attention, the Pettis county farmers are all turning to Mr. Jordan for information as to where they can buy pure seeds, and after they get same bring him samples to be tested before planting. The work has become so heavy that he has made seed testing a part of the regular laboratory work at the Sedalia High School, where he gives two lectures a week. All samples are submitted to the high school classes for purity tests. The particularly bad looking samples are divided into three equal portions. One lot is sent to the seed testing laboratory at Washington, one lot to the seed testing class at the high school and Mr. Jordan personally tests one lot. After the reports are completed he compares the three tests. Prof. C. A. Philpott, principal of the high school, also gives considerable of his time to directing the seed testing in the laboratory. The desire to know the various kinds of seeds has become so great that some of the teachers of the rural schools are making a special study of it at the high school laboratory so that they can be able to show the scholars in their schools the most common varieties of seeds.

In connection with the pure seed campaign Mr. Jordan invites all of his farmers who have seed for sale to submit samples to him for testing and upon the purity and cleanliness of the seed he sets a fair price for both seller and buyer. C. E. Messerly, Sedalia, had 800 bushels of machine-run wheat last summer, which he recleaned thoroughly, getting 600 bushels of extra fine seed wheat. He sold the entire lot at $1.25 per bushel, which netted him $750 and he had 200 bushels of wheat left. The best he could have obtained for the machine-run wheat was ninety cents per bushel, or $720. He sold 100 bushels of the poor wheat at ninety-cents per bushel and the remainder, which was mostly cracked wheat was sold for chicken feed. The cost of recleaning his wheat was $50 for a new machine and $12 for labor. He made $58 cash profit, 100 bushels of good chicken feed and a cleaning machine as good as new on the recleaning. W. L. Brown, Sweet Springs, recleaned his timothy seed and showed a sample to Mr. Jordan who sold the entire lot of 100 bushels at $2 per bushel, while the regular quotation was only $1.20 per bushel. Some samples of seed brought in for Mr. Jordan's inspection are so bad that he advises against trying to sell it for seed. He shows the farmer just what the mixture contains and that it is better to lose a little money on the lot than to get a bad reputation for growing poor seed.

As a result of Mr. Jordan's guarantee of tested local-grown seeds his office has become headquarters for buyers and sellers and he could sell at advanced prices over regular seed quotations, much larger quantities of various seeds than his farmers grew last year. He does not make any charge for testing the seeds, nor for any of the sales which he is able to make for his Pettis county farmers.

THE GLASS MILK ROOM.

To the Editor of The Homestead:

Recently the writer visited a farm of a dairyman who furnished special pure, clean milk for babies in one of the large western cities. One of the most striking and impres ve features of the place was the glass sun room connected with the milk house. There was the ordinary boiler room and separator and bottling room much the same as is seen in all good dairies with the sun room attached on the south side.

About fifteen feet in length and ten in width and about the same in height the room was entirely of glass panels on the east, the south and the west and the roof. All the utensils of the dairy pails, cans, strainers, separator bowl, and fixtures, bottles, cases, bottler and all other essentials were arranged on racks within the glass room so that the sun would have access to it during the day. Needless to say the glass room has a cement floor and is kept perfectly clean. Nothing but the dairy utensils are put into it.

Why all this trouble? Why all this expense? It is all done for the purpose of assisting in producing milk that is pure, clean and not contaminated with disease germs of any kind. Sunlight the owner knows to be the greatest disinfectant and destroyer of disease germs in all the world if it is only given a chance. The glass room gives it the best opportunity possible. Then the glass walls and roof protect against contamination from the exterior. No dirt or filth of any kind can blow upon the utensils. No insects can get to them. Especially is this commendable when the dread fly is thought of. No fly ever touches anything in that glass room to leave the germs of typhoid or other disease upon the pails, bottles or other equipment. The glass room is the acme in the production of clean milk. The cows are tested and known to be free from disease. They live in the open and are healthy. They are kept clean and are milked in a clean barn. Everything is clean. After using everything concerned in the work is scalded. After scalding the sun completes the cleansing and the glass keeps out contamination. Truly the owner's ideal, "clean milk for babies," is a noble one. The glass room is one big factor in his approaching that ideal.

H. E. McCartney.

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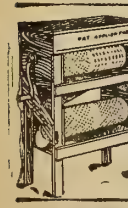

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DAIRY

ARE DAIRY ANIMALS TOO CLOSELY HOUSED?

Realizing that performance is the ultimate purpose of the dairy cow and bending every effort to develop this characteristic, breeders of dairy cattle have sometimes allowed themselves to become somewhat one sided in the direction of milk and butter fat production.

This, at any rate, is the opinion of Dr. Henry Favill, of Chicago, who is recognized as one of the leading physicians of the middle West and who owns and operates a large dairy farm in Jefferson county, Wisconsin.

While granting that performance is the ultimate purpose of a dairy cow he is convinced that there is a type which carries with it not only the best performance, but the best physique as well. A moral obligation, he believes, rests upon breeders of pure-blood cattle to steadfastly fight for type, not as a mere esthetic achievement, but as having a fundamental relationship to performance.

Admitting, as we must, the menace to the dairy industry of tuberculosis, to say nothing of other infectious diseases; halting along unsatisfactorily as we do with the tuberculin test and its weeding-out method, can we close our eyes to the fact that safety in this situation lies in the development of a vital resistance and that particularly in the earliest months of life?

So far as concerns tuberculosis, it is beyond question that the strong, well-developed animal with large lung power, habitually used, is more resistant to tuberculosis than the feeble and delicate. Tnere is, however, no such thing as absolute immunity and any animal too constantly subjected to infection is liable to become tuberculous.

There is no question that there is less infectious material outside the barn than within it. When we stop to consider, therefore, the highly stimulated resistance on the one hand and the less exposure to infection that there is in the open air on the other, can we avoid the conclusion that our animals, and particularly our young animals, are safer in the open air than they are in the barn?

If we adopt that as a fundamental principle, there remains for us the problem of fitting this principle into our scheme of operation. There is no doubt, for example, that calves can be kept looking better in the stable than in the open air during certain seasons of the year. There is no doubt that the attack of flies upon young stock hampers its development. There is no doubt that exposure to cold roughens their general condition and appearance. It takes more food to keep them in condition in open air than in stable life.

Have we not to accept these disadvantages immediately obvious and regard them as far more than offset by the advantage not so immediate nor so obvious, but none the less possible as to development, constitution, and resistance to disease, which our intelligence teaches us really pertains?

As farmers we are altogether too prone to follow the line of least resistance, and the line of least resistance is the old plan of a six to twelve months' sentence to more or less solitary confinement.

Have we not to use our ingenuity and our liberality in dealing with this problem before we can have reasonable assurance of the vitality of our stock to come?

It has been suggested that continued breeding from tuberculous cattle, avoiding infection of the calves, would produce a race of animals immune from tuberculosis. It certainly, however, is as likely to be true as the reverse, namely: the production of more susceptible animals. There is no reason, therefore, so far as we know, why we should not judiciously breed from tuberculous cattle.

In spite of the fact that in the case of the modern highly developed dairy cow we are dealing with a most unnatural product, there is no reason to suppose that the factors determining life and constitution have not a true and fundamental relation to natural conditions of existence. The question then always is, to what extent the unnatural development of the milk function and the industry built upon it necessitates unnatural conditions or living for the animals? And the principle should be to draw the line as close to natural conditions as the industry will permit. In so doing there is opportunity for exercise of

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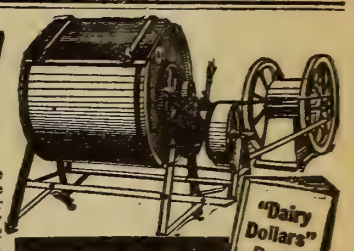

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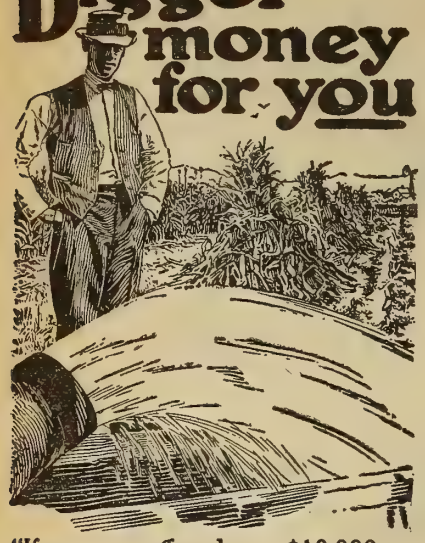

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AGREEMENT UPON GOOD ROADS LAW.

The Tice good roads committee appointed by the last general session of the Illinois legislature finished its investigation recently and agreed upon a bill which will be offered to the new general assembly.

The committee recommends a revolutionary change in the Illinois system of caring for roads and bridges; abolition of the present 4,800 separate taxing and administrative units, and a uniform system of state aid, through a new highway department.

The chief points in the recommendations of the committee follow

Creation of a state highway department, the executive of which to be a state highway commissioner, appointed by the governor.

Appointment of a chief highway engineer and one assistant engineer, and of county highway engineers.

State civil service to apply to all highway officers except commissioner, engineer, and assistant engineer.

State to have full authority in construction of all highways and bridges builded by state aid, and after completing the highways and bridges to be under control and management of state highway department and wholly maintained by the state.

Uniform system of constructing and maintaining public highway.

Uniform system of accounting and auditing expenditures of all highway funds.

Payment in cash of all taxes levied and collected for highway purposes.

Forty feet to be standard width of all public highways subject to topographical conditions.

County board to grant the right and fix the compensation for use of any part of state and roads by public utilities, subject to approval by state highway department.

Abolition of the three highway commissioner system and election of one highway commissioner in each highway district or township.

All convicts in state prisons physically able to be employed in preparation of road construction material, and if found expedient, may be employed upon highways.

County aid for construction of permament highways, other than state aid roads, may be given to an amount not exceeding 15 per cent of actual cost of such improvements.

If county board determines that it is expedient to build a bridge it may defray the entire cost and the bridge shall be built under supervision of the county engineer.

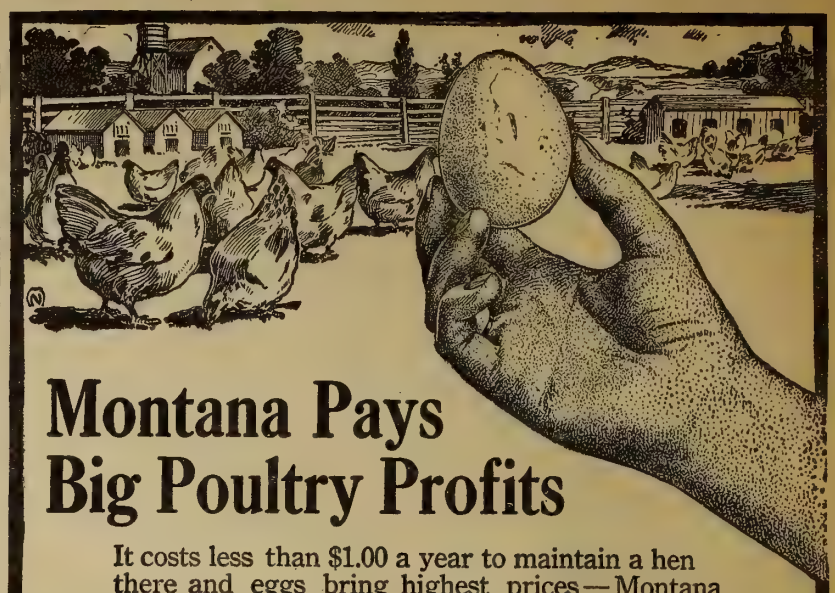
State automobile license fees shall be payable to the highway commissioner, who shall collect from justices of the peace fines for offenses committed on state aid roads. All license fees collected under automobile laws shall be used for constructing and maintaining state aid roads.

All other highways, than state aid roads, shall be under control of proper local authorities, in conjunction with the county highway engineer.

Uniformity of taxes for road purposes to be established by annual certification in September by the local highway commissioner of amount necessary to be raised for county roads and bridges, the same, if found proper, to be certified by clerk as taxes against taxable property by order of the county board.

The policy the members of the committee will be to push the measure to the front as one of the main items of legislation to be enacted. The indications are that the so-called "farmer" members will insist that the road bill be given precedence of all proposed progressive legislation.

The farmers of this country can raise as good horses as do the breeders of France. They have, in the opinion of James G. Boyd, a Milwaukee county breeder of Percherons, and one of Wisconsin's most noted horsemen, but to select the proper breeding animals and then give the colts they raise the proper care. Mr. Boyd believes that by offering liberal premiums for the exhibition of foals and yearlings, the fair associations could and would greatly encourage the production of more and better horses. In some sections of Wisconsin and other states in the middle West breeders hold community colt shows which will do and are doing much to develop the draft horse industry in these respective districts. Horsemen should have in the respective fair associations the necessary administrative force for the development of superior exhibits of homebred hroses and other stock.



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A Justice of Peace and farmer made $347.00 during December, January, February and March last year with practically no effort on his part. Just as he happened to meet his friends he asked them to subscribe.

An old soldier has earned $386.00 in the last year and has not been away from his blacksmith shop to solicit subscriptions.

A lady who had sold extracts all her life took up our work last winter and has made over $300.00 this year without leaving her home town.

It requires no particular ability to become a subscription representative. There is no reason why you should not make from $300.00 to $600.00 this winter, looking after my subscription interests in your locality.

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If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of spelz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

There are some flowing artesian wells in this territory, and everywhere that wells have been put down water comes to within thirty to sixty feet of the surface. Irrigation by pumping will doubtless be commonly practiced, and the tremendously increased yields will pay big dividends on the small investment required for gasoline or oil driven pumps.

The climate is pleasant and healthful. Your boys and girls will find good schools. Churches, social clubs and farmers' institutes are being organized. Rural telephones and free delivery are coming in. In every way development is rapid, and only a few years will give you every advantage that older communities have.

You can secure a quarter section (160 acres) for only $200 down. The price is $10 to $15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

For further information write for illustrated descriptive folder containing map and full details.

Santa Fe Land Improvement Co.
Topeka, Kansas

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Echoes From a Kansas Farm

BY HENRY HATCH

Hog feeders have been watching the market reports of the past few weeks with considerable interest, an interest that is mixed with both fear and hope, according to the man who is expressing his feelings. One man will say that he expects to see top hogs sell for six cents at the river markets, while the next man predicts an advance rather than a reduction in price.

It is a shame that a farmer cannot know what he is to get for his stock when he begins feeding for the market. A manufacturer knows what he is to get for his product before the machine is built.

A long-range forecast of a white Christmas proved the worst guess possible. With the Dakotas buried in snow and snow to the southwest of us, it likely seemed probable to the weather sharps that snow would close in on us, but Kansas has hardly seen a snowflake since last spring.

Again the corn shocks are too dry to permit of husking without a waste of fodder. When dry the waste in husking shocked corn is in the most valuable portion of the fodder—the leaves. Corn fodder stripped of leaves is next to broomsticks in feeding value.

A trip will be made this afternoon after tankage, which we will use in finishing thirty head of shoats for market. This will be our first experience with tankage, and we'll tell you more about it a little later. More and more is being used around here, and all who have used it so far think it the best and cheapest balancer to use in connection with corn.

The roads are now fine for any kind of traveling. It is possible to drive an auto for miles without a shift of gears. We do a great deal of truck work with ours, often hauling 700 and 800 pounds. We are going twelve miles after the tankage this afternoon, being able to get it cheaper where it is shipped in carload lots.

The Grange in a portion of this county is going to put in a poultry, egg and produce buyer of their own. This is a good move, and one that should be followed everywhere. A few years ago eggs were bought by buyers here on a margin of two cents a dozen above Kansas City price, but now they are demanding and getting from four to five and oftentimes six cents on the dozen, and the eggs are subject to candling during the summer months now, in addition.

Everywhere, and in all lines, the middleman is asking more for the small part he plays in the distribution of the products of this earth. It is hoped that parcel post may open a way that will lead direct from the producer to consumer, but rates will have to be reduced before any great benefit can be expected along this line.

It has proven a good fall for any kind of building, some of which is still under way. Every year sees some building being done in almost every Kansas neighborhood, and it is usually better and more substantial building than has been done heretofore. People have learned that it does not pay to put up a mere skeleton for a frame, to cover with a costly roof.

In grandfather's time building was done with great timbers, usually hewn out of nearby trees. It took a strong frame then to carry the weight of the massive framing used. This was the extreme of using too heavy farming material. When the prairies were settled, far from a lumber supply, the opposite extreme ruled, but the later building of the more prosperous farmer has been along more substantial lines, yet not up to the building done in grandfather's day, simply because that is too substantial to be economical in these days of high-priced lumber.

It seems a hard matter to get good tongues in farm machinery and vehicles these days. A variety of yellow pine is used in most machine tongues, called long leaf yellow pine. When a piece of this material that is straight grained and absolutely sound is found it is all right for the purpose intended, but if, perchance, it checks it soon rots. We do not get any of the old-time hickory tongues that could be wrapped around a fence post by a runaway team, to come out of the ordeal as straight and strong as ever. Such material is reserved for more costly things than cultivator and plow tongues these days.

Try not to let the water troughs and tanks run over and get a glare of ice started around them when the water freezes, as such spots are dangerous to both man and beast. Where any already have formed, scatter old hay, straw, manure or brush over them some day when the ice is thawing slightly, about noon. When it again freezes that night, this material will adhere to the ice and form a rougher surface for the stock to stop on, thus making it safe for them to walk up and drink.

A farmer wrote these books!

—a man who knows farming from A to Z. He traveled through thousands of square miles of the *best* sections in Arkansas and Texas, along the Cotton Belt Route; and found out where the *real* farm opportunities were—the kind that *he*, knew *you* would like to hear about.

He doesn't generalize. He comes right down to brass tacks and tells you what Farmer Tull is raising—shows you actual pictures of Farmer Tull's crops, etc.; and tells you what the same kind of land, near Tull's place, would cost you *now*. He got the personal experiences of scores of farmers in this way; and took actual photos of their places. He points out the best sections for wheat growing, for corn, fruit, truck, etc.—in plain words he sifts the whole situation down to a point where you can say to yourself: "*There* is the most likely locality for *my* line of farming—I'll go and investigate." (And with low round trip fares via Cotton Belt Route twice each month your trip will cost mighty little.) Send a postal *today* for

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CHEAP ICE-HOUSE, HOW TO BUILD AND FILL IT.

To the Editor of The Homestead:

We will give some general directions for cutting ice, building a cheap, simple, but useful ice-house, and storing ice in such a way that it may be preserved without waste during the hottest weather. Ice should be cut with a saw into blocks of regular size so that they will pack into the ice-house solidly and without leaving spaces between them. If cut in this manner ice will keep perfectly well if not more than three inches in thickness; a thickness of six inches at least is preferable. It should be cut and packed in cold, freezing weather, and if, as it is packed, a bucketful of water is thrown over each layer to fill the spaces between the blocks and exclude the air it will keep very much better than otherwise. For a day or two previous to filling the house the doors should be thrown open so that the ground beneath it is filled if the weather continues cold. The house should be finally closed during cold dry weather.

A cheap ice-house is as effective, if properly constructed, as the most costly one. There are some general principles to be observed in the proper construction of any kind of ice-houses and all else is of secondary importance. There must be perfect drainage and no admission of air beneath; ample ventilation and perfect dryness above; and sufficient non-conducting material for packing below, above and around the ice, by which its low temperature may be preserved. The best packing consists of saw-dust, oat, wheat or buckwheat chaff and cut straw, which is the least serviceable.

In building a cheap ice-house, first the foundation should be dug about eighteen inches or two feet deep in a dry, gravelly or sandy soil. If the soil is clay the foundation should be dug two feet deeper and filled to that extent with broken bricks, coarse gravel, or clean, sharp sand. To make a drain beneath the ice of any other kind would be risky, and if not made with the greatest care to prevent access of air the drain would cause great loss of the ice in a few weeks of warm weather. Around the inside of the fountain are laid sills of two by six plank, and upon this are "toe nailed' studs of the same size, ten feet long, at distances of four feet apart. Around these matched boards are then nailed horizontally. A door frame is made at one end, or if the building is over twenty feet long one may be made at each end for convenience in filling. When the outside boarding reaches the top of the frame, plates of a two by six timber are spiked on to the studs. Rafters of two by four scantlings are spiked on to the frame over the studs, a quarter pitch being sufficient. The roof may be of common boards or shingles, but it must be perfectly water-proof and should have broad eaves to shade the walls as much as possible from the sun's heat. The outside of the building, roof included, should be white-washed so as to reflect heat. The inside of the building should be lined with good boards placed horizontally, and the space between the two boardings should be filled closely with the packing. The packing around the ice should be a foot thick at the bottom and the sides and two feet at the top. There should be a capacious ventilator at the top of the house and the spaces above the plates and between the rafters at the eaves will permit a constant current of air to pass over the upper packing and remove the collected vapor. Boards are placed across the inside of the door as the ice is packed until the top is reached. Rye or wheat straw may be tied into bundles and these bundles are packed tightly into the space between the boards and the door. The door is then closed. We have found these straw bundles to seal up the door space of an ice house as well as the door of a root cellar in winter very effectively. When the house is opened in the summer and the upper packing is disturbed to reach the ice, it should always be carefully replaced and the door closed up again with the straw packing. The bundles of straw may be fastened together by means of two or three cross laths, and they can be removed and replaced very readily. The material required for building an ice-house twenty feet long, sixteen feet wide and ten feet high, and which will hold over sixty tons of ice, is as follows: 342 feet 2 by 6 studding; 12 rafters 2 by 4, 12 feet long; 576 feet matched boards; 720 feet boards for lining; 480 feet roofing boards; 3,000 shingles or 480 feet of roofing; one batten door, hinges and nails; about 25 wagon loads of sawdust or other non-conductor would be needed for such a house.

Johnson county, Ill. J. T. McCoy.

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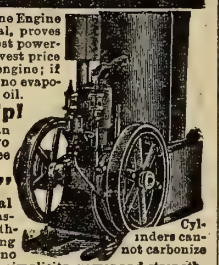

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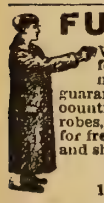

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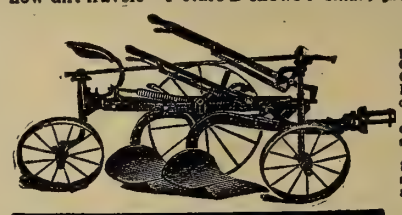

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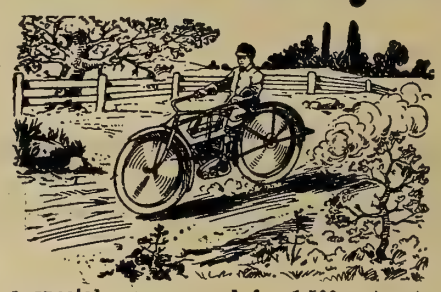
$250 Motorcycle Given Away



YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., 515 Popular Building Des Moines, Iowa

HIGH PROTEIN TANKAGE

Guaranteed Analysis

60% .....Protein
10% .....Fat
15% .....Bone-Building Phosphates

When you consider that by feeding SULZBERGER'S HIGH PROTEIN TANKAGE you secure—

(1) Larger hogs.
(2) Higher price per pound.
(3) Less shipping shrinkage.
(4) Cut feeding period 8 weeks shorter.
(5) Save one-third of your feed bill

How can you afford to feed without it?

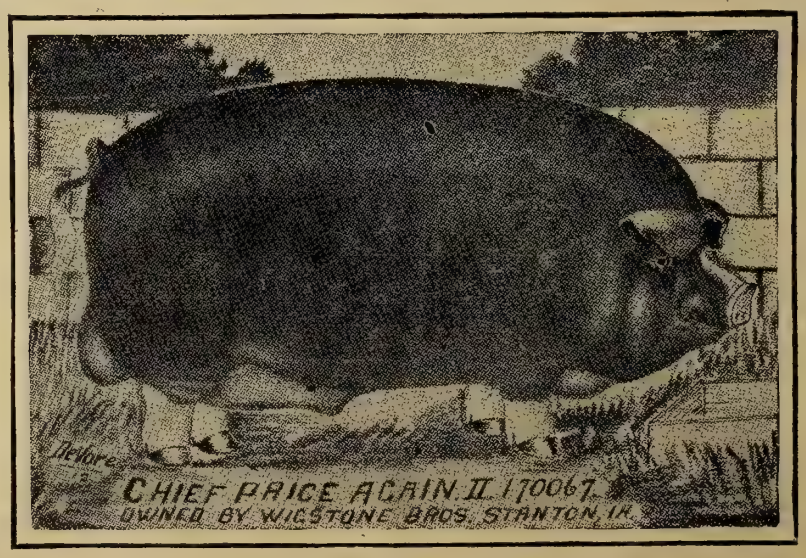
SULZBERGER & SONS COMPANY
Kansas City Chicago Oklahoma City

CEDAR RAPIDS SPEED GOVERNOR

$3.00 MORE butter from each cow per year, when separator is operated by our Governor. Ask your dealer to write direct to

Cedar Rapids Foundry & Machine Co.,
Cedar Rapids, Iowa.

PATENTS Watson E. Coleman, Patent Lawyer, Washington, D.C. Advice and books free. Rates reasonable. Highest references. Best services.



The 1,027-pound boar now at the head of Wigstone Bros.' Poland China herd at Stanton, Iowa. See field note on page 39.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Ill., January 3d.—With about twice as many cattle received locally and at six western markets as the light Christmas week run, but still a crop of moderate proportions and in the aggregate about 13,000 less than the corresponding week last year, the opening week's trade of the new year has given a fairly good account of itself. Heavy beef steers have continued to show a downward trend and the stocker and feeder market is hardly as gay as during the latter half of December, but theree has been no perceptible weakening of values on the light and medium beef steers of fair to good class and butcher stock shows advances of 10 to 25 cents over a week ago.

Relative weakness of the market for big-weight cattle this week to the much larger proportion of such steers around mid week than had been here any time since Christmas cattle supplies were being marketed. The best heavy steers here this week sold on Monday's market at $9.60, but not many have crossed the $9 line and all such have been of very smooth, fat class, although such as claimed $11 and better before Christmas are now entirely lacking. Bulk of t he beef steers ranging in weight from 1,250 to 1,400 pounds have sold lately at $8.20 to $8.85, and the lighter killers, aside from yearlings of some class, mainly at $7.25 t o $8.15, $7 and lower stuff going for slaughter being very common and light and a few prime yearlings selling as high as $8.50 to $9. A broader outlet for beef is expected to develop, now that the influx of poultry is out of the way, and the outlook for a good class of handy and fair-weight beef steers and useful cows and heifers is regarded as very favorable by most experienced traders. Packers, commission interests and railroads have pledged themselves to support a revived attempt to establish a five-day market plan, and with this e nd in view the trade here is advising the holding down of Monday and Wednesday from this time and increasing the movement of cattle to market on Tuesday, Thursday and Friday.

For the year 1913 a cattle shortage seems inevitable. There may be no $11 cattle this year because of feed abundance, but unless the country quits eating beef or a panic engulfs the country high prices for the rank and file of the steers is assured. For years, while liquidation was running its course, forecasters of impending scarcity were ridiculed, but they have abundantly made good. During 1912 cattle scarcity emerged from the theoretical to the fact stags and unless many recognized authorities are guessing wrong, 1913 will make impending scarcity even more emphatic.

Some stock and feeding cattle have sold 10 to 15 cents lower since the first of the new year, but selected lots are about as high as ever. An Iowa feeder took out two loads of 1,038-pound Short-horn feeders Thursday at a cost of $7.75 and some 934-pound Angus feeders cost a Michigan feeder $7.65. Some breedy Angus stockers averaging shortly under 700 pounds went out at a cost of $7.30. Nothing of much class or breeding, regardless of weight, is to be had below $6.25 and the trashy little stuff that can be bought from $5.50 down is such as few stock farmers would care to rough through the winter and give pasture room next spring. A factor in the broad and well-sustained country demand for feeders during the past month or six weeks has been the very mild and open winter in which all classes of live stock have made most excellent gains on less feed than is usually required at this time of the year. It is probable that the first big storm of winter or shut down to severe weather will contract the outlets and that some feeders will then be available at prices more favorable to the buyer.

Bologna bulls are selling close to record prices, best big-weight bulls of that class up to $5.85 and $5.25 bologna material being very plain and light. Most of the good to choice beef bulls are selling at $6.50 to $7.25. Calves are $1 to $1.50 higher than at this time last year, with big fat calves salable up to $7.50 and choice to fancy vealers up to $10.50 to $10.75. Good cutter cows reach $4.40, only emaciated old shells as low as $3 to $3.25. Bulk of the beef cows now making $5.25 to $6.50 and beef heifers largely from $5.75 to $7.25, and prime fat cows and heifers ranging upward to $8 and $8.50, respectively.

A perceptible weakening in the ranks of the allied bears in the hog trade is noted. Local packers are inclined to lag in the bidding from day to day, but are being compelled to admit their needs at regular intervals and are succeeding in putting up no 7-cent droves at this juncture, as they had contemplated. Growers have as much incentive to hold back healthy hogs to make weight now as they had to cash in a year ago when the market was low and the outlook discouraging. Eastern demand, as predicted, is now the stout prop under the market. Shipping orders have absorbed over 31,000 hogs here the first five days this week and as eastern hogs are already well run demand from that source is more likely to expand than to contract as the winter advances. Quality is running good and the spread in prices is narrow. Slight fluctuations have been noted this week, with prices today in the best notches of the period, and the average cost, standing at $7.53, showing a 7-cent rise over a week ago. A top of $7.65 was made and $7.45 to $7.60 took the bulk. Very little save pigs and rough stuff had to sell below $7.40, and there was a good demand for good pigs at $7 to $7.40.

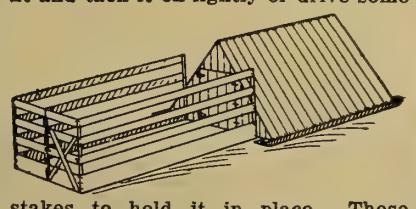
The prospects lend scant encouragement to the packer or pork consumer as regards 1913 hog prices. Disease has ravaged corn-belt herds for two successive years and outside that area the hog scarcity exists in a commercial sense. The heavy impost laid on the 1912 pig crop by the hand of disease must tell on the 1913 supply and any other theory is erroneous. With an actual shortage of beef and an impending shortage of mutton more pork must be provided unless the nation is to go meat hungry. Europe may have quit eating our beef largely, but still requires thousands of tons of hog product and lard annually and will, provided the stuff is available at reasonable price.

Live mutton trade closed the old and opened the new year with lambs fetching the highest December and January prices on record, but the edge of the trade was dulled chiefly by reason of an open market on New Year's day when Packingtown was closed as regards live stock slaughter. Packers' purchases on that day, amounting to about 25,000 head, were at lower rates and as they had all of their New Year day buy on hand Thursday for slaughter, easily succeeded in forcing further concessions. Closing prices were from 25 to 40c lower on lambs and 35 to 60c lower on fat ewes than at high point touched on the closing day of December, and 10 to 15c lower on lambs and 25 to 50c lower on fat ewes than a week ago. Wethers of good class held fairly steady with last week's closing, but heavy yearlings lacking choice quality declined toward the week end. The week was featured by the arrival of the first Colorados of the season, ten doubles from the San Luis valley selling at week's high time at $8.75 to $8.90. At the close fat lambs are selling largely at $8.25 to $8.60, with an $8.65 top, fancy light yearlings to $7.75, bulk from $6.50 to $7.25, wethers of good to choice class from $5.10 to $5.50 and good to best fat ewes from $4.25 to $4.75, big weights at the low end of the range.

That there are no more sheep and lambs in feeders' hands than will, if conservatively marketed and properly distributed, be needed, is the general opinion of the trade. That fat stock should be marketed as ready and others held for a finish, wherever possible, is the consensus of opinion. This policy, if followed, will practically assure a very remunerative market all winter for feeders. The season has been one thus far of feed plentitude, excellent feeding weather, a good market and bright market prospects, but regardless of these conditions much of the supply that has been sent to the shambles has lacked finish, holders being either afraid of storms, too anxious to pocket profit and sidestep a feed bill, or who have had a mistaken idea that their stock was fat. Discrimination against big weight, which now amounts to fully 75c to $1 on heavy lambs and yearlings and about 50c on big ewes, has also doubtless caused some premature shipping of half-fat light stuff. Feeders are easier sold than anything else, but few are coming that country buyers can get to. Some warmed up lambs have gone back to the country this week at $7.50 to $7.65, the highest feeder prices of the season.

THE INDIVIDUAL HOG HOUSE.

I. D. Shuman, Sedgwick county, Kansas, furnishes us with a description and sketch of the individual hog house which he has found to be the best and most satisfactory of all if made right. According to Mr. Shuman the house should be about eight by ten feet and the sides six or seven feet, preferably seven feet. The runners for sills should be about twelve feet long with a hole bored in each end to put the clevis pin in when it is desired to move either forward or backward, letting the boards on the sides drop down about half the width of the runner. The end pieces should be two by fours laid flat on the runner to make a fender for the little fellows, the front one at the doorway being cut out and spliced on the under side that it may not be too high for the sow to walk over easily else it might do great damage. The ends will be up from the ground four or five inches. Cut a six-inch board to fit and tack it on lightly or drive some



stakes to hold it in place. These should be taken off before moving. For the door in front end put on two pairs of hinges and cut into two parts, for two reasons. Some time you may want to make your exit in a hurry if granny objects to your company and then too it is well to leave the top part open to let the sunshine in, giving fresh air to the family without letting them come out. The sow should be kept up a few days before farrowing and also for some time after and then she with her brood should be by themselves nights for some weeks until the danger of robbing is past.

Make three sides of a pen for each house using eight-foot lumber, the bottom board at least ten inches wide and the crack above it not more than two inches. The other boards may be narrow and the spaces wide. The open side of this pen may be narrowed or pressed together and fastened to the house on either side of the door. Nail pieces at one corner of the outer end of the pen, cut out and put on hinges for a door after which drive some stakes in the ground at the outer corners and nail the pen to them. In moving be sure to place them on well-drained ground her the water will not stand in case of a hard rain and it is a good plan to move them quite frequently as it is only a few minutes' work and the little fellows will be much better off if they have a clean bed. Mr. Shuman advocates as many of these houses as there are sows to farrow within three or four weeks of each other.

PULLING 100 STUMPS A DAY. SEE ITEM ON FIELD NOTE PAGE.

R. B. Steele's Hampshire Sale.

On December 7th, R. B. Steele, Maloy, Iowa, made a sale of Hampshires at Blockton, Iowa, and disposed of eighteen head at an average of $26.50. This was his first sale and while the average was not as large as it should be, it was due to the fact that the cholera scare in that part of the state kept a few from buying. Below we list those selling for $25 and above:

5.	H. D. DeKalb, Dekalb, Iowa	37.00
1.	A. S. Blaur, Afton Junction, Ia.	38.00
6.	H. D. DeKalb	25.00
11.	J. A. Saville, Blockton, Iowa	27.00
10.	J. A. Saville	26.00
2.	Fred McKenzie, Blockton, Ia.	27.00
7.	H. D. DeKalb	32.00
3.	H. D. DeKalb	40.00
4.	Lewis McFarland, Benton, Ia.	28.00
8.	R. J. Carr, Blockton, Iowa	35.50
9.	H. D. DeKalb	30.00

My Great Offer Still Good

A Pair of $3.00 Gloves or Mittens Free

I AM the man who startled the tanning trade last season by offering a free pair of mittens or gloves with each horse, cow, steer or bull hide which was sent to me to be tanned or to be made into a coat or robe. This offer was the best that was ever made by a tanning manufacturer. I was able to make it because I have reduced tanning to a science, having had 35 years' practical experience. Other tanning companies said that I would go broke if I kept it up. Before they got through talking, I made another big sensation in the tanning business. I not only gave my customers free mittens or gloves but I gave them greatly reduced prices, yet I haven't gone broke. On the other hand, my business is bigger than ever and I can handle goods cheaper than before. My modern plant can turn out more business than I believed was possible.

Free Gloves or Mittens.

H. B. MICKLE, President.

You Will Have to Hurry

I don't want to disappoint one of the many friends who want to do business with me this year yet I am liable to have to because my factories are rapidly filling up with work. I want you to write today for my best prices. I will quote you low prices on high-class work that cannot be gotten elsewhere. This I can prove to your full and complete satisfaction by a trial order. You take no risk in sending me a trial order as I guarantee everything. After you have received the goods back tanned and finished according to the Mickle process, you are not going to be satisfied but you are going to be delighted with the quality of my work. Mickle work is all hand work. No clumsy machines mangle your hides in our plant. That is why I can guarantee my work.

Get in on my Combination Mitten and Reduced Price Offer

If you have a hide ready, ship it to me today. You don't have to write in first to get the offer. It goes on everything received.

I am sure this offer is going to fill my factory clear full of work and that I will have to refuse some people. I do not want to refuse you, so please write today.

Mickle Fur Coat & Robe Company,

531 West 7th St., H. B. MICKLE, Pres. Mason City, Iowa.

Is Your Home Sheltered?

A Few Dollars Will Protect Your Home and Live Stock From the Wintry Blasts.

Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

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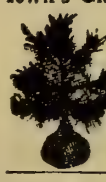
100 EVERGREENS $7.50

Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of

IOWA'S GREATEST EVERGREEN SPECIALIST.



These trees are first-class in every way and fully covered by our guarantee. They will surely please you. We can also sell you prize-winning **"True-to-Name" Fruit Trees** and berry plants guaranteed to prove hardy or cost you nothing. Catalog of special bargains FREE.

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160 pages full of valuable information, with **350 illustrations.** This manual tells you what to plant, when and how to plant it. Write or phone for it now.

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STANDARD varieties. Sept. picked and dried on hangers, best type and germination. Crated, $3.75. Shelled and graded, $2.75. Send for circulars.
W. C. BRYANT, PRINCETON, ILLINOIS

SILVER PLUME

A BEAUTIFUL medium, early white oat with the stiffest straw and heaviest yielding qualities. 85c graded and sacked. Send for post card. Address
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SAVE MONEY

ON your trees and plants and get a valuable Premium besides. A postal will bring full information.
West Side Nursery, Postville, Iowa. B. 1.

Want to Buy Some Hay

LA SALLE FLOUR & FEED CO., LA SALLE, ILLINOIS.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

EARLY CHICKS.

Viewed from every standpoint, for commercial purposes the early chick is the profitable chick. If hatched early enough to weigh two pounds while the price is yet 20 to 22 cents a pound they will bring as much money as if kept until nearly grown with comparatively small expense, and the danger from loss is reduced to a minimum. If capons are desired it is better to get them hatched early, that they may be ready for market at the holidays. For winter egg production it is absolutely necessary that our pullets be hatched early.

To be successful in raising chicks at any time it is necessary that they be well born. If our breeding stock is huddled in cramped quarters with insufficient ventilation and no means of exercise, we are inviting failure. We have found it better to permit the breeders to have the freedom of the range so long as the weather will permit. This precludes the winter egg supply and that is just what we wish. After the first few eggs a hen lays we get the eggs that produce the most vigorous offspring. Somewhat later the chicks will not grow into such big rough-and-ready fellows, but will be better marked; while the later hatches are neither so vigorous or so well marked. Just why they are better marked I do not know, but it is a fact that we study and wonder about each season. Without exception do we find the hen to be less and less able to give the chick vigor as the laying period advances, and no eggs can be relied upon for good results after a hen has laid continuously for three months.

Give the stock an outside run, in all excepting the very severe weather. A temporary yard is easily placed on the sheltered side. Shovel away the snow and throw in some litter, alfalfa if you have it. Clover is good and straw will do in which to scatter the grain. Equal parts of corn, wheat and oats supplemented by skim milk and succulent feed is a good ration. A couple of weeks before you desire eggs for hatching give bran seven parts to one part beef meal, fed dry. There is small danger of hens becoming too fat if they have adequate exercise. It is the flabby, lazy hen that gives the weak chicks. For breeding purposes we are producing eggs under difficulties that the producer of commercial eggs are not subject to. To produce strong youngsters certain conditions must be met, and unless we keep our flock in the best of health we need not count on success.

If depending on hens for incubation, it is not when you please but when she will that you may begin to save eggs for hatching. We prefer the incubator for hatching at any time, and the brooder, through the early season, only.

Eggs should be gathered well. If you want to be sure of it, better go every time the hen cackles. There has been a good deal of discussion about how much cold an egg can stand without impairing it for hatching. The danger lies mostly in keeping them in a varying temperature. Eggs will lie out where a hen has stolen her nest when the temperature is near freezing and a goodly number of chicks will come from them.

Few farmers have elaborate quarters for newly hatched chicks. If the weather is yet cold it is advisable to place the hen in a box in a corner of some of the outbuildings until the wee babies gain some strength. We once knew a woman who kept two hens that had hatched twenty chicks in the wash house and it was an incredibly short time until they were scampering all over the floor and trying to eat everything in sight. It required much care, of course, but eighteen of the twenty lived and brought fifty cents each when other people were beginning to set hens.

A friend not long since declared that five incubator generations would run any chicken out. We have a flock that is the result of hatching in an incubator for ten successive years, and they are a big, lusty, vigorous lot, many of which are two pounds above the standard weight.

The trouble lies not so much in incubators as in getting them from hatcher to brooder. Particular business that, taking the youngsters from warm, moist trays out into the cold, bleak world. And cold and bleak it usually is in March. The foundation for a lot of future trouble is based on this hardening process. We line baskets with flannel, place flannel over the squirming mass, and set the baskets in a warm place. If they get too cold, you will soon know about it; it is when they get too hot that they just wilt down and don't say a word about it.

The chicks are kept warm and quiet until they in no uncertain terms demand something to eat. They were next transferred to boxes, the bottoms of which had been covered with sand, and chaff from the horses' mangers. A little dry chick feed is scattered over the litter and a small water fountain was placed so they could dip their bills in to drink. We heave read a lot about not giving them much water, and there is nothing to it. All the water they wish is admissible so long as it is on the inside. Getting the down and feet wet is what does the mischief.

It is only a question of a short time when they will be holding their cramped quarters in supreme contempt. They can be transferred from the house to brooder, but must be carefully watched for a few days. If they seem cold the heating pipe is not equal to the task.

Now we have gone over this routine many years, but it seems new each time to fill a big jug with hot water, dress it up in a flannel shirt of a small boy and place it in the brooder. They will huddle up to the foster mother to get warm and contented twitter tells us that all is well; and soon they will come and go at will, scurrying here and there, then back to the brooder to get warm.

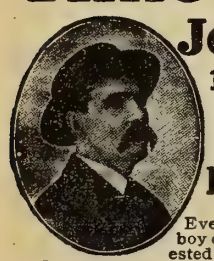
Almost everyone has a system of their own in regard to feeding. We use the prepared chick food until the youngsters are from four to six weeks old. A trifle higher perhaps, but you see it is scientifically prepared and no guess work creeps in. This is especially important when chicks are hatched before there are green grasses and insects. They must be supplied much in the same manner as the winter layers. If it is preferred to use the grains grown on the farm, equal parts

HOW TO PREVENT ROUP.

Dear Sir: Last winter I had 150 hens with the Roup and had lost 27 when I saw Walker's Walko Remedy recommended for this disease. I sent 50c (M. O.) to the Walker Remedy Co., U. 22, Lamoni, Iowa, for a box, postpaid, and will say that it cured all that had the Roup and has kept the disease away ever since. I never had hens do better than last winter, and everyone knows what an awful hard winter it was on chickens. They have been healthier and have laid better ever since using this medicine.

Mrs. Henry Farmer, Jerseyville, Ill.

Now is the Time to Get Johnson's 1913 Book About the Old Trusty Incubator



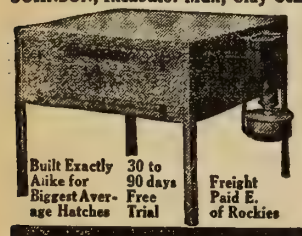
M. M. Johnson

Every man, woman, boy or girl who is interested in chicken raising can have a copy of the 1913 Old Trusty Book free by writing a postal for it. It's the best book ever written by the Johnsons—"home made" and home printed—full of real helpful facts gleaned by the Johnsons from their own practical experience and the experience of over 400,000 Old Trusty customers.

There are over 400,000 good reasons for you to read this book. They are the 400,000 Old Trusty customers who we've started to biggest poultry raising success by reading the *Johnson books* issued in years past.

Send a Postal The Old Trusty is a triple cased machine—inner case of high grade ½ inch powder-dry clear California Redwood—(not a knot in a mile)—then a case of highest-grade asbestos, fire proof insulation—and then the outer case, covering legs and all, of galvanized metal in hand some mottled finish. Johnson's machine is equipped with guaranteed not-to-leak cold-rolled copper tank and heater—direct acting regulator. Price, still less than $10 for 1913, freight prepaid east of Rockies and allowed that far to points beyond. Write postal *now*.

JOHNSON, *Incubator Man*, Clay Center, Nebr.



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Less Than $10

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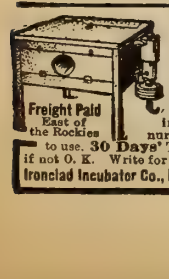
Cyphers Incubators and Brooders together with Cyphers Company Service *insure success* for you. Write today for big new 244-page book "Profitable Poultry and Egg Production"—Free to any address.

Cyphers Incubator Co., Dept. 42 Buffalo, N. Y.



140 EGG INCUBATOR and 140 CHICK BROODER

The incubator is California Redwood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. **30 Days' Trial**—money back if not O. K. Write for Free Catalog today.

Both For $10

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Bigger Hatches With Only 1 Gal. Oil To Hatch—One Filling of Lamp!— Get our new Free Book No. 41 on X-Ray Incubators and Brooders. Shipped direct from factory to you. No agents—no dealers. Guaranteed to please. Freight prepaid anywhere! The X-Ray is the one incubator today that's built on the right principle with the lamp underneath, in the center, and not on the side. This means perfect distribution of heat in the egg-chamber and no outside cold. We use a large oil tank holding four to eight quarts of oil—making only one filling of the lamp, but just four quarts are all that's needed for hatch. Old style machines have to be filled every day. The X-Ray saves both work and money! Heat is regulated by our patented automatic trip which cuts down flame at burner when egg chamber gets too hot—this is a big saving of oil. The ever successful

X-RAY INCUBATOR

has other exclusive and proven features that you will like. It opens from the top—has *two* double glass panels so you can see the thermometer at any time without letting in outside air on eggs. Ventilate or turn eggs by simply raising the lid. There are no sliding heavy drawers to break the eggs. X-Ray is heated to hatching temperature in just 15 minutes—others take 4 to 8 hours because of their *old style* principle. X-Ray is made of all genuine California redwood, covered completely with enameled steel, beautiful rosewood finish, legs galvanized, strongly braced. Every X-Ray incubator fully guaranteed. X-Ray results are the *biggest* results.

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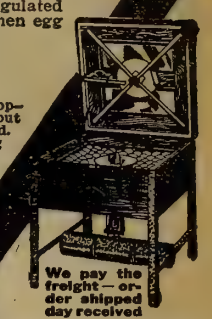
Learn *all* about X-Ray construction—why X-Ray is entirely different and wonderfully better than any other. Read why women and all mere beginners have such *big* success *every time with the X-Ray!* Write today—this is very important news—*worth money!*

X-RAY INCUBATOR COMPANY, Wayne, Neb.



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You Can't Control the Price of Feed

but you can so manage your poultry as to prevent waste of feed and make a profit on every pound consumed. It is merely a question of keeping the digestive system in condition to properly perform the work of turning feed into eggs and meat.

Pratts Poultry Regulator

does just this. It sharpens the appetite, increases digestion, stimulates the egg producing organs, purifies the blood. 25c, 50c, $1; 25-lb. pail $2.50. Don't wait for disease to sweep through your flock. Use

Pratts Roup Cure

25c, 50c, $1

to prevent colds, catarrh and roup. It cures too!

"Your money back if it fails"

Pratts 160-page poultry book 4c in stamps.

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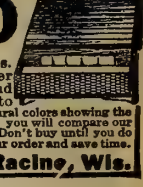
Our products are sold by dealers everywhere, or

PRATT FOOD COMPANY, Philadelphia, Chicago

125 Egg Incubator and Brooder Both For **$10**



Why pay more than our price? If ordered together we send both machines for only $10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay. (112) **WISCONSIN INCUBATOR CO., Box 119, Racine, Wis.**

Only $6.75 And Up

Brings you the world's most famous hatching machine—the incubator with 18 features of superiority—the one that's first in hatching more chicks, larger chicks, sturdier chicks—the most efficient and reliable machine under all conditions—the incubator that's backed by the strongest guarantee ever placed behind a hatching machine.

Don't delay but order a Successful today. You have everything in your favor by starting in the money-making poultry business with my

SUCCESSFUL INCUBATORS —— BROODERS

(Life Producers) (Life Preservers)

I will even go so far as to give you a

$25 Poultry Course FREE

with each machine. This course contains the most practical advice ever given. It tells how to produce poultry and eggs at lowest cost, explains how to sell them to best advantage; in fact takes you from the beginning to end of the business, revealing everything necessary to insure you a big success. Don't delay another day but write NOW for my

Successful Catalogue—FREE

My book tells you about various incubators and brooders. It gives you a good idea of the advantages of each, what size to buy, etc. It is free from all exaggeration and tells you just what steps need to be taken to make good money from the very beginning. Write NOW, before you lay the paper aside.

DES MOINES INCUBATOR COMPANY
50 Second Street Des Moines, Ia.

Note—Our famous little booklet "Proper Care and Feeding of Chicks, Ducks and Turkeys." Sent for 10c, but our big catalog is free. Send for it.

Ask about our thoroughbred poultry and eggs for hatching at lowest prices.

Get FREE Book—Sure

15 Years on The Market

GERMOZONE

GEO. H. LEE'S Great Poultry Remedy

It tones the system, regulates the bowels, keeps chicks and fowls in fine condition. The best remedy for *Roup, Colds, Canker, Swelled Head, Cholera, Bowel Complaint, etc.* Actual figures show it reduces chick losses 90 per cent. Given in drinking water—no trouble. Price 50 cts. Lee's Egg Maker should be used by all poultrymen. Large protein, every ounce digestible. Brings eggs, makes chicks thrive. Lee's Lice Killer is sure death to vermin. Paint on roosts; it kills by fumes. Does not harm fowls. Lee's fine poultry books (3) free. Address

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

Latest Book "Profitable Poultry," 128 pages practical facts, 180 beautiful pictures. Latest improved methods to raise poultry. All about world's famous Runner Ducks, 52 other varieties pure-bred poultry. This Book, lowest prices, fowls, eggs, incubators, etc., only 5 cents.

BERRY'S POULTRY FARM, Box 49, Clarinda, Iowa

WYANDOTTES.

A. L. Anderson

Breeder of high-class GOLDEN AND SILVER LACED WYANDOTTES, Indianola, Iowa. 20 miles south of Des Moines.

100 WHITE WYANDOTTES

My great laying and exhibition strain, cockerels, cock birds, hens and pullets. Write me about them at once, stating plainly just what you want. S. HARR, RIVERSIDE, IOWA

Faha's Silver Laced Wyandottes

BEST in America. Winners at New York, N. Y., Philadelphia, Pa., Little Rock, Ark., etc. Write for catalog. Frank Faha, Jr., Box 620, Dyersville, Ia.

Large Strain of Buff Wyandotte Cockerels

FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

SEVENTY-FIVE (75) R. C. Silver Laced Wyandotte cockerels in healthy condition. Price $1.50 or 4 for $5. Address Ansel T. Brookins, Ionia, Iowa.

PARTRIDGE WYANDOTTES 50 cockerels, 50 pullets. Buff Wyandottes, cockerels and trios. Prize winners. Thos. L. Morlan, Indianola, Ia.

PARTRIDGE WYANDOTTES. The Beauty breed. Some choice ckls. for sale. Eggs in season. If you want good stock write H. Nobling, Perry, Iowa.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address R. B. Rowe, Indianola, Iowa.

WHITE WYANDOTTES ONLY. Can furnish pens not akin, pullets $1 up, cockerels, $1.50 up. Address J. F. Wilson, Downey, Ia.

SILVER Laced Wyandottes, scored cockerels, hens and pullets for sale. Blue ribbon and cup winners at Dubuque, Dec., 1912. Herm C. Ransom, Ionia, Ia.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

WHITE WYANDOTTE COCKERELS $3, $2, $1.50 each. Mrs. Geo. F. Pierce, Route 4, Sac City, Iowa

SILVER LACED Wyandottes. 100 cockerels for sale. Cocks and hens all sold. G. H. Burge, Mt. Vernon, Ia.

FOR SALE White and Silver Laced Wyandotte cockerels. The Malmberg strain. Good color and bone. Malmberg Bros., R. 3, Red Oak, Ia.

White Wyandotte Cockerels $1.50 each. A few Muscovy ducks $1 and $1.50 each. Mrs. T. W. Glass, R. 5, Sac City, Ia.

SILVER LACED WYANDOTTE Cockerels and hens, scored and not scored, $1 and up. Mrs. C. W. Whitham, Fairfield, Iowa

WORPS., Wyandottes, 1st cock Des Moines, trap nested, great layers, ckls., eggs, baby chicks, prices right, order early. Carmichael & Crouse, Perry, Ia.

BUFF WYANDOTTE COCKERELS Farmer's fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

30 VERY NICE SILVER LACED Wyandotte cockerels for sale at $1.00 each. Address Mrs. C. Van Zante, Pella, Iowa.

50 White Wyandotte ckls. $1 each, scored birds $1.50 to $2. Good, heavy-boned, typical shaped fellows. Ethel H. Shaw, Monroe, Iowa.

Partridge Wyandottes Cockerels and pullets of high-scoring birds. Ckls., $2 to $8, pullets $2 to $5. Edw. Meyer, Dyersville, Ia.

SILVER Laced Wyandotte ckls. for sale. Owing to change in location must close out early at prices that will take them. S. R. Young, Greenville, Ia.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

BUFF WYANDOTTE COCKERELS that are buff and Indian Runner drakes. Fawn and White. Geo. M. Deyoe, Mason City, Ia.

GEESE.

EXTRA BIG White Embden geese, young and old. Blue ribbon winners. $3.00 and up. AUG. SCHRAGE, Bristow, Iowa.

MINORCAS.

BLACK MINORCAS and Blue Andalusians, the kind that win. Eggs and stock for sale. H. L. Simpson, R. R. 13, Epworth, Iowa.

DUCKS.

ENGLISH STANDARD RUNNER Drakes. White egg strain. Satisfaction guaranteed. R. H. Patterson, Versailles, Ill.

FAWN and White I. Runners. Unrelated trio $5. Females $2 each. Write for prices on high-scored drakes. Address Mrs. C. A. Robinson, Griswold, Ia.

INDIAN RUNNER DUCKS $1.50 each. Rheinhard strain. Address Mrs. G. W. SHAW, Monroe, Iowa.

INDIAN RUNNER DUCKS and Toulouse Geese Ducks $1 to $1.50; geese $2, ganders $2.50. Elsie McKibben, Hazleton, Iowa.

FOR SALE. A few female Collie pups from reg. parents that are natural heelers. Are ready to go to work. E. M. Filson, Birmingham, Ia.

PEKIN DUCKS Extra large No. 1 laying strain. Hens, $1.50; Drakes, $1.50; young 9-lb. drakes, $3. Mated trio, $4.50. Edward Meyer, Dyersville, Ia

OUR INDIAN RUNNER DUCKS were the grand champions again at Iowa State Fair. Stock for sale. F. L. Reinhard & Son, Ottumwa, Iowa.

Indian Runners Pencilled, mated trios, $5.00. Drakes, $1.50 to $2.00. Address Nishna Collie Kennels, Oakland, Iowa.

of coarsely ground corn and oats is good. To this, though, must be added either milk, or meat in some form, together with green feed of some sort.

The eggs usually do not prove to be as largely fertile this early in the season, but barring accident almost every chick lives.

MOST PROBABLY TUBERCULOSIS.

To the Editor of The Homestead:

A correspondent, Mrs. E. E. S., of Waukon, Iowa, sends in a query in regard to a disease that has appeared in her poultry yard. Her inquiry is worthy of special, note, as she made a post-mortem examination before sending in her inquiry. If all who desire information would do this, the answers could be much more intelligent and satisfactory. In this case it would have been impossible to make a correct diagnosis without this knowledge of internal conditions.

The only external symptom given by our correspondent is that the combs of the ailing birds turn pale. But the post-mortem reveals a most significant condition—the presence of yellow spots upon the liver. Doubtless there was a loss of flesh and weakness accompanying the pale combs. All these taken in conjunction with the nodules upon the liver, point very strongly toward tuberculosis. This disease, as most know, is caused by the presence of a special germ. The only way in which tuberculosis can be positively affirmed is by having expert examination of the case. The microscope in skilled hands, can determine just the kind of germ that is doing the mischief. If it is the germ of tuberculosis, the expert microscopist recognizes it. But so well are the other symptoms understood that in such cases as the one now under consideration we may strongly suspect tuberculosis.

Tuberculosis is a germ disease, produced by a specific bacillus, highly contagious, taking root most readily upon constitutionally weak or rundown stock, or weakened in any way. In mature fowls it often develops from persistent colds which do not run into roup or kindred diseases.

Fowls in vigorous health and condition may escape contagion, but where the germ is present there is always danger of contagion for any fowl that is "under the weather" in any way. The larger the proportion of the flock affected, the greater danger of a general infection. This is one of the gravest troubles the poultry keeper has to face, Hence some detailed information regarding it may be helpful.

Young chicks are sometimes attacked by this disease. In their case, however, the tubercles are most commonly found in the lungs. In adult fowls the disease is more apt to be general, and the liver and abdominal organs show a large percentage of tubercles. To quote from Dr. P. T. Woods on this subject:

With adult fowls the disease may show itself in many ways, or may be present unsuspected. On general principles suspect cases of coughs and colds which do not yield to treatment, and diarrhea which is not checked by the ordinary methods of treatment. Tubercular fowls, when well advanced, usually have a persistent diarrhea, pale combs, listless, sleepy expression, and lose weight. Suspect all tumors and ulcers containng "cheesy matter."

Another physician—Dr. W. R. Fisher—has given so clear a description of a tubercular bird, that we place it here for the benefit of your readers:

The first thing to be noticed about a bird that is sick in this way is diminished activity. It moves about with less energy than usual, and if you pick up the bird you will notice probably a loss in weight. As the diseases progresses the emaciation advances rapidly, there is diarrhea, the bird becomes listless, sluggish, and finally stupid, and death takes place from exhaustion. Two noticeable features remain to be mentioned. One is the persistent thirst which results from the fever that always accompanies tuberculosis of the internal organs, and the other is the desire for food which, in some cases, continues to the last. When you meet with this sequence of symptoms you may be pretty sure about the nature of the ailment that you have to deal with, and yet there is no one of them alone that will unmistakably point out the disease. It is the picture that they present which must guide up in deciding in a doubtful case.

Having decided that the trouble in hand is tuberculosis, what is the remedy? There is no cure for the malady. As quickly as possible put the bird out of its misery, and, if possible, burn the carcass. Burying, however deeply, is too often disturbed by investigating canines to be safe. There may be cases of tuberculosis where the recuperative power of the bird is such that it may overcome the germ. But even in this case the fact that the tendency to the disease will develop the offspring, renders the recovered bird a menace. The only way is to get rid by means of the hatchet of every fowl that is at all suspicious. A tuberculous bird, even in the early stages is unfit for food, and the eggs are also under ban.

What then should be done in a case where what may be strongly suspected as tuberculosis has become implanted in a flock? The best answer to this question, and one which comes with authority, is given by J. R. Mohler, chief of the pathological division of the bureau of animal industry, was written in regard to a case similar to the one we have under consideration. It may seem hard advice to follow, but it is the only way to get rid of this malignant malady:

The eradication of tuberculosis from your premises can only be attempted when all the birds have been killed. Any fowls that may be left are liable to have tubercular ulcers from which the bacilli may be constantly scattered. There should subsequently be no attempt to save any birds from a tuberculous flock, as there is no way of diagnosing early cases of the disease except after death. When all the birds have been killed and burned or buried deeply, the premises should be thoroughly disinfected. The manure should be collected and saturated with a 5 per cent solution of carbolic acid mixed with quick lime or spread on fields and plowed under. The floors and woodwork of the poultry houses should be washed with boiling water, or with a hot 5 per cent solution of carbolic acid. All feeding or watering troughs and all nests should be treated in the same way. Yards that have been used for penning fowls should be sprinkled with the carbolic acid solution.

The premises should be exposed to air and sunlight for a month after they have been cleaned and disinfected before new poultry is purchased. Covering the roosts and walls with lime wash, to a gallon of which four ounces of crude carbolic acid have been added, just before fresh birds are introduced to the houses, will be found very advantageous.

Not very encouraging, is it? Yet there is a bright side to the picture. Supposing this expert knowledge had not been placed at the disposal of poultry folk by a beneficient government, we might struggle along with our epidemics and perplexing problems without having the way of escape placed at our disposal.

Mrs. S. B. Titterington.

EARLY CHICKS.

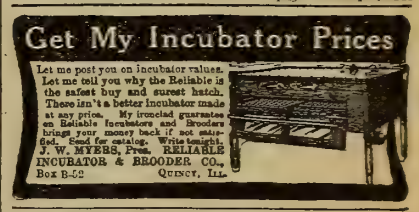
To the Editor of The Homestead:

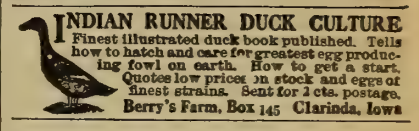
There is a lot of things that can be done now that will be a great help to the one whose intentions are to raise chickens the coming season. The old brood coops and feeding pens can be repaired or new ones built these wintry days while we are idle. Some wait until the rush of spring to attend to these things and find themselves with more work on hand than can be well done. Especially this is often the case where one lives on a farm.

There are so many other things that must be done that many neglect the most vital points in raising the early-hatched brood successfully. Good, clean, roomy brood coops and good, substantial feeding pens are necessary to insure success with the early chick. If one does the hatching with hens there will be need of a great many brood coops in which to keep the mother hen and little chicks. These coops can easily be made now and be ready when the hatching chick season arrives.

When making coops for our early chicks, we make a floor of plank, just a little larger than the coop. The coop is placed upon this platform, which can be removed and cleaned when necessary, besides when using floored coops there is no danger of the chicks being eaten by rats. The coop can be lifted off and the floor aired on sunny days. When warm weather arrives we remove the coops from this floor and allow the chicks to roost upon the cool earth. We think this is better for the brood on hot nights, besides the coops can be moved to a clean place every few days.

If the hens and chicks must be kept in the same yard with the other fowls a feeding pen for the little ones is a necessity, for the older ones will get the bigger part of the food if they be fed together. Our feeding pens are made of wire, which is nailed to a wooden frame made with four corner posts, with strips nailed at top and bottom posts. The wire is tacked securely to these wooden strips at top and bottom of pen. The chicks, with such a feeding pen, can be fed without being trampled by the older fowls. Later in the season when these early chicks are larger, and we have other young broods coming off, we

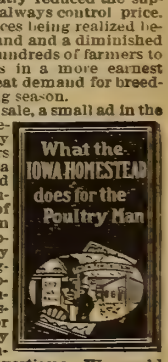




Good Prices for Your Poultry

THE shortage and high price of meats have led to a greater consumption of poultry. This and the cold weather last spring which cut down the spring hatch have greatly reduced the supply. Demand and supply always control price. Consequently, the high prices being realized because of an increased demand and a diminished supply are encouraging hundreds of farmers to go into the poultry business in a more earnest manner. One result is a great demand for breeding stock during the coming season.

If you have anything for sale, a small ad in the columns of The Iowa Homestead will find you ready buyers. The 140,000 farmers of Iowa, Illinois, Nebraska and sister states who read The Iowa Homestead regularly have, on account of their increasing interest in poultry, grown to greatly appreciate its regular poultry department which is recognized as the reliable, progressive and practical authority on farm poultry raising of this territory. For years, hundreds of poultry breeders have been patronizing The Homestead as advertisers. We would like to send you a little booklet of testimonials telling about the results these advertisers have received. No obligation attached. It is free to all our friends and every poultry raising farmer is our friend.



Poultry Advertising Department,
IOWA HOMESTEAD, Des Moines, Iowa

PLYMOUTH ROCKS.

EVERGREEN LAWN FARM
M. HUMMEL, Proprietor, MONROE, IOWA,
Has for sale 200 Barred Plymouth Rocks with large bone, finely barred, from high-scoring, first-prize-winning stock. We won 37 prizes at our last showings.

BUFF ROCKS
SPECIALTY breeder and exhibitor for 15 years. Choice cocks, hens and cockerels for sale. Write stating just what you want, what price you will pay and I am sure I can please you for I have the quality. Address M. E. KRAFT, Brooklyn, Iowa.

80 Very Choice Barred Plymouth Rock
COCKEREL-BRED cockerels and pullets for sale at from $2.00 to $6.00. Can furnish pens not related. Mrs. L. C. Reece, R. 1, Box 21, Prescott, Ia.

BUFF PLYMOUTH ROCKS
BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address J. O. KOERTH, - Ionia, Iowa.

WHITE PLYMOUTH ROCK COCKERELS
WEIGHING 6 to 9 pounds each, with good color, nice yellow legs, good combs and eyes. They are good enough to show. At $2, $3 and $5 each. Address Chas. L. Berry, R. 6, Iowa City, Iowa.

White Plymouth Rock Ckls.
SEVEN to eight pounds, $1.00 to $1.50 each. Address M. A. McWilliams, Wall Lake, Iowa.

Big Barred Rock Cockerels
200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address Theo. Martin - - Bellevue, Iowa.

WHITE ROCK COCKERELS FOR SALE
SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Berwick, Iowa.

WHITE ROCK COCKERELS
STRICTLY high-class. Now is the time to place your order for cockerels. Priced at $2.00 to $3.00 each. Money back if not suited. Address, JOHN W. HOUSELOG, Bellevue, Iowa.

"PARTICULAR" BARRED PLYMOUTH ROCKS
THE winning and laying kind. Cockerels $2.00, $3.00 and $5.00 each. Large bone, clear color, deep, narrow barring. Mated trios $5.00 and $8 00; pens $10-$14. Birds returned at my expense if not satisfactory. Address J. M. Detwiler, R. 2, Dunlap, Iowa.

60 BUFF ROCK COCKERELS for SALE
at $1.50 to $5.00. Some splendid birds. Also choice pullets. Address Mrs. P. J. Eggers, Denison, Iowa.

Barred Rock Ckls. Choice ringlet barring, large birds and of heavy laying strain. $1.25 to $2.00. Few Rouen drakes also. Address C. W. Francisco, Inland, Nebraska.

Buff Plymouth Rock Cockerels from high-scoring, trap-nested winter layers with show records. Good quality. Ex. stock and M. B. turkeys. M. Henningsen, Dike, Ia.

BARRED PLYMOUTH ROCKS FOR SALE
200 B. P. Rocks that will please in quality and price. Large and evenly barred. Try us for a square deal. C. G. GOOD, Ogden, Iowa.

100 BUFF R. COCKERELS Single birds $2.00, 3 or more $1.50 ea. Bred by prize-winning stock. Mrs. J. F. Crase, R. 2, Redfield, Ia.

FOR SALE.---White Rock Cockerels. Price $1 to $3
each. Address Mrs. Myrtle Carter, Panora, Iowa.

PURE-BRED White Plymouth Rock cockerels, Fishel strain, farm raised, $1 each. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

Buff Rock Cockerels Farm raised, fine large birds of good quality. From utility stock. Write for prices. R. H. Roberts, Clear Lake, Ia.

BARRED Rock cocks for sale. Prize winners. W. S. Russell strain direct. Price reasonable. Writh for prices and scoring. Mrs. Grace Allen, Pleasanton, Kan.

BARRED ROCKS 200 cockerels, sired by $100 bird. Low prices. Catalog. Address Wm. Gay, Essex, Iowa.

BUFF ROCK Cockerels $2. $1.50 each in lots of two or more. Bred from state fair and state show winners. Address C. & C. T. Van Lint, Pella, Iowa.

W. P. ROCK Cockerels, White Holland turkeys and Embden ganders for sale at reasonable prices. S. M. Compton, R. 3, Newton, Iowa.

BARRED Plymouth Rocks, largest type, best breeding, heavy laying strain. The poultry for the farmer. Mrs. S. M. Thompson, Birmingham, Ia.

BARRED Plymouth Rock Ckls. Large, well barred, healthy birds. Good laying strain. Reasonable price. Mrs. J. H. Heilman. R. 4, Holstein, Ia.

Buff Plymouth Rock Cockerels at $1.50 each and pullets at $1 each. Address O. N. Woody, R. F. D. 3, Newton, Iowa.

White Plymouth Rock Cockerels. A choice lot for sale at farmers' prices, Fishel strain. Write your wants. L. L. Goreham, Odebolt, Ia.

600 BARRED ROCKS Both matings. Bred from 1st prize winners. They will suit you. A. D. Murphy & Son, Essex, Ia.

Barred P. Rocks A fine lot of big ckls., even, narrow, deep barred. Also pullets and hens. Best breeding and quality. Orville Jones, York, Neb.

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

W. P. Rocks. Best layers and payers; exhibition and utility stock for sale. Blue Ribbon winners. Write for prices. F. E. Ristrim, Stanhope, Ia.

just raise the front side of pen, propping it up high enough for the chicks to get under, but not high enough for the hens to enter, after feeding the larger-sized chicks we lower the pen and feed the younger ones. We keep the feeding pens in as shady a place as possible, with fresh water in shallow troughs so that the chicks can get a cool drink at any time when the weather is hot. All preparations which are made now will greatly diminish the labor of chicken raising when spring approaches. The busy season will soon be upon us and we should be ready. S. E. M.

POINTERS.

—White Winged Buff or Bourbon Red turkeys are offered for sale by Wm. Oakland, Blairsburg, Iowa, in his advertisement on page 25.

—C. H. Drake, Hazleton, Iowa, is quoting prices per dozen on Single Comb White Leghorns in his advertisement that appears on page 25.

—J. F. Wilson, Downey, Iowa, can furnish White Wyandottes in pens not akin. Prices on pullets and cockerels will be found quoted in the advertisement on page 23.

—Pure White Plymouth Rock cockerels, farm raised, are advertised for sale by Mrs. Lorenz Peterson, Tama, Iowa, in her advertisement that appears elsewhere on this page.

—Prices on choice Rose Comb Brown Leghorn cockerels will be found stated in the advertisement of Mrs. Nelson Hyde, Manson, Iowa, that appears on page 25 of The Homestead.

—The advertisement of J. F. Davidson, Lamont, Iowa, offering for sale Barred Plymouth Rock cockerels and pullets from utility strains with size and color will be found on this page.

—Large, heavy-boned Mammoth Bronze turkeys with perfect markings are advertised for sale by Mrs. J. C. Cannon, Crawfordsville, Iowa, in her advertisement that appears on page 25 of The Homestead.

—"I have the best lot of Light Brahma cockerels that I have ever raised, being larger and more matured at this time of the year," writes Frank A. John, Bedford, Iowa, whose new advertisement appears on page 25.

—E. B. Foster, Caldwell, Ohio, is offering 1912 hatched turkeys for sale in his advertisement that appears on page 25. Mr. Foster's old gobbler weighs fifty pounds and his old hens weigh from twenty-seven to thirty-three.

—Mrs. J. A. Campbell, Manning, Iowa, is offering Mammoth Bronze turkeys, Single Comb White Orpington and Barred Plymouth Rock cockerels for sale in her advertisement on page 25. She writes that her turkeys are early hatched and large.

—Chas. L. Berry, Iowa City, Iowa, has White Plymouth Rock cockerels weighing six to nine pounds, with good color, nice yellow legs, good combs and eyes that he is offering for sale to Homestead readers at prices named in his advertisement on this page.

—Fine-looking pure-bred Rose Comb Rhode Island Red cockerels are offered for sale by Miss Maggie Henning, Ira, Iowa, in her advertisement that appears on this page. These birds are large boned, heavy weight and are scored. Reasonable prices will be quoted.

—Mrs. Myrtle Carter, Panora, Iowa, is offering White Plymouth Rock cockerels for sale in her advertisement on this page. She writes: "These cockerels are from an excellent laying strain and I do not think they can be duplicated at the prices I am quoting on them."

—Speaking of her White Wyandotte cockerels, Mrs. T. W. Glass, Sac City, Iowa, in furnishing copy for her advertisement on page 23, writes: "I have a fine flock this year, the best I have ever raised. My birds are healthy, big and of fine color. I have a few Muscovy ducks yet for sale."

—We would like to call attention to the card of C. G. Good, Ogden, Iowa, who is advertising about 200 of the choicest Barred Plymouth Rock cockerels that his excellent flock has ever produced. These are from the very best stock and from the foundation stock most rigid selection has continually mated the very best birds until the flock now stands high indeed. People dealing here will be assured of securing every cent of worth for their money.

—S. M. Compton, Newton, Iowa, in furnishing copy for advertisement appearing on this page, writes: "I have a limited number of birds named in the advertisement which I will offer at prices that should make quick sales. The turkeys are sired by a twenty-eight-pound tom and are from hens that weigh from fourteen to sixteen pounds. I have about twenty-five nice White Plymouth Rock cockerels, but no hens or pullets for sale. Write me your wants and I will try to please."

—Mrs. P. L. Carroll, Hampton, Iowa, in furnishing copy for her advertisement offering her entire flock of Barred Plymouth Rocks and Mammoth Bronze turkeys for sale, writes: "I have some very choice birds, both in Barred Rocks and Mammoth Bronze turkeys of both sexes for sale. I have been a breeder of Barred Plymouth Rocks for sixteen years. The Homestead has sold all the stock I could produce and almost every year I have had to return money, as I received more orders than I had stock to fill."

—Mammoth Bronze turkey toms and hens are advertised for sale by Mrs. J. C. Martin, Manning, Iowa, in her advertisement on page 25.

—Scored and unscored Barred Plymouth Rock cockerels are advertised for sale by Mrs. S. W. Miller, Truro, Iowa, in her advertisement on this page.

—Peter M. Sullivan, Brandon, Iowa, has some big-boned, strong, vigorous Bourbon Red turkeys that he is offering for sale in his advertisement on page 25.

—Herm C. Ransom, Ionia, Iowa, can supply Homestead readers with Silver Laced Wyandotte cockerels, hens and pullets as per advertisement on page 23 of The Homestead.

—Fine young Mammoth Bronze toms from scored hens are offered for sale by the Clover Hill Stock Farm, Kellerton, Iowa, in their advertisement on page 25.

—High-scoring and prize-winning Rose Comb Rhode Island Red cockerels are offered for sale in the advertisement of T. H. Thompson, Kanawha, Ia., that appears on this page.

—A few nice Bourbon Red turkey toms of good color, large bone and healthy are offered for sale by W. M. Peterson, Route 3, Corning, Iowa, in his advertisement on page 25.

—W. W. Forbes, Jefferson, Iowa, has Rose Comb Rhode Island Red cockerels from prize-winning, good laying strains that he can furnish Homestead readers as per advertisement on this page.

—"My White Wyandotte cockerels are of good shape, big bone, fine color, yellow legs, bright eyes and strong, healthy birds," writes Mrs. George F. Pierce, Sac City, Iowa, in instructing us to insert her advertisement which will be found on page 23.

—Mrs. J. H. Richardson, Bristow, Ia., in furnishing copy for her White Holland turkey advertisement appearing on page 25, writes: "I have the finest flock of turkeys that I have ever raised. They are of the large-boned type and are perfectly healthy."

—In furnishing copy for her advertisement offering Barred Plymouth Rock cockerels for sale, which appears on this page, Mrs. W. F. Bohlander, Avoca, Iowa, writes: "We entered four birds at the Pottawattamie County Fair and were awarded first on hen, second on cock, first on cockerel and second on pullet."

—Homestead readers who wish to purchase good Single Comb Rhode Island Reds should read the advertisement of L. G. Johnson, Box H, Steamboat Rock, Iowa, that appears on this page. Mr. Johnson has a few fine breeders left on which he is quoting a very liberal price in the advertisement referred to.

—"My turkeys are large, vigorous birds, well marked, fine carriage and all around good ones," writes Samuel Locke, Selma, Iowa, in furnishing copy for his advertisement on page 25. "Old stock scores from 95 to 97. The tom that heads the flock is sired by a prize winner and there are two prize-winning hens in the flock. Prompt shipment at reasonable prices will be made."

—Mrs. L. H. Davidson, Algona, Iowa, is offering Buff Wyandotte cockerels for sale at very low prices in her advertisement on page 23. Some of these fowls are nearly clear buff and will make excellent breeders. As she only has about twenty for sale Homestead readers had better write her soon in regard to them. Address Mrs. L. H. Davidson, Algona, Iowa, and mention The Homestead.

—Readers of The Homestead will find it to their advantage to look up the advertisement of Fred Post, Moulton, Iowa, proprietor of the Hillsdale Stock Farm, that appears on page 25. He is offering for sale White Holland turkeys, Barred Plymouth Rock chickens and Pekin ducks. Parties wanting extra large, high-scoring, prize-winning stock of heavy weight should write Mr. Post for further information.

—Ethel H. Shaw, Monroe, Iowa, is offering White Wyandotte cockerels, White guineas, White Holland turkeys and Toulouse geese in her advertisements, one of which is found in the Wyandotte and the other in the miscellaneous column of this department. She has won premiums at the leading Iowa shows, including the state show and the Iowa State Fair. Write her, as she states her prices will be right.

—John W. Houselog, Bellevue, Iowa, writes that he still has a choice lot of White Plymouth Rock cockerels for sale, but is completely sold out of pullets and hens and could have sold 200 more. He has had eight years' experience with White Plymouth Rocks and will guarantee to please or refund the money. These birds are being priced well worth the money and to hesitate may lose you a bargain, so better order now. See advertisement on this page.

—Barred Plymouth Rock cockerels that have the quality, also some Golden Wyandottes are offered for sale by Judge J. L. Todd on page 25. Mr. Todd has been a breeder of Barred Plymouth Rocks for thirty-five years and has been judging poultry shows and fairs for over twenty-three years, so knows a good bird when he sees it. He has some very choice Barred Plymouth Rock cockerels with extra good narrow barring. Readers of The Homestead need not hesitate to send to him if in need of birds, as he will treat you right. If you want any private scoring write him and he can do it for

PLYMOUTH ROCKS.

250 BARRED PLYMOUTH ROCKS FOR SALE Large-boned, nicely marked, sires scoring 90 to 92¼ in show. A few good M. B. turkeys for sale. Large boned and nicely marked. In seven show rings I won 38 1st, 19 2d, 4 3d, 3 4th, 2 5th. Nothing but first-class stock shipped. Prices reasonable. Address J. W. Wagner, Monroe, Iowa.

BARRED ROCK COCKERELS
AS good as they grow. All bred from our Des Moines and state show winners. Heavy bone, fancy color. Prices $2.00 to $5.00. Satisfaction guaranteed. Address MASON C. OGG, Monroe, Ia.

BARRED PLYMOUTH ROCK cockerels and pullets. 100 birds from utility strains with size and color to suit you. Customers satisfied. Write me now. J. F. Davidson, Lamont, Ia.

BARRED ROCK COCKERELS Well bred, fine laying strain, $1.00 to $2.00 each. Mrs. W. F. Bohlander, Avoca, Iowa.

B. P. ROCK COCKERELS FOR SALE. Scored and unscored. Write for prices. Address Mrs. S. W. Miller, Truro, Iowa

WHITE ROCK cockerels and pullets $1.00 each. Scored birds scoring 90 to 94, $1.25 to $2.00, from prize winners. Mrs. G. W. Shaw, Monroe, Iowa.

PURE W. P. ROCK COCKERELS for sale, farm raised, very fine birds, $1.25 to $1.50 each. Mrs. Lorenz Petersen, R. 2, Tama, Iowa

RHODE ISLAND REDS.

ROSE COMB R. I. RED COCKERELS
BRED from prize-winning, good laying strains. Prime birds, farm range, closing out $1.50 to $2. Special reduction on four or more. Write today. W. W. Forbes, Box 441, Jefferson, Iowa.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

R. C. Rhode Island Reds
COCKERELS FOR SALE. High score and prize-winning stock. Write for particulars. Prices $1 to $5. T. H. Thompson, Kanawha, Iowa.

Farm Range Rose C. R. I. R.
COCKERELS $1.50 to $2.00; pullets at same price. The kind that lay at all times. Good individuals. J. B. HEISEL, Grinnell, Iowa.

S. C. R. I. RED COCKERELS
A FEW fine breeders left at $2 up. If you need some good even Reds, write today. Address L. G. Johnson, Box H, Steamboat Rock, Ia.

S. C. Reds, Brilliant Red Strain
LARGE bone, vigorous cockerels, $2, $3 and $5 each and up. Females $1 to $5. Trios and pens, $10 to $25 Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

OUR BLOOD RED STRAIN S. C. Reds were the big winners again at Iowa State Fair. Choice cockerels, hens and pullets to offer. Red eyed, big boned, rich, even, glossy birds. F. L. Reinhard & Son, Ottumwa, Ia.

ROSE COMB REDS Nothing else. Good healthy farm raised cockerels $1.50 and $2.00 each for choice birds. Address B. F. Bentley, R. F. D. 2, Boone, Ia.

R. C. R. I. RED COCKERELS 200 BIG-BONED Cockerels, Scored and unscored. Reduced prices on early orders. F. N. Blake (successor to Harry C. Blake) Maquoketa, Ia.

R. C. R. I. RED COCKERELS Big bone, Farm range. $1.50 each if taken at once. Mrs. O. E. Barrett, Ross, Iowa.

REMOVAL SALE Sold my place and will sell S. C. R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

CHOICE R. C. R. I. RED COCKERELS Deep red. Early hatch $1.50 up. Address Earle Welch, Kanawha, Iowa.

R. I. REDS (Both combs) Exhibition and breeding males and females for sale at $1.50 and up. Address W. I. Mouser, R. 5, Red Oak, Iowa.

TOP NOTCH S. C. R. I. Red cockerels. Large, dark red birds at $1.00 and $1.50 each. W. E. Briggs, Route 2, Woodbine, Iowa.

R. C. R. I. Red ckls. Fine looking, pure-bred birds, large boned, heavy weight, scored. Prices reasonable. Miss. Maggie Henning, R. 1, Ira, Jasper Co., Ia.

ROSE COMB RHODE ISLAND REDS of quality, size and red colon ckls. only at right prices. Address Ira Stetzel, Ross, Iowa.

SCORED ROSE COMB Rhode Island Red cockerels and Indian Runner Drakes. Address Archie L. Stark, Pilot Mound, Ia.

DEEP RED R. C. R. I. Red eggs for hatching after March 1st. One pen of 7 pullets and ckl. S. C. Reds for sale. Mrs. Charles Belz, Conrad, Iowa.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

MY ENTIRE FLOCK OF R. I. RED PULLETS $1
each. Cocks $1.50 and $2. F. B. Dann, Dewitt, Iowa.

A NUMBER of fine R. C. R. ckls. Also trios in both R. and S. comb. A number of lay house pullets $12 a doz. Inquire of Mrs. A. L. Morrill, Pontoosuc, Ill.

CHOICE S. C. R. I. RED COCKERELS
Write your wants. Mrs. Sophia Rader, Laurel, Iowa.

ROSE COMB RED COCKERELS FOR SALE. Bred from prize-winning stock. H. E. Huston, Iowa Falls, Ia.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls, and pullets for sale. W. W. Vaughn, Marion, Iowa.

CORNISH INDIAN GAMES.

FOR SALE CORNISH Indian cockerels, pullets and hens, prices right. Mrs. J. N. Cooper, R. 2, Red Oak, Iowa

TURKEYS.

BOURBON RED TURKEYS
LARGE, heavy-boned ones. Toms $5. Express prepaid through Jan. Harry Sprague, Midland City, Ill.

FOR SALE Pure-bred M. B. Turkey toms and hens choice of a flock of 160 sired by a 40-lb. tom large healthy birds. R. H. Coyle, Cascade, Ia.

M. B. TURKEYS Young stock sired by 1st prize cockerel Ia. State Fair, 1911. Young toms $5. Females $3. Lots of vigor. Sterling Martin, Melrose, Iowa.

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

FOR SALE---Mammoth Bronze Turkeys Toms $5. Hens $3. At home. Mrs. J. C. Martin, R. 5, Manning, Iowa.

BOURBON RED TURKEYS Hens, $3.00. Toms, $5.00. MRS. M. MOSS, - Tipton, Iowa.

MAMMOTH BRONZE TURKEYS S. C. White Orp. cockerels, Barred Rock cockerels. Mrs. J. A. Campbell, Manning, Ia.

M. B. TURKEYS Young toms as good as the best $5.00 each. Satisfaction guaranteed. F. J. Sexsmith, R. F. D. 2, Orient, Iowa

FOR SALE Pure-bred, white winged, Buff or Bourbon Red turkeys. Address Wm. Oakland, Blairsburg, Iowa.

80 W. Holland turkeys, fine, healthy birds. Can furnish trios unrelated. Write me your wants. Mrs. C. H. Schmidt, R. F. D. 1, Tripoli, Iowa.

BOURBON RED TURKEYS Toms, $5.00. Hens, $3.00. Eggs in season. Mrs. Allie Davis, Saline, Mo.

BOURBON RED TOMS at $5.00 each. Large, healthy big-boned kind with fine plumage. Address Mrs. Al. Minish, Voorhies, Ia.

MAMMOTH BRONZE TURKEYS Large, heavy-boned birds with perfect markings. Mrs. J. C. Cannon, Crawfordsville, Ia.

BOURBON Red Turkeys. A few nice toms for sale. Good color, large bone and healthy $4.50 each. W. M. Peterson, Route 3, Corning, Iowa

FOR SALE Fine young M. B. toms from scored hens. Good size May birds. Clover Hill Stock Farm, Kellerton, Iowa

For Sale Bourbon R. Turkeys Large, healthy birds. For prices write to Mrs. J. N. Thomas, Route 3, Box 54, Hazleton, Ia.

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. Foster, Caldwell, Ohio.

White Holland Turkeys for sale. Big-boned, vigorous birds, reasonable prices. Mrs. J. H. Richardson, Bristow, Ia.

MAMMOTH BRONZE TURKEYS from prize winners. Embden ganders. Address Samuel Locke, Selma, Ia.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. LONGWORTH'S, Polk, Iowa.

TWO-YEAR-OLD M. B. TURKEYS. HENS $5 and gobblers $8. Write F. B. Dann, Dewitt, Iowa.

BOURBON RED TURKEYS FOR SALE. Big boned, strong and vigorous. Address Peter M. Sullivan, Brandon, Iowa

PURE-BRED WHITE Holland Turkeys for sale. Am leaving farm; wish to close out soon; prices right. Mrs. C. E. Conger, Bristow, Ia

M. B. TURKEY toms and hens of good size, quality and standard markings, sired by a 40-lb. yearling tom. M. Henningsen, Dike, Iowa.

M. B. Turkeys White Wyandotte ckls. Pekin ducks. Prices right. Address Mrs. A. Kitson. Audubon, Iowa

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3,4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

EXTRA BLACK LANGSHAN COCKERELS for sale, $2.00 each or 3 for $5.00. Eggs in season. Mrs. Sarah F. McKeen, Route 1, Sac City, Iowa.

BLACK LANGSHANS Winners at Keosauqua and Ottumwa, 1912. Choice ckls. $1.50 and $2.00. Bert A. Randell, Mt. Zion, Iowa.

EXTRA big-boned, glossy, black-eyed, black Langshan ckls., scored 91 to 95, $2, $3.50, $5 ea., pullets $15 doz. Guar. Osterfoss Poultry Farm, Hedrick, Ia.

BLACK Langshan ckls. scoring from 90 to 94½; winners at Iowa State Fair. These birds are large, heavy-boned. Address A. Dearinger, Reasnor, Iowa.

BIG BLACK LANGSHAN Cocks and cockerels at $1.75 and $2 each. Eggs in season. Satisfaction guaranteed. A. H. Koch, De Soto, Iowa.

DOGS.

SCOTCH COLLIES
OF extra choice blood lines, none better anywhere, and nicely marked. We have a number ready to ship, all of good ages. For a bargain in strictly high-class dogs, write us. A. A. Martin & Son, R. D. 4, Box 107, Lincoln, Nebraska.

SCOTCH COLLIE PUPPIES
HIGH-class puppies, the best blood in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. T. A. STEVENSON, SHANNON CITY, IOWA

Collies Choice pups and brood bitches, trained drivers. Sales list free. AIREDALES, for hunters, watch dogs, companions, have no superiors, state your wants. P. L. Savage, St. Charles, Ill.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 127, Oakland, Ia.

FOX TERRIERS All ages, best rat, pet or watch dog on earth. Some bred females. T. H. Kaldenberg, 1401 Main St., Pella, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

you. Address J. L. Todd, R. 3, Des Moines, Iowa.

—M. E. Edwards, Walnut, Iowa, whose advertisement of Single Comb Rhode Island Red cockerels appears on page 24, writes: "I have the finest flock of Reds I have ever raised. I do not show them for fancy points, but breed for eggs and hardiness and I surely have a fine laying bunch of Rhode Island Reds."

—Mr. Longworth, Polk City, Iowa, whose advertisement appears on this page, writes that his Mammoth White Holland turkeys are the finest he has ever had. They are large, vigorous and healthy. He won first on cockerel and pullet at the state fair, as he has done several times before. The sire of his turkeys was a first premium winner.

—The advertisements of Mrs. G. W. Shaw, Monroe, Iowa, will be found under the Plymouth Rock and Indian Runner duck heads in this department. Mrs. Shaw writes that she has an extra fine lot for Homestead readers this year and that she has won at a number of the leading shows and is making prices on White Plymouth Rock cockerels and pullets and Indian Runner ducks that will move them.

—Mrs. Sarah F. McKeen, Sac City, Iowa, writes: "I have never seen as beautiful a flock of Langshans as I now have. I have kept no others for ten years. My birds are from the very best high-scoring stock that I could find. I select my hens with care, choosing heavy, large ones with the best points I can find. They are extra layers and the flock is strictly healthy." See advertisement on this page.

—J. D. Smith, Montezuma, Iowa, in sending in new advertisement which appears on this page, says: "I have some fine Bronze turkeys and Pekin ducks for sale. The turkeys are of a rich, bronze color throughout, of big frame and in the best of health. The ducks are of the big, creamy white stock and sure to please. I have shipped to several states this winter and every bird makes a satisfied customer. If in need write at once, mentioning The Homestead."

—Mrs. H. J. Hess, Waterloo, Iowa, whose new advertisement appears on this page of The Homestead, writes: "The Mammoth Bronze turkeys I am offering are large, heavy-boned birds with splendid plumage. My stock in former years won many premiums for both my customers and myself, and the birds I am now offering are the same strain and of splendid quality. In Barred Plymouth Rock cockerels I have some well-marked birds, narrow, even barring. They are large, heavy-boned and heavy-weight birds. I am making prices on this stock that are low, quality considered."

—"We have as good a flock of cockerel mating Barred Plymouth Rocks as there is," writes Mason C. Ogg, Monroe, Iowa, in furnishing copy for advertisement found on page 24. "They never fail to attract favorable comment. We have furnished customers with prize winners from both our stock and eggs. At Des Moines shows in the last few years we won first, second, third, fourth and fifth on males. At the recent Des Moines show we won third on cockerel mating pen, fourth on cock and fifth on cockerel, winning a place with every entry made. Our winners were bred and raised by us. We have always pleased our customers. Patrons will save time by sending money and stating just the sort of birds desired. We will send the very best we have for the price and ship subject to approval. We never send out anything but first-class breeding stock, both as regards size and color."

—Carmichael & Crouse, proprietors of the White Wing Poultry Farm, Perry, Iowa, in sending advertisement found on page 23, write: "We have been quietly developing our White Wing strain of White Orpingtons and White Wyandottes for years. The Orpingtons are from a $350 pen of Kellerstrass birds and a $100 Lawrence Jackson cock. The Wyandottes are from a heavy-laying strain and possess exceptional show qualities as well. We only took time this winter to show two cock birds, but we won first premium for best White Orpington cock in the great Mid-West Poultry Show in Des Moines. We have a number of his cockerels for sale as well as many from other pens equally as good and at reasonable prices. We have a 3,000-egg incubator and a 4,000 chick brooder and we will be able to supply the demand for day-old chicks, eggs for hatching and breeding stock the coming season."

—J. W. Wagner, Monroe, Iowa, in furnishing copy for his advertisement that appears on page 24, writes: "I have a fine lot of Barred Plymouth Rocks and Mammoth Bronze turkeys to furnish Homestead readers now. I am going to sell them at reduced prices for two weeks. Here are a few of my last winnings at Monroe: I won first, third, fourth and fifth on pullet; first on cock; second on hen; third on cockerel; first on pen; special for best ten; silver cup for best pen, and silver cup for best colored female. At Newton I got first and second on cockerel, first and second on pullet, first and second on pen, second on cock, special for largest exhibit, one breed and special for best exhibit over all breeds. At Mitchellville I won first on cockerel, second on cock, second and fourth on pullet, second on pen, special for best colored cockerel and special for best shaped cockerel. Every one of these winnings are birds of my raising. I have already won several prizes for my customers in shows this last fall and winter."

LEGHORNS.

A Choice Lot of Rose Comb
BROWN LEGHORN cockerels for sale at Pike Timber Stock Farm. EGGS IN SEASON. DAVENPORT & MACK, Belmond, Iowa.

SINGLE COMB BROWN LEGHORN
Cockerels and hens. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. J. A. PENN, Phone 87, ALTA, IOWA

S. C. W. LEGHORNS Cockerels for sale. Vigorous, free range stock. Scored birds $1.00 to $5.00. Eggs in season. Address W. C. Kimball, R. 1, Shellrock, Iowa.

HIGH SCORE S. C. B. Leghorn ckls. 91 to 93½. Some unscored. My price is low. AUG. SCHRAGE, Bristow, Ia.

CHOICE heavy, laying strain, S. C. W. Leghorns at $15 to $18 per doz. These are choice breeding stock but as we are moving to Lisbon, Iowa, must sell. Address C. H. DRAKE, Hazelton, Iowa.

100 FARM RAISED S. C. W. Leghorn ckls. for sale. Fine, healthy birds. $1 each or 6 for $5. A. R. Cochran, Anita, Cass county, Iowa.

CHOICE ROSE COMB BROWN LEGHORN Cockerels, fine quality, $1 each, six for $5. Mrs. Nelson Hyde, Manson, Iowa.

S. C. W. LEGHORNS Young's strain. Ckls, hens, pullets, $1 up. Shipped on approval. Chas. J. Mackay, Bx. 523, West Liberty, Ia.

Single Comb Brown Leghorn Cockerels for sale at $1.00 each or six for $5.00. Address Risner Bros., Noble, Iowa.

S. C. B. Leghorn cockerels and hens. Rhode Island Red Single Comb cockerels. M. B. turkeys, fine. Mrs. Geo. Manning, Birmingham, Iowa.

S. C. W. LEGHORN Ckls. unscored $1, others scoring to 94½ points. A few prize-winners for sale. Mrs. Wilson McIntire, Red Oak, Ia.

S. C. White Leghorns, ckls., hens, pullets, $1 each. Won 1st and 2d at Maquoketa. Fine, large W. Holland toms $5 ea. Mrs. Geo. Roe, Bellevue, Iowa.

FOR SALE COLLIE PUPS, S. C. B. Leghorn cockerels, $1 each or 6 for $5. Mrs. A. N. Bonnett, Birmingham, Iowa.

FOR SALE CHOICE LOT OF S. C. W. Leghorn Cockerels. Address MRS. S. J. PHILSON, - Harlan, Iowa.

ORPINGTONS.

Fortmann's Single Comb White Orpingtons
ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once Frank Fortmann, Box 23, Dyersville, Iowa.

SINGLE COMB BUFF ORPINGTON COCKERELS
FOUNDATION stock cost from $35 to $50 each. They are as good as possible to secure. While they last $5.00 each. John T. Stadler, Minden, Neb.

FOR SALE S. C. Buff and Black Orpington Cockerels from prize-winning stock, Wm. Cook strain, $1.50 up. Write for catalog. Ed L. Wallerstedt, Boxholm, Ia.

30 BUFF ORPINGTON COCKERELS
I AM offering 30 choice ckls. for sale; popular prices if ordered at once. R. W. Halford, Manning, Ia.

50 CHOICE early hatched S. C. Buff Orpington cockerels for sale at $1 each or six for $5. Address Mrs. Emilie Plough, Charter Oak, Iowa.

COCKERELS, Kellerstrass S. C. White. Bred direct from 1st prize winners at Omaha, Sioux City. Nettie Crane, 2114 Ave. C, Council Bluffs, Ia.

50 CHOICE early hatched S. C. Buff Orpington cockerels for sale at $1.50 each or 4 for $5.00. Mrs. W. E. Zimmerman, Neola, Iowa.

EGGS S. C. Buff Orp., 4 club specials, 16 prizes. 3 pens, $10, $5, $3.50; 2 utility flocks, $1. Mating list ready Jan. 15th. E. N. Silker, Epworth, Iowa.

SINGLE COMB Buff Orpington cockerels and pullets Two pens. Cook and Owens strains Prices $1.50 and up. H. Cavell, Haverhill, Iowa

KELLERSTRASS WHITE S. C. BUFFS 500 birds at right prices. Orpington Farm, Big Rock, Illinois.

100 CHOICE early hatched 241-egg strain S. C. Buff Orpingtons. Cockerels and pullets. Cook strain direct. Prices right. W. L. Bardsley, Neola, Ia

BRAHMAS.

LIGHT BRAHMA COCKERELS
THEY have heavy bone and good markings. Have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address FRANK P. HEALY, Bedford, Iowa.

Light Brahma Cockerels
BETTER THAN EVER. Large, vigorous, well-marked birds. Eggs in season. Address FRANK A. JOHN, - Bedford, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

BRONZE TURKEYS AND PEKIN DUCKS
IF in need of turkeys or ducks of size and standard markings, write J. D. Smith, Montezuma, Iowa.

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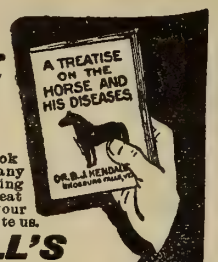

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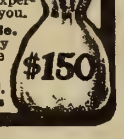

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

LAMENESS.

I have a gray horse, ten years old, weighing 1,200 pounds. The man I got him from says he was lamed from pulling a load on a slippery hill without shoes, about five months ago. In the right hind leg the muscles from the hock to the ankle and the ankle are some swelled. In the morning he is quite lame, steps cocked ankled for a short time and does not bring the leg forward, but seemingly steps very short for a little while. It hurts him worse to go down hill and is hard for him to step over anything, but he rests on the lame leg about as much as the others. When in pasture he does not run around much, but when driven about fifteen minutes he seems to get over it and when left to stand about an hour and started up again doesn't seem much lame. He has had little to do since I got him, but was worked steady for about sixty days after being hurt. Nothing has been done for him and he gets no better.

We suspect from your description that the horse has a bone spavin and if that is so we would advise firing and blistering the hock joint and spavin and then tying the horse up short in stall for six weeks' rest. A hidden or "occult" spavin causes similar symptoms, but is less likely to prove curable.

CHOLERA.

I have a bunch of hogs that are dying in a peculiar way. They get stiff in their hind legs and swell up so that they can hardly get about; their eyes get sore and swell up; some are bound up in their bowels where others are just the opposite; some appear weak in the back, and it seems to be affecting the young hogs altogether. They live along for about three weeks or from two to four weeks before they die. I have been unable to save any yet.

We suspect that this is a form of cholera, which takes several forms, and if so the remaining well hogs should be vaccinated with preventive serum. Have a veterinarian make a post-mortem examination. Meanwhile move the hogs onto new ground and feed light, laxative rations.

WORMS.

I have a bunch of sows that I would like to keep for brood sows, but they are simply alive with worms. I would like to start breeding these sows soon. What remedy would you advise?

Dissolve dried sulphate of iron (copperas) in the slop for five successive mornings, at rate of one dram for each hundred pounds of body weight of sows and repeat in ten days. Do not have the sows bred while taking the medicine. Divide the sows into small lots, so that each may get the right proportion of drugged feed.

ECZEMA.

I have an eight-year-old mare in foal that is out of condition. She has little scabs on her hide. This seems like a discharge of water that comes out through the pores of the skin and then becomes dry, and is accompanied by itching, as she rubs a good deal. Last July she had the gland removed from her throat, as it became enlarged and she could not breathe. When I got her she was very poor, but is gaining in flesh all right. Can you tell me what to do to improve her condition?

Clip and blanket the mare. Wash affected parts of skin with a 1-100 solution of coal-tar dip, as required. Give her half an ounce of Fowler's solution of arsenic night and morning until a quart has been used; then gradually discontinue the medicine. Feed her roots, as well as grain and hay. Let her take abundant exercise every day.

FOUNDER.

I have a twelve-year-old bay gelding about sixteen hands high. He is a very strong puller, but walks along stiffly, especially when led or given his own way about going along, and is worse after a long trip on a hard road. When standing still he stands with his fore feet stretched out forward and when backed up he scarcely lifts his fore feet off the ground. If he stumbles while going he seems to throw his whole body forward. He is slightly sweenied in the left shoulder and is a very poor roadster. When standing in the field, where the ground is soft so that he can work his toes in it, he stands as much on his toes as possible, as though he does not want to stretch the leaders that run to the toe. This leads me to believe that the trouble lies more in the front feet than in the shoulder where the sweeny is. I do not know when or how this trouble came to him, as I just purchased him lately.

The horse is suffering from chronic laminitis (founder) and it is incurable; but he may be able to work on the land if you cover soles of fore feet with pine tar and oakum, then with thick leather pads and then with flat bar shoes. After shoeing in this way clip the hair from the hoof heads of both fore feet and blister repeatedly with cerate of cantharides, until he goes fairly sound. Blister one foot at a time.

RUPTURE.

Please advise me if there is any successful way of castrating a pig that is ruptured in the scrotum.

An expert can castrate such a pig by cutting through the skin of scrotum, but not the envelopes of the testicle; then, after manipulating the intestine back into the abdomen, the testicle is pulled down and a ligature tied around the cords and envelope above the testicle, or wooden clamps put at same place. Afterward the testicle is cut away, or some leave it to slough off. Hogs do not well stand shock of operations, so the operator has to be an expert and quick in his work.

STIFF SOWS.

I have some sows and shoats that are very stiff in their legs. The sows are coming two years old and the shoats are eight months. The stiffness seems to be from the knee down. I am feeding ear corn, ground corn, oats and wheat soaked in milk, also Baum's hog tonic, all they can eat, and pure well water to drink. They sleep in warm quarters with hay for bedding. This hay was cut after it was all dead, so it is dry and no greenness in it whatever. Please tell me whether this bedding is as good as oats straw. Also tell me what is wrong with these hogs and what can be done to relieve them. The sows have pigs two months old nursing. Should I wean the pigs? The hogs come out to eat, but can hardly walk.

Overfeeding and lack of exercise is the cause and the feed also is unsuitable. Stop feeding corn and for the present substitute light slop of milk, middlings, a little corn meal and a little flaxseed meal. Add limewater freely, but do not give medicine of any kind. Make the sows run out daily. Keep their bowels acting freely. Change the bedding to straw, if you find that the sows are eating the hay; for ripe hay may contain ergot which is highly injurious. Oat straw is apt to be dusty, but otherwise is good bedding material. Wean the pigs.

ECZEMA.

I have a bay mare, 1,300 to 1,400 pounds in weight, that has a kind of breaking out in splotches over a great part of her body from which a sort of yellowish fluid exudes, matting the hair and making the hide quite rough to curry over. They do not seem to be very sore, but look bad and do not seem to go away. She has had more or less of them for six weeks or two months and had about the same thing for two or three months about a year ago. She has been running on pasture, blue grass and timothy a good part of the time, being used occasionally to drive and work, when she was fed a little corn, three or four ears at a feed. She eats well and does not seem to feel bad, but seems a little stiff occasionally.

Clip the mare at once and wash affected parts with a 1-100 solution of coal-tar dip, to be repeated as often as found necessary. Keep her off pasture and blanket, if necessary, while hair is growing. If you do not care to clip her entire body at least clip the hair from her belly and to a line with straps of breeching and breast collar and from legs above knees and hocks. Feed lightly on oats, bran and roots along with mixed hay.

BARRENNESS.

A Jersey cow three years old has had one calf, which came about a year ago. She was hard to get with calf the first time, but since then we have been unable to get her with calf at all, though we have bred her to four different bulls a number of times. Is there any way to get her with calf?

There is no specific for barrenness, as the trouble may be due to one of a large number of different causes. If she comes in heat regularly she possibly may conceive after a time, if you treat her as follows: Twice a week inject into her vagina a gallon of lukewarm water containing half an ounce of pure phosphate of soda. When she comes in heat have the mouth of her womb slightly opened by an expert; then repeat the vaginal injection and have her bred an hour afterwards. Persist in this treatment if she fails to conceive the first time.

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POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof before the winter sets in. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd.
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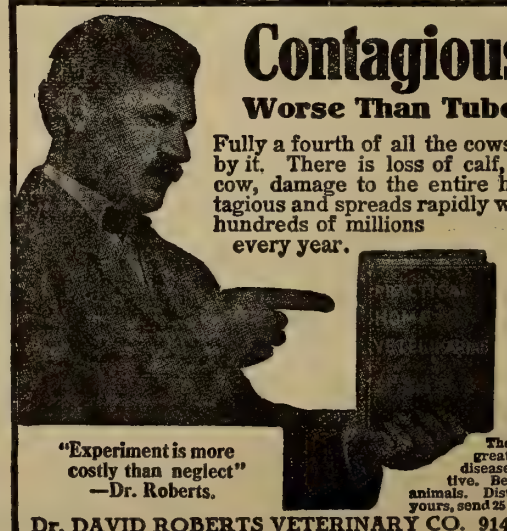
Contagious Abortion
Worse Than Tuberculosis in Cows



Fully a fourth of all the cows of the country are affected by it. There is loss of calf, loss of milk, damage to the cow, damage to the entire herd. Disease is highly contagious and spreads rapidly when started. Losses run into hundreds of millions every year.

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because it meets the germ at every turn.
ANTI-ABORTION medicine overcomes the germ in the mother's blood.
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No one medicine can possibly overcome the disease.
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Dr. DAVID ROBERTS VETERINARY CO. 914 Broadway, Waukesha, Wis.

OUR SHEEP DEPARTMENT

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

SILAGE FOR BREEDING EWES.

To the Editor of The Homestead:

At the Missouri Experiment Station in the winter of 1911-1912 one lot of ewes were fed on corn silage and grain; one on corn silage, grain and clover hay; and one on corn silage and clover hay. The grain consisted of corn, six parts; bran, three parts, and oil cake one part by weight. The ewes were put on feed December 9th, and kept on these rations until lambing.

The grain and silage lot ate on the average per day .39 pounds of grain and 4.07 pounds of silage per 100 pounds live weight. In this lot of twelve ewes eleven were with lamb and produced eleven lambs. So, of the ewes that lambed there was 100 per cent lambs, ten or 91 per cent of which were strong and vigorous. The lot receiving grain, hay and silage ate on an average per day .34 pounds of grain, 2.05 pounds of clover hay and 1.85 pounds of corn silage per 100 pounds live weight. In this lot, ten of the eleven ewes were with lamb and produced fourteen lambs or 140 per cent, of which thirteen or 92.8 per cent were strong and thrifty. In the lot receiving clover hay and silage, fifteen of the sixteen ewes lambed and produced nineteen lambs in all or 126.66 per cent. Fifteen or 78.9 per cent were strong and four or 21 per cent weak. The average amount of feed eaten each day by these ewes was 2.29 pounds of clover hay and 2.38 pounds of silage, for each 100 pounds live weight.

From the results obtained with the lot receiving only silage and hay it would seem that unless the ewes are in extraordinarily good condition the addition of grain during part of the winter, at least, would be advisable. Silage alone for this one year proved to be satisfactory roughness for pregnant ewes when fed with grain. Considering, however, that no twin lambs were born in this lot, the silage and grain ration must be considered inferior to the ration composed of silage, hay and grain. The experience of practical feeders and the results at other experiment stations bear out these conclusions.

It should be further stated that in the three lots receiving silage, eleven were lost during the last week in December, and as far as could be determined the loss was caused by moldy silage. From the first week in January to the first of April the ewes were fed silage without further ill effects.

A few cautions must be observed in feeding silage to pregnant ewes. The silage must be of good quality. Moldy or sour silage is very dangerous. Two or three inches should be used off the top of the silage daily, otherwise it will ferment and mold. Frozen silage is dangerous to feed, as it chills the digestive tract and may cause abortion. H. Hackedorn.

While it seems ridiculous for one to state that most dairy cows on the farm are but half fed during the winter months, it is neverthless absolutely true. Give the matter a thorough test in your own herd, and you will find that almost every cow you feed would comfortably consume twice as much clean grain and roughage as she now receives. This being the state of affairs, how can you expect the cows to keep up the maximum flow of milk?

The writer carefully brushes the cow's flanks, teats and udders well before beginning to milk, which prevents the dust, hair and other substances from dropping into the bucket when one starts to working the teats and udder in milking.

ADDITIONAL FIELD NOTES.

Catalog and Seed Premiums.

The announcement of the Salzer Seed Company which will be found on page 15 presents some information with reference to the 1913 seed catalog and premium list of the John A. Salzer Seed Company. Our readers do not need to be told that this is one of the old-time reliable and favorite seed selling institutions. For more than a quarter of a century it has supplied farmers and gardeners with seeds of all kinds and has built up a reputation which is an assurance of the qualities and merits that go with good seeds. Notice that samples of various seeds are sent on receipt of ten cents. The catalog, however, is free. Address John A. Salzer Seed Company, 124 So. 8th St., La Crosse, Wis.

Swanson's Duroc Sow Sale.

On January 23d, at Stanton, Iowa, S. W. Swanson will make a public sale of forty head of well-bred Duroc Jersey sows. Thirty of these will be yearling and matured sows and ten will be spring gilts. Mr. Swanson has drawn upon the very best sows he has in his herd for this sale. The ten gilts that he is selling are the pick of his 1912 crop. Mr. Swanson is one of those breeders of Durocs who has rather kept his light under a bushel, inasmuch as he has never made much noise, but when he went to a sale he invariably bought the very best. In the Harding sale last winter he bought the two best sows he offered and paid close up to $200 apiece or them. In many other sales he has done likewise and in this way he has built up a good herd. He has selected thirty head of his very best yearling and matured sows and these are the pick of his herd. They will be sired by the well-known boars, King The Col., Model Prince and Model King. The entire offering will be bred to King Willetta, a son of the prize-winning boar, Col. Willetta, and also Model King. Mr. Swanson's sale should be particularly attractive to those who want Duroc sows at reasonable prices. Here is where you are going to be able to buy well-bred sows at figures that could not be thought of at some of the later sales this winter. A word to the wise is sufficient and the man who wants sows this winter should buy them early and avoid the rush. We therefore advise our Homestead readers to write S. W. Swanson for a catalog and then attend his sale. Kindly mention The Homestead when writing for it. See page 44 for advertisement.

Marts' Duroc Sale.

It is a pleasure for us to call the attention of our readers to the Duroc Jersey bred sow sale of B. C. Marts, Hampton, Iowa, to be held in town, January 22d. Homestead readers have known Mr. Marts through our advertising columns for many years and to those with whom he has done business he needs no introduction. Mr. Marts' dealings with his customers have been such that they are walking advertisements of his straightforward, honest way of transacting business. He has been an exhibitor at the Iowa State Fair for a number of years and the class of Durocs he breeds has always received much favorable comment from visitors at the fair. In his sale he will sell forty sows bred to his great herd boars, Chief's Model, a son of Model Chief and out of City Queen by Advancer; Wonder Again by Crimson Wonder I Am, and Hampton King by Model Junior. Edna Model is a daughter of I Am Model and Mr. Marts considers her one of the best brood sows he ever owned. She is thin in flesh, having been in the habit of raising two litters of pigs each year, and they are always good ones. She has produced eighty-five pigs in three years and is now safe in pig to Chief's Model, the boar from which she has raised several good litters. Golden Nellie by Golden Chief, big Lady by Chief's Model and Maid's Lady, a granddaughter of Crimson Wonder Again, are also included in the sale. Mr. Marts is selling a high-class lot of Durocs, as would be expected by those who know something about his breeding operations. Make your arrangements to attend the sale. Write for a catalog, mentioning The Homestead. See advertisement on page 37.

Good's New Importation.

On page 39 of this issue will be found the advertisement of C. G. Good, Ogden, Iowa, who is offering as choice a lot of newly imported Percheron and Belgian stallions and mares as he has ever brought to this country in his quite extended experience as an importer of horses. This importation, which arrived at Ogden early in November, was selected from the best breeders in the old country and includes some of the top stuff from the herds there. One of the Belgian stallions that is now in the stables is the winner of a first prize medal at one of the famous district shows which are so noted for bringing out the very best horses in the kingdom. To secure a winning horse for importation to any country requires a much larger sum of money than a great deal of the stock which is good, but not in the prize winning class. The point of this remark is that Mr. Good has not spared himself to secure the very best that he could find for sale. This particular colt is a grandson of the great Ben D' Or, the champion stallion of the Paris Exposition in 1900. There is in this colt the future of one of the best sort of breeding stallions that one could wish for, and is well worth the money that Mr. Good will ask for him. There is also a light gray Percheron stallion that has a lot of size and quality, is well coupled and a very drafty animal all through. He has a good flat, flinty bone and is worth looking up if one is in search of size and quality of the good sort in a Percheron. There are several other horses in this stable that are good looking prospects for hard and satisfactory service, and are at least worth a visit to the place to see. Mr. Good has not confined himself to the purchase of stallions, but has thought that the need for good mares at moderate prices is strong enough to warrant bringing over a few good things in this line. As a result he can show several nicely matched pairs of mares that are only ready to go out on some up-to-date farm and grow into nice profits for their buyers. For people who prefer to look over something in the American-bred line Mr. Good has a select lot. Customers of this firm can always get their money's worth here, and may be certain that the stuff is exactly as represented. The big feature of the business done here is the low price set on the horses, which insures to the proprietor quick sales, and to the buyer plenty of value for the money paid out. The farm is only a mile from town and visitors will be met at the train if notice is given of their coming. Address C. G. Good, Ogden, Iowa.

James Williams' Duroc Sale.

On Wednesday, January 22d, James Williams, Marcus, Iowa, will hold his winter sale of Duroc Jersey bred gilts and sows. There is one thing that is very much in favor of anything that Mr. Williams offers, namely, that he has never bought anything but the best stuff that he could obtain, and as a result he can offer the most popular lines of breeding, and along with this there are individuals of a great deal of merit in themselves. He has, for instance, boars like the following: Col. Scott Jr. by Col. Scott, he by Carl's Col., dam by Kant Top Notcher; Model Chief VII. by Model Chief by Ohio Chief, dam by Proud Advance; Golden Col. by Protection Col., dam by Golden Model 2d. There is not much better sort of breeding than can be seen in this array of herd boars, and the sows that are to be sold bred to them are not far behind in the same kind of blood. One of the very best things in this sale is the old sow, Golden Queen 8th, a two year old and one of the very few tried sows that will be sold this year out of old Golden Model 2d. In addition to this fact the sow is bred to a boar of the fast becoming popular Model Chief blood, the sort that is noted for a lot of stretch and bone, and this sort of a cross should produce a lot of good breeding stuff for anyone who is desirous of obtaining good stock for their own herd. Another pretty good prospect is a yearling out of the sow just mentioned and by Ohio Blossom's Col. by Prince of Cols. 2d. All told there will be about a dozen of the best kind of tried sow stuff and several more yearlings, and the rest will be spring gilts which include some litters of merit, especially one of nine gilts by Model Chief VII. and out of a sow by a big boar that was as big as most boars of the breed ever get. The litter is even all through and a mighty typey lot they are, too. No. 3 in the catalog is also a big, roomy sort of a brood sow, being sired by Iowa Notcher and out of Lady Tolstoi 3d. In addition this sale includes a Model Chief VII. litter of sows, two two year olds out of Beauty Sensation that are good types of brood sows, worth investigation on the part of breeders who want the good stuff in their herds. The present season will find good sow stuff in big demand and the man who buys his stock early will find later in the season that his early purchases will be bargains. Write now for the catalog, mentioning The Homestead when you do. Address James Williams, Marcus, Iowa. See advertisement on page 38.

Grooters' Sale of Big Poland China Sows.

William Grooters, Boyden, Iowa, sells his bred sows, that are a strictly high-class lot all through, on Thursday, January 23, 1913. This offering is characterized throughout by a great deal of size and the entire cataloged lot is in good condition to go out to anyone's herd and make good. There has been no scarcity of good feed this year and Mr. Grooters will have every sow in the right sort of shape to sell at the time of his sale. The offering includes twenty-five head of tried sows, all but two of which have had fall litters, showing them to be the real breeding sort, not kept open to make them in good shape to sell, and even after this sort of work they will be seen at the sale in first-class condition. There will be fifteen head of spring gilts which for the real size that has made the big type so much sought for are hard to get ahead of. The older stuff is by the good old boar, Long Surprise, by Big Prospect, one of the few 1,000-pound boars that have actually tipped the scales at this figure. The dam of the boar is Surprise A, a Chief Price sow that had a lot of both size and quality. Last year Mr. Grooters bought of Peter Mouw a young boar by the world-famous Big Jumbo, and this pig has grown into a real prospect for a worthy successor of his sire. He has a lot of that great size already and carries also a wide back, even width all through, is good on his feet, has a nine and one-half-inch bone, measures seventy-one inches in length, sixty-one inches in heart and the same in flank. He was thin when the measurements were taken. The spring gilts that he sired the past season are all big, growthy ones, and have much early maturity about them. The show stuff is all considerably ahead of last year's offering and we would like to call especial attention to some of them that are out of a great sow that Mr. Grooters has, Mollie Wonder. The best things in the sale are her daughters or her granddaughters, and it will be hard to find a better lot any place. They are all big, wide-backed sows, with stretch, full hams and good on their feet. It will be worth while to look these over if you are in search of size and smoothness in a Poland China brood sow. The sale will be held at the farm just a mile east of the town of Boyden and the sale follows directly after the sales of Gritters and Ellerbroek. Write for catalog of the sale and plan on being there. This is really one of the good offering of this section. J. A. Benson will have charge of the sale. Mention The Homestead when you send for your catalog. See advertisement on page 37. Address Wm. Grooters, Boyden, Iowa.

Herring's Dispersion Sale of Durocs.

F. H. Herring, Kalona, Iowa, is a man who has been breeding Duroc Jerseys for over a quarter of a century and we might say that while he has never made any sensational sales, he has been breeding a class of hogs that in the hands of their purchasers always made money. He has been very careful regarding his blood lines and a catalog of this, his closing-out sale, will reveal as fashionably bred a lot of Durocs as can be found in any catalog. Daughters and sons of the most noted boars of the breed will sell in this sale. It is really hard to tell which is the top sow of the sale, as there are some half dozen equally well bred, good individuals, that have made good as producers. Mabel C. W. is by Crimson Wonder Again and out of the noted sow, H. A.'s Queen. She is one of the very best sows in the herd and a regular producer. Model Queen by Model Chief, dam by Advancer, is an extra good sow and a very good breeder. Chief's Queen is a litter mate to Model Queen and Superba is another good Model Chief sow. May Crimson is a good daughter of Crimson Wonder Again. Lucy Model is an extra good sow by Model Chief 2d. Jewel's Choice is by Model Wonder and out of Chief's Jewel, the 1909 Iowa grand champion sow. Three of her yearling daughters by Proud Col. are in the sale and we want to say they are about as good as anything you can find in the sale. The offering consists of fifteen brood sows and fifteen gilts by The Wonder, Controller and Convincer. The herd boar, Golden 30th, also sells. He is by Golden Model 2d and out of Fancy Wonder by Crimson W. Golden Model 30th was third at Des Moines, first at Minnesota, defeating the first-prize boar at Iowa; first at Huron, and third at Sioux City. He has proven very sure and is in nice condition. The man who buys him will get a bargain, no matter what price he pays. Mr. Herring's sale will be held in Graham & Sons' livery barn, Iowa City, Iowa, January 21st. Parties who cannot attend the sale should send bids to Carlos C. Palmer, Homestead field man, in care of Mr. Herring. See page 38.

Duroc Jersey Sale Extraordinary.

A public sale of Duroc Jersey hogs announced to take place at Louisville, Ky., on Thursday, January 16th, is one of such unusual excellence as to be worthy of the attention of every admirer of red hogs. Sixty bred sows have been cataloged and it is the belief of the gentlemen making the sale that no more attractive or no more valuable lot have been driven into the sale ring this season nor will there be a lot of equal merit. Harris & Daniels have made up their mind not to make a show next year and for that reason they are putting up a consignment of bred sows including not only their show herd of 1912, but some splendid prospects that have even as much merit for consideration. Besides that, they are making a sacrifice when they catalog the great bred sow, Zelina 26th. This is a brood sow of national reputation, being the dam of Zelina 35th, a sow that won championship honors in 1910 at the state fairs of Illinois, Kentucky and Tennessee and they sold at public sale for $427. She is the dam of Zelina 36th, a sow of prominence as a prize winner and that also sold for the neat figure of $355. She is also the dam of Zelina 45th, one of the greatest of breeders. This sow goes into the sale bred to Kentucky Col. for an early litter. The prospects of this litter are of a sort to improve any herd in the land and it is hoped that breeders will be appreciative enough to send bids at figures near her known value. The great show boar, Kentucky Col., is strongly represented in this sale. Twenty-five of the best sows are bred to him. There will also be twenty-five of his daughters and these will have been bred to Maple Grove Col. Cherry Col. 6th or Ringmaster. There you have about all there is to good blood. Our Mr. Browning will be in attendance at this sale and will be glad to represent the interests of any bidders who may delegate their purchases to him. The consignment will bear out all promises made for it. For catalogs address Harris & Daniels, Morganfield, Ky., but keep in mind that the sale is to be held at Louisville, Ky. See advertisement on page 37.

SHEEP

REGISTERED SHROPSHIRE RAMS

FROM best imported stock. Fifty head rams to go at quick sale from $15 to $25 each. These are thrifty, weigh up good, and include lambs, yearlings and a few two year olds. Will also offer a select lot of ewes. Angus cattle of best types for sale at all times.
A. C. BINNIE, - - Alta, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2 year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address
H. H. REED, - MARENGO, IOWA.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable. Willard Miller, R. F. D. No. 2, Aulta, Iowa

FREE THIS BEAUTIFUL WATCH-FOB

To everyone who ships Hides or Furs to or buys Trappers' Supplies from us to the amount of $5.00 or over we will send this beautiful oxidized silver watch-fob. Size 1⅛ inches dia., strap ½x4½ inches.

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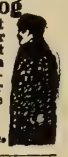

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GRIT MFG. CO., Dept. 132 CHICAGO

This Great Rifle

is over 30 inches in length. The barrel is bronze, 16 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

22 CALIBER HUNTING RIFLE FOR EVERY BOY

This is one of the finest rifles made. I want you to have one. All I ask is a little easy work. Write today and I will tell you about the gun and how to get it.

A. M. Piper, 133 Popular Bldg., Des Moines, Ia.

THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

When after a ten-day visit at the home of her brother, whom she had not seen in fifteen years, Aunt Ellen Cross went away taking with her her namesake niece a great quiet settled down upon the Ellis place.

It was not only that Aunt Ellen had brought a rush of life with her breezy ways and her jolly laugh or that Ellen Ellis who went with her had something of her aunt's lively disposition and temperament and that her going left a blank in the house. That might account for father and mother having little to say and Marian moping a little, but did not explain the tenseness with which Harriet, the eldest of the family, had been going about the house. Perhaps Harriet thought so at first, but she came to know better in the quiet of her own room one night a week later. It was upon that night that Harriet made what, afterwards, she always called "the great decision."

Aunt Ellen had become friends with her nieces from the first. "I have lots of room in my heart now my own girls are married and in homes of their own—as every woman ought to be by the time she is twenty-five," she had said one day. It was the day of this remark of Aunt Ellen's that Harriet Ellis began to think about things. She was helped by the frankness with which Aunt Ellen looked things square in the face.

After she had been with them a few days, one morning Aunt Ellen had said suddenly, as if the thought had but just occurred to her, "What are you girls proposing to do with yourselves as the years go by? Here's Harriet nearly twenty-seven, Ellen past twenty-five, Marian coming twenty-three—and not a man in sight for any of you. You are not trained to support yourselves and I suppose the farm will go to Tom since he has stayed by it and is your father's standby. Oh, of course, I know it is not fair, and that you girls should have and share, but if you did what would it amount to? Anyhow, your father is devoted to Tom. Take my word for it, Tom will get the farm, he'll marry and bring his wife here and there won't be room for you. Then what? I dare say you've never thought that far ahead, and you may not like my 'butting in,' but I like you well enough to risk vexing you by asking impertinent questions when it is for your good."

The girls, too startled to reply for the moment, just looked at each other, but their mother murmured that the girls had a good home, that there was no hurry. "Yes, there is hurry, Maria," had spoken up Aunt Ellen. "As far as I can find out there are not many marrying men in this neighborhood and the few there are do not come here. The fact is you and Peter have not made it your business, as good parents should, to look about and cultivate the acquaintance of men who might make husbands for your girls. What's the use of bringing up girls to be homemakers if you don't see to it that they find husbands? My theory is that parents owe it to their daughters to do one of two things for them, provide for their future in case they do not marry—by settling an income upon them, or by training them to earn their living—or by doing everything they can to help them find suitable life partners. I wanted my girls to marry. So did their father. They are married, and though they don't know it, we helped. I would not have let them settle down as you girls are without social life or men friends. No, indeed. If I had seen that they were not likely to marry I'd have packed them off out into the world to get ready for self support."

Harriet Ellis was plain looking as a young girl. Had she gone away to school, learned to dress becomingly and to overcome her natural shyness she would have been a fairly attractive young woman, for she had an amiable disposition. As it was, feeling that she lacked the charm of other girls, she shrank into herself and soon gave up all thought of a sweetheart and a good time such as she read of other girls having. That her sister Ellen had chafed against the monotony of their life and had declared she could not stand it much longer had not seemed to make an impression upon Harriet, but after Aunt Ellen was gone and her words came back to Harriet she knew that for a long time deep down in her heart there had been a stifled hunger, discontent and a craving for the joy of life which seemed to be passing her by.

Alone in her room that night Harriet compelled herself to face things. Love was seemingly not for her. She had met but few eligible men and not one of the few had ever looked into her eyes as she had seen them look at other girls. And yet she could love—was worth loving too. Well, if love was not for her, if she were never to have a husband and a home of her own, there were other good things in life. The question was, should she set about trying to secure her share of them? And if so, how?

Hour after hour, all through the night, she wrestled with the problem which confronted her, a problem whose constituents were, finally, a determination to make life fuller for herself somehow, somewhere, and a resolute listing of her abilities, disabilities and possible opportunities.

The solution was found when she suddenly remembered that her happiest moments for several years had been those when she had gone to help in homes where there was sickness. She would become a trained nurse. There would be difficulties of course, but she had splendid health and strong nerves, tact and patience also, and she was not afraid of hard work.

She had been lying on her back staring at the wall as if the answer to the problem were written there; as she made her decision—"the great decision"—she rose and went to the window; dawn was just breaking; she opened the window wide, she drank in deep breaths of the frosty air and lifted her face to the East, where shafts of rose and gold were ushering in the new day; then with a look of exultation which glorified her plain face she said solemnly, "Where there's a will there's a way—so help me God I will do it!"

HOME AND HOMEMAKING.

NEW YEAR SUPERSTITIONS.

It is considered a sure sign of death to see one's own shadow in the moonlight on New Year's eve.

You court misfortune by leaving the house on New Year before someone has entered it. You must hope for the luck, moreover, of having the first to enter a dark-haired man.

Seeking to know what good or evil the New Year would bring, superstitious people in the long ago girt themselves with swords and sat on the roof of their houses on New Year's eve. They also knelt at the crossroads (on a cowhide) for the same purpose. The first thing brought, one might think, would be pneumonia.

It is bad luck to carry anything out of the house on the New Year before something has been brought in.

But the best luck of all, which even those most scornful of portents may not despise, is to begin the New Year owing no man a cent.

1. A consonant in "cream." 2. A beverage. 3. Bright. 4. A part of the body. 5. A consonant in "cream."

1470 Word Square—1. A form of medicine. 2. Opinion. 3. A church season. 4. Tardy.

1471 Additions—1. I am a pronoun; put a letter before and one after me and I turn into a session of a judicial assembly. 2. I am a number; put a letter before me and I turn into altitude. 3. I am an animal; put a letter before and one after me and I turn into a dark aspect.

1472 Charade—My first is a boy's name; my second is an exclamation; my third is part of a chain, and my whole is a bird.

1473 Behead—1. An act and leave to consume. 2. A flat-bodied fish and leave a girl's name; again and leave devoured. 3. To roam and leave a waiter; again and leave a beam.

HANGING BASKETS OF CARROTS.

The above unique use of carrots has been suggested as follows: Scoop a hollow in the root and insert a small sponge; sow a few mustard seeds in this and hang in window. Keep the sponge moist and both mustard and carrot top will grow.

EDUCATING BOYS FOR THE FARM.

"Agricultural colleges are not educating boys away from the farm," said Prof. Alfred Vivian, acting dean of the college of agriculture, Ohio State University, when asked about the oft-heard criticism that an agricultural education unfits a boy for practical farm life. "Instead, they are fitting young men to more intelligently till the soil and to make country life more desirable," continued the professor. "To show the influence of an agricultural education on the future life of a boy, take our own college of agriculture, for instance. All the winter course and two-year-course students and 50 per cent of the four-year-course students go back to the farm. Forty-five per cent of those who do not go into practical agriculture are in agricultural work in colleges, experiment stations, United States Department of Agriculture, etc. Only about 5 per cent get into occupations foreign to agriculture.

POTATO SPLIT BISCUIT.

Bake two large potatoes; while hot mash through a strainer into a stone jar. Into the hot potatoes stir a teacupful of lard and butter mixed, salt and two well-beaten eggs. Add a teacupful of sweet milk in which has been dissolved one-half a cake of compressed yeast (or yeast foam) and one tablespoonful of sugar. Stir in a quart of sifted flour. Mix this at nine o'clock in the morning, cover and leave anywhere in the kitchen in winter. At twelve o'clock add to the dough one pint of sifted flour, set away for a second rising. At five in the afternoon turn out the dough on the biscuit board and with just sufficient flour to handle it roll out and cut with a biscuit cutter, placing them in a baking pan one on top of the other, with just a little butter between. Throw a towel over them and let rise two hours, baking them in a quick oven.

AFTER CHRISTMAS.

Ballad of after Christmas,
Song of the vanished pies,
Lay of the well-swept platter,
Carol of unused ties;
Tale of the day-old slipper,
Gone with the other trash;
Sonnet of empty pockets,
Epic of far-flung cash.

Ballad of after Christmas,
Sonnet of broken men,
All of their substance wasted,
Facing the world again;
Song of the silk suspenders,
Precious too far for wear;
Lay of the long-sought trousers,
Needed to fasten there.

Ballad of after Christmas,
Lay of the purse so lean;
Song of the slaughtered savings,
Tale of the slate wiped clean;
Story of things embroidered,
Heaped in a gaudy pile,
Waiting to fill the attic
Just a little while.

Ballad of after Christmas,
Song of the turkey hash;
Tale of the red ink balance,
Story of wasted cash.
Yet, what of woe? Let's share it,
Brother, I bid you cheer;
Christmas—let's grin and bear it—
Comes only once a year!

—J. W. Foley.

THE OLD YEAR.

The old year goes
Upon its way.
It brought some woes,
Yet we can say
It brought a lot
Of real cheer,
And it was not
A bad old year.

Although some days
It gave were blue,
A world of praise
Is but its due.
We owe it much;
'Tis very clear
It wasn't such
A bad old year.

AMONG OURSELVES.

Santa Claus has made us another one of his annual journeys, and Father Time has bowed out Old Year on one side of the stage of life while he was introducing New Year on the other. Standing at the threshold of Nineteen-thirteen let us, with Ambrosia L Nixon, take a last look at the departing year:

THE SIGNIFICANCE OF CHRISTMAS.

The birthday of Christ, besides being a day of festivities and amusements, has a higher and nobler significance. The beneficent results of his labors stand as guide posts to the present and future civilization. Neither the mightiness of Rome nor the fame of Greece nor the pomp of Persia have produced the effect upon the world that this simple and pious life has produced. Empires have risen and fallen. Nations have made entrance and exit upon the stage of existence, kings have been

throned and dethroned, and yet, great as these may seem, they were developments of the material world and have been swept into oblivion. But as time speeds on its ceaseless way the admirers and exemplars of this perfect life increase in numbers. This life teaches that which is spiritual is eternal. That which is temporal fades as the dew before the morning sun. The triumphant advance of Christianity is sufficient to prove that His life is worthy of emulation. No reasoning is more cogent, no evidence proves more conclusively a nation's position in the scale of civilization than its reverence and fidelity to God. As we are about to enter upon the threshold of a new year, let us decide to make it one of unprecedented moral growth, individually and as communities. Let us realize more fully that to prepare for heavenly attainments by earthly existence is the reason we live in the natural world. Let us more deeply appreciate the bonds of divine love which knit the soul of man and man together. By doing these things we will rise in the estimation of those about us, thus hastening the great millennium of peace and fraternal love.

We live so peacefully, so quietly in our America that the troubles along the Bosphorus, the turmoils in other parts of the globe, the ever-threatening war-cloud that hangs over Europe are but as the buzz of an insect that makes a sleeper turn his head on the pillow. Yet, we do well to help in every way to bring on that day when real peace backed by Christian amity shall permeate mankind in thought, word and deed.

Something of the same thought has been in the mind of E. V. S., who has this to say:

LET ALL WISH AND WORK.

One year with its sorrow, suffering, heartaches and pain have passed. One year with its gladness, joy and exhilarating thoughts and moods. We have turned the pages of our great book, a year, revealing new thoughts, ideas, wiser doings and things both gay and sad. Many words spoken have been harsh, actions too, but though we cannot recall them, let's all forgive and forget. Strife and peace are running races with each other. Sometimes hard times are in with good. Scanty living and hard labor intermingle with luxurious living and easy work for some. But the bright side is the best of life if only we look upon it. If only good deeds, kind words and grateful hearts are done and said, not only to people, but to the Creator, it is worth while to live. Let us be thankful that He is yet near us, listen-

ing to our prayers, knows our needs and is guiding our faltering steps. Though we fail, He won't. So let's extend our thanks to Him, both for the year gone and year coming, that it may be with but few sorrows, and that we endeavor to put our trust in Him and take greater steps to lift the burdens of our followers.

As a nation, this year, we indeed find it good to "count our mercies," and as farmer folk we hold out our hands to welcome tiny Nineteen-Thirteen. What squally times these baby people do bring us when they appear on the scene! So during January and February and on into March we have our hands full of "weather." How shall we occupy it? Hear what Mrs. F. G. Porter has to say about spending winter evenings:

READING AS A DUTY.

We are about ready, I guess, to sit down for a little enjoyment and occasionally to read and meditate or study. I have been reading the book lists, but I feel that we busy housewives should be quite discriminating in the books we read. To read a book because it is good or popular reminds me of what my children sometimes say, "Cause is no reason." In choosing our friends we choose them because they are congenial and uplifting. A book may be a very beneficial companion for an hour or so, or it may be the opposite. Idle entertainment should not be considered. There are books that meet the requirements of individual tastes or demands. There are interesting books upon practical lines—religion, economics, travel, politics, etc. The preface is a guide to what the book contains, though where convenient the consultation of a good librarian is very helpful. Books that portray life, sketches or stories that are true to human nature and natural surroundings are sometimes helpful, but shun the book with false ideals. Many a girl has gone to destruction through their influence. My boy and several of his friends are especially disgusted with that popular set of books that invariably finish with the hero a faultless man with great wealth. How silly! as though wealth were the common reward for all the heroes in life. No one enjoys a "dry" book. Let us remember all these points with our gift books. If you cannot learn the receiver's favorite author you can try at least to consider the individual tastes and present him or her with a congenial companion. If we cannot consult a reliable librarian, we can write, enclosing stamp, to any literary friend and get the advice we need concerning any particular book or books. We mothers and wives should not neglect our text (?) books on child culture, household economics, current events, etc. The honor of our nation depends greatly just now upon the women becoming posted intelligently on affairs of state. Of course, we timid, sensitive ones regret the publicity of "votes for women," but since the necessity that arises from impure nature of matter demands it let us do our duty. I love my country and I certainly love my boys and girls, so I intend this winter to read such matter as will fit me for my duties.

Another good friend of ours recommends the following line of reading as well worth while. This reading is for financial profit in our own occupation. Everyone should read the best proven things in the occupation in which she makes her living, as well as reading for mental and moral growth. Dora Grant has evidently been so doing and profiting therefrom:

BULLETIN EVENINGS.

Now that the long winter evenings are approaching and many of us will have more time to read and study, I wish to call your attention to the long and varied list of farmers' bulletins. Send a card to the secretary of agriculture at Washington, D. C., with the numbers of the bulletins desired or for a list of those available and they will be sent by return mail without a cent of cost to you. I will name some which I consider worthy of a place with valuable reading: No. 389, "Bread and Bread Making," in which is explained all about grains and flours of different kinds, yeast and other leavening agencies, preparation of the dough, baking and cooling, imperfections in bread, nutritive value and cost, etc. No. 413, "The Care of Milk and its Use in the Home." No. 128, "Eggs and Their Uses as Food," including cooking and serving, description and composition, flavor and color, digestibility, place of eggs in the diet, marketing and preserving eggs, possible danger from eating eggs and importance and growth of the egg industry. No. 182, "Poultry as Food." No. 234, "The Guinea Fowl and its Use as Food." No. 183, "Meat on the Farm." This includes the selection of animals, preparation for slaughter, killing and dressing for cattle, sheep, hogs and poultry, curing and recipes for curing and smoking, also thirty-five useful figures and illustrations. No. 391, "Economical Use of Meat in the Home," and No. 34, "Meats: Composition and Cooking" are good companions for the above number. No. 85, "Fish as Food." No. 93, "Sugar as Food." No. 293, "Use of Fruit as Food," under which comes wild and cultivated fruits, market conditions and supply, color and flavor, composition, ripening, ways of serving, place of fruit in the diet, digestibility, cooking, handling, storing, etc. No. 203, "Canned Fruit, Preserves and Jellies," giving household methods of preparation and several illustrations. No. 175, "Home Manufacture and Use of Unfermented Grape Juice." This gives explicit directions for preparing and bottling, also a number of illustrations and recipes. Note.—Grape juice can be taken into the stomach in some cases of illness when no other food can be retained and is a cooling and refreshing drink at all times. It might be well before the holidays to read No. 332, "Nuts and Their Uses as Food." Then there is No. 256, "Preparation of Vegetables for the Table;" No. 359, "Canning Vegetables in the Home;" No. 154, "The Home Fruit Garden," and No. 255, "The Home Vegetable Garden." No. 62, "Marketing Farm Produce." Many of the products are dealt with separately, as: No. 198, "Strawberries;" No. 220, "Tomatoes;" No. 282, "Celery;" No. 324, "Sweet Potatoes;" No. 447, "Bees, Etc;" No. 196, "Usefulness of the American Toad;" No. 54, "Some Common Birds in Their Relation to Agriculture," with twenty-two illustrations would be especially instructive to the boys and girls and interesting to all. Those interested in poultry would be interested and benefited by No. 51, "Standard Varieties of Chickens" and No. 64, "Ducks and Geese," both illustrations; No. 200, "Turkeys;" No. 177, "Squab Raising," and No. 287, "Poultry Management." "John" may be interested in No. 106, "Breeds of Dairy Cattle;" No. 206, "Milk Fever and its Treatment;' No. 351, "Tuberculin Test of Cattle for Tuberculosis; No. 205, "Pig Management;' No. 379, "Hog Cholera;" No. 32, "Silos and Silage;" No. 22, "The Feeding of Farm Animals;" No. 239, "The Corrosion of Fence Wire;" No. 194, "Alfalfa Seed;" No. 179, "Horseshoeing;" No. 415, "Seed Corn," etc. The whole family should be interested in No. 126, "Practical Suggestions for Farm Buildings;' No. 270, "Modern Conveniences for the Farm Home;' No. 185, "Beautifying the Home Grounds;" No. 248, "The Lawn," and No. 195, "Annual Flowering Plants." Others that might be of general interest are No. 188, "Weeds Used in Medicine;" No. 86, "Thirty Poisonous Plants;" No. 28, "Weeds and How to Kill Them;" No. 173, "A Primer of Forestry;" No. 367, "Lightning and Lightning Conductors." You cannot secure many of these at one time, so choose the ones of most interest or value to you. By getting a list of all those available for distribution, many will be suggested to individuals which I have not mentioned. I have most of those named in my possession and think many are of general interest as well as instructive.

In these bulletins, either the state agricultural or the United States, you will find the very best thought on any particular line of farm life industry. There is so much of it that a person must wisely choose that fitted to her locality. Like medicines, it needs adaptation to your system. Different woods and different coals give out different degrees of heat and if you don't watch you are apt to scorch your bread; so it is well to learn how to handle new ideas by going a little slow at the first.

Talking of baking, here are a number of housewifely things that call for your attention. Help the inquirers with your knowledge, and file away the recipes till you have time to test them out:

I must write just a line or two and let you know that I find much help and enjoyment in reading our home page. I am afraid Aunt Mary would not allow as big a girl as myself to write to her, but I am glad she cannot keep me from reading it anyway, and so I enjoy that also. Here is a recipe for making bran bread that one of the ladies asked for: Two cupfuls of bran, one cupful of white flour, one-half cupful of New Orleans molasses, one-fourth of a cupful of sweet milk, one teaspoonful of saleratus (not baking powder), one teaspoonful of salt and one-half of a cupful of raisins. This is fine, although graham bread is healthy as well. If any of the ladies can send in a good catsup (tomato) recipe I shall think this a fair exchange.

My neighbors and myself have been bothered a great deal with our lard not keeping. We never lost any until about five years ago. We thought at first it was not cooked enough, so we cooked it better next time, but some of that spoiled. I have two jars now. One smells musty and is nice and white; the other has brown streaks through it and has a spoiled smell. We cannot account for the trouble. We know that it isn't uncleanliness, as we take great care to have everything clean. We wish to know if you could tell us the cause.

Would one of the readers be kind enough to let me know through the Department what to do to prevent worms from getting in sun-dried fruit?

"Miss Stewart" asked for some way to keep shoes from running over. This is what I do and find it a very good way: When I buy a new pair of shoes I take them to a shoe maker and have him put a small metal "tap" on the side of the heel that I run over. You can get these taps in different sizes, but I find the small ones give the best satisfaction. Now, can any of the mother readers tell me which is the best way to dress a five-months-old baby for bed that has to sleep in a room where there is no fire these cold winter nights? The baby sleeps in the same bed with his mother.

Like "Stella Stewart," I, too, am wondering what work the ladies of our circle have planned for the cold winter days. Won't they please tell us? And will Miss Stewart please tell us what use she makes of those pieces. I used to run my shoes over until I learned to put heel plates on the heels and soles when they were thick enough. "Anne of Green Gables;" "Anne of Avonlea," by L. M. Montgomery; "The Lamplighter," by Cummins, and "Quincy Adams Sawyer," by Chas. Felton Pidgin, are good books for young people, as also are Ralph Connor's writings. I enjoy our book talks.

This is in answer to Mrs. Ferryville's inquiry as to how to pickle pork. Your editor believes this to be a valuable piece of information. We thank Mrs. Clara S. Everts for it:

To pickle pork cut fresh sides of pork into strips four inches wide and as long as the sides. Completely cover bottom of keg or ten-gallon jar with salt. Place strip of meat on edge with skin side next to jar or keg and fill in in a circle until there is a layer of meat. Fill all spaces between meat with salt and completely cover meat with salt. Add another layer of meat, cover with salt, and so on until jar is nearly full. Too much salt cannot be used. Take boiling water to cover meat, dissolve in it all the salt it will contain and when cold pour over meat until it is covered at least two inches deep. Put plate or other weight to keep under brine and set in cellar. Add more brine as needed to keep completely covered. Next fall, when all meat is gone, take out a strip at a time, slice, soak in clear water or sweet milk and cook like fresh pork. Have used this recipe in our family for two generations. It cannot be excelled. Meat is sweet and tender and as good as fresh, but remember that too much salt cannot be used.

Mrs. Alice M. sends the following which was asked for:

Bran Bread.—Two cupfuls of sweet

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milk, two and one-half cupfuls of bran, one and one-half cupfuls of graham flour, one cupful of white flour, three tablespoonfuls of brown sugar, one scant teaspoonful of salt, two teaspoonfuls of baking powder, one tablespoonful of melted lard. Mix all together and stir and beat well to make a fine-grained dough. Steam it for two hours and set in a hot oven to brown. I tried several recipes for bran bread, but they all seemed so dry and hard that we did not like them. I experimented until I got this right. It will remain moist until the last bit is used up and tastes more like graham than like bran bread. The quantities given here make a large loaf. I steam in a two-quart granite basin. It is fine.

Here is a letter from an old friend of ours who has begun the New Year well. She has moved from Kansas to Montana, but Mrs. David Wisheart is still a member of our Home Department:

I have not written to the Home Department for several years, but I do enjoy the letters. I think it the best I have ever read. We are living in Montana on the Flathead reservation. We moved from Kansas two years ago last May. Holding a number brought us to our present location. This is a fine climate which, with the beautiful scenery, makes it a pleasant place to live. We are blessed with a church in this new country, for which we are truly thankful. I keep busy in Sabbath school work. I have a class of boys and girls, fifteen in number—aged from eight to thirteen—a very interesting class. The reservation is quite well supplied with schools; ours is located three-quarters of a mile from our home. The church is four miles. The country has made rapid progress in the two years of settlement.

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

MOTTO FOR THE WEEK.

If you are tempted to do something naughty,
Look in the glass, and count up to forty.
—From Iowa, age 12.

COPY THESE IN YOUR DIARY.

Do today's work today.

Honor and shame from no condition rise;
Act well your part—there all the honor lies.

If wisdom's ways you'd wisely seek,
Five things observe with care:
Of whom you speak, to whom you speak,
And how, and when, and where.
—Sent by Iowa.

The thing that goes the farthest
Toward making life worth while,
That does the most, and costs the least,
Is just a pleasant smile.
A smile that bubbles from the heart
And loves its fellow men,
Will drive away the cloud of gloom
And coax the sun again.
It's full of joy and comfort, too,
With manly kindness blent;
It's worth a million dollars
And doesn't cost a cent.
—Sent by Ruth, age 17.

SOME INTERESTING RIDDLES.

Why are some newspapers like a man with cold feet? Because they suffer from poor circulation.

Why are gossips like parrots? Because they are forever repeating what they hear.

When are spices noisy? When the ginger snaps.—Sent by Wild Rose, age 10.

Name me, and you destroy me.—Silence.

When is a boat like a heap of snow? When it is adrift.

What comes after cheese? Mice.

When are volunteers not volunteers? When they are mustered.—Sent by Iowa, age 12.

When is a door not a door? When it is ajar.—Sent by Mamelte, age 15.

When is your pocket empty and yet has something in it? When it has a hole in it.

What turns all over and yet doesn't move? Milk, when it turns sour.

When is the best time to make hay? When it is raining pitchforks.—Sent by Dolly.

When is a man not a man? When he is a-shaving.

What is the difference between a black-haired man and a bald-headed man? One is crow shade (crocheted) and the other is not (knit).—Sent by Wilna, age 13.

What is the difference between live fish and fish alive. "A" difference.

An old woman in a red cloak was crossing a field in which a goat was feeding. What strange transformation took place? The goat turned to butt her (butter).—Sent by Eleanor Schneider, age 11.

ROLL OF HONOR.

Blooming Violet	Ocheyedan Girl
Dane	Waterlily
Fairy Love	Wee Lou
Marion	White Rose
Milkmaid	

Those who won pansy badges for three publications on the roll of honor are Belle, Happy Brown-eyed Maiden, Morning Glory, Washingtonia.

Those who made mistakes and do not get on the roll of honor are Kala and Wilna, who wrote on both sides of their paper. Garda sent conundrums. Doria Hulse answered the "old verse" puzzle correctly.

ABOUT SCHOOL.

We had a program and tree at our schoolhouse, Friday, December, 20th, Our program consisted of recitations, songs, and a play, "The Crying Family." We decorated our tree with pop-corn and candles, which was very pretty. Our teacher gave us candy and bananas and a pennant; the name of the school is Union Valley School. The pennant was made of purple felt with letters of yellow, U. V. S. What do you cousins think of a normal course? Which do you prefer a normal course or a high school education and then go to normal and get your certificate? I am in the eighth grade, and would like to go to Maryville (our county seat) next summer and review the eighth grade, but if I don't do that I will take it again in the country school, because I believe the eighth grade to be the most practical and I think the better you have it the easier the higher studies will be. Do you agree with me? I believe most people will tell you the same.—Milkmaid, age 13.

To Begin the New Year.

Many thanks for the pansy badge, I was very glad to get it and hope to earn a silver badge in the near future. Have you evere seen the play "The Blue Bird," by Maeterlinck? It was given as a special Thanksgiving matinee in the Twin Cities this year, and we went there especially to see it. It is very deep, and is worth seeing ten times over. We also visited a hospital for crippled children, and it is truly marvelous how happy they are in spite of their misfortunes. Little crutches go tapping down the long halls, laughter and snatches of song are heard on every side. When I came out again into the fresh air and able to see, hear, feel and know everything about me, a silent prayer of thanksgiving and remorse rose from my heart, for my selfishness in not being thankful for all my mercies, and thanks for all things henceforth.

But Christmas time will soon be here, and then the new year, when we feel we want to start anew. Oh, that we could keep the spirit throughout the year!

I am always glad to see such a number of names on the "Roll of Honor." I hope A. E. S. has every success in his electrical education. I am especially interested in it, as I have a brother taking a course in this special line of work at the university. I am sure Fat Dolly Baby is a dear little girl, and has my heartiest of good wishes. I correspond quite regularly with Indiana Lass, and find her a very agreeable girl, who also has my good wishes. In all I wish each, and every one of you the very happiest Christmas possible and the brightest New Year ever.—Bedouin.

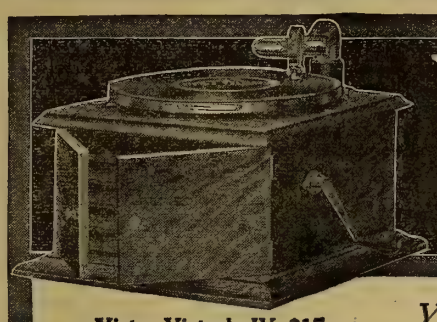
Bright but Brief.

I am a little black dog with brown eyes. My name is Fluffy. I will tell you of a little adventure I have had. One morning I was very hungry. I went into the pantry. I saw some cheese lying on a mouse trap. I put my head down to get the cheese, and I sprung the trap. It hit me on the nose. I squealed very loud, and got out of the pantry as quick as I could. —Peggy, age 10.

Two days ago there was a wreck about one mile from my father's farm, and about one and one-half miles from Willard, Colo. Two coaches and two box cars were thrown down an embankment. When the cars jumped the track they slid and tumbled for about 150 feet or more. It tore out about 600 feet of track. One old lady was hurt very badly, and the conductor was hurt in the back, and most everybody was scratched and had black eyes. The train was just about on the bridge when it was wrecked.—Western Lad.

Once there were two little girls named Fan and Flora. One summer their mother gave them a garden, and said if they worked well they could have it for their own. Fan went to work and soon had her garden all dug up ready to plant. But Flora was not so industrious. She started in when Fan did, but soon complained of being tired. All through the summer, Fan kept her garden clean, and had many beautiful flowers to show as a result. But Flora neglected hers, and let the weeds grow up and choke her flowers. She was very sad because she had no flowers, and promised to do better the next summer.—Cleo, age 12.

I am going to be a farmer because I love the farm and farm stock, especially horses. Every person should be kind to horses, because if it were not for horses the farmer would not know what to do. A farmer is the happiest man, as a general rule, singing while at work and at play. I believe in raising good stock and not scrubby stock. For a boy of fifteen I have a good start, because I am my



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father's only helper who is at home. I have fifteen fattening hogs, four brood cows, twenty-five young pigs, seven ponies and six head of cattle. I hope to succeed in my work, after my father has given me a start. But when at first I don't succeed I will try again until I do.—Partner, S. D.

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THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5964 Girl's Dress—The blouse of this dress closes at the left side of the front. The skirt is a three-gored model joined to an underwaist. Serge or broadcloth can be used to make this dress.

The pattern, No. 5964, is cut in sizes 6 to 12 years. Medium size requires 2¾ yards of 44-inch material with ½ yard of 27-inch contrasting goods. Price of pattern, ten cents.

5906 Miss' and Small Woman's Dress—This charming frock is designed for the miss and small woman. It has the fashionable front closing and is made with revers at bottom. The collar is a pretty feature and it and the revers and turned-back cuffs are trimmed with braid. Serge, mohair or broadcloth can be used to make this dress.

The pattern, No. 5906, is cut in sizes 14, 16 and 18 years. Medium size requires 6½ yards of 27-inch material with 2½ yards of braid. Price of pattern, ten cents.

5083 Lady's Princess Apron—This apron is made in the princess style. It is just the thing to wear around the kitchen. It can be developed in gingham or muslin.

The pattern, No. 5083, is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 5¾ yards of 27-inch material or 4⅜ yards of 36-inch goods. Price of pattern, ten cents.

4361 Neat Dressing Sack—The shirtwaist dressing sack is excellent for the fall and winter wear, the long sleeves and big neck being very acceptable. Any of the crepe materials can be used to make this sack.

The pattern, No. 4361, is cut in sizes 32 to 44 inches bust measure. Medium size requires 2½ yards of 36-inch material. Price of pattern, ten cents.

5808 Lady's Waist—In this model we have a plain shirtwaist with an uncommon feature—the sleeves extending to the neck edge. This is a new idea and one that has made a pronounced hit. Every woman requires a number of plain shirtwaists for general wear and she likes these models to be different in some degrees one from the other.

The pattern, No. 5808, is cut in sizes 32 to 42 inches bust measure. Medium size requires 2½ yards of 36-inch material. Price of pattern, ten cents.

5995 Lady's Shirtwaist—This is a splendid type of a tailored shirtwaist and is just the thing for general wear with the coat suit. It can be made with or without the box plaits, can have either long or short sleeves and either standing or rolling collar.

The pattern, No. 5995, is cut in sizes 32 to 42 inches bust measure. Medium size requires 3½ yards of 27-inch material. Price of pattern, ten cents.

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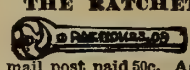

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FARM ADVANCE OF SIXTEEN YEARS.

The most effective move toward reduced cost of living is the production of greater crops. This is attributable to the work of the Department of Agriculture, the agricultural colleges and experiment stations, and the help of the press in publishing every movement to help the farmers.

One hundred and sixty-three thousand square miles have been cleared of the fever tick in the Southern States, equal to the area of three states. The farmers there are bringing in improved stock and will soon contribute materially to the meat supply.

Our dry land problems will be measurably solved through alfalfas from Siberia and non-saccharine sorghums from Africa.

The town does not need the retired farmer, while the farm needs his experience and his capital. A retired farmer is capital going to waste.

Taking care of the soil is the first consideration in conservation of our resources.

Bookkeeping will soon be as common on the farm as in the factory. It is just as important for a farmer to know what it has cost to produce a given crop as for the manufacturer to know the cost of making the article he sells.

During the last sixteen years the farmer has steadily increased his wealth production year by year, with the exception of 1911, when the value declined from that of the preceding year. If the wealth produced on farms in 1899 be regarded as 100, the wealth produced sixteen years ago, or in 1897, is represented by 84, and the wealth produced in 1912 by 202.1. During the sixteen years the farmers' wealth production increased 141 per cent.

A field half as large again as Italy or nearly as large as either France or Germany is the area of this country's cornfield. This year's corn crop is the largest ever produced in this country, and reaches the staggering amount of 3,169 million bushels. In value, too, the corn crop this year is the highest on record and reaches the fabulous amount of 1,759 million dollars. This crop is worth to the farmer 20 per cent more than the average corn crop of the previous five years.

An egg may be worth only a cent and three-quarters and yet 1,700 million dozen eggs are worth 350 million dollars, and these are the estimates for 1912. If to the value mentioned is added the value of the fowls raised, the products of the poultry industry on farms amounts to about 570 million dollars. This is nearly equal to the value of the wheat crop and is more than three-fourths of the value of the cotton lint produced this year.

The animals sold from the farm and the animals slaughtered on it together number about 111 millions and the farm value of these animals is estimated at 1,930 million dollars.—[Secretary Wilson's Annual Report.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER Lesson II. Genesis I., 26-27: II., 4-25 January 12, 1913

MAN, THE CROWN OF CREATION—THE STORY.

The majestic Father of the world, in this marvelous moving picture of the eldest literature, is next portrayed as proceeding with the complacency of infinity to make His jewelry in the sky and hang His lustrous lanterns there; to separate air, land, and water, and people each with all their myriad forms of life, beautiful and curious. Now He pauses in the last and long epoch and, as if in contemplation of the climax, the crown of sentient life with which he intended to adorn and beautify it all. It is as if He was announcing to Himself His purpose to create a vicar like Himself in ability to think and do—a being who, by his intelligence and will, shall bring everything animate and inanimate to its best estate. The change of the creative formula from "Let be!" (used seven times) to "Let us make!" in its very self indicates man's difference from and superiority to all the rest of creation. His place, also last in the order, is token also of his pre-eminence. This conclusion is further strengthened by the similitude in which it is proposed he shall be made, namely in God's likeness and image. This can not be a corporeal similarity, for God is without body or parts. Man's original likeness to God consisted in his mental powers to think, reason, imagine, remember, conclude, and resolve. The observer of the image was the moral qualities of the soul by which he believed and loved. It pleased God to create man in a holy dualism. Male and female created He them. He also ordained their multiplication. They were to fructify and replenish the earth. With the solicitude of a father he now points to the abundant table of nature from which they are to replenish the wasted powers and refresh and delight their physical natures. Now the Creator brings man to the throne and gives him a coronation in the words, "Have dominion!" It is as if the Infinite was writing a quit-claim deed to the material world, the terms of which read, "Take it!" "Dress it!" "Keep it!" Now, for the seventh time, He spreads His hands in benediction over all His works and pronounces them "Good!" In this seventh epoch there is cessation from creative activity. The beneficent "Former of the skies" gives an exemplary lesson in breaking off from toil. He makes the Sabbath a golden clasp to bind the volume of the creative week together—a clasp graven deep with divine injunctions and studded richly with divine promises.

The Teacher's Lantern.

The difficulty here is to know what not to teach. The paragraph is fairly packed with seed thoughts. A selection is imperative. Matters of comparative unimportance, but which, if once mooted, might lead to time-wasting debate, should be omitted. For example: (1) The nature of man's food before the fall; (2) Whether any animals were carnivorous before that event; (3) Whether God spoke to the angels or the other persons of the Trinity when He said, "Let us make man;" (4) The method of Eve's creation; (5) Whether the creative days were literal days or aeons. The majesty and unimpeached correctness of the Mosaic account of creation makes an apt introduction in teaching the lesson. This can be well shown by using the crude heathen cosmogonies as a background. The orderly and glorious progress of creation should be so reverently described as to lead the scholar to exclaim, "O Lord, how manifold are Thy works! in wisdom hast Thou made them all." Man's dominion over nature was never so great as at the present day. With retort, spectrum, telescope, microscope, etc., he is wresting her secrets from her, and subduing her forces to his use. A beginning only has been made. The universe affords a limitless arena for man's skill and prowess. The dignity of man's position in nature, the variety, delicacy, and strength of his senses and faculties, the broad scope afforded for their employment, should be dwelt upon until the scholar is ready to exclaim in the language of another, "O rich and varied man, thou palace of sight and mind!" The primeval institution of the family and the Sabbath furnishes a practical teaching point. Infidelity to the marriage vow and desecration of the Sabbath are sins against God. Senior class teachers should be ready for emergencies in this lesson. Questions of a captious nature may be sprung. For example: "How could there be light before the sun?" Moses distinguishes between light and luminaries. He justly attaches great importance to that "luminous ether to which we owe all the great vivifying powers of nature." (Principal Dawson.) "That there may be light without the visible sun is now admitted." (Wm. Fraser.) "The whole earth was inclosed in an expanse of aerial fluid from which, through the agency of the electro-magnetic forces, streamed forth a light accompanied with animating warmth." (Von Schubert.) "How could there be vegetable life before the sun?" The germs, embyros, seeds of vegetation in its infinite varieties, were all placed in the earth on the third day. "They brought forth;" i. e., sprouted and germinated. They did not need the sunlight for this, as the potato does not in the cellar. The next day God steeped the earth in sunshine, and the hills were clothed in verdure. "How about Eve and the rib story?" No one acquainted with the biological fact and process of fission would raise such a question. The separation of Eve from Adam's side has a physiological analogy which may be observed as the animalcule divides into two living parts. This will suffice for examples of captious questions. Do not provoke or encourage, but be ready for them. When squarely answered, quickly and firmly turn to some practical point in the paragraph.

Country-Cured Hams and Bacon.

By Isaac Motes.

A SIMPLE and practical method of stimulating farmers to kill their hogs and cure their meat at home is being pursued by the Missouri State Board of Agriculture, and it is a work which needs to be done in the states of the upper Mississippi valley, where farmers are close to the great packing centers, and where it is much easier simply to load live hogs into cars and ship them to market, sell them to the packing houses, and let the packers do the killing and curing of meat. The Missouri board is going to have a farmers' ham and bacon show to be held at the college of agriculture at Columbia during Farmers' Week, January 13-17th, when prizes of $25, $15 and $10 will be given as premiums for the three best samples of home-cured country hams and the same amounts for the three best samples of home-cured country bacon.

Perhaps no other movement as simple as this, and started in such a modest way, is as important to the farmer, or could have such a good effect upon the meat packing industry, or could mean so much to discriminating judges of meat, and other people who appreciate good eating. The rapid increase of the meat packing industry by great packing houses has tended to relieve farmers of the disagreeable work connected with hog killing, but it has lowered the quality of meat sold in the markets. It is seldom now that you can buy country-cured bacon and hams in towns, and never in large cities, and packing house meats are not put up with that care and nicety that the painstaking farmer uses with his home-cured meat.

The packing houses use no sugar in the curing of meat as they once did. That is, they may use a little sugar in the curing of fancy grades of breakfast bacon and hams which they sell to wealthy families and great hotels, but not in the curing of the meat you buy in the average grocery store. As a rule a careful farmer uses more sugar in curing meat than the big packing house, and even if he doesn't use any sugar he doesn't use as much saltpeter and other strong preservatives as the packing houses seem to use in curing their average grades of meat.

A packing house, slaughtering perhaps 700 or 800 hogs a day, has so much money at stake that it cannot afford to experiment. It cannot take any chances on losing any of the meat, and consequently uses enough strong preservatives to make sure of saving the meat, even at the expense of some of the fine flavor, while the farmer killing ten, twenty, thirty or forty hogs at a time doesn't have so much at stake, and can therefore take more chances in losing a little meat occasionally by curing it without the use of so much strong preservative, and thereby he retains more of the natural flavor and sweetness of the meat.

You might possibly be more apt to find a ham slightly spoiled among country-cured meat than among the packing house product, but on the other hand all the country-cured meat which you found to be good would be very good. The packing house process is more scientific and sure, though the means used by the careful farmer gives the meat a better and sweeter flavor. But where a farmer is skilful and careful he should be able to cure his bacon and hams perfectly without using so much saltpeter as to destroy the natural meat taste.

It is to be hoped that the Missouri Ham and Bacon Show may be a success, and may do something to cause farmers to reestablish the fine old-fashioned custom of curing their meat at home, pickling it in brine containing a small proportion of sugar, and smoking it in the old-time, tightly closed smokehouse with hickory wood or corn cobs. We would then have better meat, and doubtless it would sell at as good a price. Besides the packing houses might pay more for what hogs they did buy if the number shipped to market on the hoof began to show a sharp slump on account of the number that were being killed at home.

In the largest corn-growing contest ever held in the Northwest, Harper Brush, a 12-year-old boy, has been declared the winner. More than five hundred North Dakota farmers contested for the honor carried off by this boy, who grew more than seventy-one bushels of corn to the acre on a four-acre plot. The state was divided into two contest divisions, and scattered all over this territory were 513 contestants. Among the winning contestants the average yield of corn was 52.2 bushels an acre. The highest yield, grown by Harper Brush, was 71.7 bushels of corn.

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DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Jan. 28, O. M. Healy, Bedford, Ia. (sale at Marshalltown, Iowa).
Feb. 12, White & Smith, Chicago, Ill.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 14, Chas. Slepicka, Tobias Neb.
Feb. 21, F. A. Schaeffer, Raleigh, Iowa (sale at Estherville, Iowa).
Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Jan. 21, Chas. Quelland, Williams, Ia.
Feb. 14-15, Combination sale, Grand Island, R. D. Mousel, Mgr., Cambridge, Neb.
Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 20, A. A. Hager, Avoca, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Feb. 5, Registered and high grade, A. J. Podendorf, Logan, Iowa.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Feb. 5, D. D. Case, Giltner, Neb., and L. M. Phelps, Trumbull, Neb. (sale at Hastings, Neb.)
Feb. 20, Nuckolls County Horse Breeders' Assn., Percy Baird, Ruskin, Neb., Sec., sale at Lincoln, Neb.
Jan. 22-23, Breeders, sale, C. F. Way and H. K. Frantz, Mgrs., Lincoln, Neb.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Percheron and Belgian Horses.

Jan. 14, Thos. and James Woulf, Streator, Ill.

All Breeds of Draft Horses.

Jan. 28-29-30-31, C. W. Hurt, Mgr., Bloomington, Ill.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Jacks and Jennets.

Feb. 4, Platte Co. Jack Sale Co., J. B. Dillingham, Mgr., Platte City, Mo.
Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Poland China Swine.

Jan. 21, Ellerbroek's Herd, Sheldon, Ia.
Jan. 22, E. Gritters, Hull, Iowa.
Jan. 23, Chas. Herring, Columbus, Neb.
Jan. 24, Herman Baltz, Fremont, Neb.
Jan. 24, J. G. Long, Harlan, Iowa.
Jan. 28, W. H. Moore & Son, Genoa, Neb.
Jan. 30, E. E. Farver, Ocheyedan, Iowa.
Jan. 30, G. A. Kissinger, Milford, Neb.
Jan. 30, B. T. Wray & Sons, Hopkins, Mo.; A. O. Stanley, Sheridan, Mo.; V. O. Hunt, Ravenwood, Mo., at Sheridan, Mo.
Jan. 30, Wright & Son, Concord, Neb.
Jan. 31, Sam Tillinghast, Peterson, Ia.
Jan. 31, Frank Roberts, Earlham, Iowa.
Jan. 31, O. J. McCullough, Clarks, Neb. (sale at Aurora, Neb.)
Jan. 31, C. W. Schramm, Newcastle, Neb.
Feb. 1, N. B. Freeman, Kearney, Neb.
Feb. 1, Podendorf & Rainier, Logan, Ia.
Feb. 3, Carl A. Rosenfeld, Kelley, Ia.
Feb. 3, Williams Bros., Villisca, Iowa.
Feb. 4, W. H. Barr & Sons, Villisca, Iowa (sale at Red Oak, Iowa).
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 4, Merzie Estate, Hampton, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 5, Williams Bros., Villisca, Iowa.
Feb. 5, J. M. Glasier, Algona, Iowa.
Feb. 6, H. Fesenmeyer, Clarinda, Iowa.
Feb. 6, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 7, G. W. Sefrit, Lucas, Iowa.
Feb. 7, J. O. James, Braddyville, Iowa.
Feb. 8, J. T. R. Nash, Minden, Neb.
Feb. 10, A. D. Jones, Dunlap, Iowa.
Feb. 10, W. E. Zimmerman, Neola, Ia.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 11, Henry Dorr, Remsen, Iowa.
Feb. 12, M. F. O'Hern, Barnum, Iowa.
Feb. 12, Jas. Williams and Will A. Henry, Marcus, Iowa.
Feb. 12, D. C. Lonergan, Florence, Neb.
Feb. 13, W. A. Lingford, Dannebrog, Neb., sale at Grand Island, Neb.
Feb. 13, E. S. Barker, Doon, Iowa.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 13, H. P. Kuhl, Florence, Neb.
Feb. 14, Chas. Humerick, Atlantic, Ia.
Feb. 14, J. M. Peery, Alvord, Iowa.
Feb. 14, Frank Owens, Council Bluffs, Iowa.
Feb. 15, Walker & Son, Fairbury, Neb.
Feb. 18, Jas. Cockerton, Whiting, Ia.
Feb. 18, G. J. Bloemendaal, Alton, Ia.
Feb. 19, Peter Mouw, Orange City, Ia.
Feb. 19, C. C. Polly, Whiting, Iowa.
Feb. 20, Ruebel Bros., Marathon, Iowa.
Feb. 21, W. J. Crow, Webb, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 21, R. W. Halford, Manning, Ia.
Feb. 22, C. C. Ingram, Bloomington, Neb.
Feb. 24, J. M. Sheehan, Stuart, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa.
Feb. 26, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 26, Wm. Lentz, Ankeny, Iowa.

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Feb. 26, L. R. McClarnon, Braddyville, Iowa (night sale).
Feb. 27, R. R. Blake, Dallas Center, Ia.
Feb. 28, C. M. Pederson, Dunlap, Iowa.
Mar. 1, Fred Sievers, Audubon, Iowa.
Mar. 8, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Jan. 20, S. P. Freed, Ames, Iowa.
Jan. 21, E. C. Stemen & Son, Middle Point, Ohio.
Jan. 21, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 21, J. A. Shade, Kingsley, Iowa.
Jan. 21, F. H. Herring, Iowa City, Ia.
Jan. 22, Menaugh Bros., Gardner, Ill.
Jan. 22, Rude & Son, Moorehead, Iowa.
Jan. 22, James Williams, Marcus, Iowa.
Jan. 23, S. W. Swanson, Stanton, Iowa.
Jan. 24, A. J. & L. L. DeYoung, Sheldon, Iowa.
Jan. 24, Sol Frank, Sioux City, Iowa.
Jan. 25, J. E. Smith, Victor, Iowa.
Jan. 27, David Boesiger, Cortland, Neb.
Jan. 28, A. J. Duerr, Milford, Neb.
Jan. 28, Paul Mason and John Brackemyer, Morrison, Ill.
Jan. 28, E. E. Handley, Carroll, Iowa.
Jan. 29, P. W. Weberg, Denison, Iowa.
Jan. 30, O. S. Larson, Logan, Iowa.
Jan. 31, W. H. Seddon, Persia, Iowa.
Feb. 1, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Ia.
Feb. 4, F. H. Dickey & H. S. Fain, Emmetsburg, Iowa.
Feb. 4, Geo. T. White, Dallas Center, Ia.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 4, Wm. Retzlaff, Bennett, Neb.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 5, Grant Lynn, Spirit Lake, Iowa.
Feb. 5, H. S. Allen, Chariton, Iowa.
Feb. 6, S. L. Weaver, Lake Park, Ia.
Feb. 6, J. C. Droz and Hanks & Bishop, Fairfield, Iowa.
Feb. 6, O. R. Stevens, Rippey, Iowa.
Feb. 7, Howard Gerlaugh, Osborn, O.
Feb. 7, J. Schmidt, Everly, Iowa.
Feb. 7, E. W. Davis, Glenwood, Mo.
Feb. 8, Swan & Ellis, Indianola, Iowa.
Feb. 10, R. Widle & Sons, Genoa, Neb.
Feb. 11, Waltemeyer Bros., Melbourne, Iowa.
Feb. 11, Fred Nelson, Lindsey, Neb.
Feb. 11, H. H. Shaw, Hebron, Neb.
Feb. 12, J. D. Isaac, Red Oak, Iowa.
Feb. 12, Economy Stock Farm, Shenandoah, Iowa.
Feb. 12, J. C. Theobold, Ohiowa, Neb.
Feb. 12, A. W. Lamb, Albion, Neb.
Feb. 13, C. H. Huffman, Scranton, Iowa.
Feb. 13, H. H. Koenig, DeWitt, Neb.
Feb. 13, A. R. Barnes, Petersburg, Neb.
Feb. 13, R. L. Comer, Carlinville, Ill., and W. H. & A. D. Van Meeter, Cantrall, Ill., sale at Pawnee, Ill.
Feb. 14, Wm. Harding & Son, Brimfield, Ill.
Feb. 17, Bob Ewing, New Hampshire, O.
Feb. 17, Con. McCarthy, York, Neb.
Feb. 18, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 19, D. Herr & Miller, Elida, Ohio.
Feb. 19, G. Van Patten & Son, Sutton, Neb.
Feb. 20, J. W. Storm, Seville, Ohio.
Feb. 21, Geo. Davis & Son, Milford, Neb.
Feb. 22, C. K. Anderson, Table Rock, Neb.
Feb. 24, Jess W. Andrews, West Point, Ind., sale at La Fayette, Ind.

Chester White Swine.

Feb. 6, H. L. Bode, Friend, Neb.
Feb. 7, Chas. H. Murray, Friend, Neb.
Feb. 13, F. W. La Doux, Spirit Lake, Ia.
Feb. 19, G. H. Tutt, Marathon, Iowa.
Feb. 20, J. H. Stewart, Dickens, Iowa.
Feb. 27, John F. Holst, Jr., Denison, Ia.

Hampshire Swine.

Jan. 25, C. P. Paulsen, Nora, Neb.
Jan. 27, A. L. Goodenough, Morrison, Ill.
Jan. 28, Bollman & Sharpe, Coal Valley, Ill.
Jan. 29, Zehr Bros., Peoria, Ill.; L. C. Miller, Canton, Ill.; Geo. Lippert, Magnolia, Ill., sale at Peoria.
Jan. 30, Essig Bros., Tipton, Ind.
Jan. 31, Chas. E. Davis, Radnor, Ohio.
Feb. 1, G. H. Dodds, Kenton, Ohio.
Feb. 5, C. A. Brook, Washington, Ia.
Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

U. G. Davidson, Algona, Iowa, writes us that he has for sale two Duroc Jersey spring boars that are of extraordinary merit. They weigh better than 200 pounds, although they have never been crowded. They are of unusually excellent lines of popular blood and are herd boar prospects that will justify good readers in investigating. Address inquiries as above.

Davenport & Mack, Belmond, Iowa, have seven good yearling Scotch and Scotch-topped Short-horn bulls for sale. Their advertisement appears on page 45.

W. E. Prichard & Sons, the importers and breeders of Percherons at Ottawa, Ill., report a brisk trade. They have the big-boned, rugged kind of young stallions and sell them at the right price.

Some very interesting information appears in the advertisement of the Cownie Tanning Company on page 28. This tannery is prepared to do work as cheaply and as perfectly as any other concern and also gives an absolute assurance of satisfaction to the patron. Write for full particulars to the Cownie Tanning Company, 508 Market St., Des Moines, Iowa.

An advertisement of the low-down, easy loading Great Western manure spreader occupies a place on page 12. This advertisement contains a brief paragraph referring to the special features of rare merit of this spreader. Additional facts may be obtained in a free catalog for which address Rock Island Plow Company, 183 B. Second Ave., Rock Island, Ill.

An advertisement of the Superior drill on page 14 presents the claims of that drill to our readers. Everyone knows the need of greater care at seeding time and that a good seeder is an essential, while a poor one is a damage. The Superior is made in every size and style. The catalog describes it in full. Write to American Seeding Machine Company, Springfield, Ohio.

The advertisement of the Victor Talking Machine Company on page 31 presents some of the merits of the Victor Victrola and the uses which those machines have in adding to the home enjoyment where the admiration of music is a feature. Catalogs or other information may be obtained by writing to Victor Talking Machine Company, 25th & Cooper, Camden, N. J.

On page 45 you will find the advertisement of Chas. Escher & Son, Botna, Iowa, who are offering some splendid young Aberdeen Angus bulls and heifers for sale. Among these young bulls are some that are individually good enough to head any herd in this country and as for breeding you cannot find any better no matter where you go. They also offer a grand lot of good young heifers for sale. When writing them kindly mention The Homestead.

John E. Wallace, Weldon, Iowa, is advertising a registered Percheron stallion, coming seven years old, weighing 2,110 pounds, on page 39. This stallion is sound, has proven a sure breeder and Mr. Wallace is sending him for no fault, but for the reason that he has a younger stallion coming on that he prefers to keep in place of the older horse. A reasonable price will be made on this stallion and anyone interested should correspond with Mr. Wallace at once, mentioning The Homestead.

W. H. Miller & Son, Independence, Iowa, offer for sale a very choice two-year-old Percheron stallion. They have used this colt some this season, but on account of being akin to several of the mares in their herd they wish to sell him and get another. He has plenty of bone and is a sure breeder. His sire is the great imported horse, Fusain. They also offer for sale a Short-horn bull of extra quality. He is a nice roan and they will price him very low if taken in the next few days. See page 39 and mention The Homestead when writing.

An engraving showing the first start of the world's greatest wagon factory will be found on page 9 of this paper. It is a part of the advertisement of the Peter Schuttler Company. The announcement also contains a view of the present immense factory that turns out thousands of wagons yearly and that produces vehicles that fulfill every farm requirement. A catalog which fully explains the latest device in wagons, the Peter Schuttler roller bearing, may be obtained by writing to Peter Schuttler Company, 2508 Twenty-second St., Chicago, Ill.

The X-Ray incubator illustrated in the advertisement on page 22 has claims not advanced for other makes. One of the biggest of these is that it requires only one gallon of oil and one filling of the lamp for an entire hatch. The other points are left to the judgment of buyers. As this incubator is shipped direct from the factory, the freight prepaid and under a guarantee that it will fulfill every promise made for it. A complete description and the terms of this trial offer may be obtained by writing for book No. 41. Address X-Ray Incubator Co., Wayne, Neb.

While farmers generally recognize the profit of the dairy division of the farm, not all of them have learned that attention to details and perfection of equipment may add so much as to even double the profits of the dairy as ordinarily conducted. In an advertisement on page 17 many facts relative to the profitable use of the Owatonna Home Creamery are given. This home creamery reduces the work to the minimum, while at the same time it gets every available profit out of the business. The manufacturers have gone to a great deal of expense in the publication of a book entitled "Dairy Dollars" which treats of farm dairying in all of its phases and contains an unusual amount of information which every farmer ought to have. This book may be obtained without cost by readers of this paper who write for it to Home Creamery Mfg. Co., Dept. 10, Owatonna, Minn.

Taylor & Jones, draft horse importers, Williamsville, Ill., advise us, under recent date, that they have received a late importation of stallions and mares that came through in excellent condition and are now ready for the investigation of purchasers. Reasonable prices will be quoted on these animals. See advertisement o page 47 and address inquiries to Taylor & Jones, Williamsville, Ill.

An advertisement of Campbell's Winter-Chaser furnace occupies a prominent place on page 7 of this paper. The Campbell furnace has been in use many years. It is an all-steel furnace built for durability, as well as service, and along plans of approved scientific principles. Aside from the information given in the advertisement a book of description and prices may be obtained by writing to Campbell Heating Company, 1213 Walnut St., Des Moines, Iowa.

On page 43 of this issue will be found the advertisement of G. H. Dodds, Kenton, Ohio, in which he announces a public sale of Hampshire bred sows, the same to take place on Saturday, February 1st, at Canton, Ohio. The offering will contain animals of the best of breeding, all healthy, and the sale will give Homestead readers an opportunity to purchase improved Hampshires at their own price. Catalogs are ready and in writing for same please mention The Homestead.

The advertisement of A. M. Avery, Mason City, Iowa, offering Duroc Jersey boars and bred sows for sale, appears on page 44 of this issue.. In furnishing copy for advertisement he writes: "We still have several good boars, the long, heavy-boned kind, that we are pricing worth the money. We are also offering the strongest line of bred gilts that it has ever been our privilege to produce. We also have a very nice lot of Silver King seed corn for sale."

Fifty head of Scotch-bred Short-horns are to be sold at Chicago, February 12th, by White & Smith, St. Cloud, Minn. Included in the list is the International grand champion cow, Roan Queen, several young bulls by the undefeated champion, Ringmaster, several cows with calves at foot by Ringmaster and a large number bred to him. It will be one of the big events of the year in Short-horn circles and full particulars will appear in later issues. File your applications now for a catalog with White & Smith, St. Cloud, Minn., and mention The Homestead when you write.

A new candidate for farm favor is the Bates all-steel tractor, an announcement of which will be found on page 12. The Bates people make a business of building tractors of medium size, suited to the wants of the average quarter section farmer. This means a great deal. It reduces the cost so that any farmer can afford to own one and it is so much of a convenience and of so much value in many directions that really no quarter section farmer can afford not to have one. Complete information concerning this tractor may be obtained by writing to the Bates Tractor Company, 117 Bates St., Lansing, Mich.

Growing grain profitably demands that the farmer know all about the grains he is growing, the best methods of seeding, cultivating and harvesting. It is a fact that a great many farmers make no effort whatever to obtain this information beyond that gained in their own experience. In the advertisement of J. L. Owens Company on page 15 our readers are advised that a number of free grain books which give valuable information may be obtained by our readers without any cost. The only condition is that they fill out the coupon in the advertisement and forward it to J. L. Owens Co., 22 Chamber of Commerce Bldg., Minneapolis, Minn.

George D. Harrah, Newton, Iowa, advertises Short-horn bulls on page 45. Mr. Harrah's herd is one which produces annually a large number of calves. As the blood lines are of the most approved pure Scotch strains, it follows that buyers would necessarily find on the farm oattle of both sexes suited to their purposes. A great deal of care has been maintained in the selection of breeding animals for size and true Short-horn character. Some of the bulls offered for sale are good enough to fit for the show ring, while many others are entitled to places at the head of pure-bred herds. Mr. Harrah invites the personal inspection of these cattle. Inquiries, however, may be addressed to George D. Harrah, Newton, Iowa.

An advertisement of the Fuller & Johnson Manufacturing Co. will be found on page 13. This company manufacture an extended line of goods and machines needed on the farm. Some of the leading ones are corn shellers, saws, thrashers, cream separators, pumps, grinders, silo fillers, gasoline engines, etc. The advertisement deals in particular with the Fuller & Johnson double efficiency engine and tells why that machine is of unusual service in every department of farm work which requires power. The little farm pump engine is of intense value because it is not only useful in pumping, but other small work such as running an electric light plant, cream separator, etc., where the requirements of power are not great. Note that catalogs for each of the different machines may be obtained by putting a check mark in the coupon opposite in the catalog re-

quired and forwarding it to Fuller & Johnson Mfg. Co., No. 1 Ironton St., Madison, Wis.

T. A. Stevenson, Shannon City, Iowa, is offering a fine lot of Collie puppies of the very best of breeding. In the lot are a fine lot of fancy bred females by Imp. Southport Successor 141339, A. K. C., and out of Beatrice Lassie 161967, A. K. C. Beatrice Lassie's sire is the great breeding Collie, Cannon 137787, A. K. C., he by Champion Squire by Tytton by Champion Balgreggie Baronet. Beatrice Lassie has for her dam the noted Collie female, Imp. Veroli, by Champion Seedly Superior and out of Southport Vixen by Hartwood Bruce. If you want one of the finest bred Collies in the United States, do not fail to get one of these female puppies. See advertisement on page 25 and write him for prices, mentioning The Homestead.

M. G. Arnold & Son, Strawberry Point, Iowa, write concerning their herd of Poland China hogs as follows: "Our hogs are in fine condition. There is no disease in this part of the state. We have some mighty good values in bred sows sired by our 1,000-pound Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection, for we know if customers can see the sires and dams of sows we will make quick sales. We have used Orange Boy for two years and, as we cannot use him longer, we would let him go at $100. He is a son of Big Orange, has a perfect disposition and is a wonderfully smooth hog. He really ought to be worth $300. See advertisement on page 42 and write to M. G. Arnold & Son, Strawberry Point, Iowa.

Snapshot at Chester Kennels, showing some of the best fox terriers in the

state, T. H. Kaldenberg, Pella, Iowa, proprietor. He has stock for sale of all ages. See advertisement on page 25.

Taylor & Jones, Williamsville, Ill., write: "Our sales continue to be quite good, notwithstanding the holiday season is on and people do not favor going from home on business of any kind. Included in our recent sales we are glad to report the selling of two valuable Percherons to Jas. R. Graham & Sons, Menard county, Illinois. These gentlemen have been buying horses of us for many years and we are glad to know the stock we have been selling them has proved very satisfactory. Chas. Weber, Livingston county, Illinois, is one of our new customers. He came and selected a high-class Percheron that his neighbors all pronounced a good one. We have never had horses do better than ours are doing this winter and we extend to all interested parties an invitation to come and inspect our stallions and mares." See page 47.

Without question one of the greatest lots of Percherons of home breeding to be sold in the West this season are the ones that will be sold by D. D. Case, Giltner, Neb., and L. M. Phelps, Trumbull, Neb., sale to be held at Hastings, Neb., on February 5th. This sale will be a complete dispersion of the studs owned by both the above horsemen, and will contain all their valuable foundation material, horses that have cost them much money. They are all of desirable ages, and they are big and smooth. Everything of working age is broke to work, and there are several teams of big mares that are matched teams. A few stallions are offered that are choice horses. The remainder are colts that have every indication of making such. Send in your name at once that you may receive the catalog as soon as out. A postal card will do, but send it in now before you forget, and if you are interested in this breed you will want this week. Mention this paper when you write, and address for full information or catalog, D. D. Case, Giltner, Neb.

Chas. Irvine, Ankeny, Iowa, advises us that he would now offer to an appreciative buyer the imported Belgian stallion, Robert 2d de Rum. This horse is one of unusual size, character and form. These statements are borne out by the fact that he was winner of first and junior championship of the International Exposition as a two year old and first as reserve champion at Des Moines the same year. As a three year old he took third at the Iowa State Fair and captured the same honors as a four year old. He was first at Sioux City as a four year old, sixth at the Internaaional as a four year old and second as a five year old at both Sioux City and Des Moines. He has never gone into a show ring without carrying away a ribbon. As a breeder this horse has proven his merit, as anyone who visits the Irvinedale Farm may learn. Mr. Irvine also has for sale good stallion colts on which he will quote quite reasonable prices. Address Charles Irvine, Ankeny, Iowa, or call and inspect the stock. Visitors will be met at Ankeny on the Des Moines branch of the Northwestern and on the Fort Dodge, Des Moines & Southern if notice of their coming be given. See advertisement on page 46.

Hackney Auto Plow.

One of the most useful machines found on the modern farm is the Hackney Auto Plow manufactured at St. Paul. This plow is attracting wide attention because it is a one-man machine, the operator being able to handle it from the seat. It is also good for sawing wood, road grading, feed grinding, ensilage cutting, and all sorts of field work. See advertisement on page 8.

Pulling 100 Stumps a Day.

On almost every farm there is more or less space being wasted by stumps, hedge rows, willows or other trees that are really doing no good whatever. These can be pulled at a small expense and the land made to return a good profit. One of the best machines for work of this kind is the Hercules all-steel, triple-power stump puller, manufactured by the Hercules Manufacturing Company, 941 21st St., Centerville, Iowa. As many as 100 stumps a day can be pulled by a man after a few days' experience with this machine. An advertisement of the company appears on page 12.

Quelland's Hereford Sale.

Chas. Quelland, Williams, Iowa, will hold a dispersion sale of his herd of Hereford cattle on January 21st. The offering consists of twenty-two head, seven of which are bulls, the balance females. His great herd bull, Baldy, a son of Eureka, is one of the attractions of the sale. Among the good cows in the offering might be mentioned Alvira 10th, a nine-year-old cow by Alva. Ella A. is a good four-year-old cow by Wait A Minute 2d. Rose is a six-year-old daughter of the same sire. Alvira 13th is a good five-year-old cow that is a full sister to Rose. Grace is a daughter of Duke of Silver Valley and out of Rosebud. The cattle Mr. Quelland is selling are a useful lot in nice breeding condition and should make their purchaser money. Write him for any information you want as per his advertisement on page 43.

High-Yielding Wheat Wins Tractor.

On another page of this issue is shown a picture of a Big Four tractor and a set of Emerson-Brantingham lift gang plows which were won by Nash & Bridgeman, ranching partners on the Northern Pacific Railroad in the Sheilds Valley of Montana. This prize which was the big trophy of the recent land show held in Minneapolis, is worth $5,000 and was keenly competed for, there being more than fifty entries. The wheat produced by these ranchmen went nearly sixty bushels per acre. This is a strong testimonial for the fertility of the Sheilds Valley which was opened to the world in 1909 when the Northern Pacific railroad constructed its branch line through the valley. The valley is one of the best-watered valleys in the West and contains almost a million acres of good land. Further information about the country can be secured by addressing the General Passenger Agent, Northern Pacific Railway, St. Paul, Minn.

Farm Fence Bargains.

The advertisement of the Brown fence which will be found on page 10 of this paper presents bargains that may be obtained by dealing with the manufacturers of that fence. A new fence book has been prepared which describes and illustrates all kinds of farm fences, as well as lawn fence and gates. These are sold at remarkably low prices which are quoted in the catalog. For a copy of this book address Brown Fence and Wire Co., Dept. 34, Cleveland, Ohio.

Smith's Duroc Sale.

On January 25th, J. E. Smith, the well-known Duroc Jersey breeder of Victor, Iowa, will hold his annual sale of bred sows. The sale will occur at his farm, three miles southeast of town. Mr. Smith will sell fifty head of the best sows he has ever put up at public auction. Five tried brood sows, twenty fall yearling sows and twenty-five spring gilts make up the offering. The fall sows are sired by Smith's Crimson Wonder, a son of Crimson Wonder 3d, and Royal Col., the noted son of King of Cols. that Mr. Smith has been using in his herd. The gilts are sired by Royal Col., Victor Col., a son of Premier Col.; Professor Model, a son of Model Wonder, and a few by Crimson Wonder I Am, the noted Iowa grand champion of 1905. Mr. Smith is particularly well fixed when it comes to herd boars and parties who want to buy sows may rest assured that Mr. Smith's offering is bred to excellent boars. Four boars are being used in this herd: Smith's Crimson Wonder, Victor Col., Crimson I Am and Golden Prince. Smith's Crimson Wonder is a son of the Nebraska grand champion, Crimson Wonder 3d. Victor Col. is a son of Mr. Morton's great Premier Col. and out of an Ohio Chief-bred sow. Crimson I Am is by Crimson Wonder I Am and out of a daughter of Proud Col., that topped the Droz sale last winter, and Golden Prince is by Advancer 1st and out of Miss Hope, the dam of Golden Model 2d. Carlos C. Palmer will represent The Homestead at this sale. Write for a catalog, mentioning The Homestead. See this page.

J. E. SMITH'S ANNUAL SALE

OF

DUROC JERSEY BRED SOWS

To be Held at His Farm 3 Miles Southeast of

VICTOR, IOWA,

SATURDAY, JANUARY 25, 1913

50 HEAD will be sold, consisting of 20 fall yearling sows, 5 tried brood sows and 25 of the top spring gilts I raised this year. The fall sows are a grand lot, being sired by Smith's Crimson Wonder, my great herd boar, he a son of the Nebraska champion, Crimson Wonder 3d, and Royal Col., the great son of King of Cols. that I used in my herd so successfully. The gilts are sired by Royal Col., Victor Col., a good son of the noted Premier Col.; Professor Model, a son of Model Wonder and out of a Professor dam, and the noted Iowa grand champion, Crimson Wonder I Am. The sows will be bred to my four great herd boars, Smith's Crimson Wonder, Victor Col., Crimson I Am by Crimson Wonder I Am and Golden Prince by Advancer 1st and out of Miss Hope, the dam of Golden Model 2d. It is my ambition to offer the public better sows each succeeding year and I feel that I have a much better offering this year than I have had at any time in the past. If you want to buy some good Duroc sows this sale will afford you an opportunity to do so at reasonable prices and I will do my part to accord you courteous treatment in our business transactions. Write me for catalog, mentioning The Homestead. Send bids to Carlos C. Palmer, in my care. Auctioneers, N. G. Kraschel and J. L. McIlrath.

J. E. SMITH - VICTOR, IOWA.

NEXT WEEK'S SALE PROGRAM

Tuesday, January 14	Percherons, Thos. and James Woulf, Streator, Ill.
	Belgians, Thos. and James Woulf, Streator, Ill.
Wednesday, January 15	Short-horns, K. F. Dietsch, Scribner, Neb.
Thursday, January 16	Harris & Daniels, Louisville, Ky.
Saturday, January 18	Duroc Jerseys, C. J. Eggert, Jr., Aurora, Neb.

Woulfs' Percheron and Belgian Sale.

Fifty head of imported Percheron and Belgian stallions and mares will be sold Tuesday of next week, January 14th, by Thos. and James Woulf, Streator, Ill. Among them are a choice lot of young stallions and mares, yearlings to four years old, personally selected in Europe by Mr. Woulf and possessing size, bone, quality and breeding. All mares of breeding age have been served by high-class registered stallions. The advertisement appears on page 45. Look it up and arrange to attend the sale.

Geo. Kissinger's Forthcoming Poland China Sale.

The writer recently visited the progressive young stockman, Geo. Kissinger, Milford, Neb., and spent a little time in looking over the sale offering of bred sows that will be offered from this good Poland China herd of January 30th. This is the home of Hillcroft Model, one of the great boars of Nebraska. Also the young boar, Big Martin, the second high priced boar of the Lonergan sale last fall. Hillcroft Model is certainly one of the good sires of the breed in Nebraska and he is as active with his great size as any boar we ever saw. He is a wonderfully good hog, considered from every point. Big Martin is a fine young boar, and looks like a good show proposition for the big-type shows. He is smooth from end to end and has plenty of size. The sale offering is largely the get of Hillcroft Model and bred to Big Martin, and everything in the sale is either sired by Hillcroft Model or bred to him. Send in your name at once for the catalog and watch this paper for further announcements. Mention The Homestead when you write.

Huckstep's Mammoth Jacks.

The sixty head of Missouri and Kentucky Mammoth-bred jacks and jennets J. C. Huckstep, Eolia, Pike county, Mo., has at his Fairview Jack and Jennet Farm are a superior lot and are priced right and guaranteed right. Note page 46 for Mr. Huckstep's advertisement and when writing him kindly mention The Farmer and Stockman.

Krebs Offers Duroc Bred Gilts.

John Krebs, Riverside, Iowa, former owner of Wonder's Model, the second-prize junior yearling boar at the Iowa State Fair, 1912, is offering some fine gilts sired by this grand young boar that will weigh from 200 to 225 pounds. These are good gilts and largely of April farrow. They are bred for March and April litters to Col. J. 99573, one of the best sons of the noted Proud Col., now at the head of the Hanks & Bishop and Droz herds. The dam of Col. J. is a daughter of the noted Model Wonder, he a son of the Iowa State Fair champion, Crimson Wonder I Am. Any of our readers wanting Duroc Jersey bred gilts should write to Mr. Krebs, mentioning The Homestead. See page 39.

Wendt's Duroc Jersey Sows.

W. J. Wendt, Remsen, Iowa, would like to call attention to his change of advertisement in this week's paper, in which he offers to breeders looking for a good class of brood sows some well-bred females, safe in pig for early farrow. The boars which have been used this season are of as good blood as is obtainable, and Mr. Wendt's judgment as to individuals has secured him a very serviceable trio of mares of high quality. The sows offered are by Long Hero and C. Indicator, both boars that are breeding well. Sows by Long Hero have been to a considerable extent bred to C. Indicator and his work supplemented by a young boar, Grand King, by Crimson Climax out of West's Princess by West's Indicator. Crimson Climax, a successfully used boar in O. S. West's herd at Paullina, is a grandson of West's Hero and is out of a sow by Crimson Indicator. Grand King was secured from the herd of O. S. West, of Paullina, and his pedigree for generations shows the names of some of the best animals produced in that herd, as well as animals with enviable records in show. In this offering are some strictly first-class sows and it would be well to get an order in early this year if one is after that sort of stock.

FRANK IAMS' 1912 IMPORTED HORSES

Ikey Buyer:—Get Into **"Iams' Money Saving Game."** See **Iams** and his **"Peaches and Cream"** Imported Stallions, "Prize Winners," that he sells at **$1,000** and **$1,400** (few higher). Imported mares—**"Topnotchers"**—at **$700** and **$1,000.**

"Ikey," Be a **"Wise Guy"**—Buy **"Show Horses" of Iams**—who has crossed the Ocean **50 times** for horses and **sold 4,444 Registered Horses. "Iams' 30 years of Success"** make him a safe man to buy from at **Special Low Democratic Prices.** "Everybody Is Doing It."

Iams and Peaches and Cream Percheron Paris Winners.

Of big, classy, wide-as-a-wagon **"Peaches and Cream"** imported stallions and mares have arrived at St. Paul, Neb., by **"special train."** **"Ikey Boy,"** smile, and **Iams'** hundreds of satisfied customers **"will sit up and take notice"** that **Iams,** the **"King Bee"** horseman, is still in **"horse business,"** and **good** for 50 years, as the **"Peaches and Cream"** horseman. Iams **hypnotizes buyers with "real drafters"** at **bargain prices,** and having **"the goods"** as advertised. Iams' **"competitors"** and **"hammer knockers"** are **"boosting Iams"** by their **"knocks"** and making him on **"Easy street"** and known as the **"millionaire horseman."** Iams is selling these **big, fancy "Black Boys and Girls" cheaper** than ever before. Of more and better horses for the money—**$1,000 and $1,400** (few higher). Iams has

"100 PERCHERON AND BELGIAN STALLIONS AND MARES"

They are two to five years old, weight 1,700 to 2,500 pounds, 80 per cent blacks, 60 per cent **"ton horses." All "registered," approved** and **inspected** by **Governments** of **France** and U. S. and **certificates "stamped O. K."** All **sound," "bell-ringers" ("Iams' kind**—need no **"State Law"** to make **"them sound").** Many paris prize winners, **big flash actors.** They are **"eye openers"**—larger and better horses than you see elsewhere—big **"business propositions"** that make **"the wheels" work fast** under a **"live buyer's hat." "Georgie, dear," Iams,** the business horseman of 30 years' experience, made a **"big killing"** by buying his **100** stallions and mares in **France** and **Belgium** in October and November, 1912. **"War scare," "bad crops," "close money"** and **Iams' "cash"** caused the **"topnotchers"** and **prize winners"** to be thrown on **the market** (as the **best horses and prize winners** are not sold in Europe until the last part of the season). Iams will give his buyers the **benefit** of his **"good luck"** in buying. "Ikey Boy," come on down town—sing **Iams'** song—**"Everybody Is Doing It."**

BUY "TOPNOTCHERS of IAMS AND SAVE $1,000"

Iams is a **"big fly in the ointment"** in the **horse world.** He keeps the **"gang guessing."** His daily **"horse show"** will be a day of **"pleasure and profit"** and worth going 2,000 miles to see. Iams sells only **"topnotchers"** and **"crack business stallions"** and **"mares."** He handles no International **"tail ends," no "auction stuff"** or peddlers' stallions—no **American-bred** full bloods of **questionable breeding—(only imported horses). Iams** has the **"real pure drafters"** and makes every **statement good.** Buy of Iams and you won't get **"stung" in horse or price. "Dollie D.,"** waltz me around once again, **"Ikey,"** and land me at Iams' four importing barns and box office filled to the roof with **"Big Black Boys and Girls" at "reduced prices."** All the world knows Iams, the **big horseman,** who sells Iams' "Peaches and Cream" **"brand" of draft horses.** 1912 was Iams' **best business year.** 1913 promises to be a **"bumper year"** to Iams and his customers. He saved $300,000 to his customers in 1912. **"Watch his smoke"** in 1913. **Iams' 30 years of successful** horse business makes him a safe man to do business with.

HE SELLS HORSES "ON HONOR"--A BOY OR LADY

Can buy as cheap as a man. Iams is the **"square deal"** horseman. Buyers will find every statement in his **advertisement** or **catalog** as represented or you get the $500 **Iams** hang up. **Iams** guarantees to

SELL YOU A BETTER STALLION at $1,000 and $1,400

(few higher) than are sold to **"stock companies"** at $2,500 and $5,000. Imported mares $700 and 1,000. Iams gives 60 per cent breeding guarantee, pays freight on horse and **fare of one buyer.** He can furnish $1,500 insurance at **cost.** Iams **buys** and **sells** every stallion himself—saves buyers **all middlemen's profits.** He buys stallions by **"train load." He speaks the languages** (saving 20 per cent). He is not in **"stallion trust."** He pays no "slick salesman" commissions. He has no two to ten partners to share profits. He **pays cash** for horses and sells **"topnotchers"** by **"hot"** advertising and having **"the goods."** "Big Ikey," leave your happy home, December 20, 1912, or after, and buy a **"top stallion"** and pair of imported mares that bring colts that sell at $500. **"Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American Full Bloods"** with questionable breeding. Buy an imported stallion or mare of **Iams** that is **"branded"** and you will **"wear diamonds." Iams' "selling clothes"** fit all buyers—you won't leave Iams without a horse. **He sells horses to all.** Write for Iams' million-dollar horse catalog. **Iams' guarantees** are backed by **"half million dollars."** References: **First National** and **Omaha National Banks,** Omaha; Citizens State, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL - NEBRASKA

You will be given a good deal here. Write W. J. Wendt, Remsen, Iowa. See advertisement on page 39.

The Breeders' Horse Sale at Lincoln.

The sale of Percheron and Belgian horses that will be held at Lincoln, Neb., on January 22d and 23d under the management of C. F. Way, 419 First National Bank Bldg., Lincoln, and N. K. Frantz, Havelock, Neb., bids fair to be one of the great sales of the season, in that they are securing a great line of stuff from some of the very best studs of the state, and they will have them in nice form for this sale. Some of the very best Belgians and Percherons that we have seen listed for sale this winter will go in this sale. Get the catalog at once. It is a book that all horsemen should have and will be sent to all who apply. Mention The Homestead and address either of the above. See page 45.

Great Brood Sows at Private Treaty.

On page 42 you will find the advertisement of E. F. Escher, Manning, Iowa, who is offering his entire herd of brood sows for sale at private treaty. These will include thirteen of as good big-type Poland China sows as will be seen in any one herd in the state of Iowa and we care not where you go. All of his younger sows will be sold and here will be a great opportunity to buy some great sows at your own price. He is leaving the farm and these sows must be sold, because the new owner will want the farm in the near future. All of these sows are immune, and that is another desirable feature if you buy them. Kindly mention The Homestead when you write Mr. Escher.

Chester White Sows for Sale.

On page 43 will be found the advertisement of Thos. F. Kent, Walnut, Iowa, owner of the celebrated prize-winning herd of Chester Whites that made such a sensational show record at the leading state fairs the past year. Mr. Kent announces that he is now ready to sell bred sows and he has about 200 that are ready to ship at any time. He offers 100 head of junior yearlings and aged sows that will weigh from 300 to 500 pounds and he also offers 100 head of spring gilts bred for spring litters. These are sired by the most noted prize-winning boars of the breed and many of these are out of sows that are daughters of champion and grand champion boars. If any of our readers want some good bred Chester White sows they should lose no time in getting their order to Mr. Kent, as these sows will not last a long while, as the call now is so great that it is keeping him pretty busy shipping them every day. He also has a few good boars left and he can furnish anything you want in the Chester White line. Write him your order at once and kindly mention this paper.

The Triumph Incubator.

An advertisement of Neubert's Triumph incubator will be found on page 23. The Triumph is perfected and up to date on every point which goes to make a good incubator. Its manufacturer, Mr. Neubert, is an old-time poultry man whose experience has taught him every requirement of a successful and profitable incubator. He has included all these points in the make of the Triumph. Then, too, he has reduced the price so that his patrons save money by buying from him. His new catalog may be obtained by writing to R. F. Neubert, Box 887, Mankato, Minn.

Herman Baltz's Great Poland China Dispersion.

When the sale of Poland Chinas that will be made on January 24th by Herman Baltz, Fremont, Neb., is concluded, one of the great herds of Poland Chinas of central Nebraska will have passed into history. It has been a herd that has been well maintained at all times and many excellent hogs have been sent out therefrom. It is being dispersed when it has really reached the highest state of perfection that it has ever known, and at a time when the future of the hog business generally is most alluring. However, Mr. Baltz feels that he has done much toward the advancement of the breed, and that while he would gladly labor along the same lines much longer, except that he is getting well past the zenith of life and that he feels that his later years should yield him much of the enjoyment that he has foregone in younger days that he might accumulate the competence that he has now to enjoy. He now plans a trip to Europe next season and for this and other reasons already stated the entire herd will be dispersed. There will be included a lot of extra choice sows, some as good as we know of in any herd, and a few choice fall sows will be listed as well as a number of extra choice spring gilts. The herd boars, Henry Expansion by Dorr's Expansion and B.'s Golddust by Golddust Hadley, will also be offered. We would like to see a number of good Poland China breeders present at this sale. The offering merits their patronage. To those who cannot attend the services of J. C. Price, the field man for this paper, are at their disposal. Bids sent to him, in care of Mr. Baltz, will receive proper attention. Send for a catalog today. It is full of the details of the location as well as the breeding of the herd. Send for it at once and mention this paper when writing. See advertisement on page 39.

Proper Care of Horses.

No farmer can give his horses that care and treatment to which they are entitled and which makes them most profitable unless he knows a great deal about horses, about their diseases, means of cure of disease and the manner of treatment which preserves good health and soundness. We are pleased to call the attention of our readers to a treatise on the horse which has been prepared with the particular purpose of giving information to farmers. It is the work of a master hand and is valuable in every page and paragraph. It tells all the things that every horse owner ought to know. It may be obtained without cost by every reader of this paper who writes for it to Dr. B. J. Kendall Company, Enosburg Falls, Vt. See the advertisement on page 26.

Prichard & Sons' Draft Horses.

W. E. Prichard & Sons, Ottawa, Ill., the importers and breeders of Percheron and Belgian horses, report themselves as being highly pleased with the prospect of a strong trade. They say: "From one end of the country to the other bountiful crops have been harvested and prosperity has been assured. Farmers interested in the raising of pure-bred draft horses are now seeking to make investments in stock that will enable them to raise valuable horses on their high-priced land and thus insure them of fair interest on their capital. There is no surer way for a corn-belt farmer to largely increase his profits than to raise a few good strong draft colts each year. A good market for them is assured. Buyers on the big markets are paying almost fabulous prices for drafters of the right stamp and are continually complaining because there are so few of them. 'Strike the iron when it's hot' is a good maxim, and the American farmer has the opportunity before him now. The progressive American farmer has never been accused of overlooking a good thing and we do not believe he is going to overlook the splendid chances of the present. The scientist tells us where we came from, the philosopher tells us why we are here and the preacher tells us where we're going to; but the fact remains we are here at the present moment and it is up to us to do the best we can now. So we must all get busy. We have a splendid collection of big, rugged drafters, Percherons and Belgians, both imported and American bred, and we are selling them at right prices. We would like to hear from the readers of this paper as to what they need in our line. We can help you solve your horse problems and increase your income." Mention The Homestead when writing.

Wilkinson's Draft Horses.

In an announcement on page 39 of this paper H. P. Wilkinson & Bros. invite the attention of our readers to the fact that they are offering for sale imported Shire and Percheron horses of both sexes. These animals were selected from their native farms in the old country by H. P. Wilkinson himself. He bought just such horses as he would have selected were they for his own personal use and, as a result, buyers will find on the Wilkinson Farms high-quality horses of both breeds and either sex that cannot be bettered in any importing stables. The Wilkinsons do business in an economical manner and give the advantage of the saving to their buyers. They guarantee every animal to be as represented, make most reasonable prices and take every pain to satisfy their patrons. Those who wish to visit the farm will be met at either the Rock Island depot or at the Interurban railway if notice be sent in advance. Address inquiries to H. P. Wilkinson & Bros., Mitchellville, Iowa.

Lefebure's Annual Catalog.

The twenty-fifth illustrated annual catalog issued by Henry Lefebure, Fairfax, Iowa, has come to our notice and we particularly note that in keeping with Mr. Lefebure's enterprise the catalog just received is more attractive than any he has heretofore issued. The catalog contains a brief history of the Belgian horse which will interest all lovers of the breed. Reproductions from photographs of the different buildings on the different farms, as well as reproductions of a large number of horses made from drawings by Lou Burke makes the catalog of interest to any Belgian horse admirer. Mr. Lefebure's twenty-five years of experience have ripened his judgment until at the present time he is considered and generally recognized as one of America's best judges of the Belgian horse. He has learned to know the type and quality of horse that the corn-belt buyer demands and, being of Belgian descent and speaking the language fluently, enables Mr. Lefebure to dispense with the services of interpreters, which means a considerable saving in the purchase of 100 horses. Mr. Lefebure is rather a modest advertiser and another economical advantage he has over many importers is the fact that he keeps his horses out on the farm, where he raises a large part of the feed necessary to

B. C. MARTS' SALE OF DUROC JERSEY BRED SOWS AT HAMPTON, IOWA, WEDNESDAY, JAN. 22

40 BRED sows. The offering consists of tried sows, fall yearlings and gilts bred to our great herd boars, **Chief's Model 104713** by Model Chief by Ohio Chief and out of City Queen by Advancer; WONDER AGAIN 118151 by Crimson Wonder I Am and, HAMPTON KING 102077 by Model Jr. by Model Chief Jr. by Model Chief and dam by American Royal Jr. From point of individuality and blood lines I feel confident in saying that a better lot of stuff will not be offered this season. Send for a catalog, mentioning The Homestead, and arrange to attend the sale. Sale will be held in feed barn in town. Auctioneers, Mossman Bros. Homestead field man, Carlos C. Palmer. Address **B. C. MARTS, Hampton, Ia.**

GROOTERS' POLAND CHINA SOW SALE

BOYDEN, IOWA, THURSDAY, JANUARY 23, 1913

40 HEAD of the biggest and best that I have ever raised and offered to the public. I have a much better lot than a year ago and now can show both gilts and tried sows that are worthy to be compared with the leading herds of big-type Poland China swine. Sows bred to **Boyden Jumbo,** one of the very best sons of the famous **Big Jumbo** that Peter Mouw ever sent to anyone. There are but a few of the sons of this boar in service and here will be a good chance to buy some really first-class sows with this particular breeding. Send for a catalog and look over the blood lines they carry and see if their breeding won't suit you. Mention The Homestead. **J. A. Benson, Auctioneer.** Address

WM. GROOTERS, BOYDEN, IOWA

keep the horses. These savings, together with many others, are in favor of the purchaser, as Mr. Lefebure, when he prices an animal, takes cognizance of these savings and gives the buyer the benefit. See page 47 and if in need of a good Belgian horse write or visit Mr. Lefebure, mentioning this paper.

Eggers' Stallions.

Those of our readers who want to buy a good Percheron, Belgian or English Shire stallion should call and see P. J. Eggers, Denison, Iowa. He has a lot of yearlings, two and three year olds on hand and a few that are older. Mr. Eggers says he can sell as good a stallion for $1,000 as can be bought in the West. He has some, of course, that will cost a little more money, but he says he will sell a stallion as cheap as they can be bought anywhere on earth. He also has some good Percheron mares on hand and for sale. Some of these will weigh from 1,600 to 2,000 pounds. Write him about these at once and kindly mention this paper. See advertisement on page 45.

Robinson's Greatest Poland China Sale.

F. P. Robinson, Maryville, Mo., will hold a sale of mammoth Poland China hogs on January 29th, selling fifty head of tried sows, fall yearling and spring gilts. Mr. Robinson has been breeding these big Poland China hogs for eighteen years and is producing a superior big-type Poland China. He has paid particular attention to individual merit and has used such sires as he found would promote size and hold quality. His herd boars are as large as are found, they have made good as sires and a number of their get have been winners in the strongest shows where big-type Polands are shown. Pawnee Pete, the senior herd boar, weighed 950 pounds when two years old, passed the 1,000-pound mark as a three year old and could have been made to weigh 1,200 pounds. His dam, Miss Corwin 2d, seven of his daughters and ten head out of sows by him sell. Prince Tom and Prince Ito, sons of the noted Bell Prince, are the sires of a large number that sell. Prince Ito was lost while being fitted last summer and Mr. Robinson cannot estimate the loss, as he was an excellent individual and was proving an exceptional sire. Those who come to Maryville, Mo., on January 29th will be more than pleased with the size and quality of the big Poland Chinas Mr Robinson sells. He is going further than is customary in his guarantee by making the best guarantee on mail bids ever put out, so that the purchaser may see his hog, look it over and if not satisfied get his money back on return of the hog. Write Mr. Robinson now to put your name on his mailing list and kindly mention this paper when doing so.

K. F. Dietsch Short-horn Sale—Last Call.

We are this week calling attention for the last time to the sale of Short-horn cattle that will be made by the well-known Short-horn breeder, K. F. Dietsch, Orleans, Neb., sale to be held at Scribner, Neb., on January 15th. In previous issues of The Homestead we mentioned that this offering was particularly high class, containing cows and heifers that were suitable to go into the very best herds, as well as a choice selection of real herd bulls. The white bull, Victor Star, by Morning Star and out of Victor's Secret by Prince Victor, second dam Secret of Hill Farm 3d by Imp. Merry Hampton and tracing to Imp. Sunbeam by Royal Violet is a Cruickshank Secret that will be hard to duplicate anywhere in the western states. He is a bull of much substance, yet smooth and well covered in all parts with well-filled round, twist and flank. He is one of the sort that make the competition for the first places at the fairs, and he is bred well enough to head a choice herd of Scotch stuff. He is an April yearling. Another of the young bulls is the roan by Morning Star and out of Golden Rose 2d by Golden King, second dam Golden Rose by Golden Fame, and third dam is Imp. Rose Alpine by Clan Alpine. This is a beautiful young bull, and by many would be liked better than the white bull, being practically as good in all parts and will be a two year old the last of this month. There are a few other bulls nearly as good as the ones mentioned, and for some herds will be fully equal. The female end of the offering is particularly strong in choice young things. Many of them are Scotch and the others are well bred and they are of good conformation and good colors. The females of breeding age will be well along in calf to good bulls, or have calf at foot. We say again, keep this sale in mind, for there are good cattle here, and the future of the cattle business is certainly encouraging. Remember that the sale will be held at Scribner, Neb., and letters sent after the 10th of January should be addressed to that place.

Finley's Percherons and Jacks and Jennets.

W. J. Finley, Higginsville, Mo., proprietor of the celebrated Lafayette County Jack and Jennet Farm, announces that he will not hold a sale in March and that all the big, black Kentucky and Missouri-bred Mammoth jacks and jennets that would have gone in the sale are for sale at private treaty. Mr. Finley has forged to the front as a breeder of high-class jacks and jennets and has at his farm as great a string of fourteen and one-half to sixteen hands high jacks as one often finds. They are all blacks with mealy points, are broke and guaranteed. He also has in his barns ten registered Percheron stallions and a large part of these are imported horses ranging from two to eight years of age. Mr. Finley would trade any of these good Mammoth jacks and prices them so that they will make money in the stud. He also has an imported German Coach and an imported Belgian stallion that are priced right. Twenty Mammoth-bred jennets in foal to Dr. McCord should find ready buyers. Dr. McCord is one of the greatest jacks ever produced, he having been a great show jack and is the sire of great show and breeding jacks. Note page 39 for Mr. Finley's advertisement and when writing or visiting him kindly mention this paper.

Long's Big-Type Poland Sale.

On January 24th, James G. Long, Harlan, Iowa, will make his annual sale of Poland China brood sows and he will sell sixty head of the large-type kind. The Long herd has been well and favorably known for a number of years and he has bred some good hogs. His herd came into prominence largely through the boar at the head of his herd, as well as through the many sows he has bred. The herd boar referred to is B Wonder, one of the greatest sons of Fesenmeyer's old A Wonder, and he is one of the good individuals in the state, as well as one of the strongest breeders. This boar, B Wonder, could hardly help being a good breeding boar, as he is not only sired by A Wonder, but he is also out of Lady Mastodon 85th, one of the greatest sows that ever trod the soil of Iowa and she in turn is a daughter of old Columbia Chief 2d. Mr. Long is selling thirty head of fall sows sired by B Wonder in this sale and there are some outstanding good ones. He is also selling four daughters of old A Wonder in the sale and two of these are full sisters to this boar, B Wonder. The latter two sows are out of old Lady Mastodon 85th and the old sow will be sold in the sale. While she is getting a little age on her just now, yet she is still a great brood sow and the breeder who buys her will not go far wrong. The old sow will be bred to his great big boar, Mastodon Leader, and this ought to make a splendid cross. Another good sow is Miss Wonder 4th and she will also be bred to the big boar. This boar, Mastodon Leader, is one of the largest boars today in the state and he is bred to quite a few of the B Wonder sows that he is selling in the sale. Another boar that he has used this year is Black Surprise, a son of old Gold Medal, the boar Mr. Long formerly used in the herd. The spring gilts that he is selling are sired by Mastodon Leader and Proud Model and he will have some very good gilts in his offering. If any of our readers want A Wonder or B Wonder sows the Jim Long sale will be a good place to buy them. Write for a copy of his catalog and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Long, will be properly handled on day of sale. Remember this sale will be held in the heated sale pavilion, so there is no reason why the

GRAND DUROC JERSEY SOW SALE

SUPREME EFFORT OF SEASON AT

LOUISVILLE, KY.

THURSDAY, JAN. 16th

WE will offer sixty bred sows of splendid individual merit and unparalleled magnificence of breeding. Royal blood and show record in every pedigree. Twenty-five are bred to Kentucky Col., the sire of our great show herd. There will be twenty-five sows by him and bred to Maple Grove Col., Cherry Col. 6th, and Ringmaster. We will not show next year, so we are putting in our show sows and a lot of splendid show prospects. Among the special attractions are Zelina 26th (dam of Zelina 35th, that was champion sow at Illinois, Kentucky and Tennessee in 1910 and sold for $427), Zelina 36th (a prize-winning sow that sold for $355), and Zelina 45th (one of the greatest of the breed). She is bred to Kentucky Col. for an early litter. She will be a rare bargain for some one who knows Duroc Jersey merit. Usual accommodations at Hotel Wilton. Auctioneers, Colonels Igleheart and Wheeler. H. E. Browning will represent The Homestead. For catalogs address

HARRIS & DANIELS - MORGANFIELD, KENTUCKY

GOODENOUGH'S GREATEST ATTEMPT

IN AN OFFERING OF

HAMPSHIRE BRED SOWS

AT THE FARM NEAR

MORRISON, ILLINOIS,

MONDAY, JANUARY 27, '13

55 HEAD will be sold, consisting of 25 mature sows, 8 fall yearling sows and 22 spring gilts. The mature sows are sired by Teddy R. B., Bon Bon Beauty and Perfectum, a son of Bon Bon Beauty. The gilts are all sired by Shelby Lad and Perfectum. The sows will be bred to Dudie, first in the junior yearling class at the Iowa State Fair, 1912, and Shelby Lad, first in the junior yearling class at the Indiana State Fair, 1911. I will hold no sale in 1914 and for that reason I am cataloging a number of the very tops of my herd that otherwise I would not think of selling. This is the best lot of Hampshires I have ever sold at public auction and you will say so when you see them sale day. I raised them to sell and they are yours at your own price on January 27th. Write me for catalog, mentioning The Homestead, and arrange to be my guest sale day. Send bids to Carlos C. Palmer, Homestead field man, in my care, and they will be honorably treated. Fred Reppert, auctioneer. Address

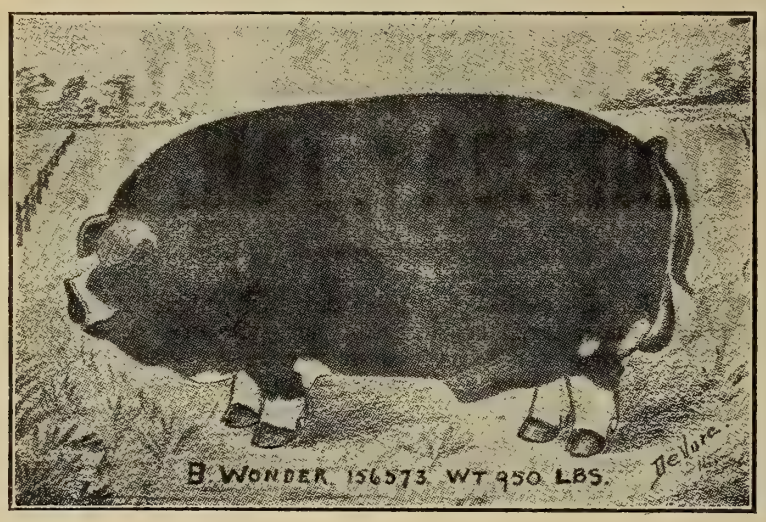
A. L. GOODENOUGH, MORRISON, ILLINOIS.

JAS. G. LONG'S GREAT SALE
B WONDER BRED SOWS

HARLAN, IOWA, JAN. 24, 1913

30 Daughters of B Wonder in Sale.
4 Daughters of Old A Wonder.

(Two litter sisters to B Wonder.)



THESE A Wonder and B Wonder sows are as good as have ever gone through an Iowa sale ring. There will be twenty-two choice gilts by my 900-pound boar, Mastodon Leader and Proud Model. These will be bred to Mastodon Leader and Black Surprise. Write for my catalog and mention Iowa Homestead. Address

JAS. G. LONG - - - HARLAN, IOWA.

Col. N. G. Kraschel, auctioneer.

M. T. White, field man for Homestead.

HERRING'S CLOSING OUT SALE DUROC JERSEY HOGS
THAT ARE IMMUNE

IOWA CITY, IOWA, TUESDAY, JANUARY 21, 1913

THERE are two by Crimson Wonder Again, three by Model Chief, eight by The Wonder, one by Model Wonder, three by Proud Col., two by Golden Model 4th and one by Model Chief 2d. Several of these sows have won honors in the ring. Also a few gilts along the same line of breeding. A major portion of the offering are bred to the great hog, **Golden Model 30th,** third at Des Moines, first at Hamline, first at Huron, third at Sioux City, 1912. This boar is included in this sale. In dispersing the Grundell herd we sell sows that we would not part with were we to continue breeding Durocs. The herd is the result of careful selecting and proper mating of the best blood of the breed. Sale at Graham's livery barn at one o'clock. Mention The Homestead when writing for catalog. Address

F. H. HERRING, KALONA, IOWA

H. S. Duncan, auctioneer. Carlos C. Palmer, Homestead representative.

JAMES WILLIAMS, MARCUS, IOWA
DUROC JERSEY BRED SOWS

WEDNESDAY, JAN. 22, 1913

42 HEAD of tried sows, fall and spring gilts of the choicest blood lines, and including some great types as well. Some of the best brood sows I have ever owned will be cataloged in this sale. Here are a few: Golden Queen 8th by Golden Model II., bred to Model Chief VII.; her daughter, Golden Queen 9th, by Ohio Blossom Col.; Miss Notcher Tolstoi by the famous Iowa Notcher, out of Lady Tolstoi 3d; Model Beauty 1st and 2d by Model Chief VII., dam Beauty Sensation, and a lot of other similarly bred sows. The gilts are by Model Chief VII. which gives them nice bone and stretch, and it will be found that they have a lot of quality besides. The herd boars are Model Chief VII., Col. Scott Jr. and Golden Col., all being bred in the purple. Get in your order for some of this better stock early and you will be sure of some real bargains. Ray L. Gribben will attend the sale for The Homestead in your interest. Address

Col. F. F. Luther, Auctioneer.

JAMES WILLIAMS - - - MARCUS, IOWA

When Writing to Advertisers Please Mention The Homestead

cold weather should stop those who want sows from attending the sale.

Goodenough's Hampshire Sale.

One of the most widely known breeders of Hampshire swine to be found in the corn belt is A. L. Goodenough, Morrison, Ill. Mr. Goodenough is one of the men who a few years ago spent his time and money exhibiting Hampshires at the leading state fairs and disseminating information regarding their superior merits. It is largely to such men as he that the credit is due for the present popularity of the Hampshire. Mr. Goodenough has been holding annual sales, but has come to the conclusion that in the future it will be best for him to hold sales every two years and put up a better offering at each sale. He will hold no sale next year and for that reason is putting in a larger number of the tops of his herd than he would otherwise think of doing. The sale will be held January 27th at the farm. Fifty-five head will be sold, consisting of twenty-five mature sows, eight fall yearling sows and twenty-two spring gilts. This is without question the best lot of Hampshire sows Mr. Goodenough has yet offered the public and to those who have attended his former sales this may seem like a strong statement, but the sows will back up the statement when seen on January 27th. The sows will be bred to two noted prize-winning boars and their produce should be in demand. Shelby Lad is one of the boars the sows are bred to and he was first at the Indiana State Fair in 1911 and Dudie is another great boar that was good enough to win first at the Iowa State Fair in 1912. He is a son of the noted Essig boar, Compeer. See page 37 and write Mr. Goodenough for a catalog, mentioning The Homestead.

Cooper's Great Poland China Sale.

To men who are interested in either the production of pure-bred swine or swine for the pork barrel, the inspection of a modern swine-breeding establishment would be of considerable benefit. Such an establishment can be seen on the farm of W. H. Cooper, Hedrick, Iowa, and all breeders of swine are cordially invited to visit Mr. Cooper on February 4th, which is the date he has set aside for his great brood sow sale, and look over his plant. It is doubtful if a better equipped hog farm can be found anywhere than the one owned by Mr. Cooper. It is always Mr. Cooper's ambition at his annual sales to drive through the sale ring as good a bunch of hogs as are sold anywhere. This year he has made a special effort to present greater attractions sale day than he has heretofore done. Twenty-five two-year-old and yearling sows and a number of fall gilts and some twenty spring gilts make up the offering. They are a great lot all the way through and we want to say that there are some sows to be sold in this sale that would be hard to duplicate in any herd. There will be spring gilts weighing over 400 pounds sale day. The offering is sired by such noted boars as Big Bone 2d, Mr. Cooper's present herd boar, that weighed 860 pounds in his two-year-old form; Big Ex.; Giant Look; Superor Look; Big Chief 2d; Chief Ideal; Chief I. X. L. 2d, and other noted boars. The sows are bred to Big Bone 2d; Big Expansion, the great breeding son of Dorr's Expansion; Chief Leader, and Giant Chief. Arrange to attend this sale if possible, as Mr. Cooper will be glad to have all present that can come. The catalog can be had by addressing a postal card to Mr. Cooper, mentioning The Homestead. See page 42.

DeYoungs to Hold Duroc Sale.

A. J. & L. L. DeYoung, Sheldon, Iowa, who hold a sale of Duroc Jersey bred sows on January 24th, have an offering differing from the average run in that of the sixty head to be sold they will put in only eight or nine tried sows, the rest good, big gilts that will weigh around 300 pounds by sale time. The entire offering is a strictly selected lot, being the pick of the two separate herds maintained by the above named gentlemen. Buyers who have in past seasons been accustomed to patronize their herds will find the offering even above the high standard of past years, and will make no mistake in being at the sale on the above date. The herd boars from which the sows come are herewith listed: King of Cols. Again by King of Cols., dam Lena J. by Orion Chief, a full brother to the twice International champion, is a cracking good boar and has been the sire of a lot of pigs of the same mould as himself. Phalas Col. by King of Cols. Again, dam Lady Phalas, tracing to Proud Advance, and Mr. DeYoung says has been one of the best breeding boars he has ever had, and the class of sows to be sold from him bear the statement out in every way. Crimson Advance by Advancer, dam Earl's Crimson Lady by the great Liberty Chief, and on her dam's side tracing to Crimson Wonder I Am, is a boar that has put some great backs and frames on the females by him. Crimson Sol. from Sol Frank's herd, has seen good service and put a good stamp on many of the females he has sired. With this line of boars as sires and Big Bone Climax by Crimson Climax, dam Challenge Girl VI., one of the choice products of O. S. West's herd, and Model Chief I Am by Model Chief Jr., dam by Top Notcher Again, one of the best young boars in northwestern Iowa, as boars used on the offering both the sows sold and their litters will be the paying sort. The sow stuff all carries acceptable and excellent breeding and is individually classy. That the herds are producers of a profitable class of stock is proven by the fact that at least two users of boars from here have had loads of fat hogs on the Chicago market which sold at the top when they were bought at the yards. Write now for catalog of the offering, mentioning The Homestead. Address A. J. & L. L. DeYoung, Sheldon, Iowa. See page 40.

H. Smith & Son's Short-horn Cattle Sale.

A Short-horn cattle sale that should interest many of the readers of The Homestead will be the sale that will be held by H. Smith & Son, Tobias, Neb., on March 18th. The cattle for this event have been carefully selected and comprise practically every choice young thing on the place. Some of the older cows that have proven themselves excellent producers will be retained to build up from again. It is usually a fact that such cows do not bring near their worth, and in this case it either means keeping them or keeping some of the choice young ones, and these gentlemen have decided to keep the older ones. Smith & Son's herd has long been regarded as one of the best of the state, and they have a right to the reputation, for they have at all times kept sires that were of splendid breeding, and that were good producers. Nearly the entire offering has been bred by them, and are chiefly the get of the great bull, Golddust (263019) by Morning Flash and out of Fabian, tracing to Imp. Golden Drop 8th by Gladstone. He was a bull of much substance, plenty of scale and a uniformly good breeder, as will be proven by his get that are in the sale offering. All cows of breeding age will either be bred to or have calves at foot by the great breeding bull, Roan Cumberland, by Cumberland's Last and out of Pinegrove Mildred 11th by Marquis Zenda and tracing to Imp. Mildred by Gladstone. The greater part of the yearlings in the sale are sired by him and they are certainly a choice lot. A Scotch heifer and a Scotch bull by him are good enough to interest anyone. The heifer is out of Palmetto Secret by Imp. Prince Oderic and tracing to Imp. Spleenwort by Royal Victor. The bull is of almost the same breeding, being out of Emily by Scottish Knight; second dam Empress by Ducal Crown and tracing to Imp. Spleenwort by Royal Victor. There are quite a number of Scotch cattle in the offering and all of the very best ages and will be presented in only such flesh as will keep them in good thrift. Taking this sale offering as a whole, the writer is of the opinion that it will be one of the very good offerings to be sold in Nebraska this winter and spring. We would like for our readers to keep the sale in mind. It will be one of the best opportunities of the year to purchase the get of two of the greatest Scotch bulls used in central Nebraska in some time, and those with their own best interest in mind should not overlook this sale. It would be a good plan to send your name on a postal today and ask that the catalog be sent you as soon as out. When writing mention The Homestead.

Theo. Martin's Short-horn and Poland Sale.

A young man who has made marked progress in the breeding of pure-bred live stock of his chosen breeds is Theo. Martin, Bellevue, Iowa. Only a few years ago this energetic young fellow started breeding Short-horn cattle, Poland China hogs and Plymouth Rock chickens in a very small way owing to a limited capital. By perseverance, hard work and careful financiering he has been continually improving his herds and flock by adding first-class individuals of the best breeding until at the present time the stock of these breeds to be found on his farm are a credit to his ability as a breeder. Mr. Martin has had a definite aim in mind from the beginning and he has been very successful in the carrying out of his plan. His herd of Short-horn cattle has increased until he finds it necessary to dispose of part of the herd and has decided to sell a select draft of excellent young bulls and females at public auction on February 13th. At the same date he will also sell thirty Poland China bred sows. The Short-horn offering consists of nine bulls and fifteen females. Among the bulls Monarch Viceroy, for several years Mr. Martin's herd bull, is one of the attractions. He comes from the Princess Royal family and is sired by the noted Purdy bull, Orange Monarch. Monarch Viceroy has been a consistent winner at the Iowa State Fair during the past three years and his show record has brought considerable advertising to Mr. Martin's herd. His sons and daughters have also been winning at the shows, which is the best recommendation any bull can have. Among the young bulls a June calf of the Rosebud family sired by Monarch Viceroy is one of the tops. He is one of those deep, thick, good quartered, mossy-coated fellows that everyone likes. A yearling Fashion bull sired by Monarch Viceroy is an extra good calf from end to end and will be admired by many on sale day. There are two young bulls just past a year old, one a Victoria and the other a Rosebud, that are of the right type. A Rose of Autumn calf in the offering is an especially worthy individual. Among the better things in the females is Sweet Fashion, a two-year-old show heifer by Monarch Viceroy. She was good enough to win fourth at the Iowa State Fair in 1912 and sixth in 1911. She is a remarkably thick, deep heifer and would grace any herd. Victoria's Pride is the show cow Mr. Martin has had on the circuit and is a worthy individual of the breed. She is sired by Fancy Pride and out of Victoria Alexa, second dam Imp. Victoria Mary, the noted cow that has produced so many things in the Lind herd. We have not space to go into further details re-

ELLERBROEK'S BRED SOW SALE

AT SHELDON, IOWA,

TUESDAY, JANUARY 21, 1913

75 : : HEAD THAT LEAD THE : : 75 BIG-TYPE POLAND CHINAS

30 Matured Sows, 25 Fall Gilts, 20 Spring Gilts, Tops of Herd. Nothing but Extremely BIG-TYPE POLANDS

Friends:—In the bereavement of Mr. Ellerbroek we have decided to cut down our herd to some extent, and therefore we might nearly call it a **dispersion sale.** The sale will include the best brood sows.

Thirty matured sows, that are peerless. The 700 and 800-lb. kind, by Big Bone. A Wonder 107353, A Wonder 143421, Big Orange, Gritters' Longfellow, Beauty's Jumbo, **Big Jumbo.** A Wonder Next. Long Price. Choice Chief Price, Choice Price, Young Wonder, Chief Leader, etc.,

Twenty-five fall gilts, that are **Queens** in the **Big Type.** By A Wonder 143421, A Wonder 107353, Longfellow again 170275.

Twenty spring gilts of real brood sow prospects, by A Wonder 143421, A Wonder A 176989, Longfellow Again 170275, Mouw's Tecumseh 181765, Nolan's Wonder 176779, Big Bone Again 183139, and out of these **Great Matured sows** which go in the sale.

This offering will be bred to boars of reputation, such as A Wonder 149421, A Wonder A 176989, Longfellow Again 170275, Peter's Jumbo 190793, he by Big Jumbo, Sampson 187761, he a grandson of old Chief Price, Ellerbrook Wonder. Write now at once, for an illustrated catalog, giving all information. Don't delay. Sale in heated tent. Sheldon is located on three roads. Come and attend. You are welcome. Address all inquiries to

Auctioneer, J. A. Benson. **Peter Ellerbroek Estate, Sheldon, Ia.**

GRITTERS'

POLAND CHINA SOW SALE

HULL, IOWA,

WEDNESDAY, JAN. 22, 1913

70 HEAD of the Real Big-Type Poland China Sows and Gilts. 70 HEAD

THERE will be fifteen head of tried sows bred to some of the greatest boars I have had in the herd for the last few years; twenty head of fall gilts by the same sort of boars, and thirty-five head of the best spring gilts that I have raised for several seasons. These will be bred to the following sires: A Wonder A, A Wonder Again and Sioux Chief, the latter by Gold Dust Hadley, dam Big Gem. This boar is a half brother to that first-prize boar at the Nebraska State Fair in 1911, also to the first-prize pig of 1912. He is a splendid pig and such a cross should make some great pigs from my big stretchy sows. The sow offering is the best I have had for a long time and there will be something here to please the most discriminating. Send now for the catalog of the sale and plan to attend. J. A. Benson, auctioneer. Mention The Homestead. Address

E. GRITTERS, Hull, Iowa.

garding this offering, but suffice to say that it is up to date in every respect and worthy the patronage of Shorthorn breeders in general. The Poland China offering consists of an extra good lot of big, smooth, heavy-boned sows and gilts and are bred to Mr. Martin's noted boars, Big Jumbo and Dude's Masterpiece. Watch for further particulars in later issues.

Wigstone Bros. Offer Poland China Sows.

On page 42 will be found the advertisement of Wigstone Bros., Stanton, Iowa, owners of one of the best big-type Poland China herds in western Iowa. These gentlemen will not make a public sale this winter and have concluded to sell all their sows at private treaty. Among these are some of their noted prize winners, daughters of Prospector, Big Jones 3d and other noted boars. Many of these sows are bred to their 1,027-pound boar, Chief Price Again II, also a second-prize winner at the Iowa State Fair last fall. Now is the time to buy these sows and get your pick. Write Wigstone Bros. at once and kindly mention this paper. If you are going to want big-type Poland China sows here is one of the greatest opportunities of the season to buy them at private sale.

Free Veterinary Advice.

An announcement of unusual interest to live stock owners is being made by the Dr. David Roberts Veterinary Company, Waukesha, Wis. Dr. Roberts, who is known to many of the readers of this paper as a prominent veterinarian, has planned to widen his field of usefulness by coming into personal touch and correspondence with stock owners wherever located. He gives an open invitation to stock owners to write him about any disease or ailment of their herds and receive his personal reply. There is to be no charge for this. Dr. Roberts undertakes personally to answer free all inquiries, the only condition being that a two-cent stamp shall be enclosed to pay the postage on his reply. Dr. Roberts would also appreciate it if all inquirers when writing would give particulars as to what kinds and how many animals they own. Dr. Roberts can always be reached by phone or telegraph where his services are sought in emergencies. His practice is national, and he arranges to go anywhere to personally treat valuable animals. In writing for advice, direct simply to Dr. David Roberts, Waukesha, Wis. See advertisement on page 26.

Sol Frank's Sale Announcement.

Sol Frank, Sioux City, Iowa, will sell Duroc Jersey bred sows at his farm in north part of Sioux City on Friday, January 24, 1913. Breeders who have in past years been using animals from this herd know that the offering will be of the same kind as he has always put out, and that buyers will be certain to find sows of refinement and quality that are the good producing kind. Mr. Frank has been careful in selecting his breeding stock to secure good backs, the high-arched, strong-backed kind, deep in body and we noticed that his spring gilts are every one up squarely on their toes and with plenty of clean, hard bone. This herd has produced some dandy prize-winning stock during recently years and two of the better gilts in the sale this year are from the same litter as the first-prize boar pig at the 1912 Interstate fair. Quite a number of the offering are by the well-known show boar, Sol's Crimson Wonder, a sire not only possessing winning qualities himself, but also having the faculty of transmitting them to his offspring. In 1911 at the Interstate fair the boars from a litter of pigs by this hog attracted more attention than any single show at that competition, carrying away the leading prizes for which they were shown. In this sale there is at least one gilt of the same breeding as that litter, out of the sow, King Solomon's Daughter. The brood sows in this herd are a great lot, taken all through, as good a collection as any breeder could wish for. They are the kind that ought to produce well and Mr. Frank can show gilts that furnish all the necessary proof of their reproducing qualities. The herd boars used are richly bred in good strains, as the following list will show. They are Frank's Holiday by Crimson Climax, one of the best of the good bunch of herd boars sent out by O. S. West this season; The Harvester by Indicator's Model, and Red Light by Crimson King, the latter the first-prize hog of the 1911 Interstate. The sale will be held at the farm, which is reached by taking a Pierce and Jackson car to 34th street and then taking a short walk of four blocks to the farm. The catalogs are ready and will be sent at once on making application. Write now, mentioning The Homestead. Address Sol Frank, Sioux City, Iowa. See advertisement on page 40.

BALTZ'S GREAT POLAND-CHINA DISPERSION

WILL BE HELD AT THE FARM NEAR FREMONT, NEBRASKA, FRIDAY, JANUARY 24, 1913

THIS sale will comprise some 45 head and marks the complete dispersion of this noted herd. Every top thing on the farm will go in this sale. Tried sows that were not for sale at any price heretofore will be consigned. The very best of the fall sows and the pick of the last spring crop complete the offering. They are bred to the great boars, **B.'s Great Hadley, Henry Expansion** by Dorr's Expansion and **B.'s Golddust** by Golddust Hadley. This will be one of the greatest chances, east or west, to secure choice breeding stock this season. Buy one of these top sows to raise your next herd header. Buy any of them as an investment. They are gilt-edged security. J. C. Price is the field man. Col. H. S. Duncan is the auctioneer. Mention The Homestead when you write for catalog. Address

HERMAN BALTZ - - - FREMONT, NEBRASKA

TOO LATE TO CLASSIFY.

IMPORTER AND BREEDER OF PERCHERONS AND BELGIANS

CUSTOMERS get their money's worth on stallions and mares. Every animal just as represented. Can't be under sold by any firm, considering quality. All young, from yearlings to five year olds. Farms one mile from town. We meet trains.

C. G. GOOD - OGDEN, IOWA

Duroc Jersey Bred Gilts

20 March and April gilts sired by Wonder's Model (2d Iowa 1912) and bred to Colonel J 29573, a great son of Proud Col. dam by Model Wonder. Gilts weigh 200 to 225 pounds. Price low. Address **JOHN KREBS - RIVERSIDE, IOWA.**

PERCHERONS FOR SALE Stallions and mares, A Short-horn bull 5 months old. W. H. Miller & Sons, Independence, Ia.

TOO LATE TO CLASSIFY.

LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10

SELL, or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

W. J. FINLEY, - HIGGINSVILLE, MO.

ANDERSON'S CHESTER WHITES

15 FALL and yearling sows for sale and 70 fall pigs weight around 75 lbs. Buy your next year's new blood now. Will ship anywhere c. o. d. at farmers' prices. Also 60 Barred Rock hens and pullets for sale. Address **ED. ANDERSON, Route 2, ALTA, IOWA**

BULLS READY for SERVICE From YEAR RECORD COWS

PAULINE QUEEN JOHANNA has just finished a year record of 1,024 lbs. of butter from 25,660 lbs. of milk. Her yearling bull and other bulls of this class on hand and for sale. Also some fine young cows. Write us for information; also let us know your wants.

CHICAGO STOCK FARM,

R. B. YOUNG, Prop., Buffalo Center, Iowa.

DO YOU WANT

The **COW** that will

improve your Dairy

Then try the

GUERNSEY

Write

The American Guernsey Cattle Club,

Box I. H. Peterboro, N. H.

SHIRE AND PERCHERON STALLIONS AND MARES

IMPOTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. of Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

DE YOUNG'S DUROCS

POSITIVELY no more boars for sale. Bred sow sale January 24, 1913. Send now for catalog.

A. J. De Young, Sheldon, Iowa

WENDT'S DUROC JERSEY BRED SOWS

GROWTHY brood sow prospects by C. Indicator and Long Hero, bred to Grand King by Crimson Climax, and above boars are individuals on which they could be used. Stretch, bone and size specialties. **W. J. WENDT, Remsen, Iowa.**

Short-Horn Bulls for Sale

I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address

PERRY O. BROWN, Lamoni, Iowa

FOR SALE. Registered Percheron stallion coming 7 years old, weighed on New Year's day, 2,110 lbs., sound, sure breeder. Sold for no fault. Address **JOHN E. WALLACE, Weldon, Iowa.**

FOR SALE--BIG-TYPE, PROLIFIC, BRED GILTS

AT from $35 to $40, and aged sows at $50 to $60, and a few choice September 3d fall pigs at $20. All healthy and the kind that sell at sight. Will sell two herd boars after January 1st. Address

J. B. HEISEL, - Grinnell, Iowa.

SHORT-HORN BULLS Two 15 mos. Others younger. Reds and roans, grandsons Cumberland's Last. J. T. Swearingen & Sons, Hedrick, Ia.

EAKLE'S DUROC JERSEY BRED SOW SALE

TO BE HELD AT

PROPHETSTOWN, ILL., JANUARY 21, '13

45 Head Aged Sows, Yearlings, Fall Sows and Spring Gilts 45

THE gilts are sired by S. E.'s Premier Col., S. E.'s Defender, Manley, S. E.'s Crimson (a son of Helen's Duchess, the sow that topped H. E. Browning's sale and Crimson Wonder I Am), Nebraska Wonder and others. The aged sows are sired by Proud Advance, Col. Browning, Morton's Top Col., Model Chief, Top Col., Model Chief Again and Defender. The fall sows are sired by S. E.'s Crimson Wonder, Manley and a son of Old Top Col. The gilts are mostly sired by S. E.'s Premier Col., S. E.'s Defender, Manley, Crimson Wonder I Am and Nebraska Wonder. The special attractions are a sow by Model Chief, a sow by Model Chief Again, a gilt by Crimson Wonder Again, a gilt by Manley and out of Lucy Wonder 112, two gilts by S. E.'s Defender and out of a Model Chief dam, two gilts by S. E.'s Premier Col., and out of a Model Chief dam, and two gilts by S. E.'s Premier Col., and out of a Chief's Col. dam. These sows are all bred to S. E.'s Defender, S. E.'s Premier Col., or Captain Model (a full brother in blood to Golden Model). Auctioneers, C. C. Plumley, H. S. Allen and Geo. J. Fruin. Send mail or wire bids to H. E. Browning, representative of The Homestead or either of the auctioneers. Catalogs are now ready.

S. E. EAKLE & SON, Prophetstown, Whiteside County, Ill.

RUDE & SON'S DUROC JERSEY BRED SOW SALE

MOOREHEAD, IOWA, JANUARY 22, 1913

45 HEAD: 14 MATURED SOWS, 7 FALL SOWS, 24 GILTS 45

THIS is the best offering we have ever sold and no better will be sold this winter. We have selected fourteen of our very best matured sows—daughters of **Lafollette, Col. Willetta, Grand Master Col., Proud Col.** and **Golden Wonder.** The seven fall sows are sired by **Iowa Col., Golden Wonder** and **Model Chief's Last.** We have also selected the best gilts we have in the herd for this sale. These will be bred to our two great herd boars, **HIGH CHIEF,** first prize Iowa State Fair boar, and **IOWA COL.,** the 900-pound son of Tippy Col., and a few are bred to a son of Crimson Wonder Again. Write for our catalog and mention Homestead.

RUDE & SON, MOOREHEAD, IOWA

Col. N. G. Kraschel, auctioneer. M. T. White, field man for Homestead.

DE YOUNG'S DUROC JERSEY BRED SOWS

Sale at SHELDON, IA., JAN. 24th

60 HEAD picked from the best in both these herds. A strictly high-class sow sale, including about eight tried sows and yearlings, the rest spring gilts, weighing about 300 pounds each by sale day. Herd boars, King of Cols. Again, full brother to Defender; Phalas Col., Crimson Sol and Crimson Advance. Sow stuff bred to Big Bone Climax and Model Chief I Am, royally bred boars both of them. These boars are all excellent individually and carry popular producing stock. Write, mentioning The Homestead. Address

A. J. & L. L. DE YOUNG, SHELDON, IA.

J. A. Benson, auctioneer. Ray L. Gribben, field man.

FRANK'S DUROC JERSEY BRED SOWS

SIOUX CITY, IOWA, FRIDAY, JANUARY 24, 1913

40 HEAD of good prospects for brood sows, including two yearlings, six fall gilts and thirty-two spring gilts. Sows all safe in pig for early farrow, and in nice condition, not loaded with fat nor too thin. A number of the better things in the sale by the show boar, Sol's Crimson Wonder, a sire of both good show animals and herd headers. Sire of the great spring litter at Interstate Fair, 1911. Others by Indicator's Model and Crimson King, bred to the above boars and The Harvester by Indicator's Model, Red Light by Crimson King and Frank's Holiday by Crimson Climax. Sale at farm in north Sioux City. Take Pierce and Jackson car to 34th street and go west direct to farm.

Cols. H. S. Duncan and A. A. Lyle, auctioneers.

SOL. FRANK - - - SIOUX CITY, IOWA

Herring's Smooth Price Sale.

On January 23d, Chas. Herring, Columbus, Neb., will make his annual big-type Poland China brood sow sale and he will sell fifty-five head of outstanding good sows. The Herring sale is a most important one and for many reasons. First and foremost, because he is selling a great offering of big-type sows, bred in the blood of the most noted large-type sires, and secondly because of the number of daughters of his noted herd boar, Smooth Price, and the number of sows bred to him. Smooth Price is one of the best-known sires today in Nebraska. He is a son of Chief Price 2d by old Chief Price and out of Smooth Maid by Sunshine Chief. He was bred by Peter Mouw and he is one of the recognized breeding boars today in Nebraska. He is the sire of Big Joe and Big Ben, boars that are now used in the Henry Fesenmeyer and J. W. Pfander herds at Clarinda, Iowa, and these are two of the most promising young Poland China boars today in Iowa. He is also the sire of Oakland's Big Surprise, the third-prize boar at the Nebraska State Fair in 1911, and he weighed 780 pounds at eighteen months of age. This boar is a full brother to Mr. Fesenmeyer's Big Joe, and is an outstanding good one. Mr. W. E. Zimmerman, Neola, Iowa, has a son of his at the head of his herd and he is an outstanding good one. Other sons of his head some of the other leading herds throughout the central West, and his daughters have also been in strong demand by the best breeders. In his coming sale he will sell thirty Smooth Price sows and ten head will be bred to him. Mr. Herring will also sell two splendid daughters of old Big Bone, one daughter of old A Wonder, three daughters of Orange Chief, six daughters of Long Wonder and ten gilts by Smooth Jumbo. Nos. 1 and 2 will be Smooth Molly and Long Molly, both daughters of Big Bone, and both are bred to Smooth Price. One of these sows has weighed over 900 pounds, and both are excellent big-type sows. No. 3 is Long Molly, a daughter of Smooth Price and she is a litter sister to Fesenmeyer's Big Joe. Her dam is Big Mollie, a daughter of Big Bone, and is also a litter sister to Nos. 1 and 2. She is bred to Smooth Jumbo for an early litter. Mr. Herring also sells a full sister a year younger. Another good sow is Smooth Molly 2d, a two-year-old daughter of Smiith Price and out of Smooth Molly by Big Bone, and she is bred to Smooth Jumbo. Two of her litter sisters also go in. Extra 3d, a fall two year old by Smooth Price, out of a daughter of old A Wonder, and two of her litter sisters, are among the choice sows cataloged for the sale. The dam of these sows will also be sold in the sale. There are a few outstanding good gilts in the sale by Smooth Price and Long Wonder. Mr. Herring is selling a splendid lot of big-type sows, bred in the blood of the most noted large-type sires of the breed. Those of our readers who are wanting breeding of this kind will find about what they are looking for in the Herring sale. Write Chas. Herring, Columbus, Neb., for catalog at once and kindly mention The Homestead. Our M. T. White will attend this sale for The Homestead and will care for any bids sent in his care. See page 41.

Gritters' Poland China Sow Sale.

E. Gritters, Hull, Iowa, will sell on Wednesday, January 22d, at his farm north of Hull, the greatest lot of the genuine big-type bred Poland China sows that he has ever offered to the supporters of the breed. There will be plenty of chances to get good stuff here, as the catalog has seventy head listed, which will include fifteen tried sows by Gritters' Longfellow, Long Prospect and Longfellow Jr; twenty fall gilts mostly by A Wonder Again, a very few being by Long Surprise, and thirty-five spring gilts by A Wonder A, A Wonder Again, Big Surprise, Long Surprise and Long Prospect. It is hardly necessary to say much about the breeding of these boars because they are well known wherever there are big-type Poland Chinas. Mr. Gritters has sent both young boars and bred gilts from all of these sires to many parts of the country and it should be remembered that this was the herd which produced the famous A Wonder, the boar which has made such a wonderful record for himself and for the breed, as well in the hands of every person who has owned him. All of these boars have been used in service that could be had, and in addition there were two young boars, one by A Wonder Again and out of a sow, Good Mollie, by North Star Chief; the other by A Wonder A and out of a sow by Longfellow Jr. Both these younger boars are good individuals, so that people who buy at this sale will have line-bred Poland Chinas of the recognized big type, and may be certain of securing all the stretch and size that will be desired. Mr. Gritters' sow stuff is all big and his gilts, especially his fall gilts, are as good in size as he has ever put in a sale. Nor is mere size the only good feature about them. They are smooth, with good backs, the strong, highly arched back that denotes strength, and the sows from which they come are noted for the size of the litters they produce, a very important point to look for in buying prospective brood sows. Another matter of interest that Mr. Gritters has to announce is that his famous herd boar, A Wonder Again, is for sale. He will not be put up for auction at the sale, but Mr. Gritters merely takes this method and time to announce his being on the market. Write today for the catalog of this sale and mention this paper when you write. Address E. Gritters, Hull, Iowa. See advertisement on page 39.

Ellerbroek Estate Sale of Poland China Sows.

The annual sale from the well-known herd of Poland China hogs that the late Peter Ellerbroek had so thoroughly established, will be held on Tuesday, January 21, 1913, at the farm at Sheldon, Iowa. This sale will consist of seventy-five head, divided as follows: Thirty matured sows by boars of size and accomplishment in the breeding line, twenty-five fall gilts by a string of sires equally as well known, and twenty spring gilts, all of the same sort that Mr. Ellerbroek was so noted for raising. This herd has long been a leader in the production of the big type and many breeders have secured their stretchiest stock at this place. A glance at the names and the blood lines of the boars that have sired the sows that will be sold on the above date will convince any breeder of the excellent breeding to be secured at the sale and the same sort of boars have been used in getting the offering bred. Of course it will be largely an A Wonder sale, not merely because this great sire has been used in the production of the sows to be sold, but because there is so much of the same line of breeding that made him the boar that he is in the other other sires that are found in the pedigrees of the offering. Besides A Wonder 143221, there are as sires A Wonder A, Next, Big Orange, the boar that Geo. Castle, of Inwood, Iowa, sold at such a long price to go into southern Iowa; Big Jumbo, Gritter's Longfellow, A Wonder A, Big Bone, Longfellow Again and others of the some kind. For service boars the following were used: A Wonder, A Wonder A, Longfellow Again, Peter's Jumbo by old Big Jumbo, Sampson, a grandson of old Chief Price, and Ellerbroek Wonder. The sows are all big, stretchy sows with the high-arched backs that go so uniformly with this type. They stand well on their feet, have for the most part good, big bone and will be in the right condition to go into other herds and make a success there. Full information as to the breeding of the sows may be obtained from the catalogs, which may be had on application and by mentioning the paper you saw this in. Write for them now, and by all means plan to be at the sale, for there will undoubtedly be a good chance to secure some very high-class breeding animals at a figure much lower than at later sales. This statement is made in view of the fact that the present season finds the demand for good brood sows more than usually heavy, and the supply will certainly not grow any larger as the season advances, so we think that the man who gets in early will pick up the best things at the best prices. Write, mentioning The Homestead, Mrs. Peter Ellerbroek, Sheldon, Iowa. See advertisement on page 39.

Paulsen's Great Hampshire Sow Sale.

Without question the greatest lot of Hampshire bred sows that have ever been offered at public sale anywhere in the West will be put up by the well-known breeder, C. P. Paulsen, Nora, Neb., on Saturday, January 25th. This sale will comprise some 100 head, all selected with the idea of adding strength to this sale. It will include show sows of the very highest type and brood sows of known worth as well as a number of great promise. The writer recently visited the herd and we were of the opinion that it was the greatest lot of Hampshires that we ever saw assembled for one sale. They include stock that are all descended from prize-winning dams or sires. They are descended from the tops of practically all the noted herds of the country today. It is a matter of history that Mr. Paulsen rarely attends a public auction but that his herd is enriched by the addition of the tops of that sale. There will be thirty sows that have raised litters, about thirty-five head of sows that were a year old this fall, but that have not raised litters, and the remainder will be choice spring gilts. The fall sows are nearly all sired by the great breeding and show boar, Nebraska Top by Iowa Top by Wonderful and out of the great sow, Anna Lee. He has proven himself a wonderful sire and those who attend will certainly be impressed with the excellence of these fall yearlings. The spring gilts are mostly sired by the Illinois junior champion boar, Everett True 3d by Everett True and out of the great sow, Mildred B. by Bon Bon Beauty. Most of the tried sows are bred to Everett True 3d, while most of the fall sows are bred to Paulsen's Gen. Allen by Nissen's Gen. Allen, and the spring gilts are mostly bred to DeKalb King 11th by Major by Stone's Duke. Major is probably the best, if not the only, living son of the great Stone's Duke, and the breeding is hard to equal. Nissen's Gen. Allen sold in the Nissen sale last fall for $500, which is pretty good evidence how the breeders rated this great boar. Probably the greatest show prospect in the sale or that will in all probability be offered this winter, is Golden Maid 3d by Clara's Duke and out of the great sow, Golden Maid (3400). Clara's Duke is by the great Blythedale Jim. There are many that we would like to mention in detail, but the catalog tells the story in detail and we would urge that our readers send for it at once. Mention The Homestead when you write and remember that if unable to attend this sale that you may send bids to J. C. Price, representing The Homestead, and your interests will be faithfully looked after. See page 41.

The Forthcoming Hereford Sale at Grand Island.

The combination sale of Hereford cattle that will be held at Grand Island, Neb., on February 14th and 15th, will be one of the great sales of the year in the West. Well over 100 head of cattle are listed for this event and are drawn from many of the most prominent herds of the country. The sale is under the management of Robt. D. Mousel, Cambridge, Neb., of the firm of Mousel Bros., of that place, and among the best known Hereford cattle breeders of the entire country. The consignments are of the order not always found in combination sales, but as Mr. Mousel insisted that only top individuals be entered for this sale, it will be one of particular merit. E. C. Rodwell, Cambridge, Neb., will consign twenty bulls and they are a very high-class lot. They are the get of his great breeding bull, Beau Denver, and many extra good ones are in the lot. Geo. O. Benger & Son, Callaway, Neb., also list some choice ones, but their offering is mostly females. Gudgell & Simpson, Independence, Mo., will be on hand with about twenty head of their best productions; O. E. Green, Genoa, Neb., will consign about a dozen head from his famous Cloverdale herd; A. C. Smith, Lexington, Neb., will list about fifteen and F. W. Mues, Arapahoe, Neb.; G. E. Stryker, Rising City, Neb.; Thompson Bros., West Point, Neb.; Hugh Whiteford, Guilford, Mo., and Dauchey Bros., Stockville, Neb., will all consign a few head each. At the sale made by Messrs. Mousel and G. G. Clement at Grand Island last winter some excellent bulls were offered. Many expressed the opinion that they were the best that they had ever seen in one sale and doubted if a like offering would again be offered soon. The sensations of the sale were the bulls sired by the great Beau Mischief. We wish to state for the benefit of intending buyers of herd bulls that we think the offering of bulls got by Beau Mischief are, as a whole, better than last season, and the tops are fully equal to the ones sold last year. A senior yearling calf called Beau Contender is a fitting equal to the great Beau Mousel sold last season, and Beau Lindell, the late junior calf, is certainly up to Beau Kinzer, that was thought by some to be the best bull of the auction last season. Beau Mousel went to Dr. T. D. DeWitt, Colorado Springs, Colo., and Beau Kinzer went to the old established herd of Steele Bros., Richland, Kan. Beau Contender is out of Mary Helmig 3d by Princeps A. by Princeps 4th and Mary Helmig 3d had for dam Mary Helmig by Beau March On. Beau Lindell 2d is out of Lilac, out of Lilly, a full sister to the great Mapleton Hero. There are many more nearly as good and all are as well bred. We will mention them further in later issues of The Homestead. Just bear in mind that there will be headers for the very best herds of the entire country and kindly send in your name now that it may be put on the mailing list. When writing mention The Homestead.

Great Herd of Durocs at Auction January 21, 1913.

Perhaps no better bred offering of Durocs will be sold this spring than that of S. E. Eakle & Sons, Prophetstown, Ill. No one has watched popular blood lines closer than S. E. Eakle and he never buys a poor individual. He has one of the greatest bunches of well-bred sows in the land and he has been just as particular in selecting his herd boars. Just look up the advertisement on page 40 of this issue. He has used such males as S. E.'s Defender by Defender, dam by Chief's Col. out of Proud Fancy, the boar recently sold to H. E. Browning to head his herd. Another is S. E.'s Premier Col. by Premier Col.; Crimson Wonder by Crimson Wonder III., dam the great sow, Helen's Duchess, that sold for $675 in the Browning sale recently. Still another is Captain Model, a full brother to Golden Model II. The sows are by Defender, Chief's Col., Top Col., Morton's Top Col, Model Chief, Proud Advance, Crimson Wonder, Volunteer, Golden Model, Crimson Wonder Again and other noted sires, and the fine thing about these sows is that each one is a fine specimen of the breed. Many would make their mark in the show ring if fitted out. What is to be expected of a herd like this when its proprietor is a real hog man? We say a fine line of stuff for a sale and that is just what you will find here. While the gilts are not fat they are growthy and in fine shape to go ahead and raise litters that will make money for their owners. The sale is an offering of the best young things on the farm, strengthened by some good older sows that have proven their worth in the breeding pen. Some of these attractions are Proud Bess, one of the best Proud Advance sows of the breed. Another is a great aged sow by Model Chief, while another great sow is by Col. Browning, and a Model Chief Again sow looks good. A good gilt is by Crimson Wonder Again, while others are by S. E.'s Defender, Manley and S. E.'s Premier Col. Duroc men looking for a few well-bred sows to add to their herd should remember this sale. H. E. Browning will represent The Homestead. Cols. C. C. Plumley, H. S. Allen and Geo. J. Fruin, auctioneers. For catalog write S. E. Eakle & Sons, Prophetstown, Ill.

"GREATEST OF ALL ADVERTISING MEDIUMS."

THE advertisement in The Homestead is selling cattle faster than I can get them here. I do not hesitate in calling The Homestead the greatest of all advertising mediums for our breed of cattle." Henry C. Glissman, who wrote the letter from which the above was taken, is a breeder of Holstein-Friesian cattle. His advertisement has appeared in our columns for several years and always with good results. His experience should be valuable to others who have cattle for sale. A postal card inquiry will get our rates. Address

HOMESTEAD CO., - DES MOINES, IOWA.

Champion Duroc Jersey Blood.

The Duroc Jersey brood sow sale which S. P. Freed will hold at Ames, Iowa, January 20th, contains a larger proportion of the blood of state fair prize-winning animals than is usually consigned by any one breeder. His principal herd boar, Freed's Col., will be remembered as a grand champion at the Iowa State Fair in 1910. His get in this sale show remarkable attractiveness in their smooth finish, symmetrical proportions and growthiness. Wonder Crimson Again, another herd boar in use, was also a prize winner at the Iowa State Fair and one of the good sons of Crimson Wonder Again, than which few animals have proven themselves so valuable as producers of show-yard quality, breed type and actual merit. There will also be daughters of Crimson Wonder 3d (a prominent winner), B. & C.'s Col. (an Iowa State Fair champion) and Manley Orion (for several consecutive years an Iowa State Fair winner) and still others that have made meritorious records. An instance of the value of the brood sows that have gone out from this herd is that of a sow sold at the sale two years ago which went to Mr. Ransbottom, of Ohio, for whom she produced a litter which sold at $1,600. A litter sister to this sow has been cataloged and is bred to the grand champion, Freed's Col. A number of gilts of more than ordinary merit by Wonderful Crimson Again and from Freed's Col. dams have been bred to Freed's Crimson, a last spring pig by Crimson Chief and out of a dam by Iowa Notcher. There is too much merit in this offering for breeders to overlook, while there is enough promise to true pork-making quality to justify farmers in buying at good prices. Send for catalog. Address S. P. Freed, Ames, Iowa. See advertisement on page 43.

Choice Alfalfa Farm for Sale.

While the fact is not so very generally known among the farmers of the corn belt, nevertheless the truth is that a good alfalfa farm situated in the Republican valley of Nebraska is a greater revenue producer than some of the highest-priced corn lands of the country and the work is easier, subject to less risk and has a market equally as certain. In the years 1911 and 1912 the writer knows of several alfalfa farms in the Republican river valley that have paid for the land in alfalfa each season with alfala seed, to say nothing of the hay secured the same season. We know a farm near Arapahoe that in 1911 cut a splendid hay crop, a crop of seed that sold at the machine for $105 per acre and then furnished pasture for an immense drove of hogs till late in the season. The total income from that land was easily $130 per acre. John E. Kelley, McCook, Neb., has a choice piece of land for sale that is of the same order. A part of it is now seeded and is producing fine. More of it could be seeded nicely, while a part of it is permanent native hay land, this latter part being close to the river and the water is too close for successful alfalfa land, yet it produces abundant native hay of fine quality and this land never overflows. This farm can be bought at a bargain. This land will positively pay good dividends on the investment to a man who will take and operate it as it should be. Write Mr. Kelley about this at once. Also write him about the alfalfa hay he has for sale. It is choice and $11 f. o. b. McCook, Neb., if it is taken soon. See advertisement on page 19 of this issue.

Duroc Jersey Sale.

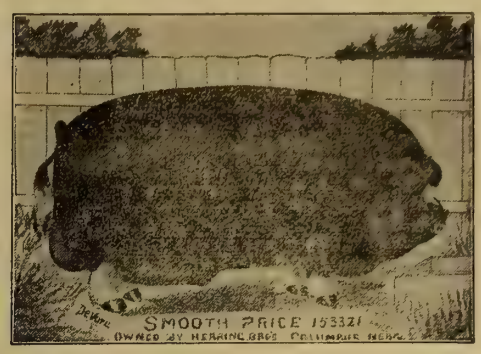
On page 44 H. Gilbert, Perry, Iowa, announces his sale of Duroc Jersey bred sows to be held Saturday, January 25, 1913. He will sell about thirty head of good sow stuff, including three extra good tried sows which some breeder will do well to secure, as they are top notchers and well bred. The whole offering is full of good blood, Crimson Wonder, Golden Model and the like. Send for a catalog which will give breeding in full. Address H. Gilbert, Perry, Iowa.

Charles Herring's Great Offering

SMOOTH PRICE

BRED SOWS

COLUMBUS, NEB., THURS., JAN. 23, '13



55 HEAD
22 Tried Sows
8 Fall Yearlings
25 Gilts
55 HEAD

I AM selling one of the grandest offerings of big-type Poland China bred sows that will be sold in Nebraska this winter. Thirty head of these will be daughters of my great herd boar **SMOOTH PRICE**, the sire of **Oakland's Big Surprise**; Fesenmeyer's **Big Joe**, and Pfander's **Big Ben.** Ten sows in the sale will be bred to him. I will sell three litter sisters to **Big Joe** in the sale, also two daughters of **Big Bone**, three daughters of **Orange Chief**, one **A Wonder** sow, ten by **Long Wonder** and ten gilts by **Smooth Jumbo.** These are all out of Mouw-bred sows. If you want **extreme size and quality** write for my catalog and come to my sale. Please mention The Homestead when writing for catalog. Address

CHAS. HERRING - Columbus, Nebraska

W. B. Duncan, auctioneer.

M. T. White, field man for The Homestead.

SALE OF BATES-BRED SHORT-HORNS

MARSHALLTOWN, IOWA,

TUESDAY, JAN. 28TH

ABOUT 40 HEAD
11 ARE BULLS

THE only herd in the state exclusively of Bates breeding and of the most costly and fashionable blood, 21 head of the Duchess and 14 of the Oxford tribes, the two highest-priced Bates families. The herd bull, Earl of Barrington 266481, is included. He is a direct descendant of the noted cow, Imp. Lally 8th by 7th Duke of York (17754). There is only one other pure Bates Barrington bull living. He will be one of the bargains of the sale. A large number of females of breeding age will drop calves early in the spring and are bred from milking strains for which Bates cattle are noted. The sale will afford an excellent opportunity to lay a foundation for a milking herd of Short-horns of the most fashionable Bates breeding. Send for catalog.

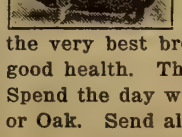
O. M. HEALY - - - BEDFORD, IA.

COL. CAREY M. JONES, Auctioneer.

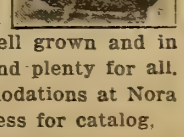
100 HEAD HIGH CLASS HAMPSHIRES 100

From the herd of C. P. PAULSEN, NORA, NEB., will sell at farm midway between

NORA and OAK, NEB., on SATURDAY, JANUARY 25, '13



SOME of the highest-class HAMPSHIRES that have ever been offered anywhere in the West will go in this sale. They are descended from



the very best breeding in the herd books, they are well grown and in good health. There will be hogs to suit all comers, and plenty for all. Spend the day with us if possible. Free hotel accommodations at Nora or Oak. Send all bids to J. C. Price, field man. Address for catalog,

C. P. PAULSEN - - - - NORA, NEBRASKA

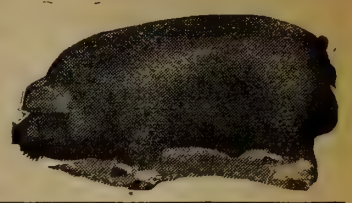
Colonels Reppert, Teeters and Mason, auctioneers.

POLAND CHINA SWINE.

COOPER'S GREAT BRED SOW SALE, HEDRICK, IOWA, FEBRUARY 4TH

AS USUAL, this offering is selected from our herd with the greatest consideration, to present to our visiting friends greater attractions than any preceding effort and we assure all comers one of the very greatest and best offerings of real big bred sows and gilts to go this season in the corn belt. We will include 25 head of 2-year-old and yearling tried sows, several fall yearling gilts and big, stretchy spring gilts weighing over 400 lbs. sale day. These sows are sired by such boars as Big Bone 2d, our present 860-lb. 2-year-old boar, Big Ex, Giant Look, Superior Look, Big Chief 2d, Chief Ideal, Chief I. X. L. 2d and other noted boars the catalog will give. They will be bred to Big Bone 2d, Big Expansion, a son of Dorr's Expansion, Chief Leader and Giant Chief. Send for our catalog. It will be interesting to you, in the big-type blood lines. Arrange to come and see one of the corn belt's best big-type herds of Poland Chinas and one of the most complete swine breeding plants. Mention The Homestead. Address

W. H. COOPER - - - HEDRICK, IOWA



Healy's Milking Short-horns.

On January 28th, at Marshalltown, Iowa, O. M. Healy, Bedford, Iowa, will make a public sale of forty head of strictly Bates cattle, representing the most noted milking strains known to the breed. Among these will be Airdrie Duchess, Grand Duchess Kirklevington and Oxford cattle. It will be remembered that the Airdrie Duchess cattle were the highest-priced Short-horns in the New York Mills sale, and that record still stands today for the highest-priced Short-horns ever sold. The Healy herd is a strictly Bates-bred herd and is one of the few, if not the only, strictly pure Bates herds today in the West. Included in this sale is his present herd bull, Earl of Barrington, one of the best-bred Lally Barrington bulls in this country. He is a roan in color, will weigh over a ton and is the sire of the most of the young bulls and young heifers in the sale. He is also selling a good three-year-old bull called 7th Duke of Wapsie. This bull is a red roan in color, is a son of Earl of Barrington and belongs to that celebrated Airdrie Duchess tribe. He is also selling a good young Bates Oxford bull that is one of the good young bulls in the sale, and a June 7th roan yearling that is the best young bull in the offering. Altogether there will be ten bulls in his offering. Among the females is 16th Duchess of Wapsie, a three-year-old heifer by Earl of Barrington, and she is out of Wapsie Duchess by that great bull, Airdrie Duke of Hazelhurst. She is a wonderfully thick young cow and will be due about March 1st to 7th Duke of Wapsie. Another good cow is Oxford Beauty, a daughter of Airdrie Duke of Hazelhurst, and her dam is Oxford Wapsie by 4th Duke of Oaks. She also has a splendid three-year-old daughter in the sale sired by Earl of Barrington. There will also be three of her daughters in the sale, viz.: 2d Oxford of Wapsie, 4th Oxford of Wapsie and 6th Oxford of Wapsie. These are all bred and sae in calf. He is selling 12th Duchess of Oaks, a daughter of 2d Duke of Oaks, and three of her daughters will also be sold in the sale. The old cow has been a grand breeder and she belongs to that well-known Airdrie Duchess tribe. Wapsie Duchess is another good cow and she sells with an August 30th heifer calf at foot by Earl of Barrington. This cow is the mother of the best heifer in the sale. One of her daughters, 14th Duchess, is the dam of the best young bull in the sale. Kirklevington Lady is a very choice cow of that celebrated Kirklevington tribe and she sells with a red heifer calf at foot by Earl of Barrington. There will be several good yearling and two and three-year-old heifers in the sale. As we said above, the Healy herd is the only Bates-bred herd today in the West, and those of our readers who are interested in the milking strains of Short-horns should send for his catalog and arrange to attend his sale. The sale will be held at Marshalltown, Iowa, but when writing for catalog address Mr. Healy at Bedford, Iowa. Kindly mention The Homestead when writing for it. See page 41 for Mr. Healy's advertisement.

Rude & Son's Duroc Sow Sale.

One of the very important Duroc Jersey sow sales that will be held in the early part of the year will be that of Rude & Son, at Moorehead, Iowa, on January 22d. This sale will follow the J. A. Shade sale and breeders can make direct connections from one sale to the other. Their sale offering is a good one and they have listed a splendid lot of their very best sows for this sale. They are selling forty-five head, among which are fourteen matured sows, seven fall sows and twenty-four spring gilts. This firm have been one of the best buyers of the best Durocs during the past three years and their offering will speak for itself when the breeders see it. This fall they went out and secured from Waltemeyer Bros. that splendid prize-winning boar, High Chief, and many of the best sows are bred to him. This boar was first-prize hog at the Iowa State Fair and he also won second prize at the Interstate Fair. Another very excellent boar in this herd is Iowa Col., a son of the great boar, Tippy's Col., and this hog will easily weigh 900 pounds in flesh. He is one of the best big boars today in western Iowa and he is a splendid breeding hog, as his get in this sale will show. He is a wonderfully smooth, big hog and his get have plenty of size and quality. Then a number of the sows will be bred to two sons of that old grand champion boar, Crimson Wonder Again. There will be fifteen daughters of Iowa Col. in the sale and fifteen sows will be bred to him. Among the matured sows they will offer are daughters of Lafollette, Col. Willetta, Grand Master Col., Proud Col. and Golden Wonder. These sows are about as good as were ever sired by those boars, as Mr. Rude always bought the very best. The fall and spring sows will be sired by Iowa Col., Golden Wonder, Model Chief's Last and Brilliant Wonder. This sale offering has been selected from among 150 head now on the place and, take our word for it, they are selling a splendid lot in this sale. Write for their catalog at once and kindly mention The Homestead when asking for it. Bids sent to M. T. White, Homestead representative, in care of Rude & Son, will receive attention on day of sale. See page 40.

Closing Out Shadeland Durocs.

One of the greatest sales of Duroc Jerseys that will be held this winter will be that of J. A. Shade, at Kingsley, Iowa, on January 21st. This sale will be practically a closing-out sale because of the sickness in his family and he has concluded to close out his herd in order to reduce the work on the farm. This herd has long since been regarded as one of the foremost herds in the West. The matured sows that have made up this herd were gathered from what we might say the very best herds in this country, both east and west. A couple of years ago Mr. Shade made an extended tour of the entire East in the quest of foundation stock, and at that time he visited the most noted herds and came back with one of the best collections of brood sows and boars that hay up till that time been brought into the West. Many of these same sows will be sold in this sale and there are certainly some outstanding good ones. His two present herd boars will also be sold and here will be inducements to those breeders who will want a herd header. First and foremost will be Missouri Model Top, the noted champion and grand champion American Royal boar, and he goes into the sale without any reserve. A great many of his get will also be sold in the sale and he will also be bred to the most of the best sows that he will sell at that time. The other boar is King Superba, a son of that great Browning boar, Superba, and out of a dam by King's Col. Nearly all of the sows that will be sold in the sale will be bred to these two boars. Among the more noted sows that will be sold will be two by Searchlight. One of these won junior championship at the American Royal this fall. Her sister is almost as good and either one will be a great find for any breeder to put into a herd. The first of these two sows was first in class, junior, reserve and grand champion sow at the Royal in 1912, so here will be something for the breeders to go after. There will be twenty daughters of Missouri Model Top in the sale, twenty by Challenge, five by Carl's Col., five by Prince of Cols., five by American Royal and others by King of Cols., Premier Col., Prince Malcolm, Ohio Chief, Iowa Notcher, Model Chief 2d, Crimson Wonder Jr. and others by equally noted boars. These sows were purchased without regard to cost and among them are some of the best brood sows that have ever been sent through a western sale ring. If our readers want something bred in the purple it will pay them to attend this sale. Write J. A. Shade, Kingsley, Iowa, for catalog and kindly mention The Homestead. Bids sent to M. T. White, representing The Homestead, in care of Mr. Shade, will be properly handled on day of sale. See page 44.

The Bloomington Breeders' Sale.

The annual offering of draft horses of the different breeds will take place at Bloomington, Ill., January 28th, 29th, 30th and 31st, under the direction of Chas. W. Hurt. For several years these breeders' sales at Bloomington have been big affairs, and Mr. Hurt has furnished an outlet for a great number of horses. For the coming event he announces there have been consigned some 300 head of imported and home-bred stallions and mares of the different breeds, and assures prospective buyers that a better class of horses has never been offered at any of the Bloomington sales. Percheron, Belgian, Shire, Clydesdale and French Draft stallions and mares are included in this big offering, and some of the best-known breeders and importers are among the consignors. In addition to the draft horses there will be sold 100 head of registered trotters, road horses, grade drafters, single drivers, etc., as well as fifty head of imported and native-bred Shetland and Welsh ponies and some cross breds. There will be horses in this sale to suit every class of buyers, and where so many are to be sold bargains are bound to be plentiful. The advertisement appears on page 46. Look it up and send for a copy of the catalog to the manager, C. W. Hurt, Arrowsmith, Ill., mentioning that you saw the advertisement in The Homestead.

Young Percherons for Sale.

C. F. Jones, Rippey, Iowa, is offering to Homestead readers two particularly good things in young Percherons from his stud. One is a yearling filly that will develop into a mare of much size and a good brood mare. She was entered in the Percheron futurity at Des Moines last fall and ranked well in the large number shown there. She is a coal black filly with only a star in the forehead, has style, quality, a good flat bone and a foot of the right texture and size. The mother of this mare weighs around 2,200 pounds and has been a good brood mare during her five years of production. She has bred regularly and her colt looks as though she had the making of a good brood mare also. Along with this filly Mr. Jones offers just now a good weanling stallion at a quick-selling price, and for something to grow into good money rapidly it will prove worth an investigation. See advertisement on page 45 and write Mr. Jones now, kindly mentioning The Homestead when you do so. His address is C. F. Jones, Rippey, Iowa.

Chas. H. May Offers Durocs.

The well-known breeder of Duroc Jerseys, Chas. H. May, Roca, Lancaster county, Neb., will not make a sale of bred sows February 3d, as he had planned, but will offer immediately about twenty-five head of choice ones at private sale. Mr. May has a very choice herd and the ones he is offering for sale are really choice enough for anyone, but for the fact that he would have been obliged to sell much of the foundation stock in order to gather together enough for a sale, he will sell at private treaty. He has twenty-five head to offer, nearly all spring gilts, and they are, as we stated before, choice enough for anyone. Really a few are show propositions, having won the past season at Lincoln, and look very promising as junior yearling sows. They are mostly the get of Valley Col., a son of Prince of Cols. and out of a daughter of Valley Chief. A number also are sired by Golden Model 5th, while a few are sired by C. H.'s Crimson Wonder by Crimson Wonder Again. They are mostly bred to Proud Medium by Chief Protection. Proud Medium was a good winner at the Iowa and Nebraska fairs this season. Mr. May will price these sows at as low a price as is consistent with good business in order to move them early. We would suggest that our readers lose no time in writing for them, for with the present price of market hogs, and with the generally low price of feeds of all kinds, hogs cannot but be a wise investment. When writing Mr. May kindly mention The Homestead.

50 HEAD POLAND CHINA SOWS FOR SALE 50

WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.

WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address

E. F. ESCHER - - - MANNING, IOWA

BIG WONDER, 2d Prize Iowa State Fair Boar

WEIGHS 1000 pounds and the greatest hog today of the breed. Sow sale March 1, 1913. Drop me a card for catalog. Address, mentioning The Homestead,

FRED SIEVERS, - - - - AUDUBON, IOWA.

BIG-TYPE POLAND BRED GILTS

THESE gilts are sired by Longfellow 2d 183143, and Giant Wonder 183147, and are bred to Giant Wonder, L.'s Wonder by Gritters' A Wonder Again and Orange Jumbo by Mouw's Tecumseh Jumbo. Gilts are out of sows by Longfellow, Long Wonder, Miller's Chief Price, Big Orange and Beauty's Jumbo. Write for price, mentioning The Homestead.

THOS. LIEN, ELGIN, IOWA

IMMUNED POLAND BOARS AND GILTS

THESE are the real Nebraska big-type Poland Chinas. They are from big litters and are now in fine breeding condition, having been immuned in early summer. I am pricing them very low as I need the room for my fall pigs. Order at once mentioning The Homestead.

G. A. WIEBE, - - - - BEATRICE, NEBRASKA.

BAIRD'S POLAND CHINA BRED SOW SALE

ON Saturday, January 25th, I will sell a draft of 45 of my big-type Poland China sows, bred for spring litters. 30 head bred to the thousand-pound champion, Columbus. Send in your name for catalog. Entirely sold out of those fall pigs by Columbus.

R. B. BAIRD, Central City, Nebraska.

MELBOURNE HERD BROOD SOWS FOR SALE. Having decided to close out my herd, am offering all the good brood sows that have proven their worth in my herd at private treaty. They include the well-known sow, Utility; the great Lady Jumbo sow, Phillecia Leader Lady by Union Leader; the great What Ex sow, Louise Belle; Whiteface Beauty by Prince You Tell, and others. They are either bred or will be for spring litter to the great yearling boar, Melbourne Jumbo, a grandson of Wade's Jumbo. These sows can be seen on the farm near Burchard, Neb. For further information address Melbourne Farm, Burchard, Neb., or John C. Haiderman, Inez Hotel, Kansas City, Mo.

FOR SALE BIG-TYPE POLAND CHINA HOGS

ALL ages and both sexes. I have several fall boars at $35 and $40 each and spring boars at $25 and $30 each, and some nice spring gilts at $25 and $30. The heavy-boned prolific kind. Address

J. B. HEISEL, GRINNELL, IOWA.

B. B.'s WONDER FOR SALE

I AM offering my splendid bred boar, B. B.'s Wonder, a grandson of old A Wonder, for sale, and he is a good one. Address

BEN BROUGHTON, Lake View, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks. James H. Duncan, Lone Oak Farm, Lineville, Iowa.

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address

C. H. PORTER - EAGLE GROVE, IOWA.

Poland China Sows AND GILTS FOR SALE

BRED to Big Bone, a fall yearling out of Fesenmeyer's A Wonder and Gritters' Top and a spring boar out of A Wonder and Matchless Giantess, good heavy-boned boars. Address

BERTEL HANSEN, R. 2, Alta, Iowa.

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address E. V. Waugh, Greeley Center, Neb.

POLAND CHINA FALL PIGS

SIRED by Naiman's Expansion and out of choice old sows and large litters are now for sale at $12.50 each, 3 for $35.00. 50 head to pick from. Order at once. Address John L. Naiman, Alexandria, Neb.

POLAND CHINA BRED SOWS Sows by our 1,000-lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.

P. S. & S. BARR, - Davenport, Iowa.

PLEASANT VIEW HERD of big-type Polands. Stock for sale, both sexes and all ages. RING BROS., Newton, Iowa.

TAMWORTH SWINE.

KNOLL SLOPE TAMWORTHS

BREEDING of the highest order. Boars and gilts of spring farrow. The kind that makes for profit. Let us continue to do business together. Write me.

C. C. ROUP, - KALONA, IOWA.

YORKSHIRE SWINE.

LARGE YORKSHIRES

80 HEAD of pigs of 1912 farrow, all ages, either sex, not akin, $8 up. Service boars. Sows and gilts, bred or open. W. C. Cook, R. 42, Ada, Mich.

DISPERSION SALE OF HEREFORD CATTLE

At the farm, 5 miles south of WILLIAMS, IOWA

TUESDAY, JANUARY 21, '13

23 HEAD consisting of the great herd bull, Baldy, by Eureka; 6 young bulls, 10 cows, 2 yearling heifers and 4 heifer calves. The cattle are a good useful lot and I expect them to sell low. It will be a good day's work for any man who will attend this sale and buy some of this good seed. Write for information to

CHAS. QUELLAND, Williams, Iowa.

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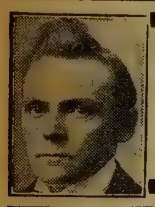

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I ALSO have a very choice lot of Shetland ponies for sale. Just the thing for a present for the little folks. Priced low for quick sale.

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WILL sell your live stock, farm or ranch, business or residence lots and town sites. Write for terms and dates mentioning The Homestead.

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

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Auctioneer.
Chester White and Farm Sales a Specialty

I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,

C. C. Evans, North English, Ia.

W. F. STRATTON
Nevada, Iowa
Live Stock and Real Estate Auctioneer.
23 Years' Experience.

GEORGE H. BURGE,
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PEDIGREED live stock. Also have new plan for selling real estate. It is a money getter. Send for it today. Also my terms. Address

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B. H. KECK, MT. PULASKI, ILL.
AUCTIONEER

Write for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

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Live Stock Auctioneer,
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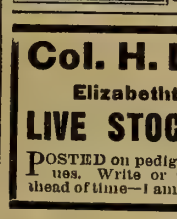
Sale tent free with services. Write for dates



Col. H. L. Igleheart
Elizabethtown, Kentucky.
LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention paper.

N. G. Kraschel
HARLAN, IOWA.
Live Stock Auctioneer

I am conducting sales for the best breeders in the country. Write for dates.

CAREY M. JONES,
Live Stock Auctioneer,
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Pure-bred sales a specialty. Write for dates.
Mason City, Iowa

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MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address **ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio**

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address **DR. W. J. CONNER, LABETTE, KANSAS.**

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale. **Samuel Johns, Sec. A., Wilmington, Ohio.**

FREED SELLS DUROC JERSEYS AMES, IOWA, MONDAY, JANUARY 20

40 HIGH QUALITY BRED SOWS 40

A FINE lot of tried sows, daughters of Crimson Wonder 3d, B. & C.'s Col., Manley Orion, Young Rupert and Freed's Chief, and some fine spring gilts by Wonderful Crimson Again and all bred to the grand champion, Freed's Col. Also daughters of Freed's Col.—tried sows, yearlings and gilts bred to Wonderful Crimson Again (son of grand champion, Crimson Wonder Again). A few choice gilts bred to a son of Crimson Chief. Sale under tent. Auctioneers, Colonels Reppert and Kraschel. C. C. Carlin will represent The Homestead. Catalog now ready.

S. P. FREED - AMES, IOWA

CHESTER WHITE SWINE.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. Mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa**

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

ALDEN ANDERSON, ELLSWORTH, IOWA

ANDERSON'S CHESTER WHITES

60 SPRING, fall and yearling sows, the large roomy kind, sired by Model Boy Jumbo, Chief Select, Fair Boy and Captain. Bred to the best boars money can buy. Will ship any where C. O. D. at farmers' prices. Stock as represented or your money back. A few April farrow boars left. Address

ED ANDERSON, - - - - R. 2, ALTA, IOWA.

BARBER'S PRIZE-WINNING CHESTER WHITES

200 Spring pigs, 25 fall boars, sired by **Gold Mine, Modeller Boy, Prosperity** and **Young America.** The best I have ever raised. Also choice sows and gilts. Write me for prices and further information. Address

J. L. BARBER - - - - HARLAN, IOWA

SWEEPSTAKE 28006 WEIGHS 1260, 1ST AND CHAMPION

Boar at Iowa, 1912, heads our herd of Chester Whites. **We ship c. o. d. and pay all express charges.** Choice growthy pigs of both sexes, no akin. Catalog free. We also offer for sale Recorded Shire Fillies, and Mares in foal. Write

B. M. BOYER & SONS - - - FARMINGTON, IOWA

Col. W. H. Irwin
Auctioneer

I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.

Harrod, Ohio

GOULD'S CHESTER WHITES

40 head of pure-bred males for sale. Sired by Jumbo Chief and Captain C. I have good length, heavy bone, well-proportioned individuals. Satisfaction guaranteed. Shipped on approval. Address Frank A. Gould, 1¼ miles N. of Rockwell City, Ia.

CROSIER'S O. I. C.'S

LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address

CHAS. W. CROSIER, - Juniata, Neb.

I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address

E. H. KAHL, - Buffalo Center, Iowa.

SCHEHL'S CHESTER WHITES

WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rowen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

BOARS ALL SOLD

GOOD lengthy gilts, weighing 200 pounds, safe in pig. Price $30 each. Sire, Michigan Chief, an 800-pound boar at two years old. Address

J. T. SCARFF, Salem, Henry County, Iowa.

30 CHESTER WHITE

SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

Chester White Sows

25 bred sows and gilts for sale. Some are show sows and all are as good as can be found. Some gilts weigh over 200 pounds. Bred to an 800-pound show hog. **Earl Bloom, Bridgewater, Iowa.**

Young's Chester Whites

SPRING boars and gilts of select lines of prize-winning blood, and from high quality mature sires and dams. Only good pigs offered. Will meet buyers at train if notified.

M. W. YOUNG - ANKENY, IOWA

IMPROVED CHESTER WHITES. For a No. 1 boar of the best breeding at a very low price.

E. J. TRUMBAUER - St. Charles, Iowa.

FOR SALE. O. I. C. bred gilts, sired by Frost John 33658, Ed's Choice 34278, H. C. Russell 35144; choice dams. Farrow M'ch, 1913. E. A. Taylor, R. 1, Boone, Ia.

I SHIP C. O. D.

CHOICE registered Chester White swine. Both sexes, not akin. Farmers' prices. Pedigrees free

GLENN RIDER - Farmington, Iowa

CHESTER WHITE BOARS

OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address

VANDERSLICE BROS. Cheney, Neb.

PHILSON'S CHESTER WHITES

I HAVE 30 choice boars for sale and a lot of choice sows and gilts. Write for prices and description. Address, mentioning The Homestead,

S. J. PHILSON, - Harlan, Iowa.

Burkett's Chester Whites

SOME real herd heading young boars. Also a number of choice gilts, for sale at reasonable prices. Address W. H. Burkett, Beaver Crossing, Neb.

40 Chester White Boars March to May farrow, some extra nice heavy boned. A few aged sows and gilts bred to good boars. Chester Bloom, Bridgewater, Ia.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

BLUE RIBBON STOCK FARM offers for sale some March and April spring boars from winning stock. Address H. C. Mehring, Manson, Iowa.

BERKSHIRE SWINE.

BRANXHOLME FARM BERKSHIRES

WE offer for immediate sale eleven splendid spring boars. These carry the blood of Masterpiece, Premier Francis, Lord Premier's Rival and other noted boars. Prices reasonable and satisfaction guaranteed. **MacDonald Bros., Montezuma, Ia.**

BIG-TYPE BERKSHIRES

JUNE and July pigs, both sexes, $15. Earlier boars $17. Yearling farmer boars $20. 30 bred sows and gilts $30 to $60. **WEST WIND FARM.**

M. A. O'BRIEN, R. 2, Reedsville, Wis.

HAMPSHIRE SWINE.

HAMPSHIRE BRED-SOW SALE

Saturday, Feb. 1, 1913, Kenton, Ohio

BEST breeding obtainable. Healthy stock. Improved Hampshires at your own price. Sale in town. Catalog ready. Address

C. H. DODDS, R. 5, Kenton, Ohio.

VALLEY VIEW HAMPSHIRES. Breeding stock, either sex, any age, quality unexcelled, satisfaction guaranteed. Fred Wheeler, St. Charles, Ia.

Closing Out Shadeland DUROCS

KINGSLEY, IOWA, JANUARY 21, '13

70 Head Herd Boars and Brood Sows

Including **Missouri Model Top**, champion and grand champion American Royal 1911; **King Superba**, son of the $3,000 boar, Superba, and out of A King's Col. dam. All of my celebrated brood sows, as good as there are in America, go in, among which will be 20 by **Missouri Model Top**, 20 by **Challenge**, 5 by **Carl's Col.**, 5 by **Prince of Cols.**, 5 by **American Royal**, 1 by **King of Cols.**, 2 by **C. H.'s Special**, 1 by **Premier Col.**, 1 by **Prince Malcolm**, 1 by **Ohio Chief**, 1 by **Iowa Notcher**, 1 by **Model Chief 2d**, 1 by **Crimson Wonder Jr.**, 1 by **Searchlight**, (Jr. champion sow American Royal 1912) which will be one of the great attractions. Everything goes. Write for my great catalog and mention The Iowa Homestead. Address

J. A. SHADE & CO., Kingsley, Iowa.

Reppert, Kraschel and Luther, Auctioneers.

M. T. White, field man for The Homestead.

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped out. Can ship by Adams or U. S. Express. Write today. MIKE SHARP & SONS, COAL VALLEY, ILLINOIS.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
HUGHES ATKINSON, - - - - MT. STERLING, KENTUCKY.

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 378 head on hand 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. R. L. BOLLMAN, COAL VALLEY, ILLINOIS

BRED SOWS FOR SALE

FOR March and April farrow. They are bred to Look Out, an outstanding boar, also Rival Chief and P. M. Maloy. This breeding should make a good cross. Prices reasonable. Write
GEO. LIPPERT - - - - MAGNOLIA, ILLINOIS

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address
H. D. DE KALB, - - - - Dekalb, Iowa.

THE UNDEFEATED BOAR MESSENGER BOY 6179

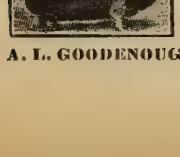
HEADS MY HERD OF HAMPSHIRES. I have nothing to sell at present. The great demand for boars and gilts by Messenger Boy and sows bred to him has taken everything I can spare at present.
CLAYTON MESSENGER - - - - KESWICK, IOWA

SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.
C. A. BROOK, - - - - WASHINGTON, IOWA.

WE ARE offering ten yearling sows bred to Capt. Porter, a mammoth boar, for March farrow. Eight gilts bred to the Kentucky-bred boar, Rival Lad, for April farrow. These hogs are of the best breeding and are priced very reasonable. Write us for description and prices.
WOOD & WESCOTT, SHEFFIELD, ILLINOIS

GOODENOUGH'S HAMPSHIRES



BOARS all sold but two extra good yearlings. I will hold a public sale of bred ows and gilts on January 27, 1913. Write me, mentioning The Homestead.
A. L. GOODENOUGH - Morrison, Illinois

IMMUNIZED HAMPSHIRES

OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address
J. CROUCH & SON, La Fayette, Indiana.

DUROC JERSEY SWINE.

SWANSON'S DUROC JERSEY SOW SALE

STANTON, IOWA, JANUARY 23, 1913

40 HEAD---30 Matured and Yearling Sows, 10 Gilts---40

THESE are the best I have ever sold and are sired by **Model King, King The Col.** and **Model Prince.** They are all safe in pig to **King Willetta** and **Model King.** If you want some good sows that are bred right and are good individuals come to my sale. Write for my catalog, now ready, and mention The Homestead.
COL. N. G. KRASCHEL, Auctioneer. S. W. SWANSON, Red Oak, Iowa.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
E. S. MAYES, JR., SPRINGFIELD, KENTUCKY.

HARDING'S DUROC JERSEY BOARS

I HAVE 30 choice boars for sale. I have a yearling by the champion **Freed's Col.**, out of a daughter of the grand champion sow, 1911. Will recommend him as a good breeder. Two good fall boars, and I will sell Crimson Critic: 25 other choice boars. Write me at once.
R. J. HARDING, - - - - - MACEDONIA, IOWA.

J. W. STORM BUYS VOLUNTEER AT $1,500.00

HE is assisted in herd by Royal Superba, grand champion over all breds at two big shows. Will hold **BRED SOW SALE JANUARY 23, 1913.** 25 sows will be offered bred to Volunteer. For particulars address, mentioning The Homestead, J. W. STORM, SEVILLE, OHIO

CHERRY LAWN DUROC JERSEY BRED SOWS

WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individuality. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first-class. Address
ROBT. PRITCHARD, - - - - CARROLL, NEB.

Cramer's Grand View Durocs

WE have several choice gilts bred for early farrow that are bred right and must make good. Priced right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address M. C. CRAMER & SON, Monroe, Iowa.

LARGE DUROC JERSEY BRED GILTS

I HAVE 25 March, April and May gilts by Daisy's Chief out of dams by Col. Advance, Model Advancer Chief's Col. and others, bred to Model Select by Chief Select Jr. Gilts weigh 250 to 300 lbs. Prices right.
J. H. MORF - - - - - FAYETTE, IOWA

SUNNY SIDE STOCK FARM

DUROC JERSEY HOGS and Red Polled Cattle. Herd headed by S. E.'s Defender 117385 and S. E.'s Premier Col. 117563. S. E.'s Premier Col. is for sale. Spring pigs are from dams by Model Chief, Ohio Chief, Proud Advance, Golden Model, etc. We also have a great litter by Crimson Wonder I Am, and several by other prominent sires. We breed for size, smoothness and prolificacy. An extra lot of males and females to choose from. Prices reasonable. Mention The Homestead when writing.
S. E. Eakle & Sons, Prophetstown, Whiteside Co., Ill.

20 Duroc Jersey Boars 20

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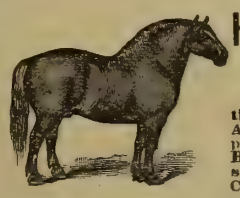

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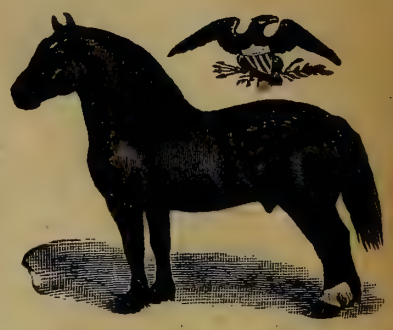

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Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address
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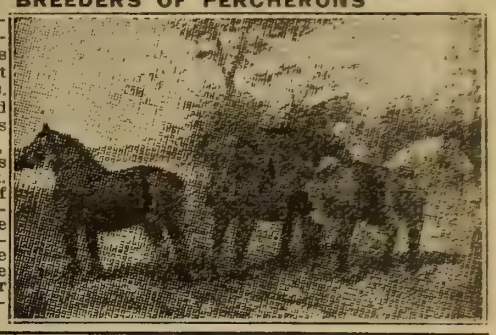
MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



THE NORTH ROBINSON CO.,

BREEDERS AND IMPORTERS

PERCHERON, BELGIAN, SHIRE

STALLIONS AND MARES.

A BIG lot of carefully selected stock, fresh from Europe and from our own farms, may now be seen at our sale barns at Grand Island, Nebraska. Write for fuller particulars or come and see us. Mention The Homestead and address

THE NORTH ROBINSON CO., Grand Island, Nebraska

HOMEWOOD STOCK FARM

Our New Importation of

100 PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

Arrived October 15th and can now be inspected at our stables. If you want to save from $300 to $500 on a stallion or a pair of young mares you can do so by buying at once. **Every animal guaranteed sound and a satisfactory breeder.** Write at once for particulars or call at the farm.

S. METZ & SONS - - - HOMEWOOD, ILLINOIS

Homewood is on the main line of the Illinois Central and Big Four Railroads, 23 miles south of Chicago, with trains every hour. Bell phone, Homewood 58 W.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for circulars. Catalog ready Dec. 1st.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importation of **PERCHERON** stallions now in the barns of

E. J. HEISEL, Fremont, Mahaska Co., Iowa.

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C., B. & Q. R. R.

HOLERY (76516) 62688

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. railroads. Foreign headquarters, Leer, Germany

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W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars. Large CALENDAR after December 15th.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

THIS PONY FREE!

WE WILL GIVE YOU OR SOME OTHER BOY OR GIRL THIS PONY WITH THE COMPLETE OUTFIT

"DAPPLE"

"Dapple" is a beautiful three-year-old dappled-chestnut Shetland Pony 42 inches high, with Silver Mane and Tail. He weighs about 300 pounds and is pretty nearly worth his weight in gold. Of the 83 Shetland Ponies we have given away to boys and girls we believe "Dapple" is the prettiest. In fact you very seldom can get a pony of this color. You may have seen lots of ponies in Circus Parades, but you never saw one prettier than this pony "Dapple" that we are going to give to you or some other boy or girl. We selected him out of 100 ponies at the famous Heyl Pony farm, Washington, Ill., and you'd be the happiest child alive if "Dapple" were yours. Hitched up to his nobby pony wagon he will haul you and all your boy and girl friends that can pile in, just about as fast as you want to go. And when you are not riding or driving him he will play with you and you can teach him to come when you whistle, and lots of cute tricks. Didn't you ever notice what good times children have who own ponies and how pretty these cute little fellows look when trotting up the road? Everybody runs to the door and stops to look at a Shetland Pony going by. Can you think of anything you would like to own better than "Dapple?" Read this page through carefully and then send us your name and address at once.

Here's "Dapple"

THE OUTFIT

And best of all we send free with "Dapple" the complete Pony Outfit just as you see it in the picture. Besides the Pony, the Pony Buggy and the Harness shown we send a Saddle and Bridle, which would make you the most complete outfit that money could buy. You could ride horse-back or take all your boy or girl friends driving everywhere. The Pony Wagon is just the most comfortable riding and easiest pulling we could buy for our purpose. We have given away so many that we know exactly what kind most boys and girls like. The handsome nickel trimmed harness looks just fine on "Dapple" and the riding bridle is imported and the saddle which we also send we had made to order for "Dapple." No child, no matter how rich his parents may be, owns a nobbier or more desirable pony and outfit than this one which we shall send free and all freight with express charges paid. Read down below what some of our pony winners say about their ponies and outfits—how proud and happy they are—and see if it doesn't make you want one, too. This is surely the best chance you ever had to get a Shetland Pony, so if you haven't any and think you would like to have us give you one, send your name and address to us right now so it will get to us quickly.

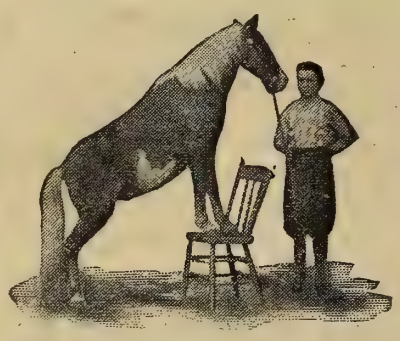
Send Us Your Name Today

If You Want to Own "Dapple"

As soon as we hear from you we will tell you how to become a contestant for "Dapple." Don't let anybody persuade you that you cannot win this pony because our plan of giving ponies away is different from others. The fact that we have already given 83 ponies to 83 boys and girls all over the United States from the State of New York to the State of Washington is proof that we give them away. The Webb Publishing Company publishes The Farmer's Wife and The Farmer. The banker or postmaster in your town knows that we are one of the largest publishing houses in the United States so we can well afford to give ponies to boys and girls to advertise our papers. We never heard of one of these 83 boys and girls until they wrote and told us they wanted a pony which shows how fair and square our pony contests are, and no matter where the winner lives "Dapple" will be sent without any cost to you. You must send your name and address right away.

We Have Given Away 83 Ponies

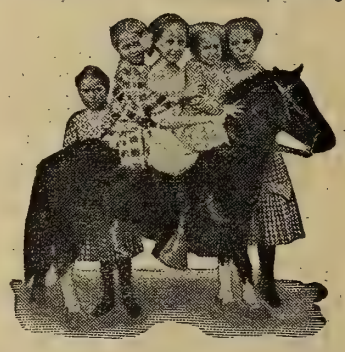
Here Are Pictures of Some of Our 83 Lucky Pony Winners and the Ponies We Gave Them



"Roine," Clarence Busick, Adams Co., Indiana

"I live seven miles from Decatur, Ind. I won a pony in The Farmer's Wife Contest. My pony's name is 'Roine.' When I go to the gate and whistle 'Roine' will come to me. I drive him to school with my three sisters. The scholars think that is one of the nicest outfits that a boy could have to go to school with. Before The Farmer's Wife gave 'Roine' to me I was absent from school for more than a year because I was sick and it was too far for me to walk. When the doctor heard I had won a pony he said it was one of the finest things I could have for my condition, to be out of doors all the time. This was quite interesting to me, and I am glad to say I am now well again, and the doctor says 'Roine' has done his share in it, and also The Farmer's Wife of St. Paul, Minnesota, who gave him to me."

Clarence F. Busick, Adams County, Indiana, is one of our Lucky Pony Winners, and here is his picture and part of his story.



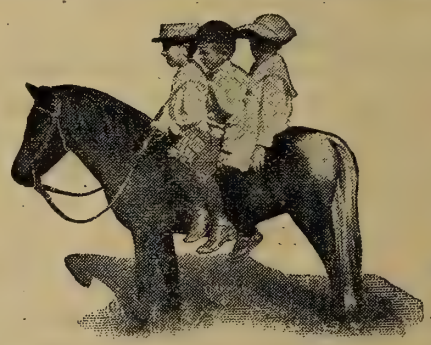
"Jerry," Cleta Johnson, Douglas Co., Kansas

"I have the dearest little black Shetland Pony named 'Jerry' which The Farmer's Wife sent me free all the way from St. Paul up in Minnesota out here to Lawrence, Kans.

"When I first started out to get my friends to help me win a pony, I can tell you it was pretty hard work. Some of them laughed at me and made fun of me and said: 'Oh, you can't win a pony.' However, I entered the contest, and now have 'Jerry' as proof that the company did as they agreed.

"I took 'Jerry' down to the Douglas County Fair at Lawrence, Kansas, to see if he could win a prize, and he took the first prize of $6.00 in cash over all the ponies there. When they tied the blue ribbon on 'Jerry' he acted more proud than ever, and how the people in the Grand Stand clapped their hands and cheered."

This is a part of a letter written by **Cleta Johnson,** Douglas Co., Kans., who is another of our 83 Lucky Pony Winners.



"Sonny," Elmer Hoth, Allamakee Co., Iowa

"I am a little boy 10 years old. I weigh 87 pounds and have light hair and blue eyes. But what I want to tell you about is my pony 'Sonny,' which the Webb Publishing Company, publishers of The Farmer's Wife, gave me. 'Sonny' is the finest pony in these parts and he and his outfit are better than $500 to me.

"I went to the depot to meet my pony the day he came. I could hear him whinnying, but could not see him. Then I saw him in a little crate in the express car. They lifted him down and I took him out of the crate and I was so happy I couldn't talk.

"I have lots and lots of good fun with 'Sonny' and no money could buy him. He goes as fast as he can when we go after the cows at night. I am never going to sell him, and 'Sonny' is so good he makes me feel happy all the time."

This is what **Elmer Hoth** of Allamakee County, Iowa, has to say, because he, too, is one of our 83 Lucky Pony Winners.

"Mac," Ruth Mead, Saline Co., Missouri

"I shall never forget my first drive to town with the Shetland Pony which The Farmer's Wife gave me. We hitched 'Mac' to my beautiful little cart, and as we drove through Main Street we attracted as much attention as if we had been a circus parade, for it was the only pony outfit in town. Men, women and children came out and stood all around to look at 'Mac' and pet him, and how proud of him I did feel.

"He is so gentle and good natured and will stand with his fore feet on the porch or on a box and let us slide off his back to the ground. I wish every little boy and girl had a pony and cart like mine and had the jolly time I have with 'Mac,' and I hope they will enter The Farmer's Wife Contest and get a pony half as nice as 'Mac.'"

Ruth Mead, a little girl in Saline County, Mo., still another of our 83 Lucky Pony Winners, writes this and a lot more about the Shetland Pony we gave her.

Notice that we print the photographs of these four of our 83 Lucky Pony Winners and the ponies we gave them free, which removes all doubt of the fact that we really do give away live Shetland Ponies. Furthermore we promise to give you the full addresses of any of these four winners and also the complete names and addresses of any of the other of our 83 Lucky Pony Winners upon receipt of a request from you. Now, doesn't that make you feel positive we will do exactly as we say in the contest? And right here we want to tell you that we have a BIG SURPRISE for you which will DOUBLE YOUR CHANCES of winning a pony. We haven't room to explain it here, but we will tell you AS SOON AS WE HEAR FROM YOU. Remember, you can't win "Dapple" till you send us your name, so sit down and write us at once. Don't miss this opportunity!

SEND YOUR NAME TODAY

Our ponies are given away so quickly that you will stand a better chance to get this one if you sit right down and write us a letter or a postal card or send the coupon opposite filled out with your name and address (either way will be all right). The work we require you to do to become a contestant for "Dapple" is something that any boy or girl who can drive a pony can do, and any child who becomes a contestant will win a fine prize, even if he fails to win "Dapple" which is the best prize of all.

CUT OUT AND SIGN THIS COUPON OR COPY ON A POSTAL CARD AND MAIL TODAY

THE FARMER'S WIFE, 305 Webb Bldg., St. Paul, Minn.

Please send me Certificate of Entry, and pictures of "Dapple" and tell me how to take care of Shetland Ponies. I haven't any Shetland Pony and want to own "Dapple."

Name.....R. F. D.....

P. O.....State.....

THIS COUPON IS GOOD FOR 1000 VOTES FOR "DAPPLE"

EACH CONTESTANT A PRIZE WINNER

All contestants will surely get a prize of their own choosing from a list which we will send them. Besides the Pony Outfit and Twenty-five Grand Prizes we shall offer Gold Watches, Base Ball Outfits, Gold Bracelets, Fountain Pens, Hand Bags, Flash Lights, Rifles, Shot Guns and dozens of other desirable prizes. If you become an enrolled contestant in this Pony Contest you can't lose. But don't let anyone persuade you that you can't win "Dapple" because you have the same chance as any other child.

Be sure to address postcard or envelope **THE FARMER'S WIFE** 305 WEBB BUILDING, ST. PAUL, MINNESOTA

V. 58

The Iowa Homestead

VOL. LVIII. NO. 3 DES MOINES, IOWA, JANUARY 16, 1913. WHOLE NO. 2884.

Overland

65% go to Farmers

IN the past five years we have built 60,000 cars. This year's output of 40,000 makes a grand total of 100,000 cars. *Sixty-five per cent. of this great production will be bought by the modern American farmer.*

Take Minnesota as one example: Minnesota is one of the nation's greatest and richest farming states. In the automobile registrations of the fiscal year Overland cars in the entire state of Minnesota show *a gain of 98 per cent.* The nearest competitor can show a gain of *only* 87 per cent. and the next *only* 55 per cent.

In Minnesota towns and villages of 1000 inhabitants, or less, Overland cars, for the year, show a gain of 136 per cent. The Overland's nearest competitor shows a gain of *only* 104 per cent. and the second nearest a gain of *only* 73 per cent. And so you find it all over the country.

The Overland has the approval of the majority of America's big farmers—the most substantial and practical class of people in America.

The 1913 Overland at $985 is the exact equal of any $1200 car manufactured. It has a powerful thirty horsepower motor. Seats five large people comfortably. This car has center control and tires of ample size. The springs are of the finest steel—three quarter elliptic in the the rear. The wheel-base is 110 inches. The rear axle is three-quarter floating, drop-forged and fitted with the famous Hyatt bearings; the front axle is an I" beam, fitted with Timken bearings. Overland brakes are unusually large and strong. t is completely equipped with top, windshield, Warner speedometer, Prest-O-Lite tank, and the very best of everything. Nothing is lacking.

Forty thousand cars in 1913 alone make possible this big value.

Look up the nearest Overland dealer at once. Secure a demonstration. Let us prove to you that the Overland is the most economical car you can buy. A post card will bring additional information, our 1913 catalogue and the dealer's address. Please address the factory, Dept. 80

The Willys-Overland Company

Toledo, Ohio

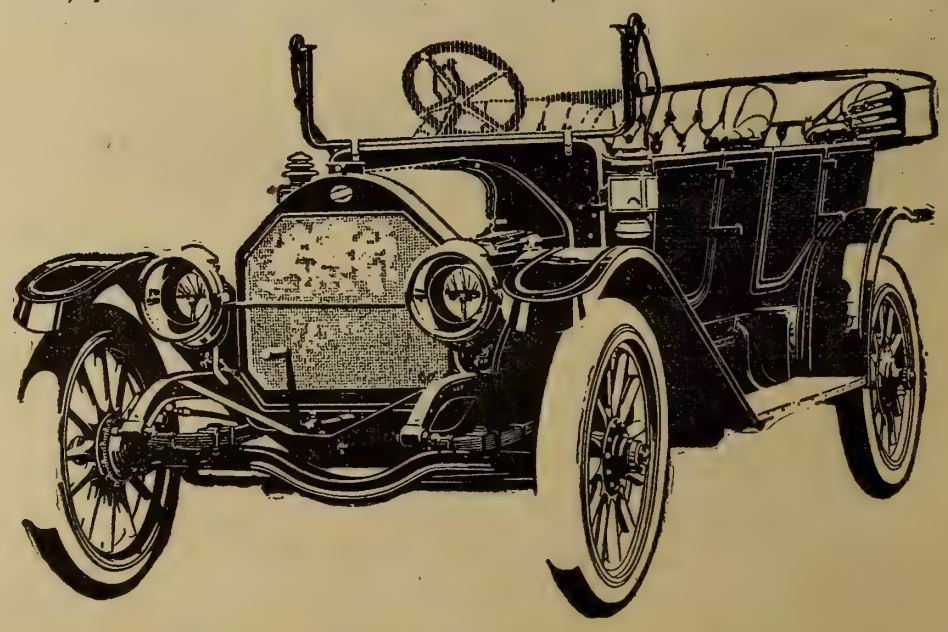
Our Big Instruction Book---Free

For a postal card you may have our big automobile instruction book—*absolutely free.* It contains over 100 pages; each page is illustrated with simple diagrams. The language is not technical; the young people will read it with interest and can understand every word. It tells you how to purchase, operate and care for an automobile.

We want you to have this book because it will help you and because it will help us. A thorough reading will prepare you to appreciate the good and bad features of automobiles. And such knowledge will only emphasize to you the very high Overland standard. Write for this free book—today.

$985
Completely Equipped

Self-starter
30 Horse Power
5-Passenger Touring Car
110-inch Wheel Base
Timken Bearings
Center Control



$985
Completely Equipped

Remy Magneto
Warner Speedometer
Mohair Top and Boot
Clear Vision, Rain Vision Wind Shield
Prest-O-Lite Tank

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JANUARY 16, 1913.

DELICIOUS, IN NAME AND TASTE

The story of how a grain-belt orchardist stumbled upon one of the most popular and edible varieties of apples and how a prominent firm gave it to the world of apple buyers and eaters.

DELICIOUS, BOTH IN NAME AND TASTE. THE THIMBLE AND SPOOL OF THREAD GIVE A GOOD IDEA OF THE SIZE OF THE APPLES.

THE story of the origin of the Delicious apple, one of the most popular of the early winter varieties, is exceedingly interesting. Nearly thirty years ago a sprout grew up under a Belleflower tree in the orchard of Jesse Hiatt, near Peru, in Madison county, Iowa. It made rapid growth and impressed with its vigor, Mr. Hiatt, an experienced orchardist, finally cut down the old tree in order to give the sprout ample room in which to develop. Mr. Hiatt was at that time about fifty years old and had grown apples all his life. He was amazed when the sprout had grown into a tree and borne its first fruit to discover the wonderful quality of the apple produced. From his long and varied experience he knew that he had an absolutely new variety and was convinced that it was destined to become a leader, if the proper parties could be interested in its propagation. The matter was put up to a number of Iowa nurseries, but notwithstanding the fact that they realized the fine points of the new variety they were slow to take hold of it, for the introduction of new apples is not generally profitable. Mr. Hiatt finally interested a prominent Missouri firm of orchardists who immediately recognized the value of the new apple and made elaborate arrangements to introduce it to the trade. They gave to the apple the name of the Delicious, having the name registered in the United States Patent Office as a trade-mark. Then began the slow and laborious task of working up a stock with only the wood of one tree to work from and also the task of testing out the variety in orchards and experiment stations in every part of the country. Their success is evidenced by the fact that eighteen years of testing have proven the Delicious apple adaptable to every section in the United States, the last few years finding its popularity increasing until it is now one of the most talked of and best liked apples in the country. The fancy specimens of this variety are bringing $1.50 and $2 a dozen at the fruit stores of the large cities, while there is never an apple exhibit without an artistic display of the Delicious, because of the fact that it loans itself so readily to exhibition purposes. Its waxy red color and its peculiar shape, with five protuberances at the blossom end give it an individuality and impress it upon the memory so that even the unelect are able to recognize and identify it. This is a strong point commercially in its favor, apple buyers knowing the variety and being able to pick it out regardless of the limited extent of their knowledge of other varieties.

Because of his success in bringing the tender sprout to maturity and interesting the prominent Missouri firm, which has since popularized it commercially, Mr. Hiatt is entitled to the same credit with the Delicious apple as Ephraim Bull, who gave the Concord grape to the world; C. C. Patten, of Iowa, who gave to the North Patten's Greening, and Peter N. Gideon, of Minnesota, who grew the Wealthy apple. Mr. Hiatt has gone to his reward, but the fame of the apple which he gave the world will long survive him. The original tree is still standing, but the orchard at Peru has passed into other hands.

The manner in which the Delicious apple loans itself to artistic arrangement for display purposes was strikingly shown in the window of a large fruit house in Chicago. A group of Delicious apples was painted by a world-famous artist, the foreground of the picture showing cloth of royal purple. The window trimmer matched the foreground of the picture with velvet of exactly the same shade, and handsome Delicious apples were then so arranged in front of the picture and upon the foreground of velvet that sidewalk observers could not tell where the real apples stopped and the painted replicas began. Not an apple show in the country, whether it be national or merely state wide, but makes a prominent feature of its display of Delicious. Not the least valuable feature of the Delicious is that it will grow successfully in practically all parts of the country, fruiting with equal certainty in the North and the South, the East and the West.

The expert pomologist who is interested in the technical description of this apple (without which his orchard cannot be a complete success) will find this description, made by the United States Division of Pomology, of interest and value: "Fruit large, roundish conical, ribbed; skin medium thick, tenacious; surface smooth except the ribbing; color yellow, washed with mixed red, splashes and broken stripes of crimson; bloom whitish; dots numerous, small, yellow, some indented; cavity regular, large, deep, gradual, russet; stem medium, stout; basin regular, large, deep, gradual, furrows and knobs; eye medium, closed; calyx segments medium, erect or reflexed at tips. Core conical, clasping, medium; seeds plump, medium,

MR. AND MRS. JESSE HIATT AND THEIR APPLE ORCHARD IN MADISON COUNTY IOWA. THE ORIGINAL DELICIOUS TREE IS THE LARGE ONE IN THE FOREGROUND.

(Continued on page 9.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

HEAVY DRAFT HORSES IN FAVOR

Although motor trucking is said to be in its infancy, and possibilities for its growth immense, the motor truck has not injured draft horse prices any yet. Instead, there has been a lack of desirable drafters at all the leading horse markets for several months past, particularly heavy draft horses. There are several reasons why the development of motor trucking will not hurt draft horse prices for a long time to come, at least under present conditions.

Motor trucking on a large scale must be done on paved streets, because of the economic necessity of hauling heavy loads. Country highways as a rule are unsuited to heavy traffic in motor trucks, except in a very small proportion of the country, hence the business has its limitations there. It is not enough that roads be made passable for automobiles, but they must be of more solid construction to stand the wear and tear of heavy trucks, which is a general movement in rural development too remote to threaten draft horses greatly. The price of gasoline is advancing so rapidly that dealers in gas machines are alarmed lest it reduce the general use of the machines. That is an item of sufficient importance to halt the encroachment of motor trucks on draft horses, if there is any danger thereof. While gasoline costs more, feed for horses costs less than heretofore, which is having its influence is stopping some truckers in cities from turning from horses to motors.

The drift in the manufacture of farm machinery for the last few years has been toward implements that would take the place of farm hands. Machines of greater power, operated by a single person, often do the work of several similar machines of a few years ago, each of which required a man to handle it. These heavier machines also call for more horsepower, which makes the farm demand for draft horses greater. Farmers who formerly got along with 1,000-pound animals now see the advantage of using horses of greater weight.

THE DISAPPOINTING "LIFE OF EASE."

The picture of a "life of ease" in the city has appealed to many a farmer in the past. The more the reverse side of the picture is studied the less strong will be the appeal in the future. We cannot refrain from reprinting the following article from one of the daily newspapers of the grain belt:

Three brothers came to this county a good many years ago and with their families settled on land that they bought all in the same neighborhood. They worked and managed and prospered. One by one, as they became old they sold off their personal property, rented their farms and moved to one of the good towns where they were wont to trade and where they were in consequence acquainted. Two of them, possibly the third also, built homes and made every preparation to spend life's evening in well-earned ease. That was several years ago. This fall one of these men now seventy years of age, husked sixty loads of corn, somewhere between 1,500 and 2,000 bushels, that grew on his farm. He moved back soon after he went to town because he didn't like it in town at all. Nothing like farm life for him. Another of the brothers has recently finished a neat cottage close to the old farmhouse where a married daughter lives. His wife wasn't contented a day during the brief period of retirement in town, but judging from the energy and enthusiasm which the old gentleman was putting into the work of helping a son build bunks for feeding cattle on one of the farms the other day it isn't "mother" alone who is glad they are back to the farm. The third of the brothers still lives in town. Has been there two years. How does he like town life? "Oh, not very well."

Here, we believe, is a typical case. All three of these farmers struggled for years to obtain a competence. They worked hard. They were up early and retired late. They toiled throughout all kinds of weather. They experienced fat years and lean years. Through it all was the will-o'-the-wisp allurement of a retirement to the city when enough money had been earned. This long-deferred reward was made to take the place of those temporary pleasures which would have broken the monotony of too much and too steady work. Another quarter section, another $1,000, always a little farther on in the future stood the castle of their dreams; a vine-covered cottage on a paved street in the city. They forgot the rumble of the street cars past the doors of the cottage; they forgot the heavy taxes and innumerable expenses of the city; they forgot the nerve-racking bustle and noise and utter indifference of neighbors in the city to which their fancy was always turning.

They know better now. They have had their fling at city life and are perfectly content to go back to the old farm and stay there, until they are carried away. There is absolutely no more effective way of summing up the whole subject than to borrow current slang and say: Life in the city isn't what it is "cracked up to be." It is full of heartaches and disappointments; of "what might have been" and "if it only hadn't been." There is a little town in the heart of one of the grain-belt states, one block of which is known as Widow's block. A few years ago every house was occupied by a retired farmer. But they did not long survive the transplanting, and today they lie in the town cemetery, their widows forming a mournful colony pointed to curiously by the townspeople.

These are things to think of when the picture of a retired life in town becomes too alluring. Remember how the picture looks when the bright light of fancied romance is taken off it. A few experiences such as we have cited above should offset millions of day dreams; a few heartaches such as the above testify to should be remembered, and should decide the question, when temporary enthusiasm seems about to make the farmer take a momentous step which he is almost sure to regret sooner or later.

IMPROVING THE TYPE OF BEEF CATTLE.

The chairman of the board of directors of the Union Stock Yards, John A. Spoor, has called attention to the present scarcity of cattle in a rather unique way. According to Mr. Spoor it will require a period of seven years before an adequate supply of beef steers are available for slaughter in this country. This being the case what objection could there be made if cattle raisers during coming years should make up at least a part of the needed increase by improving the quality of their cattle?

It will be conceded that a given improvement in the quality of our cattle can be made at a less cost when the number of breeding animals is small than could be made when the supply is normal. This is partly due to the fact that on account of the smaller number of males being required the quality of these males may be maintained at the highest standard. It would, therefore, be a great mistake if after the lapse of a seven-year period the farmers of the corn belt should be sending to the shambles the same class of low-grade steers. Men who have pinned their allegiance to a herd of pure-bred cattle and who have not lost faith should find their opportunity during the coming years. This opportunity consists in placing at the head of grade herds a larger number of good useful beef bulls than have ever been used in the past, and secondly, it should mean to them years of appropriate reward for their allegiance to the higher ideals.

It must be borne in mind that this seven-year estimate does not carry with it the suggestion that in that time the market can be glutted. There may be intervals when reckless marketing of half-fat cattle may depress prices to the point where there is little profit to the feeder, but these intervals are bound to be short. With such a rapidly increasing population and in the face of a strong tendency on the part of a large percentage of farmers to grain their land, it seems that those who painstakingly build up good herds of beef cattle whether these be grade or pure bred will justly earn and we believe reap a reward that will exceed in our opinion that obtained from similar effort directed in any other channel of farm affairs.

MAKING MACHINERY PAY ITS WAY.

No man should purchase a piece of machinery of any description unless by so doing he can see in advance that it will eventually pay its way out. In some instances certain types of machinery are used only a few days during the season, but in that time they effect such a saving in labor that they may be said to pay their way right from the beginning. Such machinery as the mower, binder, the sulky rake, the hay tedder, etc., are idle practically fifty-one weeks in the year. They belong to the class of absolute necessities, but if properly cared for they should answer the needs of an ordinary farm during a whole generation. The man who buys a self-binder, cuts four or five crops and hauls it aside as worn out cannot be said to be making a profit on that type of machinery. On some of the big wheat farms in North Dakota instances are known where a single binder has cut an average of 200 acres for a period of fifteen years. This simply shows what good care can accomplish and what "service" possibilities can be found in this type of machinery.

The gasoline engine is a representative of another type of machinery. It may not be an absolute necessity in running an ordinary farm, but on the other hand its sensible use may result in yielding much larger profits than some of the "essential" types. In this connection we would like to quote from a communication recently received from an Illinois subscriber, who says:

That the gasoline engine is a labor-saving and a money-making piece of machinery for almost every farmer, whether he be farming in a general way or raising fruits or truck will not be gainsaid, when the many uses to which they can be put are fully understood.

This little machine is now within the reach of most every farmer, gardener or fruit grower, and at nominal cost, and the uses that it can be put to are almost without number.

For the man with a greenhouse or large areas covered with hotbeds or cold frames, it can be connected with the pump and an ample supply of water secured for all purposes of the dwelling.

When the spraying season comes it is mounted on a wagon and there made to work the spray pump far more successfully than any other power that is available. At other times the engine can be used as stationary power, running the wood saw to cut the fire wood. It will run the fodder cutter or shredder, the feed mill, grinding stone, fertilizer mixer, and to begin to enumerate the uses to which it can be put would be no little task. In fact, I learn some new use every year. The uses here described will give the non-user a definite idea of what a gasoline engine is capable of doing when its power is properly harnessed.

The farm engine as now manufactured and sent out is so simple that any intelligent man need have no fear of not being able to run it. My advice, however, to intending purchasers is not to buy too small an engine; all purposes considered, four horsepower is as small as should be considered.

This is no poetic outline of gasoline engine usefulness, but on the other hand it is a mere matter of fact statement of what many farmers are accomplishing with this form of power. Here is a type of machinery that instead of standing idle fifty-one weeks in the year may be actually operated every week during the year. It can be put into service in bad weather as well as in good weather and in no way is its great usefulness shown more than in the manner in which time is economized when labor in the field is at a standstill. Where large quantities of grain are used for live stock the grinding of the same may be wholly accomplished when farm affairs generally are at a standstill and what is said of grinding grain applies to many forms of profitable employment that may be carried on indoors. Would that such a showing could be made for more type and forms of farm equipment as can be made in behalf of this comparatively new form of power!

THE SPECIAL FARM ADVISER

It will be quite worth while for individuals and whole communities to study the experience of those counties whose farmers have placed themselves in a position to be advised by a farm expert on practical agricultural problems. We have abundant confidence in the plan and we are pleased to note that the greatest degree of care is taken in selecting men for the work. For this position a man must have a comprehensive, practical knowledge of farm affairs and this must be combined with a rare degree of good common sense. The state of Iowa is going about the matter systematically with a hope of eventually placing an expert in every county in the state. Missouri is carrying out the same plan and exceedingly satisfactory results have been obtained thus far. At this time we are in receipt of a communication from one of our subscribers who may be regarded as a typical representative of experienced farmers. He has been farming for a period of forty years and yet is most enthusiastic in his endorsement of a farm adviser. He says:

It looks to me as if we were coming to a new condition of things on the farms of this country. I am led to say this by the announcement that in our own county a man has been stationed at one of the most central points for the purpose of helping the farmers to do their work more efficiently. This man has the authority of the national government, the state and the local chamber of commerce back of him. He is a practical farmer, as well as having had a good preparation in one of the leading agricultural colleges of the country.

It is proposed to have this man see the farmers of a certain territory at the meetings of granges or at specially called gatherings, talk farming over with them and suggest ways of doing farm work easier and better and with greater prospect of success. He will also in the right season visit the farms of his territory and look them over with a view to showing the owners just what is needed to make these lands most productive.

I have been interested in following the results of a similar attempt to help the farmers in a nearby section of the country, and I am glad to say the results have proven to be very satisfactory. At first the farmers were a little suspicious of the man assigned them, not because they had any reason to suppose that he was not competent, but because they felt afraid that it would not be of any practical value to them. They have changed their minds. I have heard farmers say who have attended the meetings held and come face to face with the teacher on their own places that they considered his work highly important. It is really bringing the agricultural college to the farmer.

It appears to me that great things may come from a movement of this kind. None of us know all about farming. There are always things we need to know, and how can we get this knowledge more surely and more satisfactorily than through the agency of one who is thoroughly competent to tell us and comes with the backing of the highest agricultural authority of the country?

Institutes are good. So are bulletins if prepared carefully and simply; but so should be these heart-to-heart talks with men of the class referred to. I believe we as farmers should stand by this effort to help us in our farm work.

We only repeat that this movement has received our strongest endorsement from the beginning because the farm expert is in reality the ideal connecting link between agricultural educational institutions and the farmer. In the past there has been an imaginary gulf between the majority of farmers and the college that is run by the state for their special benefit. We are not saying whether this has been the fault of the farmer or the college, but it is creditable to both that the newer method which has largely been devised by the colleges is meeting with such marked favor at the hands of farmers.

All silage that is scattered about the feed-alleys and mangers at feed-time, should be gathered up, as it soon deteriorates and causes a bad odor. This is especially to be guarded against if the refuse is about the dairy stalls, since freshly drawn milk is quick to absorb an odor of any kind, the taint also being transmitted to the cream and butter.

FEDERAL PROTECTION OF BIRDS

Federal protection of migratory game birds is being urged. It is argued that state restrictions do not suffice. Inasmuch as the varieties which feed on crop-destroying insects are dwindling in number, the temptation of each state to secure a full share of game birds during spring and fall migrations has been too active to permit of effective state supervision. Three bills are now pending in congress, one of them, the McLean bill, having the endorsement of the committee on wild life protection of the National Conservation Congress. This bill provides that "all migratory game and insectivorous birds shall hereafter be deemed to be within the custody and protection of the government of the United States" and that they shall not be destroyed except under restrictive regulation of the department of agriculture. Inasmuch as there are 610 species of migratory birds, it is argued that the problem is too big a one for state supervision, the birds belonging to the entire nation, but now undergoing slaughter at various times of the year under sanction of state laws. That this slaughter entails a heavy and direct loss to the farmer has frequently been pointed out, but we cannot refrain from reprinting the comment of one of the leading magazines on the matter.

The average man who knows that birds do protect the crops seems to underestimate the extent of the economic loss involved in the present slaughter. The Hessian fly in 1900 destroyed 2,577,000 acres of wheat in Indiana and Ohio, whereas ornithologists cite numerous examples showing how birds in vast numbers in Australia and in our West have averted the desolation of large territories threatened by insect pests. The United States Biological Survey is responsible for the estimate that the natural increase of one pair of gypsy moths, if unchecked, would defoliate the United States in eight years. Reports of the bureau of entomology declare that the destruction of crops in consequence of the decrease in the number of birds is constantly increasing. The annual loss is now estimated by Professor Forbush, the state ornithologist of Massachusetts, to be $800,000,000! That the United States has one remaining passenger pigeon in captivity may well serve to emphasize the pity of the situation. Scores of species that sportsmen and pot hunters are allowed to shoot for sport and for sale are of immense value to agriculture. Thus thirty species of shore birds eat noxious weeds. Gunners shooting legally are destroying 154 species of insect-eating birds classed by law as "game" in both the North and the South, while in the South they are also slaughtering many song birds, including the robin, similarly classified. In seven states—Louisiana, Mississippi, Maryland, North Carolina, Tennessee, Virginia and Florida—the robin is annually and legally killed as game! Five states expressly permit the killing of blackbirds as game. Cranes are shot for food in Colorado, Nevada, Nebraska, North Dakota and Oklahoma. Doves in twenty-six states, at a great loss to the farmers, are likewise killed as game. And these are merely cited as examples; many other useful birds are being destroyed.

Now that the conservation movement, as directed toward the preservation of forests, water rights, coal rights, and so on, has made such headway, it is only a matter of time until the conservation of bird life comes to occupy more and more attention. The farmer is coming to look upon insect-eating birds as one of his allies and will welcome any movement which looks toward the protection of his feathered friends.

HANDLING BEEF HIDES.

A Missouri subscriber calls our attention to the fact that beef hides are not handled properly by the average farmer. He states that it is not necessary to pay a big commission on them and in addition sell them as green hides at one or two cents a pound less than if they were cured. According to his plan as soon as the skin is removed from the animal it is spread out, flesh side up, and well salted, being careful that all meaty spots are given an extra salting. This salting absorbs the blood and cures the meaty portions so they will not putrefy and lower the grade of the hide. When the salting is finished the hide is wrapped in a bundle as nearly square as possible, and laid away where it will not freeze, the cellar being a good place in which to store it.

After ten days or two weeks the hide is ready for shipment, it having gone through what is called the "curing" process, and will bring from one cent to two-and-a-half cents more per pound than the "green" hide, that is, one which is sold as soon as it is removed from the animal. Another means of "curing" is to make a strong salt brine of several gallons, pour it into a barrel, wrap the hides as above directed, and place them in the brine, leaving them there from five to ten days. Of course, hides treated in this manner will freeze somewhat quicker than those handled as at first directed, but they will shrink less, as the brine aids in retaining the moisture, while with the first-named process there will be a shrinkage of several pounds in the course of curing. However, either method will prove very profitable for the small amount of time and labor involved.

USE THE PARCEL POST SERVICE.

We wish to urge upon all farmers the advisability of taking advantage of the new parcel post. A market for farm products is thus opened up which presents great possibilities. The daily newspapers of the grain belt contain advertisements of city consumers who desire to be put in direct communication with farmers and secure from them butter, eggs, dressed poultry and other small farm products which might be sent by the new postal system at the very low rate of five cents for the first pound and one cent for each subsequent pound (up to a maximum weight of eleven pounds) providing the shipment is made simply by city carrier or rural free delivery carrier and not by railroad. One of the daily newspapers of one of the leading cities of the grain belt has a department in its classified want ad columns headed Parcel Post, containing a number of advertisements of which the following are good examples:

Wanted—Correspondence with farmers who have butter, eggs and other farm produce for sale. Address blank.

Wanted—To correspond with some farmer who can furnish me with fresh butter, eggs and possibly a dressed fowl occasionally. Address blank.

Another newspaper published in the same city offers for a limited time to publish free of charge the names and addresses of all farmers who can supply fresh produce by parcel post direct to the city consumer, thus cutting out the profits of the middleman with the result that the cost of living will be reduced to the city consumer and the farmer will receive an even better price for his produce than he has heretofore. The mayor of this same city has prepared statistics showing that 1,168 farmers live upon the six rural routes emanating from that city. This shows the possibilities of the new service and the number of farmers who may profit by it.

An examination of the advertising columns of the home paper will undoubtedly disclose to the farmer opportunities to secure city customers which will greatly add to his profits during the ensuing year. Packages intended for transmission by parcel post may be given directly to the rural free delivery carrier or if the proper postage is affixed may simply be left upon the rural free delivery box where they will be d ly collected. Bear in mind that special "parcel post" stamps must be used and the proper value of postage in ordinary stamps will not answer the purpose.

GRAIN CORNERS PROHIBITED.

Corners on cotton, wheat, oats and other farm products are held to be in violation of the Sherman anti-trust law by a decision of the United States Supreme Court handed down last week. The question in issue was the criminal action against James A. Patten, because of his attempt to corner the cotton market by deals on the New York Cotton Exchange. The decision is far reaching inasmuch as it applies not only to this effort on the part of Mr. Patten and his associates, but to all similar efforts made frequently; notably the wheat corner of Joseph Leiter six years ago.

The supreme court, the highest tribunal in the land, holds that it is as much a conspiracy in restraint of trade to create artificial conditions in the marketing of farm products as it is for any trust to stifle competition and obtain a monopoly by buying out or freezing out all opposing companies, large or small. Corners on natural products necessarily impede and burden the due course of trade and restrict the common liberty to engage therein and are held by the supreme court to be contrary to public policy and common good. The language of the court is positive on this point:

It was a conspiracy to run a corner in the market. The commodity to be cornered was cotton, a product of the southern states largely used and consumed in the northern states. It was a subject of interstate trade and commerce, and through that channel it was obtained from time to time by the many manufacturers of cotton fabrics in the northern states.

The corner was to be conducted on the cotton exchange in New York city, but by means which would enable the conspirators to obtain control of the available supply and to enhance the price to all buyers in every market of the country. This control and enhancement of the price were features of the conspiracy, on the attainment of which it is conceded its success depended.

Upon the corner becoming effective there could be no trading in the commodity save at the will of the conspirators and at such price as their interests might prompt them to exact, and so the conspiracy was to reach and to bring within its dominating influence the entire cotton trade of the country.

Bearing in mind that such was the nature, object and scope of the conspiracy, we regard it as altogether plain that by its necessary operation it would directly and materially impede and burden the due course of trade and commerce among the states and therefore inflict on the public the injuries which the anti-trust act is designed to prevent.

The decision vitally affects the welfare of every farmer, as it removes those impediments to trade which have proved a burden heretofore. Under this decision it would be impossible hereafter for any person so to influence and alter the natural course of supply and demand as arbitrarily to increase the prices demanded of the consumer, without at the same time increasing the amount paid to the producer, by manipulating the stock market.

OUR RED LETTER SUBSCRIPTION OFFER

THE IOWA HOMESTEAD
KIMBALL'S DAIRY FARMER
WOMAN'S WORLD
KANSAS CITY WEEKLY STAR
PEOPLE'S POPULAR MONTHLY

All sent one year for only **$1.25**

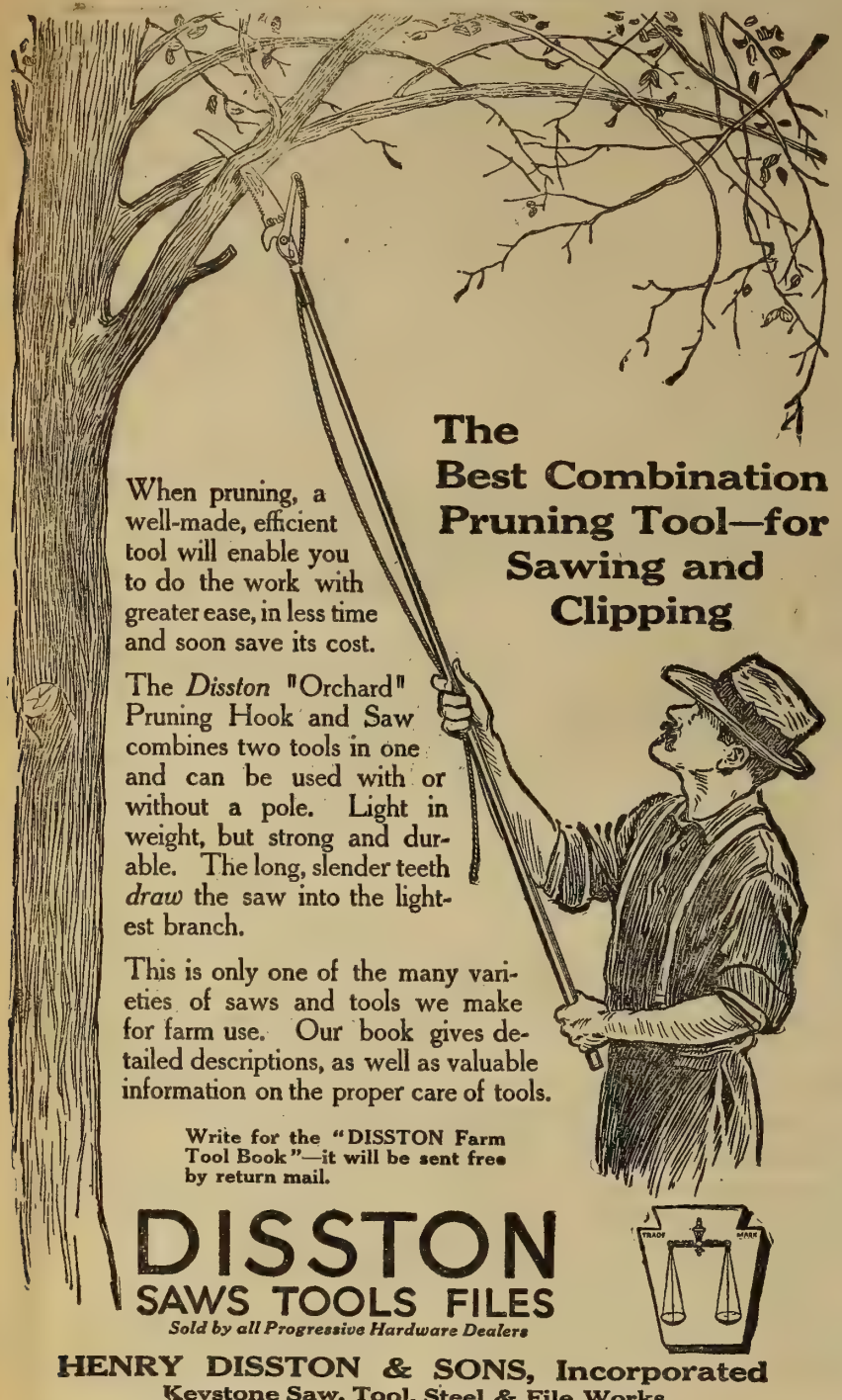
The regular price of these five splendid papers is $2.25 a year. By taking advantage of this unparalleled offer you secure a whole year's good reading matter for the entire family at only a trifle more than one-half the regular price.

Each of these five papers is a leader in its respective field. The combination makes a library of current news, useful information, practical advice and entertaining literature. Kimball's Dairy Farmer is practical and up to date, full of dependable advice and information for the man who keeps cows. The Woman's World is a monthly household magazine of striking and particular interest to the housewife who wishes to make her home attractive and to keep posted with what woman is accomplishing the world over. The Kansas City Weekly Star is conceded to be the newsiest and most reliable weekly newspaper published in the country. It presents the news of the world in a clear and concise manner, without political bias or embellishment. The People's Popular Monthly combines the best fiction, poetry and feature articles dealing with economic development, in a monthly symposium of interest to every member of the household.

The publisher of The Iowa Homestead has elaborate plans which will make The Homestead better, larger, brighter and more practical in 1913 than ever before. Every department will be continued throughout the year and will be in charge of practical experts who practice what they preach and who allow no unsound doctrine to creep into their columns. The Homestead will continue under the management of the same editor-in-chief, who owns and operates his own farms and gives to subscribers the benefits of his own personal and successful farm experience.

No more liberal or attractive subscription offer was ever made by any publisher. The introduction of our Red Letter Offer created a sensation among farm readers because it presented the maximum of farm and home reading at a minimum of cost. The opportunity is so splendid that it should be taken advantage of at once. Five great papers will be sent one entire year for only $1.25, being a saving of a whole dollar on the regular subscription price. Make your remittance today, so as to insure you getting all the big winter numbers of all these five splendid papers. Do not delay, but remit $1.25 at once to

THE IOWA HOMESTEAD, DES MOINES, IA.



The Best Combination Pruning Tool—for Sawing and Clipping

When pruning, a well-made, efficient tool will enable you to do the work with greater ease, in less time and soon save its cost.

The *Disston* "Orchard" Pruning Hook and Saw combines two tools in one and can be used with or without a pole. Light in weight, but strong and durable. The long, slender teeth *draw* the saw into the lightest branch.

This is only one of the many varieties of saws and tools we make for farm use. Our book gives detailed descriptions, as well as valuable information on the proper care of tools.

Write for the "DISSTON Farm Tool Book"—it will be sent free by return mail.

DISSTON
SAWS TOOLS FILES
Sold by all Progressive Hardware Dealers

HENRY DISSTON & SONS, Incorporated
Keystone Saw, Tool, Steel & File Works
P.O. Box 1537E , PHILADELPHIA, PA.

Don't Feed Your Last Year's Crops Into Idle Horses This Winter

Sell your extra horses and farm with an Avery "Light-Weight" Tractor and "Self-Lift" Plow. Don't keep idle horses any longer standing around eating their heads off.

Agricultural statistics show that farm horses average only about 100 full days work a year. The other 265 days time you have to feed them just the same—**all for nothing.**

You **can't** afford this expense—this waste—when **fuel for the Avery Gas and Oil Tractor costs less than horse feed.** And this means when working. When idle a Tractor costs you nothing for fuel.

An Avery Tractor and Plow Cuts Cost of Plowing in Half

Also **saves you money** in discing, harrowing, seeding, harvesting, hauling and other farm work. **Proved by definite cost records kept by owners** of Avery Outfits. Makes farming easier. Enables you to raise **bigger crops** by doing your work **better** and **quicker** at just the **right time.**

Don't stop with the few facts we can give you in this small space.

Write for Sold on Approval Terms and Avery Tractor Book

that shows how any man on a small or large sized farm can farm with power. Tells about the little 12-25 H. P. Baby Avery Tractor built for small farms—pulls 3 to 4 plows; the medium size 20-35 H. P.—pulls 5 to 6 plows; and the big 40-80 H. P.—pulls 8 to 10 plows. Explains how the wonderfully "Light-Weight" of Avery Tractors enables them to **travel on any ground** in fit condition to be worked with horses and why they don't pack the ground and waste fuel like the heavy weight tractors do. Shows why Avery Tractors are the **simplest tractors built.** Describes the Wonderful Avery No-Man Automatic "Self-Lift" Plow that does away with a plowman, saves hard backbreaking work and saves time. You or your boy can run an Avery Outfit alone. Tells about the Avery Company's Policy of Selling **on approval at low prices** and backing up with **strong guarantees.** Write today for 1913 complete Avery Tractor Book with Power Farming Facts and Complete Selling Plan. Address

Sold on Approval and Fully Guaranteed. Write for Complete Power Farming Facts and Avery Selling Plan.

AVERY "Light-Weight" Tractor and "Self-Lift" Plow

AVERY COMPANY, 1258 Iowa Street, PEORIA, ILLINOIS

Also manufacturers of Avery Undermounted Steam Traction Engines, "Yellow-Fellow" Grain Threshers and Gasoline Farm Trucks.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Seed catalogs and seed house advertisements remind us that it is time to plan for another season of bumper crops.

It is to be hoped that the major portion of the seed corn was carefully selected and stored in safe places, but no place is so secure that it will not be well to look after it occasionally. Mice and other vermin will do things to seed corn in a short time if given half a chance.

It is pleasing to note that neither the farmer nor his work is "copy" for the jokesmith for the city dailies at the present time. The farmer of today is a business man, and his farm is his place of business, and the best part of it is that his business is becoming more pleasant and profitable as the years go by.

A square rod of alfalfa well cared for would be of more benefit to the learner than a whole library of alfalfa reading matter and no real experience.

They tell us that the price of butter is on the toboggan and that the slide is greased with oleomargarine. This may be true, but it is a safe guess that the appetite of the butter-loving public will stand the slide so that the ride will be neither swift nor dangerous.

Those who are holding their breath for fear that the markets will be flooded with beef and pork when our present corn crop is fed out might as well hunt up something else to worry about. There will be no flood, because stock hogs and cattle are too scarce.

A short time ago, I noticed a handy device in a farm paper for skimming ice out of the stock tank, but it struck me that it would take more work to make it than to install a tank heater, also that it would take less work to keep the heater going than to cut and skim the ice out. Ice is all right in its place, but it is out of place in the stock tank in the winter time.

So far the weather prophets have missed it bad, as none that I know of predicted all this fine weather. I am glad the goosebone men proved false weather prophets.

The weather makes a great difference with all of us, in fact it pretty nearly rules the universe. The prosperity of the farmer depends upon the way the weather treats him, and the prosperity of all else rests with the farmer.

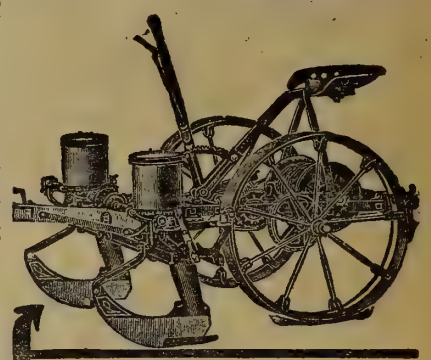
They are sending bricks by mail since parcel post went into effect, one Indiana manufacturer sending six tons of bricks as samples, each brick wrapped and going to a different address. They'll soon be sending gold bricks that way, no doubt.

A lone tree is a nuisance out in the field. It can be farmed around with no great bother with everything but a corn planter, but I, for one, will cut the tree before I will cut the check row wire every time I plant by a tree.

Motorists complain that much of the gasoline now refined contains too much kerosene. Kerosene in limited amounts is a good thing for a gasoline engine, for there is nothing to beat it as a carbon remover, but too much of it mixed with gasoline kills the power, particularly in cold weather. An auto can be run with kerosene, but the engine must be very hot when starting to use it and it must be kept hot or it will not ignite readily. It is not best to use kerosene in the place of gasoline, however, as all kerosene soon fouls an engine.

There is a difference of thirty cents a sack on flour at two different points near me, and the flour is of the same grade, too. I know the man who sells thirty cents the cheaper does not sell at a loss, but you couldn't get the man at the thirty-cent advance to admit that he makes anything at that price. Some middlemen try to make so much that they do not make anything, simply because they do so little business on their high-priced basis.

It certainly has been a fine fall season for getting through with the work. I heard a neighbor say yesterday that he had one little job left he expected to do before real winter came, but he has been trying to remember what it is for the last three days and cannot, so it must not be very important. Aside from the chores, for a farmer to be out of a job is something very unusual.



Mix Brains With Your Planting!

Use your head and get two to ten bushels more **per acre** and without any more expense or work. You can now do it because of an invention by which you can change the number of seed to the hill **instantly.** You don't have to stop. You don't have to get out of your seat. You simply pull a lever and it's done.

When you come to the **richer** parts of your field you shoot an extra kernel or two into each hill. And when you come to **thin** soil you plant **less** grains per hill. Thus you **waste no seed** and you make the **richest** soil raise the **most corn.** Besides, the poorer soil makes more and better ears if you don't overload it. **This is scientific and right.**

And it's just as easy and fast as ordinary planting. No extra work—just use your head.

Rock Island No. 1 Corn Planter

This planter is also instantly changeable from **edge** to **flat** drop. Both plates furnished free. It plants straight, even rows, whether horses walk fast or slow. **Positive** clutch that's absolutely **trouble-proof** and that **outwears four** ordinary clutches. Special flexible connection to front frame makes uniform planting certain, no matter how hilly your land. Adjustable width. Adjustable seat. Discs or runners. 30 or 36-inch concave, flat or open wheels.

It's the **masterpiece** machine of corn-planter construction. Has become the sensation of the Corn Belt in three seasons. Over 10,000 machines now in use and **all doing wonderful work!** More than pays for itself in one season.

WRITE! Drop us a postal at once and you will receive our latest Corn Planter Book and a copy of Prof. Holden's famous book on Corn Growing—ALL FREE! We will tell you where you can see a Rock Island No. 1.

Simply write this on your postal: "Am interested in the Rock Island No. 1 Planter." Then add your name and address and send the card to

Rock Island Plow Co.
183A Second Ave., Rock Island, Ill.

Test These Wheels FREE

30-DAY TEST WILL PROVE
that you can end the drudgery of high lifting and save your team on heaviest hauling over softest fields by equipping your wagon with *low*

EMPIRE STEEL WHEELS
Save 25% of the Draft

We will ship you set of four Wheels to fit your wagon for 30-day test. If they're not all we claim—return them and test costs you nothing. All sizes, fit any axle.
Ask for Special Money Saving Offer on 1913 Model Empire Farmer's Handy Wagon.
Twenty styles. Book free. Write today.
EMPIRE MANUFACTURING CO., Box 285 Quincy, Ill.

Advance FENCE
JAYBS THE SAME

Fence for every place on your farm—direct to you from nearest point of delivery—at *factory prices*—freight prepaid. Endless rust-resisting stays, lithe hill-fitting *special joint*, every rodguaranteed. *Send for money-saving catalog*—don't buy till you do.
ADVANCE FENCE CO. 166 No. State Street ELGIN, ILL.

Down On the Louisiana Gulf Coast They're Harvesting Third Crops Now

While you Northern farmers are watching your corn land, valued at around $150 an acre, lie idle under its cover of snow, the Louisiana farmer, on land bought at *one-fifth the price*, is preparing to gather the final crop of the year, planted *after* the corn was harvested.

He's *fattening* his bank account while you are *drawing* on *yours*. Winter is an *asset* to him, because he grows crops that bring him high prices just because *your* farm is idle. While your stock is housed in expensive barns and eating up the contents of the corncribs, the Gulf Coast farmer's stock is running in the pasture. Corn is a *money crop* to him, not a safeguard against cold.

Just about the time *your* hired man is bringing in a bucket of coal or shoveling off the snow the *Southern* farmer is getting a few oranges for breakfast.

The Climate Is Perfect—the Soil Is Deep, Rich, Inexhaustible—and There Is Good Growing Weather Every Month in the Year

January and February are the *plowing* months, and the *harvest* months run from now to December.

There's a *big dividend-producing farm* for you down on the Gulf Coast of Louisiana. The land will cost you *one-fifth* what land, not so good, will cost you in the North. You can grow *all* the staple crops you now grow. Your farm implements will do all the work for you there and your horses and cattle will thrive. With two or three crops a year instead of one, the bank account grows fat rapidly. There's none of the long waits between deposits; none of the heavy withdrawals for living and heat.

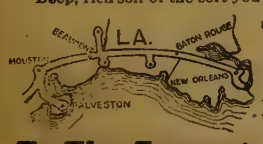
The few times a fire is needed there's wood for the hauling. There's none of the heavy building needed, either in the house or the barns, because they don't know what a blizzard looks like in Louisiana. The Gulf breezes take care of the North winds and drive them back.

In the summer, there's *hot, growing weather*, but the heat isn't of the withering sort, because of that same Gulf breeze. Louisiana with its 40 to 60 inches of rain a year, knows no droughts that cut off a crop just when it looks most promising. And the soil is *your* kind—you can have *your choice* of ridge, prairie or bottom land. It's all *deep, rich, fertile,* and practically *inexhaustible*. Thousands of acres of that prairie land have never had a plow on them. Cattle have browsed there on the rich, native grass and have done their part in enriching the fields.

The Splendid Advantages of Louisiana

To The Farmer:

A growing season 12 months long.
Two and three crops a year instead of one.
Deep, rich soil of the sort you are farming now, at one-fifth the price.
All the staple crops you now produce and **in addition** such money-makers as cotton, rice, sugar cane, lespedeza, and a score of others.
Labor at **one-half** the price you now pay.
Markets are as close or closer to you than any you now reach.
Outdoor life the year 'round.
No pioneering—**all the conveniences** of civilization—splendid transportation facilities. The opening of the Panama Canal, now but a short time off, will multiply the prosperity of the South many fold.



To The Farmer's Wife:

City conveniences that make work easy.
Electricity to do the washing and ironing, the churning and end the drudgery of lamp cleaning.
Telephones that bring your neighbors always within speaking distance.
Rural free delivery to keep you advised of the world's news.
Schools and churches of the best.
More time to devote to the chickens, garden and bees—the profits from which will educate the children.
Oranges, figs, lemons and other fruits from your own trees.
A climate that means health to you and yours.

Go and See for Yourself via the Frisco Lines

FRISCO LINES

Homeseekers' Excursion at low rates from your home town on the first and third Tuesdays of each month.

Send the Coupon for full information.

Get all the figures—learn the whole truth right away. Read the experience of hundreds of others—find out just what you can do. A superb book full of vital facts, actual photographs and the information you want sent free. Write today.

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I want to know the real facts about the Louisiana Gulf Coast. Please send me your complete literature free.

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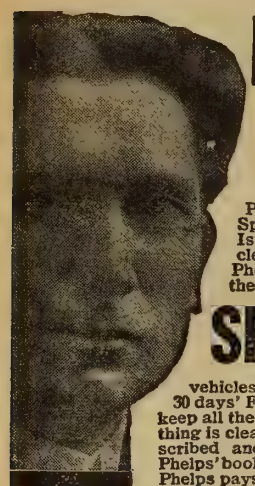
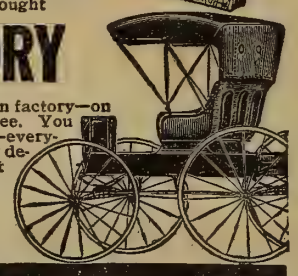


Do You Want to Save $25.00 TO $40.00 On Your New Buggy

Phelps says he'll save you $25 to $40 on a genuine Split Hickory. Is it worth a postal to find out? Is it worth a postal to see the 140 styles of vehicles and complete line of harness all shown in Phelps' new book. Is it worth a postal to learn the *reasons why* 167,000 *other* people bought

SPLIT HICKORY



vehicles? Phelps sells direct from his own factory—on 30 days' Free Road Test—2 years guarantee. You keep all the middle profits—you take no risk—everything is clearly photographed and accurately described and all *guaranteed*. Why not get Phelps' book so you can compare with others. Phelps pays postage if you write him a letter or postal. Just say "Send Book."

H. C. Phelps, Pres., The Ohio Carriage Mfg. Co.
Station 31 Columbus, Ohio

Rayo LANTERNS

Safe for the Stable

YOU can use a ***Rayo Lantern*** in the stable or anywhere with absolute confidence. It won't smoke, or smell, or leak, or blow out.

It gives a clear, bright light. It is strong and durable. It will stand hard usage. Easy to light. Easy to clean and rewick.

At Dealers Everywhere

STANDARD OIL COMPANY
(An Indiana Corporation)

After a hard day's work

take it easy. Settle down in the big arm chair and smoke a good pipeful of

Velvet
THE SMOOTHEST TOBACCO

2-ounce tin 10c

It will make you feel like a new man—for never before was there tobacco like Velvet.

It's the choicest growth of Burley leaf—delightful in fragrance, temptingly rich and flavorsome — smooth, satisfying and free from bite.

And with all its unmatched goodness, Velvet only costs 10c for a big, full size 2-ounce tin.

Don't do without it!

Liggett & Myers Tobacco Co.

CURRENT EVENTS

HEARINGS on the proposed tariff revision are in progress before the ways and means committee of the lower house of the present congress, the entire month of January being devoted to the public. This work is preparatory to the introduction of bills and the final hearings by the democratic ways and means committee of the special session which President Wilson will call probably about March 15th. It is announced that most of the schedules will be revised practically the same as the bills which were passed at the last session of congress, but which were vetoed by President Taft. Many of the leading members of the present ways and means committee will be absent after March 4th, only two of the republicans now on the committee (Payne, of New York, and Fordney, of Michigan) holding over into the new congress. Congressman Underwood, of Alabama, is certain to remain as chairman of the committee, the majority of the members of which will be democratic. It is confidently expected that before the extra session is called enough states will have ratified the income tax to enable congress to pass an income tax law, supplanting both the corporation tax and the proposed excise tax. Such an income tax, the democrats estimate, would supply from $80,000,000 to $100,000,000 of the government's annual revenue, a fact which will play an important part in the proposed revision of the tariff which will materially reduce the government's income.

IN A PUBLIC speech, delivered in New York a few evenings ago, President Taft announced that he favored putting the controversy over Panama Canal tolls, between the United States and Great Britain, in arbitration before a special tribunal composed of an equal number of citizens of both countries. The president does not believe that a just decision on this matter could be expected from the International Court of Arbitration at The Hague, because of the fact that practically every nation there represented has a personal interest in the matter and the decision would be influenced by this interest. In taking this stand President Taft sets himself over against a majority of the republican leaders of congress, most of whom maintain that the question of Panama Canal tolls is one which should be settled by congress alone, and (affecting a purely home governmental institution) is not one for settlement by foreign nations. Great Britain has signed a formal protest against the law as it exists at present exempting American coastwise vessels from paying the tolls demanded of foreign-owned vessels, contending that this exemption is contrary to the treaty between the United States and Great Britain which declared that no nation should enjoy privileges in the canal over any other. The situation was considered critical for some time, but it is confidently believed that it will be amicably settled in a short time, either by arbitration or by congress rescinding its action exempting American coastwise trading vessels.

JEFFERSON DAVIS, United States senator from Arkansas, died during the past week at his home in Little Rock, at the age of fifty years. He had the distinction to be the only man elected governor of his state three times. He had served in the upper house of congress for six years and was victorious for re-election at the recent primaries. A large number of candidates for his successor are already in the field, probably the most prominent being Governor Donaghey, whose recent action in freeing 360 convicts (because of the fact that they were farmed out on the contract system) brought him into prominence. It is possible that a special primary will be called within the next few weeks to settle the matter, inasmuch as democratic supremacy in the upper house is too insecure to permit of a democratic state being represented by only one member. In the meantime, J. N. Heiskell, editor of the Little Rock Gazette, has been appointed to serve until March 4th.

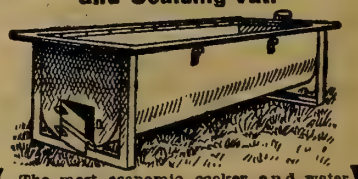
DEMOCRATIC supremacy in the senate is beginning to worry the party leaders. At present the democrats control the upper house of congress, over the republicans and progressives, by a vote of forty-nine to forty-seven. This narrow margin may be lost entirely, owing to prospective deadlocks in the legislatures of various states. During the past week President-elect Wilson held a conference with Senator Hoke Smith, of Georgia, and Senator Gore, of Oklahoma, in an effort to capture some of the legislatures and add to the democratic senatorial strength, the situation in Maine, New Hampshire, Illinois and South Dakota being gone over carefully. There is good reason to believe, however, that the vote will be so close in the senate that Vice-President Marshall will be called upon to cast the deciding vote, in which case, of course, the democrats will carry the upper house, thus giving them complete control of the legislative and administrative branches of the government.

THE most severe cold snap in twenty-five years caused a loss variously estimated from $20,000,000 to $40,000,000 in the orange and citrus belt of southern California. Practically every one of the 150,000 acres of fruit has been more or less damaged by the frost, in some cases (particularly in the region around Pomona, the very heart of the citrus belt) nine-tenths of the crop being destroyed. On receipt of weather warnings the orchardists set out

Columbian Hog Shed

Save corn by having a clean, dry, warm house for your hogs. They will grow and fatten faster. Little pigs should not be crowded. A Columbian Shed makes lots of room. There is no wear out to them. Will last almost a lifetime. Write us tonight for prices on different sizes. Do it now before you forget.

Columbian Feed Cooking Tank and Scalding Vat.



The most economic cooker and water heater made. You can cook feed, scald hogs, heat water quicker and with less fuel with this cooker than any other cooker on the market. The furnace is under the entire bottom of the pan, requiring less fuel than a tank heater. It makes a good watering trough the year round. Write for folder describing same, with prices.

Columbian Steel Tank Co.
Dept. H. Kansas City, Missouri.

MEN WANTED!

SOUND MEN—21 to 40 years old wanted at once for **Electric Railway Motormen and Conductors** in every state. **Wages $60 to $100 a Month.** Experience unnecessary. Permanent employment, no strike. Write immediately for Application Blank. Address **Manager Employment Department, Room 950, Dwight Bldg., Kansas City, Mo.**

WANTED A WORKING MANAGER and two first-class married men on a grain and stock farm. Must be qualified in all branches of farming and stock raising. Address **T. S. CARTWRIGHT, Marshalltown, Iowa**

CORN and COTTONSEED MEAL properly balanced makes finest ration for dairy cows and Beef Cattle. Our booklet, Science of Feeding, free on request. Write to headquarters for prices on best quality Owl Brand. F. W. Brode & Co., Memphis, Tenn.

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smudge pots, keeping fires burning throughout the night for three or four consecutive nights. A heavy wind blowing inland, however, drove the smoke clouds away, so that the frost continued its ravages. Following the cold snap a sudden return to the usual warm weather conditions added to the irreparable damage sustained by the fruit, so that not in many years have the orange and lemon growers of California confronted as poor a crop season as the present. So severe was the cold spell that water pipes in San Diego, in the extreme southern part of California, burst. The cold snap was particularly uncomfortable to the large number of eastern tourists who have been in the habit of going to California, in order to avoid the rigors of winter in the East and middle West, and who were totally unprepared for the sudden decline in the temperature.

PRESIDENT TAFT delivered his swan song at a republican reorganization dinner in New York a few evenings ago. He defended his administration and made an attack upon his political opponents, confining himself almost exclusively to the progressives. He declared that, while beaten at the last election, the republicans were far from disheartened or disappointed, believing that in spite of the adverse vote "we were still victorious in saving our country from an administration whose policy involved the sapping of the foundation of democratic, constitutional, representative government, whose appeals were calculated to arouse class hatred that has heretofore been the ruin of popular government, and whose contempt for the limitations of constitutional law and the guarantee of civil liberty promised chaos and anarchy." These allusions to Colonel Roosevelt and the party which he headed at the recent election show that the breach between the two former friends is as wide as ever. President Taft and Colonel Roosevelt sat quite close to each other at the funeral of the late Ambassador Whitelaw Reid; neither gave any signs of recognizing the other. At the New York dinner plans were laid for revitalizing the republican party, in the hope of making it play a more important part in the 1916 election than it did in the 1912. President Taft invited those republicans who voted the progressive and democratic tickets last fall to return to the ranks, promising that many of the abuses which drove them from the party would be corrected, although he did not go into detail or make any specific promises.

AN ECHO of the November election was heard in Idaho last week when the state supreme court sentenced three editors of one of the daily papers of Boise to serve ten days in jail and pay a fine of $500 each, for printing a statement made by Colonel Roosevelt attacking the court. It will be recalled that the Idaho Supreme Court denied the progressives the right to be represented on the ballot, a decision which called forth a stirring denunciation from Colonel Roosevelt. Publication of this denunciation by the Boise paper was held to be contempt of court and the editors were summarily sentenced. On Colonel Roosevelt's suggestion the fines of $1,500 were raised by penny contributions from all over the country, Colonel Roosevelt himself sending a fund of $10, consisting of pennies contributed from 1,000 residents of Long Island. Commenting on the action of the court Colonel Roosevelt said: "No anarchist agitator could ever do anything against the courts comparable in effect to those actions of the highest of one of our state courts. There could be no better proof than we need in any state the power to recall judges from the bench when they act badly and that everywhere we need to give to the people themselves the right expeditiously to make their own constitutions and to be in every act the master of their own destinies."

DELICIOUS, IN NAME AND TASTE.

(Continued from page 3.)

brown; color yellow; texture fine, tender, juicy; flavor subacid, very pleasant; quality good to very good. Early winter."

The fact that the grain belt gave this apple to the world is simply another evidence of its horticultural supremacy and of the fact that its orchardists stand foremost among all those of the country for their progressiveness and their determination to do everything possible to advance the science of pomology. That there is good money in growing the Delicious apple there are scores of grain-belt orchardists to testify, while the rare flavor of the variety and its beauty make it a good "runner" for the entire product of the orchard. Of an unsurpassed flavor and with a fragrance which is unapproached by the aroma of any other apple, the Delicious is a winner in the apple world and is rapidly growing in popularity, as the apple-buyers come to demand it more and more.

A Good Investment

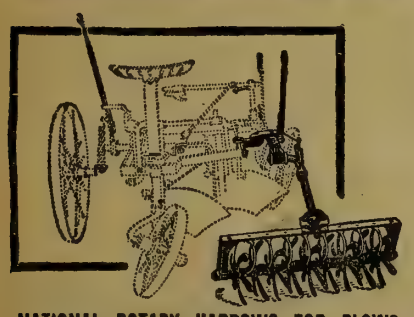
Get rid of roofs that are a constant expense!
Lay the roofing that is a real investment—

Genasco
THE TRINIDAD-LAKE-ASPHALT
Ready Roofing

It gives lasting protection to all your buildings, and increases their value.
The Good Roof Guide Book tells you why.
Write for the Book and samples—free. Mineral or smooth surface. Ask *your* dealer for Genasco.

The Kant-leak Kleet for smooth-surface roofings makes applications easy, and prevents nail-leaks.

The Barber Asphalt Paving Company
Largest producers of asphalt, and largest manufacturers of ready roofing in the world.
Philadelphia
New York San Francisco Chicago



NATIONAL ROTARY HARROWS FOR PLOWS

It will surprise you to know the low price that we are quoting the first ten farmers in each township on our famous Rotary Harrows for Plows, to quickly introduce them. We refund the purchase price and pay freight charges if not satisfactory. 75,000 in use and sales doubling each season. Pays for itself on first five acres plowed. Guaranteed to increase yield twenty per cent. The new way of harrowing as you plow proved to the farmers last season that it saves time, labor and money in preparing the seed bed. Write us today for special introductory prices and circulars.

NATIONAL HARROW CO., LEROY, ILLINOIS

EDE TANNING

Never hardens, never rots, never disappoints. It is water proof, moth proof, strong, soft and light. It will remind you of buckskin.

Ede tanning is so good that we let you test it 30 days before paying for it.

Don't send away hides and skins until you know all about Ede Robes and Coats. Write today for large free catalog No. 29, samples of linings and our $1000 guarantee.

EDES ROBE TANNING CO
Originators of Custom Tanning
DUBUQUE, IA., ST. PAUL, MINN.,
OMAHA, NEB., SIOUX FALLS, S. D.

GOVERNMENT Positions are easy to get. My free booklet X-1145 tells how. Write today—NOW. EARL HOPKINS, Washington, D. C.

Seven Million Watch-Towers in the Bell System

The original campanili were the watch-towers of old Venice, guarding the little republic from invasion by hostile fleets.

Later, bells were mounted in these same towers to give warning of attack and celebrate victories.

Judged by modern telephone standards, such a system of communication seems crude and inadequate.

In the civilization of today a more perfect intercommunication is essential to national safety, convenience and progress.

The Bell System binds together a nation of nearly one hundred million people, by "highways of speech" extending into every nook and corner of this great country.

Seven million Bell telephone stations are the watch-towers which exchange, daily, twenty-five million messages for the happiness, prosperity and progress of all the people.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES

One Policy *One System* *Universal Service*

The "FARMERS' PRIDE"

A General Purpose Saddle. **$10.17** That Fills Every Need.

Seldom is an opportunity offered to buy a good saddle at a low price, and never has so fine a saddle as our "Farmers' Pride" been offered at anywhere near the price we are quoting.

Just another example of Sears, Roebuck and Co.'s policy of distributing dependable merchandise at prices based on production cost plus **one** profit.

This is the way we make it.

TREE—13½-inch, Morgan style, steel fork and horn; sheepskin covered bars, making the saddle easy on the horse's back.
SKIRTS—21 inches long.
RIGGING—Double cinch rigged, with 1-inch tie straps to tie; 4-inch soft hair cinches.
SEAT—Half leather covered, roll cantle.
STIRRUP STRAPS—1¼ inches wide, full length, to buckle; fenders 6½ inches wide, 13½ inches long, attached; 3-inch Texas bolt stirrups.
Weight of saddle, about 13 pounds; packed for shipment, about 20 pounds.

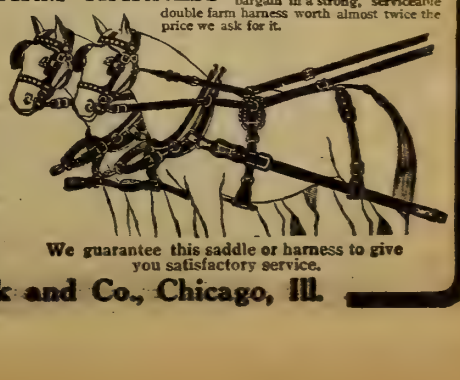
No. 10W351302¼ Price.....$10.17

Send us an order for either or both of these items and we will ship promptly. Your money back if you are not pleased.
Take advantage of these low prices now, as hides are scarce and leather is steadily advancing in price. This is an opportunity that will not be presented again.
Our complete line of exceptional values in harness, saddlery and accessories is shown in our beautifully illustrated 80-page special Harness Catalog.
Write "Harness" on a postal card, sign your name and address and we will mail you this catalog postpaid. Act now and send us an order and save money.

OUR "MANSFIELD" FARM HARNESS is still another money saving bargain in a strong, serviceable double farm harness worth almost twice the price we ask for it.

Following are the specifications:
BRIDLES—⅞-inch short cheeks, round side reins, sensible blinds, nickel spots.
LINES—1⅛ inches wide, 18 feet long.
HAMES—Wood, iron bound, square staple; Moeller hame tugs, jointed Concord clip attachments; 1½-inch breast straps and martingales, with collar straps.
TRACES—1¾ inches wide, Moeller clip cockeyes.
PADS—Flat harness leather, felt lined; drop hooks and terrets; nickel spots; folded bellybands; 1⅛-inch hip and back straps; scalloped safes, cruppers buckled on; Cooper's trace carriers, nickel spotted on outside.
TRIMMINGS—XC buckles.
Weight, packed for shipment, about 80 pounds.

No. 10W35567¼ Price. without collars **$32.79**



We guarantee this saddle or harness to give you satisfactory service.

Sears, Roebuck and Co., Chicago, Ill.

Making Concrete Blocks in Winter

Any kind of concrete work can be done satisfactorily in cold weather, if proper precautions are taken. Many farmers plan to do such jobs in winter, when they have more time than later in the season.

If you contemplate doing any building with concrete, you can easily make the concrete blocks now, and erect your structure in milder weather. The blocks may be made under shelter—without the discomfort of working in the open—and weather conditions need not interfere with the work.

UNIVERSAL PORTLAND CEMENT

gives unvarying results in concrete construction. It is uniform in quality, strength and color. Booklet containing instructions for doing concrete work in cold weather will be sent upon request.

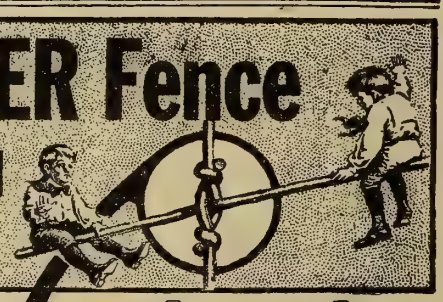
Write us for help in any kind of concrete work you may want to do.

Universal Portland Cement Co.

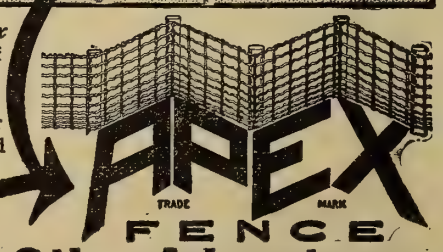
CHICAGO 72 West Adams St. | PITTSBURGH Frick Building | MINNEAPOLIS Security Bank Building

Plants at Chicago and Pittsburgh. Annual Output 12,000,000 Barrels

This BETTER Fence Follows Every Hill and Hollow



THE *swinging joint* allows *Apex Fence* to conform to the roll of the *land*. The upright stays clasp the line wires firmly, yet the line wires swing up or down hill or hollow, while the stays always stand plumb. It is the easiest fence to put up—no buckling or straining, no sagging or lopping. That makes a better fence, and *saves money* on the first cost.



Many Other Advantages Besides the Swinging Joint

The swinging joint makes Apex Fence the best fence bargain even if it were no better in other ways. But to make every part of the fence as good as the joint, we use only high-grade genuine *Open Hearth Steel—galvanized* by the most thorough and modern process that brains and money have been able to discover—and *guarantee* Apex Fence to *satisfy*.

Let us tell you some things worth while about fence. Let us prove that Apex Fence costs less per year than any you have had. We save you money in repair cost as well as first cost. Get the best you can buy and you will be pleased. Apex is now on thousands of farms giving the best of satisfaction. Shall we send you letters to prove it?

Get All Facts Before You Buy!

Don't buy a rod of fence for *any* purpose until you get our booklet. Just tell us about how much fence and what heights you'll need, and when you expect to put it up. Also tell us at what town you buy your fencing. We'll send you our free booklet and important facts, with an interesting proposition. We may have an Apex dealer near where you can see the fence. In any case, you will be supplied with fence promptly at the right price. Address

JANESVILLE BARB WIRE COMPANY
100 South Franklin Street, Janesville, Wisconsin

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

SYMPTOMS AND TREATMENT.

HOG-TIGHT FENCE.

A Subscriber, Sac county, Iowa.—Kindly print in The Homestead how a legal hog-tight fence is made—how high, how far between posts and what size the posts should be.

Answer.—A lawful hog-tight fence must be not less than forty-eight nor more than fifty-four inches high, consisting of not less than twenty-four-inch substantial woven wire on the bottom, with three strands of barb wire on top, or eighteen-inch woven wire on the bottom and four strands of barb wire on top, or good substantial woven wire not less than forty-eight nor more than fifty-four inches high, without barb wire. Barb wire must have not less than thirty-six barbs of two points to the rod. The fence must be fastened to good substantial posts set firmly in the ground, not more than twenty feet apart. The law does not fix the exact size of the posts.

DIVIDING PARTITION FENCE.

A Subscriber, Dexter, Iowa.—A owns a quarter section of land and B owns an adjoining quarter section directly north thereof. The partition fence runs east and west. A public road runs along the east side of the two quarter sections. B thinks that the partition fence should be measured from the north and south fence along the west side of the public road, and A contends that it should be measured from the center of the road where a stone marks the half-mile line of the section. The contention makes a difference of two and one-half rods. Each party is to keep up one-half of the fence. Which is correct?

Answer.—In dividing a partition fence for construction and repairs, between adjoining owners, each party is required to make and keep in repair one-half of the actual fence. In this case the actual fence will of necessity begin at the north and south fence running along the western side of the road, and not in the center of the road. Therefore B is correct and the partition fence should be measured from the fence on the western line of road.

CORPORATION—ELECTION OF DIRECTORS.

Mr. J. W. Blackford, Hillsboro, Ill.—There is a difference of opinion upon the question of electing directors of the American Poland China Record Association, as to whether a majority vote of the stockholders is required to elect, or whether the ones receiving the highest number of votes are elected. I took the position that as no by-law of the association required a majority vote, the law of the state prevailed, which does not require a majority. Was I correct? Article 7 of the articles of incorporation provides: "The affairs of this corporation shall be managed and controlled by a board of nine directors, who shall be stockholders, and shall be elected by ballot at the stockholders' annual meeting, to serve for three years and until their successors are elected and qualified."

Answer.—You were correct.

INSPECTION OF ANIMALS—SHIPPING.

Mr. E. W. Rice, Galesburg, Ill.—I expect to move to Iowa about the first of next March and will take with me some horses, cattle and hogs. The cattle are principally calves of mixed breeding, none registered or eligible thereto. (1) Will I have to have this live stock tested? (2) Is there a limit to the number of horses, cattle and hogs to be shipped in an emigrant car?

Answer.—(1) The law does not require you to have such live stock tested. (2) No limit is fixed by law. The railroad company may have rules and regulations on the subject. The railroad station agent may give you the information you desire.

INHERITANCE—PENSION.

Mr. B. F. Hayes, No Postoffice or State.—(1) A husband and wife had no children or descendants. They took a boy to raise, but did not adopt him. The wife died and the man married again and died. Who is entitled to his estate, and does the boy get any of it? (2) The man was an old soldier. Is his widow entitled to a pension?

Answer.—(1) We assume that the man lived and died in Iowa, leaving property there. The widow is entitled to half the estate, and the other half goes to the man's father and mother, or if one be dead to the other, and if both be dead, the half goes to the heirs of the parents. The boy is not entitled to any of the estate. (2) The widow is entitled to a pension.

VOIDABLE JUDGMENT.

A Subscriber, Ruthven, Iowa.—About seventeen years ago A gave his note to B for $30, which he did not pay. Four years ago A's wife was sued on the note. She paid no attention to the matter and failed to appear. A short time ago she was sued again and a judgment was taken against a farm belonging to her mother, her father having died some years ago leaving the property to the mother during her lifetime. (1) Does the fact that A's widow did not appear in the first suit make her responsible for the note? (2) Had B a right to obtain a judgment against the farm, the owner having nothing to do with the matter?

Answer.—(1) The judgment against A's widow was probably wrongfully made, but having been rendered, it will stand good against her unless it be set aside, and she is liable thereon. She can probably have it set aside by

SAW WOOD

Saw your own wood and save time, coal and money; your neighbors and

MAKE $5 to $15 a DAY

Hundreds are doing it

with an APPLETON WOOD SAW

We make 7 styles—steel or wood frame—stationary or mounted on truck with gasoline engine, making a

Portable Wood-Sawing Rig

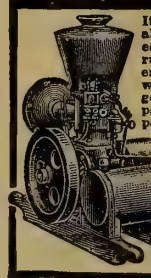
Rigid frame, lathe-turned arbor, running in self adjusting, non-heating, dust-proof boxes makes our saw frames simple, strong, safe and succesful.

We also make the famous **FRICTION-DRIVE DRAG SAW** **APPLETON CIRCULAR LOG SAW.**

Ask for our complete *free catalog.*

APPLETON MFG. CO.
639 Fargo St., Batavia, Ill.

20 Reasons Why You Should Investigate the SANDOW Kerosene Stationary ENGINE



It runs on kerosene (coal oil), gasoline, alcohol or distillate without change of equipment—starts without cranking—runs in either direction—throttle governed—hopper cooled—speed controlled while running—no cams—no valves—no gears—no sprockets—only three moving parts—portable—light weight—great power—starts easily at 40 degrees below zero—complete, ready to run—children operate them—5-year iron-clad guarantee—15-day money-back trial. Sizes 2 to 20 H. P. Send a postal today for free catalog, which shows how Sandow will be useful to you. Our special advertising proposition saves you one-half cost of first engine sold in your county. (167)

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74 Canton Ave., Detroit, Mich.

Sharpen Tools Quick!

Does toughest job of tool grinding in a few minutes without hard work. This wonderful tool grinder with its rapid Dimo-Grit (artificial diamond) Sharpening Wheels make 3000 revolutions a minute. No cooling by water or danger of drawing temper. Sharpens everything from a jackknife to a plow point.

LUTHER DIMO-GRIT GRINDER

has metal frame, enclosed shaft-drive, dust-proof bearings, runs easy as sewing machine. 25 times faster than grindstone, 10 times better than emery. Special attachments such as forge, milk testor, rip saw, jig saw, lathe, drill, etc., furnished. Fully guaranteed. Send for free book on tool grinding and liberal free trial offer.

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DITTO IMPROVED POWER FEED GRINDER

This new grinder is especially designed to run with a Gasoline Engine. Try it—no money down. I trust you—keep it if satisfied, if not, return it at my expense. I take all the risk.

AN HONEST MILL, SOLD IN AN HONEST WAY

Grinds ear corn, wet or dry, shell corn, Kaffir corn or any kind of small grain. Also make the celebrated Ditto Sweep Grinder. Write for FREE catalogue.

G. M. DITTO, Box201, Joliet, Illinois

HANDY FARM POWER

The tireless capacity of a **Hart-Parr Oil Tractor** makes it the handiest, biggest money-earning power for every kind of traction and belt work on farms of 160 or more acres.

You can use this tractor to better advantage than 15 to 30 sturdy horses, and at far less expense. It will do your field work—plowing, discing, harrowing, seeding and harvesting—in the shortest time; hence saves you money and swells your profits.

It does not injuriously pack the soil. The drivers of generous width, equipt with wonderful wave formed lugs, prevent this.

When your field work is finished, you can use that same tractor for countless belt jobs—threshing, grinding feed, shelling, husking, etc. It will also haul your crops to market in record time.

Many shrewd farmers add to their yearly earnings by using the tractor for road construction work in spare time.

No matter what kind of work you are doing, one man can operate and care for the tractor. For fuel it uses *cheapest kerosene* at all loads. The engine is *oil cooled*—no danger from freezing in winter.

Write today for catalog and literature on power farming costs.

HART-PARR COMPANY
228 Lawler St., Charles City, Ia.

***Special* Disc HARROW Bargain**

$19.00 *For Our* CELEBRATED Budlong-Ladow **12-16 Disc Harrow**

—Two Levers, Oscillating Steel Spring Scrapers, Steel Weight Boxes, 4-horse Eveners complete.

Tongueless Attachment $4.00 Extra

This offer good for a limited time only, to get acquainted and to induce early orders and avoid the rush during the Spring months.

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BOWSHER

Ground feed will make your hogs, steers, all animals bring bigger profits. Bowsher Mills do the job quick, because they are light running, with perfect conical shape grinders, different from all others. Sold with or without elevators.

Crush ear corn (with or without shucks.) Grind Kaffir in the head and all kinds of small grains. Handy to operate. 10 sizes—2 to 25 H. P. Also sweep grinders.

FREE Send for folder on values of feeds and manures.

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FEED MILLS

Cheaper Feed Grinding

Cob or grain—wet, dry or oily—the "Bull Dog" grinds most feed on least power. Can't clog—*force feed.* One set of rollers grinds 5,000 bu.

Bull Dog Burr-less Feed Mill
-Try It Ten Days Free

If it doesn't grind *faster, finer, cheaper* than any mill you ever saw, send it back at *our expense.* Write for details, stating H. P. of engine. **Letz Mfg. Co.,** 123 East Road, Crown Point, Ind.

Hardy's Hog House

"It's Portable," made of the best Corrugated Galvanized Steel with an all-steel frame. Guaranteed.

Protects the Sows and Saves the Pigs!

A warm, dry, sanitary, ventilated house. Made in three sizes. Pays for itself every season. Will last for years.

Write for our Price List

Hardy Manufacturing Co., 306 Union St., Pendleton, Ind.

proper legal proceedings. (2) Under the circumstances stated B had no right to obtain such a judgment, but as before stated, proceedings should be brought to have it set aside. The widow needs the assistance of a good local lawyer.

LEASE—OFFER AND ACCEPTANCE.

Mr. Charles Young, Bellville, Ohio.—I am a renter on a farm. My term expired on November 1, 1912, but previous to that time I received a letter from the owner saying I could have the use of the farm for one year more. Later I received another letter from him, offering the farm for sale, and saying if he does not sell the place I can stay on it another year, as he had given his promise to that effect. I have both of said letters. The farm has been sold and I got notice on December 8, 1912, to vacate by April 1, 1913. Can I hold possession of the farm as tenant for another year?

Answer.—The whole matter depends upon whether you accepted the offer of the owner made in his first letter. If you answered his letter saying you would accept his offer, and keep the farm for another year accordingly, it constituted a contract between you and him, but if you did not do this, then there was no further contract, and you cannot in such case hold the farm for another year. Two things are necessary to make a contract—an offer by one party, and acceptance by the other party.

CURE FOR CORNS—LICENSE.

A Reader, Farmington, Iowa.—I have an efficient remedy for corns and I wish to manufacture it and put it on the market at wholesale and retail. (1) Is it necessary to put the formula on the boxes? (2) I am not a doctor. Will I have to obtain a license in order to sell the remedy either at wholesale or retail?

Answer.—(1) The law of Iowa requires every package of such a remedy to bear a statement on the label showing the name and the exact quantity or proportion of any alcohol, morphine, opium, heroin, chloroform, cannabic indica, chloral hydrate, acetanilide, or any derivative or preparation of any such substances contained therein. This statement must be plainly printed upon the outside wrapper, in type "eight point caps"—provided in case the size of the package will not permit the use of eight point caps, the size of the type may be reduced proportionately. The printing must be such as to be easily and plainly legible. (2) All persons who by any method publicly profess to treat or cure disease, injury or deformity shall pay to the treasurer of the commission of pharmacy an annual fee of $100, upon the receipt of which the secretary of the commission shall issue a license for one year from its date.

REMOVAL OF TEMPORARY IMPROVEMENTS.

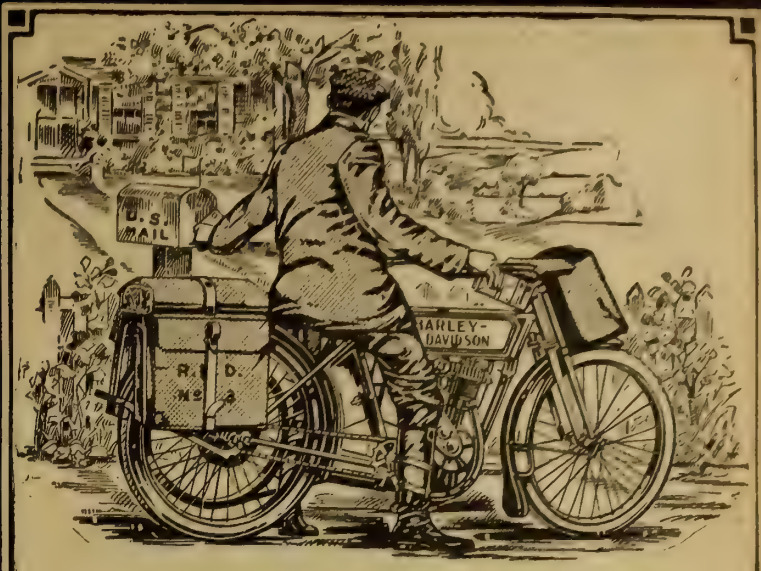
Mr. John Hyde, Rome, Iowa.—I live on a rented farm and I asked the landlord to build me a cattle barn for my milk cows. I have a lot of farm machinery and it is standing out in the weather and the landlord refuses to build a shed for it. In case I should build a cattle barn and machine shed would I have the right to remove them from the place when my term expires?

Answer.—You would have a lawful right to remove such improvements, provided you build them in a temporary manner for your own use, and in such a way that they can be moved without doing any damage to the premises, that is, leaving the place in as good condition as when you took possession as tenant. There is no certain or fixed way in which you are required to build them, only so they are not fixed to permanent foundations, so as to make their removal an injury to the place as you received it. You should remove them at or before your time as tenant expires.

DIVISION OF INSURANCE MONEY.

Mr. Avery E. Vardeman, Braddyville, Iowa.—A died in North Dakota about the last of October, 1912, leaving a $2,000 life insurance policy made payable to his mother. The mother lived in Iowa, but has been dead for several years. Her husband and all of her children are dead. A's brother had seven children, one of his sisters had six children, another sister had two children and another sister had one child. These grandchildren of A's mother are all living. How should the insurance money be divided among them?

Answer.—If the brother and sisters of A died previous to his death, the money should be equally divided among the grandchildren of A's mother, each one receiving one-sixteenth part of it.



A New Model of the Silent Gray Fellow

MORE pulling power at low speeds, more power on the hills, more reserve power for sand and mud. That was the demand our engineers set out to satisfy by building the

HARLEY-DAVIDSON "5-35"

(5 actual horse-power—35 cubic inches piston displacement). Dynamometer tests show that this motor develops 166 per cent. more power at 5 miles per hour than even the former 4 horse-power Harley-Davidson, which was the acknowledged leader in its class. 145 per cent. more power at 10 miles an hour, 80 per cent. more power at 20 miles an hour.

It will climb hills, pull through sand and over roads impassable to the average automobile. The "5-35" motor will pick up from a standing start to forty miles an hour in 300 feet. At low speeds this machine develops more power than some twin cylinder machines with higher horse power rating.

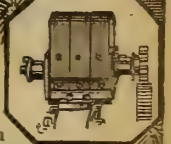
The Ful-Floteing Seat (an exclusive Harley-Davidson feature) places 14 inches of springs between the rider and the bumps. The springs absorb all jolts, jars and vibrations, making the Harley-Davidson ride as easy as the highest priced touring car.

The Free Wheel Control (another exclusive Harley-Davidson feature) is incorporated in each model this year. This device enables the rider to stop and start his machine by the mere shifting of a lever, thus doing away entirely with the tiresome pedaling and the objectionable running alongside to start.

Description of these and other features on request.

HARLEY-DAVIDSON MOTOR CO.
651 A Street **MILWAUKEE, WIS.**

A Big Hot Spark—A Quick Start



New Lauson Gear Driven Magneto is built right into the engine and entirely eliminates batteries, their expense and troubles. Won't wear out or get out of order. Throws a big, hot spark in any weather that never weakens nor fails. Can't burn igniter points.

LAUSON FROST KING
Gasoline Engines

Starts Easily.—The Frost King starts on the magneto without turning over. Requires no cranking. Positively Frost Proof.

Takes Less Fuel and oil and delivers more power because of special features and design. Replacements due to wear and breakage are all but eliminated by having the parts case-hardened or fitted with adjustments.

Perfect Balance.—Every part is accurately ground and fitted. Engine stands perfectly quiet even under full load—another proof of durability.

Satisfaction Guaranteed—or money returned. Shipped quick from all transfer points. Write for catalog stating power required and name of Lauson dealer.

1 to 100 H. P. All Types.

The John Lauson Mfg. Co.
202 N. W. St. New Holstein, Wis.

A Rest for Your Wife

Have you thought what a few hours pleasure a day would mean to your wife? How she would enjoy it—how much good it would do her? She can have it when you replace hired hands with a

GASPULL

Tractor

15-30 h. p.

This tractor will cut down your work and build up your profits. It will make all your work easier and do it better. It will do your work when it should be done.

A GasPull Tractor will cut out a lot of hired hands—your wife will have fewer beds to make—fewer dishes and clothes to wash. Think it over—see if a GasPull wouldn't help both you and your wife.

We have a Data-book, No. 352—it's full of valuable hints about farming and the GasPull. A card will bring it to you.

RUMELY PRODUCTS CO.
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Power-Farming Machinery

LINCOLN DES MOINES 467
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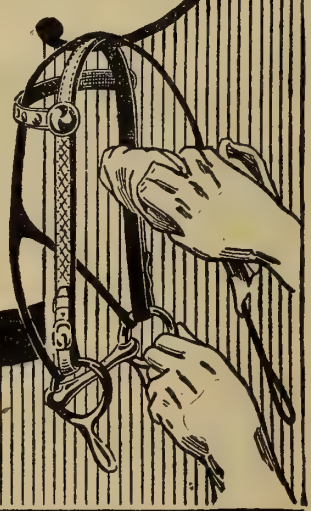
Keep it in the Barn

For Harness

Old Dutch Cleanser dissolves the greasy, dirty accumulations where the wear and contact comes. It gets under the uncleanliness on hold-backs, traces and collar, and washes it away. Mildewed spots quickly disappear without tiresome rubbing.

Old Dutch Cleanser shortens and lightens all the cleaning tasks in the barn and carriage house. Try it on the carriage top, the grain bins and feed boxes.

Many Other Uses and Full Directions on Large Sifter Can—10c.



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GUARANTEED AUTO-SPARKER
(Better than an everlasting battery.)

Catalog Free with full Information

Will generate current for ignition, and electric lights, charging storage batteries, etc. Suitable for all types and sizes of gas and gasoline engines. LET US TELL YOU HOW to MAKE your own ELECTRICITY
MOTSINGER DEVICE MFG. CO.,
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TRAVELING MAIL BOX

For those who have from 300 ft. to 1½ miles to go for their mail. Easily placed on telephone poles or 3 x 4's fastened to fence posts. The

OAKWOOD MAIL CARRIER

Made entirely of metal. Ball-bearing pulleys. Sold on thirty days' trial. Write for book "Getting the Mail." Oakwood Mfg. Co. 65 Stanton Ave. Springfield, Ohio.

HINTS-SUGGESTIONS-DEVICES

AND CONDENSED LETTERS FROM CORRESPONDENTS

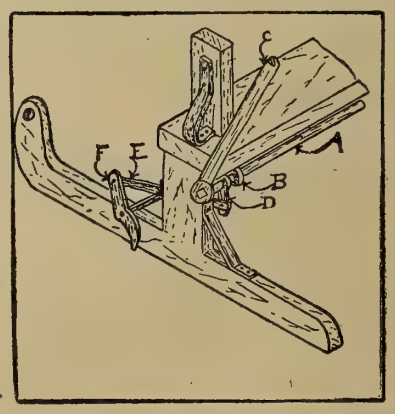
WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

HANDY WATER HEATER.

Many farmers now have electric lights, and almost all of these private light plants, have in connection with them, a storage battery which will furnish from one to twenty-five lights after the engine and dynamo have been shut down. That is, the battery will furnish the lights for a certain length of time. Possibly many of the owners of these plants do not know that jar or small bucket of water may be readily heated with the ordinary sixteen or thirty-two candle power light bulb. A water-tight, and moisture-proof bulb must be used, and inserted in the vessel containing the water as shown in the accompanying illustration. A thirty-two candle power light will boil a quart or more of water in about six minutes, or will keep a larger quantity warm. Do not turn on the light, until after it has been placed in the water, as this might break the bulb. Those who have the storage plant, above mentioned, can readily heat water, milk, etc., in case of sickness, any time during the night or day.

A Sled Brake.

A sled brake can be made as shown in the accompanying illustration that will take the load from the team when descending hills. To make this brake a round bar A is fastened to the front bob with heavy eyes as shown at B. A square head should be formed on



the outer end, over which is placed the lever C, by which the brake is operated. A lug D is made fast to the bar A and drops down four or five inches with a hole in its lower end, to which is bolted the bar E, which in turn is bolted to the dog F. By pushing forward the lever C the dog F is lowered below the runner and catches in the snow or ground, thus acting as a brake.

Why Tanks Taper.

Many farmers and others, when purchasing a wooden tank, never stop to think about the taper of the tank, or why it is tapered. Many who have used tanks that have little or no taper find that the tank has shrunk and the hoops no longer do the work they were intended to do, for the reason that in order to tighten the tank they must be driven below the proper place for them. Especially is this true of the smaller tanks that have solid hoops without lugs for tightening them up with bolts. A tank, to give good service, should have plenty of taper. If not, when the hoops are driven down, the lower hoop, in many cases, will be driven entirely off the tank, and the top hoop will be so far down that the

What Low Price Means To YOU

Read what I have to offer you:

A New 1913 Model Farm Engine

—So simple a child can run it;
—So economical, it costs but a cent or two for gasoline on a big job;
—So reliable, it won't go wrong;
—So efficient, a touch starts it going;
—So durable, I give you a permanent guarantee of satisfaction;
—And so positive am I that you'll buy one if I make my price low enough, that I'm going to sell my 1913 Model.

Galloway Engines

$50 To $300 Lower In Price

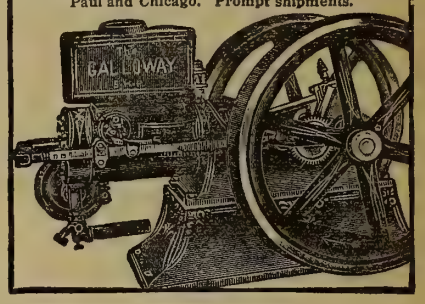
than asked for the next best engine on the market. You can't go wrong on a deal like this. My 30, 60, 90 days' FREE trial protects you. If you don't want the engine after the trial, send it back. I won't charge you a cent for the use you have had of it.

Free Book Reveals the Secret

of my exceptionally low prices and why I can undersell everybody on engine of equal quality. It also explains what a good engine should be and how much to pay for it. Write for book today, learn these things for yourself and get my special 1913 proposition and prices. Write NOW, before you forget it.

105BZ **THE WILLIAM GALLOWAY COMPANY**
Galloway Station, Waterloo, Iowa

Stocks on hand at Kansas City, Council Bluffs, St. Paul and Chicago. Prompt shipments.



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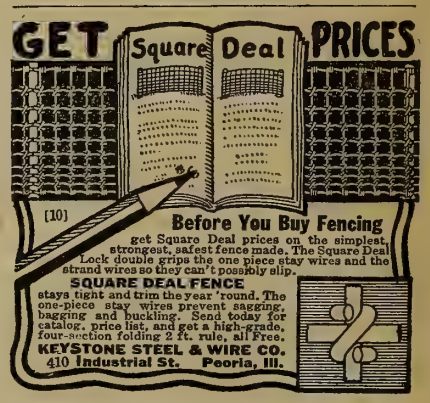

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get Square Deal prices on the simplest, strongest, safest fence made. The Square Deal Lock double grips the one piece stay wires and the strand wires so they can't possibly slip.

SQUARE DEAL FENCE

stays tight and trim the year 'round. The one-piece stay wires prevent sagging, bagging and buckling. Send today for catalog, price list, and get a high-grade, four-section folding 2 ft. rule, all Free.

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Jim Dandy Gates

All styles and sizes. Highest quality at lowest price. Let us send you descriptive circular and proof. Don't buy till you hear from us. Best materials, best workmanship, greatest strength, durability and convenience. Special Raise styles that beat all others. Walk and drive gates at prices that save you money. *Write Dept. A.*

JANESVILLE BARB WIRE CO., Janesville, Wis.

Old Reliable Four-Burr Mills

No Gearing No Friction

Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 2-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the Famous Iowa No. 2 mill for $12.50 Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

BOVEE GRINDER AND FURNACE WORKS
100 8th Street, Waterloo, Iowa

AGENTS SOMETHING NEW

Brandt's newly patented Combination Shaving Brush and Beard Softener. Little rubber fingers attached to shaving brush ends hand rubbing. Only sanitary method of rubbing in lather to soften the beard. Just the thing for a man with wiry beard and tender skin. Gives a facial massage with every shave. Prevents ingrowing hairs. Bristles set in rubber. Sells on sight; every man wants one. Write for wholesale terms and prices.

G. K. Brandt Brush Co., 42 Hudson St., New York City

Farmers Sons Wanted

with knowledge of farm stock and fair education to work in an office; $80 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. The Veterinary Science Association, Dept. 22, London, Canada.

staves will warp open and the tank will leak. Strange as it may sound, wood will not only season in water, but it will also shrink some, and for this reason, good tanks have plenty of taper. Many tank manufacturers do not give the tank its proper taper, as this decreases the capacity of the tank, and they must use more material if the tank is tapered and has the same capacity as the straight tank.

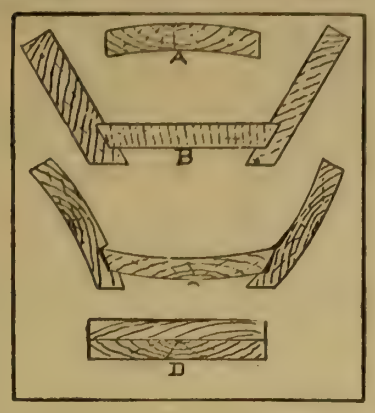
Poultry and Vegetables.

A Vernon county, Missouri, man has an idea that looks good, so much so that we herewith illustrate and describe same. The idea is one of getting the most from his poultry and vegetables, which he does in the following manner: His plot of ground consists of about five acres, which he has divided into two tracts. The entire tract, including the division fence, is fenced with poultry wire eight feet in height, with four gates. One side of his small farm is used for a garden and the opposite side for a poultry yard. After the vegetables have all been harvested and the ground plowed and planted to wheat, oats, or some grass, the poultry houses are moved over by hauling them with four horses. The poultry yard just vacated is at once prepared for the next season's vegetables. The idea, of course, is to utilize the poultry manure and provide a new and clean yard for the poultry. This man lives close to a good-sized town, and has no trouble to find a ready market for all of his poultry and garden products. The yards are used for laying stock only. The male birds are never allowed in this yard. The eggs are sized, graded for color and shape, dated and marketed in cartons holding one and two dozen, and they are nearly always spoken for in advance.

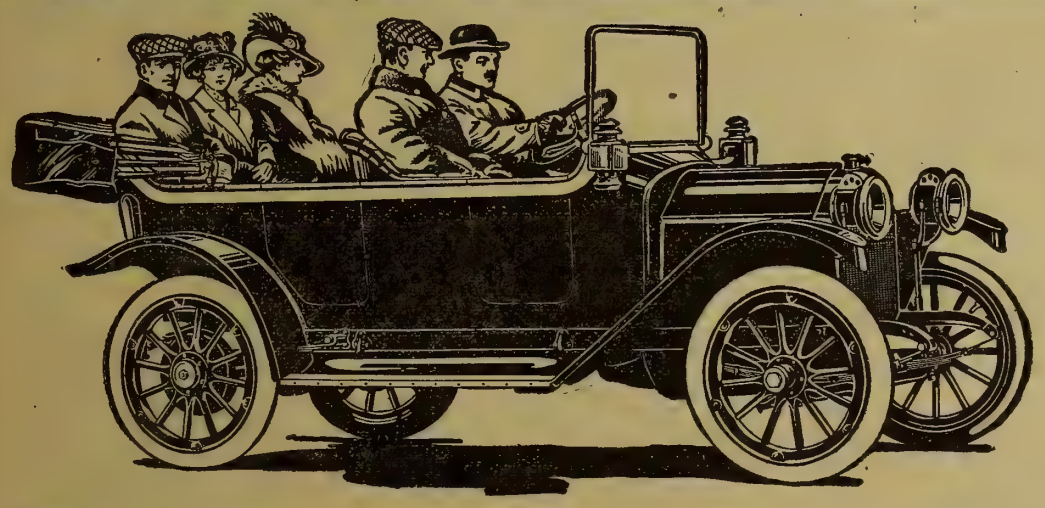
The poultry houses are well built, warm and kept in good repair. The hens for the laying yard are selected from his own flock of several hundred, well fed and well cared for, and this little five-acre tract brings greater returns than any forty acres of his 400-acre well-tilled farm. As shown in the exterior view of the houses, they are on runners, and are easily moved from one yard to the other, and as the idea involves no great expense, it looks as if many farmers who live near to large towns could go and do likewise, and enjoy an added profit. Good vegetables, as well as good poultry products, when properly crated, always bring top prices in any market.

Grain of Lumber.

A farmer was heard lately lamenting his luck in building water and other troughs. He complained that they warped and spung out of shape and soon leaked. Possibly the accompanying illustration and this short description will help many farmers in building troughs that will not leak. The warping, shrinking, etc., of lumber depends altogether on its grain,



or, that is, on how the grain runs through the board. In the illustration, A shows a board that was cut about the center of the tree, and directly through the tree. The tree being small the grain runs in a circle through the board, with a portion or all of the heart on the top or rounding side. This causes the board to not only warp, but to shrink as well. The trough shown at B was built of what is termed edge grain, or quarter-sawed lumber. As shown the grain runs nearly straight through the boards, thus we have no shrinkage except through the board, and it will not warp. Edge grain lumber will shrink in thickness, but not otherwise. In the trough shown at C we have lumber that is similar to the board shown at A and it will soon shrink and warp all out of shape. In building up timbers, where two or more pieces are nailed together, if the grains are placed in a reverse position, as shown at D, the warping of one will counteract the other, and the built-up piece will not warp and twist nearly so bad as one not so built.



$850 and $900

Fully Equipped. Special Equipment.

Nine Big Features:

1. Ball bearing throughout.
2. Long stroke, high power motor, unit power plant fully enclosed.
3. Full floating rear axle.
4. Left hand drive, center control.
5. Extraordinary braking surface.
6. Multiple disc clutch, running in oil.
7. Extra capacity tubular radiator.
8. Enclosed valves all on one side.
9. Platform rear spring.

The Detroiter—Your Car at Your Price

No longer consider an automobile a luxury. The Detroiter—the sensation of the year at $850--$900, is so low in price that it is easily within your reach. Better still, its upkeep is so small, its life is so long because of its durable construction, that you can easily afford to maintain it.

Low Cost—Low Upkeep.

No car at the present time possesses the features of the Detroiter and sells at anywhere near its price. Study the nine big features listed above and prove this statement for yourself.

In upkeep the Detroiter is remarkably economical. One gallon of gasoline=20 to 25 miles. One quart of lubricant=100 miles. With gasoline increasing in price, this remarkable economy of the Detroiter is a most timely feature—one that you will appreciate more and more. Its tires are over-size—making for economy here also.

In appearance the Detroiter is one of the handsomest cars, regardless of price.

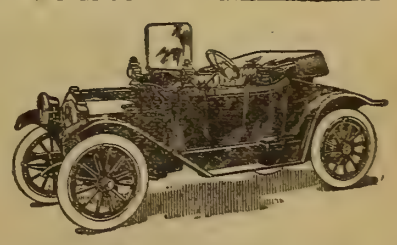
Rugged—Powerful—Durable.

Built to withstand hard usage, to travel unharmed over rough roads, through sand and mud and up steep hills—the Detroiter has met every test of service. It has ample power for every need.

Its durability—long life under severe conditions—is insured by such features as the ball bearings throughout, the full-floating rear axle, the numerous drop forgings, etc.

In short, the Detroiter is built for service—and it gives it every time.

Don't take our word for this. See the car for yourself. Write to us or to any of the following representatives. Make them prove everything we have claimed. Don't delay. Today is the best time.



Five Models—at $850 and $900—afford equipment to suit every preference. Top with side curtains and dust cover, windshield, kits, lamps, generator, horn and jack—with $850 model. In *addition*—Speedometer. Prest-o-Lite or electric outfit; quick demountable detachable rims, tire irons, etc., with $900 models.

Briggs-Detroiter Company, 481 Holbrook Ave., Detroit, U. S. A.

Principal Mid-Western Distributors: Clyde, Ohio; Clyde Auto Sales Co. Columbus, Ohio; F. P. Corbett. Chicago, Ill.; Illinois Automobile Co. Indianapolis, Ind.; E. M. Holmes. Kansas City, Mo.; Southwest Motor Co. Milwaukee, Wis.; Oakland-Wisconsin Motor Co. Minneapolis, Minn.; Brice Auto Co. Omaha, Neb.; T. G. Northwall Co. Webster, S. D.; South Dakota Motor Co.

The vital part of a plow is the plow "bottom." The high standing of John Deere plows rests on the excellence of the John Deere "bottom."

JD plow shares (quick detachable) are the greatest convenience ever put on a plow. They are the latest, simplest, strongest. Find out all about them. Write for booklet at once.

John Deere JD "Shares
For New Deere Sulkies and Gangs

Saves 80 per cent of the time required to change an ordinary share. JD means quick detachable—quick attachable, too. On and off quick is the idea.

Only one nut to remove. That nut is handy to reach, too. Glance at the picture. Take this one nut off and the share comes off. Slip the sharp share on and tighten up nut. Don't waste time changing old style shares. You really can't afford to. When you see this new share you won't want to.

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and start the day right. It makes ***cooking heat*** for the breakfast fire while coal would be lighting. Burns clean—no soot, smoke or clinkers—no ashes to sift. Gives more heat, ton for ton, than hard coal—with less care and at ***20% less cost.***

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to use our **FARMER'S FORGE OUTFIT** on your farm in doing blacksmithing and repairing. We have high endorsements for the thousands of Farmer's Forges sold direct to farmers within the past fifteen years in every state and Canada. Our Forges have hearths 24x26 inches, $11\frac{3}{4}$ inch blowers, run easy, and have all the first class qualities of high-priced forges.

WE POSITIVELY GUARANTEE our Farmer's Forges to be as large, as durable, do as much work and equal in every way any $10.00 forge on the market, and as represented or money refunded.

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VALUE OF DEEP PLOWING.

Deeper Plowing Endorsed by Practical Men, Because of Increased Yields Resulting from the Practice.

E. W. HARRIS:—I will give my experience on an old, run-down farm and the benefit which I think I derived from deep plowing. Five years ago I moved on the farm which has somewhere between forty-five and fifty acres in cultivation, twenty acres in land and the balance upland. The farm had been in cultivation seventy years when I moved on it and the bottom land had had but two years rest in that time, wheat one year and lay out one year with corn the rest of the time.

The fall I moved on the farm I bought the rent corn, forty bushels and forty-two pounds and the bottom twenty acres was in corn that year. Think of it, twenty acres of land making only 121 bushels and fifty-two pounds of corn and that of a very sorry grade! My friends told me that I could not make a living on that farm, as it was worn out, but I thought I could, so early in March of the next year I broke the bottom from seven to nine inches deep with a number nineteen Oliver chilled plow. The neighbors told me that previously the land had been broken from two to three inches deep with a small one-horse plow drawn by one horse.

The first year we had an overflow in May and my crop was almost a failure, so the next winter I broke the same ground with a small one-horse stirring plow, using two horses and plowing from eight to ten inches deep. That fall I gathered from eighteen to twenty-two bushels of corn per acre and so each year since I have broken my land from eight to ten inches deep and am gathering from twenty-two to twenty-five bushels of corn per acre. I have brought this land up from five or six bushels per acre to twenty and twenty-five bushels per acre and I am convinced that deep plowing did it, for I have put no manure on this bottom land, spreading all the manure I could get on the upland. I have also plowed the upland from six to eight inches deep and have brought it up to produce double what it did when I moved on the farm.

I am a strong believer in deep plowing and I think deep plowing is better in the fall of the year for the next crop than to wait until spring. The ground should freeze and air slack. I have noticed that my corn seems to stand a drouth better than my neighbors who do not plow as deeply as I do. Ten inches of loose soil will hold a great deal of water and then it seems reasonable when this ten-inch mulch gets soaked full of water the roots will go on down into the unbroken land.

Most of my land is broken now and next spring I think I shall try an experiment. I want to rebreak my ground in the spring, in March if possible, with a long plow on single stock with two mules hitched to it, letting the small plow a little deeper than I turned the land. I think this will be all right, as it will not turn the new dirt out on top, but will loosen up the ground deeper and give the corn roots more room and a deeper mulch to hold water.

F. P. MERCER:—I wish to add my mite as to deep plowing and will start out with actual experience. I have lived in Sumner county, Kansas, for forty years and have seen our rich alluvial soil greatly impoverished by constant shallow plowing. As 90 per cent of us came here very poor and horsepower was scarce we naturally plowed shallow. We were able to produce abundant crops of wheat, but times have changed and our land has failed to come up to our expectations. We have simply gotten into this old rut and cannot pull out of it and keep up our general acreage.

I have tried deep plowing and find we can renew our farms. Three years ago I put six horses to a two-disk plow of standard make and plowed a piece of land ten inches deep This field was distinguishable at a distance by the black green wheat, rye or corn that was growing on it and at harvest time it more than doubled my adjoining land. I have now decided to put in less acreage by half and plow my land in the fall, say in October or November before any freeze comes. This for two reasons: First, because my teams are rested and in good condition and the weather is fine; and second, then the wheat pests will all be turned up from their winter quarters and the consequences are that the soil will not contain a living thing.

Early in the spring I will disk and cross disk this deep-plowed land. This will produce a seed bed for corn that will make the corn stay green through most any hot, dry period.

I have made inquiry of a firm that manufactures a deep-tilling machine and I think I shall buy one for my

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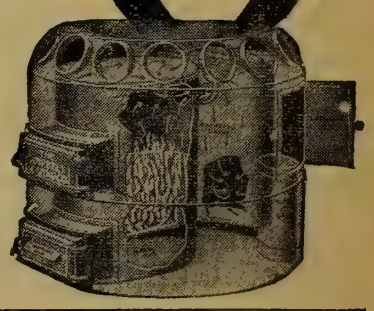

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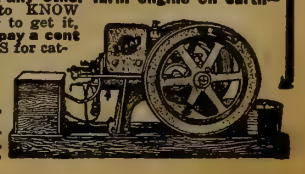

Termaat & Monahan Co.
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own use. These machines will go down to a depth of twenty inches, but they can be pulled by four good horses and regulated to a depth of ten inches. When this deep-plowed land is replowed there will be practically no bottom to it, as it has so filled up with moisture that it has no hard bottom to the furrow.

I have 320 acres of land of my own and for the last twenty-three years have had 320 additional acres leased, but I have turned this leased land over to my neighbors and intend to make a garden of Eden out of my half section. I shall make it my life's aim to plow deeper and do less than I have heretofore, that is, farm less acres, and by the aid of two large silos which I have on my farm and a good manure spreader I intend to get out of this aforesaid old rut.

FRED DEWEY:—In regard to deep plowing, I don't know as I know anything worth mentioning, but I am certainly in favor of it. I know that it is harder on horse flesh and takes longer to plow a given amount of ground. I will say here that it sounds good to hear of a man plowing 3½ to 4 acres a day with a 16-inch plow or 6 or 7 acres with a gang plow. I have used as good horses as any man, but cannot plow that amount. I can if I skim thereabouts, but I call anything under five inches beginning to skim, especially four inches. I never aim to plow under six inches. We all know how the majority of the farm renters skim over everything.

I am living on a farm now that had been rented for a long time and not much change from corn had been made. I moved here three years ago. Most of the ground had been listed the same way every year. Most of the soil is black loam with particles of sand shining in it when plowed in the spring. I bought the corn in the field when I bought the place and it would scarcely make fifteen bushels. The first year I plowed about six or seven inches deep in the spring and it was so lumpy I had to disk and slab before I could plant. I raised about thirty-five bushels per acre. I drilled this corn with a John Deere planter. The second year I plowed beam deep or so the end of beam would hit a good deal, but it was not so cloddy. I check rowed, but did not get a good stand, about thirty bushels per acre.

This year I double listed deep and it was so loose that my shovels would not scour. It is making forty to forty-five bushels on pieces that I have not changed to small grain. I contend that by deep stirring the water capillaries are broken and that stops the water from evaporating so fast. Also that in case of a heavy rain the deep plowing will absorb more rainfall and not wash away so badly. It will perhaps stay soft a day or two longer than shallow plowing. This plowing was all done in the spring. A year ago through all those hot winds and dry weather there was plenty of moist dirt a couple of inches deep and my corn hardly wilted any day. Neighbors remarked about its being so black and green. Now deep plowing may not have had anything to do with it; and it might have been the same with four or five-inch plowing, but I don't think so. I try to stir deep for any crop and work it good before planting, then I leave it to the elements and the Almighty for the outcome. I always cultivate deep, deeper a good deal than my diamonds every time.

JOHN KLINGELE:—In my opinion plowing should always be deep, as shallow plowing is of no use at all on our flat, hard-pan land, though one must be governed by the time of year or crop to be planted. Deep plowing should be done in the fall so that the freezing in winter will dissolve the dirt that might never have been plowed. This is important, for we know that roots will do best in rightly packed dirt. They do not easily pass a vacancy or thrash, never water. One can work two or three days sooner on packed ground than on loose. Spring plowing will hold moisture better than fall plowing, but fall plowing works up a much better surface and being winter packed counterbalances this. It will pay every corn grower to do some fall plowing.

Pasture or meadow land is much

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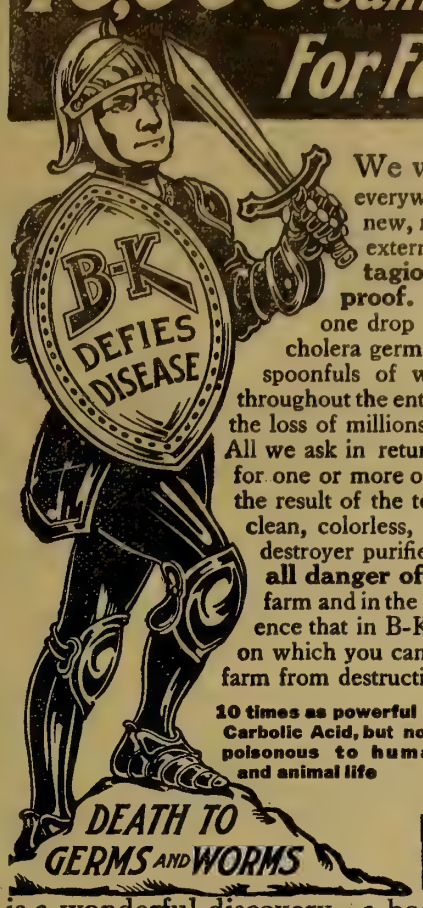

We want to put into the hands of farmers everywhere a large FREE bottle of **B-K** (Bacili-Kil) the new, non-poisonous, powerful disinfectant and disease exterminator which will enable you to **fight off contagious diseases and keep your farm disease-proof.** This new discovery is so powerful in action that one drop in five tablespoonfuls of water destroys the hog cholera germ instantly. One drop in four and one-half tablespoonfuls of water destroys the dysentery germ—and so on throughout the entire list of contagious diseases which cause farmers the loss of millions of dollars every year.

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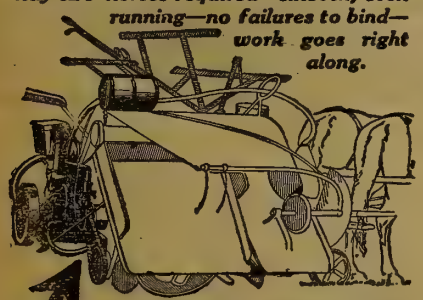

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A lady who had sold extracts all her life took up our work last winter and has made over $300.00 this year without leaving her home town.

It requires no particular ability to become a subscription representative. There is no reason why you should not make from $300.00 to $600.00 this winter, looking after my subscription interests in your locality.

If you prefer premiums to cash commissions, write us for a list of the nice presents we can make you for raising a club in your neighborhood. We have everything useful to give away from egg beaters to sewing machines and gold watches. Address

James M. Pierce, Publisher Homestead, Des Moines, Ia.

better if deep fall plowed and our experience is that this kind of land, if well plowed, will do as well as far as tillage is concerned for three or four crops and perhaps better if shallow plowed. We find on our level, hardpan land that deep fall plowing is best for corn, then we plow shallow or disk thoroughly for corn or oats for two or three years, as the case might be, and then plow oats land in July or August for wheat, plowing three to four inches deep, using one and one-fourth bushels of seed and 125 pounds of bone meal to the acre. We find this a better rotation than only corn and oats.

Farming is gambling with the season and plowing is gambling on the weather, but we often do things and don't know the reason why and it seems strange that as far as cropping is concerned the hit-or-miss farmer does about as well as any. However, this is not the case in the other lines of work that must be performed on the farm.

Iowa Beef Cattle Industry.

THE beef cattle industry of the state of Iowa was the subject of extended discussion at the hands of farmers and members of the Iowa Beef Producers' Association at a meeting held at Ames on the evening of January 7th. Prominent among those who took part was Chas. Escher, president of the association. Mr. Escher started out to account for the present shortage of beef cattle in Iowa by saying that some six or seven years ago everybody got the land fever and, in order to make payments on land, sacrificed their cattle stock. The shortage was caused in the range countries by the action of homesteaders and land seekers in settling up the range country to a great degree and turning it to agricultural purposes. The result was that the great steer producing herds that had previously been a prominent source of supply for Iowa feeders were forced out of existence. He believed that the clamor of laboring people for lower priced meat products had created a demand for butcher stock and been the means of restricting the prices on the more valuable beef cattle.

The purpose of the Iowa Beef Producers' Association is to educate farmers to realize the need of better cattle, to convince them that the use of better sires of pure breeds is essential in the promotion of the beef-producing industry. Cattle raising is an essential department of farm operation. Without cattle, the fertility of the soil cannot be maintained, nor can the products of the farm be utilized so advantageously. There is no farm in Iowa that would not be the better because of a well-proportioned equipment of cattle, none which would not suffer from the absence of cattle. The products of the farm, that is, its grains and grasses, should be sent to market in the finished form of live stock, and only by the employment of those breeds especially adapted to the purpose can the greatest profits be obtained. An estimate is made with the present supply of breeding animals it would take seven years to bring the number of cattle in this country up to a normal condition in keeping with the population and the demand.

The experience of the Escher herd was drawn upon to illustrate some of the more important facts connected with beef producing. A number of years ago the Escher herd contained something like 200 head of pure-bred cows. While these had been gathered together for the purpose of maintaining the herd from which to select breeding cattle, the opportunities for the production of high-class beef appealed to the owners to such an extent that they entered heartily into that plan. Their more prominent efforts were in the growing and finishing of show cattle in car lots. In the beginning, while they produced and put into the show rings animals of the highest order of excellence and fitted to a nicety, they had failed to meet with a proper appreciation because of their advanced ages. The cattle were too big, as the market demanded the so-called baby beef. Profiting by the lessons of the first two or three years, they turned their attention to finishing steers at eighteen and twenty months and there they succeeded in sending into the show rings cattle of phenomenal merit which were recognized and awarded in the most liberal manner. In a few words descriptive of the manner of growing these young cattle, Mr. Escher said that care should be begun before the calf was weaned. In his own operations he built a calf creep through which the little fellows could have access to a trough of grain which the cows could not reach. They early learned to eat and by this manner of treatment they reached a weight of from 500 to 600 pounds in the fall. Mr. Escher carries a curry comb instead of a comb, believing that kindness has its effect where roughness has a deteriorating influence. He talked to some effect on the need of utilizing the entire corn crop, either in the form of shredded fodder or in the silo or, still better, in both.

Rex Beresford, who is manager of the Iowa Beef Producers' Association, and in whose hands rests, in a large degree, the necessary exploiting and cultivation of the beef cattle industry, presented some figures of remarkable

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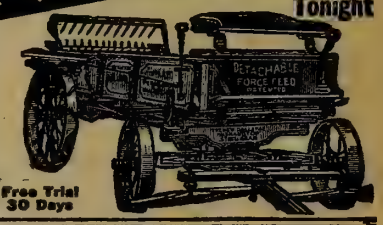

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I will give you a *better deal* on a tongueless disc than you can get *anywhere else in the world*. Let me *prove* it to you. Send me your name on a postal for my *book* and *offer*. My Company has made it possible for me to quote money-saving prices to the farmers of this whole country. We can do it because we have a modern factory in a medium size city, where expenses are less than in big cities—and because *we sell direct to you*. We do not have traveling men—don't even sell to dealers. Our machines have been developed so that they do not need to be set up and started by experts. We save those expenses and profits and *give you the benefit* of the saving. *Anybody* can say they give you the most for your money but I'm willing to put my proposition against them all and *let you decide*.

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No tongue to worry the life out of your horses—no neck weight—no side draft—and that means better work because your horses work *in comfort*. The Monmouth has the greatest Disc Blades ever made—better material, better temper. It's what we call "125-point Carbon"—very tough and hard—takes a splendid polish and holds a thin edge. Cuts like a finely tempered knife blade. Penetrates hardest ground—pulverizes lumps and cuts sod in a way that will do you good to see.

The Monmouth has a *steel frame* with Wood Cushion. The Main Cross Piece is Heavy Angle Steel—side braces are Stiff High Carbon Steel. Square timber through the center acts as a Cushion between side braces—gives it a bit of flexibility—keeps frame from buckling under heavy strain—prevents springing out of shape. Many other features all told about in my new book. Hard Maple, Oil-Soaked Bearings easily lubricated. Forward Trucks make it as easily turned around as a plow. Scrapers held by Coil Spring in just right position to prevent clogging—occasional foot pressure cleans discs in stickiest soil. Furnished with Transport Trucks, Cutaway Discs, Plow Cut Discs—in all sizes.

No neck weight—no side draft. Discs that are *sharp* and *stay* sharp. Wood Cushion that keeps bolts from shearing—prevents frame from springing. Many other features all told about in free book—and the best bargain-price ever made on any disc that approaches the Monmouth Quality.

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Dust-tight Hard Maple Bearings

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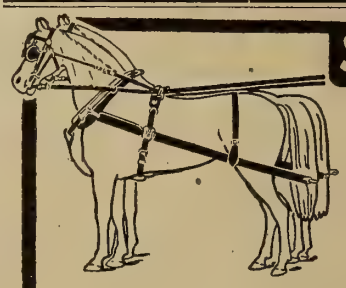

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import He stated that in 1900 the cattle supply of the country included 50,500,000 head while the population was 76,000,000 In 1912 the cattle products had fallen to 37,250,000 head while the population had increased to $95,000,000 This showed an increase of 25 per cent in the population or the country and a decrease of more than 28 per cent in the number of cattle. In 1900 the proportion of beef cattle to people was one to 1:5; in 1910 one to 2.2; in 1912 one to 2.5. Speaking of Iowa specifically, he showed that in 1900 Iowa had 3,940,000 cattle; in 1910, 3,041,000; in 1912, 2,773,000, or a loss of 29 per cent Referring to other states, he noted that the cattle loss in Kansas was 50 per cent in the Dakotas from 60 to 70 per cent, with similar losses in many other states. The inability of the ranges to produce feeding cattle in any numbers, he said, must compel the farmers to raise their own feeders. In his promotion work, Mr. Beresford had visited ninety-seven men who had already embarked upon the work of raising their own beef cattle. Some of the information he obtained was of particular interest. On twenty-four farms 816 head of cattle had been brought to an average weight of 832 pounds at an avarage age of fourteen and a half months. These had been sold at $69 per head, which was a profit of $7 each, the cost having been figured at $62 per head The basis on which this cost was estimated was corn at sixty cents per bushel, cottonseed meal at thirty dollars per ton, silage at four dollars per ton clover hay at fifteen dollars per ton and pasture at a dollar and fifty cents per month. On this basis he argued that corn, which is now sold at thirty-five cents per bushel, would, if fed to good beef animals, net a selling price of one dollar per bushel. This year, with a greater quantity of corn than ever before, the value is less because of the lack of cattle to which to feed it. As a means of presenting an idea of the value of cattle on the farm, he stated that from statistics collected from nine different farms it had been found that on the cattle farms the yield of corn was fifty-two bushels per acre and on the grain farms thirty-eight bushels per acre, while the average for Iowa was thirty-six bushels. By the use of corn silage and proper pasture methods he believed it easily possible to maintain a proportion of one animal per acre on any farm.

Geo. H. Burge, presented some interesting figures and arguments. From his vicinity, he stated that recently two cars of calves, composed of fifty-five head, had been collected by a shipper. Farmers, when questioned as to the advisability of selling their cattle at these ages, stated that they could not afford to keep the calves. Mr. Burge believed that it is almost a crime to sell good cows. He referred briefly to the proposed law regulating the selling of female stock. It is a duty of the farmer, he said, to raise beef cattle. The farmer has a moral responsibility to produce a sufficient supply of meat-producing animals. The beef-raising section is a small one in which Iowa occupied a prominent position and in which it held a proportionate responsibility. People, he said, cannot afford not to raise cattle. The scarcity in supply is apparent. Farm values are bound to increase, while labor is scarce. Better live stock, better farm machinery and better education along lines necessary to the production of cattle must necessarily follow if the farmer of Iowa perform his duty and gain the profit which is due him.

Speaking on the subject of "Corn and Cattle," Professor Curtiss stated that there was not sufficient stock in the country to eat the feed. This was due not only to cattle shortage, but also to the extraordinary losses of hogs due to cholera during the past season. Agricultural conditions he believed to be out of balance and that live stock must be increased in order to maintain the fertility of the farm and to re-establish the proper balance. There should be more cattle and more corn, as the two necessarily go together. Statistics prove that Iowa ranks first in products because of the prominence of its live stock industry. The professor referred to the economy sometimes advocated of an all grain and vegetable diet for humanity. He believed that men and women, fed well, must depend on the beef diet for strength and vitality. He believed that much of the welfare of humanity depends upon the concentrated, vitalizing meat and dairy products. He believed that producing people was the business of the world and that industries which forwarded that object should be considered of greatest importance and that the live stock industry leads among all these. We should maintain our agriculture. We should leave our lands better than they were when we got them. We can do so only through the use of live stock.

MIDWINTER WITH SHEEP.

To the Editor of The Homestead:

We have learned that if we can get our sheep through the winter in good shape they will be pretty apt to do well all the rest of the year. Sheep that come out in spring skin poor are surely under a great handicap. They cannot be expected to produce as good lambs, nor are they capable of bearing as good fleeces of wool. This cuts down the profit for the year very materially.

In the first place, then, we like to give our sheep a good place to stay, a place where they will not be worried by other stock or molested by dogs if we can. This does not mean necessarily that the barn shall be warm all the time. Sheep are naturally warm blooded animals and their fleeces protect them from the cold, but they do need a shelter from cold storms and raw winds, as well as a good clean place to lie and clean troughs to take their grain and other feed from.

And then the feed makes a lot of difference. Clear timothy hay is about as bad feed as we can give sheep. It is constipating and constipation is the bane of any animal. If possible some clover ought to be given regularly. Clover is the best all-round grass feed that can be given. Even with clover a bit of grain is a great help. This will not need to be as heavy if we have clover as if we are depending on timothy, for clover is rich in itself. Wheat bran is a fine grain, no matter what the rough fodder may be. The same may le said of oats, which I consider one of the finest all-round grains for sheep that we have.

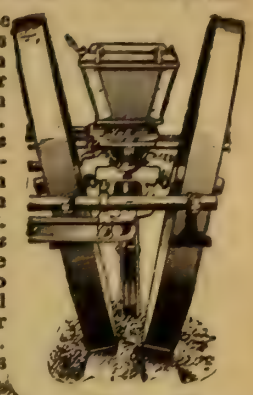
Watch sheep while they are eating roots in winter and you will at once conclude that these are highly necessary to the well being of these animals. Anything they enjoy as they do turnips, for instance, must surely be good for them. But we have learned that it is impossible to keep sheep in good physical condition and yard them too closely. They need exercise, not once in awhile, but every day. This keeps the blood stirring, the bowels in better condition and the general health good. These things will almost certainly have the effect of bringing us some good lambs in the spring and make it reasonably sure that the sheep will come through well and thrifty, ready for the work of another year. E. L. Vincent.

Get Your Corn In ON TIME

Thousands upon thousands of corn growers lose heavily every year from *delayed* planting. Just as soon as your fields are in proper planting condition you can *rush* work with the **Hayes.** Permits earlier and faster planting, forces quicker and surer growth —important factors in the success of the corn crop.

Hayes Four-Wheels *cover where all ordinary open wheels fail.* They open at the top and clean themselves. Guaranteed not to clog or carry the corn over, even in wet and sticky soil. Insures a stand even in low wet spots of field and *allows earlier planting.*

Hayes Four-Wheels guarantee *surer germination* and *quicker growth.* Wheels pack the dirt from the sides to hold the moisture and leave a ridge on top so that corn sprouts quickly and comes up several days sooner. The ridge gives greater surface for sun's heat and prevents washouts in hilly fields. This method *assists the budding sprout,* protects its vitality and makes stronger and healthier stalks.



GUARD Against Loss From Uneven Planting

Uneven depth of planting means a bigger loss than many realize. It's *especially bad* in cold, backward seasons. Often amounts to several times the cost of a planter in a single year. Avoid a planter that covers part of the corn so deep that no matter how good the seed or how rich the soil *many of the hills never come up*—or leaves other hills uncovered so that the sun and wind *destroy or stunt their growth.*

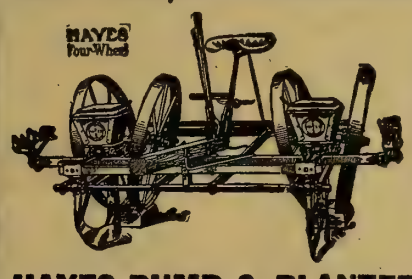
Hayes Four-Wheels regulate depth of planting to the fraction of an inch—this planter plants every kernel *exactly the same depth.* Here's why: Runners set back between the wheels, within 10 inches of the covering point. In going over ridges, dead furrows or uneven ground the shoe *rises* and *falls* with the wheels. **Hayes** planted corn all comes up at the same time, (proof of even depth of planting) and *allows earlier cultivation.*

THIS Planter Never Misses A Hill

The **Hayes** Drop *never fails.* It is the simplest, most durable and most efficient ever made. Fewer parts, less breakages and delays. Has no clutch to miss and give trouble. *Never cracks or grinds the seed.* Will drop accurately any size or shape kernel. *No bare spots* in **Hayes** planted fields. Increased yields soon pay for it.

No matter how fast you drive, the **Hayes** *always plants in perfect check.* Cross rows straighter than the way you drive. Easiest handled planter. Also shortest coupled, making it the *lightest draft,* and turns in *shortest space.* For these reasons you can plant from *three to five more acres a day* with the **Hayes** and get your corn *in earlier.*

OVER 160,000 Satisfied Users Know



In our Free Booklet of Planter Facts, we make it clear to you why the profits of one season—the time and trouble saved—the increased yield—will more than pay for a new **Hayes.** Think these things over and start investigating *NOW.* Learn the overwhelming advantages in **Hayes** Four-Wheel construction. Take time to find out all the facts before you make your choice. *Ask any* **Hayes** *user.*

Can be furnished with perfect working Fertilizer and Cow Pea Attachments, also Stub Runners or Discs if preferred.

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Lankford Humane Horse Collar

Horses with sore shoulders can't use their full pulling power. The Lankford Horse Collar, if properly fitted, is guaranteed to cure sore shoulders and galls. It is filled with medicated soft cotton which absorbs the impurities of the sores and keeps the shoulders cool and comfortable even while the horse is at work. Built for hard service and gives it. Easily adjusted to fit any shape neck.

Buy a Lankford Cotton Filled Horse Collar and save your horse and veterinary bills. The prices range from $1.25 up. Send today for Free Book. If your dealer hasn't the Lankford Collar, write us.

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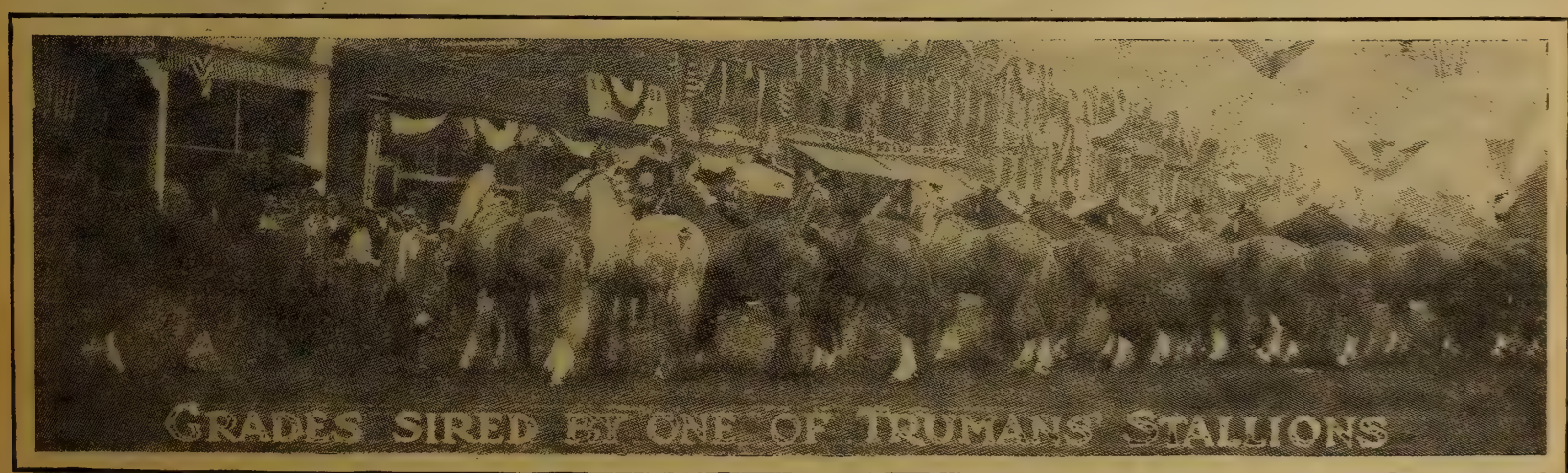

STRIKING EVIDENCE OF WHAT A GOOD SIRE WILL DO. THESE HORSES WERE SHOWN AT THE MT. PULASKI, ILL., HORSE SHOW AND WERE ALL SIRED BY A SHIRE STALLION IMPORTED BY TRUMANS' PIONEER STUD FARM, BUSHNELL, ILL. SEE PAGE 55.

The Chance to Save the Dollar

It is right here. Your seed is right, your cultivation is right, and the weather is right for a bumper crop; but if the manure or fertilizer is not right you stand to lose the bumper crop even if you do succeed in making a small one. When you want a big crop, (and most farmers do) it is up to you to feed for it, because your soil does not contain enough **available** plant food. That is where

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do their work. They supply to growing crops in available form the plant food elements required which in connection with good seed, cultivation and weather and the plant food supplied by the soil and air, are producing good crops of profitable size and quality. Farmers depend upon them as upon other old friends, and have done so for years.

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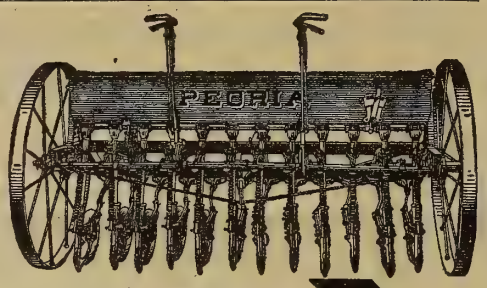
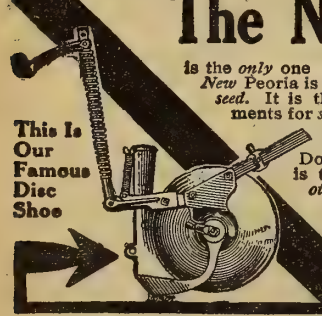
429 Locust Street, St. Louis, Mo.

The Only Drill With a Perfect Furrow Opener



Here's the drill that will greatly increase *your* crops and profits, just as it has done for hundreds of *other* progressive farmers. It is equipped with our wonderful DISC SHOE FURROW OPENER, the *only* one that combines *every* advantage of the *single disc* for cutting trash and penetrating hard ground, with every advantage of the *shoe*, for forming the furrow and depositing the grain. It's the only furrow opener that *packs* the seed bed after the *disc* has *opened* the furrow. The *shoe* carries the seed to the *bottom* of the *packed furrow*. Every seed counts. Every seed is sown at a proper, *even* depth. So *every stalk* comes up and ripens *evenly* and the grain *grades* up best. The shoe prevents any dirt from falling into the furrow until *after* the seed is deposited.

The New Peoria Drill—



is the *only* one equipped with this *Disc Shoe Furrow Opener*. So the *New* Peoria is the drill that is sure to *increase* your *crops* and *save* your *seed*. It is the drill that insures *every* seed the three *essential* requirements for *successfully* growing small grain—Heat, Air and Moisture. Even if you have a new drill of some other make, it will pay you well to discard it and buy a New Peoria. Do not think that the wonderful Disc Shoe Furrow Opener is the *only* advantage of the New Peoria Drill. Every *other* part is just as superior. Let us *prove* it. Let us send you a *booklet* and all the *facts* and *figures*, also opinions of *men who know*. Send your name and address on a postal *now*. It's worth money for you to know all the details.

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New Crop Iowa Grown Recleaned TESTED

and Inspected Red Clover. Also Mammoth, Alsike, Alfalfa and Sweet Clover of choicest quality.

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

SUCCESSFUL GRAPE CULTURE.

To the Editor of The Homestead:

Every farmer should grow grapes, at least enough for family use. And let this family supply be a large one for purely economical reasons. There is no fruit more universally loved and relished than the grape. For one meal a day it is very nearly a balanced ration. With the exception of the apple there is no fruit which goes so far in lowering the meat and other food bills for a family. Many people believe that they cannot be grown successfully in the rigid climate of Wisconsin, but the success which many of us have had proves this theory to be false. The most important thing in growing grapes in cold climates is the selection of varieties. There are several very good varieties which will prove a success in a cold climate if soil, cultivation and other things are as they should be.

Niagara is among the very best varieties, as it bears profusely hugh bunches of very large grapes. This grape has just a hint of the wild in its flavor, but not enough to spoil it, in my notion just enough to make it good. We do not, as a rule, get a correct idea of this grape from those upon the market, for they are seldom sufficiently ripened. For home use allow them to remain on the vine until dead ripe and note the difference. The Niagara is perhaps the most desirable grape for the farmer to grow, but it requires a fertile soil and good cultivation. In winter it needs a little protection easily given by detaching from its support and spreading upon the ground and covering with straw or leaves.

Moore's Early is a very good black grape which ripens very early, before there is danger of frost, and bears very heavily. This grape is capable of standing a great deal of neglect and is a very good grape for common culture.

Worden is an immense bearer and ripens the last of September before we have any hard frosts. There is no purpose to which grapes are put that the Worden will not successfully fill. If pruned and thinned it is a very large grape of superior quality. It has one objection, which is a thin, tender skin, which makes its shipping and keeping qualities poor. For home and immediate use it is an excellent grape. Aside from their other fine qualities the three above-mentioned varieties are especially desirable, because they are self-pollenizers. One fine point about the Worden is that it is sweet and delicious as soon as it turns black. The Concord is like the Worden in very many ways, but is sour for quite a while after turning black.

Brighton is a delicious red grape worthy to rank with the above, but it loses its rich flavor soon after ripening and lacks the power of self-pollenizing.

Herbert is a very hardy variety of black grapes. It is a late ripener, but its hardy characteristics usually enable the grapes to ripen without frost damage. Nectar is another black grape of high quality if it can be coaxed to live, but has a habit of dying when there is apparently no cause.

Other good grapes for this latitude are: Concord, Moore's Diamond, Lidley, Hayes and Delaware.

Taken as a whole, grapes are not very particular about soil and exposure, but do best on high, well-drained soil. They are good feeders, but this can be supplied by manure, ashes, lawn clippings and the like. Both spring and fall are good seasons for setting out vines. If done in the spring they should be set out as soon as the frost leaves the ground. Vines do best if planted eight feet apart each way and set deep, a little deeper even than they stood in the nursery. Roots should be trimmed until not more than seven or eight inches long. The main thing the first year is to make growth and get the vine well established. No pruning or nipping should be done. Many prefer to start with two-year-old vines, but to my notion one-year vines are just as good. I prefer to train the vines on a trellis

Hitch to a FOSSTON For Bigger Profits

The very best thing you can do now—today—if you want to raise *more* and *better* wheat, barley, oats, corn, rye, or any crop—is to write me a postal card or letter telling me to ship you—for 30 Days' Free Trial—at no expense to you for freight either way—no obligation to buy if not satisfied—this great

Fosston Automatic Combination Grain Cleaner and Corn Grader

The FOSSTON is perfectly built—simple and strong; has exclusive features; grades, cleans and separates grains accurately for the big crops that good grain produces. *Hitch to a FOSSTON!* Tie up with it now—for a 30-day free trial anyhow! Write today telling me to ship on these terms, or asking for Free Book giving complete information. Address

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From ground planted secured by use of The **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate, A simple, strong, durable machine. Write for **CATALOG,** price, etc.

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Best for windbreaks. Protect crops and stock. Keep house and barn warmer—save fuel—save feed. Hill's evergreens are hardy, nursery-grown—low priced. Get Hill's free illustrated evergreen book and list of Great Bargain Offers—from $4.50 up per Thousand. 56 years experience. World's largest growers. Write.

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Our hardy Sand Vetch will grow anywhere, regardless of heat, cold or drought. Especially good for sandy, dry land. Crops range from 6 to 10 tons per acre. Excellent feed for growing animals or milch cows; 25 per cent more valuable than **any other fertilizer.** Send for free catalog.

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Absolutely pure, free of weeds, vigorous hardy, northern grown, non-irrigated. The kind that will grow on your land. **Sold on approval. Get free samples** and cultural instructions; big seed catalog and wholesale price lists.

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of three wires in the form of a T. The fall is the best time for pruning, as the wounds are well healed by spring. It is best to remove at least half of the previous year's wood. Grapes should be thinned severely after the fruit forms, for if left to themselves they will overbear. When this is allowed the bunches do not develop to their best size and are late in ripening and do not ripen as well. If well cared for vines will be bearing full crops by the fall of the third year. Rot will give trouble unless hindered. To prevent, spray with a strong Bordeaux mixture. People who have but few vines and no spraying outfit sometimes prevent trouble from this source by enclosing each bunch with a sack. This also protects against loss by birds. These bags in order to be effective should be placed upon the bunches just after the vines are through blooming and the fruit is beginning to form. They will do no good if the spores of the rot fungi get upon the fruit before they are used.

No fruit will give any more satisfaction or better results for the trouble and money expended than grapes.

Wisconsin. C. J. Griffing.

MAKING HOTBEDS AND COLD FRAMES PROFITABLE.

To the Editor of The Homestead:

The use of hotbeds and cold frames in the market garden business is not in vogue as much as it deserves to be. The large market gardeners have all realized their value, however, and are using them very extensively, in many places.

However, there are large numbers of small growers who should develop this side of the industry to a much greater extent. With the hotbed one is able to start early tomatoes, cucumbers, melons, sweet potatoes, etc., which all come on early, thereby giving him the jump on his next-door rival who neglected to start his plants early enough. Some quick-growing crop, such as radishes and lettuce, can be grown to maturity early in the spring in hotbeds.

It is not the intent in this article to treat on the making of the hotbed. Most gardeners of any experience ought to know how to build a hotbed. I find that it pays to use good plank and eighteen to twenty inches is deep enough to make the beds. This depth allows for six-inch space between the ground and the sash for growth of the crops, three or four inches of soil and eight or nine inches of good manure for heating purposes if manure is used for that purpose.

One can be none too careful in choosing and preparing the manure for the bed. The use of the manure, of course, is to furnish heat from its fermentation with which to grow the crops. The manure should be a good horse manure, which is about one-third to one-half litter or straw and quite moist, yet not wet. The manure should be piled **up and worked over** every few days in order to get it uniform before putting it into the bed.

Here in southern Illinois we start our first hotbeds in the latter part of January or the first of February. At my farm it is planned to put in one or two beds each week, which allows for a succession of crops. Right here I might say that I do not like to have the beds longer than forty feet and prefer thirty feet, as it saves considerable time later in the season when it is necessary to take the sash completely off from the beds each day.

In putting the manure into the beds I find that it pays to spend a lot of time to thoroughly tramp it. A layer should be put in, tramped down, another layer put in, thoroughly tramped down, and so on until the desired amount is in the bed. Be sure to fill and tramp the corners thoroughly.

I leave the bed in this condition for twenty-four hours before putting in my rich soil, as the manure seems to start its fermentation better.

I leave the hotbed stand, after putting in the soil, for several days in order that the soil may get warmed through and that the rate of fermentation in the manure may become more uniform. Loosen the soil well before sowing any seeds. I use a 2x4, which is cut the right length for the hotbed, by which to space my rows. I find that for most plants four inches

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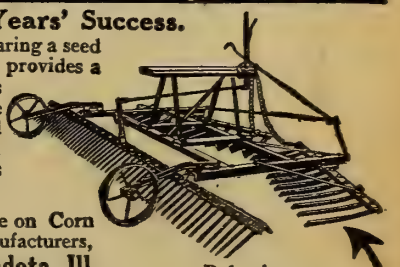

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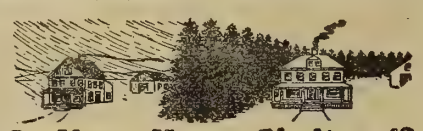

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apart is sufficient, as I thin pretty well in the rows.

I like to alternate rows of early beets and early cabbage, as the cabbage will come up and can be transplanted to cold frames before the beets are very large. The rows of beets will then be eight inches apart and will come along very nicely. Their first trimmings will furnish beet greenings which will always sell well and, as soon as the beets attain a size large enough to bunch I always find a ready market for them at ten cents per bunch with three in a bunch. This is of course very profitable as beets do not require very much care. Cabbage plants can be grown between lettuce plants in the same way fairly successfully. Early cabbage plants always bring a good price with me. I have often been able to sell quite a lot at $5 per 1,000, which certainly makes them very profitable.

Growing lettuce plants to sell as well as to set out into other hotbeds or cold frames is also remunerative.

I am having very good success with starting my tomatoes in hotbeds and then transplanting them into cold frames, as I have no greenhouse in which to start them. I have to be careful to let the soil get very warm, about ninety degrees, before putting in the seed. I do not plant the seed very deep and am careful to keep the bed rather warm and uniform in temperature, damp, but not wet, until the seed comes up. Care must be taken to transplant tomato plants before they get too large, otherwise the plants will be quite materially injured and set back.

I find that it pays to sprinkle a liberal application of bone meal upon the bed and work it into the top soil just before planting the seeds.

The water question, is, I guess, the question that most people are somewhat troubled with. I water my beds thoroughly and not too often. I always try to water before noon so that the stuff will have an opportunity to dry out some before evening.

The management of a hotbed must be governed by good common sense and practical experience. One can tell how he did it one spring, but local conditions and a different season would change these methods entirely for another season. A thermometer should be placed in the hotbed and it should be looked at rather often so that the heat can be kept from running too high during the day and the plants getting scalded as a result.

Ventilation by means of raising the sash should be carefully attended to as soon as the heat gets higher than it should be or when the moisture content of the enclosed air is heavy. Raise the sash on the upper side and continue raising it through the day as the sun becomes warmer. Start closing the sash the middle of the afternoon so as to hold some of the heat from the sun.

During the early part of the season the hotbed should be covered every night with mats made of burlap, rye-straw matting, or other material to help keep in the heat. Some of the colder days it will be found necessary to keep the mats on all day, even at the expense of the sunlight. Light wooden shutters are also put on my beds during the extremely cold weather.

As for profits they vary greatly with local conditions, ability of the man and the crops. It is almost impossible to figure the profits from a bed of early tomato plants, as they are transplanted from one bed to another.

I figure upon a profit of about $3 per sash or about $30 per bed of ten sashes. This is about what I usually average, I think.

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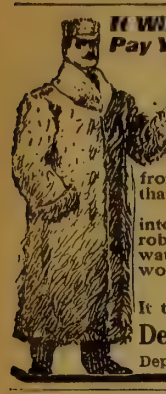

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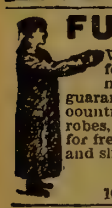

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To the Editor of The Homestead:

Sheep are perhaps the most easily wintered of any animals we keep upon the farm, as they require no pampering and do not need close confinement in warm, expensive sheds. A good roof is essential and the three closed sides should be tight enough to keep out cold, driving rains, snows and very cold winds. The south side may be left entirely open for about four feet from the ground. The cold does not matter so long as the shed is dry. In this locality all who use the cold fresh-air sheds have good luck with their sheep.

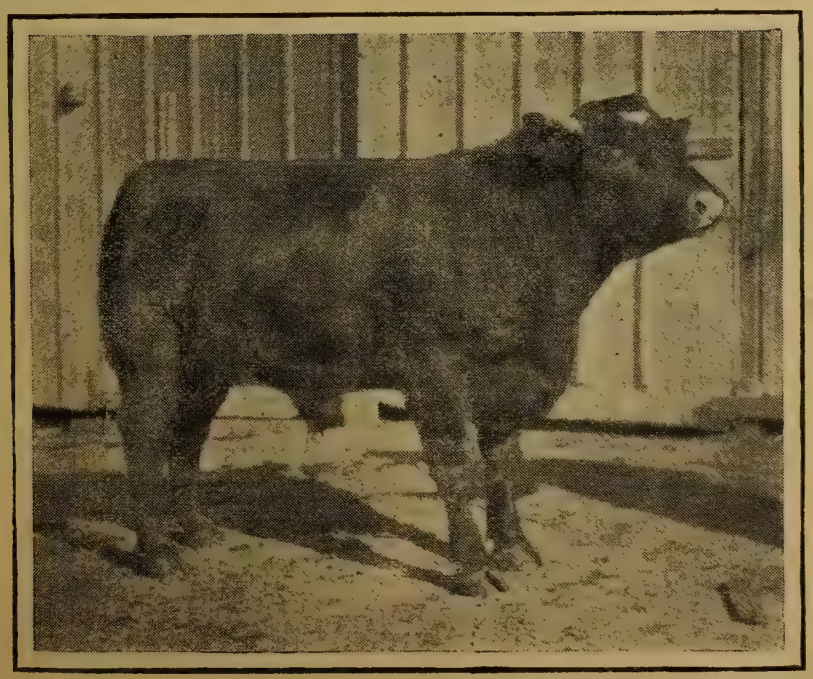
Sheep are dipped in summer and spring and ticks do not bother in winter, as the cold is unfavorable for their development. One man in our neighborhood attempted to winter his sheep in a warm stable and met with loss. Many of his sheep died and those which remained were very thin and run down at lambing time. Many of his lambs were weak and died soon after birth. Many came dead. The ticks were so bad on these sheep that he was forced to shear very early and before it is thought of by others in order to save his sheep. His object in using the warm stable was early lambs.

If early lambs are desired the ewes can be put into warm quarters at lambing time for a few days. Sheep should have free range and it is a fine thing if this can be in a brush field. Then they will pick much of their living and come out in the spring very fat and with a heavy fleece. Sheep should be kept within their sheds during cold rains and wet heavy snow storms. Moisture in the coat of fleece is very dangerous. Exposure to a cold rain is almost sure to cause catarrh. If sheep are not fed a little grain all winter and are fed up as lambing time approaches they will lose their wool badly. A little grain is best during the winter not only to keep the ewe in condition but to develop the unborn offspring. A variety of foods is not necessary as with other stock and it is well when one ration is established to stick to it. Clean hay and cornstalks make a good roughage and corn and oats with roots or ensilage daily make a good combination. Two pounds of grain daily is sufficient.

Again, plenty of exercise, with pure, cold air and ordinary feeding will produce the best of results in wintering sheep. Certainly there is no need of expensive outlays when simpler, cheaper construction will answer the purpose better. C. J. Griffing.

MARKING SHEEP.

The best and most satisfactory way of marking sheep, according to Frank Kleinheinz, shepherd of the Wisconsin College of Agriculture flocks, is by means of metal ear tags or labels. Each of these labels bears a number on one side and the breeder's initials on the other or if the breeder's name happens to be short, it is stamped on the label. Contrary to the suspicions of many flock masters, these labels do not disfigure the sheep in any way nor cause pain at any time. When properly attached to the ear by means of a suitable punch or pinchers, the labels are very seldom lost. If attached to the upper portion of the ear, the labels may be torn out by being caught in barb wire fences, etc. This difficulty, however, may be avoided by attaching the label to the lower side of the ear and fairly close to the head. To avoid bleeding, the hole for the label should be punched between the veins. Some sheepmen make the mistake of assuming that when these labels are used upon young lambs their ears are hung down throughout life on account of the excessive weight. This, however, is not the case, for at the Wisconsin Experiment Station all lambs are labeled the second day after born and Shepherd Kleinheinz has never had any difficulty from this source.



The great herd bull, Diamond Digger, at the head of the Short-horn herd owned by Chas. A. Siepicka, Tobias, Neb. See field note in this paper.

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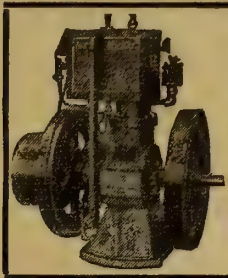

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

HANDLING DAIRY COWS.

To the Editor of The Homestead:

The dairy cow is the most highly specialized and most sensitive of all our farm animals. She has been selected, bred and developed especially with the view of securing high production. In her primitive state the cow gave milk sufficient to rear her calf. In addition to that she used up her energy in roaming the plains in search of food and drink and in fighting and fleeing from wild animals and in keeping herself warm in cold and stormy weather. Now in her great specialization we expect her largest and best energy and efforts to go to the production of milk. It is essential, then, that many of the external conditions which she met regularly in past ages and which usurped much of her energy and the components of the food which she ate shall be removed in modern farm and dairy conditions. The dairy cow has become a highly specialized, highly organized, nervous individual. Her nervous energy is directed toward the secretion of milk and not toward buffeting a furious storm or tramping forty miles for a drink of water. So far as man protects the cow from the conditions which she met in primitive times and furnishes conditions that are favorable does he succeed in furnishing proper care for his cows. In the early times the cow was of little use to man. Now she is his best servant and must be given due care and consideration in order that the best shall be gotten from her.

Among the factors to be considered in handling dairy cows for maximum production and maximum profit there is none greater than the man. Upon him depends everything. He can make or mar a cow's record. A short time ago the writer had the privilege of visiting one of the best producing practical farm herds in America. The man was found to be very well posted on dairy affairs and was a keen, open-minded, generous-hearted individual. When we went to the pasture every cow came up to be petted. Everyone of them seemed to have the most absolute confidence in their master. The cows were looked over carefully to see if any required special attention. The condition and supply of grass was noted and the flow of water and the tanks examined. The owner explained that it is through giving heed to small details that profit largely comes. Just as our great packing companies make their profit off the by-products so must a dairyman make his profit from giving all necessary attention to the smaller as well as to the larger features of care and management. Th re were thirty-five cows in that man's herd. All were in the advanced registry. All but two had been raised on the farm. Never had fancy prices been paid for high producers. Simply had consistent breeding and selection been successfully carried on until the average production of the herd was above 400 pounds of butter fat per cow and there were a number of two-year-old heifers included in that average.

That man was well-nigh an ideal dairyman. He had a distinct liking for the business and a love for good cows. He believed in dairying as a business that would pay. He believed and knew that dairy farming would improve the fertility of his farm. His carefully kept records showed the correctness of profit a yield of crops much higher than was produced on neighboring farms proved the increased fertility proposition. His careful study of each cow enabled him to meet her individual peculiarities and this we may say is another very big factor in successful management. No two cows are exactly alike in temperament, capacity and ability to produce. In a large herd individual differences are very marked. Where all the cows are treated, handled and fed in exactly the same manner a mistake is made. It will pay any man to study the individuality of his cows.

Quietness and freedom from excitement must be prominent among the watchwords on the dairy farm. The highly developed, nervous system that is so essential in a good milker

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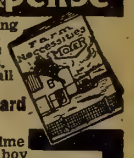

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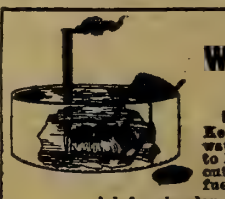

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is at the same time very sensitive to shocks of all kind. A dog is an abomination of the worst order where milk cows are kept. Two western dairymen had cows purchased for them from eastern herds. The entire lot was sent to their destination in one shipment and the cows were divided as equally and fairly to the two men as was possible to do. The two herds were placed under very similar conditions of farm, shelter and feed. After a time one herd was found to be producing very satisfactorily. The other was considerably lower. The owners and neighbors being rather inexperienced with real dairy cows were unable to locate the difficulty. Finally one who really knew cows was called by the man whose herd was doing poorly. The first time the cows were driven in from pasture the mystery was solved. A dog was used to drive the cows. He was one of the noisy, ferocious kind and the cows were in mortal fear whenever he was near. On the other farm there was no dog. It was recommended that the dog be disposed of and that was done. Following that the production of the herd increased and finally equalled the other herd.

Especially at milking time is quietness and comfort essential. On many dairy farms visitors are not allowed in the barn during milking time. There is justification for such a rule. The greater portion and the richest milk are secreted while the milking is being done. Naturally anything exciting or distracting will check the secretion for that milking. Kindliness is equally as valuable. A mild tone of voice and gentleness will pay big returns. The milking stool was never intended as a curry comb. Its use on the back or body of the cow will reduce the net income as surely as will a houseful of city visitors reduce the family larder.

The essential features of shelter must be provided or else the yield of milk will go up and down as often as does the barometer only the upward movement will never equal the successive drops. Those essentials may often be supplied cheaply if need be. They are protection from rain, especially cold rain and shelter from cold wind and storm. The writer has a friend whose shelter for his dairy herd is essentially a pen with a tight wall on the north, the west and the south. From each of those walls a tight roof extends toward the interior for a distance of sixteen or twenty feet. It is not expensive, yet it is absolutely protective against rain. It is perfectly free from drafts and sufficiently warm in times of cold weather. Of course, a real dairy barn has a great many advantages, but a genuine dairy cow will respond if the requirements mentioned above are met.

There is another condition that may be said to be as bad if not worse than exposure and that is overhousing. Many men, especially beginners in the dairy business, through a desire to be kind to their cows, house them too snugly. The cows are put into places that are overwarm and poorly ventilated. A neighbor to the man mentioned above who uses the open-shed method as described followed such a practice. His cows were stabled in a lean-to shed which had neither windows nor ventilation. All the cows breathed into the hay which filled the main part of the barn. Finally the herd was tested for tuberculosis. Nineteen out of the twenty were lost. That really horrible example was one factor that led to the open-shed method on the part of the first of the two men mentioned. Cows are not comfortable when too warm and are susceptible to all sorts of changes.

Along with shelter and inseparable from it are dryness and cleanliness. The location and size of the barn and yards have important bearing upon those two features. On cornbelt farms where there is an abundance or even an oversupply of straw no better use can be made of it than run it through the corn stalks and have manure made of it. Thus a double return is secured from being liberal with dry, clean bedding. The cow is made more comfortable and more manure is made available for the fields. More comfort means more milk. Also clean cows mean cleaner milk. In just the same sense bedding keeps the cows dry and makes them more comfortable. No high records were ever made where cleanliness

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ON account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a car load. All tuberculin tested and bred to registered bulls. Also a few registered bulls ready for service. ROCK BROOK FARM, STA. B, OMAHA, NEB.

BULLS READY for SERVICE From YEAR RECORD COWS

PAULINE QUEEN JOHANNA has just finished a year record of 1,024 lbs. of butter from 25,660 lbs. of milk. Her yearling bull and other bulls of this class on hand and for sale. Also some fine young cows. Write us for information; also let us know your wants.

CHICAGO STOCK FARM,
R. B. YOUNG, Prop., Buffalo Center, Iowa.

40 BULLS 40

PURE-BRED registered Holstein bull calves, from 1 to 12 months old. An extra choice lot, most of them sired by our great herd bulls, and many of them out of high record cows. Our prices are bedrock. We are short of room and must sell at least 20 of them in the near future. Send for price list.

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OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

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And choice Heifers and Bulls for sale. Any one wishing a few choice registered cows, heifers or bulls can make their own selection from a herd at C. B. McCanna's Edgwood Stock Farm, Burlington, Wis. All tuberculin tested by State Veterinarian. C. B. McCANNA, Proprietor, Burlington, Wisconsin.

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will **produce more** and **eat less** feed than any other cow.

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The American Guernsey Cattle Club,
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MAY King and Glenwood families. 38 advanced register cows. All mature cows in the A. R. Largest herd of registered Guernseys in Illinois. Bull calves and a few heifers for sale. Send for catalog. T. W. BROPHY, Proprietor, 81 E. Madison Street, Chicago, Illinois.

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WE now offer 30 head of registered females and 8 May Rose bulls, 5 of them ready for service.
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AYRSHIRE CATTLE.

AYRSHIRE Cattle for sale. Bred for good dairy results. Breeders and Shippers. Prices reasonable. F. TSCHUDY & SONS, Monroe, Wis.

and dryness were not very closely observed. Filth breeds disease germs and discomfort for the cows. Filthy conditions are almost synonymous with low returns and lack of profit.

The dairy cow needs plenty of good water. In ages past when the cow produced milk only to rear a calf perhaps one drink per day even of water that was foul or icy was sufficient. Nowadays when she is producing enough milk as several calves could take, the water supply must be different. Many dairymen furnish pure fresh water in the barn. There in comfort the cow may drink all she cares for and with some arrangements whenever she cares for it. The watering place ought by all means to be in some protected place. The cow will not drink as much as her system needs, if she is forced to stand in a cold freezing place and drink ice water. A tank heater will no doubt pay better on a dairy farm than on any other, for the reason just mentioned. Then if the water is icy when taken into her body, it must be warmed from heat made from the high priced feeds which she has eaten. Hay and grain are worth about $20 per ton as feed. Much cheaper fuel can be used in the tank heater. A long trip to the watering place is detrimental. It requires that energy that the cow should be using in digestion and milk secretion. Merely to carry on those two functions makes the dairy cow the hardest working animal on the farm.

What is said above will apply equally as well to feeding. The cow that roams through the greater part of the day in search of feed will use up much of the energy she obtains from the food that she gets in that same roaming. The feed rack if outside should be in a protected place where the cows can eat in comfort and all that they may care for. For best results the quality must be good. They will eat more of the appetizing hay and digest it more thoroughly. The practice of some dairymen who allow their cows to pick over alfalfa and leave the coarse stems and then to feed those rejected stems to the horses is a good one for the cows. A cow can no more manufacture milk without plenty of good feed than can a woolen mill manufacture cloth without raw goods. It pays to feed good cows and to feed them liberally.

H. E. McCartney.

Iowa Draft Horse Breeders' Association.

THE fact that Iowa stands first in importance of its draft horse industry above all other states of the Union was brought out at the meeting of the Iowa Draft Horse Breeders' Association held at Ames last week as one of the important meetings of the short course. The meeting was opened by a talk on the subject of "The Value of Colt Shows," made by Pres. G. W. Grigsby, of Madrid, Iowa. In his remarks, Mr. Grigsby presented some of the many advantages which were the outgrowth of the colt shows held in his town annually for the past eight years. These were that interest had been stimulated and pride brought about in better horses so that colts were better cared for, better sires used and the community improved through the fact that buyers of the better class of draft horses were attracted to the section in which the shows were held, to the financial profit of the farmers who took advantage of their opportunities. He believed that the colt show appealed to a large number of people. In his community the betterment in the class of sires in use now over those at the time when the colt show was first established was more than doubled. He believed that eight or ten colt shows in any county would make a wonderful improvement in the draft horse business of that county.

Wayne Dinsmore, secretary of the American Percheron Association, presented an extended paper dealing with the four market classes of horses. These were the drafters, the carriage horses, the roadsters and the saddlers. The majority of his attention was devoted to the drafter, which he described as a horse weighing 1,600 pounds or over and adapted to the heavy work of the city. As an encouragement to draft horse breeders, he stated that the demand now is as strong as it has been in twenty years and that prices in the city for good horses reached an average of $350 each. The country has been scoured for good ones until very few remain and the prospects for the demand are as good as ever. The carriage horse, weighing from 1,100 to 1,150 pounds, he said did not belong to the utility class and the demand had decreased to such an extent that really the carriage horse business could not be considered as more than a mere incident. Roadsters, meaning light animals weighing 1,050 to 1,150, with a capacity to get over the ground quickly, had also suffered seriously through the influence of automobiles. Saddlers, including 1,050 pound horses, were not in the utility class and the demand was small. He concluded that the horse business was bound up in draft horse raising and that the profits of farmers must come from that source. He took up to a considerable extent the claim sometimes advanced that auto trucks in the cities would eventually drive the draft horse out of business. From inquiry he had learned that for short hauls of three miles or less the horse was more economical than the auto truck and as the great majority of hauls were within this limit there was little chance of the horse being displaced.

Wm. Crownover, of Hudson, Iowa, presented some excellent thoughts on the subject of feeding draft colts. He said that it paid to feed and to fit colts, that feed was as important as breed, and that the colts should be fed from the start. He favored the use of cane as a feed for brood mares and colts. He would discourage the practice of working mares with young colts as the colt which was obliged to follow its dam through the field at working time would not have a fair chance, and if left in the barn the infrequency of nourishment would give it a setback hard to overcome. The first four weeks in a colt's life is a critical period. The colt will begin to eat oats at three weeks of age. Oats and pasture should be provided liberally in summer and in winter, clover hay, oats and sugar cane are equally important.

The ailments of the horse were treated at some length by Dr. Kline, of the college. He took up the matter of sanitation, purity of water, ventilation and disinfection, giving a list of the chief ailments of horses and some of the more common methods of treating them.

An interesting diversion from the program as connected with the horse breeders' meeting was the practical instruction in horse judging given in the short course classes. Veterinarians and college instructors put in the entire day at this work and it may be said, tore the horse all to pieces, illustrated his defects, brought out his strong points and gave a large volume of really important information which would benefit any farmer and increase the profits of his horse raising business.

A very live portion of the program was taken up in the discussion of the Iowa stallion law. This discussion was largely made by owners and importers of stallions. None of them were satisfied with the law and, from the arguments presented, farmers had not been benefited by it. It was freely stated that in most of the states having stallion laws there had been a lowering of the standard of horses employed and a general damaging of the business. The argument was presented that the annual examinations insisted upon were an injustice to stallion owners and that as a result of the uncertainties men could not be prevailed upon to invest good money in animals which might be disqualified from service at any annual examination. Senator Ames, who presented and secured the passage of the Iowa law at the last session of the legislature, defended it loudly and believed that it answered most of the purposes. However, the general sentiment of those who entered into the discussion was that the law should be amended at several points. A committee was appointed who reported an amendment providing that ringbone be added to those diseases or affections that disqualify a stallion. The amendment also provided for taking bone spavin out of the disqualifying paragraph and changing it to that of unsoundness. The recommendation was also made that certificates be issued only on the report of veterinarians and not on the owner's statement, as may be done under the law as it now stands. An amendment also was proposed that if a horse has successfully passed two consecutive examinations at six years old he shall be given a life certificate for soundness and no further examinations made. A legislative committee, appointed at the fall meeting, made no report. A committee was appointed on enforcement of the law, the object being to bring to the attention of the county attorney or prosecuting officer the owners of grade stallions who pay no attention whatever to the law.

Secretary Corey, of the Iowa State Fair, read a paper giving some of the features brought out by the present stallion law. He found that certificates had been issued for 5,679 pure-bred stallions and for 2,493 grade stallions. Sixty-eight animals had been disqualified and certificates refused them. Two thousand eight hundred and thirty certificates had been issued on the affidavits of owners and 5,915 on a veterinarian's report. Seventy per cent o fthe animals to which certificates had been issued were pure bred. Of these 2,716 were Percherons, 766 Belgians, 485 Shires, 464 French drafts and 421 Clydesdales.

The manure spreader may seem expensive, but it is not. True, it is a costly piece of machinery, but with proper care in operation, and protection from the elements when not in actual use, it will last practically a life-time. Then, when we consider how much more work it will do than can be done by hand; how evenly it distributes the fertilizers; how quickly the soil responds to its beneficial effect; adding to these virtues the time, labor and expense it saves, what could the farmer pay for one, and still realize an enormous profit above its cost and operation.

Put away a little fuel in a dry, sheltered place one of these mild days. It will look mighty good when a blustery day of snow or sleet strikes you.

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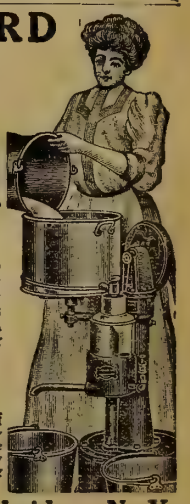

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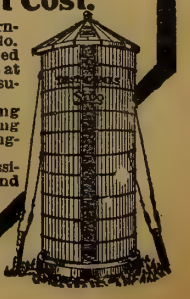
Creosote dipping adds, according to Government reports, 17 to 20 years of life to the Silo. That is the reason the Des Moines Silo is dipped in creosote. A special dipping plant was built at great cost to add this feature to the already superior construction of the Des Moines Silo.

The creosote penetrates into the wood covering every check and going deep—making the wood absolutely impervious to moisture, thus preventing rot and in a large measure overcoming the shrinkage and swelling due to changing atmospheric condition. It is never necessary to paint the Des Moines.

Des Moines Silos are equipped with spring lugs that overcome the last possibility of the hoops becoming loose. The Des Moines Triple Anchor System and three inside hoops are the best in the world. Positive insurance against damage by wind. Other buildings may go but the Des Moines Silo will stand.

The story of the Des Moines Silo is told in a book that will be sent free.



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507 New York Avenue Des Moines, Iowa.

POINTS ABOUT PRUNING.

To the Editor of The Homestead:

Many an orchard is left to grow watersprouts and limbs for years without a pruning. Such an orchard becomes practically useless and a disgrace to the farm. If a farmer has such an orchard he should begin pruning it at once. It should be pruned gradually so that the wounds may have a chance to heal without killing the tree.

May is the best time of the year to prune an orchard, but some farmers are so busy at that season they neglect pruning and often leave it until winter. Winter pruning should be done carefully, sawing off the side branches close to the main branch so they will heal rapidly next season. When pruned in winter numerous watersprouts will put out early next spring, and these must be taken away. When they first appear they can be easily rubbed off with a gloved hand. If left for a week or so a sharp knife or saw will be necessary to sever them.

Careful pruning is necessary for several reasons. The tree bears younger and a more abundant harvest of apples. The air and sunshine get among the branches, preventing fungous growths and disease. Then the sunlight and air get into the buds, causing them to produce more delicious and highly colored fruit. And all know that well-colored fruit brings the best prices.

I think it is best to begin pruning when orchard is about two years old. The pruning will be light and quickly done, and the pruning from year to year will be easily done. The orchard will never need a heavy pruning. Then in a short time there will be a fine orchard of healthy, symmetrical trees that pay for their keep by their abundant harvest of apples.

When branches over a half inch thick are cut away it will be best to paint the wound to keep it from drying and cracking. White lead mixed with grafting wax and thinned down until it can be applied with a paint brush is about the best I have discovered for wounds. One application of this mixture will last until wound heals.

But one should ever remember that pruning is only one step toward a crop of fancy apples. The trees must be sprayed in season, fertilized and cultivated every year. When these things have been faithfully done the farmer has performed his part, and he must leave his crop in the hands of Nature, whose laws are in the hand of a higher Power that sends the harvest for the just and the unjust.

Subscriber.

WATERING AND GIVING THE COW EXERCISE.

To the Editor of The Homestead:

For years I had the impression that a cow must be allowed in the barnyard at least an hour or more a day to do her best and keep healthy. Also, if the weather was of an extreme nature, that she should be kept in and watered inside. Close observation has taught me that a cow wants the same deal every day and should be watered the one way, either inside or outside. If cows are used to being turned out they will frequently refuse water when given them in the barn and they will also chafe and get very uneasy when not let out at their regular time. I have learned by close observation covering a long period, that cows give decidedly more milk when watered inside, if the barn is kept clean and comfortable. When I say comfortable, I mean warm and well ventilated and the cows confined in a manner that is not tiresome. With a good, dry, soft bed and plenty of room and freedom so they can change their position and lick themselves when they so desire, a cow is comfortable providing she gets plenty of good feed and drink with plenty of sunlight. Comfort and good feed is what they want and what makes them yield up.

When it comes to the matter of exercise, a cow that is giving a good mess of milk does not have a disposition to move about much when she is turned out in the yard. This is particularly true when the weather is cold. I have watched them by the hour and find that they seldom go farther than the tank unless there be something to entice them away. On the contrary they will seek the most sheltered spots in the yard and stand humped up until it is time to go back into the barn. Cows that are dry and in calf, and younger animals, need and will take more exercise.

Young heifers that are to become the future dairy cows on the farm will be all the better for daily exercise, in being compelled to rustle. On the other hand, if cows are kept in ill ventilated barns where cow comfort has never been studied, and closely confined in rigid stanchions, a barn where sunlight is unknown, it is better to let them outside. Outdoor freedom is better than indoor suffering and discomfort.

R. B. R.

IOWA STATE DRAINAGE MEETING.

The 1913 annual meeting of the Iowa State Drainage Association will be held in Fort Dodge, February 18th and 19th, with headquarters at Wahkonsa Hotel.

This meeting will be of very special interest to all men interested in drainage, especially to those who have problems from the standpoint of the engineer and land-owner. Speakers at this convention are noted men in the drainage world, and men who are coming to the Association with enthusiasm and a great deal of important data. Citizens of Fort Dodge are planning to make this meeting a great success, and have arranged to banquet all members of the Association on Tuesday evening, February 18th.

The program for the Fort Dodge meeting cannot fail to prove of interest. The officers of the Association believe that every address will contain something that is absolutely worth while. There are hundreds of drainage engineers, farmers and business men in the state who will be particularly interested in the talks on the practical problem which are encountered in reclaiming the wet lands of Iowa.

Further information regarding the meeting, including a list of the speakers and their subjects, will be announced within a few days by Professor W. H. Stevenson, secretary, Ames, Iowa.

IOWA ABERDEEN ANGUS BREEDERS' MEETING.

The annual meeting of the Iowa State Aberdeen Angus Breeders' Association will be held in Des Moines, February 6th and 7th. Secretary Silas Igo and President J. V. Arney have spent considerable time in working out an interesting program and while it is not yet complete we can assure our readers at this time that this will be one of the most important meetings ever held by this association. It is the purpose to take up the question of beef raising in a systematic order beginning with the care of the cow, following this by discussing best methods for raising the calf, this to be continued by assigning to an expert the finishing of steers and to another expert the care and disposal of the carcass from the butcher to consumer.

Among those who have already consented to give addresses at this meeting are Charles Escher, Jr., E. T. Davis, H. J. Hess, A. C. Binnie, Sears McHenry and O. V. Battles.

The Homestead will publish the full program in next week's issue. If there are those who desire further information in regard to the program and particularly if any of our readers desire to present a matter for discussion at this meeting we would suggest that communication be established with the secretary, Silas Igo, Indianola, Iowa.

NEWS OF THE SALE RING.

F. Bieth & Son's Sale.

Owing to the quality of the offering and excellent breeding many of them being bred like the champions barrows at Chicago and bred to their first-prize under-year boar, Prince A's Col., Messrs. Bieth enjoyed good patronage. The entire lot was sold by Colonel Reppert in a short time, the sale being snappy throughout. Forty head averaged $56 and this must be remembered among the good sales of the year. Below is a list of buyers and prices:

1.	L. E. Thomas, Golden, Ill.	$ 66.00
2.	E. H. Deal, Elwood, Ill.	40.00
3.	Ed Barnhardt, Big Rock, Ill.	37.00
4.	Nevins & Son, Modesto, Ill.	38.00
5.	Finch Bros., Joliet, Ill.	50.00
6.	Finch Bros.	40.00
7.	G. H. Francis, New Lenox, Ill.	42.00
8.	Menaugh Bros., Gardner, Ill.	75.00
9.	H. E. Busch, Elwood, Ill.	41.00
10.	H. L. & R. C. Sharpe, Wasco, Ill.	40.00
11.	John Morton, Elwood, Ill.	40.00
12.	W. A. Bollman, Grass Lake, Mich.	29.00
13.	Fred Swan, Missouri Valley, Iowa	75.00
15.	J. W. Storm, Seville, Ohio	62.50
16.	Connell & Son, Joliet, Ill.	77.50
17.	Tom Smith, Scanlan, Ill.	68.00
18.	Lew Mooney, Mazon, Ill.	40.00
19.	G. A. Peterson, Morris, Ill.	48.00
20.	Finch Bros., Joliet, Ill.	43.00
21.	Wm. Harding & Son, Brimfield, Ill.	66.00
22.	Smith & Rodgers, Springfield, Ohio	116.00
23.	Menaugh Bros.	43.00
24.	Ed Barnhardt	65.00
25.	F. D. Thorpe, Rochelle, Ill.	51.00
26.	Geo. Sodders, Big Rock, Ill.	65.00
27.	Fred Schweitzer, Ellwood, Ill.	36.00
28.	W. E. Matterson, Morris, Ill.	57.00
29.	H. L. & R. C. Sharpe	40.00
30.	Menaugh Bros.	96.00
31.	G. H. Francis, New Lenox, Ill.	43.00
32.	T. A. Stephens, Chicago, Ill.	62.00
33.	W. W. Porter, Syracuse, N. Y.	41.00
34.	Finch Bros.	40.00
35.	E. W. Matterson, Morris, Ill.	48.00
36.	O. S. Larson, Logan, Iowa	150.00
37.	Morton Deal, New Lenox, Ill.	36.00
38.	T. A. Stephens, Chicago, Ill.	50.00
39.	Michel Drouden, Plainfield, Ill.	40.00
40.	W. E. Matterson	51.00
41.	Connell & Son, Joliet, Ill.	105.00
42.	T. A. Stephens	37.00

Smith & Rogers' Duroc Sale.

On Saturday, January 4, 1912, Smith & Rogers, Springfield, Ohio, held a most successful Duroc sale. The top was No. 6, the great sow, Lucy Superba, selling for $500 to J. W. Storm, Seville, Ohio. Mr. Storm also bought an unfarrowed pig choice 1913 litter by Volunteer, dam the grand champion sow, Mc's Dream, that Smith & Rogers recently purchased in the Browning sale for $700. Colonels Igleheart, Reppert and Irwin (after a big feast prepared by the firm and their wives) did a good piece of work in selling. Below is a list of prices and buyers:

1.	F. Bieth & Son, Joliet, Ill.	$ 81.00
2.	R. A. Elder, Springfield, Ohio	60.00
3.	S. H. Harmon, Bloomsburg, Pa.	122.00
4.	Bob Ewing, New Hampshire, Ohio	58.00
5.	E. S. Mayes, Springfield, Ky.	105.00
6.	J. W. Storm, Seville, Ohio	500.00
7.	J. S. Petrey & Son, West Mansfield, Ohio	107.00
8.	L. E. Houper, Garrett, Ind.	57.00
9.	Bollman & Moller, Covington, Ohio	55.00
10.	J. W. Storm	105.00
11.	R. C. Walt, Cedarville, Ohio.	59.00
12.	Ross Runyan, Vienna, Ohio.	40.00
13.	J. R. Hanes, London, Ohio.	42.50
14.	F. O. Ford, Greentown, Ind.	50.00
15.	F. J. Rupert, Spencerville, O.	53.00
16.	R. O. Huggins, Mt. Orab, O.	49 00
17.	B. F. Dunn, Beattytown, O.	242.00
18.	Chas. Elder, Selma, Ohio	41.00
19.	Lord & Son, Greentown, Ind.	114.00
20.	Prof. W. A. Thompson, Columbus, Ohio	43.00
21.	R. C. Huggins, Mt. Orab, O.	39.00
22.	Chas. Elder	35.00
23.	Clark Crebill, Springfield, O.	55.00
24.	J. W. Storm	91.00
25.	F. J. Rupert, Spencerville, Ohio	85.00
26.	F. J. Rupert	85.00
27.	Chas. Elder	45.00
28.	S. E. Bernard, Springfield, O.	35.00
31.	Prof. W. A. Thompson	39.00
32.	Chas. Elder	40.00
33.	F. E. Vernon, Springfield, O.	35.00
35.	Jess W. Andrews, West Point, Ind.	41.00
36.	Ross Runyan	50.00
37.	Christman & Mattock Bros., New Paris, Ohio	92.00
38.	Lord & Son	43.00
39.	Robt. Clark, South Charleston, Ohio	42.50
40.	Dr. Herr & Miller, Elida, O.	56.00
41.	Arthur L. Harper, London, O.	50.00
43.	Lord & Son	51.00
44.	J. C. McLaughlin & Co., Pleasantville, Ohio	137.00
45.	J. W. Storm	93.00
	Extra gilt to be farowed by Volunteer, out of Mc's Dream, the $700 grand champion sow; J. W. Storm	327.50
55.	Christman & Mattock Bros.	205.00
56.	Lord & Son	50.00
57.	L. E. Houser, Garrett, Ind.	96.00
58.	L. E. Houser	107.00

Fifty-two head sold for an average of $83.

Ben M. Bell Makes Good Sale.

The sale of Poland China bred sows at Beattie, Kan., January 9th, held by that well-known breeder, Ben M. Bell, was one of the most successful ever held by him. Although the weather was very cold and the roads badly drifted from the recent snow, interfering greatly with the attendance, especially from a distance, the entire offering cataloged, totaling sixty-two head, was disposed of at good prices, the total of the sale amounting to $2,584. The top of the sale was $75, J. T. R. Nash, Minden, Neb., paying this sum for a two-year-old Bell Metal sow bred to Bell's Long King. La Colossa Bell 1st and La Colossa Bell 2d, two splendid daughters of the Nebraska champion, Colossus, went to A. B. Garrison, Summerfield, Kan., the price being $70 in each instance. Although there were no high prices recorded, the prices were very even, considering the size of the offering. Col. H. S. Duncan did the selling. Below is given a partial list of the sales:

1.	Joe Burnside, Beattie, Kan.	$40.00
4.	Coleman Bros., Ithica, Neb.	50.00
7.	H. L. Harry, Beattie, Kan.	40.00
8.	L. C. Walbridge, Russell, Kan.	40 00
12.	Jack Nave, Kansas City, Mo.	42.50
14.	L. C. Walbridge	39.00
19.	W. B. Hawk, Beattie, Kan.	39 00
24.	J. T. R. Nash, Minden, Neb.	40.00
25.	J. T. R. Nash	50.00
28.	J. F. Menehan, Summerfield, Kan.	50.00
30.	W. B. Hawk	40.00
32.	E. E. Meelen, Clay Center, Kan.	47.50
33.	E. E. Meelen	45.00
40.	W. F. Fulton, Waterville, Kan.	48.00
42.	H. F. Detweiler, Axtell, Kan.	41.00
46.	J. T. R. Nash	75.00
51.	A. B. Garrison, Summerfield, Kan.	70.00
52.	A. B. Garrison	70.00

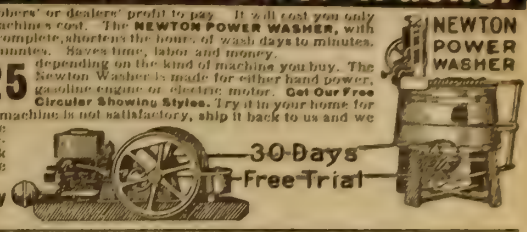
CHANGES IN TRAIN SERVICE

To conform with operating conditions during the winter months, several minor changes in train schedules became effective Sunday, January 5, 1913. For full particulars apply to ticket agents, Chicago and North Western Ry.—Adv.

The World's Greatest Power Washer

Direct from Our Factory to You. No jobbers' or dealers' profit to pay. It will cost you only a little more than half of what inferior machines cost. The NEWTON POWER WASHER, with reversible five-year guaranteed wringer complete, shortens the hours of wash days to minutes. Dirtiest clothes washed in six to fifteen minutes. Saves time, labor and money, depending on the kind of machine you buy. The Newton Washer is made for either hand power, gasoline engine or electric motor. Get Our Free Circular Showing Styles. Try it in your home for thirty days, you to be sole judge. If the machine is not satisfactory, ship it back to us and we will pay the freight both ways and give your money back with six per cent interest. A postal from you will bring quick proof to you of our reliability and our free circular.

Save $3.50 to $25



Newton Washing Machine Company
Newton, Iowa.

A Pair of $3 Gloves FREE

You can share profits with me this winter. Every one of my friends will get absolutely free a pair of fur gauntlet gloves or mittens (just as you prefer) with each horse, cow, steer or bull hide which we tan and make into a coat or robe—workmanship guaranteed. Send for prices and our valuable booklet, which has a large amount of information on how to select and care for hides, how to choose the best hides for fine coats, how to ship hides, etc. Write today. Address

H. B. Mickle, Pres.,
H. B. Mickle Fur Coat & Robe Co.
531 West 7th St., Mason City, Iowa.

Shirley President Suspenders
Guarantee on each pair

THEY'RE *SO* COMFORTABLE

Just the suspenders you've been wanting—because **Shirley President Suspenders** move freely—won't pull on your shoulders, and don't strain. Millions of men have proved it—why don't *you?*

Wear a pair for a month. If you don't like them, we will buy them back at price you paid.

Made in Light and Medium weights. Extra lengths for tall men. Each pair guaranteed.

PRICE 50 CENTS EVERYWHERE

THE C. A. EDGARTON MFG. CO.,
Shirley Guaranteed Suspenders,
9 Main St., Shirley, Mass.

WRITE

Send me a postal *right now*. I want to send you the most remarkable World's Championship facts ever published—show you how to get into the prize-winning class, how to make *more money* at least expense. I'll quote you my sensational direct-from-factory price on the 6-time winner—the

World's Champion Belle City

—Less Than Losers Cost

I want to tell you how Belle City won in 10,000 hatch-contests *year after year*—facts about the winners, how they did it and *how you can do it.* I'll give you 1, 2 or 3 months home test, 10 year guarantee, freight prepaid offer and my low price proposition. I'll send you all this information free if you just write me a postal *now* for World's Champion hatching facts.—JIM ROHAN, Pres.

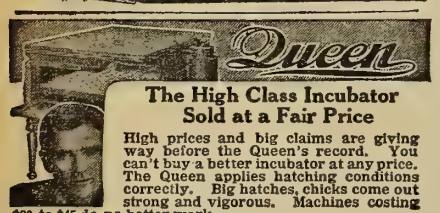
We ship quick from St. Paul, Buffalo, Kansas City or Racine.

Belle City Incubator Co., Box 52 Racine, Wis.

$7.35 FOR BIG 155 EGG INCUBATOR

Biggest guaranteed incubator at price—155 egg capacity. *Has hundreds of dead air cells*—only incubator with this special construction—well made—cold rolled copper tank, hot water heat, double disc regulator, deep nursery, high legs, double doors, egg tester, safety lamp. Special price $7.35. Incubator and Brooder together $9.85. Frt. pd. E. of Rockies. Order direct from this ad (money back if dissatisfied) or send today for our interesting big free book.

PROGRESSIVE INCUBATOR CO.
Box 127 Racine, Wis



The High Class Incubator Sold at a Fair Price

High prices and big claims are giving way before the Queen's record. You can't buy a better incubator at any price. The Queen applies hatching conditions correctly. Big hatches, chicks come out strong and vigorous. Machines costing $20 to $45 do no better work.

Save $10 to $12

Let me send you my Poultry Guide and Catalog to show you the 28 Special Queen Points—reasons why it's the best incubator that can be built. Built to last 25 years and sold on a money-back guarantee. Write any National Bank in Lincoln about my standing or dealings. Distributing houses in extreme East and West mean quick deliveries. Book free. Address

P. M. WICKSTRUM, Incubator Man
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RAYO HATCHES ON A GALLON

Rayo Incubator

See whole interior thru double-double glass top. Tank holds month's supply.

One Filling to a Hatch

Regulator adjustable to thousandth of a degree, acts on flame; double heating system uses all the heat—none escapes, none wasted—hatches on one gallon. Automatic ventilation. Egg turning semi-automatic. Roomy nursery, thick wood case, enameled mahogany steel covering. Anyone can use it. Big hatches certain and cheap. Low direct prices. Send for Catalogue No. 11

Rayo Incubator Co.

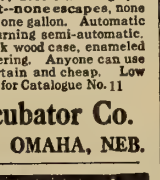
922 South 13th St. OMAHA, NEB.

99 CHICKS FROM 100 EGGS

$39.60 profits from $2.50 worth of eggs! That's the record of one of our customers. Hundreds of men, women and children coining money from the

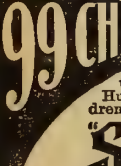
"SIMPLICITY" COMBINED HATCHER & BROODER

All metal. Sanitary. Economical. Nothing to get out of order. Averages better than 85 per cent. hatches. 50 and 100 egg sizes. Fully guaranteed. To start you we will lend you a Simplicity for your first setting. Try it. Count your chicks. Send it back if you are not delighted with it. Failure impossible. Experience not necessary. Write today.



Indianapolis Corrugating Co.
105 K. St., Indianapolis, Ind.

SHOEMAKER'S BOOK on **POULTRY**



and Almanac for 1913 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c.

C. C. SHOEMAKER, Box 886 Freeport, Ill.

Latest Book "Profitable Poultry," 128 pages practical facts, 188 beautiful pictures. Latest improved methods to raise poultry. All about world's famous Runner Ducks, 52 other varieties pure-bred poultry. This Book, lowest prices, fowls, eggs, incubators, etc., only 5 cents.

BERRY'S POULTRY FARM, Box 49, Clarinda, Iowa

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

SETTING NEW POULTRY STAKES.

To the Editor of The Homestead:

On our farm we have practically doubled our capacity in the past year. We have fully as many again hens as we had a year ago and our buildings have been correspondingly increased. Just now we are looking forward to the hatching season of the new year. It is not too early to do this. One of the greatest mistakes that can possibly be made in the poultry business is to let things drift along as they will and then when it comes time to set eggs for the new chicks, or to put them into the incubators, run out, grab up any and every egg that comes handy and get it started toward hatching. That is the way to be sure of having just an average lot of chicks; and average chicks are not what any of us should be satisfied with. We ought to reach up for something better.

So now is the time to get the breeding stock in line for the coming season's work. Where the hens are too thick in the houses room should be given the birds which are to lay the eggs for hatching. That implies that a lot of inferior birds should be taken out of the way. Every hen that is old or in any way below par ought to be put in a house by herself, leaving only the best and the most choice hens for breeding purposes.

Then, too, a similar course of selection should be set on foot for the best roosters. No inferior male bird should ever be permitted to project himself into the future by the process of mating. The very nicest, most thrifty and vigorous birds, and these only, should be used to head the different flocks.

Then, too, only a few hens should be given a male bird. Twelve to fifteen, according to the kind of fowls we have are enough. To mate more would be to invite infertile eggs. That we cannot stand. The matter of the houses is also important. They should be clean and light so that the birds may be happy all the time. You will find that your best and most fertile eggs come from birds that are happy, well fed and regularly exercised. I must not stop without a word as to feed. For the best results the feed should be the best and purest possible, given in liberal quantity and varied often. Hens that have such feed are far more likely to give us the finest eggs possible, and so to insure a good hatch a little later; and upon the hatch depends practically everything.

E. L. Vincent.

County Agricultural Adviser.

IN ALL the program of last week's exercises at the short course at Ames no feature was more interesting than the talk of Prof. S. M. Jordan, of Missouri, in which he elucidated the plans which have made the Pettis County Farm Bureau famous as the pioneer in the introduction of a farm adviser or expert. In his introduction of Mr. Jordan, Professor Curtiss stated that congress had increased the appropriation of $160,000 to be used for paying salaries of county advisers, under certain conditions, which were easily taken advantage of by any county which wished to do so. He referred to Pettis county, Mo., as having taken the initiative in this respect and mentioned the fact that several counties in Iowa had followed. He thought that in all probability ten or twelve other counties would next year introduce county agricultural advisers. The cost is borne in part by the college and the remainder must be provided for by farm or local organizations perfected for that purpose.

Professor Jordan is an entertaining talker, both in manner and in subject of discourse. He jumped right into the middle of his subject and explained the origin of the Pettis County Farm Bureau. It seems that the bureau was really the result of an impulsive action growing out of an interesting farmers' institutes held at Sedalia. Readers of this paper have been fully advised on this subject, however, and for that reason we omit the details. Professor Jordan explained that he had spent his life in the study of soil, forage crops and corn. Having been a successful farmer and teacher, with an aptitude in turning his experience to account, he became at once a powerful factor in the forwarding of agricultural interests. In his work at the head of the bureau with which he is now connected, he proved the value of the experiment in the matter of alfalfa culture alone. In his search for reasons why alfalfa was not successfully grown in Pettis county, he made 300 soil tests and, with a single exception, these tests showed that the soil was sour or with an acid condition which was fatal to alfalfa growing. Having once determined the cause for failure, it was an easy matter to provide the remedy, which was the application of limestone.

A feature of his work which was of intense value to farmers was the means taken to protect farmers and prevent them from using foul or adulterated seeds. The immediate need of this protection presented itself when he found that numerous farmers who had the previous season sowed clover seed, had infected their fields with dodder to such an extent as to make it a source of immense loss to them and a menace to clover growing in the entire section. By a system of proper instruction he is now able to teach any farmer to know the difference in seeds in thirty minutes and thus be able to protect himself from the losses involved by sowing poor, mixed or adulterated seeds. He advised all farmers to familiarize themselves with the seeds, not only of grains and grasses, but of weeds as well. He believed that the county adviser should be not only an adviser, but a soil doctor, a guide and an instructor. Having once established himself, Professor Jordan found his time entirely taken up. In addition to the regular work which he is employed to do, he gives instruction in the high school of the city of Sedalia and in many country schools. He prepares bulletins for publication in the county papers on subjects of timely interest. He believes that his lectures in ward schools were much more productive of results than those in the more advanced classes of the high schools. He had succeeded in interesting teachers and bankers as well.

The county adviser system, it would seem, has been brought to a high point of usefulness in the provinc of Ontario, Canada. In that province the organization is supported by a legislative grant of from $600 to $900 per year for each county, the county being required to provide an equal amount.

120-EGG SIZE

The "Ideal"

More Chickens,

Sturdier Chickens, Greater Profits For All in My

IDEAL Incubators and Brooders

You don't need to be an expert to run my Ideal. It has a heating and ventilating system that *automatically* takes care of moisture; a regulator that won't allow temperature to vary a fraction of a degree; it has *accurate* thermometer, best nursery advantages, handiest egg tray, etc.

No experimenting—no guesswork is necessary with the Ideal. You can successfully operate it and make money right from the start. If you are interested in poultry raising, write for

My Special Low Price Freight Prepaid, Introductory Offer and Unqualified Guarantee

When writing, mention whether interested in 60, 120, 175, 240 or 360-egg incubator and I will send you my **BIG POULTRY BOOK—FREE.**

Book contains illustrations of Standard Bred Poultry, tells what foods to buy, what remedies to use, and gives experiences of those who have "made good." Write now for book before you forget it. Address nearest office.

J. W. Miller Co., Box 305 Rockford, Ill.
J. W. Miller Co., Dallas, Texas. The Chas. H. Lilly Co., Western Dist., Seattle or Portland

Price Less Than $10

Freight Prepaid East of Rockies — That Far It You Live Beyond.

Book FREE!

QUICK!

Get Johnson's Book

It tells so many facts not found in other books that you need it, no matter which others you have. Home made, home printed, plain and practical from cover to cover. Tells about the

OLD TRUSTY

Incubator—over 400,000 in use—all sold on 30 to 90 days' free trial, 10 year guarantee—*direct from factory.* Price less than $10. Write to Johnson and read his book—then select your incubator.

JOHNSON, INCUBATOR MAN, Clay Center, Neb.

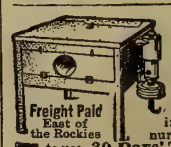
$4.95 AND IT'S YOURS

NEW MANKATO

Direct from factory. 18 years experience. Safe, sure, simple. Redwood, triple walls, asbestos lined. Copper hot water heating tank, self regulator, automatic ventilation, safety lamp, nursery, tested thermometer. Comes all set up, ready to start. Write for free Catalog and Poultry Book. Address

Large Size $8.25

Mankato Incubator Co., Box 827, Mankato, Minn.



Freight Paid East of the Rockies

140 EGG INCUBATOR and 140 CHICK BROODER

The incubator is California Redwood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. 30 Days' Trial — money back if not O. K. Write for Free Catalog today.

Both For $10

Ironclad Incubator Co., Dept. 59 Racine, Wis.

Hatch by Rule

Mandy Lee, the incubator of certainty, is purely automatic. It measures and adapts moisture to heat. Open-front-poultry-house plan. Lee's scientific principles show in bigger hatches, better chicks. Send for book explaining great new Lee features. Sizes up to 600 eggs. Try Germozone for chick health and poultry thrift. Also Lee's Lice Killer and Egg Maker. All books free.

GEO. H. LEE COMPANY,
1175 Harney Street, Omaha, Neb.

Poultry Money

Get in line for your share for 1913. Our big free book "Profitable Poultry and Egg Production" tells how—Illustrates and describes

CYPHERS INCUBATORS and Brooders

The World's Standard Poultry Equipment. Book filled with successes of practical poultry raisers and latest methods. 244 pages, illustrated. Write for your copy today. Address

Cyphers Incubator Co., Dept. 42, Buffalo, N. Y.

UNCLE SAM'S POULTRY BOOK

An official guide to poultry success. Written by government experts and worth $10 to you. Costs you only 20 cents and by our plan you can get 50 cents back. Send 2 dimes or 10 2-cent stamps. Uncle Sam says it's best to always use an incubator and

THE SURE HATCH INCUBATOR

is just the kind he says to use. Best materials, well built, low priced and guaranteed for 5 years. Send for big free catalog.

FREIGHT PAID
60 Days Free Trial

SURE HATCH INCUBATOR CO. Box 16 Fremont, Neb.

Most of the advisers start at a salary of $1,200 per year. At the present time there are something like thirty-seven counties which enjoy the system. The gentlemen who occupy the position of advisers are all agricultural college graduates, young men who have been selected because of their particular adaption to the work. It was at first a popular theory that only men of wide educational experience and extensive practical work could be considered capable of filling these positions. The impossibility of procuring men of this class, however, soon compelled the employment of the young college men and it is to their credit that scarcely a one of them has failed to perform his duties so well as to meet with thorough appreciation and an increase in salary. In each district the subjects of greatest import are taken up. In one, drainage is the all-important factor, and through the employment of scientific and practical methods the results obtained have fully justified the employment of the specialist for that purpose alone. In others, fruit growing attains success because of the advice given. Grain growing and live stock raising each occupies a prominent place.

Somewhat in line with the work of Professor Jordan is that of the Iowa Agricultural Experiment Association, the organization of which was completed at Ames last week. This organization was effected with the purpose of co-operating with the experiment station in the distribution of seeds, plants, fertilizers and other materials for experimental tests on the farms of the state. It is further intended to encourage improvement in the methods of farming and farm life by conducting co-operative experiments along various lines, the holding of annual meetings for the discussion of the results of experiments and other important topics, and the issuing of an annual report of all experiments. The membership of the association is restricted to persons engaged in agricultural pursuits in the state of Iowa. It is divided into three classes. The first of these, called regular members, are entitled to hold office, vote, and to undertake experiments under the direction of the association. The second class includes advanced members, to whom are accorded all the privileges of regular members and who have also done experimental work in a manner satisfactory to the executive committee for at least two years. The third class includes honorary members, or those who have gained particular prominence through their activity in the advancement of agriculture in the state. A membership fee of $1 is exacted from each regular or advanced member. The officers elected were as follows: President, Geo. Allee, Newell, Iowa; vice-president, E. R. Trites, Oakville, Iowa; secretary and director of experiments, Prof. J. Buchanan, of the college at Ames; treasurer, Prof. W. H. Stevenson, also of Ames. There are also twelve district representatives. These are F. B. Hanson, Inwood; A. M. Avery, Mason City; F. E. Tracey, Nashua; P. M. Peterson, Cherokee; M. S. Nelson, Goldfield; H. A. McCaffree, Janesville; E. D. Hunt, Logan; M. A. Hauser, Liscomb; Hon. F. D. Steen, West Liberty; Frank Sar, Essex; Fred Wooley, Garden Grove, and W. A. Hook, Packwood.

During the year 1912 the number of farmers who had made experiments in Iowa in connection with the experiment station was something like 400 and only two counties in the state had no experiments. These experiments were with alfalfa, oats, barley, ensilage corn, corn, annual hay or fodder crops, improving old pastures and winter wheat. The seeds in each case are provided by the experiment station without cost, the experimenter agreeing to perform his duties well and to keep an accurate account of results obtained. Membership in the organization may be secured through filling out an application form and agreeing to carry out the test or experiment according to instructions as far as possible and to report at the close of the season. Information in complete form will be supplied by Professor Buchanan on receipt of request.

Only $6.75 And Up

Brings you the world's most famous hatching machine—the incubator with 18 features of superiority—the one that's first in hatching more chicks, larger chicks, sturdier chicks—the most efficient and reliable machine under all conditions—the incubator that's backed by the strongest guarantee ever placed behind a hatching machine.

Don't delay but order a Successful today. You have everything in your favor by starting in the money-making poultry business with my

SUCCESSFUL

INCUBATORS — BROODERS
(Life Producers) (Life Preservers)

I will even go so far as to give you a

$25 Poultry Course FREE

with each machine. This course contains the most practical advice ever given. It tells how to produce poultry and eggs at lowest cost, explains how to sell them to best advantage; in fact takes you from the beginning to end of the business, revealing everything necessary to insure you a big success. Don't delay another day but write NOW for my

Successful Catalogue—FREE

My book tells you about various incubators and brooders. It gives you a good idea of the advantages of each, what size to buy, etc. It is free from all exaggeration and tells you just what steps need to be taken to make good money from the very beginning. Write NOW, before you lay the paper aside.

DES MOINES INCUBATOR COMPANY
50 Second Street Des Moines, Ia.

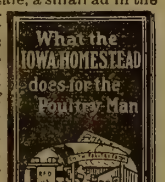
Note—Our famous little booklet "Proper Care and Feeding of Chicks, Ducks and Turkeys." Sent for 10c, but our big catalog is free. Send for it.

Ask about our thoroughbred poultry and eggs for hatching at lowest prices.

Good Prices for Your Poultry

THE shortage and high price of meats have led to a greater consumption of poultry. This and the cold weather last spring which cut down the spring hatch have greatly reduced the supply. Demand and supply always control price. Consequently, the high prices being realized because of an increased demand and a diminished supply are encouraging hundreds of farmers to go into the poultry business in a more earnest manner. One result is a great demand for breeding stock during the coming season.

If you have anything for sale, a small ad in the columns of The Iowa Homestead will find you ready buyers. The 145,000 farmers of Iowa, Illinois, Nebraska and sister states who read The Iowa Homestead regularly have, on account of their increasing interest in poultry, grown to greatly appreciate its regular poultry department which is recognized as the reliable, progressive and practical authority on farm poultry raising of this territory. For years, hundreds of poultry breeders have been patronizing The Homestead as advertisers. We would like to send you a little booklet of testimonials telling about the results these advertisers have received. No obligation attached. It is free to all our friends and every poultry raising farmer is our friend.



Poultry Advertising Department,
IOWA HOMESTEAD, Des Moines, Iowa

BEST EVERGREENS FOR WINDBREAKS.

To the Editor of The Homestead:

A Nebraska subscriber writes:

In the settlement of my father's estate I have fallen heir to a quarter section of prairie land. It is a part of a big farm, but it has no buildings or groves. I shall built next summer a house and barn and I want to plant some windbreaks. My friends tell me that willows and cottonwood grow very fast, but I don't think they are worth much for winter protection. Can I make the hemlock or the white cedar grow in this section? I want an evergreen hedge—if I can get it. But I have been a town boy and must confess that I don't know what I ought to do.

Your decision that you want an evergreen shelter belt about your proposed new buildings is a wise one. Evergreens give you the windbreak when you most need it. You are, however, too far west to grow the hemlock, which requires a rather moist soil and atmosphere. The hemlock is very pretty, and makes a good windbreak wherever it will thrive. Your chance of success with the white cedar, or arbor vitae, is better, but even that cannot be recommended in your location, as the variety to depend upon. We would strongly advise you to plant a composite windbreak, using several of the more ironclad varieties.

It is best to allow plenty of room between buildings, and windbreak at least ten rods. If placed too close you will have the snow sifting through and piling up directly about your buildings. And that is something which you will wish to avoid.

If you can afffford to make liberal plans, allow a belt two rods wide for your trees, and more rather than less. And in this belt set four rows of trees eight feet apart in the row. Use Scotch pine for the outside row, Black Hills spruce for the second row, and white cedar for the inside row. You ought to be able to get these trees in good condition, so that they will all grow. Much depends upon getting a good start. The way to be sure of a square deal is to go yourself to the nursery where you purchase trees, and see them dug and packed. You will understand the necessity of keeping the roots from drying out, and know that if they are once dried the trees are worthless. And you had best get them early, before the buds are started. Have them planted with care, without exposing the roots to sun, or wind. If you attend to these details personally, and this is something which should not be left to an employe, you are reasonably certain of success.

Good culture will be needed, for it is wise to force as good a growth as possible. And nothing responds to liberal culture more promptly than trees. You had better buy trees a foot to eighteen inches tall. They should be, of course, twice transplanted trees, and no wise nurseryman will try to sell you any other kind.

It is possible for you to get stocky eight to twelve-inch trees, that have been transplanted and have a root system sufficient to insure good growth, and if so they would naturally be cheaper than the larger trees. Trees of this size will look scattering upon the land, and you may well plant corn or potatoes between, and do this for three or four years, the culture which the crop requires being sufficient for the trees. Another plan which some would prefer to follow is to plant double the number of trees required for the permanent stand as they grow and begin to crowd, remove half of them for the Christmas tree trade. In the majority of cases this will be found fully as profitable as the plan of cropping the land. It is a question of having the cash to spare for the first investment.

For such a shelter belt six or eight years will be required to make its value apparent, and if it is surrounded by open fields it may meanwhile require a little attention to prevent injury by snowbanks, which will gather over it.

In some cases it is well to add to the evergreen belt a double row of willows placed upon the inside of the evergreens. This will be useful as a makeshift, while the "evers" are coming up to the helpful stage. Then they may be removed root and branch.

The three varieties we have named we consider the best and safest under all the circumstances, but there is some limit, some leeway, for individual taste. You might substitute the Austrian pine, and the red cedar for the spruce, and white cedar, and it may be that either of them would be safer for you than the arbor vitae.

But by all means you had best choose the Scotch pine for outside row, for that is the ironclad of the evergreens. M. E. Hinkley.

THE SILO A NATIONAL FACTOR.

To the Editor of The Homestead:

The leading agricultural subject of the day is the silo, and its coming is of national importance. No subject is receiving so much attention from the experiment stations, farm papers and farmers' institutes. All the great industries depending on live stock, such as the stock yards, creameries, packing houses and transportation companies, are advocating its use. It is a conservation subject of great importance, for with it can be saved a large part of our principal crop. Nearly 40 per cent of the food elements of the corn crop of this country are now wasted. By the use of the silo this could be saved and by so doing hundreds of millions of dollars could be added to our national wealth. The corn forage which annually goes to waste in this country is often referred to as the "billion dollar waste." Is it any wonder we are complaining of the high cost of living?

In the past eleven years the great stock industry of the United States, in comparison with our population, has been showing a decline. This

WYANDOTTES.

A. L. Anderson
Breeder of high-class GOLDEN AND SILVER LACED WYANDOTTES, Indianola, Iowa. 20 miles south of Des Moines.

100 WHITE WYANDOTTES
MY great laying and exhibition strain, cockerels, cock birds, hens and pullets. Write me about them at once, stating plainly just what you want.
S. HARR, RIVERSIDE, IOWA

Faha's Silver Laced Wyandottes
BEST in America. Winners at New York, N. Y., Philadelphia, Pa., Little Rock, Ark., etc. Write for catalog. Frank Faha, Jr., Box 620, Dyersville, Ia.

Large Strain of Buff Wyandotte Cockerels
FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

100 WHITE WYANDOTTES AT $1.50 GOOD ONES
Satisfaction guaranteed. A few yearling hens, balance pullets and ckls. Guy J. Pote, Bridgewater, Ia.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

SEVENTY-FIVE (75) R. C. Silver Laced Wyandotte cockerels in healthy condition. Price $1.50 or 4 for $5. Address Ansel T. Brookins, Ionia, Iowa.

PARTRIDGE WYANDOTTES 50 cockerels, 50 pullets. Buff Wyandottes, cockerels and trios. Prize winners. Thos. L. Morlan, Indianola, Ia.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address R. B. Rowe, Indianola, Iowa.

WHITE WYANDOTTES ONLY. Can furnish pens not akin, pullets $1 up, cockerels, $1.50 up. Address J. F. Wilson, Downey, Ia.

SILVER Laced Wyandottes, scored cockerels, hens and pullets for sale. Blue ribbon and cup winners at Dubuque, Dec., 1912. Herm C. Ransom, Ionia, Ia.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

WHITE WYANDOTTE COCKERELS $3, $2, $1.50 each. Mrs. Geo. F. Pierce, Route 4, Sac City, Iowa

FOR SALE White and Silver Laced Wyandotte cockerels. The Malmberg strain. Good color and bone. Malmberg Bros., R. 3, Red Oak, Ia.

White Wyandotte Cockerels $1.50 each. A few Muscovy ducks $1 and $1.50 each. Mrs. T. W. Glass, R. 5, Sac City, Ia.

WORPS., Wyandottes, 1st cock Des Moines, trap nested, great layers, ckls., eggs, baby chicks, prices right, order early. Carmichael & Crouse, Perry Ia.

BUFF WYANDOTTE COCKERELS Farmer's fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

50 White Wyandotte ckls. $1 each, scored birds $1.50 to $2. Good, heavy-boned, typical shaped fellows. Ethel H. Shaw, Monroe, Iowa.

Partridge Wyandottes Cockerels and pullets of high-scoring birds. Ckls., $2 to $8, pullets $2 to $5. Edw. Meyer, Dyersville, Ia.

SILVER Laced Wyandotte ckls. for sale. Owing to change in location must close out early at prices that will take them. S. R. Young, Greenville, Ia.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

BUFF WYANDOTTE COCKERELS that are buff and Indian Runner drakes. Fawn and White. Geo. M. Deyoe, Mason City, Ia.

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl., and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

EXTRA BLACK LANGSHAN COCKERELS for sale, $2.00 each or 3 for $5.00. Eggs in season. Mrs. Sarah F. McKeen, Route 1, Sac City, Iowa.

BLACK LANGSHANS Winners at Keosauqua and Ottumwa, 1912. Choice ckls. $1.50 and $2.00. Bert A. Randell, Mt. Zion, Iowa.

EXTRA big-boned, glossy, black-eyed, black Langshan ckls., scored 91 to 95, $2, $3.50, $5 ea., pullets $15 doz. Guar. Osterfoss Poultry Farm, Hedrick, Ia.

BLACK Langshan ckls. scoring from 90 to 94½; winners at Iowa State Fair. These birds are large, heavy-boned. Address A. Dearinger, Reasnor, Iowa.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls. and pullets for sale. W. W. Vaughn, Marion, Iowa.

DOGS.

SCOTCH COLLIE PUPPIES
HIGH-class puppies, the **best blood** in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. T. A. STEVENSON, SHANNON CITY, IOWA

COLLIES Sired by Seedley Superior, Parbold Proclamation, Billesley Burglar and Lazeweli Superior, reserve winner at Des Moines, Iowa, 1912. Bitches by Superior Prior and Artist. Pups all S. & W. well marked. Pups for the farmer or the breeder. F. M. Swank, R. 4, Unionville, Ia

Collies Choice pups and brood bitches, trained drivers. Sales list free. AIREDALES, for hunters, watch dogs, companions, have no superiors, state your wants. P. L. Savage, St. Charles, Ill.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

PLYMOUTH ROCKS.

EVERGREEN LAWN FARM
M. HUMMEL, Proprietor, MONROE, IOWA,
Has for sale 200 Barred Plymouth Rocks with large bone, finely barred, from high-scoring, first-prize-winning stock. We won 37 prizes at our last showings.

BUFF ROCKS
SPECIALTY breeder and exhibitor for 15 years. Choice cocks, hens and cockerels for sale. Write stating just what you want, what price you will pay and I am sure I can please you for I have the quality. Address M. E. KRAFT, Brooklyn, Iowa.

80 Very Choice Barred Plymouth Rock
COCKEREL-BRED cockerels and pullets for sale at from $2.00 to $6.00. Can furnish pens not related. Mrs. L. C. Reece, R. 1, Box 21, Prescott, Ia.

BUFF PLYMOUTH ROCKS
BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address J. O. KOERTH, - Ionia, Iowa.

WHITE PLYMOUTH ROCK COCKERELS
WEIGHING 6 to 9 pounds each, with good color, nice yellow legs, good combs and eyes. They are good enough to show. At $2, $3 and $5 each. Address Chas. L. Berry, R. 6, Iowa City, Iowa.

Big Barred Rock Cockerels
200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address Theo. Martin - - Bellevue, Iowa.

WHITE ROCK COCKERELS FOR SALE
SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Berwick, Iowa.

WHITE ROCK COCKERELS
STRICTLY high-class. Now is the time to place your order for cockerels. Priced at $2.00 to $3.00 each. Money back if not suited. Address, JOHN W. HOUSELOG, Bellevue, Iowa.

"PARTICULAR" BARRED PLYMOUTH ROCKS
THE winning and laying kind. Cockerels $2.00, $3.00 and $5.00 each. Large bone, clear color, deep, narrow barring. Mated trios $5.00 and $8.00; pens $10-$14. Birds returned at my expense if not satisfactory. Address J. M. Detwiler, R. 2, Dunlap, Iowa.

COCKERELS—Standard bred Barred Plymouth Rock. Best line bred birds sold on approval at $2, $3, $5 and $10 ea. These are good ones. No better blood. A. W. Nickols, 215 W. Ashland Ave., Indianola, Ia.

60 BUFF ROCK COCKERELS for SALE
at $1.50 to $5.00. Some splendid birds. Also choice pullets. Address Mrs. P. J. Eggers, Denison, Iowa.

Barred Rock Ckls. Choice ringlet barring, large birds and of heavy laying strain. $1.25 to $2.00. Few Rouen drakes also. Address C. W. Francisco, Inland, Nebraska.

BARRED PLYMOUTH ROCKS FOR SALE
200 B. P. Rocks that will please in quality and price. Large and evenly barred. Try us for a square deal. C. G. GOOD, Ogden, Iowa.

BUFF PLYMOUTH ROCKS Best breeding. Fine birds. Cockerels $1.50. Pullets $1.00. Eggs $1.50 for 15. W. M. Black, Knoxville, Ia.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

CHOICE Plymouth Rock cockerels. First premium at our county fair. All prices to suit buyers. Address H. E. SANDEN, OGDEN, IOWA.

FOR SALE---W. P. Cockerels at $1.50 Each.
Address Moncrief Bros., Center Junction, Iowa.

POINTERS—I have some of the best Buff Rock cockerels I ever raised. Fine, large, healthy birds. Prices right. Address C. J. Henline, Garwin, Iowa.

Barred Plymouth Rock Cockerels Some fine pen headers for sale. Write Chas. E. Nelson, Boone, Iowa.

100 BUFF R. COCKERELS Single birds $2.00, 3 or more $1.50 ea. Bred by prize-winning stock. Mrs. J. F. Crase, R. 2, Redfield, Ia.

FOR SALE.---White Rock Cockerels. Price $1 to $3
each. Address Mrs. Myrtle Carter, Panora, Iowa.

PURE-BRED White Plymouth Rock cockerels, Fishel strain, farm raised, $1 each. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

Buff Rock Cockerels Farm raised, fine large birds of good quality. From utility stock. Write for prices. R. H. Roberts, Clear Lake, Ia.

BUFF ROCK Cockerels $2. $1.50 each in lots of two or more. Bred from state fair and state show winners. Address C. & C. T. Van Lint, Pella, Iowa.

W. P. ROCK Cockerels, White Holland turkeys and Embden ganders for sale at reasonable prices. S. M. Compton, R. 3, Newton, Iowa.

BARRED Plymouth Rocks, largest type, best breeding, heavy laying strain. The poultry for the farmer. Mrs. S. M. Thompson, Birmingham, Ia.

BARRED Plymouth Rock Ckls. Large, well barred, healthy birds. Good laying strain. Reasonable price. Mrs. J. H. Hellman, R. 4, Holstein, Ia.

WHITE ROCK cockerels and pullets $1.00 each. Scored birds scoring 90 to 94, $1.25 to $2.00, from prize winners. Mrs. G. W. Shaw, Monroe, Iowa.

Barred P. Rocks A fine lot of big ckls., even, narrow, deep barred. Also pullets and hens. Best breeding and quality. Orville Jones, York, Neb.

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

W. P Rocks. Best layers and payers; exhibition and utility stock for sale. Blue Ribbon winners. Write for prices. F. E. Ristrim, Stanhope, Ia.

condition has been largely brought about by the rise of price in all kinds of stock foods, thereby making a smaller profit to the producer. This, in turn, has driven many men out of the stock business and discouraged others from going in. With the silo the cost of producing stock and stock products can be greatly lowered. Experiments have shown that by the use of the silo in place of the old feeding methods, butter can be produced from nine to ten cent per pound cheaper and a saving made on the production of beef from $1.50 to $2 per hundred pounds. As the largest part of our food comes from live stock it is plain to see the relation of the silo to our national food supply.

Silage can be made from nearly all kinds of farm forage and is a good and cheap ration for horses, cattle, sheep, swine and chickens. It requires little storage space, is a labor-saving device, doubles the value of the corn crop, triples the stock carrying capacity of the land, restores the fertility of the soil, and returns its user annually 100 per cent on the investment. A. L. Haecker.

That the city bred boy at the University of Minnesota, is the "all around" physical superior of the lad reared on the farm, was the statement of Dr. L. J. Cooke, gymnasium director and the head of the department of physical education of the University of Minnesota. According to Doctor Cooke among the physical defects found in students from rural communities are: Flabby muscles, humped shoulders, curved spine, low right shoulder, muscular weakness of heart action, small chest expansion, small lung capacity. "In the boy from the farm," said Doctor Cooke, "the muscles of the arms and shoulders usually are well developed, while nearly every other part of the physical organization falls below the general average. The city youth, who usually has had more or less physical training possesses a much better physique."

The increasing consumption of bananas in a number of countries naturally raises the question of an adequate supply to meet the coming demand. In Jamaica, where the immense banana crop is produced on about 3 per cent of the total acreage of the island, there is yet plenty of suitable land available. In Mexico, Central America, Panama and Columbia, not to mention the large possibilities of Haiti and the Dominican republic, there are vast tracts of land where a fertile soil, a warm climate and abundant rainfall favor the production of bananas on a large scale. Not only is there land enough, but the profits of the crop are sufficiently remunerative to attract the investment of ample capital to meet the world's demand.

Drain the oil-system of the automobile, brushing out and thoroughly cleaning with kerosene, then oil lightly, which will carry it through the winter free from rust.

By keeping a little tab on the hens that are laying best, now; then setting the eggs from these hens in early spring, one is pretty sure to develop a flock of first-class winter layers.

POINTERS.

—Buff Plymouth Rock cockerels and pullets of the best breed are offered for sale at very moderate prices in the advertisement of W. M. Black, Knoxville, Iowa, that appears on this page.

Mr. Black will also be able to furnish eggs in season.

—Toulouse geese and Barred Plymouth Rock cockerels are advertised for sale by James Cockerton, Whiting, Ia., on page 29.

—Mrs. L. W. Fischer, Onawa, Iowa, is quoting prices on White Plymouth Rock cockerels and hens in her advertisement on this page.

—If wishing to purchase Bourbon Red turkey toms read the advertisement of Mrs. Cora A. Hill, Orient, Ia., that appears on page 29.

—White Plymouth Rock cockerels are advertised for sale by Moncrief Bros., Center Junction, Iowa, in their advertisement on this page.

—Bertel Hansen, Alta, Iowa, has an advertisement on this page offering White and Partridge Plymouth Rocks of the best strains for sale.

—Mrs. W. T. Davis, Truro, Iowa, will sell Rose Comb Rhode Island Red cockerels at reasonable prices. Her advertisement appears on this page.

—A. W. Nickols, Indianola, Iowa, will sell standard-bred Barred Plymouth Rock cockerels on approval at prices quoted in his advertisement on this page.

—F. L. Reinhard & Son, Ottumwa, Iowa, advertise a closing-out sale of White Orpington cockerels, hens and pullets. Their advertisement appears on page 29.

—F. Bollman, Wall Lake, Iowa, has a nice lot of Single Comb Brown Leghorns which he is offering for sale to Homestead readers in his advertisement on page 29.

—H. E. Sanden, Ogden, Iowa, can supply Homestead readers with choice Plymouth Rock cockerels at prices to suit the buyer. His advertisement appears on this page.

—Ida Hepp, Audubon, Iowa, can furnish Homestead readers with Single Comb Brown Leghorn and Barred Plymouth Rock cockerels as per advertisement on page 29.

—Mrs. Grant Gallaher, Spencer, Iowa, has twenty choice Mammoth Bronze turkey hens and pullets with extra good golden bronze and pure white edging, weighing sixteen to eighteen pounds, that she is offering for sale in her advertisement on page 29. She also has a few Barred Plymouth Rocks on which she will make cut prices for January.

—Mrs. C. A. Geisz, Mount Carroll, Ill., has thirty high-scoring, choice Barred Plymouth Rock cockerels on which she is naming prices in her advertisement on this page.

—Rose Comb Brown Leghorn cockerels, choice, healthy birds from excellent laying strains, are offered for sale by E. E. Snively, Jefferson, Iowa, in his advertisement on page 29.

—Pure-bred Mammoth Bronze turkeys sired by a forty-two-pound yearling tom are offered for sale by Sam Thronson, Lake Mills, Iowa, in the advertisement that appears on page 29.

—Choice Buff Rock cockerels are advertised for sale by Mrs. P. J. Eggers, Denison, Iowa, on this page. The best of these go at 1.50 to $5. Also a few choice pullets for sale. Write her at once.

—Guy J. Pote, Bridgewater, Iowa, has 100 White Wyandottes consisting of yearling hens, pullets and cockerels that he is offering for sale at the price named in the advertisement on page 27 of this issue.

—J. Russell Lang, Brooklyn, Iowa, can supply our readers with Single Comb White Leghorns and Ringlet Barred Plymouth Rocks and guarantee satisfaction at prices named in his advertisement appearing on page 29.

—"I have a choice lot of Rose Comb White Leghorns this year," writes Mrs. George H. Tutt, Marathon, Iowa, in sending an advertisement that appears on page 29. They are not brassy, but pure white, and anyone wishing good cockerels will make no mistake in sending me their orders. I have no pullets for sale. I have a large flock from which to select eggs this season."

—With this issue of The Homestead J. T. R. Nash, Minden, Neb., is starting an advertisement offering extra choice White Orpington cockerels of the famous Kellerstrass strain at the very low price of $1.50 each. Mr. Nash has been breeding these birds for some time and they are descended from the very best foundation stock obtainable. Eggs for hatching will also be for sale from this flock within a few weeks. Ask for prices on them. You will find them below what such eggs can ordinarily be bought for. Mention The

SOLD HIS OWN AND FOUR OTHER FLOCKS.

MILT BRADSHAW, Beaconsfield, Iowa, ran a small advertisement six times in the Poultry Department of The Homestead. Then he wrote: "Take my advertisement out. I have sold all the turkeys I had and four other flocks besides, and could dispose of 300 if I had them." Pure-bred turkeys are in demand and those who have them for sale may find ready buyers through the medium of the advertising columns of The Homestead. For advertising rates address

HOMESTEAD CO., - DES MOINES, IOWA.

PLYMOUTH ROCKS.

250 BARRED PLYMOUTH ROCKS FOR SALE Large-boned, nicely marked, sires scoring 90 to 92½ in show. A few good M.B. turkeys for sale. Large boned and nicely marked. In seven show rings I won 38 1st, 19 2d, 4 3d, 3 4th, 2 5th. Nothing but first-class stock shipped. Prices reasonable. Address J. W. Wagner, Monroe, Iowa.

BARRED ROCK COCKERELS
AS good as they grow. All bred from our Des Moines and state show winners. Heavy bone, fancy color. Prices $2.00 to $5.00. Satisfaction guaranteed. Address MASON C. OGG, Monroe, Ia.

FOR SALE WHITE and PARTRIDGE Plymouth Rocks of the best strains, good size, shape and color. Before you buy write me. My prices are right for quick sale. Address BERTEL HANSEN, Alta, R. 2, Iowa.

BARRED PLYMOUTH ROCK cockerels and pullets, 100 birds from utility strains with size and color to suit you. Customers satisfied. Write me now. J. F. Davidson, Lamont, Ia.

100 PURE BRADLEY B. P. R. Ckls. $1 to $5 each, some sired by 1st and color special cock at Des Moines show. Also 75 ckls. bred pullets by same sire. W. E. Ruffcorn, Defiance, Iowa.

B. P. ROCK CKLS. Big heavy-boned fowls from excellent foundation. Choice markings. $1.25 to $2.50. Address F. R. BARRETT - CADAMS, NEB.

HIGH-scoring 30 choice B. P. Rock ckls., a fine lot of big, even, narrow, deep barred. Have raised them for 15 years. Price $1.00 to $2.00 each. Address Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

BARRED ROCK COCKERELS Well bred, fine laying strain, $1.00 to $2.00 each. Mrs. W. F. Bohlander, Avoca, Iowa.

WHITE ROCK COCKERELS $3.00 each, 10 to 11 lbs. Eggs in season. Mrs. W. Anderson, Rising City, Neb.

B. P. ROCK COCKERELS FOR SALE. Scored and unscored. Write for prices. Address Mrs. S. W. Miller, Truro, Iowa

FOR SALE White P. Rock ckls. and hens. Good birds, farm raised. Prices from $1 to $3. Address Mrs. L. W. Fischer, Onawa, Iowa.

CKL. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

PURE W. P. ROCK COCKERELS for sale, farm raised, very fine birds, $1.25 to $1.50 each. Mrs. Lorenz Petersen, R. 2, Tama, Iowa

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
I STILL have a number of those large-boned, vigorous, farm-raised cockerels for sale, bred from a heavy laying, prize-winning strain. Scored and unscored. Write me for prices on eggs and baby chicks before you place your order for the coming season. Two pens headed by 1st prize winners, besides a fine farm range flock. Prices low as the lowest. Address H. E. HUSTON, Iowa Falls, Iowa.

ROSE COMB R. I. RED COCKERELS
BRED from prize-winning, good laying strains. Prime birds, farm range, closing out $1.50 to $2. Special reduction on four or more. Write today. W. W. Forbes, Box 441, Jefferson, Iowa.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

R. C. Rhode Island Reds
COCKERELS FOR SALE. High score and prize-winning stock. Write for particulars. Prices $1 to $5. T. H. Thompson, Kanawha, Iowa.

Farm Range Rose C. R. I. R.
COCKERELS $1.50 to $2.00; pullets at same price. The kind that lay at all times. Good individuals. J. B. HEISEL, Grinnell, Iowa.

S. C. R. I. RED COCKERELS
A FEW fine breeders left at $2 up. If you need some good even Reds, write today. Address L. G. Johnson, Box H, Steamboat Rock, Ia.

S. C. Reds, Brilliant Red Strain
LARGE bone, vigorous cockerels, $2, $3 and $5 each and up. Females $1 to $5. Trios and pens, $10 to $25 Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

ROSE COMB REDS Nothing else. Good healthy farm raised cockerels $1.50 and $2.00 each for choice birds. Address B. F. Bentley, R. F. D. 2, Boone, Ia.

R. C. R. I. RED COCKERELS 200 BIG-BONED Cockerels, Scored and unscored. Reduced prices on early orders. F. N. Blake (successor to Harry C. Blake) Maquoketa, Ia.

MY ENTIRE FLOCK OF R. I. RED PULLETS $1
each. Cocks $1.50 and $2. Mrs. F. B. Dann, Dewitt, Ia.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

REMOVAL SALE Sold my place and will sell S.C.R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

CHOICE R. C. R. I. RED COCKERELS Deep red. Early hatch $1.50 up. Address Earle Welch, Kanawha, Iowa.

R. I. REDS (Both combs) Exhibition and breeding males and females for sale at $1.50 and up. Address W. I. Mouser, R. 5, Red Oak, Iowa.

50 S. C. R. Red ckls. $1 each. Birds scoring 90 to 93 $1.50 to $2 each. From heavy laying, typical shaped strain. Jennie Efnor, Monroe, Iowa.

R. C. R. I. RED COCKERELS for sale. Prices reasonable if taken soon. Address Mrs. W. T. Davis, Truro, Ia.

DEEP RED R. C. R. I. Red eggs for hatching after March 1st. One pen of 7 pullets and ckl. S. C. Reds for sale. Mrs. Charles Belz, Conrad, Iowa.

S. C. R. I. RED COCKERELS FOR SALE; Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

A NUMBER of fine R. C. R. ckls. Also trios in both R. and S. comb. A number of lay house pullets $12 a doz. Inquire of Mrs. A. L. Morrill, Pontoosuc, Ill.

CHOICE S. C. R. I. RED COCKERELS
Write your wants. Mrs. Sophia Rader, Laurel, Iowa.

TURKEYS.

Mammoth Bronze Turkeys

WITH SCORE CARDS from 94 to 96¼. Also a few good Silver Laced Wyandotte cockerels. Address Mrs. D. C, Molesberry, Plymouth, Iowa.

YOUNG THOROUGHBRED Mammoth Bronze turkeys, hens $4, toms $6. Barred P. Rock cockerels, nicely barred, large boned, yellow legs, $2 and $3 ea. From my 1st prize cock scored by Russell. Rosalie Newberry, Box 6, Argyle, Lee Co., Ia.

BOURBON RED TURKEYS

LARGE, heavy-boned ones. Toms $5. Express prepaid through Jan. Harry Sprague, Midland City, Ill.

MAMMOTH BRONZE TOMS sired by a 50-lb tom. A fine mate collie. Registered Holstein cows. Address E. J. THOMAS, West McHenry, Illinois.

FOR SALE Pure-bred M. B. Turkey toms and hens choice of a flock of 160 sired by a 40-lb. tom large healthy birds. R. H. Coyle, Cascade, Ia.

M. B. TURKEYS Young stock sired by 1st prize cockerel Ia. State Fair, 1911. Young toms $5. Females $3. Lots of vigor. Sterling Martin, Melrose, Iowa.

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

FOR SALE---Mammoth Bronze Turkeys Toms $5. Hens $3. At home. Mrs. J. C. Martin, R. 5, Manning, Iowa.

BOURBON RED TURKEYS Hens, $3.00. Toms, $5.00. MRS. M. MOSS, - Tipton, Iowa.

MAMMOTH BRONZE TURKEYS S. C. White Orp. cockerels, Barred Rock cockerels. Mrs. J. A. Campbell, Manning, Ia.

M. B. TURKEYS Young toms as good as the best $5.00 each. Satisfaction guaranteed. F. J. Sexsmith, R. F. D. 2, Orient, Iowa

FOR SALE Pure-bred, white winged, Buff or Bourbon Red turkeys. Address Wm. Oakland, Blairsburg, Iowa.

80 W. Holland turkeys, fine, healthy birds, Can furnish trios unrelated. Write me your wants. Mrs. C. H. Schmidt, R. F. D. 1, Tripoli, Iowa.

BOURBON RED TURKEY TOMS $5 each and good ones. Come soon to get best. Mrs. Cora A. Hill, Orient, Iowa.

MAMMOTH BRONZE TURKEYS Toms $5, hens $3.50 from 40-lb. sire. Jennie Efnor, Monroe, Iowa.

BOURBON RED TURKEYS Toms, $5.00. Hens, $3.00. Eggs in season. Mrs. Allie Davis, Saline, Mo.

FOR SALE Pure-bred M.B. turkeys, sired by a 42-lb. yearling tom. Write for prices. Sam Thronson, R. 2, Lake Mills, Iowa.

BOURBON RED TOMS at $5.00 each. Large, healthy big-boned kind with fine plumage. Address Mrs. Al. Minish, Voorhies, Ia.

MAMMOTH BRONZE TURKEYS Large, heavy-boned birds with perfect markings. Mrs. J. C. Cannon, Crawfordsville, Ia.

TWO-YEAR-OLD M. B. TURKEYS. HENS $5 and gobblers $8. Write Mrs. F. B. Dann, Dewitt, Ia.

BOURBON Red Turkeys. A few nice toms for sale. Good color, large bone and healthy $4.50 each. W. M. Peterson, Route 3, Corning, Iowa

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. Foster, Caldwell, Ohio.

FOR SALE Fine young M. B. toms from scored hens. Good size May birds. Clover Hill Stock Farm, Kellerton, Iowa

MAMMOTH BRONZE turkeys from stock sired by tom scoring 96¾. Toms $5, hens $3.50. Few Barred R. ckls. $1.25. Mrs. John Tucker, Birmingham, Ia.

White Holland Turkeys for sale. Big-boned, vigorous birds, reasonable prices. Mrs. J. H. Richardson, Bristow, Ia.

MAMMOTH BRONZE TURKEYS from prize winners. Embden ganders. Address Samuel Locke, Selma, Ia.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. LONGWORTH'S, Polk, Iowa.

BOURBON RED TURKEYS FOR SALE. Big boned, strong and vigorous. Address Peter M. Sullivan, Brandon, Iowa

M. B. Turkeys White Wyandotte ckls. Pekin ducks. Prices right. Address Mrs. A. Kitson, Audubon, Iowa

DUCKS.

30 Good Drakes Left

SIRED by drakes weighing 10-11 pounds, dams 9 pounds. Scored from 95 to 97, $2 each, three for $5. Address JOHN M. HALL, Williams, Iowa

80 YOUNG PEKIN DUCKS and DRAKES

WEIGHING up to 9 lbs., sired by drakes scoring 96 to 97, weighing 10 and 11 lbs. Old hens weighing 9 lbs. $1.50 up to $2.50 each. Write your wants to J. M. HALL, R. 1, Williams, Iowa.

FAWN and White I. Runners. Unrelated trio $5. Females $2 each. Write for prices on high-scored drakes. Address Mrs. C. A. Robinson, Griswold, Ia.

INDIAN RUNNER DUCKS $1.50 each. Rhein-hard strain. Address Mrs. G. W. SHAW, Monroe, Iowa.

INDIAN RUNNER DUCKS and Toulouse Geese Ducks $1 to $1.50; geese $2, ganders $2.50. Elsie McKibben, Hazleton, Iowa.

FOR SALE. A few female Collie pups from reg. parents that are natural heelers. Are ready to go to work. E. M. Filson, Birmingham, Ia.

PEKIN DUCKS Extra large No. 1 laying strain. Hens, $1.50; Drakes, $1.50; young 9-lb. drakes, $3. Mated trio, $4.50. Edward Meyer, Dyersville, Ia

Indian Runners Pencilled, mated trios, $5.00. Drakes, $1.50 to $2.00. Address Nishna Collie Kennels, Oakland, Iowa.

Homestead when you write. See advertisement on this page.

—C. J. Henline, Garwin, Iowa, writes: "I have some of the best Buff Plymouth Rock cockerels I have ever raised, fine, large, vigorous birds and at right prices." His advertisement appears on page 28.

—Mrs. Hester Musselman, Truro, Iowa, has Single Comb Buff Leghorn cockerels on which she would like to quote prices to Homestead readers. Her advertisement appears on this page.

—Rosalie Newberry, Argyle, Iowa, can supply Homestead readers with Mammoth Bronze turkey hens and toms and Barred Plymouth Rock cockerels at prices named in her advertisement on this page.

—The advertisement of Mrs. John Tucker, Birmingham, Iowa, in which she is quoting prices on Mammoth Bronze turkey toms and hens and Barred Plymouth Rock cockerels, appears on this page.

—"My Barred Plymouth Rocks were big winners at Boone," writes Charles E. Nelson, Boone, Iowa, whose advertisement appears on page 28. "I am offering a number of pen headers, either mating, at right prices. Money returned if not satisfactory."

—Walter Brown, Shannon, Iowa, is offering Buff Orpington, Golden and Silver Laced Wyandotte hens, pullets and cockerels for sale in his advertisement on this page. He writes: "This is all good stock and I hope to close them out quick at the special low price I am quoting."

—The advertisements of Mrs. Jennie Efnor, Monroe, Iowa, breeder of Single Comb Rhode Island Reds and Bronze turkeys, appear under the head of each breed in this department. She writes that she is able to supply the most exacting Homestead readers this year at right prices and from high-scoring, prize-winning flocks.

—The advertisement of C. E. Groff, Guernsey, Iowa, offering standard, line-bred Single Comb White Leghorns for sale, appears on this page of The Homestead. A list of prizes won at Grinnell, Ottumwa, Belle Plaine and the Iowa State Fair on stock exhibited by Mr. Groff will be found in the advertisement referred to.

—"We can furnish Homestead readers with White Plymouth Rocks and Indian Game cockerels, large, vigorous birds of good shape and color, suitable for pure-bred pens and also for the market breeder at very reasonable prices," write Hennessy Bros., Strawberry Point, Iowa, in furnishing copy for their advertisement on this page.

—Mrs. D. C. Molsberry, Plymouth, Iowa, writes: "My Mammoth Bronze turkeys are extra fine, both as to size and markings. I have pullets now weighing eighteen pounds with score cards up to 95¼. My young toms have score cards up to 96¼ and weigh twenty-five to twenty-eight pounds. They are very choice and in perfect health." See advertisement on this page.

—Mrs. W. Anderson, Rising City, Neb., whose advertisement of White Plymouth Rock cockerels appears on page 28, writes: "Our flock of White Plymouth Rocks are the best ever. They are all sired by pure white, $15 birds of last year's state show winners. Our pullets began laying in November and cockerels hatched the first of May weighed ten pounds in that month."

—Mrs. Alice J. Morris, proprietor of Orpington Farm, Big Rock, Ill., writes that she wishes every reader of The Homestead could see her fine flock of White and Buff Orpingtons. She still has a nice lot of birds for sale and can supply your wants. Her pens are now mated and eggs for hatching can be shipped at any time. Look up her advertisement on this page for prices.

—"In regard to the Barred Plymouth Rock cockerels I am offering for sale," writes W. E. Ruffcorn, Defiance, Iowa, "I will say they are a good lot with good bone and nicely barred. A good many are sired by my first and color special cock at the recent show at Des Moines. He was also first at the state show at Sioux City in December. I am pricing them low in order to move them."

—Mrs. William Stoll, Le Mars, Iowa, whose advertisement appears on page 28, writes that she has some fine Barred Plymouth Rock cockerels of the Ringlet and Bradley strains to sell. They are very fine and narrow barred, and anyone wanting cockerels will find her birds above the average. They are from prize-winning stock and are bred for eggs, utility and show room, and also for size. Her birds won prizes wherever shown this past fall.

S. M. Thompson, Birmingham, Iowa, is advertising Chester White boars and gilts of the very best breeding and they are of the large, growthy kind and in fine condition for breeding purposes. He is also offering one yearling Short-horn bull and two bull calves that are hard to beat and are well bred. Anyone in need of a Chester White boar or gilt or a Short-horn bull should write Mr. Thompson at once, kindly mentioning The Homestead. See advertisement on page 39.

The Columbian tank heater can be used in four-foot tanks and larger. Any fuel may be used and draft is regulated same as in a stove. One supply of fuel lasts fifteen to twenty-four hours. This is possible since the draft arrangement can be closed air tight. Fresh fuel can be added and ashes removed without disturbing the fire. This seems to be a very durable and convenient tank heater. If your stock water is too cold, or freezes, read the advertisement on page 8 and write for price, shipping weight, etc.

LEGHORNS.

A Choice Lot of Rose Comb

BROWN LEGHORN cockerels for sale at Pike Timber Stock Farm. EGGS IN SEASON. DAVENPORT & MACK, Belmond, Iowa.

SINGLE COMB BROWN LEGHORN

Cockerels and hens. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. J. A. PENN, Phone 87, ALTA, IOWA

STANDARD line-bred S. C. White Leghorns. Bred for exhibition and utility combined. Won 1st ckl. Grinnell, Ia.; 3d ckl., 2d pen, Ottumwa, Ia.; 3d ckl. Belle Plaine, Ia.; and 3d on market eggs, Iowa State Fair. Ckls. and pullets for sale. Birds shipped on approval. Address C. E. Groff, Guernsey, Iowa,

S. C. W. LEGHORNS Cockerels for sale. Vigorous, free range stock. Scored birds $1.00 to $5.00. Eggs in season. Address W. C. Kimball, R. 1, Shellrock, Iowa.

HIGH SCORE S. C. B. Leghorn ckls. 91 to 93½. Some unscored. My price is low. AUG. SCHRAGE, Bristow, Ia.

CHOICE heavy, laying strain, S. C. W. Leghorns at $15 to $18 per doz. These are choice breeding stock but as we are moving to Lisbon, Iowa, must sell. Address C. H. DRAKE, Hazelton, Iowa.

COCKERELS S. C. W. Leghorn, $1.00 to $2.00 each, 6 for $5.00 if taken soon. Ringlet Bar Rocks $1.50 to $5.00. Satisfaction guaranteed. Address J. Russell Lang, Brooklyn, Iowa.

CHOICE ROSE COMB BROWN LEGHORN Cockerels, fine quality, $1 each, six for $5. Mrs. Nelson Hyde, Manson, Iowa.

S. C. W. LEGHORNS Young's strain. Ckls, hens, pullets, $1 up. Shipped on approval. Chas. J. Mackay, Bx. 523, West Liberty, Ia.

Single Comb Brown Leghorn Cockerels for sale at $1.00 each or six for $5.00. Address Rinner Bros., Noble, Iowa.

S. E. Buff Leghorn Cockerels for sale. Prices reasonable if taken soon. Mrs. Hester Musselman - Truro, Iowa.

S. C. W. LEGHORN Ckls. unscored $1, others scoring to 94½ points. A few prize-winners for sale. Mrs. Wilson McIntire, Red Oak, Ia.

S. C. White Leghorns, ckls., hens, pullets, $1 each. Won 1st and 2d at Maquoketa. Fine, large W. Holland toms $5 ea. Mrs. Geo. Rce, Bellevue, Iowa.

LEGHORNS, Rose and Single Comb buff, brown and white $1 each. Leghorn Poultry Farm, R. 8, Hampton, Iowa.

R. C. B. LEGHORNS Cockerels, choice, healthy birds, excellent laying strain, $1 each, 6 for $5. E. E. Snively, Jefferson, Iowa.

R. C. White Leghorns. A choice lot of pure white cockerels $1.25 each. Three or more, $1 each. Eggs in season. Mrs. Geo. H. Tutt, Marathon, Iowa.

FOR SALE COLLIE PUPS, S. C. B. Leghorn cockerels, $1 each or 6 for $5. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. F. Bollman, Wall Lake, Ia.

FOR SALE CHOICE LOT OF S. C. W. Leghorn Cockerels. Address MRS. S. J. PHILSON, - Harlan, Iowa.

ORPINGTONS.

White Orpingtons

KELLERSTRASS strain. Extra fine deep bodied, heavy-boned birds. Choice cockerels for sale now. $1.50 each. Also eggs a little later. Address at once J. T. R. Nash, Minden, Nebraska.

Fortmann's Single Comb White Orpingtons

ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once Frank Fortmann, Box 23, Dyersville, Iowa.

SINGLE COMB BUFF ORPINGTON COCKERELS FOUNDATION stock cost from $35 to $50 each. They are as good as possible to secure. While they last $5.00 each. John T. Stadler, Minden, Neb.

30 BUFF ORPINGTON COCKERELS I AM offering 30 choice ckls. for sale; popular prices if ordered at once. R. W. Halford, Manning, Ia.

300 S. C. Buff Orpington cockerels and pullets, $1.50 and $3 each. A few exceptionally good birds at $5. Our Buffs won 16 premiums at Marshalltown poultry show. H. Cavell, Haverhill, Iowa.

CRYSTAL WHITES direct from Kellerstrass ckls. $2, $3, $5. Trios and pens. Eggs, $8 per 100. Also S. C. Buffs. Orpington Farm, Big Rock, Ill.

CLOSING-Out Sale. W. Orp. Ckls., hens, pullets. Low down, blocky. Bargains to move them. Kellerstrass strain direct. F. L. Reinhard & Son, Ottumwa, Iowa.

COCKERELS, Kellerstrass S. C. White. Bred direct from 1st prize winners at Omaha, Sioux City. Nettie Crane, 2114 Ave. C, Council Bluffs, Ia.

50 CHOICE early hatched S. C. Buff Orpington cockerels for sale at $1.50 each or 4 for $5.00. Mrs. W. E. Zimmerman, Neola, Iowa.

EGGS S. C. Buff Orp., 4 club specials, 16 prizes. 3 pens, $10, $5, $3.50; 2 utility flocks, $1. Mating list ready Jan. 15th. E. N. Silker, Epworth, Iowa.

100 CHOICE early hatched 241-egg strain S. C. Buff Orpingtons. Cockerels and pullets. Cook strain direct. Prices right. W. L. Bardsley, Neola, Ia

BRAHMAS.

LIGHT BRAHMA COCKERELS

THEY have heavy bone and good markings. Have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address FRANK P. HEALY, Bedford, Iowa.

Light Brahma Cockerels

BETTER THAN EVER. Large, vigorous, well-marked birds. Eggs in season. Address FRANK A. JOHN, - Bedford, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

GEESE.

TOULOUSE GEESE B. P. R. cockerels. I am offering 100 choice B. P. Rock cockerels, Easton Shellenberger Thompson strains $1 to $2. P. R. Rock hens and pullets for sale at $12 a dozen. 25 Toulouse Geese, very choicest. Ganders and hens. Won first and second at Sioux City show. James Cockerton, Whiting, Ia.

MISCELLANEOUS.

Strater Bros., Monroe, Ia.

FOR SALE, MONSTER MAMMOTH BRONZE TURKEYS, sired by Iowa King, score 98, and 400 Barred Plymouth Rocks, sired by a son of the Chicago first prize winner, that have the size and quality. PRICES REASONABLE.

FINE THOROUGHBRED POULTRY 48 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 67th Annual Poultry Book. Address R. Neubert, Box 807, Mankato, Minn.

55 BREEDS Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Collie Dogs. Send 4c for large Poultry Book Incubator Catalog and Price List. H.H. HINIKER, Box 32 Mankato, Minn.

MAPLE RIDGE POULTRY FARMS Breeders of B. and W. P. rocks S. C. W. Orp., W. and P. Wyn., R. C. R. I. reds, B. C. bantams, Toulouse geese, P. and I. R. ducks, M. B. turkeys, W. guineas. Splendid lot youngsters ready for winter shows or breeders. Satisfaction guaranteed. Write J. W. Mowery & Sons, R. 2, Hedrick, Ia.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

BRONZE TURKEYS AND PEKIN DUCKS

IF in need of turkeys or ducks of size and standard markings, write J. D. Smith, Montezuma, Iowa.

CHOICE M. B. TURKEYS Large, heavy-boned stock with splendid markings. Also Barred Plymouth Rock cockerels, finely barred, heavy weight, fine quality birds. Prices right. Address Mrs. H. J. Hess, R. F. D. 6, Waterloo, Iowa.

Bonnie View Bourbon Red Turkeys FINEST OF ALL TURKEYS. White Wyandottes, the kind that lays every day. Address MRS. N. W. BURBANK, New Sharon, Ia.

SINGLE COMB BROWN LEGHORN hens, cockerels and pullets, heavy-laying strain, 75c and $1 each; also White African guineas and White Holland turkeys. Satisfaction guaranteed. Edw. Dooley, Selma, Ia

50 W. Wyandotte cockerels and 50 S. C. Buff Orpington cockerels. They are all good, farm raised stock, weighing up to 9 pounds. Prices reasonable. Address A. G. Dreher, Audubon, Iowa.

FOR SALE 100 White Leghorn cockerels Young strain, and 100 White Orp. ckls., Kellerstrass strain, $1.50 to $3 each if taken at once. W. H. Mathews. R. F. D. 8, Sterling, Ill.

MY ENTIRE FLOCK OF BARRED ROCKS and Mammoth Bronze turkeys for sale. Some prize winners. Address Mrs. P. L. Carroll, Hampton, Ia.

20 choice large bone and frame M.B. hens and pullets, markings extra good, Golden Bronze pure white edging, wts. 16 to 18; also few good B.P. Rocks. Cut prices for Jan. Mrs. Grant Gallaher, Spencer, Ia.

Bradley Barred Rocks and S. C. Reds Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

BUFF ORPINGTONS Golden and Silver Laced Wyandottes, hens, pullets, ckls., $1.00 each. Walter Brown, Shannon, Ia.

S. C. BROWN LEGHORNS B. P. Rock cockerels good stock. Write for prices. Address Ida Hepp, R. D. 1, Audubon, Iowa.

Silver Laced Wyandottes, Barred Rocks, White Crested, Black Polish, yearling and young stock for sale. Wm. Neiers, L. B. 45, Cascade, Iowa.

75 BARRED ROCKS and S. C. Reds from high-scoring, farm-raised stock, $2.00 to $3.00 each. Mrs. Jas. McNally, Victor, Iowa.

BLACK and W. Langshans, S. C. Buff Orpingtons, Light Brahmas, R. C. R. I. Reds, choice stock, prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

PARTRIDGE Wyandottes, Buff Orpingtons, Buff Rocks, good ones, from $1.50 to $5. State what you want and get it. Good Bros., Montezuma, Ia.

BARRED Plymouth Rock, Golden Wyandotte cockerels and pearl guinea ckls. $2 up, guineas $1 each. Address J. O. Walton, Belle Plaine, Iowa.

WHITE HOLLAND Turkeys, Barred Plymouth Rocks, Pekin ducks, extra large and from prize winners. Address Fred Post, Moulton, Iowa

R. C. B. LEGHORN Cockerels early hatched, 75 cents and up. I. R. drakes and ducks 75 cents and up. Mrs. G. W. Brockway, Clarksville, Ia.

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Embden geese. Mammoth Pekin ducks; reasonable. Mrs. M. W. Coan, Little Cedar, Ia,

R. C. WHITE ORPINGTONS BRED TO LAY. Mammoth Pekin ducks, Embden geese. P. F. Smith, Montezuma, Ia.

75 White P. Rock and Indian Game cockerels, large, strong, good shape and color, $1, $2 and $3. Address Hennessy Bros., Strawberry Point, Ia.

ROSE and Single Comb White Leghorns and Black Langshan cockerels for sale. Single bird $1.25 or 6 for $6. Address Joseph Kappes, Jr., Ashton, Iowa.

S. C. R. I. RED COCKERELS from scored stock, $1.50 each. Penciled I. R. Drakes, $1. A. B. Walton, Wilton Junction, Iowa.

KELLERSTRASS C. W. Orp. and R. C. and S. C. Rhode Island Red ckls. Utility $1 each, choice ones $2 each. Mrs. T. A. Gough, Bristow, Iowa.

PEKIN DUCKS W. Wyan., choice, large stock, desirable breeders, sure to please. Write for what you wish. E. S. Dyas, Bellevue, Iowa.

WHITE H. TOMS $5 each, White guineas $3 pair, Toulouse geese $5 pair, from best prize winners in state. Ethel H. Shaw, Monroe, Iowa.

WANTED TO BUY S. C. Rhode Island Red ckls., other varieties, also Pekin and I.R. ducks, Toulouse geese. Matthew Mertz, Des Moines, Iowa

Bake Less Often —Save Work and Fuel

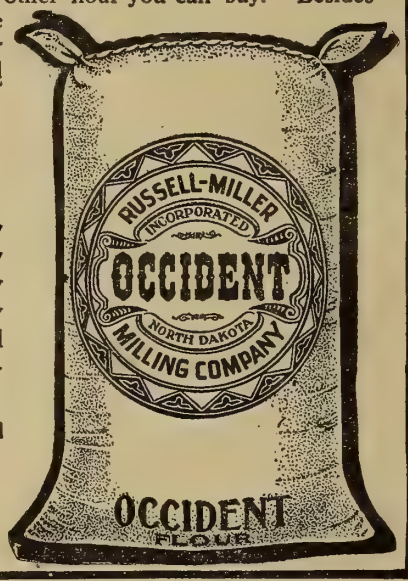
Occident Bread keeps fresh and moist and retains its fine flavor longer than any other bread.

If you use Occident Flour you can bake a double batch of bread at one time. This saves the work and fuel cost of several baking days each month.

Won't you just test this on our Money-Back Guarantee?

The Guaranteed Flour
OCCIDENT

makes bread which stays fresh longer than other bread because Occident is cleaner than other flour. Every kernel of the wheat is positively washed and scoured by special machinery, and goes through more purifying processes than any other flour you can buy. Besides this extra cleanliness we use none but specially selected wheat for Occident Flour—the choicest bread wheat grown.



Costs More —Worth It

Occident Flour costs you only a few cents more than ordinary flour but we GUARANTEE every sack to please you better than any other flour you ever used—for all baking—bread, cake and pastry—or pay back the price of the flour.

Get a trial sack from your dealer and send for our free booklet, "Better Baking"

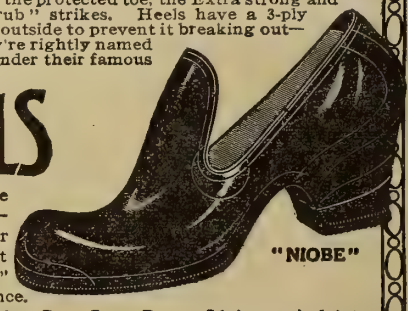
Russell-Miller Milling Co., Minneapolis, U. S. A.

The Heel that Stands the Grind

They fit your shoe at heel and toe. They are not clumsy or heavy yet stand long, hard wear—more than other rubbers. They are no ordinary rubber. The weak place in every rubber is the heel. Examine closely the protected toe, the Extra strong and fortified heels—points where the hard "rub" strikes. Heels have a 3-ply duck heel-plug and extra layers of rubber on outside to prevent it breaking out—making a balanced rubber. That's why they're rightly named "Top-Notch Brand", made and guaranteed under their famous "Cross" trade mark the

BEACON FALLS

LOOK FOR THE CROSS



"NIOBE"

When you find that "Cross" moulded in the instep—rest easy—behind it is quality—and the extreme of wear for your money. Inside—outside—right side—wrong side—the "Cross" guarantees a rubber of reliance.

Women's "CUPID"

NIOBE—A Storm Rubber, Pure Gum, Brown Lining. A dainty piece of Women's wet weather apparel. **CUPID**—Same as Niobe but low cut. Get them at your dealer's. If he hasn't them, send his name and we'll see that you are supplied. Send for free booklet 10

Beacon Falls Rubber Shoe Co.
BEACON FALLS, CONN.
New York: 106 Duane Street
Chicago 307 W. Monroe St.
Boston 241 Congress St.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., 515 Popular Building Des Moines, Iowa

THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

A bright New Year and a sunny track
Along an upward way;
And a song of praise on looking back,
When the year has passed away,
And golden sheaves nor small nor few!
This is my New Year's wish for you.

The other day a friend of mine who lives on a farm told me that she, her husband, her son, who is just out of high school, and her daughter, who is just ready for it, were going to the state college to attend the short course. It struck me as being a fine thing to do and an example that other farm families might well follow. It means two weeks of profitable study, two weeks of intercourse with people from all over the state whose interests are the same, two weeks of complete change and rest from the daily routine of the farm, and, best of all, unlimited satisfaction in knowing that not one of the family was deprived of the pleasures or the educational advantages of the trip.

This is only an instance of the opportunities for improvement and pleasure within the reach of all. There is no reason why farm folks should not enjoy life as much as anyone else and get as much out of it. They can have the same books to read, the same magazines, can attend the same schools, lectures, concerts—in fact, everything of real value is as accessible nowadays to the farmers as to the people in the towns, and it is up to the farmers to make the most of it.

In these days of automobiles and electric interurbans it doesn't pay to let a good lecture or concert or play go by just because it is in town, when in many cases it is not much more trouble and doesn't take much more time for the farmer's family to go than the city man's. And an evening so spent will be of value not only because of the immediate pleasure it gives, but for the broadening effect of seeing what other people see, hearing what they hear, and taking home with us ideas and food for thought that would not have occurred to us otherwise.

But, much as we all need these outside influences, I doubt if there is anything more really satisfying than just being at home, seeing the family gather together in the evening for their hour or so of fun, or reading or study. And there should be wholesome things to read, late magazines and papers that keep one posted about what is going on in the world; good music to play, and all the happiness and good cheer you can crowd into one evening, for

What seems to grow fairer to me as life goes by is the love and the grace and the tenderness of it; not its wit and cleverness and grandeur of knowledge—grand as knowledge is—but just the laughter of children, and the friendship of friends, and the cosy talk by the fire, and the sight of flowers and the sound of music.

So let us try to put all the pleasure we can in our homes this year—pleasure of a kind that will be an aid to better living, pleasure that will enlighten our work and make it more worth while, and, best of all, pleasure that will be for all the family—for the home department of our farm economics.

HOME AND HOMEMAKING.

BROWN BREAD.

One and one-half cups milk (sweet or sour), one and one-half cups graham flour, one cup white flour, one egg, one tablespoon butter, two tablespoons sugar, one cup sirup, one teaspoon soda, a pinch of salt. Steam two hours.

NUT BREAD.

One egg, one cup milk, a pinch of salt, quarter of a cup of sugar, two heaping teaspoons baking powder, two cups flour, one-half cup nut meats. Let raise twenty minutes and bake in a slow oven one hour.

Pie tins made of coarse wire may be had and are excellent for baking pumpkin, custard, or, in fact, any sort of pie. The wire bottom instead of the tin one does away with the steaming and insures a nicely baked, crisp undercrust.

No recent home labor-saving device is of more actual value to the housewife than the vacuum cleaner. For those who have not electricity in their home there are smaller hand-power machines which do good work, and even small vacuum sweepers which are used the same as ordinary carpet sweepers and are very reasonable in price. They save the hard work of sweeping, do the work better than a broom and eliminate the dust that cannot be avoided in the old method of sweeping, no matter how carefully it is done.

A bowl of quicklime, if placed in a damp pantry or closet, will absorb the dampness and any odor that may be in the closet.

Enameled sauce pans, etc., that have been discolored may be rendered clean by boiling for half an hour in two parts of water to which is added common soda and a small packet of chloride of lime. Then wash thoroughly in clean water.

BURNT SUGAR CAKE.

One and one-half cups of sugar, one-half cup butter, creamed; three eggs, one cup water, two cups flour, one and one-half teaspoons vanilla, one and one-half teaspoons baking powder, two tablespoons burnt sugar. Bake in layers. Icing: Two tablespoons sweet cream and enough powdered sugar to make into a paste. Flavor with vanilla and one tablespoon of burnt sugar.

AMONG OURSELVES.

What a pleasure it would be to all of us if we would "let the sun shine in" a little more openly on what we are doing in our own neighborhood corners of life! What a help, what an encouragement it would be to others who are "thinking." This letter from "A Member" is plain enough, simple enough, to let us all know the value of such "get-together" associations. Meet just as women, wives and mothers. How you can take much of the narrowness, the littleness, the cramped feeling out of life when you take part in such meetings as are here told about:

I should like to tell the Home circle what a nice time the rural ladies of this neighborhood have. Last spring we organized a ladies' club (married ladies only) and called it the "So and Sew Club." We met every two weeks (in the afternoon) with a member and took our mending and had a social afternoon. No fees are charged. Light refreshments are served. We have a president and a secretary. For variety we often have speaking, reading, talks on household economy, care of children and one afternoon we all took our recipe books and exchanged recipes. Everyone enjoys it. We have about thirty members. All gossip is strictly prohibited. We are dubbed the "old hens" by the male men, but we enjoy our meetings so much more.

May we not look forward to more reports of meetings of this character?

Elizabeth has been reading. And she seems to read with a purpose that is worth while. One may read to pass the time, even to "kill" time, but is not one killing one's self when committing such murder? Read to know what life is by learning what others have experienced seems to be the thought in Elizabeth's mind. She says:

Just a word about "The House of Mirth" and books of its kind. I think any girl of sixteen is old enough for just this kind of reading—books that will teach life as it is and describe man as he too often is. So many lives are spoiled because mothers keep their girls too innocent of the stern realities of life. The only criticism I have to make of the book is that I should much rather the author had stated emphatically that her heroine accidentally took an overdose of her especial drug than to leave one in doubt; but otherwise it is a great novel.

We have but few "book hours," so it behooves us to choose well the volumes that occupy these hours.

And before we close, here is Mrs. E. L. Jenkins, who has a little story for the wee ones about something that happens too often, I'm thinking. How nice to have the happy "second thought:"

My children, dear, I'll tell you something shocking. Dear old Santa Claus forgot someone that really ought to

have a stocking. This happened last year, as I remember well; I felt so bad about it, how bad I really cannot tell. But there's some excuse for Santa Claus, he has always such a load, and besides you know mama says he does not come to grownup folks. I suppose she's right, but really I think the mamas ought to have something, because they are so good, you know. I'll tell you what I did. I had some pennies all my own to spend for Christmas things. I went down town and bought some candy and other things. Then I took my mama's stocking and quietly crept upstairs and just filled that stocking right up to the brim. Then I thought I'd wait till night, but oh, the day looked so long. When I saw my mama taking her after-dinner nap, sitting in her old arm chair, I just crept up quietly and put that stocking in her lap, and when she opened her eyes and looked at me I saw she was quite surprised, so I just had to tell her that I was her Santa Claus.

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

LEARN THIS BY HEART.

Do not look for wrong and evil;
You will find them if you do.
As you measure for your neighbo
He will measure back for you.
Look for goodness, look for gladness;
You will meet them all the while.
If you bring a smiling visage
To the glass, you meet a smile.
—Selected by Sally.

ROLL OF HONOR.

Anne of Green Gables	Evening Star
Atlantica	Little Missy
Bernette	Lively
Brown-eyed Beauty	Miss Hap
Callie	Red Ruby
Charmion	Riches
Dante	Tavino
Dollie	Viv
Eden	Wee Wifie

Silver Badge—"Iowa" is the first to win one.

Pansy Badges—Dante, Ella, Islie, Royal Blue and Shipmate are the winners this week, and are now in line for the winning of a silver honor badge.

No address—Helen McGuire.

Not original—Lilioke, Thora.

Written on both sides—Hattie Green, Prairie Queen, Snowdrop.

None of these are counted on the roll of honor. Try again, young folks.

AIN'T IT AWFUL?

A teacher was instructing her class in the right usage of words. It was a tedious task, till at length she wrote the following sentence on the blackboard: "I ain't been late for school yet this year." Turning to her class, she asked: "What is the matter with that sentence?" There was silence over the class till one boy, who seemed to be getting something out of it, raised his hand. "Willie," said the teacher, "you may tell me what is the matter with that sentence." "Ain't is in it, and ain't ain't no word."—Me, age 15.

The First Indians.

Once upon a time there was a fairy named India. He was a painter. One day he thought he would go out for a walk, and he took some red paint along so if he should find some red leaves he would paint a picture of them. As he was walking along he saw three little children playing. He climbed up in a tall tree and waved his wand until the children had fallen into deep sleep. Then an evil thought came into his mind, and he climbed down the tree and painted each of the little children red. Just as he had finished the king of fairies rode up and saw what India had done. He gave him a severe whipping, but that would not take the paint off the little children's faces, so after that they were called Indians—Bernette, age 11.

Moving Troubles.

My father built a new house this summer. It is thirty-two by thirty-four. There are seven rooms down stairs and there are four bedrooms up stairs, and there is a closet for every room, and then there is the hall, so there are nine rooms up stairs. There is a large garret. It is a fine play room. There is enough room to store away a lot of things. We used part of the old house to build the new one. This summer we had to live in a two-room house. There was the old kitchen and one bedroom up stairs left. We used the bedroom up stairs to sleep in for awhile. And then there was a wind storm came up and shook the up stairs so badly we were afraid the house would go over. And then after that nobody would sleep there because they were afraid that there might be another wind storm come up. So we moved down to the corn crib. We had a lot of trouble down there, too. There were quite a few electrical storms as we were sleeping down there. Every time there was one came up we always had to get up and fix the holes up so we would not get a bath. Sometimes we got a bath anyway. Then after the house was plastered and dried we slept down in the new house, and on September 2d we moved in to stay. It took us a long time to get it straightened up. We are living in it now. I like the new house better than I did the old one.—Atlantica, age 12.

The Census Taker.

(A dialogue.)

"How do you do, Mr. Watson. How do you feel today?"

"Oh, just tolerable, thank ye."

"Nice weather we're having, isn't it?"

"Pretty fair. Pretty fair. Can't complain."

"Mr. Watson, I presume you know I'm a census taker, and as such, have come to take your census. Of course, you understand the many varieties of questions. You had your census taken ten years ago, did you not?"

"Wall, now, let me see. I believe I did, but I declare to goodness gracious I forgot what the man did. Are you the same man?"

"No. You understand a census taker records a person's age, number of children, etc. How old are you, Mr. Watson?"

"None of your pesky business."

"But, my dear sir, you must tell. It is an important duty which must be executed. Please tell me your age."

"Well, I'll be hanged! Can't you see I'm no spring chicken?"

"That isn't the question, Mr. Watson."

"Being's you're getting rather hot

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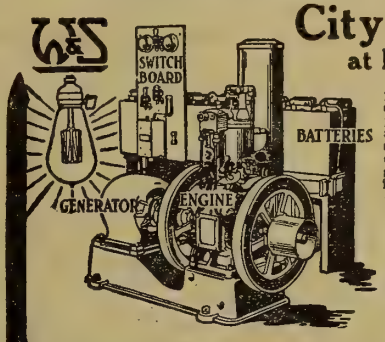

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under the collar, I'll tell you. I'm sixty-seven come this next spring."

"How many children have you, Mr. Watson?"

"Let me see. Haven't got any 'cept one. All the rest are married."

"How many have you in all?"

"Five."

"Names and ages, please."

"Wall, now, if that ain't just too funny. I supposed every critter in town knew my children."

"Remember, sir, I'm a stranger here. I would be very much pleased if you would answer my questions."

"Certainly, certainly, of course. No offense was meant. Harry is twenty-one, Sally is twenty-six, Jane is thirty-five, Willie, he's only forty, Mary is forty-five."

"Their surnames, please."

"Watson, Black, Brown, White and Davis."

"Your wife's age, Mr. Watson?"

"Now, don't you be askin' me such a question. Ever' time I say anything to her about her age she gets terrible mad. Take my advice and don't ask her."

"How many chickens have you, Mr. Watson?"

"Haven't got a single chick. They belong to my wife."

"Say, is your wife at home."

"Yes, siree. Don't catch her away from home without me. She's afraid."

"I'm not interested in Mrs. Watson's fears. Please be so kind as to ask her all those questions. I'll be back tomorrow."

(Exit census taker.)

"Say, Maria, come out here."

"Well, what's wanted?"

"That census fellow was here."

"I don't care."

"He was asking all sorts of questions about you."

"What could he possibly want to know about me?"

"He wanted to know how many chickens you had."

"I know I have a fine bunch of chickens; but I didn't know the government was interested in them. What else did he ask?"

"He wanted to know your age."

"Want's to know my age. Lots of his business, ain't it?"

"Yes, yes, of course. That's just what I told him, but he said he must find out, as the government wanted to know."

"Well, why didn't you tell him?"

"Cause I didn't know. He'll be back tomorrow."

"When he comes you tell him I'm not a day older than I really am."

"You can tell him that yourself.

"I shan't have a word to say to him. The idea!"

"Well, we'll see about that tomorrow."—Socrates and Themistocles.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER Lesson III. Genesis III., 1-12; 22-24 January 19, 1913

MAN'S FIRST SIN—THE STORY.

Genesis "Third" is a target fairly shot through, not only with the darts of a vulgar infidelity, but the well-aimed arrows of a scholarly criticism. After all, however, the chapter is unharmed. It stands alone in literature. It is helpful toward the solution of an occult problem—the origin of evil. By some it is accepted as a literal history; by others as a vivid pictorial and poetic description of man's early struggle with evil. For purposes of interpretation, the former view is here followed. Adam and Eve are represented as nobly endowed. They had a happy environment, and were under daily tutelage of their Maker. But they were on probation. In Eden the problem was solving whether they would persist in choosing to obey God or not. A test was given. It was simple, but adequate. Of the fruit of one attractive tree they were forbidden. The prohibition was so explicit, peremptory, and oft repeated, that inadvertence was out of the question. "Thou shalt not!" was fairly written upon the leaves of the tree. Persistent abstinence was a visible sign to God and angels of their conscious loyalty to God. Under this Adamic covenant God stood ready for His part to supply grace sufficient; but Adam, on his side, must choose to keep obeying God. We have no means of knowing how long the happy Eden life continued. The true idea of Adam's state is probably that which places him midway between the savage and the sage. He was a laborer, but suffered not the excessive weariness incident to labor now. He was busy getting "dominion," subduing the triple kingdoms—earth, air, water, vegetable, animal, mineral. In the evening hour, when the activities cease and the human heart is most impressible, he enjoyed immediate communion with his Creator, who corrected his mistakes and inspired him with new courage. At length, at some period when man's tutelage was far enough advanced to make his chances for enduring the ordeal most favorable, a test was permitted. The outcome of the ordeal was not predestinated defeat. Adam had a good fighting chance. He might have persisted in his obedience toward God. He ought to have. The odds were not against him. He had had overmastering examples of God's goodness. He ought to have been loyal. An overweening vanity determined man to lift himself in the scale of being, even if he must needs make the staircase out of the broken commandments of a loving heavenly Father. The deed was done already in subjective intent, in the deliberate and pleasurable entertainment of the suggestion of doing it. Flesh and eye had already lusted, and pride had put the finishing touch. The manual act of reaching, touching, plucking, was only the objective complement of the mental determination, the other hemisphere of the black orb of sin which rolled on Adam. Their eyes were opened, but not to see themselves exalted to the lofty plane, but fallen below the plane on which they were standing before. The normal relation between soul and body was destroyed, so that the body ceased to be any longer a pure instrument of the spirit. So they were overwhelmed with their first sense of shame, and ceased to be like unconscious, unembarrassed children. Out of the shadows of Eden, in which, with a silly, ostrich-like instinct they sought to hide themselves, God called them. It was a fearful meeting. The reality of man's fall is evidenced by his changed being. The frankness of innocence is gone. When fairly cornered, with the historic cowardice of sin, he seeks to cast the blame upon the companion whom, up to that moment, he had loved devotedly and sheltered courageously, and indirectly upon the beneficent Being who had given her to him. Across the densest gloom of this shattered paradise God let one ray of heavenly hope fall aslant: "The seed of the woman shall bruise the serpent's head." The age-long strife just then beginning, with its varying fortunes, between the good and the evil seed, shall finally cease when the Man of Calvary puts his bitten heel upon the serpent's head.

The Teacher's Lantern.

Modernize this lesson. Translate it into the language of today. Every boy and girl and older person can be shown to be standing under a tree of test. Destiny is deciding now by one's attitude toward God. The chances of a happy outcome are better and worse than those of Adam. Worse because of an hereditary predisposition to a wrong choice. Better, because of the provisions of mercy. Where sin abounds, grace much more abounds. Even now God's voice is ringing, "Son! Daughter, give me thine heart!" One does not need to run the whole gamut of sin to be lost. Merely declining to obey God is enough to exclude one from His presence. Picture the approach of the first night after the exciting novelty of their experience was wearing away; the twilight

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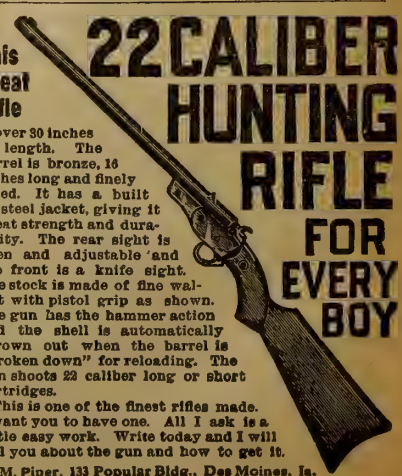

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hour when retrospection is natural; when one wants to be assured of some strong safeguard; just when Adam and Eve were feeling most orphaned, the Heavenly Father sought His erring children. He has been doing so ever since. So, if the sinner feels a quickening of conscience, a kindling of desire, it is God at work, and in the most opportune hour. It is the supreme dictate of practical wisdom to know one's opportunity, and improve it.

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5837 Lady's Empire Dress—Here is one of the most stylish models of the season. The dress has the fashionable front closing and the design is quite easy to carry out. The waist is made with removable chemisette and the skirt is cut in five gores. The collar and revers add charm to the garment and the pointed turned-up cuffs are a pretty feature.

The pattern, No. 5837, is cut in sizes 32 to 42 inches bust measure. Medium size requires 6⅛ yards of 36-inch material, ⅝ of a yard of 22-inch all-over and ⅝ of a yard of 24-inch satin. Price of pattern, ten cents.

5903 Lady's Dress—The lines of this stylish frock are excellent, though the model is a simple one. It has the fashionable and convenient front closing and is made with a three-piece skirt.

The pattern, No. 5903, is cut in sizes 32 to 42 inches bust measure. Medium size requires 6½ yards of 27-inch material and 2⅜ yards of plaiting. Price of pattern, ten cents.

5991 Girl's Dress—Here is a dainty little frock for the small girl, and one quite easy to make. The garment closes at the right side of the front and has removable shield. The skirt is a three-piece one. There is a pretty sailor collar. The cuffs are edged with contrasting material and the dress is further trimmed with buttons.

The pattern, No. 5991, is cut in sizes 6 to 12 years. Medium size requires 3¾ yards of 27-inch material or 3 yards of 36-inch material. Price of pattern, ten cents.

5987 Lady's Waist—A delightfully chic waist design is here shown and one suitable for wear with separate skirts or for development as part of a complete costume. The waist has a deep yoke outlined with piping of contrasting material. The new-style sleeves with double frill at cuff is noted. Silk, madras or serge can be used to make this waist.

The pattern, No. 5987, is cut in sizes 32 to 42 inches bust measure. Medium size requires 1¾ yards of 36-inch material and ½ yard of 22-inch all-over. Price of pattern, ten cents.

5928 Lady's Waist—Here is a delightful waist model that may be developed for separate wear or as part of a complete costume. The garment may be made with Empire or regulation waist line and with long or short sleeves. The draped effect at the front is quite stylish. The big collar and the turned-back cuffs are fashioned of all-over.

The pattern, No. 5928, is cut in sizes 32 to 42 inches bust measure. Medium size requires 3⅛ yards of 36-inch material and ¾ of a yard of 22-inch all-over. Price of pattern, ten cents.

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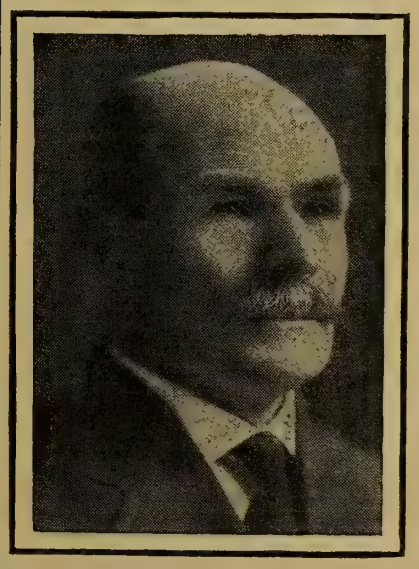
WINTER LIVE STOCK MEETING SCHEDULE.

Stephen A. Baird, a promienet Waukesha county dairyman and one of the leading stockmen of the state, has been added to the Wisconsin Farmers' Institute corps. He will represent the Wisconsin Live Stock Breeders' Association and will attend as many as possible of the institutes to be held this winter for the purpose of encouraging the production of more and better live stock. During the month of January he has been scheduled to speak at Greenwood and Waupaca on the 21st and 22d, at the town of Hull and Withee on the 23d and 24th, at Iola and Stiles on the



STEPHEN A. BAIRD.

28th and 29th, and at Pulaski and Welcome on the 30th and 31st.

There is not a state in the Union which is better adapted by climate and soil to the raising of live stock than is Wisconsin and none are as conveniently located between the great American markets for live stock and live stock products. As a producer of milk and milk products and a close observer of market demands and familiar with Wisconsin's unsurpassed resources, Mr. Baird is convinced that the great majority of Wisconsin farmers should raise bred-for-production live stock. As a representative of the Wisconsin Live Stock Breeders' Association he will urge the farmers of the state to raise live stock of high production. To own dairy animals which can produce the most milk and butter fat, sheep which will supply the market with the best wool and mutton, hogs which will dress the most pork of superior quality, beeves which will cut up into the most and best beef and horses which will have the maximum pulling power, should be the ambition of every Wisconsin stockman.

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People's Popular Monthly

Des Moines, Iowa

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Ill., January 10th.—Week-end tone of the bovine and porcine markets are suggestive of some rather hard sledding for the selling interests if receipts come up close to the expectancy of buyers. This Friday's trade in cattle was anything but lively and at the low point of the week. Quality of the offering was of a sort depressing to the spirits of buyers, the run consisting mostly of ordinary classes that were made to appear even worse by reason of many of them having been delayed en route owing to bad weather, but the leading factor in influencing the trade to lower levels was found in the report reaching buyers' ears of extensive ordering of cars to load for next Monday's market. These reports were especially numerous from Iowa shipping points and suggest that many are about to follow the custom of shipping freely following the first bad storms of winter. They led some on the buying side to predict a crop of 30,000 cattle here for next week's opening session. The present weakened condition of the trade, however, may discourage the loading of much stock that would have been put over the wheels had the market held the mid-week basis. Weather conditions the past week are also expected to expand the marketward movement of hogs temporarily. Wintery weather has materially decreased the good profits that have recently been made in converting corn into pork. In any event, the fact that bad weather had been so long delayed this winter probably means that there will be a heavy proportion of heavy hogs in the run and big hogs are now under the ban. Packers are now making as little lard as possible, but are cutting hogs with a view to making maximum quantity of meat. They are expecting the early arrival of plenty of 350 to 400-pound hogs carrying all the lard they need. Live muttons have had a sensational advance this week, soarinng to the highest levels for January in trade history. Some reaction is not improbable, as such ovine stock as has been running in cornfields and not already shot to the shambles is pretty sure to be brought marketward by the high prices current and present condition of stalk fields, but many are under the impression that farmer feeders have already cleaned up to such an extent that a big run now is improbable, as big regular feeders in corn-belt territory are imbued with bullish sentiments and will market conservatively. Some Colorado lambs are in sight for the coming week's trade.

Receipts this week at Chicago have increased about 9,000 cattle, 20,000 hogs and 14,000 sheep over marketings for the opening week of the new year, but have fallen about 2,500 cattle, 20,000 hogs and 20,000 sheep short of the same week last year.

The week's trade in beef steers has been a very uneven affair, starting with a decline for the medium and heavier classes of cattle, recovered fully by Wednesday and turning downward again the last half of the week to a point 10 to 15 cents lower than a week ago. Light classes of beef steers sold higher during the first half of the week and have since merely lost most of their bloom, closing a shade better than a week ago. Best ripe 1,470 to 1,643-pound beeves sold during the fore part of the week up to $9.40, against a $9.60 top the week previous. Most of the strong weight steers coming are of a plainer kind than a few weeks ago and are not meeting favor, yet market conditions of forty to fifty days back have been reversed and weight is no longer a credit to a steer at the yards, even where quality is not lacking. As anticipated, a slice of $1 to $1.50 was quickly taken off top classes of cattle as soon as the Christmas demand for such was over, and now a narrowing of more than $2 in the price range of one month ago is shown. Only something of extra class and ripeness can now make $9.25, as against $11 to $11.25 as the top prices paid the first half of December. An unprecedented mid-winter demand for feeders, too, has forced the prices of all light classes of beef steers up about 50 cents per hundredweight, compared with a month ago. Unfinished cattle are now relatively much higher than finished stock, and an actual difference in real value, as based by normal trade conditions of from $1.50 to $2 per hundredweight, exists between the classes of steers now selling around $8 to $8.25 and the goods it takes to make $8.75. A spread of from $7.50 to $8.60 has taken the bulk of this week's supply. Quotations:

Prime steers, 1,450-1,700 lbs.	$9.00@9.35
Choice steers, 1,230-1,400 lbs.	8.35@8.90
Good steers, 1,100-1,300 lbs.	7.75@8.25
Plain fair beef steers	7.20@7.75
Fancy baby beef yearlings	8.60@9.00
Good to choice yearlings	7.75@8.50
Medium to good yearlings	6.85@7.65
Common to fair yearlings	6.40@6.80
Inferior steers, 850-950 lbs.	6.00@6.40
Common steers, 750-850 lbs.	5.80@6.20

Feeding cattle buyers are paying about as high prices for thin steers as have ever been recorded and prices for the last three weeks have been higher than ever before at this season of the year. Some mixed lots of stocker and feeder stuff as thehy arrive from the country are being picked up by yard dealers as much as 15 to 25 cents lower than early this week, but a search warrant is needed to detect any lowering of their prices for shaped-up lots.

Anticipation of spring scarcity is one incentive for mid-winter purchasing at current high rates, abundance of feed that if not fed to live stock will be waste next spring is another. A famine market will be needed when they return if the feeder is to be let out whole, but there is general expectancy of a gap in both fat and feeder cattle supply next summer and many light cattle are being laid in for the purpose of unloading them when that gap develops. The condition illustrates how close to age the country's cattle supply has been consumed. Feeder buyers have been able to acquire the title to very few good-weight feeders recently and any 1,000-pound weights of any class that have gone back to the country have cost upward from $7.40, a breedy 1,100 to 1,200-pound sort being quotable up to $8.75 or higher, where decent flesh in combination with quality is shown. In the lack of such kinds little well-bred steers of 525 to 700 pounds are selling as high as $7 to $7.40, while $6.25 to $6.85 stuff is only of medium stocker class and $5.25 to $5.75 grades are trashy. Quotations:

FEEDERS.

Selected, 1,000-1,100 lbs.	$7.40@7.85
Fair to good, 800-1,000 lbs.	6.25@7.25
Plain to good light	5.40@6.15
Feeding heifers, poor to good	5.00@5.40

STOCKERS.

Selected, 550@700 lbs.	6.90@7.35
Good straight lots	6.40@6.90
Fair to good, 500@650 lbs.	5.85@6.40
Common to plain mixed	5.00@5.75
Heifers, common to good	4.50@5.50

Good to choice grades of fat cows and heifers have slumped off about 10 to 15 cents from prices of a week ago and are fully 15 to 25 cents lower than the high spot last Wednesday, but canners and cutters, supply of which has been light, are fully 15 cents higher than late last week. A prime sort of fed heifers is not quotable up around $8, but few are selling above $7.35, most of the beef heifers from $5.60 to $7, and fat cows largely from $5.30 to $6.50. Below the $5.25 line the trade is in medium classes of stalk field stuff and canners and cutters, most of the good cutters selling at $4.25 to $4.60 and canners of good class up to $4, only old shells at $3.25 or lower. Bulls have receded 15 to 25 cents in value during the week, very good weighty bolognas closing around $5.50 to $5.60, inferior light stock bulls and cannery stuff from $4.75 down and most beef bulls upward from $6, an occasional prime individual up to $7.25 or better. Selected lots of 125 to 150-pound veal calves are selling at week-end up to $10.75, bulk of the 100 to 115-pound weights of fair to good class at $9.75 to $10.35, and some big-weight choice heavy calves up around $8 or better, with some fancy Angus stock calves going as high as $7.75, though most of the good stock calves now sell at $6.50 to $7. Quotations:

BEEF COWS.

Choice to prime fed cows	$6.25@7.59
Good to choice cows	5.60@6.20
Fair to good cows	5.15@5.60
Inferior butcher cows	4.60@5.10

CANNERS AND CUTTERS.

Good to choice heavy cutters	4.30@4.60
Fair to good light cutters	4.00@4.20
Fair to good canners	3.50@4.00
Poor to fair canners	3.20@3.40
Old, thin, weak shells	2.09@3.15

HEIFERS.

Choice to prime heifers	7.10@8.10
Good to choice fed heifers	5.90@7.00
Fair to good grass heifers	5.25@5.85
Common to fair heifers	4.50@5.10

BULLS.

Good to choice bolognas	5.60@5.75
Light and medium bolognas	5.15@5.50
Feeding bulls	4.85@5.25
Canner and poor light	4.25@4.85
Good to choice butchers	5.80@6.15
Choice to fancy beef	6.25@7.40

VEAL CALVES.

Good to choice vealers	10.00@10.75
Fair to good veal stock	8.75@ 9.75
Strong weight vealers	6.75@ 8.50
Good to choice stock calves	6.00@ 7.00
Inferior to fair heavy clvs.	4.25@ 5.25

An increase of about 60,000 hogs is shown in the aggregate marketing of hogs at eleven points during the first five days this week over like period of the week previous, the gain being practically all at western markets and 20,000 of it at Chicago, with outgoing shipments from this market totaling practically the same as last week. An increasing proportion of fat, heavy hogs in the run and centering of demand on light and butcher weight classes have been prominent features of the week's trade and further discrimination against the big weights in favor of the grades that go largely into fresh meat channels is promised. The market closed in bad shape today at a 5-cent decline from Thursday and 10 cents lower than today's opening sales on shipping and speculative account, with heavy packers selling off 15 to 25 cents from a week ago and whole loads of 400 to 475-pound sows down to $7.15 to $7.25, though in light stuff practically nothing above pig weights sold below the latter figure, and most of the good pigs from $7 to $7.40. Prime heavy and medium-weight shipping classes sold up to $7.60 early, but $7.50 bought the same kind late and such closed about 10 cents lower than a week ago, while light and light mixed were within a shade of last week's prices. Bulk of the entire supply sold from $7.35 to $7.55, against $7.45 to $7.60 a week ago. Quality is running good and an innreased marketing is sighted for the coming week. Eastern shippers are now taking about 35,000 weekly from this market and broadening of that outlet will be needed to maintain current quotations, which follow:

Buk of sales	$7.35@7.55
Mixed, 215-250 lbs	7.30@7.45
Mixed, 170-200 lbs	7.30@7.50
Medium weights	7.40@7.50
Light butchers	7.45@7.55
Heavy butchers	7.50@7.60
Light shipping	7.50@7.55
Heavy shipping	7.45@7.60
Heavy packing	7.15@7.35
Rough heavy packing	7.00@7.15
Throwout packing sows	6.60@7.00
Fair to choice light	7.35@7.50
Light-light, 135-155 lbs	7.25@7.50
Pigs, good to fancy	7.00@7.50
Pigs, inferior to fair	5.75@6.90
Boars, poor to good	3.00@4.25
Stags, subject to dockage	7.65@8.15
Government throwouts	3.00@4.50
Government pigs	1.00@2.50

Light receipts in the East, moderate runs west and a very healthy dressed market have caused a sensational advance in live muttons this week, the market gaining strength every day and closing at the high point of the week, season and for all time as concerns a January trade. The bulge was one that the trade has long seen coming and as soon as the market was passed the holiday season handicaps. Feeders are being forcibly reminded that feeding ovine stock bought last fall was well worth the money it cost and those who failed to get in before the supply was exhausted are nursing red-eyed regret. Practically everything that killers are buying in the sheep house is 75 cents or more per hundredweight higher than a week ago, numerous light, medium and heavy lambs and some heavy ewes showing as much as a dollar advance.

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Room 4, Bee Building, Omaha, Neb.
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315 Jackson St. St., Paul, Minn.
or address Supt. of Immigration, Ottawa, Canada.

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212 acres, 10-room house; 4 barns, 36x50, 30x50; 25x50, 25x30; large henhouse; tracks for hay forks in all barns; watered by wells, springs and creek; silo, 150 fruit trees, insurance on buildings, $3,000; school, church and creamery 1 mile; ensilage and straw. All for $4,000, ¾ cash balance, 5 per cent interest. Must go at once. You buy direct of owner. No fake business with us.

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FOR well improved 200 acres, 3 miles from a good town in Redwood county, Minn. Terms one-third of crop and $3.00 per acre for pasture and hay land. Also for well improved 320 acres 2 miles from Morgan, Redwood county, Minn. Terms $3 per acre cash. These farms are in the corn belt. No better farms in Iowa or Minnesota. Address **Farmers & Merchants State Bank, Morgan, Minnesota.**

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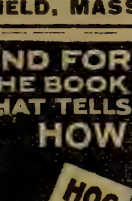

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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

INFLUENZA.

Would like to have some information in regard to a strange disease that has broken out among our horses. One of our mares took it first, starting first in one eye. The eye was swollen in the morning when we first noticed it and discharged a bloody matter. The next evening her glands were swollen and on the third day her other eye swelled like the first one. About the fifth day the swelling began to leave her head and her eyes opened and cleared up. Then she began to get restless and the disease seemed to go to her bowels. She had spells something like the colic. On the eighth day she died. She ate well until the sixth day and did not lose flesh. Fifteen days later a colt took the same disease, but only one eye is swollen and the glands are swollen on one side. The veterinarian whom we called does not know what the disease is, but is doctoring for eye and throat trouble. What would it cost to get the state veterinarian and how should we proceed to get him?

The disease probably is that form of influenza commonly called "pink eye" or "epizootic" and it should prove responsive to intelligent treatment by a graduate veterinarian. It is the duty of the state veterinarian to investigate an outbreak of contagious disease, free of charge; but we doubt if he will feel justified in investigating cases such as you describe. You might, however, send him a description of the cases experienced to date, and especially so if the disease is becoming prevalent in your district. Meanwhile isolate the affected colt and clean up, disinfect and whitewash the places where the sick animals have been.

SWELLING.

About two months ago I noticed an enlargement of the cords on the sides of neck in front of tip of shoulder blades on my chestnut sorrel mare. This does not seem to be sore to press upon, but is soft. It does not increase in size. The mare is in foal and in good flesh, weighing 1,500 pounds.

Do not give severe treatment of any kind and do not use the knife. The collar no doubt has caused the puffs and she should be rested for a month or two; during which time rub the places two or three times a week with iodin ointment and on other days massage thoroughly, using a little sweet oil on the hands.

HYDATID.

Please tell me what is the reason for hogs holding their heads crooked and letting one ear hang down. I have been feeding oats, barley, corn and stalk fodder, also some shorts in swill. I penned them up and gave them special care for a month, but it did no good.

The cause is the presence of a clot, or effusion, or abscess on the brain; or there may be similar pressure and disturbance from the presence of cysts, called hydatids, which are the cystic form of a tape worm. There is no cure. It also may be stated that a blow on the head might lead to similar symptoms.

CHOLERA.

I have a few fall pigs that have been coughing for awhile and one died yesterday, although he seemed in perfect health up to that time, excepting the cough. His breast and belly were of a pinkish blue and he did not get stiff after being dead, giving off an offensive odor. They have had corn all along, but did not seem to grow much. Have had plenty of exercise and water.

We suspect that cholera killed the pig and if that is so the remaining pigs should be vaccinated with preventive serum. It is possible that some other disease is present, but without an investigation and post-mortem examination we are unable to give a confident opinion on the case.

Of the lumber cut of Canada for 1910, amounting to about 5,000,000,000 feet, one-twentieth consisted of hardwoods, valued at less than $5,000,000, while the value of the hardwoods imported into the Dominion exceeded this sum by 50 per cent. It would seem that Canada is becoming more and more dependent upon the supply of hardwoods from the United States.

Poorly Mixed Concrete Is Worthless

Cement cannot be thrown together with sand and stone in any old way and good concrete be secured—a fact many farmers have learned to their sorrow.

We have for the past decade been building a hand batch mixer for the individual use of farmers and small contractors.

This machine is simple, strong and durable throughout.

We sell it under an ironclad guarantee to return the money if after a thorough trial it has not proven entirely satisfactory. It does the work swiftly and satisfactorily.

We make a complete line of mixers from this size up to the largest used by contractors.

Send for catalog and prices.

Iowa Foundry & Mfg. Co.

Fort Dodge, Iowa.

Traub's Sanitary Collar Pad

SEE that pad resting in the hollow of the shoulder, the old-fashioned pad does not fit the collar to the neck. Traub's sanitary collar pad fits snugly to the collar bone, thus distributing the draft equally. It is filled with granulated cork and will not get hard. It is the lightest and coolest pad made. It will prevent sore shoulders and sweeny. Don't fail to write for circulars explaining this wonderful invention at once.

Traub's Sanitary Collar Pad Co., Mackinaw, Ill.

GET RID OF

Worms and Bots

You can remove every one of them. We guarantee to kill and bring from the body, dead, in from 18 to 24 hours, all pin worms and bots, with the safe and sure remedy.

NEWVERMIFUGE

Absolutely harmless. Can be given to mares in foal before the eighth month. Horse owners write us that Newvermifuge has removed from 500 to 800 bots and worms from a single horse. An animal that is wormy can't help but be ugly and thin. If your horses are troubled with worms send us your order today.

6 Capsules $1.25. 12 for $2.00. Postage paid.

Farmer's Horse Remedy Company, Dept. C-5

592 7th Street, Milwaukee, Wis.

Don't Have a Blind One

If Your Horse Has Eye Troubles Use **"VISIO"**

An Absolute Cure For MOON BLINDNESS

(Opthalmia) Cataract and Conjunctivitis

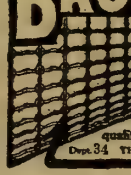
Shying horses all suffer from diseased eyes.

"Visio" will convince any horse owner that it will absolutely cure defects of the eye, irrespective of length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "Visio" under our *guarantee* to refund money if it does not cure.

$2.00 per bottle, postpaid on receipt of price.

VISIO Remedy Assn., 2458 Calumet Ave., Chicago, Ill.

BROWN FENCE



For all purposes. Direct from factory, freight prepaid.

Bargain Prices—13c per rod up

Get our new fence book before you buy fence for Horses, Cattle, Sheep, Hogs, Poultry, Etc.

Also Lawn Fence and Gates

We save you *big money*—give you highest quality. Mail postal now for Big Fence Bargain Book

Dept. 34 THE BROWN FENCE & WIRE CO., CLEVELAND, OHIO

CLEAR-EYE

FOR HORSES' EYES.

Best remedy ever discovered for Moonblindness, Pink-Eye, Cataracts and all ailments of eyes of animals. $2.00 a bottle. Guaranteed. Write for our free horse book, "Forty Facts for Horse Owners."

THE LAKESIDE REMEDY CO.,
5428 Calumet Ave. - Chicago, Ill.

THE GREAT FEVER REMEDY

SANKO NEWTON-IOWA

for Swine, has checked thousands of cases of swine disease. Protect your swine as thousands of others are doing. If you have any sick hogs write at once for full particulars and terms to

THE GIBFORD CHEMICAL CO.,
NEWTON, - - IOWA.

Dobry's Hog Remedies

POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof before the winter sets in. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd.

John Dobry Mfg. Co., Cedar Rapids, Iowa.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Feb. 12, J. V. Arney, Leon, Iowa.
Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Jan. 28, O. M. Healy, Bedford, Ia. (sale at Marshalltown, Iowa).
Feb. 12, White & Smith, Chicago, Ill.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 14, Chas. Slepicka, Tobias Neb.
Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 21, F. A. Schaeffer, Raleigh, Iowa (sale at Estherville, Iowa).
Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Feb. 14-15, Combination sale, Grand Island, R. D. Mousel, Mgr., Cambridge, Neb.
Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 20, A. A. Hager, Avoca, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Feb. 6, Registered and high grade, A. J. Podendorf, Logan, Iowa.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Feb. 5, D. D. Case, Giltner, Neb., and L. M. Phelps, Trumbull, Neb. (sale at Hastings, Neb.)
Feb. 20, Nuckolls County Horse Breeders' Assn., Percy Baird, Ruskin, Neb., Sec., sale at Lincoln, Neb.
Jan. 22-23, Breeders, sale, C. F. Way and H. K. Frantz, Mgrs., Lincoln, Neb.
Mar. 12, L. H. Luckhardt, Tarkio, Mo.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Percheron and Belgian Horses.

Jan. 14, Thos. and James Woulf, Streator, Ill.

Poland China Swine.

Jan. 29, W. M. Wright & Sons, Allen, Neb.
Jan. 30, O. J. McCullough, Clarks, Neb., and L. W. Hamilton, Kearney, Neb. (sale at Central City, Neb.)
Jan. 30, C. W. Schram, New Castle, Neb.
Jan. 30, E. E. Farver, Ocheyedan, Iowa.
Jan. 30, G. A. Kissinger, Milford, Neb.
Jan. 30, B. T. Wray & Sons, Hopkins, Mo.; A. O. Stanley, Sheridan, Mo.; V. O. Hunt, Ravenwood, Mo., at Sheridan, Mo.
Jan. 31, Sam Tillinghast, Peterson, Ia.
Jan. 31, Frank Roberts, Earlham, Iowa.
Feb. 1, N. B. Freeman, Kearney, Neb.
Feb. 1, Podendorf & Rainier, Logan, Ia.
Feb. 3, Carl A. Rosenfeld, Kelley, Ia.
Feb. 3, Williams Bros., Villisca, Iowa.
Feb. 4, L. P. Martiny, Chippewa Falls, Wis.
Feb. 4, W. H. Barr & Sons, Villisca, Iowa (sale at Red Oak, Iowa).
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 4, Merzie Estate, Hampton, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 5, Williams Bros., Villisca, Iowa.
Feb. 5, J. M. Glasier, Algona, Iowa.
Feb. 6, H. Fesenmeyer, Clarinda, Iowa.
Feb. 6, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 7, G. W. Sefrit, Lucas, Iowa.
Feb. 7, J. O. James, Braddyville, Iowa.
Feb. 8, J. T. R. Nash, Minden, Neb.
Feb. 10, A. D. Jones, Dunlap, Iowa.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 11, Henry Dorr, Remsen, Iowa.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 12, M. F. O'Hern, Barnum, Iowa.
Feb. 12, Jas. Williams and Will A. Henry, Marcus, Iowa.
Feb. 12, D. C. Lonergan, Florence, Neb.
Feb. 13, L. B. Williams & Sons, Villisca, Iowa.
Feb. 13, W. A. Lingford, Dannebrog, Neb., sale at Grand Island, Neb.
Feb. 13, E. S. Barker, Doon, Iowa.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 13, H. P. Kuhl, Florence, Neb.
Feb. 14, J. M. Peery, Alvord, Iowa.
Feb. 14, Frank Owens, Council Bluffs, Iowa.
Feb. 15, C. W. Humerick, Atlantic, Ia.
Feb 15, Walker & Son, Fairbury, Neb.
Feb. 18, Jas. Cockerton, Whiting, Ia.
Feb. 18, G. J. Bloemendaal, Alton, Ia.
Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 19, Peter Mouw, Orange City, Ia.
Feb. 19, C. C. Polly, Whiting, Iowa.
Feb. 20, Ruebel Bros., Marathon, Iowa.
Feb. 21, W. J. Crow, Webb, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 21, R. W. Halford, Manning, Ia.
Feb. 22, W. E. Zimmerman, Neola, Ia.
Feb. 22, C. C. Ingram, Bloomington, Neb.
Feb. 24, J. M. Sheehan, Stuart, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa.
Feb. 26, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 26, Wm. Lentz, Ankeny, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa (night sale).
Feb. 27, R. R. Blake, Dallas Center, Ia.
Feb. 28, C. M. Pederson, Dunlap, Iowa.
Mar. 1, Fred Sievers, Audubon, Iowa.
Mar. 8, J. H. Healy, Manilla, Iowa.

DATES FOR LIVE STOCK SALES.

All Breeds of Draft Horses.

Jan. 28-29-30-31, C. W. Hurt, Mgr., Bloomington, Ill.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Jacks and Jennets.

Feb. 4, Platte Co. Jack Sale Co., J. B. Dillingham, Mgr., Platte City, Mo.
Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Duroc Jersey Swine.

Jan. 27, David Boesiger, Cortland, Neb.
Jan. 28, A. J. Duerr, Milford, Neb.
Jan. 28, Paul Mason and John Brackemyer, Morrison, Ill.
Jan. 29, E. E. Handley, Carroll, Iowa.
Jan. 30, Kuper Bros., Bellevue, Iowa.
Jan. 30, O. S. Larson, Logan, Iowa.
Jan. 31, W. H. Seddon, Persia, Iowa.
Feb. 1, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Ia.
Feb. 4, F. H. Dickey & H. S. Fain, Emmetsburg, Iowa.
Feb. 4, Geo. T. White, Dallas Center, Ia.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 4, Wm. Retzlaff, Bennett, Neb.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 5, Grant Lynn, Spirit Lake, Iowa.
Feb. 5, H. S. Allen, Chariton, Iowa.
Feb. 6, S. L. Weaver, Lake Park, Ia.
Feb. 6, J. C. Droz and Hanks & Bishop, Fairfield, Iowa.
Feb. 6, O. R. Stevens, Rippey, Iowa.
Feb. 7, Howard Gerlaugh, Osborn, O.
Feb. 7, J. Schmidt, Everly, Iowa.
Feb. 7, E. W. Davis, Glenwood, Mo.
Feb. 8, Swan & Ellis, Indianola, Iowa.
Feb. 10, R. Widle & Sons, Genoa, Neb.
Feb. 10, R. M. Skillen, Greene, Iowa.
Feb. 11, Waltemeyer Bros., Melbourne, Iowa.
Feb. 11, Fred Nelson, Lindsey, Neb.
Feb. 11, H. H. Shaw, Hebron, Neb.
Feb. 12, J. D. Isaac, Red Oak, Iowa.
Feb. 12, Economy Stock Farm, Shenandoah, Iowa.
Feb. 12, J. C. Theobold, Ohiowa, Neb.
Feb. 12, A. W. Lamb, Albion, Neb.
Feb. 13, C. H. Huffman, Scranton, Iowa.
Feb. 13, H. H. Koenig, DeWitt, Neb.
Feb. 13, A. R. Barnes, Petersburg, Neb.
Feb. 13, R. L. Comer, Carlinville, Ill., and W. H. & A. D. Van Meeter, Cantrall, Ill., sale at Pawnee, Ill.
Feb. 14, W. W. Scholes, Onawa, Iowa.
Feb. 14, Wm. Harding & Son, Brimfield, Ill.
Feb. 17, Bob Ewing, New Hampshire, O.
Feb. 18, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 19, D. Herr & Miller, Elida, Ohio.
Feb. 19, G. Van Patten & Son, Sutton, Neb.
Feb. 20, J. W. Storm, Seville, Ohio.
Feb. 21, Geo. Davis & Son, Milford, Neb.
Feb. 24, Jess W. Andrews, West Point, Ind., sale at La Fayette, Ind.

Chester White Swine.

Feb. 7, Chas. H. Murray, Friend, Neb.
Feb. 13, F. W. La Doux, Spirit Lake, Ia.
Feb. 19, G. H. Tutt, Marathon, Iowa.
Feb. 20, J. H. Stewart, Dickens, Iowa.
Feb. 27, John F. Holst, Jr., Denison, Ia.

Hampshire Swine.

Jan. 27, A. L. Goodenough, Morrison, Ill.
Jan. 28, Bollman & Sharpe, Coal Valley, Ill.
Jan. 29, Zehr Bros., Peoria, Ill.; L. C. Miller, Canton, Ill.; Geo. Lippert, Magnolia, Ill., sale at Peoria.
Jan. 30, Essig Bros., Tipton, Ind.
Jan. 31, Chas. E. Davis, Radnor, Ohio.
Feb. 1, G. H. Dodds, Kenton, Ohio.
Feb. 5, C. A. Brook, Washington, Ia.
Feb. 18, W. F. Davis, So. St. Joe, Mo.
Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

John Harms, Lohrville, Iowa, is offering a black Percheron stallion that weighs 1,950 pounds for sale in his advertisement that appears on page 53 of this issue of The Homestead.

R. M. Skillen, Greene, Iowa, announces a sale of Duroc Jersey bred sows for February 10th at his farm. He has a fine lot of sows and three good herd boars. Full particulars in later issues.

The advertisement of the farmers' forge outfit which will be found on page 14 of this paper is worthy of investigation because it presents to the farmer an opportunity to secure a farm blacksmithing outfit which cannot fail each year to pay its entire cost in the savings made in blacksmith work. A special winter offer is made good this month and next by which this forge may be obtained at a remarkably low price. For particulars concerning this special offer write for catalog No. 23. Address C. A. S. Forge Works, Saranac, Mich.

A splendid Polled Durham bull and one excellent young Short-horn bull can be bought right of W. H. Barr & Son, Villisca, Iowa, if taken soon. Now is the time to buy bulls and if any of our readers want them they had better write or go and see Mr. Barr at once.

Joe Egelhof, Cuba City, Wis., has some choice Chester White gilts that he is offering for sale in his advertisement on page 51 of this issue. These gilts are bred to Lewis B. 22617 and are due to farrow in March and April. If interested write Mr. Egelhof for prices.

O. R. Stevens, Rippey, Iowa, announces his annual public sale of Duroc Jersey brood sows for February 6th. Mr. Stevens has in his herd the descendants of Liberty Chief, Col. Gano and a lot of other high-class sires in which most good Duroc Jersey men are interested. Further announcements will appear in later issues of this paper.

E. J. Augspurger, Pulaski, Iowa, is advertising Poland China bred gilts due to farrow in April. These gilts are bred to a grandson of the noted boar, A Wonder. They are of the heavy bone, prolific kind and the low price of $25 to $35 each is quoted on them by Mr. Augspurger on page 39. When writing him kindly mention The Homestead.

F. J. Clouss, Barnum, Iowa, has some good young Red Polled bulls ready for service on which he will be glad to quote prices to anyone who can use a bull of the dual-purpose kind. His cattle rank well up among the good ones of this breed and these bulls are by good sires and out of the same sort of cows. His advertisement is on page 53 of this issue.

Sol Frank, Sioux City, Iowa, sells a good lot of bred Duroc Jerseys at his farm in North Sioux City on Friday, January 24, 1913. The farm is reached by taking a Pierce and Jackson car to Thirty-fourth Street and then walking west to the farm, about five or six blocks. Send for catalog if you have not one already and plan to attend the sale. Address, mentioning The Homestead, Sol Frank, Sioux City, Iowa.

Readers of this paper who are in search of Chester White sows should read the advertisement of E. J. Trumbauer, St. Charles, Iowa, which appears on page 51. That gentleman advises us that he has a choice lot of Chester White gilts bred to farrow in February, March and April. They are high-class animals and in order to sell them soon he will make some remarkably low prices. Write to the address named.

On January 25th, H. Gilbert, Perry, Iowa, will make a public sale of Duroc Jersey bred sows. Thirty particularly well-bred animals have been cataloged for this sale. While Mr. Gilbert does not have a large herd, he is paving the way to later success in numbers, as well as quality. Buyers will find his sale to be one at which bargains will prevail. Further information may be obtained by writing to H. Gilbert, Perry, Iowa.

The universal value which is now placed on cement as a material for the construction of farm buildings and the ease and cheapness with which concrete buildings may be obtained gives added interest to the announcement of the Universal Portland Cement Company on page 10. Almost any farmer may, during the winter time, manufacture concrete blocks for all kinds of farm buildings, doing the work at a time when he would otherwise have nothing to do and at an insignificant outlay of cash for the materials. A great deal of important information on the subject and facts which every farmer should possess anyway may be obtained from a booklet to be had free on application to Universal Portland Cement Company, 72 West Adams St., Chicago, Ill., or either of the addresses mentioned in the advertisement.

C. H. Porter, Eagle Grove, Iowa, is advertising bred gilts from his herd of Poland Chinas on page 48. These gilts will please you when you see them and will be profit makers when you buy them.

J. C. Porter, Ogden, Iowa, is offering some good bred Duroc Jersey gilts for sale at this time. Write him for prices and descriptions on them. You will be treated fairly. His card is on page 52.

Beltel Hansen, Alta, Iowa, has Poland China gilts of the big kind ready for sale at this time. Write him for his prices and descriptions of the stock he is offering. His advertisement is on page 48.

Parties who may need a hustling auctioneer for their winter sales should write J. R. Thompson, Merrill, Iowa. He has had experience both as an auctioneer and a breeder, and is thoroughly familiar with his work.

E. H. Kahl, Buffalo Center, Iowa, can supply some growthy bred Chester White gilts from the best lines of breeding and bred to good boars. Get your order in early, for these are choice and worthy the money asked for them. See page 51.

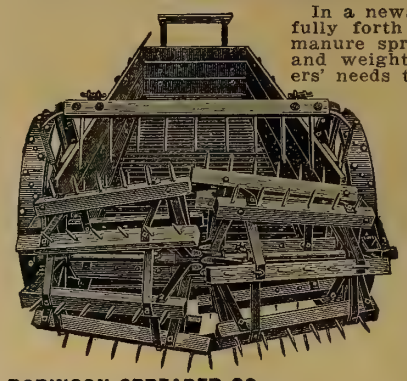
Some splendid Poland China sows are advertised for sale by E. F. Escher, Manning, Iowa, on page 48. He will not make a public sale and as he has sold his farm these must be disposed of at private treaty. Among these are ten to fifteen that are as good as will be found in any herd in the West. Were it not that he was leaving the farm these sows could not be bought at any price. It will pay anybody wanting good Poland China sows to write Mr. Escher or go and see these sows. Please mention The Homestead when corresponding with him.

J. C. Droz, Fairfield, Iowa, and Hanks & Bishop, New London, Iowa, will hold a combination sale in Fairfield on February 6th. They will sell fifty-five sows sired by some of the most noted boars of the breed and bred to the great herd boars at the head of these herds. Sows will be bred to Cherry Chief, Model Wonder and Proud Col., all of which have proven themselves sires of prize winners, and a few will be bred to Wonder's Model, the second-prize junior yearling at the Iowa State Fair, 1912. Keep this sale in mind and see the advertisement in the next issue of The Homestead.

Taylor & Jones, Williamsville, Ill., write: "We feel we were never in better position to please parties wanting good Percheron, Belgian or Shire stallions or mares. Our barns are filled with a choice lot of all the draft breeds, both sexes, and we invite inspection. We never had horses do better than ours have done this fall and winter and with our low prices and liberal guarantee we feel we can interest anyone wanting anything in our line. Write for our little booklet just printed. It has information of interest to all horsemen and especially to those who are planning to buy." See page 55.

J. C. Porter, Ogden, Iowa, advertises his Duroc Jersey hogs on page 52 of this paper. It is always a pleasure to recommend this gentleman and his stock to our readers because both are always satisfactory. Under recent date he writes as follows: "I have had a spendid trade this fall and winter from my advertisement in The Homestead. I sold the spring boars out in good season and could have disposed of several more. I am now offering for sale King Gano, sire Col. Gano, dam by a son of Claremont's Model. This boar is of March farrow and an extra strong pig with more length and bone than anything I have seen this year. He is not fat, but just in good, thrifty condition and is sure to be a good breeder. My gilts are doing fine. They weigh from 250 to 300 pounds. Ten of them are bred to King Gano and fifteen to R. J.'s Chief. I will price these gilts right, breeding and quality con-

The Spreader That Spreads.



In a newspaper advertisement we cannot set fully forth the merits and advantages of this manure spreader. Its size and style and width and weight make it more suitable to the farmers' needs than any other on the market. It has a capacity of 60 cu. ft. It is low and easy to load, the front and hind wheels track with each other and track with a farm wagon. Being narrow, it is handy to drive into a barn and easy to back into a shed. Its weight is 1,420 lbs. and two good farm horses handle it easily under all ordinary conditions. Its operating parts are simple, strong and serviceable, guaranteed to do the work a manure spreader is intended to do. The sectional cylinder rotates outwardly and spreads to the width of the wheel tracks. It is an ideal spreader. Your implement dealer should handle it. Write for our latest folder describing it. Address

ROBINSON SPREADER CO. - - - - - VINTON, IOWA

CAKE SACKS CAKE

WE sell you our choice Equity brand cottonseed meal and cake, cold pressed cake, at lowest prices. We buy your empty sacks at highest cash prices. We handle all feeds for the feeder. Address
FEEDERS SUPPLY CO., - - LIVE STOCK EXCHANGE, KANSAS CITY, MO.

CAKE——CAKE——CAKE

WRITE OR WIRE for delivery price. All Choice Cottonseed Products. Get sample of our Pea Size Cake, suitable for Sheep or Young Cattle. Address
HENSON COTTON OIL MILLS, - - 610-11 Live Stock Exchange, Kansas City, Mo.

sidered. For additional descriptions and prices write J. C. Porter, Ogden, Iowa.

Announcement is made that L. H. Luckhardt and a number of other breeders of Percheron horses, will make a public sale at Tarkio, Mo., March 12th. Additional information will be given concerning this Percheron sale in later issues of this paper.

The illustration in the Harley-Davidson Motor Co. advertisement on page 11 shows one of the reasons for the remarkable increase in the demand for motorcycles which is crowding the manufacturers to the full limit of their productions. Farmers in particular are finding the motorcycle to be a vehicle of convenience. Oftentimes there is demand for a quick trip to town or to the home of a neighbor and nothing can excel the motorcycle for this purpose. For descriptions of that advertised write to Harley-Davidson Company, 651 A St., Milwaukee, Wis.

E. W. Davis, Glenwood, Mo., will hold a dispersion sale of his noted herd of Duroc Jerseys on February 7th. This offering will include Model Queen 2d, the $750 Nebraska grand champion sow; Chief's Maid, the great daughter of Valley Chief that was the grand champion at Des Moines in 1912 and second in the same show in 1911; Ohio Queen, the great Ohio Chief sow that was third at Iowa and Nebraska in 1912 and fourth at Nebraska in 1911. The sale also includes the noted champion boar, Ohio Col., that has proven a great sire. There will be many other attractions in this sale, full particulars of which will be given in coming issues of this paper. Write for a catalog.

At a recent meeting of live stock men, which included also veterinarians of prominence in their profession, the statement was made that the foundation of all animal health was in sanitary conditions and surroundings. The importance of this subject gives additional strength to the statements made in behalf of Bacili-Kil, which is advertised on page 15. This preparation has remarkable value as a means of preventing a great proportion of the diseases affecting live stock as well also as the human family. A free sample of Bacili-Kil may be obtained by filling out the coupon in the advertisement and forwarding it to General Purification Company, 501 Pioneer Bldg., Madison, Wis.

Breeders of Poland China hogs who take the time to investigate records of the show ring and the pedigrees will appreciate the strong points in a litter of four pigs shown at the Des Moines state fair last fall where they gained the remarkable prestige of having captured second and seventh places in class for sows six months old and under one year, second as produce of sow, second as young herd, second as young herd bred by exhibitor and third as get of sire. The dam of this litter, Big Queen, was bred by Wm. Lentz, Ankeny, Iowa, whose public sale announcement will shortly appear in the columns of this paper. The blood lines most prominent in the Lentz herd are the same as those which produced the dam of the pigs in question.

It is always a pleasure to direct the attention of our readers to the announcement of the Overland car which appears in these columns from time to time. A very handsome and instructive advertisement of the Overland will be found on page 2 of the present issue of this paper. In this advertisement the remarkable statement is made that the manufacturers are prepared during the year 1913 to get out 40,000 cars. The aim is made to supply every Overland admirer a car and to do so at a cost which makes it easily as good a bargain as any automobile manufacturer can present. A big instruction book and descriptive catalog may be obtained free by writing to the Willys-Overland Company, Dept. 80, Toledo, Ohio.

In a recent letter from H. S. Allen, Russell, Iowa, he has the following to say regarding his forthcoming sale: "In calling attention to our brood sow sale which takes place at Chariton, Iowa, February 5, 1913, will say that breeders of Duroc Jerseys will see by looking over the list of sows and the boars they are bred to that it will be from a blood line viewpoint one of the greatest offerings to be sold this winter, either east or west. There are twelve sows bred to the old champion boar, Crimson Wonder Again. Among these are two daughters of Valley Chief, one daughter of Chief Select, one daughter of Defender, one daughter of Ohio Col., one daughter of Pride's Chief, one by Ohio Chief Again, three by Model Chief 2d, one by Chief's Model, one by Whitehall King, one by High Col. and two by Proud Col. There are twenty sows bred to Model Chief 8th. Among these are six sired by Crimson Wonder Again, seven sired by Crimson Chief Again, four by Proud Col., one by Col. Gano and one by old Advancer. We believe this offering has as much Ohio Chief blood as any offering that will be sold this winter, east or west. Model Chief 8th and Crimson Chief Again are both grandsons of Ohio Chief and many of the sows are granddaughters of his, and remember the Crimson Wonder-Ohio Chief cross is one of the very best ever made. Crimson Wonder Again has sired six state fair champions and no two of them out of the same sow. Proof that he is a sire of merit. He not only breeds quality, but size, too. Some of his daughters have weighed 810 pounds over the scales and he has sired many 900-pound boars. There are only a few sows in this sale bred to him and we seriously doubt if there will ever be another sow bred to him sold at public auction, as he is getting old. He has sired over 100 prize winners at the big state fairs. A postal card will bring you the catalog. It gives a list of the prizes won by the get of Crimson Wonder Again. When writing for it kindly mention The Homestead." See page 41.

Fox Terrier Male Wanted.

N. R. Rogers, Peru, Neb., the well-known breeder of Chester White swine, Fox Terrier dogs and Rhode Island Red chickens, is in the market for a strictly choice Fox Terrier male dog fifteen months or older. Write Mr. Rogers at once and state that you saw this notice in The Homestead.

Twenty Choice Steers.

On January 31st, Frank Roberts, Earlham, Iowa, will sell twenty choice three-year-old steers in his sale that will weigh 1,300 to 1,400 pounds. Mr. Roberts holds a Poland China sale at that time and will also sell these steers and a splendid span of five-year-old bred Shire mares. Write for his catalog and Mention The Homestead.

Son and Daughter of Carnot Go to Iowa Buyer.

J. Crouch & Son, La Fayette, Ind., write: "We have sold Martin J. Nelson, a prominent young horse breeder and farmer, Cambridge, Iowa, the black imported Percheron stallion, Konsecutif, and the two black imported Percheron mares, Kaoline and Kouture. This is an extra choice lot of stock, the stallion, Konsecutif 9156, being a son of the great Carnot and himself a horse of the highest quality, fourth-prize winner at the recent International show at Chicago in the two-year-old class. The mares are of exceptional quality, the mare, Kaoline, being also sired by Carnot and second-prize winner in the two-year-old class at the last International show in Chicago, the mare, Kouture, standing seventh in the same class, so both his stallion and mares were prominent winners at the last International show in Chicago. In years past we have sold Mr. Nelson a number of good stallions and mares and he has never sacrificed price for quality, and his recent purchase is evidence that nothing but the best is good enough for him, and in selecting such stock he is doing himself and his community a great good in the way of bringing the best blood of the Percheron blood that money can buy within their reach."

Golden Model 2d.

Golden Model 2d, the noted Duroc Jersey boar at the head of Waltemeyer Bros.' herd, Melbourne, Iowa, has made a record as a sire that has not been surpassed and it is doubtful if it has been equaled in the history of the breed. This firm have been showing the get of Golden Model 2d at the Iowa, Nebraska, Minnesota, South Dakota and Sioux City fairs during the past four years and his get have won more premiums at these shows than the get of any other boar living or dead in the same length of time. It has been a common thing for his sons and daughters to win grand championships at these shows. To give a list of the winnings of his sons and daughters at these shows during the past four years would take much more space than we have at command, but we will give a summary of them. During the past four years this firm has won 270 ribbons. Twenty-four of these have been championships, 117 firsts, sixty-eight seconds, thirty-eight thirds, twenty-four fourths and a few minor premiums. About 80 or 85 per cent of these winnings have been made on the sons and daughters of Golden Model 2d. To the average man this great record made by Golden Model 2d indicates his superiority as a sire. As a business proposition a good sow bred to Golden Model 2d cannot be purchased too high. Forty high-class sows, many of them show sows, will sell in the Waltemeyer sale on February 11th and nearly half of them will be bred to Golden Model 2d. It will pay Duroc Jersey breeders to keep this sale in mind. See page 41 and write for catalog, mentioning The Homestead.

Bloom, of Bridgewater.

Earl Bloom, Bridgewater, Ia., whose portrait appears on page 40, is a breeder of draft horses, Chester White hogs and various strains of pure-bred poultry. He has been quite successful in the lines mentioned and has stock for sale at all times. He would be glad to entertain correspondence or visits from prospective patrons. Address inquiries to Earl Bloom, Bridgewater, Ia.

Cooper's Big-Type Poland China Sow Sale.

W. H. Cooper, the well-known live stock auctioneer, breeder of big-type Poland Chinas, will sell fifty bred sows at his East Side Farm on February 4th. Mr. Cooper has selected a number of his top sows for this occasion and assures breeders of greater attractions in this sale than in any preceding offering. A Homestead representative has inspected these sows and pronounces them as good a lot as will be sold at public auction this season. Twenty-five head of yearling and two-year-old sows, several fall yearling gilts and a number of big, stretchy, heavy-boned spring gilts weighing over 400 pounds sale day make up the offering. They are sired by such noted boars as Big Bone 2d, Mr. Cooper's present herd boar, that weighed 860 pounds in his two-year-old form, and others will be sired by Big Ex, Giant Look, Superior Look, Big Chief 2d, Chief I. X. L. 2d and other noted boars. They will be bred to Big Bone 2d, Big Expansion, a son of the noted sire, Dorr's Expansion; Chief Leader, and Giant Chief. Anyone interested in big-type Poland Chinas should attend this sale. The catalog can be had by writing Mr. Cooper, mentioning The Homestead. See page 48.

Healy's Bates Short-horn Sale.

On January 28th, at Marshalltown, Iowa, O. M. Healy will sell forty head of Bates-bred Short-horns of the most noted milking strains. Among these will be Airdrie Duchess, Oxford, Grand Duchess and Kirklevington tribes. There will be thirty cows and heifers and ten bulls. If any of our readers want a Short-horn bull of the milking strain or some good cows and heifers they had better arrange to attend the O. M. Healy sale at Marshalltown on January 28th.

Kuper Bros.' Duroc Sale.

Kuper Bros., Bellevue, Iowa, will hold their second annual sale of Duroc Jersey bred sows in Felderman's garage on January 30th. These young men started in the Duroc Jersey business a few years ago and have been coming to the front. In 1912 at the Iowa State Fair they exhibited their herd boar, Ames Col., and he was good enough to win second in the senior yearling class, only being defeated by the grand champion boar of the show. They will sell thirty head in this sale, ten of which are yearlings and two year olds and the balance gilts. The gilts are sired by Springfield Wonder, S. E.'s Premier Col., Proud Ohio Chief, Perfection Col. 2d and Ames Col. As to the sows, one is by The Professor, one by Muncie Chief, two by Model Wonder and others by Perfection Col. 2d and Col. Highbred. The sows will be bred to Ames Col. and Young Premier. Ames Col. is a son of the Iowa champion, Freed's Col., and Young Premier is sired by S. E.'s Premier Col. and out of a Golden Model 6th sow. This offering is a well-bred one and there are sows good enough individually and well enough bred to suit any breeder. Send for a catalog, mentioning The Homestead, and if you cannot attend the sale send a bid to Carlos C. Palmer, Homestead representative, in care of Messrs. Kuper. See page 49.

A Successful Spreader.

An advertisement of the Robinson Spreader Company will be found on page 36. This spreader has many advantages peculiar to itself which make it a thoroughly effective machine with durability, high capacity and economical operation. It is made of a regular farm wagon width and is not heavy nor clumsy. Two horses can handle it under ordinary conditions. Read the advertisement carefully and write for descriptive circular. Address Robinson Spreader Company, Vinton, Iowa.

Dissolution of Menzie Poland Chinas.

Owing to the death of Col. F. D. Menzie, Hampton, Iowa, his excellent herd of Poland China hogs will be sold at public sale on February 4th as per announcement on page 39. The consignment will include three remarkably well-bred herd boars, ten matured brood sows and thirty spring gilts. This lot of hogs were gotten together by Colonel Menzie as the foundation of a high-class big-type herd and it is unfortunate that circumstances compel a dissolution. Catalogs may be obtained by writing to Anna E. Sharpe, administratrix, Hampton, Iowa.

The Short-horn Bull, Diamond Digger.

A likeness of Diamond Digger, the good son of the champion, Diamond Goods, is shown on page 21 of this paper and we wish to say that he is one of the good yearlings of Nebraska today. He is at the head of the Short-horn herd owned by Chas. A. Slepicka, Tobias, Neb., and an item of interest just now is the fact that all the cows of breeding age to go in the sale which will be made at this farm on February 14th will be bred to this young bull. Keep this sale in mind, get your name on the mailing list at once. When writing kindly mention The Homestead.

Quelland's Hereford Sale.

Charles Quelland, Williams, Iowa, will disperse his herd of twenty-three Hereford cattle at public auction on January 21st. The sale will be held at the farm five miles south of Williams. The offering consists of his herd bull, Baldy; six young bulls, ten cows, two yearling heifers and four heifer calves. They are a good, useful lot of cattle in nice breeding condition and anyone in the market for Hereford cattle will do well to be present, as they will sell worth the money. Write for any information you may want to Mr. Quelland, kindly mentioning The Homestead. See page 53.

Herring's Closing-Out Duroc Sale.

F. H. Herring, Kalona, Iowa, will disperse his herd of Duroc Jersey hogs at Graham's livery barn, Iowa City, Iowa, on January 21st. This sale includes all of Mr. Herring's noted brood sows, a number of them sired by Crimson Wonder Again, Model Chief, Model Chief 2d, Proud Col., Model Wonder, Golden Model 4th and others. They will be bred to Golden Model 30th, third-prize junior yearling, Iowa, 1912; first at Hamline and Huron and third at Sioux City. This boar is included in the sale and will be a good proposition for some breeder. If you cannot attend the sale a bid sent to Carlos C. Palmer, in care of Mr. Herring, will receive careful attention.

Swanson's Duroc Sow Sale.

On January 25th, S. W. Swanson, Stanton, Iowa, will make a public sale of thirty-five head of well-bred Duroc Jersey sows, and he will have some good things to offer the breeders. A great many of the sows he will sell are sired by Model King, a son of the noted prize-winning boar, Hogate's Model, and he was one of the best boars he has ever used in his herd. He also sells a number of good sows that are sired by Col. Willetta and King The Col. and three nice gilts by the grand champion boar, Crimson Wonder Again. These gilts are out of a daughter of Chief Select and, while they are late, they are very good for their age. A number of other good sows make up the list and they will be bred to Model King and King Willetta. Mr. Swanson has been a good buyer at the various sales and deserves the patronage of the breeders and the farmers. When writing for his catalog kindly mention The Homestead.

Eggert's Imported Horses.

George Eggert, Newton, Iowa, has an announcement on page 38 that should interest every man contemplating the purchase of a draft stallion or mare of any of the leading breeds. It has only been a few years since Mr. Eggert engaged in the importing and breeding of draft horses, but he has made marked headway since the time he engaged in the business. He never exhibited until this year he made a show at the Iowa State Fair and was very successful. He won first in the three-year-old class and championship on his imported Belgian stallion, Villiant De Merdes. He also won second in the three-year-old class on Max De Grace. Brown Bob, his two-year-old Shire stallion, was first owned and bred by exhibitor and champion Shire stallion of Iowa. He won first in the three-year-old Shire mare class and second on Shire filly foal. He also won fourth on aged Belgian mare. For the first show we consider this exceptionally good, but it only indicates the character of the horses Mr. Eggert imports and breeds. His last importation arrived in November and they are now in condition to show prospective purchasers. Mr. Eggert keeps his horses at his farm adjoining the town of Newton and has many ways of econ-

NEXT WEEK'S SALE PROGRAM

Monday, January 20	Duroc Jerseys, S. P. Freed, Ames, Iowa.
Tuesday, January 21	Duroc Jerseys, F. H. Herring, Iowa City, Iowa. Poland Chinas, Peter Ellerbroek Estate, Sheldon, Ia. Duroc Jerseys, S. E. Eakle & Sons, Prophetstown, Ill. Duroc Jerseys, J. A. Shade & Co., Kingsley, Ia. Herefords, Chas. Quelland, Williams, Iowa.
Wednesday, January 22	Duroc Jerseys, B. C. Marts, Hampton, Iowa. Duroc Jerseys, James Williams, Marcus, Iowa. Poland Chinas, E. Gritters, Hull, Iowa. Duroc Jerseys, Rude & Son, Moorehead, Iowa. Percherons, H. K. Frantz and C. F. Way, Mgrs., Lincoln, Neb. Belgians, H. K. Frantz and C. F. Way, Mgrs., Lincoln, Neb. Percherons, W. R. Wilson, (deceased) Mrs. Allie Cox, Admx., Arispe, Iowa.
Thursday, January 23	Poland Chinas, Wm. Grooters, Boyden, Iowa. Poland Chinas, Chas. Herring, Columbus, Neb. Duroc Jerseys, S. W. Swanson, Stanton, Iowa. Percherons, H. K. Frantz and C. F. Way, Mgrs., Lincoln, Neb. Belgians, H. K. Frantz and C. F. Way, Mgrs., Lincoln, Neb.
Friday, January 24	Poland Chinas, Jas. G. Long, Harlan, Iowa. Poland Chinas, Herman Baltz, Fremont, Neb. Duroc Jerseys, A. J. & L. L. De Young, Sheldon, Ia. Duroc Jerseys, Sol Frank, Sioux City, Iowa.
Saturday, January 25	Duroc Jerseys, J. E. Smith, Victor, Iowa. Hampshires, C. P. Paulsen, Nora, Neb. Duroc Jerseys, H. Gilbert, Perry, Iowa.

OAKLAWN STOCK FARM BREEDS AND IMPORTS

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES

THE accompanying illustration is a likeness of **Valiant De Merbes,** first-prize three-year-old and champion Belgian stallion at the Iowa State Fair 1912. We imported and exhibited this horse and our other winnings at the Iowa State Fair were first on two-year-old Shire stallion, bred and owned by exhibitor, champion Shire stallion of Iowa, first on three-year-old Shire mare, second on Shire filly foal, fourth on aged Belgian mare. These winnings indicate the high-class sort of draft horses we import and breed.

We had a fresh importation of stallions and mares arrive in November and these are now in shape to show prospective purchasers. They have the bone, size and draft qualities that all horsemen like. They are a clean-limbed, sound, good-acting lot of horses and anyone in need of a high-class stallion or mare should see me before buying. I treat my customers right which is shown by the fact that I have sold men their third and fourth stallions. I can save you some money if you will give me a chance. Write me your wants mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA

omizing on expenses such as on feed and expensive barns and this places him in position to make prices that will save buyers money. Mr. Eggert will be glad to quote prices or give any other information to our readers who will write him mentioning The Homestead. See this page.

Last Call the Paulsen Hampshire Sale.

We are this week calling attention for the last time to the sale of Hampshire hogs that are to be sold by C. P. Paulsen, Nora, Neb., on January 25th, and we wish to say that in this sale the greatest lot of choice Hampshires to be sold in the West this season will be offered. Make your selections from the catalog and if unable to attend send bids to J. C. Price, the field man for The Homestead. Your wants will be carefully looked after and purchases will be made with the greatest care and at the lowest dollar possible. Do not delay, but send bids early. Direct them to J. C. Price, in care of C. P. Paulsen, Nora, Neb. See page 47.

Marts' Duroc Sow Sale.

On January 22d, B. C. Marts, Hampton, Iowa, will sell forty Duroc Jersey bred sows at auction. Mr. Marts has Durocs of the most popular breeding and their individuality is of a high order. The sows are bred to Chief's Model, a son of the noted sire of Winner's Model Chief, Wonder Again by Crimson Wonder I Am and Hampton King, a grandson of Model Chief Jr. by Model Chief. The sale will be held in town and anyone in need of a good sow should be present or send a bid. Write for catalog, mentioning The Homestead. Send bids to Carlos C. Palmer, Homestead representative, in care of Mr. Marts, and they will be properly handled. See page 49.

H. S. Allen, Auctioneer.

On page 39 H. S. Allen, Russell, Ia., makes his announcement as a full-fledged live stock auctioneer, if you please, and he will be pleased to hear from anybody contemplating making a public sale. Mr. Allen has been known as one of the foremost breeders of Duroc Jerseys in the West. He has bred them for about fifteen years, also Aberdeen Angus cattle for about the same length of time, so that he is no novice in the live stock world. He is branching out now in the auction business and holds himself in readiness to cry sales in any part of the country. He has a number of open dates and will be glad to hear from anybody wanting a capable and well-posted auctioneer.

Mason & Brackmyer Sale.

Mason & Brackmyer, Morrison, Ill., will hold a sale of fifty bred Duroc Jersey sows on January 28th. These two gentlemen have joined forces in order to put up a useful offering of bred sows and they invite breeders and farmers to attend this sale and buy these sows at their own prices. Some excellent blood lines are represented in the pedigrees of this offering. A number of the gilts are sired by and a number bred to Chief Orion by Helen's Chief by Ohio Chief and out of Lillian Orion, one of the good sows formerly owned by M. A. Kraschel. Other gilts are bred to Royal Col., a son of Chief's Col. and Bell Royal. See page 41 and send for a catalog, mentioning The Homestead, and arrange to attend the sale.

Justice's Percherons and Belgians.

In his advertisement on page 39 J. R. Justice, Galesburg, Ill., says: "I think it is better to have extra good stallions to show when customers come to see than it is to claim you have them and cannot show." That is characteristic of Mr. Justice and his methods. He is a first-class judge of a horse, knows the kind that is best suited to the needs of the American farmer through his many years of connection with the market horse trade, and that is the kind he handles. He never has represented that he had all the good horses that were to be found in any importer's stable, but he always maintains that what he offers are the right kind, and the truth of this statement will be at once apparent to any person who visits his barns. He selects all his horses in person, handles them at the minimum of expense and can give buyers as much value for their money as any man engaged in the horse business. If you are in the market for a stallion, either Percheron or Belgian, or a span of the right kind of draft mares, get in touch with Mr. Jusitce. Write him as per his advertisement and mention this paper.

A Great Washing Machine.

The Newton power washing machine which is famous throughout the country for its long life and dependable work, is now to be sold direct from the factory to the user. The manufacturers claim this will make a saving of from $3.50 to $25, depending upon the kind of a machine purchased. The machine is made for hand power, gasoline engine or electric motor. It can be tried thirty days in the homes of our readers and returned if not satisfactory. See advertisement of the Newton Washing Machine Company, Newton, Iowa, on page 25.

Naiman's Special Offer on Fall Pigs.

Readers of this paper who are thinking of ordering some of the choice Poland China fall pigs that are being advertised in these columns for the remarkably low price named in the adtisement may now get photos of these pigs from Mr. Naiman. All pigs that are being advertised by this breeder are good, thrifty stock, will weigh close to 100 pounds and each pig will be pedigreed. Write at once for full information or send money with order at once. See the advertisement on page 48 of this paper and write immediately.

Williams' Poland China Sale.

On February 13th, L. B. Williams, Villisca, Iowa, will make his annual sale of big-type Poland China brood sows and he will offer forty head of exceptionally good ones. Six of them will be tried sows, four fall yearlings and thirty spring gilts. The spring gilts will be sired by Surprise All, Orphan Wonder and W.'s Quality, and these have both size and quality. In fact, some of these are going to be as large as any of the breeders will offer and three of the best of these are litter sisters to the $100 boar pig he sold to A. Z. Scott, Massena, Iowa, in his fall sale. He is offering a lot of other good things in this sale, which his catalog will show if you will only drop him a postal card and ask for it. When writing him kindly mention The Homestead.

Limestone Valley Farm's Thirty-fifth Annual Sale of Jacks and Jennets.

Limestone Valley Farm, Smithton, Mo., noted as the home of the world's greatest jacks and jennets, will be the scene of a notable event in the way of a public sale on Tuesday, March 4th. L. M. Monsees & Sons will shortly issue an announcement that should interest every breeder of Mammoth jacks and mules, and all who contemplate buying should secure the 1913 catalog, as it contains pictures of many, and the pedigrees of a string of as good Mammoth jacks as ever were found under one roof. Sixty-five head of these Mammoth-bred jacks and jennets will be sold and the number insures ample opportunity for selections. If you are interested write for catalog at once so that your name will be on the mailing list, which is now being made up, and kindly mention this paper when doing so.

David Boesiger's Duroc Sale.

The writer recently called on David Boesiger, Cortland, Neb., and spent some little time in looking over the Durocs he will put in his January 27th sale. We wish to say that this will be one of the best offerings that have been offered from the Plainview herd in recent years. They are nice and thrifty, well grown, good individuals and the greater part of them are unusually heavy boned. The greater part of the forty head will be gilts, most of which are the get of Lincoln Lad by Lincoln Wonder. The remainder are by Crimson Wonder Boy by A Crimson Wonder and C. H.'s Crimson Wonder by Crimson Wonder Again. There are three by this last named sire and they are very choice. Fully half of the offering are bred to the great show and breeding boar, Widle's Wonder by Uneeda Crimson Wonder, and this fact should lend much interest to this sale. It looks as though a good sow bred to Widle's Wonder would be a good investment for the average Duroc breeder, and with the present hopeful outlook to the business they should be doubly valuable. This is the only opportunity this season to own a sow bred to Widle's Wonder. Don't overlook this chance. The catalogs are ready for distribution. Send in your name for one at once. A postal card will do, and when writing kindly mention this paper. See page 43.

Closing-Out Percheron Sale.

It is not generally known by live stock breeders throughout the state that W. R. Wilson, so long connected with pure-bred stock interests, Arispe, Iowa, died during the past season. This necessitates a settlement of the estate. The stock equipment of the farm includes eighteen Percheron mares and fillies (four of which are imported mares) one 2,300-pound stallion and two stallion colts of his get. Those who knew Mr. Wilson in life will recall the fact that no matter what kind of stock he bred, it was the best to be obtained. The same applies to the horses spoken of above. These Percherons will be disposed of at the farm at Arispe at public sale on Wednesday, January 22d, as per advertisement on page 49. The farm will also be sold at private sale. Further particulars may be obtained by writing to Mrs. Allie Cox, administratrix, Arispe, Iowa.

Williams Bros.' Great Sale.

One of the really great offerings of big-type quality kind Poland Chinas that will be sold this winter will be that of Williams Bros., Villisca, Iowa, on February 5th. They will dispose of fifty head in this sale and they will be sired by such noted boars as Pawnee Nelson, Big Sampson, Long King, W.'s Major, A Jumbo and other well-known boars. These sows will be bred to Pawnee Nelson, Big Sampson, Wonder's Big Prospect and one or two other boars they have used. It is a great offering of great sows made by one of the best and most reliable Poland China firms today in the West. It is an offering that will meet with the expectations of every breeder who attends their sale. Few offerings will be sold this winter that will outdo this grand lot of sows they will sell in their sale. Drop them a postal card for catalog at once and kindly mention this paper.

Albert Smith & Son's Poland China Bred Sow Sale.

Among the good herds of Poland Chinas in Nebraska none rank higher than the one belonging to Albert Smith & Son, Superior. Adhering strictly to what these breeders love to refer to as the Nebraska type, this herd is rich in the breeding most desired by lovers of the big-type Poland. With a foundation built upon sows sired by Chief of Pawnee, a son of the noted breeding boar, Johnson's Chief, this herd is rich in the blood of similar bred families. The herd sows are sired by such boars as Chief of Pawnee, Smith's Big Hadley, a son of the famous Big Hadley; Jumbo Jr. by Nebraska Jumbo; Hammond's Price by Guy's Price and sires of like breeding. At the head of the herd are Jumbo Jr., a three year old by Nebraska Jumbo and out of Bell We Know by Bell Metal; Victor Prospect, two years old by Big Victor and out of Blushing Rose by Guy's Prospect, and Mogul's Monarch, the grand six-year-old boar recently at the head of the Carl Jensen & Son herd, Belleville, Kan. This boar is by Mogul, he by Blain's Tecumseh, and out of the grand Expansion sow, Faultless Model. The sale will be held on the farm, nine miles northeast of Superior, Tuesday, February 4th, and the offering will consist of forty-five head and includes the tried sow, Queen's Victoria, a litter sister of Lonergan's great herd boar, Big Victor; White Ear by Chief of Pawnee 2d, the dam of the best litter raised by these breeders last year; five fall yearling gilts and thirty-eight spring gilts. The spring gilts, practically all of March farrow, are as growthy a bunch of gilts as well be sold this winter, age considered. They are by Smith's Big Hadley, Jumbo Jr. and Victor Prospect. Four of the fall gilts are by Big Sam, he by Sampson, and are out of sows by Blue Valley Quality and Chief of Pawnee. The offering is bred to Jumbo Jr., Victor Prospect and Mogul's Model. The offering is good throughout and should appeal to all lovers of the big-type Poland. A number of good Short-horn heifers and a February bull calf, a great prospect, will also be sold. Keep this sale in mind and arrange to attend. John C. Halderman will represent this paper at the sale and look after all bids sent in his care. Write for catalog, mentioning this paper when doing so.

Con McCarthy's Duroc Sale is Off.

For the reason that he had but a few sows to spare, Con McCarthy, York, Neb., will not hold his bred sow sale scheduled for February 17th. It would necessitate selling too close to make the sale and putting in some that were too young to make a creditable showing. For this reason Mr. McCarthy will pass up the sale for this season, but he has a few, about fifteen, very choice sows to sell at private treaty. Parties selling close to make their sales or in need of a few choice sows will do well to write Mr. McCarthy at once. The price on these sows is as low as we believe it possible to buy this class of stuff. Write immediately and mention The Homestead when doing so.

Boyer's Chester Whites.

B. M. Boyer & Sons, Farmington, Iowa, well-known breeders of Chester White hogs, writes as follows under recent date: "Please change our advertisement, as we are sold out of boars. We have never experienced such a demand for good pure-bred hogs since we have been in the business, having sold thirty-seven boars since December 1st, besides ten bred gilts. We are receiving lots of inquiries for bred gilts and have thirty choice growthy gilts at present bred to the two boars that were first at the Iowa State Fair and at the Minnesota State Fair. These gilts are due to farrow in April and are the lengthy, heavy-boned kind. We will be pleased to correspond with anyone looking for a good bred gilt and if they will describe just what they want we will ship them one, paying all express charges and upon arrival if it does not fill their description all we ask is that they return it to us at our expense. We know of no fairer proposition than this, as the purchaser does not pay a cent if the gilt is not as represented. Our gilts are all guaranteed safe in pig before shipping. Will be pleased to mail our free catalog to anyone interested in good Chester Whites. We wish to thank your paper for the good it is doing us." See page 51 and when writing kindly mention The Homestead.

Davis' Great Hampshire Sale.

W. F. Davis, So. St. Joseph, Mo., who has bred Hampshire hogs for over fifteen years, will sell 150 head of bred sows and forty boars at the So. St. Joseph Stock Yards sale pavilion on Tuesday, February 18th. These are selected from his herd that produces 600 to 1,000 head of Hampshires each year, the tops of which go out as breeders, the balance to market. On numerous occasions Mr. Davis' Hampshires have topped the market by fifty cents per hundred and car loads have dressed as high as 87 per cent. Mr. Davis has used the very best of sires in his herd and a great many of the sows in this sale are daughters and granddaughters of Pat Maloy 1415, the world's great champion boar, never beaten in the show ring. Others are by Gold Gem's Model 4397, one of the great herd boars of the breed. A great many are half-sisters to Silvia 1st 16316, that sold in Mr. Davis' 1912 sale to Mr. Brook, of Iowa, at $190, and are equally as good as she. They are bred to Gold Jem's Model 4397, a grandson of Gold Medal; Blythedale's True Belt 4761, a grandson of Blythedale Duke, one of the greatest boars of the breed, and Good Deal 4493, a grandson of Solid Gold, and Choice Goods. Mr. Davis has never spared money or pains in breeding the right kind, securing the best boars money would buy. He had all his hogs vaccinated early in October with the simultaneous treatment and they are unquestionably immune from cholera. He brings his hogs to the sale ring in the best possible condition to be useful to the purchaser and sells them at the prices those present are willing to pay and the result is he has no trouble in disposing of such as he decides are good enough to go out as representatives of his work producing a superior type of Hampshire hogs. He is issuing a catalog that should be in the hands of

ROCK BROOK FARM'S DISSOLUTION SALE OF 125 REGISTERED HOLSTEIN-FRIESIAN CATTLE

AT THE LIVE STOCK SALE PAVILION, UNION STOCK YARDS, SO. OMAHA, NEBRASKA, TUESDAY AND WEDNESDAY, FEB. 4 AND 5, 1913.

80 HEAD of registered cattle, consisting of forty cows 3 to 8 years old, milking or soon fresh, and 20 yearling and two-year-old heifers. These females are all bred to sons of either KING SEGIS, KING OF THE PONTIACS or DE KOL 2D'S BUTTER BOY 3D, three of the greatest bulls of the breed. Ten heifers under one year, some of them granddaughters of the above bulls. Ten bulls ready for service and all out of great producing cows. More A. R. O. blood in these bulls than any bulls offered in the West. Forty-five young high-grade Holstein cows and heifers, all milking or soon due to calve by registered bulls. Every animal over six months is tuberculin tested. The results of thirty years of careful breeding are represented in this sale. Catalog ready about January 25th and will be mailed only on application if you mention The Homestead.

HENRY G. GLISSMAN, STATION B, OMAHA, NEBRASKA.

every hog raiser interested in Hampshires and will be glad to mail you one on receipt of your name and address requesting same and mentioning this paper. See page 43.

A Pair of Great Poland China Boars.

It seldom occurs, and we doubt if there is today a half dozen herds of Poland Chinas in the West that are as well fixed for herd boars as is the herd owned by Thos. F. Walker & Son, Alexandria, Neb. We know of a number of great boars, the sort that are hard to find and that cost good money when found, but they are one in a place. Walker & Son have two and it is a question which is the most valuable. The two-year-old boar is Blue Valley, a son of the famous Blue Valley Quality and out of Daisy Dean by the famous Big Hutch. Blue Valley is a boar hard to describe, because a description will scarcely do him justice. We will say, however, that for a back, a set of feet and legs, a good head and general conformation, he is a great boar. The writer tried to buy this boar when but a pig, but Walker & Son have steadfastly refused to price him. The young boar is Blue Valley's Orange by Big Orange. He was the top pig of the J. O. James October sale and a litter mate to the top boar of Mr. James' August sale. It is a question of development as to which will make the most valuable boar of these two, but today there is mighty little choice between them. Every sow that will go in Walker & Son's bred sow sale, which will be held in Fairbury, Neb., on February 15th, will be bred to one or the other of these boars. A great many will be sired by Blue Valley. Do not forget this sale. There will positively be hogs here for as good herds as were ever founded. This is the place to buy a bred sow to raise a herd header or a choice lot of stuff to keep in the herd. Get your name on the mailing list at once. Mention The Homestead when you write.

Kissinger's Poland China Sale.

In the sale of Poland China bred sows that will be made by G. A. Kissinger, Milford, Neb., on January 30th, there will be offered one of the most useful lots of Poland China sows that the writer has seen this season. There will be forty head in the sale, mostly spring gilts and mostly the get of one of the greatest boars of Nebraska. He is Hillcroft Model, a son of the well-known Hillcroft Halfton, and when we saw him a few days ago he appeared to the writer as one of the most active big boars that we had ever seen. He was out in a good-sized yard and romping around like a six-months pig. He is a boar of immense scale, would weigh close to 900 pounds in the flesh he is in, and of such make-up that he would be a good candidate for money at the Nebraska State Fair. The writer thought that he would be a good proposition for the state fair last fall, but we could not induce Mr. Kissinger to fit him. His junior yearling sow, however, won first in class and junior championship. Everything in the sale will either be sired by or bred to Hillcroft Model and the remainder of the sows not bred to him, which are the last spring gilts and fall stuff sired by him, are bred to Big Martin, the second highest-priced boar of the Lonergan sale last fall. Big Martin is a sure good pig. He has plenty of bone, good feet and plenty of scale and quality. The writer is of the candid opinion that a sow in this sale would be a good proposition for any breeder in need of a sow to buy. There are few places where as good stuff will be offered this season. We would urge that you get the catalog at once, make a selection from it if you cannot attend the sale and send a reasonable bid to J. C. Price, field man for The Homestead at this sale. Your interest will be looked after with the idea of making a good selection for you and securing at fair values what you wish. Send for catalog at once and mention Homestead when you write. See page 40.

The Williams Duroc Jersey Sale.

We are giving this week the final notice of the Duroc Jersey sale of James Williams, Marcus, Iowa, to be held Wednesday, January 22d, at the Williams farm. The catalogs are ready for distribution and we would advise everyone who might be at all interested in the sows to be sold here to at least write for the catalog and look over the pedigrees of the various animals consigned to see if there is not something that will be of use. We believe that these sows will prove the bargains of the winter, because they are good, several of both the groups of matured sows and gilts being entitled to consideration by anyone who wants to improve breeding herds, both as to blood lines and individuals themselves. Another big reason for being at Mr. Williams' sale is the fact that it is one of the earliest sales of the year and we believe that by the end of the sale season there will be many who will be ready to buy just such stock as will be sold here at high prices. The early buyer this season will, as far as anyone is now capable of judging, be the fortunate one. To repeat a word or two of the announcement of this sale, it will be remembered that Mr. Williams has always bought the best stock and has never been satisfied with anything else. This fact will be patent to anyone who studies the catalog. He sells Golden Model blood and Model Chief, Col., Iowa Notcher, Col. Scott by Carl's Col. and Proud Advance breeding are all prominent in the herd. Duroc Jersey men owe it to themselves to look up this offering. Farmers who do not make a specialty of breeding can find plenty in the sale to suit. Remember the date, Wednesday, January 22d, and take that day. If you cannot come and find something in the catalog which suits you, Ray L. Gribben, Homestead representative, will take care of your bids an Illinois Central train to Marcus strictly in your own interests. Address for catalog James Williams, Marcus, Iowa, mentioning The Homestead. See advertisement on page 49.

Robinson's Sale of Mammoth Poland Chinas.

In the sale of fifty head of strictly big-type Poland China bred sows and gilts which F. P. Robinson, Maryville, Mo., will hold on Wednesday, January 29th, breeders will find stock that they should add to their herds if wanting hogs that have size and quality and are so bred that they will produce their kind. Mr. Robinson has spent eighteen years perfecting these big, quality Poland Chinas and they are as he says, big, mellow, easy-feeding, quick-maturing hogs. He is selling twenty-one tried sows, all but two of these are one and two-year-old sows that have produced good big litters, three are fall yearling gilts and twenty-six are great big growthy spring gilts. Among the mature sows is Miss Corwin 2d, the dam of Pawnee Pete, Mr. Robinson's leading herd boar that is a 1,000-pound boar in just moderate flesh and a 1,200-pound boar when fattened for show. Miss Corwin 2d has always produced good big litters. A number of her sons have made valuable herd headers and as she is bred for early farrow her litter should be valuable. She is an exceptionally good individual and is a sow that will be good for several years to come. Dana B., her half-sister, and Princess Allie are a pair that should please. There are seven daughters of Pawnee Pete and ten sows and gilts out of his daughters in the sale. These should be appreciated. Others are by Prince Tom and Prince Ito, sons of the noted Bell Prince. Prince Ito was lost this summer while being fitted. He weighed 850 pounds when two years old and would have passed the 1,000-pound mark this year had he lived. He has sired some of the best things Mr. Robinson has bred and his get should be appreciated. These sows and gilts are bred to Prince Tom; Fred Jamison, a son of Pawnee Pete, that is the making of a great boar; Spotted King, a son of Long King's Equal, and Montecello Boy, a prize-winning son of Big Expansion, that was a winner at the Iowa and Missouri State Fairs this year. The conformation, size and quality found in Mr. Robinson's hogs is such that we are pleased to recommend them to our readers as being the right kind to buy. There are none better bred and they will breed on. All have been vaccinated with serum made under the supervision of Professor Conway, of the Missouri State College. It is Mr. Robinsons wish that you come to the sale, but to those who cannot attend and who send bids by mail he gives a guarantee that is an absolute protection. He allows those who purchase on mail bids the privilege of returning any sow or gilt bought in this way if she is not satisfactory, after the purchaser has had her home for any time up to five days for inspection. Furthermore, Mr. Robinson's guarantee is absolutely good and will be lived up to in every respect. Send now for his catalog, note that his hogs are well bred, also note what he has to say of them. See page 44 for Mr. Robinson's advertisement and when writing him kindly mention this paper.

Schram's Poland China Sale.

Mr. C. W. Schram, New Castle, Neb., will offer at public sale, on Thursday, January 30th, at his farm, six miles south of the town of New Castle, a strictly select lot of Poland China sows bred for early farrow, that is worthy of careful attention on the part of all breeders of the Poland China hog. One of the principal features of the sale will be the nice bunch of sows bred to boars of quality-producing powers, and themselves carrying the most desirable combination of big blood and the more medium sized and smooth breeding. This is a very practical kind of a hog and is just what the great majority of breeders are looking for. This cross has been made successfully, as a recent visit to the herd proved, and as a visit by anyone on the day of the sale will prove to those who will be in the market for this type this winter. Such a mingling of blood has been long sought for by all breeders of this strain, and we can conscientiously recommend the offering here to be just as represented. An examination of the blood lines in the catalog will show that the big and the more medium sorts have been well mixed and the smooth lot of sows in the sale will show that the breeding along these lines has been successful. The herd boars that have sired the greater part of the sale stuff are listed as follows: Fair Chief, the sire of a good many of the tried sows is by the well-known sire of size, Chief Price 2d, and out of the sow, Fair Maid 2d, an equally good producer of size in her offspring. Also a sire of some of the more matured sows in this sale is Expansion Prince by Exception, a doubly-bred Expansion boar. Then a younger boar, Hadley's Mogul by Hadley's Surprise, tracing to Big Hadley on his sire's side, has produced a fine lot of young gilts which will grow out to a good size, and which are especially good in quality. Mastiff's Pointer is one of the younger herd boars that has only a few gilts in the sale, but which is a well-bred boar, being by the Sioux City and Nebraska winner, King Mastiff, sold recently to R. A. Schug to go to a breeder in Illinois. Some of the gilts by him are bred to a spring boar, a grandson of the great Big Jumbo. The entire lot is well bred and contains much of real value to any breeder. Some of the tried sows in the sale that are perhaps as much of an attraction as any are those that are sired by the Fair Chief boar mentioned above and out of sows by Expansion Prince, the line-bred Expansion boar. Two of these, Arabelle and Mollie Fair, are very good sows and bred to the Hadley boar ought to give

SHEEP

REGISTERED SHROPSHIRE RAMS

FROM best imported stock. Fifty head rams to go at quick sale from $15 to $25 each. These are thrifty, weigh up good, and include lambs, yearlings and a few two year olds. Will also offer a select lot of ewes. Angus cattle of best types for sale at all times.

A. C. BINNIE, - - Alta, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address H. H. REED, - MARENGO, IOWA.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable. Willard Miller, R. F. D. No. 2, Anita, Iowa

DUROC JERSEY SOW SALE

PERRY, IOWA, JANUARY 25th, 30 head well-bred, useful Duroc Jersey bred gilts will be offered at the farm 3½ miles northwest of Perry on the above date.

H. GILBERT - - - PERRY IOWA.

BIG POLAND CHINA SOW SALE

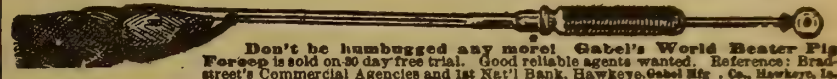
KELLEY, IOWA, FEBRUARY 3, 1913.

THIS sale includes mature and tried sows, twenty-four magnificent fall yearling sows and a number of spring gilts. They are big enough and good enough for anybody. They carry the blood of Tecumseh Longfellow, Big Victor, A Wonder, Big Crow, Dorr's Expansion and other good sires. They are bred to J. H. Hadley, Big Expectation and Pawnee Chief. All have been immunized by double treatment. Send for catalog. Address

CARL A. ROSENFELD, - - - - - KELLEY, IOWA.

CLOSING-OUT SALE AT SWITZER'S FEED BARN, HAMPTON, IA., FEB. 4, 1913

DISSOLUTION of the Poland China herd of F. P. Menzie—three big-type herd boars, ten mature brood sows and thirty spring gilts. All sows bred for early litters. The boars are Long Columbia (a two year old by Columbia Chief 2d), C Wonder (a grandson of A Wonder) and Mammoth Jumbo 2d (by Mammoth Jumbo and out of Lady Halvor). All are of excellent lines of breeding. Send for catalog. Auctioneers, Cols. A. P. Mason and W. R. Potter. Anna E. Sharpe, Admx., Hampton, Iowa.



Don't be humbugged any more! Gabel's World Beater Pig Forceps is sold on 30 day free trial. Good reliable agents wanted. Reference: Bradstreet's Commercial Agencies and 1st Nat'l Bank, Hawkeye. Gabel Mfg. Co., Hawkeye, Ia.

TOO LATE TO CLASSIFY.

IMPORTED PERCHERON AND BELGIAN STALLIONS AND MARES

Also Home-Bred Stallions

I think it is better to have extra good stallions to show when customers come to see, than it is to claim you have them and cannot show. If interested, write or come and see me. Bell Phone 237 or Union Hotel. On C. B. & Q and Santa Fe Railroads.

J. R. JUSTICE, at Union Hotel, GALESBURG ILL.

The Best Value

HOME-grown Registered Percheron stallions of substance, 2 and 3 yr. olds, grays and blacks. Big, straight fellows that will pay you. It is worth a stamp and a moment's time writing to know about these. South Central Iowa. Fast trains.

FRED CHANDLER, R. 7, CHARITON, IA.

HAGER'S HEREFORD SALE

AVOCA, IA, MARCH 20, '13

50 HEAD—25 bulls, 25 cows and heifers. Send for my catalog. Address

A. F. HAGER - - AVOCA, IOWA

HEREFORD BULLS

12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals.

G. G. CLEMENT, - - - ORD, NEB.

10 Prize Winning Belgians

IMPORTED and home-bred stallions and mares, ranging in age from yearlings to matured horses. Some splendid mares and studs for sale. For particulars address

ED BOLL, JR., - SCRIBNER, NEB.

Chesters and Short-horns

I HAVE a number of males and gilts, of the very best breeding, none better. They are large and growthy and in fine shape for service. I also have one yearling past and two spring bulls that are hard to beat in the Short-horn blood. S. M. Thompson, Birmingham, Ia.

H. S. ALLEN, Russell, Iowa

PEDIGREED LIVE STOCK AUCTIONEER

THOROUGHLY posted. Fine stock sales booked in four states. Also public sale of farms at auction. Write for prices.

MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address

E. J. AUGSPURGER, - PULASKI, IOWA

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

WANT TO BUY YOUNG PERCHERON STALLION

T. BRADY, Worthing, South Dakota.

G. A. KISSINGER'S GREAT OFFERING

OF EXTRA BIG, SMOOTH, BRED

POLAND CHINA SOWS

WILL BE HELD AT FARM 6 MILES NORTHEAST

MILFORD, NEBRASKA

THURSDAY, JAN. 30, '13

IN this sale will be offered a great many sows of the same blood lines as the ones that have been winning at the Nebraska State Fair, the greatest show of Big Polands on earth. Sisters to the first-prize sow will be included and others by the same sire. Everything in the offering is either sired by or bred to the sensational half-ton boar,

HILLCROFT MODEL 172553

ALSO A BIG NUMBER BRED TO

BIG MARTIN

Keep your mind on these two great boars. They are not comers, for they are already here. Hillcroft Model is the most active and best breeding half-ton boar in central Nebraska. Big Martin was a good show pig this season and is doing fine, and making a wonderful growth. If looking for the big ones, with as much quality as most of the small ones, attend this sale. They are here. They are the kind to raise you a herd boar another year, or a litter to take to the fair. Get the catalog at once. Mention The Homestead when you write. Address

G. A. KISSINGER, MILFORD, NEBRASKA.

Col. H. C. Wickham, auctioneer.

J. C. Price, field man for The Homestead.

Podendorf-Rainier Sow Sale

LOGAN, IOWA. FEBRUARY 1, '13

50 HEAD---Tried Sows, Yearlings, Fall Sows, Gilts---50

WE are selling the greatest offering of Poland China sows of the winter season, bred to the greatest boars today in the land, viz: **Chief Price Again, Long Nelson,** two of the most noted sires now living. Also a few bred to **Big Wonder** and **Monarch Chief.** There will be daughters of **Big Orange, A Wonder, Chief Price Again, Long Nelson, Chief Tecumseh 4th, Monarch Chief** and other great sires. Write for our splendid **illustrated catalog.** Address, mentioning Farmer and Stockman,

A. J. PODENDORF or FRANK RAINIER, Logan, Iowa.

COL. H. S. DUNCAN, Auctioneer.

C. C. Carlin field man for The Iowa Homestead.

DE YOUNG'S

DUROC JERSEY BRED SOWS

Sale at SHELDON, IA., JAN. 24th

60 HEAD picked from the best in both these herds. A strictly high-class sow sale, including about eight tried sows and yearlings, the rest spring gilts, weighing about 300 pounds each by sale day. Herd boars, King of Cols. Again, full brother to Defender; Phalas Col., Crimson Sol and Crimson Advance. Sow stuff bred to Big Bone Climax and Model Chief I Am, royally bred boars both of them. These boars are all excellent individually and carry popular producing stock. Write, mentioning The Homestead. Address

A. J. & L. L. DE YOUNG, SHELDON, IA.

J. A. Benson, auctioneer. Ray L. Gribben, field man.

J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION

We have all ages. Write for catalog, prices and terms. Mention Homestead and address

J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

Merry King 13229
Imp. & owned by John Leitch, Prop. Avondale Stud Farm La Fayette, Illinois.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.

some who have definite ideas along the selection of strains that produce a certain true type a good chance to buy hogs that will suit them. There is also a sow by the Expansion boar out of a Lady Mastodon dam that is one of the attractions of this sort. Another good thing in the sale is Lady Wonder by Fair Chief. Villisca Belle by Young Look, dam Nodaway Belle 2d, is one of the choicest sort of females and would look well to any breeder who might see her. This sale is held by a breeder who has not been considered as a great publicist in promoting his herd, but he has bred unusually well, and we believe that there will be a good chance to buy the best at moderate prices. Write for the catalog now and when you do please mention The Homestead. Address C. W. Schram, New Castle, Neb. See page 42.

Tillinghast's Poland China Sale.

Sam Tillinghast, Peterson, Ia., holds his annual sale of Poland China brood sows at his farm on Friday, January 31st, this year. He has the usual good big sows, the sort that one expects when he reads that Mr. Tillinghast will hold a sale. We are sure that this announcement of his sale will be of interest to the many old customers of his as well as to those who have never bought at this place, but who are looking for the good sort of Poland Chinas with size and stretch. There will be about forty head in the offering divided among tried sows and gilts, about as follows: Twenty head

BLOOM, OF BRIDGEWATER.
See reading notice entitled "Bloom, of Bridgewater," on page 37.

will be spring gilts, ten head tried sows of the big, roomy sort, and the remaining ten head will be fall gilts. There is in this herd a very definite type that could have been secured only by the continual selection of the hogs of breeding and individuality that measured to the type sought for. They are big, they stand extremely well on their toes and are growthy pigs all through. There are among the older tried sows some of a type that will please those who want a roomy sort and of a kind that can be depended upon to farrow big litters. The fall stuff has made a lot of size and the spring pigs look like they would be the same in size as the rest when they are as old. The boars that have produced this offering of sows are good ones and we give here a list of them, with their breeding. The old one that Mr. Tillinghast is willing to swear by most is Mastodon Wonder by King Wonder, dam by A Wonder 107353. The dam is one of the old Wheeler sows that made the name Mastodon so well known. This boar is a very active fellow for one of his age and has the accomplishment of having been so long in service in a herd like this one. A younger herd boar is Sam's Big Jumbo by the boar that has made Peter Mouw's herd so prominent during the past few seasons. The dam of this boar is by Surprise Wonder and the second dam by Orange Chief. He has been used on some of the stock and is being included as an attraction in the sale, so he will go to some breeder who wants a high-class boar of this breeding. Jones' Monarch, another younger boar of rather good individuality, has been used on a few of the spring gilts in the sale. The sire of all the fall yearling gilts in the sale is I Am King by King Leader, dam Lady Surprise by Miller's Happy Tecumseh. There are three of the older sows in the sale that are a little more than above the average of this sort of thing offered in the winter sales. They are Great Prospect, Three Spot and Colly, all by Long Prospect, and out of dams by Victor Prince. The first two mentioned are full sisters and the last one is out of another sow. The grandam of this particular sow is by Jim Crow. All three of these sows are good breeders and one of them, the Colly sow, is the dam of some of the best boars that Mr. Tillinghast has sent out during his time as a breeder of Poland Chinas. Three Spot and Colly have each some gilts included in the sale and they are among the best. The sow, Colly, raised forty-four pigs in five litters and every one has been sold to a breeder that has been sold at all. She is a big sow and a great breeding prospect. Big X. Nelson by I. X. L. Nelson, dam a granddaughter of Up To Date, is the sire of some of the sows that will go in the sale, and there are a few yearlings by Mastodon Wonder. Those gilts by Mastodon Wonder and out of sows by Long Prospect look like the sort that the breeders will like. Write for catalogs, mentioning The Homestead when you do. Address Sam Tillinghast, Peterson, Iowa. See advertisement on page 42.

The Podendorf-Rainier Sow Sale.

On February 1st, at Logan, Iowa, A. J. Podendorf and Frank Rainier will make a public sale of fifty head of high-class Poland China sows, and more than two-thirds of their offering will be bred to those two great boars, Chief Price Again and Long Nelson. These two boars are admitted by all breeders to be two of the best sires today in the West, and the record made by Chief Price Again, both as a show boar and as a sire of show boars, is hard indeed to beat. Among the best sows Mr. Podendorf will sell are Logan Surprise 3d and Logan Surprise 4th, two of the very best sows in his herd, and they are both bred to Chief Price Again. One of these is a Big Orange sow, the other by High Price by old Pawnee Lad. Princess 1st is a yearling by Chief Price Again and she is a litter sister to his $195 pig that he sold in his sale, and she goes in bred to his splendid breeding boar, Long Nelson. He is selling a splendid fall sow by Chief Price Again, out of Logan Surprise 2d, that is a corking good one, and she is also bred to Long Nelson. There will be ten or twelve head offered by Mr. Podendorf that will be sired by Chief Price Again and bred to Long Nelson and every one a good one. Mr. Rainier is also selling a grand good lot of sows in this sale, about thirty-five head in all. Among the best he will offer is Lady Nelson by Long Nelson and out of Podendorf's Choice, and she is bred to Chief Price Again and she certainly is a good one; Columbia's Ideal is a double-bred Chief Tecumseh sow and she goes in bred to Chief Price Again; Ellerbroek's Beauty, Beauty's Surprise and Orange Queen are all good sows and these are all bred to Chief Price Again for early liters. A few more good sows that he will sell are Logan Surprise 7th by Big Chief, Belle Jones 2d and Lillie Jones 1st, litter sisters by Sterling Sanders and out of Molly Jones 3d. These are splendid big-type sows and excellent producers. Then there is Proud Columbia, White Faced Beauty and Choice of All that are good sows with lots of size and quality and will go into the sale in prime condition. Choice of All is a daughter of Osborn's Chief 2d and out of Lillie Jones 1st. Another good sow he is selling is Hadley Belle, bred by Henry Dorr. Mr. Rainier is selling fourteen head in the sale bred to the great boar, Chief Price Again. Write either A. J. Podendorf or Frank Rainier, Logan, Iowa, for catalog and kindly mention this paper. Bids sent to C. C. Carlin or M. T. White, representing this paper, in care of the above breeders, will be properly handled on day of sale. See advertisement on page 40.

Glissman's Great Holstein Offering.

One of the greatest offerings of Holstein-Friesian cattle that has ever been made in the central West will be the dissolution sale of the Rock Brook Farm at South Omaha, Neb., on February 4th and 5th. It will be a two days' sale and they will sell 125 head of cattle, making it not only the largest, but one of the best sales of this breed that has ever been held west of the Mississippi river. There will be eighty head of registered cattle in the sale—forty cows three to eight years old, milking or soon fresh; twenty yearling and two-year-old heifers, and these are bred to a son of King Segis, King of the Pontiacs or De Kol 2d's Butter Boy 3d, three of the greatest bulls of the breed. There will be ten heifers under one year old, some of them granddaughters of the above bulls. There will be ten bulls ready for service and all are out of great producing cows. There are possibly more A. R. C. blood in these bulls than any ever before offered in the West. There will also be forty-five high-grade Holstein-Friesian cows and heifers, all milking or soon to calve to registered bulls. Every animal in the sale over six months will be tuberculin tested. This Rock Brook herd was established in 1885 by selections from the herds of Thos. Bales, Smith Powell and Mr. Lamb, the first great importers in America. The herd has been under the management of Henry C. Glissman for the past fifteen years and until a few years ago was one of the strongest show herds in the central West. Their wonderful growth of business of late years has compelled them to abandon the shows, as they could not be away from home. Their herd bulls at the present time are sons of King of the Pontiacs and De Kol Butter Boy 3d, two of the greatest sires of the breed. The senior Mr. Glissman wishes to retire from the herd and therefore this dissolution sale, nothing being retained but the herd bulls. The younger Mr. Glissman will restock Rock Brook again from his New York headquarters, but this will furnish breeders and farmers throughout the West an opportunity to buy Holsteins that have never before been offered at any price. On the second day they will sell forty-five head of high-class Holstein grade cows and heifers that are in milk or will be so in a short time. There are a number of cows with A. R. O. records and a lot of them with yearly milk records up to 1,700 pounds of milk and up to 700 pounds of butter in one year. All of the great breeding matrons of the Rock Brook Farm go into this sale, also a lot of their daughters that carry a lot of the most fashionable blood lines of the breed. The bulls are an especially fine lot and every one of them is backed by the best of A. R. O. records and breeding. Write Henry C. Glissman, Sta. B., Omaha, Neb., for illustrated catalog of this sale and it will be forwarded at once, provided you

mention this paper when writing for it. See advertisement on page 39.

Fesenmeyer's Great Offering.

On February 6th, at Clarinda, Iowa, Henry Fesenmeyer will make his annual Poland China brood sow sale and his will be one of the sales that all of the up-to-date breeders will be interested in. It is hardly necessary for us to mention that he is the owner of that noted boar, A Wonder, unquestionably one of the greatest big-type Poland China boars living today, and he will sell thirty sows in this sale that are bred to him, together with ten head of A Wonder sows, or sows that carry the blood of old A Wonder. It will therefore be one of the most important sales of the year. Among the forty head that he will sell will be Lady S. 1st, a daughter of Chief Price 2d, one of the best sows he has, and she is bred to A Wonder. Wonder Giantess, a two year old by A Wonder, goes in bred to his noted young boar, Big Joe, and no man will go wrong who buys her. Giantess Again by Rood's Tecumseh and out of old Giantess, is one of his splendid brood sows and she will be bred to A Wonder. King's Lady by old Long King (the mother of Reubel's A Wonder and Gutchalls' Big A Wonder, is also one of his standbys as a brood sow and she goes in bred to old A Wonder. King's Belle by Long King, Gritter's Top by Choice Chief Price (the top of Gritter's fall sale) and Nelson Superior by Big Price all go in bred to A Wonder. Here is a great aggregation of brood sows bred to one of the most noted breeding boars today in the land. A March spring gilt by Long Price and out of a Long King dam is easily one of the best young sows in the sale. She will weigh 400 pounds by sale time and she is bred to A Wonder. Another feature of the Fesenmeyer sale that is worth noticing is the five Big Joe gilts that he is selling out of dams by A Wonder and these are all bred back to A Wonder. These are outstanding good ones. This boar, Big Joe, is one of the coming boars of the breed and his get in this sale is going to make the boys sit up and take notice. He breeds a wonderfully good back and loin and his get have plenty of size. There are several other good A Wonder sows in his sale, but we suggest that readers of this paper send for his catalog and when writing for it kindly mention this paper. Our Mr. M. T. White will represent this paper at the sale and will care for any bids sent in his care. See page 43.

Extraordinary Poland China Sale.

Carl A. Rosenfeld announces that on Monday, February 3d, he will sell at public sale forty head of Poland China brood sows. A representative of this paper who inspected the offering was more than surprised at the high quality and unusual size of the entire consignment. There will be eight tried brood sows that are good enough for anybody and that carry blood lines that have helped to make the Poland China famous. Two of these are by a son of Big Victor, that made such a great record as a breeder in the Lonergan herd. Two others are by Tecumseh Longfellow, a sire which in the herd of Wm. Lentz sent forward progeny that made its mark in many good shows. Others are by Big Crow, he a grandson of the well-known Miller's Tecumseh. Still others are by Longfellow L. and Iowa Model. There will be twenty-four yearling sows and it is doubtful if any other herds in Iowa has sent into the sale ring a like number of yearlings showing the scale, the broad, well-arched backs and the strong feet that these do. These yearlings are by Rosenfeld's Expansion, Big Crow, Cottage Lad and Blue Valley Gold. There will also be spring gilts by Rosenfeld's Expansion and Pawnee Chief. These sows will have been bred to J. H. Hadley, Pawnee Chief and Great Expectation. J. H. Hadley is a hog which at one time in the herd of J. H. Watson produced some as good things as ever came out of that herd. He is a line-bred Hadley, tracing directly to Snebey's Hadley, a first-prize winner at the great Columbian Exposition at Chicago. On the side of his dam he also traces to some of the most sizable things grown by southern Iowa breeders. Great Expectation is a hog which Mr. Rosenfeld raised himself. His sire was Rosenfeld's Expansion, bred by Henry Dorr, sired by Dorr's Expansion and tracing on the dam's side to some of the blood that has made Henry Dorr's herd one of the best in Iowa. Great Expectation is a remarkably good hog and wil undoubtedly develop into one of the good herd boars. Pawnee Chief is by Dorr's Expansion and out of Pawnee Lady 3d. This is an extra good yearling and one which will be offered for sale. Breeders who admire large hogs and those which are strong in back and feet will find this consignment one of rare merit. There will also be in the sale a limited number of young Aberdeen Angus cattle. See advertisement on page 39 and for catalog write to Carl A. Rosenfeld, Kelley, Iowa.

IN AND AROUND WISCONSIN

UNTIL the fruit growers of Sauk county form themselves into a co-operative association to aid in the marketing of their apples and the purchase of their supplies, they will not make as much from their orchards as they should. This, at least, is the opinion of W. A. Toole, the veteran orchardist of that section. The difference between the prices paid by the consumers and those received by the producers for their fruit will in the near future, he believes, make such organizations necessary in Sauk county as elsewhere. Writing for the official organ of the Wisconsin State Horticultural Society Mr. Toole reports that there were in the spring of 1911 over 1,200 acres of apple bearing trees in Sauk county. Since then many farmers and fruitmen have planted orchards which, of course, are not as yet bearing and he estimates that these would equal fully 400 acres, which would make a total of over 16,000 acres of apple orchards in the county. The varieties most popular with Sauk county orchardists are Longfield, Wealthy, Fameuse, McMahon and Northwestern Greenings.

Arguing that the state fair if located at Oshkosh, Wausau or some other northern town would receive better support and greater farm patronage, residents of Marathon, Winnebago and other upper Wisconsin counties are urging the legislature to move the exposition from Milwaukee to some northern Wisconsin city. A similar proposition was submitted to the legislators during the last session.

The leading Chester White swine breeders of the state will meet in Madison on Friday afternoon, February 7th, for the purpose of organizing the Wisconsin Chester White Breeders' Association. W. F. Belda, of De Forest, and one of Wisconsin's most prominent Chester White breeders and exhibitors, has interested himself in the formation of this association. Prof. James G. Fuller, of the Wisconsin College of Agriculture, will preside at the organization meeting.

William Arnon Henry, former dean of the Wisconsin College of Agriculture, has worked zealously for several years for the enactment of a parcel post law which would permit of the transportation of packages at much more lower rates than have been charged by the express companies. It is here.

Nearly 2,000 square miles in Wisconsin were soil surveyed during the past year by experts employed by the United States Department of Agriculture and the state of Wisconsin. Altogether 8,432 square miles have been jointly surveyed by the federal and state engineers. Complete surveys were made during 1912 of Buffalo, Columbia, Dane, Jefferson, Juneau and Kewaunee counties.

There is a world of useful information to be gleaned from the various seed catalogs. Many hints as to crop-rotation, most profitable crops, new seeds for grain and roughage, will be found in them. Order a goodly supply of them; read, study and profit

HIGH PROTEIN TANKAGE

Guaranteed Analysis

60% .....Protein
10% .....Fat
15% .....Bone-Building Phosphates

When you consider that by feeding SULZBERGER'S HIGH PROTEIN TANKAGE you secure—

(1) Larger hogs.
(2) Higher price per pound.
(3) Less shipping shrinkage.
(4) Cut feeding period 8 weeks shorter.
(5) Save one-third of your feed bill

How can you afford to feed without it?

SULZBERGER & SONS COMPANY
Kansas City Chicago Oklahoma City

F. ALLDRITT'S
ANNUAL SALE
DUROC JERSEY BRED SOWS
Will be held in sale pavilion
ATLANTIC, IOWA
TUESDAY, Jan. 28th

IN this sale offering there will be some fifty head of sows that have been selected from the very best of my large herd. Not a sow listed but that would be a good one in any herd. Fifteen yearling sows, fifteen fall yearlings and the remainder are spring gilts of the very best kind. They are well grown, heavy boned and in good health. The get of such boars as the noted Crimson Wonder Jr. by the great I Am A Crimson Wonder, Billie Davis by Tom Davis, Count Medoc by Medoc, King the Col., Glendale Critic 3d and a few others will be included in this sale. The offering is bred to Crimson Wonder Jr., Count Medoc, Col. Lafollette and C. H.'s Col. I have spared no reasonable expense to put up a good offering. Try and be with us on sale day. Those unable to attend should send all bids to H. S. Allen, representing The Homestead at this sale. Send for catalog at once and mention The Homestead. Address

F. ALLDRITT, 137 No. 25th St., Lincoln, Neb.

Colonels Allen, Kraschel and Lang, auctioneers.

E. E. FARVER'S
EXCEPTIONAL POLAND CHINA BRED SOWS
OCHEYEDAN, IOWA, THURSDAY, JANUARY 30, 1913
40 HEAD ALL IMMUNE 40 HEAD

TRIED sows and gilts by FARVER'S GOLIATH, one of the greatest boars of this type in the very heart of the big-type country. He is not all size, but is smooth and well proportioned, and has gotten pigs after his own makeup. Some of the sows will be bred to him and will be the attractions of the sale. To cross on the sows of my own breeding I bought a boar by the Big Defender, out of Pawnee Belle by Dorr's Expansion, dam Evergreen Susie, one of Dorr's great brood sows. He is a boar of great promise and will grow to one of the real practical big smooth kind. Twenty-two gilts by Goliath in the sale and some more that are safe in pig to him. The rest have been bred to E.'s DEFENDER. Tried sows that have been exceptionally good breeders in my herd will be sold and one of the very choicest lots of gilts is listed for the above date. I would like to send you my catalog so you may judge for yourself the great lines of breeding I am selling. J. A. Benson, auctioneer. Ray L. Gribben, field man.

E. E. FARVER, - - - - OCHEYEDAN, IOWA.

WRIGHT'S BIG-TYPE POLAND CHINA SALE
SALE WILL BE HELD AT THE FARM 3 MILES SOUTHEAST OF
ALLEN, NEBRASKA, WEDNESDAY, JAN. 29, 1913

50 HEAD of mammoth sows bred by myself from the biggest blood I could find. There will be included 6 matured and tried sires, 12 yearlings, and the remainder spring gilts from some of the best sows that I bought last year, together with those that I raised myself. This entire offering is big boned throughout and the gilts are smooth, the sows roomy and the sort that produce size in their breeding. The Wright's big-bone stuff is all characteristically large in bone, and they show him to be a breeder of the best. He is a half brother of Big Jumbo. Other herd boars are big Bone Jim by the well-known Barker boar, Lyon Chief; Big Chief; Big Wonder by Long Wonder 2d, and Long Wonder 2d. The ones of these that I now have on my place have been used on the sows in this sale and with such breeding you will be certain to find something to suit. Write now for the catalogs, as they are ready. Col. W. R. Ritchie will be the auctioneer. Mention The Homestead.

W. M. WRIGHT AND SONS, - ALLEN, NEBRASKA.

Golden Model II. Bred Sow Sale

ON FEBRUARY 11th we will sell 40 Duroc Jersey bred sows, 20 will be bred to the unequaled sire of winners, Golden Model II. Others bred to High Model (grand champion Iowa, 1912), Golden Model 31 (grand champion Sioux City, 1912), and Sensation Wonder (3d Iowa, 1912). Our 1912 herd of show sows are included. More good sows in this sale than will be sold in any other sale this year. Write for catalog mentioning The Homestead. Address

WALTEMEYER BROS., - - MELBOURNE, IOWA.

MASON & BRACKMYER'S DUROC SOW SALE

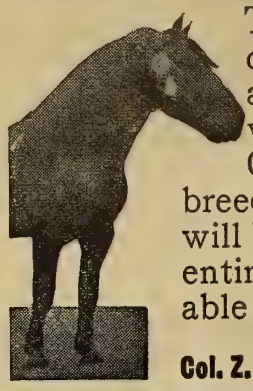
MORRISON, ILLINOIS, JAN. 28, 1913. 50 head of bred sows, sired by S. E.'s Crimson Wonder, State Fair Col., Z. K.'s Col. Bred to Chief Orion, Royal Col. and Mason Wonder. Write for catalog, mentioning The Homestead.

MASON & BRACKMYER, Morrison, Illinois.

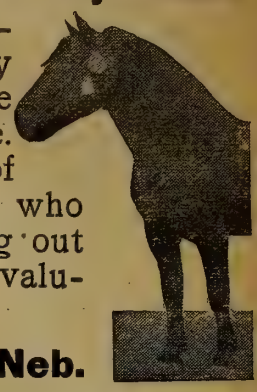
GRAND CLOSING-OUT SALE PERCHERON STALLIONS AND MARES

35 HEAD The Entire Studs of L. M. Phelps, Trumbull; W. D. Phelps, Trumbull, and D. D. Case, Giltner, Nebraska, will be Sold in Sale Pavilion, **35 HEAD**

HASTINGS, NEBRASKA, WEDNESDAY, FEBRUARY 5, 1913



The entire offering is made up of good useful horses. They are all recorded or eligible to record in the Percheron Society of America. Nearly all are blacks, all of working age are broken to work. There will be offered about five stallions that are ready for good hard use. Others will be offered that may be used moderately. The mares of breeding are in foal mostly to the great son of Casino, the noted Monico, who will be sold in this sale. Everything in this sale will sell. We are closing out entirely. Send for catalog, it is full of details of the offering and much valuable information. Address, mentioning The Iowa Homestead.



Col. Z. S. Branson, auctioneer. **D. D. CASE, Sale Mgr., Giltner, Neb.**

McCullough and Hamilton's Great Poland China Sale.

In the sale of Poland China bred sows that will be made at Central City, Neb., on January 30th by O. J. McCullough, Clarks, Neb., and L. W. Hamilton, Kearney, Neb., there will be offered a selection of real big-boned, big-type Poland China sows and gilts that should appeal to the thinking buyer. In this sale there will be much of the get of a number of noted boars and mated to some splendid sires. Price's Jumbo by Chief Price 2d by old Chief Price is one of the leading boars of the McCullough herd. He is one of the breeding boars of the country and comes of a line of good ones. He was used for some little time in the herd of J. M. Coleman, Belgrade, Neb., in which herd he did excellent work. Another boar that Mr. McCullough has in use that we prize very highly is Smooth Big Bone. He is a son of Mr. Herring's noted boar, Smooth Price, and is out of Long Mollie by Big Bone by A Wonder. The dam of Long Mollie is the noted Mouw-bred sow, Mollie Jones 5th. Mr. Hamilton has been using very successfully a boar called Ideal by Smooth Wonder by A Wonder and out of a dam by Thickset by Longfellow. He is a very massive boar with good ten-inch bone and good conformation. Another boar in this herd is Big Sie by Hadley by Big Hadley and out of Maud S. by Commander. These are the boars that the principal part of the offering will be bred to and they are also the sires of many. Other sires represented are Chief Price Again, Price Again by Mastodon Leader, Mc's Union Leader by Wade's Jumbo, Wade's Jumbo and others. The offering is really strong in the very best of breeding and the individuals will please those looking for good hogs. We would like to have you with us at this sale. These hogs will pay you well for coming and if you cannot get away at that time get the catalog at once and make your selections from it and send reasonable bids on same to J. C. Price, of The Homestead, who will be at this sale. Send for the catalog at once and mention The Homestead when writing. See advertisement on page 44.

Marshall's Giant King Sale.

G. F. Marshall & Son, Monroe, Iowa, pioneer breeders of Poland China hogs, announce a public sale of bred sows on January 28th. This firm own the noted Poland China boar, Giant King, and a large percentage of this offering is sired by this noted boar and about ten of the sows are bred to him. Giant King was shown at the Iowa State Fair, 1912, and much favorable comment was made regarding his size, smoothness and heavy bone. Mr. Marshall will sell sixteen fall yearlings and twenty-two gilts sired by Giant King and among them are some good ones. These sows and gilts have never been pushed and will not be carrying the flesh that they should to bring their full value, but this is all the better for the purchaser. The Giant King sows and gilts are bred to Monroe's Jumbo, a son of Mouw's noted Big Jumbo and out of a Big Bone sow. There will be two yearling sows by Long King and two two year olds by him. There will be two litter sisters to Giant King, one by Iowa Lad, one by Pawnee Chief, two by Jumbo and an Expansion-bred sow. Giant King is a son of the noted boar, Big Ex, used in the herd of W. H. Cooper for several years and generally recognized as one of the great boars of the breed. The illustration in the advertisement on page — is a likeness of Giant King in his yearling form. Mr. Marshall has made a record in the Poland China business that dates back many years. His ability to breed and fit the good ones has never been questioned, but his experience has taught him that sows not loaded with fat give the best results in the breeding herd and for this reason he is not loading the sows in this offering with flesh. They are heavy boned, big-framed sows and gilts and have quality. This sale should interest all Poland China breeders and beginners as well, because a sow sired by or bred to Giant King would be a valuable addition to any herd. If you cannot attend the sale a bid sent to Carlos C. Palmer, or C. C. Carlin, Homestead representatives, in care of Mr. Marshall, will receive careful attention. See page 49 and write for catalog, mentioning The Homestead.

Goodenough's Hampshire Sale.

A. L. Goodenough, Morrison, Ill., well-known Hampshire swine breeder, will hold his annual sale at his farm three miles west of Morrison on January 27th. Anyone contemplating the purchase of a Hampshire sow should be interested in this sale, as it will afford one of the best opportunities of the season to secure high-class breeding stock from one of the real constructive breeders of Hampshires. The breeding of Hampshires has not been merely a speculation with Mr. Goodenough, but he has given the breeding business much thought and study and by hard work and perseverance has made a marked success. For foundation stock it is always preferable to get animals bred for several generations in the hands of successful breeders, as these are more likely to introduce the type of animals desired. This is why we can strongly recommend this offering not only to the older breeders, but to the beginners as well. Mr. Goodenough has held several sales and the writer, a representative of this paper, has inspected all these offerings and has been familiar with this herd of hogs for several years, and believes we are in position to say that the fifty-five sows Mr. Goodenough will sell in this sale are by considerable the best lot he has ever offered the public. The offering consists of tried brood sows, fall yearlings and spring gilts. The sires represented in their breeding are the prize winning Shelby Lad, Bon Bon Beauty, Blythedale Jim and Teddy R. B. The sows will be bred to Shelby Lad, first-prize winner at the Iowa State Fair, 1911, and to Dudie, first-prize junior yearling at Iowa, 1912. If you want some good sows attend this sale. If impossible for you to be present send a bid to Carlos C. Palmer, Homestead representative, in care of Mr. Goodenough. Write for a catalog, mentioning The Homestead. See page 52 for advertisement.

The Great Winter Sale of Herefords.

The farmers, ranchmen and breeders of pure-bred Hereford cattle should all keep in mind the great sale of Hereford cattle that will be made by a number of the best breeders in the central West at Grand Island, Neb., February 14th and 15th, under the management of Mousel Bros., Cambridge, Neb. In this sale there will be offered 120 head of cattle especially selected for this sale. There will be seventy-three bulls and forty-seven females and, as said before, those who are in need of cattle should keep this sale in mind, for they will be here and in sufficient numbers to insure that all may be able to secure what they need and without undue competition. Cattle that are the equal of any the writer has ever seen sell will go in this sale. There will positively be bulls and females in this sale that are good enough for anyone, in fact, those who attend this sale will have a rare opportunity to pick from the best of the country. It is not going to be a question of whether or not they are good enough, but it is going to be a question if the readers of this paper can afford to let this opportunity pass without being present. We have seen many of the cattle for this sale and they are positively right. Bulls that will absolutely win money in any show in the country if properly presented. There is no better breeding in the herd books and, all considered, it is one of the great offerings the breed has brought out for some time. Get your name on the list for the catalog. Mention The Homestead when writing. Address Mousel Bros., Cambridge, Neb.

SAM TILLINGHAST'S BRED SOW SALE

Peterson, Iowa, January 31, 1913

40 HEAD the very best in the herd will go under the hammer on the above date. These include ten tried sows, ten fall yearlings and twenty spring gilts. There are many of these that breeders of the best can afford to buy; they are rich in the proper mingling of the blood lines of this breed that meet the practical needs of the man producing hogs of quality and size. Herd boars are the well-known Mastodon Wonder by King Mastodon, dam by A Wonder 107353; Sam's Big Jumbo by the famous Big Jumbo, and I Am King by King Leader, dam by Miller's Happy Tecumseh by Dorr's Tecumseh. Some great tried sows by Long Prospect that are especially worthy of breeders' attention. Colly by Long Prospect raised forty-four pigs in five litters and is safe to Mastodon Wonder. Mention The Homestead when you write for catalogs.

SAM TILLINGHAST, - PETERSON, IOWA.

Col. W. R. Ritchie, auctioneer.

SCHRAM'S POLAND CHINA BRED SOW SALE

TO BE HELD ON THE FARM 6 MILES SOUTH OF

NEW CASTLE, NEBRASKA, THURSDAY, JAN. 30, 1913

36 HEAD of the best sort of brood sows, including ten tried sows, twelve fall gilts and fourteen spring gilts. They are by the following sires: Expansion Prince by Hadley's Surprise, Fair Chief by Chief Price 2d and Hadley's Mogul. For service boars there have been used Hadley's Mogul, Mastiff's Pointer and Valley View Jumbo, a son of Big Jumbo, he by the famous Big Jumbo. The combination of the blood lines used in this herd has been a judicious mingling of the big type and the more medium type, producing hogs that have retained the immense size of the big ones, coupled with that quality that marks the best. It is throughout an offering of the better order, and is worthy of the attention of the best breeders. The catalogs are ready. Write for one today.

Col. W. R. Ritchie, auctioneer.

C. W. SCHRAM, - - - NEW CASTLE, NEB.

The above is a good likeness of one of the choice Poland China boars offered by F. R. Barrett, Cadams, Neb. This boar is a show boar from the ground up. He is a big, smooth fellow and will make some breeder a first-class herd header. See advertisement on page 48 and write Mr. Barrett at once for full description and price.

Smith's Duroc Jersey Sale—Last Call.

This is the last opportunity we will have of calling your attention to the annual sale of Duroc Jersey bred sows to be held by J. E. Smith, Victor, Iowa, January 25th. Mr. Smith will sell fifty head of bred sows consisting of tried brood sows, fall yearlings and spring gilts. They are sired by Smith Crimson Wonder, Royal Colonel, Victor Colonel, Professor Model and Crimson Wonder I Am. They are bred to Mr. Smith's four good herd boars, Golden Prince, Crimson I Am, Victor Colonel and Smith's Crimson Wonder. Smith's Crimson Wonder is the son of Crimson Wonder 3d and has proven a very valuable breeding boar in Mr. Smith's herd. Golden Prince is a son of Advancer 1st and out of a full sister to Model Queen, the Nebraska grand champion sow of 1910. Crimson I Am is the son of Crimson Wonder I Am and out of the top sow in the J. C. Droz sale last winter. Victor Col. is the son of Mr. Morton's noted Premier Col. and out of a line-bred Ohio Chief sow. Mr. Smith is breeding the kind of hogs that are in demand. He sold over fifty boars this fall in a short length of time, which indicates he has the kind that please. Mr. Smith has one of the most complete hog houses to be found anywhere and planned every detail himself. It is a credit to his ingenuity and is well worth while seeing, especially to anyone contemplating the

FESENMEYER'S GREAT BROOD SOW SALE

CLARINDA, IA. FEB. 6, 1913

40 HEAD 40

Ten A Wonder sows or carrying the blood of A Wonder; two Long King sows; one Chief Price 2d sow; one Rood's Tecumseh sow; one choice Chief Price sow.

BIG JOE

I am selling five Big Joe gilts that are outstanding in size and quality. These are mostly out of A Wonder sows and are bred back to A Wonder.

30 Sows Bred to

A WONDER

The greatest living Poland China boar.

A WONDER

IF YOU want to buy sows bred to the greatest Poland China boar that has ever lived, you will necessarily be interested in this great offering. I am selling some of my best A Wonder sows bred to BIG JOE, a boar that is destined to make his mark as a sire and a big fellow. Write for my great catalog and come to my sale or be represented by a bid. Kindly mention this paper when writing for it. Address

COL. H. S. DUNCAN, auctioneer.
M. T. WHITE, field man for The Iowa Homestead.

HENRY FESENMEYER, CLARINDA, IOWA

erection of a hog house. If you cannot attend the sale, send bids to Carlos C. Palmer, in care of Mr. Smith, and they will be carefully handled. See page 50 and write for catalog, mentioning The Homestead.

Duerr's Duroc Sale.

On January 28th, A. J. Duerr, Milford, Neb., owner of the well-known show and breeding boar, Crimson Col., will make a sale of a select offering of Duroc Jersey bred sows. The writer recently called on Mr. Duerr and we are pleased to say that he has a great line-up of sows for this sale. The only place they are lacking is in numbers, for there will be but about thirty head, not over thirty-five, and to make the number already listed Mr. Duerr is compelled to list some of the very best sows that he has on the farm. The great sow, Miss Col. Educator by Educator, is listed. She is bred for a March litter to Crimson Col. Chief's Wonder Lady by Red Wonder and out of a dam sired by the great Golddust Chief by Ohio Chief is another sow of note that sells. She has been a record producer. Queen's Perfection by Red Perfection 2d and out of Harney's Crimson Wonder by I Am A Crimson Wonder, the sire of Beem's noted I Am A Crimson Wonder 2d is also listed. She is bred to Crimson Col. for early litter. There are a few that are bred to Critic King, a son of the 1912 champion, Critic B., and they should prove to be good, as Critic King is a choice boar. He is the making of a big hog and looks as though he would be smooth and he has heavy bone and good feet. Crimson Col. is sired by High Col. by Prince of Cols. and he is out of Flossy D. by Model Wonder. This boar was shown very successfully, both in 1911 and 1912, and as a sire he is the right sort. Mr. Duerr is an enterprising stockman and one of the Duroc breeders of the state who will be heard from later. He is the sort of a breeder whom men older in the business can afford to support, and he has hogs that they can use. J. C. Price will represent this paper at the sale and those who cannot attend may send bids to him in care of Mr. Duerr. All such bids will be carefully attended to. Get the catalog at once, send in your name, for Mr. Duerr does not want to miss you, and when writing kindly mention The Homestead. See advertisement on page 49.

The Bollman-Sharp Great Hampshire Sale.

One of the greatest events in Hampshire swine circles this year will without doubt be the forthcoming sale at Coal Valley, Ill., Tuesday, January 28, 1913. R. L. Bollman and Mike Sharp & Sons have selected ninety of the tops from their herds and when you get a chance to buy the tops of two such noted herds in one auction it sure means something. These are the two old established herds and their renown throughout the Hampshire world is a matter of history. Most every year they show at the big shows of America. These two herds have won more prizes, including silver cups, diplomas, grand championships, championships in class, herd and group prizes than any other herd in the breed at the last International. Their barrows carried off the grand championship, silver cups, etc., while the sows of their breeding swept the platter. You can get the blood that produced all these winners and you know how true the saying, "To produce champions you must mate champions together," and this is sure the opportunity to get this champion blood. The utmost care has been taken in selecting these animals for this sale to get the best and most useful lot in the two herds. The sows and gilts are mostly bred early to their great breeding and show boars. Many of these boars are champions. In selling ninety head it offers buyers a great opportunity to select their needs. It will be a great day. You can meet Hampshire men from everywhere and you will find them the most genial lot you ever met. It is an opportunity Homestead readers cannot well afford to miss. If you cannot come send your bids to H. E. Browning, who will represent The Homestead. Col. Fred Reppert will be the auctioneer. Look up the advertisement on page 46 of this issue and for catalogs write either R. L. Bollman or Mike Sharp & Sons, Coal Valley, Ill., kindly mentioning The Homestead.

Handley's Big-Type Durocs.

On January 29th, at Carroll, Iowa, E. E. Handley will once more make a sale of his noted big-type Duroc Jersey brood sows and he is one of the breeders who always puts up a good offering. When it comes to breeding them big they will all have to take off their hats to Mr. Hanley, and his offering this time is up to the high standard maintained in this herd. He is selling five matured sows and these are all bred to his old grand champion boar, Frankfort K. He is selling ten fall sows in this sale that are sired by Frankfort K. and these are bred to Crimson Chief Again, a son of Nebraska Belle's Ohio Chief, and he in turn was out of a litter sister to old Crimson Wonder. He is also selling twenty-five spring gilts, half of which are sired by Frankfort K. and Ashgrove Col. Among the good matured sows that he will sell is Della's Favorite, a daughter of old Tientsin, bred to Frankfort K.; Model Queen by Model Advance by I Am Advance, dam Queen Model by Clearmont's Model, and she will also be bred to the old boar. Current Lassie by Crimson Farmer by old Farmer Burns is one of his good brood sows and she will also be bred to the same boar. There are several more good sows that he is offering and the catalog will tell you all about them. There will be three splendid gilts in the sale by Crimson Chief Again, three by Golden Model 17th and three by Col. Gano. Also two by Regulus, out of a Walt Model dam, of the Octavia Hill strain. These gilts and the fall sows will have plenty of size and those who are wanting the large-type kind will be interested in the Handley sale. When writing for his catalog kindly mention The Homestead. M. T. White will represent this paper at the sale and will care for any bids sent in his care. See advertisement on page 47.

Van Patten & Son's Durocs.

It was the pleasure of the writer to call on G. Van Patten & Son, Sutton, Neb., the noted breeders of Durocs, a few days ago and we wish to say that we saw a choice line-up of hogs for their sale for February 19th. The offering is much better than the ones offered a year ago, and of a little different blood lines. Quite a few yearling sows sired by Golden Rod King, the 1910 champion, will go in the sale, and a choice lot of young stuff by Uneeda Crimson Wonder and Queen's Col. make up most of the remainder of the offering. Uneede Crimson Wonder is looking well and we must say again that we think he is one of the very greatest boars of the country. The young boar, Model Wonder by Golden Model 4th, and out of Lucy Wonder by Wallace's Wonder by Crimson Wonder Again, is just a mighty toppy young boar and looks like the very thing to mate with Uneeda Crimson Wonder gilts. He is wonderfully good in all parts, but is not quite as long accordingly as Uneeda, but he sure looks like the type to make a hit with Uneeda gilts. Model Wonder is as heavy boned as any boar of his age that we ever saw, if not the heaviest. He has splendid legs and feet and, in fact, is just about right all over. The writer thought that Model Wonder would land well up toward first place at the Nebraska fair last fall in the six months' class, but he was outside the money altogether. We doubt very much, however, if there are any that stood above him that are as good today. Keep Van Patten & Son's sale in mind and plan to be on hand sale day. It is a sale you cannot afford to miss. Mention The Homestead when you write for catalog.

Strictly big-type Poland China boar at the head of the F. P. Robinson herd, Maryville, Mo. See advertisement on page 44.

DAVID BOESIGER'S ANNUAL SALE

DUROC JERSEY BRED SOWS

will be held at farm near

CORTLAND, NEBRASKA, MONDAY, JAN. 27, 1913

THE sale offering will include some FORTY HEAD, most of which are spring gilts and are the get of the great sires, Lincoln Lad by Lincoln Wonder, Crimson Wonder Boy by A Crimson Wonder and C. H.'s Crimson Wonder by C. W. Again. They are the big, smooth ones with plenty of bone, the sort that make good brood sows. The few tried sows are among the very best that I own, and everyone is a proven producer of much worth. Most of the tried sows and many of the spring gilts are bred to

WIDLE'S WONDER,

the boar that now heads our herd. He was first-prize boar at Nebraska this season. He is a son of Uneeda Crimson Wonder and out of the great sow, Scribner Belle. He was the top of Nebraska sales last fall. A sow bred to him should be a good investment. He is a tried breeder. This is your only opportunity to own a sow bred to him this season. Try to be with us sale day. Colonel Callahan, auctioneer. J. C. Price, field man. Address for catalog

DAVID BOESIGER, CORTLAND, NEBRASKA

Get off Union Pacific motor running between Lincoln and Beatrice at stop 82.

DAVIS' HAMPSHIRE SALE

150 Bred Sows and 40 Boars at St. Joseph Stock Yards Sale Pavilion. Tuesday, February 18, 1913. Sale starts 10:00 a. m. sharp. This is the greatest herd of Hampshire hogs in existence. Write for catalog, mentioning The Iowa Homestead.

W. F. DAVIS - - - SO. ST. JOSEPH, MO.

Geo. Briggs & Sons' Durocs.

The writer recently saw one of the best bunches of Duroc sows that we have seen in years. They were on the farm of Geo. Briggs & Sons, Clay Center, Neb. It is not a hard matter to find some choice sows, and in some herds a lot of them, but when it comes to over 100 head that are every one choice, we claim that it is some bunch of sows. That is the kind of a bunch we saw on our recent visit to the above mentioned farm. From these great sows will the selection for the February 18th sale be made. Daughters of the great Lincoln Wonder, one of the best sow sires of the breed today; Cleatham's Pride, a show boar of prominence, and a breeder as well; also daughters of many other great boars will go in this sale. Keep the date in mind and remember that one of the great offerings of bred sows to be sold this season anywhere will go in this sale. Mention The Homestead when you write for the catalog.

Barr & Sons' Poland China Sale.

On February 4th, at Red Oak, Iowa, W. H. Barr & Sons will make a public sale of forty head of Poland China sows and they never fail to put up a good offering. They are selling three matured sows, seven fall yearlings and thirty spring gilts. These are bred to that splendid breeding boar, B.'s Mastodon, Pawnee Sensation and Orange Longfellow. We have seen the Barr & Sons offering and we know whereof we speak when we say they are selling a grand lot of good well-bred sows with as much size as you want and all bred to most excellent herd boars. Mr. Barr is one of the oldest breeders in the West and you can depend on it he is selling a splendid lot of sows in this sale. Drop him a postal card for his catalog and kindly mention The Homestead when doing so. Watch next week's paper for further particulars about their sale.

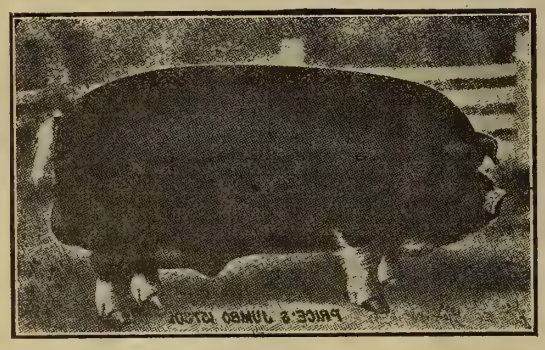
A GREAT POLAND CHINA EVENT

WILL BE THE SALE OF BRED SOWS THAT WILL BE MADE BY

O. J. McCULLOUGH, CLARKS, NEBRASKA, AND L. W. HAMILTON, KEARNEY, NEBRASKA

IN THE SALE PAVILION IN

CENTRAL CITY, NEB., THURSDAY, JANUARY 30, 1913



45 HEAD of big-type sows and gilts make up the sale offering. They are sired by great boars and bred to boars of known value. The get of Price's Jumbo, Mc's Union Leader, Ideal by Smooth Wonder, Big Sie by Hadley, A Wonder Price by Smooth Price and out of a dam by A Wonder, and last, but not least, Smooth Big Bone by Smooth Price and out of Long Mollie by Big Bone. Everything in the offering is either sired by or bred to some of these boars, and they will add value to any herd. There will be plenty of good tried sows and fall gilts and a choice selection of big, stretchy spring gilts. Come to this sale for the good ones. They are certainly here. If unable to attend send bids to J. C. Price, the field man. Colonel Duncan, auctioneer. Send for catalog now. Address

O. J. McCULLOUGH, - CLARKS, NEB.

OR

L. W. HAMILTON, - KEARNEY, NEB.

Freeman's Price Wonder Poland Sale.

More of the blood of the noted boar, Price Wonder, will be found in the sale of Poland China bred sows that will be made by N. B. Freeman, Kearney, Neb., on February 1st, than has ever before been offered the public. In this sale there will be upwards of fifteen head sired by this great boar, and as many others will be bred to him. It will be one of the great opportunities of the year to secure breeding that is right at the fountain head of excellence. Price Wonder first did service in the herd of Chas. Morrison & Sons, Phillipsburg, Kan., in which herd he sired the great Poland China boar of Kansas, M.'s Giant Wonder, owned by John T. Curry, Winchester, Kan. Later he was sold to the well-known breeders of the real big ones, Frank Davis & Sons, Holbrook, Neb., and from this herd he went to head Mr. Freeman's herd and is doing good service. Price Wonder is one of the great sons of the noted boar, Surprise Wonder 4th, that sired some of the most noted of the real big hogs of the country, among them Thos. F. Miller's Long Chief, John Miller's Long Wonder, the sire of Miller's Chief Price, also the sire of A Wonder and many other boars that the writer could mention that are making Poland China history. It will be seen that he comes of a line that has produced, that is producing that type today, and that certainly should be valuable for that reason. Breeders and farmers who wish the extra large Poland China should get the line of breeding that will be found in Mr. Freeman's sale, as it is the line that has produced practically all of the noted big hogs of western Iowa. Many of the Long Wonder sows that go in this sale are bred to Price Wonder and the Price Wonder sows are bred to either Big Wonder or the good son of Big Wonder that Mr. Freeman is using. Personally, we think a great deal of this young boar, we believe that in time he will be the most valuable boar that Mr. Freeman has on the farm and we would not hesitate to buy sows bred to him. He is the real big hog with an extremely great amount of quality for the extra big ones. If unable to attend this sale send bids to J. C. Price, in care of Mr. Freeman, and your interests will be carefully looked after. If you have not the catalog lose no time in getting one. Write immediately. See page 50.

Alldritt's Great Duroc Sale.

Probably one of the best offerings of Durocs to be sold in western Iowa this season will be the one that will be offered by F. Alldritt at Atlantic, Iowa, on January 28th. Mr. Alldritt lives in Lincoln, Neb., and these sows are the tops of his large herd of Durcos maintained at Friend, Neb. Mr. Alldritt is planning on closing them all out this winter and the very best of the herd will go in this sale. He says that the offering will be much better than the ones sold at his farm two years ago, when he made one of the very top sales of the entire country. His great herd boar, Crimson Wonder Jr., is liberally represented in this sale. Many of his daughters are included and quite a few of the others are bred to him. This boar has been siring some of the best stuff in eastern Nebraska the past few years, and in this sale there should be some that will interest those looking for the strictly good ones. Crimson Wonder Jr. is a son of I Am A Crimson Wonder and, so far as the writer is aware, there are only two boars living that are sired by that great young boar. The writer thought that I Am A Crimson Wonder was the very best boar ever shown that was produced by the famous mating of Crimson Wonder Again and the great sow, H. A.'s Queen. He sired but a very few litters, however, before he met an untimely death, and the noted I Am A Crimson Wonder 2d and Crimson Wonder Jr. are all that we know of today. Both of these boars have done a great work. Among the other sires represented are Count Medoc, a son of the noted sire of champions; also Billie Davis by the noted Tom Davis, and Col. Lafollette by King The Col. and out of a daughter of Lafollette. Another choice young boar to which several are bred is C. H.'s Col. by King The Col. and out of a daughter of the noted C. H.'s Special. This sale will afford an opportunity to get some good hogs. The sale will be held in a heated pavilion in the city of Atlantic, Iowa, and every hog will be sold to the highest bidder without reserve. They are being taken to this point to sell and that is what will be done with them. Send for a catalog at once and look it over carefully, and if unable to attend send your bids to the well-known Duroc Jersey breeder, H. S. Allen, who will look after all bids intrusted to him.

Wright's Mammoth Brood Sow Sale.

W. M. Wright, Allen, Neb., will hold his annual sale of bred Poland China sows at his farm, three miles southeast of Allen, on Wednesday, January 29th. This offering is described by those who have seen it as a mammoth one and when it is remembered that Mr. Wright has made his selections from the herds that are full of the very best of the larger breeding that it is possible to find, it is not strange that such a description should be given of it. The herd boar that has been used so well and so long in this herd, Wright's Big Bone by the boar that got Peter Mouw's Big Jumbo, and out of Maid B. 4th, is a large, well-built hog that sires, on the offspring of nearly any mating, a big bone with feet that always are good and puts size on his get as well. Some bred to this boar will be the sort that anyone will want to buy to put stretch in the herd. There will also be sold from the sows a matured sow by Big Bone and out of Maid B. 4th, making her a full sister to the chief herd boar in this herd. She is a big one, is roomy, with heavy hams and shoulders, and is a sow that has always farrowed the biggest litters, the last litter that she farrowed numbering fourteen. Another of the herd boars will be sold in the sale. He is Long Wonder 2d by Long Wonder by Longfellow 7th and out of Orange Pride by the original Chief Price 61861. He is a proven breeder, is a good breeder right now and from the get of his in the herd it will be seen that he has done well. He is guaranteed by Mr. Wright to be all right in every way. This will be a good opportunity to secure a herd boar of unusual breeding and should be considered on attending the sale as well as the sows that are to go through the ring. Another of the herd boars that Mr. Wright has is a son of Lyon Chief, the boar that sired the futurity winners at Des Moines this year. Big Chief by Chief H., a yearling, is a big, rugged boar out of the same dam as Wright's Big Bone. There is in this boar the making of one of the biggest, and with the strongly arched back, length and the bone that he has he will be one of the good ones of the breed. The feature of the offering this year is the fact that so many of the better ones are of Mr. Wright's own breeding, and that he is so willing to stand back of them the way he does. There is undoubtedly much size here and the entire lot is healthy, well grown and a breedy looking collection. Write for the catalogs now and please mention The Homestead when you do. Mr. Wright will appreciate this. Address W. M. Wright, Allen, Neb., as per the advertisement on page 41.

ROBINSON'S SALE OF MAMMOTH POLAND CHINA SOWS AND GILTS

MARYVILLE, MISSOURI, WEDNESDAY, JANUARY 29, 1913

50 HEAD: 21 fine tried sows, 3 fall yearlings, 26 big, toppy spring Gilts 50

PAWNEE PETE 55115, one of the truly great 1,000-pound boars, is the sire or the grandsire of seventeen head. His dam, the great **Miss Corwin 2d**, is included. **Prince Ito 56611** and **Prince Tom 5616**, sons of the great Bell Prince, are sires of many. They are bred to **Prince Tom**; **Fred Jamison** by Pawnee Pete; **Montecello Boy**, a prize-winning son of Big Expansion, and **Spotted King** by Long King's Equal. All bred for size and quality and I know they will please you if you want big hogs that make good. All vaccinated with Missouri state serum. Send for catalog and note the best guarantee on mail bids ever put out. R. P. Hosmer, auctioneer. A. T. Cole, representing The Iowa Homestead. Address

F. P. ROBINSON, MARYVILLE, MISSOURI

De Young's Practical Brood Sows.

A. J. & L. L. De Young, Sheldon, Iowa, will offer a strong draft of brood sows from their herd on January 24, 1913. The sale will be held at L. L. De Young's on the northeast corner of Sheldon in comfortably heated tent. One of the features of this herd which will commend itself to the prospective purchaser who is primarily interested in market hogs is the record made by various animals that Messrs. De Young have sent out to men who are raising a better grade of hogs to sell packers. Two different men have sent fat hogs sired by De Young-bred boars to Chicago and sold them at the top of the market. The real purpose of raising pure-bred stock of any variety is to produce stock of the highest market type to feed more economically and mature more quickly than common stock does. If the boars sent out from a pure-bred herd do not do this when mated with good sows, then there is something wrong with the ideals which have governed their breeding. If, on the other hand, they do accomplish such a result, then the herd is a practical one, worthy of the utmost consideration by both farmers and breeders. The boars which head these herds are good ones, carrying the best blood lines. King of Cols. Again by King of Cols., dam by Orion Chief, is a litter brother to the great Defender which sold recently to E. S. Mayes, Jr., Springfield, Ky., the highest boar of the breed now existing and twice the champion of the breed at the International Show at Chicago. King of Cols. Again is a good boar today and has sired a great lot of high-class animals, some of which will be included in the De Young sale. A son of his, Phalas Col., out of a daughter of old Phalas, has proved one of the best breeding boars that John De Young has ever had on his place. L. L. De Young has been using Crimson Advance by Advance 5th and on his dam's side combining the Ohio Chief and Crimson Wonder lines. A number of the gilts are by him and are a well-grown, strong-backed, stretchy lot with quality. Crimson Col. is the sire of about one-fourth of the offering and some of the gilts are bred to him. He is a product of the Sol Frank herd and one of the good show boars produced there. The service boars include Big Bone Climax by Crimson Climax, dam Challenger Girl V.I., is a strongly bred Crimson Wonder boar, an early selection from the choice of O. S. West's herd at Paullina. Model Chief I Am is a fall yearling boar by Model Chief Jr. which is as good a fall boar as is in northwestern Iowa. Look him over sale day and you will see a great boar. There are sows in this sale of great brood sow qualities, one especially a granddaughter of Perfection Wonder on the sire's side and Phalas on the dam's side. She is a sow of good caliber. The older sows have bred prolifically in the past and are in right shape to go ahead and repeat in other herds. Send for catalogs of the sale and study the great lines of breeding offered. Ray L. Gribben will represent The Homestead and will handle bids conscientiously. When writing for catalog mention The Homestead. Ad-

Keepsake 2d, grand champion Hampshire sow at the International Live Stock Exposition, owned by Sal Tone Farm, Greensburg, Ind.

FRANK IAMS' 1912 IMPORTED HORSES

Ikey Buyers—Get Into "Iams' Money Saving Game." See Iams and his "Peaches and Cream" Imported Stallions, "Prize Winners," that he sells at $1,000 and $1,400 (few higher). Imported mares—"Topnotchers"—at $700 and $1,000.

"Ikey," Be a "Wise Guy"—Buy 'Show Horses" of Iams—who has crossed the Ocean 30 times for horses and sold 4,444 Registered Horses. "Iams' 30 years of Success" make him a safe man to buy from at Special Low Democratic Prices. "Everybody Is Doing It."

Iams and Peaches and Cream Percheron Paris Winners.

Of big, classy, wide-as-a-wagon "Peaches and Cream" imported stallions and mares have arrived at St. Paul, Neb., by "special train." "Ikey Boy," smile, and Iams' hundreds of satisfied customers "will sit up and take notice" that Iams, the "King Bee" horseman, is still in "horse business," and good for 50 years, as the "Peaches and Cream" horseman. Iams hypnotizes buyers with "real drafters" at bargain prices, and having "the goods" as advertised. Iams' "competitors" and "hammer knockers" are "boosting Iams" by their "knocks" and making him on "Easy street" and known as the "millionaire horseman." Iams is selling these big, fancy "Black Boys and Girls" cheaper than ever before. Of more and better horses for the money—$1,000 and $1,400 (few higher). Iams has

"100 PERCHERON AND BELGIAN STALLIONS AND MARES"

They are two to five years old, weight 1,700 to 2,500 pounds, 80 per cent blacks, 60 per cent "ton horses." All "registered," approved and inspected by Governments of France and U. S. and certificates "stamped O. K." All sound," "bell-ringers" ("Iams' kind—need no "State Law" to make "them sound"). Many paris prize winners, big flash actors. They are "eye openers"—larger and better horses than you see elsewhere—big "business propositions" that make "the wheels" work fast under a "live buyer's hat." "Georgie, dear," Iams, the business horseman of 30 years' experience, made a "big killing" by buying his 100 stallions and mares in France and Belgium in October and November, 1912. "War scare," "bad crops," "close money" and Iams' "cash" caused the "topnotchers" and prize winners" to be thrown on the market (as the best horses and prize winners are not sold in Europe until the last part of the season). Iams will give his buyers the benefit of his "good luck" in buying. "Ikey Boy," come on down town—sing Iams' song—"Everybody Is Doing It."

BUY "TOPNOTCHERS of IAMS AND SAVE $1,000"

Iams is a "big fly in the ointment" in the horse world. He keeps the "gang guessing." His daily "horse show" will be a day of "pleasure and profit" and worth going 2,000 miles to see. Iams sells only "topnotchers" and "crack business stallions" and "mares." He handles no International "tail ends," no "auction stuff" or peddlers' stallions—no American-bred full bloods of questionable breeding—(only imported horses). Iams has the "real pure drafters" and makes every statement good. Buy of Iams and you won't get "stung" in horse or price. "Dollie D.," waltz me around once again, "Ikey," and land me at Iams' four importing barns and box office filled to the roof with "Big Black Boys and Girls" at "reduced prices." All the world knows Iams, the big horseman, who sells Iams' "Peaches and Cream" "brand" of draft horses. 1912 was Iams' best business year. 1913 promises to be a "bumper year" to Iams and his customers. He saved $300,000 to his customers in 1912. "Watch his smoke" in 1913. Iams' 30 years of successful horse business makes him a safe man to do business with.

HE SELLS HORSES "ON HONOR"--A BOY OR LADY

Can buy as cheap as a man. Iams is the "square deal" horseman. Buyers will find every statement in his advertisement or catalog as represented or you get the $500 Iams hang up. Iams guarantees to

SELL YOU A BETTER STALLION at $1,000 and $1,400

(few higher) than are sold to "stock companies" at $2,500 and $5,000. Imported mares $700 and 1,000. Iams gives 60 per cent breeding guarantee, pays freight on horse and fare of one buyer. He can furnish $1,500 insurance at cost. Iams buys and sells every stallion himself—saves buyers all middlemen's profits. He buys stallions by "train load." He speaks the languages (saving 20 per cent). He is not in "stallion trust." He pays no "slick salesman" commissions. He has no two to ten partners to share profits. He pays cash for horses and sells "topnotchers" by "hot" advertising and having "the goods." "Big Ikey," leave your happy home, December 20, 1912, or after, and buy a "top stallion" and pair of imported mares that bring colts that sell at $500. "Papa," don't let those "auction men" "hand you a lemon" in one of those "so-called" "American Full Bloods" with questionable breeding. Buy an imported stallion or mare of Iams that is "branded" and you will "wear diamonds." Iams' "selling clothes" fit all buyers—you won't leave Iams without a horse. He sells horses to all. Write for Iams' million-dollar horse catalog. Iams' guarantees are backed by "half million dollars." References: First National and Omaha National Banks, Omaha; Citizens State, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL - NEBRASKA

dress A. J. & L. L. De Young, Sheldon, Iowa.

Farver's Extra Good Poland China Bred Sow Offering.

On page 49 of this issue E. E. Farver, Ocheyedan, Iowa, announces his annual sale of Poland China brood sows, to occur on Thursday, January 30th. This is an offering of great interest to breeders of the larger type of the breed, for the herd has at its head a boar that is unquestionably one of the highest ranking sires within the breed today, considered both as an individual and as a producer of the kind of breeding stock that is so strongly in demand at the present time. He is Farver's Goliath by Chief Price 2d and out of Mabel Crow by Hadley Expansion. This is only the top part of his pedigree, but to go back of even this part will not show a single animal with a poor record. It is full of the best breeding all through. He is a boar that many competent judges who saw him last summer at Mr. Farver's considered as great a show prospect as any that were being fitted then in any herd, and although it is easy to guess at things there are a great many who have seen this boar both before and after the fall shows who think that he would have been up at the very top among the aged and champions. He weighed at thirty months of age 915 pounds and was smooth, with a wide and strongly arched back, well proportioned all through, right on his feet and legs, and a big, breedy appearing boar. Quite a number of gilts sired by him will go in the sale and there will be several which will be bred to him that will be sold, so he is one of the most prominent features of the entire sale. The younger herd boar is also one of a great deal of promise and has developed already to a pretty good sort. He is called E.'s Defender, is sired by the boar, Big Defender, that was sold this past fall to go to Illinois at a big figure. The pig at the time he was sold was considered by his breeder, Henry Dorr, to be one of the very best pigs that the Defender boar got. The female side of the pedigree is of the richest breeding. The first dam is Pawnee Belle by Dorr's Expansion, second dam Evergreen Susie, one of the great producing sows in the herd that produced the pig. The litters that will be farrowed by the gilts sired by Farver's Goliath and bred to this young boar will be extra well bred, and if the blood that is back of them counts for anything at all men buying sows at this sale will be the possessors of some mighty good stock of this breed. An unusually strong attraction in this sale is the tried sow, Lady Surprise by Crow's Big Surprise, one of the best and most prolific sows in the herd and a sow that will weigh 600 pounds by the day of the sale. She was bred to Goliath and is now safe to service of November 13th. This is very good breeding to own and a tried sow that has shown that she is a good breeder ought to farrow a great litter from that mating. No. 3 in the catalog is Lady Tecumseh, out of the sow that has done so well in this herd, Fannie Blackbird. Lady Tecumseh is the mother of mighty good boars, among them being Gummert's Minnesota Goliath, and she is as good as anything that will be sold this year of this sort. She was bred to the Defender boar and that mating surely looks good. A big sow by A Wonder 143421 and out of a dam by the old A Wonder 107353, which will weigh around 700 pounds, is one of the good things in the sale. An extrt large yearling by Colosso and out of Mollie Fair 6th, bred to Goliath, will be one of the good things for breeders in this sale. There are a lot of tried sows and yearlings in this sale that are of the same class as this and it will pay you to send for the catalog to see just what an extra good offering this really is. The gilts have grown to a good size, going as high as 340 pounds on December 24th. The heaviest gilt is out of a daughter of Hadley Expansion and is sired by Farver's Goliath. The old boar has put the size on her and the gilt is bred to E.'s Defender. The entire lot of gilts have done well and are in extra fine shape to go ahead in their breeding service. It should be remembered that this herd is immune from disease. For the catalog address E. E. Farver, Ocheyedan, Iowa, and please mention The Homestead when you write See advertisement on page 41 of this issue.

Choice Hereford Bulls are Offered.

With this issue of The Homestead G. G. Clement, Ord, Neb., is starting an advertisement offering Hereford bulls. Mr. Clement is a Hereford breeder well known to Homestead breeders, as his advertisements have appeared in this paper for years, but for the benefit of new subscribers the writer would like to say that he is one of the peer breeders in the country today. He is a man who understands the fundamental principles of producing choice live stock and the country and the Hereford breed are today better, much better, than they would have been without the efforts of this energetic and progressive breeder and stockman. Possessing a rare knowledge of pedigree and individuals that compose these pedigrees, it has helped Mr. Clement to make selections that he could not have made without this knowledge. After all, that is what pedigrees are kept for, but many breeders say that they cannot remember blood lines, and probably they do not make the matter as close a study as they should, for it is only by knowing what is back of your herd bull for generations on both the side of his sire and dam that you can hope to have any idea as to how he will breed. On this point Mr. Clement can enlighten most breeders, and those who write to him for information concerning these bulls will be given an idea as to how they will cross with their herds, if they will state the blood lines of same. This matter is of less import to the ranchman, but the fact that they have come from generation after generatioon of excellent stock will make them more valuable for his work. Sons of the great Fast Freight, Beau Donald 128th and the champion, Sensation, are for sale. Ask about them. They are all bulls that have made reputations as sires are show bulls. See page 39.

Larson's Great Offering.

On January 30th O. S. Larson, Logan, Iowa, will make a great sale of Duroc Jersey brood sows and he will offer forty head of as good ones as he has ever driven into a sale ring and every one immune and cholera proof. Twenty-five of these will be bred to King The Col., the sire of the noted boar, Col. Gano, and this will be the greatest opportunity ever offered to buy sows bred to this noted boar. Here are a few of the choice sows he will offer: Col.'s Beauty, a wonderfully good daughter of the old grand champion boar, B. & C.'s Col., bred to King The Col. November 13th; Ella's Belle by Proud Col., bred to King The Col. November 21st; Nancy Golddust by Golddust Jim II., bred to Crimson Wonder Chief November 17th; Grand Lady by Grand Master Col., bred to King The Col. December 2d; Lady Logan 2d by Goddard's Col., bred to King The Col. November 17th; Lady Dace by King The Col., bred to Golden Model XI. December 12th; Miss Belle by King The Col., bred to old Liberty Chief January 6th; Lady Jewell by King The Col., bred to Select Chief December 11th. The above are all yearling and matured sows and are as good as he has ever sold. He is selling twelve splendid fall sows and two of these, Crimson Lady 4th and Crimson Lady 5th, are both full sisters to Col. Gano and they are bred to Select Chief for early litters. The balance are bred to old Liberty Chief, King The Col. and the Chief Select boar. He is selling some good sows by Golden Model XI. and Col. Willetta. Also nineteen choice gilts, one a full sister to Col. Gano and bred to Select Chief for an early litter; two by Chief Select, bred to King The Col., and two good Advancer gilts bred to the same boar. Another good Col. Gano gilt goes in bred to Liberty Chief and a good C. H.'s Special gilt is bred to King The Col. The Larson offering this year is one that is going to appeal to the best breeders in the land because he has the goods to offer and they are bred to some of the greatest boars now living. You will necessarily want to see his catalog, which will be sent on application. When writing for it kindly mention The Homestead and M. T. White will represent this paper at the sale. See page 51 for Mr. Larson's advertisement.

Osborn's Sow Sale.

On February 1st O. E. Osborn, Weston, Iowa, will make his annual Duroc Jersey brood sow sale, and he will dispose of forty head of the best he has now on the place. Mr. Osborn is one of the oldest breeders today in the state and in his time has bred them as good as anybody. One thing Mr. Osborn can point to, and that is that the Durocs he has sent out from his herd have always done well for those who bought them invariably made money on them and many of our leading show winners have come from his herd. He is selling five matured sows in this sale and some of these are outstanding good brood sows. One of the best of these is that great sow, Chief's Last Pansy, one of the few remaining good daughters of old Ohio Chief. She is not only a very excellent sow herself, but she is a wonderfully good brood sow. Her dam was a first-prize sow at the Iowa and Nebraska State Fairs and she in turn was one of the greatest sows out that year. This sow is bred to the splendid boar, King Gano, the top boar last fall in the W. H. Seddon sale. He is selling two splendid Model Critic sows and these are bred to Osborn's Crimson Col. He is selling two good sows sired by Osborn's Prince of Cols. and eight choice fall sows by the same boar. He is selling twenty-seven choice gilts that are sired by Osborn's Chief Select, a boar that he sold at Des Moines for $600, and the rest will be sired by Osborn's Prince of Cols. He is selling some outstanding good February gilts in his sale that are sired by Osborn's Prince of Cols. and these are out of daughters of old Lafollette, Crimson Critic, Model Critic and other well-known sires. Many of these will be bred to Valley King Again, the top boar last fall in the Barker Bros. & Crowell sale. We can always recommend Mr. Osborn's Durocs because we know just what the outcome will be. He is selling a splendid lot of sows bred to very excellent herd boars and it will be a good place to buy. Write for a copy of his catalog and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Osborn, will be properly handled on day of sale. See advertisement on page 41.

90 HEAD HAMPSHIRE SWINE AT PUBLIC AUCTION

The Property of
R. L. BOLLMAN
and
MIKE SHARP & SONS

Sale to be held
at
COAL VALLEY,
ILLINOIS

TUESDAY, JANUARY 28, 1913

MOST of the noted prize winners at the leading stock shows of America were bred by us, many being exhibited by us. We have won more prizes the past three years at state fairs and the International than any herd in the land. We are not selling show hogs, but the ones that produce show animals. They are bred to our noted boars that have produced our champions, and we are also using Cherokee Lad 9029, a boar that was never defeated in class; also Dr. John 11063, 1st prize International 1912. Many animals will be offered that will make prize winners if fed out. We are selecting only the tops from our two herds and when you come to the sale you will see the best lot of HAMPSHIRES ever exposed for auction. The catalogs are ready for mailing. Cet on our list. Be sure and come. If you can't come send bids to H. E. Browning, representing The Homestead. Such bids will be used with entire confidence and to your interest. Col. Fred Reppert, auctioneer. For catalogs address either

MIKE SHARP & SONS, or R. L. BOLLMAN, COAL VALLEY, ILLINOIS

J. O. James' Sale Poland Chinas.

On Friday, February 7th, J. O. James, Braddyville, Iowa, will make his annual sale of brood sows and he is offering fifty head in this sale. That he is selling a good offering goes without saying, as he is selling twenty-two daughters of the celebrated boar, Big Orange, in the sale, and ten head of sows will be bred to him. He is selling three matured sows and the remainder will be spring and fall yearlings and some extra choice gilts. He is selling three splendid fall sows by Big Sensation and a number of sows in the sale will be bred to him. Quite a number of the sows will be bred to Ott's Big Orange, one of the best young boars used today in western Iowa. Ott's Big Orange is a fall yearling and he weighed 550 pounds at twelve months old, and he is a boar with all kinds of bone. The remainder of the sows will be bred to Gritter's Best, A Wonder Giant, A Wonder B and Big Orange's King. He is selling eighteen spring gilts and three fall sows by Big Orange, and mostly bred to Big Sensation. Many of the gilts will weigh 400 pounds or better by sale day. Nos. 1 and 2 weigh 360 and 370 at this writing. These two gilts are Anna Orange and Anna Big Orange. These are litter sisters to the Elijah Story and Thos. Walker boars that sold in his fall sales at $225 and $200. They are also full sisters in blood to the Gutchall boar, Jumbo Orange, and Ott's Big Orange. No. 1 is much the same type as the Story boar, and No. 2 is a trifle larger. The former, however, has more quality, while the latter has more size. They are both bred to Big Sensation for early March litters. Nos. 3 and 4 are Model of Oranges and Marie Orange, out of Model of 1907. They are a pair of good ones and are bred to Big Sensation. Nos. 6 and 7 are Exey Orange and Exey Orange 2d, out of Exey by Pawnee Giant. No. 8 is Queen Orange, another good one out of Pawnee Queen and bred to Big Sensation. No. 13 is a splendid big gilt by Big Orange and out of Hadley Giantess. No. 16 is Orange Maid out of King Giantess by old Long King and she is bred to Big Sensation. There are a number of other good Big Orange gilts in the sale and there is not a poor one in his offering. There will also be daughters of Pawnee Nelson and Long King's Equal in his sale, and these are very good. Among the good sows he will sell is Giantess M., an 800-pound sow, a litter sister to Long King's Equal, and she cost Mr. James $245, so you know she is a good one. She is bred to Big Orange for a March 1st litter. Other sows bred to Big Orange are Black Giantess 2d by Pawnee Lad, Nelson Price by Big Price; Model Ex by Big Ex, out of Model of 1907. Exey, Anna S., Anna S. 3d and Black Anna S. Rose Sensation and Rose Sensation 2d are two splendid fall sows that are large and smooth and are bred to Big Orange. Altogether he is selling a splendid lot of sows bred to some of the best-known big-type boars in the West. His catalog is now ready and can be had for the asking. When writing for it kindly mention The Homestead. M. T. White will represent this paper at the sale and any bids sent in his care will be attended to. See advertisement on page 50.

Long's Poland China Sale.

One of the earlir Poland China sales that will be held this winter will be that of James G. Long, at Harlan, Ia., on January 24th, and he is going to sell sixty head in this sale and he will sell some good ones. As a special attraction he will sell four daughters of old A Wonder, and two of these are full sisters to his great herd boar, B Wonder, who in turn is regarded as one of the greatest sons of Fesenmeyer's old boar, A Wonder. He is also cataloging thirty daughters of B Wonder in the sale and the most of these are bred to his other 1,000-pound boar, Mastodon Leader. Mr. Long has drawn upon the very best sows he has had in his herd for this sale and he is going to trot out some good things that the breeders and the farmers of western Iowa and the entire West will want. We just want to say this about daughters of B Wonder: They have invariably gone out into other herds and have made good. Mr. Long has time and again had tempting offers for this boar, B Wonder, but would never part with him. Some of the best breeders in the West have been wanting him, and if he is good enough for the "big fellows," why are his daughters not good enough to buy and put into your herd? The two sisters of B Wonder that he is selling in the sale are two of the best daughters of old A Wonder that will be offered this winter. The gilts that he will sell are daughters of Mastodon Leader and Proud Model. Some of these are bred to Mastodon Leader and Black Surprise, the latter boar being a son of old Gold Medal. It will be a splendid place to buy brood sows and the sale will be held in the Harlan sale pavilion and will be heated and comfortable for all those who attend. Mr. Long's catalog is ready and can be had for the asking. When writing for it kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Long, will be properly attended to on day of sale. See advertisement on page 50.

AN IOWA STATE FAIR CHAMPION.

The subject of this illustration is the Duroc Jersey hog, Freed's Col., that won grand championship at the Iowa State Fair in 1910 against what was probably as strong competition as has been found on the Iowa State Fair grounds. Better than his winning quality, however, has been his excellence as a breeder. In Mr. Freed's herd there are spring gilts, fall yearlings and tried sows, daughters of this hog that will compare well with those to be found in any other herd. A fair proportion of them will be sold at the sale announced to take place January 20th. There will also be a splendid collection of brood sows of other and popular lines of breeding, which have been bred to this hog. Taken all together, the consignment is one which we are glad to recommend to our readers. It contains quality from start to finish, blood lines of the most prominent character and thrift and health that are a guarantee of future usefulness. Mail or telegraph bids may be addressed to C. C. Carlin, of this paper, who will be in attendance. Catalogs may yet be obtained by writing to S. P. Freed, Ames, Iowa.

Recent Sales at Pioneer Stud Farm.

John G. Truman, manager of the Pioneer Stud Farm, Bushnell, Ill., writes: "Last week we had the pleasure of selling to William Sampson, Will county, Illinois, the Shire stallion, Lilleshall Forester. He is a gray, four years old, one of the wide-as-a-wagon kind, standing on the very best of feet and joints, tremendous knees and hocks and good pasterns. It will be remembered by your readers that this horse was purchased by us at the Peterboro (England) Shire horse sale for 340 guineas. He is perhaps the only son of the noted Lockinge Forest King that has been imported to this country. Mr. Sampson has been breeding Shire horses for many years and was at the International on the lookout for a horse good enough to stand at the head of his stud and decided that Lilleshall Forester was the only horse at the show that pleased him. He is an Englishman and knows what a good horse is. Arthur Bass, Boxbutte county, Nebraska, has also purchased an outstanding imported Shire horse in Bury Skipper, five years old, weighing considerably over a ton, with extraordinary style and action and his conformation certainly entitles him to rank among the very best draft horses in his state. Our new 1913 catalog is now ready for distribution and will be forwarded to any of your readers who are interested in draft horses." See advertisement on page 55.

Last Call Eakle's Duroc Jersey Sale.

On Tuesday, January 21st, S. E. Eakle, Prophetstown, Ill., will sell forty-five very select sows and gilts bred to his great herd boars, S. E.'s Defender, S. E.'s Premier Col. and Captain Model. The offering is a finely bred lot. Two sows are by the great Model Chief and one by Proud Advance and others. Two sows are bred to S. E.'s Defender and two sired by him will be offered and several half-sisters. Many are sired by S. E.'s Premier Col. and bred to Captain Model. Others are offered by S. E.'s Top Col. Many are by the good sire, Manley. One good sow is by Defender. Mr. Eakle will sell eight gilts by S. E.'s Crimson Wonder. They are a nice lot. He has used his usual good judgment in fitting and handling this offering. The sale will be held in Prophetstown in good, warm, comfortable quarters. Free entertainment. Everybody is invited. If you cannot attend the sale send bids to H. E. Browning, Homestead representative. For catalog and further information write S. E. Eakle, Prophetstown, Ill.

HANDLEY'S BIG-TYPE DUROC JERSEY SOW SALE

CARROLL, IOWA, WEDNESDAY, JANUARY 29, 1913.

40 Head--5 Matured Sows, 10 Fall Yearlings and 25 Gilts.

Five of the best matured sows in my herd will be bred to Frankfort K.

Fifteen Spring Gilts in the sale sired by Frankfort K.

The 1,000-pound champion boar at Sioux City.

The Largest Herd of Strictly Big-Type Durocs in the West.

Daughters of Col. Gano, Frankfort K, Crimson Chief Again, Golden Model 17th, Regulus, Tientsin, Model Advance, Ashgrove Col., Chief I Am and others.

If you are a believer in maintaining the strictly **big-type** Duroc, then come to my sale. I will show you some of the largest Duroc sows that will be sold in the state this winter. **I buy the big ones, I breed the big ones and I raise the big ones.** I am selling 10 fall sows by Frankfort K, and a lot of spring gilts that cannot be beaten for size and quality. Write tor my catalog at once and mention Iowa Homestead. Address

COL. N. G. KRASCHEL, Auct. M. T. White field man for The Homestead. **E. E. HANDLEY, Carroll, Iowa.**

Frank Roberts' Sow Sale.

On Friday, January 31st, Frank Roberts, Earlham, Iowa, will make his first annual public sale of forty head of well-bred, big-type Poland China brood sows, and he is selling a good offering. Mr. Roberts has two splendid boars at the head of his herd, and these sows will all be bred to them. One of these is Pawnee Wonder, a son of Fesenmeyer's old A Wonder, and his dam is Giantess Adair by Big Price, and he is by old Pawnee Lad. His second dam is Giantess Again by Rood's Tecumseh. This boar is a combination of A Wonder, Giantess, Pawnee Lad and Tecumseh breeding, and he is not only a splendid boar himself, but he is also a good breeding hog. Few boars of his age carry more bone than does this boar, Pawnee Wonder, and his get seem to be gifted with the same good qualities. Several of the best sows will be bred to him, and most of the gilts will be sired by him. His other boar is Giant Jumbo, a son of Big Jones 3d, and he is out of Wigstone Bros.' famous show sow, Hunt's Giantess. Here is another good boar and all of the Pawnee Wonder gilts are bred to him. Mr. Roberts is selling six of his very best sows with litters and the pigs are mostly sired by Pawnee Wonder. No. 1 of catalog is Quality Adair, a daughter of Will Shrader's celebrated breeding boar, Choice Look. This sow is out of a daughter of Big King and he is a son of old Pawnee Lad. She is a 700-pound sow and is bred to Pawnee Wonder. No. 2 is Giant Look, a daughter of Mart Sheehan's well-known boar, King Giant, and she is out of a Choice Look dam. She is a good sow and will have a litter by sale time to Pawnee Wonder. No. 3 is Long Mollie, a daughter of Expansion Jumbo, and her dam is a daughter of Expansion King Jr. This is one of the very best sows he is selling in the sale. This sow has a little swirl on her rump, but she is such a good sow that breeders cannot afford to pass her up. Three other good sows are Rosebud and Miss Cora and Smooth Lady and these are both daughters of Expansion Jumbo and these will have litters by Pawnee Wonder. The gilts will be sired by Pawnee Wonder, Victor Hadley and King Wonder, and he has some well-bred ones in his offering. He will also sell a splendid team of Shire-bred mares that is about the best team in his section of the state. Both of these are bred and safe in foal and anybody who is looking for a spanking good team of Shire-bred mares will like this team. Another feature of his sale is the twenty choice steers that he is selling. These are three year olds and will weigh from 1,300 to 1,400 pounds. Some man who wants a good bunch of steers will find these are all right. Mr. Roberts's catalog is ready for distribution and will be sent free for the asking. When writing for it kindly mention The Homestead. See page 49.

Nash's Poland China Sale.

One of the important sales of Poland Chinas to be made this season is the one to be made by J. T. R. Nash, Minden, Neb., on February 8th. The writer recently saw the gilts to be sold in this sale and we wish to say that we consider them the best we ever saw on the Nash farm. They are principally the get of the noted Gold Medal, one of the great sons of the noted Gold Metal. The writer said last fall that we thought he would prove one of the greatest sow sires of the country. The bunch that are his get and that will go in this sale will about prove that assertion to be a fact. Most of these big, roomy gilts are bred to Long Jumbo, the boar that topped O. E. Wade's sale last fall. Long Jumbo is a big-boned, smooth boar with extra length and the making of an extra large boar. This will be the place to buy a gilt to raise your next year's herd boar. Keep the sale in mind and if you have not been receiving the Nash catalogs send in your name at once that it may be put on the list. When writing kindly mention The Homestead.

Seddon's Great Sale.

On January 31st, W. H. Seddon, Persia, Iowa, will make his annual Duroc Jersey brood sow sale, and he is one of the breeders that never fails to put up a great offering. Mr. Seddon is the man who brought out Col. Gano, a boar that is regarded as one of the greatest Duroc Jersey boars now living. He is selling two good tried sows by Col. Gano in this sale, and also seven spring gilts by him. He will also sell from twelve to fifteen sows bred to Col. Gano, and these should certainly be attractions enough to breeders of Duroc Jerseys. He will sell daughters of Chief's Protection, C. H. Special, Golden Model 11th, Freed's Col., Clovercroft Chief, C. & E.'s Prince of Cols., Chief Select, A. F.'s Pilot Wonder, seven choice gilts by Col. Gano and six by King The Col. One of the best Chief Select gilts that he will sell goes in bred to Col. Gano. As a special attraction he is going to catalog that great sow, O. R. She is a line-bred Ohio Chief sow and she cost him $280. She will be bred to Col. Gano. A great many of the sows that he is selling will be bred to Model Select, a son of Chief Select, and he is one of the best sons of that noted boar now doing service in the West. The six gilts by King The Col. are good and should be sought after by our very best breeders. As you know, this boar, King The Col., is the sire of Col. Gano, and the gilts in question are out of a Golden Model 11th dam. Those of our readers who want sows with plenty of size will be particularly interested in the Seddon sale and those who want sows bred to Col. Gano will find here is a good place to buy them. His catalog is now ready and can be had for the asking. When writing for it kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Seddon, will receive proper attention on day of sale. See page 51.

Barrett Offers Choice Herd Boars.

The well-known breeder of Poland Chinas, F. R. Barrett, Cadams, Neb., is offering the readers of this paper one of the best opportunities to secure some first-class herd boars at low prices that has been presented this entire season. He is offering a number of fall boars of early farrow and sired by his choice herd boars that should certainly meet with approval. Mr. Barrett is a man who has been raised in the business of breeding Poland China hogs. The herd that he now owns has been maintained on the same farm for a number of years and the fact that Mr. Barrett says that some of these boars that he is now offering are as good as he has bred in twenty years is conclusive evidence that they must be right. The boars that have been used in the herd in recent years are Bell Boy, a son of Nebraska Jumbo and out of Bakewell's Peach by Expansion, and generally conceded to be one of the best, if not the very best, sow Expansion ever sired. The next boar is Jumbo Tom by the great Wade's Jumbo and out of the great breeding sow, Long Wilkes by Imperial Wilkes. This boar was used for some time and sold for a long price and then a full brother, but younger, has been placed at the head of the herd. The boars for sale now are of this line of breeding and, as stated above, can be bought well worth the money. If you need a show boar or a breeding boar Mr. Barrett can certainly fill your order. Barred Rock cockerels can also be had from this farm and they, too, are from good foundation stock that has been kept up by frequent additions from the best yards of the entire country. They are priced at from $1.25 to $2.50 each. Our readers need not hesitate to order at once, for a breeder who has been in business as long as he has is a safe one to do business with. See page 48.

O. E. OSBORN'S SALE

DUROC JERSEY BROOD SOWS

WESTON, IOWA, FEBRUARY 1, 1913

40 HEAD MATURED SOWS, YEARLINGS, GILTS 40

HERD BOARS—KING GANO, the top of the Seddon sale; VALLEY KING AGAIN, the top of the Barker Bros. & Crowell sale.

INCLUDED will be **Chief's Last Pansy,** one of the greatest living daughters of Ohio Chief, bred to King Gano; two **Model Critic** sows; two daughters of **Osborn's Prince of Cols.;** eight fall sows by **Osborn's Prince of Cols;** twenty-seven choice gilts by **Osborn's Prince of Cols.** and **Osborn's Chief Select.** A great offering bred to two of the greatest young boars living. Catalog ready. Write for it. Address

O. E. OSBORN, WESTON, IOWA

Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead.

Attention is called to the W. H. Seddon sale of Duroc Jerseys at Persia, Iowa, January 31st. Also R. J. Harding's sale of Duroc Jerseys at Macedonia, Iowa, February 3d.

PLATTE COUNTY JACK AND JENNET SALE

Of EIGHTY HEAD at the FAIR GROUNDS at PLATTE CITY, MISSOURI, TUESDAY, FEBRUARY 4, '13

FIFTY HEAD OF JACKS from 14½ to 16 hands high. Yearlings to matured jacks, many with show records. Others that have sired American Royal and state fair winners. **Twenty jennets,** yearlings and up, including jennets with jack colts at side.

NO BETTER OFFERING WAS EVER PLACED BEFORE THE PUBLIC

Each animal offered will be sold under the owner's statement and guarantee.

THESE JACKS ARE SIRED BY MAMMOTH MISSOURI, KENTUCKY AND TENNESSEE JACKS

The kind that our state and nation are proud of. You are invited to come the day before, as all of the jacks will be in their stalls and numbers on them corresponding with the catalog numbers. Coming the day before will enable you to measure and mark the animal that you wish to buy. If you desire a catalog write the sales manager for one.

J. B. DILLINGHAM, Mgr., PLATTE COUNTY JACK SALES COMPANY

Dillingham Sells 100 Head Big-Boned Poland China Sows Feb. 15, 1913.
This advertisement appears but once.

100 HEAD HIGH CLASS HAMPSHIRES 100

From the herd of C. P. PAULSEN, NORA, NEB., will sell at farm midway between NORA and OAK, NEB., on SATURDAY, JANUARY 25, '13

SOME of the highest-class HAMPSHIRES that have ever been offered anywhere in the West will go in this sale. They are descended from

the very best breeding in the herd books, they are well grown and in good health. There will be hogs to suit all comers, and plenty for all. Spend the day with us if possible. Free hotel accommodations at Nora or Oak. Send all bids to J. C. Price, field man. Address for catalog,

C. P. PAULSEN - - - - NORA, NEBRASKA

Colonels Reppert, Teeters and Mason, auctioneers.

POLAND CHINA SWINE.

COOPER'S GREAT BRED SOW SALE, HEDRICK, IOWA, FEBRUARY 4TH

AS USUAL, this offering is selected from our herd with the greatest consideration, to present to our visiting friends greater attractions than any preceding effort and we assure all comers one of the very greatest and best offerings of real big bred sows and gilts to go this season in the corn belt. We will include 25 head of 2-year-old and yearling tried sows, several fall yearling gilts and big, stretchy spring gilts weighing over 400 lbs. sale day. These sows are sired by such boars as Big Bone 2d, our present 860-lb. 2-year-old boar, Big Ex, Giant Look, Superior Look, Big Chief 2d, Chief Ideal, Chief I. X. L. 2d and other noted boars the catalog will give. They will be bred to Big Bone 2d, Big Expansion, a son of Dorr's Expansion, Chief Leader and Giant Chief. Send for our catalog. It will be interesting to you, in the big-type blood lines. Arrange to come and see one of the corn belt's best big-type herds of Poland Chinas and one of the most complete swine breeding plants. Mention The Homestead. Address

W. H. COOPER - - - HEDRICK, IOWA

The Bloomington Horse Sale.

Over 300 head of registered draft horses will be sold at the big breeders' sale at Bloomington, Ill., Tuesday, Wednesday, Thursday and Friday, January 28th to 31st, inclusive. The sale will be held in the big coliseum, so that everybody will be comfortable, no matter what the condition of the weather. Percherons, Shires, Belgians and Clydesdales are all included in this offering, and the following are some of the contributors: Ben Bohlander & Son, ten imported Percherons, stallions and mares; James Loonan & Son, eleven head of imported and home-bred Percherons; D. Augustin & Sons, Percherons; Wm. Richardson, Percherons; W. C. Baughman, eight Percherons; John Witt, Percherons and Belgians; D. S. Forrest & Son, eight Percherons; W. H. Ritter, imported Percheron and Belgians; A. V. Hodgson, Percherons; J. H. Weaver, Percherons; Woulf Bros., ten imported Percherons and Belgians; Turnipseed & Stewart, Percheron stallions and mares; Lonzo McClain & Sons, ten imported Percherons; Leigh Bros., Percherons; Ed Miller, Percherons; W. W. Down, imported Percherons and Belgians; J. R. Prendergast, Percherons; Junkin & O'Neill, eight imported Shire mares with size and bone; Rowe Bros., Shires and Percherons; L. F. Boyle, Shires and Percherons; J. W. Otto, Shires; Chas. Miller, Shires; Ray Dern, Shires; F. W. & H. C. Challand, Shires; A. L. Bryan, Jr., Shires; S. L. Good, Shires. In addition to the draft horses there will be sold sixty head of Shetland and Welch ponies, contributed by Earl M. Dixon, O. M. Dooley, Warrick Jones, A. W. Otis, I. J. Yoder and others. The last day, Friday, January 31st, in addition to the ponies, there will be sold fifty trotting-bred and carriage and coach horses, as well as a few good saddlers. Regarding this sale Manager Hurt writes: "We have not got as large a number of horses as we sometimes get for the breeders' sale, but we are short on stabling. As a consequence we were compelled to cut down our entries, enabling us to pick the best horses of all breeds, and as a result we believe that we are going into the sale ring this time with the very best bunch that we ever sold. The catalog, which is now ready for distribution, proves this fact. We want everybody interested in good draft horses to attend this sale." The advertisement appears on page 53. Lock it up and send for a copy of the catalog to C. W. Hurt, manager, Arrowsmith, Ill. When you write kindly mention The Homestead.

Rude & Son's Last Call.

On January 22d, Rude & Son, Moorehead, Iowa, will make a public sale of forty-five head of well-bred and well-conditioned Duroc Jersey brood sows and it will be one of the good offerings that will be sold in western Iowa this winter. Every sow they have cataloged for this sale has been selected with the view to the good she will do for the man who buys her. Not a poor sow has been cataloged, and as for breeding they are just as good as you will find in the books. Daughters of such well-known boars as Grand Master Col., Lafollette, Col. Willetta, Proud Col., Iowa Col., Model Chief's Last and Golden Wonder will be sold in this sale, and in many instances these are about as good as these boars have ever sired. Many of these will be bred to High Chief, the first-prize junior yearling boar at the Iowa State Fair in 1912, while fiftteen of them will be bred to the 900-pound boar, Iowa Col., that is one of the smoothest big boars today in the state. A few of the sows will also be bred to a son of Crimson Wonder Again. There will be twenty sows in the sale bred to High Chief. It is a high-class offering from beginning to end and we urge those of our readers who want some well-bred sows and some good individuals to make it a point to attend this sale. Their catalog is now off the press and will be mailed upon application. Kindly mention The Homestead when writing for it. Bids sent to M. T. White, Homestead representative, in care of Rude & Son, will be properly handled on day of sale.

Platte County, Missouri, Jack Sale.

The Platte County, Missouri, Jack Sales Company, under the management of J. B. Dillingham, Platte City, Mo., will sell fifty head of Mammoth-bred jacks on Tuesday, February 4th, on the fair grounds, Platte City, Mo. The breeders interested are listing some of their best stock in jacks that stand from fourteen and one-half to sixteen hands high. They range from yearlings to matured jacks which will enable purchasers to get jacks of any age they desire. Jacks that have made show records, others that have sired American Royal and state fair winners are listed. Platte county jack breeders have been particularly successful in producing a class of jacks that sire prize-winning mules and there will be listed in this sale jacks that have sired prize-winning mules at the American Royal and the leading mule shows of northwest Missouri. Twenty jennets ranging from yearlings up and including jennets with jack colts at foot will be sold. Each animal sells under the owner's statement and guarantee. Mr. Dillingham, who has full charge of the sale, requests all who can to come the day before the sale, as all the stock will be in the stalls and numbered so that buyers can inspect them. For catalogs address J. B. Dillingham, Mgr., Platte City, Mo., and kindly mention The Homestead when doing so. See advertisement on page 47.

FOR SALE--BIG-TYPE, PROLIFIC, BRED GILTS

AT from $35 to $40, and aged sows at $50 to $60, and a few choice September 3d fall pigs at $20. All healthy and the kind that sell at sight. Will sell two herd boars after January 1st. Address

J. B. HEISEL, - Grinnell, Iowa.

Shade's Closing-Out Sale.

Duroc Jersey breeders will be interested in the closing-out sale of J. A. Shade & Co., at Kingsley, Iowa, on January 21st, because of the high-class lot of sows and boars that they will sell at that time. Missouri Model Top, the champion and grand champion boar at the American Royal in 1911, will be included, as well as about twenty of his get. This boar was also the sire of the first-prize boar, first-prize sow, first-prize litter at that same show, and one of these sows will also go into this sale. This boar is as active as ever and has been doing splendid work in this herd. He is two years old and will be three in the spring. He is a son of Model Top, the boar that went to Bardwell & Barnard, of Kentucky, at $600, and he is out of a dam by Prince of Cols. Were it not for the fact that

they are closing out this boar would not be sold at any price. Their younger boar is King Superba, a son of old Superba, that Harry Browning sold a half interest in for $1,500. Here is a good young hog and will make a good herd boar when matured. Nearly all of the sows in the sale will be bred to these two boars. All of their celebrated brood sows will be sold, among which will be twenty head by Missouri Model Top, others by Ohio Chief, Prince of Cols., Premier Col., Carl's Col., American Royal, Iowa Notcher, Defiance and two by Searchlight. One of these was first in class, junior and reserve and grand champion at the American Royal in 1912, and the other is just as good. If you are going to want some good Duroc Jersey brood sows, or a splendid herd boar, here is your chance. It is one of the really great offerings of the winter season. Write J. A. Shade & Co., Kingsley, Iowa, for a copy of their catalog and kindly mention The Homestead. Bids sent to our M. T. White, Homestead representative, in care of the above firm, will be cared for on day of sale.

Chas. Herring's Last Call.

One of the important big-type Poland China brood sow sales to be held this month will be that of Chas. Herring, at Columbus, Neb., on January 23d. Mr. Herring owns that noted boar, Smooth Price, the sire of Fesenmeyer's Big Joe and Pfander's Big Ben, as well as many other splendid herd boars, and this in connection with the splendid lot of sows that he will offer should make his sale one of the very attractive ones of the season. He will sell thirty head of Smooth Price sows in the sale and ten of his best sows will be bred to him. Two splendid daughters of Gallman's noted boar, Big Bone, will be sold bred to Smooth Price, and one of these will weigh 900 pounds. A couple of full sisters to Big Joe will go in and one of these is very choice. A daughter of old A Wonder, three daughters of Orange Chief and six daughters of Long Wonder will also be attractions in the Herring sale. A few gilts by Long Wonder and Smooth Price are outstanding good ones. From the standpoint of "big type bred in the blood of the most noted large-type sires of recent times" the Herring offering is full of good things, and it will be a good place to buy some good sows. Catalog can be had for the asking by mentioning The Homestead when writing for it. Our M. T. White will represent The Homestead at the sale and will care for any bids sent in his care.

50 HEAD POLAND CHINA SOWS FOR SALE 50

WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.

WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address

E. F. ESCHER - - - MANNING, IOWA

40 CHOICE POLAND CHINA FALL PIGS BY GOLD MEDAL 40

I HAVE selected 40 of the very best of a big crop of fall pigs, all sired by the great breeding boar, Gold Medal, one of the very best breeding boars in Nebraska today. Many have pronounced the bunch of spring gilts by him that I will sell in my February 8th sale to be the best bunch of young sows in the West. That is the sort of stuff he sires, and as I am keeping a big number of sows for spring farrow, will sell these fall pigs while they last, singly or in pairs, $12.50 to $15 each. Order at once and mention The Homestead when you write. Address

J. T. R. NASH, MINDEN, NEBRASKA

BIG WONDER, 2d Prize Iowa State Fair Boar

WEIGHS 1000 pounds and the greatest hog today of the breed. Sow sale March 1, 1913. Drop me a card for catalog. Address, mentioning The Homestead,

FRED SIEVERS, - - - - AUDUBON, IOWA.

BIG-TYPE POLAND BRED GILTS

THESE gilts are sired by Longfellow 2d 183143, and Giant Wonder 183147, and are bred to Giant Wonder, L.'s Wonder by Gritters' A Wonder Again and Orange Jumbo by Mouw's Tecumseh Jumbo. Gilts are out of sows by Longfellow, Long Wonder, Miller's Chief Price, Big Orange and Beauty's Jumbo. Write for price, mentioning The Homestead.

THOS. LIEN, ELGIN, IOWA.

IMMUNED POLAND BOARS AND GILTS

THESE are the real Nebraska big-type Poland Chinas. They are from big litters and are now in fine breeding condition, having been immuned in early summer. I am pricing them very low as I need the room for my fall pigs. Order at once mentioning The Homestead.

G. A. WIEBE, - - - - BEATRICE, NEBRASKA.

BAIRD'S POLAND CHINA BRED SOW SALE

ON Saturday, January 25th, I will sell a draft of 45 of my big-type Poland China sows, bred for spring litters. 30 head bred to the thousand-pound champion, Columbus. Send in your name for catalog. Entirely sold out of those fall pigs by Columbus.

R. B. BAIRD, Central City, Nebraska.

Poland China Sows AND GILTS FOR SALE

BRED to Big Bone, a fall yearling out of Fesenmeyer's A Wonder and Gritters' Top and a spring boar out of A Wonder and Matchless Giantess, good heavy-boned boars. Address

BERTEL HANSEN, R. 2, Alta, Iowa.

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address

C. H. PORTER - EAGLE GROVE, IOWA.

Herd Headers

OF early fall farrow from one of the oldest Poland China herds in West. Heavy boned, thrifty and big. As good as I have bred in twenty years. The kind that will cost $100 a little later and be worth the money. A small part of that will buy them now. Also see my ad in Barred Rock department.

F. R. BARRETT - CADAMS, NEB.

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address

E. V. Waugh, Greeley Center, Neb.

POLAND CHINA FALL PIGS

SIRED by Naiman's Expansion and out of choice old sows and large litters are now for sale at $12.50 each, 3 for $35.00. 50 head to pick from. Order at once. Address John L. Naiman, Alexandria, Neb.

POLAND CHINA BRED SOWS Sows by our 1,000-lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.

P. S. & S. BARR, - Davenport, Iowa.

PLEASANT VIEW HERD of big-type Polands. Stock for sale, both sexes and all ages. **RING BROS., Newton, Iowa.**

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks. James H. Duncan, Lone Oak Farm, Lineville, Iowa.

B. B.'s WONDER FOR SALE

I AM offering my splendid bred boar, B. B.'s Wonder, a grandson of old A Wonder, for sale, and he is a good one. Address

BEN BROUGHTON, Lake View, Iowa.

BERKSHIRE SWINE.

Now is the Time to buy pig flesh from Spring litters—

BERKSHIRES

All pure Berks from Morgan Farm. Morgan Hogs win laurels everywhere. 50 spring gilts bred or unbred, 30 spring boars, 5 yearling boars. Be sure and write before buying.

MORGAN FARM Beloit, Wisconsin

BRANXHOLME FARM BERKSHIRES

WE offer for immediate sale eleven splendid spring boars. These carry the blood of Masterpiece, Premier Francis, Lord Premier's Rival and other noted boars. Prices reasonable and satisfaction guaranteed. **MacDonald Bros., Montezuma, Ia.**

BIG-TYPE BERKSHIRES

JUNE and July pigs, both sexes, $15. Earlier boars $17. Yearling farmer boars $20. 30 bred sows and gilts $30 to $60. **WEST WIND FARM.**

M. A. O'BRIEN, R. 2, Reedsville, Wis.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address

C. D. Nichols' Live Stock Co., Cresco, Iowa

MULE-FOOTED SWINE.

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address

DR. W. J. CONNER, LABETTE, KANSAS.

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale.

Samuel Johns, Sec. A., Wilmington, Ohio.

TAMWORTH SWINE.

KNOLL SLOPE TAMWORTHS

BREEDING of the highest order. Boars and gilts of spring farrow. The kind that makes for profit. Let us continue to do business together. Write me.

C. C. ROUP, - - - KALONA, IOWA.

A. J. Duerr's Annual Sale

DUROCS

To be Held at Golden Glow Stock Farm, Near

MILFORD, NEB., TUESDAY, JAN. 28, '13

30 HEAD of bred sows will be listed for this offering. They include daughters of Educator, Red Wonder, Red Perfection 2d, Harney's Educator and a few other sires of note. Nearly the entire offering is bred to the great **CRIMSON COL.** and the remainder are bred to **CRITIC KING** by the 1912 champion, Critic B.

In order to get the number to make this auction I am compelled to list a number of the very best sows that I own. They are producers of good stuff, having been retained from last spring for that reason. Being bred to the great show and breeding boar, Crimson Col., I have every confidence in their worth. Your presence will be appreciated. Try and be with us sale day. This sale follows the sale of David Boesiger, Cortland, Neb., and the train service between points is extra good. Colonels Thompson, Page and Wickham, auctioneers. J. C. Price, field man. Address for catalog

A. J. DUERR, **MILFORD, NEBRASKA**

GIANT KING SALE OF BIG-TYPE POLAND CHINA BRED SOWS

TO BE HELD

MONROE, IOWA, TUESDAY, JAN. 28, '13

50 HEAD will be sold, consisting of forty-eight bred sows and two fall boars. There will be sixteen fall yearling sows sired by **Giant King,** the noted son of Big Ex that had so many admirers at the Iowa State Fair in 1912. Two yearlings and two two year olds by the noted Long King are listed. There will be two-year-old sows by Big Ex, Iowa Lad, Pawnee Chief, Jumbo and others. Twenty-two spring gilts by Giant King make up the balance of the sow offering. The two fall boars by Giant King are corking good ones and should go into good hands. Ten of the sows will be bred to Giant King and the balance are bred to Monroe's Jumbo, a son of Peter Mouw's Big Jumbo and out of a sow by John Gallman's noted Big Bone. Bids sent to Carlos C. Palmer or C. C. Carlin in my care will be carefully handled. Write me for catalog. Mention The Homestead.

G. F. MARSHALL & SON, **MONROE, IOWA**

W. B. Duncan, auctioneer.

CLOSING-OUT SALE OF PERCHERONS

of W. R. WILSON, Deceased, at

ARISPE, IOWA, WEDNESDAY, JANUARY 22, 1913

THEY consist of twenty-one registered Percherons, eighteen mares and fillies, including four imported ten mares, five and six years old, balance home-bred mares and fillies. The mares are all safe in foal to the herd horse, weighing 2,300 pounds. This herd horse is five years old and considered one of the best individuals in this state and a sure breeder; he and two of his stallion colts will be sold and they are top good ones. Col. R. W. Stream, auctioneer. The farm will be sold privately. Address

MRS. ALLIE COX, Administratrix, **ARISPE, IOWA**

JAMES WILLIAMS, MARCUS, IOWA

DUROC JERSEY BRED SOWS

WEDNESDAY, JAN. 22, 1913

42 HEAD of tried sows, fall and spring gilts of the choicest blood lines, and including some great types as well. Some of the best brood sows I have ever owned will be cataloged in this sale. Here are a few: Golden Queen 8th by Golden Model II., bred to Model Chief VII.; her daughter, Golden Queen 9th, by Ohio Blossom Col.; Miss Notcher Tolstoi by the famous Iowa Notcher, out of Lady Tolstoi 3d; Model Beauty 1st and 2d by Model Chief VII., dam Beauty Sensation, and a lot of other similarly bred sows. The gilts are by Model Chief VII. which gives them nice bone and stretch, and it will be found that they have a lot of quality besides. The herd boars are Model Chief VII., Col. Scott Jr. and Golden Col., all being bred in the purple. Get in your order for some of this better stock early and you will be sure of some real bargains. Ray L. Gribben will attend the sale for The Homestead in your interest. Address

Col. F. F. Luther, Auctioneer.

JAMES WILLIAMS - - - MARCUS, IOWA

RUDE & SON'S DUROC JERSEY BRED SOW SALE

MOOREHEAD, IOWA, JANUARY 22, 1913

45 HEAD: 14 MATURED SOWS, 7 FALL SOWS, 24 GILTS 45

THIS is the best offering we have ever sold and no better will be sold this winter. We have selected fourteen of our very best matured sows—daughters of **Lafollette, Col. Willetta, Grand Master Col., Proud Col.** and **Golden Wonder.** The seven fall sows are sired by **Iowa Col., Golden Wonder** and **Model Chief's Last.** We have also selected the best gilts we have in the herd for this sale. These will be bred to our two great herd boars, **HIGH CHIEF,** first prize Iowa State Fair boar, and **IOWA COL.,** the 900-pound son of Tippy Col., and a few are bred to a son of Crimson Wonder Again. Write for our catalog and mention Homestead.

RUDE & SON, **MOOREHEAD, IOWA**

Col. N. G. Kraschel, auctioneer. M. T. White, field man for Homestead.

FRANK ROBERTS' SALE

BIG-TYPE POLAND CHINAS

40 HEAD---10 Matured Sows, 30 Gilts---40 HEAD

EARLHAM, IOWA, FRIDAY, JANUARY, 31, 1913

I AM selling **six choice sows with litters at side.** Also some of the very best tried sows on the farm, viz.: Quality Adair by **Choice Look,** bred to my great boar, Pawnee Wonder; Long Molly, Miss Cora and Rosebud, all daughters of Expansion Jumbo; also daughters of **King Giant, Victor Hadley** and **Pawnee Wonder.** The Pawnee Wonder gilts are all bred to **Giant Jones,** a son of Big Jones 3d.

I will also sell **twenty head of fat steers** that will weigh from 1,300 to 1,400 pounds, also a pair of **Shire bred mares,** the best in this part of the state. Write for my catalog at once and mention The Homestead. Address

Col. H. S. Duncan, auctioneer. **FRANK ROBERTS, EARLHAM, IOWA**

KUPER BROS.' SECOND ANNUAL SALE

DUROC JERSEY BRED SOWS

BELLEVUE, IOWA, THURSDAY, JANUARY 30, 1913

30 HEAD will be sold, consisting of ten yearlings and two year olds and twenty spring gilts. The sows are sired by The Professor, Muncie Chief, Model Wonder, Protection Col. II. and Col. High Bred. Three gilts by Springfield Wonder, two by S. E.'s Premier Col., one by Proud Ohio Chief, one by Protection Col. and the balance are by Ames Col. (second-prize senior yearling boar at Iowa State Fair, 1912). The sows are bred to Ames Col. and Young Premier, a son of S. E.'s Premier Col., and out of a Golden Model 6th sow. Write us for catalog, mentioning The Homestead.

KUPER BROS., **BELLEVUE, IOWA**

Theo. Martin and G. Fruin, auctioneers.

B. C. MARTS' SALE OF DUROC JERSEY BRED SOWS

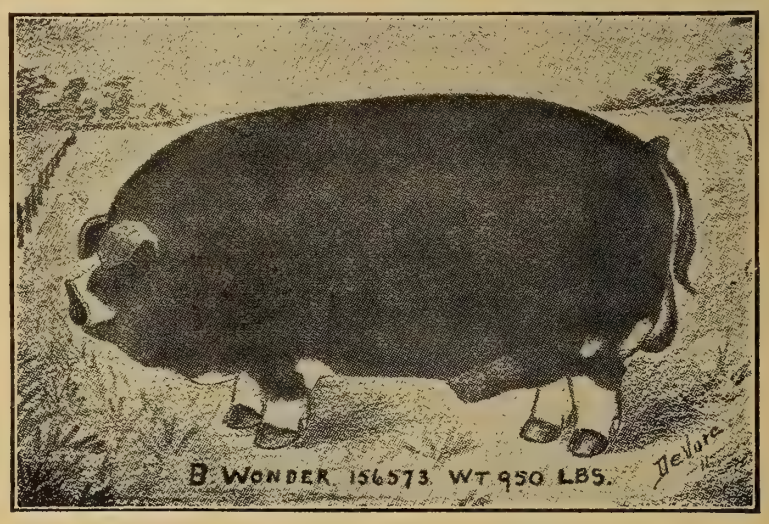
AT HAMPTON, IOWA, WEDNESDAY, JAN. 22

40 BRED sows. The offering consists of tried sows, fall yearlings and gilts bred to our great herd boars, **Chief's Model 104713** by Model Chief by Ohio Chief and out of City Queen by Advancer; WONDER AGAIN 118151 by Crimson Wonder I Am and, HAMPTON KING 102077 by Model Jr. by Model Chief Jr. by Model Chief and dam by American Royal Jr. From point of individuality and blood lines I feel confident in saying that a better lot of stuff will not be offered this season. Send for a catalog, mentioning The Homestead, and arrange to attend the sale. Sale will be held in feed barn in town. Auctioneers, Mossman Bros. Homestead field man, Carlos C. Palmer. Address **B. C. MARTS, Hampton, Ia.**

JAS. G. LONG'S GREAT SALE
B WONDER BRED SOWS

HARLAN, IOWA, JAN. 24, 1913

30 Daughters of B Wonder in Sale.
4 Daughters of Old A Wonder.
(Two litter sisters to B Wonder.)



THESE A Wonder and B Wonder sows are as good as have ever gone through an Iowa sale ring. There will be twenty-two choice gilts by my 900-pound boar, Mastodon Leader and Proud Model. These will be bred to Mastodon Leader and Black Surprise. Write for my catalog and mention Iowa Homestead. Address

JAS. G. LONG - - - HARLAN, IOWA.

Col. N. G. Kraschel, auctioneer.
M. T. White, field man for Homestead.

J. E. SMITH'S ANNUAL SALE
OF
DUROC JERSEY BRED SOWS

To be Held at His Farm 3 Miles Southeast of

VICTOR, IOWA,

SATURDAY, JANUARY 25, 1913

50 HEAD will be sold, consisting of 20 fall yearling sows, 5 tried brood sows and 25 of the top spring gilts I raised this year. The fall sows are a grand lot, being sired by Smith's Crimson Wonder, my great herd boar, he a son of the Nebraska champion, Crimson Wonder 3d, and Royal Col., the great son of King of Cols. that I used in my herd so successfully. The gilts are sired by Royal Col., Victor Col., a good son of the noted Premier Col.; Professor Model, a son of Model Wonder and out of a Professor dam, and the noted Iowa grand champion, Crimson Wonder I Am. The sows will be bred to my four great herd boars, Smith's Crimson Wonder, Victor Col., Crimson I Am by Crimson Wonder I Am and Golden Prince by Advancer 1st and out of Miss Hope, the dam of Golden Model 2d. It is my ambition to offer the public better sows each succeeding year and I feel that I have a much better offering this year than I have had at any time in the past. If you want to buy some good Duroc sows this sale will afford you an opportunity to do so at reasonable prices and I will do my part to accord you courteous treatment in our business transactions. Write me for catalog, mentioning The Homestead. Send bids to Carlos C. Palmer, in my care. Auctioneers, N. G. Kraschel and J. L. McIlrath.

J. E. SMITH - VICTOR, IOWA.

FREEMAN'S GREAT SALE
POLAND CHINA
BRED SOWS

Will be held in sale pavilion in

KEARNEY, NEBRASKA
SATURDAY, FEBRUARY 1st

40 HEAD of choice big-type sows will make up the offering, all of popular blood lines, every one in fine condition, and ready to go on and do well for the buyer. Some of the greatest big-type sires of the breed are liberally represented in this sale offering. They are bred to boars equally as great, and especially the noted

Price Wonder 114279

a son of the great Surprise Wonder 4th and a sire of national reputation. Others by the great breeding boar, **Long Wonder**, and they are bred to the great breeding boars, **Big Wonder** and a son of Big Wonder and also Price Wonder. There are twenty-five sows, five fall yearlings and ten spring gilts. Hogs to suit those looking for good hogs, well bred and well cared for. Send for catalog at once. Mention The Homestead when you write. Address

N. B. FREEMAN, Kearney, Nebraska.

Colonel Duncan, auctioneer.
J. C. Price, field man for The Homestead.

J. O. JAMES'
BIG ORANGE OFFERING

BRADDYVILLE, IOWA, FEB. 7, 1913

50 HEAD Matured Sows, Yearlings, Spring Gilts **50 HEAD**

22 Daughters Big Orange, 10 Head Bred to Big Orange
3 Big Sensation Sows Bred to Big Orange

Nos. 1 and 2 will be litter sisters to the Elijah Story and Thomas Walker boars that topped my fall sales at $225 and $200, and they are outstanding good ones. I am selling a grand lot of gilts sired by **OTT'S BIG ORANGE**, and quite a few sows are bred to him. There will also be gilts by **Big Sensation, A Wonder Giant, Gritters' Best, Pawnee Nelson**, and **Long King's Equal**. Catalog now ready. Write for it at once and mention Homestead. Address

J. O. JAMES, BRADDYVILLE, IOWA

Col. H. S. Duncan, auctioneer. M. T. White, field man for Homestead.

O. S. LARSON'S
Great Sale
KING THE COL. BRED SOWS
LOGAN, IOWA, JAN. 30, 1913

I AM selling 25 choice sows in my sale bred to that great sire, **KING THE COL.** (the sire of Col. Gano, one of the greatest boars now living). I am selling a great daughter of the grand champion boar, B. & C.'s Col.; two choice gilts by Chief Select; two full sisters to Col. Gano, and others by Golden Model 11th, Proud Col, and other well-known and prize-winning sires. I am also selling four daughters of King The Col. in my sale. Catalog can be had by mentioning The Homestead when writing for it. Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead. Address

O. S. LARSON, LOGAN, IOWA

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I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,

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Sale tent free with services. Write for dates

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DUROC JERSEY BRED SOWS
PERSIA, IOWA, JAN. 31, 1913
40 HEAD TRIED SOWS, YEARLINGS, SPRING GILTS 40
12 sows in sale bred to my sensational boar, COL. GANO

THERE will be twelve to fifteen sows in my sale bred to Col. Gano, one of the greatest prize-winning and breeding boars now living. I am also selling daughters of Chief's Protection, C. H.'s Special, Golden Model 11th, Freed's Col., C. & E.'s Prince of Cols., Clovercroft Chief and A. F.'s Pilot Wonder. These are bred to Col. Gano and Model Select. Two brood sows and seven choice Col. Gano gilts in my sale. Catalog can be had by writing for it and mentioning The Homestead. Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead. Address

W. H. SEDDON, PERSIA, IOWA

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KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. Mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa**

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50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

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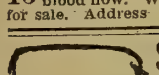

200 Spring pigs, 25 fall boars, sired by Gold Mine, Modeller Boy, Proserity and Young America. The best I have ever raised. Also choice sows and gilts. Write me for prices and further information. Address

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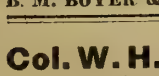

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40 head of pure-bred males for sale. Sired by Jumbo Chief and Captain C. I have good length, heavy bone, well-proportioned individuals. Satisfaction guaranteed. Shipped on approval. Address Frank A. Gould, 1¾ miles N. of Rockwell City, Ia.

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LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address

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I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address

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WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rowen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

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GOOD lengthy gilts, weighing 200 pounds, safe in pig. Price $30 each. Sire, Michigan Chief, an 800-pound boar at two years old. Address

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SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

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CHOICE registered Chester White swine. Both sexes, not akin. Farmers' prices. Pedigrees free

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FOR SALE. O. I. C. bred gilts, sired by Frost John 33658, Ed's Choice 34278, H. C. Russell 35144; choice dams. Farrow M'ch, 1913. E. A. Taylor, R. 1, Boone, Ia.

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IN AN OFFERING OF

HAMPSHIRE BRED SOWS

AT THE FARM NEAR

MORRISON, ILLINOIS,

MONDAY, JANUARY 27, '13

55 HEAD will be sold, consisting of 25 mature sows, 8 fall yearling sows and 22 spring gilts. The mature sows are sired by Teddy R. B., Bon Bon Beauty and Perfectum, a son of Bon Bon Beauty. The gilts are all sired by Shelby Lad and Perfectum. The sows will be bred to Dudie, first in the junior yearling class at the Iowa State Fair, 1912, and Shelby Lad, first in the junior yearling class at the Indiana State Fair, 1911. I will hold no sale in 1914 and for that reason I am cataloging a number of the very tops of my herd that otherwise I would not think of selling. This is the best lot of Hampshires I have ever sold at public auction and you will say so when you see them sale day. I raised them to sell and they are yours at your own price on January 27th. Write me for catalog, mentioning The Homestead, and arrange to be my guest sale day. Send bids to Carlos C. Palmer, Homestead field man, in my care, and they will be honorably treated. Fred Reppert, auctioneer. Address

A. L. GOODENOUGH, MORRISON, ILLINOIS.

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped out. Can ship by Adams or U. S. Express. Write today. MIKE SHARP & SONS, COAL VALLEY, ILLINOIS.

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WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
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WON 500 prizes at leading state fairs and International Exposition the past five years. 378 head on hand 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. R. L. BOLLMAN, COAL VALLEY, ILLINOIS

BRED SOWS FOR SALE

FOR March and April farrow. They are bred to Look Out, an outstanding boar, also Rival Chief and P. M. Maloy. This breeding should make a good cross. Prices reasonable. Write
GEO. LIPPERT - - - - MAGNOLIA, ILLINOIS

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address
H. D. DE KALB, - - - - Dekalb, Iowa.

THE UNDEFEATED BOAR MESSENGER BOY 6179

HEADS MY HERD OF HAMPSHIRES. I have nothing to sell at present. The great demand for boars and gilts by Messenger Boy and sows bred to him has taken everything I can spare at present
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SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.
C. A. BROOK, - - - - WASHINGTON, IOWA.

WE ARE offering ten yearling sows bred to Capt. Porter, a mammoth boar, for March farrow. Eight gilts bred to the Kentucky-bred boar, Rival Lad, for April farrow. These hogs are of the best breeding and are priced very reasonable. Write us for description and prices.
WOOD & WESCOTT, SHEFFIELD, ILLINOIS

GOODENOUGH'S HAMPSHIRES

BOARS all sold but two extra good yearlings. I will hold a public sale of bred sows and gilts on January 27, 1913. Write me, mentioning The Homestead.
A. L. GOODENOUGH - Morrison, Illinois

IMMUNIZED HAMPSHIRES

OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address
J. CROUCH & SON, La Fayette, Indiana.

DUROC JERSEY SWINE.

SWANSON'S DUROC JERSEY SOW SALE

STANTON, IOWA, JANUARY 23, 1913

40 HEAD---30 Matured and Yearling Sows, 10 Gilts---40

THESE are the best I have ever sold and are sired by **Model King, King The Col.** and **Model Prince.** They are all safe in pig to **King Willetta** and **Model King.** If you want some good sows that are bred right and are good individuals come to my sale. Write for my catalog, now ready, and mention The Homestead.
COL. N. G. KRASCHEL, Auctioneer. **S. W. SWANSON, Red Oak, Iowa.**

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
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I HAVE 30 choice boars for sale. I have a yearling by the champion Freed's Col., out of a daughter of the grand champion sow, 1911. Will recommend him as a good breeder. Two good fall boars, and I will sell Crimson Critic: 25 other choice boars. Write me at once.
R. J. HARDING, - - - - - MACEDONIA, IOWA.

J. W. STORM BUYS VOLUNTEER AT $1,500.00

HE is assisted in herd by Royal Superba, grand champion over all breds at two big shows. Will hold BRED SOW SALE JANUARY 25, 1913. 25 sows will be offered bred to Volunteer. For particulars address, mentioning The Homestead, J. W. STORM, SEVILLE, OHIO

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WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individually. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first class. Address
ROBT. PRITCHARD, - - - - CARROLL, NEB.

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WE have several choice gilts bred for early farrow that are bred right and must make good. Priced right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address M. C. CRAMER & SON, Monroe, Iowa.

LARGE DUROC JERSEY BRED GILTS

I HAVE 25 March, April and May gilts by Daisy's Chief out of dams by Col. Advance, Model Advancer Chief's Col. and others, bred to Model Select by Chief Select Jr. Gilts weigh 250 to 300 lbs. Prices right.
J. H. MORF - - - - - FAYETTE, IOWA

SUNNY SIDE STOCK FARM

DUROC JERSEY HOGS and Red Polled Cattle. Herd headed by S. E.'s Defender 117385 and S. E.'s Premier Col. 117563. S. E.'s Premier Col. is for sale. Spring pigs are from dams by Model Chief, Ohio Chief, Proud Advance, Golden Model, etc. We also have a great litter by Crimson Wonder I Am, and several by other prominent sires. We breed for size, smoothness and prolificacy. An extra lot of males and females to choose from. Prices reasonable. Mention The Homestead when writing.
S. E. Eakle & Sons, Prophetstown, Whiteside Co., Ill.

20 Duroc Jersey Boars 20

I AM offering 20 choice boars for sale sired by A. F.'s Pilot Wonder. Prices reasonable. Write me at once. Address, mentioning The Homestead,
A. F. HAGER, - - Avoca, Iowa.

Snethen's Durocs

FALL GILTS by Belle's Choice Goods and bred to a son of Crimson Wonder Again and Golden Model 51st. All are best of breeding and priced right. Address J. S. SNETHEN, Davis City, Iowa.

30 DUROC BRED GILTS

I HAVE 30 large spring gilts weighing 250 to 300 pounds, of Chief's Col. breeding and bred to a son of S. E.'s Premier Col., that I will sell worth the money. If you want good ones write me. Address
CHAS. A. MOULTON, Morrison, Illinois.

FOR SALE Open gilts by Crimson Col., one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address
C. B. REAM - Route No. 6, Lima, Ohio.

VON SEGGERN'S DUROC JERSEYS

150 SPRING PIGS sired by the 1,000-lb. boar, Critic's Banker, and Lady Bob's Proud Chief. Write us your wants. Mention The Homestead.
VON SEGGERN BROS. - WISNER, NEB.

Duroc Jersey Bred Gilts

20 March and April gilts sired by Wonder's Model (2d Iowa 1912) and bred to Colonel J 98673, a great son of Proud Col. dam by Model Wonder. Gilts weigh 200 to 225 pounds. Price low. Address
JOHN KREBS - RIVERSIDE, IOWA.

DE YOUNG'S DUROCS

POSITIVELY no more boars for sale. Bred sow sale January 24, 1913. Send now for catalog.
A. J. De Young, Sheldon, Iowa

At $10 and $15 You can have the pick of our bunch of fall Duroc Jersey pigs, and we also have a number of choice sows for sale. Also some late gilts that will sell at small advance over market. Breeding first class, hogs healthy and all right. Bargains, address today
A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

FALL PIGS AND BRED SOWS Will be offered for next few weeks at from $10 to $40. White Rock cockerels and W. Holland toms. Address EARL ROBERTS, Ulysses, Neb.

AVERYDALE BOARS and bred sows. Also Silver King corn. A. M. Avery, Mason City, Iowa.

DUROC JERSEY sows, bred to Red Peach 105497, for Sept. and Oct. farrow. Good enough for anybody, and cheap. Fred Hanks, Winnebago, Minn.

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GARDNER, ILLINOIS,

DUROCS, POLLED DURHAMS

SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write
MENAUGH BROS., Gardner, Ill.

FOR SALE

SPRING boars by Volunteer, A's Defender, Superba, Chief's Col., Defender, and Pal's Col. Dams by Chief's Col., Defender, Ohio Chief, Proud Advance, Crimson Wonder III., Educator, Tippy Col., Fancy Col., and The Helen Blazes, Willettas, Lucy Wonders and Sunbeams. Show boars a matter of special correspondence.
H. E. BROWNING - Hersman, Illinois.

DUROC JERSEY BRED GILTS FOR SALE

BRED for early farrow, ready to ship. If you want bone and size and color we have them. We also have 100 bushels choice Reed's Yellow Dent seed corn. Write or come and see us. Address
D. NAUMAN - WEST LIBERTY, IOWA

BRED SOWS AND GILTS

A GOOD lot of Duroc Jersey gilts, large, lengthy, with good color and plenty of bone, bred to farrow in March; sired by Choice Goods, High Col. and Model Chief; bred to R. J.'s Chief, Harding's Model 5th and King Gano. J. C. Porter, Ogden, Iowa.

WE HAVE A DRAFT of bred gilts that are bred for M'ch and April farrow good enough for a breeder and cheap enough for the farmer. Bred from leading families, mated to best male we have ever owned. Col.-bred hog. For particulars and prices write, phone or come see them. Farm near town. J. W. Troy & Bros., Rose Hill, Ia.

DUROC BRED GILTS

I AM making special prices on 20 March and April gilts bred to farrow in March and April. These gilts are bred to Chief Col. and Prize Wonder. If you want some bred gilts write me at once as they will not last long at the price. Frank N. Crow, Oxford, Ia

DUROC JERSEY SOW SALE

PERRY, IOWA, JAN. 25th. 30 head well-bred, useful Duroc Jersey bred gilts will be offered at the farm, 3½ miles northwest of Perry on the above date. H. GILBERT, Perry, Iowa.

WENDT'S DUROC JERSEY BRED SOWS

GROWTHY brood sow prospects by C. Indicator and Long Hero, bred to Grand King by Crimson Climax, and above boars are individuals on which they could be used. Stretch, bone and size specialties. W. J. WENDT, Remsen, Iowa.

DUROCS Can spare a few choice sows bred for April farrow. Address
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DUROC Leading Bred gilts and yearlings. Good ones. Also September pigs. Blood lines represented. Address
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20 GILTS and SOWS bred for March and April farrow. Good length and bone. Moderate prices to move them soon. S. J. Butts, Mason City, Iowa.

YORKSHIRE SWINE.

LARGE YORKSHIRES

80 HEAD of pigs of 1912 farrow, all ages, either sex, not akin, $8 up. Service boars. Sows and gilts, bred or open. W. C. Cook, R. 42, Ada, Mich

SALE OF BATES-BRED SHORT-HORNS

MARSHALLTOWN, IOWA,

TUESDAY, JAN. 28TH

ABOUT 40 HEAD
11 ARE BULLS

THE only herd in the state exclusively of Bates breeding and of the most costly and fashionable blood, 21 head of the Duchess and 14 of the Oxford tribes, the two highest-priced Bates families. The herd bull, Earl of Barrington 266481, is included. He is a direct descendant of the noted cow, Imp. Lally 8th by 7th Duke of York (17754). There is only one other pure Bates Barrington bull living. He will be one of the bargains of the sale. A large number of females of breeding age will drop calves early in the spring and are bred from milking strains for which Bates cattle are noted. The sale will afford an excellent opportunity to lay a foundation for a milking herd of Short-horns of the most fashionable Bates breeding. Send for catalog.

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350—HORSES—350

In Coliseum, Bloomington, Illinois
JANUARY 28, 29, 30 and 31, 1913

On Tuesday, Wednesday, Thursday and Friday, we will sell
250 IMPORTED AND NATIVE-BRED REGISTERED
Percheron, Belgian, French Draft, Shire and Clydesdale Stallions and Mares

00 HEAD of Imported Stallions and Mares that will land by sale day.
00 HEAD of Imported Stallions and Mares that have been here a year.
100 HEAD of the BEST Registered mares that ever went into an auction ring.
50 HEAD of Imported Fillies, one and two years old.
100 HEAD REG. STALLIONS of the very choicest of breeding and individuality.

On Friday, January 31, 1913,

100 HEAD REGISTERED TROTTERS Grade Draft, Single Drivers, Saddle and All-Purpose Farm Horses, Stallions, Mares and Geldings.
50 HEAD OF PONIES. IMPORTED and NATIVE-BRED REGISTERED Shetland, Welsh and Cross-Bred, from the best breeders in the state. Stallions and Mares good enough to head any herd; Mares and Geldings broke, and safe for your wife or child to drive.

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At the farm, 5 miles south of
WILLIAMS, IOWA
TUESDAY, JANUARY 21, '13

23 HEAD consisting of the great herd bull, Baldy, by Eureka; 6 young bulls, 10 cows, 2 yearling heifers and 4 heifer calves. The cattle are a good useful lot and I expect them to sell low. It will be a good day's work for any man who will attend this sale and buy some of this good seed. Write for information to

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WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 656 head in our combined herds. Bulls of all ages, high-class and good herd headers for sale at all times. Write us and come and see our herd. Address
ESCHER & RYAN, BOTNA, IOWA. - CHAS. ESCHER & SONS, BOTNA, IOWA.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by **Scottish Hero 52494, Prince of Pder 129738, Kazimura 2d 134656** and **Elever 134652.** Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three year old. Write me, mentioning The Homestead, **JOHN E. GRIFFITH, WASHINGTON, IOWA.**

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WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address
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TWENTY extra choice young cows and heifers, also a few young bulls and one aged Blackbird bull for sale. Popular breeding and attractive prices.
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FOR SALE. Having rented my farm, will sell my entire herd consisting of cows, heifers, calves and five yearling bulls. Address
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I AM OFFERING for sale at private treaty 14 Angus bulls from 8 to 16 months of age. Nearly all of them are sired by Blackbird Jack 129823, one of the good sons of Black Woodlawn, and all of them bulls of quality and breeding. There are 3 Blackbirds, 2 Trojan Ericas, 3 Queen Mothers and 1 Pride in the lot. A.G. Messer, Grundy Center, Ia.

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IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address C. S. Hechtner, Charlton, Iowa

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YOUNG bulls, from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare, on M. & St. L., or Barnum, on I. C.
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A FEW very choice bulls, old enough for service. Also a number of very choice females. Our herd won numerous first places and champions at the fall fairs. Our prices are very attractive. Address
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7 Choice Hereford Bulls 7

I AM offering 7 splendid young bulls for sale from 13 to 16 months. Mostly sired by **BEAUMONT JR.**, and out of **DUDLEY** heifers. Some choice herd bulls among these. Address
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TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, allreds, and a choice lot. Farmers' prices; singly or carload. Mention paper. **R. J. COX, GRINNELL, IOWA.**

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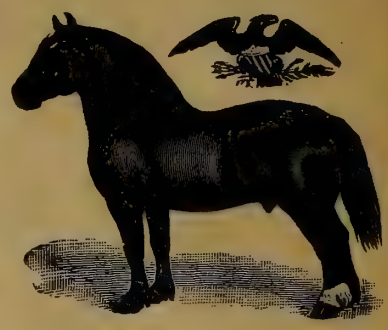

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IN ORDER to move the few horses that I have on hand am naming special prices for quick sales. One splendid gray and three blacks. Would trade one for mares. Can please those looking for a good horse and save them some money. Percherons and Short-horns our specialty.

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Home-bred draft stallions, $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds.

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I AM offering some splendid yearling and 2-year-old stallions for sale at popular prices. Address

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PERCHERON STALLION in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C. W. Chandler, R. 4, Kellerton, Ia.

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Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America. Reference: Any bank in Creston.

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Imported Belgian, Shire and Percheron Stallions for sale at all times. Write me, address

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IMPOTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. of Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

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2 SHIRE MARES One 8 years old and the other coming 3. Good big ones and well matched. One bred and sure in foal. Price very reasonable. 4 miles west of the Iowa Agricultural College. Thos. F. Kennedy, R. F. D. 1, Boone, Ia.

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SELL or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

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Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

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BREEDING stock for sale at all times. Just now have two especially choice young things to offer, one a yearling filly, coal black except a star in forehead, weight good, has bone, substance, style, quality and is drafty. Dam weighs 2,200. Price right. A weanling stallion foal that will make a good buy at the price I am making. Address, mentioning The Homestead,

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60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

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IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

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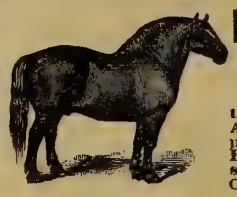

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Osceola, Iowa

Our **1912 importation** now in our stables. A high-class lot of imported **Percheron, Belgian** and **Shire stallions** and **mares.** Come and see them.

VAN STEENBERGE'S DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

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YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

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SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

TWO YOUNG PERCHERONS

Remarkably good, big home-grown stallions, extra bone. Registered. One gray coming three; one black coming four. State certificates of soundness. South Central Iowa; good railroads. Anxious to sell.

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The POWER OF PERCHERONS

BIG crops emphasize the necessity for first-class horse power. Quicker trips to the elevator, with heavier loads, means **real money,** and during the approaching winter mares might just as well be carrying profitable Percheron foals instead of inferior, light weight young. Write me for free bulletin C. It tells all.

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Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

FOR SALE. Registered Percheron stallion coming 7 years old, weighed on New Year's day, 2,110 lbs., sound, sure breeder. Sold for no fault. Address

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I CAN sell you **a better stallion than you can buy elsewhere in this state for $1,000.** I have a splendid lot of yearlings, also twos and threes and one six-year-old stallion. I am also offering some splendid Percheron mares for sale of all ages. Write or come and see me.

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SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

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AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, Ia.**

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1878 THE WORLD'S GREATEST COLLECTION OF 1912

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 5th 1912 importation arrived Oct. 29th. Mention Homestead when writing.

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PERCHERONS BELGIANS SHIRES

Our horses are the best that money and experience could secure in Europe, and we invite the inspection of critical buyers. We have no long story to tell in our advertisement. Our horses tell their own story and we want you to be the judge. We give the most ample guarantee and any responsible person can make the easiest of terms. Come and see what we have to offer.

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On Chicago & Alton Railroad and Illinois Traction System

MAASDAM & WHEELER, Fairfield, Iowa

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Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

THE NORTH ROBINSON CO.,

BREEDERS AND IMPORTERS

PERCHERON, BELGIAN, SHIRE

STALLIONS AND MARES.

A BIG lot of carefully selected stock, fresh from Europe and from our own farms, may now be seen at our sale barns at Grand Island, Nebraska. Write for fuller particulars or come and see us. Mention The Homestead and address

THE NORTH ROBINSON CO., Grand Island, Nebraska

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Our New Importation of

100 PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

Arrived October 15th and can now be inspected at our stables. If you want to save from $300 to $500 on a stallion or a pair of young mares you can do so by buying at once. **Every animal guaranteed sound and a satisfactory breeder.** Write at once for particulars or call at the farm.

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Homewood is on the main line of the Illinois Central and Big Four Railroads, 23 miles south of Chicago, with trains every hour. Bell phone, Homewood 58 W.

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150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for circulars. Catalog ready Dec. 1st.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

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LEWIS and ATLANTIC, IOWA,

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PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importation of **PERCHERON** stallions now in the barns of

E. J. HEISEL, Fremont, Mahaska Co., Iowa.

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C., B. & Q. R. R.

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STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers [of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars. Large CALENDAR after December 15th.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

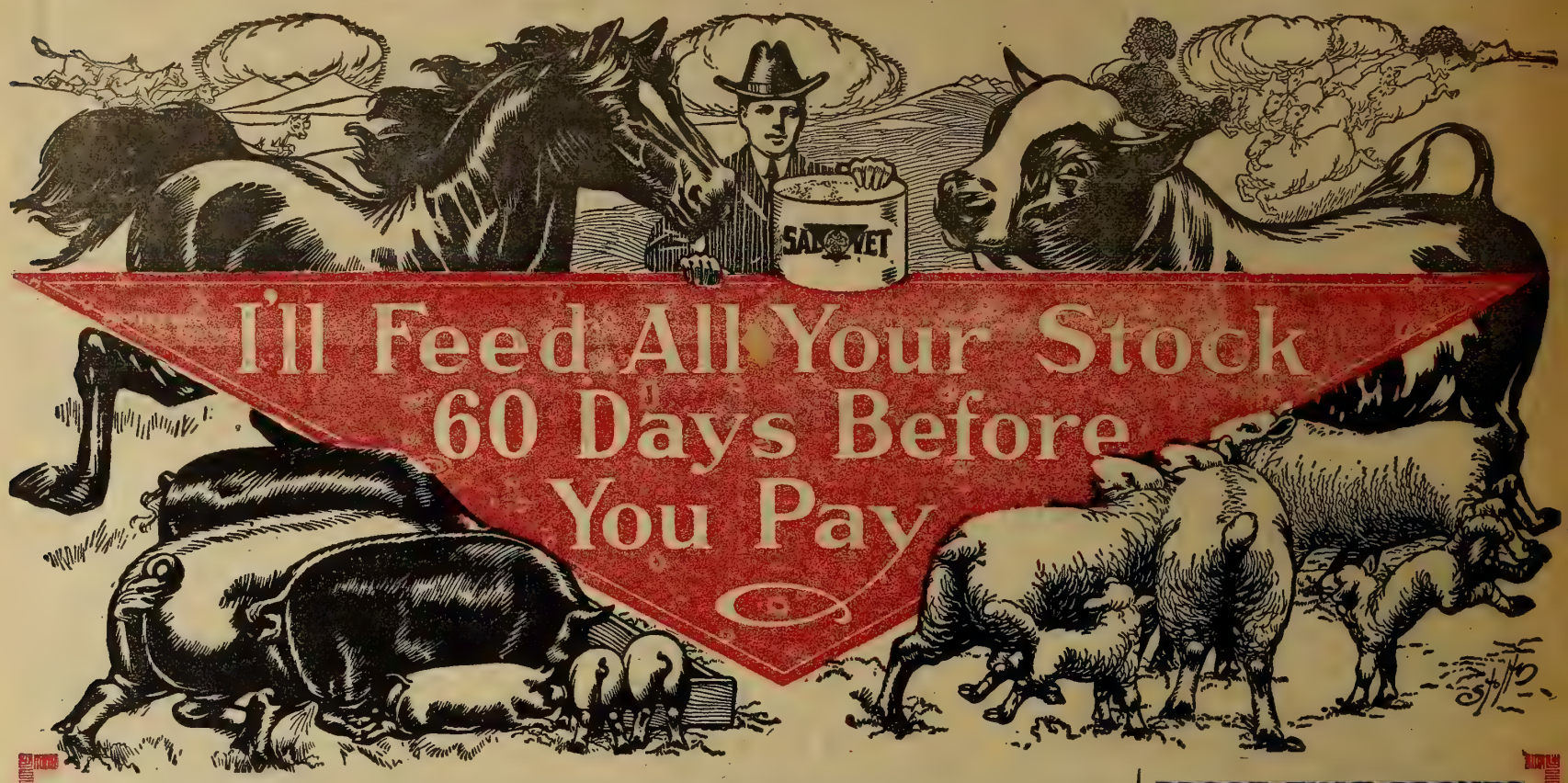
OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

I Have Shipped Hundreds of Tons of SAL-VET to Readers of Iowa Homestead

—S. R. Feil



I have done it for thousands of farmers and stockmen—I am doing it every day—I'll do it for you. All I ask is the privilege of sending you enough Sal-Vet to last all your stock 60 days. If it doesn't do what I claim I'll gladly cancel the charge.

The Great Worm Destroyer **SAL-VET** ***The Great Live Stock Conditioner***

I simply want to show you what a remarkable change Sal-Vet will work on your sheep, your hogs, your horses and cattle. I want to show you how it will improve their condition—make them thrive better—look better—put on more flesh and above all ***get rid of the worms and parasites,*** which are the biggest drain on your stock profits. After you see the wonderful results Sal-Vet produces, you will be only too glad to pay its small cost and order more.

Remember, I don't ask a penny of pay in advance. I prove all my claims first.

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"All last winter I used Sal-Vet for 2,500 head of yearlings, and can not find words to say the good things about it that I would like. However, I believe Sal-Vet to be the best thing in the world to keep sheep in a healthy condition and in excellent appetite."—Svend Mauland, Big Timber, Mont.

"'Sal-Vet' is a great worm destroyer. Since feeding it to my hogs and sheep I have never had a healthier bunch of stock in my life. There has not been a single case of thumps among my hogs since feeding 'Sal-Vet,' although this condition prevailed previous to that time."—R. V. Craven, Rt. No. 4, Albany, Mo.

"I found 'Sal-Vet' to do just what you said it would; it is sure death to worms. Moreover, although the cholera has reached throughout this neighborhood, I have not had a single loss since feeding 'Sal-Vet.'"—Joe Gahimer, Alexandria, Ind.

"Your Sal-Vet has wrought a wonderful improvement in my thoroughbred Hampshires as well as in the case of my other stock. I would like to see more farmers use this great conditioner and worm destroyer, as I know it would pay them to feed it."—A. J. Dvorak, Madison, Nebr.

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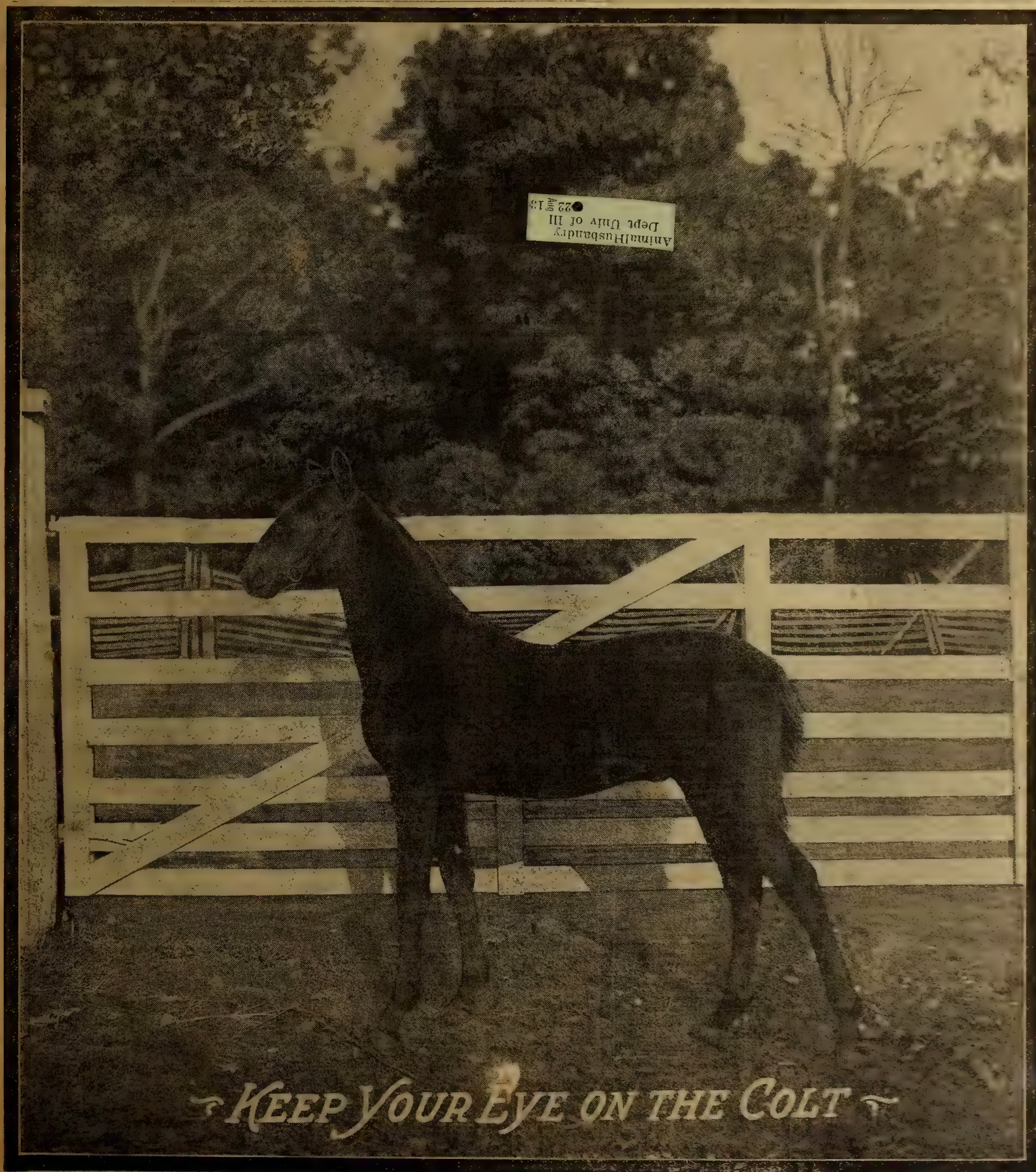
Dept Univ of Ill
22 Feb 13

The Iowa Homestead

VOL. LVIII. NO. 4 DES MOINES, IOWA, JANUARY 23, 1913. WHOLE NO. 2885.



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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JANUARY 23, 1913.

BRIGHTENING THE FARM HOME

Cheap and Practical Expedients by Which the House May Be Made More Habitable and Attractive, no Matter how Small the Means May Be.—*By Avis Gordon Vestal.*

A BRIDE was expected on an Illinois farm. The young husband-to-be had an old three-room house in a barren yard, the whole environment lacking beauty, comfort and convenience for the dear girl who was to spend nearly all of her time there while he was away in the fields. He was a thoughtful young man and he wished to be able to keep through his married life the love he had won in his "courtin' days." So, while getting the farm and its old barns and sheds in shape to make his own work efficient and his stock comfortable, he gave equal consideration to brightening up his house to make it a happy place for his home maker. Here are some of the things he did: The parlor was dark, so he replaced the solid wood front door with one having a large glass panel. Presto! A flood of sunshine entered to brighten it. The door opened only upon a step. During his extra hours he made a broad porch platform where they could sit comfortably together during the summer evenings. The yard was barren. He leveled and seeded down a small front yard, fenced it from marauding piggies and scratching hens, and enriched the soil along the borders near the fence, where he dug beds for the seeds his wife should sow. In the kitchen, which served also as dining room, the floor was a dangerous step down from the parlor. It was also splintered and worn with use by two previous generations. Being a single floor it also was inadequate as a protection from cold. He did what he should here, for he had a new floor of hardwood boards, tightly matched, laid above the old one and on a level with the other rooms. The kitchen window looked out upon the blank wall of a dilapidated old smoke house. He changed this window himself, filled up the hole and placed the frame where a beautiful view down a valley and the road, an inspiring landscape, greeted her view instead.

A GASOLINE STOVE KEEPS THE KITCHEN COOL IN SUMMER AND HELPS THE BUSY HOUSEWIFE.

Reaching the cistern outside the house was an awkward business of going up and down steps with heavy buckets. He extended the floor of the back porch to the cistern platform and cemented up around the pump. He plans, another year, to extend the back porch floor and roof still farther and to screen it in. Then the wife will be protected when drawing water on stormy days. She can sit there to prepare vegetables or do her mending, and they will use it as a sleeping porch on summer nights. Dish cloths and scrub rags are unsightly, yet must be hung to dry, and the house is more convenient than out of doors. The kitchen range had a high back, so this practical lover unscrewed the nuts holding the bolts on the back (the stove stood well out in the room to better heat it). A curved piece of fence wire was inserted before screwing the nut back. The wire was bent into several convenient hooks to hold dish cloths, towels and skillets. Running around two sides of the room and near to the hot-water reservoir of the range he built two wide shelves. Dishes are washed on one broad shelf and stored on the other. Instead of closing up the flue below where the pipe enters he left an opening arranged to hold paper bags, lamp rags, etc. There is also a secret nook hidden away for storing the wedding silver gifts not in daily use.

As there is no cellar a "tight house" of double walls filled in with sawdust was made in the back yard to keep food cool in summer and store canned fruit and vegetables in winter. There is no cool place in the house for keeping food away from the warmth of the kitchen in cold weather, so, to save her many daily trips through the cold at each meal, he made her a window box. This sets outside the window frame and the lower sash is raised when the butter dish or cream pitcher is placed there.

The bedroom had a small, dark-corner closet. He enclosed a space four by six feet, off the back porch, to make a roomy, light closet to hold all their clothing and allow sweaty garments to be well aired. In addition to the door from the bedroom he opened one upon the porch at the rear. This not only gives light and air, but permits him to go directly to the room when he needs to change soiled work garments without passing through the kitchen.

When the wife arrived she set her wits to work to make the old house yet more bright and convenient. In the kitchen she placed a handy cabinet and wall hooks and small sets of shelves to get all of her housewife's "tools of the trade" concentrated conveniently in one end of the room and leave the other half free for dining purposes. She made rugs of old carpet, hung pretty pictures and pennants in a cosy, cushioned corner of the parlor, and added

(Concluded on page 18.)

A CARPET SWEEPER AND A SANITARY MOP DRIVE THE DIRT AWAY.

BRIGHTENING THE RUGS WITH A VACUUM CLEANER.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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FRUITFUL SEARCH FOR A CHEAPER FEED.

Thirty-five or forty cents a bushel for corn is not calculated to furnish a very strong incentive to economy in methods of feeding it to live stock, and some agricultural college professors have recently expressed the fear that grain will be wasted this season in many instances through lack of care in feeding, just because it is cheap. Study along the line of finding the cheapest feed for fattening cattle, hogs and sheep has been going on more earnestly in the last year or two than ever before, and it would be a public calamity if research in that direction were halted from any cause. It is doubtful, however, if much corn will be thrown away in careless feeding with prices of stock and feeding grades of live stock at present figures.

Five years ago W. H. McCluskey and Horace Smith, of Owaneco, Ill., commenced feeding their cattle a ration composed of silage, a little corn, and two pounds per day per head of cottonseed meal. These men had been successful feeders of the old ear corn and timothy hay school, so when they say that the new ration will produce the same amount of beef as the old way of feeding at half the cost their conversation is worth listening to. They handle yearling steers, which are fed about eight months and then sold in the baby beef class. In a recent interview in Kansas City they had the following to say about their method:

We have two silos each which have a capacity of 200 tons each. At the time we built these silos and started to feed silage, cottonseed meal and corn it was an experiment. So successful did it prove that we did not think of feeding any other way. We keep a record of all that we feed and an expense account all around and do not hesitate to say that we can fatten cattle this way for just half what it would cost any other way we ever fed. In feeding silage no hay of any kind is necessary. The succulent preserved ration balances the dry corn and cottonseed meal just right.

In starting the cattle on this ration very little corn is given, and about a pound to the head a day of meal is fed. Gradually the meal ration is increased until it reaches over two pounds a day to each animal. It is simply wonderful how these young cattle begin to stretch out and at the same time begin to put on fat. We handle only the highest grade of cattle, and under this system of feeding we can see them gain in weight each day and at the same time they seem to round out and become glossy as they increase in flesh. We had for many years fed cattle in the old way, plain corn and hay, with all the water they could drink. Cattle can be fattened that way, of course, but it takes longer and costs much more, and they do not possess the fine finish when they are ready to go to market as those fed under the new system. Best of all is the great difference in the cost.

In our neighborhood since we started to feed this way many others have fallen into line and are feeding the same way. In no case has any one who has given this a trial doubted but what it was far cheaper than the old way, and no one has ever abandoned the system to go back to the old plan of feeding.

RULES FOR THE RURAL PASTOR.

At practically every rural life conference when the subject of the rural church is brought up three points are emphasized: first, the church should take more direct interest in everyday affairs; second, there are, as a rule, too many churches, dividing the interest and the attendance until they reach almost the vanishing point; third, the pastor should be familiar with farm work by actual, personal experience.

No more helpful or inspiring talks have been made before any rural life conference than those made at the Iowa meetings by the Illinois pastor who revivified a rapidly dying country church by adding musical, literary and atnletic features and attractions and shortly so inspirited the community that a handsome $20,000 church building was erected at the cross roads, a half mile from town, filled every Sunday with interested worshipers and the social center of two townships. Equally helpful and inspiring was the talk of the Iowa pastor who told of inviting into his pulpit dentists, doctors, business men, veterinarians, all sorts of people, from the nearby town, and turning the Sunday evening services over to them for practical talks on the conservation of health and the important things of everyday life. There is general recognition of the fact that the country church must play a more important part in everyday affairs if it is to last and deserve to last. The idea was excellently summed up in the placard prominently displayed at the last Iowa State Fair:

The country church has done everything in its power to pave the farmer's road to glory land, but it has paid far too little attention to his road to the nearest village.

It was this same idea which Professor Holton, of the Kansas State Agricultural College, evidently had in mind when he declared recently, after careful study, that aloofness of the church to the practical needs of the people of the community has slackened their interest and diminished its social and religious value. He has made the following rules for the guidance of the rural pastor:

He should influence the church to think in terms of the community instead of in terms of the pillars.

He should make the church building a social center for community life.

He must clothe the gospel message in the everyday language of the plain people of the Twentieth Century.

He must pacify internal wranglings and discourage community competition between denominations.

All except one church in each community of less than six hundred inhabitants should be abolished.

He should do actual farm work that he may be more able to mix with his congregation.

There is good food for thought in what Professor Holton says. This is the age of practicalization. Political leaders and captains of industry are finding that it pays to get nearer to the people and to stay near to them. Rural pastors should learn the same lesson. The day has passed when the country church (even more than the city church) was a structure for occupancy only one day out of seven and for the exposition of the things of yesterday rather than of today. The fact that scores of country churches are being revivified because they are being made practical and up to date shows that the tendency of the times is full of promise.

METHODS OF VACCINATING HOGS.

There is a very great difference of opinion among men who have undertaken to vaccinate hogs to prevent cholera in regard to the proper plan of procedure. Mr. Walter Taylor, a Nebraska subscriber, thinks that it is a great mistake to vaccinate hogs before they are sick. He calls attention to the fact that in his neighborhood there has been a great deal of cholera, but on the other hand where the disease is once started vaccination has given most excellent results. He says that a neighbor vaccinated 123 head and only lost five. Under the advice of the local veterinarian this bunch of hogs was not vaccinated until it was apparent that disease had entered the herd.

Another subscriber, Mr. Ira M. Monroe, of Knoxville, Iowa, writes concerning his experience with cholera, as follows:

I had thirteen head of old brood sows that got sick very suddenly. I suspected that they had cholera and our local veterinarian thought that I was mistaken because of the fact that the old sows were affected first. Four days after the sows took sick I obtained enough serum to vaccinate fifty-seven head in all. I lost eight out of the thirteen sows, but the shoats that I vaccinated never missed a feed after they were treated and I have never had hogs do better than they have since. My opinion does not harmonize with those who claim that it requires six or eight weeks for a hog to get over the setback he gets from vaccination. I know of a number of instances where men sent away and got the serum and did their own work only to experience the result of losing all their hogs.

It is my opinion that hogs will surely get cholera soon enough without going to the expense of giving it to them and it is my opinion that the authorities should not allow the hog cholera virus to be sold and no one should use the serum except an experienced veterinarian.

An Illinois subscriber, R. O. Osborne, writes:

Having read a communication in your paper on the fatal results of vaccination of hogs, will state my experience with same.

Last spring I had a bunch of sixteen thrifty hogs and as cholera was raging through our locality, and every extensive farmer was advocating vaccination being the only cure. I decided to try it. I called a graduate veterinarian who did the vaccinating, using serum which was sent here by the state. He inserted two kinds of serum, one kind to produce cholera, and the other to counteract it. It evidently took on my hogs, for they were droopy and stiff for a few days afterward and the place where the serum was inserted became swollen. They seemed to be O. K. Then for about two weeks they began to wobble in their hind parts and having hard fits, dropped off until all were dead except one old brood sow. I don't know what the trouble was, but I do know I lost my hogs. My neighbor had a similar experience.

It is an open question at this time whether it is advisable or not to vaccinate a healthy herd of hogs, especially to use what is known as the simultaneous method which, of course, means nothing more nor less than the introduction of real cholera. In our opinion we will never make anything like satisfactory progress in stamping out this disease until systematic work is done by the proper authorities to stamp out the disease there and then whenever it makes its appearance in a neighborhood. It is not a matter that should be left to the choice of the individual, as it is really a community question, and so long as a promiscuous use of hog cholera virus is permitted just so long may we expect to engage in a never-ending warfare.

DEEP SPRING PLOWING.

An Indiana subscriber, Mr. George H. Walker, gives the results of his observation of the effect of deep spring plowing, in a communication which follows:

About fifteen years ago a farmer living in this part of the state broke a field containing about twenty-five acres. The soil was clay, part of the field being new ground under cultivation not more than four years. The timber originally growing on this plot of ground was beech, oak and poplar, together with some hickory. This ground was plowed from eight to ten inches deep while most farmers only plowed about five and one-half to six inches. He plowed the field in the spring and put in corn and naturally I was curious to see how the crop would turn out. The crop was no good at all and not only that, but after living in that neighborhood for about four years more he never could raise a good crop on it, though the field had been producing average crops before.

Another experience which came under my observation was that of a neighbor who commenced to break a nine-acre field about ten inches deep. I reminded him of the other fellow's experience, but he went on and planted it to corn, using 150 pounds of fertilizer to the acre. As a result he raised about five bushels of corn to the acre, which he cut up and put in his silo.

If the soil is two feet deep it will not do any harm to plow that deep, but if only three or four inches, better go slow and do not turn up a pile of clay and turkey gravel on top unless you can give the land a good coat of stable manure after it is plowed. There is no plant food down deep in the yellow or blue clay and I believe the only reason trees and corn send their roots down so deep is to keep from being blown over and the small rootlets furnish the nutrition.

While we believe that the tendency in the future will be to plow land much deeper than has been the case in the past yet it will always be important that good judgment be used as to the time of plowing, while the character of the soil must also be considered. In the case of clay soil such as those described by Mr. Walker it can be easily understood that the bringing of considerable depth of inert subsoil to the surface in the spring of the year might result in starving out the following crop. In such an instance the part of the soil containing most of the vegetable matter is buried at the bottom of the furrow so that the inert lower soil is really placed in immediate contact with the surface feeding rootlets.

In the case of loams no such unfavorable results will follow deep plowing, because in those soils the vegetable matter generally extends down to a depth of twelve or fifteen inches and plowing even to that depth will not bring to the surface crude and inert soil. Those who decide that they must plow their land deeper in the future than in the past will show wisdom if their deep plowing is done in the fall and, furthermore, better results will be obtained if the depth is gradually increased unless those implements of tillage are used which stir the soil in such a manner as to keep the vegetable matter near the surface and the inert material where it belongs. In such a case no objection can be made to greatly extending the depth of the plowing at any one time.

SHIPPING CREAM BY MAIL.

The daily papers are filled with instances of the freakish use (it might better be termed "abuse") of the new parcel post system. After the novelty has worn off, patrons of the postoffice will settle down into the ordinary, practical use of a system which promises much in the way of bringing consumer and producer closer together and eliminating not only the middleman but much of the transportation charge. With the present freakish uses of the system we have little, if any, interest, save as they arouse our credulity or amazement. It is impossible, however, for the service to continue long without being of direct and practical value to every farmer who is a patron of an R. F. D. route.

A recent item in one of the small-town newspapers of the grain belt shows the immense possibilities to the farmer. A patron of an R. F. D. route is trying out the experiment of shipping his cream to the dairy in the nearby town by parcel post. A gallon can of cream is being sent from his home in the country and delivered to the dairy in the town for eleven cents. The empty can is returned by the mail carrier for only six cents. The small-town newspaper comments:

This is much cheaper than to make the drive or to send it by express, and, as the cream is collected by the rural mail carrier and the empty can returned in the same way, there is no bother of driving to town or visiting the express office.

With round-trip transportation charges of seventeen cents a gallon the plan would not be feasible for a farmer having a large quantity of cream to ship to town regularly, but it is feasible for the farmer with but a gallon or two of cream, a few dozen eggs, a few dressed chickens or other produce of small weight. Already a special kind of box to be used for shipping eggs by mail is being advertised. It is inevitable that before the year is out (unless the system is abused or the service curtailed) the American farmer will find the parcel post as profitable as his English cousin long ago found his similar service to be.

SWEET CLOVER TO BUILD UP LAND.

From a despised weed, growing along the roadside, sweet clover has come into favorable notice in a very short time. It used to be said that if there is anything on earth entirely useless it is sweet clover. It was said that nothing would eat it, that it became a great nuisance when growing along roadsides and its smell sickened travelers. There appeared no champion for it and farmers tried to get rid of it. Now all seems to be changed. Many farmers encourage its growth along the roads and fence rows. They even sow it in fields on their farms, and its smell, once despised, becomes beautiful perfume. The price of seed has been advancing right along. Men are mowing the roadsides and fence rows to get it, and everyone is wanting more information about sweet clover.

It may be interesting to those of our readers who have paid no particular attention to the sweet clover boom to know why this right about face in public opinion in regard to sweet clover has taken place. It has all happened because it has been discovered that sweet clover is a great soil builder and improver. It is found possible to start sweet clover on land that will not grow clover or alfalfa. Take hardpan spots, alkali spots and other soil not naturally adapted to ordinary clover or alfalfa and all that seems necessary to get a start of sweet clover is but to sow the seed. Sweet clover begins at once to gather nitrogen for the soil and to store it up. Its roots penetrate deeply, opening up a tough subsoil and making it porous. Drouth or flood seems to affect it but little, its hardiness equaling every other plant of nitrogen-gathering nature. After growing sweet clover for two or three years it is then found that alfalfa or clover can be easily started. As a forerunner of a more profitable crop and as a soil improver, sweet clover has no equal, and because of this the demand for its seed is greater than the supply and evervone with patches of obstinate land on their farms is anxious to sow the seed.

Not alone in soil improvement is sweet clover being considered as a profitable farm crop, but it also is being found a valuable pasture plant when used rightly. The secret of getting good out of sweet clover is to keep it down—to not let it grow up and become old and tough and woody in stalk. If it is kept down so as to be tender, hogs, cattle and horses will all eat it, but it is best of all for hogs. We know of a number of farmers who have it in hog pastures with alfalfa and they say the sweet clover is always kept down as closely as the alfalfa and it seems to have the same feeding value. Let it grow up, however, and stock will shun it. As a hay crop it is not the equal of alfalfa, but if made into hay it should be handled the same as for pasture, should never be allowed to grow large and become tough. As a soil improver, though, sweet clover is getting the most favorable attention, simply because it has received the distinction of "growing wherever sown." In this way it improves poor soil and puts it in condition for alfalfa.

OUR RED LETTER OFFER.

Our 1913 Red Letter Subscription offer makes it possible for every farm family to enjoy an all-the-year-around library of entertainment and instruction at greatly reduced cost. By remitting $1.25 to The Iowa Homestead, Des Moines, Iowa, you will receive a full year's paid-up subscription to each of the five splendid journals: The Iowa Homestead, Kimball's Dairy Farmer, Woman's World, Kansas City Weekly Star and People's Popular Monthly. These journals are leaders in their respective fields and combined they will appeal to every member of the household. Kimball's Dairy Farmer is full of dependable advice and information and no farmer who keeps cows should be without it. The Woman's World is a monthly household magazine of exceptionally high worth, entertaining and artistic. The Kansas City Weekly Star is the leading newspaper of the grain belt, reliable, up to the minute and fair in the treatment of every matter. People's Popular Monthly combines the best fiction, poetry and feature articles. The Iowa Homestead will be bigger and better than ever during the coming year, so that no up-to-date farmer can afford to miss a single issue. Do not delay, but remit at once so that you may receive the big winter numbers of all five of these dependable publications.

THE AUTOMOBILE UPKEEP.

In a former issue of this paper we asked our readers to furnish information relating to the cost of operating automobiles. In doing this we had in mind two things. We desired to give those of our readers who have had no experience with an automobile some idea as to the cost of running one and in the second place we knew that communications of this character would enable those who have machines to ascertain by comparison whether or not their own machine is giving them economical mileage. Mr. T. H. Kitchen, an Ohio subscriber, is the first to respond. He says:

In reading a recent issue of your paper I came across an article, "Is the Auto Upkeep Expensive?" In reply I am furnishing the cost of upkeep on a thirty-horsepower 1910 model five-passenger touring car. The car was bought September 10, 1910, and has covered a distance of 4,135.7 miles to date. It has taken 354 gallons of gasoline to cover this distance at a price ranging from eleven cents to nineteen cents per gallon or a total cost of $47.06 for gasoline. Have used about four pounds each of hard oil or cup grease and transmission grease at a total cost of fifty-two cents for hard oil and sixty-four cents for transmission grease or a combined cost of $1.16 for grease. The car has used eight gallons and one quart of cylinder oil at a cost of thirty-one cents per gallon or a total cost of $2.56 for cylinder oil. It has cost approximately $4.30 for carbide used as lights, saying nothing about the tail lamp which I do not think has consumed over two gallons of coal oil which cost would be twenty cents. I never use side lights. It cost $1.80 to get valves ground once, $8.00 to get two bearings rebabbited and two tires thirty-two by three and one-half, one costing $23.45 and the other $19.50. No batteries for starting have been included because I do not use any, starting entirely on magneto. This of course does not include numbers which in Ohio are $5.00. Nor does it include accessories of any kind. Repairing of tires I do entirely myself with a good vulcanizer which has cost me about seventy-five cents to $1.50 to repair all necessary punctures incurred since buying the car. By adding this together it will be seen that the total cost has been $109.53 to run the car 4,135.7 miles.

These are interesting facts and the results in the case of Mr. Kitchen indicate that the machine has been sensibly handled. This after all is one of the most important factors in connection with operating an automobile. One item in the enumeration calls for special comment, namely, the replacement of two tires before the car had run 5,000 miles. This is probably due to the fact that the car in the first place was undershod, and we venture to say that instead of using a 32x3½ tire that double the mileage would have been obtained particularly on the hind wheels if a 34x4 tire had been used instead. It usually requires ne year's experience to teach the operator of an automobile this important lesson. At least we have found this to be the case in our experience.

This point in particular is properly a matter for discussion and we would like to hear from our readers and obtain their experience relative to the service they are getting out of their tires. The information will be of special value if in every case the weight of the car can be given.

DOES SHOW CORN YIELD WELL?

Every community has its knockers and the individual who starts out in any line of production to do just a little better than his fellows may expect a certain degree of criticism. We are well acquainted with men who have for years been denouncing the plan of holding corn shows, their claim being that the winning corn is not of necessity high-yielding corn. In order to obtain the views of practical men who have taken a prominent part in corn shows we have asked a few successful contestants at the recent Iowa Corn Growers' Association to state to our readers the result of their success in growing corn. We have asked them about the yielding ability of corn that will stand well in competition. Henry J. Longstreet, Eddyville, Wapello county, Iowa, was one of the winners in the southern section of Iowa, and his opinion is briefly given in the following communication:

The method I have used in selecting my seed corn has improved my corn from ten to twenty bushels to the acre. Show corn is high-yielding seed corn and by selecting the good ears, planting them in a seed plot and picking the good seed from that plot the yield will be increased at least five to fifteen bushels to the acre. Many farmers are doing excellent work in trying to grow better corn, but the farmers who are cultivating these seed plots are getting fine show corn and at the same time increasing the yield in the larger fields. I know by my own experience that I am increasing my yield through the use of these seed plots and am not only getting larger yields, but better and more high-yielding seed corn every year. The farmer who is growing corn good enough to win at the state contest is also increasing and producing more corn to the acre than is the farmer who goes to his corn crib in the spring and gets his seed corn. Such a farmer is behind in good seed corn, even though he raises forty bushels to the acre by weight, and the man who raises good high-yielding seed corn will get more feeding value out of his corn. The corn selected from the crib will produce big ears, but they are immature, with big cobs and shallow kernels, while the seed from the high-yielding corn will produce matured corn, all ripened evenly and with deep kernels, all of which goes to show that show corn is the best seed to plant, giving the farmer larger yields to the acre and better profits.

A winner in the northern section of Iowa, H. A. Bates, Algona, Kossuth county, is of the opinion that corn must be selected for its yielding ability and he believes that the selection of good looking ears at random will not necessarily result in increasing the yield. Mr. Bates says:

We have tried a number of show ears in our breeding work and very few of them have ever made records which got them a place in the crossing block. Where show corn has been bred as our corn now is and each ear has a definite history, uniformly good results could be expected. Where show corn is picked at random, taking every good ear that can be found, ears that probably grew under very favorable circumstances, no dependence can be placed on them to reproduce themselves.

To me corn, like cows, must show by a performance record what they are able to do. Then only the best get a place in the crossing blocks.

Much good has come from the corn shows, but I would rather have a very common ear with a good record in the ear to row test block than a champion show ear without a good record. By our method of breeding it takes three years before the corn is ready to sell to the public.

Another prize winner in the contest referred to, H. C. Leonard, Elkader, Clayton county, Iowa, believes in the yielding ability of show corn. A practical endorsement of his contention is shown in the fact that his neighbors are finding it profitable to grow the improved strain of the particular variety shown by Mr. Leonard. Among others things he says:

The sample of corn with which I won at the Iowa Corn Growers' Association was originally Goddard's Silver King. I have been growing this corn the last four years and by careful selection of a certain strain I have been able to increase the size of the ear without affecting the maturity. This is a 100-day corn and will yield from seventy-five to 100 bushels per acre. The sample shown was not raised in a small plot, but was raised in a forty-acre field. If it is a good thing to raise show corn in a small plot, why not try and grow all your corn as near show corn as possible, and then you will get a good yield and a fine lot of corn? My neighbors are all beginning to grow this corn and all who have tried it are well pleased with it.

After all the real test as applied to the merit of corn involves two things: Its yielding ability and its quality. We find that as a general proposition men who begin selecting corn for show purposes are soon led to the practice of using the "mother" ear system whereby seed is saved only from prolific ears. While all good looking ears might not be prolific, yet it stands to reason that the most prolific ears will be found among those that show up well in length, in filling out at the ends, in depth of kernel and in soundness. This being the case we must continue to place a high value on corn contests properly conducted because, as intimated before, it leads immediately in most cases to the plan of selecting back to an individual high-yielding ear.

CONCEIT WILL NOT IMPROVE LIVE STOCK.

In certain classes of live stock the United States takes as high a rating as any of the older countries. This applies to several breeds of hogs, to one or two breeds of horses and to at least two breeds of cattle. For so new a country as ours this is creditable progress, but we have scarcely scratched the ground when we consider the subject in the light of the improvement in the common stock of the country that is so urgently needed. While we must ever give credit and support to those far-seeing individuals who make it their life work to improve the pure-bred animal, yet we must remember that, after all, the greatest benefit can come from this improvement by getting much of this good blood into the common live stock of the country.

We must keep our show-yard standards high, but at the same time we should give more attention to raising the standard of the common farm beast. While our pure-bred live stock is unquestionably improving there is some doubt if the standard for the grade is actually being raised. Because of this we believe that those state supported organizations like beef and dairy associations are deserving of even stronger support in the future than in the past. The state can afford to go to some expense in order that the elbow of the average man may be jogged so that he can be reminded of the fact that as a business venture and as a patriotic act he can ill afford in his herds and flocks to use anything but meritorious pure-bred sires. If he is engaged in dairying then by all means should he select a sire that is bred along lines of large dairy production. If it is beef he is after let the real beef machine be used and not a mongrel product such as we find disgracing too many of our pastures today.

At the present time the nation is short of cattle and it will require at least seven years to produce even a normal supply. We hope that at the end of that period it can be said that the standard judged from the standpoint of economic production has been greatly raised. It can only be done if men can be induced to pin their faith to improved pure-bred males and thereby in their breeding operations be pulled from the slough of despond.

A certain amount of sensible conceit over what has been done in improving our pure-bred stock is desirable and proper, but this ends only where it begins if the strata below the pure-bred line is not in the future our chief concern.

HOME VENTILATION AND GOOD HEALTH.

Be a fresh-air crank and give your family plenty of fresh air. Then health will be written on your countenances and life will be long and sweet. So when the weather is cold, rainy, or windy don't lock down your windows and keep them closed all the time. Throw them wide open a time or two at least during the day and let in the pure oxygen.

The lack of good ventilation is the cause of many of the diseases that prey upon mankind. Headache, indigestion, anemia, pneumonia and the Great White Plague are often due to badly ventilated homes. The disease germs live and thrive in the foul air, and fasten their deadly grasp on the human body. Then follows sickness and probably death in the home.

A man's house may be his castle, but it should never be his prison and his tomb. It should not be overcrowded and should always be kept well ventilated. Poor ventilation is as harmful as overcrowding. The death rate in families occupying one room is very large, running as high as forty to the thousand, while families occupying four rooms have a death rate of seven to a thousand. So where the ventilation is poor the death rate increases.

One would not think of kindling a fire in a stove and shutting off all drafts so that the smoke and gases could not escape. One would soon be suffocated. It is the same way with the human body. It is always taking on oxygen and burning up food, which is converted into body tissues, animal heat and energy. If the windows to the home are closed it is like closing up the chimney. The carbon dioxide, the smoke of the body, and other injurious products cannot escape and fresh oxygen cannot be taken in. The life fires begin to grow dim. The energies flag, circulation and digestion are impaired, and disease finds an easy entrance.

Window means wind-eye, therefore keep it open much of the time. Air and sunshine and the blessed invigorating breezes must be our constant companions. These are not to be feared as a boy fears soap and water, but are to be looked upon as our friends and life preservers. So do not carry on the activities of life in dingy and stuffy rooms and go on breathing impurities from day to day, but open the windows or even the doors and let the room fill with the life-giving oxygen.

FACTS ABOUT GRAVEL ROADS.

This paper has been endeavoring to get its readers interested in gravel roads, conscious of the fact at all times that there are many counties in the corn belt where this kind of road-surfacing material does not exist. At this time we are able to present a few facts regarding the cost of graveling four and nine-tenths miles of road. This work was done under the supervision of Mr. Ralph Bolton, secretary of the Greater Des Moines Committee of the city of Des Moines, Iowa. Through the co-ordinate support of the township, the county and the city of Des Moines sufficient funds were raised to grade and gravel this stretch of road. Something like $600 was spent in making fills, cutting ditches and placing the road surface in a condition so that it would drain properly.

The gravel used on this road was purchased from a property owner adjoining the road under consideration, and it was purchased at ten cents per load comprised of a yard and one-third. The greatest haul was two and one-fourth miles. The total expense for hauling, loading, unloading and spreading 3,400 loads of gravel was $1,948.50. For the short hauls it cost fifty cents and for the longer hauls seventy-five cents per load. Where the road consisted mostly of yellow clay about four yards of gravel to the rod were used while places where the soil was inclined to be sandy about one yard to the rod was placed on the surface. Graders were used to spread the gravel to the width of about twelve feet.

According to these figures it cost $1,948.58 to gravel four and nine-tenths miles of road, 3,400 loads of gravel being used for the purpose. This is practically $400 per mile which together with the cost of grading amounts to a trifle over $500 per mile. It might be interesting to state in this connection that shovelers were paid $2.00 per day for nine hours' work. Mr. Bolton found that a team could conveniently cover a distance of ten miles a day loaded. This, of course, would mean traveling a distance of twenty miles. It was found advisable at all times to use a snap team out of the gravel pit and with this assistance the average farm team could easily handle a yard and one-third at each load.

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The unequaled convenience of the Mitchell automobile is due to the left hand drive with *center* control, the electric starter and the electric lighting system.

Comfort is assured by the extra long wheel base, the deep upholstery and the French Belaise springs.

All Mitchell 1913 cars have left drive and center control; Bosch ignition; Rayfield carburetor; Firestone demountable rims; rain-vision windshield; Jones speedometer; silk mohair top with dust cover; Turkish upholstered cushions; Timken front axle bearings; gauges on the dash to show air pressure and oil pressure; gauge in gasoline tank showing amount of gasoline it contains; and a portable electric lamp which also illuminates the instruments on the dash.

All with T-head motor, electric self-starter, electric lighting system, and 36-inch wheels

	Motor	Wheel Base	Price F.O.B. Racine
7 passenger Six	60 H. P. 4¼x7 in.	144 in.	$2,500
2 or 5 passenger Six	50 H. P. 4 x6 in.	132 in.	1,850
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FARM FURROWS
TURNED BY A PRACTICAL FARMER

All rough feed has fed out from the field in fine shape so far this season, being almost as bright as the day it was cured. I am hauling in fodder from the shock now, and it looks pretty enough to make into tea—that is, the leaves do. I imagine it would make as good tea, too, as some of the cheap stuff that can now be purchased under the name of tea.

The milker who loses his temper around the dairy barn at milking-time is pretty sure to lose some dairy products as a result.

A good way to spoil a child's term of school is to side in with the child when there is a petty grievance against the teacher, and to "egg" the child on to make it as disagreeable for the teacher as possible. A child's education is worth too much to fool away in spite.

When attempting to "break the ice" with a new-found acquaintance try a melting smile.

Help the women folks out with the washing these wintry days, as this is not so much a time of idleness with them as it is with most of the men folks of the farm.

Dragging snow off the roads does just as much good to the roads as to drag the bare roadway when in condition to do the most good. The slip of the drag is, of course, reversed when dragging the snow off the grade.

Snow blowing into the hog house does the occupants therein no particular good. It does melt and make the bedding wet. A hog isn't prospering when compelled to sleep in damp bedding.

Many of the Russian farmers live in communities, sometimes a mile or two from their farm or the furthermost borders of their farm. Here in America we would object to going that far to our work, and the most of us do not like to have too close neighbors. I am sure the Russian farmers do not raise much poultry, especially turkeys.

Order all seeds in time to give them a thorough test.

I heard a man say the other day, that he could raise a heavy draft horse cheaper than he could a little insignificant pony, weighing scarcely 1,000 pounds. I was on the point of asking for his formula when he passed on. I am a believer in the draft horse, but I cannot understand how it is possible to produce it cheaper than the pony.

No incubator on the farm yet? Better look one up while it is fresh on your mind and you are in the notion.

The present high price of beef is interesting a great many in the old-fashioned way of raising cattle by keeping stock cows just for the increase. It would be profitable to keep a herd of cows on the very highest priced farm land just for a calf from each, annually, if prices should remain this high, but I am afraid the farmer on high-priced land had better stick pretty close to dairying and let the man on cheaper land raise the beef calves.

Tack some old felt or leather on the bottom of the ladder, and thus avoid the danger of serious accidents by its slipping.

It does the herd of milk cows no good to drive them a quarter or a half mile to water, with the thermometer saying it is zero, then to compel the cows to get down on their knees on the ice to reach the water when they get there. You can safely figure a shrink of 20 per cent arising from such inconvenience and exposure.

The women folks are beginning to talk about hen setting and incubator management. Although below zero, cheer up, for here is the first harbinger of spring.

Just now we are sick of the sight of ice, but next summer it will look good to us—a reminder that a small ice house on the farm, filled with what is now plentiful, will prove a blessing.

Compressed air can be made to do a great deal of useful work, and nothing more useful than to force water where wanted about the house and farm buildings. A little compressed air does wonders in moving water through pipes and is much more satisfactory than to depend upon gravity.

Being economical by putting on an insufficient amount of grass seed when seeding is a small saving at a big expense.

It is quite commonly believed that to severely trim fruit trees, to drive railroad spikes in the trunks and otherwise bruise the trees induces bearing of fruit. It comes about in this way—such treatment hastens the death of the tree, and all trees when struck with death put forth an effort to reproduce before death. Thus fruit bearing is often brought about at the expense of the tree.

Good shelter means solid comfort and less feed.

The right time to halter break colts is when the colt is still so small you can make it behave. I start with the halter by midsummer, and at weaning time the colt is thoroughly halter broke. This is better than to wait so long that the colt has the strength to

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Largest manufacturers of Horse Nails in the World.

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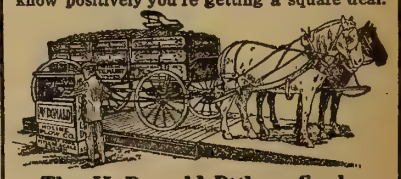

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handle you instead of you being able to handle the colt.

Have you inspected this season's supply of garden seeds? You may need to buy more of them than you thought. Not only those which are actually spoiled, but some that seem good will, when closely examined or tested, show such weak germinating qualities as to be absolutely worthless.

See if any of the weaker bee colonies are getting short of supplies.

We rarely hear of a farmer sending away for a change of seed oats, neither do we notice any appreciable increase in the yield of oats. In nine out of every ten neighborhoods the oats simply have degenerated and "run out" till the production is only about one-half what it should be.

Just because ducks and geese quack around and act lively is no reason why they should not be given a little attention during cold weather. See that they have some good water to drink, toss them a little clean grain feed every feeding time, and above all furnish them a shelter at night, where they will not freeze their feet.

Have all the hot-bed material right at hand to put in the first favorable day for the work.

It is very easy to run a store bill, but hard work to catch up with one.

W. M. SWAIN, PRESIDENT OF THE INDIANA SILO COMPANY.

THIS is an age of rapid development. The stripling today is the giant tomorrow. Vast industrial enterprises spring up almost in a night. Ten short years ago two young men of far-reaching vision grasped the possibilities of the silo on the American farm, and with practically no capital, but possessed of unbounded enthusiasm and a capacity for hard work, organized what has grown to be a gigantic industrial organization, employing several thousand men, doing a business that runs each year into the millions, and shipping its products all over the grain belt. The story of W. M. Swain, president of the Indiana Silo Company, is the fascinating story of the success that comes to energy conducted along the right lines. When Mr. Swain and his partner, Mr. Wilson, organized the Indiana Silo Company, the silo was just coming into an existence of practical utility. It had been demonstrated as a success and a great acquisition to the American farm, and the Indiana Silo Company may be said to have appeared upon the scene at the psychological moment. The agricultural press and the agricultural experiment stations had awakened farmers to the benefits to be derived from scientific farming, and there was a replacing of the old slip-shod methods with new ideas and broader measures. Mr. Swain is a product of the farm, descended from a long line of Quaker ancestry, inculcated with the idea that only honest effort and honest product can achieve success. He won his spurs, at an early age, in the employ of The Iowa Homestead representing this paper as a live stock field man in Indiana and Ohio. His talent for winning and keeping friends, for honest representation and for industry and perseverance made him an unqualified success in this work and he left it only to embark on the bigger venture with the best wishes of his employer and associates. Starting the silo business with practically no capital, not a customer on the books, no organization and no credit other than that inspired by the known integrity of the men behind the proposition, the management of the Indiana Silo Company has seen that institution grow from a total output of only forty-eight silos during the first year of business to an industry that has a capacity for making over 100 silos per day. Mr. Swain is a young man still in his thirties, but he has achieved a measure of success that comes to few men of even far more advanced years. But it is success that has been honestly earned and that represents untiring energy, a capacity for hard work, and an ability to foresee the future development of the agricultural conditions of the country. Mr. Swain not only has been a prime factor in the success of his company as its directing head, but he early earned his spurs as a salesman, and pioneered the silo field when the sentiment of the farmer was far from favorable to the silo. He is a striking example of what can be accomplished when a man puts honest effort back of an honest proposition.

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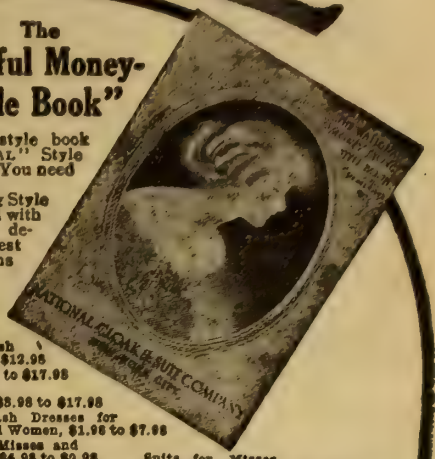

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How do You figure the Cost of your farm machinery—the price of the machine alone, or what it takes to run it?

This splendid Low Down Spreader is not only easy to load, being but 42 inches in height at the rear wheels, but it is also

"The Lightest Draft Low Down Spreader Ever Built."

We have seen the large size Moline Spreader in use in a field with other makes, under exactly the same conditions, when it required one horse less to operate the Moline Spreader than was necessary to operate the others.

In figuring the cost, then, there is a saving in buying the **Moline Spreader** equal to the price of one horse.

Correct Mechanical Construction—Steel Frame—Steel Wheels—Steel Beater—Chain Drive—Roller Bearings.

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Which Tells About the Greatest Improvement of Farm Wagons in 50 Years

The Peter Schuttler Patented Roller Bearing has revolutionized wagon construction. Official tests by Road Experts of the U. S. Agricultural Department show remarkable results. Every farm wagon will soon have roller bearings.

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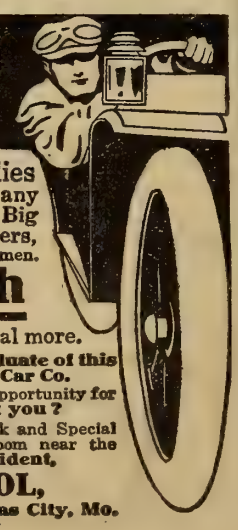

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CURRENT EVENTS

THE formality of the members of the electoral college meeting and casting the votes of the various states for the presidential candidates was gone through with last week, the result being the formal declaration of the election of Governor Wilson. Unofficially the votes of the three leading candidates are as follows: Wilson, 6,303,063; Roosevelt, 4,168,529; Taft, 3,439,529, the plurality of Governor Wilson being 2,134,449. At last week's meeting of the electoral college the votes of two states, Utah and Vermont, were cast for Taft for President and Nicholas Murray Butler (president of Columbia University, New York City) for vice-president, Dr. Butler having been chosen by the republican national committee to fill the vacancy caused by the death of Vice-President Sherman; the votes of five states were cast for Roosevelt (Minnesota, Michigan, Washington, California and Pennsylvania); the votes of the remaining forty-one states were cast for Woodrow Wilson, while owing to the peculiar election law in California he received the votes of one of the eleven electoral districts in that state. On the day that this formality was being carried out, President-elect Wilson addressed the electors of New Jersey, pledging himself anew to align himself with the progressives and to pick out only progressives to aid him in running the government. The electors of the various states met in their state capitals and chose one of their number to act as messenger to carry the result of the ballots to Washington, where, on February 12th, the returns will be canvassed by congress and the last formality of the election observed.

ROBERT W. ARCHBALD, of Scranton, Pa., for twenty-nine years an occupant of the Pennsylvania state bench, federal bench and the United States Commerce Court, was declared guilty by the United States Senate of "high crimes and misdemeanors," was stripped of his office and forever disqualified from holding a position of public honor or public trust. Judge Archbald was found guilty on five of the thirteen charges preferred against him, the chief ones being that he used his judicial position for his personal profit and that he induced railroads while litigants in his court to enter into business deals by which he profited in large sums of money. Judge Archbald was appointed to the commerce court by President Taft, who has repeatedly blocked every effort on the part of congress to dispense with the court, which has been found not only useless, but a deterrent to the execution of the orders of the interstate commerce commission. It will be recalled that the commerce court was created by the iniquitious Wickersham bill, which was so amended by the progressive senators (under the able leadership of Senator Cummins, of Iowa,) as to lose all of its original intent and harmful effect with the single exception of the creation of the commerce court to review the findings of the interstate commerce commission. The impeachment of Judge Archbald, together with the record of the court (which in a great majority of cases has overruled the interstate commerce commission and decided in favor of the railroads, at the expense of shippers), will probably bring about an early repeal of the law which created this court. The impeachment of Judge Archbald is the third successful one in the history of the United States and the only one in which the defendant appeared to answer the charges preferred against him.

RESUMPTION of war between the Balkan states and Turkey is looked upon as inevitable, due to the failure of the peace delegates at London to arrive at a decision. Turkey has been following a policy of procrastination and on the plea of waiting for instruction from Constantinople the Turkish delegates have succeeded in making the Balkan delegates mark time in London for several weeks. At last, with their patience exhausted, the Balkan ministers issued an ultimatum declaring that unless Turkey surrendered the territory demanded, and particularly the fortress of Adrianople, the peace conference would be called off and war would be resumed at once. Inasmuch as Adrianople is one of the sacred cities of the empire the Turks refuse to surrender it, although it has been besieged for weeks and there is every reason to believe that another week's decisive fighting would compel its capitulation. The Balkan delegates declare that they will not listen to another peace proposition from Turkey until they are at the very gates of Constantinople and that the peace terms of the next conference will be all their own way and include the surrender of all of Turkey-in-Europe, with the exception of the city of Constantinople, together with a war indemnity of at least $200,000,000. During the peace conference the Balkans have arranged for heavy loans and have renewed their fighting forces, so that they take the field once more confident of continued success.

FREE rough and dressed lumber, hewn and squared timber, shingles, lath and fence posts will be admitted free of duty under the present plan of the house ways and means committee. The tariff hearings have progressed to such a stage that announcement of the removal of tariff from lumber and from the cheaper grades of silk used by the common people, together with its retention on the higher grades of silk, has been made. This decision has been arrived at by the ways and means committee of the present house, under the leadership of Chairman Underwood, who will be chairman of the ways and means committee of the special session before which the actual work of tariff revision will come. Discussing his plan Chairman Underwood said: "We ought to get a large amount of revenue on luxuries so that we can put a smaller tax on the necessities of life. Where there is a large percentage of imports we do not want to cut the rates. We are desirous, however, of cutting the rates where there is no competi-

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tion." The remainder of the month will be devoted to a continuation of the tariff hearings.

THE issue of early Filipino independence looms larger than ever before, due to the conference of the Filipino delegates to congress, Manuel Quezon, with President-elect Wilson. Mr. Quezon declares that his people have progressed to such a stage that it would be practical to give them entire independence within the next four years, whereas the Jones bill, now pending in congress, proposes eight years. Mr. Quezon has urged on the president-elect the advisability of making a trial of self government by appointing as members of the Philippine commission, the upper house of the present Philippine government, only native Filipinos, instead of Americans, now constituting the majority. It is known that Governor Wilson is favorable to the plan of letting the islanders rule themselves, while the democratic national platform declared squarely for this issue. Unless party lines are strictly adhered to, however, it will be difficult to get the Jones bill through congress, as the republicans are practically a unit in supporting President Taft and in holding on to the islands which came to the United States unexpectedly, as a result of the Spanish war. Whether the islands will ever be anything but a liability and an expense is a much debated question, on which the old-line parties disagree. There are those who would be only too glad to let go of the islands, upon which troublesome outbreaks of the natives are frequent, while others are as insistent that they are far too valuable to be thrown away after having cost so many American lives and dollars.

SENATOR GORE, of Oklahoma, has introduced a bill in congress increasing the membership of the United States Supreme Court from nine to eleven and providing that seven of the court shall constitute a quorum. The evident intention of Senator Gore is to give to President-elect Wilson the appointing power for at least three or four members of the court, in order by progressive appointment to offset the large number of conservatives appointed to the court by President Taft. With the two additional members and with one or two old members who are likely to retire during the next administration, President Wilson would be in a position to appoint almost as many members as President Taft and owing to his repeated declaration that only progressives will be called to assist him in the government the conservative majority in the United States Supreme Court would be offset. Senator Gore's bill created a stir in congress when it was introduced and it is said there is good prospect of its being passed at the special session. Inasmuch as Senator Gore has lately returned from a conference with Governor Wilson it is believed that his bill has the sanction, tacit at least, of the president-elect.

WOODROW WILSON'S views on "big business" were outlined before a recent meeting of Chicago bankers and railroad magnates. The president-elect made it plain that he believes in "big business" and does not care how large it grows, "provided it grows big in contact with keen competition." Instead of arguing for a stricter enforcement of the Sherman anti-trust law or any governmental regulation, he urged his hearers to take the initiative in bringing business into the fold of upright conduct, declaring that the business future of the country does not depend upon the government, but upon the businessmen themselves. Elaborating this idea the president-elect said "The government cannot breed a temper, it cannot generate thought and purpose. Things done under the whip of the law are done sullenly, somewhat reluctantly and never successfully. The hope of America is the changing attitude of the business men toward the things they have to handle in this country. I want to take sternness out of this country. I want to see suspicion dissipated. I want to see the time brought about when the rank and file of the citizens of the United States who have a stern attitude toward the business men of the country shall be absolutely done away with and forgotten. Perfectly honest men now are at a disadvantage in America, because business methods in general are not trusted by the people, taken as a whole. That is unjust to you; it is unjust to everybody with whom business deals and everybody whom business touches." The idea gained from his speech is that he proposes to use moral suasion rather than the "big stick" and that he has high hopes of the co-operation of business men generally, so that governmental investigation and prosecution will not be so necessary in the future.

THEODORE ROOSEVELT takes the ground that it is absolutely impossible for the republican and progressive parties to come together unless the republicans accept the plans and platform of the new party. Overtures have been made by a number of republican leaders and by such progressives as Senator Cummins, of Iowa, who, while coming out for Roosevelt for president, remained loyal to the republican state ticket and who now maintains that if "the proposed republican convention soon to be held reforms the basis of representation and takes steps to sustain the state primary laws, 75 per cent of the voters of the republican party and progressive party would vote under one party head." This same proposition has been advanced by no less a progressive leader than Frank A. Munsey, the prominent newspaper and magazine publisher. Replying to his overture Colonel Roosevelt, "simply speaking as one of the men in the ranks of the progressive party," declared that the progressives should "no more enter into a combination with the republican machine than with the democratic machine." Continuing Colonel Roosevelt said: "I firmly believe that all good progressives who may happen yet to adhere to either the republican party or the democratic party will in the end see that the chance for honest government and for the practical achievement of social and industrial justice lies in the progressive party, and only in the progressive party." Regardless of whether they were republicans or democrats in the recent contest Colonel Roosevelt declares that honest men who believe in the progressive principles will be welcomed to the ranks of the new party, concluding his statement by saying: "We will treat them on an entire equality with ourselves, and will work hand in hand and shoulder to shoulder with them for the betterment of the social, industrial and political conditions of this great nation." Following President Taft's speech, at the recent reorganization dinner, it is proposed to make a number of reforms in the republican party, notably in regard to the cutting down of the unfair representation of southern democratic states and in granting the people state-wide primaries.

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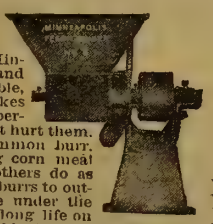

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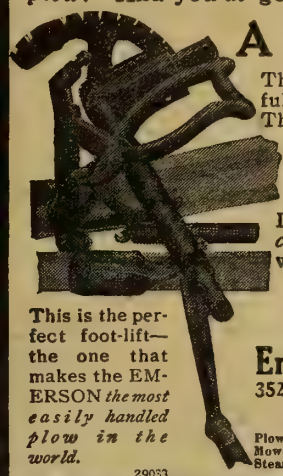

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SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

ELOPEMENT OF MINORS.

A Subscriber, Oskaloosa, Iowa.—(1) Can a young couple not yet of age, living in Iowa, elope to Missouri and get married there without the consent of their parents? (2) If they should do so would the marriage be lawful? (3) How can I proceed to get the girl back?

Answer.—(1) Previous to any marriage in Missouri a license must be obtained from the recorder of the county where the marriage is to take place. And the law provides that no recorder shall issue a license to a man under twenty-one years of age or a woman under eighteen years of age, unless by consent of the parents or guardian in writing, unless they be present to give such consent. If the recorder issues a license where the parties are under age he is guilty of a misdemeanor and liable to a fine of $500. (2) However, if such marriage actually takes place it is not void. (3) You could obtain custody of the girl before the marriage takes place by suing out a writ of habeas corpus in the circuit court of the county where you find the girl.

HUNTING IN OKLAHOMA.

A Subscriber, Calera, Okla.—(1) Please tell me something about the hunting laws of Oklahoma—who are entitled to hunt and where it may be done? (2) How can the owner of a twenty-acre farm keep hunters away from it?

Answer.—It is unlawful to hunt antelope at all. The open season for deer is between November 1st and December 1st. It is unlawful to kill any deer without horns, and only one buck can be killed by a person during the hunting season. Open season for quail, November 15th to February 1st. One wild turkey gobbler between March 15th to April 15th, and three wild turkeys from November 15th to January 1st. Prairie chickens from September 1st to November 1st. Ducks, geese, brant, swan and crane from August 15th to May 1st. Various other limits for lesser game. Any citizen of the state over fourteen years of age may obtain a hunting license from the game and fish warden or from the county clerk, by filing his application and a descriptive affidavit and paying a fee of $1.25. (2) Such owner can have the hunters arrested and prosecuted for a misdemeanor. The penalty is a fine not less than $10 nor more than $100, or imprisonment in county jail not less than ten nor more than thirty days, or both fine and imprisonment.

SUIT ON NOTE—CREDITS.

A Subscriber, Grand Junction, Colo.—A borrowed $1,000 from B, payable in three years with 10 per cent interest payable annually, and gave his note therefor and put up as collateral security five shares of stock in an insurance company, upon which $1,000 had been paid. The insurance company was not notified of the transaction and dividends were received by A semi-annually from the company. The note was not paid when due, but B wanted the interest. About seven months after the note was due B notified A that he had price quotations on the stock at $300 per share, and requesting A to come and sign over the stock. A did not go, but sent power of attorney to sign and the matter was handled by B's bankers and the five shares were sold for $675 instead of $1,500. B was then informed that $300 was the company price, and that obtained was curbstone or broker's price. B then authorized the recovery of the stock or other certificates, but did not secure them. A was then informed of the transaction and asked what was to be done, and A gave instructions to dispose of the stock for not less than $900. A heard nothing more for five months and was then informed that the stock had been sold for $675, thus leaving a balance on note of $325 and accrued interest of $165. If suit is brought can B recover said balance and interest on note?

Answer.—If B brings suit on the note for balance and interest A should employ a lawyer to set up a claim in defense for the difference between $675 and $900, viz., $225. A is entitled to at least that much credit and perhaps he could claim more on account of the representation of B that the price quoted for the stock was $300 per share.

PARTITION FENCE.

Mr. Frank Scherer, Buckhart, Mo.—I want to fence some wild timber land for a cattle pasture. (1) If I put my fence on the boundary line can the owners of adjoining land, when they get ready to fence their land, use my fence without paying me for half the value of it? (2) If they can so use it how far from the line must I set my fence in to prevent them from using it without payment to me?

Answer.—(1) They cannot use your fence without paying half the value of it. When the parties get ready to use their land if you cannot agree with them you should call upon the fence viewers to assign to each party the part of the division line he is to keep fenced and make an estimate of the value of half your fence, and if the parties refuse to pay for sixty days after such value is fixed and your demand for payment, you can by suit recover the value together with viewers' fees and costs. (2) You should set your fence exactly on the line.

PARENTS' LIABILITY.

Mr. Joe Vogel, Jefferson, Wis.—Where city children go out into the country and do damage to buildings by breaking windows and breaking door locks to empty houses and the like, are their parents liable for such damages?

Answer.—The parents are not liable for such damages where the acts were done without the knowledge or consent of the parents. Generally parents are not liable for the wrongful or unlawful acts of their children unless it be shown that they approved or consented to such acts.

RECOVERY OF LAND BY HEIRS.

Mr. A. E. Danforth, Winterset, Iowa.—A and B were husband and wife and A owned 800 acres of Iowa land thirty years ago. He died, leaving a will by which he gave his wife eighty acres of the land, and 200 acres to C, a son, and to another son, D, he gave the balance of the land, 520 acres, to hold and control during D's lifetime, and at his death to go to D's heirs, E, F and G. At A's death, twenty-five years ago, B, C and D came into possession of said land. B and C brought suit to set aside the will in order to give D absolute right and title to the 520 acres, but the will has never been set aside. However, D disposed of the 520 acres and died recently. His three heirs are of age. Can they recover said 520 acres of land?

Answer.—D had only a life estate in the 520 acres of land and therefore could only sell his life interest in it. When he died his heirs, E, F and G, were entitled to the title in fee, and they can recover the land by a suit in the district court.

HEIRS' CLAIM TO LAND.

Mr. J. D. Laughlin, Haigler, Neb.—A got a patent from the government for a homestead in Missouri in 1902 and had it recorded in 1907. A died and his widow sold the land to B with court proceedings, giving a clear abstract of title to the same. B sold the land to C, giving him a clear abstract of title. What claims, if any, have A's children to the land?

Answer.—If the court proceedings were regular and the abstract of title showed right of the widow to sell the land, A's children have no lawful claim to it. However, a positive and reliable answer to the question could only be made after an examination of the court proceedings which authoriz-

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The man who gets it tells his friends he got a lucky car.

But every buyer of Reo the Fifth gets a lucky car. This is how I insure it.

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A lucky car means simply a car built with proper care and caution. I have spent 26 years in learning all that is necessary.

I have all of my steel made to formula. Then every lot is analyzed twice to prove its accord with the formula.

Then the finished parts are tested. In every part I require over-capacity, not less than 50 per cent.

The gears are tested in a crushing machine, to prove that each tooth will stand 75,000 pounds.

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I use big tires—34x4—to save you tire expense and trouble. This year, by adding 30 per cent to my tire cost, I have added 65 per cent to the average tire mileage.

I use in this car 190 drop forgings, to avoid all hidden flaws. Steel castings would cost half as much.

I use 15 roller bearings—11 of them Timken, 4 Hyatt High Duty. The usual ball bearings cost one-fifth as much, but ball bearings often break.

I use a $75 magneto to save ignition troubles.

I doubly heat my carburetor—with hot air and hot water—to deal with low-grade gasoline.

I use a centrifugal pump, instead of a syphon, to insure positive circulation.

I use 14-inch brake drums for safety. Also seven-leaf springs, two inches wide.

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The various parts of this car, during the making, get a thousand tests and inspections.

Each engine, for instance, is tested 48 hours—20 hours on blocks, 28 hours in the chassis.

Fitted parts are ground over and over, until we get utter exactness.

Each body is finished with 17 coats. It is deeply upholstered with genuine leather, filled with the best curled hair.

The electric dash lights are set flush with the dashboard. Thus the car's appearance shows the care we use.

Center Control

No other car has such easy control as you find in this Reo the Fifth.

All the gear shifting is done by moving a handle only three inches in each of four directions.

Both brakes are operated by foot pedals. So the car has no levers, either side or center, to clog the way in front.

You get in this car the wanted left side drive. The driver sits close to the cars he passes. Yet you shift the gears with your right hand, just as with the old right hand drive.

Costs Me $200 Per Car

Reo the Fifth, without these precautions, could be easily built for $200 less. For the first few months you might not know the difference. But in years to come this skimping might cost you several times $200.

I know this well, for I have built cars for 26 years — over 60,000 of them. I know the cause of troubles.

I save this $200 per car by building only one model, by building all my own parts, by wonderful factory efficiency. And I put that saving into these extremes, to save you after-cost.

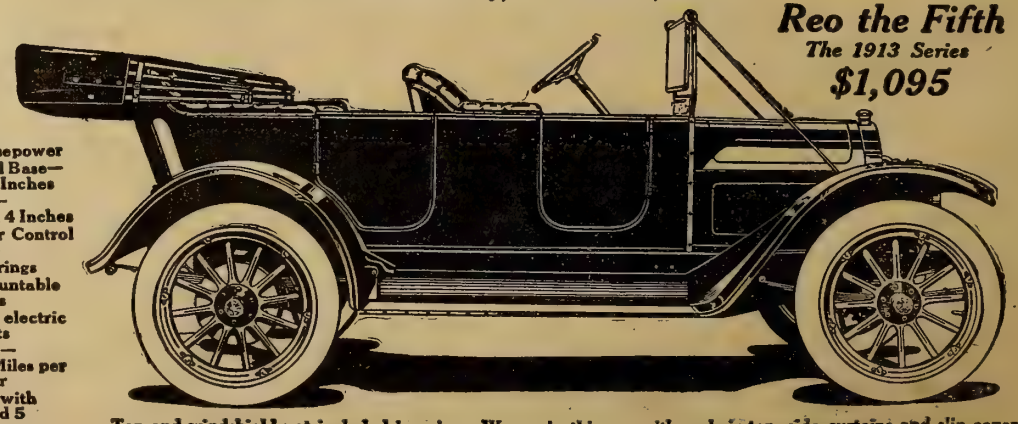
If you think that it pays to have a car like this, ask us to send you the details.

Our thousand dealers now are showing the 1913 model of Reo the Fifth. Write for our catalog and we will tell you where to see the car.

R. M. OWEN & CO. General Sales Agents for **REO MOTOR CAR CO., Lansing, Mich.**

Canadian Factory, St. Catharines, Ont.

Reo the Fifth
The 1913 Series
$1,095

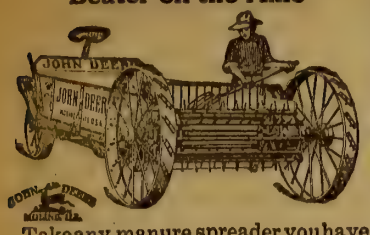


30-35 Horsepower
Wheel Base—112 Inches
Tires—34 x 4 Inches
Center Control
Roller Bearings
Demountable Rims
Three electric lights
Speed—45 Miles per Hour
Made with 2 and 5 Passenger Bodies

Top and windshield not included in price. We equip this car with mohair top, side curtains and slip cover, windshield, gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for $100 extra (list price $170).

John Deere Spreader

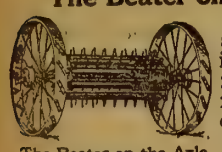
The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

The Beater on the Axle



The Beater on the Axle

The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

Out of Gear

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.

Only "Hip-High"

Easy to Load

Because the beater is mounted on the rear axle, it is only "hip-high" to the top of the box. Each forkful of manure is put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—*Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y.27*

John Deere Plow Co.
Moline, Illinois

One day's work pays for it

14 Tools in One

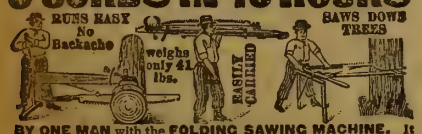
T. F. Hagen, cashier bank, Glendive, Mt., paid for machine in one day's work. His letter and thousands more from users prove big saving of time, money, labor. Rapid artificial diamond wheels sharpen sickles, discs, axes, saws, plow points, ensilage knives, etc., amazingly quick. We send machine on free trial.

LUTHER DIMO-GRIT GRINDER

has metal frame, enclosed shaft-drive, dust proof bearings, runs easy as sewing machine. 25 times faster than grindstone, 10 times better than emery. Will not draw temper. Special attachments—forge, milk tester, jig saw, rip saw, lathe, drill, etc., furnished. Fully guaranteed. Write for free book on tool grinding and liberal free trial offer.

LUTHER GRINDER CO. 412 Stroh Bldg. Milwaukee, Wis.

9 CORDS IN 10 HOURS



BY ONE MAN with the **FOLDING SAWING MACHINE.** It saws down trees. Folds like a pocket-knife. Saws any kind of timber on any kind of ground. One man can saw more timber with it than 2 men in any other way, and do it easier. Send for FREE illustrated catalog No. A36 showing Low Price and testimonials from thousands. First order gets agency.

FOLDING SAWING MACHINE CO.
257-263 West Harrison St. Chicago, Illinois

ed the sale of the land by A's widow. Better have a local lawyer examine said proceedings.

DEED AND WILL—RECORDING.

A Subscriber, Iowa.—(1) Can real estate be left to a friend by a deed which is not to be recorded until the death of the owner, or is a will necessary to effect such purpose. (2) How soon after a deed is made must it be recorded?

Answer.—We infer that the purpose to be accomplished is to deed land to a person and not have the deed recorded nor take effect till the maker of the deed dies, he to have full control and ownership of the land during his lifetime, the object evidently being to have the deed really take the place of a will. We advise against this course and think it a much better way to make a will. (2) The law does not fix a limit. A deed may be recorded at any time after it is executed. It is safer, however, to have a deed recorded soon after it is made.

HUSBAND'S DEED TO WIFE.

A Subscriber, Wapello, Iowa.—(1) A man owns property and money in his own name, without encumbrance thereon, and he wishes to put part or all of his land in his wife's name. Can he do so by deeding it directly to her? (2) In case he does so can she hold it if in after years the husband gets in debt? (3) Can he so deed the land to his wife that it will go back to him in case she dies first?

Answer.—(1) A man can lawfully deed his property to his wife in Iowa. (2) If the man is not in debt when he makes such a deed and has no fraudulent purpose in making it, his wife can hold the property, even though the husband afterwards incurs debts. (3) He can.

WIDOW'S PORTION—MORTGAGE.

A Subscriber, Iowa county, Iowa.—A man died intestate, leaving his farm mortgaged, and owing notes and other debts. Is his widow entitled to her third part of his estate before the outstanding debts are paid?

Answer.—If the mortgage was given for purchase price of the land, or if the wife joined her husband in making the mortgage the amount secured by the mortgage must first be paid before the widow can have her distributive share in the land, that is, her third of the land is subject to the mortgage. As to all other debts not secured by mortgage she is entitled to her third not subject to such debts.

RIGHTS OF RENTERS.

Mr. R. W. M., Humphrey, Neb.—A and B rented a half section of land from C and have been farming it. During the first year the land was farmed as a sort of partnership transaction, there being no division made in the land by C as between A and B. Afterwards one farmed a field here and the other a field there, wherever it was convenient. This proving unsatisfactory, C divided the land, giving A the quarter section with the improvements and B the other quarter. A has a family and B boards with him. It was verbally agreed between A and B that B should share the corncrib, granary and barn with A, but this fall the crib did not hold all the corn and B deliberately piled some of his corn on the ground around these improvements, well knowing that A had pigs running on the ground which A pays cash rent for. B demands that A shall prevent his pigs from running on this ground. Can he recover damages from A for the injury done to the corn by the pigs?

Answer.—He cannot. B had no right to pile his corn on the land rented by A when he knew A's pigs were running upon it. He will have to bear the loss occasioned by his own carelessness and want of prudence.

POSTAGE ON LETTER.

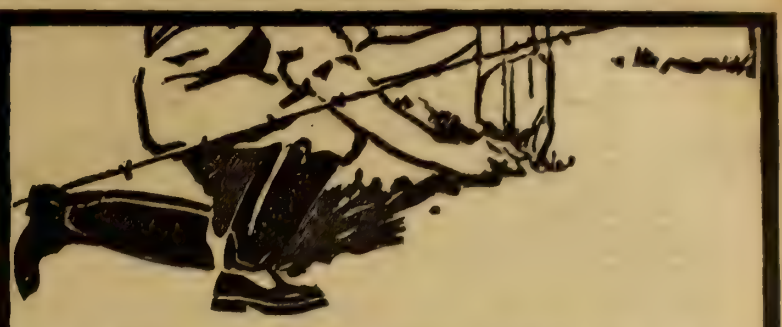
Mrs. Alex. Hensley, Lexington, Ill.—Is it unlawful to remove from a self-addressed envelope the stamp printed thereon and use it on a plain envelope, and if so, what is the penalty for such an offense?

Such an act is not a criminal offense and there is no penalty therefor, but the consequence would be that the stamp cut from the government envelope and pasted on another envelope would not pay the postage thereon, and the postmaster would not forward the letter for want of postage.

DAMAGE BY CHICKENS.

A Subscriber, Denver, Ill.—A and B live on opposite sides of a road. A keeps chickens on his place and they cross the road and go upon B's land, but do no damage. A has a hedge fence and B has a hedge fence. B demands that A shall make a chicken-tight fence and keep his chickens on his own place, but A will not do so and is willing to pay for what damage his chickens do. Can B compel A to keep his chickens on his own place?

Answer.—He cannot compel A to make a chicken-tight fence, but if A's chickens do damage to B's premises he can recover for such damage by a suit at law.



A Fence Post Gives Way at the Bottom First—So Does an Ordinary Rubber Boot

Right on the sole where earth, air, water and wear join forces to rot everything they touch, "Ball-Band" Boots give famous service. It takes good brains and experience as well as good rubber to make a rubber boot and all of these enter into the making of "Ball-Band" Boots. From straps to heel "Ball-Band" Boots are built strong.

"BALL TRADE MARK BAND"

RUBBER FOOTWEAR

"Ball-Band" Boots are made to work in—not just to put on in *very* wet weather. Wherever the brush strikes above the shoe tops—wherever there's more wet than leather can stand you need rubber boots, and "Ball-Band" Rubber Footwear is made for the man who knows this. Take a "Ball-Band" Boot and wear it out—you'll find it a harder job than you thought because these boots are made to resist wear. They are made by men who know how to make them stand the snags, the bumps of frozen ground and the kicks of clods and rocks.

We only claim for "Ball-Band" Boots what they ordinarily ought to do. Many friends have written us some remarkable records of what "Ball-Band" goods have done.

Look for the Red Ball which is the "Ball-Band" trade-mark. You will see it in the store windows and on the boots. Remember when you buy "Ball-Band" Boots or Arctics that you make a long time investment in rubber footwear. If you figure the cost per day's wear you will find that "Ball-Band" Rubber Footwear is the cheapest you can buy.

We also make a rubber hip boot. If you fish much or farm on irrigated soil you need this boot. You can wear it into water almost waist deep and stay dry as a gun barrel.

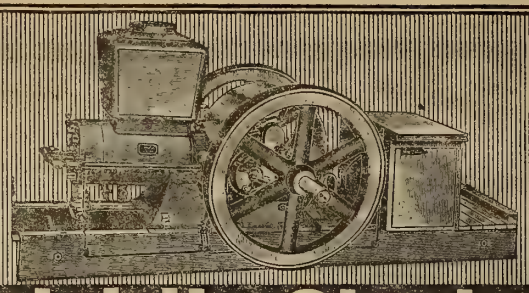
The "Ball-Band" Coon Tail Knit Boot is made of thick *knitted* wool—not felt, insuring the utmost wear and service. These wool boots are shrunk as only we know how to shrink them and shaped to a shape that stays. They can't shrink any more, hence they can be washed and the snow excluder keeps out of the rubber the chaff and mud as well as snow. Your feet and legs will stay warm in a blizzard when you wear this boot into the frozen snow. We are the only people making a really high grade boot of this character.

Look for the "Ball-Band" sign—the Red Ball in store windows and on the boots. If the name "Ball-Band" is not there, you are not buying the boot we make. 45,000 dealers sell "Ball-Band" Footwear. If your dealer does not sell "Ball-Band" Boots we invite you to write us. We'll send you the name of a nearby dealer who can supply you.

Write for Free Illustrated Booklet

Mishawaka Woolen Mfg. Co.,
315 Water St., Mishawaka, Ind.

"The House That Pays Millions for Quality"



Electricity Starts the Fly Wheels Spinning

NEVER again, need you hump yourself to crank a gasoline engine.—Never, need you experience the fussing, delay and inconvenience of getting your engine started. The Electric Starting Woodpecker solves the most annoying problem that ever troubled the farmer—a touch of a button sends the wheels spinning—works as sure and certain in January as in July. Don't be content with any other—*you never could be satisfied.*

And besides having this, the most ingenious labor saving device ever put on a farm engine, you will find the

Electric Starting WOODPECKER

contains a startling array of strong features that excels any engine ever manufactured, yet it costs no more than ordinary engines. Just a few of its countless features are:

The self-priming gasoline mixer insuring easy cold weather starting. Hopper cooler the only successful system to keep cylinder at *proper* heat. Mounted on steel girder sub-base so you can place it anywhere at a moment's notice.—*No foundation necessary.* Self-contained equipment—no pipes or wires to get out of order or reconnect when moved. *Develops a big surplus above rated power.* Speed can be changed while running. Minimum fuel expense. Fully guaranteed. And then there's our big, liberal

30 Days Free Trial

that lets the engine sell itself. It will cost you nothing to use this engine on your farm *30 days free—not even a deposit.* Write us *quick* for our proposition. You may be sorry if you close any deal before you get our offer. Write today for our free book and full particulars.

The Middletown Machine Company
1313 First Street, Middletown, Ohio.

Write For Free Book

STEEL Tractors Have Come

Why pay $2,000 to $3,000 for a clumsy **iron** tractor outfit that wastes one-fourth your fuel in pulling itself, that can't get into fence corners, that can't be used on soft ground? Why do it, when for less money you can get a powerful Bates All-Steel Tractor?

The Bates, being **all steel** and not iron, weighs nearly 8,000 lbs. less than other tractors of same power! That means a **tremendous** fuel saving, and you can plow faster and can harrow your fields, **FOR THE BATES DOESN'T PACK THE SOIL.**

Turns Square Corners

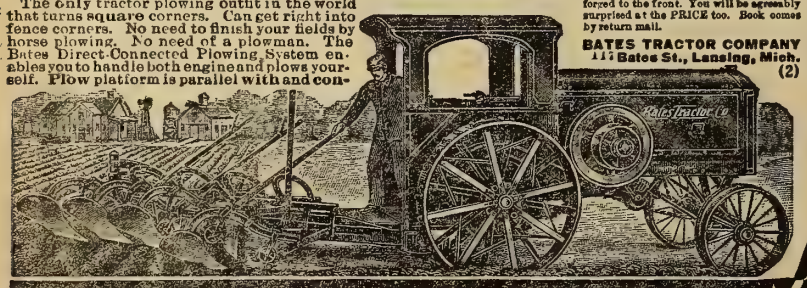
The only tractor plowing outfit in the world that turns **square** corners. Can get right into fence corners. No need to finish your fields by horse plowing. No need of a plowman. The Bates Direct Connected Plowing System enables you to handle both engine and plows yourself. Plow platform is parallel with and connected with the engine platform. No getting off to handle plows. No heavy lifting. Controlling levers in easy reach. Only one adjustment required.

The Bates All-Steel Tractor will plow, disc, harrow, roll or seed any part of any field that horses can work in. Pulls 4 plows right up a steep, quarter pitch slant. Other tractors won't do it. They are too heavy. They must pull too much dead weight.

With this outfit you can plow 8 to 12 acres per day. It does the work of 16 horses. Plow carriage can be instantly taken off and engine is then ready for other farm jobs.

WRITE! Write for latest Tractor Book—handsome, interesting, fully illustrated. Shows how and why the Bates All-Steel Tractor in 3 years forged to the front. You will be agreeably surprised at the PRICE too. Book comes by return mail.

BATES TRACTOR COMPANY
117 Bates St., Lansing, Mich.
(2)



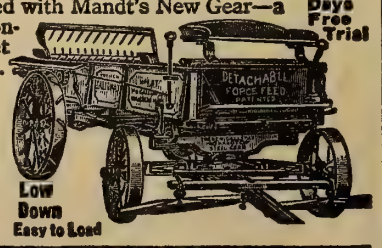
THE BATES ALL-STEEL TRACTOR

YOURS

Yes Sir—5 to 10 $5 bills—*your* saving on a genuine Galloway Spreader. Why pay a big price for a spreader that can't approach a Galloway for quality? I am a manufacturer and can dictate my own prices. That's how I can save you **$25 to $50** and give you a spreader that for quality no dealer on earth can beat—equipped with Mandt's New Gear—a masterpiece of construction. Get my latest offer. **Write me Today**

30 to 90 Days Free Trial

FREE
"A Streak of Gold"
The greatest piece of literature ever written on the value of manure. Send for your copy today. It couldn't be worth more to you if you paid $10 for it. Plain facts written by the great soil experts and thousands of successful farmers. Why not learn absolutely **free** how you can turn your manure pile into **gold dollars?** Send now for my special 1913 proposition and price—it's FREE. Address Wm. Galloway, President.
The Wm. Galloway Co., 109 C I Galloway Sta., Waterloo, Ia.
Remember: We carry stocks at Kansas City, Council Bluffs, St. Paul and Chicago, insuring prompt shipments.



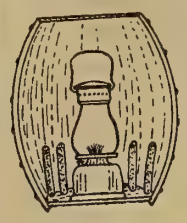
Low Down Easy to Load

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

THAWING DYNAMITE.

One may pick up almost any large daily paper these days and read of an accidential dynamite explosion in which one or more persons were killed and injured, and, strange as it seems to us, many of these accidents were caused from thawing frozen dynamite, in spite of the fact that the papers are full of such happenings. A safe and sure way of thawing frozen dynamite is herewith illustrated. First procure an old empty and dry keg or box of the proper shape and size, place the dynamite around the sides as shown, place a lighted lantern in the box, and cover with a piece of cloth or a sack. The cloth must not be so thick and heavy that the foul air cannot escape, or the light will not burn. One great advantage of the method is, it can be placed far away from buildings, etc., but if carefully handled there is no danger in thawing the explosive in this manner.

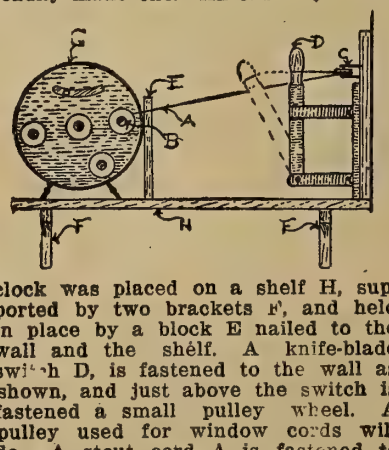


Wagon Box Rack.

The handy box or hay rack herewith illustrated can be made for a small sum and will last for a lifetime. The pipes are one and one-quarter-inch gas or water pipe, galvanized, as are all the fittings. After the bracket D has been made, swing it to wall in iron straps as shown at AA. These turn up at the lower ends, and have holes for receiving the bracket as at CC. Two of the brackets must, of course, be used, and as they can be bolted or fastened with lag screws to the studding, they will, when folded back against the wall, occupy very little space. Any plumber can make these brackets if you have no tools for such work, and the blacksmith can make the straps AA.

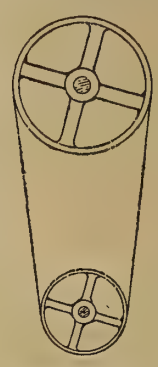
Automatic Lighting Device.

An Illinois boy who has mechanical ideas constructed the automatic lighting device herewith illustrated. The home was lighted with a private electric light plant, in which storage batteries were used to store the surplus electricity, saving same for use when the engine and dynamo were not running. As the device is very simple, anyone with a few tools can readily make one. An ordinary alarm clock was placed on a shelf H, supported by two brackets F, and held in place by a block E nailed to the wall and the shelf. A knife-blade switch D, is fastened to the wall as shown, and just above the switch is fastened a small pulley wheel. A pulley used for window cords will do. A stout cord A is fastened to the winding key of the alarm B, passed around the pulley C and made fast to the switch handle D. The alarm is now wound and set for any hour you wish the lights turned on, the switch being left open as shown by the dotted lines, and your device is ready to work. By connecting the string direct to the switch handle D, in place of passing it over the pulley C, the pull will be just opposite, and will open the switch turning off the lights. As many lights as desired may be connected up and turned on or off with this device, and the lights may, of course, be located either in the house, barn, or some place in the yard.



To Find Speed of Pulley.

Many farmers have during the past few years installed various kinds of machinery operated with some kind of an engine. Much of this machinery has been installed without any previous experience, and in many cases the various shafts or pulleys do not have the proper speed. Possibly the accompanying illustration and this short description will be of some help to those who have had trouble along this line. In the illustration the lower pulley and shaft is supposed to be the main shaft, and the upper pulley and shaft, the countershaft, with the belt connecting them as shown. Now as manufacturers, in all cases, send or will send instructions as to proper speed for various machines sent out by them



THIS PLANTER DOUBLES POTATO — —PROFITS

Reduces planting costs to a minimum. The Eureka opens the furrow, drops seed accurately any distance or depth desired, puts on fertilizer if wanted, covers perfectly and marks next row. Always plants uniform depth. Three sizes, one or two rows.

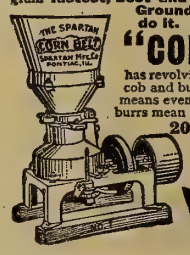
Get a Eureka Mulcher and Seeder

Creates dust mulch, cultivates and weeds, sows and covers grass seed, alfalfa, oats, etc. Prompt shipment from branch house near you. Write for Free Catalog.

EUREKA MOWER CO.
Box 867, Utica, N.Y.

BIGGEST PROFITS

are made by farmers who grind feed. Get the best mill. The Corn Belt grinds **soft** and hard corn—and small grain **fastest, best and cheapest.** No clogging. **Ground burrs with a plow polish do it.** Does not burn the feed. The



"CORN BELT" Mill

has revolving knives that **chop** corn and cob and burrs that **grind.** Vertical feed means even distribution. Lathe-centered burrs mean even grinding. Sent on

20 DAYS FREE TRIAL

Burrs are easily changed in 3 minutes. Send for free book.

Spartan Mfg. Co.,
26 Main St., Pontiac, Illinois

Better Results with Less Power

SUPERIOR DUPLEX MILL

Double grinding rings with saw tooth grooves grind twice as much as any other feed mill of same size with one-third less fuel.

Force feed; never chokes. For Gasoline or Steam Engine. Grinds corn on cobs or in shucks, shell corn, sheaf oats, Kaffir corn, alfalfa, oats, rye, wheat, barley, cotton seed. Coarse or fine. Easy to operate. **Fully guaranteed.** Catalog **FREE.** Write today.

Superior Mfg. & Mill Co.
29 East St., Springfield, O.

Harvey Bolster Springs

prevent damage to eggs, garden truck, fruits, live stock on road to market. Make any wagon a **spring wagon.** Soon save cost—produce brings bigger prices—wagon lasts longer—horses benefited—thousands in use—"my wagon rides like auto" says one. Get a pair at dealers. If not at dealer's write us. Insist on Harvey's. 40 sizes—fit any wagon—sustain any load to 10,000 lbs. Catalog and fistful of proofs free.

HARVEY SPRING CO., 734 17th St., Racine, Wis.

GUARANTEED

It Will Pay You To **Ship Us Your HIDES**

YOU can have a warm, serviceable fur coat made from your cow or horse hide that will wear you for years.

We tan and make them up into soft and pliable coats, robes and rugs, moth and waterproof and guarantee the work. Write us today for our

FREE BOOKLET

It tells you all about hides.

Des Moines Tanning Co.,
Dept. A. Des Moines, Iowa.

EDE TANNING

Never hardens, never rots, never disappoints. It is water proof, moth proof, strong, soft and light. It will remind you of buckskin.

Ede tanning is so good that we let you test it 30 days before paying for it.

Don't send away hides and skins until you know all about Ede Robes and Coats. Write today for large free catalog No. 29, samples of linings and our $1000 guarantee.

EDES ROBE TANNING CO
Originators of Custom Tanning
DUBUQUE, IA., ST. PAUL, MINN.,
OMAHA, NEB., SIOUX FALLS, S. D.

Honest Tanning and a Square Deal

My system of hide insurance makes your hide safe. Cownie's free policy protects your hide against fire, flood, theft, exchange or poor workmanship. A good job guaranteed.

COWNIE

Saves You 50%

Send me your hide and let me make you a handsome, durable coat or robe. My numbering system makes exchange of hides impossible.

Send for Sample Certificate and new catalog free. Contains styles and prices; also full particulars of insurance plan.

COWNIE TANNING CO., 608 Market St., Des Moines, Ia.

"RANGER" BICYCLES

Have *imported roller chains, sprockets and pedals; New Departure Coaster-Brakes and Hubs; Puncture Proof Tires; highest grade equipment* and many advanced features possessed by no other wheels. *Guaranteed for 5 years.*

FACTORY PRICES direct to you are less than others ask for cheap wheels. Other reliable models from $12 up. A few good second-hand machines $3 to $8.

10 DAYS' FREE TRIAL We ship on approval, *freight prepaid*, anywhere in U. S. *without a cent in advance.* DO NOT BUY a bicycle or a pair of tires from *anyone* at *any price* until you get our big new catalog and *special prices* and *a marvelous new offer.* A postal brings everything. *Write it now.*

TIRES Coaster-Brake Rear Wheels, lamps, parts and sundries *half usual prices.* Rider Agents everywhere are coining money selling our bicycles, tires and sundries. Write today.

MEAD CYCLE CO. DEPT. T184 CHICAGO

Get our new **FREE** catalog

FREE Our big style sheet, 18x24, showing 20 different styles for Men, Women and Children

HIDES Tanned by Experts

and made into a handsome fur robe or coat for man, woman or child according to any style you may choose from our **New Style Sheet** which is sent free. We are the first to offer a style sheet of definite styles in furs the same as we are first in every step of tanning. World's Best Tanners.

Globe Tanning & Mfg. Co.,
220 E. 1st St. Des Moines, Ia.

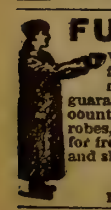
DITTO'S Triple-Geared Ball-Bearing Double-Cut **Feed Grinder**

Is triple-geared so both grinding rings revolve in opposition to each other—giving it a Double Cut and doubling its capacity.

An Honest Mill Sold In An Honest Way

Try it. No money down. I trust you. Keep it if satisfied, if not, return it at my expense. I take all the risk. Write for my free catalog today.

G. M. DITTO, Box 12 JOLIET, ILL.
Also Power Grinders, Gasoline Engines, Scales, Farm Derricks.



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We tan the hide and make your coat for only $12.50. Complete coat (we furnish hide), $18.00. A square deal, all work guaranteed. We are pioneer tanners of this country of cattle and horse hides for coats, robes, rugs, harness, lace, leather, etc. Write for free booklet of information on handling and shipping hides; also price list.

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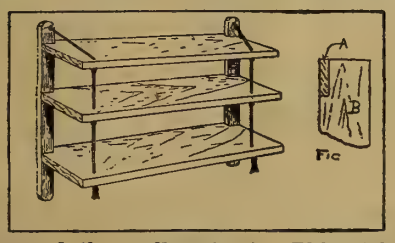
the next thing in order will be to find the speed of our main shaft. Every engine has a speed indicator sent out with it. If not, one can be purchased at any hardware store for twenty-five to fifty cents. To find the speed of the countershaft, if the speed of the main shaft has been determined, we multiply the revolutions of the main shaft by the diameter in inches of the pulley, and divide by the diameter in inches of the pulley on the countershaft. This will give the number of revolutions of the countershaft. To find the size of a pulley required for countershaft, when the revolutions of the pulley on main shaft are known, multiply the diameter in inches, of the driving pulley by the revolutions of the main shaft, and divide by the speed required of your pulley, and the answer will give the size in inches of the pulley required. To find the size of a pulley for a main shaft, if the speed of the shafts and the diameter of the pulley on the countershafts are known, multiply the diameter in inches of the pulley by the speed of the countershaft and divide by the revolutions of the main shaft. The answer will be the diameter in inches of pulley required. Any or all of the above calculations can be made by anyone who will give the matter a few moments' thought, and as it is a well-known fact that prower-driven machinery will not give best results if not properly speeded, it will pay you to examine the pulleys on that machine that does not seem to work just right.

Recharging Batteries.

Many people do not know that an exhausted battery can be temporarily recharged and made to again work for a short time with water alone. As shown in the illustration take a pocketknife, an old file, or anything handy with which you can bore two holes on opposite sides of the carbon post, and make a hole about an inch deep. Fill with water two or three times and wait five minutes, and you can run your auto or gas engine for quite awhile. The position of the holes are shown at AA. This method will often enable one to reach home with batteries that otherwise could not be used when exhausted.

Inexpensive Book Shelf.

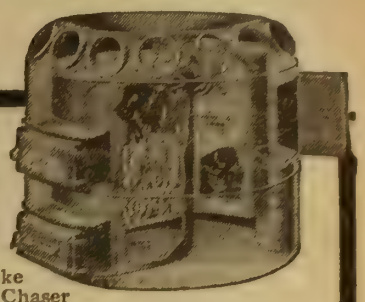
In these days of inexpensive papers, magazines, farm journals, etc., the problem of keeping them handy, and in order, is a vexing one in many homes. One way to accomplish the desired end is to build a set of shelves as herewith illustrated. Almost any woman or boy can build these shelves, and when properly finished they are ornamental as well as useful. To make a set of the shelves, secure as many shelves as you desire, have them about eight inches wide, one inch thick, and as long as wanted. About three feet, however, will be the right length. Shape the ends as shown at B so they will fit



Fig

around the wall strip A. This strip should be four inches wide and one inch thick. The ends may be square or shaped to suit your fancy. Bore holes in the front edges for a small cotton rope as illustrated. Tie a knot in one end and ravel the rope out to form a tassel. Now tie knots under each shelf as shown, running the rope through the shelf after each knot. Finally pass the rope through the top end of the wall strips and fasten with nails, or cut the hole out to receive the knot, and nail or screw the completed shelf to the wall as shown. The wood work may be stained or dyed with any of the many wood stains now on the market, and the result will be a neat place for the papers, schoolbooks, etc.

This Is the One and Only Furnace Manufactured Today That Is Absolutely Guaranteed To Heat Every Room To 70 Degrees Even In the Coldest Weather



I have a very interesting book about this furnace, Mr. Coal Buyer, and I would like to send it to *you* right away, and show you how you can actually save one-third on your fuel bill this winter.

I would like to show you just exactly what I have shown thousands of other dissatisfied land owners and home-owners. I would like to absolutely *prove* to you that this Winter Chaser furnace of mine is the most economical and even heater manufactured today.

I have been in the furnace manufacturing business now for thirty years and have something here to offer you that is really the best thing your money can buy in the heating line. There are many reasons why my

Campbell's Guaranteed Winter Chaser Furnace

is the biggest saver of coal bills of any heater in the world. The large firepot which permits slow combustion, is one of the biggest points. The patent heat retainer is another—the fact that our furnace is gas tight and constructed of the very heavy steel plate is another point—the big air chamber is another.

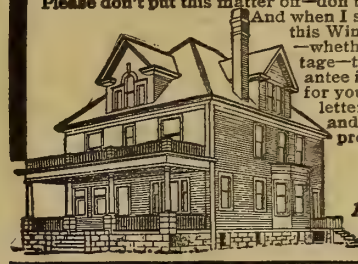
These points and many others that I want to tell you about personally, make my Winter Chaser the biggest saver of dollars and cents on the coal bills that has ever been manufactured, and put within the reach of every man's pocketbook.

But economy is not the only point. My Winter Chaser is so constructed of 3-16-inch steel plate that it's the most durable and lasting furnace on the market—many of them have been in homes for more than 25 years and are today giving just as perfect heating as they did when they were first installed!

My Winter Chaser cannot possibly freeze and burst. It burns *anything*—it's the quickest heating furnace on the market today—its proper heating arrangement of pipes is just another item that cuts down on Mr. Coal Man's profit—you have pure, sweet, clean, moist air in every room in the house twenty-four hours of every day—you have warm floors with every register in the right place, and all in all, the most healthful kind of heat that can be produced.

Just Write Me Today for My Free Book--Learn How to Save One-Third of Your Coal Bill!

Please don't put this matter off—don't overlook such a guaranteed offer as this one of mine. And when I say *guaranteed* I mean every word of it. I guarantee this Winter Chaser of mine to heat every room in your house—whether it be a twelve room mansion, or a three room cottage—to 70 degrees in even the most severe weather. I guarantee it to produce the cleanest, most perfectly moist heat for you at the *least possible cost*. Just drop me a postal or letter today asking me for this free book "Twice a Day," and I will send it to you by return mail. It will be a most profitable move on your part. Address me personally,



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Campbell Heating Company
1213 Walnut Street *Des Moines, Iowa*

Costs Less Per Year
That's the Record of Great Western Spreaders for the Past 12 Years
Less Expense—Less Labor—Less Repairs—Longer Service

The cost of a manure spreader must be figured by the *years* of service it gives you and the *kind* of service you get out of it. The first cost of a **Great Western** may be a little more than the price of some shoddy, poorly-made, heavy-draft spreader, but it costs more to make a **Great Western**, and that extra cost is made up to you many times in the kind and length of service it gives. Based on the *cost per year*, the **Great Western** is the cheapest spreader you can buy. The extra dollars you pay at the start are paid for *quality*, and you'll get them all back, with many more.

Great Western—Low Down

embraces all the great features that have kept it ahead of all others for over twelve years. More than 100,000 farmers testify to the superiority of this machine. There's but one opinion regarding this spreader, and that is that it is the *one perfect* spreader.

Features that Count

Wheels under the load—roller bearings—rear wheels track with the front—lightest draft—no neckweight—simplest direct drive—no hidden parts, no enclosed gears—individual rollers—strong, rigid oak beater rails—these are some of the points that put the **Great Western** in first place years ago, and have *held* it there ever since.

Trussed Steel Frame

The Great Western frame is built for great strength—of best trussed steel, firmly braced. All weight of load and beater, and force of operation, rests on 4-inch steel slills.

Simplest Drive Possible

Nothing to get out of order. No enclosed gears. Simple shifting device—no parts in motion when driving to or from field.

Fewest parts on any spreader. Simplicity, strength, service and durability are its crowning features. *Write today* for Free Spreader Book.

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GUARANTEED AUTO-SPARKER
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Take in what you've been *paying out* for corn shelling—and *much more*—by shelling your own and your neighbor's corn. Get 1 to 3 cents more per bushel for your corn by shelling it *cleaner* and grading it one or two grades higher. Shell your corn any day you have the time—days when you have no other pressing work.

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will soon pay for itself and return you handsome yearly profits. *Makes quick work*, shells over 1,000 bushels per hour. *Shells cleaner*, because it has the most advanced type of suction fan. Will stand many years of the hardest use. Built on the cone cylinder type—has long ribs, chilled to stand hardest wear. The cob carrier swings to right or left or out ahead, throwing cobs clear of the machine and wagons. Let us prove to you how you can make big money this year, and also get higher prices for your own corn by shelling it *clean*.

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Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Road Rollers, Wagons and Vehicles.

Seed 10 Acres an Hour With This Seeder—It's 1/2 Cheaper

Than Best 11-ft. Broadcast Seeder Made

DON'T make a *poor* investment by buying an 11-ft. Broadcast Seeder when you can get the Peoria *Double* Seeder for just *one-half* the money, and you can actually do *THREE TIMES* as much work in the same length of time. Conditions of weather make no difference. The "Peoria" works just as well—wind or no wind. The

Peoria Double Seeder

is absolutely guaranteed to do better work than any 11-ft Broadcast Seeder ever made. It sows every variety of small grain and grass seed, uniformly distributing it. No thin or thick streaks are left behind. The secret of the Peoria Double Seeder is in the *helical* gear which runs with less noise than most friction drive seeders. It will last longer out of doors than any 11-ft. seeder stored. Feed is positive, no clogging, no valves or inside arrangement to bother—casts oats over twelve rows—one hundred acres can be sown in ten hours. With seeder you buy we give you

A Perfect Force Feed Grass Seed Attachment Absolutely FREE

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Peoria Drill & Seeder Co.

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Why don't you take advantage of our **Special Service Department? All Advice Free to You.** We send you **free** the best scientific methods of preparing your soil for **biggest profits;** show you how to prune your trees, give you best methods of Stark cultivation; how to spray the Stark way. **We make your orchard a winner and a big money maker.** Write us at once for Stark Year Book, complete fruit tree literature and statistics. **Write today.**

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HORTICULTURE

NORTHERN APPLES.

To the Editor of The Homestead:

One of the best of the old apple varieties which were planted forty and fifty years ago in northern Iowa was the St. Lawrence. This is a fall apple, which is remarkable for hardiness of tree. There are many of the old trees still left and in good bearing condition, and in all cases it is noticeable that those who have the trees speak well of them.

The Plumb's Cider is another variety once very popular, which has the ability of retaining its old friends. When compared with newer candidates for favor they claim that it is hardier in tree than the Wealthy and that the fruit is a better keeper. Under the same conditions it will keep a month longer.

The Red Astrachan, for the north, was a success in some favored localities. It stood in the northeast, upon the timber lands, but farther west upon the open prairies it failed, through tenderness of tree. But those who admired it as an early summer apple were a numerous company and they will plant the trees even yet. Farther west, upon the cold open prairies, the Whitney No. 20 filled its place so well that people are very well satisfied with it. While not quite as good as the Astrachan in quality, it is about as large, and only a little later in season. The Whitney still retains its popularity, and in some localities it has been a money maker.

A great Dakota orchardist up at Hurley has had them to ship West by the hundred bushel, and found a very ready sale at remunerative prices, because there was no better fruit to compete. It is very doubtful if we ever outgrow the need of the Whitney, up along the danger line of apple culture. The Duchess has long been, and continues to be, the summer cooking apple for the North. Its season is the months of July and August.

Very hardy and prolific in tree, and of good size it is the one most valuable apple of its season. The city markets demand great quantities of this variety, and probably few others make so much money for the growers. It should only be planted in large orchards, where it can be handled commercially.

The Wealthy follows the Duchess in season, covering the next two months in the markets. Where grown far enough north it may continue in season through November. This is the most popular fall apple of the present day. But it is true of this, as of the Duchess, that there is a vast waste of fruit through lack of facilities for handling. A few trees are sufficient for the farm orchard, and the man who would make it a business should plant at least ten acres to secure crop enough for car lot shipments.

The Fall Orange is an apple which has been eclipsed by the newer varities. It was very popular forty years ago, and those who know it well still pine for it. It is not quite hardy enough in tree for all locations, but upon timber lands and the right slopes it will pay for care. It is well worth planting.

The Longfield, because of its abundant fruitfulness, is a September apple which holds its friends. It is a good cooker and if it did not have to compete with the Wealthy it would be largely planted. Still it is a good thing to plant a few of them, for in some years it will give a fair crop when the Wealthy fails. You know the old adage about having two strings to your bow.

As a good-sized cooking apple, iron clad in hardiness of tree, the Hibernal stands without a peer, but as grown in northern Iowa it is only a September apple. A hundred miles farther north it will last another month, and up in Manitoba, at its northern limit, it will keep with right care until spring. This variety is regarded and with good reason, as the one most valuable variety introduced during the last fifty years for the far North.

The N. W. Greening, that magnificent Wisconsin seedling, has great value. It is a little capricious in its keeping quality—some specimens will keep perfectly until spring; others upon the same tree will rot in October. That at least is the experience in latitude 42 and 43. It does better farther north. Many other varieties might be named—some of them having almost secured recognition as valuable, but they have such superior merits that the rest are negligible.

H.

A FAMOUS ORCHARD.

Forty years ago one of the great Iowa orchards was that belonging to Dudly W. Adams, Waukon, Allamakee county, Iowa. Mr. Adams was a very prominent man of his day, being secretary of the Iowa State Horticultural Society, and master of the state Grange. He was a man of ability, and of property. He removed to Florida some thirty years ago and died there about the beginning of this century.

But the evidences of his life and his influence are still thick at Waukon. In the suburbs of the city, to the southwest, is the farm where he had

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Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

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do all of the sowing, hoeing, cultivating, weeding, furrowing, ridging, etc., in any garden, with better results, far less work and some real pleasure for the operator. 38 or more combinations at $2.50 to $12.00. Ask your dealer about them and write us for new booklet, "Gardening with Modern Tools" also copy of our paper "Iron Age Farm and Garden News"—both are free.

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20% BIGGER GRAIN PROFITS

Grade Your Grain! You Will Coin Dollars!

Have you any realization of what grain grading and cleaning means in doubling up profits?. Have you heard about our great offer—a $2.50 coupon? Look into this matter NOW! Plenty of good farmers haven't yet found out how much they're losing by failure to grade and clean wheat, oats, flax, barley, rye, timothy and clover. Yet thousands of their brother farmers are today piling up big profits using the New Superior Grain Grader to get the best seed—*which means bumper crops*, and to clean the grain thoroughly—*which means no dockage at the elevator.*

The New Superior Grain Grader fairly *coins dollars* for you. It gives you fine seed which would cost you many times as much bought from your neighbor or the seed man. It removes all foul matter. As an instance, it separates all the oats from the wheat and grades it for seed in one operation.

You save the *screenings for feed* instead of *giving it away* to the elevator man and *then buying it back.*

And the elevator man must pay the very highest prices for the finely graded clean grain you deliver to him.

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$2.50 Waiting for You at Your Dealer's—

Yes, *better than $2.50 cold cash.* The coupon below, presented at your dealer's will save $2.50 in buying a New Superior Grain Grader—but that's only the start. Your profits will run up into the hundreds or even thousands every year, by the use of this machine.

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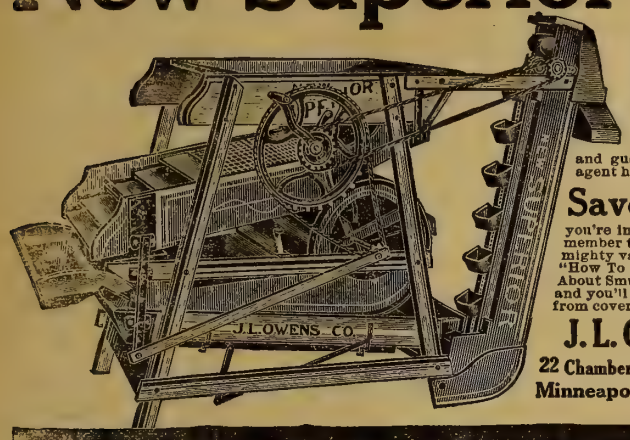

Farmers who *know* say the New Superior always has been and is today the standard grain grader of the country. See it at your dealer's Note the 12 sieves and screens, the big capacity hopper, the large drive wheel, the sheet steel drum, the all hardwood frame, the double bagger. See how easily it turns. Your 12 year old boy can run it. Sold through reliable dealers to give you best service and guaranteed by him and us. And if he is our authorized agent he'll pay you $2.50 for the coupon—so

Save Coupon shown here. Cut it out this minute and take it to town the next time you're in. Ask your dealer about the offer. Remember the free books on grain profits that are mighty valuable—we'll send them for a postal. "How To Increase Your Profits" and "Facts About Smut" are the names of these books and you'll say they're full of dollar facts from cover to cover. Write! Address

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The J. L. Owens Co., Minneapolis, Minn., hereby agrees to take this coupon as $2.50 in part cash payment on either the Owens Grain Grader and Cleaner or the Owens Smut Cleaner. To take advantage of this coupon it is necessary for the buyer to sign his name and address below and present this coupon to any authorized Owens dealer. In case there is no Owens dealer in the locality mail this coupon to our office in Minneapolis and we will honor it and make arrangements to ship you a machine direct.

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Buyer's Address ..... (Rural Route or Street No.)

City..... State.....

To Our Agents Please accept this coupon as $2.50 toward the payment of an Owens Grain Grader and Cleaner, or an Owens Smut Cleaner in accordance with our special offer. We will credit this coupon to your account or send you cash for it as you prefer, as offered under our new selling plan, on receipt of it properly filled out with buyer's name and address above and your name and address below.

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Direct to you from the Hyde Farm, with all the middlemen's profits cut out. No old seed or elevator stock, but all fresh, strong and of guaranteed germination.

REID'S YELLOW DENT
BOONE COUNTY WHITE

our leading varieties of corn. We also have fancy grades of

Clovers, Timothy, Alfalfa, Cow Peas, Soy Beans, Rape and Grass Seed.

These are exceptionally good and guaranteed by us.

FREE SAMPLES Write today for our FREE BOOK, telling about "Hyde Farm" Home Grown Seeds, also free samples.

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TREES AND SEEDS THAT GROW
AT IT OVER 28 YEARS

For twenty-seven years I've been selling "Seeds and Plants that Grow." I've been selling them direct—at rock bottom prices—no agents' commissions attached. My catalog has always been my only salesman. My

Free 1913 Nursery and Seed Book

is now ready. Send for it. It's the result of 27 years' experience. Lists all kinds of trees and plants, farm, garden and flower seeds. Quotes lowest prices, no agents' commission to pay. Here are a few of the many bargains. Apples 8c each; Cherry 14c each; Plum 15c each; Catalpa Speciosa seedlings 8-12 inch $1.75 per 1000.

SPECIAL 10c Offer 5c pkt. Mixed Colors Petunias; 10c pkt. Ex. Fine Mixed Pansies; 10c pkt. Giant Single Pinks; 5c pkt. Finest Mixed Poppies. 30c worth for 10c, postpaid.

Remember my seeds are all Nebraska Standard. I pay freight on $10.00 tree orders. Send for catalog, see my prices. A postal brings it.

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Yields 140 Bu. to the Acre
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A. A. BERRY SEED CO., Box 703 CLARINDA, IOWA

his 100-acre orchard, and in the city library are books donated by his heirs. Among them is a complete set of the bound war volumes of Harper's Weekly. These books make very interesting historical reading to the student of civil war days.

But of his orchard, planted in hope and tended with faithful care, there is but a remnant left. There are about 100 trees, now some fifty years old, scattered over a great pasture lot. The land is now in timothy and evidently has been kept in this state for some years. The trees are gnarly, many of them show dead branches and other evidences of decay, but as a whole it is remarkable how much vitality remains. There was but little fruit at the time of my visit last September and the specimens to be found were inferior. But they seemed to be of the varieties recommended for the North fifty years ago—Perry Russett, Rawl's Janett, Plumb's Cider and Talman Sweet, Sops of Wine and Willow Twig.

The remarkable fact is that any of the trees have survived the long years of neglect since the orchard has passed into careless hands. Those who are familiar with the rewards of good care for trees—proper surgery and feeding—will concede at once the probability of paying crops from that orchard if it had been rightly treated.

Here we find vitality enough to endure the most killing neglect and still survive. The fact should and will raise the question in thoughtful minds, are we wise in sending all those old varieties to the scrap heap? The Plumb's Cider is a good-sized late fall and early winter sort, not as good in color as the Wealthy, but in other respects its equal. Talman Sweet is so good that it is to this day an apple that sells well and the market is never over supplied. The same can be said of the Perry Russett.

Apple growers ought to think of these facts. We run so greedily after every new thing and the imagination exaggerates the good qualities which we desire and expect them to have, that we forget our old friends. Many times we find ourselves grabbing at some horticultural shadow and dropping the valuable substance which we hold in hand. The survivors of that famous old Waukon orchard of D. A. Adams are saying something to us which we ought to hear and heed. They are loudly shouting, "Our survival through fifty years of neglect should prove to you that we are true friends, worthy a place in your orchards, and able to reward your intelligent care."

RED AND PURPLE RASPBERRIES.

There is this essential difference between the two: the purple or "dusty" berries grow new plants from the tips of the canes, precisely like the blacks, while the red raspberries proper make new plants by throwing up shoots from the roots.

The purple berries exemplify the law that the larger the berries and the more prolific yield the poorer the quality. The fruit is more acid than the true red berries, and its flavor less pleasing to the palate. In markets where there is an abundant supply of the reds, and buyers are educated to the difference, the purples are always the second choice. But in other places buyers are greedy for the purple berries, choosing them in preference to the blacks. They are superior to the blacks in this respect: they are more juicy and less seedy. The seeds are smaller and less prominent.

The purple berries are far stronger growers than any of the red varieties, and under good culture they will often make hedge rows, from six to eight feet tall. And the canes at the surface will reach to the size of broomsticks. The purple berries are a cross between the red and the black berries and have retained all the vitality of the strongest-growing black varieties. It is less work to grow the purple berries than to grow the reds, for the reason that the persistent sprouting of the reds makes constant culture necessary to keep them down. It is necessary to do this, for if they are permitted to grow at will you will have a thicket of bushes, but no fruit.

As usually grown the reds are allowed to form a row eight inches to one foot wide. This permits weeding, so that cleanliness may be maintained. The plant of the better, more painstaking growers is to cultivate both ways, leaving the plants in hills about one foot square. This is the ideal way, and while it involves more work it produces more fruit and fruit of a better quality than the hedge system.

Because of the lack of sprouting

Great Crops of
Strawberries
and How to Grow Them

IS a beautifully illustrated book of expert information written by America's most successful strawberry grower. It gives the famous Kellogg sure-crop method and explains just how Pedigree Plants are grown on the great Kellogg plant farms in Michigan, Oregon and Idaho. Any man, woman, boy or girl, who reads this book can grow big crops and get big prices. Strawberries yield more dollars per acre than any other crop. Our book tells the whole story. It's FREE to you.

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Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

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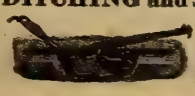
DITCHING and SUB-SOIL PLOW



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Take Your Choice

between a Rock Island "C.T.X." Universal and the commonplace kind of plow. They cost about the same. But *remember*, the "C.T.X." Universal means "fat" crops, while the common plow is apt to mean "*skinny*" crops.

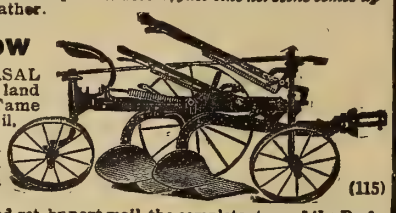
Beware of Air Spaces

Those innocent-looking air spaces left between topsoil and subsoil when plowing have been costing the American farmer MORE THAN ALL OBNOXIOUS WEEDS, BUGS, PESTS, SCALES AND PARASITES COMBINED. Air spaces completely *cut off* the water supply from below and cause crops to start withering and drying up the minute a hot, dry spell comes.

Get a plow that *doesn't LEAVE any air spaces*—the Rock Island "C.T.X." Universal.

Note the peculiar, corkscrew shape of this plow *bottom*. (Picture A.) The arrow shows how dirt travels—backward and *DOWNWARD*, not backward and UPWARD as in the ordinary plow. (Picture B.) The Rock Island Universal doesn't spill any dirt into the furrow; turns the slice clear over, without crimping. Lays it flat and smooth, at the same time pulverizing it thoroughly and burying all trash. Topsoil lies right against subsoil—doesn't leave fatal air spaces. Water comes up from below, *just like kerosene comes up your lamp wick*. It feeds the crop in dry weather.

A Real UNIVERSAL Plow



And don't forget, *this plow* is a UNIVERSAL plow—does perfect work in *any* soil on any land that's plowable. It walks right through Tame Sod, Heavy Clay, Sandy Loam, Mixed Soil, Stubble Fields, Old Cornfields, etc.

No wonder the Rock Island "C.T.X." Universal has become the sensation of the farming world. *Yet it costs practically no more than the average plow!*

WRITE! Send your name on a postal today and get, by next mail, the complete story of the Rock Island "C.T.X." Universal. All about how it's made; pictures of its different parts, etc. We will also send you the name of your home merchant who sells Rock Island Implements, so you can go see this plow and judge it for yourself. Just write these words on your postal, Am interested in plows. Then sign your name and address and send the card to

Rock Island Plow Co.
188 Second Avenue, Rock Island, Ill.

Rock Island (C.T.X.) Universal Plow

Crop Maker Roller Bearing—Fanning Mill

The easiest-running fanning mill a man ever turned—therefore the one for complete service and biggest results.

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The Crop Maker runs "like oil" because it has roller bearings. It cleans, separates and grades grains and seeds of all kinds—turns out perfect seed for planting—insures bigger crops and larger profits. You will make many times its cost in a single season. This machine goes *to you from us*—one small profit added to the actual expense of making. Be sure to write at once for the Free Book, detailed description, price and complete offer. Please write *today*.

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ALFALFA SEED, $6. Timothy and Clover mixed, $4.50. Will ship c. o. d. Farms for sale and rent on crop payments. J. Mulhall, Sioux City, Ia.

Great New Everbearing Macatawa Blackberry

This year you should grow berries. It's the thing that pays in commercial fields and in gardens. And to make your work count for the most, grow the heaviest yielders, the biggest, meatiest, best-flavored berries.

Macatawa Blackberry has all these qualities, and more. It's a brand-new sort, a cross of Eldorado Blackberry and true Giant Himalaya Berry. The berries are extraordinarily large—3½ inches around one way, by 3½ inches the other. They begin to ripen July 1; the big pickings come just after July 1, and you get ripe berries until frost.

Berries are sweet even when green, free from core and seeds, meaty and altogether delicious, wonderfully good to look at, and just as good to handle, to ship and to eat—high-priced and profitable.

Plants Begin Bearing the First Year

and yield immense crops afterwards. They are absolutely hardy in 40 degrees below zero. Macatawa plants $1 each, or 6 for $5. Only 6 to one person.

Send today for the 1913 Berrydale Berry Book. Full of valuable Berry information. Contains true descriptions of the Macatawa Blackberry, of Himalaya Berry and many other profitable berries you ought to grow in your garden or fields. Let me have a card for the book today.

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We send *free* with each 50c garden seed order one *New Lincoln Rambler* Rosebush; two with each $1 garden seed order; three with a $1.50 order; four with a $2 order. Four splendid varieties of profuse bloomers: Crimson, Yellow changing to a Pure White, Yellowish Perpetual Blooming, Non-Fading Deep Crimson. Very thrifty—bloom first season—stand severe cold.

Take 50c garden seed orders from your friends and have several rose bushes for yourself at a cost little more than the value of one, not counting the seeds you get. New illustrated catalogue is ready. *Write for it today* so you can make your seed selection and get your Rose order in *early*.

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Wm. Stahl Sprayer Co., Box 932 Quincy, Ill.

tendency the culture of the purple berries is easier than that of the reds. This difference is so pronounced that the purples may be grown and sold at a profit, at five cents per box less price than the reds command. But as a rule there need not be that difference in price; in fact, there is not usually any difference, and this makes the purples more profitable for the grower, but, as intimated above, it is a matter decided by the condition of the market.

The three most vigorous growers of the purple berries are no doubt the Columbian, the Cardinal and the Haymaker. These all have this helpful habit, which is worth considering by the grower. They may winter kill half or two-thirds of the way to the ground, and yet they will send out branches and fruit heavily in spite of the killing.

The reds are as a rule more tender than the purples and less likely to yield a full crop, yet the difference is not so great that the berry grower need hesitate where his special market requires the red berry. There are many varieties of the reds, and some growers choose one kind, and some another. There is no doubt such a thing as adaptability to certain soils. It is well for one who proposes to plant largely to ascertain the experience of his neighbors before he decides what variety or varieties to plant. Among those adapted to a wide range of soils, and consequently the favorites of the large growers, are the Cuthbert, the Miller, the Louden. There are others almost as good, and preferred in some places to those named.

If one is growing a few of the purples and desires more plants he must take pains to tip them in August; that is, he must cover up the tips of the new canes when they come to the ground. Under ordinary conditions of culture he will get a few plants, but not enough to help much. You will get ten times as many if you put them down.

Among the reds you can get an abundance of new plants from the suckers. But beware of this in planting. Choose only the largest and strongest plants. Half of the weak shoots will fail to grow, or they will be so low in vitality that it will take them two or three years to make strong plants. And if you are to make a success of your venture you must avoid misses in your rows. More failures in making a start result from this cause than from any other. The majority of our smaller towns are poorly supplied with red raspberries, and they retail readily at twenty cents per box. Needless to say it is a paying crop at that rate.

THE FARMER'S TRUCK PATCH.

To the Editor of The Homestead:

The one who goes into trucking for a business may sometimes fail in these days. In the first place he may lack a plentiful supply of fertilizing material of the right sort; his land may not be early enough to let him in for the best prices; he may not be located where the markets are wide enough to take all such produce at paying prices, or at any price; and again he may not be a good salesman.

But the farmer who runs a small truck patch in connection with his other farm operations, can hardly lose out. The grocery and produce men in his nearest home town who have dealt with him for many years will always favor him in their buying, since he is always a heavy customer. If his farm is stocked as it should be he will have a plentiful supply of home-made manure to work with. On a farm of considerable size there is usually a diversity of soil that will enable him to pick and choose—the quick, warm soils for the early stuff, and the heavier, stronger soils for the later products. He can grow only such truck crops as can be fed out on the farm to good advantage when the market is too dull for selling. He can hardly play a loser provided he uses fair judgment in the selection of his products.

The farmer will dabble only in those crops in the truck line that can be handled with ordinary farm tools without too much fine hand labor that is not to be spared from the regular farm work. Potatoes, both very early and late; early and late cabbages; beets, bagas and such other root crops

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If you are interested in an Evergreen Wind-break, by all means send for my special 1913 evergreen book, which will show you how you can move your home 300 miles further south climatically, how you can save one-half of your fuel and feed bill by protecting your house, barn, and feed lots with a wind-break of Gilbertson's Famous Evergreens.

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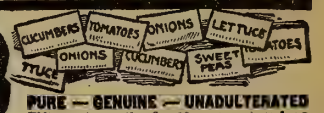
The secret of my famous Evergreens is in their thoroughly developed, fibrous root system, this is brought about by scientific and thorough root pruning, and transplanting, that is why my evergreens will live when transplanted into your windbreak row when all others fail. I have more successful Evergreen groves to my credit today than all the other nurseries combined.

Send Me Your Farm Plans.

Send me a rough sketch, showing the location of your house, barn, feed lots, etc., and I will help you plan your windbreak the proper distance from your buildings, and figure out exactly how many trees it will require. My Free Evergreen Book will tell you a story of 500 miles of satisfied customers. Remember it is free.

A. O. Gilbertson,
10 Main St. St. Ansgar Iowa

FREE SEEDS



PURE — GENUINE — UNADULTERATED

Fifty cents worth—five 10-cent packets **free**—of germination-tested seeds, true to name, sure to grow. **Just send 10 cents to cover cost of packing and mailing** and I will send you this famous collection: **Champion Pickle Cucumbers, Matchless Tomatoes, Prizehead Lettuce, Southport White Globe Onions, Large G. B. Mixed Sweet Peas,** in a large Coupon Envelope, returnable as 25c in cash on an order of $1 or more.

Test at our expense, prove you make more money growing these seeds. "Galloway" always means "bargain" and quality.

NEW, DIFFERENT ORIGINAL SEED BOOK

Showing largest selection pure, genuine, unadulterated garden, flower and field seeds. Contains field articles by Prof. M. L. Bowman. This book is **free**—send **now.**

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How to Plant the Seed

Olds' Silver King Corn (Wisconsin No. 7)

Best White Dent for southern Wis., northern Ill., Iowa and similar latitudes. Average yield 3 years in Wis., whole state, 57 bush. per acre. Average all other varieties 33 bush. Yield at Wis. Ex. Station 98 bush. Sold on the ear.

Olds' 1913 Seed Book tells all about this and other varieties corn, field and garden seeds. Write today. *Field Seed Collection Free.*

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SALZER'S

Bonanza Assortment of Vegetable Seeds 16c

Get this for your kitchen garden. For 16c postpaid. Worth 35c.

Sure to please. 1 package each:

Cabbage	Carrot	Cucumber
Lettuce	Onion	Radish

Above collection and six big packages of choice flower seeds 25c
12 packages in all.

or send 30c and we add the wonderful New Earliest Red Riding Hood Tomato—alone sells at 15c. Catalog and Premium List FREE.

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FRUIT TREES
Quality and Quantity

In buying fruit trees you ought to know the blood that is in them.

We propagate our stock from known trees, selected because of their superior fruit and productiveness. Our trees bear young and produce big regular crops of fancy fruit, because they are bred from parents with a record for both quantity and quality. Observe orchards of ordinary trees, half of them are barren, or producing poor quality. You can save three to four years, and have every tree a producer of fancy fruit, if you plant our pedigreed fruit trees.

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"Pedigreed Horticulture," our new book, telling of the way we grow pedigreed trees, and why they are the only kind to plant. Write if you are interested in raising better fruit and more of it in half the time.

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More Corn Profit

That's what farmers are making by testing their seed corn. Instead of 40 bu. they are raising 75 bu. to the acre. You can do the same. The secret is to test corn with

Holden's Ideal Corn Tester
The Most Perfect Tester Made.

It's the surest, quickest and best way to sort out good seed. Good seed means big crops, larger profit. Holden's tester tests accurately. Easy to operate. Built of steel. Sells at a price which every farmer can afford.

Valuable Corn Book Free
Write for complete circular and price of tester. Get corn book Free. Address
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Each of the same number of days from seed but started at different intervals of the MOON'S INFLUENCE.

I want to send every farmer or gardener a FREE COPY of the interesting booklet SCIENCE AND AGRICULTURE. Don't miss reading this instructive booklet on the MOON'S INFLUENCE over plantsgrowth. Send your name now and you will be sure of a copy of a limited edition.

1000 PER ACRE from 4 vines TOMATOS

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Thousands of farmers have not been able to get a clover "catch" in the last few years. They have wondered why. Our book tells you. It is full of $cash money$ information. Tells you how to put in the necessary bacteria that your soil lacks on account of continual cropping and how the soil is inoculated. This process provides the necessary bacteria that draw the nitrogen that you lack, from the air. Send for this book. Why not start a soil enriching campaign on your farm? Clover wonderfully enriches the soil. We can help you to get a fine stand of Clover—tell you how to meet your particular soil conditions No cost or obligation on your part. We spend fortunes to tell farmers about "Nitragin" inoculation. Our book "Clover and How to Grow It" is free to you though the information it contains is worth hundreds of dollars to farmers. Get the big $cash money$ crops—make your oat and corn land yield double crops. Send for this new, original free book now. Send 10 cents in stamps to cover postage and handling.

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MORE POTATOES PER ACRE

Think of finding one to eleven $5 bills in the furrow, on every acre you plant. It's been done many times. Plant the spaces you skip, sell the potatoes, and you've got the money. No extra land, no extra work. It costs no more to prepare ground, fertilize cultivate, spray and dig a perfect stand

IRON AGE (Improved Robbins) Potato Planter

This machine soon pays for itself and yet puts real money into your pocket. One seed piece in every space and one only. Uniform spacing. No injury to seed. Ask your dealer to show it and write us for free booklet, "100 per cent Potato Planting." We make full line Potato machines, Garden Tools, Sprayers, etc.

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A CORN TESTER
FOR $1.00

Guaranteed to test 52 ears, at one time, in four days. Test your seed corn; do it now. Write for circular.

Corn Tester Cowles, Inventor
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STRAND'S 4000 VARIETIES
HARDY NORTHERN
GROWN TREES AND PLANTS,

They grow and please. Priced at ONE-HALF what agents ask. Send for a copy of our free catalogue today.

STRAND'S NURSERY, Box 80
TAYLORS FALLS, MINN.

that are good to feed out on the farm if the market is dull, will be among his leaders. He is absolutely safe in the production of these in quite large quantities, for he has a farm factory that will work them all up to advantage, when the market does not offer him what such stuff is worth. A good warm piece of soil can be found on most farms for the extra early potato, and there is sure to be good money for the first early potatoes.

The tomato and the early head lettuce are two good crops, but require a little special outfit in the way of hotbed and cold frame for the starting of the plants in early spring.

There is nothing really difficult in this, and a good hotbed should be found on every farm in any case, as it means better living and more wholesome diet for the farmer's family. It also means an education in the finer arts of soil culture and intensive farming that every farm boy should learn, for undoubtedly the time is rapidly approaching when more intensive methods must be practiced on the land.

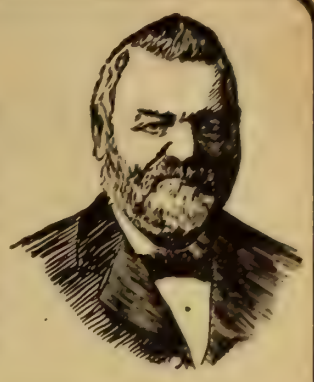
A hotbed sixteen feet long and of a width to suit the length of regular hotbed sashes, which are usually six feet long, will produce enough plants to run a good-sized truck patch. The back wall of the bed should be three and one-half feet high; the front wall a foot lower to give good slope to the sash, and allow them to slide down for ventilation without striking the ground in front of the bed. Set four posts on each side. Commence boarding down from the top. Set the top board level before nailing it. Pick a good, straight-edged board for this place. Nail on any old cull stuff below this, and it does not really matter if the boarding does not go clear to the ground, as it will be banked on the outside clear to the top anyhow. Have these posts on the outside, of course. Nail on a narrow strip the length of the bed, three and one-half inches down from the top edge of the back well; nail another such strip one and three-quarters inches down from the top edge of the front wall. These are to support the ends of the sash bars (of 2x4) on which the sashes are to rest, and on which they slide down over the front wall of the bed, but push up against the back wall, hence the difference in the height of nailing on these supporting strips. Have these walls two inches less than the six feet apart, so that the ends of the six-foot sash will project over the edge in front just enough to allow the fingers to catch on them when lifting the sash. Close up the ends snugly so as to be flush with the top of the sash, as it is at back. Bank to the top on the outside with strawy horse manure. Then haul a load of good warm horse manure with all its straw bedding and place in a flat-topped pile near the bed. It will get thoroughly mixed in loading and unloading. After two or three days in this pile it will regain its former heat. Then place evenly in bed and tread down thoroughly while placing. Thirteen inches deep is enough for the spring hotbed. Put five inches of good rich garden soil on top of this. When the whole is well warmed through, the bed will be ready for the seeds. Plant in rows four to six inches apart running across the bed. Tomato and head lettuce will undoubtedly be the main plants grown. Sow only a third to a half of this space to these seeds. You will want the rest of the space to transplant into later. In the meantime you can grow a few early radishes and lettuce in this vacant space for table use at home. When the tomato plants are putting out the fourth leaf, say three inches high, transplant to three inches apart in this vacant space, and also where the seedlings were grown.

Keep a thermometer in the bed. Don't let the day heat get much over 80. Regulate by sliding the sash down. Cover with quilts or blankets nights and cold spells. Head lettuce can go out into the open ground as soon as the ground is in good condition, as the frost will not hurt them. When the transplanted tomato plants are five or six inches high, say about the middle of April, it is a good plan to have a cold frame near by to transplant them into in order to get hardened for the outdoor life that is soon coming to them. No artificial heat is attempted in this cold frame, simply a protection from frosts and cold spells by covering with canvas, and banking up on the outside. The growth will be slow at first in this frame until the sun gets warmer as the season advances. It will then become quite rapid, and by the time the danger of frosts is over and they are to be set in the open ground, say 10th to 15th of May, they will be twelve to fifteen inches in height and many of them budded for blooming.

There is good money in a half acre of tomatoes. The picking is scattered along through the season, and is not at all burdensome. Some well-rotted manure should be used under the hill when planting. W. D. Boynton.

Ask your neighbor to subscribe for The Homestead.

The Rumely Complete Line



We've been in business since 1853—each year we've grown bigger and built better. We've brought into the Rumely fold the best reputations in the farm machinery field—Secor, Higgins, Olds, Watts, Falk, Adams, Advance and Gaar-Scott.

There is a Rumely Product for every farm power need. Every machine is a cost cutter—a saving, not an expense.

We have a new general Rumely Catalog and a new general Advance-Gaar-Scott Catalog and separate data-books on each machine. They are all interesting, valuable books. Don't bother to write—just mark below with crosses and we'll select the catalogs for you.

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BRIGHTENING THE FARM HOME.

(Continued from page 3.)

washable draperies where they are nee

* * *

A little beauty, a cheap convenience, do wonders to make the farm home or any other home "the best place on earth," to the family. It is best when all the members of the family circle take an interest and work to make things attractive. It is "sense rather than expense" that counts. If all help they feel a personal interest in staying at home to enjoy the results. If there is a really good reading light (say a strong round-burner lamp or the specially designed student lamps burning kerosene or alcohol); a reading table with plenty of elbow room for writing letters, studying school lessons, or placing good magazines, farm journals and selected books (this may be an old kitchen table varnished up or covered with a pretty dark cloth); and some musical instrument, a harp, mandolin or organ, if you do not care for the piano; then home will mean a pleasanter evening than the street in town to the boys and the girls will be glad to entertain their company there.

For the sake of the mother who does the cooking and of the whole family when the kitchen is used for dining, why not spend a few dollars for a two or three burner gasoline, alcohol or kerosene stove with a portable oven? All summer, and for winter suppers when the room is warm enough from the range fire now low, meals can be prepared without "cooking the cook" and roasting the farmer.

Muddy boots, heavy overshoes, sweaty overalls, rain-soaked coats, for the husband and children cannot be avoided. They must be kept somewhere until cleaned or dried, and too often they hang all along the kitchen wall, unsightly and "odoriferous" from wet dye or perspiration. Any man has some spare time in winter, in "slack seasons" or on rainy days to "putter around a bit at odd jobs." And any farmer is sufficiently a "Jack of all trades" to be at least a "hammer and nails" carpenter. At an expense only of the lumber one can build a vestibule to the kitchen door, large enough for a row of hooks along one side and a wash bench and mirror on the other, with a big shoe box beneath. Here the soiled clothes and extra coats can hang and the men have their "wash up" before meals without trouble. Another suggestion of value is that this vestibule will protect the kitchen from cold drafts when the winter winds howl. The wash room problem could be met in another way, as one family did. A large closet, the size of a bath room, was built out from the kitchen and a curtain hung in the doorway. It had two opposite windows for a good circulation of air in summer. The open doorway kept it warm in winter.

Can you think of any better way to "brighten" the farm home in summer than adequate screens of wire netting or even "mosquito bar" at every single door and window? An unscreened bedroom window must be kept closed in summer, else the "skeeter bugs" come uninvited and do their worst, which may be very bad! A kitchen door screen with unpatched holes can undo the good of perfect screens over the balance of the house, for flies flock to the luring odor of good things to eat. I know personally a farmer's wife who, weary with cooking a hearty meal, stands by while the rest eat and waves a leafy branch above the table to shoo away the flies. No one fans them away when at last she has her belated meal! An hour's time and a little money to repair the screens would have saved her hours of weariness. Nor is that all. Once we considered flies only a tickling nuisance and a necessary evil. Now we know they breed in filth and feed daily in manure piles and swill barrels and that this sticks to them. A single fly can carry germs of typhoid or dysentery to a farm home as easil as into a squalid, filthy city tenement. Keeping all flies out is best; "swatting" them as soon as they appear is next best.

Another thing needed to "brighten" many farmsteads is to do away with the summer odors of an open swill barrel beside the kitchen door, a barrel of soured rain water breeding mosquitos under the eaves trough, and a pig pen too near the house. The water barrel can have a screened lid to keep the insects from laying their eggs and frequent emptying and rinsing will prevent souring of the water. The pig pens can be moved farther (I know of one not over fifteen feet from the kitchen it scented.) Covered metal buckets or cans or barrels for slops can be shut up against flies and scalded after daily emptying, with boiling water.

A room that has a faded or soiled wall paper that you cannot afford to replace can be made more cheerful at little cost. All the household and general magazines are now using full-page pictures and covers made by artists of high repute. Get a roll of plain dark green ingrain wall paper and either cut it into panels or tack it in one long strip as a frieze around the room about four or five feet from the floor. This makes a charming background or frame for pictures. Go over your old magazines or books and clip pretty pictures of landscapes, birds, people, or whatever suits your taste. Many picture postcards are worthy of a place also, and some calendar cards are artistic. These pictures can be pinned or pasted to the background. Some like also to clip poems, brief stories or anecdotes and pin them up in sight while they do mechanical work like mending or dish washing. One of my friends memorizes choice selections while she irons.

Rugs can be made cheaply of woven rags of solid colors in stripes; or taken to town to have "fluff rugs" woven from any old carpet. One woman dyed a faded rug with hot dye applied with a brush while the surface was wet from a washing in hot soapsuds. Another made a rug from her parlor ingrain carpet by turning back a hem half a breadth deep on all four sides. This made the size right and made the rug heavy enough that it was not easily "kicked up." The ends she bound with a cheap braid terminating in a knotted fringe of the color predominating in the rug.

Where the floors are bad the cracks can be filled and three coats of paint spread on; a hardwood border can be newly laid for two feet from the walls; imitation of floor veneer, a canvas back with the surface painted to resemble grained wood, can be had a yard wide, for twelve to twenty cents, and is laid like oilcloth; or matting can be bought for the borders. Housecleaning with rugs is easier than with carpets; the house is kept more sanitary, and most people consider it prettier. A good carpet sweeper or a hand-power vacuum cleaner will do wonders to keep them nice and fresh without lifting.

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Short-horns as Milk Producers.

By B. O. Cowan.

FROM the very origin of the breed Short-horns have had two qualities to commend them to the favorable consideration of farmers and stockmen, and it is this dual capacity for beef and milk production that has made them so popular. As beef producers they are known over the civilized world, but their dairy qualities, though excellent when properly developed, are not so well recognized and so need advertising and further development.

The early history of the breed furnishes many instances of cows that were great milk producers. One of the earliest breeders to develop milk production in his herd was Jonas Whittaker, and in consequence his cows were known all over England for their excellent dairy qualities and at the same time he had a good trade in beef bulls with other herds in the kingdom. Sir Charles Knightley developed a tribe known as Fawsley Fillpails that did much to establish the fame of Short-horn cows as excellent at the pail. The herd of Thos. Bates was bred for beef form and soon became the foundation head of bulls for both English and American herds, yet the milking qualities of this herd were so carefully cultivated that the cows had a reputation as milk producers that was second only to that of their beef quality. As a result of this intelligent treatment, cows in Mr. Bates' herd gave from twenty-four to thirty-four quarts of milk per day, and their descendants proved good milkers for several generations. In consequence of this the opinion gained currency that only cows of Bates blood are reliable as milk producers, and this belief is pretty generally prevalent at the present time. While this opinion is founded on facts, there are notable exceptions. Even Amos Cruickshank, who did more than any other man of his time to develop the fleshing quality of Short-horns, was not unmindful of the dairy quality of his cows, and in that marvelous herd of beef cattle were many matrons quite good at the pail.

Numerous instances can be given of excellent milkers among Scotch cows of others herds, both in Great Britain and America. The writer bred Short-horns for twenty-five years and has some good milk cows in the herd, but the best one was a twin daughter of an imported Scotch cow. This cow was a winner in the beef rings when she was young and when she became a matron she would give two or three gallons of milk per day more than her calf could take when it was four to eight weeks old.

A notable example of a good dairy cow of this line of breeding was recently given by English papers. The Short-horn steer, Golden Arrow, was champion at the Smithfield and Birmingham Shows. His dam was the Cruickshank cow, Beatrice 22d, also dam of the noted bull, Bandmaster, winner of first prize at the Royal. Beatrice 22d sold when nine years old for 220 guineas ($1,100) and at the time of sale her daily milk yield was fifty-seven pounds.

At the present day the large herds that supply the city of London with milk and butter are composed quite largely, and in some cases exclusively, of Short-horn cows, either pure breds or high grades. To some extent this is also true in New York and New England. The dairy qualities of English Short-horn cows have been more widely advertised than those of American herds, and in consequence it is generally believed that the former are superior to the latter. But it is the expressed opinion of Mr. F. W. Harding, who has visited and carefully studied nearly all herds in Great Britain, that the leading dairy Short-horn herds of Pennsylvania and New York are better than those of England. But as general statements unsupported by specific evidence are apt to be regarded as "glittering generalities" it will be necessary to give a few of the available records.

Pansy of Stranton, at the Michigan Agricultural College, produced 10,058 pounds of milk and 456.5 pounds of butter in one year and during the same time gained 324 pounds in weight. At the Iowa State College, Ames, College Bell 2d gave 7,554 pounds of milk in ten months, showing 4.3 per cent butter fat; and College Moore produced 517 pounds of butter in one year. Florence Airdrie 6th, owned by Nebraska Agricultural College, produced 10,438 pounds of milk and 494 pounds of butter in twelve months and her calf of that year sold for $200. During a four-year test, from 1903 to 1906 inclusive, she produced 35,575 pounds of milk and 1,763.7 pounds of butter, an average of 8,893.8 pounds of milk and 440.9 pounds of butter during this period. Mamie Clay, owned by Innis & May, has a record of 13,232 pounds of milk in one year and an average of 11,127 pounds during a four-year test. At the New York State Fair, 1909, during a two days' test conducted by Prof. H. H. Wing, Juliet, two years and five months old, gave seventy-eight pounds of milk, showing 4.22 per cent butter fat. She won second prize in competition with the dairy breeds and lacked only .03 per cent of first place. Lula, owned by Missouri Agricultural College, under an official test of twelve months, produced 12,341 pounds of milk and 605 pounds of butter.

The best record of any Short-horn cow is that of Rose of Glenside, made under the auspices of the Pennsylvania Agricultural College. During a test of twelve months she produced 18,075 pounds of milk and 735 pounds of butter, an average of two pounds of butter per day, and 49.5 pounds of milk. This cow is owned by May and Otis, Granville Center, Pa.

During the year 1912 a new butter record was made, and it is the best ever scored by a Short-horn cow. It was made by a cow owned by Mr. Aver, of New York, Rose 3d, I think, is her name. In twelve months she produced 15,592 pounds of milk and 531 pounds of butter, showing her milk to be very rich in butter fat.

The essential characteristic of Short-horns is beef, but a beef breed that can show a herd with more than forty cows with milk records ranging from 10,000 to 13,232 pounds is worthy of the careful consideration of men who want cows that will pay their way as dairy animals, aside from their ability to produce profitable beef animals. Such cows are well suited to present-day farm conditions and the demand for such is rapidly increasing, and the men who are producing cows with good milking qualities and acceptable beef form will have a profitable market for their surplus. The motto of Short-horn breeders should be beef and milk and not milk at the expense of beef.

The agricultural appropriation bill, when reported to the house, probably will carry an item of $450,000 for the work of the office of farm management. The appropriation for the current fiscal year was $300,000, an increase of more than 100 per cent over the preceding year. The demands from all sections of the country for the privilege of co-operating with the farm experts of the department of agriculture are so numerous that the proposed increase will not be sufficient to meet all of them.

The first shipment of hay by parcel post was when a "bale" was mailed at the Bucklin, Mo., postoffice by Fred White, a local hay baler. The bale was an exact facsimile of a large bale and weighed two pounds. The postage was eight cents.

The above illustration is a likeness of one of the fifty-five great Hampshire sows to be sold in the sale of A. L. Goodenough, Morrison, Ill., January 27th. See page 44.

E. Myers, President, E. Myers Lye Company

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MERRY WAR POWDERED LYE is not only a **safe preventive** of cholera, but it is also the best hog fattener, and all 'round conditioner the world has ever known.

Users say it positively destroys worms. It keeps the hogs on their feed, makes them fat and sleek, skins free from scurvy and keeps the digestion in such perfect condition that every pound of feed is changed into profit making flesh and fat. One week's trial will convince you.

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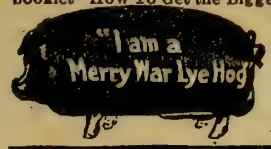
Order Direct from us in case lots—4 doz. cans, $4.80—if your dealers' won't supply you.



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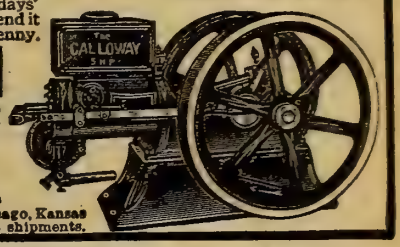

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If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of speltz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

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You can secure a quarter section (160 acres) for only $200 down. The price is $10 to $15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

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By J. C. Cowley.

AFTER you have made up your mind to drain a piece of land, first seek a proper and suitable outlet, which is all important and something to be studied before and after the work is done. I will refer to this particular point later on. Second, take a practical survey of the land to be drained, determine the location of the drains to be laid. A man who is used to the land will be able to do this better than some stranger.

There is one thing certain, that water will always finds its lowest level. Don't try to cut off the water by draining across the hill, for the water will flow under the tile, especially if your tile are not down to the proper stratum. There are three stages of water on land—surface, capillary, gravitational. This is something all farmers should study. In what stage is the water doing the most damage? Some people try to tell you how deep, how far apart, and what size tile to use, but that I cannot do without knowing something of the nature of the land, the amount of water to be taken off, the fall and the number of acres to be drained. I will do what I started to do—tell you how to do the work.

Now, there are two names for drains—"mains" and "laterals." The work you are about to do may require more than one main. Whatever size tile you use for your laterals, the size for the mains should be larger in proportion than laterals. Never use more than one outlet in a piece of work if you can possibly avoid it. The more drains you lay into an open ditch, the more trouble you have in keeping them open. Have one main sufficient to carry all the water off, and when laid, build up the mouth so that it can't wash away.

I have given the idea of laying out the work, now I will tell you how to do it. First, draw a line taut from open ditch where you intend to start your main. Dig about fifty or seventy-five feet with ordinary ditching spade, or about twelve feet past your first lateral or turnout, or submain. Make width of top to suit operator, for six-inch main about fifteen inches, for four-inch main, about twelve inches, for three-inch main, about ten inches. Slant the sides of the drain with your first spading so as to continue the slant on each side to correspond to the depth of the drain and size of pipe. This is called the first "bench," and each piece of dirt taken out with the spade is called a "split." What you have in the drain after digging, is called "crumbs." You may take them out with an ordinary shovel.

This done, now take a post spade and commence again at the open ditch. Dig another bench as before. Dig just as far as you can; if you use a "crummer" this should be used after digging about six or eight feet, having the crummer laying by the the side of the drain within your reach. It should be a flat-bottom crummer. The last bench commence as before at open ditch. This last bench must be right, with a nice straight uniform bottom and a graduated fall. Dig the sides of the last bench just large enough for the crummer you are about to use. It requires a crummer for whatever size tile you are using.

Now comes the laying of the tile. Have the tile laid with the ends to the drain about two feet from the edge. Now take your pipe hook, stand on top of ground alongside of drain, and lay in pipe very carefully, so as not to break. After one has done this a few times, he will be surprised how fast he can lay them. Never straddle the drain when laying the tile; you will knock dirt in the drain. When laid to first lateral, or where you wish to make the first turnout, make the same to commence on a line with the center of one pipe in main, dig same as main, about twenty feet after you have cleaned out and left the bottom about one inch higher than the main. Lay back in the main the pipe you took out when starting the lateral. Lay in one pipe in lateral tight up to main pipe, mark around main pipe with pipe hook just enough so you can see the mark. Then take a very small pointed hammer, pick a hole in pipe to fit in lateral. You can do this on bank, and with a little practice, you can make a very good job. The makers of tile make junction pipe, but they are never the right angle. After making the joint, lay a few pieces of broken tile on pipe joint around joint. When filling in drain, take a manure hook, pull in dirt, leaving the same loose on the pipe. Never get in the drain after you have laid the tile. The best dirt to put back on tile is the last dirt dug out, the filling done in a manner so that dirt will roll on to the tile. Don't put it in so that it will drop direct from the top of the bank hard enough to break the tile, or it may give you trouble.

In laying drain it is well to strictly adhere to the following rules: (1.) They should have a sufficient outlet. (2.) The drains should be dug, tile laid and covered the same day. (3.)

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Always commence laying tile at lower end of drain. (4.) Never dig open any more than you can lay tile in and cover the same day, always putting a spade in front of the last pipe we laid for the day. (5.) All drains must have a graduated fall and uniform bottom. Never dig your drain in bottom larger than the pipe you are going to lay. If the fall of the drain surface is broken, don't dig the same depth all the time. If you do, the bottom will be like the top. (6.) Every tile should be perfect in form, and if made of clay, well burned; if made of sand and cement they should be well cured. (7.) In laying the tile, take pains to fit all points closely, as with all care there will be sufficient space for the inlet of the water and closed joints will prevent the letting in of silt or washings. (8.) How to graduate the fall of a drain. Water is the best instrument. If you have eight or ten inches to the 100 feet, just keep the water running away from you to look about the same in bottom of drain all the time. If only two or three inches in 100 feet, or a back fall, and no water, then you must use stakes and line with a gauge arm. Be sure your line is taut and dry. Use no other but pure water cord, and set your stakes about twenty-five feet apart.

How to regulate the fall three inches to the 100 feet. With water set gauge in the drain. If gauge does not fit close enough in the drain to block the water, then puddle some clay around the sides of the gauge in drain. Then if you have water, and the bottom is finished even and smooth, the water will ripple on the bottom. In 100 feet with a three-inch fall, one and one-half inches in fifty feet and three-quarter inches in twenty-five feet. When the water reaches up to the three-quarter-inch mark on gauge and twenty-five feet back in drain without a ripple, it shows you have a true grade. Then when the water is up to the one and a half mark, the ripple will show fifty feet back, if to the three-inch mark, then 100 feet back.

Never use plow to begin drain with. There is nothing in it. You get loose dirt falling in the drain all the time and then if it rains, what a mess! Cut your drains with the proper tools, and you will have no trouble with the dirt falling in, and, besides, you can get close to the drain to lay the tile. When you commence the drain, lay the dirt on one side of drain, the one best to suit your hand. If right-handed, lay dirt on left-hand side. If left-handed, then on the right. Stack the dirt as close to the edge of drain as you possibly can, it will fill in all the better. Keep your tools alongside of the drain and within your reach at all times.

When cutting the drain, use a good taut line on one side of the drain and then commence to spade as though you meant business. No use to have a line on both sides, and no use to notch it alongside of line. You can be moving dirt while you are doing this. When you have had as much experience as I have had, you can dig a drain ten inches wide on top without a line, and dig it straight, too. Keep your tools sharp and clean. When not in use, keep them in the shade and out of rain. It pays well.

Don't try to dig a drain without a foot iron on your shoe. A blacksmith will make you one in a few minutes, but it generally takes them about an hour to make me one, and it costs me fifty cents. But they will save a good pair of shoes in one day, and besides you cannot get the spade in the ground if you don't use a foot iron.

In using a drain spade to dig a drain practice to use your foot on the inside of the spade. That is how we make them so narrow. And use the spade in front of you, and not down by the side of your leg. Of course, all drain spades have short handles. When finishing the bottom of the drain be sure when using your crummer to cut off every little bump in the bottom, and leave it smooth like a board. Always dig your drains in a straight and uniform shape, so the tile will fit tight in bottom, and not settle out of shape.

Leg weakness in chicks is often produced by feeding an improper ration. When the chick is fed a fattening ration altogether his body becomes too fat for the muscular strength of the legs to support. Feed plenty of bran to the growing chicks, as it makes bone and builds muscle. For leg weakness give quinine in water daily. It is made by putting five grains of quinine in a quart of drinking water. Bone meal, charcoal and green food should also be given.

Cockerels mated to pullets may do very well, but if they are mated to one or two-year-old hens they will produce stronger fowls. If one has pullets only he had better secure cock birds and mate with them. This will insure him more vigorous chicks.

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No. 1

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Deming, New Mexico

is located is surrounded by vast mining districts which are entirely dependent upon Mimbres Valley for farm produce. Farm products here will always get highest price because there is no other nearby land suitable for agriculture.

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Picture No. 1 shows an irrigation plant supplying 1400 gallons per minute. Good irrigable land can be bought here now at $5 to $20 per acre and equipped with such a plant at a total cost of about $30 per acre. That's much less than you'd have to pay for irrigated land elsewhere.

Picture No. 2 shows alfalfa harvest on John Hund's farm. Mr. Hund says "alfalfa turned off six tons this year, which sold for $15 per ton—or $90 per acre! My bean crop made 1200 lbs per acre, selling at $6.25 per hundred or $75 per acre." Your investment of $30 per acre here could bring you such returns as Mr. Hund gets!

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Sec'y 101 Chamber of Commerce Deming, New Mex

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Write Secretary. 101 Chamber of Commerce, Deming, New Mexico

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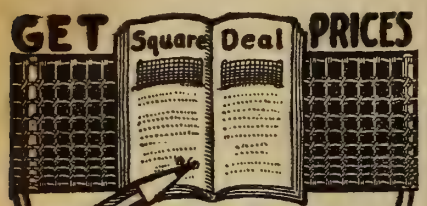

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE HAND SEPARATOR.

To the Editor of The Homestead:

There is no question that good cream can be produced on the farm by the hand separator and I believe it will be if the proper opportunities are had to value this cream according to its butter-making qualities. To the western farmer it has made dairying possible by making cream a marketable product that could be sold at the nearest railway station. It has also greatly reduced the expense of hauling the raw product to the factory, while the value of fresh skimmed milk on the farm can hardly be over estimated. But when it comes to the discussion of the handling and care of the hand separator and the care of the separator cream I am sure no one will dispute the fact that there is plenty of room for criticism.

In trying to sell a separator many agents impress the idea on the purchaser that it is unnecessary for him to have any facilities for cooling his cream and that the separator needs no washing, but can simply be rinsed with cold water. Such men are simply injuring the dairy industry. During my experience in handling hand-separated cream I have found that many patrons or producers are willing enough to do better if some one would only show them or explain to them how and why. In this part of the country this work has been sadly neglected, and yet the increased patronage and improved quality of cream supplied would more than pay for the extra work it would take for the creamery managers or cream agents to give full explanation to the patrons.

If a separator is run too slow while a full feed is given; if the milk is too cold or if the separator is so dirty that the milk tubes become clogged, a greater or less quantity of milk is likely to run in with the cream. The result of this is to produce unfavorable results in the butter especially in hot water. It is best to run a heavy cream, as this precludes the possibility of its containing milk and renders ripening more uniform. A 30 or 32 per cent cream is none too heavy, especially in summer. It will ripen better, churn more readily and produce a better flavored butter. Butter produced from such cream will keep longer and better and there will also be a smaller loss in the buttermilk.

Cream should be cooled as soon as it comes from the separator to a temperature of about 55 degrees. This is very important and a little neglect here may greatly impair the flavor of the butter especially if the milk from which the cream is taken is at all tainted or badly flavored. The separator should be located where odors and contaminating influences do not exist. The same farmer that will speak with horror of the filth and unsanitary conditions of the great packing houses will probably have his separator located in his cow barn and a very dirty and unsanitary cow barn at that. A small dairy house could be made cheaply and fitted to accommodate all the utensils and work necessary in the production of cream. The cans, pails, dippers, in short every utensil that comes in contact with the milk or cream should not only be thoroughly washed but should be immersed in boiling water for several minutes. The seams and joints in all utensils used should be filled with solder, plumb with the surface of the vessel, as these small receptacles form excellent breeding places for all kinds of germs. To many these precautions may seem unnecessary, but they are not, for analysis has shown that milk or cream put into cans that have been treated in this manner contains, a much smaller number of bacteria per cubic centimeter than does milk or cream from the same lot put into cans washed in the usual way.

The milk should not be allowed to stand in the barn or stable for any length of time. While it is true that milk will not be affected by odors as long as its temperature is higher than that of the surrounding atmosphere, the same is not true of germs. Therefore it is necessary to remove the milk at once to a place where the atmosphere is pure and the surroundings clean and free from flying dust. The morning's and night's cream should not be mixed until the latter has been thoroughly cooled.

The hand separator users are a vast throng and their influence should be used to improve their position. One of the most common causes for dissatisfaction with selling cream is the variations in the test. This is especially true when each can of cream is tested separately which is now considered the best method. It is quite a puzzle to the average man who has not had much experience with cream separators to understand why his test varies when the same separator run by the same man is used all the time and the cow's feed is not changed. but the tests do vary and this fact does not indicate that careless testing is being done as it is practically impossible to run a separator under farm conditions without having the cream vary, in fact if the cream test were always the same it would be more suspicious that when it varies slightly. The common causes are: Variation in speed of separator, variation in rate of feeding separator, amount of water or skim milk used for flushing bowl, changes in per cent of butter fat in milk, changes in cream screw. The higher a separator is speeded the greater the amount of

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skim milk thrown out and this results in giving a smaller amount of higher testing cream, a low speed gives a larger quantity of thinner cream. It is a very easy matter to vary a pint or more in the amount of water or skim milk used for flushing and this alone may be sufficient to change the test of cream 2 to 5 per cent.

William Sorensen.

FEEDING SILAGE TO DAIRY CATTLE.

To the Editor of The Homestead:

Silage is relished by all classes of dairy stock. Its natural function in the ration is to replace the grass of summer when a substitute must be found and to replace root crops as they are sometimes fed during the winter season. The former is accomplished very nicely in that the health, tone and vigor of the cows are kept up splendidly and the young apparently grows as rapidly and thrifty when fed silage as when on pasture. The superiority over root crops lies in economy and ease of handling. Silage is equally valuable for feeding purposes as root crops when they are compared by weight. The yields per acre are practically equal and the cost of silage only one-third as much. In handling at feeding time there is less work with silage in that roots must be run through a cutting machine and silage is ready for use as soon as thrown out of the silo.

Convenience and ease of handling should be sought in feeding silage. When it is considered that the greater portion of the natural moisture of the corn or other silage crop is stored up in the silage it is easy to see that an immense amount of weight is to be handled. Usually, some sort of a carrier can be arranged for carrying silage from the silo. Various means are employed for this purpose. Some barns are equipped with automatic carriers. Others have a large box mounted on two or four wheels, being so constructed that silage can be thrown into it from the silo and taken out at the bottom with a shovel or fork. It is positively too much work to carry the silage any distance for a number of cows. A great many miles are traveled unnecessarily every year by men who feed in that manner.

There need be no misgivings concerning the use of silage. When a man considers that it contains the same qualities as green grass he can feed it without producing ill effects of any kind. Very naturally a small amount should be fed at the beginning. This amount may be increased as the animal shows an appetite for it and her physical condition will permit it. In opening the silo for use the upper surface usually is found to be spoiled. That portion should not be fed, as with other spoiled feed it is very likely to cause indigestion. The grain in it may be utilized by throwing the discarded portion to the hogs and allowing them to work it over and pick out the grain. One of the factors in keeping silage from spoiling is to feed off a uniform amount daily. It has been calculated and experience has borne it out that if the level is lowered two inches each day there will be no perceptible spoiling. Some inexperienced men have made a mistake of leaving the silage standing higher next to the wall. This provides for a larger surface to be exposed to the air and for a longer time. Naturally some spoiling results which could be avoided by keeping the surface level at all times.

Silage does not taint the milk of cows to which it is fed. Numerous criticisms have been made on that ground, yet tests in sanitary and other dairies have proven that the criticisms are ungrounded. However, it is not best for the cows to have silage in their mangers during milking time as there is a possibility of the fresh, green odor that rises from it to get into the milk. A general and very satisfactory practice is feed the grain immediately before milking. As soon as the milking is finished the silage is fed and after it has been eaten up the hay is put into the mangers.

A careful feeder quickly learns the amount each cow will eat or should have. This, of course, depends upon the size of the cow, the length of time she has been giving milk and other purely local factors. In a general way it may be said that a cow giving a full flow of milk will eat about forty pounds per day divided into two feeds. It is well to bear in mind that a portion of the silage is composed of grain, especially if it is corn silage. It is estimated that ordinary corn silage be decreased.

What is best to feed with silage is asked by beginners everywhere. It is to be granted that silage will not make a complete ration by itself. The greatest value is for its succulence in keeping the heavily worked system of the cow in health and vigor. Corn silage lacks in protein which is necessary in composition of milk. Protein is furnished abundantly by good alfalfa or clover. The concentrated feeds, such as oil meal, cottonseed meal and gluten meal, are high in protein and may well be used in small amounts to supply the deficiency in case protein is not supplied in the hay. In this as in other factors local conditions largely govern the operations. A herd of cows that has probably produced the highest yearly average of all herds managed under practical farm conditions was fed for seven months on corn silage and alfalfa hay with from six to eight pounds of mixed grain per day.

Silage may well be fed to the bull, to the calves and to the dry cows. The bull relishes it and it has the same beneficial effects upon his health. Besides that just as with the cows it is an economical practice to feed it. For the calves it keeps them growing, keeps the coat soft and shining. Dry cows often need little in addition to silage. It has the effect of cooling out their systems and getting them into condition for a heavy lactation period to follow. With all these classes of stock the silage may be fed in the manner most convenient, provided there is regularity and system used in so doing. With the calves it is not a bad practice to place the silage in the manger first and to place the grain upon it, and then to feed hay later. This plan may be followed with the bull also. In the case of dry cows if they are running in a yard or shed it is just as well to feed them in a long, open bunk or manger. Care must always be exercised that no more is fed than is cleaned up. Should any remain from one feeding it should be removed as it is certain to sour when exposed to the air.

H. E. McCartney.

WINTER DAIRYING SUCCESS.

To the Editor of The Homestead:

To be successful with winter dairying and make the most money while the price is high, we must first have comfortable stables. They must be neither too warm, nor too cold, and, particularly, must they be well ventilated.

Water should always be accessible to the cows, and heated in some way, not very warm, but just enough to take off the chill.

It is the customary practice on some farms to drive the cows out and cut a hole through the ice on the pond or stream, as the case may be, and let them drink under the various conditions all they want in any kind of weather. Sometimes on a very cold day they will be too cold to drink and start back for the barn without getting a single drop of water. Next day is sometimes too stormy for them to leave the stables, and thus they do not get water for two or three days, perhaps. Cows in milk under such conditions of living and management could not by any means give a paying quantity of milk. Even when butter is selling for thirty and thirty-five cents per pound in winter time, it would be very difficult to make a dairy pay when the cows are watered thus.

In cold weather the cows should be turned from the stables only long enough to clean the stables properly. When turned out, especially upon a cold day, they should have their water supply before going out, so that they will not need to go to a tank of ice water to satisfy their thirst, and thus they will not suffer ill effects from the cold.

When the weather is mild, they may be turned into the yard for some time for exercise and for the benefit of the sunshine. If the weather is very fine they may be turned into the fields and they will enjoy the liberty.

But in case the cold winds are blowing, they should be kept in the shelter of the stables, for I have found that unless so protected, they shrink very much in their milk and when once the milk flow is stopped, or checked, it is exceedingly costly to bring them back to their full flow again.

I always clean out the gutter and put in a good bed of clean straw before milking, or better still, when feeding shredded corn fodder, I take the refuse out of the mangers before feeding again and put it back under them. The cornstalk thus is a great absorbent of liquid. In fact I think it superior to straw. I have used it for the last few years now with great satisfaction.

The manure from the cornstalks is wheeled into a shed adjoining the barn, where the house manure is also placed. The hogs that are kept during the winter time have access to this shed, and they mix the manure thoroughly from both the stables. This method prevents an undue heating of

Home of the Golden Rod herd, G. Van Patten & Son, Sutton, Neb. A great sale of Duroc bred sows will be made on this farm on February 19th. Send for catalog.

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the horse manure, and makes a better preparation for the field for fertility.

The hogs are fed grain, together with skim milk and buttermilk from my dairy. They are well, but carefully fed, and are ready for market before seeding time the following spring.

Many farmers are beginning more fully to realize the value of the corn plant as cattle feed, both in the form of shredded corn fodder and silage.

We can no longer afford to let it waste in the fields, as we have heretofore.

My experience is that it is far superior to many kinds of hay and much more economical. Nothing will beat silage for the dairy, and shredded corn is I believe much better than timothy hay, which I see many farmers feeding their dairy cows.

Subscriber.

THE PLACE TO BEGIN DAIRYING.

To the Editor of The Homestead:

Just now a good many farmers are turning their eyes toward dairying. No doubt the high prices which have prevailed for the past few years have had something to do with this determination on the part of a good many who have not heretofore paid much attention to that part of farming. Some, too, are beginning to see that if they would keep their farms in a good state of cultivation, they must in some manner get more natural fertility and have come to appreciate the fact that there is no better way of doing this than by keeping cows.

But two or three things stand in the way of these dairy plans. One is the high cost of cows. A man must have quite a lot of money to step out and buy cows that will be such as we want. Very few dairy cows are on the market at the present time. Their owners are well satisfied with their profits from milk, butter and cheese and do not care to sell.

Again, there is no surplus of cows at best. For some years the scarcity has been more and more apparent. Beef has taken most of the poor cows out of the country—poor, I mean in the way of milk production. I feel sure that there never was a better lot of cows in this country today than there are just now. Start out to buy cows and see if it be not true that there is a real scarcity.

How, then, and where shall the man begin who wants to establish himself in the dairy business? Can we afford to get in debt for cows? Would we be sure of paying out if we did? The price of milk and milk products may decrease and leave us in the lurch. This latter supposition is not very likely to be realized. We never will see milk and butter back where it was a few years ago. But I am not of those who advise going heavily into debt to carry on any farm operation. My way would be this: I would buy a few choice cows and place at their head a good bull—the very best I could. Then I would steadily work into the larger herd I desired. This would give me experience as I went along, if I never had any before in dairying. I would have the advantage of knowing every one of my little herd personally, which I consider a marked advantage. I would expect to take a great deal of pleasure as I went on, and before many years passed I would have as large a dairy as I wished without having expended a very large sum of money.

E. L. Vincent.

IOWA SHORT-HORN MEN MEET.

The Iowa Short-horn Breeders' Association which has recently been reorganized held its first annual meeting in the agricultural building of the state college at Ames on the afternoon of January 6th. A severe storm the previous day prevented many from attending, however, a good-sized crowd of enthusiastic supporters of the breed were in attendance and the association promises to become one of the strongest of its kind in the state.

A short, but extremely interesting program was rendered. Mr. George Burge, of Mt. Vernon, giving a talk on "The Past and Present Association and Its Future Possibilities," and Dean Curtiss spoke on the subject of "Short-horns and Iowa Agriculture."

At the business meeting it was voted that a committee be appointed to extend to the veteran Iowa breeders, Mr. L. S. Coffin and Mr. C. S. Barclay, an appreciation of their work as early breeders and as founders and promoters of the asociation.

It was also voted to accept the offer of $100 made by the state fair board for the building on the state fair grounds owned by this association, and a committee was appointed to select suitable premiums to the value of $100 to be offered at the coming state fair for cattle shown by members of this association.

A general discussion followed concerning the affairs of the breed within the state and a summer meeting was suggested and in all probability will be held some time in June, probably at some breeder's farm where the needs of the association can be more fully discussed.

Iowa has more Short-horn breeders than any other state in the Union, many of whom are young men, beginners starting in a small way, but in the end bound to become breeders of more or less prominence. It is to this class of breeders in particular that the association offers its greatest usefullness in the way of offering special premiums at the state fair, doing association advertising, holding bull sales or whatever the members may deem most valuable to all concerned.

New members are daily being added to the list and the membership enrollment promises to be larger than it has ever been.

Officers for the coming year were elected as follows: President, Wm. Herklemen, Elwood; vice-president, J. A. Benson, Sheldon, and secretary and treasurer, E. R. Thomas, Audubon. Howard Vaughn, of Marion, and Geo. Burge, of Mt. Vernon, were chosen as directors to serve two years and Ralph Watts, of Miles, and C. F. Curtiss, of Ames, were chosen as directors to serve one year.

EXIT THE RURAL PASTOR.

In the last few years 21 per cent of the country churches of the United States have fallen into disuse, according to figures given to 1,000 farmers in a lecture here today by the Rev. C. F. Adams, who recently has made an exhaustive investigation of the country church. Mr. Adams was one of the speakers at the annual farmers' week at the Missouri State College of Agriculture. He characterized the present country church conditions as appalling.

"Sixty-nine per cent of the country persons never attend church or have no church connection at all," he said. "The rural community has had to supply the pulpits of the cities and as a result the country church has gone down. Eighty-five per cent of our city ministers come from the country.

"The country church at present is used as an experimental station. The young ministers just try themselves out on the country people for a short time and then leave. In many cases the pulpit is filled but once a month and then the congregation does not see its minister again until he preaches another sermon."

Mr. Adams says the building of parsonages in the country and the spending of their leisure time in farming by the ministers is the only thing that will solve the problem. This will give the preacher an interest in the community and opportunity for making a living.

LOOK OUT FOR ASPARAGUS RUST.

Rust is one of the deadly foes of asparagus and when a bed has been infected with this disease one had just as well plow it up. By carefully caring for the bed one may be able to prevent the rust from striking it.

One of the worst things to infect the bed is the wild asparagus growing along the fences. Their influence can be easily traced later in the season. So it is a wise plan to dig up all these wild roots and burn them. The dead stalks from the wild asparagus should also be burned.

Watch the shoots in the bed and cut away all poorly formed ones, and above all do not let the asparagus that has grown rank fall about the bed and decay. They should be removed while green, and as soon as dry burned up. By keeping the bed clean there will be no great danger from the asparagus rust.

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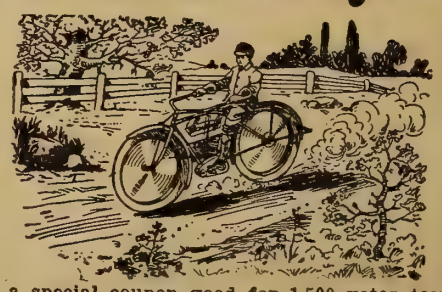

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.
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VETERINARY MATTERS.

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

CROOKED LEGS.

I have a last spring mare colt that has straight hoofs. She was all right when she was born, but this condition became noticeable when she was six weeks old. Her limbs are perfect and only her front hoofs are affected. She does not limp, but seems to walk on her toes.

In such cases persistent hand rubbing of the back tendons of the legs, several times a day, and forcing the feet to assume their proper position on the ground, sometimes gradually effects a cure. Each night during this treatment the legs should be bandaged from feet to knees. If these simple measures do not avail, then the only recourse will be to have the tendons cut by a graduate veterinarian. We refer to the operation of tenotomy, which can only be done safely and successfully by a qualified surgeon.

FISTULA.

I have an eight-year-old bay colt. When he was two months old a large lump raised up on his neck just back of his jaw. It got larger and larger and did not break, so I lanced it and it ran a little thick blood and went away. In about two weeks it raised again and broke. I thought it would be all right, but it raised again and broke and has been running ever since. Have used some liniment. Can this be cured?

We suspect that you may have caused a fistula of the salivary duct, by cutting into the enlargement, but without an examination we cannot decide just what is the matter. Try effects of painting with tincture of iodine each day, after clipping off the hair and also inject a little of the tincture twice a week.

INDIGESTION.

I have a brown mare, four years old, weight 1,130 pounds, that I think has weak kidneys. When not working her urine is a light yellow, but when she is worked or driven she passes bloody water and just a few drops at a time about every ten minutes. Her bowels also become loose when I drive her. Before starting she seems to be in natural condition, but after a short drive her bowels become loose and stay in this condition for about a day. The passage is just like water and the mare gets very weak. Have given no treatment.

Never let this mare stand for a single day idle in the stable. When there is no work for her to do turn her out in the yard and cut the ration in half. Give her a roomy box stall in the stable. Let her have free access to rock salt. Give the drinking water before feeding. Feed whole oats, wheat bran and best of hay, allowing not more than one pound of each, per hundred pounds of body weight, as a day's rations when ordinary work has to be done, but increase the grain ration when work becomes hard. It may be that there is a stone or gravel in her bladder and either can be removed by operation; but an expert will be required. She will not be likely to scour if you feed and manage the mare as suggested here. If she eats her bedding, bed with planing mill shavings or sawdust.

LAMENESS.

Would like some advice in regard to my sorrel horse, four years old and weighing 1,000 pounds. About two months ago, when I was in town, he got scared and broke loose, but did not go far until I caught him. I rode him home and did not notice anything wrong for a few days. Then he did not like to step over the barn door sill. I hitched him up and drove him and he seemed all right except that he sweat around the stifle joint. I turned him out for a few days and then drove him again and he got worse. I bathed the stifle with liniment and I noticed he would flinch from any pressure on the leg, but did not have any fever. Now there seems to be fever in the fetlock joint and he lifts his foot as high as he can get it if I touch it.

Confine the horse to a large box stall and poultice the affected joint with antiphlogistine, applied hot and covered with antiseptic cotton and bandage. Renew the poultice when the clay tends to become dry. Should lameness persist after the inflammation has subsided clip off the hair and blister with cerate of cantharides.

Los Angeles Herald: Five hundred beautiful queens, absolute rulers of a buzzing nation of 10,000,000,000 bee inhabitants on the sunny plains of old Italy, will soon be imprisoned, put aboard a transatlantic ship and sent to California, where, with their sturdy constitutions, they will help to breed a new race of bees and prevent the advance of "black brood," the plague of beedom.

IN THE FIELD MAKING MONEY—

or in the Barn Wasting It

Whether your horses work or not, their feed costs you big money. When a horse is laid up you not only lose the cost of *feed*, but also the profit that the horse would have paid if *able* to work in the field.

Since there is no way to *prevent* spavin, curb, splint, ringbone, sprains and lameness, your thought should be given to the quickest, surest and most economical *cure*. And for over 35 years, thousands of horsemen have depended on Kendall's Spavin Cure. It's the old, reliable, *safe* remedy that has saved thousands of dollars' worth of *horse flesh*, to say nothing of the *worry*, *time* and *trouble* it has saved horse owners. *You* should get and keep a bottle of—

Kendall's Spavin Cure

for emergencies. You never can tell when you'll need it, and when the time does come, you'll be mighty glad you had the foresight to prepare. Here are samples of the thousands of letters we receive from grateful horse owners every year. Mr. J. J. Sandlin, New Hope, Ala., writes:—"I am a great believer in Kendall's Spavin Cure. A few applications have just taken an unnatural growth off my horse's back, thereby increasing his value $25.00 at least." Mr. J. B. McCullors, Haleysville, Ala., writes:—"Last July I bought a mule for $65.00. He had a bad Spavin and was unable to work but after using three bottles of your Spavin Cure, I cured it and he was sold in March for $180.00. I advise all horse owners to use Kendall's Spavin Cure." And Mr. Wm. Booth, of Grovette, Ark., writes:—"I have cured both Blood and Bone Spavins, taking the bunch all off and leaving the horse as sound as he ever was. The horse does not need entire rest while using Kendall's Spavin Cure. Light work and careful handling are better than standing in the barn. If the horse was in the pasture not many people would take proper care of him. I use the Spavin Cure a week at least, sometimes three, according to the severity of the trouble. There is enough in one bottle to cure three large Spavins if used according to directions. It is excellent for bruises, both for man and beast. Your Spavin Cure will cure Thoropin in a hurry. With over twenty years' experience with this remedy I know what I say to be true. If one doubts my my word he may bring me a horse with a Blood Spavin on one leg, Bone Spavin on the other and Thoropin on both and I can make him a sound horse in six months. What I have done I can do again and what I have done others can do."

Why experiment with other remedies—when you know what Kendall's has done and can do. You can get Kendall's Spavin Cure at any druggist's, $1.00 per bottle, 6 for $5.00. Ask for free book. "Treatise on the Horse," or write direct to

Dr. B. J. Kendall Company, Enosburg Falls, Vt., U. S. A.

SAVE-THE-HORSE
(Trade Mark Registered.)

THE LAME HORSE is never cured whose owner reads and doubts,—BUT FAILS TO ACT—Here is a case in Point,—And what Happened to this Subscriber is Taking Place with Thousands.

Letter No. 1 Orleans, Vermont, April 26th, 1912.

Troy Chemical Co., Binghamton, N. Y.—Your adv. has given me courage to try again. I have a valuable pacer. Two years ago he went lame. I tried every remedy and Doctors have blistered three times for spavin and twice hip. The symptoms are—etc., etc. I determined to see what you think. HALE MASON.

Letter No. 2

Orleans, Vt., May 2nd, 1912.—I received your letter and book yesterday and believe you are right about its being a bone spavin. I was so encouraged I drove eight miles and bought a bottle of Fred D. Pierce, druggist at Barton, and will closely follow your special instructions. Thanking you for your quick reply to my first letter, I remain, HALE MASON.

Letter No. 3

Orleans, Vt., Oct. 9, 1912.—Perhaps you expected to hear from me before, but I have been waiting to see if any trouble would return after stopping the treatment. I am pleased to say the horse is well. I cannot thank you enough for your interest and the advice you gave. If I had known about it two years ago it would have saved me a lot of money. Yours respectfully, HALE MASON.

Save-The-Horse has stood alone and unique among veterinary remedies for over seventeen years.

Every bottle of Save-the-Horse is sold with an iron-clad contract that has $60,000 paid-up capital back of it, guaranteeing to permanently cure or refund the money; no matter whether it is Bone or Bog Spavin, Tendon disease or Puffs—nor how aged, serious or complicated the lameness or blemish may be.

But write, describing your case, and we will send our—BOOK—sample contract, letters from Breeders and business men the world over, on every kind of case, and advice—all free (to horse owners and managers).

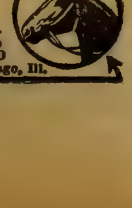
Write! AND STOP THE LOSS.

TROY CHEMICAL CO. 3 Commerce Ave., Binghamton, N. Y.

Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by us Express Prepaid.

Don't Have a Blind One

If Your Horse Has Eye Troubles Use "VISIO"



The acknowledged standard veterinary eye remedy—$2.00 per bottle postpaid on receipt of price. VISIO REMEDY ABSN., 2458 Calumet Ave., Chicago, Ill.

The illustration presented herewith is that of the great Short-horn bull, Golddust 263019, the sire of a great lot of the cattle that go in Smith & Son's Short-horn cattle sale to be held at Tobias, Neb., on March 18th. Watch for later announcements.

To Live Stock Men

Diseases of Cattle, Horses, Hogs, Sheep and Poultry treated by Dr. David Roberts, the nation's greatest veterinarian. Book of 184 pages, plain, practical, authoritative. Gives symptoms, tells what to do.

Get this book. Free at most drug stores; if not at yours, send 25c and receive copy direct, postpaid. You can write Dr. Roberts about any trouble with your live stock and get his personal advice by enclosing a 2-cent stamp. Experiment is more costly than neglect. Get correct information by writing Dr. Roberts today.

Free Advice

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LUMP-JAW

positively cured in less than three weeks with one application of—

ADAMS

Rapid LUMP-JAW Cure

Easy method, little expense, no pain or scars. Written guarantee with each bottle. REMOV-ALL—"Beats 'Em All" for Sprains, Curb, Bog Spavin, all lameness. Sold on money-back guaranty. Free—Treatise on curing animal diseases. Write for copy today. H. C. ADAMS MFG. CO. Dept. 14, Algona, Iowa.

CLEAR-EYE

FOR HORSES' EYES.

Best remedy ever discovered for Moonblindness, Pink-Eye, Cataracts and all ailments of eyes of animals. $2.00 a bottle. Guaranteed. Write for our free horse book. "Forty Facts for Horse Owners." THE LAKESIDE REMEDY CO., 5428 Calumet Ave. - Chicago, Ill.

SANTO NEWTON - IOWA.

THE GREAT FEVER REMEDY

for Swine, has checked thousands of cases of swine disease. Protect your swine as thousands of others are doing. If you have any sick hogs write at once for full particulars and terms to

THE GIBFORD CHEMICAL CO., NEWTON, - - IOWA.

Dobry's Hog Remedies

POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd. Address John Dobry Mfg. Co., Cedar Rapids, Iowa.

WANTED: A MAN OR WOMAN all or spare time to secure information for us. Work at home or travel. Experience not necessary. Nothing to sell. GOOD PAY. Send stamp for particulars. Address M. S. I. A., 552 L Bldg., Indianapolis, Indiana.

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Mr. F. E. Bennett of Ohio

Mrs. Laura J. Clark of Illinois

Mr. Geo. W. Black of Indiana

Mrs. F. H. Osman of Ohio

"Tycoe Cup"

Jim Rohan, Pres.

Don't Be Satisfied With Anything Less Than Championship Hatches!

Let Jim Rohan and His World's Champions Tell You How To Get Them Every Time

SEND me your name and address on a postal. I want to mail you my World's Championship Hatching Facts. I want to tell you how *you* can get championship hatches—how *you* can beat *every other incubator* in your neighborhood. I want to tell you how you can make the *most* money, at *least expense*, with *least effort*. I want to tell you how my champions (shown above) get 100 per cent hatches and how they raise their chicks. I will tell you how and why my Belle City won six world's championships against machines costing from two to five times *more*. And I'll quote you a price that will *surprise* you—the lowest price you ever heard of, for the incubator that has established an unequaled record for perfect hatching. Won't you write me a postal? The facts, proofs and information I'll send will guide you *right* in making the wisest selection of an incubator and brooder. My

World's Champion Belle City

The 6-Time Winner

is making big money for 195,720 other folks, under all conditions. I want to send you letters from hundreds of them—tell you the reasons *why* my customers are *my friends*. I want to tell you exactly how my World's Champion Belle City is made—how I have embodied in it *everything* that makes a hatcher *successful*. I want to tell you about my famous double walled hot-water brooders guaranteed to raise the chicks—all about my manufacturing, selling and shipping plan that makes my remarkably low price possible. I'll show you why you never before could get such *sure* profit-makers for so little money.

Write Me a Postal

Just say "Send World's Championship Hatching Facts." It's free. I'll quote you my lowest price, freight prepaid. I'll tell you *how* you can have 1, 2 or 3 months home test of a World's Championship Belle City at my risk—how I protect you by my personal 10 year guarantee. I'll send you all these sensational facts if you just write me a postal. Do it *now*. Jim Rohan, *Pres.*

1, 2 or 3 Months' Home Test

Now! Get My Low Price and Money-Back Offer

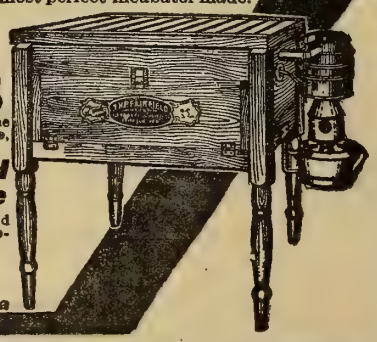
We Ship Quick from St. Paul, Kansas City, Buffalo or Racine Freight Prepaid

Belle City Incubator Co., Box 52 Racine, Wis.

The Only Guaranteed Incubator in the World

Not only guaranteed to be made right and to work right, but guaranteed to hatch 90% or better every time. That means the Fairfield is the World's Best Hatcher, the incubator you need to make poultry profits certain because it's the most perfect incubator made.

AIRFIELD Incubators



are not an experiment. Thousands in use. Every one making good. They are easy and cheap to operate, will pay for themselves on first hatch.

Write for Free Catalog and My 90% Hatch Guarantee

Find out all about the Fairfield, Get my fair and square trial offer so you can settle the incubator problem right. Address

SAM THOMPSON, President,
Nebraska Incubator Company,
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125 Egg Incubator and Brooder Both For $10

Why pay more than our price? If ordered together we send both machines for only $10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay. [12]

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WISCONSIN INCUBATOR CO., Box 119, Racine, Wis.

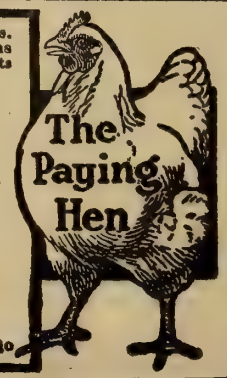
Layers are payers. The more eggs, the more profits. It is the number of eggs, not the number of hens that determines the season's income. For lots of eggs use

Pratts Poultry Regulator

Makes hens lay because it puts them in condition to bear the strain of egg production.
25c, 50c, $1; 25-lb. pail $2.50
During the winter months much loss is caused by colds, catarrh and roup.

Pratts Roup Cure

25c, 50c, $1
is the one sure preventive and cure
"Your money back if it fails"
Pratts 160-page poultry book 10c by mail.
Get Pratts Profit-sharing Booklet
Our products are sold by dealers everywhere, or
PRATT FOOD CO., Philadelphia, Chicago



POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

THE USE OF SPROUTED GRAINS.

To the Editor of The Homestead:

Foods and feeding are vital factors in the successful care of poultry. And there is not a careful poultryman today, whether on the farm or the commercial poultry plant, who does not recognize the imperative need for green food the year around. This need may be met in many ways, especially by stored vegetables, such as cabbage, mangels, clover and alfalfa hay, for use during the winter months, when nature is in her annual sleep. The idea of sprouting grains came to some bright mind a number of years ago, but it has only slowly taken practical form, and now promises to come into general use. The very fact that it is assuming commercial importance sufficient to develop regular plants for its production, and also the appearance upon the advertising pages of our poultry and agricultural journals of devices for minimizing the task of preparing this desirable food at home, shows the trend of the times. Sprouted grains have come to stay, and to assume a prominent place in the food rations.

"Green things growing!" We all know with what delight the feathered flocks, from the wee babies to the mature fowls, hail the tender green of the early spring. They are fairly ravenous for every blade coming through the brown old earth. And so if we can supply them with this luxury, which seems to meet such a vital need of their natures, we have taken a long step toward turning winter into spring, and bridging the difficult gap between the season of greenness and growth.

Such grains as oats, wheat and barley have been found to be the best adapted to the sprouting process. These grains increase considerably in bulk when soaked and if kept very moist for a day, and then spread out in a warm place and kept damp, will soon throw out shoots, which in a short time will become a perfect mat of green. The softened grains are still there, and the green growth still further increases the bulk of available food. Expert authorities tell us that in the process of sprouting certain chemical changes take place. Heat, water and atmospheric air are necessary to the germination of the grain. The water softens the grain, the carbon unites with the oxygen of the air, and carbon dioxide is liberated. The starch, according to this authority, changes to a compound closely resembling sugar, and the embryo plant begins growth, living on the material of which the grain is composed until the rootlet can strike into the soil and seek plant food there. Thus we see that sprouting grain does not increase the quantity of nutritive material which it originally contained, but it so changes it that it becomes more palatable and there is some reason for believing, more nutritious. Experiment seems to favor the idea that the process of germination in some manner predigests some of the elements of nutrition contained in the grain so that a larger percentage of it is assimilated, thus making it more valuable.

But how may the farmer or ordinary poultry keeper prepare these sprouted grains? This is a practical question, and one which has been solved in different ways. If a furnace cellar is available, with some sunlight, it is an ideal place for this work. After soaking, the swelled grain is placed in large, shallow boxes, something like the "flats" used for germinating seed. These may be placed in tiers for the first few days, since light is not indispensable for the period of germination. Occasional stirring is necessary, that the grain may be neither rot nor mold. After a thick mat of green has developed it may be cut into squares and fed to the fowls. If a cellar is not available, the process may be carried on upon a small scale about a big, accommodating kitchen stove, provided the mistress of the

Johnson's New Book

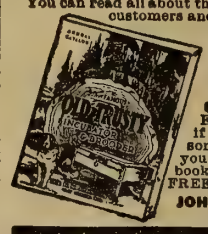
Tells Why Farm Folks Make Big Money With The Old Trusty Incubator

400,000 people—most of them farm folks, have made big money with the Old Trusty. The Johnson's new book tells why. It also tells why the Old Trusty costs less than $10, freight prepaid—and why *anyone else* would have to charge $15 to $20 for it.

Johnson Pays Freight E. of Rockies

30 to 90 Days Free Trial And 10 Years Guarantee

You can read all about the Johnson's and their 400,000 customers and friends in this



Free Poultry Book —now ready for 1913. The Johnson's price is lower than $10 complete—freight paid East of the Rockies, that far if you live beyond. Let Johnson tell you his price and send you his Big New 1913 Poultry book, with over 300 photographs FREE. Address

JOHNSON—Incubator Man, Clay Center, Nebr.

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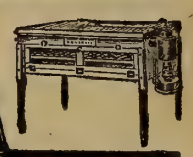

Send me a postal. Get my offer. My new Triumph Incubator is the result of my 20 years experience in the poultry and incubator business. Hatching eggs is made simple, easy, sure. My book proves it. Reads all the facts about

TRIUMPH INCUBATOR

Has redwood case, basswood inner wall, dead air space, asbestos lining and building felt. Front has double glass door with air space. Copper hot water heating tank with galvanized attachment for hot air. Automatic regulator, self-ventilation, lamp, high nursery, strong egg tray. Complete, with thermometer, egg tester, set up, ready to run. My price saves you $5.00 or more. Address R. F. Neubert,

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The Incubator That Makes a Complete Hatch on One Filling of Oil.

Fill oil tank **once**, with **one gallon of oil**, then light lamp—the RAYO, with automatic regulator, will **complete the hatch.** The RAYO eliminates the daily morning work and dirt. **Saves big oil-money.** CENTER HEAT, directly under egg chamber, gives perfect radiation—even temperature. Turn eggs without removing egg tray. Clean lamp without removing tank or chimney. See eggs and thermometer through glass top. Regulator adjusts to fraction of degree. Double heating system saves heat. Automatic ventilation. Roomy nursery. Thick wood case, enameled steel covering. Big hatches certain. Low direct-to-you price, **freight prepaid.** We want you to send for Free Catalogue No. 12

RAYO INCUBATOR CO.
942 South 13th St. Omaha, Neb.

Egg Maker

Compounded by Geo. H. Lee

55 per cent. blood meal, best meat food for laying hens and growing chicks. Salts, spices and matter fowls must have to do well. Contents sworn to under Pure Food Law. 25c, 50c, $2.00, 100 lbs. $7.00. Lee's Lice Killer is death to lice, harmless to fowls. Kills by fumes. 35c, 60c, $1.00.

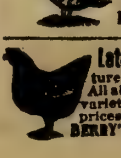
Try GERMOZONE

Lee's greatest poultry preparation, in use 15 years, cuts chick losses 90 per cent. Ideal remedy for *Roup, Colds, Cholera, Chicken Pox, Bowel Complaint, etc.* Tones and puts life into fowls of all ages and is best guarantee against contagion. Given in drinking water. Price 50c. Valuable Lee Books on poultry and incubators, free. Address

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

PFILE'S 65 Varieties

LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box 621 Freeport, Ill.



INDIAN RUNNER DUCK CULTURE

Finest illustrated duck book published. Tells how to hatch and care for greatest egg producing fowl on earth. How to get a start. Quotes low prices on stock and eggs of finest strains. Send for 2 cts. postage.

Berry's Farm, Box 145 Clarinda, Iowa

Latest Book "Profitable Poultry," 120 pages practical facts, 100 beautiful pictures. Latest improved methods to raise poultry. All about world's famous Runner Ducks, 53 other varieties pure-bred poultry. This Book, lowest prices, fowls, eggs, incubators, etc., only 5 cents.

BERRY'S POULTRY FARM, Box 49, Clarinda, Iowa

Get This Big Help!

Don't do *all* the work yourself. Harness your farm to a team of French Dry Batteries.

For a *few cents* you can save hours of time, miles of steps and a pile of dollars. The convenience and luxury of electricity is at your hand ready for instant use *all the time*, summer or winter, rain or shine.

Just the pressure of a button or a twist of the wrist and presto! the gasoline and automobile engine is started; both party and exchange lines of the telephone are working; gates and doors are opened; call bells are rung, and scores of other duties are performed by the aid of

The marvelous French Dry Battery delivers a strong current of electricity for a *long* period. They are scientifically constructed packages of electricity. Poor quality batteries give a weak current for a *short* time.

Don't Take Imitations

French Dry Batteries are imitated the country over. Most batteries *look* alike, but in service and satisfaction there's a vast difference. So be careful. Insist on *genuine* French Dry Batteries. If you want to learn of *all* the ways French Dry Batteries can help you do your farm work, send your name and address at once. It brings *all* the facts.

FRENCH BATTERY & CARBON CO.
1 Inca Street, MADISON, WIS. (8)

kitchen is sufficiently interested in the chickens not to object.

The experiments of a clever farmer who utilized his silo for green feed for his poultry is quite interesting and suggestive. We quote from the Successful Poultry Journal:

Last year we built a silo and after our corn was run in we put a few loads of alfalfa on top to exclude the air, then put about four inches of oat straw on top of that, and a bushel of oats, wetting it down thoroughly.

In two weeks we had a rank growth of oats, the heat from the silage causing it to grow very fast; this we fed to our runner ducks. Later we took some of the silage out and found it turned brown and slightly acid, but gave some mixed with oil meal and middlings to our ducks and they ate it greedily. Then we gave some to our laying hens and they were simply crazy for it. After the alfalfa silage was used up we fed corn silage to good purpose. It was always mixed with warm water or warm milk from the separator. We mixed the corn silage the same way, and both hens and ducks would leave any other food for it.

Of course, silage is not sprouted grain, but in this case the bushels of oats was successfully sprouted on top the other contents, and the discovery that the silage served much the same purpose as the sprouted grain, may be suggestive to some of your readers.

So far we have considered the sprouted grains as a winter feed. It is equally adapted for summer use when needed. For little chicks or yarded fowls, or late in the summer when the vegetation is no longer succulent and tender, it is of immense value. I remember reading of a man some years ago who kept such feed before his yarded birds by the simple device of placing over it a wire netting cover, so that the fowls could only eat what grew up between the meshes, thus keeping it growing for some length of time. A growth of alfalfa could thus be kept available for a long time.

Digressing a little, we may say the wheat, oats, barley or kafir corn, even when soaked only a few hours, are preferred by the fowls to dry grains of the same kinds. This is especially good for hot weather. When the "Better Farming" special train was making its tour through North Dakota, the poultry exhibit claimed a large share of the attention and interest.

This poultry exhibit occupied a flat car, with its poultry house, coops, brooders, incubators and other equipment. A few birds were kept in the house, with a small covered yard for their convenience. The feature that seemed to attract the most interest was the way in which green food was supplied to the birds during the journey by means of sprouted oats in a box of dirt and covered over with wire poultry netting. It was a practical idea which the North Dakota farmers were quick to appreciate.

The many bright, resourceful men and women on our farms will not be slow to adapt this idea to their own conditions and surroundings. When it comes into general use old Mother Nature will have to own up that we have really gotten ahead of her for once. Mrs. S. B. Titterington.

If fowls are afflicted with any liver disease, change the food immediately. Indigestion is always followed by liver trouble if it is not remedied which finally results in serious bowel trouble that produces death in most instances.

Sprouted oats make an excellent ration for the laying poultry.

The "best" strain of poultry usually is the one that receives the best care.

POINTERS.

—Buff Orpington cockerels are advertised for sale by R. W. Halford, Manning, Iowa, on page 28.

—Buff Wyandotte cockerels of the large strain are advertised for sale by J. M. Sheehan, Stuart, Iowa, on page 28.

—Mrs. C. F. Sealock, Route 5, Neola, Iowa, offers choice Barred Plymouth Rock cockerels for sale at prices named in her advertisement appearing on page 28.

—Heavy-boned Black Langshan cockerels are advertised for sale, singly or in lots of six, by J. H. Rayl, Afton, Ia., in his advertisement that appears on page 29.

—Tom Sellers, Vinton, Iowa, will guarantee the quality of his Rose Comb Brown Leghorn cockerels that he is offering for sale in his advertisement on page 29.

—H. A. Hamilton, Yutan, Neb., has some choice Crystal White Single Comb Orpington cockerels that he is offering for sale in his advertisement that appears on page 28.

—William Meyer, Blue Earth, Minn., has seventy-five Barred Plymouth Rock cockerels and fifty Mammoth Pekin ducks which he is offering for sale in his advertisement on page 29.

—Quality considered, Chas. McCaskey, Ogden, Iowa, guarantees the price of the Barred Plymouth Rock cockerels, quotation of which is found in his advertisement appearing on page 28.

—Big-boned, farm-raised Black Langshans, unscored, are offered for sale by Alex Peterson, Pomeroy, Iowa, in his advertisement that appears on page 29. Mr. Peterson guarantees satisfaction.

—If desiring to purchase choice cockerels, either Single Comb Buff or White Orpingtons, the advertisement of Mrs. Roy McMullen, Hume, Ill., that appears elsewhere on page 28 will be of interest.

—Anyone wanting Buff turkeys would do well to write Mrs. L. C. Dennison, Monmouth, Ill., as she advises us that she has some fine birds for sale. They are large and pure buff and were awarded first premium at the Warren

Only $6.75 And Up

Brings you the world's most famous hatching machine—the incubator with 18 features of superiority—the one that's first in hatching more chicks, larger chicks, sturdier chicks—the most efficient and reliable machine under all conditions—the incubator that's backed by the strongest guarantee ever placed behind a hatching machine.

Don't delay but order a Successful today. You have everything in your favor by starting in the money-making poultry business with my

SUCCESSFUL
INCUBATORS — BROODERS
(Life Producers) (Life Preservers)

I will even go so far as to give you a

$25 Poultry Course FREE

with each machine. This course contains the most practical advice ever given. It tells how to produce poultry and eggs at lowest cost, explains how to sell them to best advantage; in fact takes you from the beginning to end of the business, revealing everything necessary to insure you a big success. Don't delay another day but write NOW for my

Successful Catalogue—FREE

My book tells you about various incubators and brooders. It gives you a good idea of the advantages of each, what size to buy, etc. It is free from all exaggeration and tells you just what steps need to be taken to make good money from the very beginning. Write NOW, before you lay the paper aside.

DES MOINES INCUBATOR COMPANY
50 Second Street Des Moines, Ia.

Note—Our famous little booklet "Proper Care and Feeding of Chicks, Ducks and Turkeys," Sent for 10c, but our big catalog is free. Send for it.

Ask about our thoroughbred poultry and eggs for hatching at lowest prices.

Our 1913 Poultry Book

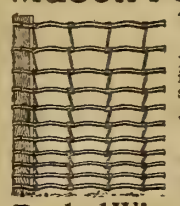
IT'S FREE—the most complete and practical guide to money-making poultry raising yet published. *Eight new special chapters*—worth hundreds of dollars to you. 244 pages actual experiences, illustrations, advice.

CYPHERS Incubators and Brooders

World's Standard Poultry Equipment. Book tells about Cyphers Company's Free Bulletin and Personal Letter Service. Prepare for *America's greatest poultry year*—highest prices, low cost production. Send postal for Big Free Book today. Address

Cyphers Incubator Co., Dept. 42, Buffalo, N. Y.

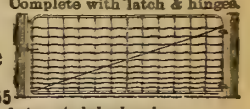
Mason Fence & Gates



11 BAR 49 in. FENCE 24c A ROD

Best high carbon, rust-resisting, coiled steel wire. Easy to stretch over hills and hollows

Steel Farm Gate
4x10 Ft. each only $2.95
Complete with latch & hinges.



Barbed Wire
80 Rod Spool $1.55

Buy direct from factory at wholesale prices.
FREE Catalog of fences, gates, tools, etc. Write today to box 53. Mason Fence Co., Leesburg, O.

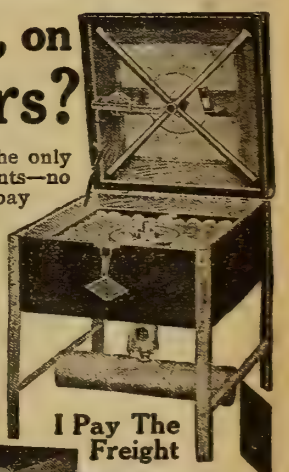
Beauty Among The Roses For You...

This beautiful 1913 calendar is lithographed in ten colors and is by far the prettiest calendar published. The picture gives you only a very faint idea of its beauty. It will be an ornament to any home. Given with a year subscription to People's Popular Monthly for only 30 cents. Our supply is limited. Order now. Dept. D.

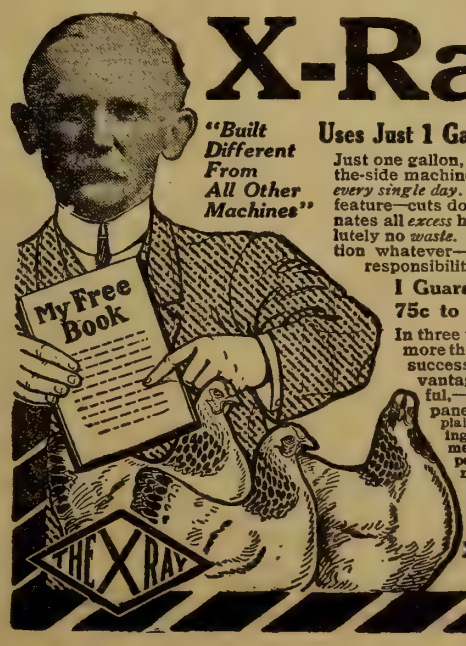
People's Popular Monthly
Des Moines, Iowa

Will You Send For My New Free Book No. 41, on X-Ray Incubators and Brooders?

LET me tell you why the X-Ray is the best machine for *you!* My X-Ray Incubator is the only *improved* one on the market. It is shipped *direct* from my factory to you. No agents—no dealers. Guaranteed to please—your order filled the same day received. And I prepay the freight. Free book tells all. I put a big lamp *underneath*—square in the center—and *not* on the side! This makes an absolutely even temperature in egg-chamber *all the time*. No cold side or corners. Fill this tank *just* once, then forget about it till *next* hatch. Other machines have to be filled *every day!* The famous



X-Ray Incubator



"Built Different From All Other Machines"

Uses Just 1 Gal. Oil to Hatch—Requires Only 1 Filling of Lamp!

Just one gallon, that's *all!* The old-fashioned lamp-on-the-side machines use 3 to 5 gallons and have to be filled *every single day*. My automatic trip—an exclusive X-Ray feature—cuts down the flame *at the burner*. This eliminates all *excess* heat, smoke and smell. And there's absolutely no *waste*. My X-Ray regulator requires no attention whatever—it is purely automatic and takes all responsibility from *your* shoulders.

I Guarantee to Save You From 75c to $1.25 on Every Hatch

In three year's hatching I can save you more than what you paid me for my ever-successful X-Ray machine. The advantages of this machine are wonderful,—X-Ray has two double-glass panels on lid so thermometer can be plainly seen at any time—without chilling or disturbing eggs. To use my X-Ray means less handling of eggs, less oil expense, less heat generated, no waste, no fumes, no dirty, mussy lamp to be filled every day. Women, especially, prefer the X-Ray—it is nice and clean, so sanitary. Yours truly,

J. H. KATE, President,
X-RAY INCUBATOR CO.
Wayne, Nebraska

The X-Ray Brooder is Guaranteed to Raise Every Chick Worth Raising

Built with same perfect heating system as my famous X-Ray Incubator. Affords the best kind of a home for little chicks. Gives them plenty of light, air and ventilation. Four windows, all slide to ventilate. A better home than the old hen herself. Write me *today* for Factory-direct price on X-Ray Incubator or Brooder. Address me personally, J. H. Kate, Prest.

Date.....

J. H. Kate, President, X-Ray Incubator Co., Wayne, Nebr.
Dear Sirs: Send me by return mail your new Free Catalog #41 on X-Ray Incubators and Brooders.

Name.....
Town.....
State.....
R. F. D.....

Lice Proof Nests

Galvanized Steel

Keep your hens happy and laying by keeping them free from profit killing lice and mites with

KNUDSON Galvanized Steel Lice Proof Nests

These wonderful, sanitary, *patented* nests can't get out of order—last a life time and earn their cost many times over.

Regular price $3.90, set 6 nests—special introductory price $3.60; 3 sets (18 nests,) $10. Write for our *free* catalog, Gal. Steel Brood Coops, Runs, Chicken Feeders, etc. KNUDSON MFG. CO., Box 483 St. Joseph, Mo.

140 EGG INCUBATOR and 140 CHICK BROODER

The incubator is California Redwood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. **30 Days' Trial**—money back if not O. K. Write for **Free** Catalog today.

Both For $10

Freight Paid East of the Rockies

Ironclad Incubator Co., Dept. 59 Racine, Wis.

WYANDOTTES.

White Wyandottes. My Great Laying Strain

SOME good cockerels at $2 each as long as they last. A few higher. Fine pullets and hens at $1.50 each as long as they last. A few higher. I can mate up pairs, trios and pens to please. My White Wyandottes are bred for beauty and laying quality combined, and if beauty and a good laying strain is desired I certainly can please. Please order direct from this ad, otherwise write me stating just what you want. Why not order today, the breeding season will soon be here. **S. Harr, Riverside, Iowa.**

PURE-BRED WHITE WYANDOTTE COCKERELS

SCORED and utility stock. Also white Holland Turkeys. Eggs in season. Address **A. J. MENEFEE, ADAIR, IOWA.**

A. L. Anderson

Breeder of GOLDEN AND SILVER LACED WYANDOTTES, high-class **Indianola, Iowa.** 20 miles south of Des Moines.

BONNIE VIEW WHITE WYANDOTTES

THE kind that lays the year around. Fine color and size. Eggs in season. A few extra large Pekin ducks. Mrs. N. W. Burbank, New Sharon, Iowa.

Faha's Silver Laced Wyandottes

BEST in America. Winners at New York, N. Y., Philadelphia, Pa., Little Rock, Ark., etc. Write for catalog. Frank Faha, Jr., Box 620, Dyersville, Ia.

50 Silver Wyandotte Ckls. Farm raised, from prize-winning stock. Score cards by J. L. Todd. Circulars free. Prices reasonable. John A. Johnson, R. 2, Pilot Mound, Iowa.

Large Strain of Buff Wyandotte Cockerels

FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

100 WHITE WYANDOTTES AT $1.50 GOOD ONES

Satisfaction guaranteed. A few yearling hens, balance pullets and ckls. Guy J. Pote, Bridgewater, Ia.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

50 W. Wyandotte cockerels and 50 S. C. Buff Orpington cockerels. They are all good, farm raised stock, weighing up to 9 pounds. Prices reasonable. Address **A. G. Dreher, Audubon, Iowa.**

SILVER Wyandottes exclusively. Bred for winter laying from prize winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

PARTRIDGE WYANDOTTES. The Beauty breed. Some choice ckls. for sale. Eggs in season. If you want good stock write H. Nobiling, Perry, Iowa.

PARTRIDGE WYANDOTTES 50 cockerels, 50 pullets. Buff Wyandottes, cockerels and trios. Prize winners. Thos. L. Morlan, Indianola, Ia.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address **R. B. Rowe, Indianola, Iowa.**

WHITE WYANDOTTES ONLY. Can furnish pens not akin, pullets $1 up, cockerels, $1.50 up. Address J. F. Wilson, Downey, Ia.

SILVER Laced Wyandottes, scored cockerels, hens and pullets for sale. Blue ribbon and cup winners at Dubuque, Dec., 1912. Herm C. Ransom, Ionia, Ia.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

WHITE WYANDOTTE COCKERELS $3, $2, $1.50 each. Mrs. Geo. F. Pierce, Route 4, Sac City, Iowa

White Wyandotte Cockerels $1.50 each. A few Muscovy ducks $1 and $1.50 each. Mrs. T. W. Glass, R. 5, Sac City, Ia.

BUFF WYANDOTTE COCKERELS Farmer's fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

50 White Wyandotte ckls. $1 each, scored birds $1.50 to $2. Good, heavy-boned, typical shaped fellows. Ethel H. Shaw, Monroe, Iowa.

SILVER Laced Wyandotte ckls. for sale. Owing to change in location must close out early at prices that will take them. S. R. Young, Greenville, Ia.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

county (Illinois) poultry show last week. See advertisement on page 29.

—Read the advertisement of Mrs. T. M. Neal, Bristol, Iowa, offering turkey toms for sale, that appears on page 29 of this issue.

—If wanting strong, vigorous Rose Comb Rhode Island Red cockerels or Ancona cockerels, hens or pullets, the advertisement of J. E. Kafer, Rolfe, Iowa, appearing on page 29 of The Homestead, will be of interest.

—Mrs. H. A. Wohlsdorf, Lawler, Ia., is offering White Holland turkey hens and toms and Single Comb Black Minorca hens, pullets and cockerels, not related, at very moderate prices in her advertisement that appears on page 29 of The Homestead.

—R. R. Stewart, Charles City, Iowa, has been a breeder of Rose Comb Brown Leghorns exclusively for the past fifteen years. He is quoting prices on cockerels, pullets and hens, and also eggs, in his advertisement that appears on page 29 of The Homestead.

—"We have a choice lot of Mammoth Bronze turkey toms and pullets," write Ring Bros., Newton, Iowa, in furnishing copy for their advertisement on page 29. "Our Barred Plymouth Rock cockerels are all of good size, bone, frame and plumage. We ship nothing but choice birds. Write for description."

—"The Single Comb Buff Orpington cockerels we are offering for sale," writes the Evergreen Poultry Yards, Waterloo, Iowa, in sending in copy for advertisement on this page, "are from our extra heavy-laying strain and are an even shade of golden buff from head to tail. They are extra large, weighing eight and nine pounds each, with heavy bone. They will be priced reasonably."

—Mrs. W. E. Zimmerman, Neola, Ia., who has been advertising Single Comb Buff Orpington cockerels for sale, writes under date of January 17th as follows: "Discontinue my advertisement in The Homestead for a little while, as I am all sold out of cockerels. I want to use my space in the near future for advertising my eggs. It pays to advertise in The Homestead, for it does the business."

—We desire to call the attention of our readers to the advertisement of S. Harr, Riverside, Iowa, that appears on this page of The Homestead. Mr. Harr is a breeder of White Wyandottes and at this time is quoting prices on some good cockerels, also on pullets and hens. He can mate pairs, trios and pens. His White Wyandottes are bred for beauty and laying qualities combined. In writing him state just what is wanted.

—The advertisement of Henry G. Walker, Iowa City, Iowa, breeder of Rose Comb Rhode Island Reds exclusively, appears on page 29 of The Homestead. Mr. Walker proposes to ship stock and eggs on approval and a score card will be furnished with each bird sold. He also will give customers the privilege of examining stock before accepting same. As to his reliability our readers are invited to inquire of any bank or business firm in Iowa City.

—The Elmwood Poultry Farm, Blairsburg, Iowa, in sending copy for advertisement found on page 29 of The Homestead, write: "For a number of years we have found The Homestead a splendid medium for disposing of our stock and we now come with a fine lot of good, thrifty, farm-raised Rose and Single Comb Black Minorcas and Langshans for sale. Our birds have been first and second-prize winners at several shows this winter. Our Single Comb Minorcas were silver cup winners at Ottumwa. Our prices are reasonable."

—M. V. Leeper, Redfield, Iowa, has an advertisement of Barred Plymouth Rocks and Bronze turkeys on page 29 of The Homestead. In furnishing copy Mr. Leeper writes: "I took my scales and went into my cockerel house this morning and picked and weighed cockerels until I was satisfied that I had nothing weighing less than seven and one-half pounds, and lots of them weighed up to ten pounds. I will guarantee the weight of every bird I ship. I only have a few toms, but they are extra large fellows, easily worth the money I am asking."

—Silver Laced Wyandottes are offered for sale by the Trio Poultry Farm, Des Moines, Iowa. Mr. McDonald, proprietor of the Trio Poultry Farm, is a genuine poultry fancier and looks after and attends to the care and mating of these birds personally. Readers of this paper can rest assured that their wants will be personally looked after and satisfaction is guaranteed. Be sure and direct all letters to the Trio Poultry Farm, as there are other McDonalds, but if directed to the Trio Poultry Farm it will be sure to reach them and will be promptly attended to.

—Edward Meyer, Dyersville, Iowa, whose advertisements, one of Pekin ducks and the other of White Partridge Wyandottes, appear under their respective headings in this department, writes: "I took first prize at Vinton, Iowa, on Pekin young drake and first on duck. I also took first on Partridge Wyandotte cockerel, first and second on hen and third on pullet. I have a very fine flock of Partrige Wyandottes, cockerels scoring up to 93 and pullets scoring up to 93 for sale at reasonable prices. These Wyandottes are of a good laying strain. My pullets are nearly all laying now and laid early last fall. They are nearly all up to the standard weight and over, have the right shape and are marked well. My flock of Pekins is also very

MAKE BIG MONEY PULLING STUMPS

Pull the stumps from your fields and replace them with big crops. Don't pay taxes on idle land.

The Hercules All Steel Triple Power Stump Puller

pulls an acre of stumps a day. Pulls biggest stump in 5 minutes. Guaranteed against breakage for 3 years. 30 days free trial. Send name for book, free—and special low-price offer. Address Hercules Mfg. Company, 941 21st St., Centerville, Iowa. U. S. A.

PLYMOUTH ROCKS.

EVERGREEN LAWN FARM

M. HUMMEL, Proprietor, MONROE, IOWA,

Has for sale 200 Barred Plymouth Rocks with large bone, finely barred, from high-scoring, first-prize-winning stock. We won 37 prizes at our last showings.

BUFF ROCKS

SPECIALTY breeder and exhibitor for 15 years. Choice cocks, hens and cockerels for sale. Write stating just what you want, what price you will pay and I am sure I can please you for I have the quality. Address **M. E. KRAFT, Brooklyn, Iowa.**

BUFF PLYMOUTH ROCKS

BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address **J. O. KOERTH, - Ionia, Iowa.**

WHITE PLYMOUTH ROCK COCKERELS

WEIGHING 6 to 9 pounds each, with good color, nice yellow legs, good combs and eyes. They are good enough to show. At $2, $3 and $5 each. Address Chas. L. Berry, R. 6, Iowa City, Iowa.

Big Barred Rock Cockerels

200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address **Theo. Martin - - Bellevue, Iowa.**

WHITE ROCK COCKERELS FOR SALE

SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Berwick, Iowa.

WHITE ROCK COCKERELS

STRICTLY high-class. Now is the time to place your order for cockerels. Priced at $2.00 to $3.00 each. **Money back if not suited.** Address, **JOHN W. HOUSELOG, Bellevue, Iowa.**

"PARTICULAR" BARRED PLYMOUTH ROCKS

THE winning and laying kind. Cockerels $2.00, $3.00 and $5.00 each. Large bone, clear color, deep, narrow barring. Mated trios $5.00 and $8.00; pens $10-$14. Birds returned at my expense if not satisfactory. Address J. M. Detwiler, R. 2, Dunlap, Iowa.

COCKERELS Standard bred Barred Plymouth Rock. Best line bred birds sold on approval at $2, $3, $5 and $10 ea. These are good ones. No better blood. A. W. Nickols, 215 W. Ashland Ave., Indianola, Ia.

60 BUFF ROCK COCKERELS for SALE

at $1.50 to $5.00. Some splendid birds. Also choice pullets. Address Mrs. P. J. Eggers, Denison, Iowa.

BARRED PLYMOUTH ROCKS FOR SALE

200 B. P. Rocks that will please in quality and price. Large and evenly barred. Try us for a square deal. **C. G. GOOD, Ogden, Iowa.**

Barred Plymouth Rock Ckls. and pullets from winners at leading shows. Large birds, fine egg records, from $1 to $5 and satisfaction guaranteed. Address J. F. Davidson, Lamont, Iowa.

BUFF PLYMOUTH ROCKS Best breeding. Fine birds. Cockerels $1.50. Pullets $1.00. Eggs $1.50 for 15. W. M. Black, Knoxville, Ia.

BARRED R. ckls. $3 up. Guarantee price right quality considered. Feathers from any section sent on request. Chas. McCaskey, R. 2, Ogden, Ia.

CHOICE Plymouth Rock cockerels. First premium at our county fair. All prices to suit buyers. Address **H. E. SANDEN, OGDEN, IOWA.**

CHOICE Barred Plymouth Rock ckls. for sale. Well barred, from good laying strain. Prices $1.50 to $3 each. Mrs. C. F. Sealock, R. 5, Neola, Iowa.

FINE White Rock cockerels from large, farm-raised, prize-winning stock, at reasonable prices to quick buyers. Mrs. Jas. Pedley, Britt, Iowa.

FOR SALE---W. P. Cockerels at $1.50 Each.

Address Moncrief Bros., Center Junction, Iowa.

POINTERS—I have some of the best Buff Rock cockerels I ever raised. Fine, large, healthy birds. Prices right. Address C. J. Henline, Garwin, Iowa.

Barred Plymouth Rock Cockerels Some fine pen headers for sale. Write **Chas. E. Nelson, Boone, Iowa.**

FOR SALE.---White Rock Cockerels. Price $1 to $3 each. Address Mrs. Myrtle Carter, Panora, Iowa.

BUFF ROCK Cockerels $2. $1.50 each in lots of two or more. Bred from state fair and state show winners. Address C. & C. T. Van Lint, Pella, Iowa.

W. P. ROCK Cockerels, White Holland turkeys and Embden ganders for sale at reasonable prices. S. M. Compton, R. 3, Newton, Iowa.

BARRED Plymouth Rock Ckls. Large, well barred, healthy birds. Good laying strain. Reasonable price. Mrs. J. H. Heilman, R. 4, Holstein, Ia.

WHITE ROCK cockerels and pullets $1.00 each. Scored birds scoring 90 to 94, $1.25 to $2.00, from prize winners. Mrs. G. W. Shaw, Monroe, Iowa.

Barred P. Rocks A fine lot of big ckls., even, narrow, deep barred. Also pullets and hens. Best breeding and quality. Orville Jones, York, Neb.

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

W. P. Rocks. Best layers and payers; exhibition and utility stock for sale. Blue Ribbon winners. Write for prices. F. E. Ristrim, Stanhope, Ia.

PLYMOUTH ROCKS.

250 BARRED PLYMOUTH ROCKS FOR SALE Large-boned, nicely marked, sires scoring 90 to 92¼ in show. A few good M. B. turkeys for sale. Large boned and nicely marked. In seven show rings I won 38 1st, 19 2d, 4 3d, 3 4th, 2 5th. Nothing but first-class stock shipped. Prices reasonable. Address J. W. Wagner, Monroe, Iowa.

BARRED ROCK COCKERELS

AS good as they grow. All bred from our Des Moines and state show winners. Heavy bone, fancy color. Prices $2.00 to $5.00. Satisfaction guaranteed. Address **MASON C. OGG, Monroe, Ia.**

FOR SALE WHITE and PARTRIDGE Plymouth Rocks of the best strains, good size, shape and color. Before you buy write me. My prices are right for quick sale. Address **BERTEL HANSEN, Alta, R. 2, Iowa.**

100 PURE BRADLEY B. P. R. Ckls. $1 to $5 each, some sired by 1st and color special cock at Des Moines show. Also 75 ckls. bred pullets by same sire. W. E. Ruffcorn, Defiance, Iowa.

B. P. ROCK CKLS. Big heavy-boned fowls from excellent foundation. Choice markings. $1.25 to $2.50. Address **F. R. BARRETT - CADAMS, NEB.**

HIGH-scoring 30 choice B. P. Rock ckls., a fine lot of big, even, narrow, deep barred. Have raised them for 15 years. Price $1.00 to $2.00 each. Address Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

FOR SALE Extra fine Barred Plymouth Rock ckls. Weight 6 to 9 lbs. Mrs. W. S. Kern, Plainfield, Ia.

BARRED ROCK COCKERELS Well bred, fine laying strain, $1.00 to $2.00 each. **Mrs. W. F. Bohlander, Avoca, Iowa.**

FOR SALE White P. Rock ckls. and hens. Good birds, farm raised. Prices from $1 to $3. Address Mrs. L. W. Fischer, Onawa, Iowa.

CKLS. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

ORPINGTONS.

White Orpingtons

KELLERSTRASS strain. Extra fine deep bodied, heavy-boned birds. Choice cockerels for sale now. $1.50 each. Also eggs a little later. Address at once **J. T. R. Nash, Minden, Nebraska.**

Fortmann's Single Comb White Orpingtons

ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once **Frank Fortmann, Box 23, Dyersville, Iowa.**

SINGLE COMB BUFF ORPINGTON COCKERELS

FOUNDATION stock cost from $35 to $50 each. They are as good as possible to secure. While they last $5.00 each. John T. Stadler, Minden, Neb.

300 S. C. Buff Orpington cockerels and pullets, $1.50 and $3 each. A few exceptionally good birds at $5. Our Buffs won 16 premiums at Marshalltown poultry show. H. Cavell, Haverhill, Iowa.

30 BUFF ORPINGTON COCKERELS

I AM offering 30 choice ckls. for sale; popular prices if ordered at once. R. W. Halford, Manning, Ia.

SINGLE Comb Buff Orpington ckls. for sale. Pure-bred, scored stock. These birds score 90 and up at $5 each. Mrs. Alice Goodman, R. 2, Emerson, Ia.

S. C. BUFF and White Orpingtons, Cook and Kellerstrass strains. Few choice cockerels for sale at $2 and $3 each. Mrs. Roy McMullen, Hume, Ill.

Choice Crystal White Single Comb Orpington Ckls.

Kellerstrass strain. H. A. Hamilton, Yutan, Neb.

WHITE ORP'NGTON COCKERELS $2 to $10. Eggs and chicks. Describe your flock. White Wing Poultry Farm, C294, Perry, Ia.

Choice S. C. Buff Orpington ckls., large golden buff birds. Owens' strain. Reasonable prices. Evergreen Poultry Yards, R. 4, Waterloo, Iowa.

CRYSTAL WHITES direct from Kellerstrass ckls. $2, $3, $5. Trios and pens. Eggs, $8 per 100. Also S. C. Buffs. Orpington Farm, Big Rock, Ill.

CLOSING-Out Sale. W. Orp. Ckls., hens, pullets. Low down, blocky. Bargains to move them. Kellerstrass strain direct. F. L. Reinhard & Son, Ottumwa, Iowa.

COCKERELS, Kellerstrass S. C. White. Bred direct from 1st prize winners at Omaha, Sioux City. Nettie Crane, 2114 Ave. C, Council Bluffs, Ia.

EGGS S. C. Buff Orp., 4 club specials, 16 prizes. 3 pens, $10, $5, $3.50; 2 utility flocks, $1. Mating list ready Jan. 15th. E. N. Silker, Epworth, Iowa.

DUCKS.

30 Good Drakes Left

SIRED by drakes weighing 10-11 pounds, dams 9 pounds. Scored from 95 to 97, $2 each, three for $5. Address **JOHN M. HALL, Williams, Iowa**

I. R. ducks, both fawn and white, and the English penciled. Special prices on eggs for Feb. and March orders. Nishna Collie Kennels, Oakland, Ia.

FAWN and White I. Runners. Unrelated trio $5. Females $2 each. Write for prices on high-scored drakes. Address Mrs. C. A. Robinson, Griswold, Ia.

INDIAN RUNNER DUCKS $1.50 each. Rheinhard strain. Address **Mrs. G. W. SHAW, Monroe, Iowa.**

INDIAN RUNNER DUCKS and Toulouse Geese Ducks $1 to $1.50; geese $2, ganders $2.50. Elsie McKibben, Hazleton, Iowa.

PEKIN DUCKS Extra large No. 1 laying strain. Hens, $1.50; Drakes, $1.50; young 9-lb. drakes, $3. Mated trio, $4.50. Edward Meyer, Dyersville, Ia.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
EXCLUSIVELY.
STOCK AND EGGS SHIPPED ON APPROVAL
Score Card by Shellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city. HENRY G. WALKER, IOWA CITY, IA.

R. C. RHODE ISLAND REDS
I STILL have a number ot those large-boned, vigorous, farm-raised cockerels for sale, bred from a heavy laying, prize-winning strain, Scored and unscored. Write me for prices on eggs and baby chicks before you place your order for the coming season. Two pens headed by 1st prize winners, besides a fine farm range flock. Prices low as the lowest. Address H. E. HUSTON, Iowa Falls, Iowa.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

S. C. R. I. RED COCKERELS
A FEW fine breeders left at $2 up. If you need some good even Reds, write today. Address L. G. Johnson, Box H, Steamboat Rock, Ia.

S. C. Reds, Brilliant Red Strain
LARGE bone, vigorous cockerels, $2, $3 and $5 each and up. Females $1 to $5. Trios and pens, $10 to $25 Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

R. C. RHODE ISLAND REDS
Big-bone, vigorous cockerels at reduced prices. Baby chicks and eggs. F. N. Blake, Maquoketa, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

ROSE C. Red ckls. $2.50, 3 cock birds $3 each. Strong, vigorous, dark red birds. Ancona ckls., hens, pullets $1.50 to $3. Eggs March 1st. J. E. Kafer, Rolfe, Ia.

R. C. R. I. Red ckls. Fine looking, pure-bred birds, large boned, heavy weight, scored. Prices reasonable. Miss. Maggie Henning, R. 1, Ira, Jasper Co., Ia.

REMOVAL SALE Sold my place and will sell S.C.R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

CHOICE R. C. R. I. RED COCKERELS Deep red. Early hatch $1.50 up. Address Earle Welch, Kanawha, Iowa.

R. I. REDS (Both combs) Exhibition and breeding males and females for sale at $1.50 and up. Address W. I. Mouser, R. 5, Red Oak, Iowa.

50 S. C. R. Red ckls. $1 each. Birds scoring 90 to 93 $1.50 to $2 each. From heavy laying, typical shaped strain. Jennie Efnor, Monroe, Iowa.

R. C. R. I. RED COCKERELS for sale. Prices reasonable if taken soon. Address Mrs. W. T. Davis, Truro, Ia.

DEEP RED R. C. R. I. Red eggs for hatching after March 1st. One pen of 7 pullets and ckl. S. C. Reds for sale. Mrs. Charles Belz, Conrad, Iowa.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

CHOICE S. C. R. I. RED COCKERELS
Write your wants. Mrs. Sophia Rader, Laurel, Iowa

LEGHORNS.

Rose Comb Brown Leghorns
EXCLUSIVELY.
15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $5; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

A Choice Lot of Rose Comb
BROWN LEGHORN cockerels for sale at Pike Timber Stock Farm. EGGS IN SEASON. DAVENPORT & MACK, Belmond, Iowa.

SINGLE COMB BROWN LEGHORN
Cockerels and hens. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. J. A. PENN, Phone 87, ALTA, IOWA

S. C. W. LEGHORNS Cockerels for sale. Vigorous, free range stock. Scored birds $1.00 to $5.00. Eggs in season. Address W. C. Kimball, R. 1, Shelirock, Iowa.

HIGH SCORE S. C. B. Leghorn ckls. 91 to 93½. Some unscored. My price is low. AUG. SCHRAGE, Bristow, Ia.

CHOICE heavy laying strain S. C. W. Leghorns at $15 to $18 per doz. These are choice breeding stock but as we are moving to Lisbon, Iowa, must sell. Address C. H. DRAKE, Hazelton, Iowa.

COCKERELS S. C. W. Leghorn, $1.00 to $2.00 each, 6 for $5.00 if taken soon. Ringlet Bar Rocks $1.50 to $5.00. Satisfaction guaranteed. Address J. Russell Lang, Brooklyn, Iowa.

ROSE COMB BROWN LEGHORN Cockerels. Choice birds, $1 each. Quality guaranteed. Address Tom Sellers, Vinton, Iowa.

FOR SALE COLLIE PUPS, S. C. B. Leghorn cockerels, $1 each or 6 for $5. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. E. Buff Leghorn Cockerels for sale. Prices reasonable if taken soon. Mrs. Hester Musselman - Truro, Iowa.

R. C. B. LEGHORNS Cockerels, choice, healthy birds, excellent laying strain, $1 each, 6 for $5. E. E. Snively, Jefferson, Iowa.

R. C. White Leghorns. A choice lot of pure white cockerels $1.25 each. Three or more, $1 each. Eggs in season. Mrs. Geo. H. Tutt, Marathon, Iowa.

S. C. W. LEGHORNS. Young's strain, unscored $1, others scoring to 94½ points. Eggs $5 per 100. Mrs. Wilson McIntyre, Red Oak, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. F. Bollman, Wall Lake, Ia.

FOR SALE CHOICE LOT OF S. C. W. Leghorn Cockerels. Address MRS. S. J. PHILSON, - Harlan, Iowa.

fine. The young drake, the prize winner, weighed ten pounds."

—White Holland turkeys of both sexes of the Elephant strain will be sold at right prices to Homestead readers by Mrs. J. H. Hanlon, Lawler, Ia., as per her advertisement that appears on this page.

—In an advertisement on this page R. V. Keeney, Fair Ground Station, Des Moines, Iowa, announces that he wants to buy thoroughbred poultry, turkeys, ducks and geese. Those who have surplus fowls will do well to write him.

—Mrs. E. S. Kelley, Farmington, Iowa, advertises big Embden geese on this page of this paper. Geese are the healthiest domestic fowls, as well as the most profitable. For prices and descriptions write to the address named.

—Pure-bred White Wyandotte cockerels, scored and utility stock, also White Holland turkeys, are advertised for sale by A. J. Menefee, Adair, Iowa, in his advertisement that appears on page 28 of The Homestead. Mr. Menefee will also be able to supply Homestead readers with eggs in season.

—Mrs. N. W. Burbank, New Sharon, Iowa, in furnishing copy for her advertisement on page 28, writes: "I still have a few fine Bourbon Red turkeys and all of my customers have been well pleased with those that I have sent them. My White Wyandottes are noted for their fine color, size and good laying qualities."

—The advertisement of Mrs. W. S. Kern, Plainfield, Iowa, offering extra fine Barred Plymouth Rock cockerels for sale, appears on page 28. She writes that the most of these have good combs, yellow beaks and legs with good barring. Her cockerels weigh from 6 to 9 pounds, and they will be sold at prices that will suit her customers.

—Mrs. Wilson McIntyre, Red Oak, Iowa, writes: "I have the finest flock of Single Comb White Leghorns I have ever raised. They are from D. W. Young's strain. Scored cockerels at from $1.50 to $5. They are related to my Omaha and Villisca prize winners. I am booking orders now for eggs and baby chicks." See her advertisement on this page.

—Mrs. Jas. Pedley, Britt, Iowa, whose card appears on page 28 advertising White Plymouth Rock cockerels, has successfully raised this breed for over fifteen years, which experience has resulted in the production of some especially fine poultry. She now has a few choice cockerels left for sale, and since they are not scored will sell them at very reasonable prices. Mrs. Pedley's birds from the same strain have scored 94, having won many blue ribbons. These cockerels weigh seven and eight pounds and cocks nine to eleven pounds. It is a good chance to buy first-class stock cheap.

DOGS.

SCOTCH COLLIE PUPPIES
HIGH-class puppies, the best blood in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. T. A. STEVENSON, SHANNON CITY, IOWA

Collies Choice pups and brood bitches, trained drivers. Sales list free. AIREDALES, for hunters, watch dogs, companions, have no superiors, state your wants. P. L. Savage, St. Charles, Ill.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

FOR SALE. A few female Collie pups from reg parents that are natural heelers. Are ready to go to work. E. M. Filson, Birmingham, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

GEESE.

TOULOUSE GEESE B. P. R. cockerels. I am offering 100 choice B. P. Rock cockerels, Easton-Shellenbarger-Thompson strains $1 to $2, P. B. Rock hens and pullets for sale at $12 a dozen. 25 Toulouse Geese, very choicest. Ganders and hens. Won first and second at Sioux City show. James Cockerton, Whiting, Ia.

The Big Embden Geese
MONEY-MAKERS. Eggs, feathers and meat. What will beat it? No disease and the quickest growth of all land or water fowl. Write today MRS. E. S. KELLEY, Farmington, Iowa.

BRAHMAS.

LIGHT BRAHMA COCKERELS
THEY have heavy bone and good markings. I have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address FRANK P. HEALY, Bedford, Iowa.

Light Brahma Cockerels
BETTER THAN EVER. Large, vigorous, well-marked birds. Eggs in season. Address FRANK A. JOHN, - Bedford, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls, and pullets for sale. W. W. Vaughn, Marion, Iowa.

MINORCAS.

BLACK MINORCAS Eggs in season, 15 for $2, 30 for $3.50, 50 for $5.00. Address H. L. Simpson, R. R. 13, Epworth, Iowa.

TURKEYS.

Mammoth Bronze Turkeys
WITH SCORE CARDS from 94 to 96¼. Also a few good Silver Laced Wyandotte cockerels. Address Mrs. D. C, Molesberry, Plymouth, Iowa.

MAMMOTH BRONZE TOMS sired by a 50-lb tom. A fine male collie. Registered Holstein cows. Address E. J. THOMAS, West McHenry, Illinois.

FOR SALE Pure-bred M. B. Turkey toms and hens choice of a flock of 160 sired by a 40-lb. tom large healthy birds. R. H. Coyle, Cascade, Ia.

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

Mammoth Bronze Turkey Toms for Sale. Fine birds. Mrs. T. M. Neal, R. 2, Bristow, Iowa.

FOR SALE Choice M. B. turkeys, toms and pullets. Also choice barred P. Rock Cockerels. Ring Bros., Newton, Iowa.

FOR SALE---Mammoth Bronze Turkeys Toms $5. Hens $3. At home. Mrs. J. C. Martin, R. 5, Manning, Iowa.

MAMMOTH BRONZE TURKEYS S. C. White Orp. cockerels, Barred Rock cockerels. Mrs. J. A. Campbell, Manning, Ia.

FOR SALE Pure-bred, white winged, Buff or Bourbon Red turkeys. Address Wm. Oakland, Blairsburg, Iowa.

BOURBON RED TURKEY TOMS $5 each and good ones. Come soon to get best. Mrs. Cora A. Hill, Orient, Iowa.

MAMMOTH BRONZE TURKEYS Toms $5, hens $3.50 from 40-lb. sire. Jennie Efnor, Monroe, Iowa.

BOURBON RED TURKEYS Toms, $5.00. Hens, $3.00. Eggs in season. Mrs. Allie Davis, Saline, Mo.

FOR SALE Pure-bred M.B. turkeys, sired by a 42-lb. yearling tom. Write for prices. Sam Thronson, R. 2, Lake Mills, Iowa.

BUFF TURKEYS A few extra fine toms and hens for sale. Mrs. L. C. Dennison, R. 3, Monmouth, Ill.

WHITE HOLLAND TURKEYS ELEPHANT strain. Both sexes. Prices right. Mrs. J. H. Hanlon, Lawler, Ia.

BOURBON RED TOMS at $5.00 each. Large, healthy big-boned kind with fine plumage. Address Mrs. Al. Minish, Voorhies, Ia.

BOURBON Red Turkeys. A few nice toms for sale. Good color, large bone and healthy $4.50 each. W. M. Peterson, Route 3, Corning, Iowa

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. Foster, Caldwell, Ohio.

FOR SALE Fine young M. B. toms from scored hens. Good size May birds. Clover Hill Stock Farm, Kellerton, Iowa

MAMMOTH BRONZE turkeys from stock sired by tom scoring 96¾. Toms $5, hens $3.50. Few Barred R. ckls. $1.25. Mrs. John Tucker, Birmingham, Ia.

White Holland Turkeys for sale. Big-boned, vigorous birds, reasonable prices. Mrs. J. H. Richardson, Bristow, Ia.

BOURBON RED TURKEYS FOR SALE. Big boned, strong and vigorous. Address Peter M. Sullivan, Brandon, Iowa

M. B. Turkeys White Wyandotte ckls. Pekin ducks. Prices right. Address Mrs. A. Kitson. Audubon, Iowa

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

Black Langshan Ckls. Scoring 90 to 95. Closing out. Guarantee satisfaction. Prices right. Address A. H. Koch, De Soto, Iowa.

EXTRA big-boned, glossy, black Langshans, black-eyes. Score 91 to 96. pullets, ckls., eggs. Satisfaction guarant'd. Osterfoss Poultry Farm, Hedrick, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

BLACK Langshan ckls. Big boned, farm raised. Satisfaction guaranteed. Unscored 3 for $5. Alex Peterson, Pleasant View Stock Farm, Pomeroy, Ia.

BLACK Langshan ckls., good, big, heavy-boned birds. Cockerels $1.50 each or six for $8.50. Eggs in season. Address J. H. Rayl, Afton, Iowa.

EXTRA BLACK LANGSHAN COCKERELS for sale, $2.00 each or 3 for $5.00. Eggs in season. Mrs. Sarah F. McKeen, Route 1, Sac City, Iowa.

BLACK LANGSHANS Winners at Keosauqua and Ottumwa, 1912. Choice ckls. $1.50 and $2.00. Bert A. Randell, Mt. Zion, Iowa.

BLACK Langshan ckls, scoring from 90 to 94½ winners at Iowa State Fair. These birds are large heavy-boned. Address A. Dearinger, Reasnor, Iowa

MISCELLANEOUS.

Barred Rocks. Bronze Turkeys
TOMS 23 to 26 pounds $5 and $6. B. P. Rock cockerels 7½ pounds $1.50 each; 8 pounds $2 each; 9 pounds $2.50 to $3.00 each; 9½ to 10 pound $4.00 each. Weights guaranteed. M. V. Leeper, Redfield, Iowa.

WANTED TO BUY Pure-bred poultry, turkeys ducks and geese. State variety, number you have and price in first letter R. V. Keeney, Fairground Station, Des Moines, Ia

WANTED TO BUY S. C. Rhode Island Red ckls., other varieties, also Pekin and I.R. ducks, Toulouse geese. Matthew Mertz, Des Moines, Iowa

WHITE H. TOMS $5 each. White guineas $3 pair. Toulouse geese $5 pair, from best prize winners in state. Ethel H. Shaw, Monroe, Iowa

MISCELLANEOUS.

Strater Bros., Monroe, Ia.
FOR SALE. MONSTER MAMMOTH BRONZE TURKEYS, sired by Iowa King, score 95, and 400 Barred Plymouth Rocks, sired by a son of the Chicago first prize winner, that have the size and quality. PRICES REASONABLE.

FINE THOROUGHBRED POULTRY
48 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 192b Annual Poultry Book. Address R. Neubert, Box 807, Mankato, Minn.

55 BREEDS
Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Collie Dogs. Send 4c for large Poultry book Incubator Catalog and Price List. H.H. MINIKER, Box 32 Mankato, Minn.

MAPLE RIDGE POULTRY FARMS Breeders of B. and W.P. rocks S. C. W. Orp., W. and P. Wyn., R. C. R. I. reds, B. C. bantams, Toulouse geese, P. and I. R. ducks, M. B. turkeys, W. guineas. Splendid lot youngsters ready for winter shows or breeders. Satisfaction guaranteed. Write. J. W. Mowery & Sons, R. 2, Hedrick, Ia.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

BRONZE TURKEYS AND PEKIN DUCKS
IF in need of turkeys or ducks of size and standard markings, write J. D. Smith, Montezuma, Iowa.

CHOICE M. B. TURKEYS Large, heavy-boned stock with splendid markings. Also Barred Plymouth Rock cockerels, finely barred, heavy weight, fine quality birds. Prices right. Address Mrs. H. J. Hess, R. F. D. 6, Waterloo, Iowa.

SINGLE COMB BROWN LEGHORN hens, cockerels and pullets, heavy-laying strain, 75c and $1 each; also White African guineas and White Holland turkeys. Satisfaction guaranteed. Edw. Dooley, Selma, Ia

40 B. P. ROCK and Golden Wyandotte ckls. Narrow barred and that have the quality. Also one million strawberry plants. Special prices to Homestead readers. J. L. Todd, R. 3, Des Moines, Ia.

FOR SALE 100 White Leghorn cockerels Young strain, and 100 White Orp. ckls., Kellerstrass strain, $1.50 to $3 each if taken at once. W. H. Mathews. R. F. D. 8, Sterling, Ill.

MY ENTIRE FLOCK OF BARRED ROCKS
and Mammoth Bronze turkeys for sale. Some prize winners. Address Mrs. P. L. Carroll, Hampton, Ia.

20 choice large bone and frame M.B. hens and pullets, markings extra good, Golden Bronze pure white edging, wts. 16 to 18; also few good B.P. Rocks. Cut prices for Jan. Mrs. Grant Gallaher, Spencer, Ia.

Bradley Barred Rocks and S. C. Reds
Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

75 Fine Barred Rock ckls. and 50 Mammoth Pekin ducks for sale. Write for prices. Address Wm. Meyer. R. 1, Blue Earth, Minn.

W. H. TURKEYS. Hens $3, toms $5. S. C. B. Minorca hens and pullets. Ckls. not related. $1 each while they last. Mrs. H. A. Wohlsdorf, Lawler, Ia.

Rose and S. Comb Black Minorcas. B. Langshans from our silver cup prize winners. Elmwood Poultry Farm, Blakesburg, Iowa.

WHITE Feather Poultry Yards has high-scoring W. Wyan., W. Holland turkeys. Kind that win. Book orders early. Mrs. C. F McLochlin, Gray, Ia

BUFF ORPINGTONS Golden and Silver Laced Wyandottes, hens, pullets, ckls., $1.00 each. Walter Brown, Shannon. Ia.

S. C. BROWN LEGHORNS B. P. Rock cockerels good stock. Write for prices. Address Ida Hepp, R. D. 1, Audubon, Iowa.

Silver Laced Wyandottes, Barred Rocks. White Crested, Black Polish, yearling and young stock for sale. Wm. Neiers, L. B. 45, Cascade, Iowa.

75 BARRED ROCKS and S. C. Reds from high-scoring, farm-raised stock, $2.00 to $3.00 each. Mrs. Jas. McNally, Victor, Iowa.

BLACK and W. Langshans, S. C. Buff Orpingtons, Light Brahmas, R. C. R. I. Reds, choice stock, prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

PARTRIDGE Wyandottes, Buff Orpingtons, Buff Rocks, good ones, from $1.50 to $5. State what you want and get it. Good Bros., Montezuma, Ia.

WHITE HOLLAND Turkeys, Barred Plymouth Rocks, Pekin ducks, extra large and from prize winners. Address Fred Post, Moulton, Iowa

R. C. B. LEGHORN Cockerels early hatched, 75 cents and up. I. R. drakes and ducks 75 cents and up. Mrs. G. W. Brockway, Clarksville, Ia.

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Embden geese. Mammoth Pekin ducks; reasonable. Mrs. M.W. Coan, Little Cedar, Ia.

R. C. WHITE ORPINGTONS BRED TO LAY. Mammoth Pekin ducks, Embden geese. P. F. Smith, Montezuma, Ia.

75 White P. Rock and Indian Game cockerels, large, strong, good shape and color, $1, $2 and $3. Address Hennessy Bros., Strawberry Point, Ia.

ROSE and Single Comb White Leghorns and Black Langshan cockerels for sale. Single bird $1.25 or 6 for $6. Address Joseph Kappes, Jr., Ashton, Iowa.

S. C. R. I. RED COCKERELS from scored stock, $1.50 each. Pencilled I. R. Drakes, $1. A. B. Walton, Wilton Junction, Iowa.

KELLERSTRASS C. W. Orp. and R. C. and S. C. Rhode Island Red ckls. Utility $1 each, choice ones $2 each. Mrs. T. A. Gough, Bristow, Iowa.

PEKIN DUCKS W. Wyan., choice, large stock, desirable breeders, sure to please. Write for what you wish. E. S. Dyas, Bellevue, Iowa.

THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

From time to time for several years past our circle has had the pleasure of talks from Miss Sarah Wood, of Anamosa, Iowa. From these talks I judged that our friend led a full life along lines that some of us are not as well acquainted with as we might be. Also a little bird whispered that it would be interesting for us to hear about The Pines, Miss Wood's home. And to add interest to these we induced our friend to give us her picture which we have pleasure in presenting.

Miss Wood's father and mother were among the easterners who settled in Iowa in the early days, and bringing with them the memories of a beautiful home they lost no time in beginning to make a beautiful spot of the unimproved farm land on which they settled. When Miss Wood tells us about The Pines we shall learn

MISS SARAH WOOD.

how well they succeeded, and how well their sons and daughters have carried on what they began. The only girl, it fell to Miss Wood's lot to make sunshine for her father as he slipped down the hillside into the Valley of the Shadow and to nurse her mother through years of invalidism. What plans and hopes she sacrificed on the altar of parental affection we may not know, but life has been good to her, she says, and as comrade and housekeeper to her two brothers time has given her many good things. One of them is the pleasure of travel and the collecting of souvenirs, shells, minerals, and Indian relics. Household duties, poultry and garden keep Miss Wood busy, but do not occupy all her time, for in answer to a question I asked she replied:

While I have led a busy life I have always made time to read and study. I am just finishing a three years' course of home study as outlined by the University of Chicago Correspondence School. Last winter we read Hume, Locke, Spencer, Huxley and Darwin, and I greatly enjoyed them all. I am fond of nature study and note down in my dairy the date of the first appearance in the spring of all the birds I can recognize and the date of their departure in the fall. I have a passion for trees and never go on an outing without bringing home new leaves to add to my "Nature book." I have never found country life humdrum; I have never allowed it to become so.

How could life be humdrum when added to the joy of useful work one has the joys of books, nature study, of travel and of the collector—not to mention the joys of comradeship with brothers and of a home such as Miss Wood will now tell us something of.

The editor invites me to step out from "the shadow of the pines" and tell "Among Ourselves" something about my home environment. Our house, a commodious fourteen-room one, is located quite a distance back from the public highway; a three-acre park, planted with a variety of trees, and set to blue grass is in front; an avenue fifty feet wide, with giant white pines on each side, leads from the road up to within twelve feet of the house and then stops at a terrace where stone steps and cement walks extend to the veranda. Wide cement walks lead around the house and out toward the barns. West of the house the terrace is on your left and cherry and pear orchards on your right. On the north a yard shaded with trees is met by an apple orchard of six acres, and the straight rows and symmetrical trees make a pleasant vista. When the dew like unstrung pearls is sparkling on the white clover and the apple blossoms are filling the air with their perfume, then the "lure of the orchard is strong," but deep down under the pines, where the fitful shadows come and go, is my favorite retreat. Here I played with the cones when a child. Here Spring first whispers that she is coming and the trees put on their first faint green. Down here the sun shines warm, wooing and coaxing out many a bud, here the willows put forth their catkins and mosses and lichens brighten up. The scent of the woods, when the sun warms the brown leaves, the fragrance of pine, hemlock and cedar and wild wood violets fill the air. Here the first note of robin and blue bird is heard and the scream of the jay rings out.

Here I my favorite authors read,
And think what a pleasant life to lead.
Each well-read volume has a glory
That seems a part of the Divine;
Each tells a truly perfect story,
Read 'neath the shadow of the pines.

Later on, when September skies are blue, the road a blaze of golden-rod and purple asters, too, and maples are hanging out their banners of red and gold,

And the sound of dropping fruit is heard
In the apple trees nearby,
The evening shadows damp and cool,
The hoot owl's mournful cry,

Then I know the time is short for lingering and dreaming in my favorite nooks. But when the frost king arrives and hangs his garniture of frost and ice on all the trees and the ground is white with snow, I walk down the avenue and think, "God must have let his imagination run riot in painting this beautiful fairyland." The rabbits crouch at my feet and the squirrels scamper from tree to tree and will venture up to eat bread from my hand.

He has no thought of any wrong,
He scans me with a fearless eye;
Stanch friends are we, our bonds are strong,
My squirrel chum and I.

I like to scatter wheat on a broad pine stump for the winter birds, also down under a broken limb and along the hedge row where the quail are snugly quartered for the winter. We are all good comrades at "The Pines."

Do the friends glimpse an ideal country life? I do, and I am happy that we are privileged to hear from this circle member whose coming should stir us to see more of the rich possibilities of farm life.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY—DO THY WORK.

Do thou thy work; it shall succeed
In thine or in another's day,
And if denied the victor's meed,
Thou shalt not miss the toiler's pay.
—Whittier.

Let me but find it in my heart to say,
When vagrant wishes beckon me astray,
"This is my work, my blessing, not my doom;
Of all who live, I am the one by whom
This work can best be done in the right way."
—Van Dyke.

To make a baby's inexpensive crib, take a box about twenty-eight inches long, eighteen inches wide and twelve inches deep. This box will hold a good-sized pillow for a mattress. For the legs buy four ten-inch iron harness hooks from any hardware or harness dealer and fasten one to each corner of the box. If the box is made of light material, put in an extra bottom so you can bolt these hooks on, thus making them perfectly firm. Use two five-cent brass screen-door handles and fasten one on the top of each end so as to carry the crib. Cover the outside with light blue or pink lining and let it drop over on the inside about one inch and then fasten. Then make four quilted pads for the sides and ends of the crib and fasten these to your lining at top of box, so they will cover the inside. Make a ruffle of dotted swiss to hang outside of the box over the lining, using small brass tacks to fasten it with. When put alongside of the mother's bed it will be found to be just the right height for her to take care of the baby without getting out of bed, and there is no danger of the child's rolling out.—Mrs. G. M. F., Minnesota.

YOU WILL NEVER BE SORRY.

For doing your level best.
For being kind to the poor.
For hearing before judging.
For thinking before speaking.
For standing by your principles.
For stopping your ears to gossip.
For being generous to an enemy.
For being courteous to all.
For asking pardon when in error.
For being honest in business dealings.
For giving an unfortunate person a lift.
For promptness in keeping your promises.

EYE DON'TS.

Don't read facing a light.
Don't read while you rock.
Don't work in a poor light.
Don't write or read or sew lying down.
Don't try to enlarge or brighten your eyes by dropping belladonna into them.
Don't rub your eyes.
Don't use your eyes when they smart and water.
Don't tax them when you are exhausted physically.
Don't forget that eyes need to be petted.
Don't forget that happy thoughts make the eyes sparkle and glow in a most fascinating way.

HOUSEHOLD HINTS.

A simple remedy for cold feet is to drink slowly two glasses of very hot water just before going to bed. It will warm and relax the system and improve the circulation.

Milk will immediately and effectually extinguish the flames from gasoline or any form of petroleum, since it forms an emulsion with the oil, whereas water only spreads it.

Sleeplessness on a cold night may often be relieved by tying a silk handkerchief over the head, which sometimes gets cold while the rest of the body is warm.

To the ordinary combination of warm water and ammonia used for freshening carpets, add a tablespoonful of kerosene and the result will be still more satisfactory than usual.

A molding board makes a very satisfactory extra shelf for kitchen or sewing room, if fastened to the wall with hinges and chains to prevent its sagging when lowered.

A cement made by adding a teaspoonful of glycerine to a gill of glue is a great convenience in the kitchen and is especially good for fastening leather, paper or wood to metal.

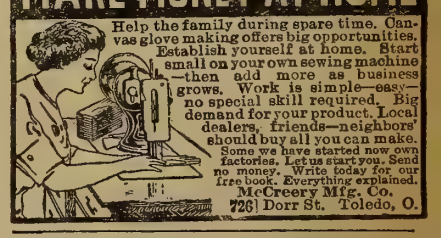
COOKING TURNIPS.

When cooking turnips this method not only prevents waste of a large part of the vegetable, but saves time. Choose medium-sized or small turnips to cook, as they are almost always sound. Wash them thoroughly, leaving peels and tails on; cook in a covered vessel with plenty of water and a pinch of soda. Put them on to boil about two hours before time to serve. Within an hour and a half they are done—try them with a fork. Drain the water off, turn cold water on them and the thin, tender skin will slip off like that of a boiled beet. Cut them, leave whole or mash; season to suit taste and put them in saucepan to simmer until time to serve. This is unquestionably an economical way to cook turnips, besides which they are more appetizing than those prepared in any other way.

AMONG OURSELVES.

As I sat at my desk scanning the letters that the postman had left me there came into my head a quotation from some author, Tennyson, I think: "How far that little candle sheds its beams!" Here comes a question from Iowa and later comes an answer from Mississippi; a reader in the domain of "My Lady of the Snows" comes into life contact with a daughter of the roses of California. Candles, candles burning everywhere and how far the lights penetrate when given the proper focus! Focus is a wonderful thing; have you found out the value of focusing your time, thought, attention on a few well-worth-while things? The Chinese have a saying, "Beware of the man of one book," meaning to imply the strength of him who knows something thoroughly. A focused life like a focused lamp throws great power in one direction at a time. These letters which come to your editor give hints of the focus in the life of each writer. Here Among Ourselves the lights of many gentle lives are gathered up and then sent out in wide sweep to brighten, to lighten, to point out, and those who have eyes, they see. Today we have first a visitor from California, a missionary minister's wife, Mrs. S. H. Seccombe, of Samoa, Cal., who says:

As I have been enjoying your letters I feel kindled to take my pen and visit with you a while, though it must be on paper at this time. As I perused the varied departments I could but wonder if any other dollar-a-year publication was giving its readers so much each week. "The Home" column is filled with such really helpful things, too; the only suggestion I would offer would be that more of you sisters use your pens. What a comfort it is to an isolated woman to receive and answer letters from those with whom she cannot visit. In the work of the ministry (our work) we meet all nationalities, classes and conditions, especially in comparatively new towns; so we soon get to love all. Away off here I have met some of my own dear New England people and also husband's Minnesota people. So, at times, we have almost felt at home. The little farm papers will always seem like a visit from home, too, as I first saw the light on a big farm in the old Pine Tree state. "Are you proud of that?"



CLUB RAISERS WANTED

I want a local subscription representative in each town in Iowa, Illinois and Nebraska, where I do not have a solicitor at present, to take subscriptions for The Homestead during the winter months. An energetic person can make excellent money working for me.

A Justice of Peace and farmer made $347.00 during December, January, February and March last year with practically no effort on his part. Just as he happened to meet his friends he asked them to subscribe.

An old soldier has earned $386.00 in the last year and has not been away from his blacksmith shop to solicit subscriptions.

A lady who had sold extracts all her life took up our work last winter and has made over $300.00 this year without leaving her home town.

It requires no particular ability to become a subscription representative. There is no reason why you should not make from $300.00 to $600.00 this winter, looking after my subscription interests in your locality.

If you prefer premiums to cash commissions, write us for a list of the nice presents we can make you for raising a club in your neighborhood. We have everything useful to give away from egg beaters to sewing machines and gold watches. Address

James M. Pierce, Publisher Homestead, Des Moines, Ia.

asked a friend recently, when I referred to the state of my birth. "Well, you may be sure I am!" I told him, "for I could not possibly be proud of any state that licenses a company of Godless men to demoralize my eight sons and daughters." Proud of it! They say that "prohibition doesn't prohibit in Maine any more than in the minds of a few women," yet one of my earliest recollections is that of seeing boxes taken off an incoming boat from Boston, quickly seized by Wiscasset officers, examined and found to contain what they didn't claim to contain, and quickly demolished. I wonder how your own beautiful Iowa stands? If any of you have temperance literature that you wish to pass on or Sunday-school or other good wholesome reading, we can make good use of it. But write first, so as to get our latest address, as our work is in various places. Hundreds of poor foreigners, who now speak and read English, as well as some of our own Americans, are too poor to subscribe for papers. We try to cheer the county poorhouse inmates, the jail, the cheap lodging houses and lots of other places with whatever good reading we can get. Last Sunday husband had to go to another place, so I took his place at the hospital and spoke to some of the most needy of the entire county. The papers I took along, all Sunday-school papers this time, gave much joy. This is a truly beautiful state, where the birds sing and flowers bloom the entire year. Write me freely. Good land is still to be had at a reasonable price and I can speak advisedly of the northern part of this state. Household help is very scarce and girls' wages high. Any girl or woman who will do housework can command almost her own price in our towns.

Having spent a number of years on the great prairies in an unbroken land I know what it means to receive a bundle of papers, magazines, to restore life to the fainting mind, for minds as well as hearts and bodies must be nourished or atrophy sets in. Perhaps you can do up a little bundle and spare the postage and so cast another "beam."

How it warms the heart to catch through the undrawn curtains a glimpse of happy home life! "Vera" gives us all a tiny look into her North Dakota home, and it is a satisfying peep that we get:

The letter of a "Mother of Three" in a late issue of this paper attracted my attention. From observation and actual experience, I have found that it pays to provide for an instrument and a musical education for the boys and girls. I think it best to get a piano without self-player and invest the cost of a self-player in lessons and music for the children. By learning to play they acquire a love for music and, incidentally, perhaps a greater love for all things beautiful and harmonious. A knowledge of music will provide for amusement when other plans fail. Another argument which should appeal to all parents, be they ever so prosaic, is that where there is music in a home you will invariably find that the young people have good associates, because refined and educated people enjoy visiting at such a place. To better illustrate my point of view, I shall describe conditions in my own home. We have a piano and all the music we desire, both classical and popular—both are necessary, as tastes differ. My sister, brother and myself take turns at the piano while the others sing. Especially is it enjoyable when a crowd of young people come over and all join in. We surely "raise the roof." It makes everybody feel at home and removes any possible embarrassment. But one reason why I would miss our music the most of anything we possess is because of the enjoyable hour we spend together every evening after our work is completed. (We live on a farm, so we have our share of work.) It seems to soothe and quiet our tired nerves to gather around the piano and through singing we unconsciously forget our troubles and cares. Or, if we feel too tired to sing, one of us plays either a quiet reverie or a sprightly selection, whichever we happen to prefer. At all times I have found that "Music hath power to soothe the tired soul."

FARM FOR SALE—320 acres all under good fence and cross fenced into several different fields. Most all of the fence is woven wire. 210 acres in cultivation and the balance in timber, and some of the timber land is good for cultivation when the timber is removed. The timber will more than pay for clearing the same. Part of the land is valley and part is gently rolling, just enough to drain well and does not wash or overflow. The soil is a sandy loam with a clay subsoil and produces splendid crops of all kinds of grain and grass that grow in this country and is also fine fruit land. Bearing orchard for family use. Good garden fenced with chicken wire. Good 2 story 6 room frame residence with halls and porches. 2 good frame barns with drive way through them. One 40x50 feet and the other 44x50 feet. Good frame granary, corn crib, machine shed, wagon shed, chicken house and hog house. A good concrete cellar. The buildings are painted and in good condition and are insured for $3,000. There are 2 tenant houses on the farm, one has 4 rooms with barn and other outbuildings, and the other has 3 rooms, small barn and other outbuildings. Have families living in each one of them. There are three good cisterns, 3 stock ponds and a living well on the farm. ½ mile to good school; splendid neighborhood and good healthy location. Daily mail and telephone in the house, telephone and telephone stock go with the farm. The farm is in good state of cultivation. One of the best grain, grass and stock farms in the county. This farm can be rented ½ (one-half) of all the crops put into crib and stack. There are about 100 acres or more in clover and timothy meadow. The buildings are on the main county road. The farm is 2½ miles from county seat, a town of 2,000 inhabitants, where there is a good ready cash market for anything one has to sell. Will furnish good title. Price $65 per acre, $4,000 cash. Good terms on balance. Address Box 217, Salem, Dent county, Mo.

HOMESEEKERS OF LIMITED MEANS and little experience are making $50 to $300 an acre from poultry, fruit, and general farming in the south, $10 to $30 an acre buys excellent farms. The Southern Railway Lines will find a suitable location. The "Southern Field" magazine free. M. V. Richards, Land & Industrial Agent, Room 60 Washington, D.C.

"Community of interest" is a phrase you have probably heard used before this. "Vera" gives us a practical example of it. There is nothing like having people doing the same thing, living somewhat similar lives, to teach them the great lesson of how much more alike we are in all things than we are unlike in anything. Every such feature as a piano in home life puts far more than is seen on the surface into the lives of all concerned. When you play music by a Russian, sing songs by a Norwegian, feel the rhythm of an Austrian dance or march you come a step nearer to the universal brother of the highest religious thought.

Another focused beam reaches this gathering of Among Ourselves. Amy M. Clark, a newly writing sister, is a community helper. Perhaps you can give her the help she requires:

I have been a silent reader of your bright and cheerful letters for some time and at last made up my mind to drop in among you and tell you how I like your letters, especially the ones relating to what books for the young people to read. I have read a great many books, the best of which I think are Louisa M. Alcott's works. They are all pure, entertaining and educational. Now, sisters, I have a request to make which I am sure someone will grant. We are getting up an entertainment for the benefit of our Sabbath school. If anyone will recommend some tableaux, pantomimes or recitations suitable for this purpose you will be helping in a good cause and I will be very grateful to you. Please excuse any blunders I have made and accept my thanks in advance.

This question of fit things for children to recite is a serious one—there is so much trash published—so much that give false standards, untrue relations—that I hope this will receive some really well-grounded replies, for here some sound seed may be sown. It is worth while to cultivate the librarian of your state traveling library on this point as well as in the town nearest to you that has a library.

Now Mrs. Grace Jenkins has the floor; she will give us out of her experience what may be useful to our homemakers:

I write to tell you how much I enjoy your talks, the Home and Homemaking helps and also the many letters that give us the benefit of what the writers have learned by experience. I am sure we all profit by what we read, although there are many, like myself, who never sit down to write and tell you about it. I can give just a few home hints this time. I am not much of an authoress, but I love to spend my spare time (and it is very spare, as I have three little ones under six) in reading and with paper and pencil, taking little lessons from the children, doing and making verses for them. How many mothers play with the children? I think that is the chief joy of having the little children with us. I always devote Sunday afternoon and an hour before bedtime to read, play games or tell stories or make candy, anything that suits the childish fancy. In warm weather we take a walk or sometimes a ride through the country to take lessons from nature. In cold weather dip a rag in vinegar to wash windows and they will not freeze. In making pie crust turn pie pan upside down, put your paste on, prick with fork and then reverse, and you will always have an even crust to fill. If baby has a bad cold give castor oil in small doses and put a raw onion in a bag or stocking, crush the onion until the juice comes through, then tie around baby's neck. The odor from the onion makes the child sleep and you have a good night's rest as well. [Be careful about using castor oil on account of the after effects.]—Editor. If a child swallows a penny don't worry yourself sick. It will come through in forty-eight hours. A large box for baby to play in is the best baby tender you can get when baby begins to sit up alone. Put a heavy quilt in the box to sit on and playthings, and he will be good two or three hours. A teaspoonful of vinegar in a dark cake that has molasses in it will shorten and keep it moist twice as long.

A personal query from Mabel for your attention:

Please tell me how grease or oil may be taken off of white buck shoes. I have tried washing them with warm water and soap, but that does not remove it. I will be very thankful to anyone who will suggest something. Also please tell me about a safe way of removing freckles from the skin.

The "merry" feature of Christmas which has grown so much of late years, makes anything like sickness seem then out of place to very many, but no time or season is exempt from the last visitation. One of our most valued friends, one who for years has been "Among Ourselves," passed to the other side just before the Christmas season--Mrs. Vanderhoef left us for the larger life after months of intense suffering. I love to think that these "little candles" of ours have not been snuffed out and the surrounding darkness made that much darker for the rest of us, but I am happy in the thought that these "candles" are lifted from one room to another, from here to where they will shine brighter in a broader service.

Here is a little poem from the pen of "Literature Lover" that has a good ring to it, though it is tinged with the doubtful philosophy of the old proverb, "Where ignorance is bliss 'tis folly to be wise:"

THE SOUL UNMARKED.

As I gaze from my window at dawning,
On a beautiful white world unmarked,
My heart is often filled with a longing
For a life untarnished, undarked.

To me seems this white, gleaming surface,
With its fulness of soft, snowy white,
As a life with a definite purpose,
Unstained in its luster of light.

How often we strive for the highest,
But to think that this life is unjust,
For we struggle and strive, but too often
Ere night we are trampled in dust.

So, too, is the beautiful picture
That Nature before us has spread,
For by night the white surface is crumpled
And marked with the strife and the tread.

Oh, would that our lives might be ever
As pure as the white world at dawn,
Instead of so darkly disfigured,
When the shadows of eve are long drawn.

What pictures come before one thinks "The coming of the snow." What has the coming of the snow meant to you? Have you shared in the feeling of the poem or have you seen a different picture? Won't you tell us about it? We would be glad to hear in "Among Ourselves." What wonderful pictures the artists of Europe and America have drawn from the coming of the snow! How writers have delighted to put snow seasons into words that will live forever, and great musicians have sensed their emotions in such sounds as thrill audiences to the heart! When you stand at your door, sit by your window, or ride out in the expansiveness of nature, are you not stirred? Can you express it? What recollections does it bring up? Tell us.

SHIP US YOUR Hides Fur, Tallow, Pelts, Wool, Ginseng and Seneca. Buy Guns, Traps, Decoys etc. Write for price list catalogue and shipping Tags. Mention this Paper.

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Big Doll For You

Nearly Two Feet Tall

This beautiful doll is 18 inches tall, jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood, when you get this doll, and she is yours for just a little easy work. I expect to give away 5,000 of them. Write today for great free offer.

PEOPLES CO.
902 Popular Bldg.
DesMoines, Iowa.

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

LEARN THIS BY HEART.

A gaudy dress and gentle air
May slightly touch the heart,
But it's innocence and modesty
That polishes the dart.
—Burns.

ROLL OF HONOR.

Ayfa	Lady Kate
Badger Boy	Lovelight
Cherry Blossom	O. L.
Corn Husker	Oriole
Dante	Partner
Fern	Rosetta
Humpty Dumpty	Schoolmate
Irene	Spit Fire
Jolly Jack	Spring Beauty
Kansas Girl	Topsy Turvy
Kertella	Zamanda

These young people have won their places here by sending in good original stories, verses or letters, written on one side only, with full address.

Cleo and Irene have been given pansy badges this week for three publications of their names on the roll of honor. Remember to give the dates your name appeared when writing for the badge.

Partner has won his silver honor badge. All who have the pansy badge may earn a silver badge in the same way—three times on the roll of honor after the notice of winning their pansy badge has been printed.

Snowdrop and Chipmunk forgot to give their real names, so they don't get on the roll this time.

THE FUN I HAD.

One sunny day I went to play
Out in the hay.
I played all day out in the hay:
Much fun I had that day.
—Rosetta, age 11.

FOR A STORMY DAY.

If you don't know what to do with your brothers and sisters when the snow is deep outside and it is cold and stormy, just get the big catalog, a tablet and pencil, and sit down around the table. Then let each child choose a coat, shoes, stockings, dress, hat, and all the other clothing they wear. Put down on paper what articles each one chooses, and the price, and then add together what it costs for each. When it is done, show it to your parents, and see what they say.—Dante, Wis.

Beheadments.

1. Behead a wrap and leave a monkey. 2. Behead spectacles and leave girls. 3. Behead a color and leave writing fluid. 4. Behead something to write on and leave tardy. 5. Behead a two-wheeled vehicle and leave skill. 6. Behead what thread is wound on and leave a puddle. 7. Behead a three-legged seat and leave something to work with. 8. Behead a fruit and leave the organ of hearing. 9. Behead to brush and leave to cry. 10. Behead what's on your head and leave what you breathe.—Humpty Dumpty, Ill.

Aunt Mary offers a bunch of ten dandy postcards for the first perfectly correct list of answers to these beheadments. Only one prize will be given.

New Year Resolutions.

How many made resolutions for the New Year? I hope you all made good ones. I am going to tell you the resolutions I made:

1. Resolved, not to take a drink of liquor in any form, unless it be in

case of severe and continued sickness.

2. Resolved, not to use any profane language throughout the year.

3. Resolved, not to tell lies to anyone or about anyone.

4. Resolved, to treat all dumb creatures kindly, and to do harm to none.

I hope that I may be able to keep them. I hope you all made good resolutions and will keep them.—Partner, S. D.

Finish This Story.

One December morning Will and Tom buckled on their skates for the ten mile trip down the river to Melbourne, to take their fall catch of furs.

It is growing dark when they were returning home, and suddenly they were surrounded by a pack of wolves. In an instant they were going fast, leaving most of the wolves away behind.

Some of them soon caught up, and one large wolf leaped upon Tom, bringing him down instantly. Will, seeing the fate of his brother, fainted.

Can you finish this story so as to save both of the boys? This, and a very weak ending, was written by Chipmunk. Now, Aunt Mary likes to see all stories end happily, yet naturally, and she offers a prize of twenty-five cents to the boy who writes and sends the best ending for this story, before February 28th.

An Interrupted Picnic.

I am a new cousin, but have been a continuous reader of the Young Folks Department for nearly two years and like it fine. I am going to tell you of the picnic our school had two years ago. We had it in a neighbor's grove about a quarter of a mile north of the schoolhouse. We took our lunch baskets and started about nine o'clock.

We boys had a ball team and were going to play the men folks. The first game stood 14 to 9 in favor of our team. By this time it was dinner time, so we went and had dinner, which was a very good one. After dinner we started to play another game of ball; we had played two innings when suddenly my father noticed that smoke was rising above the trees of a neighbor's house which was about one-half mile from where we were, we felt sure the house was a fire, and so it was. We ran all the way there. We found the man of the house lying close to the house where he had fainted. He had been planting corn in the field when he noticed the fire. He left his horses and ran to the house, and ran in the kitchen door, and crawled out the bedroom window, where he fainted, and there we found him. The fire had been too hot for him, and as he could not save anything, but crawled through the window and that was all he could remember.

We stayed there and watched the barn so no sparks would set it on fire, too. We stayed there till four o'clock and then went home; but our picnic had been interrupted.—Corn Husker, Neb.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER Lesson IV. Genesis IV., 1-15; January 26, 1913

CAIN AND ABEL—THE STORY.

The next picture flashed upon the inimitable canvas of Genesis shows the seed of God and the seed of the serpent in that mortal combat which had just been foretold. The tragic scene holds the eye. The stream of human life seems there to part. On the one hand it flows in larger volume, casting up mire and dirt, foaming out its own shame, sending forth its ominous detonations, falling at length with a Niagara roar into the abyss of hell. The smaller stream has a gentle flow. Heaven is mirrored on its surface. It empties at length into the sea of glass before the throne. The eldest brothers of the race, on a Sabbath, approach the gate of the lost paradise, where there was Shekinah, flaming from between the sentinel cherubim. They build their respective altars; it is possibly the very first instance of sacrifice. Cain, in his perversity, chose to make a eucharistic offering. He presented his own works. There was no confession, contrition, or faith. Abel makes a piacular sacrifice. In it there was a confession of sin, an expression of faith. There was no arbitary election of Abel, or reprobation of Cain. The case was decided by the subjective state and intent of the worshiper's heart. The form and quality of the gift was the material and objective expression of this. Abel's offering complied exactly with the form no doubt explicitly prescribed. God turned the light of His countenance upon Abel's lamb, with its ensanguined fleece, and set it on fire. That moment the flame of murderous jealousy sprung up in Cain's heart. His lofty pride in himself and the fruits of his industry was cut to the quick. He beguiles his brother into the open. He mockingly preaches to him there. He blasphemously rails against God's partiality, until his fiery speech, like intoxicating liquor, has nerved him to his deed. He strikes the fratricidal blow. How soon at best judgment and retribution follow the sinner! There is neither escape nor appeal from the Great White Throne. The cumulative and definite power of sin manifests itself. Adam fled. Cain dared approach the Theophany after his deed. Adam confessed. Cain denied, with insolent additions. Cain's repentance was judicial. It was the groan of the villain who feels the halter draw. Like all murderers, "the earth full of avengers," and is in terror. In the first great contest between the serpent seed and the seed of God, the latter, as in many a subsequent encounter, seems to be in defeat. But, after all, it is only the heel that is wounded. Abel survives in those who imitate him. Though dead, he speaks. Jesus ranks him head of all the holy martyrs.

The Teacher's Lantern.

Sin's hideous features stand out in blackest silhouette in this paragraph. Adam and Eve realize the hateful stream of hereditary influences their sin has started down the ages. How poignant the first mother's disappointment when she discovers that he, whom with "womanly precipitancy" she has called the "Gotten One," turned out to be not a "crusher of the serpent," but one of the serpent's seed! That motherly foreboding which led her to name her second son "swiftly disappearing breath of life," had a terrible realization. Well may Schiller sing:

That evil deed's avenging curse it is
That evil evermore it shall beget.

These lessons reveal God as directly interested and watchful in the moral actions of his intelligent creatures. God is after the sinner. He was on Adam's track before sundown, and Cain's as early. The motives and modes of worship are here portrayed. There is no finer commentary upon the incomparable parable of the Pharisee and Sinner. Serpent seed and God's seed—there are but the two on earth. Every living human being falls into the one or the other class.

Ask your neighbor to subscribe for The Homestead.

AGENTS SOMETHING NEW

Brandt's newly patented Combination Shaving Brush and Beard Softener. Little rubber fingers attached to shaving brush ends hand rubbing. Only sanitary method of rubbing in lather to soften the beard. Just the thing for a man with wiry beard and tender skin. Gives a facial massage with every shave. Prevents ingrowing hairs. Bristles set in rubber. Sells on sight; every man wants one. Write for wholesale terms and prices.

G. K. Brandt Brush Co., 42 Hudson St., New York City

SLED THAT STEERS, FREE

YOU CAN HAVE ONE.

Send No Money

This is the greatest sled for boys and girls ever manufactured. Known all over the country as the "sled that steers." Runners are spring steel, and when you coast down hill a slight pressure of the foot curves them and steers the sled to one side. No digging in the snow with your heels or plowing the snow with your foot. Not one boy in a hundred has one of these sleds. You can have one for a little easy work. Write me today and I will tell you all about it.

A. M. PIPER, 840 POPULAR BUILDING, DES MOINES, IOWA.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5589 Lady's Kimono—The kimono illustrated herewith has a little fulness in front and this is taken up in shirrings at each shoulder, while the back is plain and scant, fitted by a center seam. Any of the crepe materials can be used to make this garment.

The pattern, No. 5589, is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 6 yards of 44-inch material. Price of pattern, ten cents.

5160 Lady's Apron—This apron is made with a bib which protects the front of the waist. Muslin or sateen can be used to make this apron.

The pattern, No. 5160, is cut in one size and requires 2 yards of 36-inch material. Price of pattern, ten cents.

6007 Lady's Dress—This dress is made with the stylish sailor collar and turned-back cuffs. It closes at the front and is made with a removable chemisette. It can also be made with long or short sleeves. The skirt is a five-gored model. Serge or cheviot can be used to make this dress.

The pattern, No. 6007, is cut in sizes 32 to 42 inches bust measure. Medium size requires 6½ yards of 36-inch material with ⅝ of a yard of 27-inch contrasting goods. Price of pattern, ten cents.

5328 Child's Box Coat—This simple coat is cut on plain box lines. It is double breasted and finished at the neck with a wide collar, while inside the opening at the neck there is a shield and this is attached to a standing collar. The sleeves have a very little fulness at the shoulder and a turned-back cuff at the wrist.

The pattern, No. 5328, is cut in sizes 2 to 12 years. Medium size requires 1¾ yards of 44-inch material. Price of pattern, ten cents.

Grading Seed Grain Increases the Profits.

By M. Coverdell.

YOU ask our opinion on the subject of grading for seeding purposes. We will first take notice of the process through which this graded grain is secured and see if there is any loss occasioned by it. The fanning process not only removes all seeds foreign to the one we desire to sow, but it separates all small, light, ill-shaped, shriveled grains.

These undesirable seeds are not wasted, but can be fed to the stock and poultry, while, if they were used for seeding purposes, they would be practically lost, since they cannot possibly propagate healthy, productive plants, and when deposited in the earth simply rot away or produce a growth that will yield little or no grain.

Nor does the loss end simply with the wasting of these puny seed when sown without grading. Not only is one's time, labor and expense of seeder and teams wasted, but the space taken up by these weak seeds will lie practically idle for the season, the quality of the grain crop will be lower and the yield much lighter than if the seed had been graded before sowing.

It seems a waste of space (to the progressive farmer, at least) for us to argue that a plump, solid seed will propagate a stronger and more vigorous plant when deposited in the ground than will a soft, shriveled or in way damaged grain, which is low in germinating qualities. This being the case, however, the grain produced by the graded seed at harvest time is pretty sure to be heavier and of higher quality even than the one planted. Not only that, but by careful, systematic grading of the seed before sowing every year, the yield and quality of the crop will continue to increase gradually, the strain growing stronger and more pronounced in type, productiveness and purity each succeeding season.

Considering the moderate cost of a fanning mill, that it will last practically a lifetime, and can be operated to a big advantage when there is little else to do (the latter part of the winter), buying one would seem but a wise investment. Briefly summarized, its use prevents the waste of land by sowing seed that has not the vitality to avail itself of the soil's fertility; separates and saves these weak, undesirable seeds for feeding purposes, and guarantees a grain product at harvest time that is superior in every respect to the one produced by ungraded seed a product which can be fed to live stock with greater profit; will overweigh and command a premium if sold on the market, and furnish seed for sowing that will insure the quantity and quality of future crops.

SHEEP SALE---SHROPSHIRE EWES
CORNING, IOWA, FRIDAY, JANUARY 31, 1913

125 HEAD registered ewes safe in lamb to Imported Minton, Buttar and Instone rams. Quality and type will please you. Your price buys them. Piper Bros., Auctioneers.
DANIEL LEONARD & SONS, - - CORNING, IOWA.

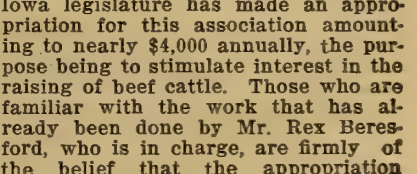
SHEEP
REGISTERED SHROPSHIRE RAMS

FROM best imported stock. Fifty head rams to go at quick sale from $15 to $25 each. These are thrifty, weigh up good, and include lambs, yearlings and a few two year olds. Will also offer a select lot of ewes. Angus cattle of best types for sale at all times.
A. C. BINNIE, - - Alta, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address
H. H. REED, - MARENGO, IOWA.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable.
Willard Miller, R. F. D. No. 2, Anita, Iowa



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

WINTER CARE AND FEED OF PREGNANT EWES.

To the Editor of The Homestead:

The sheep is the most sensitive and fragile in construction of any animal on the farm, the ewes—and more especially the pregnant ewes, being even more delicately constituted than the males of the flock, yet, there is a constant neglect prevalent among the majority of farmers with respect to the management of these animals upon which they depend for their valuable lamb crop.

In the face of such conditions, is it to be wondered at, that so many farmers condemn sheep raising as unprofitable? When the lambing season comes, and the ewes begin to lose their lambs, or drop puny, weak, undersized ones, all as a direct result of their keeper's careless management, he ignorantly blames the helpless sheep for his "ill-luck." Even where these slack methods are practiced, sheep often net their owners a neat profit. In such cases, what wonderful dividends they would return, if properly housed, fed and cared for during their period of pregnancy!

In ninety-nine out of every one hundred flocks of sheep, they are allowed to range with live stock of all kinds, sizes and dispositions. Pregnant ewes are apt to be injured, crippled or killed in such cases by being run over, bitten, kicked or hooked. Abortion, or the dropping of small, weakened lambs result from such practice. Even the excitement and exertion of a close chase by some other animal is liable to result in the above-stated damage to the ewes. Pregnant ewes should not be in a lot where there are hog guards to be jumped over in leaving and returning to it. A little crowding of the flock while leaping these guards, a sheep is overbalanced, falling on the guards, and her struggles, short they may be, are very painful and injurious to her, especially on account of her delicate condition, and may result in abortion. The detrimental effect of such abuse is sure to be felt by her dropping either a dead or stunted lamb at lambing time.

Any straining or excitement of a ewe while in her state of pregnancy will wield a deteriorating influence on her and her unborn offspring. Where a ewe is caught in a position that causes her to strain, abortion often follows. Passing over a fence that has been laid down in such a manner as to cause the ewe to drag or struggle over it, is to be avoided. Any protruding nails, snags or projecting pieces of boards around where the pregnant ewes are kept should be removed to prevent accidents. Dogs, or at least strange ones, must be kept strictly away from the flock in which there are pregnant ewes. Who has not seen the ewes stricken with sudden fright at some dog, dash off at full speed; then whirl about with head erect, dilated eyes and trembling bodies, to see what was coming next? Such fear is at the expense of the pregnant ewe and her unborn lamb. The shooting of firearms, or other loud or unusual noises, should be discouraged around the pregnant ewes.

While the pregnant ewes wear heavy coats of wool, they should not be exposed to severe cold rough piercing winds, snow, rain or sleet, the three latter being especially harmful. The thick, dense covering of wool becoming damp, it is a long time in drying out, so that ailments of the most serious character are liable to follow exposure to snow, rain or sleet at this season. It is of course an easy matter to overdo the housing of sheep. They do not require as close quarters as the other stock; shelter from the rough elements is what they must be provided with, and if they are confined in anything but an open-front shed, there should be ample ventilation. One always should manage to turn the pregnant ewes out every day when the weather will permit, as the sunlight and open-air exercise are two of the pressing essentials to their good health and vigor. Damp quarters are to be avoided, the floor of their sleeping place being kept clean, dry and level. These provisions for dry; comfortable and sanitary quarters will demand even closer attention as the lambing period draws near, and if a few individual stalls for the confinement of the pregnant ewes can be provided, where they can be given special care and feed, they are more apt to pass through this strenuous period in good condition and produce strong, vigorous lambs.

Most sheep raisers do not give enough attention to the feeding of pregnant ewes. They should be provided with rations especially adapted to their condition from now on till lambing time. Soiled, musty or moldy feed of every kind is to be carefully avoided, as they are productive of various digestive ills, and their continued use will bring on abortion or other complications when the lambs are dropped. Roughage of a woody, tough or fibrous consistency, is also to be fed very sparingly, if at all. Such roughage as timothy hay, or thoroughly ripened millet, and oat or wheat-straw, are the ones that are most commonly fed through ignorance or supposed necessity. If these are the only roughage feeds on the farm, it will pay any sheepman big profits to sell off such feed and invest the money received for it in more succulent roughage, such as clover, alfalfa, and oat hay, the latter having been mown while the grain was in the "milk." All sorts of roots and vegetables, such as cabbage, beets and turnips, are especially beneficial as a tonic and appetizer for pregnant ewes. The grain portion of the rations should be formed of a variety. Corn alone is not advisable, as it is too heating for the ewe in her already congested condition, but some corn is beneficial in maintaining body heat and building up fatty tissue. The ewe should be kept only in normal flesh, however, as a fat ewe is more apt to bring unsatisfactory results at lambing time than one in just ordinary shape. One part corn chop, one part oats and one part bran, with a handful of oil meal or cottonseed meal added for each sheep, forms an excellent ration for the pregnant ewes, one that will nourish the body properly and maintain the unborn lamb; keep the digestive and assimilative organs in smooth, easy running order; regulate the bowels; and act as a soothing panacea to congested conditions peculiar to an animal in a state of pregnancy; all of which not only insures the health and vigor of the developing lamb crop, but furnishes the ewes with a supply of energy from which they can draw a profuse flow of milk for the profitable support of their young.

Cole Co., Mo. Albert Marion.

IOWA BEEF PRODUCERS' MEETING.

The annual meeting of the Iowa Beef Producers' Association will be held at the Savery Hotel, Des Moines, Iowa, on Wednesday, January 29th, beginning at ten o'clock. The purpose of this meeting is to elect officers for the ensuing year and to receive a report of the work that has been done since the association began operations last March. A program has been prepared for the evening session which will be devoted to the discussion of the various phases of the beef industry.

The Homestead hopes to see this meeting well attended. Most of our readers are aware of the fact that the Iowa legislature has made an appropriation for this association amounting to nearly $4,000 annually, the purpose being to stimulate interest in the raising of beef cattle. Those who are familiar with the work that has already been done by Mr. Rex Beresford, who is in charge, are firmly of the belief that the appropriation should be continued and, therefore, the coming legislature will be importuned for further support.

That there are thousands of acres of marsh land in upper Wisconsin which are admirably adapted to the production of cranberries is the belief of F. E. Huser, of the Wisconsin College of Agriculture. Wisconsin growers are already raising, according to his report in a recent issue of the Wisconsin Horticulture, 12 per cent of the cranberries of the United States. However, if the industry is to develop in the Badger state as it should, the growers, it is believed, will have to change their methods of culture and follow the clean culture system as they do in the East where good crops and safe returns on the capital invested are more certain.

Shirley President Suspenders
Guarantee on each pair

They're *so* Comfortable

JUST the suspenders you've been wanting—because Shirley President Suspenders move freely—won't pull on your shoulders—and don't strain. Millions of men have proved it—why don't *You*?

Wear a pair for a month. If you don't like them, we will buy them back at price you paid.

Made in Light and Medium Weights. Extra lengths for tall men. Each pair guaranteed.

Price 50 cents everywhere.

The C. A. Edgarton Mfg. Co.
Shirley Guaranteed Suspenders
504 Main Street, SHIRLEY, MASS.

Increase Your Crop 8 to 15 Bushels to Acre

The Brillion Clod Crusher will increase your yield from 8 to 15 bushels per acre. It crushes, pulverizes, rolls, levels and packs the soil. Makes a perfect seed bed which retains all the moisture a few inches below the surface. Free booklet tells all. Write today.

Moline Plow Company
Dept. 404 Moline, Illinois

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Feb. 12, J. V. Arney, Leon, Iowa.
Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Jan. 28, O. M. Healy, Bedford, Ia. (sale at Marshalltown, Iowa).
Feb. 12, White & Smith, Chicago, Ill.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 14, Chas. Slepicka, Tobias Neb.
Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 21, F. A. Schaeffer, Raleigh, Iowa (sale at Estherville, Iowa).
Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 1, D. R. Hanna, Chicago, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Feb. 14-15, Combination sale, Grand Island, R. D. Mousel, Mgr., Cambridge, Neb.
Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 20, A. A. Hager, Avoca, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Feb. 6, Registered and high grade, A. J. Podendorf, Logan, Iowa.
Feb. 19-20, Frank White, Hampton, Ia.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Feb. 5, D. D. Case, Giltner, Neb., and L. M. Phelps, Trumbull, Neb. (sale at Hastings, Neb.)
Feb. 20, Nuckolls County Horse Breeders' Assn., Percy Baird, Ruskin, Neb., Sec., sale at Lincoln, Neb.
Jan. 22-23, Breeders, sale, C. F. Way and H. K. Frantz, Mgrs., Lincoln, Neb.
Mar. 12, L. H. Luckhardt, Tarkio, Mo.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Percheron and Belgian Horses.

Jan. 14, Thos. and James Woulf, Streator, Ill.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Jacks and Jennets.

Feb. 4, Platte Co. Jack Sale Co., J. B. Dillingham, Mgr., Platte City, Mo.
Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Poland China Swine.

Feb. 3, Carl A. Rosenfeld, Kelley, Ia.
Feb. 4, L. P. Martiny, Chippewa Falls, Wis.
Feb. 4, W. H. Barr & Sons, Villisca, Iowa (sale at Red Oak, Iowa).
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 4, Merzie Estate, Hampton, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 5, J. M. Glasier, Algona, Iowa.
Feb. 6, H. Fesenmeyer, Clarinda, Iowa.
Feb. 6, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 7, G. W. Sefrit, Lucas, Iowa.
Feb. 7, J. O. James, Braddyville, Iowa.
Feb. 8, J. T. R. Nash, Minden, Neb.
Feb. 10, A. D. Jones, Dunlap, Iowa.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 11, Henry Dorr, Remsen, Iowa.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 12, Jas. Williams and Will A. Henry, Marcus, Iowa.
Feb. 12, D. C. Lonergan, Florence, Neb.
Feb. 13, L. B. Williams & Sons, Villisca, Iowa.
Feb. 13, W. A. Lingford, Dannebrog, Neb., sale at Grand Island, Neb.
Feb. 13, E. S. Barker, Doon, Iowa.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 13, H. P. Kuhl, Florence, Neb.
Feb. 14, J. M. Peery, Alvord, Iowa.
Feb. 14, Frank Owens, Council Bluffs, Iowa.
Feb. 15, C. W. Humerick, Atlantic, Ia.
Feb. 15, Walker & Son, Fairbury, Neb.
Feb. 18, Jas. Cockerton, Whiting, Ia.
Feb. 18, G. J. Bloemendaal, Alton, Ia.
Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 19, Peter Mouw, Orange City, Ia.
Feb. 19, C. C. Polly, Whiting, Iowa.
Feb. 20, Ruebel Bros., Marathon, Iowa.
Feb. 21, W. J. Crow, Webb, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 21, R. W. Halford, Manning, Ia.
Feb. 22, W. E. Zimmerman, Neola, Ia.
Feb. 22, C. C. Ingram, Bloomington, Neb.
Feb. 24, J. M. Sheehan, Stuart, Iowa.
Feb. 25, W. M. Shrader & Co., Stuart, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa.
Feb. 26, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 26, Wm. Lentz, Ankeny, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa (night sale).
Feb. 27, R. R. Blake, Dallas Center, Ia.
Feb. 28, C. M. Pederson, Dunlap, Iowa.
Mar. 8, J. H. Healy, Manilla, Iowa.
Mar. 12, M. F. O'Hern, Barnum, Iowa.

Chester White Swine.

Feb. 7, Chas. H. Murray, Friend, Neb.
Feb. 13, F. W. La Doux, Spirit Lake, Ia.
Feb. 19, G. H. Tutt, Marathon, Iowa.
Feb. 20, J. H. Stewart, Dickens, Iowa.
Feb. 27, John F. Holst, Jr., Denison, Ia.

DATES FOR LIVE STOCK SALES.

Duroc Jersey Swine.

Feb. 3, R. J. Harding, Macedonia, Ia.
Feb. 4, F. H. Dickey & H. S. Fain, Emmetsburg, Iowa.
Feb. 4, Geo. T. White, Dallas Center, Ia.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 4, Wm. Retzlaff, Bennett, Neb.
Feb. 4, C. E. Veak, Essex, Iowa.
Feb. 5, Grant Lynn, Spirit Lake, Iowa.
Feb. 5, H. S. Allen, Chariton, Iowa.
Feb. 6, S. L. Weaver, Lake Park, Ia.
Feb. 6, J. C. Droz and Hanks & Bishop, Fairfield, Iowa.
Feb. 6, O. R. Stevens, Rippey, Iowa.
Feb. 7, Howard Gerlaugh, Osborn, O.
Feb. 7, J. Schmidt, Everly, Iowa.
Feb. 7, E. W. Davis, Glenwood, Mo.
Feb. 8, Swan & Ellis, Indianola, Iowa.
Feb. 10, R. Widle & Sons, Genoa, Neb.
Feb. 10, R. M. Skillen, Greene, Iowa.
Feb. 11, Waltemeyer Bros., Melbourne, Iowa.
Feb. 11, Fred Nelson, Lindsey, Neb.
Feb. 11, H. H. Shaw, Hebron, Neb.
Feb. 12, J. D. Isaac, Red Oak, Iowa.
Feb. 12, Economy Stock Farm, Shenandoah, Iowa.
Feb. 12, J. C. Theobold, Ohiowa, Neb.
Feb. 12, A. W. Lamb, Albion, Neb.
Feb. 13, C. H. Huffman, Scranton, Iowa.
Feb. 13, H. H. Koenig, DeWitt, Neb.
Feb. 13, A. R. Barnes, Petersburg, Neb.
Feb. 13, R. L. Comer, Carlinville, Ill., and W. H. & A. D. Van Meeter, Cantrall, Ill., sale at Pawnee, Ill.
Feb. 14, W. W. Scholes, Onawa, Iowa.
Feb. 14, Wm. Harding & Son, Brimfield, Ill.
Feb. 17, Bob Ewing, New Hampshire, O.
Feb. 18, Chas. F. Sprague, Lima, Ohio.
Feb. 18, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 19, D. Herr & Miller, Elida, Ohio.
Feb. 19, G. Van Patten & Son, Sutton, Neb.
Feb. 20, J. W. Storm, Seville, Ohio.
Feb. 21, Geo. Davis & Son, Milford, Neb.
Feb. 24, Jess W. Andrews, West Point, Ind., sale at La Fayette, Ind.

Hampshire Swine.

Feb. 5, C. A. Brook, Washington, Ia.
Feb. 18, W. F. Davis, So. St. Joe, Mo.
Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Some splendid Belgian stallions and mares are advertised for sale by Ed Boll, Jr., Scribner, Neb., on page 53.

Write C. W. Hurt, Arrowsmith, Ill., for a catalog of the big breeders' horse sale at Bloomington, Ill., January 28th to 31st inclusive.

Fred Hanks, Winnebago, Minn., has a new advertisement on page 53 of this issue in which he is offering for sale some Duroc Jersey bred gilts and one Shetland stallion.

Big-type Poland China gilts, bred for March and April farrow, with lots of size, bone nad quality, are offered for sale by H. A. Wohlsdorf, Lawler, Iowa, in his advertisement on page 42.

In an advertisement on page 51 S. J. Philson, Harlan, Iowa, announces that he is prepared to furnish high-class Chester White sows and gilts bred for March, April and May litters.

Taylor & Jones, the stallion importers at Williamsville, Ill., announce they have a little booklet ready for distribution, and that they will be glad to send one to any reader of this paper who will write for one, mentioning The Homestead.

The Minneapolis feed grinder, advertised on page 9, is sold direct to farmers on a free thirty days' trial, particulars concerning which may be learned by writing to Minneapolis Separator Company, 334 Erie St., Minneapolis, Minn.

Remember the Poland China sale of James G. Long at Harlan, Iowa, on January 24th. He will sell thirty head of B Wonder sows in this sale and four daughters of Fesenmeyer's celebrated old boar, A Wonder. Make it a point to be at his sale.

Going to the postoffice is getting popular again since farmers have bought so many Mitchell cars. The Mitchell is such an easy runner and it is such a pleasure to ride in it that the old-time visits to the postoffice have been resumed in a great many instances throughout the country. The advertisement of the Mitchell car on page 6 is worth reading by those who have not yet purchased cars. It gives a lot of interesting facts. Other important information may be secured by writing Sears Automobile Co., 923 Locust St., Des Moines, Iowa.

Perry O. Brown, Lamoni, Iowa, offers Short-horn bulls for sale on page 53 of this issue.

Scotch and Scotch-topped bulls are advertised for sale by M. A. McWilliams, Wall Lake, Iowa.

Some high-class Poland China bred sows are advertised for sale at private treaty by Wigstone Bros., Stanton, Ia., on page 50.

E. F. Escher, Manning, Iowa, is closing out all of his big-type Poland China sows at private treaty. See advertisement on page 50.

Chester White sows are offered for sale by Frank A. Gould, Rockwell City, Iowa. He also has a few boars to offer. See advertisement on page 51.

P. J. Eggers, Denison, Iowa, has a nice bunch of Percheron stallions on hand and will be pleased to have those contemplating buying to call and inspect his horses. See page 54.

John E. Griffith, Washington, Iowa, can supply Aberdeen Angus bulls and females of the leading popular and reliable families at a price within reach of any farmer. See page 52.

Thirty-eight head of good, useful Scotch-topped Short-horns, including seven young bulls by a grandson of Imp. Cock Robin, will be sold at public sale February 25th by R. M. Parker, Midland City, Ill. Write him for a catalog, mentioning The Homestead.

The Hampshires advertised on page 51 by J. Crouch & Son, Lafayette, Ind., are immunized against cholera. Their herd is headed by General Allen, champion at the International Live Stock Exposition, and early buyers can have the pick of over 150 head of desirable young stock.

Level farms of rich, clay loam soils, located near live cities and towns and well watered by rivers and creeks and having an abundant rainfall, may be purchased at low rates in the cut-over sections of upper Wisconsin. For further details write the Wisconsin Advancement Association, 317 Caswell Bldg., Milwaukee, Wis.

J. Nissen, Meservey, Iowa, is closing out his herd of Aberdeen Angus cattle. On page 52 of this issue he has an advertisement in which he is offering for sale eight cows, two two-year-old heifers and seven calves, also his herd bull, Benton N. 134802, a three year old that was champion as a yearling at the North Iowa Fair.

An advertisement of the West Side Nursery and Fruit Farm will be found on page 17 of this paper. This nursery is making a specialty of flower collections, small fruit collections and berry collections at low prices, or as a premium with $10 orders. These are all described in an illustrated circular, for which write to West Side Nursery, Postville, Iowa.

Anyone desiring a few choice registered Holstein cows, heifers or bulls can make their own selection from a herd owned by C. B. McCanna and maintained upon his Edgewood Stock Farm near Burlington in Racine county, Wisconsin. All of his animals have been tuberclin tested by the state veterinarian and will, therefore, be regarded as unusually free from the disease. See page 24.

A poultry book which gets right to the heart of those subjects most essential to success in poultry raising has been prepared and is sent free to readers of this paper who ask for it by the X-Ray Incubator Company, whose incubator and brooder advertisement will be found on page 27. The book also describes the X-Ray incubator. Write for it. Address inquiries to X-Ray Incubator Company, Wayne, Neb.

Mason & Brackmyer, Morrison, Ill., will hold a sale of Duroc Jersey bred sows on January 28th. They will sell fifty head sired by S. E.'s Crimson Wonder, State Fair Col. and Z. K.'s Col., and they will be bred to Chief Orion, Royal Col. and Mason Wonder. Any of our readers in need of some useful Duroc Jersey sows should arrange to attend this sale. See advertisement on page 52.

Some splendid Belgian stallions and mares are advertised for sale by Ed Boll, Jr., Sribner, Neb., on page 53. Some of these young stallions were leading winners at the Nebraska State Fair and the Interstate Fair last fall. He also offers a splendid span of five-year-old mares and some cracking good young fillies. When writing Mr. Boll about his Belgians kindly mention The Homestead.

H. C. Mehring, Manson, Iowa, whose advertisement appears on page 42, informs us that he has a fine lot of Scotch Collie pups for sale. These are all well marked and from the highest breeding. He has the right kind with prices to suit. Write him for prices and description. He ships over the Illinois Central and Rock Island railroads. Address H. C. Mehring, Manson, Iowa, R. 2, mentioning The Homestead.

An exhibitor of Poland China hogs at the Iowa State Fair last fall won first on boar in class under six months with a grandson of Long Prospect. He also took first and third ribbons on sows under six months with the get of a son of Long Prospect. This information is of interest because of the fact that Wm. Lentz, Ankeny, Iowa, had Long Prospect in service in his herd for a considerable length of time and retains in a large degree the blood carried by the winning pigs mentioned. Mr. Lentz expects to hold a brood sow sale shortly at which he will offer for sale animals closely related to those mentioned. In addition to winning at the Iowa State Fair, the same pigs gathered in like honors at the Minnesota and South Dakota State Fairs.

The advertisement of David Roberts Veterinary Company on page 25 is of general interest. Principally it presents for consideration Dr. Roberts' practical "Home Veterinarian," a big, good book full of facts profitable for stock raisers to know, and one which may be had without cost, or rather by a postal card request sent to the David Roberts Veterinary Company, 9121 Broadway, Waukesha, Wis.

Framers are, of course, always interested in the proper shoeing of horses. Those who want it rightly done will be interested in the advertisement of the Capewell nails to be found on page 6. The Capewell horse nail has been in use for thirty years and its value has been completely demonstrated. Every good blacksmith should use it. A pamphlet describing all its good points may be obtained by writing to Capewell Horse Nail Company, Dept. A, Hartford, Conn.

Now that spring is approaching and farmers will be compelled to get out in wet and muddy weather, it is of some importance that they be provided with boots capable of preventing feet from getting wet or cold. This is just the kind of boot made by the Mishawaka Woolen Mfg. Company and advertised under the trademark of "Ball Band." If additional information be desired send for illustrated booklet to Mishawaka Woolen Mfg. Company, 315 Water St., Mishawaka, Ind. See page 11 for advertisement.

Under recent date Chas. Irvine, importer and breeder of Belgian horses, advises us that he has just sold a pair of mares to a Canadian buyer, three good yearling mares to J. Seibert, Grimes, Iowa, and one mare to J. W. Thompson, Ankeny, Iowa. He still has on hands a fine selection of both stallions and mares and will be glad to show them to prospective buyers. See advertisement on page 54. For any additional particulars write to Chas. Irvine, Ankeny, Iowa.

S. M. Thompson, Birmingham, Iowa, writes as follows: "My stock is in fine shape and I am anxious to close them out at a low figure. To show that my patrons are pleased I quote from a customer and you can see what he has to say about the pig I shipped him. 'I received the pig in good shape. He is a good one and in fine condition and is O. K. I thank you many times.' Anyone being afraid the stock will not be what I represent it to be will do well to read this man's experience." If you want Chester Whites see page 51.

Of course, there are a great many good incubators on the market, but Sam Thompson declares in his advertisement on page 26 that the Fairfield incubator is just a little in advance of most others. It is worth while for prospective buyers to read fully the statement Mr. Thompson makes with reference to his guarantee, which, aside from insuring a 90 per cent hatch, covers the manufacture of the machine and other points at which an incubator would need any guarantee. The free catalog tells all about it. Write for it to Sam Thompson, President Nebraska Incubator Company, 99 Main St., Fairfield, Neb.

We have before us the annual garden catalog of Cole's Seed Store, Pella, Ia. As usual, it is replete with gardeners' and flower growers' information as well as handsomely decorated by engravings of practically all varieties of garden and flower seeds. Cole's Seed Store is one of the old standby Iowa seed-selling institutions. Each year it has persisted in furnishing patrons with absolutely dependable seeds and at a reasonable price. Some special bargains in flower seeds are this year offered. You may learn all about them by obtaining a copy of the catalog, for which write to Cole's Seed Store, Pella, Iowa. See page 15.

An illustration on one page of the Studebaker almanac for 1913 shows a pioneer cabin in which the almanac was probably the only literature to be found. Almanacs have improved since that time and the Studebaker almanac represents about the latest word in that improvement. It starts in on the very first page by giving facts that every farmer ought to know. All the usual almanac calculations are summed up in a single page where a glance will show any particular item wanted. Each month's almanac is accompanied by a table of historical facts that are as good as a big volume of history. Every alternate page contains a condensed article on some feature of farming. The whole is prepared in an attractive way that makes it a desirable addition to the library table of every farm. It may be secured without cost by writing to Studebaker Mfg. Co., South Bend, Ind.

Breeders of Poland China hogs who are in need of herd boars of approved lines of breeding should consult the advertisement of the dissolution sale of the Menzie Poland China herd on page 50 which announces a clearing up sale of the entire herd on February 4th. In this sale will be a two-year-old boar by the noted big hog and representative of the big strain, Columbia Chief 2d. On the side of the dam this hog traces to some of the more popular tribes produced by the Peter Mouw herd. He is right in every way, a big fellow and a proven breeder. Another two year old is C Wonder. This fellow is by B Wonder, he a son of Fesenmeyer's A Wonder and a grandson of Columbia Chief 2d. On the side of his dam he traces to Dude's Wonder and Gay Monarch, a rare combination of size and quality. This hog weighs 800 pounds today. There will also be sold a yearling by Mammoth Jumbo and out of Lady Haivor 2d. Taken as

a lot, the consignment is a remarkably good one. Address inquiries to Anna E. Sharp, administratrix, Hampton, Iowa.

The big advertisement of the Belle City incubator on page 26 is full of information for poultry raisers. It gives some of the reasons why the Belle City is so popular among those who want to raise early chicks and do it at the smallest expense of labor and the least loss of eggs. The Belle City is sold under absolute guarantee at remarkably low prices, with freight prepaid. For these low prices write to the Belle City Incubator Co., Box 52, Racine, Wis.

That popular tool grinder, the Luther, is again advertised on page 11 of this paper. A grinder of this sort is essential on every farm because it grinds quickly, with little labor and does not draw the temper of the tools ground. The Luther Dymo-grit Compound Grinder will sharpen cycles, disks, axes, saws, plow points, ensilage knives, etc., in the shortest possible time. A free book on tool grinding and a liberal free offer on the grinder may be secured by writing to the Luther Grinder Co., 412 Stroh Bldg., Milwaukee, Wis.

The illustration in the advertisement of Kendall's Spavin Cure on page 25 hints at the next month's work, which will demand that the horses go into the field in good condition. For nearly forty years Kendall's Spavin Cure has been a standard remedy for the ills of the horse, and it should be found on every farm. Read the advertisement carefully. It gives many testimonials. The preparation may be obtained from druggists at $1 per bottle. A free book, which is in itself an encyclopedia of veterinary advice, may be obtained by writing Dr. B. J. Kendall, Enosburg Falls, Vt.

That old-time seedsman, R. H. Shumway, Rockford, Ill., starts his annual advertising with an announcement of good seeds on page 15. Mr. Shumway is one of those pioneers who has gained the confidence of seed buyers through more than a quarter of a century of honorable dealing. He expects to round out his career in a manner which will add credit to his name. Buyers should secure a copy of his new free catalog which contains more than 700 illustrations of vegetables and flowers and describes garden and flower seeds in their greatest variety. For copy of the catalog write to the address named.

The manufacturer of the Wilbur stock food has adopted a new plan for popularizing that preparation. He proposes, as announced on page 56, to organize 500 Wilbur Stock and Poultry Tonic clubs. In order to make this organiaztion doubly interesting he presents particulars by which those who take up his plan may participate in a distribution of $500,000. It doesn't cost anything to learn all about this and it may make a little money for you to do it. That is the reason why we urge you to fill out the coupon in the advertisement and forward it to Wilbur Stock Food Company, Dept. C, Milwaukee, Wis.

The old, reliable four-burr Bovee grinder is advertised on page 18. The announcement of this grinder has appeared in the columns of this paper annually for a great number of years and the number of mills bought by farmers runs up into the thousands. As rapidly as the manufacturer found any point that needed strengthening or improving, the change was made, and today it stands as a perfect grinder, not excelled by any other grinding machine made. The Bovee is sold at remarkably low prices, which are quoted in the free illustrated catalog, for which address Bovee Grinder & Furnace Works, 100 Eighth St., Waterloo, Iowa.

Successful farmers now know and appreciate the fact that plowing means more than merely stirring up the soil. It means turning it over, stirring it, disintegrating the clods and leaving the entire depth of the plowing in that condition most suited to the preparation of a seed bed. The illustrations in the advertisement of the Rock Island Plow Company on page 16 show the difference between good plowing and bad plowing and go a long way towards illustrating the point we make. It will be noticed that the correct plan shown in the illustration is that provided by the use of the Rock Island C. T. X. Universal plow. There are a great many reasons for the superiority of the Rock Island. These, however, are described in a new catalog, for which write to Rock Island Plow Company, 138 Second Ave., Rock Island, Ill.

Farm power at low cost is the real cry of the Fuller & Johnson Manufacturing Co. The Fuller & Johnson people have published an illustrated catalog which gives completest information with respect to their double efficiency gasoline engine. It starts out by giving the guarantee furnished to every buyer. This guarantee is liberal and important. It assures every buyer of a Fuller & Johnson double efficiency engine that the engine shall be of first-class materials and workmanship and that it will develop more than its rated horsepower. Every engine will exceed its rating by a good margin. The engine will run properly and do good work if given reasonable care and proper handling. Any part that may be broken within five years will be furnished free of charge on board cars at the factory if the breakage results from faulty material or workmanship and the defective parts are delivered to the company at Madison, Wis. The catalog shows the many uses to which the Fuller & Johnson engine may be put. It goes into the minutest detail in descriptions, showing the simplicity, effectiveness and lasting qualities. The book is really one full of instruction. It may be obtained by writing to Fuller & Johnson Manufacturing Co., 1 Wyatt St., Madison, Wis.

In furnishing copy for their advertisement found on page 42 of this issue, A. Nevins & Son, Modesto, Ill., write: "Our Duroc Jerseys are doing nicely and we think we have a herd that has as much history as some of the leading herds, carrying such lines as Tippy Col., Kant Be Beat, B. & C.'s Col., The Professor, Model Chief, Good E. Nuff Again, King of Cols. and Defender. Our herd boars are Col. Kruger 106107 by Tippy Col., Model Chief I Am 123263 by R. L.'s Model Chief and Defender's Likeness 37135 by Defender."

C. H. Pewsey, Sioux Rapids, Iowa, on page 42 of this issue offers some well-bred Duroc Jersey sows which will farrow pigs by a big boar in March and April. There are some very toppy gilts in the lot worth good money to any buyer, as they are the kind which are profit makers. Many of them are by a big, well-proportioned boar, King Pewsey by Col. Grant 2d. The boar used in service was Cronk's Choice by a Col. sire, dam Lady Critic. Write now for a chance at the best in this herd. Mr. Pewsey will be glad to show you his stock or give you descriptions. Address C. H. Pewsey, Sioux Rapids, Iowa.

Daniel Leonard & Sons, Iowa's pioneer breeders and importers of Shropshire sheep, will hold a public sale of registered Shropshire bred ewes at Corning, Iowa, January 31, 1913. These ewes are bred to imported rams, such as Minton Buttar and Instone rams. The ewes are of the best of quality and are bred up to the standard Shropshire type. Do not fail to attend this sale if you are wanting some good Shropshires that are money-makers. Your price will buy them. Send mail bids to Piper Bros., Corning, Iowa. No postponement on account of weather, as sale will be held in the sale pavilion in Corning. See page 33 for their advertisement.

It may be a little out of season to talk about binders, but the little Cushman engine is always seasonable. It is a light engine, being built for service and with the especial purpose of running the machinery of the binder, thus leaving the pulling of the machine as the only work for the horses. The seasonableness of the Cushman is due to the fact that it may be detached from the binder and used for nearly every possible purpose on the farm requiring power. A free catalog tells all about it. A postal card request will secure this catalo. Address Cushman Motor Works, 2057 St., Lincoln, Neb.

Cranking a gasoline engine is sometimes dangerous and always hard work. It will, therefore, be recognized that an engine supplied with an electric starter has an advantage over one started by the old plan of cranking. The advertisement of the Electric Starting Woodpecker engine on page 12 is important in this connection because the engine advertised is not only a good one from all other points of view, but is supplied with an electric starting device on which absolute dependence may be made. The engine may be procured by any reader of this paper on a thirty days' free trial and with no cash in advance. For special particulars concerning this offer write to the Middletown Machine Company, 1313 First St., Middletown, Ohio.

Dobry's hog conditioner, which is the subject of the advertisement of the John Dobry Manufacturing Company on page 25, is fully described in a little book, neatly printed and published by the advertiser. The book is of particular interest because it not only tells the uses of the conditioner, but presents testimonials from a large number of farmers who have given it a trial and who are loud in their commendations. The Dobry Company also manufacture a steel hog trap which is something out of the ordinary and which enables the farmer to handle a hog of any size with none of the usual disturbances connected with such an operation. For a copy of the book or other information write to John Dobry Manufacturing Cmpany, Cedar Rapids, Iowa.

One of the most interesting picture books that has come to this office is that prepared by the M. M. Johnson Company, Clay Center, Neb. Of course, its object is to describe the famous Old Trusty incubator and brooder, but the object is so snowed under by the extraordinary array of pictures that our readers will certainly be glad that we told them about it. It has something else besides pictures, too. It gives in a mighty entertaining way the history of M. M. Johnson's beginning and progress as a maker of incubators. Several big pages are filled with this story and they, too, contain illustrations of humorous and instructive character. Page after page of pictures appear representing the success of hundreds of different users of the Old Trusty. The book is not an incubator catalog. It is a poultry book. It is a dandy. It doesn't cost a cent. Write for it to M. M. Johnson Co., Clay Center, Neb., and mention this paper. See advertisement on page 26.

NEXT WEEK'S SALE PROGRAM

Monday, January 27	Duroc Jerseys, David Boesiger, Cortland, Neb. Hampshires, A. L. Goodenough, Morrison, Ill.
Tuesday, January 28	Duroc Jerseys, F. Alldritt, Atlantic, Iowa. Hampshires, Mike Sharp & Sons, and R. L. Bollman, Coal Valley, Ill. Duroc Jerseys, A. J. Duerr, Milford, Neb. Poland Chinas, G. F. Marshall & Son, Monroe, Iowa. Short-horns, O. M. Healy, Marshalltown, Iowa. Horses, Breeders' Sale, C. W. Hurt, Mgr., Bloomington, Ill. Duroc Jerseys, Paul Mason and John Brackemyer, Morrison, Ill.
Wednesday, January 29	Poland Chinas, W. M. Wright and Sons, Allen, Neb. Poland Chinas, F. P. Robinson, Maryville, Mo. Duroc Jerseys, E. E. Handley, Carroll, Iowa. Horses, Breeders' Sale, C. W. Hurt, Mgr., Bloomington, Ill.
Thursday, January 30	Poland Chinas, G. A. Kissinger, Milford, Neb. Poland Chinas, E. E. Farver, Ocheyedan, Iowa. Poland Chinas, C. W. Schram, New Castle, Neb. Poland Chinas, O. J. McCullough and L. W. Hamilton, Central City, Neb. Duroc Jerseys, Kuper Bros., Bellevue, Iowa. Duroc Jerseys, O. S. Larson, Logan, Iowa. Horses, Breeders' Sale, C. W. Hurt, Mgr., Bloomington, Ill.
Friday, January 31	Poland Chinas, Sam Tillinghast, Peterson, Iowa. Poland Chinas, Frank Roberts, Earlham, Iowa. Duroc Jerseys, W. H. Seddon, Persia, Iowa. Horses, Breeders' Sale, C. W. Hurt, Mgr., Bloomington, Ill. Short-horns, Oscar Oxley, Corwith, Iowa. Shropshires, Daniel Leonard & Sons, Corning, Iowa.
Saturday, February 1	Poland Chinas, A. J. Podendorf and Frank Rainier, Logan, Iowa. Duroc Jerseys, O. E. Osborn, Weston, Iowa. Poland Chinas, N. B. Freeman, Kearney, Neb. Hampshires, G. H. Dodds, Kenton, Ohio.

Smith's Duroc Sale—Last Call.

On Saturday, January 25th, will occur the Duroc Jersey sale of J. E. Smith, Victor, Iowa. Mr. Smith will sell forty head of high-class sows and they will be as big and smooth as can be found anywhere. Don't forget the date and arrange to attend the sale if interested.

Shaw's Duroc Sale.

A sale of Durocs that should interest all Duroc men in the hog belt is the one that will be made by H. H. Shaw, Hebron, Neb., on February 11th. Mr. Shaw's sale will contain some very noteworthy animals and the offering, on the whole, is better than it was a year ago, at which time he made one of the good sales of Nebraska. Mr. Shaw has bought a new boar since last year. He is Crimson Wonder Chief by Crimson Wonder 3d and out of Lady Chief by the noted Chief To Be. Most of the sows will be bred to this boar and the remainder are bred to Rosebud's Wonder by Welch's Wonder by Col. Wonder and out of the great sow, Rosebud's Pride. A big sow by Lincoln Wonder, the top sow of Geo. Briggs & Son's last year's sale, will be offered at this time. We are of the opinion that she is as good a sow as will be sold this season anywhere. She was the best that we saw sell last year. She has raised a good litter for Mr. Shaw, and while the writer is of the opinion that Mr. Shaw is making a mistake to sell her, yet she should appeal to the buyers. Crimson Wonder Chief was one of the top boars of the Baxter & Comer fall sale and was pronounced by good judges to be one of the good pigs sold last all. Keep the sale in mind and send in your name, that you may get the catalog as soon as out. Mention this paper when you write.

Hereford Females for Sale.

On page 42 B. W. Gregory, Harlan, Iowa, advertises ten head of registered Hereford heifers for sale. These are well bred, as Mr. Gregory is one of the well-known breeders in the state. He is pricing these ten heifers where they will sell. When writing him kindly mention The Homestead.

Choice Hereford Bulls.

The breeder or farmer who wants to buy a choice young Hereford bull should read the advertisement of Ben Broughton, Lake View, Iowa, on page 53 and then see or write him at once. He has some of the best young bulls we know of for sale and these are good enough to head any herd in the West. Write Mr. Broughton about these bulls at once and mention The Homestead.

Foss Offers Choice Duroc Sows.

Theo. Foss, Sterling, Neb., offers for immediate sale a choice lot of Duroc Jersey bred sows. They are the Foss kind, big, growthy, smooth stock. They are sows of good breeding and mostly bred to a choice son of Prince of Cols. Homestead readers in the market for sows will do well to write Mr. Foss and when doing so kindly mention that you saw this notice in The Homestead.

Choice Aberdeen Angus Heifers.

On page 52 will be found the advertisement of Chas. Escher & Son, Botna, Iowa, who are offering a very select lot of yearling heifers that are sired by or are out of imported sires and dams. These are strictly choice and carry the blood close up of some of the most noted Aberdeen Angus sires now living. They are pricing these right if taken soon. When writing the above firm kindly mention The Homestead.

F. A. Stooker's Percherons.

One of the best appointed stock farms and one of the best herds of Red Polled cattle and Percheron horses in eastern Nebraska is owned by F. A. Stooker, Dunbar, Neb. Just now there is being offered from this farm a choice selection of Percherons, including a couple of young stallions and a few mares. Mr. Stooker is the sort of man one likes to do business with, and this stock is first class. Mention The Homestead when you write for prices. See advertisement on page 53.

Wilson Makes Nice Bull Sale.

One of the nice sales of Short-horn bulls that has been made so far in the new year was made a short time ago by Irvin E. Wilson, Belvidere, Neb. In this sale Mr. Wilson disposed of his entire crop of yearling bulls. They went to the Cherry County Cattle Co., owned by A. G. Prey, St. Joseph, Mo. Mr. Wilson maintains a very choice herd of cattle and still has for sale a number of coming yearling bulls and a choice Scotch herd bull. Should you write Mr. Wilson kindly mention The Homestead.

Holbert's Imported Horses.

A. B. Holbert, proprietor of the Greeley Horse Importing Company, Greeley, Iowa, informs us that they have an importation of Percheron, Belgian and Shire stallions and mares arriving in Greeley this week and that another importation is now leaving Europe, and that another lot will be sent later on. Mr. Holbert has gotten out a beautiful lithograph showing his barns and residence and 200 head of stallions and this will be mailed to anyone free of charge who will write him, mentioning The Homestead. See page 53.

Seddon's Great Col. Gano Sale.

One of the greatest offerings of Duroc Jerseys that will be sold this winter will be that of W. H. Seddon, at Persia, Iowa, on January 31st. Here was the original home of that noted sire and breeding boar, Col. Gano, and he still owns a half interest in him and will sell fifteen of the very best sows in this sale bred to him. It will be a great place to buy sows bred to this celebrated boar and you can just take our word for it he has some good ones. Another feature of the Seddon sale is that he has all kinds of size, in fact, he always breeds them big, and he has some of the largest spring gilts we have seen in our inspection of the various herds. Most of the sows not bred to old Col. Gano will be bred to Mr. Seddon's young boar, Model Select, and we think he is about the best Chief Select boar we have ever seen. He has plenty of size and all kinds of finish and he has a head and ear him on him that are hard to beat. One of the outstanding good gilts that he will sell is a daughter of Chief Select and she is bred to Col. Gano for an early litter. He has two of these Chief Select gilts and they are both good and are both bred to Gano. Then he is also listing five very good and very large gilts by old King The Col. and these are bred to the young boar. There will be three splendid gilts by A. F.'s Pilot Wonder and six good Col. Gano gilts in the sale. Then he has two exceptionally large gilts, in fact, these are of the big-type kind, and they are sired by Junior Special, a son of C. H.'s Special. Among the outstanding matured sows in his sale, of course, will be O. R., a line-bred Ohio Chief sow that he bought last year at $280, and she is bred to Col. Gano and has every right to produce him a great litter from this mating. Get a catalog at once and then go to the sale and if you cannot get there in person send

your bid to M. T. White, Homestead representative, in care of Mr. Seddon, and it will be looked after on sale day. See advertisement on page 51.

High-Class Angus Sale.

Isenbarger Bros., Battle Creek, Iowa, will make a public sale of about forty head of Aberdeen Angus cattle on March 12th. These gentlemen have one of the best herds today in the state of Iowa and they can show you a grand lot of high-class individuals. In other words these gentlemen are splendid cattlemen and they have a most excellent herd, composed of Blackbirds, Trojan Ericas, Prides, Heatherblooms and Queen Mothers. They are going to sell a great lot of cattle in their sale on the above date. To be sure of your getting their catalog make it a point to drop them a postal card at once, asking for the same, and kindly mention The Homestead.

Alldritt's Duroc Sale—Last Call.

On January 28th F. Alldritt, Lincoln, Neb., will sell a draft of choice Duroc Jersey sows in the sale barn at Atlantic, Iowa. Mr. Alldritt says that they are the best lot of sows that he has ever offered and we all know that he has sold some good ones. He says that they are the sort he would wish to buy if he were starting in the business, and his years of experience should help some if selecting a new start. These sows will be bred to high-class boars, some of them extra choice ones, and they should make the breeders of western Iowa some hogs that will make money. Try and attend the sale, which will be held in the city of Atlantic, Iowa, on January 28th.

Freeman's Big Poland Sale—Last Call.

Probably nowhere this month will better big-type Poland China breeding be sold than will be offered in the sale that will be made by N. B. Freeman, Kearney, Neb., on February 1st. This sale will be held in a comfortable sale barn and there is excellent train service to and from this point. Sows sired by and sows bred to the great Price Wonder will be offered. Also daughters of Price Wonder, bred to Big Wonder, will go in. Still others are bred to a son of Big Wonder that we think a very valuable big boar. The writer would like to see a good gathering of Poland China breeders at this sale. However, those who cannot attend may send bids to J. C. Price, representing The Homestead. Send bids early and send them in care of Mr. Freeman.

Handley's Large-Type Durocs.

Those of our readers who are going to want some large-type Duroc Jersey brood sows should attend the E. E. Handley sale at Carroll, Iowa, on January 29th. He is selling forty head of yearling and matured sows and spring gilts and these are as large as you will find in any sale this winter. Five of the best tried sows he will sell will be bred to his old champion boar, Frankfort K. Fifteen of the spring gilts will be sired by the old hog and he is also selling daughters of that noted boar, Col. Gano; Golden Model 17th; Ashgrove Col.; Regulus, Chief I Am, and other well-known boars. The sale will be held in his new heated sale pavilion, so no one need hesitate going to his sale on account of the weather. His catalog is now ready and will be mailed on application. Bids send to M. T. White, in care of Mr. Handley, will receive attention on day of sale.

H. H. Reed Has Good Trade.

H. H. Reed, Marengo, Iowa, a breeder of Aberdeen Angus cattle, Shropshire sheep and Poland China hogs, was recently visited by a Homestead representative and we found that the demand for all classes of live stock he handles has been so brisk that he is nearly sold out. He has sold over thirty Angus bulls and females during the past ninety days, only having two bulls eleven months old on hand. These are good ones and are priced worth the money. This demand indicates an increase in values for pure-bred Aberdeen Angus cattle. Mr. Reed disposed of his Shropshire rams that he has been advertising in The Homestead, but will be glad to hear from anyone needing an Aberdeen Angus bull. Mr. Reed is an enterprising young man who has stocked his farm with pure-bred stock and our readers will find him ready to treat them right in all his dealings. See advertisement on page 33.

Podendorf and Rainier's Sow Sale.

For the last time we want to call attention to the Poland China brood sow sale of A. J. Podendorf and Frank Rainier at Logan, Iowa, on February 1st. These two well-known breeders are selling one of the best offerings of sows that ever went through a sale ring at this point. They have cataloged fifty head and the greater number of these are bred to two of the best boars today in the state, Chief Price Again and the great Long Nelson. It would hardly seem necessary for us to dwell on old Chief Price Again, but for fear some might not know about him we will say that he was a winner at the Iowa State Fair and his sons and daughters have been winning ever since. He sired Chief Price Again 2d and the great boar, Mable's Wonder, the former boar a winner at Des Moines and the latter boar a first-prize boar at Lincoln. There are a number of other sons of his that are standing at the head of good herds and they are breeding on. Over half the offering will be bred to these two splendid boars and you will not make any mistake if you buy sows bred to either boar. We have personally inspected both of these offerings and we will say to Homestead readers that they are selling a most excellent lot of brood sows and they are bred to just as good herd boars as you will find today in the West. It behooves every breeder who is going to want bred sows to get a copy of their catalog and be sure to mention this paper when writing for it. Bids sent to C. C. Carlin or M. T. White, in care of either of the above breeders, will be properly looked after on day of sale. See page 46.

Duerr's Crimson Col. Sale—Last Call.

We are calling attention for the last time to the sale of Duroc Jersey bred sows that will be offered by A. J. Duerr, Milford, Neb., on January 28th. This sale will comprise nearly the entire herd owned by Mr. Duerr, as he was a little short on material for the sale and is selling some sows that he would like very much to keep. However, he expects to replace them with ones just as good. A big lot of the sows that sell are bred to Crimson Col., one of the good boars of the state. A few are bred to Critic King, a son of Critic B., the 1912 champion. Do not forget this sale. There will be a lot of high-class hogs and Mr. Duerr is the sort of a breeder to support. He has the hogs and he does business in a mighty obliging way. If you cannot get to the sale send a bid to J. C. Price, the field man for The Homestead, and your wants will be well looked after.

Digester Tankage and Hog Cholera.

There has been considerable discussion at different times regarding the liability of diseased meats creeping into digester tankage, thereby rendering hogs liable to sickness. A representative of this paper recently investigated the matter to some extent. Among others he interviewed F. S. Markey, of Hine Bros. Co., Union Stock Yards, Chicago, who has had a wide experience in the digester tankage business. Mr. Markey said: "I wish to say that our tankage is made from residue of meat scraps of animals that have passed government inspection, which does away with any possibility of diseased meats going into its manufacture. In fact, we are at present getting in our best work in localities where hog cholera is prevalent, as there can be no question that hogs fed on tankage of proper make, such as ours, are conditioned so that they rarely, if ever, are infected with hog cholera."

Last Call for Bollman and Sharp's Big Hampshire Sale.

On Tuesday, January 28, 1913, R. L. Bollman and Mike Sharp & Sons, Coal Valley, Ill., will hold a great public sale of ninety head of select Hampshires. They are the pick of these two noted herds that have won more prizes than any other herds in the land. It seems to the writer that he never saw so many good Hampshire hogs and they say they are not going to show next year, so they have decided to sell the stuff in their sale that they had intended showing next year. Many are aged and yearling sows, while the very best of the gilts have been picked out and bred for this sale. We believe it one of the greatest opportunities ever offered Homestead readers to buy this popular breed of hogs. Trains from Peoria or Rock Island each way on the morning of the sale. Everybody will be taken care of in good shape. For further particulars address either Mike Sharp & Sons or R. L. Bollman, Coal Valley, Ill.

Marshall's Poland China Sale.

G. F. Marshall & Son, Monroe, Iowa, write as follows regarding the sows they will put in their sale January 28th: "We are putting a bunch of sows in this sale of big-type breeding that gives the buyer a chance to get a variety of the best blood known to the breed and the big-type blood lines of most of the well-known herds. There will be yearling gilts weighing from 500 to 600 pounds and the spring gilts are as large for their age. There are no creases or wrinkles on these sows and they have great length and extra heavy bone. People who see the herd say I have more bone than they usually see. Giant King gilts and boars are big and have quality. I have been offered more money for Giant King than any boar I ever owned. It will take $2,000 to buy him, so you see what I think of him. He is one of the biggest, smoothest boars ever produced and could be made to weigh 1,200 pounds in another year. A sow sired by him or bred to him will be a good investment. I have been selling his pigs up to $100 each. Sows sired by Giant King will be bred to a son of Big Jumbo. The sows have had a range of forty acres and have been fed for results. My sows usually farrow from ten to twelve pigs each litter. Two fall boars that are herd headers will be worth a lot of money to the right man. Spend the day with us and see them sell."

Kent Offers Chester White Sows.

Thos. F. Kent, Walnut, Iowa, offers 200 head of Chester White sows and gilts for sale. These will farrow in February, March and April. Mr. Kent, it will be remembered, had the great prize-winning herd out last fall. If you want a few of these sows you will have to get your order in early, as they are going fast. Mention this paper when writing Mr. Kent.

Tower Surface Cultivation.

The Tower surface cultivator has done such good work and for such a great length of time that it has become a watchword with those who appreciate the gains to be made by a scientific surface cultivation. There is no other implement which does such efficient work in dry seasons as the Tower. It has oftentimes been the salvation of a corn crop where other systems of cultivation failed. Additional information and free illustrated book may be had by writing to J. D. Tower & Sons Company, 81st St., Mendota, Ill.

Podendorf's Holstein Sale.

On February 6th A. J. Podendorf, Logan, Iowa, will make a public sale of forty head of registered and high-grade Holstein-Friesian cows and heifers and young bulls. Ten of these cows will be giving milk at time of sale and the remainder will be fresh in February and March. He will also sell ten head of good two-year-old heifers and these will make splendid cows. There will also be a choice lot of good young bulls in the sale. Parties attending the H. C. Glissman sale the day before at Omaha can go directly to Logan, Iowa, for this sale. Write Mr. Podendorf at once for catalog and kindly mention this paper. See advertisement on page 24.

Adding to Dairy Profits.

Every farmer who aims to make every division of his farm work profitable realizes that there are wonderful possibilities for profits in the dairy which a little extra pains in careful labor and a little better equipment in appliances would turn to his advantage. The Home creamery belongs to a class of machinery which cannot fail to prove profitable on any farm. Readers of this paper are urged to obtain complete information with respect to it. They may do so and at the same time they learn much about butter making and cream handling that will aid them in their later work. This is given in a book called "Dairy Dollars." It not only tells how profitable this work is, but at the same time shows how most farms are losing money instead of making it. A copy of this book can be secured free of cost by writing to the Home Creamery Manufacturing Co., Dept. 10, Owatonna, Minn. See page 22.

O. E. Osborn's Last Call.

Those of our Duroc Jersey friends who want to purchase a few good sows cannot do better than attend the O. E. Osborn sale at Weston, Iowa, on February 1st. He will sell forty head, among which will be that splendid Ohio Chief sow, Chief's Last Pansy. She is bred to King Gano, possibly the best son of old Col. Gano that was sold last fall. He is also selling some splendid fall sows and spring gilts that are sired by Osborn's Prince of Cols. and Osborn's Chief Select. Some good Model Critic sows will also be attractions in his sale. A few choice February gilts by Osborn's Prince of Cols. are of the outstanding kind, and would look good in any sale. These are bred to Valley King Again, a grandson of that old grand champion boar, Valley King. Every sow that he is selling will show safe in pig by day of sale, and take our word for it he is selling a lot of useful and well-bred sows in this offering. Some of these might well be termed big-type sows, as they have plenty of size. Another feature of the O. E. Osborn offering is that sows sold in his sale always prove good breeders and they will be in the condition that will do the buyer good. His catalog makes excellent reading for those who are engaged in breeding Duroc Jerseys. Write for it at once and kindly mention The Homestead. M. T. White, Homestead representative, will care for any bids sent in his care on day of sale. See page 49.

Kissinger's Poland China Sale—Last Call.

When making the last call for the Poland China sale that will be held on the Kissinger farm, about six miles northeast of Milford, Neb., on January 30th, we believe that we are calling attention to one of the choicest Poland China offerings to be sold this season. Mr. Kissinger has been breeding Polands for a long time and he has held to a type that is hard to find. They are sure enough big hogs and yet they have a lot of quality and bone. The greater part of the offering is sired by Hillcroft Model and one of the best boars we know of. A part of them are bred to Hillcroft Model and his get are bred to Big Martin, a young boar of much promise. We would like to see a number of the readers of The Homestead at this sale, and we feel certain that they will be well repaid for their trouble. If unable to attend send bids to J. C. Price, in care of Mr. Kissinger. Send bids early and give as wide a range of selection as possible, and your wants will be looked after in a businesslike manner.

Chas. H. Murray's Chester White Sale.

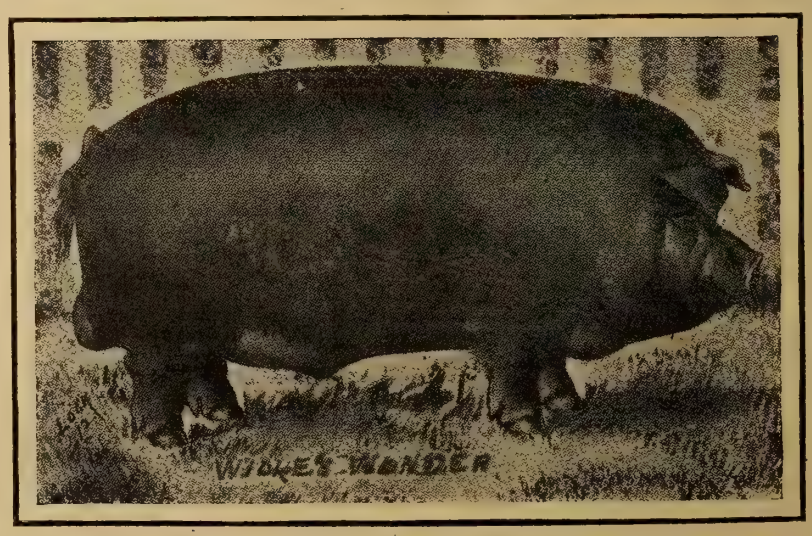
One of the greatest offerings of Chester White bred sows to be offered this season will be put up by Chas. H. Murray, Friend, Neb., on February 7th. This is one of the great herds of Chester Whites of the country and this offering will contain much of the very best of the herd. They were all immuned early in the fall and are in excellent shape at the present time. They should be safe stuff to put in one's herd and they are certainly worthy of good homes, judged from either the standpoint of breeding or individuality. The writer would like to see a good turnout of breeders at this sale. We are certain the efforts of Mr. Murray are worthy of support, and we feel that all who attend will find they have spent the time very profitably. Those unable to attend and wishing a choice bred sow should send bids to J. C. Price, the field man for this paper, and they will be well treated. Hogs will be bought for these men well worth the money and careful selections will be made. Address all communications to Chas. H. Murray, Friend, Neb., and mention this paper when you write. See page 39.

An Excellent Poland China Offering.

The engraving which appears on page 37 shows a few of the fall yearling Poland China sows to be sold by Carl Rosenfeld at his public sale at Kelley, Iowa, February 3d. There are twenty-four of these and they are so nearly alike that it would take an expert indeed to select one which was much better than the others. As noted in our last issue, the consignment which Mr. Rosenfeld has selected is a remarkably good one. We have not space to go into details in the blood lines, but it is of interest to all buyers to know that the strains represented are those which have been the basis of the very best results in big-type breeding, and in this case the animals are a credit to their breeding. There are also a few mature and tried sows cataloged for this sale. One of these is Susie's Giantess, a September yearling that has an excellent gilt in the sale. This sow is a daughter of Mastodon, he being by King Mastodon and out of Lady Mastodon 95th by A Wonder. The latter is the hog which has made the great reputation of Mr. Fesenmeyer, Clarinda, Iowa. The dam is Daisy's Giant by P. W. Giant. This is a remarkably good sow and one which will prove a great investment at almost any price for which she may be sold. There are a number of others equally good and, in fact, the entire consignment is such as to be worthy of the investigation of good breeders. For catalogs write to Carl Rosenfeld, Kelley, Iowa.

D. K. O'Day's Big Duroc and Flue Stock Sale, February 4th.

A sale that should interest Homestead readers is that of D. K. O'Day, Burnside, Ill. Seventy choice Durocs will be offered, including the herd boars, Oliver the Great 131455 by Superba 31403, dam Lucy Wonder 139th by Crimson Wonder III., and Winser Boy by Wonder Boy, dam Red Wave by Col. Freed. One of the attractions of the sale is a Volunteer gilt out of Helen's Duchess that sold in the Browning sale recently for $675. She is bred to the great champion of 1912, Prince Educator 100679, on December 11, 1912. This will perhaps be the only sow sold bred this way in the West this winter. Others of good breeding are offered. Seventeen head of high-class draft and road horses will be offered, including draft mares weighing 1,600 pounds, due to foal early. Matched gelding and fancy drivers broke double and single will be offered. Also nine head of high-class Hereford cattle, including herd bull; fancy poultry, chickens, ducks, geese and turkeys; seventy-five bushels selected Reid's Yellow Dent seed corn, twenty-five bushels Boone County White, etc. The sale will be held at the farm near Burnside, Ill. Trains will be met at Burnside on T. P. & W. R. R., these being due from Keokuk at 7:45 a. m. and from Peoria and the east at 11:27 a. m. Trains on the C., B. & Q. arrive at Adrian from Burlington at 8:00 a. m., from Quincy at 9:45 a. m. Parties coming on Wabash railroad will be met at Ferris, Ill. H. E. Browning will represent The Homestead. Bids by mail or wire should be sent to him in care of Mr. O'Day at Burnside, Ill. Cols. Fred Reppert, J. W. Story and C. L. Greer, auctioneers.



The above is a likeness of the well-known boar, Widle's Wonder, at the head of the Plainview herd of Durocs owned by David Boesiger, Cortland, Neb. This was the first-prize boar at the Nebraska State Fair, 1912. Many sows bred to him go in the sale made by Mr. Boesiger on January 27th.

Look up the advertisement on page 51 of this issue and for further information address D. K. O'Day, Burnside, Ill.

Closing-Out Shetland Pony Herd.

With this issue o The Homestead, Spivey Robb & Co., University Place, Neb., are starting an advertisement in which they offer their entire stud of Shetland ponies at prices that should sell them quickly. These gentlemen have been breeding ponies for many years, and the herd is one that is well known for the excellence of the ponies produced there. Readers of this paper who are interested should address as above for full information and when writing kindly mention The Homestead. See advertisement on page 42.

Oltmanns Bros.' New Importation.

An importation of Percheron and Belgian stallions has just landed at the barns of Oltmanns Bros., Watseka, Ill., and this reliable firm is in good shape to care for the wants of the buying public. The horses are all good young ages, the low-down, good-boned, well-made kind, selected from the best studs in Belgium and France by the senior member of the firm, who resides at Leer, Germany, and is consequently in close touch with the horse-producing interests of Europe and possesses exceptional buying advantages. This is one of the old established importing firms and they can be depended upon to make good every statement. Buyers will make no mistake by inspecting their horses and will get satisfactory treatment in every way. See page 55.

Trees at Half Price.

Mr. Earl Ferris, proprietor of the Earl Ferris Nursery, Hampton, Iowa, has an interesting offer on page 14 of this week's issue. Mr. Ferris delivers trees direct from the nursery row to the farm at a price he claims is just about one-half what is paid for nursery stock when it is bought of a traveling agent. Although he only specializes on evergreens, he handles Delicious, Wealthy and other apple trees, as well as choice varieties of plums, strawberries and other fruit. Mr. Ferris' evergreen offer is especially attractive. He sends 100 transplanted, root-pruned evergreens for $7.50, express prepaid. This is a remarkable offer that he has been making for three years, during which time hundreds of farmers of Iowa and adjacent states have taken advantage of it.

Boesiger's Duroc Sale—Last Call.

The last call for the David Boesiger sale means the last call to the opportunity to buy a choice Duroc sow bred to the prize-winning boar, Widle's Wonder. It will be the last chance to buy first hand this season. Widle's Wonder made a great showing at Lincoln last fall and he has a right to sire good stuff. He was the highest-priced boar sold at auction in Nebraska last season and the competition was made by men who are conservative breeders. Mr. Boesiger has a great lot of stuff for this sale, they are descended from good foundation material and mated with Widle's Wonder they should prove absolutely right. A few sows are bred to Lincoln Lad, a son of Lincoln Wonder. Lincoln Wonder is generally regarded as one of the very best sow sires of the breed and Lincoln Lad is not far behind his sire. If unable to attend this sale send a bid on some of the good sows to J. C. Price, field man for this paper, at this sale. Send bids early that they may reach Mr. Boesiger in plenty of time.

DeKalb's Hampshire Sale.

On March 12th, H. D. DeKalb, Dekalb, Iowa, will make a public sale at Council Bluffs, Iowa, of sixty head of the best Hampshire sows that have ever been listed for a sale in the West. It will be remembered that Mr. DeKalb made a sale a couple of months ago at the same place and that proved the best sale ever made in the West up to that time. In fact, it was such a success that Mr. DeKalb is going back again with sixty sows that for breeding and individual merit cannot be excelled. The DeKalb herd is one of the oldest in the state of Iowa and the West, and many of the most noted prize winners have been descendants of sires and dams bred and used by Mr. DeKalb. In his forthcoming sale he expects to surprise the breeders with an offering such as has never before been listed for a western sale. Many of these sows will be bred to DeKalb's King 15th, a young boar bred by himself and now in service in his herd. Without question this is the best young Hampshire boar we have ever got our eye on and we have seen some boars in our time. He is a son of Mr. DeKalb's old boar, Major, that in turn was a son of that celebrated boar, Stone's Duke, he by old General Munson. It will be remembered that Stone's Duke was out of Madam Aylor, the noted grand champion sow at all of the leading state fairs and also at the World's Fair at St. Louis. The dam of this young boar is Jennie Aylor's Best and she was a daughter of old Major, and he therefore carries a double cross of Stone's Duke and Madam Aylor. A student of Hampshire breeding will find that this young boar carries more of the blood of old Stone's Duke than any boar now living. He is an outstanding good one, has an ideal Hampshire herd and a good eye, a splendid back and spring of rib, good length and depth of body, well filled in the hams and has more quality than any Hampshire boar we have ever looked at. After looking him all over you will say he has fewer holes in him than any boar you have ever looked at. There will be fifteen sows in the sale bred to him. Those of our readers who are interested in Hampshire hogs can secure a copy of the DeKalb catalog if they will only write their name and address on a postal card and send it to Mr. DeKalb and mention this paper.

The Missouri Auction School.

The January term of the Missouri Auction School is on with eighty-five students enrolled, and on February 3d the next term will commence. Colonel Carpenter desires to have all who are interested and contemplate taking a term know that they may enroll any time during the January term and finish with the February class, thus securing the advantage of extra training during the last of the January term. The actual practice sales conducted in the auction house conducted by Colonel Carpenter and in the city horse market gives students ample practice selling all kinds of merchandise and live stock. The instructors, who have proven so proficient in this line of work, are retained and the working organization is such that students who attend the Missouri Auction School receive instruction that is of untold value to them in their chosen profession. Colonel Carpenter will gladly mail you his latest catalog on receipt of your request for same, mentioning this paper. Note page 46 for advertisement.

Standard Poland China Record Association Meeting.

The annual meeting of the stockholders of the Standard Poland China Record Association was held at the live stock pavilion at South St. Joseph, Mo., Wednesday, January 8th. A banquet was tendered those in attendance by the Live Stock Exchange at the Transit House the evening preceding the meeting. F. P. Robinson, Maryville, Mo., was elected president for the ensuing year and the old vice-presidents from the various states were re-elected. The new directors are H. L. Faulkner, Jamesport, Mo.; W. O. Garrett, Maryville, Mo.; B. F. Gilmore, Sheridan, Mo.; John W. Lawson, Clarinda, Iowa; T. J. Meisner, Sabetha, Kan., and J. R. Roberts, of Oklahoma. It was decided to hold the next annual meeting at Maryville, Mo., and a vote of thanks was tendered the Live Stock Exchange for the favors shown the association at the various meetings held at St. Joseph. The members of the Live Stock Exchange were also tendered an invitation to attend the meeting at Maryville next year when a banquet will be given in their honor.

Pedley's Prize Clydesdales.

Jas. Pedley, Britt, Iowa, makes an announcement on page 42 of this issue which will be of much interest to Clydesdale fanciers. He is offering for sale a full brother to the stallion, Forest King, that has made such a grand record at the Iowa State Fair the last few years. There are some excellent judges who pronounce King Robert, a grandson of Baron's Pride, a better horse tha nhis brother, Forest King. One of the nicest things in the Clydesdale line is a yearling stallion colt sired by Forest King, out of a good brood mare that is also for sale. He is a very big colt, will develop more size than his sire and will be just as good, and has everything in his favor. The mare is a fine sort of a brood mare, a producer of the right sort as shown by her stud colt, and is priced right. Write Mr. Pedley and ask him about these horses. He will give you an honest description and a square deal. Address James Pedley, Britt, Iowa.

J. O. James' Big Oranges.

One of the best offerings of Poland China bred sows that J. O. James has ever sold at public auction will be ready for his coming sale at Braddyville, Iowa, on February 7th. Those who want daughters of that noted old boar, Big Orange, will find them in this sale in good and plenty. In other words there will be eighteen head of outstanding good spring gilts and three very choice fall sows by Big Orange in this sale, and many of these will be bred to his well-known boar, Big Sensation. Here is a cross that should make good, as it is a commingling of blood lines that has made good. About ten sows in his offering will be bred to Big Orange, and these are his very best brood sows. Then he has a lot of sows that are bred to his great yearling boar, Ott's Big Orange, and these will be good propositions to buy. Many of the Big Orange gilts in this sale will weigh 400 pounds or over by sale time, so you will know they are good. Among the many good Big Orange gilts in his sale are Nos. 1 and 2 that are litter sisters to the Story and Walker boars that sold in his fall sales for $225 and $200 last fall. These are outstanding good gilts and should bring good money. There are quite a few others that are about as good. The breeder who buys sows bred to Ott's Big Orange or Big Sensation will get good bargains, because these boars are growing stronger in the minds of the best breeders every day. There will be a wide variety of breeding in his sale this year, such as daughters of Long King, Pawnee Nelson, Big Sensation and other good boars. He is offering a combination of Big Orange-Pawnee Lad-Giantess-Longfellow King blood lines that have been the standard among big-type breeders for several years. It is a good offering from beginning to end. Write Mr. James for his catalog at once and mention The Homestead. M. T. White will represent The Homestead at this sale and will care for any bids sent in his care. See advertisement on page 48.

Westerhoff's Poland China Sale.

On Tuesday, February 4, 1913, Henry Westerhoff, Wynot, Neb., sells forty head of Poland China bred sows at his farm on the edge of town. The sale will be held off a little from the time usually set to allow anyone who might wish to come in on the Omaha from the East to be in good time for the early part of the offering. Mr. Westerhoff has in his herd a boar he calls A Wonder, but he is of a slightly different line of breeding than the other boars of this name. He is by Sunny Slope Chief, out of a Remington sow, Lady Wonder 6th. The boar has been a good breeder, producing considerable size, in smooth packages. The gilts by him are grown out to about 300 to 325 pounds, possibly more in a few instances, and being bred to the young boar, Big Longfellow by Dorr's Expansion, out of a daughter of A Wonder 107353 are the kind of hogs the farmers are looking for and that breeders are buying to supply the farmer trade. The spring gilts are by A Wonder 60397, Long King, Hadley's Mogul by Hadley's Surprise, Mastiff's Pointer by King Mastiff, and are bred to the Dorr's Expansion boar above noted. The entire offering is worthy and can be recommended to people looking for good stock without expecting grand champion prospects, but practical hogs to make money on the farm. Write for catalogs, mentioning The Homestead. Address John Westerhoff, Wynot, Neb. See page 40.

Smith & Son's Sow Sale.

One of the very best offerings of Poland China bred sows to be held this winter will be the one presented by Albert Smith & Son, Superior, Neb., Tuesday, February 4th. A splendid lot of big, roomy, growthy spring gilts, thirty-eight in number, in additon to five fall gilts and two tried sows, will constitute the offering. The gilts, a remarkably growthy bunch of March farrow, are by such well-known sires as Big Sam by Sampson, Big Quality by Blue Valley Quality, Smith's Big Hadley, Jumbo Jr. and Victor Prospect and are bred to Jumbo Jr. by Nebraska Jumbo; Victor Prospect, a son of the noted Big Victor, and Mogul's Monarch by Mogul. Two tried sows, Queen's Victoria, a litter sister to Lonergan's Big Victor, and White Ear by Chief of Pawnee 2d by Chief of Pawnee will be offered as special attractions. Both have proven themselves among the best producers in this herd. In addition to the hogs five spring Short-horn calves, four heifers and one bull will be sold. The latter, a great prospect, is by Cedar Hill Pride and out of Orchard Lady and the heifers are by General and Cedar Hill Pride. If you have not received a catalog send for one at once and arrange to attend the sale. The sale will take place on the farm, nine miles northeast of Superior and two miles southeast of Cadams. If unable to attend the sale bids sent to John C. Halderman, who will represent this paper, sent in care of these breeders, will be carefully looked after. See page 43 and in writing mention this paper.

Young Breeders of Short-horns Have Good Chance at Oxley's.

Once in a while a breeder of live stock who has no wide acquaintance will sell either at public auction or by private sale a bunch of stock which deserves real attention on the part of buyers from a distance. Oscar Oxley, Corwith, Iowa, on January 31st sells about twenty-five head of Short-horns which we would advise young breeders looking for chances to buy pure-bred cattle of this breed which will pay their way, to look over. They are all in calf to a great Scotch bull, Corwith Goods by Carter's Choice Goods, and include some of the good families of the breed, as Seraphina, Young Phyllis, Elizabeth and Victoria. There are cows right in their prime as producers and some young calves which are worth buying for future disposal. There are two especially good roan bull calves by the Corwith Goods bull, he out of an imported Brawith Bud cow, Imp. Golden Wreath 12th, that most any breeder could take and make money on when they are grown out for service. They are both July calves, out of a cow, Rose Seraphina, and her daughter. This sale offering, though small, should attract the attention of young breeders who want moderate-priced starting stock. The whole herd is strong in milking strains, and has been built up on the "pay for itself" plan by Mr. Oxley, who is moving to Minnesota to a newly purchased farm and will be unable to take care of so many head of cows there. It must be borne in mind that the bull, Corwith Goods, a pretty roan, is a real good type of Scotch breeding and the young stock in the herd show him to be the right sort of a breeder. Write for a catalog of this sale, mentioning The Homestead. Sale is at farm, four miles southeast of town. Address Oscar Oxley, Corwith, Iowa. Address Oscar Oxley, Corwith, Iowa. See advertisement on page 49.

Gilsaman's Holstein-Friesian Sale.

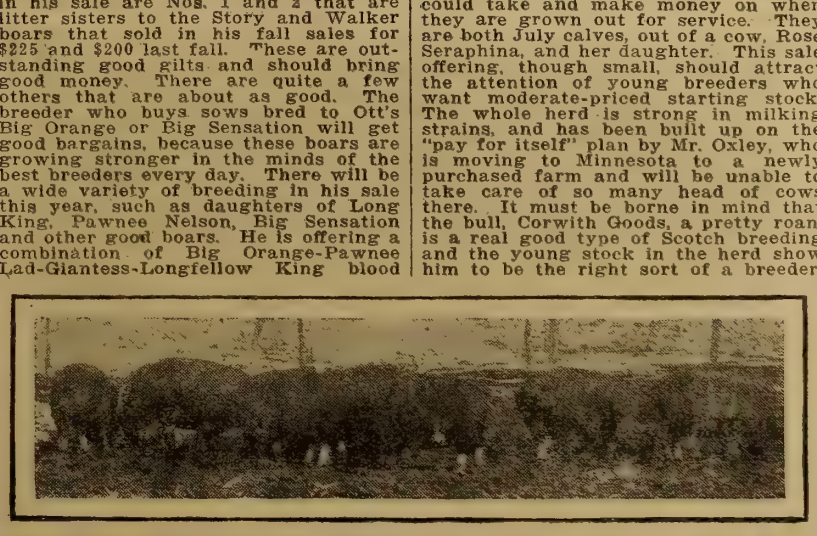
One of the greatest strings of Holstein-Friesian cattle that has ever been offered here in the West will be the dissolution sale of H. C. Gilsaman, at South Omaha, Neb., on Tuesday and Wednesday, February 4th and 5th. The senior member of this celebrated Rock Brook herd is retiring from the firm and this dissolution sale. They are selling 125 head, eighty of which are registered cattle and the remainder will be high-grade Holstein-Friesian milk cows and heifers. There will be forty head of registered cows and heifers whose breeding and individual merit is all that could be desired. There are a number of cows in this offering with A. R. O. records, and some of them with records of 1,700 pounds of milk in a single year. Most of these cows are milking or will soon be fresh, and besides these there will be twenty choice two-year-old heifers. These females will all be bred to sons of either King Segis, King of the Pontiacs or De Kol's 2d's Butter Boy 3d, three of the greatest bulls of the breed. There will be ten bulls in the sale that are sired by the most noted sires of the breed, and are out of dams with A. R. O. records. There will be forty-five head of high-grade Holstein-Friesian cows and heifers in this sale, many of them sired by noted bulls, and these are strictly right for those farmers or dairymen who are looking for good milking cows. Never before in the West have so many or so good an offering of Holstein-Friesian cattle been listed for a sale here in the West. The catalog is now ready for distribution and will only be sent on application and provided you mention this paper when writing for it. See page 50.

Deierling & Otto's Mammoth Jacks and Jennets.

Deierling & Otto, Queen City, Mo., have in their barns in town and on their farms near Queen City a greater string of Mammoth jacks and jennets than they have ever owned before. These gentlemen have always been interested in the Mammoth jack, either as breeders of jacks and jennets or high-class mules, hence they know the kind that make good, siring superior stock. In 1912 these gentlemen made the strongest shows and their stock won a great string of prizes. At the Missouri State Fair, the strongest show of the year, the following prizes were won: First on jack four years old and over, fourth on jack three years and under four, first on jack two years old and under three, first on jack one year and under two, first on weanling jack colt, second on aged jennet and second on jennet under one year old. At the Illinois State Fair they won every first prize but one on jacks, had champion jack, won second prize on aged jennet and second prize on aged herd. The prize-winning jacks are, with the exception of one, for sale and our readers looking for jacks standing from fifteen to sixteen hands high, with plenty of bone, substance, quality, head and ears should not fail to see these. On Mr. Deierlings farm is found the greatest load of big mules the writer ever saw and as they are largely the product of jacks these gentlemen have bred or owned the visitor will see that they are breeding and handling the kind that sire market-topping mules. Deierling & Otto want you to come and see their stock. Queen City is on the Des Moines, St. Louis line of the Wabash. Note page 42 for their advertisement and when writing or visiting these gentlemen kindly mention having seen their advertisement in this paper.

Schram's Excellent Poland China Offering.

C. W. Schram, New Castle, Neb., whose sale of big Poland Chinas occurs next week, January 30th, has an offering of a lot of worth, both in blood lines and the type of hogs that will be sold. He has planned carefully the method of mating he has wished to use and then has bought individuals that have pleased him for breeding purposes. As a result his herd is big, but has quality as well, making it an ideal foundation for a profitable pork producing herd. There are several sows in this sale that for symmetry throughout, smoothness, size and bone are worthy a place among the leaders of the breed, and they all come from sows that have been producers on this farm. We would like to call especial attention to the two sows, Arabelle and Mollie Fair, both by Fair Chief, a son of the famous Chief Price 2d, out of Fair Maid 2d, and out of sows by Expansion Prince. This combination of blood has certainly proved a winner and the sows bred to Hadley's Mogul, a boar by Hadley's Surprise, are prospects for placing right blood lines that stand for plenty of size at an early age in herds where this is a prime object. These sows need not be passed up because of a fear of lack of bone or stretch, for they are both "there" with these points. A two-year-old sow, rather a common looker just now, but a big one and built well for pork production, is Lady Wonder by Fair Chief, dam by A Wonder 107353—the Fesenmeyer boar, Villisca Belle, also one of the matured sows by Young Look by Young Tecumseh, dam Nodaway Belle, is the kind most people would keep in their herds, but Mr. Schram is keeping some other good ones and can let her go. There are gilts by Hadley's Mogul that have made good size, and though they have not reached their complete development, they have been kept going steadily to give room for development by their future owners. They are big now, even in width and wide, too. There are also a number of spring gilts by Mastiff's Pointer.



SOME CHOICE POLAND CHINA SOWS. SEE FIELD NOTE OF CARL ROSENFELD, KELLEY, IOWA, ON PAGE 36.

a great son of the champion, King Mastiff. These gilts are much the same in type as the Hadley Mogul gilts. Write in for catalogs of the sale and if wanting to buy real toppy stock from a herd not yet well known, but which will be if the past methods are followed, come to the sale on January 30th. Address, mentioning The Homestead, C. W. Schram, New Castle, Neb. See page 46.

Cooper's Poland China Sale.

The work of W. H. Cooper, Hedrick, Iowa, is an excellent example of what a man with little resources can accomplish with energy. A few years ago Mr. Cooper was working on a farm by the month, but he saved his money and started in the breeding of pure-bred Poland Chinas. What it has done for him is known by most Poland China breeders. Today he has a beautiful modern farm home and the best equipped hog farm in the state. This has been accomplished by good work, good judgment and applying the golden rule when dealing with his customers. On February 4th Mr. Cooper will hol his annual sale of bred sows and this year he has the best offering he has yet been able to put up. Twenty-five head of great yearling and two-year-old tried sows will be sold and a few fall yearling sows. The balance of the offering will be gilts that are large, long, heavy boned and many of them will weigh 400 pounds sale day. The very best blood lines of the breed are contained in the pedigrees in Mr. Cooper's catalog. Mr. Cooper has never lost sight of the value of a herd boar and the boars these sows are bred to are the best Mr. Cooper could obtain regardless of price. If you want a good, big Poland China sow bred to a good boar write Mr. Cooper for a catalog, mentioning The Homestead, and arrange to attend the sale. See advertisement on page 50.

Maasdam & Wheeler Sell Percherons.

Maasdam & Wheeler, Fairfield, Iowa, well-known breeders, importers and exhibitors of Percheron horses, have recently sold to C. L. Anceney and H. W. Child, of Montana, probably the best two-year-old Percheron stallion imported this year, together with several of the best Percheron mares they had. This young stallion was pronounced by good judges to be one of the best and largest two years old imported this year and was being held in reserve for next year's shows by Maasdam & Wheeler. In this stallion Messrs. Anceney and Child secured the best individuality and breeding that could be obtained, but both of these gentlemen are excellent judges of live stock and knew what they wanted. They had visited the International Stock Show looking for a stallion, but finally decided that this colt was the one they wanted. The mares they secured are one of the best bunches that ever left the Mississippi valley. They also purchased through Maasdam & Wheeler fifty Short-horn cattle from Iowa breeders and in these they secured excellent individuals combined with good breeding. Montana is to be complimented on having such enterprising gentlemen within the borders of the state. It is such men as these who build up the live stock industry in any country. Maasdam & Wheeler have an exceptional lot of two, three and four-year-old imported stallions weighing a ton and imported and home-bred mares of all ages that they will price worth the money. Visitors are always welcome. Write them for any information you want, mentioning The Homestead. See page 55.

Swan & Ellis' Sow Sale.

On February 8th, Swan & Ellis, Indianola, Iowa, will make their first annual public sale of forty head of Duroc Jersey brood sows, and while this is their initial appearance in the public sale ring, they nevertheless are listing a splendid lot of sows for the occasion. One of the chief attractions in their sale will be the boar that now stands at the head of their herd. This is I Am A Crimson Wonder II., a well-known prize-winning boar himself and the sire of prize winners. This hog is a son of I Am A Crimson Wonder, one of the most sensational young boars that was ever shown at the Iowa and the Nebraska State Fairs. This was the great son of Crimson Wonder Again that John Morrison paid Will Sells $500 for, and he in turn was out of that celebrated brood sow, H. A.'s Queen. After a long search for a boar Swan & Ellis bought this hog of Mr. McDuff, who in turn bought him at the Beem dispersion sale. He was a second-prize winner at Lincoln and Hutchinson and was also a first-prize winner and champion boar at the Interstate Fair. He sired the first-prize and junior champion pig at Lincoln in 1911 and a number of others that were winners then and since. He is a splendid individual himself and, best of all, he is a great breeding boar and these gentlemen are selling thirty-four head of sows in this sale bred to him. The best sows they are offering will be bred to this boar. Among these are four splendid daughters of the old champion boar, Crimson Wonder Again, and some of these are just as good brood sows as you will see in any sale this winter. There will also be a daughter of the great boar, Superba; Valley Chief; L. E.'s Col.; Wonder Chief; Freed's Col., and Ohio Col. Besides these there will be two splendid gilts by Col. Gano that are simply choice and have plenty of size. Two others that will not be overlooked in their sale will be daughters of Muncie Prince and these have all kinds of size and quality. In next week's issue we will individualize on the several choice sows they will sell in this sale. In the meantime remember to get a copy of their catalog and when asking for it kindly mention The Homestead. Bids sent to M. T. White, in their care, will be attended to on day of sale. See page 41.

Skillen's Duroc Sale.

R. M. Skillen, Greene, Iowa, a well-known breeder of Duroc Jerseys, will hold a sale of forty bred sows on February 10th at his farm. Mr. Skillen has been breeding Durocs for many years and has constantly worked an improvement in this herd. Chuck's Model is a son of Model Chief that Mr. Skillen has been using in the herd for two years and he is siring a great lot of stuff. There will be eleven fall yearling sows in the sale by Chuck's Model and they are a fine lot of sows, all being bred to Prince of Wonders, a son of Crimson Wonder Again, and this cross should result in some excellent litters. There will be one two-year-old sow by the Ohio champion, Kelly's Pilot Wonder; three by Waveland Ohio Chief by Ohio Chief, and twenty-five spring gilts sired by Select Goods, Merfield's Wonder, Waveland Ohio Chief and Chuck's Model. There is a litter of five gilts by Select Goods, he by Chief Select and out of a dam by Tippy Col., that are worthy of mention. A number of the gilts are bred to Skillen's Col. Gano, a full brother to R. J. Harding's noted prize-winning sire, Col. Gano, and the balance of the offering will be bred to Chuck's Model and Advancer Chief by Model Advance. Mr. Skillen's offering will look very good sale day to the man who wants high-class Durocs and we urge all interested to write for catalog at once, mentioning The Homestead. Send bids to Carlos C. Palmer, representing The Homestead. See advertisement on page 49.

Robinson's Greatest Sale of Mammoth Poland Chinas.

The sale of mammoth Poland China bred sows and gilts which F. P. Robinson, Maryville, Mo., will hold on Wednesday, January 29th, at Maryville, is one of the opportunities of the year to get hogs with size and quality that are so bred that they will produce their kind. Fifty head of tried sows and gilts, two tried herd boars and twenty fall of 1912 pigs are listed. Mr. Robinson has never sold any but such as in his judgment will make good and his guarantee in the catalog of this sale is so broad that the buyer runs only the risk of accident or death. Mr. Robinson's great herd boar, Pawnee Pete, conceded to be one of the greatest of the hogs that actually have weighed over 1,000 pounds, is well represented in the sale. His dam, Miss Corwin, a number of his daughters and granddaughters are listed and bred to boars that Mr. Robinson has such confidence in that he uses them on his reserve brood sows. Prince Ito, the boar Mr. Robinson says is the best boar he ever owned, is also represented by a few head. This boar was lost while being fitted last summer. He weighed better than 1,000 pounds, was a great sire of sows and those in this sale should be appreciated. His brother, Prince Tom, is well represented in the offering and they are the same kind. Mr. Robinson thinks so much of the get of Prince Tom that he is keeping a number of his daughters and several sows bred to him. Prince Tom will be included in the sale, as Mr. Robinson has so much of this blood in his reserve herd. He will make good in most any herd needing a good breeding boar that will get size and quality. Pete's Best, a full brother to the great Pawnee Pete, but two years younger, is also listed. He would not be sold but old Pete will not be fitted again and is just in his prime as a sire. Mr. Robinson is reducing his herd of brood sows and many that would not be priced under other conditions are selling. He is listing twenty-one head of these yearling and two-year-old sows, three fall yearling gilts and twenty-six head of as good big spring gilts as will go in a sale this year. These sows and gilts are bred to Pawnee Pete, Prince Tom, spotted King, a son of Long King's Equal, and Lady Jumbo 3d, Fred Jamison by Pawnee Pete, Tom's Model, a Prince Tom boar reserved for show, and Monticello Boy by Big Expansion. This latter boar was first-prize boar pig in under six months class at Missouri State Fair last year and third at Iowa. Mr. Robinson thinks he is the pig to use on Prince Tom and Pawnee Pete gilts and many are bred to him. Mr. Robinson is desirous of sending his catalog to all who are interested and will write for same. His herd boars are illustrated and the breeding will be seen to be strictly first class. Note page 49 for the advertisement and when writing Mr. Robinson kindly mention this paper.

WM. RETZLAFF'S
ANNUAL SALE

DUROC JERSEY BREDSOWS

Will be held on the farm 4 miles southeast WALTON, NEBRASKA,

Tuesday, February 4th

THIRTY head of choice sows will be listed and they are every one of the sort that we would retain for our own use. We are selling sows that we would much rather keep, but we are selling close to make up the sale offering. Some of the very best that is in the herd will go in this sale. Some daughters of Crimson Critic, as choice sows as will be sold this winter are listed. Others are by Sensation Again by Wallace's Wonder, Col. Stoner by King of Cols., Queen's Crimson by C. W. Again, Lincoln Wonder by Ohio Chief and a few others. They are bred to Sensation Again, Gold Col., Col. Willetta 2d and Crimson Advancer. Try to arrange to be with us sale day. Walton is eight miles east of Lincoln and on Mo. Pac. Also free transportation from Bennet on the Burlington. J. C. Price is the field man. Col. W. J. Thompson, auctioneer. Address for catalog

WM. RETZLAFF, Bennet, Nebraska.

Larson's Large-Type Durocs.

The Duroc breeder who is wanting to buy some big-type sows will find some that will strike his fancy in the O. S. Larson sale at Logan, Iowa, on January 30th. He is one of the breeders who has been getting all kinds of size in his herd of late years and his offerings always make the boys sit up and take notice. Mr. Larson is certainly putting up an attractive offering this time, as he is selling twenty-five of his very best sows bred to that noted boar, King The Col. You might say that Mr. Larson made his reputation on this King The Col. breeding, as he got them so big that everybody wanted them. He sold the old boar, but after Col. Gano came into the limelight he went back and bought the old hog back. While, of course, Col. Gano is the best thing that King The Col. ever sired, yet he has sired other good ones that were so far above the general average that everybody is now wanting sows bred to him. We cannot do our friends a better service than to urge them to attend the Larson sale and buy sows bred to this noted sire. He has a lot of good ones listed, among which is a daughter of the grand champion boar, B. & C.'s Col., two choice gilts by Chief Select and two by old Advancer, and these are all bred to King The Col. He is selling two splendid fall sows that are full sisters to Col. Gano and one Col. Gano gilt bred to King The Col. He is selling four daughters of King The Col. in the sale and these are practically full sisters in blood to Col. Gano. Besides these there will be daughters of Proud Col., Golden Model 11th and other well-known sires. The place for you to buy sows this year bred to King The Col., the sire of the great Col. Gano, will be in the O. S. Larson sale. Bids sent to M. T. White, Homestead representative, in care of Mr. Larson, will be looked after on day of sale. See page 52.

One of the herd boars that sells in the D. K. O'Day sale, February 4, 1913. See advertisement on page 51 of this issue.

Algona Sale of Poland Chinas.

A sale of Poland Chinas at Algona, Iowa, by J. M. Glasier, of that place, at the Kossuth County Fair Grounds, is an attraction for Wednesday, February 5th. Mr. Glasier has been gathering together in a quiet way a really first-class herd, and is offering a draft from it to the appreciation of breeders looking for quality goods in this breed. His gilts will have more than the average size at the sale and there are some sows in the catalog which are good property to look for. Breeders will find lots of good things here and the quiet way Mr. Glasier has built up his herd means an advantage to buyers in this season when high-class brood sows will be needed so badly. Heading this herd lately has been Big Kossuth, a big boar by Ellerbroek's A Wonder, out of Mollie B. 2d, out of Mollie B. by Chief Leader dam, old Mollie Fair. A number of the spring gilts are by him and out of some sows that won't be bettered much in most of the sales this year. There are one or two brood sows and yearlings in the sale which are equal to the better offerings in any herd. A few are by Up To Date Jr. by old Up To Date, dam Our King, representing the good breeding of W. J. Crow. No. 12 in this catalog is by Longfellow Type, a boar which was produced by mating the big, lengthy Longfellow blood on some sows that carried lots of quality on a big carcass, and his daughters, among which is the fall yearling, No. 12, are good, big brood sow prospects which can be recommended to the most discriminating. This No. 12 is exceptionally good all through. No. 1 in the catalog is a big, roomy sow which is herself an unusually typey sow, but is in addition the dam of a yearling by the great Colosso, which is quite a good prospect. This yearling has two gilts in the sale which for big bone, good feet and size with quality are mighty worthy pigs. They will be bred to Valley Longfellow by Chief Longfellow, dam Valley Wonder by

Blue Valley Boy, a young boar with length and which promises to grow into one of the big ones. He has a very big bone and is exceptionally good on his feet. The other service boar is Count Halvar Jr. by Count Halvar 2d by Big Halvar, a representative in every line of accepted big breeding. His blood lines show the product of the Gritters and Mouw herds in each generation. It will pay breeders to see this offering, and if that is not possible C. C. Carlin, Homestead representative, will take good care of any orders you may send him. Address for catalog, mentioning The Homestead, J. M. Glasier, Algona, Iowa. See advertisement on page 46.

Galbraith & Son's Clydesdales.

Alex. Galbraith & Son, DeKalb, Ill., the old established importers and breeders of Clydesdale horses, call attention in their advertisement on page 40 to the fact that their present lot of horses is unsurpassed by any competitor for quality, action, size, substance, style or fashionable breeding. That tells a big story. For several decades the name of Galbraith has been connected with the draft horse industry of the United States and particularly with the interests of the Clydesdale horse. The senior member of the firm of A. Galbraith & Son is a native of Scotland, with the inherent love of a good horse that has made the representatives of that country so big a factor in the live stock world wherever they are found. Other draft breeds have had the benefit of Mr. Galbraith's aid and experience, but his largest efforts have been put forth for the sturdy Scotch drafter, and as a consequence the high place that the Clydesdale today occupies in the estimation of the American farmer is due in no small measure to the work of Mr. Galbraith and the high-class horses that he has imported to this country. A keen and discriminating judge, a gentleman of the strictest probity, he has earned the respect and confidence of the buying public, has been the means of placing a very large number of high-class sires on American farms, and has been a potent factor in the draft horse world. The stables of this firm are well filled at this time with a class of stallions that should appeal to discrimnating buyers. They are the right sort and among them are several prize winners, including an International champion. That Galbraith & Son handle the right sort of horses has been demonstrated times without number in the show rings of this country, where they have demonstrated their superiority in the hottest kind of competition. Any reader of The Homestead in the market for a representative Clydesdale horse will make no mistake by inspecting what Galbraith & Son have to offer. Not only will the horses be found right, but the men behind them are right and can be depended upon to give the buyer satisfactory treatment.

Davis' Closing-Out Sale of Durocs.

E. W. Davis, Glenwood, Mo., for several years has been a prominent figure in Duroc Jersey circles and breeders generally will regret to hear of his decision to disperse his excellent herd. Mr. Davis has served in the capacity of an advertising solicitor for the Duroc Bulletin during the past year and finds that he cannot give his herd proper attention and for this reason has decided to sell everything at public auction on February 7th. A number of celebrities will be sold, including the grand champion boar, Ohio Col.; the noted show and breeding sow, Model Queen; Chief's Maid, the grand champion sow of Iowa in 1912; Ohio Queen by Ohio Chief, and many other valuable animals. Ohio Colonel is sired by King of Colonels and out of a High Chief dam. He was grand champion of Kansas in 1910 and is recognized as a great sire of high-class Durocs. Any breeder in need of a herd boar should consider well before he passes up this opportunity, as such boars are very seldom offered for sale, either at public or private treaty. Model Queen was grand champion of Nebraska and Kansas in 1910 and sold for $750 to Mr. Davis, which is the highest price paid for a sow during the year 1911. She has proven a valuable brood sow, raising two litters each year, and a number of her daughters sired by Proud Colonel will sell. Model Queen 10th, Model Queen 15th and Model Queen 20th are three fall yearling daughters of the noted Model Queen that were winners at the Iowa, Nebraska and Kansas State Fairs this year. This litter won third in produce of sow, fourth in young herd, fourth in young herd bred by exhibitor and fifth in the get of sire class at the Iowa State Fair. These sows, as well as Model Queen, are bred to Successor, an extra good yearling boar by Advancer No. 1 and out of Mill Hope, a litter sister to the dam of Model Queen. Successor also sells in the sale and he is a good prospect for someone wanting a herd boar. Chief's Maid not only won the grand championship at Iowa this year, but was second at Des Moines and Lincoln in 1911. She is a daughter of Valley Chief and has raised a fall litter by Ohio Colonel and is rebred to him for a middle of March litter. Ohio Queen also raised a fall litter and will farrow March 15th to the service of Ohio Colonel. This sow was third in class at the Iowa and Nebraska State Fairs in 1912 and fourth at Nebraska in 1911. Model Queen also raised a fall litter and the litters from these three sows will sell in the sale. Owing to the fact that these valuable sows have raised fall litters, they will be in much better condition to do good for the purchasers than they would be were they carrying excess flesh. Model Queen 6th is a great daughter of the noted Model Chief and out of an Advancer sow. She is bred to Ohio Colonel for March 15th litter. Keep this sale in mind and see the next issue of this paper for further particulars. The catalog can be had by writing Mr. Davis, mentioning this paper. Bids sent to Carlos C. Palmer, in care of Mr. Davis, will be carefully handled. See page 43 for advertisement.

CHAS. H. MURRAY'S GREAT SALE OF 40 CHESTER WHITE BRED SOWS

WILL BE SOLD AT FARM 3½ MILES SOUTH OF

FRIEND, NEBRASKA, FRIDAY, FEBRUARY 7, 1913

Choice breeding sows, show material of high order and good blood lines will be offered. It will pay you to attend this sale, at any rate be represented.

J. C. Price is the field man. Send bids to him.

Sows and gilts by such sires as Plainview Choice, O. K. Winner, U. S. and others, and mostly bred to U. S. and Fairmont Chief make up the sale.

Mention The Homestead. Address for catalog

Col. W. J. Thompson, Auctioneer.

CHAS. H. MURRAY, FRIEND, NEBRASKA

Retzlaff's Duroc Jersey Sale.

The writer recently called on Wm. Retzlaff, Bennett, Neb., and spent some little time in looking over the sows that will make up the sale of Duroc Jerseys that will be sold by this gentleman on February 4th. The sale will be held at the farm, four miles southeast of Walton, Neb.; six miles southwest of Eagle, Neb., and seven miles north of Bennet, Neb. It is one of the real good lots of sows that will be sold this season that we saw on our recent visit to this place. They are all fashionably bred stuff and they are nicely grown and conditioned. Probably as good gilts as we have seen is the litter sired by Crimson Critic and out of a daughter of Golden Model 5th. Crimson Critic was sired by I Am A Crimson Wonder 2d, the boar now owned by Swan & Ellis, Indianola, Ia., and he was out of the great breeding sow, Royal Blossom 6th, out of the champion, Royal Blossom 5th. Crimson Critic is sure some breeding boar and these gilts are the kind to tie to. Some other extra choice ones are sired by Sensation Again by Wallace's Wonder and out of Sensation Girl by Chief Sensation. Sensation Again is a big, smooth boar and a breeder of merit. We believe he is one of the good breeding boars of the West. The sale offering is largely bred to Sensation Again and to Crimson Advancer, a son of Advancer 5th and out of a Crimson Wonder sow. He is a splendid young boar, in fact, one of the good ones sold in the Beem sale last August. One mighty choice Lincoln Wonder sow will go in the sale and another choice sow is by Belle's Prince by Red Wonder and his dam was Clay Center Belle. These sows are both bred to Sensation Again. Breeders generally will find that it will pay them to attend this sale. Mr. Retzlaff has a good herd and is a lot of support to the Duroc Jersey business in the West. If unable to attend send a bid on some of the choice ones. Send same to J. C. Price, in care of Mr. Retzlaff, and careful selections will be made for you. Mention The Homestead when you send for the catalog. See page 38.

Harding's Great Col. Gano Sale.

On February 3d, R. J. Harding, Macedonia, Iowa, will make his annual public sale of forty head of Duroc Jersey brood sows in the sale pavilion at Carson, Iowa, and he has one of the splendid offerings of the winter season. One of the great attractions of his sale is the fact that he is selling seventeen head of his very best sows bred to that sensational of all great boars, Col. Gano. Just a word at this time regarding Col. Gano. He stands today one of the greatest boars of the breed and this was conceded by most of the more noted breeders who attended the fairs last fall. When it comes to a boar of the size of Col. Gano, and one that has the quality, the bone and the feet and legs that he has under him, we will just say you will travel several days and over several states and we doubt whether you will find him then. Among the splendid attractions in his sale will be Base Moss Duchess 4th, a daughter of old Ohio Chief, and she is also a full sister to Henry Matern's great boar, The Professor. She is bred to Col. Gano for March farrow and should be one of the best propositions in the sale. He is selling four daughters of Chief's Protection, litter mates, and these were all in his second-prize young herd at the Nebraska State Fair in 1912. He also offers his fifth-prize senior yearling at Des Moines last fall and all five of these are bred to Col. Gano for March farrow. Another good sow he is selling is H. A.'s Queen Again, a fall yearling by the champion boar, Crimson Wonder Again, and out of Will Sells' celebrated old broow sow, H. A.'s Queen. She is also bred for March farrow to Col. Gano. One more good sow is a junior yearling sired by Ira Jackson's noted boar, Orion Chief, and she is also bred to Col. Gano for March litter. He is selling twenty fall yearlings, most of which are sired by Chief's Protection. Ten good matured sows and ten gilts make up his offering and fifteen of these are bred to his splendid young boar, R. J.'s Wonder, the boar that topped the Sells sale at Indianola last fall. He is also selling three good junior yearlings by Freed's Col. and two of these are bred to Col. Gano. These were in his second-prize show herd at Nebraska last fall. A few sows go into the sale bred to Chief's Protection and some of the breeders do not want to overlook these, as this old boar has sired some of the best sows Bob Harding has ever raised. Write for the Harding catalog and please mention The Homestead. Bids sent to M. T. White, representing this paper, in care of Mr. Harding, will be handled with care on day of sale. See advertisement on page 47.

Frank Roberts' Poland China Sale.

At Earlham, Iowa, on January 31st, Frank Roberts will make a public sale of forty head of well-bred Poland China sows, bred along the big-type lines, and he is selling some very choice things in his sale. Ten of these are matured sows and six of these will have litters at side by Pawnee Wonder, his splendid son of old A Wonder. In last week's issue we made extended mention of this boar, as he is one of the outstanding good sons of Fesenmeyer's old A Wonder. Mr. Roberts is selling a number of good Pawnee Wonder gilts and these will all be bred to his new boar, Giant Jones, a good son of Big Jones 3d and Wigstone's noted show sow, Hunt's Giantess. The sows he will sell in this sale are bred in the blood of some of the most noted big-type boars used here in the West. He is selling a splendid daughter of Will Shrader's noted breeding boar, Choice Look, and another good sow that is out of a Choice Look dam. He is selling three good daughters of Expansion Jumbo in Long Mollie, Miss Cora and Rosebud, and these will all have litters at side by Pawnee Wonder. There will be three good gilts in the sale by Pawnee Wonder and out of Miss Cora, and these are all bred to Giant Jones. Besides these he will also sell some good gilts by King Wonder, Victor Hadley and other boars. One of the best King Wonder sows is out of Beauty Jumbo, a daughter of Prospect Jumbo, and she is bred to Giant Jones. The farmer or breeder who wants to buy some good sows with litters, or sows bred for early farrow will find some splendid bargains in Frank Roberts' sale. He will also sell a span of five-year-old Shire bred mares in this sale that are strictly choice, and the man who wants a really choice pair of mares should make it a point to attend the sale. He will also sell twenty head of three-year-old fat steers that will weigh 1,300 to 1,400 pounds and they are strictly choice. His catalog will tell you all about them. Write for it at once and kindly mention The Homestead. See page 49.

Barr & Son's Poland China Sale.

On February 4th, at Red Oak, Iowa, those veteran breeders of Poland Chinas, W. H. Barr & Son, will sell forty head of cracking good Poland China sows, and it is an offering that we can recommend to our Homestead readers. At the same time they will sell five bulls, three of which are Polled Durhams and the other two are Shorthorns, and it will be a good place to buy a bull as well as Poland China brood sows. The senior Mr. Barr is one of the oldest and most reliable breeders in the West. We might say he is one of the old originals who in early days helped breed the bristles off and he has been improving them ever since. In their announcement they say: "On February 4, 1913, we will offer forty head of the best sows and gilts that will pass through a sale ring anywhere this winter. They are all of strictly big-type breeding and we wish to impress this fact, and if you will attend this sale we will prove to you beyond a doubt that our herd boars, B.'s Mastodon 59131 and Pawnee Sensation 61473, are breeding a class of hogs that will commend themselves to the buying public. Some of the get of these two boars are bred to the good son of Big Orange called Orange Longfellow, and rightly named, but it isn't all in the boar. We believe that to obtain the best results it is necessary to have high-class sows as well. You can have a board good at one end, but if poor at the other end it won't make a good fence. To obtain best results in breeding we want boars of high merit and require the same in sows, and the forty odd years that the senior member of this firm has spent in breeding Poland China hogs has proven to him that no man has a cinch on the breeding business and that honesty and integrity bring their reward as the years go by and beat trying to catch another sucker every year. You will observe that the major part of the offering is by that prince of sires, B.'s Mastodon 59131, and to those who have never seen him would say he is a 750-pound, two-year-old boar—back, legs and feet, head and ear as near faultless as any you will find, extra body depth and as good ham as you will see on any hog. The Mastodon sows are bred to Pawnee Sensation 61473 and Orange Longfellow. The Sensation gilts are all bred to B.'s Mastodon 58131 and these Pawnee Sensation gilts are a stronger endorsement as to his breeding qualities than anything I could say. So we say to you, attend this sale and we extend to you a cordial invitation, whether you buy or not." Remember their sale will be held at Red Oak, Ia., but when writing for catalog kindly address them at Villisca, Iowa. Please mention The Homestead when writing for it.

Allen's Crimson Wonder Again Sale.

On February 5th, at Chariton, Iowa, H. S. Allen will again make his annual public sale of forty head of high-class Duroc Jersey brood sows, and he again has a splendid offering. He is selling twelve good tried sows, ten fall yearlings and twenty choice gilts. He is selling twelve sows that are bred to his celebrated old grand champion boar, Crimson Wonder Again, and every one a good one. There will be eight daughters of old Crimson Wonder Again in the sale and some of these have been prize winners in his herd. There will be twenty granddaughters and great granddaughters of old Ohio Chief in the sale and there will be more of the blood of Ohio Chief and Crimson Wonder Again in this offering than has ever before been listed for one sale. He is selling twenty sows that are bred to Model Chief 8th and he has been regarded as one of the best breeding boars in western Iowa. Among his best tried sows are the following: Pleasant Hill Lady by Crimson Wonder Again, bred to Model Chief 8th; Lady Defender by the grand champion boar, Defender, bred to Crimson Wonder Again; two good Valley Chief sows bred to Crimson Wonder Again; a splendid daughter of Ohio Chief Again, out of a dam by Proud Advance, and a cracking good sow goes in bred to C. W. A.; Rosey S. by Pride's Chief, bred to C. W. A.; Missouri Lady by Valley Chief and out of old Missouri Girl, a half-sister to H. A.'s Queen, goes in bred to C. W. A.; one yearling by Chief Select, bred to C. W. A.; a good sow by High Col., bred to C. W. A.; two spring gilts by Proud Col., bred to the old boar, as well as several others. Six sows sired by Crimson Wonder Again will be bred to Model Chief 8th. Among these is the first-prize senior yearling at Des Moines in 1912 and a mighty good sow she is. She is out of a Valley Chief dam and her litter will be line bred; one good Chief Select spring gilt bred to Model Chief 8th; five cracking good spring gilts by Crimson Chief Again and bred to Model Chief 8th, and a good tried sow by Valley King 2d, bred to Crimson Chief Again. There are other good things, almost too numerous to mention, in his sale, but the catalog will tell you what they are and all about them. Just a word here about old Crimson Wonder Again. It is one of the last opportunities breeders will ever get to buy sows bred to this noted breeding boar. The old hog, a champion himself, is also the sire of over 100 prize winners, a record that has seldom if ever been equaled by any boar, living or dead. The champion boar at the Illinois State Fair in 1912 was out of a Crimson Wonder Again sow and the grand champion boar at the Idaho State Fair in 1912 was a son of Crimson Wonder Again. He also sired the grand champion boar at the Idaho State Fair in 1911, with 250 head in competition. The junior champion sow at the Iowa State Fair in 1912 was a daughter of his, also the first-prize senior sow. He also sired the first-prize get of sire at the Nebraska State Fair in 1912 and others that we could mention in every leading show throughout the West. His sons and his daughters seem to breed on and have been siring show winners in the strongest classes, so you had better make up your mind to buy some of this blood. Henry Allen always sells a splendid lot of sows and he has them again in this sale. Write for his catalog at once and kindly mention The Homestead. Bids sent to M. T. White, representing this paper, in care of Mr. Allen, will be cared for on day of sale. When writing for catalog address Mr. Allen

at Russell, Iowa, but remember that his sale will be held at Chariton, Iowa. See advertisement on page 48.

Waltemeyer Bros.' Duroc Sale.

The record of Waltemeyer Bros., Melbourne, Iowa, in the show rings of the Iowa, Nebraska, Minnesota and South Dakota State Fairs and the Sioux City fair on their Duroc Jerseys stands almost unparalleled. It is easy enough for a man with ample capital to buy the best animals of any breed and, by having a good feeder, to go out and win at the big shows, but the man or firm who can breed a herd that can go out and pull down the big ribbons at the big shows is the man who deserves the honor of being called a constructive breeder. Of course, a prominent sire will play an important part in any herd, and this is true in the herd referred to above. The great herd boar, Golden Model 2d, has undoubtedly sired more winners at the fairs mentioned above during the last four years than any boar, living or dead. We are inclined to believe the average breeder does not fully realize the value of a great sire. The great work that Golden Model 2d has done in this herd is surely a great object lesson to anyone who has followed the shows. On February 11th Waltemeyer Bros. will sell a grand bunch of sows at public auction. About twenty of these sows will be bred to Golden Model 2d and the man who is wise will buy one of them. However, breeders do not want to lose signt of the sows bred to High Model, grand champion of Iowa, 1912; Golden Model 31st, grand champion at Sioux City, 1912, and Sensation Wonder, the great under-year boar now used in the herd. See page 52 and write for catalog, mentioning The Homestead.

Last Call for Farver's Sale of Poland Chinas.

Breeders who attend E. E. Farver's Poland China sale at Ocheyedan, Iowa, on January 30th, will get to see one of the very best big-type boars in the breed. With all Farver's Goliath's great size he has not that extreme coarseness that so often characterizes the immensely big boars of this breed. He is simply an enlarged edition of the smaller, more compact boar of past Poland China history, and has the prepotency which puts all this size in his offspring. A considerable proportion of the sows in this sale are either bred to him or are sired by him. We believe in him absolutely and are confident that breeders who look him over sale day will pronounce him one of the

greatest of big-type boars. He has gilts to be sold January 30th that will now (January 15th) weigh close to 375 pounds and they all bear his stamp, that same good proportion, big bone and good feet, and these bred to the young boar, E.'s Defender, a prospect for the premier honors his sire, Big Defender, sold by Henry Dorr recently at a big figure to E. C. Caverly, of Illinois, will make very desirable additions to any herd of big-type Poland Chinas. It is too bad that more breeders have not seen Farver's Goliath, for then the excellence of his stock together with the knowledge of the recent accomplishments of Big Defender would tell them that this sale has the best sort of prospects for them. Nos. 1, 2 and 3 and a few others in the first part of the catalog are tried sows which are equal to the best. No. 1, Lady Surprise, is a very stretchy sow, weighs at 600 pounds right now, is by Crow's Big Surprise and being bred to Farver's Goliath is worthy of being placed No. 1 in any catalog. She has a yearling sow and two gilts in the sale. They will convince anyone of her breeding powers. No. 3, Lady Tecumseh, is a big-type sow with a record of producing good individuals back of her, and bred to G.'s Defender. She is wide of back, full and deep in the ham, stands up well, and marked very well. Some of the very best pigs in the last spring's crop were out of her. Those who saw Farver's spring pigs know what this means. An attraction in the sale is No. 10, Long King Beauty, a wonderfully wide, deep, low-set sow with more than usual big bone, bred to Farver's Goliath. She has big breeding throughout and shows it. As stated before in these notes, the gilts will some of them weigh 375 pounds right now, and will crowd 400 pounds sale day without being too fat. There are some gilts from a Thuirer sow, by Thuirer's Big Orange, one especially which is very stretchy and smooth. What looks best are the Goliath gilts out of Lady Tecumseh, Miss Expansion and Dina Prize. They are bred to E.'s Defender. This young boar was considered by his breeder and by many who saw him to be the best pig Big Defender sired last year. He has had a hard season's work and shows it, but there is lots of boar there now. He has the come out of a wonderfully big, long boar and will make a very worthy successor to Goliath when that time comes. It should be remembered that weights in the catalog were taken December 24th. The entire offering is strictly first class and deserves attention from the best breeders. The sale will be held at the farm, a mile east of town in a comfortable place. Ray L. Gribben, of The Homestead, will attend the sale and look after your interests honorably. For catalogs address E. E. Farver, Ocheyedan, Iowa. See advertisement on page 49.

Stevens' Duroc Jersey Sale.

O. R. Stevens, Rippey, Iowa, announces a public sale of Duroc Jersey sows for February 6th. His advertisement appears on this page. Prominent in this sale will be the sow, Lucy Perfection, a half-sister to Big Wonder and seventh-prize junior yearling sow at the Iowa State Fair in 1911. Another good one will be Lady Advance by old Proud Advance and bred to Cedar Hill Chief. The combination of blood is one of much promise and one which breeders will profit by recognizing. Eight gilts are by Harding's Col. Gano, all outstanding ones. There will be gilts by Liberty Chief, Col. Chief, White's Proud Advance and Choice Goods. A fine attraction is a sow by Liberty Chief, out of O. R.'s Fine Sow. The latter was the top sow at Mr. Stevens' last winter sale and later sold at the Tupper sale for $280. Amy Gano is one of the outstanding sows of the sale. She is bred to Big Wonder for an early March litter. She is a full sister to the sow that topped the Harding sale last winter and was herself the top of the Seddon sale. These sows will have been bred to Big Wonder or Cedar Hill Chief. Big Wonder is by I Am Perfection Wonder and is looked upon as a hog of promise. He was fourth in the junior yearling class last fall and since that has gained so much in size and quality that much is looked for from him another year. Cedar Hill Chief is a line-bred Ohio Chief, being a son of Liberty Chief, probably the largest Ohio Chief boar living. Cedar Hill Chief stood next to Col. Gano at last year's show. He will be fitted for next year and has a good deal of promise. For catalogs giving additional details write to O. R. Stevens, Rippey, Iowa.

W. M. Wright's Mammoth Poland Chinas.

We give this week the last notice preceding the sale of Mammoth Poland China brood sows by W. M. Wright & Sons, of Allen, Neb. The senior member of this firm is a hustler and has shown it both in the way he goes after the stock that suits him when he wants it for breeding purposes and also in the way he cares for the hogs when he raises them on his own place. He has followed a very definite ideal in establishing this herd, and as a result has firmly fixed the size he advertises as the product of his breeding operations. Those who visit him now will find a lot of spring gilts with bone and size, and will find them bred to a good sort of boars. The leading characteristics of the whole herd are stated in his catalog announcement, where the aim in establishing the herd is stated to be for "large hogs with plenty of bone and quality as well, so as to get the most desirable hog for the farmer." That this has been accomplished is supported by the fact that the farmers in the neighborhood of Allen who have bought from Mr. Wright are pleased and looking for stock of the same kind. He has produced a farmer's hog, something which should be the aim of every breeder. No one ought to leave the farmer out of his consideration in his breeding, for they are the rocks upon which to build always. If it were not for their desire to breed and feed better breeding hogs the business would very quickly degenerate into a "fancy" stock proposition to be made a plaything instead of a practical thing as it is now. Mr. Wright's hogs are not of the plaything variety, as they can be turned into good money by the man who buys them. Heading this herd are boars that are big, that have lots of bone and have bred well where they have had a chance to prove themselves. The best of these is probably the old herd boar, Wright's Big Bone by the sire of great size, Big Bone, dam one of the famous Maid B. sows, Maid B. 4th. He has put a good bone on his sows and gilts and with it size and smoothness. They look hardy and fit for use anywhere. In mating them Big Bone Jim and Big Wonder have been used. Big Bone Jim is by the great breeding boar, Lyon Chief, that has put so much excellence into E. S. Barker's herd in his offspring. The young boar has inherited his sire's quality of reproducing well, and the gilts by him in the herd stand high as individuals. Big Wonder is by the old boar, Long Wonder 2d, is a rangy boar and comes from a prolific family. There are gilts in this sale representing not only Mr. Wright's best breeding, but the best lines of other herds of well-known, big-type breeders. It is an offering which deserves the presence of good breeders and hog raisers looking to raise the standard of their market stuff. Write for catalogs now and mention The Homestead please. Ray L. Gribben, of The Homestead, will attend the sale and will look after bids sent him in careful and honorable fashion. Address W. M. Wright & Sons, Allen, Neb. See advertisement on page 46.

Droz-Hanks & Bishop Duroc Sale.

An important sale of Duroc Jersey bred sows will take place at Fairfield, Iowa, February 6th. J. C. Droz, of that place, and Hanks & Bishop, New London, Iowa, will join forces in making this sale and we want to say that they have a great lot of sows cataloged. Mr. Droz is selling thirty head, twenty-nine of which are bred to his great herd boar, Cherry Chief. Cherry Chief is the sire of Cherry King, Chief Select, The Chief's Col. and many other noted boars that are recognized as the leading sires of the breed. It will be a great propositon for any breeder who gets a sow bred to Cherry Chief. There will be nine fall gilts by Proud Col. and eight yearling sows sired by The Professor, Golden Model 2d, Jack's Friend, Proud Col., Chief Protection, Col. Defender and Chief Select. The gilts are sired by Proud Col., Crimson Wonder I Am, Model Wonder and Advancer. Mr. Droz is cataloging thirty of the best sows he owns and the fall yearling sows by Proud Col. have extra size and should prove great brood sows, especially when mated to Cherry Chief. The three sons of Cherry Chief above mentioned were out of Col. sows and for this reason we expect excellent results from the Col.-bred sows that are mated to this noted boar. Hanks & Bishop are selling twenty-five head, nearly all of which are gilts. This firm has made a record at the Iowa and Nebraska State Fairs on Durocs of their own breeding and we want to say when it comes to a standpoint of breeding along constructive lines this firm has few superiors. A large part of their winnings have been made on the get of their noted old sire, Model Wonder, he a son of Crimson Wonder I Am. Model Wonder sires the smooth, large kind and we want to say that he has very few equals as a sire of great brood sows. There will be ten gilts in their offering bred to Model Wonder and nine bred to Wonder Model, a son of Model Wonder that won second in the junior yearling class at the Iowa State Fair this year. There will be six sows bred to the noted sire, Proud Col. As to the sows they are selling, there will be one good Model Chief sow, one fall sow by Instructor, four good gilts by Model Wonder and one of them is extra good; four by Proud Col.; four by Proud Ohio Chief; one by the International champion, Highland King, and ten by Col. O., he by Proud Col. and out of an Ohio Chief 2d dam. A sow bred to any of the three boars Hanks & Bishop will be using will be a valuable addition to any herd. This is a high-class offering all the way through and every Duroc breeder should write to either consigner for a catalog, mentioning The Homestead. Carlos C. Palmer will represent The Homestead at this sale. See page 49.

Cherokee Lad 9029, champion of the state fair circuits, 1912. Many of the sows in the Bollman & Sharp sale at Coal Valley, Ill., January 28th, will be bred to this sire. See field notes.

Sale of Prolific Duroc Jersey Sows at J. Schmidt's.

J. Schmidt, Everly, Ia., on Friday, Feb. 7, 1913, winds up a circuit of four exceptionally strong sales of Duroc Jersey sows on his farm six miles north of Everly. The sale held on Friday will enable anyone who attends to be home that week, and no one ought to pass it up on any account. Mr. Schmidt is not extensively known among Duroc Jersey breeders, but he has a herd that ought to be known well. It is deserving of a wider acquaintance. The heading of this note indicates one of the best features of the herd, which will be admitted when the fact that out of the big bunch of pigs farrowed last spring Mr. Schmidt raised 225 head. One of the greatest practical problems in hog raising is to secure strains which are prolific, as the heaviest producers are always the biggest profit makers. As certain a way as any to get started right in this direction is to secure your start from a herd where this characteristic predominates. Then in addition to the fact that Mr. Schmidt was successful in raising such a large number of pigs there is the fact that it made a much larger number to select his sale stuff from. That he is very conscientious in this practice of selecting the very best to go out from his place is proven by the method he followed last fall with his boars. The writer was on this farm during the height of the boar season last fall and saw several barrows from the spring crop of male pigs which would have been very good boars for a great deal of the trade, the kind that are sold from many a herd for good prices. They did not suit their breeder,

GALBRAITH'S CLYDESDALES

are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action, size, substance, style or fashionable breeding. Prices very moderate.

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By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

STEVENS' DUROC JERSEY SALE

TO BE HELD IN TOWN AT

RIPPEY, IOWA, THURSDAY, FEB. 6th

ON the above date I will sell a fine lot of Duroc Jersey sows. Among these are Lucy Perfection (a half sister to Big Wonder), Lady Advance (by Proud Advance), eight gilts by Col. Gano and other gilts by Col. Chief. Liberty Chief, White's Proud Advance, Choice Goods, etc. There will be as a special attraction a sow by Liberty Chief and out of O. R.'s fine sow, the sow that topped the Stevens sale last winter and later sold at the Tupper sale for $280. These sows will have been bred to Big Wonder or Cedar Hill Chief. Write for catalog giving full details.

O. R. STEVENS, RIPPEY, IOWA.

WESTERHOFF'S POLAND CHINA SOW SALE

Wynot, Neb., Tuesday, February 4th

40 HEAD, consisting of 23 fall gilts and 17 of spring farrow. Sired by A Wonder 60397 by Sunny Slope Chief—Puzzle, sire of the Henry Bros.' prize winners at Sioux City. Spring gilts by A Wonder 60397, Long King, Hadley's Mogul and Mastiff's Pointer. Mostly bred to Big Longfellow, a great boar by Dorr's Expansion, dam by the Fesenmeyer A Wonder. A first-class offering, from an absolutely disease-free herd and neighborhood. Col. Z. M. Baird, auctioneer. Sale at farm in town.

HENRY WESTERHOFF, Wynot, Neb.

PUBLIC SALE OF SHORT-HORNS

at farm 4 miles southeast of

CORWITH, IOWA, FRIDAY, JAN. 31ST

20 HEAD Scotch-topped Seraphinas, Young Phyllises, Victorias, Elizabeths, etc. A practical herd of the dual-purpose sort. Cannot take care of all my herd on my newly purchased farm in another state. This is an appeal especially to young breeders wanting stock that will pay their way and prove profitable breeders. Cows bred to Corwith Goods, a son of Carter's Choice Goods and his young stuff in the sale show him to be a good producer. He is out of Imp. Golden Wreath 12th, a cow now owned by Professor Curtiss. Write for catalog, mentioning The Homestead. Address

OSCAR OXLEY, CORWITH, IOWA

however, and he retired them rather than send them away. From the big crop of spring gilts only about twenty-five or thirty head will be sold, a rigid selection that means pleased customers among the buyers. About two-thirds of the spring gilts are sired by Col. Tientsin by King of Cols. by Carl's Col., dam Lady Tientsin by Tientsin II. Col. Tientsin is a big boar, symmetrically developed, on good feet and legs, and breeds a nice class of sows. The younger herd boar, Royal Muncie by Muncie Chief, dam Royal Blossom by American Royal, is the sire of the yearlings in the sale. The yearlings are a stretchy sort, they have well-arched, broad backs and are full hammed. They will be safe in pig to Col.'s Model, a big, smooth fall boar from Grant Lynn's herd. This is the same good boar Mr. Lynn had at Des Moines this year and has developed well in Mr. Schmidt's hands. His sire was Col. Grant by W. L. A.'s Choice Goods, his dam the best brood sow in the Spirit Lake herd, Dallas Queen. She is the dam of Evergreen Prince, the premier herd boar at the farm of Grant Lynn. We can recommend these sows as healthy beyond question, and from breeding strains. There are many things in favor of the entire offering which will be sold in a comfortable pavilion, and believe that the pigs will be appreciated by any visitor at the sale. Send for catalogs, mentioning The Homestead, and your request will receive prompt attention. Ray L. Gribben will give honorable attention to mail bids sent him. Address J. Schmidt, Everly, Iowa. See advertisement on page 45.

Fesenmeyer's A Wonders—Last Call.

Of all the wonders, the great Poland China boar, A Wonder, stands in the front rank of all the noted big-type boars of the breed now living, and the sale of Henry Fesenmeyer, at Clarinda, Iowa, on February 6th, will therefore be one of the decided attractions of the year. Among the forty head that he will sell on the above date, ten are daughters of old A Wonder or carry the blood of A Wonder strongly in their make-up. Further than this, and the important factor in his sale is the number, thirty head in all, that will be bred to this sensational boar. The remainder will be bred to his great young boar, Big Joe. We gave a detailed list of the various sows he will sell in last week's issue and this week we will quote from his announcement: "In this offering of bred sows I am selling eight tried sows, the ones that I have been selling their pigs at $40 and $50 each at weaning time. Also two fall yearlings. Balance are spring gilts. The breeding of this offering is the very best of big-type breeding. The boars they are bred to are known to every breeder of Poland Chinas, east or west, north or south. Heretofore I have been selling mostly at private sale, but want to give you a chance this time to make your own price. I have owned old A Wonder three years now and he has made me a lot of money. He has paid me in breeding service alone $990 in cash and A Wonder's usefulness does not end there. He has at the same time made several times as much for the breeders who got his stuff. The way I look at this is no matter how many sows you may have, if you intend to make a fall sale next year you haven't done all you possibly could do to make your sale a success unless you have a litter or two by A Wonder. Take last fall—the sales generally were a hard proposition, but for all that the pigs offered in sales in the different states sired by A Wonder made an average of better than $75. You don't have to take my word for this. You can look it up in your sale reports. This being a fact, don't it look like good business to buy a sow bred to A Wonder? What others have done you can do. I will give you the details of four bred sows I sold in two different states and only one of them I got over $100 for. I sold D. R. Keeffer, Mt. Carroll, Ill., a gilt. He sold her litter for $490. Also sold the sow for $135. I sold J. B. Morgan, Flora, Ind., a gilt, and by lantern light at that, and he sold her litter for a few dollars less than $700, and last fall sold the sow in his sale for $260. I sold J. O. Stomly, Sheridan, Mo., a bred gilt. He sold her litter last fall for $300.50 and has the sow left. George M. Cantrall bought a sow a year ago last summer in my summer sale for Adam Ashbacker for $112.50. He sold part of her litter in his sale for $407.50 and kept the sow and two boars and two gilts. J. W. Pfander & Sons sold an A Wonder litter five months old for $450 and had one pig left. Now, all these things are history that you can easily verify. Show a merchant an article that will sell as readily and on as big a margin of profit as these A Wonder pigs will sell for and he would fill his store with it. Don't you think it will be good business to buy a sow or two bred to A Wonder? Think it over. These sows went through a light attack of cholera in August, were vaccinated and are immune. All of them were over it two months or more before they were bred. They are safe to go in herds that had disease as well as herds that did not have it. I have sent stuff out since the second day of November in both herds that had disease and clean herds with good results in each case. These sows are more valuable on account of being immune. It eliminates the risk of disease. They will raise their litters, even though you should lose all the balance of your herd. Nearly all my sows got settled at first service, which is proof they are in the best of health. There is no disease anywhere near here, so I extend you a welcome to my sale." M. T. White will represent this paper at the sale and will care for any bids sent in his care. See page 44.

Veak's Duroc Sow Sale.

On February 4th, at Essex, Iowa, C. E. Veak will again make a public sale of forty head of Duroc Jersey brood sows, and he never fails to put up a splendid offering. Twenty-five head in his sale will be sired by his former great herd boar, High Col., and his two younger herd boars, Cherry Prince and Select Chief. The gilts will be sired by High Col., Proud Col., Select Chief, Cherry Prince and Valley King 2d, and these will all be bred to his great trio of herd boars, High Col. 2d, Cherry Prince and Crimson The Wonder, the latter hog being a son of old Crimson Wonder I Am. Mr. Veak is selling some very excellent High Col. sows in his sale. This boar, High Col., was regarded as one of the greatest boars he ever owned and was one of the best boars used in the West in recent years. Owing to an accident he did not live his allotted time and he was cut down in his prime, but not before breeders recognized in him a great show and breeding boar. The best sows he ever sold were daughters of old High Col. and he has some good ones again in this sale. He is also selling daughters of Select Chief, Cherry Prince, Proud Col. and Valley Chief 2d. He is selling a splendid Select Chief gilt, out of High Duchess 5th, and she is bred to his good young boar, Crimson The Wonder. This gilt is a litter sister to Selection, a boar that he is keeping, and he is an outstanding good one. Four extra choice High Col. gilts go in bred to Crimson The Wonder and Cherry Prince. These are out of a Proud Col. dam, that great breeding boar owned by Fred Strong and Henry Allen. He is also selling some very choice gilts by Cherry Prince and by the way, we will just say that in him he has a grand good breeding boar, one that we predict is going to be a grand good breeding boar. He will sell ten or twelve yearling and fall sows that are daughters of High Col. and some of these are cracking good ones. A good Choice Goods sow bred to High Col. 2d will also be one of his best breeding matrons, and a good Proud Col. sow, out of an Ohio Chief dam, is also one of the good things in his sale. This sow was one of the best in the Joe Droz sale last winter. Altogether it is a good offering and breeders will find he has the goods to show the boys when they attend his sale. His catalog is now ready and will be sent on application. When writing for it kindly mention this paper. Bids sent to M. T. White, representing this paper, in care of Mr. Veak, will be properly looked after on day of sale. See page 43.

Dickey-Fain Combination Duroc Sale.

On Tuesday, February 4th, at Emmetsburg, Iowa, F. H. Dickey and H. S. Fain will hold a combination sale of Duroc Jersey bred sows, the selections to be made from the tops of both their herds. There will be sixty head offered at the sale on this day, the opening day of the strong circuit of sales to be held in northern Iowa. There are strong features about both these herds and buyers who may attend this sale will have some nice stock to pick over. Those who attended the sale held by Mr. Dickey last year will remember the great lot of brood sows he kept over for the next season. The draft that goes in from his herd this year is from that same collection of sows. The old herd boar that he has had for several years, and which made such a good impression among the breeders at the Iowa State Fair in 1911, when he was in the pens there, is the sire of many of the gilts. He was a big boar, as big as the boars of this breed usually get, and one of the most prominent features about him was the fact that he was the biggest-boned boar in any of the pens at that time. The pigs he has sired here are the same way, and they also have a lot of the same size as he had. A considerable part of the offering from Mr. Dickey's herd is by Royal Col., one of the good sons of the old champion, Freed's Col. Some of the matured sows that will go in the sale from this herd are the big, stretchy sort that breeders are always searching for. Mr. Fain has a lot of both tried sows and young gilts which are very high class. The biggest and stretchiest are by Fain's Select, a son of old Chief Select. This boar has made a great development since a year ago, and is now a big fellow, with an unusually good front, a strongly arched back, a good big bone and is up square on his feet. Mr. Fain made a ten strike when he bought last year at a sale in western Iowa a sow bred to the prize-winning boar, Missouri Model Top. This sow farrowed only a small litter, but from that litter she raised a boar pig that, if she had farrowed only the one pig and raised it, would have been worth all she would have cost anyone. This pig is called Missouri Model Top Jr. and is one of the most important parts of the herd at this farm. He has grown out very well, indeed, has good length, a strong back, well arched, and stands up squarely on his toes, and has the promise of developing into one of the best boars in this section of the state. Mr. Dickey puts in some very good tried sows, as, for example, Miss K. Wonder by Rex Wonder Jr., Bessie Lady by Crimson Dale by old Dale and Golden Lady by Golden Wonder. These sows are good breeders and are worth taking to some place where the good stock is none too good. He also puts in some gilts by the big-boned old boar, Col.'s King, out of the sow, Roxie, that are very attractive. There is on nearly every breeder's farm one or more old sows that have made exceptional records for themselves, and this sow, Roxy, is one that has done that here. Her gilts are bound to be good ones. Some of the gilts by Fain's Select have made good growth and will be in nice shape by the day of the sale. One of the good litters that has been entered in this sale by Mr. Fain is by Fain's Select and out of a sow by Freed's Col. These gilts have good form and build, are smooth and look to be prospects for the right sort of brood sows. To judge best of the excellence of the offering you had best plan on attending the sale. The catalogs will tell you all about the breeding and you may be sure of finding a well-proportioned lot of pigs here to make your selections from. When you write mention The Homestead. Address either F. H. Dickey or H. S. Fain, Emmetsburg, Iowa. See page 45.

SWAN & ELLIS' GREAT SALE
DUROC JERSEY BRED SOWS
INDIANOLA, IOWA, SATURDAY, FEB. 8TH

30 SOWS
bred to our great boar
I AM A CRIMSON WONDER II.
one of the most noted show and breeding boars now living and the sire of some of the best herd boars now at the head of well-known herds

40 HEAD. 20 TRIED SOWS, 20 GILTS. 40

WE have selected 30 of our very best sows and have bred them to our noted boar I Am A Crimson Wonder II. Among these are 4 daughters of that old grand champion boar Crimson Wonder Again; 2 extra choice gilts by Col. Gano; 2 corking good gilts by Muncie Prince; others by Valley Chief, L. E.'s Col., Wonder Chief, Ohio Col., Chief's Protection, Col. Chief and the champion boars Freed's Col. and Superba. The sale will be held in town with the best of railroad connections. Catalog ready. Write for it and mention The Iowa Homestead. Address

SWAN & ELLIS, INDIANOLA, IOWA

Kraschel, Allen, Putman, Aucts. M. T. White, field man for Homestead.

Lock Stitch Sewing Awl FOR YOU

This Awl
is a wonderful tool and a household necessity. Diamond ground needles and complete supplies including thread, come with every outfit. Can be carried in pocket. This awl will save you many a trip to the shoemaker and harness shop. Given free with a two-year subscription to People's Popular Monthly Great Home Magazine, for only 60 cents.

PEOPLE'S POPULAR MONTHLY
Dept. 2, Des Moines, Iowa

NEWS OF THE SALE RING.

Welch's Percheron Sale.

W. H. Welch held a successful sale of Percheron horses at his farm near Pontiac, Ill. The horses were a strong, useful lot, produced by Mr. Welch under conditions that made for their future usefulness. In addition to the Percherons Mr. Welch sold a number of grade horses and some trotting-bred stock, and a satisfactory clearance was made of everything cataloged. Buyers secured good values, as a rule, yet prices were of such a nature that the sale represented a profit to the gentleman making it. The attendance was large, the weather excellent and auctioneers Reppert, Brown, Merriman, Hughes and Aspel did a good day's work. The detaled list of Percheron sales follows:

MARES AND FILLIES.

Bluen, foaled 1905; Wesley Porter, Pontiac, Ill.	$460
Nig, foaled 1898; R. White, Geneva, Ind.	200
Murmur, foaled 1907; F. A. Patton, Trivoli, Ill.	495
Myrtle, foaled 1908; T. J. Holmes, La Fayette, Ind.	425
Mayme, foaled 1909; J. H. Myers, Croft, Ill.	510
Grace, foaled 1906; Minott Silliman, Toulon, Ill.	500
Graceful, foaled 1912; Cras. Grant, Tonica, Ill.	255
My Lassie, foaled 1906; John Vint, Odell, Ill.	350
Princess, foaled 1912; Chas. Grant	275
Neda, foaled 1907; Chris. Ging, Chenoa, Ill.	400
Neva, foaled 1912; H. W. Rowe, Creston, Ill.	250
Eleoise, foaled 1909; J. H. Myers..	400
Beulah, foaled 1908; Thos. Nolan, Pontiac, Ill.	275
Jessica, foaled 1908; George Prichard, Dwight, Ill.	365
Miss Prim, foaled 1097; B. B. Stevens, Lexington, Ill.	395
Effection, foaled 1905; Joe Kurth, Gridley, Ill.	225
Affection, foaled 1912; R. White...	180
Mircelle, foaled 1911; R. White....	235
Adorable, foaled 1911; Carl Schuble, Pontiac, Ill.	335
May Dawn, foaled 1910; Grant Hayden, Lowell, Ill.	540
Lillian, foaled 1910; Enos Stewart, Lexington, Ill.	305
Violet, foaled 1910; Grant Hayden.	635
Carlotta, foaled 1908; R. R. Wells, Wenona, Ill.	405
Imported mare, foaled 1907; R. White	410
Xenia, foaled 1912; Dr. Harry B. Cole, Macomb, Ill.	240
Victory, foaled 1902; R. White....	320
Fluretta II., foaled 1911; Joe Kurth	300
Dora B., foaled 1910; Paul Hangartner, Roanoke, Ill.	270
Ruberta, foaled 1910; Fred Schwab, Dalkeno, Wash.	525
Florie, foaled 1910; Fred Schwab..	725

STALLIONS.

Pilot, foaled 1906; R. White.....	690
Sultan, foaled 1908; R. White.....	695
Monet, foaled 1909; R. White.....	610
Don Juan, foaled 1910; C. Vanaltvorst, Garfield, Ill.	330
Bloomingdale, foaled 1911; John Sellmyer, Pontiac, Ill.....$....	300
Prince Glorious, foaled 1910; R. White	165
Appollot, foaled 1912; H. W. Rowe	235
Princeps, foaled 1912; R. White...	145

The Dietsch Short-horn Sale.

K. F. Dietsch, Orleans, Neb., held a very successful sale of Short-horn cattle at Scribner, Neb., on January 15th. The sale was well attended by breeders from over the state and a good local gathering was also in evidence. Farmer buyers were conspicuously absent, but a number of young breeders and a few older men with young herds were the chief support of the sale. R. A. Templeton & Sons, Tekamah, Neb., were the chief buyers of the sale. Godfrey Landholm, West Point, Neb., was also a liberal buyer. Victor Star, the choice son of Morning Star, went to head the young herd owned by Aug. Arps, Dodge, Neb. He was the top of the sale, selling at $265. Counting out ten calves sold separate from their dams, the offering made an average of $105 per head. Colonel Callahan did the selling and was in fine form. His clean-cut, fair and square method of selling had much effect on the buyers. Those selling for $100 or more are given below:

BULLS.

Victor Star, calved April, 1911; August Arps, Dodge, Neb.....$	265.00
Golden Star, calved January, 1911; Valentine Thomas, Yutan, Neb.	126.00
Teddy Star, calved April, 1911; Victor Landholm, West Point, Neb.	125.00
Roan Rex, calved January, 1911; Gust Weigle, Hooper, Neb....	131.00
Barmpton Star, calved April, 1911; Nick Gaspers, Lindsey, Neb.	105.00

COWS.

Scotch Lass, calved May, 1909; R. A. Templeton & Sons, Tekamah, Neb.	154.00
Marigold, calved January, 1910; M. Stenvers, Hooper, Neb.....	177.50

Roan Lass, calved January, 1909; Godfrey Landholm	155.00
Barmpton Lass, calved 1906; R. A. Templeton & Sons	102.00
Gracia, calved 1904; Godfrey Landholm	129.00
Gracia 2d, calved 1910; R. A. Templeton & Sons	117.00
Gloster's Maid 2d, calved 1911; R. A. Templeton & Sons	105.00

Following is the report of Walpole Bros.' sale of Short-horn cattle at Rock Valley, Iowa, on Tuesday, January 7th. The Walpole Bros. seem always to strike bad luck in the weather on their sale dates, and this year was no exception to their rule. An average of $134.50 was secured on the forty-six head sold, the bulls averaging $153 and the females $130. Buyers were scattered from Dakota, Minnesota and Iowa. The top of the sale was No. 2, Princess, selling for $280 to C. A. De Vaul, Inwood, Iowa. The bulls did not bring what they should, being an exceptionally high-class offering. The sale was conducted by Col. Geo. P. Bellows in his usual satisfactory manner. Those selling for $100 or more are listed below:

Honey Flower, calved 1904, and c. c.; Held Bros., Hinton, Iowa.	$175.00
Princess, calved 1904; C. A. De Vaul, Inwood, Iowa	280.00
Princess 4th, calved 1909, and c. c.; Cahill Bros., Rockford, Ia.	180.00
Fair Maid 2d, calved 1905, and c. c.; E. J. Thompson, Huxley, S. D.	220.00
Fair Maid 3d, calved 1908, and c. c.; E. W. Carr, St. Lawrence, S. D.	127.50
Fair Maid 4th, calved 1909, and b. c.; F. W. Harding, Waukesha, Wis.	265.00
Fair Lady, calved 1908, and c. c.; D. R. Jones, Linn Grove, Iowa.	122.50
Fair Lady 2d, calved 1909, and c. c.; E. R. Silliman, Colo, Iowa	175.00
Fair Lady 3d, calved 1910, and c. c.; F. W. Harding	200.00
Fair Mary, calved 1910, and b. c.; H. G. McMillan, Rock Rapids, Iowa	150.00
Diamond Queen, calved 1905; Diamond Queen, calved 105; Held Hel dBros.	175.00
Blythesome Girl 8th, calved 1906; W. J. McLean, Rock Valley, Ia.	205.00
Queen Victoria, calved 1908; E. R. Silliman	165.00
Lovat Princess, calved 1908; H. E. DeVries, Hull, Iowa	112.50
Marchioness Choice, calved 1910; C. A. DeVaul	185.00
Mysie Bloom 2d, calved 1908; H. A. DeVries	102.50
Mysie Bloom 6th, calved 1907; Herman Joseph, Leota, Minn.	127.50
Bride's Maid 7th, calved 1909; A. A. Rose, Hull, Iowa	107.50
Crown Rose 7th, calved 1907, and c. c.; H. A. DeVries	120.00
Glen Wimple 2d, calved 1909; H. J. Von Otterloo, Rock Valley, Iowa	110.00
Violet Star, calved 1910; H. G. McMillan	105.00
Sunflower, calved 1908, and c. c.; Jno. McKeegan, Rock Valley, Iowa	102.50
Albion Lady 2d, calved 1909; E. W. Carr	105.00
Roseblush 2d, calved 1909; John McKeegan	130.00
Emma Elwood 4th, calved 1909; J. L. Wright, Larchwood, Ia.	107.50
Highland Queen, calved 1906, and c. c.; H. H. Powell & Son, Linn Grove, Iowa	120.00

BULLS.

Parkdale Goods calved 1907; John Frick, Hartley, Iowa	225.00
Cumberland Aconite, calved 1912; H. P. Myfle, Rock Valley, Ia.	210.00
Chancellor, calved 1911; Held Bros.	100.00
Billy Sunday 2d, calved 1911; E. Williams, Linn Grove, Ia.	150.00
Emma's Archer, calved 1911; Sullivan Bros., Sanborn, Iowa	180.00
Ruberta's Archer, calved 1911; Geo. Seligel, Alpena, S. D.	165.00
Prince of Orange, calved 1911; John Miller, Rock Valley, Ia.	140.00
The Goods, calved 1910; A. J. Deseter, Mineota, Minn.	147.50

TOO LATE TO CLASSIFY.

25 MAMMOTH JACKS, 25 JENNETS

MISSOURI, Iowa and Illinois prize winners in 1912 and others as good 15 to 16 hands high jacks are priced right. They range from two to five years, have big bone, good heads and ears, and are blacks with mealy points. Come and see them or write mentioning The Homestead.

DEIERLING & OTTO, QUEEN CITY, SCHUYLER COUNTY, MISSOURI

LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10

SELL or trade for good jacks. All registered, mostly imported. 40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. NO PUBLIC SALE THIS YEAR.

W. J. FINLEY, - HIGGINSVILLE, MO.

CHOICE DUROC JERSEY BRED SOWS

I HAVE pursued a line of breeding that is of much value to intending buyers, and as I still have a choice lot of sows of highest breeding and choice individuality on hand will price them where they should sell at once. Mention The Homestead and address at once for full information.

A. J. RUSSELL, - - - CRAB ORCHARD, NEB.

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to Col. Pilot Wonder and Mound's Col. A few extra nice fall pigs, either sex. SMITH & RODGERS, Springfield, Ohio.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Ill., January 17, 1913.—Soft and unseasonable weather, coupled with free liquidation of half-fat cattle, has wrecked the beef trade badly and immediate future prospects are not rosy for the selling side. The general crop of cattle at six western markets this week foots up about 158,000 head, 9,000 more than the week previous and 5,000 in excess of a year ago this week, and it has filled the channels of trade so full of beef that only a twin to genuine winter weather and lighter supplies of beef on foot are likely to open the way to better trade conditions. Through their continued haggling at the market buyers have reduced the cost of weighty cattle very close to $2 per hundredweight from their value here early in December, numerous good, smooth, fat steers having sold here recently around $8.35 that would have brought $10.35 much more readily during the first ten days of December, and ripe heavy cattle that sold here Monday of this week up to $9.50 and which late in the week would have trouble making $9.25 would have been right up in the $11 class had they been here sixty days ago. The range, as predicted in these columns some six weeks ago, is narrowing greatly, the lighter classes of beef steers selling 40 to 50 cents per hundredweight above their value at the time when prime steers were making their record prices. Steers selling now below $7 have no claim to decent beef quality, a spread of from $7.50 to $8.50 is taking the great bulk and only a very thin upper crust of prime bullocks pass $8.75.

The present sluggish condition of the trade and narrow outlets for the higher-costing, well-finished cattle suggests the probability of continued free liquidation of half-fat kinds during the next sixty days and a corresponding decrease in the winter consumption of corn will be the logical result. Packers have served notice by the $2 slump on choice cattle that they have enforced since the December high spot and feeders by cashing in warmed-up stuff are taking the short route out of their dilemna. Two years ago, when corn was abundant, feeders carried a lot of heavy cattle through the winter and when the stock was marketed in the spring feeders found themselves minus their corn crop, consequently they are not in the mood to repeat the experience. Feeders' margin of profit has now practically disappeared and the slump at the yards this week, which amounts to 35 to 50 cents on the bulk of the steers, has merely accentuated determination to empty feed lots. Beef trade at present is a vexing puzzle, but the key to the situation is believed to be that consumers are not getting access to beef at materially lower prices than last fall. Beef steer quotations at Chicago at this week-end follow:

Prime steers, 1,450-1,700 lbs.	$8.75@9.25
Choice steers, 1,230-1,400 lbs.	8.15@8.70
Good steers, 1,230-1,300 lbs.	7.65@8.10
Plain fair beef steers	7.10@7.60
Fancy baby beef yearlings	8.50@8.90
Good to choice yearlings	7.65@8.40
Medium to good yearlings	6.90@7.65
Common to fair yearlings	6.50@6.90
Inferior steers, 850-950 lbs.	6.00@6.40
Common steers, 750-850 lbs.	5.80@6.25

While some slight recessions are reported in stock and feeding cattle values, and some have undoubtedly been obtained at prices 15 to 25 cents below the high values current at the start this week, when prices were fully as high as have ever been paid at this market, actual declines from a week ago are hard to locate. The trade continues remarkably broad, considering the high prices current and the slumpy condition of the fat cattle market and, further than reflecting the plentitude of feed, does not fail to indicate that feeders have confidence in a high level cattle trade next spring and the development at that time of the most acute scarcity of stock and feeding cattle the trade has ever known. Thousands of feeders of good weight and class have sold here this week at $7.15 to $7.50, the best heavy feeders ranging upward to $7.65 to $7.85 and high-class 789-pound Angus yearling feeders making $7.50. Many of the plainer 750 to 950-pound feeders sold at $6.50 to $7 and a pretty well-bred class of 600 to 700-pound stuff within this range. Plain and decent light stockers go around $5.75 to $6.25, but only trash either in the stock steer or heifer line below $5.50. Quotations:

FEEDERS.

Selected, 1,000-1,100 lbs.	$7.10@7.75
Fair to good, 800-1,000 lbs.	6.35@7.00
Plain to good light	5.65@6.30
Feeding heifers, poor to good	5.35@5.75

STOCKERS.

Selected, 550-700 lbs.	6.65@7.10
Good straight lots	6.20@6.60
Fair to good, 500-650 lbs.	5.75@6.10
Common to plain mixed	5.25@5.65
Heifers, common to good	4.85@5.65

Good fat cows and heifers have been bumped hard this week and the better the class the harder has been the fall. The decline has left the spread between merely decent and fairly choice grades illogically narrow, a packer buyer showing the writer purchase steers today on which cows costing $6.25 on the hoof showed a dead cost of but 16 cents per hundredweight more than cows purchased at $5.25. Soft weather is partly responsible for this unusual trade condition. Carcass beef cannot be displayed in the big markets in such weather without becoming discolored and getting in an unattractive condition, with the result that retailers are shunning the higher-priced carcasses in favor of cheaper stuff. Within the last ten days fairly good to choice fat cows have declined a big 50 cents per hundredweight and the decline on heifers selling ten days ago from $6.25 up has been rather more severe. It takes a very prime cow to land now at $7 and some choice fat 1,056-pound heifers sold today at that figure. Medium to very good heifers at $5.50 to $6.25 were $6.25 to $6.75 kinds or better ten days back. The slump in beef classes has but very slightly affected the market for canners and cutters, which continue in light supply. A good class of cutters is selling around $4.50 and canners selling below $3.75 are very much on the hat-rack order. Bologna bulls have held within 10 to 15 cents of last week's prices and continue very high, but beef bulls are 25 to 40 cents lower, very few selling above $6.50, though good-weight bolognas are reaching $5.70 to $5.80. Choice veal calves are selling up to $10.65 to $10.90, and although only a luxury demand for veal at such prices exists, the market is expected to continue high for the next two months as scarcity will continue until the calf crop from the dairy districts is ready in the spring.

BEEF COWS.

Choice to prime fed cows	$6.00@7.00
Good to choice cows	5.40@5.90
Fair to good cows	5.00@5.35
Inferior butcher cows	4.50@4.85

CANNERS AND CUTTERS.

Good to choice heavy cutters	$4.25@4.50
Fair to good light cutters	4.00@4.20
Fair to good canners	3.60@4.00
Poor to fair canners	3.25@3.50
Old, thin, weak shells	3.00@3.20

HEIFERS.

Choice to prime heifers	$6.60@7.60
Good to choice fed heifers	5.65@6.50
Fair to good grass heifers	5.15@5.60
Common to fair heifers	4.50@5.00

BULLS.

Good to choice bolognas	5.65@5.80
Light and medium bolognas	5.20@5.60
Feeding bulls	4.85@5.35
Canner and poor light	4.25@4.85
Good to choice butchers	5.70@6.00
Choice to fancy beef	6.10@7.00

VEAL CALVES.

Good to choice vealers	10.25@10.90
Fair to good veal stock	9.00@10.00
Strong weight vealers	6.50@ 8.00
Good to ch. stock calves	6.25@ 7.00
Inferior to fair hvy. calves	4.50@ 5.75

The above is a likeness of the great Crimson Col., the Duroc boar to whom the greater part of the sows are bred that constitute the sale offering of A. J. Duerr, Milford, Neb. Sale is January 28th, the day following the Duroc sale of David Boesiger, Cortland, Neb.

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

-B-E-S-T-

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

Prize-Winning Clydesdales 2 STALLIONS, one full brother to the great Forest King, one a yearling by him. Size, big, flat, clean bone, good feet and lots of draftiness their characteristics. One mare, the dam of the yearling colt. I absolutely guarantee these to be all right. Address Jas. Pedley, Britt, Iowa.

DE YOUNG'S DUROCS

A FEW good gilts and bred sows to sell. Best lines of breeding, King of Col.'s Again, Phallas Col. and Crimson Sol., sires of majority. Bred to Crimson Climax boar and others of similar good breeding. A. J. De Young, Sheldon, Iowa.

Poland China Swine

BIG-TYPE Poland China gilts bred for March and April farrow. If you want something with lots of size and bone with quality. Write me your wants. Prices right. H. A. Wohlsdorf, Lawler, Iowa.

Duroc Jersey Bred Sows

STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic. C. H. PEWSEY, Sioux Rapids, Iowa.

Barber's Prize-Winning Chester Whites

40 HEAD of choice gilts bred for early and late farrow. Bred to High Style International King and International Boy, as good breeding as money can buy. Older sows all sold. Address J. L. BARBER, - Harlan, Iowa.

Ten Head of Recorded

Hereford Heifers for Sale

Call on or address B. W. GREGORY, Harlan, Ia.

OUR ENTIRE HERD OF 40 SHETLAND

ponies for sale at closing-out prices. Address Spivey, Robb & Co., University Place, Neb.

OAKVIEW DUROCS. Bred gilts and sows, March and April farrow. Prices right. For 30 days only, fall pigs, either sex, $12.50 to $15 each. Write us mention Homestead. A. Nevins & Son, Modesto, Ill.

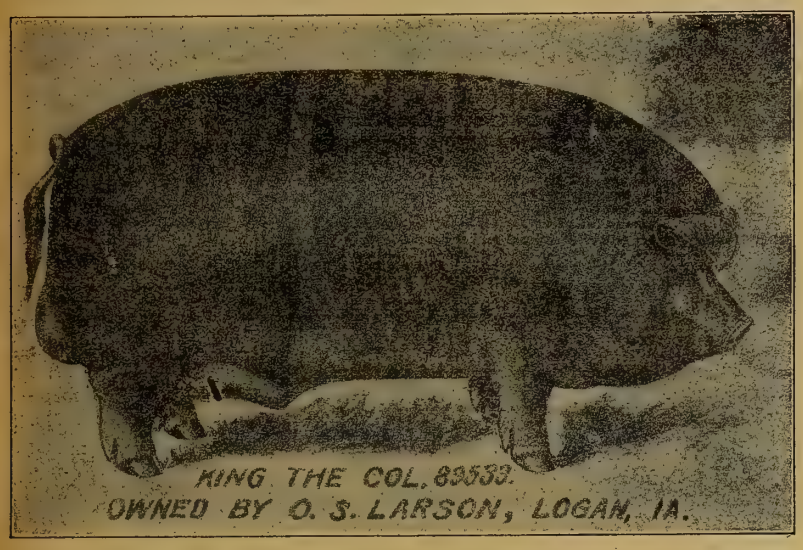
W. H. WALTERS BRUCE, S. D., buys, rents and sells Brookings Co. farms, or will trade for pure-bred live stock.

BLUE RIBBON STOCK FARM offers for sale some choice Scotch Collie pups of highest breeding. H. C. Mehring, Manson, Iowa.

About $1,000,000 worth of road work was done in Wisconsin last year under the general direction of the state highway commission. During the coming year, it is expected that $2,500,000 will be expended in road improvement. To carry on this work to best advantage the state highway engineers will need to have a corps of competent foremen. If responsible men who have had experience in handling men and tools, in moving dirt or building city streets, country roads or railroads apply, they will be offered employment. The state engineering department will prepare and furnish a list of competent foremen to all county highway commissioners in order to assist them in the selection of men to have charge of their work during the coming year.

The Grant Lynn Sale of Duroc Jerseys.

On Wednesday, February 5, 1913, at Spirit Lake, Iowa, Grant Lynn will sell forty head of Duroc Jersey bred sows which have both individual merit and royal breeding. There are eighteen tried sows in the lot and one thing about them that will interest breeders is the fact that every one is a good producer, having raised fall litters this past season and now safe in pig and in good condition for the next farrowing. The remainder of the offering, consisting of twenty-two gilts of last spring's farrow are what any breeder would consider an extra good lot on his own place. They have on the average lots of stretch, we didn't notice a poor back in the bunch, and the entire lot is well proportioned, symmetrical and even, the latter a point which we consider shows the ability of the man who raises pigs, as a breeder. The old herd boar, Evergreen Prince, which Mr. Lynn had at Des Moines this year and also at Sioux City where he was third among the aged boars, would attract favorable comment by any breeder at this season. He is in much better condition today than he was at the Interstate Fair, and that after serving his share during the breeding season. We wish he might have been driven into the ring at both Des Moines and Sioux City in his present clothes, but it isn't every breeder who has his farm to look after who can find the time to do everything he would like. Evergreen Prince is by High Col. by Prince of Cols., dam Dallas Queen by Model Prince. Dallas Queen is one of those extra good producing brood sows which breeders keep till they die in the harness. There are in this sale ten of the yearlings and twelve spring gilts by this boar and six more bred to him, so nearly three-quarters of the offering could be called an Evergreen Prince offering. The rest of the spring gilts that will sell are by a son of Defender, the great International champion. This boar bred well on the sows that he was mated to and the best of the gilts he produced are listed. The two young boars that will take their places as herd headers this year are G.'s Crimson Wonder and Lynn's Golden Model, both strong in the blood of the strains the names of which they carry. The Crimson Wonder boar is by the great Crimson Wonder I Am out of Daisy S. by Model Advancer Choice, second dam Helen Wonder. He is a rich cherry color, a square-built, big, lots of length, good bone and good on his feet. Fourteen of the sows will sell safe in pig to his service and we would consider them good breeders' propositions. Two litter brothers to this boar head herds, one F. H. Dickey's, at Emmetsburg, the other Fred Strong's, at Orient, Iowa. G.'s Golden Model is by Golden Model 31st by Golden Model 2d, dam Fancy Wonder 3d, first in class at Sioux City, Huron and Hamline and grand champion at the latter show in 1912. The sows and gilts are well bred and are good individually. Watch for an account of them next week. In the meantime send for catalogs, which will reach you quickly on request, and mention The Homestead. Ray L. Gribben is the field man and will give you good service. Address Grant Lynn, Spirit Lake, Iowa. See page 45.



King the Col. is undoubtedly one of the greatest Duroc Jersey sires living today. So numerous are the high-class boars and sows of his progeny that this sire really is in a class by himself. The characteristics of his get are good size, plenty of length with abundant bone, all this associated with good, strong backs. About twenty sows bred to King the Col. will be in the sale of O. S. Larson & Son, Logan, Iowa, Thursday, January 30th. See advertisement on page 52.

The McCullough-Hamilton Poland Sale —Last Call.

The sale of Poland Chinas that will be made at Central City, Neb., on January 30th by O. J. McCullough, Clarks, Neb., and L. W. Hamilton & Sons, Kearney, Neb., is a sale that should receive much support from buyers of their type of hogs. Mr. McCullough made one of the good sales of the year last season and Hamilton & Sons are among the most noted breeders of Poland Chinas of the whole country. Some very noted sires have come from this herd. The McCullough offering is strong in big-type blood and includes, among other nice things, a state fair prize-winning litter. They are sired by Big Price 2d by Big Price by Big Ex and they are out of a dam of good breeding and one that has raised a lot of the good ones. That feature should be worth something to the intending buyer. Try to get to this sale. It will be held in a comfortable place and where hotel accommodations are of the very best. Send a bid on some of the choice ones if you cannot attend, but be on hand in person if at all possible.

Lake Park Duroc Jersey Sale.

Thursday, February 6th, is the date of the third of the northern Iowa circuit of Duroc Jersey sow sales. S. L. Weaver, of Lake Park, will put up a draft from his herd at auction that day. S. C. Weaver, of this firm, will be remembered as the active member of the firm Weaver & Fountain, which for the past few seasons has been engaged in the production of a useful class of Duroc Jerseys at Montgomery, Iowa. This sale rather reverses the usual order in bred sow sales in that it is mostly a tried sow offering. Twenty-four tried sows, all in their producing prime will be sent through the ring sale day, and only eighteen gilts. The most of the gilts of last spring's crop were a little too late in being farrowed to be ready for sale at this time, so only the early ones will be sold. Okoboji Col. is the premier herd boar of this herd and is a big fellow well made, and in good condition a showy boar. He was placed first in some competition a little stiffer than county fairs usually see, at the Dickinson County Fair at Spirit Lake this year. Pigs sired by Okoboji Col. are all pretty much alike, regardless of their dams, stamping him as a prepotent sire, a most desirable qualification in any herd header. He is, on his sire's side, a grandson of Col. Stoner by King of Cols., and also traces to Advancer Col. in the third generation on the "top" side of his pedigree. His dam, Lauretta, was by Inventor out of Proud Jessie by Proud Advance. This shows his breeding to be right and such that one would expect a good individual. Helen's Chief Col. by Chief's Col. by King of Cols. (Chief's Col. is out of Chief's Burketta by Ohio Chief), dam Helen's Duchess by Ohio Chief out of Helen Blazes, is the younger boar, and look at his breeding. He lost out in his early development, having gone through a pretty tough siege of trouble a year ago, so had not a very good show, but his blood lines show up in his get. Two younger herd boars, litter brothers by Crimson Wonder Again, are pretty good prospects and have been used extensively. The sows have all been regular and prolific breeders, having had to pay their way on a farm in a practical manner. The catalogs are ready and will furnish detailed information. Sale at farm three miles southwest of Lake Park. Ray L. Gribben is field man. Address S. L. Weaver, Lake Park, Iowa. See advertisement on page 45.

Kuper Bros.' Duroc Sale.

Kuper Bros., Bellevue, Iowa, will hold their second annual sale of Duroc Jersey bred sows on January 30th. The sale will be held in town, which will make it convenient for parties from a distance to catch the early train. They are not selling a large number of sows, but they are selling thirty good ones. They are selling ten yearlings and twenty gilts that are a credit to their ability as breeders and feeders. The yearlings will be sired by The Professor, Muncie Chief, Model Wonder, Protection Col. 2d and Col. Highbred. These yearling sows are worthy the attention of any breeder. The gilts are largely sired by Ames Col., the second-prize senior yearling boar at the Iowa State Fair, 1912; the balance are sired by Springfield Wonder by Prince Wonder Again, S. E.'s Premier Col. by Premier Col., Proud Ohio Chief by Ohio Chief and Protection Col. 2d by Protection Col. These gilts have the size and smoothness that all breeders like and a number of them are bred to Young Premier, a son of S. E.'s Premier Col. and out of a Golden Model 6th sow. Carlos C. Palmer will represent The Homestead at this sale and handle any bids sent in care of Kuper Bros. See page 49 and write for a catalog, mentioning The Homestead.

DISPERSION SALE OF GRAND CHAMPION

DUROC JERSEY BOARS AND SOWS

At the Farm Adjoining

GLENWOOD JUNCTION, MO., FRIDAY, FEB. 7, '13

SOME ATTRACTIONS IN THE SALE

OHIO COL. by King of Cols., dam by High Chief by Ohio Chief. Ohio Col. was second at Lincoln, 1910, and grand champion of Kansas same year. He is one of the real great breeding boars of the day.

MODEL QUEEN, grand champion sow of Nebraska and Kansas, 1910, and sold for $750 at auction, 1911, highest price of the year. She has raised two litters each year and will farrow April 6th to service of Successor.

CHIEF'S MAID (by Valley Chief), grand champion sow Iowa State Fair, 1912, and has raised a fall litter. Bred to Ohio Col. for March 17th litter. If you want to raise a champion buy her.

OHIO QUEEN (by Ohio Chief), third at Iowa and Nebraska, 1912, fourth Nebraska, 1911, has raised a fall litter and is bred to Ohio Col. for a March 16th litter. She is a great brood sow.

MODEL QUEEN 6TH, one of the best daughters of Model Chief is bred for a March 15th litter to Ohio Col.

There are many other good ones including three fall yearling sows by Ohio Col. and out of Model Queen, a yearling sow by Prince of Cols., dam Model Queen, a great daughter of Chief Select, others by The Professor, King of Cols., Valley King Again, Model Wonder, Golden Model, The Chief, Proud Ohio Chief, Proud Col. and others, two litters of fall pigs by Ohio Col., one litter out of Model Queen, the other out of Chief's Maid. Another fall litter by Valley King Again and out of Ohio Queen. Don't miss the sale. Write me for a catalog mentioning The Homestead. Colonels Reppert, Kraschel and Allen, auctioneers.

E. W. DAVIS, GLENWOOD, MISSOURI

C. E. VEAK'S GREAT SALE

DUROC JERSEY SOWS

ESSEX, IOWA, FEBRUARY 4, 1913

40 HEAD. 25 TRIED SOWS, 15 CHOICE GILTS. 40

These are daughters of such noted boars as my great High Col., Select Chief, Cherry Prince, Proud Col. and Valley Chief 2d. These will be bred to my present great trio of boars, High Col. 2d, Cherry Prince and Crimson The Wonder. If you want a few really great sows, bred to some of the best herd boars today in the West, then come to my sale. Catalog now ready. Write for it at once and mention The Homestead. Address

C. E. VEAK - - - ESSEX, IOWA

Kraschel and Reppert, Auct.

M. T. White, field man

ALBERT SMITH & SON'S GREAT

BIG-TYPE POLAND CHINA SOW SALE

to be held on farm, 9 miles north of

SUPERIOR, NEBRASKA, TUESDAY, FEBRUARY 4TH

45 HEAD, TWO TRIED SOWS, FIVE FALL AND THIRTY-EIGHT SPRING GILTS. A great offering of tried sows, fall gilts and growthy spring gilts carrying the blood of Chief of Pawnee, the noted son of the famed Johnson's Chief, and other well-known boars. Bred for spring farrow to Victor's Prospect by Big Victor, Mogul's Model by Mogul and Jumbo Jr. by Nebraska Jumbo. If you want sows of rich breeding with lots of size and quality you will be interested in this great offering. Write for catalog and arrange to attend the sale. Kindly mention The Homestead.

ALBERT SMITH & SON, SUPERIOR, NEB.

Col. John Brennan, Auct. John C. Halderman, field man.

FESENMEYER'S GREAT BROOD SOW SALE

CLARINDA, IA. FEB. 6, 1913

40 HEAD 40

Ten A Wonder sows or carrying the blood of A Wonder; two Long King sows; one Chief Price 2d sow; one Rood's Tecumseh sow; one choice Chief Price sow.

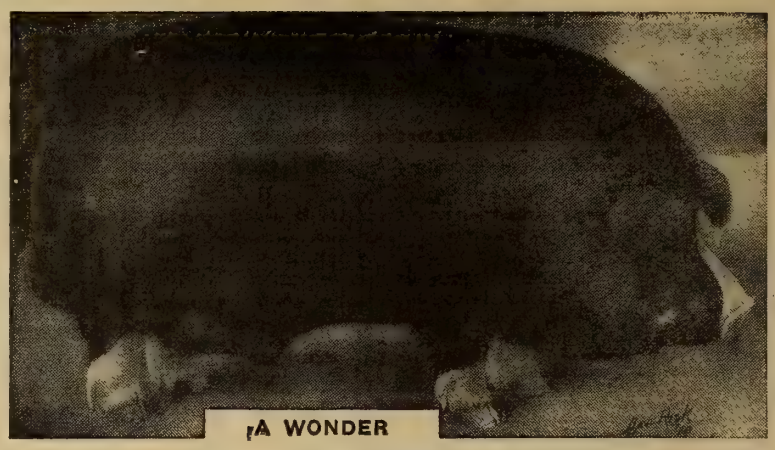
BIG JOE

I am selling five Big Joe gilts that are outstanding in size and quality. These are mostly out of A Wonder sows and are bred back to A Wonder.

30 Sows Bred to

A WONDER

The greatest living Poland China boar.



[A WONDER

IF YOU want to buy sows bred to the greatest Poland China boar that has ever lived, you will necessarily be interested in this great offering. I am selling some of my best A Wonder sows bred to BIG JOE, a boar that is destined to make his mark as a sire and a big fellow. Write for my great catalog and come to my sale or be represented by a bid. Kindly mention this paper when writing for it. Address

HENRY FESENMEYER, CLARINDA, IOWA

COL. H. S. DUNCAN, auctioneer.
M. T. WHITE, field man for The Iowa Homestead.

Ringmaster Short-horns in the Sale Ring.

It is a remarkably attractive lot of Short-horns that White & Smith will place before buyers at Chicago, February 12th. Fifty head from the herd at Meadow Lawn Farm will be sold and the fact that they come from the hand of that master cattleman, Leslie Smith, should be sufficient guarantee as to their individual merit. Mr. Smith has dipped deep into the good things of the herd, and the buying public will have an opportunity to pass judgment upon an offering of cattle that will not be excelled in any sale ring this season. Not only will it be a strongly-bred Scotch lot, but championship blood will predominate. It may well be called an offering of Ringmaster Short-horns, as sons and daughters of this undefeated champion bull will be numerous, while over one-half of the female portion of the offering is bred to him. Four young Ringmaster bulls are in the list and prospective buyers of herd-heading propositions will find among them good values. Five other good young bulls, all the get of well-known sires, are in the list and they are the right kind. The female portion of the offering is little less than sensational. It is headed by the grand champion cow of the 1912 International Live Stock Exposition, Roan Queen. Any comment on this superb beast is unnecessary, but the fact she is due to calve soon after sale day to the service of Ringmaster is a matter of consequence. The produce of this mating should be something of remarkable merit. Ringmaster has the wonderful record of never having been defeated in class and has won over forty championships and grand championships, while Roan Queen has twenty championship ribbons to her credit. It is rare indeed that two animals with such remarkable show-ring records are mated and the value of produce of this mating it is impossible to estimate. Roan Queen is by no means the only high-class cow in the offering. She will have plenty of strong company. It is not our intention, however, to particularize at this time. That will be done in later issues. Twenty two-year-old heifers are listed that are a remarkably outstanding lot. Included in the female list are several daughters of Ringmaster, while there are others by such sires as Superbus, Juno Clipper and March Knight that are bred to Ringmaster, and several of the older cows sell with calf at foot by Ringmaster. With just one exception every animal in the sale is a member of some popular Scotch tribe, such as the Duchess of Gloster, Lavender, Broadhooks, Venus, Clara, Juno, Mayflower, Butterfly, Violet, May Blossom, Flora, Miss Ramsden or Mina, and they will be presented in excellent condition. Leslie Smith is a past master in the breeding and handling of cattle, and he will send to this sale a lot of animals that will be a credit to his skill and worthy representatives of the great Short-horn breed. In later issues more detailed information will be given. The advertisement appears on page 46. Look it up and send for a copy of the catalog to White & Smith, St. Cloud, Minn., mentioning The Homestead.

Nash's Poland China Sale Offering.

The really great sow sires of the Poland China breed that have acquired a noteworthy reputation the past ten or twelve years might almost be named on the fingers of one hand. The next decade may show up many more, but the writer rather doubts that it will, but we really believe that one that should become famous in that time is the great young boar, Gold Medal, now owned and used by J. T. R. Nash, Minden, Neb. Mr. Nash surely has a choice lot of stuff sired by him; in fact, nearly all of the gilts that go in the Nash sale, February 8th, are his get. They are surely a toppy lot of sows, the big, deep, stretchy, brood sow kind. We would like to see a lot of Homestead readers at this sale. These are the kind of hogs we would recommend new beginners to buy and they are also the kind for all breeders to purchase. A Gold Medal gilt bred to Long Jumbo should sure make good and we believe they will. Send for a catalog at once and mention The Homestead. See page 46.

Kreischer's Poland China Sale.

E. W. Kreischer, Mt. Vernon, Iowa, will hold his second annual sale of Poland China bred sows at his Sandy Hill Stock Farm on February 6th. He will sell fifty head, consisting of twelve yearling, twenty-four fall yearling sows and four spring gilts. The offering is of the large, heavy-boned, smooth kind, and they are in fine condition to raise large, healthy litters. Seven of the yearling sows and seven fall gilts and one extra good spring gilt are sired by his noted 1,000-pound herd boar, Mastodon Chief. Five yearling sows, ten fall gilts and three spring gilts are by the great boar, Tecumseh Prince, that Mr. Kreischer has been using in the herd with marked success. There will be eight fall yearlings by the 900-pound boar, Chief Jumbo, used so successfully in the herd of W. H. Cooper. There will also be two fall yearlings by Mr. Cooper's noted boar, Big Bone 2d. Seven fall yearlings by Thor, one of the good breeding sons of Smooth Wonder 2d, are cataloged. A representative of The Homestead recently inspected this offering and was highly pleased with the size, quality and uniformity of this lot of sows. We can strongly recommend them to anyone looking for strictly big-type Polands, bred right and fed right. The sows are bred to some of the most noted boars of the breed. The best known probably is Mastodon Chief, the great 1,000-pound boar with an eleven-inch bone, that was purchased from the noted Wheeler herd. He has been used in Mr. Kreischer's herd for three years and the grand lot of big, smooth sows on Mr. Kreischer's farm sired by this noted boar is the best evidence of his ability as a sire. A number are bred to Big Jumbo 2d, a son of the noted Big Jumbo bred and owned by Peter Mouw. Nearly all of the Mastodon Chief sows and gilts are bred to Big Jumbo 2d. A few are bred to Surprise Chief, one of the best sons of the noted Tecumseh Prince, and a few to Mastodon Wonder, one of the best sons of the great Mastodon Chief and out of the great sow, Smooth Lady, by A Wonder, that sold for $100 in Mr. Kreischer's last sale. This sale has been planned for by Mr. Kreischer during the past year and it has been his ambition to put up an offering that would be hard to equal and we believe he has succeeded in doing so. He has sows and gilts good enough to go in any breeder's herd and they are bred to boars with national reputations. See page 48 and write for a catalog, mentioning The Homestead. Parties who cannot attend the sale can send their bids to C. C. Carlin, Homestead representative, in care of Mr. Kreischer, and they will be treated in an honest and careful manner.

Healy's Bates Short-horn Sale.

In last week's issue we announced the sale of forty head of Bates-bred Short-horns, of the most noted milking strains, from the herd of O. M. Healy, Marshalltown, Iowa, on January 28th. This is probably the only sale of purely Bates-bred Short-horns that will be held in the West this year, and those of our readers who are interested in the milking strains of this great breed will be especially interested in the Healy sale. He is selling thirty head of females and ten bulls, including his present herd bull, Earl of Barrington. This bull is a roan in color, will weigh over a ton and belongs to the Lally Barrington tribe. He is a descendant of Imp. Lally 8th, a cow that sold in the Groom sale for $1,550. He is one of the best bred Bates bulls that has ever been used in the West. This bull is the sire of most of the heifers and the young bulls in the sale. Another good bull is 7th Duke of Wapsie, an Airdrie Duchess bull that should meet with favor from those who attend the sale. Besides are eight young bulls, all of the Oxford, Airdrie Duchess and Grand Duchess tribes. Mr. Healy is selling a splendid lot of females of these same families, including a grand good lot of cows and some splendid heifers. We made individual mention of many of the best of these in last week's write-up. The point at issue in regard to this sale is that these cattle are strictly and purely Bates-bred cattle, of the most noted milking tribes. In earlier years the Bates Short-horns were regarded as the milking Short-horns, and in those days commanded the highest prices. The Airdrie Duchesses, of which he has many in the sale, have been and are today the highest-priced Short-horns that we have any record of. While most of our American breeders have been breeding the Scotch sorts, O. M. Healy is one of those who has through all these years stayed with his Bates cattle, and he has never used anything but Bates bulls. In other words his cattle are strictly Bates bred, with no outcrosses. If you want Bates cattle of these most noted milking strains make it a point to attend the O. M. Healy sale at Marshalltown, Iowa, on January 28th. When writing for catalog address O. M. Healy at Bed-

GOODENOUGH'S GREATEST ATTEMPT

IN AN OFFERING OF

HAMPSHIRE BRED SOWS

AT THE FARM NEAR

MORRISON, ILLINOIS,

MONDAY, JANUARY 27, '13

Some Great Gilts in this Sale.

55 HEAD will be sold, consisting of 25 mature sows, 8 fall yearling sows and 22 spring gilts. The mature sows are sired by Teddy R. B., Bon Bon Beauty and Perfectum, a son of Bon Bon Beauty. The gilts are all sired by Shelby Lad and Perfectum. The sows will be bred to Dudie, first in junior yearling class at Iowa State Fair, 1912, and Shelby Lad, first in junior yearling class at Indiana State Fair, 1911. I will hold no sale in 1914 and for that reason I am cataloging a number of the very tops of my herd that otherwise I would not think of selling. This is the best lot of Hampshires I have ever sold at public auction and you will say so when you see them sale day. I raised them to sell and they are yours at your own price on January 27th. Write me for catalog, mentioning The Homestead, and arrange to be my guest sale day. Send bids to Carlos C. Palmer, Homestead field man, in my care, and they will be honorably treated. Fred Reppert, auctioneer. Address

A. L. GOODENOUGH, MORRISON, ILLINOIS.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE & FARM WEEKLIES, DES MOINES, IOWA.

NORTHERN IOWA CIRCUIT DUROC JERSEY SALES

F. H. DICKEY **H. S. FAIN**

60 HEAD, including eight tried sows, seven fall gilts and forty-five spring gilts, the choice of the two herds. Only the tops of the herds will be offered and from the blood lines represented, it will be seen that both consignments are of the best. The herd boars in each herd are characterized by great bone and stretch, as shown in their offspring. The sires of the offering are: Col.'s King by King of Cols.; Royal Col. by the champion, Freed's Col., dam by Manley Orion; Fain's Select by Chief Select,

TUESDAY, FEBRUARY 4, 1913

and Fain's Col. by Gold Col. There are sows in this sale by other sires and other boars, but these are the principal ones of the two herds. Service boars: Mo. Model Top Jr., a great young boar by Mo. Model Top, D.'s Crimson Critic, D.'s Crimson Wonder by Crimson Wonder I Am, Fain's Select, and others of the herd boars already given. As individuals these boars are good, and are the growthy, vigorous sort that is so often chosen for the practical purposes of the farm and breeding pens.

In F. H. Dickey's Sale Pavilion

EMMETSBURG, IOWA

A COMPACT CIRCUIT OF SALES, EASY TO ATTEND ALL AND A GREAT CHANCE TO BUY SOME GOOD SOWS

SPIRIT LAKE, IA.

WEDNESDAY, FEB. 5, 1913

40 head of the choicest that I ever raised, consisting of 18 tried sows and 22 of the best kind of gilts. 22 of the 40 are by my herd boar, Evergreen Prince, which was 3rd at Sioux City last fall, and after going through the breeding season is in much better shape than he was at the fair. I will sell 6 sows that are safe in pig to him. He is by High Col., by Prince of Cols., dam Dallas Queen by Model Prince, the best producing brood sow that I ever hope to own. Ten of the spring gilts are by King's Defender, by the twice champion Defender. The entire offering is in excellent condition, and the sows will all be safe in pig to the old boar, and to G.'s Crimson Wonder by Crimson Wonder I Am, and Lynn's Golden Model by Golden Model 31st by Golden Model 2d, two good sons of these great sires. The sows are stretchy and big and good on their feet. Sale at the farm, 5 miles northeast of Spirit Lake and will be held in HEATED PAVILION

GRANT LYNN.

SPIRIT LAKE, IOWA.

LAKE PARK, IA.

THURSDAY, FEB. 6, 1913

42 head of sows that are bred for early farrow to boars that have size and are bred along popular lines. This sale will be largely a tried sow offering, for there are included 24 tried sows and only 18 spring gilts. The entire herd is strong in Colonel blood, as nearly all the sows have large proportions of that strain. The old herd boar, Okoboji Col. traces on his sire's side to both King of Cols. and Advance; his dam was by Inventor, out of a Proud Advance sow. He met some stiff competition at the 1912 Dickinson County Fair, but managed to win over it. He has considerable size, and is a strong vigorous boar. The two young herd boars, litter brothers, used for service this season, show popular blood lines, being by Crimson Wonder Again and out of a sow by W. J. C.'s Prince of Cols. This is a sale where you will find bargains in both quality and blood lines. It will be held at the farm 3 miles southwest of Lake Park. Send for catalogs.

S. L. WEAVER,

LAKE PARK, IOWA.

J. SCHMIDT, EVERLY, IOWA

40 HEAD, the pick from over 225 head that I raised on my farm last spring. There will be about a dozen tried sows, the rest gilts. I have not put in a large number, because this is my first sale and I want to sell only the very best, so those who may buy at this sale will get something which will make them want to buy more from me next year. Breeders who want to make their selections from a herd that has actually been a producing one in one of the most severe seasons for farrowing that we have known, can get what they are looking for here. The

FRIDAY, FEBRUARY 7, 1913

offering is practically all sired by Col. Tientsin, and Royal Muncie. Col. Tientsin is by a son of Carl's Col., out of a sow by Tientsin II. and Royal Muncie is by Muncie Chief, dam by American Royal. A large part of the sows cataloged are bred to a big young boar, Col.'s Model by Col. Grant, and out of a great producing brood sow, Dallas Queen by Model Prince. A practical offering from a practical herd. Address for catalogs as above. Sale on farm, six miles from town, in heated pavilion.

SALE IN COMFORTABLE PAVILION

WE heartily commend the sows advertised above to breeders who may need more females this year, for in this circuit are individuals of meritorious breeding, all with good guarantees by men who are in the habit of standing by their word. By following this compact circuit you will be able to replenish your herds with good blood and a good type of individuals without requiring you to make selections from a few in any single sale you might otherwise attend. The almost certain advance in prices of even common brood sows this year will make it more desirable than ever to look over the pure-bred sales this winter with a view of making a start in a better grade of hogs. The scarcity of good breeding stock, with the cheap corn, means a great demand for hogs on the farm, and the time was never more favorable for a man to make a start in this direction. Cols. O. L. and A. L. Mossman will be the auctioneers. Ray L. Gribben of The Homestead will attend these sales and will handle bids you may send him strictly in your interest.

ford, Iowa. Kindly mention The Homestead when writing for it.

Goodenough's Hampshire Sale.

This is the last opportunity we will have of calling the attention of our readers to the important sale of Hampshire bred sows to be held by A. L. Goodenough, Morrison, Ill., on January 22d. We have stated in preceding issues the high esteem in which Mr. Goodenough is held by Hampshire breeders. It is his good judgment, his ability to mate and develop good Hampshires and his unquestioned integrity that has won for him his large circle of friends. From such a man is a good place to buy a foundation for a pure-bred herd of any breed of live stock. Fifty-five head will be sold in his sale and they are the best lot of sows he has ever offered at public auction. Sires and dams that have produced state fair champions are found in the pedigrees of the animals he will sell. Twenty-five mature sows, eight fall yearlings and twenty-two spring gilts make up the offering. The gilts are largely by Shelby Lad, a first-prize state fair winner at Indianapolis in 1911, and a number of the sows are bred to him. There will be a number bred to Dudie the first-prize junior yearling boar at the Iowa State Fair in 1912. This boar is a son of Compeer, the noted boar that has sired so many winners in the Essig herd. The matured sows are largely sired by Bon Bon Beauty, the first-prize junior yearling at the Illinois State Fair in 1908; Teddy R. B. and Blythedale Jim, two boars that have been used in the Goodenough herd with marked success. Mr. Goodenough has decided to hold no sale in 1914 and for this reason is putting up a number of sows that he would not sell if he expected to hold a sale next year. He feels that by holding a sale every other year he can put up a better offering, as he fully realizes that breeders will travel many miles after the best. Bids sent to Carlos C. Palmer, Homestead representative, in care of Mr. Goodenough, will receive careful attention. See page 44.

C. A. Brook's Hampshire Sale.

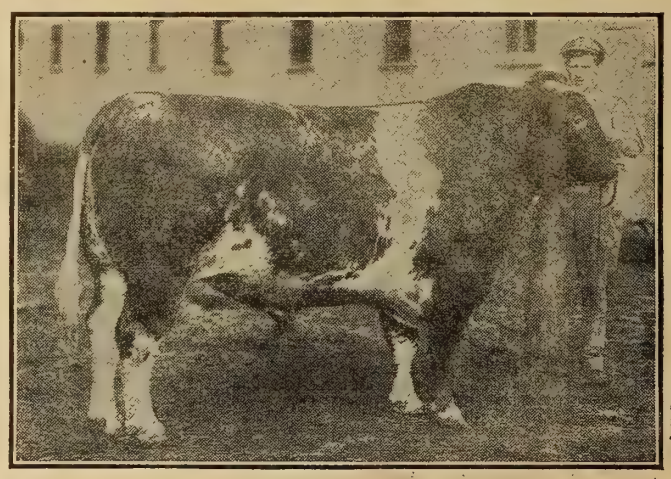
C. A. Brook, Washington, Iowa, has one of the largest herds of Hampshire swine in the state. He sells a large number privately during the course of the year, but this summer he decided to reserve some forty of his best sows and gilts for a bred sow sale, which he will hold in Washington on February 5th. Mr. Brook has been an exhibitor of cattle and hogs at the International Stock Show for several years, and this year was particularly fortunate in winning a number of the most coveted prizes in the Hampshire show. In Mr. Brook's offering will be over twenty-five matured sows and of them thirteen were members of Mr. Brook's International show herd. There will be three gilts, sired by Good Deal and out of Sylva, the top sow in Mr. Davis sale last winter. Sylva was an undefeated sow in 1911. The important end of the sale will be these show sows, and they are all bred to Joe 7743, first-prize junior yearling boar at the International Stock Show in 1912, and before the awards were made many good breeders were predicting that he would win the championship. Joe is considered by many breeders to be a typical Hampshire boar, and with his strong individuality he is backed by a line of breeding that cannot be surpassed. His sire, Nissen's General Allen, sold for $500 at public auction last year and was shown at the recent International Stock Show and won second prize in the aged class. The breeder will be fortunate who can take home a sow bred to this grand young boar. J. E. Wright is consigning a few sows to Mr. Brook's sale and they are largely bred to Silver Tip Lad, a son of Sylva, champion under year sow in 1911. Fifty head will be cataloged for this occasion and every one a choice individual, practically all bred for March farrow. There will be thirty-two head of tried sows from the most fashionable lines of breeding, being sired by General Allen, an International champion; Gold Gem, Queen's Choice D., Missouri Boy and others of note. Parties who cannot attend this sale can send bids to Carlos C. Palmer, Homestead representative, in care of Mr. Brook, and they will receive careful attention. See page 48 and when writing for a catalog mention The Homestead.

Lonergan's Poland China Sale.

On February 12th D. C. Lonergan, will make his annual brood sow sale at Florence, Neb., at which time he will offer sixty head of Poland China bred sows. He is selling a grand lot again and among these are daughters of Big Victor, Big Tom, I Am Big Too and L's Quality. These will be bred to Big Victor, Guy's Price Last, Big Bob, L's Quality and King Giant. It is an offering that you will all be interested in if you want good Poland China bred sows. If your name is not on the Lonergan list for catalog, write him at once and kindly mention The Homestead.

White & Smith Invite Your Attendance at a Sale of

RINGMASTER SHORT-HORNS



Ringmaster, the undefeated grand champion bull.

COLS. BELLOWS, JONES and ROBSON, Auctioneers.

CHICAGO, ILL., WEDNESDAY, FEB. 12

An Offering of High-class SCOTCH-BRED Cattle That Will Not be Excelled

SOME OF THE ATTRACTIONS

ROAN QUEEN, the Grand Champion cow at the 1912 International, and one of the greatest cows ever placed in a public sale ring She is due to calve to the service of the undefeated grand champion Ringmaster. Roan Queen is the winner of twenty champion and grand champion ribbons.

20 FEMALES BRED TO RINGMASTER, or with calves at foot by him, including representatives of Duchess of Gloster, Lavender, Broadhooks, Venus, Clara, Mayflower, Butterfly, Violet, May Blossom, Miss Ramsden and other popular Scotch tribes.

9 BULLS, 4 BY RINGMASTER included, among them being some extra strong herd-heading material.

20 TWO-YEAR-OLD HEIFERS, including se eral daughters of Ringmaster, forming one of the strongest lots of young Scotch-bred cows ever offered at public sale.

We have selected the tops of our herd for this sale, and we will appreciate your attendance, as we know you will be pleased with the offering. Write today for the catalog, mentioning The Homestead, to

WHITE & SMITH, ST. CLOUD, MINNESOTA

J. T. R. NASH'S
Gold Medal Long Jumbo
POLAND CHINA BRED SOW SALE

Will be held in the sale pavilion in the city of

MINDEN, NEBRASKA
SATURDAY, FEB. 8th

40 Choice big sows will make up the sale, most of which are big spring gilts sired by the sensational breeding boar, **Gold Medal,** and bred to **Long Jumbo,** the highest priced son of Wade's Jumbo sold last year. Gold Medal is positively one of the greatest sow sires of the breed. His gilts comprise one of the very best bunches to be sold this year. Get the catalog at once. Look it over carefully. Get to this sale and be sure and get one or more of these sows. Send bids to J. C. Price, field man. H. S. Duncan, auctioneer. Mention Homestead and address

J. T. R. NASH, - Minden, Nebraska.

WRIGHT'S BIG-TYPE POLAND CHINA SALE

SALE WILL BE HELD AT THE FARM 3 MILES SOUTHEAST OF

ALLEN, NEBRASKA, WEDNESDAY, JAN. 29, 1913

50 HEAD of mammoth sows bred by myself from the biggest blood I could find. There will be included 6 matured and tried sires, 12 yearlings, and the remainder spring gilts from some of the best sows that I bought last year, together with those that I raised myself. This entire offering is big boned throughout and the gilts are smooth, the sows roomy and the sort that produce size in their breeding. The Wright's big-bone stuff is all characteristically large in bone, and they show him to be a breeder of the best. He is a half brother of Big Jumbo. Other herd boars are big Bone Jim by the well-known Barker boar, Lyon Chief; Big Chief; Big Wonder by Long Wonder 2d, and Long Wonder 2d. The ones of these that I now have on my place have been used on the sows in this sale and with such breeding you will be certain to find something to suit. Write now for the catalogs, as they are ready. Col. W. R. Ritchie will be the auctioneer. Mention The Homestead.

W. M. WRIGHT AND SONS, - ALLEN, NEBRASKA.

Podendorf-Rainier Sow Sale

LOGAN, IOWA, FEBRUARY 1, '13

50 HEAD---Tried Sows, Yearlings, Fall Sows, Gilts---50

WE are selling the greatest offering of Poland China sows of the winter season, bred to the greatest boars today in the land, viz: Chief Price Again, Long Nelson, two of the most noted sires now living. Also a few bred to Big Wonder and Monarch Chief. There will be daughters of Big Orange, A Wonder, Chief Price Again, Long Nelson, Chief Tecumseh 4th, Monarch Chief and other great sires. Write for our splendid illustrated catalog. Address,

A. J. PODENDORF } Logan, Iowa.
or FRANK RAINIER }

COL. H. S. DUNCAN, Auctioneer.

C. C. Carlin, field man

J. M. GLASIER'S POLAND CHINA SALE

KOSSUTH COUNTY FAIR GROUNDS WEDNESDAY FEBRUARY 5, 1913

Forty head, including eleven tried sows, twelve fall yearlings and seventeen spring gilts. Sows bred for March and April farrow. Sires: Big Kossuth by A Wonder (Ellerbroek's), dam Mollie B by Chief Leader; Up To Date Jr. by Up To Date, dam Our King. Service boars: Count Halvor Jr. by Count Halvor 2d by Big Halvor, dam Mouw's best breeding, and Valley Longfellow by Chief Longfellow, dam Valley Wonder by Blue Valley Boy.

W. T. Stratton, L. W. Larson, Aucts.

J. M. GLASIER, ALGONA, IOWA

C. C. Carlin, field man.

Big, Smooth, Well Bred

Selections Made From Best Herds

Quality Right Your Own Prices

SCHRAM'S POLAND CHINA BRED SOW SALE

TO BE HELD ON THE FARM 6 MILES SOUTH OF

NEW CASTLE, NEBRASKA, THURSDAY, JAN. 30, 1913

36 HEAD of the best sort of brood sows, including ten tried sows, twelve fall gilts and fourteen spring gilts. They are by the following sires: Expansion Prince by Hadley's Surprise, Fair Chief by Chief Price 2d and Hadley's Mogul. For service boars there have been used Hadley's Mogul, Mastiff's Pointer and Valley View Jumbo, a son of Big Jumbo, he by the famous Big Jumbo. The combination of the blood lines used in this herd has been a judicious mingling of the big type and the more medium type, producing hogs that have retained the immense size of the big ones, coupled with that quality that marks the best. It is throughout an offering of the better order, and is worthy of the attention of the best breeders. The catalogs are ready. Write for one today. Col. W. R. Ritchie, auctioneer.

C. W. SCHRAM, - - - NEW CASTLE, NEB.

MISSOURI AUCTION SCHOOL

KANSAS CITY, MISSOURI,

NEXT TERM OPENS FEBRUARY 3, 1913

This will be an actual practice term. Get my new free book, it tells how to be an auctioneer

MISSOURI AUCTION SCHOOL, 14th and Grand Ave., KANSAS CITY, MO.

R. J. HARDING'S GREAT SALE

COL. GANO BRED SOWS

CARSON, IOWA, MONDAY, FEB. 3, 1913

40 HEAD--20 YEARLINGS, 10 MATURED SOWS, 10 GILTS--40 HEAD

COL. GANO, THE MOST SENSATIONAL SHOW BOAR NOW LIVING AND THE GREATEST SIRE FOR HIS AGE OF MODERN TIMES.

17 SOWS BRED FOR MARCH FARROW TO COL. GANO

THE Duroc Jersey breeding world proclaimed **Col. Gano** to be one of the **greatest boars seen at the fairs last year** and those who have seen his get admit he is one of the **greatest breeding boars now living.** Among the good things I am selling in this sale is a full sister to the great boar **Professor,** bred to **Col. Gano;** 4 daughters of **Chief's Protection** that were in 2d prize young herd at Nebraska State Fair 1912; also 5th prize senior yearling at Des Moines, all bred to Col. Gano; **H. A.'s Queen Again,** a fall yearling by Crimson Wonder Again and out of old H. A.'s Queen, bred for March farrow to **Col. Gano;** a junior yearling sow by **Orion Chief,** bred for March farrow to **Col. Gano;** 20 fall yearlings mostly sired by Chief's Protection; 15 sows bred to my great young boar, **R. J.'s Wonder,** a son of Crimson Wonder Again, and that greatest of all brood sows, H. A.'s Queen. I am selling a grand good lot of sows bred to the greatest boars in the west today. Catalog now ready. Write for it and mention Iowa Homestead. Address

R. J. HARDING - - MACEDONIA, IOWA

Cols. Kraschel and Reppert, Auctioneers. **M. T. White, Field Man for Homestead.**

Attention is called to the O. E. Osborn sale at Weston, Ia., on Feb. 1, and the W. H. Seddon sale at Persia, Ia., Jan. 31.

H. S. ALLEN'S GREAT SALE

CRIMSON WONDER AGAIN

BRED SOWS

CHARITON, IOWA, WEDNESDAY, FEB. 5

42 HEAD. 12 TRIED SOWS, 10 FALL YEARLINGS, 20 GILTS. 42

Crimson Wonder Again, Grand Champion Boar at Iowa State Fair, and the Sire of Over a Hundred Prize Winners.

I AM selling 12 sows bred to my celebrated champion boar, **Crimson Wonder Again**, and there will also be 8 of his daughters in the sale. There will be more of the blood of Ohio Chief and Crimson Wonder Again in my sale than has ever before been listed in one offering. There will be 20 granddaughters and greatgranddaughters of old Ohio Chief in my sale. It is a great offering, in fact, one of the best I have ever made. Catalog now ready. Write for it at once and mention The Homestead. Address

H. S. ALLEN, RUSSELL, IOWA

Col. N. G. Kraschel, auct. M. T. White, field man for The Homestead.

KREISCHER'S PUBLIC SALE OF BIG-TYPE

POLAND CHINA SOWS

AT

SUNNY HILL STOCK FARM

6 miles southwest of Mt. Vernon, on Chicago & Northwestern, and 4 miles north of Solon, on C., R. I. & P. Railway, on

THURSDAY, FEBRUARY 6, 1913

50 HEAD---12 Yearling Sows, 34 Fall Gilts, 4 Spring Gilts

7 Yearling Sows, 7 Fall Gilts, 1 Spring Gilt by the Famous 1000-lb. Mastodon Chief

5 YEARLING sows, 10 fall gilts and 3 spring gilts by the 800-pound TECUMSEH PRINCE, bred by W. J. Crow; 8 fall gilts by the 900-pound CHIEF JUMBO; 2 fall gilts by the 900-pound BIG BONE 2d, and 7 fall gilts by the famous son of Smooth Wonder 2d, THOR. The sows that make up the offering are deserving of more than passing notice, for they have the size and quality now so strong in demand, for the fall gilts have up to nine inches of bone, and the entire offering is in just nice breeding condition, and

ARE BRED FOR EARLY LITTERS

to four of the best big-type boars in the corn belt, which are Mastodon Chief, the 1,000 pound boar when in high flesh, stands on eleven inches of bone and has been at the head of my herd for three years; Big Jumbo 2d, a son of the famous boar, Big Jumbo, bred and raised by Peter Mouw, and weighed over 1,000 pounds at thirty months old. Nearly all of the Mastodon Chief sows are bred to this boar, and their litters will carry a combination of big-type blood lines that cannot be excelled anywhere. Surprise Chief, one of the best sons of the great boar, Tecumseh Prince, the W. J. Crow boar used for three years, and out of a dam sired by the 1,000-pound Long Chief; and Mastodon Wonder, a son of Mastodon Chief and out of the 900-pound Smooth Lady, one of the $100 sows in my last winter sale. Don't imagine that there are only a few good ones, and that they will sell high, as is often the case, and the balance very plain, for THERE IS NOT A CULL IN THE OFFERING, and this will be a rare opportunity to buy GOOD ONES AT YOUR OWN PRICE.

A cordial invitation is extended to all breeders and farmers and all lovers of the old kind of Poland Chinas with great size and bone, to be with us sale day. Sale held under cover. Parties from a distance will find free conveyance to and from farm, from both Mt. Vernon and Solon. Hogs to be shipped will be loaded on cars free of charge at Solon or Mt. Vernon. Send for catalog mentioning The Homestead. Send bids to C. C. Carlin, Homestead representative in my care

E. W. KREISCHER, MT. VERNON, IOWA.

Cols. W. H. Cooper, G. H. Burge and Theo. Martin, Auctioneers.

IMPORTED

HAMPSHIRE SALE

TO BE HELD IN THE TOWN OF

WASHINGTON, IOWA Wednesday Feb. 5

50 HEAD of excellent Hampshire bred sows, among them a number of International Stock Show and Iowa State Fair prize winners. Thirty-two of the sows are tried brood sows from the most fashionable strains of blood, being sired by General Allen 1061, Gold Gem 647, Queen's Choice D. 5015, Missouri Boy 1505 and other noted boars. With one exception these sows are in pig from the first service which shows the useful character of the offering. My sows are all bred to **JOE 7743**, the first-prize junior yearling at the International Stock Show, 1912, and was only defeated by the grand champion boar of the show. **Joe** is sired by Nissen's General Allen, the second-prize aged boar at the same show, and he also sold for $500 at public auction last year. Joe will make a great sire and you should get a sow bred to him if you want to breed Hampshires. J. E. Wright is consigning some good sows and gilts and they are bred to Silver Tip Lad 13085, a son of Silvia 16316, champion under-year sow of 1911. Two of her gilts also go in the sale. Every animal in the sale is bred for March farrow and are an excellent lot of individuals. Write me for catalog mentioning The Homestead. Fred Reppert, auctioneer.

C. A. BROOK, - Washington, Iowa.

J. O. JAMES'

BIG ORANGE OFFERING

BRADDYVILLE, IOWA, FEB. 7, 1913

50 HEAD Matured Sows, Yearlings, Spring Gilts **50 HEAD**

22 Daughters Big Orange, 10 Head Bred to Big Orange
3 Big Sensation Sows Bred to Big Orange

Nos. 1 and 2 will be litter sisters to the Elijah Story and Thomas Walker boars that topped my fall sales at $225 and $200, and they are outstanding good ones. I am selling a grand lot of gilts sired by **OTT'S BIG ORANGE**, and quite a few sows are bred to him. There will also be gilts by **Big Sensation, A Wonder Giant, Gritters' Best, Pawnee Nelson, and Long King's Equal.** Catalog now ready. Write for it at once and mention Homestead. Address

J. O. JAMES, BRADDYVILLE, IOWA

Col. H. S. Duncan, auctioneer. M. T. White, field man for Homestead.

DROZ, HANKS & BISHOP DUROC BRED SOW SALE

TO BE HELD AT GILBERT'S FEED BARN,

FAIRFIELD, IOWA, THURSDAY, FEB. 6, 1913

55--HEAD--55

I WILL sell thirty head of great sows, eight yearlings by The Professor, Golden Model II., Jack's Friend, Proud Col., Chief Protection, Col.'s Defender and Chief Select; nine fall yearling gilts by Proud Col. and thirteen gilts by Crimson Wonder I Am, Proud Col., Model Wonder and Advancer. All but one are bred to **Cherry Chief**, the sire of Cherry King, **Chief Select, The Chief's Col.** and many others. If you want to raise you a herd boar buy a sow bred to Cherry Chief.

J. C. DROZ, - FAIRFIELD, IOWA.

WE are selling twenty-five head, mostly gilts, one Model Chief sow, one fall sow by Instructor (grand champion Illinois, 1910), four gilts by Proud Col., four by Model Wonder (and one of them a corker), four by Proud Ohio Chief, one by Highland King (junior champion International Stock Show, 1910), and ten by Col. O. by Proud Col., dam by Ohio Chief II., ten are bred to Model Wonder, nine to Wonder Model (second Des Moines, 1912), and six to Proud Col. Our state fair winners are bred like these litters will be. Buy some of these sows and raise some prize winners yourself.

HANKS & BISHOP, - NEW LONDON, IOWA.

Write to either for catalog mentioning The Homestead. Send bids to Carlos C. Palmer, care Leggett Hotel, and they will be properly cared for. Auctioneers, Cols. N. G. Kraschel and H. S. Allen.

O. E. OSBORN'S SALE

DUROC JERSEY BROOD SOWS

WESTON, IOWA, FEBRUARY 1, 1913

40 HEAD MATURED SOWS, YEARLINGS, GILTS 40

HERD BOARS—KING GANO, the top of the Seddon sale; VALLEY KING AGAIN, the top of the Barker Bros. & Crowell sale.

INCLUDED will be **Chief's Last Pansy**, one of the greatest living daughters of Ohio Chief, bred to King Gano; two **Model Critic** sows; two daughters of **Osborn's Prince of Cols.**; eight fall sows by **Osborn's Prince of Cols**; twenty-seven choice gilts by **Osborn's Prince of Cols.** and **Osborn's Chief Select.** A great offering bred to two of the greatest young boars living. Catalog ready. Write for it. Address

O. E. OSBORN, WESTON, IOWA

Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead.

Attention is called to the W. H. Seddon sale of Duroc Jerseys at Persia, Iowa, January 31st. Also R. J. Harding's sale of Duroc Jerseys at Carson, Iowa, February 3d.

R. M. SKILLEN'S SECOND SALE OF

DUROC JERSEY BRED SOWS

TO BE HELD AT FARM

Greene, Iowa, Monday, Feb. 10, 1913

40 HEAD of big, smooth two year olds, yearlings and gilts. There will be a good two-year-old sow by Kelly's Pilot Wonder (champion of Ohio, 1908), three by Waveland Ohio Chief, eleven fall yearling sows by Chuck's Model (a great son of Model Chief) and twenty-five gilts by Select Goods by Chief Select, Merfield's Wonder by Crimson Wonder Again, Waveland Ohio Chief by Ohio Chief and Chuck's Model. Their dams are by Kelly's Pilot Wonder, Waveland Ohio Chief and Adams Express. These sows are bred to Chuck's Model, Skillen's Col. Gano (a full brother to the noted sire and show boar, Col. Gano), Prince of Wonder by Crimson Wonder Again and a few to Advancer Chief by Model Advance. Write me for a catalog, mentioning The Homestead, and arrange to attend the sale. Send bids to Carlos C. Palmer, Homestead representative, in my care. N. G. Kraschel, auctioneer. Address

R. M. SKILLEN, - - GREENE, IOWA.

E. E. FARVER'S

EXCEPTIONAL POLAND CHINA BRED SOWS

OCHEYEDAN, IOWA, THURSDAY, JANUARY 30, 1913

40 HEAD ALL IMMUNE 40 HEAD

TRIED sows and gilts by FARVER'S GOLIATH, one of the greatest boars of this type in the very heart of the big-type country. He is not all size, but is smooth and well proportioned, and has gotten pigs after his own makeup. Some of the sows will be bred to him and will be the attractions of the sale. To cross on the sows of my own breeding I bought a boar by the Big Defender, out of Pawnee Belle by Dorr's Expansion, dam Evergreen Susie, one of Dorr's great brood sows. He is a boar of great promise and will grow to one of the real practical big smooth kind. Twenty-two gilts by Goliath in the sale and some more that are safe in pig to him. The rest have been bred to E.'s DEFENDER. Tried sows that have been exceptionally good breeders in my herd will be sold and one of the very choicest lots of gilts is listed for the above date. I would like to send you my catalog so you may judge for yourself the great lines of breeding I am selling. J. A. Benson, auctioneer. Ray L. Gribben, field man.

E. E. FARVER, - - - - OCHEYEDAN, IOWA.

When Writing to Advertisers Please Mention The Homestead

ROBINSON'S SALE OF

MAMMOTH POLAND CHINA SOWS AND GILTS

MARYVILLE, MISSOURI, WEDNESDAY, JANUARY 29, 1913

50 HEAD: 21 fine tried sows, 3 fall yearlings, 26 big, toppy spring Gilts 50

PAWNEE PETE 55115, one of the truly great 1,000-pound boars, is the sire or the grandsire of seventeen head. His dam, the great **Miss Corwin 2d**, is included. **Prince Ito 56611** and **Prince Tom 5616**, sons of the great Bell Prince, are sires of many. They are bred to **Prince Tom; Fred Jamison** by Pawnee Pete; **Montecello Boy**, a prize-winning son of Big Expansion, and **Spotted King** by Long King's Equal. All bred for size and quality and I know they will please you if you want big hogs that make good. All vaccinated with Missouri state serum. Send for catalog and note the best guarantee on mail bids ever put out. R. P. Hosmer, auctioneer. A. T. Cole, representing The Iowa Homestead. Address

F. P. ROBINSON, MARYVILLE, MISSOURI

KUPER BROS.' SECOND ANNUAL SALE

DUROC JERSEY BRED SOWS

BELLEVUE, IOWA, THURSDAY, JANUARY 30, 1913

30 HEAD will be sold, consisting of ten yearlings and two year olds and twenty spring gilts. The sows are sired by The Professor, Muncie Chief, Model Wonder, Protection Col. II. and Col. High Bred. Three gilts by Springfield Wonder, two by S. E.'s Premier Col., one by Proud Ohio Chief, one by Protection Col. and the balance are by Ames Col. (second-prize senior yearling boar at Iowa State Fair, 1912). The sows are bred to Ames Col. and Young Premier, a son of S. E.'s Premier Col., and out of a Golden Model 6th sow. Write us for catalog, mentioning The Homestead.

KUPER BROS., BELLEVUE, IOWA

Theo. Martin and G. Fruin, auctioneers.

FRANK ROBERTS' SALE

BIG-TYPE POLAND CHINAS

40 HEAD---10 Matured Sows, 30 Gilts---40 HEAD

EARLHAM, IOWA, FRIDAY, JANUARY, 31, 1913

I AM selling **six choice sows with litters at side.** Also some of the very best tried sows on the farm, viz.: Quality Adair by **Choice Look**, bred to my great boar, Pawnee Wonder; Long Molly, Miss Cora and Rosebud, all daughters of Expansion Jumbo; also daughters of **King Giant, Victor Hadley** and **Pawnee Wonder.** The Pawnee Wonder gilts are all bred to **Giant Jones**, a son of Big Jones 3d.

I will also sell **twenty head of fat steers** that will weigh from 1,300 to 1,400 pounds, also a pair of **Shire bred mares**, the best in this part of the state. Write for my catalog at once and mention The Homestead. Address

Col. H. S. Duncan, auctioneer. **FRANK ROBERTS, EARLHAM, IOWA**

BIG POLAND CHINA SOW SALE

KELLEY, IOWA, FEBRUARY 3, 1913.

THIS sale includes mature and tried sows, twenty-four magnificent fall yearling sows and a number of spring gilts. They are big enough and good enough for anybody. They carry the blood of Tecumseh Longfellow, Big Victor, A Wonder, Big Crow, Dorr's Expansion and other good sires. They are bred to J. H. Hadley, Big Expectation and Pawnee Chief. All have been immunized by double treatment. Send for catalog. Address

CARL A. ROSENFELD, - - - - - KELLEY, IOWA.

ROCK BROOK FARM'S DISSOLUTION SALE OF 125 REGISTERED HOLSTEIN-FRIESIAN CATTLE

AT THE LIVE STOCK SALE PAVILION, UNION STOCK YARDS, SO. OMAHA, NEBRASKA, TUESDAY AND WEDNESDAY, FEB. 4 AND 5, 1913.

80 HEAD of registered cattle, consisting of forty cows 3 to 8 years old, milking or soon fresh, and 20 yearling and two-year-old heifers. These females are all bred to sons of either KING SEGIS, KING OF THE PONTIACS or DE KOL 2D'S BUTTER BOY 3D, three of the greatest bulls of the breed. Ten heifers under one year, some of them granddaughters of the above bulls. Ten bulls ready for service and all out of great producing cows. More A. R. O. blood in these bulls than any bulls offered in the West. Forty-five young high-grade Holstein cows and heifers, all milking or soon due to calve by registered bulls. Every animal over six months is tuberculin tested. The results of thirty years of careful breeding are represented in this sale. Catalog ready about January 25th and will be mailed only on application if you mention The Homestead.

HENRY G. GLISSMAN, STATION B, OMAHA, NEBRASKA.

POLAND CHINA SWINE.

COOPER'S GREAT BRED SOW SALE, HEDRICK, IOWA, FEBRUARY 4TH

AS USUAL, this offering is selected from our herd with the greatest consideration, to present to our visiting friends greater attractions than any preceding effort and we assure all comers one of the very greatest and best offerings of real big bred sows and gilts to go this season in the corn belt. We will include 25 head of 2-year-old and yearling tried sows, several fall yearling gilts and big, stretchy spring gilts weighing over 400 lbs. sale day. These sows are sired by such boars as Big Bone 2d, our present 860-lb. 2-year-old boar, Big Ex, Giant Look, Superior Look, Big Chief 2d, Chief Ideal, Chief I. X. L. 2d and other noted boars the catalog will give. They will be bred to Big Bone 2d, Big Expansion, a son of Dorr's Expansion, Chief Leader and Giant Chief. Send for our catalog. It will be interesting to you, in the big-type blood lines. Arrange to come and see one of the corn belt's best big-type herds of Poland Chinas and one of the most complete swine breeding plants. Mention The Homestead. Address

W. H. COOPER - - - HEDRICK, IOWA

CLOSING-OUT SALE AT SWITZER'S FEED BARN, HAMPTON, IA., FEB. 4, 1913

DISSOLUTION of the Poland China herd of F. P. Menzie—three big-type herd boars, ten mature brood sows and thirty spring gilts. All sows bred for early litters. The boars are Long Columbia (a two year old by Columbia Chief 2d), C Wonder (a grandson of A Wonder) and Mammoth Jumbo 2d (by Mammoth Jumbo and out of Lady Haivor). All are of excellent lines of breeding. Send for catalog. Auctioneers, Cols. A. P. Mason and W. R. Potter. **Anna E. Sharpe, Admx., Hampton, Iowa.**

LIVE STOCK AUCTIONEERS.

PERRY M. BOUNDS
Auctioneer
COLUMBUS - OHIO

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Study at home. Thoro, practical mail course. Endorsed by the peer Auctioneers of the world. Big 40-page catalogue Free. The National Auctioneering School of America, Dept. 218 Lincoln, Nebr., U. S. A.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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Live Stock and Real Estate Auctioneer.
23 Years' Experience.

GEORGE H. BURGE,
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Maryville, Missouri.

COL. C. O. LOWREY, Auctioneer

PEDIGREED live stock. Also have new plan for selling real estate. It is a money getter. Send for it today. Also my terms. Address
EDGAR, - - NEBRASKA.

B. H. KECK, MT. PULASKI, ILL.
AUCTIONEER

Write for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

J. R. THOMPSON
Live Stock Auctioneer,
Write for terms and dates. Reliable, experienced.
MERRILL - IOWA.

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2544 Dodge Street, Omaha, Nebraska.
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Live Stock and Real Estate Auctioneer.
Pure-bred sales a specialty. Write for dates.
Mason City, Iowa

LIVE STOCK AUCTIONEERS.

W. J. THOMPSON
AUCTIONEER
PEDIGREED LIVE STOCK
DORCHESTER, NEB.

I ALSO have a very choice lot of Shetland ponies for sale. Just the thing for a present for the little folks. Priced low for quick sale.

H. S. ALLEN
RUSSELL, IOWA
Pedigreed Live Stock Auctioneer

THOROUGHLY posted, Fine stock sales booked in four states. Also public sale of farms at auction. Write for prices.

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Live Stock and Real Estate AUCTIONEER

WILL sell your live stock, farm or ranch, business or residence lots and town sites. Write for terms and dates mentioning The Homestead.
LEON A. SHEPARD, R. 1, MANNING, IOWA.

C. C. EVANS,
Auctioneer.
Chester White and Farm Sales a Specialty

I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,
C. C. Evans, North English, Ia.

Col. H. L. Igleheart
Elizabethtown, Kentucky.
LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention paper.

N. G. Kraschel
HARLAN, IOWA.
Live Stock Auctioneer

I am conducting sales for the best breeders in the country. Write for dates.

CAREY M. JONES,
Live Stock Auctioneer,
2856 Washington Blvd., Chicago, Illinois

COL. G. W. HALLER, Spencerville, O.
Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates

50 HEAD POLAND CHINA SOWS FOR SALE 50

WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.

WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address

E. F. ESCHER - - - MANNING, IOWA

BIG WONDER, 2d Prize Iowa State Fair Boar

WEIGHS 1000 pounds and the greatest hog today of the breed. Sow sale March 1, 1913. Drop me a card for catalog. Address, mentioning The Homestead,
FRED SIEVERS, - - - - AUDUBON, IOWA.

BIG-TYPE POLAND BRED GILTS

THESE gilts are sired by Longfellow 2d 183143, and Giant Wonder 183147, and are bred to Giant Wonder, L.'s Wonder by Gritters' A Wonder Again and Orange Jumbo by Mouw's Tecumseh Jumbo. Gilts are out of sows by Longfellow, Long Wonder, Miller's Chief Price, Big Orange and Beauty's Jumbo. Write for price, mentioning The Homestead. THOS. LIEN, ELGIN, IOWA.

IMMUNED POLAND BOARS AND GILTS

THESE are the real Nebraska big-type Poland Chinas. They are from big litters and are now in fine breeding condition, having been immuned in early summer. I am pricing them very low as I need the room for my fall pigs. Order at once mentioning The Homestead.
G. A. WIEBE, - - - - BEATRICE, NEBRASKA.

BAIRD'S POLAND CHINA BRED SOW SALE

ON Saturday, January 25th, I will sell a draft of 45 of my big-type Poland China sows, bred for spring litters. 30 head bred to the thousand-pound champion, Columbus. Send in your name for catalog. Entirely sold out of those fall pigs by Columbus. R. B. BAIRD, Central City, Nebraska.

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address
C. H. PORTER - EAGLE GROVE, IOWA.

Herd Headers

OF early fall farrow from one of the oldest Poland China herds in West. Heavy boned, thrifty and big. As good as I have bred in twenty years. The kind that will cost $100 a little later and be worth the money. A small part of that will buy them now. Also see my ad in Barred Rock department.
F. R. BARRETT - CADAMS, NEB.

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address E. V. Waugh, Greeley Center, Neb.

POLAND CHINA FALL PIGS

SIRED by Naiman's Expansion and out of choice old sows and large litters are now for sale at $12.50 each, 3 for $35.00. 50 head to pick from. Order at once. Address John L. Naiman. Alexandria, Neb

POLAND CHINA BRED SOWS Sows by our 1,000-lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts, March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
P. S. & S. BARR, - Davenport, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Iowa

B. B.'s WONDER FOR SALE

I AM offering my splendid bred boar, B. B.'s Wonder, a grandson of old A Wonder, for sale, and he is a good one. Address
BEN BROUGHTON, Lake View, Iowa.

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address
E. J. AUGSPURGER, - PULASKI, IOWA

BERKSHIRE SWINE.

BRANXHOLME FARM BERKSHIRES

WE offer for immediate sale eleven splendid spring boars. These carry the blood of Masterpiece, Premier Francis, Lord Premier's Rival and other noted boars. Prices reasonable and satisfaction guaranteed. MacDonald Bros., Montezuma, Ia.

BIG-TYPE BERKSHIRES

JUNE and July pigs, both sexes, $15. Earlier boars $17. Yearling farmer boars $20. 30 bred sows and gilts $30 to $60. WEST WIND FARM.
M. A. O'BRIEN, R. 2, Reedsville, Wis.

MULE-FOOTED SWINE.

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale.
Samuel Johns, Sec. A., Wilmington, Ohio.

HAMPSHIRE SWINE.

VALLEY VIEW HAMPSHIRES. Breeding stock, either sex, any age, quality unexcelled, satisfaction guaranteed. Fred Wheeler, St. Charles, Ia.

W. H. SEDDON'S GREAT SALE

DUROC JERSEY BRED SOWS

PERSIA, IOWA, JAN. 31, 1913

40 HEAD TRIED SOWS, YEARLINGS, SPRING GILTS 40

12 sows in sale bred to my sensational boar, COL. GANO

THERE will be twelve to fifteen sows in my sale bred to Col. Gano, one of the greatest prize-winning and breeding boars now living. I am also selling daughters of Chief's Protection, C. H.'s Special, Golden Model 11th, Freed's Col., C. & E.'s Prince of Cols., Clovercroft Chief and A. F.'s Pilot Wonder. These are bred to Col. Gano and Model Select. Two brood sows and seven choice Col. Gano gilts in my sale. Catalog can be had by writing for it and mentioning The Homestead. Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead. Address

W. H. SEDDON, PERSIA, IOWA

Attention is called to the O. E. Osborn sale at Weston, Iowa, on February 1st, and the R. J. Harding sale at Carson, Iowa, February 3d.

W. H. BARR & SON'S SALE

POLAND CHINA BROOD SOWS

RED OAK, IOWA, FEB. 4, 1913

40 HEAD---3 Matured Sows, 7 Fall Yearlings, 30 Choice Gilts---40

WE ARE selling a grand lot of brood sows bred to a great trio of herd boars, viz: B's Mastodon, Pawnee Sensation and Orange Longfellow. We are selling sixteen cracking good spring gilts by B's Mastodon in our sale, and they are all bred to Orange Longfellow, one of the greatest sons of Big Orange. Also some good daughters of Pawnee Sensation, Quality and other well-known boars. We have been breeding Poland Chinas for a quarter of a century and we never had a better offering than we are selling in this sale. Write for our catalog and kindly mention The Homestead. Address

H. S. Duncan and Bob Adkins, Auctioneers. **W. H. BARR & SON, Villisca, Iowa.**

CHESTER WHITE SWINE.

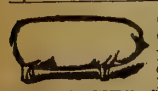
AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

ALDEN ANDERSON, ELLSWORTH, IOWA

Anderson's Chester Whites

70 1912 fall pigs, weight 75 to 100 pounds, If you want size, length, and bone with plenty of quality I have them. They are good enough to ship C. O. D. anywhere. Buy a few of these gilts or a boar now. They are priced to sell. Pedigree furnished. Address **ED ANDERSON, R. 2, ALTA, IOWA.**



SWEEPSTAKE 28006 WEIGHS 1260, 1ST AND CHAMPION

Boar at Iowa, 1912, heads our herd of Chester Whites. **We ship c. o. d. and pay all express charges.** Choice growthy bred gilts. Catalog free. We also offer for sale Recorded Shire Fillies, and Mares in foal. Write

B. M. BOYER & SONS - - - FARMINGTON, IOWA

Col. W. H. Irwin

Auctioneer

I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.

Harrod, Ohio

GOULD'S CHESTER WHITES

40 head of pure-bred males for sale. Sired by Jumbo Chief and Captain C. I have good length, heavy bone, well-proportioned individuals. Satisfaction guaranteed. Shipped on approval. Address Frank A. Gould, 1¼ miles N. of Rockwell City, Ia.

CROSIER'S O. I. C.'S

LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address

CHAS. W. CROSIER, - Juniata, Neb.

I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address

E. H. KAHL, - Buffalo Center, Iowa.

SCHEHL'S CHESTER WHITES

WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rouen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

BOARS ALL SOLD

GOOD lengthy gilts, weighing 200 pounds, safe in pig. Price $30 each. Sire, Michigan Chief, an 800-pound boar at two years old. Address

J. T. SCARFF, Salem, Henry County, Iowa.

30 CHESTER WHITE

SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.

S. J. PHILSON, - Harlan, Iowa.

Chesters and Short-horns

I HAVE a number of males and gilts, of the very best breeding, none better. They are large and growthy and in fine shape for service. I also have one yearling past and two spring bulls that are hard to beat in the Short-horn blood. S. M. Thompson, Birmingham, Ia.

I SHIP C. O. D.

CHOICE registered Chester White swine. Both sexes, not akin. Farmers' prices. Pedigrees free

GLENN RIDER - Farmington, Iowa

CHESTER WHITE GILTS

CHOICE heavy-boned bred to Lewis B. No. 22617 for March and April farrow. Get my price. Address

JOE EGELHOF, CUBA CITY, WIS.

CHESTER WHITE BOARS

OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address

VANDERSLICE BROS. Cheney, Neb.

Young's Chester Whites

SPRING boars and gilts of select lines of prize-winning blood, and from high quality mature sires and dams. Only good pigs offered. Will meet buyers at train if notified.

M. W. YOUNG - ANKENY, IOWA

Chester White Sows

25 bred sows and gilts for sale. Some are show sows and all are as good as can be found. Some gilts weigh over 200 pounds. Bred to an 800-pound show hog. **Earl Bloom, Bridgewater, Iowa.**

Burkett's Chester Whites

SOME real herd heading young boars. Also a number of choice gilts, for sale at reasonable prices. Address W. H. Burkett, Beaver Crossing, Neb.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

D. K. O'DAY'S

BIG DUROC AND FINE STOCK SALE

AT FARM

Burnside, Ill., Tuesday, February 4, 1913

THIS IS A CLOSING-OUT SALE. EVERYTHING GOES

70 HEAD of Durocs including my herd boars, tried sows, spring gilts, etc. Sows and gilts are bred. Seventeen head horses including mares of 1,600 pounds, due to foal early. Matched gelding and fancy road teams broke double and single. Nine head Hereford cattle including cows, calves, and one herd bull. Farm implements of all kinds, harness, etc. Pure-bred poultry, chickens, ducks, geese, turkeys.

SEED CORN

75 BUSHELS selected Reid's Yellow Dent seed corn, twenty-five bushels selected Boone County White. It's a great opportunity for Homestead readers to buy the best a progressive farmer has to sell. All trains on T. P. & W. R. R. met at Burnside. Trains on the C., B. & Q. R. R. met at Adrian. All visitors returned to trains after sale. H. E. Browning will represent The Homestead. Cols. Fred Reppert, J. W. Story & C. L. Greer, auctioneers. For full information address

D. K. O'DAY, BURNSIDE, ILLINOIS.

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped out. Can ship by Adams or U. S. Express. Write today. **MIKE SHARP & SONS, COAL VALLEY, ILLINOIS.**

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address

HUGHES ATKINSON, - - - MT. STERLING, KENTUCKY.

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 375 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS**

BRED SOWS FOR SALE

FOR March and April farrow. They are bred to Look Out, an outstanding boar, also Rival Chief and P. M. Maloy. This breeding should make a good cross. Prices reasonable. Write

GEO. LIPPERT - - - - MAGNOLIA, ILLINOIS

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address

H. D. DE KALB, - - - - Dekalb, Iowa.

THE UNDEFEATED BOAR MESSENGER BOY 6179

HEADS MY HERD OF HAMPSHIRES. I have nothing to sell at present. The great demand for boars and gilts by Messenger Boy and sows bred to him has taken everything I can spare at present

CLAYTON MESSENGER - - - - KESWICK, IOWA

SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.

C. A. BROOK, - - - - WASHINGTON, IOWA.

WE ARE offering ten yearling sows bred to Capt. Porter, a mammoth boar, for March farrow. Eight gilts bred to the Kentucky-bred boar, Rival Lad, for April farrow. These hogs are of the best breeding and are priced very reasonable. Write us for description and prices.

WOOD & WESCOTT, SHEFFIELD, ILLINOIS

GOODENOUGH'S HAMPSHIRES

BOARS all sold but two extra good yearlings. I will hold a public sale of bred sows and gilts on January 27, 1913. Write me, mentioning The Homestead.

A. L. GOODENOUGH - Morrison, Illinois

IMMUNIZED HAMPSHIRES

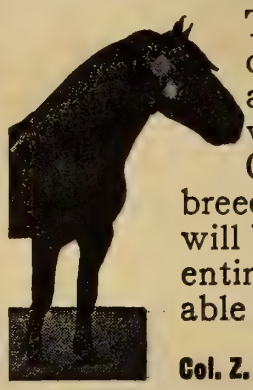
OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address

J. CROUCH & SON, La Fayette, Indiana.

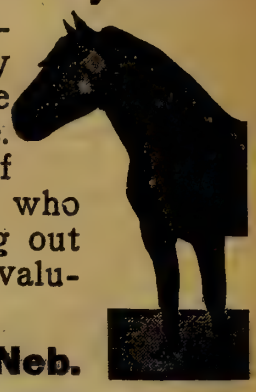
GRAND CLOSING-OUT SALE PERCHERON STALLIONS AND MARES

35 HEAD The Entire Studs of L. M. Phelps, Trumbull; W. D. Phelps, Trumbull, and D. D. Case, Giltner, Nebraska, will be Sold in Sale Pavilion, **35 HEAD**

HASTINGS, NEBRASKA, WEDNESDAY, FEBRUARY 5, 1913



The entire offering is made up of good useful horses. They are all recorded or eligible to record in the Percheron Society of America. Nearly all are blacks, all of working age are broken to work. There will be offered about five stallions that are ready for good hard use. Others will be offered that may be used moderately. The mares of breeding are in foal mostly to the great son of Casino, the noted Monico, who will be sold in this sale. Everything in this sale will sell. We are closing out entirely. Send for catalog, it is full of details of the offering and much valuable information. Address, mentioning The Iowa Homestead.



Col. Z. S. Branson, auctioneer. **D. D. CASE, Sale Mgr., Giltner, Neb.**

O. S. LARSON'S
Great Sale
KING THE COL. BRED SOWS

LOGAN, IOWA, JAN. 30, 1913

I AM selling 25 choice sows in my sale bred to that great sire, **KING THE COL.** (the sire of Col. Gano, one of the greatest boars now living). I am selling a great daughter of the grand champion boar, B. & C.'s Col.; two choice gilts by Chief Select; two full sisters to Col. Gano, and others by Golden Model 11th, Proud Col. and other well-known and prize-winning sires. I am also selling four daughters of King The Col. in my sale. Catalog can be had by mentioning The Homestead when writing for it. Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead. Address

O. S. LARSON, LOGAN, IOWA

DUROC JERSEY SWINE.

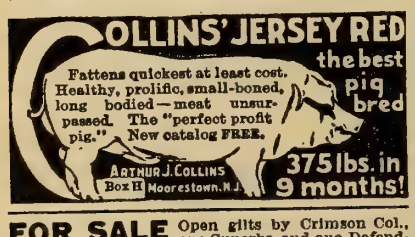
Golden Model II. Bred Sow Sale

ON **FEBRUARY 11th** we will sell 40 Duroc Jersey bred sows, 20 will be bred to the unequaled sire of winners, Golden Model II. Others bred to High Model (grand champion Iowa, 1912), Golden Model 31 (grand champion Sioux City, 1912), and Sensation Wonder (3d Iowa, 1912). Our 1912 herd of show sows are included. More good sows in this sale than will be sold in any other sale this year. Write for catalog mentioning The Homestead. Address

WALTEMEYER BROS., - - MELBOURNE, IOWA.

MASON & BRACKMYER'S DUROC SOW SALE

MORRISON, ILLINOIS, JAN. 28, 1913. 50 head of bred sows, sired by S. E.'s Crimson Wonder, State Fair Col., Z. K.'s Col. Bred to Chief Orion, Royal Col. and Mason Wonder. Write for catalog, mentioning The Homestead. MASON & BRACKMYER, Morrison, Illinois.



FOR SALE Open gilts by Crimson Col., one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address
C. B. REAM - Route No. 6, Lima, Ohio.

VON SEGGERN'S DUROC JERSEYS

150 SPRING PIGS sired by the 1,000-lb. boar, Critic's Banker, and Lady Bob's Proud Chief. Write us your wants. Mention The Homestead.
VON SEGGERN BROS. - WISNER, NEB.

Duroc Jersey Bred Gilts

20 March and April gilts sired by Wonder's Model (2d Iowa 1912) and bred to Colonel J 99573, a great son of Prond Col. dam by Model Wonder. Gilts weigh 200 to 225 pounds. Price low. Address
JOHN KREBS - RIVERSIDE, IOWA.

At $10 and $15 You can have the pick of our bunch of fall Duroc Jersey pigs, and we also have a number of choice sows for sale. Also some late gilts that will sell at small advance over market. Breeding first class, hogs healthy and all right. Bargains, address today
A. A. Martin & Son, R. 4, Box 107, Lincoln. Neb.

FALL PIGS AND BRED SOWS Will be offered for next few weeks at from $10 to $40. White Rock cockerels and W. Holland toms. Address EARL ROBERTS, Ulysses, Neb.

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Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.

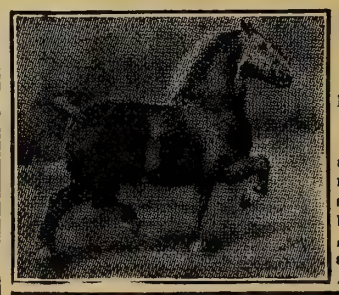
BOX 80 LINCOLN, NEB.

2 SHIRE MARES

One 8 years old and the other coming 3. Good big ones and well matched. One bred and sure in foal. Price very reasonable. 4 miles west of the Iowa Agricultural College. Thos. F. Kennedy, R. F. D. 1, Boone, Ia.

PERCHERON STALLION

in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C.W.Chandler, R. 4, Kellerton, Ia.



W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars. Large CALENDAR now ready.

PERCHERONS SHIRES BELGIANS

MAMMOTH JACKS AND JENNETTS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK - - - LITCHFIELD, NEBRASKA

Hart Bros.

Osceola, Iowa

Our **1912 importation** now in our stables. A high-class lot of imported **Percheron, Belgian** and **Shire stallions** and **mares.** Come and see them.

FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

The POWER OF PERCHERONS

BIG crops emphasize the necessity for first-class horse power. Quicker trips to the elevator, with heavier loads, means **real money,** and during the approaching winter mares might just as well be carrying profitable Percheron foals instead of inferior, light weight young. Write me for free bulletin C. It tells all.

Purchase Percherons

Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

VAN STEENBERGE'S DRAFTERS

40 **HEAD** Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,

OGDEN, IOWA

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

PERCHERON, BELGIAN AND SHIRE STALLIONS and MARES

I CAN sell you **a better stallion than you can buy elsewhere in this state for $1,000.** I have a splendid lot of yearlings, also twos and threes and one six-year-old stallion. I am also offering some splendid Percheron mares for sale of all ages. Write or come and see me.

P. J. EGGERS - DENISON, IOWA.

HORSES AND JACKS.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1912

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 5th 1912 importation arrived Oct. 29th. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

PERCHERONS BELGIANS SHIRES

Our horses are the best that money and experience could secure in Europe, and we invite the inspection of critical buyers. We have no long story to tell in our advertisement. Our horses tell their own story and we want you to be the judge. We give the most ample guarantee and any responsible person can make the easiest of terms. Come and see what we have to offer.

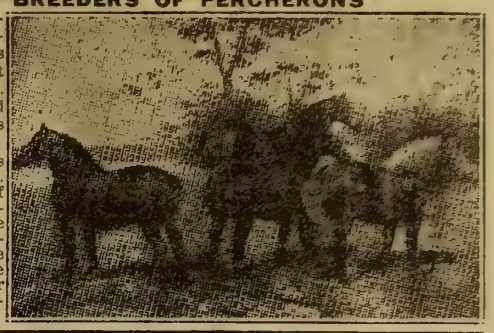
TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY, ILLINOIS

On Chicago & Alton Railroad and Illinois Traction System

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

Merry King 13229
Imp. & owned by John Leitch, Prop. Avondale Stud Farm La Fayette, Illinois.

This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION

We have all ages. Write for catalog, prices and terms. Mention Homestead and address

J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.

HOMEWOOD STOCK FARM

Our New Importation of

100 PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

Arrived October 15th and can now be inspected at our stables. If you want to save from $300 to $500 on a stallion or a pair of young mares you can do so by buying at once. **Every animal guaranteed sound and a satisfactory breeder.** Write at once for particulars or call at the farm.

S. METZ & SONS - - - HOMEWOOD, ILLINOIS

Homewood is on the main line of the Illinois Central and Big Four Railroads, 23 miles south of Chicago, with trains every hour. Bell phone, Homewood 58 W.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for circulars. Catalog ready Dec. 1st.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

WHY ARE YOU

HOLREY (76516) 62688

reading this advertisement? Because you want prices and terms on the late importation of **PERCHERON** stallions now in the barns of

E. J. HEISEL, Fremont, Mahaska Co., Iowa.

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C., B. & Q. R. R.

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

FAIRVIEW JACK AND JENNET FARM

60 **HEAD MISSOURI AND KENTUCKY BRED.** A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP, BOLIA, PIKE COUNTY, MISSOURI

MORE THAN **$500,000 GIVEN AWAY!**

Sounds Like a *Mighty Big Statement*—
But This Is *Exactly What I Want to Give*

TO AGENTS! SALESMEN! FARMERS! STOCKMEN!

I am "MARSHALL" — E B Marshall
President, WILBUR STOCK FOOD CO., Milwaukee, Wisconsin

—and I want **you** to **KNOW** that **I** am going to **DO exactly what I say.** When I tell you that **I want to give away** this **enormous sum**—$500,000—or more—I mean **just that**—and I am talking about $500,000, or more, in **cold cash—good, hard United States money**—the kind that a man can **put in his pockets and hear the merry jingle**—or run through his fingers and admire the pretty **yellow backs of it.** Do you **UNDERSTAND, now**—I'm talking about **REAL MONEY?**

YOU CAN HELP ME in my **PLAN** to place **WILBUR'S STOCK AND POULTRY TONIC** on **every farm in your vicinity.** And **I can** and **will HELP YOU** get a **good, big slice** of this **$500,000 in cold cash**—and

You Don't Have to Invest One Penny!

I am not going to **stop, now,** to explain to you about **WILBUR'S GUARANTEED STOCK AND POULTRY TONIC. Every stock-raiser and farmer in the country** knows that it is the **best conditioner, feed-saver** and **disease-preventive** and **system-regulator** in **America** for cattle, hogs, horses, sheep and poultry—if he feeds live-stock for **profit, at all.** I am not going to tell **you** more about **that**—because, while that's **all well and good,** what **YOU WANT TO KNOW** is

HOW YOU GET YOUR SHARE OF THIS $500,000. OR MORE

—and that is **why** I want you to

SEND ME THE COUPON BELOW AT ONCE!

I HAVE A PLAN! I am not going to give you the **particulars, here. I haven't space to do it.** And I want you to take enough **interest** in getting **a nice, big chunk of this**

REAL MONEY to **write me** and ask me **just what my PLAN and PROPOSITION are** **TO YOU!**

I'll just give you a little **"tip,"** though—here—that will get you started to **thinking.** And I believe you **will** think, and **think hard**—and **right**—that here is **one great, big, glorious opportunity** for **YOU** to

Help Yourself To a Generous Slice of This $500,000

—or more. There was **nothing ever more TRUE!**

I AM GOING TO ORGANIZE FIVE HUNDRED WILBUR STOCK AND POULTRY TONIC CLUBS!

I am going to spend **as much as $1,000** on **each Club.** Think what **that means** —to **YOU!** Getting **interested, NOW—aren't you?** If you're **NOT, you ought to be. Money talks**—and here's where it **talks Loud**—and it's **talking** to **YOU!**

YOU Help ME on This CLUB PLAN and YOU Have The OPPORTUNITY To Make Thousands of Dollars in Cold Cash, for Yourself

Now—**all you've got to do**—to know **all about** this PLAN—and **what I am GOING TO DO,** and **my proposition** to YOU—is to **sit down and fill out the** COUPON at **corner of this Announcement,** and MAIL THAT TO ME—E. B. Marshall, President, WILBUR STOCK FOOD COMPANY.

Now, **remember:** that is ALL you've got to do—to know **everything** about **my** PLAN and **proposition,** and how YOU can get **your generous share** of this REAL MONEY that I, E. B. Marshall, am willing to **give away** to people just like YOU. You **don't** have to order ANYTHING. You don't have to send me ONE CENT **of money.** You don't have to **involve or obligate** yourself in **any way,** to **anything. Just simply fill out** the COUPON **and** MAIL IT. THAT'S ALL. Costs you **two cents** to do that. Better **do it:** TODAY. A liberal chunk of this $500,000, or more—ought to be just as acceptable to **you** as to **anybody else**—HADN'T IT? If you **want it**—**GET BUSY! I'm** not going to WAIT—and **you** CAN'T AFFORD to wait. RIGHT NOW, is the TIME, the PLACE, and the BIG PROPOSITION.

E B Marshall
Pres. Wilbur Stock Food Co.
Dept. C Milwaukee, Wis.

$500,000 DISTRIBUTION COUPON

E. B. MARSHALL, President
WILBUR STOCK FOOD COMPANY
Dept. C Milwaukee, Wis.

Please send me particulars of your **FREE $500,000 DISTRIBUTION.** This does not obligate me in ANY WAY

Name _____

P. O. _____

County _____

State _____ R.F.D. _____

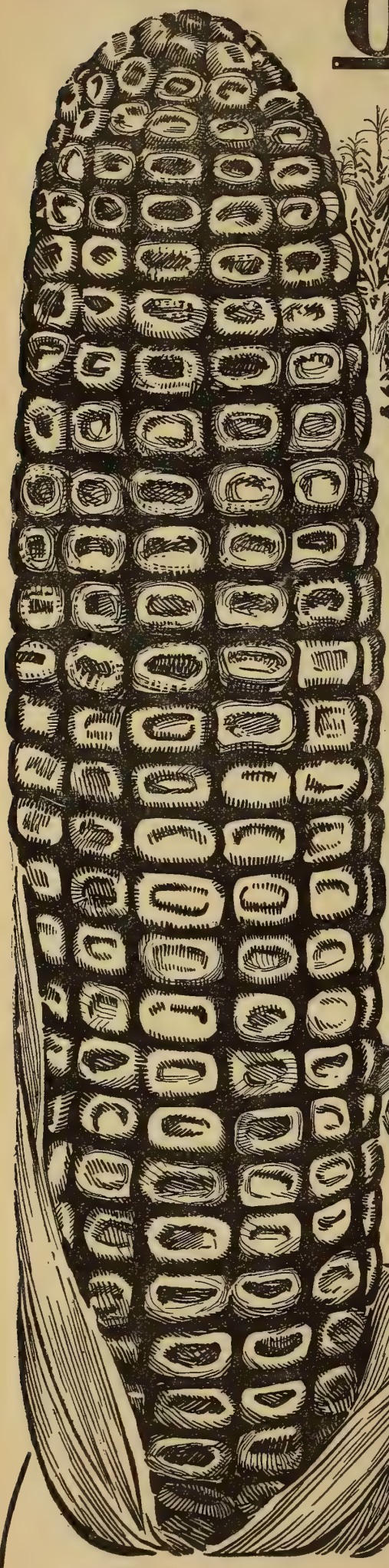
MAIL THIS

V. 58

The Iowa Homestead

VOL. LVIII. NO. 5 DES MOINES, IOWA, JANUARY 30, 1913. WHOLE NO. 2886.

The New Corn Country On the Louisiana Gulf Coast



Look to the *South!* Louisiana has given the country a *new corn belt.* She offers a future of untold wealth to you Northern farmers if you will go down there *now* and work that *black, rich Gulf Coast soil.*

This land yields corn which cannot be surpassed in any other section of this country. The quantity and quality insure a bigger return than you are getting out of your Northern acres. Eight weeks after Louisiana corn is planted it is at the roasting ear stage. That's the magic of the warm, life-giving Gulf Coast climate.

It's the most fertile soil in the world. It gives *you three crops* instead of *one*—three incomes instead of *one.* There is a big corn crop and two other profitable crops from the *same land,* the *same year. Crop time* is *all* the time.

You can purchase this land of year-round *harvests* for as low as $10 an acre, and for $25 an acre you can get soil that is selling for $125 right where you are *now.* This *land bargain* will not *last.* Prices are already beginning to rise. The low price is due to the fact that until recently proper transportation facilities were lacking. Today you can transport your products as speedily and as safely as in the North at greatly reduced rates. Think this proposition over *now.* Act before it is too late.

Your Farm Loafs a Third of the Year---the Gulf Coast Farm Works Twelve Months

That Northern farm *loafs a third each year.* It is idle *all Winter.* It eats up the profits of the *one season* harvest. You are being *cheated* by the *climate.*

The Gulf Coast farm *never* rests. Every day it yields *more dollars* to the man working it. There is *no heat* to *parch, no cold* to *freeze* the products. In this section the temperature rarely goes above 90 degrees in Summer or below 40 degrees in Winter. The mean annual temperature ranges close to 70 degrees according to the government records. This wonderful, balmy climate is *always* giving life to something—money to you.

What Successful Farmers Say About the Gulf Coast Land

The Gulf Coast country has made men like you free, happy and *rich.* Men just like you went down there and *succeeded* beyond their fondest hopes. These neighbors like men want *you,* farmers to work *all the land.* What they have *done you can do.* They have fat bank accounts—you can have the same.

J. B. Hill, of Raceland, La., writes:

"I came from Findlay, Ohio. I have been on my present property for two years. My family consists of myself, wife and nine children. My doctor's bill in two years has been $35.00 gross; a large percentage of this has been due to minor accidents to my children.

"We are all in the best of health, and think most well of this country. My wife was an invalid when we came South, but has hardly been sick a day since we landed in Louisiana.

"We have 147 acres; 135 in cultivation, 130 of this in corn that will easily run 65 bushels to the acre. My highest test was 83 and my smallest 67 bushels. Following a crop of garden truck, I have harvested a crop of peanuts."

Best Corn Land in World

Dean Funk, largest corn grower in Illinois and president of Funk Bros. Seed Co., Bloomington, writes:

"In the Louisiana Delta the Northern corn grower will find his Utopia. No soil in the world contains more of the elements essential to the maximum crop of corn. Once the northern man is shown the country and its productiveness there is no question but that he will buy land here and bring many of his friends to share in the bounty which is so evident on every hand."

Three Crops in One Year

Three crops in *one year.* That's the rule, not the exception, in *this* country. In February you can plant a profitable crop of potatoes. Then comes your corn and a *splendid profit.* Then you can work that same land again and raise potatoes or stock beets. These beets yield 10 to 30 tons an acre.

Raise High-Priced Products of the South

Besides the Northern products you can make a big income from cane, cotton, rice, pecans, oranges, tobacco, alfalfa and lespedeza.

This is the Young Farmer's Chance

Don't be handicapped by the climate as your fathers were. Go to this marvelous country NOW. You can buy this fertile land *cheap* and be independent. It's the best climate in the world. Electricity, the telephone, rural delivery and schools are there for you. You can enjoy the warm hospitality of the South of which you have read.

You farm this land as you farm the land up North. You won't have to work half as hard. Your returns will double.

This Isn't a Boom—It's a Development

This Gulf Coast country is not a boom. It's a natural development. Every inch is fertile and awaits you. The new main line of the Frisco has given excellent transportation facilities.

Get the Value of the Panama Canal

The Panama Canal will make New Orleans the greatest shipping point of the South and West. It will create a tremendous market for Gulf Coast products. This is another big advantage if you purchase a Gulf Coast farm.

Look the Country Over Before You Buy

This is the one big chance of your life. Don't delay. The prices are going to rise. The cost of an inspection trip is low. Round trip tickets sold first and third Tuesdays of each month, via Frisco Lines. Price from Chicago, $37.50; St. Louis or Kansas City, $32.50 or less.

A. Hilton
Gen. Pass. Agent, Frisco Lines, 3731 Frisco Bldg., St. Louis, Missouri.

Write for Illustrated, Handsome Book Free

Write for full information today. Read our splendid illustrated book. Get at all the big facts. Don't waste a minute. Hundreds have seen the opportunity. Why not you. Think, read—then DECIDE. All information free.

I want to know the real facts about the Louisiana Gulf Coast. Please send me your complete literature free.

Name .....

Address .....

FRISCO SYSTEM

A. HILTON, Gen. Pass. Agt.
FRISCO LINES
3731 Frisco Bldg., St. Louis, Mo.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JANUARY 30, 1913.

Success With Consolidated Schools

How Buena Vista County, Iowa, Has Tried the Experiment With Splendid Results.—*By County Superintendent J. A. Woodruff.*

HARDLY a week passes but there is at least one letter of inquiry which comes to my desk asking about the consolidation of schools in Buena Vista county, Iowa. The increase in the number of inquiries gives evidence of a widespread interest in rural schools and

CLOSED BUSES TRANSPORT THE CHILDREN IN WINTER.

a desire on the part of the people to secure better school conditions for the children of our farm communities. Of one thing I am convinced, and that is, that the people of the grain belt are becoming interested in their rural schools. They are becoming awakened to the need of a better condition. They know that something should be done. Many are simply waiting for something to turn up. Others have reached the anxious stage and they are beginning to investigate. It is from these people that letters are being received. All manner of questions are asked and those found most often are, "How many consolidated schools have you in your county?" "Is consolidation a success?" "Has it increased the taxes?" "How about transportation?" "Are people afraid of it, especially for the smaller children?" and a hundred and one like questions. I recall one letter, in particular, of two typewritten pages, all questions. The best way to meet these is to tell of conditions as they are and let people judge for themselves.

There are in Buena Vista county three consolidated schools. One at Marathon, which embraces an area of twenty-four sections; a second at Newell, of twenty-eight sections; a third at Truesdale, of sixteen sections; while just over the line in Clay county, and adjoining the Marathon district, are two more, making in all, five consolidated schools within a radius of fifteen miles.

The first of these schools was started at Marathon in 1903. It will not take a scholar or a philosopher to figure out that had the people at Marathon not been satisfied with the system, the other schools would never have been started. But what was true in this instance is nearly always true. It is in those locations where consolidation is best known that it has made greatest progress.

Many suppose consolidation to be a new thing, but this is far from being the truth. The first school of the kind was started in Massachusetts more than forty years ago and today Massachusetts is spending nearly a third of a million dollars for transportation, while Indiana is a close second with something like $300,000. According to government report, not one of more than 1,800 schools of this class that have been organized and fully established has ever gone back to the old system.

The story of consolidation in Buena Vista county can best be told in the story of the school at Marathon, the reason being that the school is older and has had a longer period for development. The building is of pressed brick and cost about $20,000 when erected, but would cost half as much again if it were built today. It is divided into three compartments by fireproof walls, and is modern in construction throughout. The heating and ventilating system is equal to that found in any of our best city schools. A fan in the basement forces a stream of fresh air over the furnace into the rooms and out through an opening in the tower. The lighting is perfect, and poor lights, which have been the source of much irritation to weak eyes, with accompanying headaches and unlearned lessons, are unknown. The seats are suited to the size and comfort of the pupil and when one enters this school he finds no child perched on a seat four sizes too large for him and feet dangling six inches from the floor.

The faculty are, and always have been, either normal trained or teachers possessed of a rich and successful experience. From the time the school was organized until the present, each succeeding year has seen some change for the better in its courses, until today the school offers, in addition to the regular academic subjects, agriculture, domestic

SOMETIMES THERE IS A BOBSLED RIDE TO ADD ZEST TO SCHOOL GOING.

science, manual training, and a teachers' training course.

The transportation system includes six enclosed wagons or buses that bring nearly 140 children from the surrounding farm homes each morning and return them in the evening. A few of these children must ride seven miles or more and start quite early in the morning, but this is the exception and not the rule. Four years ago when investigating as to how far children must travel, I found that of the 127 pupils transported at that time less than ten were obliged to travel more than four miles. The question is often asked, "What is done in case of bad roads?" In case of very bad roads caused by either mud or heavy snows, the buses do not run. The schools are closed to the children of the town, as well as to those in the country. In this way classes are kept together and all children are treated alike. But to close the schools because of bad roads is not often necessary. A worse condition than existed last winter can hardly be expected or imagined, but with all the bad weather, there were but four or five days that the buses could not run. When they were blockaded, the trains were blockaded, and often the bus roads would

(Continued on page 9.)

THE FINE $20,000 CONSOLIDATED SCHOOL AT MARATHON, IOWA, AND SOME OF THE PUPILS WHO ATTEND.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

A "SURE THING" FARM POLICY.

A Kansas subscriber points out the advantage that comes to the man who adopts a diversified cropping system and in addition keeps sufficient live stock to consume the greater part of the grain and roughage raised on the farm. Among other things this subscriber says:

Farmers are making a great mistake in the one or two crop method. Diversified crop raising and stock raising should be, and sooner or later will be, the farmer's slogan.

Better tillage of the soil is necessary, and cannot be well done when the one or two crop method is used. Unfavorable weather and an immense amount of work coming all at once, is the cause of slack methods in tillage. Should even four or five different crops be raised, more time would be had to properly prepare the ground for seeding. It is necessary that the soil be thoroughly prepared before seeding. No matter what the crop is, a poor yield surely will follow improper preparation. If twenty acres were sowed to winter wheat, twenty to oats, ten to barley, twenty seeded into hay meadow, two or three to potatoes, thirty to corn and thirty to pasture, there would be a variety—no two needing attention at precisely the same time, thus scattering the work throughout the entire year. There would be no excuse for poor tillage and such light yields as is common. If one crop failed, some of the rest would succeed, and some income at least would follow our efforts each year, even though drouth would hit us. The rotation of crops would help maintain the fertility of the soil, and make plant food more available. Intelligent, systematized, mixed farming would save much of our moisture that now passes off as vapor.

Farmers are selling the vitality of their land in the form of grain and roughness. Indeed, far too much of this is done. Raising crop after crop of alfalfa, sometimes five crops annually, and selling on the market, surely reduces the productiveness of land producing it and in a short time will cause such land to be a barren waste.

The constant raising of crops on land, no matter how rich, will in time practically be the ruination of such soil. The solution is rotation of crops, raising hogs, cattle, horses and sheep to such an extent, if possible, as to eat the most of the crops raised, and all the fertilizer and waste be returned to the land producing it.

With proper care and attention, most always there is a living profit to be made out of raising live stock, and the future welfare of ourselves, our children and our children's children, demand that this be done.

If we do not like to handle live stock it matters not, we must handle them. If we are good to them, they will like us, and we will reciprocate and before we know it we will like them. Nothing in agriculture is more satisfying than to have a variety of good crops in abundance, with just enough fat sheep, hogs, calves, cattle, colts and horses to eat up all we raise without any being wasted each year. These are cashable products, easily gotten to market, and your land will grow better and better, as well as you will grow more and more prosperous each year.

This is the ideal way, the sure way, and the only sane way to farm.

No one will take issue with us when we say that the system commended by this subscriber belongs to the "sure thing" class. Theoretically it is ideal and we would be better off if this idealistic conception could more rapidly find its way into common practice. Many a grain farmer finds that his crops are growing a little less each year and yet for lack of capital he is unable to change his methods. To him foundation breeding stock looks exorbitantly high in price so that he goes along year after year with but one particular goal in view, namely, to desert the land and join the great body of consumers. Where a sensible system of live stock raising can be once started the whole situation may be saved and the soil instead of going back in productiveness may be gradually made more responsive, leading ultimately to a more substantial prosperity and a permanent home for the individual who has wisdom enough to carry out this policy.

TANKAGE AND OIL MEAL FOR PIGS.

An Illinois subscriber gives his experience in feeding oil meal and tankage to brood sows, in the following communication:

I am often asked why I feed tankage and oil meal when they are the highest-priced concentrates I can buy on the market for hog feed. My first and best reason is because I have nothing better and can get nothing that will return me as much for the dollar invested. I raise quite a lot of soy beans which make an excellent feed to balance up corn, and the hogs like them, too, but as they sell readily for over $2 per bushel wholesale, I can hardly afford to feed any except the cracked and unmarketable ones. These do not go very far with 100 to 200 pigs a year, so I must look elsewhere for my protein, especially in winter, as I raise two litters of pigs a year and the fall pigs must be carried through the cold weather.

Several years ago I fed ground oats, corn and oil meal and the pigs did exceedingly well on this together with ear corn, despite the fact that some folks say oats are not a fit feed for pigs. I believe the oil meal counteracts the irritation caused by the oat husks. Oil meal comes the nearest to taking the place of grass with young pigs of any concentrate I know of. It keeps the bowels loose, thus sharpening the appetite and giving a soft, mellow appearance to the hair and skin. Oil meal is not good to feed by itself, but should be mixed with other feed in the form of slop, and don't feed too much.

Three years ago I wintered 110 fall pigs and did not lose a single pig the entire winter. I was feeding ground barley, oil meal and corn and most of the pigs did well, but seventeen of the smallest ones quit eating anything but a little ear corn. They were not fit to sell when the others went to market. I began slopping them with oil meal and tankage made into a slop about the thickness of cream, feeding about five gallons of this twice a day. In a week these pigs were acting like new creatures and in two weeks they were ready to take corn enough to begin to thrive and they made even nicer pigs than the best of the lot sold earlier.

Like all other farmers during the rush of fall work I neglect the fall pigs until they begin to show signs of unthrift or even sickness. At such times nothing equals slop made of oil meal and tankage. Last fall I had a few young brood sows that had been left with the fattening hogs too long and at mating time they were too weak in their legs to hold up a young male hog. They would lie down and squeal and I thought them ruined, but I cut down their rations to one ear each twice a day and slopped them twice a day. Within a week they seemed brighter and more active and by the time three weeks had passed they were as strong for service as old sows. It seems almost incredible the great difference feed and care will make. One feed will not do it, it must be continuous.

For eighty-five fall pigs weighing from fifty to 100 pounds each I mix five to six quarts of oil meal in the slop pail with hot water and let it stand about twelve hours, or until the next feed, then put in about the same amount of tankage, adding enough water (or milk if you have it) to make twenty or twenty-five gallons. This will give the pigs about a quart apiece. They like it and do not seem to tire of it, either, as they do other feeds. I feed this same mixture to brood sows, but I am careful not to feed too much oil meal to pregnant sows or they might lose their pigs. I feed about one quart to ten or twelve sows and have never had any bad results from its use. Eleven sows that were fed oil meal with other food all winter farrowed me 123 pigs and started 111 of them. Ground oats may profitably be added to the above for all kinds of hogs, but I can see no value added to corn from the grinding.

We believe that every farmer who has had experience in the use of foods rich in protein like oil meal and tankage will endorse the views of this subscriber. We have always favored the plan of using a little slop not only for brood sows, but also for fattening hogs, our theory being that slop aids in the digestion of dry food and where material like oil meal or tankage is used in sufficient quantities the effect is to balance the ration. The results obtained by this subscriber will justify every man who is feeding his sows largely on corn in following this good example. It requires good feeding and good management to start off 111 pigs from eleven sows and the methods employed in bringing about that result may be safely copied.

THE CONSOLIDATED SCHOOL.

It is extremely interesting to note the importance which recently inaugurated governors attach to agricultural subjects in their inaugural addresses. County farm experts, good roads, appropriations to check hog cholera, the consolidation of rural schools and social community centers all come in for general discussion. Men who have been elevated to the highest office in the state are no longer contenting themselves with talking glibly of the tariff, the trusts and various national issues, but are getting down to practical details of the state problems. It is an encouraging sign, from which we may take hope for the dawning of a brighter day in the agricultural sections.

Of all the recently inaugurated governors none were so emphatic in their declaration of interest in the farmer's welfare, or so specific in their program for farm betterment, as Governor Clarke, of Iowa. And of all the good things recommended in Governor Clarke's inaugural address none is so alluring or so full of possibilities as the new rural school which he pictures. Governor Clarke was born on a farm, he was educated at a country school. He knows how rural conditions of yesterday compare with those of today. And yet, while Iowa farmers are living in houses vastly superior to those in which they lived forty years ago, while they are lighting these houses with gas or electricity in place of kerosene lamps and candles, still the old schoolhouse survives, a remnant of the "tallow dip" days of the frontier. The district school of forty years ago, with its attendance of forty pupils, has declined to the school of ten children and even fewer today. Gone are the enthusiasm of numbers, the inspiration of companionship. Prosperity in the homes and the barns has not brought prosperity in the schools, and it is high time something was being done. Governor Clarke makes this excellent suggestion in his inaugural address:

The consolidated school with its work in all the grades, it seems to me, could be maintained at a less expense than the nine schools of the townships as now organized. In place of the little cheerless schoolhouses, poorly equipped, with no modern conveniences, have one three to five-room building centrally located, with an up-to-date system of heating, lighting, ventilating and water supply. Here there could be some inspiration for both teacher and pupil. Here would be the stimulus, excitement and interest that come from numbers. Here would come relief from the monotony and loneliness of the teacher with her half dozen little children by the daily association with other teachers. Here could daily come the refining influence of music and song. Here would come the daily supervision, management and inspection by the principal of the school. The grounds should include three or four acres for reasons that your mind will readily suggest. The school building could easily become the social and intellectual center of the community. Here could be public gatherings, lectures and entertainments of all kinds. No one would be far from it in this day of the automobile and in the era of good roads upon which we fervently hope we are entering. Away from the diversions of the town it would be an ideal place to lay the foundation of sturdy character, intellectual and physical strength and useful citizenship in the young men and women of Iowa. In this direction the consensus of opinion of the competent men and women who have given the subject earnest and sympathetic study, lies the solution to a considerable degree of both the country school and rural life problem. This cannot be brought about by compulsion. I fully realize that. I wish, however, that a plan could be devised by which any township could voluntarily consolidate her schools and that such plan could be enacted into law at this session. If the township as a unit be thought to be too large, then a smaller territory might be taken as a basis, but it seems to me the township is not too large. Of course regard should be had for the course of rivers and streams through townships.

We have had prepared for us an article by the county superintendent of an Iowa county in which the consolidated school experiment has been tried out most successfully. The article should be an inspiration to others. Its publication in these columns this week should be a clarion call for other counties to get busy. Nothing so much stands in need of practicalizing, or revolutionizing, as the public school system. The start must be made in the district schools in the country. The sooner the start is made the quicker will the good results be forthcoming. We urge upon all our readers a careful study of Governor Clarke's suggestion and an even more careful study of the consolidated school idea, in which the greatest hopes now seem to rest.

A YEAR OF GOOD READING.

These long winter evenings are admirable for the enjoyment of our exceptionally attractive Red Letter Subscription Offer. Not a member of any farm-household but can find plenty of good, entertaining reading matter with which to while away the hours. The combination consists of The Iowa Homestead, Kimball's Dairy Farmer, The Woman's World, Kansas City Weekly Star and People's Popular Monthly. These five papers may be secured from us at practically one-half the regular price and will make the whole year full of the best, most practical and entertaining reading matter possible to procure. Do not delay, but take advantage of the offer at once. Remit $1.25 to The Iowa Homestead, Des Moines, Iowa, and the five papers will be sent to you one entire year. Write your letter at once; the offer is an exceptionally good one.

VALUE OF EXERCISE TO BREEDING STOCK.

Too much emphasis cannot be placed on the importance of exercise for breeding stock. We have little trouble as a rule with cattle in this respect in the corn belt as most of them are raised under what might be called field conditions. The same is more or less true with brood mares, but when it comes to hogs and our poultry the wisdom of the average man's policy might well be questioned. A Missouri subscriber expresses his views on the subject in the following communication:

But little, if anything, need be said concerning this subject, to the observing successful breeder. However, the young farmer not accustomed to doing everything may appreciate a hint along the line of the great value of exercise to breeding stock.

Poultry fanciers realize that the eggs of birds which do not exercise plentifully will hatch poorly, if at all. After the fowl hatches it is weak and likely dies in a few days. To raise poultry successfully it has been learned that both male and female must have a "lot" of exercise.

Successful swine breeders have learned that to have good, strong, healthy pigs at birth the male should have plenty of exercise so as to keep him vigorous, and the sow should be compelled to rustle enough to keep her vigorous, even if this exercise is compulsory. Sows fed too heavily become fat, and "satisfied," and a "satisfied" sow is not a good brood sow. She should be fed just enough to keep her vigorous, but not enough to cause her to "cease her wanderings." Failure follows the fat, lazy sow, and no success can be derived from her as a brood sow. Many there are who remember the weak pigs of early March and April farrow of last spring. This was almost entirely due to the very heavy snow that lay on the ground for weeks and prevented the sows from taking the necessary exercise. Constipation is another evil which deranges the system of brood sows. This, too, is greatly overcome by sufficient exercise.

Insufficient exercise in the stallion, as well as the brood mare, is the cause of weak foals and scarcity of foals in the corn belt. The stallion should have regular exercise and breeders should refuse to breed mares to a stallion that the manager fails to give his daily exercise. On the range where the male and female run at large the foals secured are almost 40 per cent higher than in the corn belt where the stallion is kept in a small, highly fenced lot.

This condition is partially due to the grass feed on the range, no doubt. But exercise is a potent part of the success on the range, nevertheless.

We would like to place special emphasis on the importance of exercise as it pertains to brood sows. If the average sow is fed sufficient good food to keep her in fair condition of flesh, she is inclined to get lazy and for that reason she will not of her own accord take sufficient exercise. We urge all our readers who are raising swine to make it a point from this time until farrowing date to turn the brood sows away from their sleeping quarters during several hours each day. This will make the difference in most cases between success and failure. Weak pigs always result when a sow is allowed to move at will during the gestation period, while we have never known an instance where weak pigs were farrowed when the sows were compelled to rustle for their living.

ECONOMICAL FEED FOR BEEF COWS.

The Iowa Experiment Station has for many years been using ensilage extensively for all classes of live stock, especially good results having been obtained in the use of ensilage and hay alone as a ration for beef cows during the winter. In a recent bulletin on the subject it is pointed out that the feeding of the breeding herd of beef cows during the winter months must be governed by the condition of the cows at the time of going into winter quarters. If the cows are dry at the beginning of the winter they must necessarily be fed somewhat differently than if nursing calves.

Assuming that the cows are in thrifty condition after the calves are weaned in the late fall, and that they are to drop calves again in the early spring, the feed should be such as to keep them gaining until this time. For cows in such condition corn silage may make up the greater part of the ration and will be found to be one of the best feeds available. It should be supplemented with such other roughages as alfalfa or clover hay and corn stover or oats straw. For the dry cows a ration of thirty to thirty-five pounds of corn silage, five to eight pounds of clover or alfalfa hay, together with what corn stover or oat straw they will eat, will prove very satisfactory. Such a ration should keep the cows gaining at the rate of more than one pound per day.

If the cows are nursing fall-born calves, silage will so stimulate the milk flow that larger and more thrifty calves will be the result in the spring. Some concentrated feed should now be fed in conjunction with the silage. Cottonseed meal, one and one-half to two pounds per day for each 1,000 pounds live weight, together with the silage and other roughage, makes a very satisfactory ration. Oats (at the present prices) can well be used in the ration. By the liberal use of silage the cost of wintering the breeding herd of beef cows can be cut down nearly one-third; also the cows will come through the winter in better condition.

SELLING CORN FOR LESS THAN IT IS WORTH.

The following communication is from Rex Beresford, superintendent of the work of the Iowa Beef Producers' Association:

Three weeks ago in a little town of 700 inhabitants in west central Iowa I counted eighty-four teams in town at one time with corn for the elevators. I was told that in the neighboring town of 1,500 people 120 farmers had unhitched their teams the night before and left their loads of corn standing in the street over night because the elevator machinery had broken down and could not unload the wagons. The elevators were paying thirty-five cents a bushel or about $17.50 a load.

Corn marketed as live stock at that time, whether as beef, pork, mutton or dairy products, would have brought from 75c to $1 a bushel. There are uncertainties in steer feeding when feeders are as high as they are now and there is so little margin or prospective margin between cost of feeders and prices of finished cattle. There is mighty little uncertainty, however, in a sixteen to twenty-month-old steer grown and fattened on the farm that produced the steer and the corn. Such a steer would have paid and is paying on the few farms where he may be found, from eighty cents to $1 a bushel for the corn that is being fed to him. There is no hauling to market, either; no waits to unload at the elevator or extra man to keep to haul off the crops.

Another thing: At present market prices for fertilizing materials such as are being bought for many eastern farms, and some not so very far east, either, a dollar's worth of thirty-five-cent corn contains about forty-two cents' worth of fertility. A dollar's worth of beef selling at $8.50 a hundredweight contains about five cents' worth of fertility. From the standpoint both of bigger profits and of keeping up the productive power of our farms we need to feed our crops into live stock of some sort and put the manure back on the land.

Steer feeding may be risky. There is mighty little risk, though, in growing and fattening calves produced on the farm. At present prices for feeds there is and is likely to be for a long time to come a good profit in keeping beef cows, raising their calves and feeding them out at as early an age as possible.

Yet in one of the towns mentioned, where corn was being marketed so rapidly, two car loads of good red cows, capable of producing first-class beef calves if bred to a bull of the right beef type, were standing in the yards waiting to be loaded out for Chicago for beef. Their owner was attracted by the comparatively high prices for butcher stuff, and his neighbors could not see that the cows could not possibly be worth for beef what they were worth to stay on their farms and produce more beef for future good prices. Some men are waking up to the fact that there will be money in good cows from now on. A lot of others will be wishing during the next three or four years that they had picked up some of the cows now going to market at a time when they could be bought for market prices.

These are facts to be pondered over by the man who is hauling his fertility to the elevator in the form of corn. One statement made by Mr. Beresford should be burned into the heart and conscience of every farmer in the central West, namely, that every dollar received for corn that sells at thirty-five cents a bushel must be discounted forty-two cents because that amount of fertility is taken away from the farm with the corn.

ANOTHER VIEW ON SWEET CLOVER.

A subscriber from Polk county, Mo., gives his views on the economic value of sweet clover in the following communication:

A neighbor disgustedly threw down the farm paper he had been reading, with the exclamation, "Some of these writers are the biggest liars unhung! Here one of them says that sweet clover is a valuable forage and pasture plant. Now, I know that's a fake, for there is some all about the old quarry at the back of my pasture, and nothing will touch it, not even the sheep."

Now, the Psalmist said, "All men are liars," but I also believe that there is some truth in most of them. I do not exactly agree with my neighbor, yet the facts bear him out in the statement that his stock would not touch sweet clover. When I read half a dozen articles from as many farmers throughout the country, some holding that sweet clover was a valuable crop, while others condemned it as a noxious weed, I concluded that there must be two ways of looking at the proposition, and that the viewpoints were diametrically opposite.

I went to work with the purpose of finding who was right, and I find that both sides had some grounds for their views. In this part of the country sweet clover is universally considered worthless except as bee pasture. This is because it has never been handled in a manner to produce satisfactory results. Where red clover or alfalfa can be grown, there is no necessity for growing sweet clover, since it is inferior to either as forage or pasture; but in localities or on land where the other clovers cannot be successfully grown, it can be made a very profitable crop.

That there is a place in the economy of farming for sweet clover goes without saying. It is a valuable plant for the enrichment of the soil, is a tolerable pasture plant, and for hay is surpassed only by the more desirable red clover and alfalfa. If it is to be used for pasture, stock are to be kept on it from the time it starts in spring, so that the clover is kept down and not allowed to become woody. For hay it is cut before the bloom buds appear, two or three cuttings made each year. Like some other feed, stock will not like it till they become accustomed to the slightly bitter taste, after which they eat it readily with gratifying results. In order to induce stock to eat it at first, salt thrown over the hay as it is stacked or put in the mow will add to its palatability.

The regular sweet clover with white blossoms is a biennial like red clover, and the seed should be sown in the spring. If it is desired to eradicate sweet clover it may be done by not allowing it to seed for two years. There is another kind that is called sweet clover, and which is smaller and more palatable to stock than the regular variety. This has a yellow flower, and is an annual. In preparing ground for sweet clover it is possible to make it too loose. A hard, clean seed bed like clean corn stubble that has been harrowed, but not plowed, is more likely to give a good stand of sweet clover than if prepared as for grain or red clover. Since many of the seeds are unusually hard, and will not germinate the first year, it is well to sow fifteen to twenty pounds to the acre.

There will not be much growth the first season; possibly a late cutting or pasture. However, the weeds should be mowed and the clover not allowed to grow higher than six inches. If pastured the second year there will likely be enough plants that seed to reseed the land, but if cut for hay, the last crop should be allowed to seed, then mowed just before frost.

The hay from sweet clover is harder to cure than either red clover or alfalfa. It is best to cut in the afternoon and allow it to lie all the next day, then rake and put in shocks early in the morning while damp. All the handling should be done in the morning so that the leaves will not shatter. The stalk contains a great amount of moisture which must be dried out before the hay is put in the stack.

While this subscriber is of the opinion that red clover and alfalfa are superior to sweet clover and while we believe that the great majority of the farmers of the corn belt will support this contention, yet it is true that men can be found who regard sweet clover as superior to either of the other legumes. While we are willing to concede that under certain conditions sweet clover has proven to be a profitable crop yet we hesitate to recommend it to any man who can grow the other legumes luxuriantly. The individual who has hard sledding in getting a stand of alfalfa or red clover can well afford to give this roadside legume a reasonable trial.

ASTONISHING RESULTS IN SEED TESTING.

While much has already been said in regard to the importance of seed testing, yet the average man has not yet awakened to the fact that there is a very great difference between knowledge of seed that is acquired by testing and such knowledge as is the result of guesswork.

This is borne out by the results obtained at a recent state corn and small grain show. After thumbing over thousands of ears at this show judges unanimously decided on a particular ear and placed thereon the purple grand championship ribbon. A little later six kernels from this ear were tested with the result that they were all so weak that they were barely able to sprout. The tap and blade sprouts were dark in color at the ends and there were very few roots.

In the same show in the exhibit of wheat two lots placed well up in the premium list gave a germination test of 90 and 40 per cent respectively. The grand champion sweepstakes bushel of oats in this show tested 78 per cent while some of the winning clover germinated 58 per cent. In the case of the oats the presumption is that they were milled too closely. One sample of clover that presented a fine appearance tested 31 per cent.

This paper is in possession of the results of much of the testing done at this show and we have only given a few examples to indicate to our readers that emphasis in some instances is not being placed where it properly belongs in these contests. When men who have had sufficient experience in judging grain as to justify their selection as judges in these contests, when these men fall down in determining the germination quality of grain by its apearance, what can be said of the average man who has made no special scientific study of the subject?

We assert that the conclusion must be reached that in a matter of this kind guesswork leads us into too many serious blunders. We hope that our readers will not "cool off" in this testing proposition because no man can afford to go blindly in such an important matter.

TREATING OATS FOR SMUT.

An Iowa subscriber, Mr. P. B. Olmstead, asks for information in regard to treating oats for smut. He has had no experience in this matter and wishes, therefore, to obtain detailed instruction.

The formalin method is the one that we recommend most highly. In treating oats according to this plan simply spread them out on a tight floor and thoroughly wet them with a mixture composed of one pound of formalin to forty gallons of water. Formalin is a colorless liquid and possesses powerful disinfecting qualities.

Thoroughly stir the oats with a scoop shovel until they are sufficiently wet so that the water sweeps away on the sides. After that they should be shoveled into a steep pile and covered with sacks or horse blankets for two or three hours. After that length of time the grain is ready to be spread out. It should be shoveled over frequently in order to hasten drying.

We have found it a good plan to begin operations early in the morning and it goes without saying that grain should not be treated in freezing weather. By getting started early an opportunity is afforded to thoroughly dry out the grain the same day that it is treated. We would not advise sacking it up that evening, however, but if it is stirred from time to time and spread out to a thickness of six or eight inches on the floor it will be dry beyond the danger point in ten or twelve hours. In all probability the grain can be sacked up the second day without any danger of having it spoil.

In some instances men have treated it in the forenoon and sowed the grain in the afternoon. The chief objection to this plan is that wet grain does not work so well either in the drill or broadcast seeder and for that reason we prefer to dry it out before attempting to sow it.

ROADS RAISE PRICES.

A contrasting picture of the effect of good roads upon farm prices is painted by a daily newspaper of the grain belt in this manner:

A good farm on a bad road. Nice house. Modern improvements. Fine team. High fertility. Seven miles from town. Owner wants to sell. Advertises. Buyer comes. Has plenty of cash, seeking good farm, pleasantly located. Roads fierce. Conversation hinges on highway. Buyer wants good road to town. Boy in school. Likes to go in to plays, lectures, church. Couldn't offer over $100 an acre and doesn't think he wants the farm at all. No sale.

Same thing, similar farm, similar circumstances, except good, permanent road, good every day in the year. Owner thinking of selling. Same man with cash in hand looking for farm. Conversation hinges on price. Offers $150. Owner can't see it. Keeps edging up $5 at a time. Sale closed at $200 per acre. Everybody happy.

Not the least important phase of the whole highway agitation is the effect of good roads not only upon farm comforts and contentment, but upon farm prices. A Missouri farm which had never been priced above $75 an acre, before the construction of good roads, sold within a few months after their construction for $112.50 an acre, the owner admitting the advance in value was due solely to the new highway. Such incidents are far from rare. The amount asked for road improvement is large enough at times to stagger us, but there are proofs a-plenty that the returns are not long in coming and that the problem is so large as to call for an expenditure and a policy in keeping.

FARM TRACTORS INCREASING IN POPULARITY.

There are thousands of farm tractors in the corn belt and gasoline engines could be counted by the hundreds of thousands. We are informed from a reliable source that a single company will manufacture 100,000 gasoline engines during the next twelve months and a selling force sufficient to dispose of this number will be placed in the field. These facts are sufficient to indicate to our mind that the question of farm power is after all one of the most important that the farmer is obliged to consider. Tractors are now being placed on the market that are suitable for operation on quarter and half-section farms and the day is rapidly approaching when the horse will be liberated from our heaviest form of farm labor.

At this time we would like to make an appeal to those of our readers who have had experience in handling farm tractors. We would like to have them submit to us the results of their experience and to give such instruction and such specific directions in the care and management and operation of these tractors as will aid those who will use these machines for the first time during the coming year. This paper has always emphasized the value of experience as it comes from the practical man and while we do not desire to discount the knowledge or ability of the scientist, yet the practical man is always a little more direct when he gives advice. We are willing to pay suitable cash premiums for such articles as we can use and those who contribute will be appropriately recompensed.

The record price of $8.50 per hundred pounds was made on feeding cattle at the Western National Live Stock Show held in Denver last week. This was realized on two car loads of Short-horn steers averaging about 1,100 pounds, the price being paid by an Iowa breeder, Mr. M. G. Beers. The $8 mark was reached at the same show last year, but that record has gone glimmering. This high price means nine-cent cattle when they are in the feed yard. It is hoped that these steers will give a good account of themselves when they gain access to good Iowa corn and clover hay.

Your attention is directed to "A Year of Good Reading" on page 4.

HACKNEY AUTO PLOW

EVERY farmer realizes the importance of "quick action" at seeding time and knows that delays at that particular time are very costly. The whole crop may be ruined through not being able to secure help or the sickness of or an accident to the horses.

The Hackney Auto Plow solves all such problems satisfactorily. It will not only do the Seeding when the soil is in the best condition, but also the

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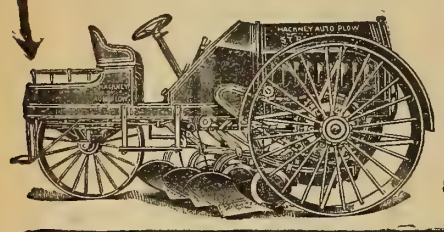

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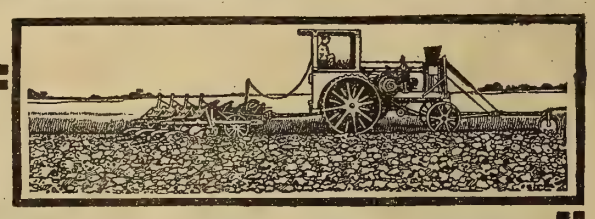

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Think of riding over your fields on an Avery "Self-Guide" Tractor that automatically follows the furrow **without your touching the steering wheel.** Just sit on the seat and watch it run. Think of pulling a cord at the ends of the furrows and the plows raising and lowering **by power taken from the plow wheels. Just think how easy work plowing would be with this Avery "Self-Guide" Tractor and "Self-Lift" Plow.**

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Avery Tractors make Power Farming a success on **small, medium or large farms.** The 12-25 H. P. plows 10 to 12 acres per day and just fits the small size farm—the 20-35 H. P. plows 15 to 18 acres per day and is just right for a medium size farm—the 40-80 H. P. plows 25 to 30 acres per day and is built for big farms.

Because Avery Tractors are **"Light-weight"** they will work on any ground in condition to be worked with horses. The 12-25 H. P. weighs less than 7,500 pounds, the 20-35 H. P. less than 11,500 pounds, and the 40-80 H. P. only 20,000 pounds. Also the **simplest** tractors built. Burns gasoline or kerosene.

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Avery "Light-Weight" Tractors and "Self-Lift" Plows are **Sold on Approval** and **Fully Guaranteed. At low prices**—only $1,200 for 12-25 H. P. Tractor, $2,000 for 20-35 H. P., $2.650 for 40-80 H. P. Backed up by a large and reliable company.

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Write—Get Power Farming Facts Write at once for new 1913 Avery Tractor and Plow catalog, with Free Power Farming Facts and full information about Avery Tractors and Plows and the Avery Mutual Benefit Selling Plan. Address

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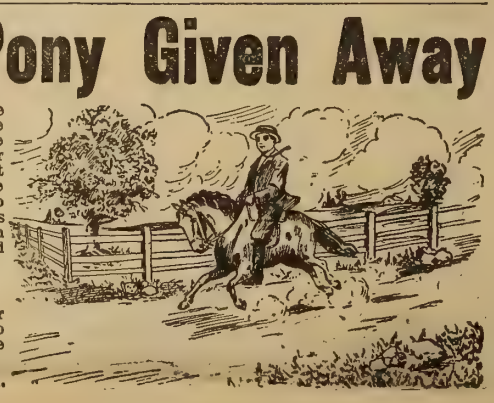
Also manufacturers of Avery Undermounted Steam Traction Engines, "Yellow-Fellow" Grain Threshers and Gasoline Farm Trucks.

Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.



1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 606 Popular Bldg, Des Moines, Ia.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Keeping the sifting winds off the pigs in their nests is shutting the profits inside the hog house.

Zero weather may be exactly to our liking in every way, but we must not forget that it is bully for the ice crop.

Fix up a neat box house on a pole for the martins to nest in this summer. They are the cheeriest lot of chatterers one can have about the farm and are a world of company, especially to the women. Then they chase the hawks and crows away and are death and destruction to thousands of bugs and insects that otherwise would prey on the orchard fruits and garden products. Building smaller boxes for the bluebirds and one for the wrens will also be a little time profitably spent.

Doing business on credit is all right to a certain extent, but it is well to remember that the less anyone's credit is used the better it is.

Pay particular attention to the calves from now on. Often they are crowded out of their shelter by the older stock, unless one makes sure that they are in snug, comfortable quarters, where the larger stock cannot reach them. Then we cannot expect the little fellows to do well on the same rations we give the grown stock. A little bran, oats and corn-chop (equal parts), some clean, tender roughage (clover or alfalfa is best), and plenty of pure water at the temperature it comes from the well—all these are pressing essentials that cost little, but count for much in the growth and development of the calves.

If mice can get to the stacker rope the chances are you will have to buy a new one before you begin haying.

The manure spreader is a labor saver, all right, but this is not its only good point. It is the greater acreage that can be covered with a given amount of manure that counts. When manure is to be spread on meadow land or in the pasture the spreader is so far ahead of the fork that no comparison can be made.

The telephones and rural free delivery of mail have helped make farm life more pleasant. Now it looks as though the electric storage battery is going to make it so that it will take an expert to explain what is meant by "the conveniencies of city life."

Dry forest leaves form an excellent article for putting in the poultry scratching shed, and make a fine fertilizer for the fields after being used.

Up to the present there have been few days that the cows could not enjoy a couple of hours out of doors. It is best, though, to allow them to be the judges of the length of time they shall stay out. When they come to the door they should be allowed to walk right in and should find a feed awaiting them. When this is the rule it is very seldom that they will stay out longer than what is good for them.

Colts and milk cows should not be turned into the same yard at the same time, especially in the winter time, because what is play to the colts is torture to the cows and a cow that is to do her best must know as little as possible of even the mildest form of torture.

Poultry netting stretched across the windows in the hen house will protect the panes and let in more light than any other protection in common use.

It is unreasonable to expect that every man who builds a silo will make a success of it because if they do every one of them would have to be "on the job" every day in the week. The silo, like many other good things, is not a money maker in itself. It all depends on "the man behind."

Small leaks on the farm are what combine to cut the great gaps in the profits.

One man can often raise a bushel of corn cheaper than another or produce a pound of pork or beef cheaper. The cheaper stuff can be produced the greater the profit, but it costs something, these days, to equip to produce economically.

Renters are now indulging in their usual scramble for the coming year's location. The more desirable farms have already been rented, but there is competition, this year, for those less desirable.

I once helped to shell 700 bushels of corn with a hand sheller. That was before a power sheller was owned in the neighborhood, and a long time before inventive man fixed it so a small gasoline motor could be made to take the place of elbow grease in propeling a small sheller.

When the cattle shiver after drinking it is a sure sign that there is something wrong with the management. It will take some good feed to stop the shivering that might just as well be turned into beef or butter.

Our ice harvest is on in full blast and in spite of rather unfavorable weather it is a bumper crop both in quality and quantity, but those who want a supply for next summer must get busy right away.

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For a Dollar's Worth of Lucas Carriage Gloss Paint

A buggy is only as old as it looks. Your buggy will look **new,** if you treat it with a coat or two of Lucas Carriage Gloss. Gives a high gloss. Dries quickly. Applied one day and vehicle used the next. Lasts a long time.

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tells just the things you need to know about paint to enable you to select the right kind. It also tells what paint, varnish or enamel to get—what kind of brush to use, how many coats to give, how long to let dry, etc., if you want to refinish furniture, beds, walls, floors, implements, vehicles, etc. This book is worth many dollars to you. We send it free upon receipt of your name and address and that of your nearest dealer.

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The swinging joint allows the horizontal wires to swing up or down with the roll of the land—yet the upright wires are always straight. That's why Apex fence is the easiest to put up, and why it keeps up straight after others are lopped over. Apex is even and smooth on hill, hollow or level. Never strains or buckles.

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Apex Fence is made of purest Open Hearth Steel, tough, springy, elastic. It is galvanized by a process which makes the zinc a part of the wire itself—it can't chip, flake or crack.

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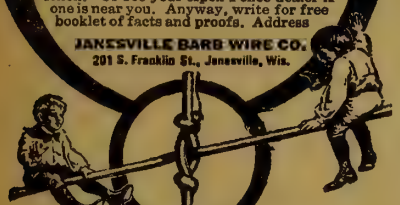

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Stockmen Sketches

ONE of the hopeful features of our times is shown in the tendency of our families to follow in certain lines of business endeavor. It is not a matter for wonder then that R. O. Miller, the subject of this sketch, should just naturally take up the raising of fine stock. His father, a native of Ireland, had been a lover of fine stock and was a pioneer in the introduction and breeding of Percherons in the late sixties or early seventies. For more than half a century the home farm of R. O. Miller, in Lucas county, Iowa, has been a fountain head from which came great numbers of Percheron and Clydesdale horses, Oxford Down sheep and Short-horn cattle, that were widely distributed over the entire stock-raising country. These have exerted a beneficial influence because it has ever been the Miller theory that only high class breeding animals should be sent out.

R. O. MILLER.

Mr. Miller early took an interest in and liking for Short-horn cattle, and his first venture in that line was the purchase of a car load of cows of the Marigold, Clara and Augusta families direct from the now famous Marr and Bruce herds. The excellence of his judgment in this purchase was later vindicated by the universal demand for cattle of Marr and Bruce production.

In all his farm operations Mr. Miller has been governed by those practical reasons that are common alike to the farmer and the breeder who attain to success in their lines. Cattle and horses are kept under natural conditions which bring them to their highest development in the most economical manner. This means in reality usefulness in the greatest degree, profit to the producer and satisfactory service to the purchaser.

Breeding establishments like that of R. O. Miller are an important element in agricultural advancement because they follow conservative lines and may always be depended upon. They are not in the dollar-chaser class nor do they worship at the shrine of fadism. Following after high ideals himself, Mr. Miller, more than he is conscious of, is an inspiration to those of his neighbors and associates who are bent on adopting improved methods in their farming operations.

INCUBATOR SEED TESTER.

To the Editor of The Homestead:

It is important at times to test seed before planting, and it is difficult to keep the tester warm in an ordinary room. Nearly every farmer has an incubator, and proper heat for germinating seeds can easily be maintained. If the incubator is not yet in use, make a false tray of light wood. Put in an inch or two of cotton, old felt or other absorbent. Cover with heavy cloth, an old blanket being ideal. Place seed on this in numbered squares, and cover with another cloth, the heavier the better. Wet it thoroughly, place in incubator, run heat up to 85 degrees and set regulator at about that temperature. Ten degrees more or less will not matter. They will have an even, high temperature, germinating in shortest time possible, giving every seed equal test.

If incubator is in use at time for making an early hatch use large plates or platters, which may be prepared in a similar way and placed under egg tray in chick nursery, and will not interfer with hatch. Heat will be rather high, but will not injure seed in any way. They will have to be watered as the cloth covering becomes dry. H. F. Grinstead.

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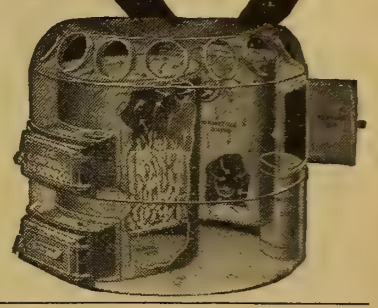

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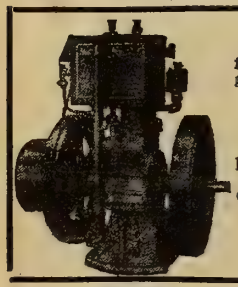

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CURRENT EVENTS

AFTER a long and hard fight, of many years standing, home rule for Ireland is imminent, the house of commons having passed the bill a few days ago by a majority of 110. It was immediately sent to the house of lords, where it went through its first reading with the prospects good of the Asquith government securing its passage within the next few weeks. In the meantime, however, conditions in the northern part of Ireland, and particularly in Ulster, are so serious that opponents of home rule are openly declaring if parliament passes the bill there can be but one result, to precipitate a bloody and costly civil war. The trouble is caused by the fact that the Catholics predominate in the greater part of Ireland, but in Ulster the Protestants predominate. The Ulster men declare that they will refuse to be governed by the Catholics, to whom, because of their predominance, will be given all of the important government positions. The affair thus resolves itself into a church struggle which for intensity and probable tragedy of results has not been surpassed in a long time. Already there has been rioting in Belfast and the police have frequently been called out to disperse mobs which have gathered both in support of and antagonistic to the bill. Whether this show of force in Ulster will prevent the house of lords from following the house of commons in passing the bill has not yet developed, but home rule is nearer than it has ever been before. The bill provides a separate parliament for Ireland, with power to pass practically any measure, subject only to the approval of the crown.

JUST as a resumption of war seemed inevitable, Turkey acceded to the suggestion of the big powers of Europe (England, France, Germany, Italy, Russia and Austria) and decided to grant to the Balkan allies the demanded surrender of the fortress of Adrianople, leaving the fate of the Aegean islands to be settled later by the powers. This will probably avert a continuation of the war, for which Bulgaria and the other Balkan states were rapidly preparing when Turkey gave in at the last moment. There is a general feeling that if the Mohammedan and all that he represents, in contrast with Christianity, is ever to be driven from his European stronghold it must be done now and that to surrender or make any concessions would be a fatal mistake. The peace plans now contemplate allowing the sultan to retain the city of Constantinople and a little strip of surrounding country, but aside from that his last European territory will be taken from him and divided among the Balkan states. The crescent has ruled all too long in the southern part of Europe, but went down before the vigorous onslaught of the cross, upheld by the Bulgars, Montenegrins, Servians and Greeks. The war was one of the shortest and most decisive in history.

WOODROW WILSON will remain in service as governor of New Jersey until March 3d, when he will resign to be succeeded by the democratic lieutenant governor, who is pledged to carry out his progressive policies. Governor Wilson will go to Washington the night he resigns and the following day will be sworn in as president of the United States. His early proposal to postpone the inauguration ceremonies until late in April has not been accepted, because of the conflict with the plans of the inaugural committee. At his request, however, the regular inaugural ball has been entirely dispensed with. The president-elect's main objection was that the ball was not only expensive, the cost running far beyond $100,000, but that it necessitated taking the pension building and throwing the clerks out of the regular work for some days. The regular inaugural parade will be held, with General Leonard Wood, chief of staff of the regular army, as marshal. In the closing days of his service at Trenton, Governor Wilson is securing the introduction of a number of reform measures calling for the extensive revision of the corporation laws and otherwise putting into effect his progressive ideas.

JUNE 30th is the day set for the demise of the court of commerce, created by the Wickersham bill. Had it not been for the necessity of time in which to close up the affairs of the court, the demise would have occurred on March 4th, but congress allowed the intervening weeks for the completion of unfinished business. The court has been in existence only the last three years, but in this short length of time it has proved its utter uselessness and inefficiency, having served only to reverse numerous findings of the Interstate Commerce Commission and to give to the railroads rights and powers denied them by the commission. The impeachment of Judge Archbald went far toward making the early death of the court certain, although its days had been numbered prior to that, owing to the disclosures that it was standing between the shippers and justice.

FREE meat is proposed by the democratic ways and means committee of the lower house of congress, several days during the past week having been devoted to a discussion of the removal of the existing duties on all necessities of life, including meat, sugar and lumber. Members of the committee emphasized the majority sentiment in favor of free meats and a strong demand toward free cattle. Protest against putting cattle and meat upon the free list was voiced by S. H. Cowan, Fort Worth, Texas, spokesman for the cattle industry west of the Mississippi. Mr. Cowan declared that if such a plan were adopted it would mean a flood of cheaper meats from South America, resulting in ruin to the industry not alone in Texas, but in the other breeding and feeding states. Definite action will not be taken until the extraordinary session of congress which convenes about the middle of March. In the meantime the matter will be carefully gone into by the ways and means committee and an opportunity will be given to interested parties to express their opinions both for and against the reduction of the existing tariff. It is expected that the cattle men will make a strong showing, inasmuch as they feel that the life of their industry is at stake.

SENATOR ELIHU ROOT, of New York, secretary of state in the cabinet of President Roosevelt, delivered an emphatic speech in the senate denouncing the bill which excludes American coastwise vessels from paying tolls through the Panama Canal. He declared that were the United States to exclude these vessels it would stand before the world not as an advocate of justice and a square deal, but as an advocate of

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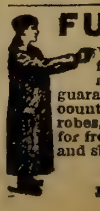

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special privilege. Senator Root is leading the fight in the senate to rescind the former action excluding these vessels, largely because of the protest filed by Great Britain on the ground that the exclusion violates the Hay-Pauncefote treaty which guaranteed equal treatment to the vessels of all nations. It is considered highly probable that rather than have the controversy go to an international court of arbitration the senate will annul the existing measure and put all vessels on an equal footing.

SUCCESS WITH CONSOLIDATED SCHOOLS.

(Continued from page 8.)

be opened up before the railroads. I have met people who seem to think the blockading of roads a strong argument against consolidation, but I have never had it suggested that the railroads should be abandoned on the same account, and yet the argument would hold good in the one case as well as in the other. In time of muddy roads it is often necessary to hitch two teams to a wagon, but when it is necessary it is done. Much of the success of the system of transportation is due to the spirit of the drivers and their determination to get their loads through. Where there is a will there is a way and I have known it to happen that the school buses would run on a day when the mail carriers would not undertake to drive their routes. It is this spirit of pride in their school that pervades the whole community that makes the school a success. But it might be well to say right here that this enthusiasm did not come in advance of the establishment of the district and when consolidation was proposed it was not accomplished without opposition. The same divided opinion as to merits and demerits of the system prevailed here that has prevailed in almost every community where consolidation has been proposed. If the establishment of this school had never done another thing than to unite the people of the town and country in a community with one common interest and dispel all that feeling of jealousy and suspicion that so often prevails between town and country, it would have been worth every dollar it has ever cost. But it has done more than this, it has led the people to believe that they can do things for themselves. It has developed a co-operative spirit and given our people that confidence that leads to success in a united effort, until today they have their farm elevators, lumber yard and trading companies. It has brought about better road conditions and no better roads are to be found in Buena Vista county than are found in Poland township where this school is located.

In addition to all this, the children of this community are given the opportunity of securing a high school education that is second to none in the state. At an educational meeting recently held in Marathon the girls of the class in domestic science served a banquet of several courses to the members of the Better Iowa Schools Commission that would have been a credit to any French cook and as one visitor remarked: "I have paid $5 per plate for no better."

What is true of the school at Marathon as to improvement in educational opportunities is true of the other two schools in Buena Vista county, the only difference being in the extent of development. If these schools fail to reach the high standard of the Marathon school it will be the fault of the community and not that of the system. Already the school at Newell is beginning to crowd the school at Marathon for distinction in certain particulars and it is but a matter of time before Marathon will be compelled to look to her laurels.

Not too much can be said in support of the system and if the bill prepared by the Better Iowa Schools Commission and presented to the state legislature giving state aid to this class of schools becomes a law, as it should, the next two years should bring great changes in our rural school conditions.

ISAAC FUNK IN HALL OF FAME.

Isaac Funk, pioneer of McLean county, Ill., was honored by being admitted to the Illinois Farmers' Hall of Fame at the University of Illinois College of Agriculture last week.

Elizabeth Funk, his great granddaughter, unveiled his portrait this afternoon and it was presented to the university by Lafayette Funk, son of the honored man

Thomas C. Kerrick, of Bloomington, delivered an address on Funk as a farmer and legislator. It was announced that Philip D. Armour, famous packer, will next be honored. His name will be admitted in January, 1914. Thirty-five members of the Funk family were present.

"Isaac Funk's achievements in either of these great fields of human endeavor," said Mr. Kerrick, "would sufficiently entitle him to the highest mark or honor which is being given him here today. We are not making Isaac Funk famous today, but we are merely recording a judgment previously arrived at in the court of public opinion.

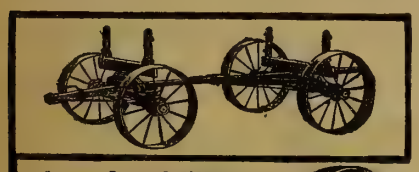
"Before coming to Illinois Isaac Funk learned to deal in live stock. Two years after building his cabin at Funk's Grove he wooed and wedded Cassandra Sharp, of Peoria, and brought her on horseback to his home. From this union dated Mr. Funk's remarkable career.

"He was a patriot of the loftiest type, a defender of liberty, civil and religious, a friend of education, and a liberal contributor. He hated human slavery and was heart and soul and purse for the preservation of the Union in the sixties.

"In 1840 the Whig party elected Mr. Funk to the lower house of the state legislature. In 1862 the republican party elected him to serve out the unexpired term of Dick Oglesby, and after that elected him to the full term in the state senate.

"It was in the latter term, when the arrogant opponents of the civil war, having cowed the weak-kneed believers in the Union, were about to let the Union be destroyed, that Funk made that speech which is remembered by more people who think patriotically than any speech made by any Illinoisan excepting only Lincoln and Oglesby. That speech, considering the need for it and how it satisfied that need, was one of the greatest of all speeches and in my judgment proves that great as was Isaac Funk as a farmer, he was even greater as a legislator.

"At his death Isaac Funk owned 25,000 acres of as good land as was ever owned by any man in a single compact tract. This land he earned. He made a market for stockmen where none existed before. Starting with nothing, he left a fortune, the present value of his estate being estimated at $6,000,000."



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These destructive plagues are **GERM DISEASES** and the only way to conquer and prevent them is to **"Kill the Germs."** That is exactly what B-K does. This wonderful new discovery has no known equal as a germ killer.

In laboratory tests, one drop of B-K placed in 5 tablespoonsful of water killed the Hog Cholera germ instantly. One drop in 6 tablespoonsful of water destroyed the Typhoid germ and so on throughout the entire list of contagious diseases.

10 times as Powerful as Carbolic Acid as a Germ Destroyer, but Non-poisonous to Human and Animal Life.

B-K Bacili-Kil

Destroys Germs and Prevents Disease. Purifies, Disinfects, Removes Odors. Indispensable on the Farm, in the Dairy and Home.

B-K is especially valuable to farmers and stock raisers because it destroys all forms of disease breeding germs, and quickly rids all farm animals of worms. Read the following letter. It is a sample of hundreds we have received.

We are surprised and gratified to be able to report so soon that our herd of about 275 hogs which were badly afflicted and dying with Swine Plague are completely recovered, through the use of your Bacili-Kil Sterilizing Method. We began treatment according to directions about three weeks ago All are now well, strong and on their feed and gaining back their flesh. K. J. Schultz, Supt. Tilden Farms, Delavan, Wis.

For cleaning up and purifying the stables, cattle and dairy for reducing bacterial count, purifying and removing foul odors from milk cans, cream separators, sinks, refrigerators, churns—also for garbage cans, swill barrels, drain pipes, water closets, outhouses etc., it is especially valuable.

Trial Bottle FREE

Just fill out the coupon at right and mail it to us at once Send no money. We will send you a free full bottle of B-K (Bacili-Kil) so you can see for yourself how it will make your farm PROOF against disease—how it will stop your losses—and PROTECT your home and family Fill out the coupon. Send it now,—lest you forget.

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G. P. Co., 501 Pioneer Bldg., Madison, Wis. (2)

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FILL OUT LIST OF STOCK CAREFULLY.

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Name.....

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The Car for Rough Roads

Bad roads have no terrors for the Detroiter. It is a car for every day in the year service. With NINE BIG FEATURES, ample power high clearance, and easy riding action it is the ideal light automobile for hard work—and lots of it.

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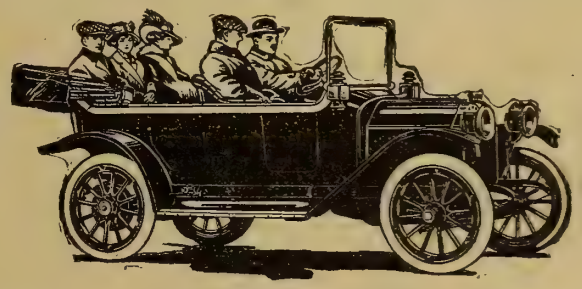

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2. Platform rear spring.
3. Multiple disc clutch.
4. Long stroke motor.
5. Enclosed valves on one side.
6. Extra capacity radiator.
7. Left hand drive, center control.
8. Extraordinary braking surface.
9. Ball bearing throughout.

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In direct proportion to the first cost of the Detroiter—the low after cost is also exceptional. The same nine exclusive features of construction which make this car distinctive in the low price field make it likewise a marvel of low upkeep.

The average mileage of the many Detroiter cars in actual service is from 20 to 25 miles per gallon of gasoline and 100 miles on a quart of lubricant.

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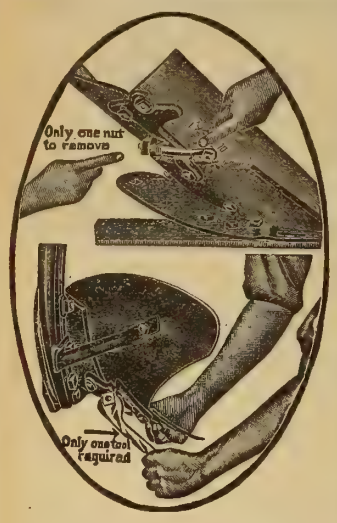

Remove One Nut and Share is Off

Off or on quick—that's the new feature. That's what you want. It's the biggest plow improvement in years.

When you see how it works you'll know the advantage of the

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SHARE

For New Deere Sulkies and Gangs

"Q-D"—means quick detachable Also quick attachable. You take the share off by removing one nut. Put it back and fasten it by replacing and tightening nut.

And this one nut is in a handy place—just glance at above picture. Could anything be easier? It "stays put" too. Locking lug on landside holds share perfectly tight and rigid.

Our book, mailed free, tells all about this new improvement in plows. Write for free "Q-D" Book No. Q-D-27

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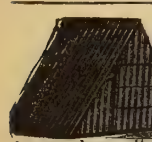

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A Word to the Stallion and Jack Men of Iowa.

By H. Osterhoudt, Boone County, Iowa.

IOWA horsemen have been discriminated against by all the laws which have been passed. I do not want to criticise the intent of the present stallion law, but will say they have made a bad mess of it.

In the first place when the assessor comes he can raise the assessment on recorded stallions and jacks to seven or eight times as much as on those not recorded. To encourage better breeding all stock that is kept for service and not for sale should be exempt from taxation. Then again if we want to ship a stallion or jack on the railroad we have to pay for 3,000 pounds, even though the jack may not weigh over 800 pounds, while a mare or gelding is shipped at a much lower rate. Then nearly all towns and cities have an ordinance prohibiting exhibiting a stallion on the streets and some prohibit keeping them altogether, which law I do not think would stand a test.

Even the blacksmith's union charges $6 for shoeing your stallion, and if you want his shoes reset the charge you $3, whereas they will shoe an unruly farm horse for $2, or reset his shoes for $1.

Then comes the stallion and jack law dealing with the question of soundness, which is very unfair to the stallion man, inasmuch as there have been no restrictions since Iowa has been a state. To say all at once that we shall have all sound stallions and allow the mares to go unsound is not reasonable on the face of it. Then again we have to get a college veterinary or the owner to examine the stallion or jack. This is not fair, as the owner may not be honest and the veterinary surgeon may be prejudiced or not competent to examine, or he may be drunk, as they frequently are. I do not say that they are all bad, but I will say from my observation that they are not up to the average standing in morals and truthfulness, and the horse doctor that has learned by practical experience is knocked out altogether. Then there is no limit as to what shall be charged for the examination, whether it shall be $1 or $50. I have had some experience with this examination and the board of agriculture, wherein I was treated very unfairly and had one horse condemned and was refused state examination which is my loss.

Now there is no one who would like to see improvements in horses more than I would, but under present conditions we will go back instead of ahead. I think the present stallion and jack law should be repealed altogether and work for a national law that all stock imported to this country should be examined for soundness as well as for contagious disease, and if they are not sound they should not be allowed to land. The importers should be the judges as to soundness of horses and if they are not competent they should go out of business. They buy to sell, and not to keep and stand. Most of the worst diseases come from Europe and do not belong to our native horse.

If we have to have this stallion law it should be amended so that when a horse or jack is condemned the state of Iowa should pay the owner what the animal is reasonably worth and make away with it and the state should elect three men to examine all the stallions and jacks in the state, and all three act together and the state pay all the expenses. In this way they would not be apt to show partiality to any one. As it now is some are marked blemished when they are not and others should be marked that are not marked.

I do not believe the state has legal right to confiscate property without paying an indemnity for the same. A man would be very foolish to buy a high-priced stallion as things now stand and take him out to show to a customer and have him jump and play and injure himself and then have him condemned and lose him. The law as it is will cause a cheaper grade of horses to be brought to this country and we will be going down instead of up. If the state wants to do something in the interest of horse breeding let them pass a law that we have a lien on the mare and colt until the service fee is paid and that we get half pay for all mares that get in foal and abort or lose their colts at foaling time. Then the mare will get better care and will bring better colts and will encourage the stallion and jack men to keep better stock.

I have been in the business for thirty years. Not that there is big money in it and I expect to get rich, but I have to make a living. I take a great deal of pride in good horses and mules. There is not one man in 400 that would take a stallion and care for it a whole year, so you see it is not so desirable a job that any one need get jealous and want to persecute by hampering us with law.

Now we have built up the horse and mule business in Iowa until their value amounts to more than all the other live stock combined and have better ones than any other state, notwithstanding the buyers are all the time trying to take the best out. In all the years I have been in the business I have always tried to get as good ones as my means would permit and I never lacked for business. Last year I stood six stallions and made a big season with all of them. The man that does not keep good stock will have to go out of the business. You do not have to pass laws to put him out and make it hard for the man that is doing right.

The farmer is not slow when he sees a dollar in sight. You do not have to drive him to a good stallion or jack. It appears that most importers want to do away with the grade horses altogether. I am not particularly in favor of keeping grades, but I do not think it advisable to knock them out altogether at this time, as I would rather have a good individual grade than a poor imported individual. In Europe all or nearly all the stallions are kept, while in this country nothing but the best, or nearly so, are kept. When the horse buyer comes around he does not question the breeding of the animal, but buys him for what he can see. A good individual and a right good individual is a very good pedigree.

We have altogether too many kid-glove horsemen and kid-glove farmers telling us what to do and altogether too much red tape. I would say to them to get in the business and get your feet wet and you will know more about it in ten years.

THE EXPENSE OF AUTO UPKEEP.

I notice in a recent issue of your paper an article regarding the upkeep expense of automobiles. While I don't know how my expense compares with others, I have kept an accurate account of the same and find I have paid out as follows:

Oil	$ 5.70
Gasoline	25.38
Spark plugs	1.95
Brass polish	.25
Repair damaged fender	3.00
Repair of tires (vulcanizing)	2.00
Exchange of two defective tires after 1,000 miles' use.	14.00
Three light tanks	7.50
Total	$59.78

My car is a 1912 model twenty-five horsepower; five passenger. It has been driven 2,630 miles on the above expense. Practically all the time it carried a load of three to five passengers. My gasoline bill is larger than it should be, as there was a leak in the connections, which I did not discover until cold weather. I purchased the car May 16, 1912. My experience has been that plenty of oil, water, well-inflated tires and careful driving regulate the expense.

Kansas. H. E. Cooper.

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MEAD CYCLE CO., Dept. T 184 CHICAGO

Wintering the Work Horses.

By W. F. Purdue.

EVERY farmer wants to winter his work horses as economically as possible, but it is to be regretted that some farmers practice economy in the wrong direction. The important point to be borne in mind at this time is this: Are the horses being wintered in such a manner that they will come out in the spring in the proper condition to take up the spring work and perform steady, everyday service? If this question can be answered satisfactorily, well and good. Those farmers who have learned that it pays to keep their work horses in good health and in good flesh during the winter months so the animals will be in prime condition to wade right into the spring work without suffering any serious effects have learned the true secret of wintering their horses most economically, while those who compel their animals to rough it through so that spring finds them long haired and run down in flesh have yet to learn this secret. Feed will be saved by the latter method of wintering the animals, to be sure, but it is costly economy to save feed in this way.

The work horses may be divided into three classes during the winter, namely, those that will be worked more or less regularly throughout the winter, idle horses, and mares in foal. In regard to the first class little need be said. Of course, their feed should be governed by the amount of work required of them, and therefore their management will not differ materially from other seasons. During periods of idleness the good manager will naturally cut down their rations, and he will allow the animals to secure some exercise on all idle days.

Idle horses, however, call for skilful management, particularly in regard to their feed. There is no need to supply fat and flesh nor to stimulate muscular energy. What is needed by the animals is a good maintenance ration, one containing sufficient nutrients to rebuild the tissues of the body as fast as they are broken down by the everyday activities of the vital organs. This can be accomplished only by regular and careful feeding on a good allowance of clean, palatable hay and a fair quantity of wholesome grain. Some bright straw and fodder may be used in connection with the hay, but the animals should not be confined to this class of roughage alone. The greatest mistake usually made in feeding idle horses is that of giving too much roughage in order to save grain. This practice seriously impairs the digestion if continued for any length of time. From ten to fifteen pounds of hay, or its equivalent in other feeds, is entirely enough roughage when given with a grain ration of from six to eight pounds per day. Three ears of corn three times a day along with a small quantity of oats or bran is a large enough grain ration for idle animals. Of course, if the horses are exposed to the rigors of winter without comfortable shelter more grain will be required than otherwise. But shelter is cheaper than feed.

Mares in foal need to be wintered much the same as the work horses, even though they themselves are not performing much work. Good nourishing food is demanded at all times. The mares may be worked regularly at light work if necessary, and nothing but good results will follow. They should be well shod, however, when taken out on slippery roads, but this applies to all the horses that are being worked. It is not advisable to keep shoes on the horses that are doing no work, because while standing in the stable the outside walls of the hoofs will overgrow the shoe. As exercise is very essential to good health, the good manager will allow all his horses the freedom of a large lot or field every pleasant day. Even on comparatively stormy days, when rain or snow is not falling, a few hours in the open air will be profitable. Let the sun first warm up the air before letting the animals out of the stable, then the change to the chilled atmosphere outside will cause no ill effects.

It pays to provide comfortable quarters for all the horses and colts during winter weather, though they need not be confined unnecessarily to their stalls in the daytime. But it is best to keep them shut up every night. A separate stall for each horse, and especially in the case of mares in foal, is preferable, then there is no danger of one animal inflicting injuries on another. It often happens that one of the horses in a double stall is stronger tempered than its mate, and then the latter is kept standing close to the wall with no opportunity to lie down.

The stalls ought to be light and well ventilated. Many horse stables in those sections of the country where the winters are usually severe have few windows. The prevailing idea is that windows admit cold air, hence they are undesirable. But it is impossible to keep a stable from becoming foul smelling without admitting an abundance of fresh air and sunshine. If all the windows are placed as high from the floor as possible, when they are open during the day there will be little draft directly against the horses. One or two windows may be opened at a time to admit fresh air, while, with glass windows, the sunshine will have access at all hours of the day. The stalls should not be planked clean to the top as most of them are. Just sufficient planking to make a barrier between the animals is best, then there will be a more free circulation of air through the stable.

Use bedding in the stalls liberally, as floors are always cold and uncomfortable without it. Then bedding helps to keep the animals clean and it makes the manure more valuable, as it absorbs the liquids. The straw or poor hay which is used for bedding will pay for itself in the increased value of the manure alone.

Horses will not drink as much water in winter as in summer, but they should have an opportunity to drink all they want in order that the bodily functions may be carried on properly. Icy water is not good, for the animals will not drink a sufficient amount of it, but it is not necessary to heat the water. Fill the water tank just before leading the animals out, then they will get the water at the temperature at which it comes from the well.

PROGRAM OF IOWA ABERDEEN ANGUS ASSOCIATION.

Beginning at one o'clock February 6th, at the Kirkwood Hotel, Des Moines, Iowa, the Iowa Aberdeen Angus Cattle Breeders' Association will carry out the following program:

Address of Welcome....Chief Justice Scott M. Ladd of the Supreme Court of Iowa.
Response by the President....J. V. Arney, Leon, Iowa.
"Proper Care of the Cow for the Purpose of Producing Good Calves"....Chas. Escher, Jr., Botna, Iowa.
"Proper Care of the Calf Until It is Ready for the Feed Lot"....E. T. Davis, Iowa City, Iowa.
"Care of the Calf from the Feed Lot to the Butcher"....H. J. Hess, Waterloo, Iowa.
"Care and Disposal of the Carcass from the Butcher to the Consumer"....Professor Pew, I. A. C., Ames, Iowa.
"Influence of Sire Over Progeny"....A. C. Binnie, Alta, Iowa.
"Care and Development of Bulls"....Sears McHenry, Denison, Iowa.
"Forage"....C. M. Russell, Carroll, Ia.
"Personal Experience on the Canadian Show Circuit"....O. V. Battles, Maquoketa, Iowa.
A general summing-up of the entire program....C. J. Martin, Jefferson, Iowa.
Question box.

This association has had a number of interesting meetings, but The Homestead believes that it has never in its history presented so attractive a program as the one outlined above. It will be noticed that in assigning topics men of standing and experience have been selected and it must be understood that after every topic an opportunity will be given to those in attendance for a full discussion. It is hoped that the attendance will be a record breaker.

Take the juice of a lemon and about a tablespoonful of salt and dissolve. Dip any rust spots in it and hang the cloth in the sun. They will sure come out.

The above engraving is made from a photograph of part of the herd of Hampshire swine owned by C. A. Brook, Washington, Iowa, who will hold a sale of bred sows on February 5th. If you are interested see page 48 and write for a catalog, mentioning The Homestead.

My Great Offer Still Good

A Pair of $3.00 Gloves or Mittens Free

I AM the man who startled the tanning trade last season by offering a free pair of mittens or gloves with each horse, cow, steer or bull hide which was sent to me to be tanned or to be made into a coat or robe. This offer was the best that was ever made by a tanning manufacturer. I was able to make it because I have reduced tanning to a science, having had 25 years' practical experience. Other tanning companies said that I would go broke if I kept it up. Before they got through talking, I made another big sensation in the tanning business. I not only gave my customers free mittens or gloves but I gave them greatly reduced prices, yet I haven't gone broke. On the other hand, my business is bigger than ever and I can handle goods cheaper than before. My modern plant can turn out more business than I believed was possible.

Free Gloves or Mittens.

H. B. MICKLE, President.

You Will Have to Hurry

I don't want to disappoint one of the many friends who want to do business with me this year yet I am liable to have to because my factories are rapidly filling up with work. I want you to write today for my best prices. I will quote you low prices on high-class work that cannot be gotten elsewhere. This I can prove to your full and complete satisfaction by a trial order. You take no risk in sending me a trial order as I guarantee everything. After you have received the goods back tanned and finished according to the Mickle process, you are not going to be satisfied but you are going to be delighted with the quality of my work. Mickle work is all hand work. No clumsy machines mangle your hides in our plant. That is why I can guarantee my work.

Get In on my Combination Mitten and Reduced Price Offer

If you have a hide ready, ship it to me today. You don't have to write in first to get the offer. It goes on everything received.

I am sure this offer is going to fill my factory clear full of work and that I will have to refuse some people. I do not want to refuse you, so please write today.

Mickle Fur Coat & Robe Company,

531 West 7th St., H. B. MICKLE, Pres. Mason City, Iowa.

This "Variable" Device Means More Corn

For years makers of farm machines tried to invent a corn planter with a reliable Variable Device—a machine on which the driver could instantly change the number of grains dropped, without stopping or getting out of his seat. Two years ago we announced the problem solved. So, 10,000 farmers have planted their corn with the new machine. And not one single planter failed to make good. Already each of the 10,000 machines has more than paid for itself. For the driver was able to plant extra kernels and get more corn where the soil was richer and to save seed where soil was thin or poor. And this machine can be instantly changed from edge to flat drop or back again. Hills are always straight and even—no matter how fast or slowly your horses walk, or who drives—yourself, your hired man or your boy. Our clutch is a wonder! The most positive ever made, bar none. Trouble-proof, too! And wears three to four times as long as others. Note the pictures and description of clutch in our catalog.

Note, also, the extra-quality materials we use; the perfect construction that comes only of painstaking, experienced experts. Note the special flexible connection to front frame. Adjustable width. Adjustable seat. Discs or runners. 30 or 36-inch concave, flat or open wheels.

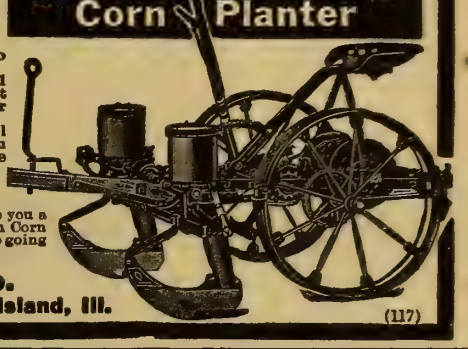
Then note that this planter costs no more than the ordinary kind.

Now, we want you to see a Rock Island No. 1 Planter. We want you to carefully compare it with other planters and then you can judge for yourself if it isn't five years ahead.

It will be easy to do this. Drop us a postal now and we will tell you the nearest place you can see this remarkable planter. At the same time you will receive our

Latest Catalog Free

And in addition to the catalog we will make you a free present of Prof. Holden's famous book on Corn Growing, if you write at once. The books are going fast and will doubtless soon be gone. Address



Rock Island Plow Co.

182A Second Avenue Rock Island, Ill.

(117)

"Badgers" Cost Little to Run

Badgers consume no fuel which they do not turn into *power*—therefore, are *economical*. Badgers always run perfectly—rain or shine, hot or cold, under heavy load or light load. Speed adjustable at will. Runs so smoothly needs no blocking. Perfect balance means long life. Extra large bearings. Perfect oiling system. Guaranteed for *five years*. Finest power plant for grinding, wood sawing, fodder cutting or any other belt driven machines. Made in Portable, Semi-portable and Stationary types, 2½ to 30 H. P. Learn all about these dependable and economical engines. FREE CATALOG. Give your dealer's name and we'll send you also first lesson of *free* course on gasoline engine operation. Do this today.

Badger Farmer's Friend GASOLINE ENGINES

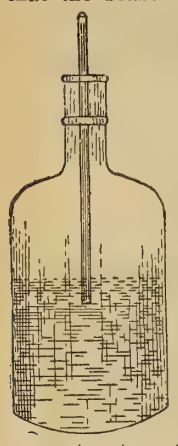
THE CHRISTENSEN ENGINEERING CO.
106 Badger Street 4 Milwaukee, Wis.

HINTS·SUGGESTIONS·DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

HOW TO CUT GLASS BOTTLES.

A farmer's wife wishing to preserve and jell several bushels of apples that were not keeping very well, found that the season for glasses and jars, was over, and she could not secure any. She made some as shown in the sketch. Empty bottles of various sizes were used, from one quart for jell glasses, up to one gallon water bottles for preserve jars. Warm lard oil was poured into the bottles, up to the point where she wished to cut off the top of the bottle, and a red hot iron rod was inserted about one inch down in the lard oil, the sudden expansion, caused the bottle to separate at or just above the line of the lard oil. As the oil can be used over and over again, the expense is slight. The rough tops were smoothed with a file, and paper used for covers.

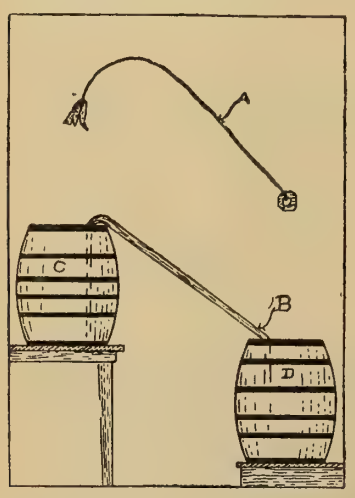


Handy Egg Tester.

A handy egg tester may be made in a few moments by tying a piece of heavy, black cloth over the end of a bicycle lamp as shown in the illustration. Cut a hole the size wanted for the egg, and place on a box or table where you can have the eggs handy, and the work can be done fast. The light is much stronger than an oil lamp, and if you will place the lamp on a box opposite the eye when seated, the work will be much easier, as you will not have to bend or stoop over.

How To Empty a Barrel.

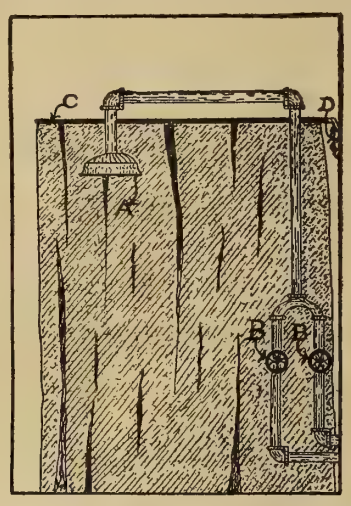
Many ruralists now buy gasoline and lamp oil by the barrel, and to empty same is no small job. The idea herewith illustrated will be found not only easy, but sure and safe. The barrel to be emptied is left in the wagon, or placed on a bench, so the lower end is just above the barrel or other vessel in which you wish to store the oil. A piece of three-quarter inch hose of sufficient length to reach from the bottom of the barrel to be emptied and across to the storage tank is secured and used as shown.



C shows the barrel of oil, D is the storage tank or barrel, and A is a stout cord some two feet longer than the hose, B. The cord has a weight such as a small tap fastened to one end, and a bunch of rags at the other end. Insert the cord in the hose, and allow the tap to pull it through, until the rags enter the end of the hose. Place the hose in the barrel, C, with the rags down, pull the cord and rags through the hose, and quickly insert the end in the tank or barrel D and the hose will empty the oil in a short time. The rags force out the air and the air pressure forces the oil in to fill the vacuum. The idea is a simple siphon, and the novelty is the manner of starting same by pulling the rags through the hose. A piece of soft rubber formed into a tight fitting disk answers the purpose so better than the rags. However, old rags are always at hand, and the rubber is not.

Home-Made Shower Bath.

The bath room can hardly be called complete without the shower bath, but the modern bath costs much money, and the man of moderate means can hardly afford one. Happily, however, he can construct a home-made shower that, if not quite as tasty, will answer the purpose just as well. To make one of these shower baths, disconnect the hot and cold water pipes from the tub, and by using two tees run a line of pipes as herewith illustrated, and again connect up the pipes to the bath tub. Arrange the pipes directly in the center of your tub. Fasten them neatly to the wall with fasteners made for the purpose. Have hot and cold water valves as at B B



and terminate the line into one pipe extending about six feet and six inches above the bottom of the tub and out to the center as shown. From the plumber or a supply house secure a shower head as shown at A and you have as good a shower bath as one can ask. All these pipes and fittings can be secured from any mail order house, and the cost will be not over $4 for all of it. You can make a diagram or drawing with a pencil and have the pieces all come cut ready for fitting. After the shower has been installed form a ring of one-half-inch iron, as shown at C and bend one end down as at D. Through two holes drilled here screw the ring to the wall. The opposite end of your ring should not quite meet at point D. The ring should be about thirty inches in diameter, and have a curtain of any water-proof cloth stretched around as illustrated. When not

Get 10 Bushels More Oats Per Acre Using The New Peoria Drill

You can do it and also save one-third of the seed because the Disc Shoe deposits all the seed in a packed bottom and properly covers it. No seed is left for birds to pick up or subject to the weather. Every seed sown by the Peoria counts. The Peoria Drill is fitted with many other features which make it superior to all others. The larger sizes, 12 to 22 have two levers instead of one—a great benefit to the driver. The levers are convenient to the seat, making the regulation of depth simple for even a boy to operate. We guarantee to furnish free any of the disc bearings that ever wear out.

The Peoria Sows All Varieties of Small Grain, Peas, Beans and Corn Without Injury to the Seed

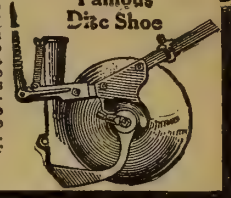
Most drills have 42 or 44-inch wheels—The Peoria wheels are 48 inches with long hub and wide tires. Peoria Drills are made in 18 sizes—one for every man's needs. The practical sizes for Iowa and Illinois Farmers are the 12-7 which sows 7 feet covering two corn rows and the 18-7 sowing 11 feet, covering three corn rows. Send postal for "Treatise on Oat Raising" and catalog of Peoria Drills and opinions from men who have proved the superiority of Peoria Drills. Address

Every Seed Sown By The PEORIA Counts — Write For Free Book

Peoria Drill & Seeder Co.
2435 North Perry Street. PEORIA, ILL.

Here's a picture of the Disc Shoe Furrow Opener used only on The New Peoria Drill. The shoe deposits seed at exactly the depth the disc travels. Write for Free Book.

Here Is Our Famous Disc Shoe



Warm Welcome for Feet

Yes—in these arctics they're snug—cozy—comfortable. Choose the four-buckle "Drednot" for deep work—the one-buckle "Illinois" for light snow and wet. Protect your pocket as well as your feet—buy long service.

BEACON FALLS
LOOK FOR THE CROSS
ARCTICS

"Drednot"

"Illinois"

These two are extra good from tip to top. They are made of tough, tested rubber with double reinforcements at heel and toe, and are fleece lined with outside of black cashmerette. They're a mighty good investment as thousands of farmers will certify. Ask for them at your dealer's. Turn them over, search for the "Cross" trade mark. If it isn't there, it's not a "Beacon Falls". If your dealer hasn't them, write us his name and ask for free handsome booklet No. 10.

Beacon Falls Rubber Shoe Co.
BEACON FALLS, CONN.
NEW YORK CHICAGO BOSTON

The Only Spreader with Two Beaters and with a Distributing Attachment. Pulverizes and Spreads Wider.

Man, it's a wonder! Covers three full rows—5 to 7 feet. Cuts the manure into shreds and distributes it evenly. No choking. No bunching. Guaranteed to do this with all kinds and conditions of yard and stable manure; also lime, ashes, compost and commercial fertilizers. See the spreading paddles in the picture!

New Idea Manure Spreader

The Spreader That Won the Hartman Contest

Far ahead of any other on the market. Simple construction. Light—but stands hard usage. No cog or bevel gears. Easy loading. Easy haul for double team—not a horse killer. Tracks with standard wagon. Solid bottom which never warps, breaks or wears out. Only perfect endless conveyor—cannot slip. All power direct from rear axle. Only two levers to operate. Strong metal wheels.

50 more strong points. All explained in New Catalog. WRITE FOR IT TODAY, whether you need a spreader now or not. SEND A POST CARD.

NEW IDEA SPREADER CO., 144 Sycamore Street, Coldwater, Ohio

Light
Strong
Never Clogs
Low-Down
Guaranteed

Let Me Send You This Book and I'll Quote Wholesale Prices

—on the Plows, Harrows, Discs and Drills that thousands of farmers swear by. I sell the famous high quality **Monmouth line** and I save you big money on the machine you want. I sell direct from factory. You keep the middlemen's profits right in your own pocket.

Try Any Monmouth For 30 Days—Free

at my risk—and I'll even pay the freight. If it is not perfectly satisfactory to you, and the biggest value for your money—send it back at my expense and the trial won't cost you a dollar. Read some of the letters in this book from my customers. And be sure to read how **Monmouth** implements are made. Whether you want a Plow, Cultivator, Disc, Spike Tooth Harrow, Drill, Gate, Farm Wagon, Gasoline Engine, Mower or Rake, I'll sell it

DIRECT FROM FACTORY, FREIGHT PREPAID, SO YOU KNOW EXACTLY WHAT THE COST IS

Mail coupon or postal now. I've been making and selling **Monmouth** farm tools for years. You ought to know me. I want to know you. Write me today. The Plow Man,

Monmouth Plow Factory,
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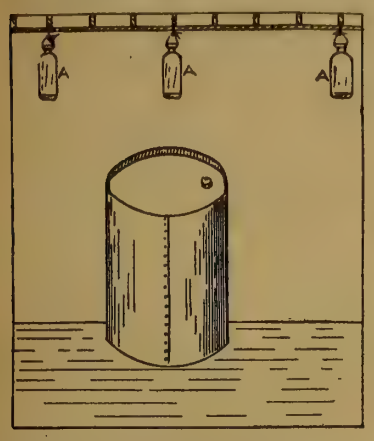
My Name.....

Town..... State.....

using the shower this curtain is pushed against the wall out of the way. By turning on either the hot or cold water your shower may be any temperature desired. Paint the pipes and fittings with any of the paints sold for painting bath tubs.

An Efficient Fire Extinguisher.

Where oil and gasoline are stored, fire is liable to occur at any time, and any means available to prevent said fires, should be used. Usually, we are all of us much too careless about such matters until after the first fire. One efficient way of prevent-



ing fires is to suspend one or more bottles of ammonia over and near the storage tanks, as shown in the accompanying illustration. Use bottles with very thin glass, and cord that has been greased. In case of fire, the cord burns, the bottle drops, brakes, and the ammonia fumes smother out the fire.

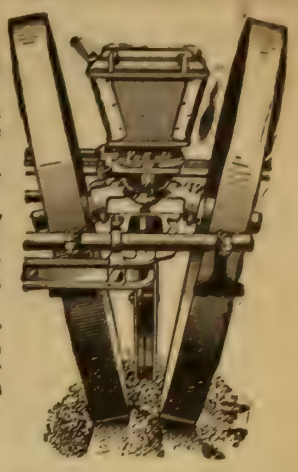
THE GOOD ROADS PROBLEM.

For thirty years the discussion of the good roads problem has been going on in the state. Many of the governors of the state within that time have called attention to the question and some of them have urged constructive legislation. Some progress has been made both in the way of better laws and in the improvement of the highways, but the most that has been accomplished is an aroused public sentiment in favor of better roads—perhaps in favor of permanent roads. Iowa will have permanent roads whenever she wants them. She will have better rural schools whenever she wants them. She will not have either before. Legislation awaits public sentiment—generally aroused, organized public demand. The next great era in the development of western civilization is going to be called by the historian The Era of Permanent Road Building. We are now at the very threshold of that era. We are face to face with the problem. No state can longer allow herself to be handicapped by mud. The economic waste is enormous. Not in the future can there be such a thing as a really great up-to-date state without good, permanent roads. The great cheapening of the cost of transportation to the markets of the country waits on permanent roads. The instant great increase in the value of land awaits the coming of the permanent road. There can be no complete solution of the country life problem in advance of the permanent road. The consolidated rural school will go halting and crippled until the permanent road passes the door. This is an ideal that will be realized in the future. How far distant it is depends upon the people of the state. This general assembly ought, it seems to me, to take hold of the problem with the end in view to ultimately realize this ideal. Nothing could contribute more to the greatness of the state and the welfare of all of the people. All that is done hereafter in the improvement of our roads ought to be with the view of permanency. Permanent culverts and bridges, permanent systems of drainage, permanent establishment of grades—all with the view of eventually receiving the permanent road. With this purpose in view the law should provide for the appointment of a county engineer. He should be thoroughly competent and not necessarily a resident of the county where appointed. There should also be created a permanent highway commission, composed of expert road men and engineers with such powers and duties in the way of the preparation of plans and specifications, estimates of costs, advertising for bids and general supervision and control as may after careful consideration be deemed wise. I can see no reason why provision should not be made for a referendum to the people of the question as to whether bonds of the state should be issued for the purpose of raising money for permanent road building. It would not incur a great expense to determine whether or not the people are ready to enter upon this work which would add more than anything else to the greatness of the state, and it would at least be of great value in causing universal discussion of the subject which must always precede any movement involving the change of long established methods and of thought. In the meantime our road laws, which now exist in a disconnected and patchwork form, should be revised, rewritten and strengthened for the purpose of securing the best possible temporary roads and for devising methods of administration looking to the coming of the permanent road. Selfish interests clinging to old methods and advantages, may be found in covert opposition. Permit me to suggest that you look carefully to this, as I know you will, to the end that private interests may not prevail against the common good.—[Gov. Geo. W. Clarke's message to Iowa Legislature.

How about staying on top of the mud, instead of down in the mud, this coming year? Wide tire steel-wheel trucks will help to do this, and also help to make better roads for your community. Get in the game for good roads. Ask for our free catalogue of instructions.
HAVANA METAL WHEEL CO., Box 47, HAVANA, ILL.

PATENTS that PAY. $557,580 made by clients. Patent book—"What & How to Invent—Proof of Fortunes in Patents" FREE. 112-p. Guide Free. E. E. VROOMAN, Patent Atty., 812 F Street, Washington, D.C.

Good Seed Isn't All—



Good seed and good soil is only the *starting point* in raising a big corn crop. You can no more afford to plant with an old worn out corn planter or a complicated new one full of fads and fandangles than you can to plant *poor seed.*

You can't afford to waste your time and labor or *risk your entire crop* with a planter that covers unevenly, misses hills or does not check accurately.

Uneven depth of planting means a bigger loss than many realize. It's *especially bad* in cold, backward seasons; often amounts to several times the cost of a planter in a single year. Avoid a planter that covers part of the corn so deep that no matter how good the seed or how rich the soil *many of the hills never come up*—or leaves other hills uncovered so that the sun and wind *destroy or stunt their growth.*

Hayes Four-Wheels regulate depth of planting to the fraction of an inch—this planter plants every kernel *exactly the same depth.* Here's why: Runners set back between the wheels, within 10 inches of the covering point. In going over ridges, dead furrows or uneven ground the shoe *rises and falls* with the wheels. **Hayes** planted corn all comes up at the same time, (proof of even depth of planting) and *allows earlier cultivation.*

Four-Wheels—Bigger Yields

Hayes Four-Wheels guarantee *surer germination and quicker growth.* Wheels pack the dirt from the sides to hold moisture and leave a ridge on top so that the corn sprouts quickly and comes up several days sooner. The ridge gives greater surface for sun's heat and prevents washouts in hilly fields. This method *assists the budding sprout.* protects its vitality and makes stronger and healthier stalks.

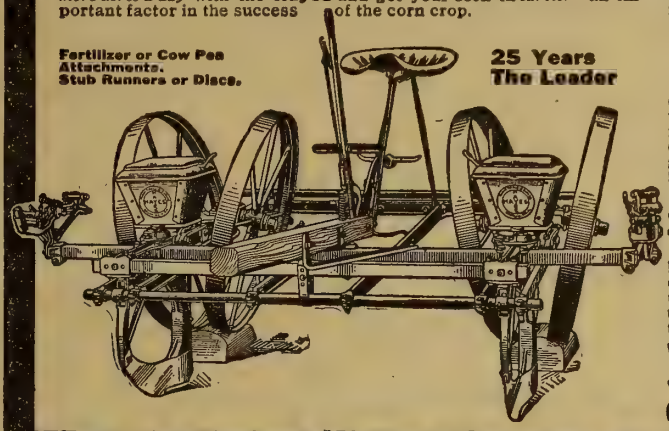
Hayes Four-Wheels *cover where all ordinary open wheels fail.* They open at the top and clean themselves. Guaranteed not to clog or carry the corn over even in wet and sticky soil. Insures a stand even in low wet spots of field and *allows earlier planting.*

Checks With Absolute Accuracy

No matter how fast you drive the **Hayes** *always plants in perfect check.* Cross rows are straighter than the way you drive. Easiest handled planter. Also shortest coupled, making it the *lightest draft* and turns in *shortest space.* For these reasons you can plant from *three to five more acres a day* with the **Hayes** and get your corn in *earlier*—an important factor in the success of the corn crop.

Fertilizer or Cow Pea Attachments. Stub Runners or Discs.

25 Years The Leader



Never Misses A Hill

The **Hayes** Drop *never fails.* It is the simplest, most durable and most efficient ever made. Fewer parts, less breakage and delays. Has no clutch to miss and give trouble. *Never cracks or grinds the seed.* Will drop accurately any size or shape kernel. *No bare spots* in **Hayes** planted fields. Increased yields soon pay for it. Corn growers are never disappointed with the **Hayes** *NEVER-FAIL DROP.*

160,000 Users Know

Thousands in use for years with practically *no repair expense,* and every one giving *time-saving, money-making* service. If the planter you used last year missed the hills, planted at an uneven depth, did not drop accurately, cut or cracked the kernels, scattered the seed, checked unevenly, clogged or was a constant source of trouble by getting out of fix, you can *save its cost* many times over by buying a **Hayes** Four-Wheel.

Think these things over and start investigating *NOW.* Learn the overwhelming advantages in **Hayes** Four-Wheel construction. *Ask any* **Hayes** *user.*

Learn the experiences of farmers who *have* increased their yields by big margins with the use of the **Hayes**—who *have* finished planting earlier—who *have* begun cultivation earlier. Every **Hayes** user will tell you the work is easier—faster—better; the results more satisfactory—more profitable. So much depends on the work of the planter that a farmer cannot afford to get anything less than the *best service.*

WRITE! This planter is *guaranteed.* It *must* be all we claim and all you expect. Send for Free Book "P" of Valuable Planting Facts. Write today, then you won't forget.

HAYES PUMP & PLANTER CO., GALVA, ILLINOIS

Hayes Four Wheel Corn Planter

SAVE 25 TO 50% ON HARNESS $25.00 FREIGHT PREPAID

For $25.00 we offer our Leader No. 53—1½ inch Team Harness set down at your railroad station. This harness, designed and made for durability and service is the biggest bargain we have to offer. While the price is exceptionally low for a harness of this nature, quality has not been sacrificed on that account. But, "after quality, it's the price that counts." In the harness here illustrated only the very best grade of Oak Tanned Leather has been used in its manufacture and our money-back guarantee stands behind every sale.

We issue a 100-page, completely illustrated catalog, jammed full of just such bargains as shown in the illustration.

Just drop us a card and we will send you by return mail one of these handsome books. We manufacture all our own harness in our spacious factory at Waterloo. This alone accounts for the rock bottom prices we quote—no jobber, salesmen, agents or brokers to split up the profit—just the manufacturing cost with one small profit added. This accounts for the fact that we are absolutely the largest manufacturers of harness and leather goods, selling direct from factory to user.

A comparison of quality and prices will surprise you. Write today to

WESTERN HARNESS & SUPPLY CO., 613 Main Street, WATERLOO, IOWA

SAW WOOD

Saw your own wood and save time, coal and money; your neighbors and

MAKE $5 to $15 a DAY

Hundreds are doing it with an APPLETON WOOD SAW

We make 7 styles—steel or wood frame—stationary or mounted on truck with gasoline engine, making a

Portable Wood-Sawing Rig

Rigid frame, lathe-turned arbor, running in self adjusting, non-heating, dust-proof boxes makes our saw frames simple, strong, safe and succesful.

We also make the famous FRICTION-DRIVE DRAG SAW APPLETON CIRCULAR LOG SAW.

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GOVERNMENT Positions are easy to get. My free booklet X-1143 tells how. Write today—NOW. EARL HOPKINS, Washington, D. C.

SALZER'S Seed by actual Test Doubles the Yield

Has done so for thousands of farmers in New York, Ohio, Illinois, Indiana, Wisconsin, Minnesota, Iowa, Dakota, Kansas, Nebraska and other states east and west. Why not for you?

These farmers have the same soil as yours.
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Why do they have larger crops?

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Let us send our new catalog and Premium List for 1913 for you to read and be convinced. It has the biggest, best things in Farm and Garden Seed, Flowers and Nursery Stock. We list a large number of money-saving Flower and Vegetable Seed Collections that will delight you with their splendid variety and completeness.

Salzer's Hardy, Northern-Grown Alfalfa

Will grow where clover grows and three times more valuable as a food producer. One ton equals ten tons of timothy. Hardy as an oak. Biggest, quickest, most continuous money-maker for the farmer.

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Four rare earliest sorts and one later. Separately packed, full weight, $3.90 per barrel. Farmers planting this collection have realized more than $100.

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Golden Glow (Wisconsin No. 12) and Silver King (Wisconsin No. 7) have been brought to greatest perfection. These varieties have revolutionized corn growing in Wisconsin—making it first in yield per acre west of Ohio. A strong grower and matures early. Our seed for 1913 is extra choice.

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Has a record of 259 bushels per acre. The most prolific oats in cultivation. Grain heavy and plump. Long heads. Straw stout and not readily lodged. We have made extra low prices for 1913, so that everybody will plant this great oats. Write for quotations from one bushel to one thousand bushels.

SUCCEED WITH SALZER'S SEED
10 Big Sample Packages 10c

For **10c** we mail big packages of Salzer's famous Alfalfa Clover, White Bonanza Oats, Silver King Barley, and many other packages fine farm seeds. **14c** Flower seed collection—six generous packages—brilliant bloomers, **14c.** Vegetable seed collection—six big packages—enough for a good garden—**16c.** Both collections for **25c**, or send **30c** and we add a package of wonderful new Earliest Red Riding Hood Tomato Novelty, alone costing 15 cents.

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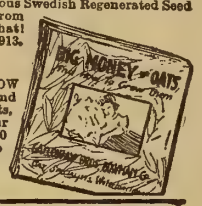
You can make big O-A-T-S money on your farm if you plant the right seed. Seed is everything, yet the smallest expense of farming. Last year those who planted our O-A-T-S got great crops—Nymeyer, Oak Harbor, Wash., 95 bushels to acre; Cling, Almos, Colo., 141½ bushels to acre (largest yield ever recorded); Richards, Dalton, Mich., 82½ bushels; Barnes, St. Anthony, Idaho, 119½ bushels—often more than double, sometimes trip'e their own common oats produced from same land. Our Free Book gives details—just packed with useful information.

This Seed O-A-T-S Germinates Nearly 100%

—Every seed sprouting, vigorous, hardy, full of life—with large kernels and thin hulls—not "weaklings" that yield only half crops at threshing time. Our famous Swedish Regenerated Seed O-A-T-S are grown on Galloway Bros. 1920-acre Canadian Farm from virgin soil. These oats weigh 48 lbs. to the bushel. Think of that! Plant these O-A-T-S this Spring and get this big O-A-T-S money in 1913.

FREE Book and Samples

Our wonderful book "BIG MONEY IN OATS AND HOW TO GROW THEM" tells all about these Seed O-A-T-S, how to plant, cultivate, and pocket the big O-A-T-S money. You can have it FREE. For 10 cents, to cover packing and mailing, we send a large FREE packet of our Big Money Seed O-A-T-S. For 25 cents a triple size packet. For 50 cents packet three times 25 cent size. The empty packets will be accepted as cash, to apply on your future orders. Write us at once.



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SUTTON'S CORN GROWS

We are the largest seed corn firm in the world. Big plant at Mason City in central Illinois, and big new plant at Geneseo in northern Illinois. Over 75,000 bushels of thoroughbred seed corn in our furnace heated houses. **15,000 bushels on wire hangers selected by men going through fields with sacks over their shoulders.** Germination perfect. **All seed shipped on ten days approval.** Grow our own seed. Begin gathering seed in September. Central and northern Iowa, and northern Illinois farmers, get your seed at Geneseo, Illinois. A perfect stand will make you money. Write today for our beautiful corn book, **free for the asking.** If you are in central or northern Iowa or northern Illinois, address Geneseo, Illinois.

The G. D. SUTTON CO., Dept. D Mason City, Ill.—Geneseo, Ill.

SEED CORN

ST. CHARLES RED COB WHITE CORN
THE BEST CORN FOR ENSILAGE

Grown only in St. Charles county, Mo.; buy it direct and get the genuine article. Write for prices.
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SEED CORN

BUY your seed corn early. Hundreds of bushels selected the last of September and first of October and hung on wire hangers. Germination perfect. Send for catalog and order seed to be **SHIPPED WHEN YOU WISH.** Hundreds of dollars returned last year because we could not fill orders. Pure-bred seed corn raised in the famous Mississippi Valley. The best corn land in the world.
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SILVER PLUME

A BEAUTIFUL medium, early white oat with the stiffest straw and heaviest yielding qualities, 85c graded and sacked. Send for post card. Address
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SAVE MONEY

ON your trees and plants and get a valuable Premium besides. A postal will bring full information.
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Cost No More Than Common Seeds.

Forty-eight years' continuous experience has taught us how to produce the best seeds, what varieties are best to plant and how to give the best service to our customers. Largest establishment in the West. 8,500 acres in seed growing, 14 departments in charge of experts. All the best novelties and standard varieties of Garden and Farm Seeds, Plants, Bulbs, Nursery Stock, Poultry Supplies, etc. Ask for a copy of our large, finely illustrated catalog. Address
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"More Potatoes"

From ground planted secured by use of The KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate, A simple, strong, durable machine. Write for CATALOG, price, etc.
A. J. PLATT, MFR., BOX H STERLING, ILL.

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

PROFIT IN BEANS.

Why do we import annually such a vast quantity of beans to supply the home demand? Why do our farmers allow the ports of New York and New Orleans to be crowded with beans from the countries of southern Europe and almost every other part of the world? Why haven't they waked up to the abundant profit from easy crops of beans raised at home? The answer is, they have. Farmers all over the country are being roused more and more to the importance of this hardy, nourishing vegetable, its importance as a staple article of diet—wholesome and nourishing—and its value to the farmer as a safe and profitable crop.

But there is still an overwhelming demand with which home production has not coped. And with beans passing the $2.50 per bushel mark it behooves every thinking farmer to consider seriously whether or not he will share in these profits by growing beans on a good, big scale in 1913.

A fair idea of the possibilities in the total yield may be seen in the figures representing an output of only the three states of Michigan, New York and Wisconsin. The bean yield for 1912 in these three states alone amounted to 20,000 carloads, each having a capacity of 40,000 pounds, which means 800,000,000 pounds of beans.

And not only in these wonder-working states, but almost anywhere in the Union beans of one variety or another can be grown profitably.

It has been shown that they will mature successfully in all northern latitudes and many of the southern states have made excellent showing in the way of good bean production. More people are eating beans. It is no longer the laboring classes—those who are forced to economize who select beans as an article of steady diet. People are learning the remarkable nutriment of well-cooked beans.

American canners by vigorous exploitation have created a new demand for beans. They have brought people to a knowledge of the delicious flavor of beans when rightly prepared, as well as their rich food value. And, because of the trade they have thus built up, these industries consume annually quantities of beans so vast that they are almost unbelievable.

The market page, with its report of high and steadily increasing prices, is proving a decided encouragement to the farmer—is opening his eyes to the really tremendous possibilities in bean culture.

It is not necessary for him to specialize on fancy varieties. Simple white "navy" beans are gaining in popular favor at an extraordinary rate. They will grow in almost any soil. Wherever wheat and corn will grow—you can raise beans. From Maine to Florida every degree of latitude seems to suit this adaptable crop. In all the north central states these beans will thrive, and hundreds of thousands of bushels are raised in Illinois, Indiana, Iowa, Minnesota, Wisconsin, Ohio and Pennsylvania.

It is only recently that the world has begun to realize fully how much of the profits and prosperity of our northern states is based on the simple white bean. Farmers have learned, too, that old land is better than new for bean culture. That an inverted clover bed brings a full harvest. And that when grown in rows between clover and wheat, beans not only flourish of themselves, but fill the ground with nitrates.

For planting time there are no set rules, only the common-sense advice based on the fact that the bean seed needs warm ground. When once this is understood, the wise farmer bides his time independent of rule or date. The most successful bean growers of the northern states recommend planting about the middle of June. Experts agree that the plowing should be at least six inches deep. Since demand regulates supply, it is safe to predict for 1913 a far more general growth of enthusiasm among farmers

Is Your Home Sheltered?

Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

TRANSPLANTED 100 EVERGREENS $7.50
Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of

IOWA'S GREATEST EVERGREEN SPECIALIST.

I ship direct from the ground on the day the order is received. The trees you buy of agents have been out of the ground often three weeks. That is why they don't grow. Buy direct of me and you will be satisfied. We can also sell you prize-winning **"True-to-Name" Fruit Trees** and berry plants guaranteed to prove hardy or cost you nothing. Catalog of special bargains FREE.

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EARL FERRIS NURSERY CO.
210 Bridge St., HAMPTON, IOWA.

Seed Corn that tests 95 to 100%

AINSWORTH

Sold under absolute germination guarantee. Test the corn yourself twelve days. If not up to germination guarantee enclosed with shipment, return at our expense and we refund purchase price. Every bushel of Ainsworth corn is dried in the plant and hand sorted three times. All crate corn dried on racks. We own our own farms—1,000 acres—grow our own seed—do not ship an ear of "crib corn." Our entire stock is our sample. The largest Seed Corn drying building in the world. Get our 1913 Corn Book FREE.

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Sonderegger TREES AND SEEDS THAT GROW

AT IT OVER 28 YEARS

For twenty-seven years I've been selling "Seeds and Plants that Grow." I've been selling them direct—at rock bottom prices—no agents' commissions attached. My catalog has always been my only salesman. My

Free 1913 Nursery and Seed Book

is now ready. Send for it. It's the result of 27 years' experience. Lists all kinds of trees and plants, farm, garden and flower seeds. Quotes lowest prices, no agents' commission to pay. Here are a few of the many bargains. Apples 8c each; Cherry 14c each; Plum 15c each; Catalpa Speciosa seedlings 8-12 inch $1.75 per 1000.

SPECIAL 10c Offer 5c pkt. Mixed Colors Petunias; 10c pkt. Ex. Fine Mixed Pansies; 10c pkt. Giant Single Pinks; 5c pkt. Finest Mixed Poppies. 30c worth for 10c, postpaid.

Remember my seeds are all Nebraska Standard. I pay freight on $10.00 tree orders. Send for catalog, see my prices. A postal brings it.
German Nurseries & Seed House, Box 143 Beatrice, Neb.

FERRY'S SEEDS

Market gardeners and large planters everywhere place absolute confidence in Ferry's seeds. Professionals make their profits by knowing where to put their trust. Ferry's vegetable and flower seeds have averaged best for half a century. They are pure and they are vital. For sale everywhere.

1913 Catalogue free on application.
D. M. Ferry & Co., Detroit, Mich.

Onion Seed

85c per lb. and up

Write for FREE SAMPLES of our new crop onion seed; lowest wholesale prices, and Free Leaflet on onion culture. Catalog Free. All kinds of garden seeds at wholesale prices and freight prepaid.
Henry Field Seed Co., Box 25 Shenandoah, Iowa.

Why Dont You Buy Guaranteed SEEDS

Guaranteed to satisfy. Write for our large 76-page catalog telling all about our sure way to grow Garden, Flower and Field seeds. Prices low, quality guaranteed. It is to your interest to write A. A. Berry Seed Co., Box 203 Clarinda, Iowa

SEED CORN HOME GROWN—direct from farm to you—not elevator seed We are growers and send you only pure fresh seed of highest germination Buy direct and save all middlemen's profits Send for FREE book and FREE samples.
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PURE SEED — Pepseeco Brand "CREAM of the CROP" — BIG YIELD

ALFALFA

The Crop That Makes You Money.

Don't plant inferior Alfalfa seed—Get "Pepseeco" Brand. It is the highest grade seed that can be secured anywhere, regardless of cost. You pay no more when you buy the "Pepseeco" Brand Seeds, and every sack is carefully selected, more thoroughly cleaned and more rigidly inspected than any other. This seed has been chosen for its high quality, perfect germination and resistance against drought. Insist upon having "Pepseeco" Brand Alfalfa as well as

Clover, Timothy, Millet, Cane, and Kentucky Blue Grass

Sold by 4,000 dealers throughout the United States. If your dealer cannot supply you, write us.

FREE PEPPARD BOOK containing valuable information about Alfalfa, Clover and other seed. Sent free if you furnish your dealer's name. Write for this book today.

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CORN SAVER BEETS

Double Hog Profits

Save one-half of your corn by feeding beets to your hogs and double your profits. These beets grow 40 to 80 tons per acre. Illustration shows one beet, weight 28 lbs. Plant 10 lbs. to acre. Healthy feed for milch cows, extra rich in sugar. Write for Free Book that also tells about our exceptionally fine New Shallu, Milo Maize and Kaffir corn.

All seeds at remarkably low prices this season. But they may go up—order NOW.

GRISWOLD SEED CO., 101 South 10th St., Lincoln, Neb

$1,000,000 More Corn Profit

That's what farmers are making by testing their seed corn. Instead of 40 bu. they are raising 75 bu. to the acre. You can do the same. The secret is to test corn with

Holden's Ideal Corn Tester
The Most Perfect Tester Made.

It's the surest, quickest and best way to sort out good seed. Good seed means big crops, larger profit. Holden's tester tests accurately. Easy to operate. Built of steel. Sells at a price which every farmer can afford.

Valuable Corn Book Free

Write for complete circular and price of tester. Get corn book Free. Address
NATIONAL SEED TESTER CO.,
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5 STAR FLOWER SEED NOVELTIES For Only 10 Cts.

Celosia Castle Gould, most brilliant of flowers.
Crego Aster, monster white, enormous in size.
Carnation Everblooming, finest white, large double.
Giant Portulaca, a glorious new sort of marvelous brilliancy.
Orchid-flowered Pansies, wonderful colors and forms.

These 5 most superb Novelties sold last year for one dollar. Nothing better in cultivaton. We mail all 5 with cultural directions and big Catalogue FOR ONLY TEN CENTS.

Our big Catalogue of Flower and Veg. Seeds, Bulbs, Plants and new Fruits free to all who apply. We are the largest growers in the world of Gladiolus, Cannas, Dahlias, Lilies, etc, and our stocks are the best and cheapest.

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GOOD SEEDS

BEST IN THE WORLD
Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE

Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

Pure Bred Seed Corn

Picked in September, sure growing, big yielding, Reid's Yellow Dent, Johnson County White, Leaming, Improved Silvermine, and Bloody Butcher, grown by us on Sunnyside Seed Farm which we own and operate ourselves. Send today for the free corn book giving full particulars, prices, etc.

McGREER BROS., COBURG, IOWA.

CLOVER AND TIMOTHY $4.50 Per Bu.

INVESTIGATE—Best and Cheapest Seeding Known. Alsike Clover and Timothy mixed. Fully 1-3 alsike, a big bargain. Greatest hay and pasture combination grown. Write for Free Sample and 76-page catalog and circulars describing this wonderful grass mixture. Beats anything you can sow and ridiculously cheap. We handle only best tested recleaned seed guaranteed. Write before advance.

A. A. BERRY SEED CO., Box 503, Clarinda, Iowa

that will keep pace with the way beans are growing in popularity and favor with every one.

From every point of view there is wisdom in the old saying about the man who "knows beans." Everybody ought to know them—from the consumer whose bone and tissue, brain and muscle are all enriched and improved by a diet of good, old-fashioned beans, to the farmer who in beans has an opportunity of raising a safe and heavy crop and of finding a ready market, at top prices.

TOMATO GROWING ON THE FARM.

To the Editor of The Homestead:

Wherever the tomato will thrive fairly well, it should certainly find a place in the farmer's garden, if not, indeed, in a larger way as a field truck crop. It has a wide range of adaptability—even wider than corn—as there are many sections of the New Northwest where corn cannot be matured to any extent, but in which large crops of tomatoes are produced. This is owing to the fact that in all sections of the country it is customary to start the tomato plants under artificial conditions in order to secure greater earliness of the crop. Hence, given this customary assistance, it will thrive where corn, melons and like crops, will not.

Many large growers of tomatoes use only a hotbed for such artificial aid; and a much greater number who grow them in a generous way for both home and market, do not even use the hotbed, but start the plants in boxes in sunny windows, and as the sun gets higher and warmer, move them out in the open sunshine for a few hours in the middle of the day. Very good plants may be produced in this manner, and they will have the merit of being hardened to outdoor conditions, which is not the case with the plant grown in the greenhouse, or even the one grown in the hotbed, unless in these cases a cold frame is used for this hardening process. Then too, tomato plants can always be bought at reasonable prices from the professional growers.

The tomato, as compared with most fruits, is an easy crop to handle. It ripens very gradually, so that the picking is distributed over quite a long period of time, and is a very quick operation anyhow. The total yield during this long season is simply enormous—much more than any crop of potatoes when conditions are furnished for best results in both crops. When early varieties are planted and are pushed along so as to be nearly ready for blossoming when finally set in the open ground, one can get a fancy price for the first few pickings, or until the main later crop comes forward.

Where the farmer is growing, say half an acre or more, it will pay to plant them rather far apart and check-row so as to do as much of the work of cultivating as possible by horse power. Four feet each way would be none too far apart, as the growth is so rank that put much closer, the cultivator would soon be driven out by the lopping down of side limbs. When planting in this check row plan, after marking, dig a hole at each intersection of the marking, almost as big as a half bushel measure. In the bottom of this hole drop a good big shovel of horse manure. Mix it up well with the dirt and then draw three or four inches of dirt over it. The plant bears for so long a time that it needs a reserve food supply, which the roots will reach rather late in their growth when the dry hot weather is on, and the roots are driven downward for moisture.

I have never found it very satisfactory to attempt pruning the tomato. It only induces a rank side growth from each junction of the side limbs with the main system, thus calling for more and more pruning. The only time I do any top cutting is just as the first ripening commences, when I go through with a corn knife and cut off a good deal of the top, so as to let the sun get a fair chance at the clusters of fruit.

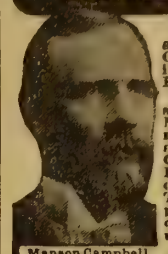
It will pay to get nice twenty-pound boxes in which to ship the first ripenings. The twenty-pound box takes just two tiers of good-sized tomatoes laid flat, bottom side up. If some of the fruit is a little too small, lay it up a little edgewise, one leaning against the other. The box must be a trifle over full so that the t n cover boards will be sprung a little, in order to get twenty-pounds in the box, and to prevent shucking of the contents. While there are many good early varieties, I prefer the Earliana. Subscriber.

One Dollar Is All It Now Costs to Have Your Seed-Grain Cleaned and Graded

$1.00 Brings It—Freight Prepaid

1913 Model

The CHATHAM Grain Grader and Cleaner



Manson Campbell

Now that farmers everywhere are cleaning and grading their Seed Grain, the question is, how to get it done *best, easiest* and cheapest. Here's my 1913 offer:

Send me one dollar and I will ship you, FREIGHT PAID BY MYSELF, this improved 1913 model Chatham Grain Grader and Cleaner with all equipment. Clean your Seed Wheat, Oats, Flax, Barley, Peas, Beans, Corn, Grass Seed, etc. Then PLANT those fine seed. AFTER you have harvested a bumper crop, pay me the balance of my low price. Not one penny need you pay, except the $1, until next November. And by November YOUR CHATHAM WILL HAVE MORE THAN PAID ITS ENTIRE COST in INCREASED CROPS. Then you'll have a "Chatham" to work FREE for you the rest of your life.

Your Dollar Returned

If you want it. I don't want your dollar or want you to keep my "Chatham" unless it pleases you. If, after a 30-day test, you are not satisfied, return the machine at my expense and I will send back the dollar.

A Machine That Fits Your Farm

After 40 years' experience, I know every grain and noxious weed grown in America. I know the section where each one grows. I know every grain and weed that grows on *your* farm. Experience has shown that a Grain Grader and Cleaner should have special equipment for the particular farming section to which it goes. For example, I send an *entirely different equipment of screens*, riddles and gangs to Maine from what I send to California. In fact, *there are scarcely 2 states in the U. S.* to which *I send the same equipment*. Thus you get the exact and proper outfit to handle the grains and weed seed that grow on *your* farm. You *don't* have to pay for a lot of extras for which you have no use.

Extra Screens and Riddles Free

In case you want more or different screens, just write me and I will send them free. Not a penny would I ask for extra screens and riddles.

I also have a Free Service Department which will separate, clean and grade FREE any mixture you send in. If you've got some impurity in your grain that you cannot get rid of, don't get discouraged. Write me.

Handles all Small Grain and Grass Seed

My 1913 Chatham handles over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc. Takes cockle, wild oats, tame oats and smut from seed wheat; any mixture from flax; buckhorn from clover; sorts corn for drop planter. Removes foul weed seed and all sunken, cracked or sickly grains. Takes out all dust, dirt and chaff. It is also a bully chaffer. Handles 60 bushels grain per hour. Gas power or hand power. Easiest running mill on earth.

Special Corn-Sorting Attachment

Last year I added a Corn-Sorting Attachment, which grades corn so that a *round* or *edge* drop planter drops the right number of grains in 98 out of every 100 hills (in repeated tests at State Agricultural Colleges). Same planters, loaded with *ungraded* corn, make only 65 out of 100 perfect hills. In two months I shipped to Iowa farmers alone 4,000 machines with Corn-Sorting Attachments. Try my Special Corn-Sorting Attachment. *It will increase your corn crop amazingly!*

Postal Brings My New Book

on Seed Selection. Every chapter is highly practical and exceedingly interesting. It shows an easy, simple way to get rid of any weed on your farm; how to separate any mixture of grains—in short, how to get perfect grain for *sowing, feeding* or *marketing*. Send postal *today* and receive by *next mail* my new Book *free*. Address Dept 50

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ALFALFA

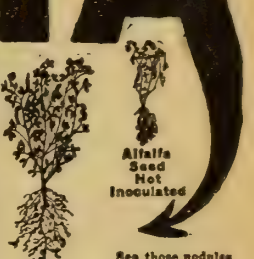
CAN BE GROWN IN ANY LATITUDE

That's a fact—let us prove it in our Alfalfa Book, free. You can grow Alfalfa. Look at the picture—that's the answer. The seed of one plant is inoculated—the other not. Our Alfalfa Book will tell you how to inoculate Alfalfa seed so as to not only give greater $ Cash Money $ crops of Alfalfa but also to abundantly enrich the soil. It's money in your pocket to read this book. Send ten cents to cover cost of handling and mailing, brings it to you in the next mail. Send at once—Now.

THIS GREAT ALFALFA BOOK

Gives you the results of Alfalfa growing by our method of inoculation. It tells you what the U. S. Department of Agriculture, State Experiment Stations, leading soil experts, and practical farmers everywhere have to say about our inoculation. How do we do it? By "Nitragin" the famous Nobbe-Hiltner Process, which has been tried and proved a positive success. You must not miss the contents of this book—you cannot afford to miss them. And, if after you get it and read it through it isn't worth a dollar to you, we will remit this money. It means more money to you. Learn to grow greater Alfalfa crops by inoculation—to grow them where they never grew before. Send 10 cents now for the great Alfalfa Book. Why not start a soil enriching campaign on your farm? We will help you. Let us tell you in our book how to meet your soil conditions and how to get big $ Cash Money $ crops. Write us once.

Galloway Bros.-Bowman Co., Pure Seed Specialists, Box 104 C, Waterloo, Ia.



Alfalfa Seed Not Inoculated

Alfalfa Seed Inoculated

See those nodules on the roots of the inoculated Alfalfa—real nitrogen factories

STRAWBERRIES PAY BETTER THAN ANY OTHER CROP. We grow the kind of plants that will pay you to plant. We also grow all other kinds of small fruit plants. Our catalog is different from any other catalog; it will pay you to get it. It is free. Address F. W. DIXON, HOLTON, KANSAS.

FARM SEEDS

Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, Seed Corn, Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. Large illustrated catalog of great value to farmers free. Mention this paper.

Iowa Seed Co., Dept D1 Des Moines, Iowa.

PLAN ORCHARD BEFORE ORDERING TREES.

To the Editor of The Homestead:

The agent for nursery stock is beginning to toot his horn in the land, and once more the farmer must order stock or almost insult him to get him to pass on. Many a farmer will fall a victim to this man with pictures of beautiful trees and apples and peaches that look good enough to eat. While the farmer cannot afford to be without a home orchard, he need not waste his money even if he does his time with fruit agents. He can endure the agent for a time and if he cannot get rid of him any other way he can call his dog.

In the first place, the farmer should not invest in trees until he thinks the matter over, decides on location of his young orchard and just the kind of trees he should purchase. Then if the agent calls he will know just what he desires and can soon give his order.

The best piece of soil near the home should be selected for the home or-

Great New Everbearing Macatawa Blackberry

This year you should grow berries. It's the thing that pays in commercial fields and in gardens. And to make your work count for the most, grow the heaviest yielders, the biggest, meatiest, best-flavored berries.

Macatawa Blackberry has all these qualities, and more. It's a brand-new sort, a cross of Eldorado Blackberry and true Giant Himalaya Berry. The berries are extraordinarily large—3¼ inches around one way, by 3½ inches the other. They begin to ripen July 1; the big pickings come just after July 1, and you get ripe berries until frost.

Berries are sweet even when green, free from core and seeds, meaty and altogether delicious, wonderfully good to look at, and just as good to handle, to ship and to eat—high-priced and profitable.

Plants Begin Bearing the First Year

and yield immense crops afterwards. They are absolutely hardy in 40 degrees below zero. Macatawa plants $1 each, or 6 for $5. Only 6 to one person.

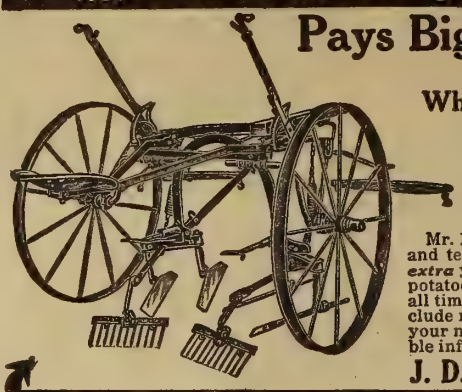
Send today for the 1913 Berrydale Berry Book. Full of valuable Berry information. Contains true descriptions of the Macatawa Blackberry, of Himalaya Berry and many other profitable berries you ought to grow in your garden or fields. Let me have a card for the book today.

A. MITTING, Berry Specialist
BERRYDALE EXPERIMENT GARDENS
Iowa Avenue, Holland, Mich.

chard. If the farmer does not intend to grow fruit for the market, from twenty to thirty trees will be all he will need if his family is of average size. These trees should be placed about twenty-five feet apart each way, giving them plenty of room to develop and affording space for cultivation. The varieties of apples chosen should be the extra early, the medium and the late varieties. Two or three of the first kind will be sufficient. Select six or eight of the medium and let the rest be the late varieties.

In dealing with nursery agents one should be assured that they are wholly reliable and the firm they represent has a reputation for honesty. If one does not live far away from the nursery, it is no doubt a good plan to visit it and select your trees direct and not depend on the agent. Many a farmer has ordered his stock of trees from an agent and discovered when they came that they were a cheap, scrubby stock. And he may have found when trees began to bear that they were all of the same variety. W. D. Neale.

INCORPORATED 1901 **Towers' System of Surface Culture** SALES 1434S 1912



Pays Big Dividends and also Pays The Rent!

Demands the Attention of every Intelligent Farmer.

When you buy a Cultivator see that "TOWER" is on the tongue.

TOWERS' Surface Cultivator

stirs every inch between the rows, makes a dust mulch (which saves moisture for the plant), kills weeds, prevents firing of corn, and does ***no damage*** to any of the crop ***roots*** (as do "pointed shovels").

Mr. Farmer:—Let us prove to you by evidence of scores of experts and tens of thousands of practical farmers that it ***pays for itself*** in ***extra*** yield of corn it tills in one season. It is great also for cotton, potatoes, sorghum, etc. The "TOWER" is the only cultivator needed all time. Write for our ***free*** literature of facts and figures which include rules for handling and increasing your corn crop, etc. Send your name and address today. A postal card brings all this valuable information. Address the manufacturers,

J. D. TOWER & SONS CO., 40th St., Mendota, Ill. (One Right Way)

ADDITIONAL FIELD NOTES.

Harding's Great Col. Gano Sale.

One of the greatest attractions in Duroc Jersey brood sows that will be sold in a public sale this year will be the sale of R. J. Harding at Carson, Iowa, on February 3d, when he will sell forty of the best sows he ever drove through a sale ring. The greatest attraction of all, however, will be the seventeen head that will be bred to that remarkable of all great boars, Col. Gano. The Duroc Jersey world today has their eyes on this great boar and they have a right to have. At the fairs last fall Col. Gano held the attention of all the best breeders and it was their universal opinion that he was one of the greatest boars ever seen at the fairs. As a breeding boar his get have more than come up to expectations and his get in the various sales this winter are simply topnotchers. Mr. Harding is selling a full sister to that noted boar, Professor, in this sale, and she is bred to Gano. All of his show herd that made such a good showing at the leading state fairs last fall will be bred to Col. Gano. Twenty splendid fall yearlings, all sired by Chief's Protection, one of the greatest boars he ever bred and used in his herd, will be included in the sale, and these are good. Fifteen sows in the sale will be bred to his splendid young boar, R. J.'s Wonder, and this young boar was the top of the Sells fall sale and he was pronounced by all who saw him as a corking good one. If you are going to want Duroc Jersey bred sows whose get must necessarily be in the limelight you will make it a point to be at the Harding sale on the above date. Bids sent to M. T. White, Homestead representative, in care of Mr. Harding, will be properly handled on day of sale.

Lingford's Poland China Sale.

A Poland China event that will no doubt be of interest to many will be the sale that will be made by W. A. Lingford, Dannebrog, Neb., at Grand Island, Neb., on February 13th. Mr. Lingford is a man who has come before the public a great deal the past two or three years. He has been breeding Poland Chinas for a long time, but the rapid strides in the busines have been made the past two or three years. The writer is familiar with this herd, we had confidence in the sort of hogs Mr. Lingford was producing, and for this reason did not hesitate to recommend them to the best breeders in the country. The writer has been aware at all times that this herd of hogs were not the extreme big type, yet we have believed all along that they were large enough to make profitable hogs, figured on a pork production basis, and that it really was the only way to estimate the value of any strain or breed of hogs. The writer and this paper have been instrumental in placing a great number of boars from the Lingford at the head of pure-bred herds of Poland Chinas, and we are glad to say that, so far as we know, they have pleased all buyers and many of the best breeders, especially men in Illinois, are strong in their praise of the boars from the Lingford herd. Some of the very best Iowa breeders have purchased boars from this herd and the get of boars from this herd occupied quite a prominent place at the recent Iowa State Fair. A year ago, at the Nebraska State Fair, Mr. Lingford was one of the strongest exhibitors at the fair, and the get of his well-known herd boar, Golddust Hadley, won more places than the get of any other boar at the fair. In 1912 the herd was not quite so successful, yet some first places went to them and a number of seconds. The Nebraska fair is regarded as the only big-type Poland China show in the whole country, and it sure takes a good hog to win at this place. In the forthcoming sale of brood sows that will be made by Mr. Lingford there will be many of the daughters of Golddust Hadley and Pawnee Sampson, and everything offered will be bred to one of these two boars, or to Revenue Exception, a boar that Mr. Lingford purchased of J. W. Leeper, Norton, Kan., last fall. He is by Revenue Chief by Exception. He is one of the very best young boars of the country and sows of the above line of breeding mated to him should produce mighty well. We just wish to ask that you send for the catalog at once. Plan to be on hand sale day. It will pay you to do so. Mention this paper when writing for catalog. See advertisement on page 41.

The World's Greatest Guernseys.

Of the thirty-five Guernsey cows which in herds of American dairymen have produced more than 600 pounds of butter fat in one year a very satisfactory number have been bred and owned by Wisconsin breeders and are named in this list of cows and heifers producing more than 600 pounds of butter fat in one year. Those five years and over: Spotswood Daisy Pearl, 957.38 pounds of butter fat; Imp. Beauty of Park Farm, 898.82; Dolly Dimple, 876.34; Yeksa Sunbeam, 857.15, and Dolly Bloom, 836.21. Four and a half to five years: Dairymaid of Pinehurst, 910.67; Imp. Itchen Daisy 3d, 714.10; Standard's Morning Glory, 714.10; Penthesilia, 658.39, and Imp. Beauty II. of Maresquet, 657.29. Four to four and a half years: Honor Bright, 694.64; Yeksarose, 678.16; Yeksa Lind, 650.56; Lillian Bishop 2d, 649.01, and Imp. Violet of the Bourg II., 623.53. Three and a half to four years: Dolly Dimple, 906.89; Pearl Maiden of the Glen, 695.73; Nellie Tostevin of Mapleton 2d, 637.71; Queen of the Roses, 604.94, and Robiline 2d, 603.59. Three to three and a half years: Dairymaid of Pinehurst, 860.26; Sweet Maria, 682.86; Rutila's May Rose, 655.93; Dolly Bloom, 623.94, and Emma McPeake, 604.96. Two and a half to three years: Azucena's Pride 2d, 706.46; Rose of Langwater, 669.89; Yeksarose, 638.49; Imp. Rouge II. of the Brickfield, 612.53, and Lily of Helendale, 600.49. Two to two and a half years: Dolly Dimple, 703.36; Langwater Princess, 651.19; Langwater Dorothy, 649.78; Langwater Dairymaid, 631.50, and Langwater Nancy, 630.60. These cows which have outranked all others in production have, on the average, produced 13,349.18 pounds of milk and 706.78 pounds of butter fat. The American Guernsey Cattle Club was the first organization of its kind to establish an Advanced Registry on the basis of annual butter fat production. There are now 2,000 cows enrolled in this register.

The Grand Island Hereford Sale.

The sale of Hereford cattle that will be made under the management of Mousel Bros., Cambridge, Neb., and which will be held at Grand Island, Neb., on February 14th and 15th, promises to be one of the greatest Hereford sales held in Nebraska for some time. The consigners are men who have attained national reputations in the breeding of high-class cattle and they wish to assure the buyers that they will bring forth only such cattle as are fitting representatives of their respective herds. The demand for choice Hereford cattle has been such that most of these cattle would have been sold ere this at private treaty, but these men wished to make a public sale that they would have an opportunity of meeting more of the breeders and stockmen interested in this great breed of beef cattle, and at the same time place before the buyers the opportunity to select the best from the various herds and at one expense. The writer sincerely hopes that the buyers may appreciate this fact and turn out in sufficiently large numbers that these public-spirited stockmen may not be disappointed. That these cattle may sell high is not the wish of the consigners, but they would like to see a fair valuation placed upon them, and with the great number to sell the buyers are assured that they may get them on this basis, for there should be enough for all. Of the seventy head of bulls to be sold there are some that are as high class as the writer ever saw go through a sale. They are headers for any herd. The females are all selected from good foundation material, are all young and in just the right shape to go out and do a buyer a lot of good. We believe we are entirely safe when we say that we are of the opinion that a buyer may select a number of females at this sale, keep them for a matter of four or five years, establish a herd of choice cattle and at the end of that time realize on the beef market all that they would now cost. It is true that beef cattle are now high, but the indications are that they will be much higher for the next half dozen years at least. The writer has been identified with the beef cattle industry for a number of years and we do not believe that we were ever confronted with more favorable conditions for the future of the pure-bred cattle business than right now. We believe it will be a good business move to attend this sale. We would like to see the sale catalog in the hands of every good stockman and it is ready for distribution. Send for it today and mention The Homestead when you write. See page 46.

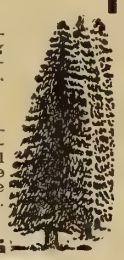
WHITING'S HARDY NURSERY STOCK

SPECIAL OFFERINGS

Don't order your nursery stock until you have seen our new catalog of special offers, more bargains, collections and premiums than ever. Better write at once.

"DAKOTA GROWN EVERGREENS"

Drouth resisting and thrifty. Famous Black Hill Spruce, the hardiest grown. Packed by our special "earth ball" system, giving the trees no check in growth. These tress will grow when all others fail.



WHITING NURSERY CO.,
Box 72 Yankton, S. D.

Seed Corn

That Will Make Good

Sold on a guarantee that you will know is good before you order. You take absolutely no chances, this is a strong statement, but it will only cost you one cent for a postal card to prove it for yourself. Don't buy until you get our catalog. Write today.

Vermilion Seed House,
Vermilion, South Dakota

SEED CORN ON APPROVAL

PURE-BRED Reid's Yellow Dent seed corn, early picked and rack dried, grown from prize-winning seed, germination perfect, shown by actual dirt tests. Satisfaction guaranteed or money refunded. Ear corn crated, $3.00. Shelled and graded, $2.50. Send for circular. Address

SMITH BROTHERS, SAN JOSE, ILLINOIS.

WIN WEALTH WITH STRAWBERRIES

Fine illustrated book tells how anyone can make big money raising strawberries. Plain and Practical tells what kind to plant in every part of the U. S. Tells of some wonderful success and how you can win. Also where to obtain most profitable varieties of plants at lowest prices. This wonderful book free. Send postal. Berry Crest, Box 191, Clarinda, Ia.

STRAND'S 1000 VARIETIES HARDY NORTHERN

GROWN TREES AND PLANTS,

They grow and please. Priced at ONE-HALF what agents ask. Send for a copy of our free catalogue today.

STRAND'S NURSERY, Box 30
TAYLORS FALLS, MINN.

Kherson Seed Oats

MOST productive in seven-year test at Iowa and Nebraska stations. Twenty bu. or more, 85c a bu.

GEO. GREGORY, RALSTON, IOWA
C. & N. W. main line.

CLOVER, TIMOTHY, Mixed Timothy and Alsike, Blue Grass, Dwarf Essex Rape, Seed Flax, Alfalfa, Barley and Oats. Seed Corn: Silver King, Early Yellow Dent. Car lots feeding Corn and Oats. Special prices for early orders. Write today. The Hofler Seed Co., Nora Springs, Ia.

OATS Regenerated Sweedish Select oats from Canadian seed. Thrashed 70 bushels to acre. Samples on request. 75 cents per bushel. **JOE KELLY, Williamsburg, Iowa.**

SWEET CLOVER SEED for winter sowing. White and yellow, cultivated biennial varieties. Best legume fertilizer, good pasture and hay. Prices and circular how to grow it, FREE. John A. Sheehan, R. D. 4, Falmouth, Ky.

SEEDS Best Grown. 10 Varieties, Burbank's Floral Gems, 10 sorts Spencer Sweet Peas and 5 Fairy Roses (seeds) all for 10c. 16 packets vegetable seeds 10c. Catalog and pkt. Giant Pansies free. **A. C. Anderson,** Box 36 Columbus, Neb.

ODERBRUCKER BARLEY Recleaned, smut treated, no oats. 85c bu. New Kherson 60-day oats. Regenerated Swedish Select oats. Thompson Bros., R. 3, Wadena, Ia.

The Bradley

This wonderful variety of strawberry thrives on all soils and in all climates. It has a fine, delicious flavor, is extra large and of a bright flame red color. It is enormously productive.

FREE Strawberry Plants

Your name on a postal will bring six plants of the famous Bradley variety to your nearest postoffice absolutely free. There are no strings tied to this offer and we want everyone possible to take advantage of it. Will also send you free our color text-book telling how to grow great crops of strawberries, also about our ever-bearing strawberries and raspberries. We have a fine, large stock of all kinds of small fruit, trees and vines. Write today. Address

BRADLEY BROTHERS, Box 5. Makanda, Ill.

Currie's Tested Seeds

yield liberal crops under normal conditions. They are tested for vitality and purity before being sold. For nearly 40 years we have supplied "worth-while" seeds.

Try These Sure

to become acquainted. One packet each of Giant Mixed Pansies, Finest Mixed Sweet Peas, Prize Head Lettuce and Twenty-Day Radish. Each collection comes in a "coupon" envelope worth 25c with future orders. A total 45c value, POSTPAID FOR ONLY **10c**

FREE Descriptive Catalog Lists all that is good in vegetable, field and flower seeds, bulbs, plants, etc. Fully illustrated. Copy free on request. Secure yours today.

Currie Bros. Co.
307 Broadway
Milwaukee
Wis.

CLOVER CHEAP Now is the Time to Buy

Prices bound to be higher later. Buy before advance and save money. Write today for special low price and free samples of our Pure Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Have alfalfa, alsike, sweet clover, all kinds grass seed. Write us now.

A. A. BERRY SEED CO., Box 103 Clarinda, Iowa

ALFALFA GUARANTEED PURE-TESTED

By Experts. Neb. Grown Non-Irrigated. Absolutely no seed better. Write for Free Samples and low prices. Our 76-page catalog sent Free giving full particulars on growing it. Valuable Book. Write

A. A. BERRY SEED CO., Box 408, CLARINDA, IOWA

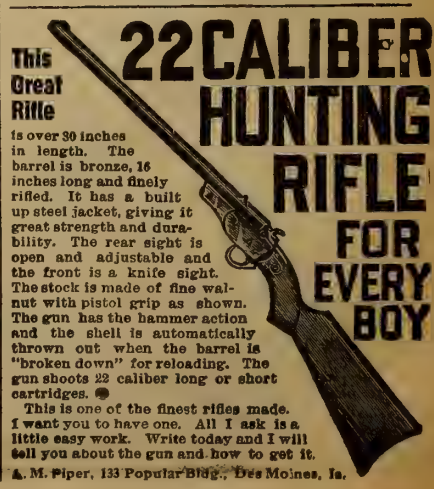
REIDS and GOLDEN EAGLE

STANDARD varieties. Sept. picked and dried on Shangers, best type and germination. Crated, $3.75, Shelled and graded, $2.75. Send for circulars.

W. C. BRYANT, PRINCETON, ILLINOIS

This Great Rifle

22 CALIBER HUNTING RIFLE FOR EVERY BOY



is over 30 inches in length. The barrel is bronze, 16 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

This is one of the finest rifles made. I want you to have one. All I ask is a little easy work. Write today and I will tell you about the gun and how to get it.

A. M. Piper, 133 Popular Bldg., Des Moines, Ia.

Lower Prices Than Ever Is My 1913 Offer

MADE POSSIBLE BY A WONDERFUL SAVING IN FUEL EXPENSE

I've cut my power bill in half—**square in half**—and made a whole lot of other big improvements besides, which mean **money to you**—money to every man who buys a Galloway Manure Spreader, Cream Separator or Gasoline Engine. Power costs money—coal comes high—fuel is one of the biggest expenses a manufacturer has to contend with. I've cut all this tremendous expense in half. I've got a new power plant using the shavings from my manure spreader factory for fuel. These shavings used to be a dead loss—today they mean **a big saving.** This new power plant means thousands of dollars cold cash saved—**the biggest cut in the cost of production I ever made.** And this great saving, which to any other manufacturer would go to boost his profits, I am going to turn right back into your own pocketbooks by **my 1913 lower-than-ever prices.**

We Make THREE Machines Today Where We Used to Make Only ONE

Right **now** I'm making **THREE** Gasoline Engines, **THREE** Manure Spreaders, **THREE** Cream Separators where I made **ONE** before—and I've got to make the **lowest prices ever heard of** in order to sell them. I'M DOING IT! That's why I want you to fill in, cut out and mail the coupon to me today, so I can send you my great 1913 price-slashing offer. It's the biggest and best proposition I have ever made—a proposition that other manufacturers dare not attempt to duplicate.

Remember Just as fast as volume goes up **down** come my prices. That's always been my way of doing business. Now get my prices—they will open your eyes. Send me the coupon. Write for my catalogs and big illustrated free books. Do it today. I want you to take advantage of my big unheard-of offer right now and

Buy a Galloway Gasoline Engine, Manure Spreader or Cream Separator Direct from the Factory and Save 30 to 50%

Besides this big slice off the price—this additional cut I'm making because of cutting my power bill in half—you always save 30 to 50 per cent on goods of better quality when you buy of me—simply because I sell direct from my factory to your farm. Not a penny goes to middlemen. You get every dollar's worth of your money in gasoline engine, or spreader, or whatever you may buy from me. It's not guesswork—it's actual dollars saved for you.

I Challenge

the trusts or anybody else to show any untruth in my statement when I say that selling through jobbers, dealers salesmen or agents adds extra profits to the cost of the goods you buy of them. **I challenge** every middleman in the country to equal the low-price, high-quality gas engines, manure spreaders and cream separators I am making and selling. I'll give the man who successfully meets this challenge **a check for $25,000** the day he does it. This money is ready, in gold, in the Blackhawk National Bank of Waterloo. When one of these smooth salesmen comes around talking tell him about this challenge. Show him how easy it is to pick up $25,000. See what he says. I know. I've got him backed off the boards—both on price and quality. They haven't got a chance—trust or no trust.

I Save You $50 to $300 On THE BEST GAS ENGINE MADE

Galloway Engines are so simple in construction that a child can run them. They are made so strong that they simply can't break or get out of order. They run so economically that they do big jobs for a few cents. They *start at a touch* even in the dead of winter. They are always *under-rated, never over-rated.* And I make you the most liberal *free trial offer* made by any manufacturer of gasoline engines. I ask you to

Use It Ninety Days Free! Let it saw wood, pump water, shred and shell, grind feed ninety days straight, 24 hours a day if you want to. Then, if you don't think it's the greatest engine you ever saw tell me so. I'll take it back; not a cent's charge for the use you have had of it. And I'll pay the freight charges to boot. If you keep it, and I know you will, I let you

Make Your Own Terms! Pay just as you like. Your credit is good with me. Just mail me the coupon and I'll send you my big Free Engine Book; also my latest price-chopping offer.

I Save You $25 to $50 on a Cream Separator

Now's your chance to get together with me on the greatest separator offer ever made—by me or anybody else. It's a chance to get a separator that's got 'em all beat when it comes to **easy running, close skimming, ease of cleaning and durability.** Here are a few facts about this

Famous Bath-in-Oil Separator of mine: It is self-oiled. The lower gears run in oil, and there is a constant spray of oil over all working parts. In addition, there are any number of points of superiority which are described in my FREE Book on Separators. Send the coupon for it. And I give you a

90 Days Free Trial Use it 30, 60 or 90 days at my risk. I don't ask you to lay down a penny until you're satisfied. Then make your own decision. But first get my offer. It's a sizzler!

I Save You $25 to $50 on a Manure Spreader

A spreader so far ahead of any other spreader made that there's no comparison. I've got the patents on the **vital parts,** the parts that mean success or failure. I want you to get my price-slashing offer on this wonderful spreader, and I want you to use this spreader itself

90 Days Free on Your Farm Right Now in the winter time! Load it with frozen manure; load it a foot above the box. Start your horses trotting. Slam in the gears. Say! you can't smash this spreader of mine! No other spreader made can handle frozen manure. **Mine will!**

It Simply Can't Be Equaled Pay for it on your own terms, and then at the end of the year, if you aren't satisfied it's been a big paying investment, just say so. I'll take it back, give you every cent of your money back, and pay you 6 per cent interest more. Now, get my special low 1913 prices. Get my book "A Streak of Gold" and decide for yourself.

Now Get This Latest 1913 Price-Making Offer—Biggest Yet

It's FREE I want you to know how I'm able to make such startling low prices. I want you to know how electricity has cut my power bill in half, and what this means to you in saving. I want to tell you how to get

Your Extra Slice Off Galloway's Melon Now, then, you're interested in gas engines, or cream separators or manure spreaders, or something else you need on the farm, and there is just *one way* for you to get my new prices. *Send in the coupon on this ad.* Send it quick. *Don't wait!* Mail this coupon to me, *personally, now!*

WILLIAM GALLOWAY, President
Wm. Galloway Co. 107 N.F. Galloway Station, Waterloo, Iowa

Get These FREE Books

These are not ordinary catalogs. They show how to cut down your expenses and make more money. I will send them to you absolutely FREE in answer to the coupon. Send for them.

"A STREAK OF GOLD"—Boiled down scientific facts on the great money value of manure. Send for it today.

Galloway's Latest Manure Spreader Book—a complete discussion of manure spreaders, pointing out what to look for, what to avoid. You need this book.

Galloway's World-Beater 50-Page Engine Book in four colors—the finest book on farm engines ever published. By all means get this.

Galloway's Wonderful Bath-in-Oil Cream Separator Book—a book chuck-full of valuable facts on the best ways of making money from dairy cows. FREE to you.

Mail Me This Free Coupon

Don't put it off. Every minute's delay means money lost to you. Get the facts of this great price-chopping offer. Get my NEW PRICES. Get my four wonderful FREE BOOKS.

YES, sir. Here's an opportunity to get in on the most startling money-saving offer you ever heard of. Put your name and address on the coupon. Tear it off. Mail it to me personally

NOW!

(10a)

FREE COUPON

Wm. Galloway, President
WILLIAM GALLOWAY COMPANY
107 N.F. Galloway Station Waterloo, Iowa

Please send me your latest price-slashing offer on Gas Engines, Cream Separators and Manure Spreaders. Also the following books which I have checked:

- ☐ "A Streak of Gold."
- ☐ Galloway's World-Beater 50-page Engine Book, in 4 colors.
- ☐ Galloway's latest Manure Spreader Book.
- ☐ Galloway's Wonderful Bath-in-Oil Cream Separator Book.

(Note: Put an X in any or all of the above squares.)

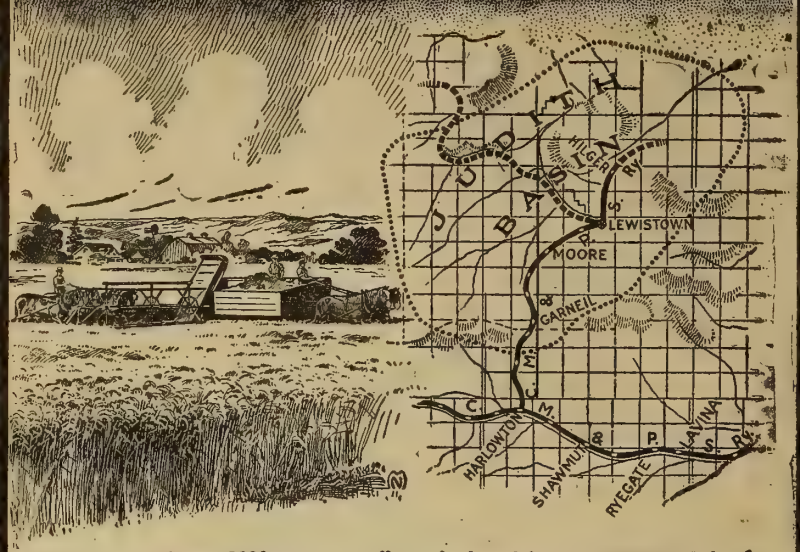
Name .....

Town ..... R.F.D. .....

County ..... State .....

I am also to get free copy of your beautiful new 5-color Gen'l Line Catalog

The JUDITH BASIN
Central Montana



Comprises about 2000 square miles of the richest agricultural land in Montana, surrounded almost entirely by a rim of mountains — is famous for its immense yields of wheat and won the prize cup at the recent New York Land Show for the best wheat grown in the United States.

Ample rainfall — fertile soil — long hours of sunlight during growing season makes this district unusually adapted for the production of all grains.

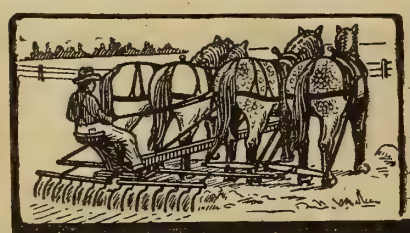
Wheat yields per acre 30 to 50 bushels, oats 60 to 90 bushels, rye 25 to 35 bushels, flax 12 to 20 bushels, potatoes 150 to 400 bushels. The richest sections of the Judith Basin are traversed by the new transcontinental line — the

Chicago, Milwaukee & St. Paul
and
Chicago, Milwaukee & Puget Sound
Railways

New lines now under construction, from Lewistown to Grass Range, Lewistown to Winifred and Roy, Lewistown to Great Falls and Chouteau, will open up a new territory equally as productive as the older sections of the Judith Basin.

Send for descriptive literature and full information

O. E. SHANER, Immigration Agent
750 Marquette Bldg.
F. A. MILLER
General Passenger Agent
CHICAGO



Vigorous Horses Make Farming Easy and Profitable.

ABSORBINE

TRADE MARK REG. U.S. PAT. OFF.

Prevents fatigue, stops pain and lameness, reduces swellings and inflammations, strengthens the muscles and ligaments and keeps out soreness. In short, enables you to get 100 per cent of the work there is in your horse and they will give it with a vigorous pleasure. Horses and men both can stand a large amount of hard work when their health is good. Absorbine will keep your horses healthy if used regularly as soon as any trouble develops. The horses can be worked while the treatment is going on.

Absorbine is a mild, pleasant liniment to use—it is healing, soothing and invigorating and a positive Antiseptic and Germicide.

USE ABSORBINE to remove **Bursal Enlargements, Bog Spavins, Thoroughpins, Puffs, Shoe Boils, Capped Hocks, Swollen, Painful Swellings** and affections; to cure any strain or lameness; to repair strained, ruptured tendons, ligaments or muscles; to strengthen any part that needs it. You can buy Absorbine at regular dealers, price $2.00 per bottle or sent to you, express prepaid with full instructions. Write me about any case on which you would like advice. Horse book 3A free. Manufactured only by

W. F. YOUNG, P. D. F., 391 TEMPLE STREET, SPRINGFIELD, MASS.

The Easy Louden Way

The harder you work the **Louden Hay Carrier** and the heavier you load it, the better it shows up. You can't break it down—years of hard service won't send the

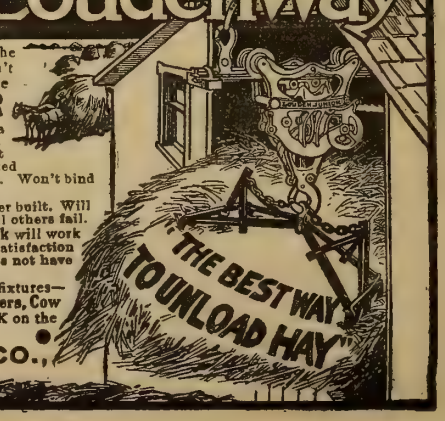
LOUDEN HAY CARRIER

to the repair shop. It lasts a lifetime. Its lock has a square catch and cannot possibly wedge or fail to work. The powerful wheel arms will never spread. All twist and kink are let out of the rope by our simple patented rope swivel, the only successful swivel on the market. Won't bind on the track, has adjustable stops.

The **Louden Balance Grapple Fork** is the best fork ever built. Will handle dry clover, alfalfa or thrashed straw where all others fail.

The **Louden Hay Carrier** and **Louden Grapple Fork** will work in any barn and handle all kinds of hay with more satisfaction than any others. See them at your dealer's—if he does not have them, write us.

Send for catalog of complete barn and cow stable fixtures—**Hay Carriers, Door Hangers, Litter and Feed Carriers, Cow Stalls, Cow Stanchions** etc.—also our FREE BOOK on the value of manure and how to care for it.



LOUDEN MACHINERY CO.,
809 West Broadway,
FAIRFIELD, IOWA

NEWS OF THE SALE RING

Paulsen's Hampshire Sale.

A splendid crowd of farmers and breeders were in attendance at the sale of Hampshire bred sows made by C. P. Paulsen, Nora, Neb., on January 25th. The large sale barn was filled to overflowing, and while a lot were simply spectators, yet a great majority of those present were there to buy hogs. The demand was brisk throughout the sale, and no doubt a great many more could have been disposed of without surfeiting the crowd. It was the first notable Hampshire sale in Nebraska and it was encouraging to the breeders of the belted hogs, for the keen demand and the widespread interest manifested goes to show that there is now a strong market for those hogs throughout the West, and the many new herds that have been started the past season as well as at this sale is another evidence that this demand will continue for some years. Probably the best bargain of the sale was Lot 1 of the catalog. She was Golden Maid 3d by Clare's Duke and out of the great breeding sow, Golden Maid. She was a show sow of the right order and comes of a family of show stock. She was purchased by A. J. Dvorak, Madison, Neb., at $180. R. D. Fentirmen, Elmwood, Neb., was also a liberal buyer and a bidder on all the good ones and was a contending bidder on Lot 1. J. E. Harding & Son, O'Neill, Neb., were also after the better ones and were among the heavy buyers of the sale. Colonels Reppert and Mason conducted the sale, assisted by Colonels Teeters and Littell. Colonel Reppert has acquired a great reputation as a seller of Hampshires, having made nearly sale of note of the breed. Colonel Mason acquitted himself with distinction in this particular sale. Those selling for $45 or more are listed:

1. A. J. Dvorak, Madison, Neb. $180.00
3. A. L. Reichsteim, Campbell, Neb. 60.00
4. W. V. Harvey, Culbertson, Neb. 75.00
5. Wm. Ahrens, Sedan, Neb. 60.00
6. Wm. Lowery, Davenport, Neb. 51.00
7. Kissinger & Hill, Fairfield, Neb. 110.00
8. J. E. Harding & Son, O'Neill, Neb. 80.00
9. J. E. Harding & Son. 87.50
10. A. L. Reichsteim. 60.00
11. M. Nelson, Ruskin, Neb. 56.00
12. W. A. Richmond, Utica, Neb. 31.00
13. Emil Imhoff, Guide Rock, Neb. 50.00
14. R. D. Fentirman, Elmwood, Neb. 72.00
15. W. V. Harvey. 68.00
16. A. L. Diehl, Benedict, Neb. 66.00
17. Kissinger & Son, Fairfield, Neb. 100.00
18. H. P. Bereck, Dannebrog, Neb. 48.00
19. J. E. Harding & Son. 80.00
20. Kissinger & Hill. 100.00
21. R. D. Fentirman. 69.00
23. F. S. Manning, Friend, Neb. 50.00
24. David Cassell, Ong, Neb. 50.00
25. Wm. Imhof, Upland, Neb. 55.00
27. H. Edson Winder, Alexandria, S. D. 57.50
28. R. C. Meader, Fairfield, Neb. 52.00
29. A. L. Diehl. 70.00
31. R. L. Bollman, Coal Valley, Ill. 57.50
33. A. L. Reichsteim. 54.00
34. D. H. Kalkwarf, Bruning, Neb. 62.50
35. A. R. Anderson, Audubon, Iowa 59.00
36. J. F. Sladek, Western, Neb. 65.00
37. David Cassill 51.00
38. D. L. Hallquist, Stromsburg, Neb. 53.00
39. J. F. Sladek. 65.00
40. E. E. Wilcox, Rolfe, Neb. 45.00
41. L. J. Roush, Nora, Neb. 61.00
42. Kissinger & Hill. 57.00
43. Roy Haggart, Mankato, Kan. 50.00
44. Wm. Imhof 46.00
45. J. E. Harding & Son. 53.00
46. W. R. Dyas, Fairfield, Neb. 63.00
47. Wm. Imhof 50.00
48. W. A. Richmond. 47.00
49. C. E. Mumma, Decatur, Ind. 47.00
54. David Cassill 45.00
55. J. E. Harding & Son. 80.00
56. Billie McFarland, Syracuse, Neb. 50.00
57. W. J. Miller, Beaver Crossing, Neb. 53.00
58. F. S. Manning. 57.50
59. W. R. Dyas. 51.00
60. R. D. Fentirman. 51.00
61. R. C. Meader. 55.00
63. Mike Sharp, Coal Valley, Ill. 60.00
65. Wm. Imhof 50.00
66. W. J. Miller. 48.00
67. J. M. Littell, Cadams, Neb. 50.00
69. C. F. Striggow, Davenport, Neb. 51.00
71. D. L. Hallquist. 53.00
72. Henry Sydow, Stanton, Neb. 56.00
73. Emil Imhof 57.00
76. A. L. Reichsteim. 50.00
77. W. R. Dyas. 51.00
80. O. J. Morris, Benedict, Neb. 46.00
81. Roy E. Fisher, Winside, Neb. 51.00
83. Thos. T. Nichol, Poole, Neb. 53.00
85. Clinton Carrison, Osage, Ia. 45.00
87. J. W. Bookwalter, Bookwalter, Neb. 53.00
89. Roy E. Fisher. 45.00
91. Wm. Imhof 51.00
92. C. F. Prange, Malmo, Neb. 59.00
93. Hans Dall, Ruskin, Neb. 47.00
94. D. L. Hallquist. 46.00
95. Chas. Imhof 47.00
96. Chas. Imhof 51.00
97. J. S. Kincher, Guide Rock, Neb. 46.00
100. C. A. Wurgler, Guide Rock, Neb. 50.00
101. Ennis Scott, Anselmo, Neb. 50.00

The average on the ninety-three head sold was $55.26.

Marts' Duroc Jersey Sale.

B. C. Marts, Hampton, Iowa, held his annual sale of Duroc Jerseys on January 22d and made a very successful sale. W. Golly, Zearing, Iowa, topped the sale on No. 1, an extra good show sow by Chief's Model, at $125. The prices ranged from $30 to $100 and it was an even sale all through. Mossman Bros. did the selling in a very creditable manner. A list of the sales follows:

1. W. Golly, Zearing, Iowa.....$125.00
2. R. M. Skillen, Green, Iowa.. 71.00

CURES LAME HORSES

While They Work
Without Leaving a Scar or Loss of Hair.

Mack's $1000 SPAVIN REMEDY

The Only Spavin Remedy in the World Sold Under a $1000 Bond.

FOR SPAVIN, RINGBONE, THOROUGHPIN, CURB, CAPPED HOCK, SHOE BOIL, SPRUNG KNEE, LACERATED AND RUPTURED TENDONS, SWEENY, ETC., it is **unsurpassed, frequently imitated, but not equalled.**

OUR FAITH is such that we can afford to **GUARANTEE MACK'S THOUSAND DOLLAR SPAVIN REMEDY** and furnish with every bottle a **$1000 WARRANTY BOND,** which insures to you the return of your money if the **results** from its use are not **entirely satisfactory,** and if it does not **overcome** all forms of **lameness,** from whatever cause.

Your Remedy Is a Wonder

Milwaukee, Wis., Mar. 21, 1912.
McKallor Drug Co., Binghamton, N. Y.
Dear Sirs:—I wish to advise that I have **entirely cured** the Curb on my driver in less than **three weeks with your Mack's Thousand Dollar Spavin Remedy.** It is all you claim it to be, and is the **best** remedy I have ever used.
Yours very truly,
Wisconsin Lakes Ice & Cartage Co.
Per Jos. G. Meyer, Supt.

FREE Veterinary Advice

We have associated with us a Graduate Veterinarian to answer all questions regarding lameness in horses, free of charge. Mark a cross on picture of horse showing where lameness is located and cut out and mail same to us. You will receive instructions how to cure the trouble. If your druggist can't supply Mack's Thousand Dollar Spavin Remedy remit price direct to us and we will send at once, prepaid. $5.00 per bottle—and worth it. Accept no substitute. Our valuable book, "Horse Sense," sent free to any address.

McKALLOR DRUG CO., Binghamton, N. Y.

LET THIS SURPRISING ENGINE SOLVE YOUR HELP PROBLEM

Does **several men's work**—at less than cost of a **boy. Surprising,** the amount of **farm "drudgery"** this **marvelous little engine** will get **away with.** Separates cream, grinds feed, cuts ensilage, saws wood, shells corn, waters stock, washes buggy—the family clothes—almost **anything you want. Handy, practical, easy to operate—a quick starter** and **steady runner—excess power above rating—convenient, too—with trucks, located anywhere. Fuel—gasoline, kerosene, distillate or gas.**

THE T & M Farm Engine

is a REAL ENGINE—sold at **far too low a price, considering quality**—backed by the nearly **16 years' practical engine experience** of a **reliable firm**—sold on a REAL GUARANTEE, gilt-edge to **you** and iron-clad to **us.** Don't struggle with the "hired man problem" this season—when the T & M **will attend to it for you.** LET US SHOW YOU how this **"everlasting," reliable engine** (1½ to 20 h p) will deliver you **more power** and **greater value** in **every respect** than you **pay for. Spring work is coming—write,** NOW, for catalog and prices.

Termaat & Monahan Co. 12 **S. River St. Oshkosh, Wis**

Don't Have a Blind One

If Your Horse Has Eye Troubles Use "VISIO"

An Absolute Cure For MOON BLINDNESS

(Opthalmia) Cataract and Conjunctivitis

Shying horses all suffer from diseased eyes. "Visio" will convince any horse owner that it will absolutely cure defects of the eye, irrespective of length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "Visio" under our *guarantee* to refund money if it does not cure.

$2.00 per bottle, postpaid on receipt of price.

VISIO Remedy Assn., 2458 **Calumet Ave., Chicago, Ill**

3.	H. S. Fain, Emetsburg, Ia.	55.00
5.	A. E. Mallory, Hampton, Ia.	50.00
6.	E. Whitehead, Hampton, Ia..	50.00
8.	R. L. Roberts, Hampton, Ia..	38.00
9.	S. Hicks, Hampton, Iowa....	54.00
11.	B. Roberts, Hampton, Iowa..	52.00
13.	W. Baker, Hampton, Iowa..	42.50
15.	W. Baker	57.50
16.	M. E. Merfield, Greene, Iowa	65.00
19.	M. H. Roberts, Waverly, Ia.	41.00
22.	L. H. Chance, Iowa Falls, Ia.	52.50
23.	S. Hicks	57.50
24.	W. B. Barney & Son, Hampton, Iowa	57.50
25.	R. M. Skillen.....	50.00
26.	A. E. Mallory.....	52.00
27.	W. B. Barney & Son.....	45.00
32.	F. Hensing, Macey, Iowa....	45.00
34.	G. B. Gist, Zearing, Iowa...	50.00
35.	E. F. Scholtz, Canton, Minn.	53.00
38.	M. E. Merfield.....	50.00

SUMMARY.

40 head .....$1,808.50; aver.....$45.40

Rude & Son's Duroc Sale.

Quite a good crowd attended the R. Rude & Son sale at Moorehead, Iowa, on January 22d and they disposed of forty-one head of Durocs at an average of $39. They put up a splendid lot of sows in excellent condition, and while the prices were not high, yet they were very satisfactory. Col. N. G. Kraschel cried the sale. Below we list those selling for $35 and above:

1.	J. J. Elliott, Moorehead, Iowa..	$37
2.	Caine Bros., Odebolt, Iowa.....	42
3.	Thos. Foss, Sterling, Neb.....	60
4.	W. W. Scholes, Onawa, Iowa...	39
5.	Caine Bros.	43
6.	G. H. Moorehead, Moorehead, Ia.	49
8.	Caine Bros.	39
9.	John Hedum, Moorehead, Iowa.	56
10.	J. J. Elliott.....	43
11.	L. D. Winnegar, Moorehead, Ia.	44
12.	Thos. Olson, Moorehead, Iowa...	40
13.	Thos. Olson	45
16.	F. E. Lee, Moorehead, Iowa....	44
15.	W. W. Scholes.....	46
18.	G. B. McAndrews, Vail, Iowa...	46
22.	Caine Bros.	40
23.	A. L. Coberly, Moorehead, Iowa.	51
25.	J. D. Isaac, Red Oak, Iowa.....	36
26.	I. W. Serber, Moorehead, Iowa..	40
28.	G. H. Moorehead.....	44
27.	G. P. Outhouse, Moorehead, Ia.	35
33.	Thos. Olson	51
34.	G. B. McAndrews.....	40
37.	Caine Bros.	35
39.	Caine Bros.	36
44.	J. J. Elliott.....	41

ADDITIONAL FIELD NOTES.

Jones' Big-Type Sale.

On Monday, February 10th, at Dunlap, Iowa, A. D. Jones will sell seventy head of his great big-type Poland China brood sows, and he has about as much of the blood of the great big ones as any other breeder in the central West. In fact, there are few catalogs that you will look through where you will find as much strictly large-type breeding as Mr. Jones will list for this sale. He is selling three daughters of old King Mastodon in this sale, also daughters of the 1,000-pound Miller's Tecumseh, Long Choice XX., Orange Price, J.'s Dry Creek Wonder, Miller's Chief Price, and these are all out of dams bred by John Miller and Peter Mouw. These will be bred to such noted boars as J.'s Dry Creek Wonder, Orange Price, Miller's Tecumseh, Mohawk Chief, Long Choice and a young boar sired by Miller's Tecumseh. There isn't a sow or a boar used in his herd that does not trace in all their lines to the strictly large-type breeding. He is selling six head of his very best tried sows and the remainder will be yearlings and spring gilts. There will be six very excellent spring yearlings, forty-five big summer and fall yearlings and the balance will be large spring gilts. There will be sixteen head of daughters and granddaughters of old Minnie Fair in the sale, and she was one of the greatest sows of the breed. These will mostly be bred to J.'s Dry Creek Wonder, one of the greatest boars today in western Iowa. Many of the sows in his sale will carry four crosses of old Chief Price, others to Miller's famous Dry Creek Chief and Choice by old Chief Leader, Long Price by Mouw's Longfellow and other famous sires. Mr. Jones offers a good line-up of strictly big-type breeding and if you want that kind you will be interested in this sale. Write for his catalog and mention The Homestead. Bids sent to C. C. Carlin or M. T. White, in care of Mr. Jones, will be looked after on day of sale. See advertisement on page 44.

Peery's Poland China Sow Sale.

J. M. Peery, Alvord, Iowa, holds his sale of big-type Poland Chinas on Friday, February 14th, and closes one of the grandest circuits of brood sow sales of the year with an offering that is as distinctive as one would expect from a practical hog man whose hogs were always good ones. Right here we would like to have it understood that Mr. Peery should have the same crowd as that which shall attend any of the other sales, because of the sows he will sell. In his experience as a breeder he has sold sows to breeders of discrimnation and not yet has he failed to please. The output of one practical man is certain to please another practical breeder and Mr. Peery is certainly right in that class. His sows show it, his whole herd shows it. He enjoys the confidence and trade of his neighbors because he breeds that which suits their needs. Since this is the object of all breeding, Mr. Peery's herd is given one of the strongest recommendations that it could have. The blood lines are the popular and profitable kind, as the catalog will show. The herd boars are Peery's Long Orange by Big Orange, out of Long Kit by Beauty's Jumbo, making him a full brother to that other big-boned sire, Bloemendaal's Big Black Jumbo. He is a proven sire and a good boar. Jessie's Chief by Lyon Chief, dam Gentle Jessie, one of Mr. Barker's greatest brood sows, is a full brother to Mondamin Master, the boar owned jointly by Held Bros. and E. S. Barker, and the sire of the futurity pigs which won first at Des Moines last fall. He is a big boar and one that breeders will like. His dam is by King Dodo. Peery's Expansion by Great Expansion, a show boar, and out of a Chief Price sow by Orange Chief is the third of the boars and completes an exceptionally good trio. The sows represent the best of the big type and are thrifty, in the condition one expects a brood sow to be to go any place and pay out well on the money invested. Be sure to look this offering up in your search for sows to fill out your herd. When you write for catalog mention The Homestead. Ray L. Gribben is the field man and will handle your bids conscientiously. Address J. M. Peery, Alvord, Iowa. See advertisement on page 42.

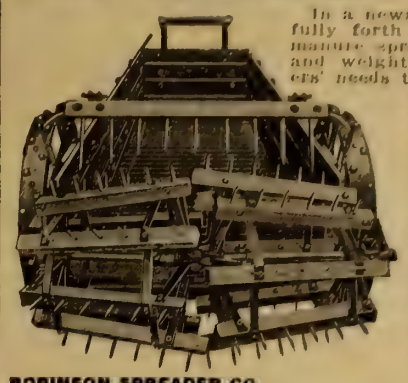
Koenig's Great Duroc Sale.

One of the most constructive breeders of Duroc Jersey hogs in Nebraska is H. H. Koenig, DeWitt, Neb., and a young breeder who has profited much by his example is Chas. H. Koenig, Plymouth, Neb. These gentlemen will make a sale of Duroc Jersey bred sows at the farm of the former on February 13th. It will be an offering that will contain many high-class hogs, in fact, many of them are outstanding. They are the get of good sires and mated with good boars. Chas. H. Koenig consigns about fourteen head to the sale and they are all the get of Advancer Chief by Chief Advancer except one, and this boar also sired a few that went in the sale a year ago and were among the tops of the offering. The great boars, A Crimson Wonder by old Crimson Wonder, Belle's Chief by Red Chief I Am, Echo's Chief by Echo Top King and a few others are the sires of most of the offerings. They are mostly bred to King's Crimson Wonder and Red Model and a son of H. A.'s Choice Goods. King's Crimson Wonder we will have to mention in particular, as we consider him one of the greatest young boars of the year. He was the top pig in the Beem dispersion sale and we have long regarded him as one of the best we knew of. He is remarkably heavy boned. One of the two heaviest bones we know of, and he is smooth and well finished. He was sired by I Am A Crimson Wonder 2d and out of the champion sow, Current Blossom. Red Model is a son of Golden Model and out of Miss Hope, making him a full brother to the great sow, Model Queen. Red Model was used extensively in the herd of John Bader, Scribner, Neb., and sired a great line of stuff for that gentleman. The writer would like to see a good gathering of breeders at this sale, as we believe these hogs will please those looking for good ones. It is the last sale of the circuit for that week, following the sale of J. C. Theobold, Obiowa, Neb. If you do not have the catalog send for same at once. Mention this paper when you write. See page 44.

Weaver's Duroc Jerseys.

S. L. Weaver, Lake Park, Iowa, holds the third sale of the Northern Iowa Duroc Jersey Circuit at the farm, three miles southwest of Lake Park, on Thursday, February 6th. He will sell forty-two head of sows, but contrary to the usual arrangement has for a majority of his offering tried sows, the gilts numbering only eighteen to the twenty-four head of older stock. Mr. Weaver has been breeding Duroc Jerseys quietly for a few years and his son, S. C. Weaver, has been the active member of the firm of Weaver & Fountain, of Montgomery, until last fall. This offering will include sows from both the Weaver, Sr., and the Weaver & Fountain breeding. Perhaps one of the leading characteristics of both these herds has been the fact that the hogs have been kept on the place for purely business purposes and have had to pay their way in a practical manner. This always means that the sows are big and stretchy, the litters they farrow must be large and the sow capable of raising them, or she goes to the market. Because it has been stated that the herds have been managed along these lines does not bar the use of good breeding, and it does mean the selection of good individuals for herd-heading purposes. Both the Weavers have chosen the best from herds with which they were acquainted, an example being the old herd boar now at the head of the breeding list, Okoboji Col. He is by Palo Alto Col. by Col. Stoner by King of Cols. and out of a sow by Inventor and second dam by Proud Advance. As mentioned in last week's paper, the other young herd boars are also well bred, coming from some of the best herds in the country. Helen's Chief Col. came from H. E. Browning's herd and represents some of his best blood. The distribution of the breeding is as follows: Ten aged sows bred to the prize-winning old boar, Okoboji Col. 104819, eight aged sows and gilts bred to Helen's Chief Col. 116265, thirteen bred to Crimson Wonder Perfection by Crimson Wonder Again, two gilts by Crimson Wonder Again bred to Queen's Col. and nine bred to Imperial Crimson Wonder by Crimson Wonder Again. Write for catalog, mentioning The Homestead. Ray L. Gribben will represent The Homestead at the sale. Address S. L. Weaver, Lake Park, Iowa. See advertisement on page 49.

The Spreader That Spreads.



In a newspaper advertisement we cannot set fully forth the merits and advantages of this manure spreader. Its size and style and width and weight make it more suitable to the farmers' needs than any other on the market. It has a capacity of 60 cu. ft. It is low and easy to load, the front and hind wheels track with each other and track with a farm wagon. Being narrow, it is handy to drive into a barn and easy to back into a shed. Its weight is 1,420 lbs. and two good farm horses handle it easily under all ordinary conditions. Its operating parts are simple, strong and serviceable, guaranteed to do the work a manure spreader is intended to do. The sectional cylinder rotates outwardly and spreads to the width of the wheel tracks. It is an ideal spreader. Your implement dealer should handle it. Write for our latest folder describing it. Address

ROBINSON SPREADER CO. - - - - - VINTON, IOWA

LAND AND HOMES FOR SALE

NEW YORK FARMS BEST

And cheapest. Anyone of the following low-priced improved New York farms and 100 others for sale will average better and bigger crops than your own home farm. All our farms have good comfortable houses, big barns and numerous outbuildings and are worth double the price asked today.

456 acres, near Syracuse, $65 per acre.
145 acres, Madison county, 52 per acre.
220 acres, Madison county, 50 per acre.
185 acres, Seneca county, 60 per acre.
210 acres, Wayne county, 87 per acre.
200 acres, Chenango c'ty, 32 per acre.
211 acres, Oneida county, 48 per acre.

For complete descriptive list, address **B. F. McBurney & Co., 703 Fisher Bldg., Chicago, Ill.**

Wealthy Banker Retiring, Must Close out Homestead, Stock, Tools

166 ACRES rich bottom farm, 2 houses, 4 barns, ice house, silo, shed, fruit, abundance of water, basement barn, concrete floors. A big money-maker. 24 Holstein cows, 1 bull, 1 horse, wagons, hay, straw, ensilage, tools, ensilage cutter, power, many other tools. All for $12,000. Part cash.

Hall's Farm Agency, Owego, Tioga Co., N. Y.

FINE STOCK AND DAIRY FARM

IN RED CLOVER BELT. Fine quarter section 6 miles southwest from Ogilvie, Kanabec county, Minnesota, for sale. Seventy miles from Minneapolis, good house and barn, lots of meadow, running water and plenty of fuel. Price $40 per acre. Must be sold within thirty days. Write or call on **STATE BANK OF OGILVIE, Ogilvie, Minn.**

261 ACRES 261

NO better corn, wheat, clover and blue grass farm. Superior improvements, excellent water supply, beautifully located on Cross-State highway, only 3 miles from county seat. Write for full description. Price $120 per acre. Hamilton & Crenshaw, Box 2, Fulton, Missouri.

LAND BUYERS ATTENTION!

In order to close up estate must sell fine Iowa county farm, located ¾ mile from shipping stations on 2 railroads. Reasonable price. Deal direct with owners. For full information call or address Henry G. Maas, 1223 Rochester Ave., Iowa City, Iowa.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address **The Allen County Investment Co., Iola, Kansas.**

Eastern Kansas Bargains

200 A. 4 mi. to good town, 90 mi. to Kansas City. Finely improved. A snap at $45 per acre for quick sale. **Sewell Land Co., Garnett, Kan.**

CENTRAL MISSOURI Write for list of corn, wheat, clover and blue-grass farms that will prove profitable and satisfactory for homes and investments. Farms described and priced. Hamilton & Crenshaw, Box 3, Fulton, Mo.

FOR SALE 400-acre stock farm, good soil all tillable; improvements above the average; 3 miles from county seat, population 7,500. For price, terms and full description. Address owner, G. C. Shrader, R. 5, Austin, Minn.

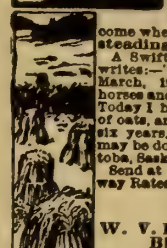
MINNESOTA has a home for you. Good land at low prices. Literature giving information about soil, climate, price of land, etc., sent free on application to H. J. Maxfield, Commissioner of Immigration, Room 208, State Capitol, St. Paul, Minn.

MRS. FARMER! Have your husband write for our free literature on choice Northern Minnesota Lands near Duluth. Land Com'r., D. & I. R. R. R., 116 Wolvin Bldg., Duluth, Minnesota.

YOUR OPPORTUNITY
Is NOW In the Province of
SASKATCHEWAN
Western Canada

Do you desire to get a Free Homestead of 160 Acres of that well known Wheat Land? The area is becoming more limited but no less valuable.

New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homesteading land left.



A Swift Current, Saskatchewan farmer writes:—"I came here on my homestead, March, 1906, with about $1000 worth of horses and machinery, and just $35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 60 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta.

Send at once for Literature, Maps, Railway Rates, etc., to

Frank H. Hewitt, Des Moines, Iowa.
W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.
R. A. Garrett, 315 Jackson St., St. Paul, Minn.

or Address, Superintendent of Immigration Ottawa, Ont., Canada

MISSISSIPPI

FOR SALE—3,555 acres of good hill cotton land, now in successful operation; well supplied with good negro labor. The plantation lies between two branches of the Illinois Central R. R.; nearest shipping point 4 miles from the dwelling. The land corners within ¾ mile of the shipping point. A sufficiency of cabins for tenants, stables, cribs, cotton pens, and all outhouses; 36 head of mules and horses, cows, farming implements and feedstuff; Price very low; terms good. Address **A. C. LEIGH, Grenada, Mississippi,** bona fide owner.

CHEAP LANDS. SURE CROPS. Two essentials to success found in the upper Wisconsin counties. They are nearer the great markets than any other good cheap lands. Suited to general and special farming. Dairying, sugar beets, peas, potatoes, clover seed and other crops bring handsome returns. **Wisconsin Advancement Association, 317 Caswell Bldg., Milwaukee, Wis.**

FARM BARGAINS 400 a., 4 mi. to county seat, east Kansas, 175 a. in cult., all tillable, 50 a. in tame grass, 120 a. in blue stem meadow, black loam soil, fenced, 15 a. in pasture, two sets improvements, 6-roomed house new, barn 40x60, also tenant house and barn, sheds, etc., two good wells, near school and church. Will exchange for southern Ia., or Ill. Price $24,000. **SEWELL LAND CO., Garnett, Kansas.**

RENTERS NOTICE

80 ACRES, improved, $3,600; 80 acres, improved, $3,300; 80 acres, improved, $2,800. From $500 to $800 down, balance like renting, will handle either of them. Renters, why rent? Men of limited means, your opportunity. Possession this spring. Come at once. Call on or address, **The Allen County Investment Co., Iola, Kansas.**

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

NEW YORK STATE FARMS FOR SALE

FARMS in central New York in Oneida and Madison counties, in the heart of dairy district, for sale, from $10 to $60 per acre. Can arrange mortgage loans for half the purchase price at 5%. Address **E. L. HUNT, - Oneida, New York.**

IRRIGATED LAND

$45 and $50 an acre. Eight year payments. Perpetual water rights. Big crops each year. County seat. Literature approved by state officials. Write us now. Address **Wyoming Development Company, Wheatland, Wyoming.**

ARKANSAS LAND $10.00

BETTER, $16; extra choice $20; $1.50 per acre down; 6 per cent on balance; booklet describing lands free; level land; no overflow; no negroes; no rocks. **George R. Lochrie, Gifford, Arkansas.**

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

SECURE CASH for your property. No matter where located. To buy or sell write for particulars giving full description. National Property Salesman Co., Dept. 7, Omaha, Neb.

A BARGAIN FOR SALE. 160 acres, all broke, 1½ miles east of Sherwood, N. D. For particulars write P. McIntyre, Williston, N. D.

Purchase a Southern Farm

Prices range from $10 an acre up. Nature favors you with big crops, ample rain, mild winters, enjoyable summers. Social, religious, and school privileges the best. Beef, pork, poultry, sheep, and dairying pay handsomely. Large profits in alfalfa, truck, corn, cotton, nuts and apples. Great **industrial openings** in all parts of the South. "Southern Field," state booklets and all facts free.

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REGISTERED SHROPSHIRE RAMS

FROM best imported stock. Fifty head rams to go at quick sale from $15 to $25 each. These are thrifty, weigh up good, and include lambs, yearlings and a few two year olds. Will also offer a select lot of ewes. **Angus cattle of best types for sale at all times.**

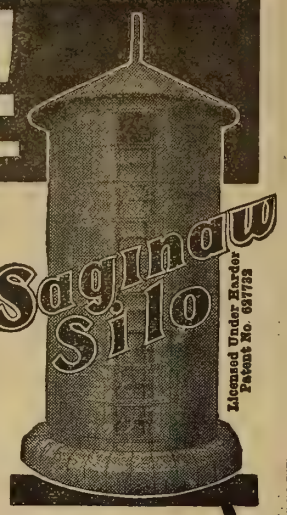
A. C. BINNIE, - - Alta, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address **H. H. REED, - MARENGO, IOWA.**

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable. **Willard Miller, R. F. D. No. 2 Aulta, Iowa.**

Wonderful!



The New 1913 Saginaw With the Patented Angle Steel Rib

Last season's Saginaw Silo was pronounced **utterly perfect** by dairymen and stockmen all over the country. For 1913 it was wholly unnecessary to attempt improvement. Yet, despite this, we come out with this 1913 Model. The big feature of the 1913 is the **ANGLE STEEL RIB.** This ingenious invention adds about 50 per cent to the life of a Silo. And that's wonderful, when you consider that the Saginaw is already known to be the strongest and most durable Silo ever built.

Doing the "Impossible"

The Angle Steel Rib has done what other Silo makers only a year ago considered impossible. It has given you Dairymen and Stockmen a Silo which the heaviest wind storms can't even SHAKE or TILT. All because the Angle Steel Rib absolutely prevents any up-and-down slipping of the staves. Moreover, this marvelous invention forever ends the remote possibility of your Silo caving in when empty.

This Angle Steel Rib is a Structural Steel Reinforcement, curved to the circle of the Silo. It is slidingly received in strong, malleable brackets which are securely attached to alternate staves. Each rib is free to move and adjust itself to any variation in the diameter of the Silo. Built on the same structural principle as the big "I" Beams used in giant steel frame buildings. One flange reinforces the other.

Think what it means to have these trustworthy, unbendable Angle Steel Ribs encircling your Silo! To fully appreciate the patented Angle Steel Rib, you must get our new free Silo Book, which pictures and explains all.

Other Noted Features

The Saginaw was famous first as "The Silo With the All-Steel Door Frame." Then followed the **Saginaw Inner Anchoring Hoop.** Next came the celebrated **Saginaw Base Anchor.** And now comes the **Angle Steel Rib**—the most astounding feature of all.

5 Big Factories

The Saginaw is far the most popular Silo on the market. Five mammoth Silo factories have had to be built. Last season we received orders for 587 Silos in a single day.

Strong as a Skyscraper

The Saginaw Silo, with its steel frame, stands as solid as a modern city skyscraper. It cannot blow down; it cannot twist; it cannot warp; it cannot collapse; it cannot shift on its foundation. Like a Giant Oak, it is rooted to the ground by the Saginaw Anchoring System.

Bright, Clean Silage

No rank, soured silage ever comes out of a Saginaw. It is sweet and pure clear to the edges, right next to the walls. Animals love the enticing flavor and thrive wonderfully on the rich, succulent food. Don't get a Silo that spoils silage.

Get Latest Silo Book

Our latest Book on Silos is about ready for mailing. It not only fully describes the 1913 Saginaw, but also contains a Wealth of Information on Silo Building and Silage. Don't miss getting it. Drop us a line today for Booklet 34 and you will receive it, free and postpaid, **by return mail.** Address our nearest factory,

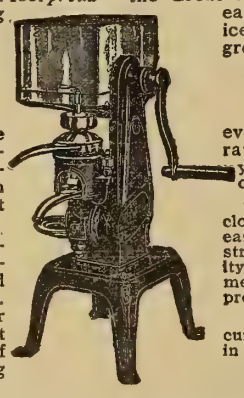
FARMERS' HANDY WAGON COMPANY

Saginaw, Mich. Des Moines, Iowa Minnesota Transfer, Minn. Cairo, Ill.
The McClure Co. of Texas, Ft. Worth, Texas

YOU WILL BE GLAD 730 Times a Year— That You Selected A GREAT WESTERN

Twice a day—730 times a year—for a *lifetime* — you'll be mighty glad you chose a *Great Western* Separator instead of any other.

Whenever neighbors are around while you skim—or when you happen to be at your neighbor's when he is skimming with some other make—you'll feel *proud* of *your* judgment in selecting a *Great Western.* You'll realize then, what Great Western



Quality

means to you. You'll realize what it means in close skimming, easy turning, easy cleaning and in bigger profits from *quality* cream and butter. Let us tell you the facts.

The Great Western *bowl* follows nature's laws by delivering the *cream* from the *top* and the *skim milk* from the bottom. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming COLD milk.

The bowl of the Great Western is self-draining and self-flushing. There are no long tubes, no minute slots, nooks, corners, crevices or ragged edges to hold milk and collect dirt.

The Great Western is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50% to 100% harder than balls others use.

The ball races in the Great Western are tempered so hard that you cannot cut them with a file. That is why the Great Western beats them all for easy running and long service—why it is positively the greatest and undisputed

Value

ever offered in a cream separator. We will arrange to give you any kind of a trial you want on any size Great Western.

Test it yourself on every point, close skimming, ease of turning, ease of cleaning, sanitary construction, quality of cream, quality of butter and every feature that means durability—the most cow profits for the longest time.

Our 5 year guarantee and Security Bond prove our confidence in the Great Western.

Write Us Now

Let us send you our big book on more dairy profits. See how you can make from $10.00 to $15.00 more each year from every cow you milk. See the only separator that follows natural laws. The only separator cleaned in a jiffy. Skims warm or cold milk to a trace.

Write for our fine book today.

Rock Island Plow Co., 1816 Second Avenue Rock Island, Illinois.

DES MOINES SILO

Built for Permanence

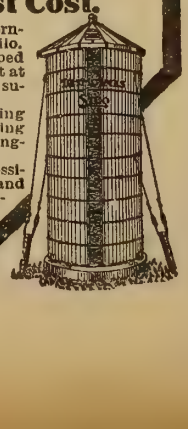
First Cost Is the Last Cost.

Creosote dipping adds, according to Government reports, 17 to 20 years of life to the Silo. That is the reason the Des Moines Silo is dipped in creosote. A special dipping plant was built at great cost to add this feature to the already superior construction of the Des Moines Silo.

The creosote penetrates into the wood covering every check and going deep—making the wood absolutely impervious to moisture, thus preventing rot and in a large measure overcoming the shrinkage and swelling due to changing atmospheric condition. It is never necessary to paint the Des Moines.

Des Moines Silos are equipped with spring lugs that overcome the last possibility of the hoops becoming loose. The Des Moines Triple Anchor System and three inside hoops are the best in the world. Positive insurance against damage by wind. Other buildings may go but the Des Moines Silo will stand.

The story of the Des Moines Silo is told in a book that will be sent free.



DES MOINES SILO & MFG. COMPANY
507 New York Avenue Des Moines, Iowa.

DAIRY

MAKING GOOD BUTTER.

Good butter cannot be made from foul milk. Therefore, the man who does the milking should take every precaution to keep the milk free from all impurities. The best butter is made from separator cream. Milk that must sit for a long time for the cream to rise is apt to become foul and taint the cream. Then there is the handling which must necessarily be done and often results in letting impure particles into the cream.

The cream should be kept sweet up to the time of ripening. Good butter is made from sour cream. Cream may be soured more quickly with a starter. This is nicely soured milk which has formed into a solid curd pleasant to the taste and mildly acid and easily broken up when poured from one vessel to another. Use one-tenth as much of the starter as you have cream and stir thoroughly into the cream and keep the cream to an even temperature and it will sour in twelve or fourteen hours.

All materials to be used in churning and making butter should be thoroughly cleansed. The churn should be scalded out thoroughly and rinsed with cold water. All ladles, prints, etc., should be rinsed in boiling water then in cold water. The surface of the wood will thereby become hardened and the butter will not adhere to it. The brick-shaped print is the best to use, as the butter from them is more easily packed and customers prefer it.

When the cream has soured it should be put into the churn—the barrel churn is preferable—and revolve slowly. If the handle is turned too fast the centrifugal force will keep the cream from falling and churning takes place. If the cream was the right temperature when put into the churn the butter will come in half an hour or less.

When the granules are the size of peas the churning should stop and the buttermilk should be drained off. Then sufficient water should be poured into the churn to wash the butter well. The water may be brought in contact with every particle of butter by a slow revolution of the churn. Drain the water off and add the salt. An ounce of salt to a pound of butter is the usual amount. One gallon of good cream will make two pounds of butter, so there will be no trouble to determine the amount of salt to put into churn. Revolve the churn a time or two after putting in the salt, then let it stand for a few moments or until the salt has melted.

Butter should be worked until all the water is out of it. The firmer the butter the more it can be worked. When it assumes a waxy condition and shows no sign of moisture it is ready to be molded. If the first working does not not remove all water, the butter should be placed in a cool cellar or ice chest until it becomes firmer then worked again. If all milk and water is removed, the butter will keep a long time without spoiling. After the butter has been molded it should be placed in a cool place, and when ready to take to market cover with parchment paper. An attractive pound of butter is half sold, but good, pure butter will always sell.

THE CITY MILK SUPPLY.

To the Editor of The Homestead:

The solution of the problem of an improved city milk supply includes education, legislation, co-operation and regulation.

The needs are to educate both producer and consumer, the one as to cleanliness, health of cows and milkers—water supply and environment—to offer a premium on clean milk and a penalty on dirty milk. Typhoid fever, diphtheria, scarlet fever, tuberculosis and infantile paralysis may be transmitted by milk. Pasteurization, properly done, does not diminish the healthfulness of milk and is the only method of insuring a safe supply for general use in cities. The consumer must be taught to pay for the good milk and to keep it cool and clean after it is received, not changing it from the original bottle to other vessels nor allowing it to stand open in the air.

Legislation to secure uniform dairy laws is absolutely necessary in order to meet the problem of interstate shipments and punish brokers and dealers who try to evade the law. The law should be simple, covering only essentials: (1) A bacterial standard of not over 100,000 to the c. c. (2) Tuberculin certificates above suspicion. (3) Nothing should be added to nor taken from the milk, but it must be sold as it comes from the cow. (4) All vessels in which milk is offered for sale must have the name of the producer stamped or tagged. (5) The enforcement of the law must be placed in the hands of energetic officials.

Co-operation by city and state is the only means of enforcing laws after they are enacted.

Finally, after all is said and done,

Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

Blatchford's Calf Meal Factory
Waukegan, Ill.

264 Page Book On Silos and Silage

1913 copyrighted edition just off the press. Most complete work on this subject published. Used as text book by many Agricultural Colleges. Gives the facts about Modern Silage Methods—tells just what you want to know, 264 pages—indexed—over 45 illustrations, a vast amount of useful information boiled down for the practical farmer. Tells "How to Make Silage"—"How to Feed Silage"—"How to Build Silos"—"Silage System and Soil Fertility"—"Silage Crops in Semi-Arid Regions." All about "Summer Silos" and the Use of Silage in Beef Production. Ninth Edition now ready. Send for your copy at once. Enclose 10c in coin or postage stamps and mention this paper.

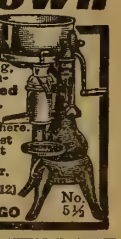
10c

Silver Manufacturing Co., Salem, Ohio

Only $2 Down

One Year to Pay!

$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. **Guaranteed a lifetime.** Skims 95 qts. per hour. Made also in four larger sizes up to 6 1-2 shown here.



30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer, buy from the manufacturer and save half. (12)

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COOK YOUR FEED and SAVE Half the Cost—with the **PROFIT FARM BOILER**

With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also make Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P

D. R. Sperry & Co., Batavia, Ill.

FIRE PROOF NO PAINT IN CEMENT OR TILE

HOW TO BUILD IN CEMENT WITH MATERIAL FOUND ON FARM, WITH UNSKILLED LABOR, WHEN OUTDOOR WORK CANNOT BE DONE; IN TILE BLOCKS SHIPPED DIRECT FROM KILN. WRITE FOR BOOKLET AND SPECIAL OFFER NO. 18

CEMENT & TILE SILO CO.
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in a dry cell is as necessary as honesty in a man

COLUMBIA BATTERIES have a quarter of a century of honest effort and experience behind them.

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For sale everywhere. Ask for COLUMBIA.

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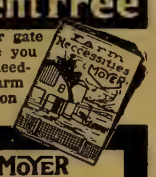
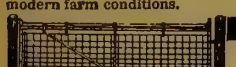
Get This Book on Modern Farm Equipment Free

Let us prove to you that the Moyer gate and Moyer Litter carrier will save you more than their cost in time and needless labor. Our new book, "Farm Necessities," throws a strong light on modern farm conditions.





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Adjustable for side hills and deep snows. Steel frame. Non-buckling galvanized wire mesh. Self-locking latch, Channel steel center brace. Keeps stock in and makes farm look better.

A Few Farmer Agents Wanted

If you are fortunate enough to live in a territory not yet allotted to some one you can make a lot of money calling on farmers who want gates and litter carriers. In writing for our free book state if you are interested in our special agency proposition. Address

MOYER MANUFACTURING CO.,
110 Main St., Montevideo, Minn.

Fresh Air In Dairy Barns Boosts Profits!

Send for free book about King Aerator. Tells how it draws out foul, impure, moisture-laden air—lets in fresh, *pure* air. Helps prevent tuberculosis and other diseases. Prevents moisture forming on inside of roof—no damp ness or dripping Increases health of stock—they give more milk on less feed—put on flesh and muscle. Prevents barn decay. The

KING AERATOR

should be on all buildings where *good* ventilation is needed. Built of best materials on scientifically correct principle. Get free book and prices.

Galvanized Steel Cupola Co.
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The "STAY THERE" Aluminum Ear Markers

are the best. Being made of aluminum they are **brighter, lighter, stronger and more durable** than any other. Fit any part of the ear Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. **Sample tag,** catalogue and prices **mailed free.** Ask for them. Address

WILCOX & HARVEY MFG. CO.,
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LOW PRICES FOR THIS HANDSOME FENCE

100 other styles. Many cheaper than wood—all better. For Lawns, Churches, Parks etc. Complete line of Farm Fence, Farm Gates, Lawn Gates, etc. Write for Pattern Book and special offer.

WARD FENCE CO., 182 Main St., Decatur, Ind.

Advance 10 YRS THE SAME

Fence for every place on your farm—direct to you from nearest point of delivery—at *factory prices* —freight prepaid. Endless rust-resisting stays, lithe hill-fitting *special joint*, every rod guaranteed. *Send for money-saving catalog*—don't buy till you do.

ADVANCE FENCE CO. 160 No. State Street ELGIN, ILL.

ENGRAVING Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

Bees for the Farm Need little attention and pay big profits If you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.

THE A. I. ROOT CO.,
Box 314, Medina, Ohio.

the law of supply and demand regulates the whole problem. There can be no improvement in the situation by legislation alone. No law enforces itself. Public opinion, and that educated until it appreciates the dangers of the present method and the benefits of the new era in our milk supply, will be the power to which both utilitarian and philantrophist must look for the ideal milk supply of the city.

Geo C. Mosher.

HANDLING CALVES FOR PROFIT.

To the Editor of The Homestead:

The first requisite for profitable calf raising is separate quarters for them, away from the older stock. If all are housed together, the smaller and more timid animals are sure to be crowded into the coldest corners—perhaps clear out in the bitter cold. The effect of this on their tender bodies needs only to be mentioned.

Another great mistake made by nine out of every ten farmers is that of feeding the calves practically the same rations as the grown stock. A moment's consideration would show any man that such a course is far from correct and profitable. It is but reasonable to think that the young, rapidly developing tissues of the calves will require a vastly different kind of feed from that given for only maintaining the mature tissues of the grown stock.

It is not advisable to allow the calves to run with the larger stock, even during the day, as they are bitten, kicked and chased around by the grown animals. It is still more detrimental to the little fellows for them to have to feed with the mixed herds, as they will get only a small part of what their share of the feed ought to be. With this inadequate supply of feed, exposure to the severe elements, and rations not adapted to their needs, it is not to be wondered at that so many farmers have such a scrawny, uneven bunch of calves when they come through the winter and are turned to grass the following spring.

The writer has a separate place for the calves, especially this last year's ones. Where there are but a few of them it pays well to have each calf assigned to a certain stall or place; then, with a light web halter on it, and a snap and tie rope attached to the manger, the little fellow soon learns its place, steps right into it, and is tied there. This insures no chasing around at feed time; no pushing and crowding; no cheating in feed of the smaller and weaker calves by the larger ones. This method also enables us to feed more economically and judiciously, gauging the quantity and variety of rations for each calf according to its size, age and individual tastes. By this management, we can give the heifer intended for the dairy herd a little extra care and feed, also teaching her to be led and handled, which will save a lot of useless training when she drops her first calf. The male calf, too, which will be retained in the herd for service, can be given the same care and handled in the same way, which will add several dollars to his worth by developing a strong, vigorous breeder that is gentle and tractable at all times.

Having provided clean, sanitary quarters, with good, dry bedding for the calves, we feed a variety of those rations that will promote the rapid development of both bone and muscular tissue rather than too much of those that would build up excessive fatty tissue. Our favorite grain-and-mill-feed ration for the calves consists of two parts bran; two parts oats; and one part corn chop. An occasional handful of oil meal for each calf will prove most beneficial. Shelled corn may be substituted in place of the corn chop for a change in rations, and one-half the amount of shorts will take the place of the bran. Such a ration keeps the digestive and assimilative organs in prime working order, regulates the bowels, and promotes ideal health and thrift among the calves, the corn portion of it supplying enough fat to maintain body heat and comfort. For calf feeding we avoid those roughages that are tough, woody or overripe, such as timothy hay, heavy, ripe millet hay, low-grade fodder and straw. Where the straw is bright and light of stem, small quantities of it will prove beneficial as a change in rations. Bright corn fodder is excellent if early cut. Clover or alfalfa is unexcelled, and if run through a feed cutter before feeding, dampened slight with water and covered with a light sprinkling of mill-feed stuff, the calves will greatly relish and thrive on it, requiring much less feed than where the product is fed in its raw, bulkier state.

A Perfect Separator Oiling System

In a machine which is operated at the speed required for a cream separator, perfect oiling is very necessary.

The new system of De Laval automatic oiling provides for a constant and liberal supply of *CLEAN* oil to every wearing surface of the machine at all times. There are no oil holes to fill up with dirt or perhaps to be neglected altogether, and every part is supplied with clean oil from the oil reservoir automatically and constantly.

In other, so-called, automatic oiling systems some of the parts have to be oiled by hand and no provision is made for getting rid of dirt that may get into the oil from the outside or of small particles of metal which come from wear, so that after a short time the oil supply becomes foul and injurious to the finely adjusted wearing parts.

DE LAVAL Cream Separators

have the only automatic oiling system which provides for a constant supply of fresh oil and, at the same time, the constant discharge of the used oil together with all worn metal particles or dirt which may have gotten into the used oil.

The perfect system of De Laval lubrication means an easier running and a much longer wearing machine. Visit the local De Laval Agent and ask him to explain the advantages of De Laval automatic oiling.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

THE DE LAVAL SEPARATOR CO.

NEW YORK CHICAGO SAN FRANCISCO SEATTLE

Dairy Cleaning Easily Done

Old Dutch Cleanser halves the work in the dairy. The milk pans, pails, churns and cream separator are thoroughly cleaned in half the time with half the effort, if Old Dutch Cleanser is sprinkled on cloth or on the article cleaned. It leaves the milk utensils shinning, clean and sweet.

It quickly removes cream clots and milk stains from shelves, benches and floors.

Old Dutch Cleanser does equally as well anywhere on the farm where cleaning is done.

Old Dutch Cleanser

Many Uses and Full Directions on Large Sifter Can—10c.

One of the most satisfactory roughage rations we ever have found, consists of mown oats, cured and stacked while passing from the milk to the dough stage; and second-crop millet, grown on the same land the oats were and cut before it was thoroughly ripened. Cut at this stage of growth, both these roughages will retain their natural, juicy flavor and succulence, the tender, nourishing blades will hang to the stems; while the grain, not being thoroughly ripe, will prove fine for the calves, making it necessary to feed only a very little, if any, grain in conjunction with this combination roughage.

Cole county, Mo. M. Coverdell.

TURNING THE COW DRY.

To the Editor of The Homestead:

With some cows turning them dry is not a difficult nor damaging process; with others it is a serious problem; with all it should be carefully and systematically managed. In turning a cow dry we try to follow nature as closely as possible, drying up the cow that is yielding a low supply of milk much quicker than the one which more easily keeps up a good milk flow.

Some argue that the cow should be held to her milk till the calving period, if possible, but as a general rule this is not advisable. The cow needs a little rest surely in a whole year. Then the calf is apt to be stronger and more vigorous if the cow's whole energy is devoted to its sustenance at this period.

When we begin to dry up a cow she is skipped at one milking time. If her udder is limp and flabby at the next milking period, showing the presence of little or no milk, she is not milked till the next time. As a rule, however, the cow will require milking, and the cow that has been a heavy milk producer will demand it without fail.

We skip one milking for about three days, when the cow is allowed to go without milking for two periods three or four days, the distance between the milkings being gradually increased till she is milked only twice or three times in a whole week, when, if no complications have been noticed, the milking may be left off entirely, noticing occasionally that all is well.

There are two common mistakes made in handling the cow that will be fresh in the spring. Some try to dry her up too rapidly by light feeding, milking only part of the milk from her udder, giving those rations intended to dry up the milk flow, etc. These practices are damaging to both the cow and her unborn calf. Milk the cow clean and dry when you do milk, as the partial milking may spoil her by training her to hold a part of her milk up after she drops her calf.

Feeding the pregnant cow on dry, woody or other feeds that are low in milk-producing qualities is productive of serious digestive ailments and stunts the calf she carries, and the same is true of the light feeding. Some cows are such persistent milkers that it will be necessary to milk them right up to the time of calving, and in such cases don't slight her to cut down the milk flow. It is imperative that she be kept in prime condition if she develops a calf of healthy, vigorous constitution, and any unnatural treatment in the way of feed will wield a detrimental influence against this. The other mistake, above mentioned, is just the opposite of this one, that of overfeeding to keep up the milk flow of the cow which, by nature, ought to be turned dry. Such a practice probably brings more harmful results than underfeeding, as it not only deranges the animal's entire digestive and assimilative system, but lowers the constitutional vigor of the unborn calf, often resulting in abortion; while the milk flow of the cow when first fresh is sure to be below normal Subscriber.

HANDLING AND FEEDING A BROOD COW.

To the Editor of The Homestead:

Not only does the condition of the brood cow demand that she be handled and fed with great care from now on till calving time, but the health and vigor of her offspring wil' depend largely upon the manner of her keeping till that period.

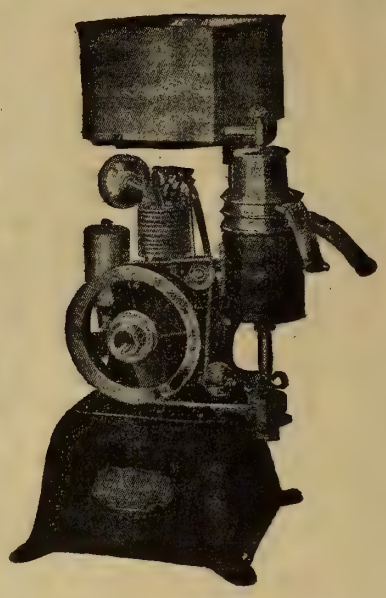
Quietness is imperative. Any sudden fright or chasing of the pregnant cow is sure to result seriously, damaging both the cow and her unborn calf. She should be handled with the greatest of care, which not only avoids the influences of the circumstances just mentioned, but one thus will be on friendlly terms with her, and can be of more benefit to her at the time of calving.

If possible the pregnant cow should be kept away from the other stock, especially for several weeks immediately preceding the time for calving. Their condition and feelings in general cause them to be slow of movement and get in the way of other animals, which often results in a kick or a jam that causes abortion, or at least a partial paralysis of the cow, the damage also being felt by tne unborn calf.

Snug, dry quarters at night should be provided for the pregnant cow. Housed thus, she will require less feed

"The 1913 Automatic" Cream Separator

Compels Attention



The "Automatic" is the one great stride forward in dairy appliances since Babcock's invention. It overshadows all others. The idea of combining in one efficient unit the separator principle and gasoline power, to skim more evenly, more closely, more quickly, with *no* effort —was a big one. It startled the whole dairy industry.

In all parts of the world dairymen installed the Automatic to test it. Agricultural colleges and Experiment Stations tried it thoroughly. Everybody saw its possibilities, if successful. And it has been wonderfully successful. For over two years Automatics have been in steady operation in all parts of this country, in Europe, Australia, South America—wherever cows are being milked and butter made.

In point of operation the engine has worked without a hitch. It has been trouble proof. In point of close skimming, the Automatic has broken all records. No hand crank machine can possibly skim so close, because the speed of hand power varies. The Automatic skims even, absolutely even, the speed being maintained without variation. The result is more butter fat and smoother cream; to say nothing about a great saving of time and labor.

Self Powered: Engine and Separator In One

Wherever ten or more cows are being milked hand power is doomed. No up-to-date dairyman will put up with the drudgery and expense of cranking a separator when he can have it done quicker and better with gasoline power *compactly built into the machine itself.* He won't burden his family with a backbreaking grind, if he can help it; and he won't hire extra help—not at present wages. You don't have to tell him about the advantages of gasoline power. He knows them. The problem was to build into the separator itself an *efficient* gasoline engine. This has been done. The AUTOMATIC is a perfect combination of the two. It is a smooth running unit, with a self contained motor specially designed and adapted for separator use. The design is patented: nothing like it on the market. The bowl spins *without a trace of vibration.* This is a very different matter from the makeshift of hitching up a hand cranked separator with any ordinary gasoline engine.

When the Milking Is Done, Skimming Is Done

The Automatic will handle over 700 lbs. of milk in an hour, for any number of hours. It skims faster than ten men can milk, at a high even speed. No hitches or variations. The engine requires not the slightest attention; runs continuously for six hours without replenishing of fuel. Starts by the pulling of a cord. No chance to kick. The separator is simplicity itself. Crankless and gearless. No complicated parts to get out of order. Little to wear out. With ordinary care it should last a lifetime.

1913 Model Equipped With Magneto

This is our latest improvement. Makes ignition more certain. The battery and coil system has worked very well—given universal satisfaction. But it is not as scientific as a suitable magneto. The problem has been to design a suitable magneto for THE "AUTOMATIC." This has been done. The magneto perpetuates itself—never needs recharging. With this latest improvement the Automatic has been rendered more completely automatic. Not even a battery to renew, nor a coil to adjust. We are also manufacturing battery equipped machines and selling them with a special trade allowance of fifteen dollars for old separators taken in exchange.

If you are milking eight to ten cows or more you ought to know about the AUTOMATIC Cream Separator. See it in actual operation. Then you won't go on cranking a hand machine any longer. You cannot afford to.

By writing us you can obtain full information by mail. We will tell you where you can see the machine in operation—of what dealer you can buy one. Give us the name of your dealer.

Standard Separator Company

263 Reed Street **Milwaukee, Wisconsin**

$15.95 AND UPWARD

SENT ON TRIAL

AMERICAN SEPARATOR

Thousands In Use giving splendid satisfaction justifies your investigating our wonderful offer to furnish a **brand new, well made,** easy running, easily cleaned, perfect skimming separator for **only $15.95.** Skims **one quart of milk a minute,** warm or cold Makes thick or thin cream. Different from this picture, which illustrates our low priced large capacity machines. The bowl is a **sanitary marvel** and embodies all our latest improvements.

Our Twenty-Year Guarantee Protects You

Our wonderfully low prices and high quality on all sizes and generous terms of trial will astonish you. Whether your dairy is large or small, or if you have *an old separator* of any make you wish *to exchange,* do not fail to get our great offer. Our richly illustrated catalog, *sent free of charge* on request, is the most complete, elaborate and expensive book on Cream Separators issued by any concern in the world. *Western orders filled from Western points.* Write today for our catalog and *see for yourself* what a big money saving proposition we will make you. Address,

AMERICAN SEPARATOR CO., Box 1073, Bainbridge, N. Y.

$2842.00 Profit In 70 Days on Ensilage Fed from Champion Silos

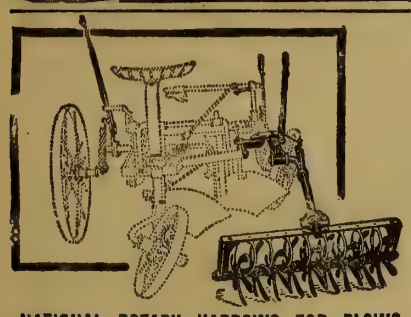
This remarkable record made by C. L. Hurd, Wainwright, Okla., shows the possibilities of ensilage feeding. It proves that the Champion Silo is best in material, construction, improvements and a real profit maker worth investigating.

Get Complete Facts of This and Other Wonderful Champion Silo Profits Free-Write.

These stories bound in portfolios are free with catalog to silo prospects. They are interesting and instructive. They show how others do it, how you should do it, why it is safest and best to get a Champion Silo with solid steel interlocking door frame with malleable lugs, combination latch and ladder, steel anchors, etc.

Get full particulars free today. Learn how to make silo profits like this. Address

WESTERN SILO CO.,
100 11th Street,
Des Moines, Iowa



NATIONAL ROTARY HARROWS FOR PLOWS

It will surprise you to know the low price that we are quoting the first ten farmers in each township on out famous Rotary Harrows for Plows, to quickly introduce them. We refund the purchase price and pay freight charges if not satisfactory. 75,000 in use and sales doubling each season. Pays for itself on first five acres plowed. Guaranteed to increase yield twenty per cent. The new way of harrowing as you plow proved to the farmers last season that it saves time, labor and money in preparing the seed bed. Write us today for special introductory prices and circulars.

NATIONAL HARROW CO., LEROY, ILLINOIS

NEW MODEL OF THE

ROYAL STANDARD TYPEWRITER

Has two-color ribbon, back-spacer, tabulator and many new and valuable patented features that other typewriters do not have,

PRICE $75.00.

Send for "The Royal Book," 32 pages of typewriter information—the finest typewriter catalog ever issued. Yours for a postal card.

ROYAL TYPEWRITER CO.
Royal Typewriter Bldg., New York
511 Mulberry St. W., Des Moines, Iowa

SILOS

From Factory to Farm

Our silos made of best material. Shipped on approval. Don't accept if not exactly as represented. **Buy direct and save** $25 to $75 on the cost of your Silo. Postal card brings free catalog and price list. **Write** today.

INDEPENDENT SILO CO.,
294 Endicott Bldg., St. Paul, Minn.

Guernsey Cattle.

GUERNSEY

Most Economical
Producer of Highest
Natural Colored Dairy
Products
Get them. Write

The American Guernsey Cattle Club,
Box I. H. Peterboro, N. H.

INGLESIDE GUERNSEYS

MAY King and Glenwood families, 38 advanced register cows. All mature cows in the A. R. Largest herd of registered Guernseys in Illinois. Bull calves and a few heifers for sale. Send for catalog. **T. W. BROPHY, Proprietor, 81 E. Madison Street, Chicago, Illinois.**

REGISTERED GUERNSEYS

WE now offer 30 head of registered females and 6 May Rose bulls, 5 of them ready for service.
WILCOX & STUBBS CO., Des Moines, Ia.

to keep her in prime condition, which prevents the overtaxing of her digestive organs in handling large quantities of feed to keep up flesh and bodily heat. This provision is also most essential because of the fact that the cow might drop her calf at a time when one least expected it, and by having her confined every night, there will be no danger of the calf being chilled or frozen.

Moderate exercise is a pressing essential with the pregnant cow, and is apt to be neglected in furnishing her with snug, separate quarters. In all cases, she should be allowed the range of a good-sized lot, where she can move about in the open air and sunlight the exercise tends to keep her digestive and assimilative organs in correct working order. Where exercise is scant or neglected, serious complications are apt to set in, especially those with the seat of trouble located among the bowels.

For a pregnant cow of good health and vigor, one might not need to exercise quite so much care in feeding; still it is best to keep on the safe side and feed her after the most approved methods. While too much corn is productive of bad results we never have experienced any trouble from feeding a limited amount of it to pregnant cows—enough to keep up the heat of the body and to maintain good flesh. For the grain ration we favor equal parts shorts, oats and corn-chop (or corn-and-cob chop may be substituted for the corn-chop). Roughage may be of clover or alfalfa, clean, bright corn fodder or mown oats, the latter having proved especially fine with us. These rations simply keep the bowels loose and in prime working order, avoid congestion of the already somewhat heated system of the animal and furnish the proper nourishment for the unborn calf, at the same time leaving the cow's milk-producing organs so stimulated as to start a heavy and profitable flow of milk as soon as the calving period is safely passed. These ideal conditions being promoted there is not one case in a hundred where there will be any trouble whatever experienced when the cow adds another link to the profits of your dairy herd.

M. Coverdell.

DEEP PLOWING.

To the Editor of The Homestead:

Seeing in a recent issue of your paper an article under the caption, "Deep Plowing," with your permission I will give your readers my experience the past season. I have a field of twelve acres of average upland, the soil being a reasonably light loam with a good red clay subsoil—one of the characteristics of our best uplands. This field had been in corn and cowpeas the previous year, but the growth of the vines was not very heavy, as the season was unfavorable one for peas. No stalks or litter of any kind were removed or burned, but all cut up and plowed under.

It was my purpose to plow this field at least two or three inches deeper than it had ever been plowed before, which was about five or six inches at most. I put two horses to a No. 12 Vulcan plow and set the plow to run about eight or nine inches deep, but did not let plow cut full width, my purpose being not to cut wider than eight inches at most and from that only six or seven inches wide. By this method of plowing you turn but little, if any, of the raw subsoil to the surface. Of course, it takes longer to plow a field this way, but I feel that I have been amply repaid. I did not commence to break this field until about the 10th of April which is very late for this climate.

This field was planted in corn the latter part of April and some of it not until May. The early part of the growing season was one of the wettest I ever saw and but little cultivating with a team could be done. The latter part of July and all of August were dry. This field did not have a bit of good corn season after the ears commenced to form, but notwithstanding the hot, dry weather the yield was fairly good, a part of the field making fifty bushels per acre.

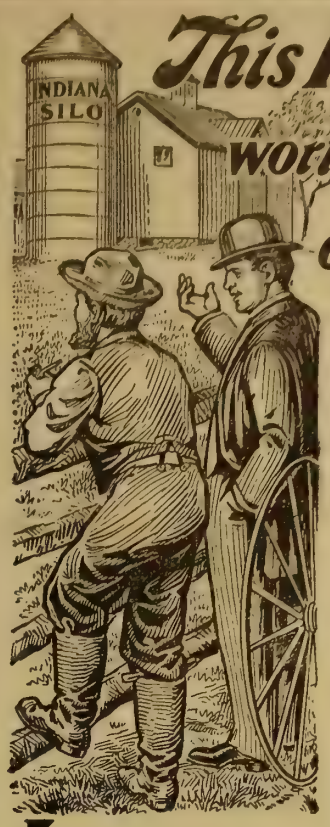
In conclusion I will say that I do not think any of your Missouri or Kansas correspondents will make any mistake in plowing as deep as they want by cutting narrow furrows. I think this method is better than subsoiling.

W. M. Key

Madison county, Tenn.

The United States uses one-fifth of all the sugar made in the world.

This INDIANA SILO is worth more than the farm on which it stands



The West Virginia Farmer to whom we sold this Indiana Silo is now feeding 47 head of cattle where he formerly fed only 17 head. No more land under cultivation, no more crops planted, no more feed bought,—but the corn goes three times as far because cobs, leaves and stalks all go into his animals instead of into waste. Twenty-five thousand other farmers have found that the

INDIANA SILO

is the biggest money maker on the farm because it enables them to get 100% food value out of their corn crops and to have fresh, succulent feed all year round at less cost than dry feed.

The Indiana Silo is a quality article from the ground up. Only the best of silo materials enter into its manufacture. Our timber experts at the mills take the first selection. The highest grade steel is used exclusively for making our hoops, every one of which is capable of withstanding four times the strain that ever comes upon it. These are some of the reasons why Indiana Silos last so long without deterioration and cost so little for upkeep.

Every man who buys his first silo from us buys his second, third and fourth from us also. In fact, he is pretty sure to buy his second silo from us, no matter where he bought his first.

If you want to make your corn crop yield you twice the net profit it now returns, order an Indiana Silo today. We will make delivery when you want it.

WRITE today for our catalogue and a free copy of the book "Silo Profits", which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. And ask us for the name of our representative in your locality.

Remember you don't need cash to buy an Indiana Silo—"It buys itself."

THE INDIANA SILO COMPANY

Factories:

Anderson, Ind. 321 Union Bldg. **Des Moines, Ia.** 321 Indiana Bldg. **Kansas City, Mo.** 321 Silo Bldg.

HOLSTEIN-FRIESIAN CATTLE.

Pure-Bred Registered Holstein Cattle.

Bulletin 225 of the College of Agriculture, University of Wisconsin, says: "The average Wisconsin cow produces 200 lbs. of butter per year, worth but little more than the feed she eats."

In a state famous for its high-producing cows, this seems a poor average and shows that a great number of the cows kept are only a source of expense to their owners.

Does all your cows pay a reasonable return on the investment of money and labor they represent? Any good Holstein pays 50% profit on the cost of her feed.

Send for Free Illustrated Descriptive Booklets.

HOLSTEIN-FRIESIAN ASSN., F. L. HOUGHTON, Sec'y. Box 113, Brattleboro, Vt.

Holstein Cows and Heifers at Bargain Prices

ON account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a car load. All tuberculin tested and bred to registered bulls. Also a few registered bulls ready for service. **ROCK BROOK FARM, STA. B, OMAHA, NEB.**

HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R.B. Young, Prop. Buffalo Center, Ia.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

W. C. KENYON. Elgin, Illinois

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented. Bulls and heifer calves. Herd tuberculin tested

Geo. Burmeister, Prop., Waukesha, Wis.

40 BULLS 40

PURE-BRED registered Holstein bull calves, from 1 to 12 months old. An extra choice lot, most of them sired by our great herd bulls, and many of them out of high record cows. Our prices are bedrock. We are short of room and must sell at least 20 of them in the near future. Send for price list.

WOODLAWN FARM COMPANY, Sterling, Ill.

Russell's Holsteins

Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

T. H. RUSSELL, - Geneva, Ohio

JERSEY CATTLE.

WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead. H. C. Young, Lincoln, Neb.

Producing Jersey Cows

I HAVE for sale cows and heifers of the most popular producing strains, and at quite reasonable prices. Would also spare a few choice young bulls. 2 mature Shropshire rams, a number of ram lambs at farmer's prices. Geo. S. Redhead, Des Moines, Ia.

AYRSHIRE CATTLE.

AYRSHIRE Cattle for sale. Bred for good dairy results. Breeders and Shippers. Prices reasonable. **F. TSCHUDY & SONS, Monroe, Wis.**

Here's the Only Guaranteed Incubator in the World

Sam Thompson, President

Investigate it thoroughly before you buy. Compare it with any on the market. Read the stories of success and profits made by Fairfield owners. Try it yourself on my 2-hatch trial proposition and you will be convinced that my Fairfield is in a class by itself, the most perfect incubator made. Perfect in material, construction and perfect in hatching.

These are not claims, they are facts and I back them with my guarantee, the fairest, squarest ever written.

First, I guarantee that the Fairfield is made right, that it works right, particularly, that it will hatch right, which means hatch 90% or better of all fertile, hatchable eggs or you get your money back. Now the question is, do you want a guaranteed Fairfield and some profits, or will you invest your money and experiment with any old kind and waste your time, spoil high-priced eggs and be satisfied with 50 or 60% hatches that you get with ordinary incubators. Think it over. At least investigate.

7 Years' Hatching Record Proves the Fairfield the World's Best Hatcher

Seven years ago the first Fairfields were built. They made good right from the start. They made hatching and poultry raising a certainty instead of guesswork. They established a record for big, continuous hatches that no other incubator has ever been able to touch. That's why the Fairfield today is known and recognized as the World's Best Hatcher.

Six years ago a Fairfield was shipped to Mrs. Wm. Evans, at Albion, Neb. During all this time she averaged 92% hatches and had absolutely no expense for repairs except 30 cents for new lamp burner.

Coxbill Bros., Deweese, Neb., bought four Fairfields last season and hatched over 2,000 chicks. In their recent letter they report that their old Fairfield bought 5 years ago still runs fine and hatches same as their new ones.

Thousands of similar reports are on file. We will send you some from your own community if you still have any doubt about it being the World's Best Hatcher. The quickest and surest way to convince yourself is to get my 2-hatch trial offer and try the Fairfield on my guarantee of your

Money Back If the Fairfield Does Not Hatch 90% or Better

The whole secret of the Fairfield hatching power lies in the construction of the machine. It's made of finest California Redwood with double wooden walls having dead air space between. The lid is made with special insulating material to retain heat. The heating system is of heavy copper throughout and so arranged that every part of egg chamber is of even temperature. In addition it has automatic heat regulator to insure steady, uniform heat, without requiring constant attention from operator. Each detail of Fairfield construction is correctly and honestly worked out. It cannot help but give satisfaction to everyone, either new beginners or expert poultry raisers, in any climate and maintain its reputation as the World's Best Hatcher.

You Can Own a Fairfield Free After First Hatch

The Fairfield costs no more than most of the ordinary incubators but the first hatch made with a Fairfield pays for it and leaves a profit besides. That makes the Fairfield a mighty good investment.

The Fairfield Makes the Chicken Business Pay.

It removes the guesswork and uncertainty and you get reliable results because you are working with a reliable machine. When you put 100 fertile eggs into a Fairfield you absolutely know you will get at least 90 chicks because that is my unconditional guarantee. I couldn't give you a guarantee like this unless my machine was as perfect as it is possible for human skill to make it.

FAIRFIELD Incubator WINS

The Great Missouri and Kansas Hatching Contest

The Farmers Mail and Breeze, to show the possibilities in chicken raising for profits, conducted an incubator contest among its readers. 1,500 people from Missouri and Kansas entered. Every known make of incubator was represented and Mrs. R. L. Decker, of Columbus, Mo., won first prize with a Fairfield which made a 99¼ and 100% hatch. That's simply another illustration of the fact that the Fairfield is really and truly the World's Best Hatcher.

Write for Free Catalog and Special Offer

Get the Facts About the Fairfield.

I've told my story giving as many facts as the space would permit. Now it's up to you to investigate thoroughly. The quickest way would be for you to write for my free catalog for my special 2-hatch trial offer and full details of my guarantee.

SAM THOMPSON, President,
NEBRASKA INCUBATOR COMPANY
99 Main Street, Fairfield, Nebraska

Ironclad TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only $10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the greatest hatching contests ever held. In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid for only $10, Mrs. C. F. Merrick, Leckney, Texas hatched 148 chicks from 148 eggs in 1912 contest

140-EGG Ironclad Incubator

Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this adv.

5-Year Guarantee

Both for $10 Freight Paid East of Rockies

30 Days' Free Trial Money Back if not Satisfied.

140 Chick Brooder

IRONCLAD INCUBATOR CO., Box 59, Racine, Wisc.

MEN WANTED!

SOUND MEN—21 to 40 years old wanted at once for **Electric Railway Motormen and Conductors** in every state. **Wages $60 to $100 a Month.** Experience unnecessary. Permanent employment, no strike. Write immediately for Application Blank. Address **Manager Employment Department, Room 950, Dwight Bldg., Kansas City, Mo**

ESCAPE THE COLD WINTERS. Locate on a southeastern farm. Profitable lands $10 to $30 an acre—easy terms. Poultry, truck and fruit pay $50 to $300 an acre. Unexcelled living conditions. Land lists and the "Southern Field" magazine free. M. V. RICHARDS, Land and Industrial Agent, Southern Railway, Room 50, Washington, D. C.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

ROUP—CATARRHAL.

"A Subscriber," Dakota City, Neb., writes:

Please tell me what ails my chickens and what to do for them. We have a good poultry house lined with Ruberoid roofing. The chickens are turned out every nice day. They are fed warmed wheat scattered in straw and a little browned corn in the evening. The eyelids begin to swell, pretty soon become swelled shut, followed by much inflammation, and the watery substance runs down their beaks. At this stage many of them die.

There is roup and roup, practically the same though in different forms. A common cold and roup are easily confused. Cold is not roup, neither does it "run into" roup—really. A cold may run through a flock because the conditions that cause one fowl to take it causes all to be afflicted. Then in the weakened condition the flock is susceptible to roup, which is caused by a specific germ. The outward symptoms woud indicate that the "cold is worse." When the eyes swell and there is a catarrhal discharge the trouble is accompanied by an offensive odor. When it reaches this stage it is contagious, and immediate action should be taken.

Kill all fowls badly infected, and be sure they are completely destroyed. Remove all afflicted birds to warm, dry quarters, in the sunshine if possible, and feed a soft, easily assimilated ration. Sometimes the swelling becomes soft in the center when it should be lanced with a sterilized knife and the pus drained out. Wash with a disinfectant. Fifty per cent peroxide of hydrogen is the best thing I have found for either afflicted chickens or boys with nail punctured feet, and anoint the wound with carbolated salve. A large box can be purchased for fifty cents and should be on every farm. If not allowed to run too long the disease may be checked and the fowl recover. Whether it is a course to be recommended for future breeders is extremely doubtful. Certainly not if the fowl had become seriously affected.

Your hope is in the remainder of the flock. The house is warm enough, but is it ventilated? From the description I judge there is no draft, but if there is no provision for fresh air, that would of itself cause the trouble. A house should be tight as a drum on three sides, and the fourth is of small matter so long as the rain or snow does not enter. It is the warm, damp, ill-ventilated house, that causes roup, and other outbreaks of disease as well.

As compared to other animals the hen has a much higher temperature. This means a rapid combustion within the body and much fresh air is necessary. It has been estimated that a horse weighing 1,000 pounds breathes nearly 3,500 cubic feet of air in twenty-four hours. Two hundred five-pound hens, while weighing no more than the horse, yet require 8,000 cubic feet of air in the same length of time. Nature has given the hen, in addition to a good pair of lungs, a system of air sacks which extend to all parts of the body and are connected with the cavities of the bones. Unless there is good ventilation to carry off the moisture of respiration the house is damp.

Give the flock enough permanganate of potash in the drinking water to color it a rich wine color. On the first symptom of trouble, put some of this solution in a can and dip the fowl's head so that the liquid will be forced to all parts affected. Fifty per cent solution of peroxide is good and in the case of being temporarily without either, I have used kerosene with good results. The idea is to begin as soon as the trouble is detected. Anyone should be so well acquainted with his flock as to note the lack luster eye and general unthrifty appearance of his fowls before any decided symptoms are manifest.

The feed mentioned is a very good basis, to which should be added plenty of succulent food, grit, crushed shells and lean meat in some form. Milk is a cheap by-product on the farm and is good for a chick from three days old, all along the line of growth and egg production, and it is an important factor in preparing for market as well.

FAVUS IN POULTRY.

A farmer's wife says:

Can you tell me what ails our poultry? The trouble is in the neck. They do not act like limberneck. Just the back of the neck is affected. It swells, gets sore and hard to the touch. I began to doctor them, rubbing salve on the affected parts as soon as we noticed the trouble. Only a few died, but the trouble seems to be going through the flock. They eat and drink almost the same as usual.

Favus is not very common in our

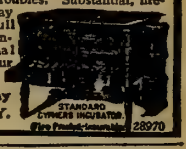
Big Money this Year in Poultry and Eggs

1913 promises to break all records in poultry and egg profits. Prices are high now—and will stay high. Cost of production is low. Farmers, their wives and daughters, will make a big share of this 1913 poultry money. But the way to do it is to be rightly equipped—with the right knowledge—with the right tools!

"Profitable Poultry and Egg Production" is the title of our big, FREE 1913 Year Book that gives the latest facts, the most successful methods, the most reliable advice on poultry raising. It is worth many dollars to any one who raises chickens.

Cyphers INCUBATORS and BROODERS

are selected by farmers, who insist upon a high standard of quality in every tool used on their farm! *Absolutely reliable.* They mean high percentage hatches and chicks that live—no heat or moisture troubles. Substantial, fireproof, dependable. Write today for the 244-page Book, and for full information about Cyphers Company "Free Bulletin and Personal Letter Service," which makes our customers still more successful.



Cyphers Incubator Company
Dept. 42 Buffalo, N. Y. 28970

RAYO HATCHES ON A GALLON

Incubator

Fill oil tank once with one gallon of oil, then light lamp—the RAYO, with automatic regulator, will complete the hatch. Cheap, easy.

Saves big oil-money

Lamp underneath—perfect radiation—even temperature. Turn eggs without removing tray. Clean lamp without removing tank or chimney. See eggs and thermometer through glass top. Regulator adjusts exactly. Double heating system saves heat. Automatic ventilation. Roomy nursery. Big hatches certain—fine, strong chicks. Low direct price, freight prepaid. Ask for Free Catalogue No. 10.

Rayo Incubator Co.
942 South 13th St. Omaha, Neb.

More Chicks

Bigger, stronger and healthier, because hatched under right conditions. Send for catalog of the 1913 model automatic

QUEEN Incubator

28 Points of Superiority

Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.

P. M. WICKSTRUM, Incubator Man
Box 10, Lincoln, Neb.

$4.95 = AND ITS YOURS

NEW MANKATO

Direct from factory. 18 years experience. Safe, sure, simple. Redwood, triple walls, asbestos lined. Copper hot water heating tank, self regulator, automatic ventilation, safety lamp, nursery, tested thermometer. Comes all set up, ready to start. Write for free Catalog and Poultry Book. Address

Mankato Incubator Co., Box 827, Mankato, Minn.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1913 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c.

C. C. SHOEMAKER, Box 896 Freeport, Ill.

Only $6.75 And Up

Brings you the world's most famous hatching machine—the incubator with 18 features of superiority—the one that's first in hatching more chicks, larger chicks, sturdier chicks—the most efficient and reliable machine under all conditions—the incubator that's backed by the strongest guarantee ever placed behind a hatching machine.

Don't delay but order a Successful today. You have everything in your favor by starting in the money-making poultry business with my

SUCCESSFUL

INCUBATORS — BROODERS

(Life Producers) (Life Preservers)

I will even go so far as to give you a

$25 Poultry Course FREE

with each machine. This course contains the most practical advice ever given. It tells how to produce poultry and eggs at lowest cost, explains how to sell them to best advantage; in fact takes you from the beginning to end of the business, revealing everything necessary to insure you a big success. Don't delay another day but write NOW for my

Successful Catalogue—FREE

My book tells you about various incubators and brooders. It gives you a good idea of the advantages of each, what size to buy, etc. It is free from all exaggeration and tells you just what steps need to be taken to make good money from the very beginning. Write NOW, before you lay the paper aside.

DES MOINES INCUBATOR COMPANY

50 Second Street Des Moines, Ia.

Note—Our famous little booklet "Proper Care and Feeding of Chicks, Ducks and Turkeys." Sent for 10c, but our big catalog is free. Send for it.

Ask about our thoroughbred poultry and eggs for hatching at lowest prices.

WE START YOU IN THE CHICKEN BUSINESS FREE

To prove that we have the biggest money maker ever invented we will send you freight paid, for 40 days' trial, *without obligation to buy*, a

"SIMPLICITY" COMBINED HATCHER AND BROODER

Fill it with eggs. Try it. Count the chicks. Note how strong and sturdy they are and how perfectly the brooder takes care of them. Made of all metal. Guaranteed. Failure impossible. Averages better than 85 per cent hatches. Send it back if not delighted and the experiment will not cost you a cent. Write today.

Indianapolis Corrugating Co.
105 K St. Indianapolis, Ind.

Mandy Lee

New Principles in Incubation. Every feature automatically regulated—heat, ventilation and moisture. The **Mandy Lee** is certain, simple, easy to operate. No chance for mistakes, simply follow plain rules. Chicks large and vigorous, the kind easily raised. Write for free books on Incubator and Lee's famous Germozone, Lice Killer and Egg Maker.

GEO. H. LEE COMPANY,
1178 Harney Street, Omaha, Neb.

Beauty Among The Roses For You...

This beautiful 1913 calendar is lithographed in ten colors and is by far the prettiest calendar published. The picture gives you only a very faint idea of its beauty. It will be an ornament to any home. Given with a year subscription to People's Popular Monthly for only 30 cents. Our supply is limited. Order now. Dept. D.

People's Popular Monthly
Des Moines, Iowa

country. It is caused by a fungus usually found in mold. This same mold is responsible for a lot of trouble that no one knows of. If examined when first affected there will be found a thin crust formed on the surface of the skin. Our correspondent's success in saving her flock is due to prompt measures, and before the thin crust began to thicken. The disease develops rapidly and as it advances the crust often forms into round deposits raised at the outer edge and depressed in the center.

If taken in the early stages before the crust becomes thickened, any kind of oil will be found effective. If allowed to run until the scales do become thickened, it is necessary to scrape off the crust so that the oil may reach the basis of the trouble. Succeeding in this the fowl may be saved. In extremely bad cases it is well to add one part carbolic acid to twenty parts ointment.

Every precaution should be used in treating fowls for favus. It is possible for human beings to contract the disease and especially if there be a cut or wound of any sort on the hand when coming in contact with the fowls.

STRAIN, SCALY LEG AND SPURS.

Mrs. C. W., of Illinois, writes:

I have purchased a Barred Rock cock and am in dobut if he is a Thompson or Bradley strain. What is the difference? What will cure scaly leg? The cock mentioned has very small spurs. Do you think they have been removed, and what would be the object of doing so?

The first question is a pretty hard nut to crack and might get one into more than his allotted peck of trouble. Poultrymen, who are acquainted with the different strains of the Barred Rocks, can at sight distinguish the particular strain. We have heard judges who would begin to score a show bird say, "Bradley Brothers," or "Thompson strain." Every strain conforms to the same standard, the principal difference being the result of different men's ideas about minor things.

When we think of Thompson strain, the thing that stands out most prominently is the even barring, that reaches in an unbroken line around the body, hence the name "Ringlets." The sure sign of Bradley strain is the narrow, clear-cut barring on the wing. At a large poultry show last winter I was struck with the appearance of a very choice cockerel. The owner was asked what strain he raised, to which he very pompously replied: "Oh, we have a perfected strain of our own!"

"That wing spells Bradley Brothers to me."

"There is a little Bradley stock in his makeup."

Guess there was! It afterwards turned out that the bird was bought, and not a "perfected strain" of the exhibitor at all.

Which strain is better? Either strain is bigger and better just as its keeper is bigger and better.

The best cure for scaly leg is to rub the affected part with oil, lard and kerosene or anything similar that can be rubbed well under the scales. This treatment puts the minute parasites, that burrow under the scales, out of

THE HOME OF DICKEY'S DUROC J ERSEYS.

The above engraving shows a herd of Duroc Jersey hogs owned by F. H. Dickey, Emmetsburg, Iowa, together with the modern buildings with which his farm is equipped. Mr. Dickey holds a public sale of Duroc Jersey sows in the pavilion shown in the picture Tuesday, February 4th. See page 49.

Still Less Than $10

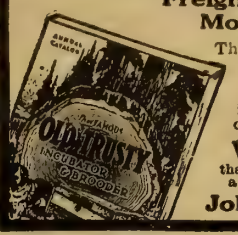
M. M. Johnson

and 400,000 Chicken Raisers Have Proved The Quality of Johnson's Old Trusty

H. H. Johnson

400,000 is quite an army of people to use one make of incubator. It's more than several other concerns combined have sold! What's the reason? Johnson's Old Trusty is a *real* hatcher. It has *everything* an incubator *ought* to have and nothing it should *not* have. And just because Johnson sells so many every year he can afford to take a smaller profit than any other manufacturer. That's why his price this year is still *less* than $10 for the greatest, most successful hatcher ever built.

Freight Prepaid—30 to 90 Days' Free Trial
Money Back and 10 Year Guarantee



The Johnsons have sold over 400,000 Old Trusty's on that plan. Started with 65c capital—built the first Old Trusty for their own use. Their own experiences and the combined experience of their customers are centered in his new 1913 poultry guide. Send your name in to Johnson now and get *your* copy of this great book. Worth a dollar of anybody's money—but free to you without obligation.

Write! Shows over 300 photographs—tells all about the Old Trusty's fine materials and construction. Don't you want the book that hundreds of thousands of farm people help write? Send your name on a postal *now*—address

Johnson—The Incubator Man, Clay Center, Nebr.

$10 Buys 165 Egg National Incubator And Brooder

$9.00 Incubator and $4.00 Brooder for $10. FREIGHT PREPAID East of Rockies. 165 Chick Brooder Alone $4.00

Strong, fireproof, metal case, Automatic heat regulator, Hot water heating system, Double Glass Doors, High, roomy nursery, Reliable non-breakable lamp, Cold-rolled copper water tank, Spacious egg chamber, Very sensitive thermometer, Wide dead air space. Has made many 100% hatches

Brooder has safety lamp. Is roomy and easy to clean.

Order direct from this advertisement. We guarantee satisfaction or you get all your money back quick. Brand new Poultry Book free. Order Now.

NATIONAL INCUBATOR COMPANY, 1327 19th St., Racine, Wis.

GET IT

Miller's "Ideal"—the greatest hatcher that ever came out of a factory. You don't have to be an expert to run it.

Before buying any kind of an incubator, at any price, from anybody, get my 1913 offer on the IDEAL. Last year I broke the record for low price on efficient, dependable incubator. This year I'm going still further.

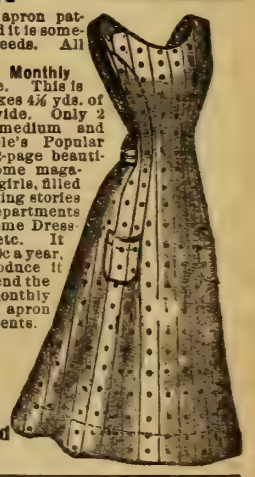
I'm Going to Pay the Freight—Give You An Unqualified Guarantee—Include Everything FREE.

When writing, tell me what size incubator you are interested in and I'll send you my **BIG ILLUSTRATED POULTRY BOOK FREE.** Describes Standard Bred Poultry, tells how to become successful and other valuable information. Easily worth $1.00. Because it contains advertising, you get it FREE. Ask for copy.

J. W. MILLER CO., Box 305 Rockford, Illinois

APRON PATTERN GIVEN

This is the best apron pattern ever offered and it is something every lady needs. All new subscribers to **People's Popular Monthly** will receive one free. This is a prize pattern. Takes 4½ yds. of material one yard wide. Only 2 buttons. Small, medium and large size. People's Popular Monthly is a fine, 32-page beautifully illustrated home magazine for women and girls, filled with bright, interesting stories and well edited departments on Fancy Work, Home Dressmaking, Cooking, etc. It would be cheap at 50c a year, but in order to introduce it to new readers we send the People's Popular Monthly a full year and the apron pattern for only 25 cents. Address,



PEOPLE'S POPULAR MONTHLY,
211 Grand & 3rd
Des Moines, Ia.

commission. The white lime-like substance is the excrement of the insect. If taken in time the trouble is very easily combated, although the shanks will never be just as good as before. Some fowls are more susceptible to attack than others. If, when one of a flock is found to be infected, the other birds' shanks are lightly greased it will prevent contagion.

Without seeing the cock it would be impossible to say how he lost his spurs. If they are removed entirely and smoothly, it is very probable that they have been sawed off. For what purpose, I would not undertake to say. Sometimes when fighting cocks get the hard, horny substance torn entirely from the shank, leaving only a small, pithy substance that mostly dries up, leaving little or no semblance of a spur. Then, too, amongst better breeds of the larger class of fowls I often find that the immense weapons of defense are not so much in evidence as in the days of the mongrel. The domestic fowl is being farther and farther removed from the jungle fowl, that needed weapons for defense and it is natural that with less need of them the size would diminish.

POINTERS.

—Mrs. J. J. Griffith, Lorimor, Iowa, will sell Rose Comb Brown Leghorn pullets and young hens by the dozen at the price named in her advertisement on page 27.

—Wm. Kerr, Box B, Winthrop, Iowa, breeder of Thompson Imperial Ringlets and Bradley and Latham strains of Barred Plymouth Rocks, offers forty surplus cockerels of the Thompson and Bradley strains at $2 to $3 each. He also has fifty cockerel-bred yearling hens and pullets at $2. The sire of this stock scored 91¾. See adver-

TURKEYS.

Mammoth Bronze Turkeys

IF in need of turkeys of size and quality at farmers' prices, write J. D. Smith, Montezuma, Iowa.

Mammoth Bronze Turkeys

WITH SCORE CARDS from 94 to 96¼. Also a few good Silver Laced Wyandotte cockerels. Address Mrs. D. C, Molesberry, Plymouth, Iowa.

MAMMOTH BRONZE TOMS sired by a 50-lb tom. A fine male collie. Registered Holstein cows. Address **E. J. THOMAS, West McHenry, Illinois.**

FOR SALE Pure-bred M. B. Turkey toms and hens choice of a flock of 160 sired by a 40-lb. tom large healthy birds. R. H. Coyle, Cascade, Ia.

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

Mam. Bronze Turkeys Fine young toms and pullets, good size and markings. Prices right. Frank Hickman, R. 2, Leon, Ia.

FOR SALE Bourbon Red turkeys. large, big-boned, strong and vigorous. Address A. P. Lassen, R. 2, Marion, Iowa.

FOR SALE---Large-boned, White Holland toms $4. H. M. Williams, R. 6, Spencer, Iowa.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. **LONGWORTH'S, Polk, Iowa.**

FOR SALE Bourbon Red turkeys. Toms $4.50, hens $3.25. Time limited to two months. Address S. B. Moyle, Hillsboro, Iowa.

Mammoth Bronze Turkey Toms for Sale. Fine birds. Mrs. T. M. Neal, R. 2, Bristow, Iowa.

FOR SALE Choice M. B. turkeys, toms and pullets. Also choice barred P. Rock Cockerels. **Ring Bros., Newton, Iowa.**

FOR SALE---Mammoth Bronze Turkeys Toms $5. Hens $3. At home. Mrs. J. C. Martin, R. 5, Manning, Iowa.

MAMMOTH BRONZE TURKEYS S. C. White Orp. cockerels, Barred Rock cockerels. Mrs. J. A. Campbell, Manning, Ia.

FOR SALE Pure-bred, white winged, Buff or Bourbon Red turkeys. Address Wm. Oakland, Blairsburg, Iowa.

MAMMOTH BRONZE TURKEYS Toms $5, hens $3.50 from 40-lb. sire. **Jennie Efnor, Monroe, Iowa.**

FOR SALE Pure-bred M.B. turkeys, sired by a 42-lb. yearling tom. Write for prices. Sam Thronson, R. 2, Lake Mills, Iowa.

BUFF TURKEYS A few extra fine toms and hens for sale. Mrs. L. C. Dennison, R. 3, Monmouth, Ill.

WHITE HOLLAND TURKEYS ELEPHANT strain. Both sexes. Prices right. Mrs. J. H. Hanlon, Lawler, Ia.

BOURBON Red Turkeys. A few nice toms for sale. Good color, large bone and healthy $4.50 each. W. M. Peterson, Route 3, Corning, Iowa

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. **Foster, Caldwell, Ohio.**

White Holland Turkeys for sale. Big-boned, vigorous birds, reasonable prices. Mrs. J. H. Richardson, Bristow, Ia.

M. B. Turkeys White Wyandotte ckls. Pekin ducks. Prices right. Address Mrs. A. Kitson. Audubon, Iowa

ORPINGTONS.

Fortmann's Single Comb White Orpingtons

ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once **Frank Fortmann, Box 23, Dyersville, Iowa.**

300 S. C. Buff Orpington cockerels and pullets, $1.50 and $3 each. A few exceptionally good birds at $5. Our Buffs won 16 premiums at Marshalltown poultry show. H. Cavell, Haverhill, Iowa.

30 BUFF ORPINGTON COCKERELS I AM offering 30 choice ckls. for sale; popular prices if ordered at once. R. W. Halford, Manning, Ia.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley. Neola. Iowa.

25 S. C. WHITE Orpington ckls. of the Kellerstrass strain for sale at bargain prices. Address M. D. Korns, Hartwick, Ia.

S. C. BUFF and White Orpingtons, Cook and Kellerstrass strains- Few choice cockerels for sale at $2 and $3 each. Mrs. Roy McMullen, Hume, Ill.

Choice Crystal White Single Comb Orpington Ckls. Kellerstrass strain. H. A. Hamilton, Yutan, Neb.

Choice S.C. Buff Orpington ckls., large golden buff birds. Owens' strain. Reasonable prices. Evergreen Poultry Yards, R. 4, Waterloo, Iowa.

CRYSTAL WHITES direct from Kellerstrass ckls. $2, $3, $5. Trios and pens. Eggs, $8 per 100. Also S. C. Buffs. Orpington Farm, Big Rock, Ill.

COCKERELS, Kellerstrass S. C. White. Bred direct from 1st prize winners at Omaha, Sioux City. Nettie Crane, 2114 Ave. C, Council Bluffs, Ia.

EGGS S. C. Buff Orp., 4 club specials, 16 prizes. 3 pens, $10, $5, $3.50; 2 utility flocks, $1. Mating list ready Jan. 15th. E. N. Silker, Epworth, Iowa.

GEESE.

TOULOUSE GEESE B. P. R. cockerels. I am offering 100 choice B. P. Rock cockerels, Easton-Shellenbarger-Thompson strains $1 to $2, P. R. Rock hens and pullets for sale at $12 a dozen. **25 Toulouse Geese, very choicest.** Ganders and hens. Won first and second at Sioux City show. James Cockerton, Whiting, Ia.

tisement on this page and write Kerr.

—F. Bowman, Eldora, Iowa, is offering Rose Comb Brown Leghorn cocks and cockerels for sale in his advertisement on page 27.

—Leo Flynn, New Hartford, Iowa, has some large Pekin ducks and drakes on which he is quoting prices in his advertisement on page 27.

—Large-boned White Holland turkey toms can be obtained from H. M. Williams, Spencer, Iowa, at price named in his advertisement appearing on this page.

—Bourbon Red turkeys, large, big-boned, strong and vigorous birds, are advertised for sale by A. P. Lassen, Marion, Iowa, in his advertisement on this page.

—K. Brunia, Pella, Iowa, is quoting prices on Buff Leghorn cockerels, both Rose and Single Comb, and eggs in season in his advertisement appearing on page 27.

—The Red Poultry Farm, Randalia, Iowa, will guarantee the quality of the Rose Comb Rhode Island Red cockerels that they are offering for sale in their advertisement on page 27.

—Readers of The Homestead desiring to purchase White Orpington eggs should read the advertisement of Ed Leclere, Central City, Iowa, that appears on this page of The Homestead.

—M. D. Korns, Hartwick, Iowa, has twenty-five Single Comb White Orpington cockerels of the Kellerstrass strain which he is offering for sale in his advertisement appearing on this page.

—We wish to direct the attention of our readers to the advertisement of W. I. Mouser, Red Oak, Iowa, offering Rhode Island Reds, both Single and Rose Comb, for sale, that appears on page 27.

—Large and well-barred, full-blooded Plymouth Rock cockerels are offered for sale at a very moderate price in the advertisement of Mrs. M. J. McKenna, Rock Rapids, Iowa, that appears on this page of The Homestead.

—C. H. Drake, Hazleton, Iowa, makes the announcement in his advertisement on page 27 that he must sell his choice flock of Single Comb White Leghorn hens and pullets. On account of removal March 1st Mr. Drake proposes to make special prices for quick sale.

—"I have a choice lot of Rose Comb Brown Leghorn cockerels this year," writes Mrs. G. W. Stetzel, Audubon, Iowa, in furnishing copy for advertisement on page 27. "They are early hatched, farm raised and of a fine laying strain. I have no pullets for sale."

—Mrs. Sophia Rader, Laurel, Iowa, has an advertisement on page 27 offering Single Comb Rhode Island Red cockerels for sale. She writes: "I have a nice lot of cockerels, better than ever, good in size and color and of a good laying strain. Those in need should order now."

—Mrs. James McNally, Victor, Iowa, whose advertisement appears on page 27 of The Homestead, writes: "I have some large, well-marked Barred Plymouth Rocks and Single Comb Red cockerels on hand that I will sell at a bargain to close out at $1.50 to $2. Some of these weigh nine pounds. Orders booked for eggs and baby chicks."

—"I am selling Single Comb White Leghorns of the very best laying strains, healthy, vigorous and pure white, at $10 per dozen," writes Mrs. George Roe, Bellevue, Iowa, whose advertisement appears on page 27. "I also have some pure White Holland turkey toms, big boned, the young ones weighing over twenty-five pounds that I will sell at $5 each."

—"The Silver Laced Wyandottes we are offering for sale," write Glen and Mae McLaughlin, Manning, Iowa, in sending in copy for their advertisement on this page, "are good size, clear color, and have farm range. We breed Silver Laced Wyandottes exclusively and have been doing so for the past twenty years."

—Mrs. E. C. Turner, Griswold, Iowa, in furnishing copy for her advertisement found on this page, writes: "I have a few of my fine White Plymouth Rock cockerels to spare yet. They were scored by Poultry Judge Mills in December, and we have only a very few left at this time. We can furnish score card with each."

—Mrs. Howard R. Moore, Dexter, Ia., in sending copy for her advertisement found on page 27, writes: "These Single Comb Rhode Island Red cockerels are from high-scoring stock, scored by reliable judges of the breed. They are large, healthy birds of good shape and dark, even color, suitable for pure-bred pens, and are of a good laying strain. Satisfaction guaranteed."

—O. C. Bierma advertises Mammoth Bronze turkeys and Rhode Island cockerels on page 27. Mr. Bierma was highly successful at the Des Moines Poultry Show, capturing first prize on tom, first on hen and grand sweepstakes cup for best turkey in the show. Last year he won first and second on pair at the same show. Our readers who want high-class birds should note the fact that special prices on these fowls may be obtained prior to February 15th. Address O. C. Bierma, Altoona, Iowa.

—J. Ross Bachman, Blakesburg, Ia., in furnishing copy for his advertisement on page 27, writes: "We are breeding ten different varieties, of which we make Buff Rocks a specialty. All our birds are raised on free range, so we have nothing but health and vigor in each flock. Our birds are raised on different farms, so we have no trouble with mixed breeds. Our Buff Rock pens will include all our Iowa State Fair, Albia and Ottumwa, Iowa, winners and are surely a fine

PLYMOUTH ROCKS.

EVERGREEN LAWN FARM

M. HUMMEL, Proprietor, MONROE, IOWA,

Has for sale 200 Barred Plymouth Rocks with large bone, finely barred, from high-scoring, first-prize-winning stock. We won 37 prizes at our last showings.

BUFF ROCKS

SPECIALTY breeder and exhibitor for 15 years. Choice cocks, hens and cockerels for sale. Write stating just what you want, what price you will pay and I am sure I can please you for I have the quality. Address **M. E. KRAFT, Brooklyn, Iowa.**

White Plymouth Rock Cockerels! TO close them out by Feb. 10th, am selling at $1 and $2 each. I won 1st and 2d cockerel at Grinnell. They weigh from 7 to 10 lbs. each, good color, shape and nice yellow legs. Order from this ad. They are the kind that will please you. Address **Chas. L. Berry, R. No. 6, Iowa City, Iowa.**

BUFF PLYMOUTH ROCKS BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address **J. O. KOERTH, - Ionia, Iowa.**

Big Barred Rock Cockerels 200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address **Theo. Martin - - Bellevue, Iowa.**

WHITE ROCK COCKERELS FOR SALE

SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Berwick, Iowa.

WHITE ROCK COCKERELS

STRICTLY high-class. Now is the time to place your order for cockerels. Priced at $2.00 to $3.00 each. **Money back if not suited.** Address, **JOHN W. HOUSELOG, Bellevue, Iowa.**

"PARTICULAR" BARRED PLYMOUTH ROCKS THE winning and laying kind. Cockerels $2.00, $3.00 and $5.00 each. Large bone, clear color, deep, narrow barring. Mated trios $5.00 and $8 00; pens $10-$14. Birds returned at my expense if not satisfactory. Address J. M. Detwiler, R. 2, Dunlap, Iowa.

FOR SALE WHITE and PARTRIDGE Plymouth Rocks of the best strains, good size, shape and color. Before you buy write me. My prices are right for quick sale. Address **BERTEL HANSEN, Alta, R. 2, Iowa.**

For Sale Full-blooded Barred Plymouth Rock cockerels. Large and well barred. First prize at the Lyon county fair. $1.50 and $2 each. Address Mrs. M. J. McKenna, Rock Rapids, Iowa.

60 BUFF ROCK COCKERELS for SALE at $1.50 to $5.00. Some splendid birds. Also choice pullets. Address Mrs. P. J. Eggers, Denison, Iowa.

B. P. ROCK CKLS. Big heavy-boned fowls from excellent foundation. Choice markings. $1.25 to $2.50. Address **F. R. BARRETT - CADAMS, NEB.**

BARRED PLYMOUTH ROCKS FOR SALE 200 B. P. Rocks that will please in quality and price. Large and evenly barred. Try us for a square deal. **C. G. GOOD, Ogden, Iowa.**

Barred Plymouth Rock Ckls. and pullets from winners at leading shows. Large birds, fine egg records, from $1 to $5 and satisfaction guaranteed. Address J. F. Davidson, Lamont, Iowa.

THOMPSON Imperial Ringlet and Bradley Bros. pullets $2, ckls. $2 to $3. Stock direct. Eggs in season. Wm. Kerr, Box B, Winthrop, Iowa.

BARRED Plymouth Rock cockerels. E. B. Thompson Ringlet strain. Prices right according to quality. Address Otto Pfeiffer, Gordon, Nebraska.

White Plymouth Rock Ckls scoring 93½ to 94½. Price $5 each for sale yet. Mrs. E. C. Turner, R. 1, Griswold. Ia.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

BUFF PLYMOUTH ROCKS Best breeding. Fine birds. Cockerels $1.50. Pullets $1.00. Eggs $1.50 for 15. W. M. Black, Knoxville, Ia.

BARRED R. ckls. $3 up. Guarantee price right quality considered. Feathers from any section sent on request. Chas. McCaskey, R. 2, Ogden, Ia.

CHOICE Plymouth Rock cockerels. First premium at our county fair. All prices to suit buyers. Address **H. E. SANDEN, OGDEN, IOWA.**

CHOICE Barred Plymouth Rock ckls. for sale. Well barred, from good laying strain. Prices $1.50 to $3 each. Mrs. C. F. Sealock, R. 5, Neola, Iowa.

FINE White Rock cockerels from large, farm-raised, prize-winning stock, at reasonable prices to quick buyers. Mrs. Jas. Pedley, Britt, Iowa.

FOR SALE---W. P. Cockerels at $1.50 Each. Address Moncrief Bros., Center Junction, Iowa.

POINTERS—I have some of the best Buff Rock cockerels I ever raised. Fine, large, healthy birds. Prices right. Address C. J. Henline, Garwin, Iowa.

Barred Plymouth Rock Cockerels Some fine pen headers for sale. Write **Chas. E. Nelson, Boone, Iowa.**

W. P. ROCK Cockerels, White Holland turkeys and Embden ganders for sale at reasonable prices. S. M. Compton, R. 3, Newton, Iowa.

BARRED Plymouth Rock Ckls. Large, well barred, healthy birds. Good laying strain. Reasonable price. Mrs. J. H. Heliman, R. 4, Holstein, Ia.

WHITE ROCK cockerels and pullets $1.00 each. Scored birds scoring 90 to 94, $1.25 to $2.00, from prize winners. Mrs. G. W. Shaw, Monroe, Iowa.

Barred P. Rocks A fine lot of big ckls., even, narrow, deep barred. Also pullets and hens. Best breeding and quality. Orville Jones, York, Neb.

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

W. P. Rocks. Best layers and payers; exhibition and utility stock for sale. Blue Ribbon winners. Write for prices. F. E. Ristrim, Stanhope, Ia.

CKL. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

PLYMOUTH ROCKS.

250 BARRED PLYMOUTH ROCKS FOR SALE Large-boned, nicely marked, sires scoring 90 to 92¾ in show. A few good M.B. turkeys for sale. Large boned and nicely marked. In seven show rings I won 38 1st, 19 2d, 4 3d, 3 4th, 2 5th. Nothing but first-class stock shipped. Prices reasonable. Address J. W. Wagner, Monroe, Iowa.

BARRED ROCK COCKERELS

AS good as they grow. All bred from our Des Moines and state show winners. Heavy bone, fancy color. Prices $2.00 to $5.00. Satisfaction guaranteed. Address **MASON C. OGG, Monroe, Ia.**

100 PURE BRADLEY B. P. R. Ckls. $1 to $5 each, some sired by 1st and color special cock at Des Moines show. Also 75 ckls. bred pullets by same sire. W. E. Ruffcorn, Defiance, Iowa.

HIGH-scoring 30 choice B. P. Rock ckls., a fine lot of big, even, narrow, deep barred. Have raised them for 15 years. Price $1.00 to $2.00 each. Address Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

FOR SALE Extra fine Barred Plymouth Rock ckls. Weight 6 to 9 lbs. Mrs. W. S. Kern, Plainfield, Ia.

GUINEAS.

White Guineas $3.00 pair. They do not stray. Easily raised. Address **Ethel H. Shaw, - Monroe, Iowa.**

WYANDOTTES.

White Wyandottes. My Great Laying Strain

SOME good cockerels at $2 each as long as they last. A few higher. Fine pullets and hens at $1.50 each as long as they last. A few higher. I can mate up pairs, trios and pens to please. My White Wyandottes are bred for beauty and laying quality combined, and if beauty and a good laying strain is desired I certainly can please. Please order direct from this ad, otherwise write me stating just what you want. Why not order today, the breeding season will soon be here. **S. Harr, Riverside, Iowa.**

PURE-BRED WHITE WYANDOTTE COCKERELS

SCORED and utility stock. Also white Holland Turkeys. Eggs in season. Address **A. J. MENEFEE, ADAIR, IOWA.**

A. L. Anderson

Breeder of high-class **GOLDEN AND SILVER LACED WYANDOTTES,** **Indianola, Iowa.** 20 miles south of Des Moines.

Faha's Silver Laced Wyandottes BEST in America. Winners at New York, N. Y., Philadelphia, Pa., Little Rock, Ark., etc. Write for catalog. Frank Faha, Jr., Box 620, Dyersville, Ia.

50 Silver Wyandotte Ckls. Farm raised, from prize-winning stock. Score cards by J. L. Todd. Circulars free. Prices reasonable. John A. Johnson, R. 2, Pilot Mound, Iowa.

Large Strain of Buff Wyandotte Cockerels FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

50 W. Wyandotte cockerels and 50 S. C. Buff Orpington cockerels. They are all good, farm raised stock, weighing up to 9 pounds. Prices reasonable. Address **A. G. Dreher, Audubon, Iowa.**

White Wyandotte Ckls. $2.00 to $10.00. Eggs and chicks. Describe your flock. White Wing Poultry Farm, C294, Perry, Ia.

W. Wydts.; sired by pure Keeler ckls. Write for prices on high-scored ckls. Unscored ckls. $1.50 ea.; hens $1 ea. Mrs. C. A. Robinson, Griswold, Ia.

W Wyandotte Ckls. for sale. Some good ones. Won blue ribbon at Franklin and Butler county shows $1 and $1.50 ea. R. S. Tennyson, Clarksville, Iowa.

Silver Laced Wyandotte cockerels for sale. Choice birds. Prices right. Glen and Mae McLaughlin, R. 5, Manning, Iowa.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

PARTRIDGE WYANDOTTES 50 cockerels, 50 pullets. Buff Wyandottes, cockerels and trios. Prize winners. Thos. L. Morlan, Indianola, Ia.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address **R. B. Rowe, Indianola, Iowa.**

WHITE WYANDOTTES ONLY. Can furnish pens not akin, pullets $1 up, cockerels, $1.50 up. Address J. F. Wilson, Downey, Ia.

SILVER Laced Wyandottes, scored cockerels, hens and pullets for sale. Blue ribbon and cup winners at Dubuque, Dec., 1912. Herm C. Ransom, Ionia, Ia.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

WHITE WYANDOTTE COCKERELS $3, $2, $1.50 each. Mrs. Geo. F. Pierce, Route 4, Sac City, Iowa

White Wyandotte Cockerels $1.50 each. A few Muscovy ducks $1 and $1.50 each. Mrs. T. W. Glass, R. 5, Sac City, Ia.

BUFF WYANDOTTE COCKERELS Farmer's fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

SILVER Laced Wyandotte ckls. for sale. Owing to change in location must close out early at prices that will take them. S. R. Young, Greenville, Ia.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

LEGHORNS.

Rose Comb Brown Leghorns
EXCLUSIVELY.
15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz.$12. Eggs,100,$5; 200, $9. **R. R. Stewart, R. 2, Charles City, Ia.**

SINGLE COMB BROWN LEGHORN
Cockerels and hens. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. **J. A. PENN, Phone 87, ALTA, IOWA**

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address **R. S. Ketcham, Box H, Boonville, Indiana.**

Must Sell My choice flock of S. C. W. Leghorn hens and pullets. Young's strain. As I have to move Mar. 1, will make special prices for quick sale. **C. H. Drake, Hazleton, Iowa.**

S. C. W. LEGHORNS **Cockerels for sale.** Vigorous, free range stock. Scored birds $1.00 to $5.00. Eggs in season. Address W. C. Kimball, R. 1, Shellrock, Iowa.

COCKERELS S. C. W. Leghorn, $1.00 to $2.00 each, 6 for $5.00 if taken soon. Ringlet Bar Rocks $1.50 to $5.00. Satisfaction guaranteed. Address J. Russell Lang, Brooklyn, Iowa.

R. C. W. Leghorns $1 ea. Scored birds scoring 91 to 94 at $1.25, $1.50, from prize-winning stock. Ben R. Poortinga, Monroe, Ia.

FOR SALE Rose Comb Brown Leghorn cocks and cockerels. Write for prices. Address F. Bowman, Eldora, Iowa.

R. C. B. Leghorn Ckls. If taken soon. $1 each or six for $5. Address Mrs. G. W. Stetzel, Audubon, Iowa.

S. C. WHITE LEGHORN ckls. Chalk white and bred to lay. The sweepstake winners. Eggs for hatching. J. M. Williamson, R. 1, Des Moines, Ia.

Buff Leghorn Ckls. $1 and up. Eggs in season, 15 for $1; 100 for $4. Rose and single comb. Address K. Brunia, R. R. 1, Pella, Iowa.

Choice R. C. Brown Leghorn cockerels at $1 each 6 for $5. P. W. Reece, R. 3, Elmore, Minnesota.

S. C. W. Leghorns, extra good birds,$10 per doz. Won 1st and 2d at Maquoketa this fall. Mammoth snow white Holland toms $5 ea. Mrs.Geo.Roe,Bellevue,Ia.

R. C. B. LEGHORN Pullets and young hens for sale from prize-winning stock, $10 per dozen. Address Mrs. J. J. Griffith, Lorimor, Iowa.

ROSE COMB BROWN LEGHORN Cockerels. Choice birds, $1 each. Quality guaranteed. Address Tom Sellers, Vinton, Iowa.

FOR SALE **COLLIE PUPS.** S. C. B. Leghorn cockerels, $1 each or 6 for $5. Mrs. A. N. Bonnett, Birmingham, Iowa.

R. C. White Leghorns. A choice lot of pure white cockerels $1.25 each. Three or more, $1 each. Eggs in season. Mrs. Geo. H. Tutt, Marathon, Iowa.

S. C. W. LEGHORNS. Young's strain, unscored $1, others scoring to 94½ points. Eggs $5 per 100. Mrs. Wilson McIntyre, Red Oak, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. **F. Bollman, Wall Lake, Ia.**

FOR SALE CHOICE LOT OF S. C. W. Leghorn Cockerels. Address **MRS. S. J. PHILSON, - Harlan, Iowa.**

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3,4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

BLACK Langshan ckls. Big boned, farm raised. Satisfaction guaranteed. Unscored 3 for $5. Alex Peterson, Pleasant View Stock Farm, Pomeroy, Ia.

BLACK Langshan ckls., good, big, heavy-boned birds. Cockerels $1.50 each or six for $8.50. Eggs in season. Address J. H. Ravl, Afton, Iowa.

EXTRA BLACK LANGSHAN COCKERELS for sale, $2.00 each or 3 for $5.00. Eggs in season. Mrs. Sarah F. McKeen, Route 1, Sac City, Iowa.

BLACK LANGSHANS Winners at Keosauqua and Ottumwa, 1912. Choice ckls. $1.50 and $2.00. Bert A. Randell, Mt. Zion, Iowa.

BLACK Langshan ckls. scoring from 90 to 94½ winners at Iowa State Fair. These birds are large heavy-boned. Address A. Dearinger, Reasnor, Iowa

DOGS.

SCOTCH COLLIE PUPPIES
HIGH-class puppies, the **best blood** in America, from registerad Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. **T. A. STEVENSON, SHANNON CITY, IOWA**

Collies Choice pups and brood bitches, trained drivers. Sales list free. AIREDALES, for hunters, watch dogs, companions, have no superiors. State your wants. P. L. Savage, St. Charles, Ill.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

BLUE RIBBON STOCK FARM offers for sale some choice Scotch Collie pups of highest breeding. H. C. Mehring, Manson, Iowa.

FOR SALE. A few female Collie pups from reg. parents that are natural heelers. Are ready to go to work. E. M. Filson, Birmingham, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

BABY CHICKS.

BABY CHICKS. Baby chicks and eggs for hatching from 10 varieties of vigorous, farm-ranged birds. Our mammoth coal-heated incubator is the largest in Nebraska. Maplewood Poultry Farm, Exeter, Neb.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls, and pullets for sale. W. W. Vaughn, Marion, Iowa.

bunch of birds. We will have nothing but the best birds in all our pens this season and will give our customers value received."

—S. B. Moyle, Hillsboro, Iowa, is quoting prices on Bourbon Red turkey toms and hens in his advertisement appearing on page 26.

—Barred Plymouth Rock cockerels of the E. B. Thompson Ringlet strain will be sold at right prices, according to quality, by Otto Pfeiffer, Gordon, Neb., as per advertisement on page 26.

—Frank Hickman, Leon, Iowa, has some fine young Mammoth Bronze turkey toms and pullets of good size and markings, that he is offering for sale in his advertisement on page 26.

—At the Franklin and Butler county poultry shows, R. S. Tennyson, Clarksville, Iowa, won the blue ribbon on white Wyandottes. He is offering cockerels of this variety for sale in his advertisement appearing on page 26.

—Scored and unscored cockerels, pure Keeler White Wyandottes, are for sale at reasonable prices by Mrs. C. A. Robinson, Griswold, Iowa. Her advertisement appears on page 26. She also quotes prices on White Wyandotte hens.

—Ethel H. Shaw, Monroe, Iowa, is offering White Guineas for sale in her advertisement on page 26. This variety of guineas do not stray and are easily raised. The price at which they can be secured is named in the advertisement.

—Ben R. Poortinga, Monroe, Iowa, is offering Rose Comb White Leghorns for sale in his advertisement on this page. He writes that he has the nicest flock of birds he has ever had and has won a number of prizes at the leading fairs.

—The Ivory White Poultry Farm, Greene, Iowa, have some very nice birds to offer the public at very reasonable prices. Satisfaction guaranteed in all cases. Look up their advertisement on this page and write your wants, mentioning The Homestead.

—W. F. Holcomb, manager of the Nebraska Poultry Company, Clay Center, Neb., has an advertisement on this page quoting prices on White Orpington, Indian Runner duck, turkey and geese eggs. This company breeds all the leading varieties of standard poultry, Plymouth Rocks being their leaders. They will sell stock of the highest quality at "let-live" prices. Write them for descriptive circulars.

—There is offered for sale in the advertisement of J. P. Hunt, Mount Pleasant, Iowa, appearing on this page of The Homestead, five Holland turkey toms and two African ganders. Mr. Hunt writes: "It is getting late for mating geese. Anyone sending soon will get a very fine bird for $6. These geese are heavy feathered, tall and swan-like in appearance and make a beauty spot in any poultry yard or pasture."

—O. A. Knerr, Beaver Crossing, Neb., is offering some very choice Rose Comb Rhode Island Red cockerels and they are priced very low for the class of stock. Also a choice lot of stuff in the Single Comb pullet line is offered. Mr. Knerr is one of the great Rhode Island Red breeders of the country and is deserving of a good class of trade. Send in your orders at once and when you write mention this paper. See this page.

—Buff Orpington eggs direct from the Cook strain are advertised for sale by W. L. Bardsley, Neola, Iowa, on page 26. Mr. Bardsley has four pens mated for this season from which he can furnish eggs ranging in price from $10 to $1.50 per sitting. He also has a utility flock from which he will sell eggs at $1 per sitting or $7 per 100. To those interested and wishing other information Mr. Bardsley will send a circular free.

—W. A. Hasebrook, Bladen, Neb., a breeder of Single Comb Rhode Island Reds, is offering some choice breeding stock of exhibition quality for sale. He is naming prices on this class of fowls that are hard to duplicate and we believe it would be a good plan to write for these prices at once. Eggs for hatching are also for sale. Please write for prices at once and when doing so mention this paper. See this page for advertisement.

—R. S. Ketcham, Boonville, Ind., in furnishing copy for his advertisement found on this page, writes: 'I have as fine a flock of Single Comb White Leghorns as can be found in the state. Some of the birds I produce will win in any show. Besides producing high-class exhibition specimens I have developed a strain that cannot be beaten as fall and winter layers. Will prepay the express on shipments of eggs and guarantee every egg to be fertile." Those needing foundation stock to start with or wanting to introduce new blood could not do better than give Mr. Ketcham an order.

—White Leghorns that are chalk white are offered for sale by J. M. Williamson, proprietor of Leghorn Hill Poultry Farm, on the Urbandale car line, Des Moines, Iowa, in his advertisement appearing on this page. Mr. Williamson is one of the oldest and best breeders in the state, having been a breeder for thirty-two years and an associate of B. N. Pierce, one of the makers of the Standard. He knows how to breed prize winners, as his record at the state fair last fall proved when he won first on cock, first on hen, first and second on cockerel, first and second on pullet and first and second on pen. He still has a few very choice cockerels to sell and will have the best matings for eggs this year he has ever had. Write him for prices and circular. A representative of The Homestead has seen his stock and knows it is fine.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
EXCLUSIVELY.
STOCK AND EGGS SHIPPED ON APPROVAL
Score Card by Shellabarger Accompanies Each Bird.
YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city. **HENRY G. WALKER, IOWA CITY, IA.**

R. C. RHODE ISLAND REDS
I STILL have a number of those large-boned, vigorous, farm-raised cockerels for sale, bred from a heavy laying, prize-winning strain. Scored and unscored. Write me for prices on eggs and baby chicks before you place your order for the coming season. Two pens headed by 1st prize winners, besides a fine farm range flock. Prices low as the lowest. Address **H. E. HUSTON, Iowa Falls, Iowa.**

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

ROSE COMB R. I. RED COCKERELS
BRED from prize-winning, good laying strains. Prime birds, farm range, closing out $1.50 to $2. Special reduction on four or more. Write today. **W. W. Forbes, Box 41, Jefferson, Iowa.**

Single Co nb Reds
BRILLIANT red strain. Reduced price. Need room. Strong, vigorous cocke. ls $1, $2, $3 and up. Pullets $11 doz. and up. Trios and pens mated. Mrs. Francis Culver, Culverdale Farm, Red Oak, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

Mouser's Reds (Both combs.) Winners in leading shows. Stock scoring to 93½. Mated trios and pens at $10 to $25, few higher. Eggs for hatching. W. I. Mouser, R. 5, Red Oak, Ia.

R. & S. C. R. I. REDS for sale. Choice cockerels and few pullets. Also eggs from choice pens. When you buy here you get the best. O. A. Knerr, Beaver Crossing, Nebraska.

R. C. RHODE ISLAND REDS
Big-bone, vigorous cockerels at reduced prices. Baby chicks and eggs. F. N. Blake, Maquoketa, Iowa.

R. C. R. I. Red Ckls. Sale prices show. Utility $2 up. Quality guaranteed. Red Poultry Farm, Randalia, Iowa.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock,75c per 15, $4 per 100. Mrs. Charles Belz, Conrad. Iowa.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia.

ROSE AND SINGLE COMB Rhode Island Red cockerels $1 each. Address **Mrs. T. O'Boyle, Toronto, Iowa.**

S. C. R. I. Red Cockerels $1.50 up. Large healthy birds. Address **Mrs. Sophia Rader, Laurel, Iowa.**

S. C. R. I. Red Ckls. From high-scoring stock, large, vigorous, rich red birds. Prices reasonable. Mrs. Howard R. Moore, R. 1, Dexter, Ia.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

ROSE C. Red ckls. $2.50, 3 cock birds $3 each. Strong, vigorous, dark red birds. Ancona ckls., hens, pullets $1.50 to $3. Eggs March 1st. J. E. Kafer, Rolfe, Ia.

REMOVAL SALE Sold my place and will sell S.C.R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

50 S. C. R. Red ckls. $1 each. Birds scoring 90 to 93 $1.50 to $2 each. From heavy laying, typical shaped strain. **Jennie Ebur, Monroe, Iowa.**

S. C. R. I. RED COCKERELS FOR SALE; Also eggs in season. Address **M. E. Edwards, Route 2, Box 18, Walnut, Ia.**

DUCKS.

30 Good Drakes Left
SIRED by drakes weighing 10-11 pounds, dams 9 pounds. Scored from 95 to 97, $2 each, three for $5. Address **JOHN M. HALL, Williams, Iowa**

FOR SALE Large Pekin ducks and drakes, selected from large flock. Prices $2.00 to $2.50 each. Address Leo Flynn, New Hartford, Iowa.

I. R. ducks, both fawn and white, and the English penciled. Special prices on eggs for Feb. and March orders. Nishna Collie Kennels, Oakland, Ia.

FAWN and White I. Runners. Unrelated trio $5. Females $2 each. Write for prices on high-scored drakes. Address Mrs. C. A. Robinson, Griswold, Ia.

INDIAN RUNNER DUCKS $1.50 each. Rheinhard strain. Address **Mrs. G. W. SHAW, Monroe, Iowa.**

PEKIN DUCKS Extra large No. 1 laying strain. Hens, $1.50; Drakes, $1.50; young 9-lb. drakes, $3. Mated trio, $4.50. Edward Meyer, Dyersville, Ia

BRAHMAS.

LIGHT BRAHMA COCKERELS
THEY have heavy bone and good markings. Have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address **FRANK P. HEALY, Bedford, Iowa.**

Light Brahma Cockerels
BETTER THAN EVER. Large, vigorous, well-marked birds. Eggs in season. Address **FRANK A. JOHN, - Bedford, Iowa.**

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. **Frank Johnson, Monroe, Iowa.**

HAMBURGS.

Closing-Out Sale Of Silver Spangled Hamburgs. State fair winners. $1.00 each. F. L. Reinhard & Son, Ottumwa, Iowa.

MISCELLANEOUS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK
EGGS $6 per hundred. Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let live prices. Write for descriptive circular. Address **W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.**

StraterBros., Monroe, Ia.
FOR SALE. MONSTER MAMMOTH BRONZE TURKEYS, sired by Iowa King, score 98, and 400 Barred Plymouth Rocks, sired by a son of the Chicago first prize winner, that have the size and quality. **PRICES REASONABLE.**

FINE THOROUGHBRED POULTRY
40 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 15th Annual Poultry Book. Address **R. Neubert, Box 807, Mankato, Minn.**

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. **E. & J. W. Trettin, Grafton, Iowa.**

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Breeding Horses on the Farm for the Market.

By Prof. E. A. Trobridge, Missouri Agricultural College.

THE production of horses in the United States has come to be one of the important branches of agricultural production. Because of the annual value of the horses produced and the profit which may accrue therefrom it is of the utmost importance that the best methods of both breeding and development be used. The production of horses works upon such a system that the profit or loss does not appear as directly traceable to the industry as it does in the case of meat-producing animals. This is because of the fact that the horse not only yields a profit as a salable product, but performs the labor upon the average farm. A careful study of the situation as it exists today reveals the fact that while considerable improvement has been made in the horse produced in this country there still exists an opportunity for greater improvement and thereby a greater profit.

Unquestionably one of the greatest difficulties which stands in the way of the greater profit from this line of agricultural production is a lack of acquaintance on the part of the producer with the market standards. Unfortunately the fault in this case cannot be laid at the door of the buyer. His demands exist for certain classes of horses. The actual value placed upon a given horse is made by his capacity to meet a certain demand. The demand on the market exists for given types of horses and is comparatively stable, but this is not the case with the producer. On the contrary, the man who produces the horses makes use of those animals on hand. If the horses are large he uses them as best he can. If they are small he does the same thing. It is quite probable that a little closer attention to the types of horses used and produced would not only yield a more salable market horse, but in many cases also a type of horse which could more efficiently perform ordinary farm labor. While a casual glance at market quotations shows a large number of so-called market classes, yet a closer study of the same quotations reveals the fact that there are only a few really standard classes. Those standard classes in the main are: draft horses, carriage horses, roadsters and saddlers. The other classes consist of those horses which do not fill any of the four above-named market specifications and consequently fall between or below them. Observation of the prices will show that the really high prices are received only for the high-class drafters, carriage roadsters or saddle horses.

If breeders of horses are producing horses for their own use on their own farms or for their own particular kind of work, they ought to be able to discover the type of horse that best suits their needs. It is hardly logical for any man to attempt to dictate or advise in the case just mentioned. Yet, in the case of the average producer of horses that are to sell on the open market, and in many cases for these horses to be used at home, a few suggestions may serve a good purpose.

A visit to a great city with the idea in view of carefully studying the types of horses used and thereby acquainting one's self with the types of horses demanded from the producer, proves valuable to any man. No better place than the Union Stock Yards can be selected for the observation of horses and the types in greatest demand on the market. To the country horseman in the Union Stock Yards, one of the most noticeable things is the condition in which the draft horses are kept. These teams which haul the wagons for the packing houses and extensive transfer firms are in higher condition so far as flesh is concerned than the average farm horse. An investigation as to the cause of these horses being kept in high condition reveals as a reason the fact that weight is of the utmost importance where horses are to be worked over comparatively smooth pavements. On such streets a horse's greatest ability to pull comes from his own weight, because of the fact that he has no opportunity to get a good, firm footing and exert his muscles. No more striking example of the value of weight in draft horses can be had than this. Another noticeable feature of the draft horses is the fact that those which stand the wear and tear best and have been in service longest are those with good feet and legs. A casual investigation shows that with the great weight necessary and the hard streets which are used, a good set of feet and legs is absolutely essential to longevity of service in draft horses. The same general conditions apply to light horses being used on the streets of our cities, for pleasure or business purposes. They are of a comparatively uniform size and type. They are horses possessing an ability to get over the ground at a reasonable average rate of speed. They are well broken and possess a conformation showing constitution and vigor. If they have lasted any length of time under the conditions which obtain in our cities they possess the most desirable quality of feet and legs.

While there are many unsound horses seen passing through our markets and found on the streets of our cities, the sound ones are decidedly preferable. This is a factor even more important among city horses than among farm horses, because of the fact that the horses used for city work yield their only income through the work which they perform. Any unsoundness, therefore, which in any way hinders the service which they can render, greatly decreases their value. Farm horses which possess some unsoundnesses can still do much farm work, and in the case of mares they can be used for breeding purposes. One does not argue that the use of unsound mares is advisable, yet surprisingly large numbers of mares will be found performing just this function on the average farm.

In order to make the business of horse production yield the greatest profit, then, it is highly advisable to give the matter of markets a close consideration. It is equally important that we give some attention to the horses from which these horses are to come—the foundation of stock out of which we have to build the horses of the future.

The high-class drafter is the horse with size, substance, constitution, quality, action and ability to haul heavy loads over hard streets or roads.

High-class carriage horses are composed of those individuals which possess smooth, evenly turned, symmetrical conformation with ample quality and true, high action both in front and behind. Excessive speed is not necessary. Since the principal function of carriage horses is to carry good harness, haul attractive vehicles, and to make as good an appearance as possible, beauty and symmetry are of particular importance. Size is required up to the point of being able to haul a carriage or other pleasure vehicle.

The high-class roadster or American trotting horse is the horse of good conformation and quality, with considerable speed and the ability to get over the ground for comparatively long distances at a rapid rate. Excessively high action is not desired in this type of a horse. The most convenient size seems to be fifteen to sixteen hands, with weight ranging from 1,000 to 1,150.

The saddle horse of either the three or the five-gaited variety must be beautiful in his conformation, showing more quality than any other type of horse which goes to the market. His head must be clean cut and definite, his neck long and properly set on his body, his withers narrow and comparatively high, his back strong and his rump long and level, and with a well-carried tail. In action the three-gaited horse must show the walk, trot and canter, while the five-gaited horse, in addition to these three gaits, must

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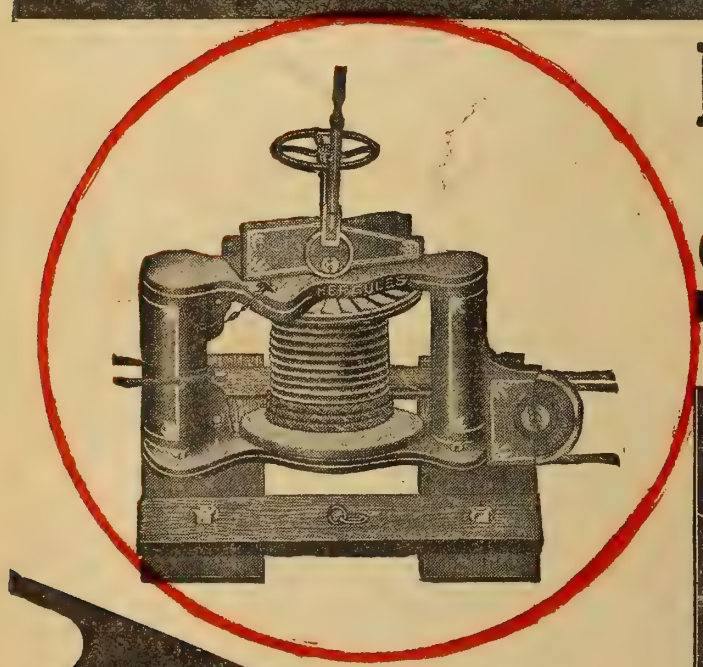

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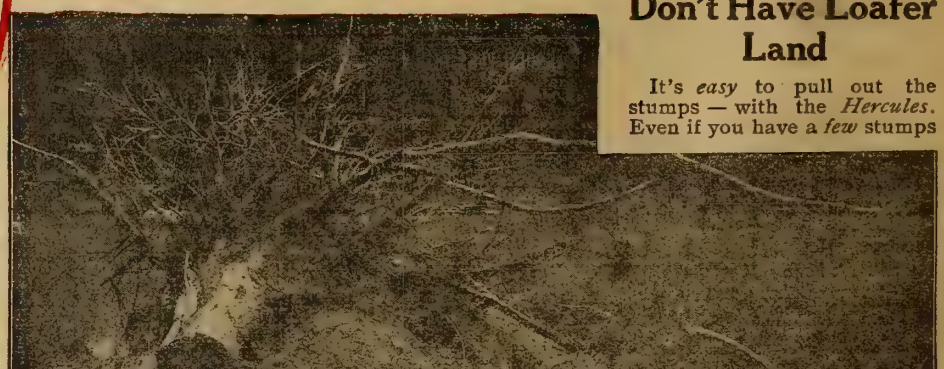

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In all of the above classes, and in fact with any horse that goes to market, soundness is important. Horses sell best between the ages of five and eight years and usually solid colors are preferred. Well-broken horses are at a premium, particularly in the saddle and harness classes. A lack of attention to these points often makes a difference between profit and loss when horses are shipped to our city markets.

The question next arises as to what available material exists for the production of horses of the above-named classes. The general improvement which must occur in any given line of live stock production must come largely through the use of good sires, because of a sire's effect upon such a comparatively large number of individuals of each generation. The use of inferior, nondescript sires while yet practiced to some extent, has long since been found to be one of the factors which tends to decrease the profit, hence in the selection of sires we are forced to look to the ranks of registered stallions.

We find, upon investigation, that the breeds of horses divide themselves much the same way as do the market grades and classes. Practically none of the horses which go on the market to sell are registered horses. They are in most cases horses of more or less mixed breeding, and at best only high grades of a given breed. This fact points to the mare stock which exists in the country. It consists of native and grade mares approaching the standard of the high-class market horses in some cases, closely, in others only remotely or scarcely at all. With this class of mares and stallions from the ranks of the good registered horses their future production will yield the greatest profit.

There are five principal breeds of draft horses, viz: Percherons, English Shires, Belgians, Clydesdales and Suffolk Punch. Good individuals of any one of these breeds may be used to produce high-class draft horses, and the inferior stallions of any of these breeds should be discarded as quickly as the unregistered inferior stallion. It is highly advisable in most cases that these breeds be maintained separate and not crossed back and forth. Cross breeding among the breeds of draft horses tends to break up type and leads to a lack of uniformity.

For the production of high-class carriage horses or heavy harness horses, the American trotting stallion of proper type, quality and action and the Hackney have met with the greatest success in this country.

The roadster and the American trotter are the result of the use of good sires from the breed of American trotting horses. This breed has been developed in our own country, has been developed particularly for use in this country. Consequently other breeds are handicapped in competing with them in the production of this type of horses, and comparatively no other blood appears in our road horses and trotters than that of the American trotting horse.

The three-gaited saddle horse has been produced by different systems of breeding. Some of them have carried portions of Hackney blood, some have been American trotting horses, still some others of thoroughbred lineage and more frequently are they found to trace to American saddle horses. The type of horse demanded is that of extreme finish, quality and beauty, as well as intelligence, and these characters seem to be more readily obtained through the use of American saddle horses. The five-gaited horse has only one principal source of lineage, viz: The American breed developed for that purpose.

In the use of sires of these various breeds many horses will appear as offspring which do not possess the desirable characteristics to the marked degree that is found in their sires. This may be due in some cases to the fact that the stallions are not prepotent, but in the majority of cases it is due to the fact that they have been mated with native mares of more or less indiscriminate lineage. As time goes on it is to be supposed that the mare stock of the country will be "graded up" in one line or the other until they more nearly approach the type of high-priced horses on the market. When this is the case the use of high-class stallions of similar breeds will lead to a more certain production of a high-class lot of market horses.

It is evident that there is not a recognized breed of horses with which to supply each of the market grades. The question may be asked as to why this is the case, but a casual study of the situation will bring to light the fact that many of the less stable and cheaper classes of horses are not demanded in large enough numbers to make the establishment of a breed for that purpose worth while. The fact will also present itself that by the time a breed could be established, (and this would take from twenty-five to fifty years at least), the demand for that type of horse might have become extinct. Time has proven that the demand for the five principal classes named above is stable and the grades of these various breeds will supply the demand of practically all of the market grades and classes, hence the advisability of the establishment of a new breed to meet any of these minor demands would be questionable.

In conclusion it can be said that in our horse production it has proven more profitable to aim at the production of horses which will meet a constant, steady demand at comparatively high average prices. In so doing failures will be all too frequent. An important feature in this scheme of production is the gradual "grading up" of the producing mares throughout the country toward one or the other of these types. This can be accomplished more rapidly if the breeds are kept entirely separate. The man who starts out by using a Percheron sire will find it profitable in the long run to continue using a Percheron sire for several generations. This will not only result in the production of a high-class lot of market horses, but an excellent lot of grade mares for breeding purposes. Lastly, the sires used should be only the very best that can be secured in a given breed and only high-class registered sires should be used, if the best results are to be expected. While this system of production is comparatively simple, it has been carried out with remarkable success by many men and the best proof of its value is the fact that those men who have followed the practices herein named longest are continuing the same practices because they have received satisfactory profits.

THE USE OF SERUM FOR CHOLERA.

To the Editor

On the fifth day of June, 1912, we vaccinated 105 head of hogs with state serum, single method. We did not lose a single hog, but abscesses formed on some and we had to open these. As we wished to find out whether the treatment was a success we took two of our hogs to a neighbor's three miles away and put them with his herd which had the cholera. These two were the only ones that lived out of his herd of sixty hogs. My brother had his hogs treated with the double treatment. Although they were fine-looking hogs when treated he has lost seventeen out of fifty-six at the present writing.

We think the single treatment is all right, but the double one is a failure, judging not only by this experience, but by the experience of breeders with whom we have talked at shows.

According to our understanding they want only a state veterinarian or his assistant to administer serums, but we think there are some veterinarians more capable of handling the serum than the assistant. In some localities the poorest veterinarians are appointed assistants. We have always secured the services of a veterinarian from our home town and never had any bad results. In our opinion the fault is in the serum, as a rule, and not with the veterinarian. F. Bieth & Son.

Look over the drain tiling early. Rats, rabbits and other small animals often work up the soil and clog these outlets, or clods crowd into them. Conditions sometimes cause the tiling to collapse and crumble in. When the spring thaw sets in any of these accidents will allow the land to be soaked like a sponge unless these obstructions be removed and an open passage provided for the water.

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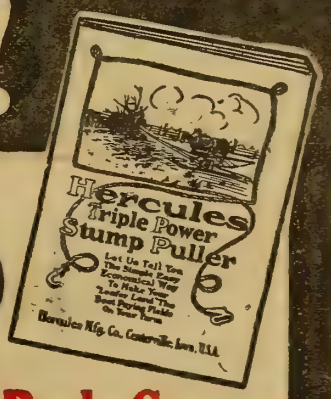

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WITH THE EDITOR.

A noble life leaves its fiber in the fabric of the world.

When speaking of life we mean existence on this physical plane. It is apparent sometimes that "life is not the sweetest gift God gives His friends." When the body is consumed by some terrible disease and the nerves racked by continuous pain, sometimes what we call death is a gracious release. It was so with one dear to us all, our friend Mrs. F. W. Vanderhoef, who has entered on the larger life of those who drop the mantle of the body.

As the friends know, Mrs. Vanderhoef had for some time been a sufferer from an incurable disease. She knew that her days were numbered, but her courage was undaunted and her love as untiring as ever. Her interest in our Home Department was unabated, as her last message abundantly testified.

Her friendship for its editor was equally warm and when her arm became powerless her heart still sent messages of love. At the last, when it became evident that she was soon to go hence, a letter of farewell was dispatched. Next day a voice not to be denied whispered: "Send Mrs. Vanderhoef 'Crossing The Bar.'" So with a heart filled to overflow with tenderness the poem was copied and to our friend's closing ears wafted the music of Tennyson's immortal lines:

Sunset and evening star,
And one clear call for me!
And may there be no moaning of the bar,
When I put out to sea,

But such a tide as moving seems asleep,
Too full for sound or foam,
When that which drew from out the boundless deep
Turns home again.

Twilight and evening bell
And after that the dark.
And may there be no sadness of farewell
When I embark;

For though from out our bourne of Time and Place
The flood may bear me far,
I hope to see my Pilot face to face
When I have crossed the bar.

The next word from Strool brought the news that death had called Mrs. Frank W. Vanderhoef.

The parting is sad, the loss is great, but we cannot grieve that our friend's suffering is ended; rather should we rejoice that her pilgrimage has ended and that she has entered into rest. It is not the Home Department custom to comment upon the passing of its members, but Mrs. Vanderhoef was with us so long, she was so well known and she was so beloved that an appreciation seems fitting. It seems fitting too that a fellow member and an old-time friend should have the privilege of paying tribute to her whom we all love. Mrs. Sophie C. Liland speaks for us all in what follows:

A letter, a brief note from a sorrowing daughter lies before me, received today, and I read: "Mother left us for the better world after many months of intense suffering, but oh, it is so hard for us to let her go." It was written by Mrs. Louise Swanson, of Strool, S. D., and "mother" was our own beloved Mrs. Frank W. Vanderhoef, a member of our home for many long years, one of the dear, helpful sisters who helped make it a place where we may come for advice, instruction, sympathy and entertainment.

Frank W. Vanderhoef was not a "pillar in the church." I do not know whether she was affiliated with any so-called denomination, for in our long acquaintance and close friendship and heart to heart correspondence, church was never mentioned, but she was one in whom the Lord delighteth, for she constantly and continually preached the gospel of cheerfulness and the religion of kindness and patience, which makes our belief in goodness strong. When I first knew Mrs. Vanderhoef she was an Iowa woman and it was at the time when "Maude Meredith" was the housekeeper in our home, and I wrote as "Eugene Bassett." From Iowa she moved to Montrose, S. D., from there to White Rock in the same state, and it was while there that the husband of her youth died very suddenly in a hospital in Minneapolis. The body was brought home to her and laid to rest in that tent "whose low green curtain ne'er swings outward," and she was left to fight the battle of the pioneer alone. With three sons and a daughter she went to Strool in the far western South Dakota and commenced all over, that her children might be near her. The winter following she accompanied her mother to Berkeley, Cal., where developed the dread cancer. We know how helpful her letters have always been, her last one written after two dreadful operations in which she told us how much her children helped her in the unfolding of character and strength of purpose. But it was in the personal letters I knew her best; how she taught school, carrying her younger children with her; how she was the prime mover in the neighborhood circulating library in that sparsely settled country, when the best books of all the settlers were gathered together and went the rounds of the primitive homes; how little socials were given and one book after another was added to this collection; the story of her bravery and courage during drouth when want and suffering were paramount in the Dakotas, when she an invalid practically and really sat in bed for weeks and sewed and planned for her less fortunate neighbors. I treasure the dear letter of sympathy written me from a heart that knew, when my own dear soldier husband was called by the Great Commander to his eternal peace. She was the woman one could go to in sorrow, in trouble, and find consolation and support, and withal she found time to visit our home with her cheery, helpful talks.

And what a legacy she has left us and her family of devoted, loving children. The memory of a home where love reigned, a comradeship with "mother" that the four sons can never forget; the sympathy and companionship and "chummy" relationship existing with the two daughters, and the tender, protecting, superior care given to the dear little grandchildren in a land forty miles from a railroad and six to the nearest doctor. We who live in close communication by telephone, automobile and all the modern facilities for comfort can hardly comprehend the privations of those who are opening up the great "Far West." The real record of her life and its value cannot be accumulated and tabulated in verbal statements. The impress of her life is stamped on every life with which she came in contact. Here a thought imparted, a fact impressed, and in some other life an ideal gained by her noble living. And so hundreds of lives will move on a higher plane because Frank W. Vanderhoef has lived. Heaven and eternity alone can reveal what she did for and was to others in her genuine, unassuming way.

We of our home will cherish her memory as we shall miss her cheery visits, but we know she has "crossed the bar;" that she has seen her "Pilot face to face" and joined her husband in that land where there shall be no more going out forever; and while we shed tears in sympathy with loved ones bereft, for thee, kind friend and dear sister, we will sing the songs of victory, and rejoice in thy great triumph, and so hail and farewell.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Not in the clamor of the crowded street,
Not in the shouts and plaudits of the throng,
But in ourselves are triumph and defeat.

The heights by great men reached and kept,
Were not attained by sudden flight;
But they, while their companions slept,
Were toiling upwards in the night.

But He, who knows our frame, is just,
Merciful and compassionate,
And full of sweet assurances
And hope for all the language is
That He remembereth we are dust.
—Snowbound.

The problem of character is the problem ultimately of self-control.—J. R. Lowell.

Character gives splendor to youth and awe to wrinkled skin and gray hairs.—R. W. Emerson.

YOU OUGHT TO KNOW.

It is becoming customary for the farm boys and girls to go to the moving picture show when in town. Therefore the farm parents should interest themselves about the character of the films shown and co-operate with the city fathers and mothers about the censorship of the place. Has your nearest town a moving picture show? If so, do you know the character of the pictures being shown? If not, you ought to know.

AROUND THE HOUSE.

A shoe horn is a great help when putting on children's rubbers.

Get the kindling ready the night before. It is a real pleasure, these cold mornings, to find a well-filled basket all ready.

Do not waste time and energy trying to wash the bean pot the same day it is emptied. Put it in a pan of water for a day and then it will clean easily.

If you want to make the very best coffee, free from grounds and which will need no straining, try the experiment of putting it in a little muslin bag before placing it in the pot. You will be surprised at the result.

The cold strikes up through a mattress that just rests on springs, and makes one cold in bed at night. Lay several thicknesses of newspaper over the springs; this will keep out the cold and save the mattress from wear.

IN THE KITCHEN.

Codfish Cakes—Wash one pound of salt codfish (the whole fish is decidedly preferable to the boneless codfish bought in packages), put in cold water to soak for three hours, then place over the fire in fresh water, bring to boiling point and strain. Pick into fine shreds. To each cupful of codfish thus shredded add one cupful freshly boiled potatoes, one egg, small pieces of butter, a tablespoonful of milk or cream, and pepper to season. Mold into cakes, dip lightly in flour, brown in oil or butter and serve piping hot.

Celery Soup—A delicious soup, which has the further merit of being cheap and easily prepared. Enough for four people costs about ten cents. Take half a bunch of celery, using root and outer stalks, which are the strongest in flavor. Boil these about three-quarters of an hour with a little chopped onion. When soft press it through a sieve and add a pint of milk. When about to boil add a tablespoonful of flour and cook till it thickens, stirring all the time, and at the last add a tablespoonful of butter. Serve with croutons of bread or oyster crackers.

Oatmeal Bread (fine for children)—Two cupfuls of oatmeal, one cupful of Indian meal, eight pints of boiling water, one tablespoonful of salt, a dessertspoonful of sugar, one cake of yeast, flour for stiff batter, one cupful of raisins or nuts. Mix oatmeal, cornmeal, sugar and salt together well and pour into a hole in the center the boiling water, stirring the dry mixture down into it with a wooden spoon. Cover with a cloth and let it stand until it is lukewarm. Dissolve the yeast cake in warm water and beat into the batter with a cupful of flour or enough for a tolerably stiff batter.

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Let this sponge rise until it is light. Then work in more flour if needed to make dough as stiff as may be stirred; beat in the raisins or nuts and turn into pans for the last rising. Bake three-quarters of an hour.

AMONG OURSELVES.

Before the holidays "A Bachelor" interested us with his views regarding enforced church and Sunday school going. The replies that his argument brought forth had to be laid aside until we had left the turn of the year behind us. Today we will examine the points that others have to present on the negative side of the question.

As the writer was one of our men friends "Among Ourselves," your editor thought best to have other of our men attendants make reply to his arguments. And first we will hear some historical arguments by Bill B. Taylor, who thinks:

Mr. "B" is no doubt a good Christian as he sees things, but he seems not to be very conversant as to history of "church" and compulsory laws. I should be pleased to go back in history a few thousand years and take up the story of the different nations and "religions" that have tried compulsory worship law, but space would probably not be allowed me. Mr. "B" should remember that our country ("this glorious land of the free") began with just such laws as he proposes, and, if he will study the early histories of the colonies of the now United States of America, he will learn that those laws were a detriment instead of a benefit. The old Puritan laws (which afterward developed into the blue laws) were such. Sunday began at sundown Saturday and continued until sundown Sunday. There one went to church Sunday morning and listened to a long, dry and idiotic sermon, and then with an hour's rest—wandering among the graves of the uninteresting dead—went back to the church for another long sermon of brimstone and torment. Did this produce good? No! Quite to the contrary. It turned some of the best minds of that period into the greatest and most convincing infidels the world has ever known. Mr. "B" says: "The human family is much like a family of children, and like to do as they please, but do not always please to do well, so we should have laws to make them do." This is rather confusing philosophy when we remember that the very same children make the laws they are to be governed by! The law Mr. "B" mentions would be invalid and unconstitutional under present conditions. Mr. "B" says "we have laws, forcing Sunday observance." In general we have no such a thing! There are some municipal laws to that effect, but they are in force only by local consent. But supposing we had the law for compulsory worship, how long would it be before the strongest church would want (and get it, too) a law compelling everyone to attend or at least pay tribute to them? You say this could not happen, but it would happen. It has been the outcome always, where church rules were forced on a people. Then what follows? Slavery, then war! This is one of the prime causes of the war in the Balkans today. What we need most is more happy and beautiful homes. Not beautiful in the sense of riches, but in the wealth of love, companionship and forbearance.

Another of our men, G. B. Thompson, examines this subject from two widely different standpoints. He raises the question, "Is Sunday a religious or a civil institution?"

If Sunday is a religious institution, then the state can never properly have anything to say as to its observance; for it is not the province of the state to settle religious questions, and command the observance of divine precepts. It might be proper for an ecclesiastical council to give consideration to such matters, but the function of the state is not ecclesiastical, but purely civil. Religion is a thing of the heart. It is the personal relation between man and his Creator, and for it we are amenable nowhere, except at the tribunal of the Universal Judge. Because, therefore, Sunday is an institution of the church, not of the state, and its observance is a religious act, congress can never rightfully pass any law regulating its observance. To parry the force of this, however, the claim is advanced that Sunday is not a religious, but a civil institution; and, as the state should deal with civil matters, it should regulate the observance of the day. But if Sunday is a civil institution, why should its observance be made compulsory? We have holidays which are purely civil institutions; for example, Washington's birthday, the Fourth of July, and other legal holidays. But who ever heard of the observance of these days being made compulsory? When has a bill ever been introduced into any national or state legislature specifying how these days should be observed, and closing up all shops and business houses and places of recreation, under penalty of civil law? All would resent such a step and deem it tyrannical. But if Sunday is a civil institution, it is merely a holiday, and should be dealt with the same as other holidays. Upon whichever horn of this dilemma so-called national reformers impale themselves, it is equally fatal to their theory and emphasizes the truth that legislation concerning Sunday is not within the province of the state.

One more of our men writers takes up the discussion. "Illinan" evidently is practical. Time and place do make differences, and it is a matter of regret that those who desire to join with others in this matter of Sunday observance are, by the necessities of their location, means of getting about, and the state of the weather, denied what is longed for. There is no greater question to be solved in our United States than this—a social life for all given in due proportion of quality and quantity:

I was reading what "Bachelor" wrote. It was a good piece, but I do not agree with "Bachelor," for he cannot practice what he preaches because he hasn't a family to raise. Would a law compelling people to go to church make them better? Would they love God? You cannot make a person love either good or God; one must do that one's self. You can help in different ways, but not make, for that belongs to the plan of God. "If any man wishes to come after me, let him deny himself and take up his cross and follow me." You don't know, "Bachelor," how hard it is to get children ready and go three or four miles to Sunday school, but I do. We went because we loved God; wanted to be with God's people, and we try to raise our children in the "straight and narrow way," so that they will not depart from it in their old age. I don't think I would have succeeded in going if the law of man had tried to make me go. There are rural places where it is too far to go to church; where it is five and six, even seven or more miles to any church. In summer they have Sunday school, but it dies out in winter for lack of interest. If some preacher or worker would get up interest he would soon have a church, for the people are well to do, but the preachers are lacking—not enough to go around—so there is not one to take the needy, but neglected places. I don't think your plan feasible, but there is a decided need of more churches in country places where it is too far to go to other churches even when desirous of fulfilling the law of God, to say nothing of externally obeying a law of men.

Our institutions are the most fundamental part of our national life. They have grown slowly and they will be changed slowly. Each community brings about its own changes. Even as the food must be assimilated to be of any value, so the wise ideas of one community cannot be thrust upon another, but must be grafted upon it as fast as it is ready to receive. There are thousands of fine Americans who have it in their hearts to bring about a richer life than we are enjoying today. A life whose richness will be internal rather than external, which will flow from within outwardly, a life which will not be a satisfaction to a few in a community as is too often the case today, but one where all may, and will, without the application of external force, be in the possession of a full share of the real things of life.

Helping hands are reached forth to those who have had trouble with their bread and sun-dried fruit. Be sure you cut these out and file away. Talking of filing how do you keep your recipes? What plan do you find enables you to turn to a recipe—cooking, household, medical—when you are in a hurried need for it? Have you a scheme so that when an emergency arises you can quickly and comfortably meet the situation? Tell us about it, please:

I wonder if the sisters who had trouble with their bread found the cause of it? We had the same trouble here a few years ago, and the experts told us that it was caused by diseased wheat being used in the flour—some kind of smut, I think. Bread that was well raised and baked in a hot oven for an hour, and entirely cooled—that is, left over night before putting away, each loaf wrapped in a paper, and kept in a good box in a cool, dry place—should be perfectly good and not too dry, for a week. But with this flour the bread becomes stringy and sticky, looks white in places, and the smell is unbearable within twenty-four hours after baking, no matter what care is used. If the flour has been kept in wooden bins it seems impossible to disinfect them, so that it is never safe to use them again. One of the large flouring mills found that their flour had this disease and disinfected their bins so thoroughly that they were believed to be safe. The next flour was found to be infected, however, and they were obliged to tear out their bins and replace them with new lumber, at a cost of many thousands of dollars. When the disease appeared here one of the best brands of flour was affected the worst and it was necessary to drop that brand and withdraw it from market, as there was no sale for it afterward. The trouble is entirely in the flour, so there is no use in attempting to find a different way of using it, in hope that the bread may be good.—N. M. L.

To keep sun-dried fruit from getting wormy, when the fruit is well dried in the sun put a thin layer in a dripping pan in the stove oven and heat thoroughly, then pack in a stone jar while hot and press down very hard. Tie the jar over tight until the next batch is ready to go in. When the jar is full spread a cloth over the top, then turn a well-fitting earthen plate over the top. Tie first with cloth then with paper. Must be packed hot. It will keep well.—J. K. B.

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

LEARN THIS BY HEART.

A bunch of golden keys is mine,
To make each day with gladness shine.
"Good morning!" that's the golden key
That unlocks every day for me.
When evening comes, "good night!" I say,
And close the door of each glad day.
When at the table, "if you please"
I take from off my bunch of keys.
When friends give anything to me
I use the little "thank you" key.
"Excuse me," "beg your pardon," too,
When by mistake some harm I do.
Or if unkindly harm I've given,
With "forgive me" I shall be forgiven.
On a golden ring these keys I'll bind.
This is its motto: be ye kind.
I'll often use each golden key,
And then a child polite I'll be.
—Selected by Pansy, age 14.

ROLL OF HONOR.

Arkansas Girl	Little Beauty
Brooklet	Little Farmer
Brown-eyed Marguerite	Little Missy
Brownie King	Lucille
Carnation	Me
Chick-a-dee-dee	Moonflower
Clover Top	Morning Glory
Fairy Queen	Naughty Zell
Ferdie	Ozark Girl
Gem	Papa's Pet
Gladness	Retha
Golden Leaves	Sea Foam
Harrie	Silvery Wings
Hayseed	Sweetland Maid
Housekeeper	Thalia
Iowa Lad	Wanola
James	Willamette
Katheryn	Yerma
Laura	Young Reader

Winners of pansy badges are Eden, E. M. P. and Happy Thoughts.

No address, Queen Isabell, Rainbow, Lonely Girl. Written on both sides, De Pera, George Hinshaw, George Douma, Rainbow. These get no credit. Try again.

FOR CHAPPED HANDS.

Wildfire is advised by Arkansas Girl to wash her hands in vinegar before going out. She says rubbing dry meal on them is also good.

Young Reader gives a formula which he thinks will make the hands smooth: One ounce glycerine, five cents' worth citronella, five cents' worth gum tragacanth. Soak gum in one pint soft water over night; then beat in glycerine and citronella until thoroughly dissolved.

Interesting Puzzles.

1. In the following sentence find twenty or more plants growing in my vegetable garden, using each letter as many times as needed: G. D. Cob, then squawk primly.—Harrie, age 9.

2. Before each of the following combinations place a letter so as to make a word. These prefixed letters, in order given, spell name of one of the states: Old, nly, and, ral, ipe, ble, oor, val.—Me, N. D.

3. Change the following groups of letters around a little, and make names of capitals of foreign countries: Kooty, rotilpi, obotag, donnol, jakevirky, imal, jenicet, boramirapa, rubsless, noblis.—Brooklyn, Iowa.

Answers given next week. For the best set of answers received before the answers are published we will give a good game. Address Aunt Mary, Hawley, Minn.

Snow Bound.

"Announced by all the trumpets of the sky arrives the snow."

Such evenings as this is when we enjoy the "tumultuous privacy of storm," sitting around the hot fire, cracking nuts and popping corn, while the northwest wind howls and the sleet beats against the windowpanes.

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What long poem do you think I have been reading this evening? It is one that we enjoy more when there are

"No clouds above, no earth below,
A universe of sky and snow!

I sometimes find it hard to decide which is the prettiest, a summer scene or a winter scene. In every season the country is prettier than the city, because "man made the city, and God made the country."

I suppose you boys are having a fine time hunting and trapping, and you girls reading. I have been reading "Oliver Twist," by Dickens, and wonder if the children in all workhouses are treated so cruelly. When I come home from school and see our little snow-roofed house with the smoke curling out of the chimney I feel so thankful that it is my own home and in it are my father and mother waiting for me. I wish that every girl and boy had a snug home, and a kind father and mother to take care of them this cold weather.—Morning Glory, age 15.

Preparing For Our Life Work.

Today, I have been reading in the Young Folks' columns, and it seems as though I can hold my pen still no longer. So here I come to join your chattering circle. Oh, how my heart would leap with joy if I only knew that this grand and glorious old nation has a throng of bright, intelligent boys and girls today, which tomorrow will be able to take up the work of our forefathers, and carry it through with brilliancy to success.

But eheu! fugaces labuntur anni! So cousins, let us all take heed to the fast fading of this blooming youth of ours, and begin early to prepare ourselves, so that when we must stand up, another generation, we may stand glorified in our own work around us.

And isn't this a grand old world to live in anyway? With its green forests, its gorgeous flowers, and rich velvet cloak in summer or in winter with the snow-covered ground, and icicles hanging from everywhere, it seems one great palace of diamonds. Where is the person that can find time and space to worry and grumble with all of God's good things around them? He must be dull indeed who cannot appreciate all those wonderful gifts that God has given us.

How many of you like to compose verse? I do, and have composed several poems. Bedouin, I think your letters are extremely interesting, and would like to read your poem entitled, "My Mother's Grave."

I have read a great many books, but have no special favorites among them. All I want is just a "good book," and everything else is lost to my thoughts, until I have mastered its contents.—Katheryn, age 16.

Remarks and Short Calls.

The ground is covered with pure, white
snow;
The birdies have all gone south, you
know;
The children with furs out to play will
go
In the pure white snow.
—Hayseed, age 9.

Our handiwork contest closes tomorrow, and the results will be announced as soon as possible.

Handiwork will put you on the Roll of Honor just as readily as literary work.

Silver Star's class is seeking a motto. She sends one which is good for us all: "Climb, though the rocks be rugged."

Queen wishes to thank all who sent her sample invitations; they were all very pretty. Adelheid won the prize, which was a brooch.

Brown-eyed Marguerite wish s someone would send her directions for playing "Double Pinochle." Address Margaret Coleman, Rt. 7, Oklahoma City, Okla.

Those who have their names on the Roll of Honor three times may have a pansy badge free, by asking for it, giving dates your name was printed.

Moonflower tells of a New Year's Day picnic in the meadow, where a butterfly came and helped himself to the eatables. No, it wasn't a dream; she lives in Arkansas, that's all!

Ozark Girl writes: To remove green walnut stains from clothing, pour coal oil through the stain, rub hard between the hands, then wash in the usual way, and the stain will disappear.

Any "pansy badger" may have a silver honor badge when his name has been on the Roll of Honor three times after the award of the pansy badge was published. Write and ask for it, giving dates.

"How often shall we write?" some ask. The best way is to wait after writing until you see your name on the honor roll. If it doesn't appear there, or under it, in three weeks, try again, anyway.

"And what shall we work for now?" ask the "silver badgers." When you have had your name on the Roll of Honor ten times after the notice of your silver badge has been printed, you may have a gold badge free by writing for it. But be sure to give dates.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER Lesson V. Genesis VI., 9-22; VII., 11-24. February 2, 1913

THE FLOOD—THE STORY.

In the incomparable picture gallery of the Scriptures there is no canvas like that which presents the ark and the flood. It is too bold and tragic to be passed. It arrests and stirs the most indolent mind. Once caught upon the sensitive plate of a child's memory, it will never fade. Its unspeakable horror is mercifully mitigated by such gentle incidents as the door shut by God's own hand, the dove with olive branch, and the rainbow spanning all. The Noachian deluge only precipitated the inevitable. It was an act of Divine mercy as well as justice. In the great conflict foretold in Eden between the serpent seed and the seed of God, the former were ascendant. The conditions were aggravated by intermarriage. The sons of God, the descendants of Seth, were lured by the siren daughters of Cain, so that they chose their wives irrespective of the Divine will. All the proverbial sin and sorrow of misalliance followed. The very physical hardihood of the offspring made their moral obliquity more deadly. Every conceivable lust was rampant. The seed of God was reduced to a paltry contingent. It was on the verge of extinction. The whole race, in fact, was committing suicide. It was destroying itself. Earth would have soon been like a desolate island whose sanguinary population had consumed itself through lust, murder, and cannibalism. The flood was a great mercy. It shortened the irretrievable misery of the race then living. It kept the seed of God alive. It was an object lesson the world has never forgotten. God's election to salvation is based upon the normal qualities of those whom he chooses. There is striking illustration of this in the character of Noah. He found grace in the eyes of the Lord, not through caprice and favoritism, but because in a wicked and adulterous generation he shone like a light, and lovingly held forth to a dying race the word which, if received, would have proved life to them. He was a just man and upright, and walked with God. He was fit to be the second Adam, the progenitor of a new and hopeful race. And to this end God spared him.

The Teacher's Lantern.

Rivet attention this paragraph certainly will; it is so scenic. It fairly teaches itself. The natural method is followed. It describes the condition of the race before the flood; the superlative wickedness which made that wholesale destruction an act of mercy as well as of justice; how the irretrievable misery of the human family, which had doomed itself, was cut short, and a chance given to begin anew under happier auspices. Noah's upright character shines against the universal degeneracy of his times. It proves one can be good in spite of one's environment. A boy can keep his lips unsullied, though the air around him is blue with profanity. He need not lie, nor cheat, nor gamble, though those with whom he is thrown in school, shop, or store all do. If he keep upright, he will prove God's instrument of good to his fellows. Implicit and persistent was Noah's obedience. He showed his faith by his works. He never grew weary in well-doing under circumstances calculated to try him to the uttermost. So his name richly deserves to be engraven on that tall obelisk, Hebrews XI, reared to the heroes of faith. His very character and course was in itself an indictment and condemnation of the world before the flood. Heir to two worlds, Noah stepped out of the ark sole monarch and proprietor of all he surveyed with the natural eye, and beyond that the better inheritance, even the heavenly. So God rewards—a hundred-fold in this life, and in the world to come everlasting. A bone of contention has ever been the question whether the flood was universal or not. The arguments pro: (1) Natural conclusion from language of Scripture. (2) No evidence to prove that the population of the earth was confined to a limited locality. (3) Impossibility of piling the waters up in such manner as to cover the mountains. (4) No need of taking birds into the ark if deluge was only local. Arguments contra: (1) Universal Deluge unnecessary to accomplish the end desired. (2) Ark could not have given room for every species. (3) To cover highest mountains, water must needs be five miles deep. Ten miles added to the diameter of earth would destroy the equipoise of the system. (4) Universal prevalence would have produced change of climate. (5) Overflowing of salt water would destroy plant life, and fresh water animal life. Still pending is the case, with the drift of the best modern comment, however, decidedly in favor of a local deluge.

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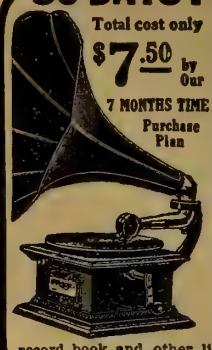

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THE BEST YOU EVER SAW 25 of the most beautiful post cards ever sold, 10 cents. All different, consisting of dainty Cupids, Hearts, Doves, Lovers, Text and Floral designs. Far better than our Christmas cards, and they were beauties. Some are embossed and in gold, lithographed in many colors on a fine grade of cardboard. 25 NO TWO ALIKE

V. HERMAN & CO. 2430 North Halsted St., Dept. 76, CHICAGO

HIDES TANNED

By the World's Best Tanner and made into fur coat or robe for yourself, wife, son or daughter. Select a distinct style from our Free Style Sheet, 18x24, of 20 designs. New idea in tanning. We are the only tanners offering style in furs. Write now.

GLOBE TANNING & MFG. CO.,
220 E. 1st St., Des Moines, Iowa

Sunshine Lamp 300 Candle Power FREE

To Try In Your Own Home

Turns night into day. Gives better light than gas, electricity or 18 ordinary lamps at one-tenth the cost. For Homes, Stores, Halls, Churches. A child can carry it. Makes its own light from common gasoline Absolutely SAFE

COSTS 1 CENT A NIGHT

We want one person in each locality to whom we can refer new customers. Take advantage of our SPECIAL FREE TRIAL OFFER. AGENTS WANTED.

SUNSHINE SAFETY LAMP CO.
382 Factory Bldg., Kansas City, Mo.

TRAPPERS

We Pay Highest Cash Prices

We are the oldest established Fur House in Kansas City—have been paying highest cash prices and always giving our customers a square deal on every shipment since 1870. Ship us all your

FURS

We need all you can send, right now. We pay the prices we quote; give liberal assortment, do not undergrade, and remit cash in full same day shipment is received. We charge no commission. Send today for our free price bulletin quoting highest cash prices which we actually pay, free tags and full particulars.

M. Lyon & Co., 228 Delaware St.,
KANSAS CITY, MO.

SHIP US YOUR HIDES, FURS, Etc.

Established Since 1867.

D. Bergman & Co.,
Saint Paul, Minnesota

Deal Direct with the Largest and Oldest House in the West. Highest Prices and Immediate Cash Returns. Write for FREE price list, tags and full information.

SLED THAT STEERS, FREE
YOU CAN HAVE ONE.

Send No Money

This is the greatest sled for boys and girls ever manufactured. Known all over the country as the "sled that steers." Runners are spring steel, and when you coast down hill a slight pressure of the foot curves them and steers the sled to one side. No digging in the snow with your heels or plowing the snow with your foot. Not one boy in a hundred has one of these sleds. You can have one for a little easy work. Write me today and I will tell you all about it.

A. M. PIPER. 840 POPULAR BUILDING, DES MOINES, IOWA.

VETERINARY MATTERS.

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

WARTS AND RINGWORM.

Have a bunch of calves fed on corn and shredded fodder. They have warts or sores coming around their eyes and nose. Calves are fed in lot where they are fed each winter and every winter they become this way, but the sores disappear when they are put on grass. What is the cause?

If masses of small warts are present simply rub the affected parts once or twice daily with best castor oil and they will soon disappear. We think, however, that ringworm is present and it is due to vegetable parasites. Scrub and scrape each part perfectly clean. Then rub in a little iodine ointment each other day until cured.

WOBBLY COLT.

I have a bay colt coming two years old that seems to be stiff and weak and so clumsy it is hard for him to back up. I do not think he got hurt, as he seemed to get that way gradually last fall. He eats well and has made good growth the last year. If he turns around quickly he sometimes falls down. Has had plenty of exercise, running in the pasture all summer and in the stalks this winter.

Mysterious stiffness and wobbling gait such as you describe often indicates that incurable disease known as osteo porosis (big head). Keep the colt out of cornstalk fields. Feed liberally on a ration of equal parts of whole oats and wheat bran. Allow plenty of good mixed hay. Avoid all moldy feed. If worms are seen in the droppings, treat according to directions often given here.

ADDITIONAL FIELD NOTES.

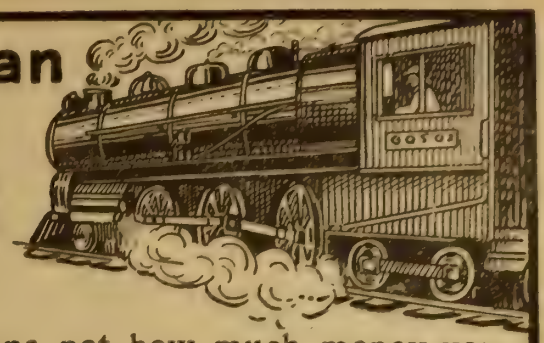
La Doux Sells Big Chester White Sows.

F. W. La Doux, Spirit Lake, Iowa, who sells Chester White bred sows at the fair grounds in Spirit Lake, Iowa, on Thursday, February 13th, is comparatively young in the business of breeding Chester Whites, but it is doubtful if many have made more rapid strides than he. This statement is a result of measuring his herd by the standard in many long-established ones and he has not only averaged up well, but he has succeeded in securing one feature that farmers are seeking in many places and find in fewer than they should. His boar, Gold Coin, not an extraordinary prize-winning sort, or at least with no such record, has made a record of another sort which certainly recommends him to consideration. It is doubtful if many boars breed more bone and better feet on their get than we saw in the bunch of pigs sired by this boar and now in Mr. La Doux's yards. The pigs are well made, too, have nice proportions and have grown out big. These features mean much to the practical hog man and we recommend sows bred to him as good property for buyers to look for. Gold Coin is the sire of most of the gilts in the sale and a good many of the sows are bred to him. Old Joe Cannon, the premier herd boar at this place for the last couple of years, is a big boar also and certainly has been a valuable breeder. He is now owned by another prominent Chester White breeder and is doing good service in his new quarters. He is by the well-known Onward, with bred Mr. Nagle, Deep River, Iowa, made a record, and is out of a good sow by Dunbar's Choice. Mr. La Doux bought a spring boar last fall by a good sire, out of a great sow by the champion boar, Sam B., which won a purple ribbon at Huron, S. D., last fall during the state fair show there. This herd has produced profitably and the sows are the prolific sort. This is a character that has been a prominent feature in the selection of breeding stock in the herd. The sow, H. C. Keep On, for example, has had in four litters produced on this farm thirty-nine pigs, and has successfully raised thirty-six of them, an average of nine per litter. No one need be afraid of losing money on sows that breed this way. There will be more about this offering in next week's paper. Watch for it. Write now for catalog, addressing F. W. La Doux, Spirit Lake, Iowa, and mention The Homestead. Send your bids to G. M. Thompson, Homestead representative, a practical Chester White breeder. See advertisement on page 45.

Waltemeyer Bros.' Great Duroc Sale.

One of the important events to take place in Duroc Jersey circles is the sale to be held by Waltemeyer Bros., Melbourne, Iowa, on February 11th. Such an array of Duroc Jersey bred sows have seldom been offered at public auction in Duroc history. It is doubtful if any boar of the breed has sired as many state fair champions and prize winners in the same length of time as has their great boar, Golden Model 2d. Golden Model 2d was second in the aged class at the Iowa State Fair in 1909 and first at Nebraska the same year. Since that time he has sired the majority of the animals that have won for Waltemeyer Bros. 275 ribbons, the most of them champions, first and second-prize winners. High Model, a son of Golden Model 2d, was the grand champion at the Iowa State Fair in 1912. His dam is an Ohio Chief sow and there is no reason why he should not breed well. There will be eight sows bred to this grand young boar in the sale. Golden Model 31st is another son of Golden Model 2d that won grand championship at the Sioux City fair in 1912 and about eight sows in the sale are bred to him. If breeders could see the pigs sired by this young boar that Waltemeyer Bros. will show another year, they would have plenty of confidence in his ability to sire winners. Sensation Wonder was the third-prize under-year boar at the Iowa State Fair in 1912 and was purchased to use on Golden Model 2d gilts. His sire is I Am Protection Wonder by Crimson Wonder Again, while his dam is the noted brood sow, H. A.'s Queen. Sensation Wonder is one of the best prospects in the country for a senior yearling this coming year and at sight he impresses the careful observer as an impressive looking sire. A good sow bred to this grand young boar will be a money-making proposition in any herd. As to the sows in the sale, it would consume several pages of space to give the winnings of the animals to be sold, as well as the winnings of their ancestors. One of the most attractive propositions in the sale is the junior yearling sow sired by Golden Model 2d and out of an Ohio Chief dam shown in the junior yearling class in 1912, winning second at Des Moines and Huron, first at Hamline and first and grand championship at Sioux City. This is a wonderfully well-built sow, being very smooth and having an excellent set of feet and legs. She is bred to Chief Select, Wm. Reed's noted herd boar, for an early March litter. A more desirable sow will not be sold in the winter sales. The first-prize gilt at the Iowa State Fair in 1912 was a daughter of Golden Model 2d and she sells in the sale bred for a March litter to Chief Select. This gilt is an extraordinarily good one and will suit any breeder looking for the best to be had. The second and third-prize gilts at the Iowa State Fair will sell and they are bred to Golden Model 2d. The fourth-prize gilt is a daughter of Model Chief's Last, out of a Golden Model 2d sow, and bred to Golden Model 31st, the Sioux City champion. The senior yearling sow, that won fourth at Des Moines, championship at Hamline and Huron and first at Sioux City, is a daughter of Protection Col. and out of a Golden Model 2d dam. She sells bred to the Iowa grand champion, High Model. The other junior yearling sow this firm exhibited was a daughter of W. B.'s Model Chief and was good enough to win fourth at Huron and third at Sioux City. She is bred to High Model. The three under-year sows in their prize-winning herd this year are all cataloged. One that won second at Des Moines and Huron and third at Hamline is a daughter of Golden Model 2d and bred to Sensation Wonder. The one that was first at Huron and Sioux City and second at Hamline is a daughter of Model Chief's Last and bred to Golden Model 31st. The other is a Golden Model sow that won third at Des Moines and fourth at Sioux City and is bred to Sensation Wonder. There will be five Chief Select gilts in the sale, one by Advancer, three by Dusty Critic, one by Proud Col., all of which are bred to Golden Model 2d. Model Girl 5th is the dam of High Chief, the first-prize junior yearling boar at the Ohio State Fair in 1912, and she sells bred to the Iowa champion, High Model, for an early litter. There will be about twenty sows bred to the great sire, Golden Model 2d, and about fifteen extra good fall yearling sows and spring gilts sired by Golden Model 2d and bred to Sensation Wonder. There will be two extra good Model Chief 2d gilts that are litter sisters to the boar pig that won fourth at Des Moines, first at Hamline and Huron, and these gilts are bred to Golden Model 2d. The record of the produce of Golden Model 2d at the leading western state fairs during the past four years stands almost unequaled and to the student of the breeding of the winners at the state fairs, it is a well-known fact that most of them are descendants of prize winners. The man who buys a sow bred to Golden Model 2d is reasonably sure to raise a litter of pigs that with proper care will have an excellent chance to win some of the important prizes at the big fairs. This entire offering are descendants of boars and sows that have been winners at the leading state fairs and they are reasonably sure to reproduce their own kind. We cannot too strongly recommend this offering and urge every Duroc breeder who can possibly use a good sow to be present at the sale. Carlos C. Palmer will represent The Homestead at this sale. See page 47 and write for catalog, mentioning The Homestead.

Young Man Whats Your Job Worth?



That means, not how much money you earn now, but--

---is the work congenial?
---are you being developed?
---are you growing?

Will you be a Power or a Plodder at 40?

Well-trained railroad agents receive high salaries and achieve high positions—some become superintendents, general managers, presidents.

The Chicago Great Western Railroad Company

Has opened a railroad business college (*not* a correspondence school) at Dubuque and offers exceptional opportunities to a limited number of bright young men to enter its service as agents, operators or assistants. The cost of tuition is reasonable, and will be refunded after a year's service.

If you are interested in your own development—if you want to *grow*—write for booklet to

G. O. Perkins, Supt. Telegraph
Chicago Great Western Railroad
303 West Harrison St., Chicago.

1913 Almanac Free

Right Now

is the time to give your horses, cattle, sheep and hogs

Pratts Animal Regulator It promotes digestion, and so saves feed; keeps the liver and bowels active; insures health, and increases profits

25c, 50c, $1; 25-lb Pail, $3.50

Sprains, bruises, stiff muscles, are quickly cured by applying **Pratts Liniment** The best family liniment. Good for man and beast

25c, 50c, $1

"Your money back if it fails." Pratts Profit-sharing Booklet FREE at dealers, or write us

PRATT FOOD COMPANY, Philadelphia, Chicago

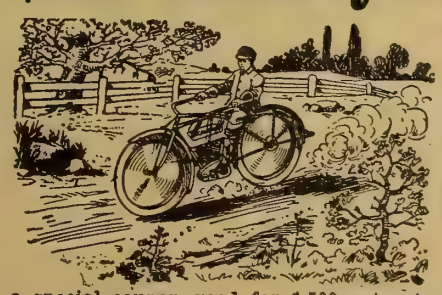
FRAZIER'S DISTEMPER CURE

COUGHS and DISTEMPER

Among Colts, Mares and Stallions cured with one bottle of FRAZIER'S DISTEMPER CURE, or your money refunded. One dose placed in trough or feed will prevent all cases. Influenza, Pinkeye, Catarrhal Fever, Colds and all forms of Nose and Throat troubles cured in 4 to 8 days. $1.00 bottle holds three 50-ct. size bottles. Send postal for free booklet on the horse. Sold by druggists or prepaid from

BINKLEY MEDICAL COMPANY, Dept. D., Nappanee, Ind.

$250 Motorcycle Given Away



YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., - 515 Popular Building - Des Moines, Iowa

CLEAR-EYE
FOR HORSES' EYES.

Best remedy ever discovered for Moonblindness, Pink-Eye, Cataracts and all ailments of eyes of animals. $2.00 a bottle. Guaranteed. Write for our free horse book, "Forty Facts for Horse Owners."
THE LAKESIDE REMEDY CO.,
5428 Calumet Ave. - Chicago, Ill.

Dobry's Hog Remedies

POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd. Address
John Dobry Mfg. Co., Cedar Rapids, Iowa.

Hog Book Free.

Great value to hog men. On care and diseases of hogs. Tells how to destroy worms, cure and prevent disease. Sent free. Write
DR. D. C. SNODDY CO., Dept. 0, Nashville, Tenn

Want to Buy Some Hay

LA SALLE FLOUR & FEED CO.,
LA SALLE, ILLINOIS.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Feb. 27, J. V. Arney, Leon, Iowa.
Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Feb. 12, White & Smith, Chicago, Ill.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 14, Chas. Slepicka, Tobias Neb.
Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 21, F. A. Schaeffer, Raleigh, Iowa (sale at Estherville, Iowa).
Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 1, D. R. Hanna, Chicago, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Feb. 14-15, Combination sale, Grand Island, R. D. Mousel Mgr., Cambridge, Neb.
Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 20, A. A. Hager, Avoca, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Percheron Horses.

Feb. 20, Nuckolls County Horse Breeders' Assn., Percy Baird, Ruskin, Neb., Sec., sale at Lincoln, Neb.
Jan. 22-23, Breeders, sale, C. F. Way and H. K. Frantz, Mgrs., Lincoln, Neb.
Mar. 12, L. H. Luckhardt, Tarkio, Mo.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Jacks and Jennets.

Feb. 27, W. T. Trotter, Mt. Ayr, Iowa.
Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Poland China Swine.

Feb. 10, A. D. Jones, Dunlap, Iowa.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 11, Henry Dorr, Remsen, Iowa.
Feb. 11, Gilbert Johnson, Osceola, Neb.
Feb. 12, Jas. Williams and Will A. Henry, Marcus, Iowa.
Feb. 12, D. C. Lonergan, Florence, Neb.
Feb. 13, L. B. Williams & Sons, Villisca, Iowa.
Feb. 13, W. A. Lingford, Dannebrog, Neb., sale at Grand Island, Neb.
Feb. 13, E. S. Barker, Doon, Iowa.
Feb. 13, Theo. Martin, Bellevue, Iowa.
Feb. 13, H. P. Kuhl, Florence, Neb.
Feb. 14, J. M. Peery, Alvord, Iowa.
Feb. 14, Frank Owens, Council Bluffs, Iowa.
Feb. 15, A. T. Jepson, Moorehead, Iowa.
Feb. 15, C. W. Humerick, Atlantic, Ia.
Feb. 15, Walker & Son, Fairbury, Neb.
Feb. 18, Jas. Cockerton, Whiting, Ia.
Feb. 18, G. J. Bloemendaal, Alton, Ia.
Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 19, Peter Mouw, Orange City, Ia.
Feb. 19, C. C. Polly, Whiting, Iowa.
Feb. 20, Ruebel Bros., Marathon, Iowa.
Feb. 21, W. J. Crow, Webb, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 21, R. W. Halford, Manning, Ia.
Feb. 22, W. E. Zimmerman, Neola, Ia.
Feb. 22, C. C. Ingram, Bloomington, Neb.
Feb. 24, J. M. Sheehan, Stuart, Iowa.
Feb. 25, W. M. Shrader & Co., Stuart, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa.
Feb. 26, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 26, Wm. Lentz, Ankeny, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa (night sale).
Feb. 28, C. M. Pederson, Dunlap, Iowa.
Mar. 8, J. H. Healy, Manilla, Iowa.
Mar. 12, M. F. O'Hern, Barnum, Iowa.

Duroc Jersey Swine.

Feb. 10, R. Widle & Sons, Genoa, Neb.
Feb. 10, R. M. Skillen, Greene, Iowa.
Feb. 11, Waltemeyer Bros., Melbourne, Iowa.
Feb. 11, Fred Nelson, Lindsey, Neb.
Feb. 11, H. H. Shaw, Hebron, Neb.
Feb. 12, J. D. Isaac, Red Oak, Iowa.
Feb. 12, Tweedt Bros., Corsica, S. D.
Feb. 12, Economy Stock Farm, Shenandoah, Iowa.
Feb. 12, J. C. Theobold, Ohiowa, Neb.
Feb. 12, A. W. Lamb, Albion, Neb.
Feb. 13, C. H. Huffman, Scranton, Iowa.
Feb. 13, H. H. Koenig, DeWitt, Neb.
Feb. 13, A. R. Barnes, Petersburg, Neb.
Feb. 13, R. L. Comer, Carlinville, Ill., and W. H. & A. D. Van Meter, Cantrall, Ill., sale at Pawnee, Ill.
Feb. 14, W. W. Scholes, Onawa, Iowa.
Feb. 14, Wm. Harding & Son, Brimfield, Ill.
Feb. 17, Bob Ewing, New Hampshire, O.
Feb. 18, Chas. F. Sprague, Lima, Ohio.
Feb. 18, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 19, D. Herr & Miller, Elida, Ohio.
Feb. 19, G. Van Patten & Son, Sutton, Neb.
Feb. 20, J. W. Storm, Seville, Ohio.
Feb. 21, Geo. Davis & Son, Milford, Neb.
Feb. 24, Madison Spencer, Audubon, Ia.
Feb. 24, Jess W. Andrews, West Point, Ind., sale at La Fayette, Ind.

DATES FOR LIVE STOCK SALES.

Holstein-Friesian Cattle.

Feb. 19-20, Frank White, Hampton, Ia.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron and Belgian Horses.

Jan. 14, Thos. and James Woulf, Streator, Ill.

Chester White Swine.

Feb. 13, F. W. La Doux, Spirit Lake, Ia.
Feb. 19, G. H. Tutt, Marathon, Iowa.
Feb. 20, J. H. Stewart, Dickens, Iowa.
Feb. 27, John F. Holst, Jr., Denison, Ia.

Hampshire Swine.

Feb. 5, C. A. Brook, Washington, Ia.
Feb. 18, W. F. Davis, So. St. Joe, Mo.
Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD NOTES.

A recent note from Tweedt Bros., Corsica, S. D., advises us that they will hold a public sale of Duroc Jersey hogs on February 12th.

M. W. Vaughn, Marion, Iowa, has six yearling Chester White brood sows and thirty spring gilts bred for late March and April farow that he is offering for sale in his advertisement on page 50 of this issue.

Jesse Binford & Sons, Liscomb, Iowa, inform us that they have a few good Short-horn bulls for sale and would be pleased to have any Homestead readers in need of a bull visit them and see their stock. They are making very reasonable prices. See page 51.

P. J. Eggers, Denison, Iowa, makes a change in his advertisement which will be found on page 38. Mr. Eggers has for sale a number of high-class Percheron and Belgian stallions of desirable ages that are right every way. Write him for prices, or go and see his stock.

Robert Pritchard, Carroll, Neb., has some very high-class bred Duroc Jersey sows to sell at private sale this season and will be glad to quote prices on them to anyone who may be looking for stock of a high degree of merit. His advertisement appears on page 50 of this issue.

E. B. Hamilton & Sons, Garden Grove, Iowa, are offering home-bred registered Percheron stallions and mares and also standard-bred horses of both sexes for sale in the advertisement that appears on page 38 of this issue. They write that this stock is extra good and that they expect to price it well worth the money.

W. A. Bissonnett, Charles City, Iowa, is advertising a few big-type Poland China gilts on page 43. The spring gilts are weighing from 225 to 300 pounds and a fall gilt weighing near 400 pounds. They also have some last September and October pigs for sale. The price is very reasonable on this quality of stock.

L. L. Henningsen's Sons, Dike, Iowa, are offering ten Double Standard Polled Durham bulls ranging in age from ten to eighteen months. They are all red and good individuals. This herd has been established eighteen years and is producing the kind that please buyers. The prices asked for these bulls is reasonable. See page 38.

Frank L. Stream, Creston, Iowa, writes that he will have a new importation of Belgian and Percheron horses to arrive at his barns, February 7, 1913. Mr. Stream invites all his old customers and new ones, as well, to come and see this load of horses, as they will be the largest and heaviest he has ever imported. See advertisement on page 54.

"The colts I have for sale are a black, coming three years old, and a chestnut sorrel, coming two years old," writes F. Bowman, Eldora, Iowa. "They are both good individuals and nicely made and sound, and for Morgans will make horses with plenty of size. They will be priced very reasonable and those interested had better come and look them over." See advertisement on page 38.

In an advertisement on page 44 Anna E. Sharpe, administratrix, announces the closing-out sale of the Menzie Poland China herd. The herd is a good one, including three herd boars, a number of matured sows and thirty high-class gilts such as any breeder ought to be glad to own. The sale takes place February 4th at Hampton, Iowa. As it will be held in town, buyers may attend the sale without any loss of time. For particulars write to Anna E. Sharpe, administratrix, Hampton, Ia.

Harry Hurless, Ogden, Iowa, is offering some of his Chester White bred sows and gilts at private sale to those who want a practical type of producing females of this particular breed. He has been making some good sales alraedy, having sold seventeen bred gilts during the past two weeks. These sows are bred to good sires that are well bred and the prices are set at figures which make them good bargains. See page 50.

No doubt a large number of farmers are just now giving quite serious consideration to the question of building a new house in the spring. To those men the advertisement of the Gordon-Van Tine Co. on page 56 will be of interest as well as the road to savings in house construction. The company have on $1,000,000 worth of lumber and building materials and they make the statement that they will be able to save owners from $500 to $1,500 cash on a new house. They furnish everything: lumber, doors, windows, millwork, paint, hardware and roofing. Every prospective builder will serve his own interest well by procuring copies of the catalogs mentioned in the advertisement. Just fill out name and address in the coupon, put a check mark opposite the name of the catalog wanted and forward to Gordon-Van Tine Co., 4081 Case St., Davenport, Ia.

Bradley Bros., the well-known growers of strawberry plants at Makanda, Ill., will send free to any of our readers six plants of their famous Bradley variety. See their advertisement on page 16.

A feature of the Hapgood Plow Co. advertised on page 8 is the business of selling plows direct to farmers. The various other machines manufactured by this firm are described in a catalog, for which address Hapgood Plow Co., Box 810, Alton, Ill.

Lower prices and better quality are the principal points in favor of the Davenport gasoline engine which appears on page 10. In addition to the principal facts noted in the advertisement, there are arguments of intense interest to buyers given in engine catalog, which postal card addressed will secure. Write for it to the Davenport Engine Works, Dept. 4471, Davenport, Iowa.

Certainty seeds are sent out by the Iowa Seed Co. This company has been in continuous business for forty-eight years and the distribution of seeds made through it in that time has been immense in quantity as well as right in quality. At present there are fourteen departments engaged in seed growing, which utilize 8,500 acres of land. Farm, garden and flower seeds of every sort are described in the new, finely illustrated catalog, for which write to the Iowa Seed Co., Dept. D I, Des Moines, Iowa. See page 14.

The new Mankato incubator, announcements of which have appeared in recent issues of this paper, is a hatcher which, while it possesses all the merits of high-class machines, is sold at a minimum figure. The fifty-egg Mankato is quoted at $14.95, which is a remarkable price when the claims of the manufacturers are taken into consideration. Catalog giving complete description may be obtained by writing to the Mankato Incubator Co., Box No. 827, Mankato, Minn. See page 24 for advertisement.

J. H. Morf, Fayette, Iowa, informs us that he has a few good bred Duroc Jersey gilts left that will weigh 300 pounds each and are not loaded with fat. They have been fed a protein ration and have had plenty of exercise and getting the same care that Mr. Morf's brood sows are. Mr. Morf's customers write him as follows: "Received gilts O. K. and am well pleased. Think they are a fine pair. Am more than pleased with the gilt." Mr. Morf is giving excellent values in these gilts at the prices asked. There has been no cholera in his section of the state. See page 50 for advertisement.

It does not seem that it would be necessary to direct the attention of our readers to the advertisement of the Hercules stump puller which appears on page 28. Earlier issues of this paper have given most convincing testimonials, showing the value of the stump puller and its effectiveness. There are also many arguments that may be presented showing how the reclamation of land more than pays the cost of the Hercules in one year. All these facts, however, are fully set out in the stump puller book which may be obtained free by simply filling out the coupon in the advertisement and forwarding it to the Hercules Mfg. Co., 741 21st St., Centerville, Iowa.

W. J. Crow, Webb, Iowa, will hold a sale of Poland China brood sows in February that should be borne in mind by those who will be wanting some good sows of the breeding that has produced so many good herd headers now in service in some of the best herds in the middle West. His sale will be held on Friday, February 21st, at the farm near Webb, and he has this year an unusually thrifty lot of sows to put up. He has had to let the old herd boar, Big Surprise, go this year and will be able to offer only a few sows bred to him, but the other boar, Crow's S. Kind, is still doing good work in the herd and is a sire of well-proven worth. Remember the date and get sows bred to farrow early and at a season that will show that they are carrying pigs. It might be a good thing to get your name on the list for a catalog now, so you will be sure to receive one when they are ready to mail.

Hanks & Bishop, New London, Iowa, have an illustration in this issue of The Homestead of a part of their winning show herd of 1911. This firm has at the head of their noted herd of Duroc Jersey swine the great breeding boar, Model Wonder. The produce of Model Wonder has been the winners in their herd. In 1911 at the Iowa and Nebraska State Fair the produce of Model Wonder won twenty ribbons including seven firsts, three seconds and one champion, and the most important of the first was on produce of boar. In 1912 they came back to the same shows and won as many if not more ribbons as the previous year and won second on the get of Model Wonder. On February 6th these gentlemen, together with J. C. Droz, Fairfield, Iowa, will sell fifty head of bred sows, the tops from two of the good herds in the state. Mr. Droz will have a lot of top sows mated to his herd boar, Cherry King, a boar that has proven a sire of renown. There will be a few sows bred to Wonder's Model, a second-prize junior yearling at the Iowa State Fair, 1912, a hog bred and shown by Hanks & Bishop, and he has promise of being one of the great boars of the breed. There will be a number bred to Proud Col., third at Iowa in 1911 in the junior yearling class. They have mated to the noted sire, Model Wonder, the best bunch of gilts they have ever offered the public mated to this great sire. This sale will be held at Fairfield, Iowa, February 6th, at Gilbert's sale barn. See page 50 and write either consignor for catalog, mentioning The Homestead.

Osborn's Sow Sale, February 1st.

On Saturday, February 1st, O. E. Osborn, Weston, Iowa, sells a great string of Duroc Jersey bred sows, and his offering will be one of the best offerings sold during this week. Make it a point to be at the Osborn sale on February 1st.

Bargains in Belgians.

On page 54 Ed Boll, Jr., Scribner, Neb., is offering some splendid bargains in imported and home-bred stallions and mares ranging from yearlings up to matured horses. He is offering some prize-winning young stallions that are about as good as you will find anywhere and he is making prices on these where they will sell. He also offers some splendid mares for sale. If you want Belgians it will pay you to go and see his horses. When writing him kindly mention The Homestead.

Dr. Herr & Miller's Coming Sale.

Dr. Herr, who is well known in the Duroc business to Homestead readers has taken on a partner in the Duroc business. The doctor's immense practice as a physician keeps him so busy he felt his need for help in the business. In selecting S. J. Miller, Lima, Ohio, we feel sure he has a partner that will strengthen this firm. They will hold a bred sow sale February 19th. This is on Wednesday of the Northern Ohio Sale Circuit. They will offer several extra choice sows of the very richest of breeding bred to their noted sire of prize winners, Helen's Chief 63821. Watch the next issue of The Homestead for advertisement.

Shaw's Duroc Sale.

One of the important sales of Duroc Jerseys to be made this season is the sale that will be made by H. H. Shaw, Hebron, Neb., on February 11th. On this date Mr. Shaw is selling some of the best sows that will sell this season. He is putting in some sows that will be good enough for anyone, and they certainly are deserving of the attention of the breeders and others who appreciate the good hogs. Mr. Shaw is a breeder who has come before the people a great deal the past few years and we must say that we feel that his efforts in behalf of the Durocs have been far reaching. We feel that those who have the best interest of the breed at heart and that appreciate the service that Mr. Shaw has been to the breed sould turn out and help make this progressive stockman a good, fair sale. The offering warrants it and we believe it is coming to Mr. Shaw. The offering is all of good blood lines and as individuals they are a little better than the good offering put up by this gentleman a year ago. We would ask that you send for a catalog at once and when writing kindly mention this paper. See advertisement on page 41.

The Comer-Van Meter Bred Duroc Sow Sale.

On Thursday, February 13, 1913, R. L. Comer, Carlinville, Ill., and A. H. & W. H. Van Meter, Williamsville, Ill., will hold a combination Duroc bred sow sale at Pawnee, Ill., as per advertisement on page 53 of this issue. The sows are mostly bred to Col. I Am, first in class, senior champion and grand champion at Illinois State Fair, 1913, by B. & C.'s Col., dam by Crimson Wonder Again, and Dominator Col., first-prize junior yearling, Illinois State Fair, 1912, while others are bred to College Professer by The Professor; Illustrato., first-prize boar pig at Illinois State Fair, 1912. It is seldom the buying public gets an opportunity to buy sows bred to so many Illinois champions in one year or one sale. These boars represent the highest type of perfection in the Duroc world, as the Illinois State Fair is the grand reckoning place of the year's shows. The sows in the sale are a richly bred lot of matrons, too, and each and every one is a good, first-class individual. They are sired by Crimson Wonder III., B. & C.'s Col., McNeil's Model, Professor and other noted sires. Make every arrangement to attend this sale. If you cannot come send bids to H. E. Browning, representing The Homestead, or Colonels Reppert and Igleheart and assistants, auctioneers. Look up advertisement on page 53 of this issue and write for catalog.

Isaac's Big-Type Durocs.

On February 12th, at Red Oak, Iowa, J. D. Isaac will sell fifty head of his large-type Duroc Jersey sows, and he has once more a splendid offering to show the breeders. Mr. Isaac is one of the men who has held to the big-type Durocs and he has made a reputation along that line. For a number of years the Isaac big-type Durocs have been gaining favor with the public and this has given them encouragement to continue along their chosen line. In his forthcoming sale he will sell fifty. There are seven tried sows, eight fall yearlings and thirty spring gilts. The tried sows have been selected because of their individual merit and usefulness and are as good as he has in the herd. The fall yearlings are all sired by Crack A Jack, a big boar formerly used in the herd. The spring gilts are a grand good lot and they are sired by Jim's Mogul and Iowa King. This boar, Jim's Mogul, is a hog he selected from the Carey Cameron herd, and he was the largest pig seen in any of the fall sales last year. He has proven a most excellent breeder and the gilts sired by him are among the very best he has. All of the fall and the matured sows are bred to this boar and they will be good propositions to buy. The remainder of the gilts are bred to Valley King 3d, one of the largest and

toppiest boars in the Barker Bros. & Crowell sale last fall. Those of our readers who are wanting Duroc Jersey sows with plenty of size will be interested in the J. D. Isaac sale. Write him at once for catalog and mention The Homestead. See advertisement on page 44.

High-Grade Holstein Cows.

W. C. Kenyon, Elgin, Ill., advertises on page 23 that he has always on hand 150 to 200 head of good, high-grade Holstein cows and heifers, due to freshen at an early date, and he will sell them in lots to suit. Mr. Kenyon is easily accessible, his farm being situated two miles south of Elgin at Clintonville station, on the Aurora, Elgin and Chicago third-rail electric line, with the barns two minutes' walk from the car. Write him your wants.

Fesenmeyer's Last Call.

On February 6th Henry Fesenmeyer, Clarinda, Iowa, will sell a grand good offering of big-type Poland China brood sows bred to his celebrated herd boars, A Wonder and Big Joe, and those who want to get the choicest of big-type breeding cannot afford to overlook this sale. He is selling some excellent A Wonder sows in this sale and some great gilts by Big Joe bred to old A Wonder. In fact there are no better than he will offer in this sale. If you cannot get to this sale send a bid to our M. T. White, representing this paper, and it will be properly looked after on day of sale.

Hopley & Son's Stallions.

In a recent letter from Peter Hopley & Son, Lewis, Iowa, they say: "We have been having a very nice trade in Percherons and Shires and the outlook looks good to us. We sold ten mares last week, eight Shires and two Percherons, and we think the best yearling Shire stallion in America, The Champion Molasses Feed Co., Tarkio, Mo., bought the Shire mares and stallions for their farms at Tarkio, Mo., and the Percherons went to Dave Gelvin, Maitland, Mo. We also sold two stallions last week to old customers and we also sold a car load of stallions and mares to go to Utah. We have some splendid horses left, but you can just say to your readers that they will have to come soon if they want them." See advertisement on page 55.

Bob Ewing Buys Superba.

One day recently our old friend, Bob Ewing, New Hampshire, Ohio, decided to own Superba outright, so he journeyed to Lima, Ohio, and called on East Bros. and after much talk succeeded in getting a price on their half interest. So as Mr. Ewing already owned one-half he is owning the whole hog. While at the East farm he also bought ten of the choicest gilts on the East Farm and several of these are by Defender and most of them bred to Superba. This is a great big deal all the way around and places Bob Ewing right in fine shape for his big sale, Monday, February 17th. Watch for the advertisement in The Homestead next week.

The Season's Hereford Offering.

Warren T. McCray, Kentland, Ind., will offer seventy-six head of Hereford cattle at auction on February 26th that will comprise the strongest lot ever sent forward from this great breeding establishment and one of the best lots ever seen in any sale ring. Fifty-one females and twenty-five bulls are listed, comprising a collection of show and breeding cattle that, numbers considered, we doubt if any other breeder could duplicate. Eighteen sons and grandsons and twelve daughters of the champion, Perfection Fairfax, are cataloged, while many of the females are bred to this greatest of Hereford sires. Particulars for this notable offering will be given in late issues. File your application at once for the catalog with W. T. McCray, Kentland, Ind., and mention The Homestead when you write.

Kuhl's Closing-Out Sale.

One of the very attractive big-type Poland China sales that will be held this winter will be that of Herman P. Kuhl, Florence, Neb., on February 13th. It will be a closing-out sale and he will sell forty-five head, including his noted show and breeding boar, Big Tom, and his young boar, L's Quality. Big Tom, it will be remembered, was a first-prize boar at the Nebraska State Fair and he has proven himself a great breeding boar. His sons are heading many of our best herds today in the West and his daughters have also been sought after by our best breeders. We therefore say to those breeders who are going to want a tried herd boar, here will be one of the best propositions offered this year. The young boar, L.'s Quality, is the hog that Mr. Kuhl and Chas. Lonergan paid Tom Walker $250 for, and he is proving himself a good breeding boar. He is selling twelve fall sows and twenty spring gilts, all sired by Big Tom, and no one has any better. Most of the other sows will be bred to Big Tom and you can therefore realize that Mr. Kuhl is going to put up a splendid offering. Among his best sows is Tecumseh Belle 22d, a daughter of Miller's Happy Tecumseh, and she is one of the toppiest and best sows that will go through a Nebraska sale ring this winter. She is bred to Big Tom for an April litter. Other splendid sows that go in bred to Big Tom are Lady Hadley by Cavett's Big Hadley, Vest Pocket by Big Victor, two daughters of Cloverdale Hadley and a daughter of Fesenmeyer's old boar, Chieftain. Many of these herd sows and fall sows are outstanding good ones and his gilts are just as good as you will find anywhere. The sows that he will offer are bred to Big Tom, L.'s Quality and Big Omaha. Remember the Kuhl sale is a closing-out sale and there will be some great bargains offered. Write for his catalog and mention The Homestead. Bids sent to M. T. White, representing this paper, will be attended to on day of sale. See page 44.

Brook's Hampshire Sale.

C. A. Brook, Washington, Iowa, has one of the largest herds of registered Hampshire swine in the state and has decided to offer at public auction some of the best sows he has had on the farm. Mr. Brook has been an exhibitor at the leading state fairs and the International Stock Show for several years and was exceedingly fortunate in winning his share of the prizes at the recently International Stock Show. Joe 7743 was the first-prize junior yearling boar at that show and was a strong contender for championship honors. Many breeders at the ringside would have placed him above the boar that won championship. Nearly all the sows Mr. Brook is selling are bred to this great show boar. This boar is a son of Nissen's General Allen, the second-prize aged boar at Chicago this year. It will be seen that Joe is backed up by a line of prize winners which would justify the prediction that he will make a great sire. There will be a few gilts out of Silvia, the undefeated under-year sow of 1911, and those being bred to Joe should be attractive propositions to the best of breeders. Mr. Brook has a large herd and has only selected the very choicest animals for this offering in order to make it attractive to the best breeders. Practically all of his 1912 International prize-winning sows will sell in the sale. Few opportunities to secure these prize winners at your own price are offered the public during the course of a year. J. E. Wright has consigned a few extra good sows to this sale and they are bred to Silver Tip Lad, one of the best sons of the noted champion sow, Silvia. If interested in good Hampshires arrange to attend this sale and write for a catalog, mentioning The Homestead. Carlos C. Palmer will represent The Homestead at this sale. See page 48.

Penry's Col. Beabout Sale.

On Tuesday, February 11, 1913, W. P. Penry, Radnor, Ohio, will hold his annual bred sow sale at his sale pavilion at Radnor, as per his advertisement on page 39 of this issue. Twenty of these sows are bred to the noted boar, Col. Beabout, that he paid $730 for at Mr. Browning's record-breaking sale. Col. Beabout was second-prize senior yearling at the Illinois State Fair, 1911. He was sired by Defender, dam Proud Fancy. Other sows are bred to Defender, Superba, Cherry King, Highland King and others. They are sired by Superba, High Model, Defender, Hi King, H. & H.'s Crimson Wonder, Ed Orion, Orion Chief, Good E. Nuff Again, King's Col., Col. Gladness, Col. Jack, King of Col.'s Ideal, Premier Col. and others. The stuff is growthy and in the pink of condition and showing up well in pig. Ohio Duroc men should be present and work for Mr. Penry, for Mr. Penry works for you six days in the week, fifty-two weeks in the year, and has helped every Duroc man in the state and many in adjoining states. He has bought hogs of many of you and sold them for you in herds, droves and bunches. Why not on February 11th show this good man that you appreciate his work and at the same time buy a fine sow for yourself that will make you money? The breeding cannot be beaten and the offering is fine as silk. Everybody is invited and you will all sure be welcome. H. E. Browning will represent The Homestead and bids by mail or wire should be sent to him, in care of Mr. Penry. Colonels Iglehart and Irwin, auctioneers. For further particulars and catalog write W. P. Penry, Radnor, Ohio.

Johnson's Giant Polands at Auction.

A sale of big-type Poland Chinas that the writer thinks is of especial interest to stockmen of the central West is the sale to be made by the well-known stockman, Gilbert Johnson, Osceola, Neb. The sale will be on February 11th. Osceola is very easy of access just now, as there are two passenger trains daily each way and good connections can be made at David City and Central City from nearly all points. Mr. Johnson has been breeding Poland Chinas for a number of years and it is the best of his productions that will be offered for sale. The sale offering is especially strong in the blood of J.'s Jumbo by Wade's Jumbo and we wish to say that this boar has proven a wonderful breeder. The fall stuff, the yearling sows and a part of the spring gilts are by him and we think they are the sort of stuff to buy. The remainder of the spring gilts are nearly all by Mogul's Pride by Mogul's Prince. All the sows will be bred to Hather's Hadley 2d or Choice Orange. Hather's Hadley 2d is the boar that topped the W. J. Hather sale last spring and he is also the sire of Hadley Over, the first-prize and champion boar at the recent International Stock Show. Hather's Hadley 2d has proven his ability as a sire and it is only for the fact that Mr. Hather wished to keep a big lot of sows sired by him that he was offered for sale last spring. Choice Orange is by Big Orange and out of the great breeding sow, Ott's Choice. He is a boar that was rated very high by Mr. James and should certainly make good as a sire. The writer would like to see a good attendance at this sale and we believe the offering warrants it. Those who cannot attend will receive the best possible treatment and attention by sending all bids to Thos. A. Shattuck, who will represent this paper at the sale. Do not hesitate to send bids on these hogs and send them early. Mention The Homestead and send for catalog at once. Address Gilbert Johnson, Osceola, Neb. See page 39.

Cottingham's Immune Duroc Bred Sow Sale.

On page 53 of this issue will be found the advertisement of Wirt A. Cottingham, Trivoli, Ill. On Saturday, February 15, 1913, he will sell forty head of extra well-bred sows that were immuned last June by the state virus and serum treatment. His herd boars were also given the same treatment. The writer a few days ago looked over the offering and we wish to recommend it to Homestead readers as first class in breeding and individuality. The herd boars are Cherry Prince by Cherry Kind, second-prize male pig at the Illinois State Fair, 1911; Ariatol by Good E. Nuff Again, and Young Defender. Surely this breeding will suit any Duroc man or farmer. The names mentioned above are seals of genuine quality. The offering is a fine, well-bred, thrifty lot, showing up well in pig. They are carrying the blood of John's Ohio Chief, Top Col., Orion Chief, Ohio Chief, Good E. Nuff Again, Col. S., Echo Top King, Cherry King, Inventor and others. This will surely make a good offering of well-bred stuff for Homestead readers who care to take advantage of the opportunity. Don't forget the attraction of the sale is the big sow by Echo Top King and her produce. Remember the Harding & Son sale at Brimfield, Ill., February 11th. Parties will find free entertainment at the Mayer Hotel the night between these sales. Good railroad service on the Iowa Central or M. & St. L. railroads. H. E. Browning will represent The Homestead. Colonels Iglehart and Reppert, auctioneers. For further information address Wirt A. Cottingham, Trivoli, Ill.

Glissman's Holstein Sale.

Those of our readers who want to buy Holstein-Friesian cattle cannot afford to overlook the great dissolution sale of H. C. Glissman at South Omaha, Neb., on February 4th and 5th. There will be 125 head in the sale, including eighty head of registered cows and heifers and young bulls, together with forty-five head of high-grade milk cows. Some of the best registered Holstein cows and bulls that have ever been sold in the West will be offered in this sale and there will also be a grand lot of splendid milk cows and cows right at their calving. This Rock Brook herd has been one of the greatest Holstein-Friesian herds in the West and here will be one of the occasions of a lifetime to buy some of this great breed. When writing Mr. Glissman for a catalog kindly mention this paper and remember the dates will be February 4th and 5th at South Omaha, Neb. See page 45.

Trotter's Jack and Jennet Sale.

On Febrary 27th, at Mt. Ayr, Iowa, W. T. Trotter will make a public sale of thirty head of jacks and jennets and it will be one of the best offerings that has ever been sold in the state of Iowa. He will sell fifteen jacks that will run from two to six years old and he has some good ones. Among these will be Jumbo Lad, a jack that Bob Harriman says is one of the best jacks in Iowa and Missouri. Another good one is John S., a seven-year-old, and one of the greatest mule breeders that has ever been here in the West. A lot of other good ones will be in the sale, together with fifteen high-class jennets. Mr. Trotter is regarded as one of the very best jack breeders today in the West, and there will be no disappointments on the part of those who attend his sale. If you write him at once and mention The Homestead he will send you a catalog of his sale.

Ed Hickey Buys Big Buddy.

One of the best purchases that has been made in a big-type Poland China boar in a long while was recently made by Ed Hickey, Gretna, Neb., when he purchased of Wm. Keep, Atlantic, Iowa, the large yearling boar, Big Buddy. He is a hog that is a hog, and when it comes to the strictly large-type kind they are all going to have to take off their hats to him. Big Buddy weighed 800 pounds in his yearling form a while before Mr. Hickey got him, and if he don't tip the scales at 1,000 pounds when he gets his age we miss our guess. This boar is bred right and the breeders are all going to like him. He is a son of Big Pete, he by Long Wonder by Longfellow 7th. His dam is Miss Sioux 3d by Billy Dart by Billy Young, and he traces to Mouw and Miller breeding through all his lines. He is a breeding boar as well as a large one and he will make a reputation for Ed Hickey and the man who sold him.

Slepicka's Short-horn Cattle Sale.

One of the really good offerings of Short-horn cattle to be sold in Nebraska this winter are the ones to be sold by Chas. A. Slepicka, Tobias, Neb., on February 14th. Mr. Slepicka is selling many of the very best ones he owns, especially of the younger ones. An item of interest and one we do not wish overlooked is the fact that nearly every cow of breeding age is bred to the great young bull, Diamond Digger, a son of the champion, Diamond Goods. The writer knows that Mr. Slepicka made many trips to see different bulls and the writer also inspected a number of promising young bulls for him, but none quite filled the bill until Mr. Slepicka saw Diamond Digger. He spent no time in making the purchase and we must say that, in our opinion, he is one of the very choice young bulls of the country. We also think that a cow bred to him would be a mighty good investment and hope to see a nice crowd of buyers at this sale. Send for the catalog today. See advertisement on page 43.

Stevens' Duroc Jersey Announcement.

O. R. Stevens, Rippey, Iowa, announces in an advertisement on page 51 that his annual public sale of Duroc Jersey sows will be held Thursday, February 6th. In previous sales Mr. Stevens has always forwarded a consignment of Duroc Jerseys that were satisfactory to buyers. The character of the present offering is fully up to that of any previous lot. Forty-two head of sows and gilts have been cataloged. It may be judged that the blood lines are of the right sort when it is stated that they are the get of I Am Perfection Wonder, Proud Advance, Keep On 3d, Col. Gano, Col. Chief, Choice Goods 2d, Liberty Chief and P. H.'s Col. On the side of the dams they represent such prominent strains as that of Golden Model, Liberty Chief (one of the biggest and best sons of Ohio Chief), Proud Orion, Nebraska Belle's Ohio Chief, Graduate Col. and Masterpiece Chief. Nearly a dozen of the lot are daughters of Mr. Harding's great hog, Col. Gano, and many of this bunch are animals of extraordinary merit from all points of view. The consignment will have been bred to Big Wonder, Cedar Hill Chief or O. R.'s Choice Goods. Big Wonder is the grandson of the grand champion, Crimson Wonder Again on the side of the sire and of Kruger's Chief on the side of the dam. He represents most prominent state fair prize-winning strains and himself captured fourth place at

NEXT WEEK'S SALE PROGRAM

Monday, February 3	Duroc Jerseys, R. J. Harding, Carson, Iowa.
Tuesday, February 4	Duroc Jerseys, Wm. Retzlaff, Walton, Neb. Duroc Jerseys, C. E. Veak, Essex, Iowa. Poland Chinas, Albert Smith & Son, Superior, Neb. Duroc Jerseys, F. H. Dickey and H. S. Fain, Emmetsburg, Iowa. Holstein-Friesians, Henry C. Glissman, South Omaha, Neb. Jacks and Jennets, Platte County Jack Sales Co., J. B. Dillingham, Mgr., Platte City, Mo. Poland Chinas, W. H. Cooper, Hedrick, Iowa. Poland Chinas, W. H. Barr & Son, Red Oak, Iowa. Duroc Jerseys, D. K. O'Day, Burnside, Ill.
Wednesday, February 5	Duroc Jerseys, Grant Lynn, Spirit Lake, Iowa. Poland Chinas, J. M. Glasier, Algona, Iowa. Duroc Jerseys, H. S. Allen, Chariton, Iowa. Hampshires, C. A. Brook, Washington, Iowa. Holstein-Friesians, Henry C. Glissman, South Omaha, Neb. Percherons, D. D. Case, Mgr., Hastings, Neb.
Thursday, February 6	Holstein-Friesian, A. J. Poderdorf, Logan, Iowa. Poland Chinas, Henry Fesenmeyer, Clarinda, Iowa. Duroc Jerseys, S. L. Weaver, Lake Park, Iowa. Poland Chinas, E. W. Kreischer, Mt. Vernon, Iowa. Duroc Jerseys, J. C. Droz, Fairfield, Iowa. Duroc Jerseys, Hanks & Bishop, Fairfield, Iowa.
Friday, February 7	Chester Whites, Chas. H. Murray, Friend, Neb. Duroc Jerseys, E. W. Davis, Glenwood Junction, Neb. Duroc Jerseys, J. Schmidt, Everly, Iowa. Poland Chinas, J. O. James, Braddyville, Iowa.
Saturday, February 8	Duroc Jerseys, Swan & Ellis, Indianola, Iowa. Poland Chinas, J. T. R. Nash, Minden, Neb.

Des Moines as the junior yearling. Cedar Hill Chief is the son of Liberty Chief. He also was at the Iowa State Fair. Catalogs giving full information may be obtained by addressing O. R. Stevens, Rippey, Iowa.

Murray's Immune Chester Whites at Auction—Last Call.

We are this week calling attention for the last time to the offering of immune Chester White sows that will be offered by Chas. H. Murray, Friend, Neb., on February 7th. This is an offering of Chester Whites that should appeal to all, for the stock is particularly high class and then they are immune and guaranteed to be as such. Blood lines of the very best, sows of great individual merit and in the finest possible condition is the sort that will be offered. Attend this sale if at all possible. You will find a class of hogs here that will certainly appeal to the lovers of the good ones. If you cannot be present bids may be sent to J. C. Price, representing this paper, and the same will be carefully taken care of for you. Careful selections and good values will be secured for you. Send bids early and send them to J. C. Price, in care of Mr. Murray at the above address.

Of Interest to Clydesdale Breeders.

W. J. Hather, Ord, Neb., one of the best known breeders and exhibitors of Clydesdale horses, will book a few more mares to be bred to the great International winner, Dictator. This is the sensational yearling showed in 1911 and he went back and did the trick over again in 1912. At Chicago, when thirty-one months old, he weighed 1,900 pounds. He is a horse that has only a few equals, and those of our readers who are within reasonable shipping distance of this great colt will find that it will pay them to send their good mares to this horse to breed. The terms are very liberal for this class of a horse and will be made known upon application. The writer considers him one of the best horses of this good breed that we ever saw. His ratings in the show ring confirm this opinion. Mention The Homestead when you write. Mr. Hather also has a few very choice Poland China boars for sale and twenty-five extra choice bred sows ready to ship. These hogs are the real "Hather kind" and that is all that need be said of them.

Crownover's Stallions.

Wm. Crownover, Hudson, Ia., writes. "My new importation is doing first class and are in fine shape for the trade. The two year olds are weighing 1,860 to 2,000 pounds and three year olds and over 1,900 to 2,250 pounds. I had then examined on January 2d and every horse passed sound, and I will furnish a qualified veterinarian's certificate to that effect. This means something to the prospective buyer. I selected these horses for their draft and wearing qualities. I think I can show as many big, flashy draft horses which have the best of feet, pasterns and joints and a good, heavy, clean, hard, flinty bone as anyone, and I will pay any man's expenses who visits my barns and can say he is disappointed in the size and quality of my horses. I have enjoyed a nice trade from old customers as well as new ones. I am going to make the lowest prices possible in order to reduce my herd. I have seventy-five head on hand and can give customers a fine selection in Percheron, Belgian or Shire stallions or mares. I will say to prospective buyers that it is to their own interest to inspect these horses before buying." See page 54 and when writing mention The Homestead.

Allen's Great Duroc Sale.

Those of our Duroc Jersey friends who want to get into the limelight cannot do better than attend the H. S. Allen sale at Chariton, Iowa, on February 5th. Forty head, selected as the best lot of sows he has in his great herd, go in, and twelve of these are bred to his world-renowned breeding boar, Crimson Wonder Again. Also eight daughters of the old hog are listed for the occasion and some of these have been leading prize winners at the fairs last fall. There will be daughters of the grand champion boar, Defender, in this sale; also about twenty granddaughters of old Ohio Chief. Besides these will be some good daughters of Chief Select, Valley King 2d, Crimson Chief Again, High Col., Advancer, Ohio Col., Proud Col. and others. Years come and years go, but the Crimson Wonders seem to go on forever. We remember well old Crimson Wonder, the founder of all the Crimson Wonder family. We first saw him as a pig at the home of our old friend, A. T. Cole, at Beatrice, Neb. The following fall we saw him at Lincoln, where he won first in his class, and were it not stolen from him he would have been the grand champion boar at that show. He was a wonderful boar and a great breeder and among the many great things he sired was Crimson Wonder I Am, also a champion boar at Des Moines, and he in turn was the sire of Crimson Wonder Again, a champion also at Des Moines, and one of the greatset breeding boars that has ever lived. A whole chapter might be written on the Crimson Wonder family, and were it not for this great strain the Duroc Jersey breed might not be where it is today. That the Crimson Wonders still occupy a most prominent positon in this great breed it is only necessary for us to point to the great line-up of leading herd boars, as well as the winnings of his sons and daughters and grandsons and granddaughters at the leading state fairs throughout the nation. As the old boar himself is getting quite old we cannot hope that he will go on indefinitely, and we therefore urge breeders to secure sows bred to him while they can. If you have not got the Allen catalog send for it at once. When writing for it kindly mention The Homestead. Bids sent to M. T. White, representing this paper, in care of Mr. Allen, will be properly attended to on day of sale. See page 48.

Podendorf's Holstein Sale.

On Thursday, February 6th, A. J. Podendorf will sell forty head of high-grade Holstein cows and heifers and some choice young bulls. Among the cows are some splendid milkers and others that will be due about sale time. It will be a splendid place to buy some good milk cows. The sale will follow the Glissman sale at South Omaha and parties can go direct to the Podendorf sale.

A Great Holstein Sire.

Elsewhere we present an illustration of the Holstein-Friesian bull, De Kol Hengerveld Burke, one of the herd bulls in use at the Idle Farm herd of T. H. Russell, Geneva, Ohio. This bull has proven himself one of the greatest of the present-day sires, having nearly thirty A. R. O. daughters, one of them, Urma Burke, with a record better than thirty-five pounds. He comes from strong ancestry, his sire, De Kol 2d's Butter Boy 3d, being one of the greatest sires the breed ever produced, 110 of his daughters having A. R. O. records and fifty-four of his sons being in the list. This is only one of the good sires Mr. Russell maintains in his herd, another one being Crown Prince Segis, a son of King Segis, a bull with more large record daughters than any other sire of his age. Mr. Russell's herd numbers close to 200 head, and there is no want in the Holstein line that he cannot supply in a satisfactory manner. Look up his advertisement on page 23 and write him your wants.

Two and three-year-old Mammoth jacks belonging to Al E. Smith, Lawrence, Kan. See field note.

Albert Smith & Son's Bred Sow Sale—Last Call.

This is the last opportunity we will have to call the attention of our readers to the Poland China sale of Albert Smith & Sons, at their farm northeast of Superior, Neb., Tuesday, February 4th. The offering will consist of forty-five head of tried sows, fall and spring gilts, and is one of merit throughout. The offering is bred strictly along big-type lines, the Nebraska type, as these breeders love to call it. The tried sows are among the tops of this herd and are listed as special attractions, while the gilts are a remarkably even bunch, heavy boned, strong backed and carry lots of size, in fact we doubt if a growthier bunch, age considered, will be sold this winter. Bred to the great sires at the head of this herd these sows should appeal to all lovers of the big, easy-feeding Poland. Remember the date and arrange to be present sale day. John C. Halderman will represent this paper at the sale. Send bids to him in care of Albert Smith & Sons.

J. O. James' Last Call.

On February 7th, J. O. James, Braddyville, Iowa, will make his annual sale of Poland China sows, and his will be one of the good offerings this year. Over twenty of the best sows that he will sell are daughters of Big Orange and he certainly has some good ones. Eighteen spring gilts by Big Orange will weigh right around 400 pounds and he never sold any better ones. Ten head of sows are bred to Big Orange and a great many to Olts' Big Orange and Big Sensation. Remember the sale will be held at Braddyville, Iowa, on Tuesday, February 7th, and it will be a good sale to attend. M. T. White will represent The Homestead at the sale.

A Big Short-horn Deal.

A consolidation of unusual magnitude was recently consummated in Montana whereby our old friend, Harry L. Summers, of Bozeman, but formerly of Malvern, Iowa, together with H. C. Childs and C. L. Anceny, formed one of the largest live stock companies in the West. Mr. Summers' noted College View farm near Bozeman was taken in and the Arceny and Childs ranches in Madison and Gallatin counties, comprising 3,000 acres, all go into the deal. The Summers herd, which is one of the best today in the West, was taken in, headed by the great bull, Master Avondale, and the new company has also secured the great bull, Cumberland Chief. We know the latter bull and will say that he is one of the greatest breeding bulls of the times. This bull was formerly owned by C. C. Norton, Corning, Iowa, and he is a son of the great sire, Cumberland's Last. When it comes to a breeding bull of strictly high-class cattle this bull, Cumberland Chief, will rank right up at the top. The new firm will handle Short-horn cattle, Percheron horses and Oxford sheep and will be under the active management of Mr. Summers.

Barnes' Sow Sale.

Another great offering of Duroc Jersey bred sows that will be sold this winter will be that of A. R. Barnes, at Petersburg, Neb., on February 13th. He is selling forty-five head and he is certainly selling some good ones. He is cataloging thirty yearlings and matured sows and these are sired by the old champion, Belle's Crimson Wonder; B. & L.'s Wonder, and Gold Dust Jim 2d. The gilts are sired by Belle's Crimson Wonder, Col. Chief, Golden Model 3d and B. & L. 2d. He is selling four litter sisters by B. & L.'s Wonder and out of Belle's Perfection that are outstanding good sows and they are bred to Col. Chief and Golden Model 3d. Two splendid Uneeda Crimson sows bred to B. & L.'s Wonder are among the very best things he will sell in the sale. Four good daughters of Belle's Crimson Wonder, out of a daughter of Proud Chief, the sow that sired his sensational Nebraska State Fair litter last fall and the sow that sired his first-prize pig a year ago, will be decided attractions in his sale. They are all bred to B. & L.'s Wonder and you will not find much better. There are two splendid daughters of Gold Dust Jim 2d in this sale and they are bred to Belle's Crimson Wonder and B. & L.'s Wonder. Among the great gilts he will offer are three by Belle's Crimson Wonder and out of that celebrated old brood sow, Peaches and Cream, and these are out of his good litter that he showed at the state fair last fall. The dam of these gilts is one of the greatest brood sows that ever lived and we know whereof we speak. She always raised the good ones. Two more good gilts out of Proud Chief's Pride will be decided attractions in his sale. These are sisters to the third and fourth-prize boars at the Nebraska State Fair in 1912. His offering throughout is an outstanding good one. Write for his catalog and make it a point to attend his sale. E. Z. Russell will represent The Homestead at this sale and will look after any and all bids sent him, in care of Mr. Barnes. See advertisement on page 41.

The Arney Angus Sale.

On February 27th, at his farm near Leon, Iowa, J. V. Arney will make a public sale of thirty-five or forty head of high-class Aberdeen Angus cattle. He is selling ten very choice Blackbirds, three Trojan Ericas and the remainder will be K. Prides and Pride of Aberdeens. Among these will be daughters of the great bull, Imp. Earl Eric of Ballindalloch, Imp. Black Jester of Ballindalloch, Imp. Proteros, Baltimore of Glendale and his own great breeding bull, Black Star 2d. It will be remembered that Mr. Arney's herd was a prominent factor in the leading shows the past few years and he got his share of the ribbons in competition with the greatest herds in the land. Many of these show winners will be included in the sale, together with ten or twelve young bulls. If you will only write Mr. Arney and ask for a catalog it will be sent as soon as it is off the press. Kindly mention The Homestead when doing so.

Veak's Great Duroc Sale.

On February 4th, at Essex, Iowa, C. E. Veak will sell a grand good offering of Duroc Jersey bred sows such as should command the attention of all those who want the very best. Among the best sows he will offer are a lot of daughters of his former herd boar, High Col., that was one of the best breeding boars used in western Iowa in recent years. Had old High Col. lived his allotted time he would have made a record that would have been hard to beat. As it was he lived long enough to show that he was one of the foremost of all the great breeding boars of his day. His daughters in Mr. Veak's last sale were eagerly sought after because of their size and finish, and he will again sell some good ones in this sale. Among the other good sows he will offer are daughters of the great boar, Select Chief, Cherry Prince, Proud Col. and Valley Chief 2d. He is now using three splendid boars in his herd, viz.: Cherry Prince, High Col. 2d and Crimson The Wonder. The sows will all be bred to this great trio and he has a great line up for the breeders in this sale. Write Mr. Veak for his catalog and kindly mention this paper. M. T. White will represent this paper at the sale and will properly care for any bids sent him in care of Mr. Veak. See page 49.

Reece Offers Hereford Bulls.

A Homestead representative recently had the pleasure of visiting P. W. Reece, Elmore, Minn., a man who has been doing some pioneering in the way of introducing pure-bred beef sires into his community. His farm is located near Ledyard, Iowa, where he owns 800 acres of elegant land which he has devoted to the raising of live stock. He now has over 100 head of pure-bred Hereford cattle and by selling his pure-bred bulls to the farmers in his community at rather low prices, he has induced them to raise a higher grade of steers which he buys as feeders and sends them to the market finished. Mr. Reece is a cattle man and takes good care of his live stock. At the present time he has a few bulls for sale at very reasonable prices. Among them is an extra good yearling bull, a thick, deep fellow that is priced at $150. There is also a good two-year-old bull in fine condition that $125 will buy. He has fourteen bull calves ranging in age from eight to twelve months and he is offering the choice of these at $100. We do not know where bulls as good as the ones Mr. Reece is offering can be bought for that money. Practically all of these bulls are sired by Royal Lynne by Masquerader by Lamplighter. If any of our readers are in need of a Hereford bull we would advise them to write Mr. Reece at once regarding these bulls, mentioning The Homestead, or better visit the farm. At the prices asked these bulls will soon be sold. See page 38.

Lefebure's Belgians.

Business is good, is the report we always get from Henry Lefebure, importer and breeder of Belgian draft horses at Fairfax, Iowa. He reports his horses all in the pink of condition, and the sort the American people are looking for. He reports sales since the International as follows: A roan Belgian to J. G. Scott, Shipley, Iowa; sorrel Belgian to Simon O'Donnell, Seneca, Ill.; bay Belgian to J. H. Rahilly, Dexter, Minn.; black Percheron to Herman Milke, Baraboo, Wis.; bay Belgian to Wm. Felten, Maquoketa, Iowa; sorrel Belgian to J. Serbosek, Fairfax, Iowa; gray Percheron to W. Ervin, Downey, Iowa; sorrel Belgian to J. H. Lacy, Harrison, Neb.; Belgian stallion and two mares to E. A. Kenoyer, Sidney, Mont.; black Percheron to Elmer Tow, Norway, Iowa; brown Belgian to J. Schneider, Elkader, Iowa; blue roan Belgian to H. C. Greengo, Glenville, Minn.; roan Belgian to Wilson & Reed, Morning Sun, Iowa. Besides sending us the above information he writes as follows: "So well was I prepared for the usual growth and increase in business that the above sales have not left me with an empty stall in my barns I have a large collection of the right sort for buyers to pick from. Men who are in need of a Belgian and who are ready to buy very seldom leave here without a good horse. I have a barn full of good strong colts coming three that weigh from 1,800 to 2,100 pounds, and the coming four to six year olds weigh from 1,900 to 2,400 pounds. I have no agents nor traveling salesmen; I sell all my horses myself at my farms and thereby save for my customers the agents' salaries, expenses and commis-

A FAIR AVERAGE OF THE JACKS IN G. C. ROAN'S SALE, LA PLATA, MO. SEE ADVERTISEMENT ON PAGE 42.

sions, all of which must be added to the price of the horse." Readers in need of a good Belgian or Percheron should write for Lefebure's illustrated horse catalog and arrange to visit his stables before buying. Please mention this paper when writing. See page 52.

Walker & Son's Poland China Sale.

Few breeders of the big Polands have been so successful in the selection of choice herd boars as have been Walker & Son, Alexandria, Neb., and their forthcoming sale of Poland China bred sows that will be made at Fairbury, Neb., on February 15th, is of special interest on account of this fact. It will be the only place to buy a sow bred to the great herd boar, Blue Valley. The writer is especially pleased with Blue Valley, as we have watched his growth from a pig, and he is fulfilling every expectation. The writer was convinced that there was a great outcome to Blue Valley when we saw him as a pig, but we scarcely thought that he would be quite as good as he is. Walker & Son consider him the best they ever bred and they have bred and raised a lot of the good ones. Blue Valley's Orange is the new boar and he was the top pig in the J. O. James October sale. He is a full brother to the pig that topped the August sale at the same farm and Mr. James is also using one of the same breeding. The writer would like to see a good lot of breeders at this sale, as we are convinced that they may attend this auction with profit to themselves and assist in keeping one of the greatest constructive breeders at his very best and encourage him to further effort. To those who wish a sow to produce a herd boar, or some new blood to supply high-class trade, we think this place will be especially interesting. Those unable to attend this sale will be treated the very best possible by sending a bid to J. C. Price, representing this paper. Get the catalog at once if interested and mention The Homestead when you write. See page 40 for advertisement.

Swan & Ellis' Sow Sale.

On Saturday, February 8th, at Indianola, Iowa, Swan & Ellis will make their first annual Duroc Jersey sow sale, and they will sell forty head that we take pleasure in recommending to our readers who want brood sows. While this firm are making their first annual sale they are not new to the business. They have been breeding Durocs for some time and they have been among the very best buyers the past two years. They have been very careful in their selections and have founded a first-class herd. In point of breeding you cannot find any better, as they have drawn from the greatest herds of the breed and they are selling sows that are daughters of some of the leading sires of the day. First and foremost is the fact that they will have thirty sows in this sale that are bred to their great herd boar, I Am A Crimson Wonder II., one of the very noted show and breeding boars of the present time. We cannot do better than to advise our friends to buy a sow or two bred to this splendid hog and then you will be right in line for better things in your herd, as he is a great breeding boar and has sired some of the best show winners. They are selling some splendid daughters of the old champion boar, Crimson Wonder Again, in this sale, and some splendid daughters of that remarkable boar, Col. Gano. You will also find there daughters of the Iowa State Fair champion boar, Freed's Col., Ohio Col., Chief's Protection and many other leading sires of the present time. The sale will be held right in town in a heated sale pavilion and everybody is invited. M. T. White will represent The Homestead at the sale and will care for any bids sent him, in care of Swan & Ellis. See advertisement on page 48.

Fowler's Great Poland China Sale.

One of the good herds of Poland Chinas of Nebraska, and first-class herd of Herefords also are owned by Morris Fowler, Arcadia, Neb. Mr. Fowler is what is known as a good stockman. He is a man who understands buying the right kind of breeding stock and is a good caretaker of the same. The writer would like to have every beginner in the stock business in Nebraska visit this farm and see the way that everything is cared for and, of course, Mr. Fowler is making money. He started only a few years ago with a rather meager start, but today he owns over a half section of land, has improved it with wells, fences and has recently added a new $1,000 barn to go with the other buildings that were put on a couple of years ago. Mr. Fowler has spent no time at college, or even high school, though he says that he wishes he had had the time to have done so; but, on the other hand, he has traveled much, has thoroughly posted himself on the live stock business and is absolutely making a success of the live stock and farming business. We cite this case in particular because we often hear that the business does not pay as well as it should. It does not pay at all unless conducted on a business basis, nor does any business, for that matter. But the fact is, that if a young breeder will start with the right material, handle his stock in a way that will develop them properly, the people are bound to come to that man for seed stock. Mr. Fowler has recently shipped Poland Chinas to Illinois, Iowa, Missouri, North Dakota and to many other points, even as far west as Utah. People have found out that he has the stuff. Mr. Fowler is advertising the fact and he has the goods to back up every statement. This is the place to buy seed stock right now. The sows that make up the sale offering for the February 12th sale are very choice. The writer has seen them and we pronounce them great propositions. Kindly notice the advertisement on page 40 of this issue and write for catalog at once and full information. Mention The Homestead when you write.

Wm. Retzlaff's Duroc Sale—Last Call.

The offering of Durocs that will be put up by Wm. Retzlaff, Bennet, Neb., on the 4th of February, is such that breeders and farmers who attend will find themselves well repaid for the trouble. Certainly many extra choice animals will be sent through the ring, and everything in the offering is of merit, as viewed from the standpoint of the pure bred. Mr. Retzlaff has been breeding good Durocs for a number of years, has been a lot of support to the business in the central West and we believe that it is due him that a good attendance be on hand for this sale. There are hogs good enough for anyone, and they certainly should be, for Mr. Retzlaff is a good caretaker, one who is never stinted for means to do with, and he has purchased the very tops from many of the best herds of the country. Do not overlook this sale. It will pay to be on hand. If unable to be present, you may send bids to J. C. Price, representing this paper, and the same will be well looked after.

STEVENS' BIG WONDER.

The above illustration represents the Duroc Jersey hog, Big Wonder, owned by O. R. Stevens, Rippey, Iowa. See field note on page 35.

Careful selections will be made, and you will be treated the best possible. The sale will be at farm, four miles southeast of Walton, six miles southwest of Eagle and seven miles north of Bennet. Free transportation from all points. The writer wishes to say again, do not overlook this sale.

Chapman's Duroc Bred Sow Sale.

On page 53 of this issue of The Homestead will be found the advertisement of J. W. Chapman, Woodburn, Ind. Mr. Chapman will sell thirty-five head of choice Duroc bred sows at his farm on February 10th. He has bought most of these sows at good, long prices. They are the tops of many sales and among them are several state fair prize winners. They are bred to a son of Volunteer, out of Lucy Superba. Superba Volunteer is his name. He was the writer's choice of this entire litter that brought $1,100 in Dr. Herr's sales last July and August. Lucy Superba, his dam, brought $525 in Smith & Rodgers' sale the other day. He is one of the best boar pigs the writer has seen all season. The other boar in service is by Defender and a good boar he is, too, and the man who buys a sow bred to him will never regret it. Thirty-five sows are offered in pig to these two boars. The star attraction is a Superba fall yearling dam, Helen's Duchess, that sold in the Browning sale at $675. Where can you get more Ohio Chief blood or a better sow individually? This sow should without doubt top the sale. Other good sows are sired by such noted boars as Defender, Superba, Volunteer, Instructor, B. & C.'s Col., Fancy Col., John's Ohio Chife, Harding's King of Cols., Model Wonder, Cherry King, Defender King, King's Col., Good E. Nuff Again, Col. Ohio Chief and Bold's Crimson Wonder. There are many great matrons in this lot with a flashy bunch of gilts. Come to the sale. If you cannot come send bids to H. E. Browning, representing The Homestead, Colonels Igleheart and Irwin, auctioneers. For catalog address J. W. Chapman, Woodburn, Ind.

Nash's Poland China Sale—Last Call.

In making the last call for the Poland China bred sow sale that will be made by J. T. R. Nash, Minden, Neb., on February 8th, we are calling attention to one of the really choice offerings of Polands to be sold this season. While the offering is mostly gilts, they are the real big, stretchy ones, the sort that make real brood sows. We believe they are as good a bunch of gilts as will be sold this season. They are practically all the get of the noted young boar, Gold Medal, and are bred to Long Jumbo, a son of Wade's Jumbo, and out of the great breeding sow, Long Wilkes by Imperial Wilkes. This is the sort of breeding that is making the Nebraska hogs famous, and right here is the real Nebraska kind. Breeders generally will find this sale a good place to be. They will find hogs that they can use with profit, and they will find that Mr. Nash is one of the most constructive breeders, as well as one of the best supports of the Poland China business in this section of the country. He is the sort of a breeder who is deserving of support and this offering is certainly deserving of attention. Those who are unable to attend may send bids to J. C. Price, representing The Homestead. The best possible selections will be made for you and you will be certain of getting good values. Address all letters to J. C. Price, in care of J. T. R. Nash, Minden, Neb.

The Droz-Hanks & Bishop Sale.

An important sale of Duroc Jersey bred sows will be held in Fairfield, Iowa, on February 6th. J. C. Droz, of that place, and Hanks & Bishop, New London, Iowa, will join forces in making a select offering of bred sows that should interest every good breeder of Duroc Jerseys. Mr. Droz will sell thirty head, twenty-nine of which will be bred to his noted sire, Cherry Chief. Cherry Chief is generally recognized as one of the great breeding boars of the present day, having sired some of the most noted boars of the breed, such as Chief Select, Cherry King, The Chief's Col. and others. In a sale like this will be an opportunity for breeders to secure a sow bred to Cherry Chief and raise a herd boar at a small expense. Breeders who have given this method a trial are very well pleased with this manner of getting a herd boar, as in the end it proves far cheaper and you can develop the pig to suit your own fancy. There will be eight yearling sows sired by The Professor, Golden Model 2d, Jack's Friend, Proud Col., Chief Protection, Col. Defender, all bred to Cherry Chief. There will be nine fall yearling sows sired by Proud Col. and a number of gilts sired by Proud Col., Advancer and Crimson Wonder I Am, all of which will be bred to Cherry Chief. One extra good Chief Select sow will be bred to Proud Col. Hanks & Bishop will sell twenty-five head, consisting of one good Model Chief sow, one fall yearling sow by Instructor, four gilts by Proud Col., four by Model Wonder, four by Proud Ohio Chief, one by Highland King and ten by Col. O., he by Proud Col., and these ten are all bred to Model Wonder, the great sire that has produced practically all of Hanks & Bishop's state fair winners at the Iowa and Nebraska State Fairs during the past five years. To the man who has attended the Iowa State Fair for the past five years it is not necessary to dwell on the merits of Model Wonder as a sire. The daughters of Model Wonder have won a number of firsts and have always been right at the top in the get of sire class and the produce of sow. Exhibitors always know that the progeny of Model Wonder has to be reckoned with when exhibited at the big shows. There will be nine sows bred to Wonder's Model, a son of Model Wonder that won second in the junior yearling class at the Iowa State Fair in 1912, and we might say here that this grand young boar had many friends for higher honors. This excellent young boar has as much size as can be found in a Duroc and has quality with it. There will be six sows bred to Proud Col., the great son of Proud Col. that has proven such a successful sire of sows. See page 39 and write for catalog, mentioning The Homestead. Carlos C. Palmer will represent The Homestead.

Of the forty sows that go in Orville O. Jones' Poland China sow sale for February 21st, nearly all are either sired by or bred to the above boar. He is one of the great boars of Nebraska. Mr. Jones' address is York, Neb. Watch for further announcements.

Iams' Stallions and Mares.

Frank Iams, the well-known horseman of St Paul, Neb., has the following to say regarding his stallions and mares: "Mr stallion buyer: Iams' 1912 importation of "Percherons and Belgians" are "Iams' best boy." They need no "state stallion law" to make them sound. They are all sound "bell ringers." Iams' peaches and cream stallions and mares are "rosy ripe"—in the pink of condition, and all must positively be sold. Get onto Iams' money-saving game. Buy stallions and mares today. Get stallions ready for spring business, Ikey boy. Be the early bird—they get the business and choice of Iams' topnotchers. Leave your happy home—visit the peaches and cream stallion man and save $1,000. Every day is bargain day—a horse show day—and a day of profit and pleasure at Iams' stallion and mare emporium—and largest in the United States at St. Paul, Neb. You will positively see here more imported stallions and mares—topnotchers—medal winners—ribbon grabbers, and every-day business horses—than at any horse plant in the United States, and double all others in Nebraska. Iams backs up his ads and catalog with a $500 bonus (no others do this). He gives five of the best banks in Nebraska for reference. Iams' 100 kings and queens of Percherons and Belgians are all topnotchers—the best bunch of big-boned, big drafters in the United States, and in the pink of condition. Iams is a big fly in the ointment in the horse business. He sets the pace for all competitors. Iams leads the procession, Ikey boy. Buy an imported stallion and two mares of Iams, the horseman who does things. Get into Iams' band wagon, don't be sidetracked by any hammer knockers. Ikey boy, waltz me around once again and land me at Iams' four importing barns and box office—filled to the roof with big, black boys and girls at bargain prices. Iams is the only horseman who really has the goods as advertised. Nineteen thirteen promises to be the most prosperous year in history. Mr. Democrat, "come on down town." All the world knows Iams, the big horseman. He has a loving feeling for horse buyers. He sold sixty imported stallions and mares to Iowa boys in 1912 and 100 topnotchers to the boys with brains in other states. Iams sells $4,000 imported stallions at $1,000 and $1,400 (some higher); imported mares in foal, 1,700 to 2,500 pounds, at $700 to $1,000; many medal winners. Iams sells the wide-as-a-wagon kind that don't need to be peddled or put on the auction block to catch suckers. Iams is a horseman in a class by himself—he is selling more horses yearly. Ikey boy, don't be the lobster; be the wise guy after all. Try Iams, the peaches and cream stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a warm spot in his heart for all stallion buyers. He saved $300,000 to stallion buyers in 1912 by selling direct to the people, saving all middlemen's profits. Iams is an expert horseman. He knows the topnotchers and delights in selling first-class stallions at less money than any competitors. He is pushin' and a-shovin' high prices off the Christmas tree. He is Johnny on the spot. He is selling more stallions than any ten men in the United States. He knows the tricks of the slick stallion salesmen who are pulling the wool over the eyes of the honest farmers and selling them a $1,200 stallion for $3,000. Ikey, form your own stallion company. Visit Iams' town of barns filled to the roof with big, black boys—"Iams' kind. His 100 stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 86 per cent blacks, 50 per cent ton horses, are a horse show better than the International. Iams' 1912 horse catalog is an eye opener, a bunch of gold, the book of books to stallion and mare buyers. It is full of truths, facts, business propositions, and eighty illustrations of the best and largest imported stallions and mares in the United States. True to life, the wide-as-a-wagon drafters—the real peaches and cream stallions. It shows the tricks of stallion peddlers and auction block salesmen. It is the finest, most elaborate and original up-to-date book in the world. Iams' thirty years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or a lady can buy as cheap as a man and get a better horse of Iams, the square-deal horseman. If you visit him and don't find every statement in his advertisement or catalog as represented, you can get the $500 that he hangs up. Iams guarantees to sell you a better stallion at $1,000 and $1,400 (few higher) than are being sold to farmers' stock companies at $2,500 to $4,000, with 60 per cent breeding guarantee, with freight and fare paid by Iams. He can furnish buyers $1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself. He buys stallions by special train load. He speaks the languages, saving 20 per cent. He is not in the stallion trust, saving you $300. He pays no slick salesman $100 to $1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions. He sells stallions by hot advertising and having the goods to make every statement good. Iams sells stallions so good that they do not need a slick peddler or the auction block to sell them. Iams

will save you $1,000 in commissions and middlemen's profits. Papa, dear, buy me a pair of imported mares of Iams. They will raise me colts at six months old that will sell for $500, and be good for twenty years. Iams has the kind that lay these golden eggs. Don't let one of these auction men hand you a lemon with one of these so-called American full bloods with questionable breeding. Iams' selling clothes fit all buyers. Write for Iams' million-dollar horse catalog. Iams' guarantee is backed by a half million dollars. See the illustration on this page.

Golden Model 2d Dead.

One of the greatest losses to the Duroc Jersey breed in recent years was the death of Golden Model 2d, which occurred last week. It means a great loss to Waltemeyer Bros., Melbourne, Iowa, in whose herd he has done service for several years and sired 250 state fair prize winners for them during that time. Golden Model 2d has a record unequaled as a sire of state fair prize winners and on February 11th will be the last opportunity to purchase a sow bred to this noted old hero. It is one of the great opportunities in recent years to get a sow that will raise a show litter by Golden Model 2d. See Waltemeyer Bros.' page advertisement on page 47. Write them for a catalog, mentioning The Homestead.

The Phelps & Case Horse Sale—Last Call.

Without question one of the greatest lots of pure-bred Percherons that are to be sold in Nebraska this season is the offering that will be put up L. M. Phelps, Trumbull, Neb., and D. D. Case, Giltner, Neb., the sale to be in Hastings, Neb., on February 5th. These gentlemen have selected Hastings for the sale for the reason that they are only a short distance from this point and that the railroad and hotel facilities are of the best. They will reserve no stock on the farms that the buyer might wish to see, for there will be none left. This is a complete dispersion of both of these studs. These gentlemen who are breeding these horses are of the very highest type of horsemen. They are men who have grown these horses under the very best conditions, have grown them as a part of their farming business and have used them for the operating power for their farms. There is nothing highly artificial about these horses, nothing that will hinder them doing well for the new buyer. They have been grown under the very best farm conditions, as we have just said, and by that we mean that they have had an abundance of rough feed, plenty of shelter from the storms in the way of windbreaks, but very little stabling. All of these horses of working age are well broken to work, have been worked in a good, sensible manner and certainly should be much better from the standpoint of the breeder who keeps only a small stud than the highly fed, little-worked horses that are offered by a few dealers. The writer has every confidence in the owners of these horses as horsemen. We believe that they have the right conception of the business and we feel certain that those who attend this sale on February 5th will be pleased with the horses that will be offered. Be on hand early and look the offering over carefully. Hastings is on the main line (Lincoln to Denver) of the Burlington, also the Aurora to Kearney branch of the same, and on the main line of the St. Joe & Grand Island railroad. Ample hotel accommodations.

Lonergan's Sow Sale.

On February 12th, D. C. Lonergan, Florence, Neb., will make his annual Poland China brood sow sale, and he once again puts up a splendid offering. Twenty fall sows, twenty tried sows and twenty spring gilts make up his list for this occasion and it is one of the good offerings of the season. These sows are sired by Big Victor, I Am Big Too, Big Tom, L.'s Quality and other noted boars, and they are bred to Big Victor, Guy's Price Last, Big Bob, L.'s Quality and King Giant. Among some of his best sows is May by Centennial, the dam of Futurity Jack, and she goes in bred to Big Victor; Victor Goods by Big Victor and Olin's Choice goes in bred to L.'s Quality; Sensation by Big Victor, the choice of that celebrated fall litter he sold in his sale a year ago, is bred to L.'s Quality; Lakeside Belle, a spring yearling by Lakeside Wonder, one of the greatest young boars seen in Iowa in recent years, goes in bred to Big Victor. He won't offer any better propositions than this sow. There are several other good tried sows in his offering. His fall sows are sired by Big Victor and I Am Big Too and his spring gilts by the same two boars and L.'s Quality. The Lonergan catalog is full of good things and you can depend on seeing a splendid offering in the sale. If you are a lover of the big kind and those that have the quality to go with it you should write for his catalog at once and then go to his sale. Kindly mention The Homestead when writing for it. M. T. White will represent The Homestead at the sale. See page 44.

W. H. Cooper's Poland China Sale.

W. H. Cooper, Hedrick, Iowa, has one of the good herds of big-type Poland Chinas to be found in the corn belt. Breeders who have had the opportunity to inspect the herd of sows owned by Mr. Cooper, as well as the herd boars he has been using, have always been loud in their praise of the type of hogs found. Mr. Cooper will hold his annual sale at East Side Farm adjoining Hedrick on February 4th. There will be a number of sows sired by the noted two-year-old boar, Big Bone 2d, Chief I. X. L. 2d and Chief Jumbo, the great boar bred by John Miller. Mr. Cooper will have one of the best offerings of gilts to be found in any sale. They will be big, smooth and have plenty of bone and some of them will be weighing 400 pounds by sale day. The gilts are sired by Big Bone 2d, Chief Ideal, Big Chief 2d, Mammoth Jumbo and others. The individuality and the blood lines of this offering entitle it to the consideration of the very best breeders in the country. The most popular families are represented in the breeding and the individuality will speak for itself on sale day. It is just the kind of hogs Mr. Cooper is raising that has in the past and will continue in the future to make the Poland China a popular hog. Mr. Cooper's sales are not decided on only a short time before the sale is held, but they are regular occurrences, and after one sale is held, preparations begin for the next sale. It has been Mr. Cooper's ambition to be able to offer the public better hogs in each succeeding sale and when breeders see the good sows in this coming sale we believe they will say he has succeeded in putting up the best lot of sows he has ever sold. Carlos C. Palmer will represent The Homestead at this sale. See page 43 and write for a catalog, mentioning The Homestead.

Barker's Lyon Chief and The Futurity.

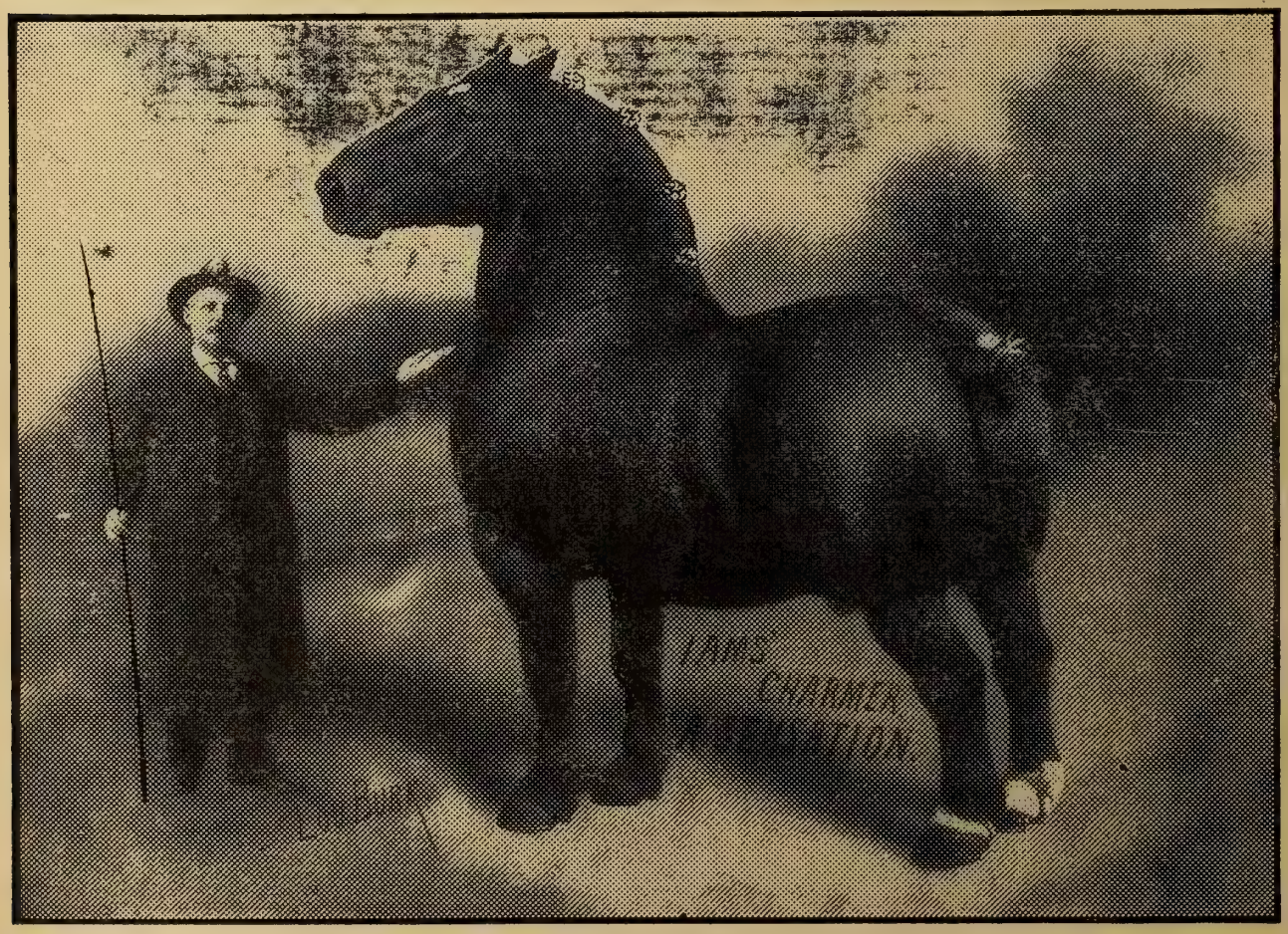
The above combination lends much attraction to the sale of Poland China bred sows held at Doon, Iowa, Thursday, February 13th. Fifty head of sows are listed for this sale and they rank rightly among the very leaders of this winter's sales. Several factors go to make this offering of high degree. One is the boar, Lyon Chief, which has proved to be an exceptionally good breeder of a useful type. Another is Mr. Barker himself, who not only is a good judge of practical stock, showing this in the selections for his breeding herds, but works hard to give the hogs in his charge a chance to develop the good qualities inherent in them. Then the facts that Mr. Barker's hogs have delivered the goods for his customers so they come back for more, also in winning enviable records in show, indicate the excellence of the herd from which this offering is taken. The fifty head include ten matured young sows, fifteen fall gilts by Great Expansion by Dorr's Expansion and twenty-five spring gilts by Lyon Chief and Mondamin Master. Among the gilts are the Iowa futurity winners and the first-prize gilt at Minnesota. There are also two litter mates to the first-prize boar pig at Des Moines last fall. One of the objects in the building of this herd is to produce big, stretchy hogs that feed out well and are easy to keep. Mr. Barker has had good opportunity to compare his breeding with stock of other lines and the largest sows ever seen in his herd were bred by him. But in securing size Mr. Barker has not sacrificed quick-feeding and early maturing qualities. The sows are bred to Lyon Chief, Lakewood Longfellow 2d, a big, stretchy boar and a sire of good selling stock, and Expanso, the first pick of the Dorr herd this fall, sired by Expander, dam Lady Wonder by A Wonder 107353, the Fesenmeyer boar. Mr. Barker's entire herd is entered for the futurity and as many litters as may be desired may be kept for this purpose by those who are looking towards the fall shows next season. The futurity litter of gilts are out of Gentle Jessie, a great producing brood sow. Her pigs have either won prizes themselves or sired winners at the Iowa, Minnesota and South Dakota fairs. She is the dam of Mondamin Master, the sire of a litter of great pigs, out of Mable's Choice 2d, the dam of the first-prize aged boar at Des Moines. She is certainly a great brood sow and reproduces herself in her offspring. The Futurity gilts are bred to Expanso and Mable's Master from the litter above noted and full brother to Mable's Giant, first-prize pig at Des Moines. As a prospect for good herd material we would like to call attention to the eight fall boar pigs and two gilts which will be sold at the sale. They are all good ones and are especially fine types of pigs. This whole offering ranks high. The bunch of fall gilts are very even, big backs, long, deep, full hams and on good bone and feet. The spring gilts averaged 325 pounds Christmas day and you may expect some 400-pound gilts sale day. Ray L. Gribben, Homestead representative, will attend the sale and will look after your interests on mail and wire bids to your satisfaction. Address E. S. Barker, Doon, Iowa, and kindly mention The Homestead. See page 42.

Theobold's Sale of Durocs.

The writer recently visited the home of J. C. Theobold, Ohiowa, Neb., and spent a little time in looking over the bunch of Duroc Jersey sows that will go in the sale that will be made by this good stockman on February 12th. We want to say that we saw some very high-class stuff on the place, and most of it goes in this sale. There are few breeders who have made the progress in the Duroc business in the same length of time that Mr. Theobold has made. The reason is a very simple one, however, as he bought the very best that he could get, regardless of the price. He purchased a couple of the very best known brood sows that were for sale in Iowa and got them mated to good boars. He has much of the stuff on the farm today and they are sure classy. He also bought some of the top stuff of the H. Smith & Sons herd at Tobias, Neb., and they, too, have done well. We feel safe in saying that the offering that will be put up by Mr. Theobold is the sort that will appeal to those looking for the real good ones, and we doubt if there will be a half dozen better offerings sold anywhere in the country this season. This sale is the second of a circuit, following the sale of H. H. Shaw, Hebron, Neb., and coming the day ahead of the sale of H. H. Koenig, DeWitt, Neb. These three herds are all good ones right now and the men who are building them are the sort of men to keep in mind, for they are progressive. They have not all followed the same line of building their herds, but they have thus far gotten much the same results. Mention this paper and send for catalog of this sale at once. See page 44.

Messenger's Hampshires.

Clayton Messenger, Keswick, Iowa, is one of the best-known breeders of Hampshire swine in the state. The winnings of his herd at the Iowa State Fair during the past few years have entitled him to a place in the front rank of Hampshire breeders. At the head of his herd is the undefeated grand champion, Messenger Boy, a boar that was exhibited at all the leading western fairs in 1911-12 and never met defeat. At some fairs he has been shown against all breeds and has always won over his competitors. Messenger Boy has been said by many breeders who are competent to know, among them such men as A. L. Goodenough, Morrison, Ill., to be the best Hampshire boar they have ever seen. The writer cannot recall having seen a boar with as good a set of feet and legs as has Messenger Boy. He has all the other good qualifications necessary to the makeup of a good boar. Better still, his record as a sire has just begun. Mr. Messenger will show a number of his sons and daughters at the leading state fairs next year and we predict that they will be strong competitors for first honors in their re-



Iams and a Paris winner, and second at Nogent le Retrou and Chartres, 1911, three largest French horse shows. It took the $10,000 Percheron to place this horse second place, two largest Percheron shows in France. Weight 2,300 pounds.

TOO LATE TO CLASSIFY.

HAMPSHIRE SOWS BRED TO MESSENGER BOY

THE undefeated GRAND CHAMPION BOAR of 1911 and 1912. I have a few good yearling sows bred to MESSENGER BOY, and a few to Capt. Jack's Model by Capt. Jack. Write soon if you want one and mention Homestead.
CLAYTON MESSENGER, - - - KESWICK, IOWA.

Hereford Bulls

I HAVE a good thick yearling at $150. A good 2-year-old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, and they are good ones. Lamplighter, Karl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa.
P. W. REECE, R. 3, ELLSMORE, MINN.

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.
P. J. EGGERS - Denison, Iowa.

FOR SALE

HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.
E. P. HAMILTON & SONS,
Garden Grove, Decatur county, Iowa, R. F. D. 2.
23 miles southwest of Chariton,

D. S. POLLED DURHAMS

10 BULLS, 10 to 18 months old, all red, good individuals. Herd established 18 years. Prices reasonable. Write what you are in need of. Farm within town corporation. Address
L. L. HENNINGSEN'S SONS, Dike, Iowa.

KEAN'S DUROCS have length, color, bone and breeding. Bred gilts and yearlings. A few good ones left for April farrow. Priced worth the money. Frank Kean, Mt. Pleasant, Iowa.

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

spective classes. At the present time Mr. Messenger has a few yearling sows bred to Messenger Boy for March and April litters that he will price worth the money. A few sows are also bred to Capt. Jack's Model, a son of Capt. Jack. A Homestead representative recently visited Mr. Messenger's herd and we cannot recall having seen a better lot of sows than we found here. Mr. Messenger expects to raise over 100 pigs by Messenger Boy another year, as he has had such an urgent demand for the get of this great boar. See page 38 and write Mr. Messenger your wants, mentioning The Homestead.

Davis' Duroc Dispersion.

We want to call the attention of our readers to the important dispersion sale of Duroc Jerseys to be held by E. W. Davis, Glenwood, Mo., on February 7th. This sale will afford the Duroc Jersey breeder an opportunity to get grand champion blood galore. Model Queen, the noted Nebraska and Kansas champion sow of 1910; Chief's Maid's the Iowa grand champion sow of 1912, and Ohio Col., the grand champion boar at the Kansas State Fair in 1910, will all sell in this sale. Ohio Queen is another great prize-winning daughter of Ohio Chief that should prove an attraction. Each of the three sows above mentioned have raised fall litters and are in the most useful conditon for their future usefulness. A number of fall yearling daughters of Model Queen were prize winners at the state fairs this year and will be sold, as well as the fall litters of the three sows mentioned above, and among them are some of as good fall pigs as can be found. There will be plenty of material among these pigs for under-year show prospects another year. In this sale are daughters of Model Chief, Chief Select, Prince of Cols., Ohio Col., Blue Ribbon Chief, Valley King Again, Model Wonder, Proud Ohio Chief, Proud Col., Golden Model, King of Cols. and many others. The noted boar, Ohio Col., is one of the good herd boar propositions to be offered for sale either publicly or privately this year. Sons and daughters have been prize winners and he is backed by the best blood lines to be found. He will sell to the highest bidder on sale day. Successor is a yearling son of Advancer No. 1, his dam being by Top Notcher Chief. A number of the sows in the sale are bred to Successor and he will also be sold. He will be a good proposition for anyone wanting a herd boar. Write for a catalog, mentioning this paper. Carlos C. Palmer will represent this paper at the sale.

Henry Dorr Sells Polands at Marcus, Iowa, Tuesday, February 11th.

Henry Dorr, Remsen, Iowa (sale at Marcus), sells sixty head of bred Poland China sows of the Dorr type in his sale this year on the date given above. This is his fifteenth annual sale and his best. It is an inspiration to any lover of good hogs and enthusiast in the principles of breeding to see the line-up of both his fall and spring gilts. Among them are some of the most popular winners of this year. In addition to having bred winners in their own herd, Mr. Dorr's stock in other hands has shown the same prize-winning qualities, and some of the best shows made last fall were of Dorr breeding. A further fact that shows the quality of breeding at this place is that there is not a sow going in the catalog that is not good enough for its breeder to keep in his own herd. Mr. Dorr's idea in selecting stock for his herd is not to boost any line of breeding in particular, but he does go after the good hogs, wherever they may be. He doesn't claim all the good hogs in the country, either, but he does have right on his farm nothing but that kind of hogs. Breeders are welcome to compare them with the best. These sows are big, too, they have good stretch, bone and feet and their descriptions in other respects may be easily surmised when it is remembered that the three prize-winning fall gilts at the Sioux City fair are included in the sale offering and that the rest of the bunch are of the same type. In fact, there is one fall gilt which was not shown this year at all that is the equal of the ribbon wearers and fully their equal, too. The thirty fall gilts are by Dorr's Expansion and twenty more are bred to him. The best breeding boar he has ever owned is the way he expresses it. A look at the uniformity of the lot got by this boar is convincing proof of his breeding powers. The spring gilts are by Big Defender, a first-prize pig at Sioux City and sold late last summer to go to one of the most prominent breeders in Illinois and sold at a good, fat price. Others are by the winning Expander, including the gilts which took prizes this fall. Expander was runner-up to the great 800-pound yearling boar, Blue Valley Chief, and there are in this sale three gilts by the latter boar. Now, if that isn't some regal array to put in a sale, there never was one. Then look at the winning boars they have been bred to: Dorr's Expansion, Expander, Big Monarch by Golddust Hadley and Big Tecumseh by Blue Valley Chief. Lest it be feared that this is top heavy with prizes, it should be stated that in addition to sending out stuff which wins at the fairs, Mr. Dorr's trade among farmers who raise only market hogs has been satisfying in every way; his stock makes good money for that purpose. There is an excellent reason, too. It is backed up by a line of ancestry which is uniform in type. There are no mixed-up outcrosses and they breed as they are expected to. Ray L. Gribben, Homestead representative, will attend the sale. Mail and wire bids sent him will be used honorably and to your advantage. Address, mentioning The Homestead, and catalogs will be sent immediately, Henry Dorr & Sons, Remsen, Iowa; railroad station, Marcus, Iowa. See page 42.

W. H. Barr's Sow Sale.

On Tuesday, February 4th, W. H. Barr & Son will sell a grand good offering of forty head of Poland China bred sows in the new heated sale pavilion at Red Oak, Iowa. Some of the sows they are selling are exceptionally choice, among which are Long Tecumseh 88th, one of the best sows to be sold this winter, two years old October 10th, a big, handsome animal with quality, bred to Pawnee Sensation. Sensation Bell is a March 20th gilt, black as a crow and as sleek as an eel and Mr. Barr had some very tempting offers for her, but he has turned them down; but she goes in this sale as one of the attractions. She will weigh very heavy and has quality and finish to please all. Four extra fall gilts by B.'s Mastodon

WIRT A. COTTINGHAM,

Trivoli, Ill., whose advertisement of a Duroc bred sow sale on February 15, 1913, appears on page 53 of this issue.

out of Lady Prospect that will be just as good as any breeder will sell. Their dam is a litter sister to Long Tecumseh that is included in the offering. Two April gilts that are sisters to Nos. 10 and 11 in the catalog, you will say are yearlings because they are so large, and plenty more of the good, useful kind that pleases everybody who sees them. Two of the best April gilts are sired by Pawnee Sensation out of Long Lady Hadley by Long King's Equal. They are extra large and smooth and will weigh over 300 pounds now. We could mention more good things that will be offered. They are bred to Pawnee Sensation, Orange Longfellow and B.'s Mastodon. The catalog is instructive, it contains information that you ought to know, and Mr. Barr would be very glad to send it to you and we hope that you will make arrangements to give him your presence sale time. We will say this for our old friend, W. H. Barr, that there is not a more reliable nor painstaking breeder in the state and he and his son are going to show you a splendid offering of bred sows on this occasion. Make it a point to be at Red Oak on February 4th, and secure some of these sows they will offer at that time. See advertisement on page 52.

Nelson's Duroc Sale.

Western Duroc Jersey breeders will be interested in the Fred Nelson sow sale at Lindsay, Neb., on February 11th, first, because of the great line-up of sows he will offer, and secondly, because of the great number that will be bred to his noted grand champion boar, Valley King. Nearly everything in the sale will be bred to this noted boar. Valley King is the greatest son of that celebrated boar, Valley Chief, unquestionably one of the greatest sons of old Ohio Chief. Valley King was a champion boar at the Iowa and Nebraska State Fairs in 1911 and was the greatest boar out that year. Mr. Nelson secured him last winter to place at the head of his herd, not alone because of his winnings, but also because of his ability as a breeding boar. He is a wonderfully large boar and has weighed close to 1,000 pounds. This offering should therefore be a very attractive one to those breeders and farmers who want to retain a little size in their herd. He is selling twenty-five yearling and matured sows and fifteen of his very best gilts. There will be eight splendid daughters of old Red Chief Wonder in the sale, also daughters of the Nebraska champion boar, Belle's Crimson Wonder, Medoc Over, Crimson Jack and Pride's Crimson Over. His gilts will be sired by Valley King Sensation Wonder. There are just two of these Valley King gilts in the sale and they will be bred to Red Chief Wonder. There are a few also that are sired by Col. Chief, Red Chief and Uneeda Crimson Wonder. The breeding of the sows in his sale are all that the most exacting breeders can look for, and individually they are a splendid lot throughout. A sow bred to the old grand champion boar, Valley King, is one of the best propositions that an up-to-date Duroc Jersey breeder can buy. Write Fred Nelson, Lindsay, Neb., for catalog and kindly mention The Homestead. See advertisement on page 46.

The above illustration is a good likeness of a group of sows shown by Hanks & Bishop, New London, Iowa, at the Iowa and Nebraska State Fairs, 1911. See their sale advertisement on page 50.

Harding & Son's Duroc Sow Sale.

One of the very best offerings of Duroc bred sows to be sold this winter is that of Wm. Harding & Son, Brimfield, Ill., on February 14th. Harding & Son are progressive and, while they have one of the good herds of the land, they are always willing to add an animal that bids fair to improve their herd. The writer has visited this herd at different times and always found lots of good hogs. Uniformity is a desirable thing in the breeding business and they sure have it. They are breeding the big, smooth kind with quality and finish, the kind that raise large litters and mature quickly and fill the pork barrel early in life. What have they done to bring about such results? They have always been careful in selecting good specimens of this type, but always of the very best breeding. A great big, smooth son of the noted Choice Goods was first used on Proud Advance, Inventor, Col. and Ohio Chief sows. Then they bought Proud Defender by Defender, dam Proud Fancy by Proud Advance. This boar has been a wizard for improvement in the herd and many of his produce will be offered in this sale, among which are show prospects. Twelve choice gilts are bred to him. These are the get of the next boar in line, Meddler by Proud Chief by Ohio Chief, dam by Golddust Jim. This boar has proved his worth as a sire, as his produce will show. This boar was the top of R. J. Harding's August 6, 1911, sale and was third-prize senior yearling boar at the Illinois State Fair in 1911. Supreme Goods by F. J.'s Choice Goods by W. L. A.'s Choice Goods is another great young boar in use and was bred on the farm. Their latest purchase was the great brood sow, Fond Memory, bred to Volunteer, from

JOHNSON'S GIANT

POLANDS

IN AUCTION

AT FARM NEAR

OSCEOLA, NEBRASKA

Tuesday, February 11

45 BIG, smooth sows and gilts will make up the offering. Every tried sow listed has proven an extra good mother. Every fall sow and spring gilt is of especially good breeding and individuality. The offering is strong in the blood of J.'s Jumbo by Wade's Jumbo and for size and bone they are hard to beat. Some are by Mogul's Pride by Mogul's Prince and the offering is bred to **Hather's Hadley 2d** and **Choice Orange** by Big Orange. Try to be with us sale day or be represented. Col. A. W. Thompson, auctioneer. Thos. A. Shattuck, field man. Send all bids to him. Address (mention The Homestead) for catalog

GILBERT JOHNSON, Osceola, Nebraska.

W. P. PENRY'S COL. BEABOUT SALE

RADNOR, OHIO,

TUESDAY, FEBRUARY 11, 1913

40 The Best Duroc Sows I Ever Offered

20 **BRED to Col. Beabout.** Others bred to Cherry King, Superba, Defender, Highland King and King Thomas. Sows are by fifteen noted sires. One May boar by Superba, dam by Cherry King. H. E. Browning will represent The Homestead. Cols. H. L. Igleheart and W. H. Irwin, auctioneers. For catalog address

W. P. PENRY, - - RADNOR, OHIO

A POLAND CHINA BRED SOW SALE OF IMPORTANCE TO ALL BREEDERS

Will be made by THOS. F. WALKER & SON, ALEXANDRIA, NEBRASKA,

SALE TO BE HELD IN SALE PAVILION, FAIRBURY, NEBRASKA, SATURDAY, FEBRUARY 15, '13

This will be a sale of importance to nearly every Poland China breeder of the country, as it will contain many sows that are the sort needed to improve new herds and to sustain older ones. The best breeding obtainable will be found here, and the individuals are the sort that please good judges.

The get of the great breeding boar, **Blue Valley,** will be found here in such numbers that those who wish them may be supplied. His daughters are mostly bred to **Blue Valley's Orange,** the top boar in the James October sale. This will be the only place to buy a sow bred to **Blue Valley.**

Try and be on hand sale day. It is a sale that few can afford to miss. Best of hotels in Fairbury, and good train service. Main line, also branch of Rock Island. Hack meets Burlington trains at Kesterson, 3 miles south of Fairbury. Send for catalog at once. See these hogs sell if possible. H. S. Duncan, Auct. J. C. Price, field man. Mention Homestead and address

THOS. F. WALKER & SON, ALEXANDRIA, NEB.

which they rightfully expect to get another herd boar. We wish to call attention to the fact that prices have always been very reasonable in Harding & Sons' sales and the wise readers of The Homestead will take the tip that it is a good place to go to buy first-class stuff. H. E. Browning will represent The Homestead. Colonels Igleheart and Reppert, auctioneers. For catalog and further particulars write Wm. Harding & Sons, Brimfield, Ill. advertisement on page 53.

Skillen's Duroc Sale.

On February 10th R. M. Skillen, Greene, Iowa, will hold his second annual sale of Duroc Jersey bred sows at his farm, five miles west of Greene. He will sell forty head of two-year-old, yearling and fall yearling sows and spring gilts. There will be eleven fall yearling sows by Chuck's Model, noted breeding son of Model Chief, and these are bred to Prince of Wonders, a son of the noted Iowa champion, Crimson Wonder Again. There will be three two-year-old sows sired by Waveland Ohio Chief and one by Kelly's Pilot Wonder. Twenty-five gilts by Select Goods, Merfield's Wonder, Waveland Ohio Chief and Chuck's Model complete the offering. The two-year-old sows are bred to Chuck's Model and the gilts are bred to Skillen's Col. Gano, a full brother to Col. Gano, the noted sire and show boar owned by Messrs. Harding and Seddon. This young boar is a very promising fellow and looks like developing into a very valuable sire. There will also be a few gilts bred to Advancer Chief by Model Advancer. This is Mr. Skillen's second offering and he has made a special effort to get together a bunch of sows that would be a credit to his ability as a breeder. He has used only the very best boars and boars that were bred along the most fashionable lines, and the offering will show that he has been successful in breeding and developing the type of hogs that are in demand at the present time. The offering is a good one all the way through and we urge those intending to buy bred sows to make their arrangements to attend this sale. Send for a catalog, mentioning The Homestead, as per the advertisement on page 49. Carlos C. Palmer will represent The Homestead at this sale.

Roan's Fourth Annual Jack and Jennet Sale.

G. C. Roan, La Plata, Mo., proprietor of the Clover Leaf Valley Jack Farm, will hold his fourth annual sale of jacks and jennets on Monday, March 10th, selling forty head divided about equally, twenty jacks and twenty jennets. Mr. Roan has spent his entire time since a boy breeding and handling jacks and jennets and knows the business as do few. Since starting his annual sales he has each year offered a better lot than on any preceding year, and this, his fourth annual sale, will be no exception. He is arranging for the comfort of his guests by erecting a large sale pavilion and it is his intention to dedicate it by selling such a superior class of stock that all will be pleased with his efforts to furnish the best only. The twenty jacks are blacks with mealy points, and in point of bone, constitution, heads and ears are a superior lot. Mr. Roan has this year more two and three-year-old jacks than he has ever offered at one time and it is our opinion that the more discrimnating buyers will be greatly pleased with these. The older jacks are animals Mr. Roan is prepared to stand squarely behind with as good a guarantee as is given. He knows them, knows the kind of colts they sire and will cheerfully tell buyers just what a record each has made. He has paid much attention to the securing of jacks with great constitution, bone, heads and ears, and has been careful to get a uniformly good lot in his barns for this sale. He has no small fellows that are not desirable and is following out his plan of selling such stock as in his judgment will please the greatest number. The twenty jennets are regular breeders, some sell with colts at foot and practically all are bred to Mr. Roan's stud jack, J. C., a jack that has few superiors as a sire. Mr. Roan wants you to write now for his catalog so that you can see how the stock is bred. It contains the picture of every jack in the sale and all were made from pictures taken since January 1, 1913. Note page 42 for his advertisement and when writing him kindly mention this paper.

MORRIS FOWLER'S GREAT SALE

POLAND CHINA HOGS **BELGIAN HORSES** **HEREFORD CATTLE**

ARCADIA, NEBRASKA, WEDNESDAY, FEB. 12, 1913

30 HEAD of Big Poland China Sows will go in the sale. They are the get of Great Wonder and a few other noted sires, and are bred to TOM SAMPSON, a son of Shattuck's noted boar, Sampson, and another young boar, a son of Lingford's Sampson. These are a great pair of boars, and the sows are the real brood sow kind. Have sold no gilts this fall. Every one has been kept for this sale. Have shipped boars to most of the corn-belt states.

ONE BELGIAN STALLION WEIGHING CLOSE TO A TON

He is right in every way. Breeding and guarantee made known sale day.

TWENTY-FIVE HIGH-CLASS HEREFORD CATTLE will also be offered. Mention The Homestead and write for full information. Address

MORRIS FOWLER - - - ARCADIA, NEBRASKA

Tuesday, February 5th, at Grant Lynn's.

On the above date, at the farm, four miles northwest of Spirit Lake, Iowa, Grant Lynn will sell his offering of brood sows in a comfortable new pavilion. There will be something over forty head of extra choice Duroc Jersey sows and gilts. Of the eighteen tried sows every one is a producer of the first class and have with only one or two exceptions produced two litters this year. They are in good condition, indicating their vigor as breeders, as it is the sows which produce at high pressure and which come back in good conditon for the next litter that are the profitable kind of brood sows to have. The gilts, sired by the good boar, Evergreen Prince, are a nice lot, averaging unusually good in stretch. King's Defender, a son of the great prize-winning and champion boar, Defender, sired a number of real good gilts this season. Only choice individuals are cataloged in the sale. The young herd boars, G.'s Crimson Wonder by Crimson Wonder I Am and Lynn's Golden Model, are extra good ones and we look for the Crimson Wonder boar to develop into one of the worthiest of the get of this famous sire. The gilts by Evergreen Prince and bred to this young boar will be as good bargains as any sale can offer. Just look them over sale day and then look at the boar. The yearling sows offered are choice sows individually, stretchy and having farrowed two litters this year, all big ones, it shows them to be breeders. Several are by the old herd boar, Col. Grant, that Mr. Lynn sent to the Mr. Herkelmann herd at Elwood, Iowa, a year ago. Col. Grant sired big hogs and gave them lots of bone and stretch. There is a yearling, Golden Helen by a son of the old Golden Model, bred to Evergreen Prince November 22d that will be a good one to buy, because she looks like a real brood sow and, besides, has delivered the goods already in this herd. Of a litter of six gilts by Evergreen Prince, out of Orange Lady, a sow bred strongly in Advance and Dale blood, there are four in the sale.. Some extra breeding is found in the gilt by Evergreen Prince, out of a sow by Freed's Col., second dam by Manley Orion, and the gilt herself is a top-notcher. Mr. Lynn has made a wonderful improvement in his herd during the last three or four years, he is a progressive man with whom it is a pleasure to become acquainted and his herd is one with which acquaintance is profitable. There is no "boom" on in his herd, but the merit is there and characterizes the offering of this sale. Send for catalog if you have not gotten one already and be sure to attend the sale if you can use good brood sows bred to good boars. This sale is the second of the circuit, beginning with Dickey and Fain at Emmetsburg, the day before and closing with J. Schmidt at Everly on Friday. Mention The Homestead in writing for catalogs and you will receive prompt attention. If it is not possible to attend Ray L. Gribben, field man for The Homestead, will handle mail or wire bids conscientiously to your advantage. Address Grant Lynn, Spirit Lake, Iowa. See advertisement on page 49.

De Kol Hengerveld Burke, one of the prepotent sires in the Idle Hour Farm Holstein herd of T. H. Russell, Geneva, Ohio. He is one of the greatest of the present-day sires, and is a son of De Kol 2d's Butter Boy 3d, with a record of 110 A. R. O. daughters. See advertisement on page 23.

Williams & Sons' Sow Sale.

On February 13th, at Villisca, Iowa, L. B. Williams & Sons will make their annual sale of forty big-type Poland China sows, and this firm never fails to put up a good offering. They breed the large kind and have been breeding that kind before we heard very much of big-type Polands. They were in the business when the Perfections and the various show types were winning all the ribbons and were selling for the thousands, and even at that time they stuck to their big ones. They saw the day roll around when they had what the people wanted and they are again selling that same kind in this sale. For this occasion they have selected six of their very best tried sows. Three of these are daughters of their splendid breeding boar, Surprise All; two are daughters of Victor Hadley, and the other is a daughter of old Extended Jr. Four good fall sows that go in the sale are all daughters of Surprise All. They have drawn on thirty head of spring gilts and they have some outstanding good ones. Readers of The Homestead will remember they made a boar sale last fall and it was one of the best of the fall season. These gilts are in most cases litter sisters to that string of boars and there are some outstanding good ones in the bunch. These gilts are sired by Orphan Wonder, a son of the 1,040-pound boar, The Big Orphan, and the latter boar was one of the most conspicuous winners at the Nebraska State Fair last fall. Orphan Wonder is a splendid boar and it now looks as though he might follow in the footsteps of his illustrious sire. Then there are some very excellent gilts in the sale by W.'s Quality, a son of the great Blue Valley Quality, that formerly headed the Thomas Walker herd over in Nebraska, and the balance are sired by old Surprise All. Among these are three extra choice gilts by W.'s Quality and out of Isabel by Big Wonder, the latter being a 1,000-pound boar that headed the W. L. Hanna herd at Corning, Iowa. These three gilts are litter sisters to the $100 boar pig in their fall sale that went to A. Z. Scott, Massena, Iowa. Two of these are bred for March and the other for April farrow and they have all kinds of size and plenty of quality. Then there is a litter of five by Surprise All and out of Blue Valley Priceless 3d that are hard to beat if you want the strictly large ones, and these are all bred to Orphan Wonder. Write L. B. Williams & Sons, Villisca, Iowa, for catalog and kindly mention The Homestead. See advertisement on page 46.

NEBRASKA'S GRAND CHAMPION DUROCS

100 HEAD CHOICEST SOWS 100

FEBRUARY 12

A. W. LAMB, ALBION, NEBRASKA

55 HEAD. 20 TRIED SOWS, 35 GILTS

I AM selling fourteen tried sows, six fall sows and thirty-five spring gilts. Seventeen of these are bred to the Nebraska champion boar, **Belle's Crimson Wonder**; ten to **B. & L.'s Wonder**; four to **Golden Model 3d**; five to **Dusty Crimson**, champion at Albion Fair and nineteen to **Riverview Wonder.** These are sired by the old champion, Belle's Crimson Wonder, B. & L.'s Wonder, Red Chief Wonder, Ray's Wonder and other noted prize-winning boars. Catalog now ready. When writing for it kindly mention The Homestead. Address

A. W. LAMB - - - ALBION, NEBRASKA

Col. T. C. Callahan, auctioneer.

FEBRUARY 13

A. R. BARNES, PETERSBURG, NEBRASKA

45 HEAD. 30 TRIED SOWS, 15 GILTS

I AM selling as good an offering of sows as has ever passed through a Nebraska sale ring. Daughters of such noted sires as **Belle's Crimson Wonder, B. & L.'s Wonder, Gold Dust Jim 2d, Blue Ribbon Model, Uneeda Crimson Wonder,** and others. These are bred to the old champion, **Belle's Crimson Wonder, B. & L.'s Wonder, Col. Chief,** and **Golden Model 3d.** In point of breeding and individual merit, you will find this offering one of the greatest of the year. Write for catalog and mention Iowa Homestead. Address

A. R. BARNES - - PETERSBURG, NEBRASKA

Col. T. C. Callahan, auctioneer.

E. Z. Russell will represent The Homestead at these sales and will care for any bids sent in his care.

White & Smith's Short-horn Sale.

The fifty head of Short-horn cattle that White & Smith will sell at Chicago, Ill., February 12th, are a lot of show and breeding propositions that should appeal very strongly to those wanting the best. Leslie Smith is a master cattleman and he presents this offering confident the cattle will satisfy the most critical. The breeding is of the very best and the cattle will be sent forward in that high-class condition for which Mr. Smith is noted. There are forty-one females in the offering, including a number of daughters of the undefeated grand champion, Ringmaster, while nearly one-half of the balance are either bred to this bull or have calves at foot by him, and the prospective value of these matings is impossible to estimate, not only on account of the worth of Ringmaster as a sire, but also from the fact that many of the females are outstanding show propositions. Roan Queen, the grand champion cow at the 1912 International, is cataloged for this sale. She is the winner of twenty championship ribbons, which tells sufficiently the story of her individual worth. This grand cow is due to calve two weeks after the sale to the service of Ringmaster, a fact that adds greatly to her value. Snow Queen by Superbus, dam Imp. Pitlivie Caroline, the dam of the champion, Ringmaster, is an outstanding show heifer, winner as a calf and as a junior yearling. She has lots of character, is very deep and thick and should be in demand sale day. Another good one is Cheerful 8th, a Clipper, first as a senior yearling last year at Sedalia and fourth at Chicago. She is a top animal in any company and is bred to the champion, Ringmaster. An evenly balanced one is Violet Ruby by March Knight and out of one of the best producing cows in the herd. She is well along in calf to the service of Ringmaster. Lavender Princess 7th and Sparkling Gem are two strong heifers and both are bred to Ringmaster. A very sweet daughter of Ringmaster is listed in Dainty Duchess, belonging to the Broadhooks tribe, and Flower Girl 14th by Ringmaster, out of a March Knight dam is attractive, both as regards breeding and individuality. Queen Gloster by a son of Bapton Ensign is a thick, meaty young cow and is made doubly attractive from the fact that she sells with a heifer calf at foot by Ringmaster. Sweet Jessamine 3d sells with a roan bull calf at foot by Ringmaster. Mr. Smith is keeping last year's bull calf from this cow, also sired by Ringmaster, as a herd prospect. He has refused $1,000 for this young bull. There are plenty of other attractive female propositions in the sale, all bred right and made right, the sort that one may confidently look for at the hands of so excellent a breeder and fitter as Leslie Smith. Nine bulls are in the list, including four youngsters by the champion, Ringmaster, probably the best of which is Royal Master, out of a Victoria dam, belonging to a branch of the tribe very rare in this country. He is a youngster of excellent lines, strong head and the rugged sort that should develop into a successful sire. Two younger calves, a Broadhooks and a Duchess of Gloster, both by Ringmaster, are in the list and both are very attractive calves, well made, well meated and out of strong dams. There are other excellent young bulls by good sires that will please you on sale day. The offering is one of high merit throughout and the sale should be liberally patronized by the Short-horn fraternity generally. If you have not already received a catalog send for one at once to White & Smith, St. Cloud, Minn., as per the advertisement on page 45. When you write kindly mention The Homestead.

A Sale of Duroc Jerseys from Prolific Breeding.

A selection from 225 head of pigs raised last spring, one of the most severe seasons for raising pigs that most breeders remember, is offered by J. Schmidt at Everly, Iowa, as the final event in the series of northern Iowa Duroc Jersey sales. His date is February 7th and the sale will be held in a heated, roomy pavilion at the farm, six miles north of Everly. We think there is much in favor of a bunch of gilts which could be selected from such a large number of pigs as this. It shows that the herd is in the hands of a breeder who must give care and attention of the most exacting sort, and we believe other breeders like to buy from a man who manages his stock in this way. There is an evenness of type among the gilts that will be sold, and they certainly are in prime breeding condition. We predict a set of more than usually satisfied customers in the buyers at this sale. Mr. Schmidt wants to put in only the best for just that reason, and he has made his selections very carefully. The gilts are out of sows that are bred in the best lines and come from most noted stock, as the following will show. There are gilts to be sold from sows by Royal Muncie by Muncie Chief, Iowa Broadback by Minnesota Broadback (first at the Minnesota and South Dakota fairs), Model's Boy by G. P.'s Model, Greever's Orion (a Minnesota prize winner and sire of winners), Crimson Dale by old Dale, Ohio Chief 4th and Freed's Col. Just as a sample of the prolific sows on the farm is Nancie by Ohio Chief 4th, dam by Model's Boy, which farrowed a litter last spring of fourteen, raised nine of them, all good ones, and three of the five gilts of the litter will be sold sale day. They are by Col. Tientsin and one will be bred to Royal Muncie, the other two to Col.'s Model, a big, smooth fall boar the most active sort and desirable type. He has been used on most of the yearlings and some of the young sows also. The older sows which will be sold are a very thrifty appearing lot. They were in nice condition and did not look as though they would be loaded with fat as for a market day sale. They have nicely arched backs, are stretchy and a good-footed lot. They have bred well for Mr. Schmidt and are in their prime, so will be useful on other farms. It is a rugged offering all through and will make friends for its owner. When you write mention The Homestead. Ray L. Gribben will attend the sale for this paper and will handle your bids honorably. Address J. Schmidt, Everly, Iowa. See advertisement on page 49.

Glasier's Algona Poland China Sale.

J. M. Glasier, Algona, Iowa, sells his excellent draft of Poland China brood sows at Algona fair gronnds Wednesday, February 5th. This is a big-type herd, characterized by good bone throughout and size as well. The breeding Mr. Glasier has selected has been that which has had the real merit of producing size, big litters and a smooth type of a pig. Some of the breeding with best records back of it is found in the catalog and the records it has made since coming into Mr. Glasier's bands show both the good results expected of good breeding and the handling of a practical hog man. We would recommend especially that those living in the central northern part of Iowa (not barring anyone from any other location who wants and needs this better class of hogs attend this sale, for it is full of good things, selected from a herd managed skillfully and as well as any, but built up quietly. Mr. Glasier's offering is entitled to rank equal with most of the big breeders, but he has been very modest in pushing his herd forward. Just to refresh memories of the description of last week, we give the breeding of Big Kossuth, the herd boar that sired the majority of the spring gilts. He is by Ellerbroek's A Wonder, dam Mollie B. 2d by King, second dam Mollie B. by Chief Leader, out of the famous old Mollie Fair. The young service boars, Valley Longfellow and Count Halvor Jr., are well bred in the choicest big-type breeding. Valley Longfellow is a boar of the most generally accepted big sort, with length and exceptionally big bone and good feet. There is a two year old that looks like the prize-winning type we see at the Nebraska and Sioux City fairs and at Des Moines. She is the dam of a yearling sow by the great Colosso, which will be sold. No. 12 is an unusually good sow also and there are gilts that will be profit makers on any farm. We have confidence in this offering and freely advise prospective buyers to attend. The sale is to be held in comfortable quarters on the Algona fair grounds and Mr Glasier will have some of his herd, which he takes back for another breeding season, there to show you his type. When you write for catalog mention The Homestead. Mail or telegraph bids may be sent to C. C. Carlin, Homestead representative, who will attend the sale. Address J. M. Glasier, Algona, Iowa. See advertisement on page 48.

H. H. SHAW'S ANNUAL SALE

DUROC JERSEY BRED SOWS

Will be held in Pugh's sale pavilion,

Hebron, Nebraska, Tuesday, Feb. 11th

IN THIS sale offering will be found Durocs that are high class enough to meet with approval by the most exacting. Everything is of the very best blood lines, and is drawn from the very tops of many of the best herds of the country. It is our aim at all times to put up for sale only such hogs as we know will do justice to the breed and credit to our herd. Probably as good a sow as will sell this season East or West will be found here. She is Hebron Queen by Lincoln Wonder. She is not the only good one in the sale, but she is as good as the best anywhere. Many of the sows that will be offered are bred to the great young boar

CRIMSON WONDER CHIEF

by Crimson Wonder 3d and out of a dam by Chief To Be. Others are bred to Rosebud's Wonder by Col. Wonder and out of the great sow, Rosebud's Pride. Try and attend this sale. We want you to be with us. Col. W. J. Thompson, Auct. J. C. Price, field man. Mention The Homestead and address for catalog

H. H. SHAW, HEBRON, NEB.

LINGFORD'S GREAT

POLAND CHINA BRED SOW SALE

Will be held in Bradstreet & Clemens' sale pavilion

GRAND ISLAND, NEB., THURSDAY, FEB. 13, '13

50 HEAD, mostly Gold Dust Hadley and Sampson sows. That a sow is bred to or sired by Gold Dust Hadley or Sampson is about all that need be said. Most of this offering are. A few are bred to Revenue Exception, the best young boar that I could possibly find last fall. He is a grandson of Exception. Every one of the sows listed for this sale are the real utility kind. Every man who bought in my last winter sale made money. They will do so again this year, as I breed hogs that make money for all they consume, and they are ready to market at desirable ages. They are the kind that can and do win in the greatest hog show on earth, the Nebraska State Fair. Attend this sale, or send bids to J. C. Price, field man. Col. Z. S. Branson, auctioneer. Mention The Homestead and send for catalog at once. Address

W. A. LINGFORD, DANNEBROG, NEB.

DORR'S 15th ANNUAL POLAND CHINA SOW SALE

MARCUS, IOWA,
(POSTOFFICE, REMSEN, IOWA)

TUES, FEB. 11, 1913

65 HEAD practically everything our own breeding, and we will be glad to have you compare them with the best you have seen. Thirty-four gilts all sired by Dorr's Expansion. Spring gilts by Big Defender Expander, a few by the great champion, Blue Valley Chief. Offering bred to Dorr's Expansion, Expander, Big Monarch by Gold Dust Hadley and Big Tecumseh by Blue Valley Chief. Our herd has produced prize winners for us. Stock we have sold has produced prize winners for others. Farmers who breed only for market have made good money with our breeding. This is the best offering we have ever made and is bound to keep the record straight.

H. S. Duncan, J. A. Benson, auctioneers.

HENRY DORR & SON, REMSEN, IA.

SALE AT MARCUS.

Ray L. Gribben, field man for The Homestead.

40 Poland China Sows Sale in Heated Pavilion

Des Moines Futurity Litter to be Sold.

E. S. BARKER, DOON, IOWA.

Lyon Chief or his sons sired first-prize pigs at Iowa, Minnesota and South Dakota, 1912

J. A. Benson, Auctioneer.
Ray L. Gribben, Field Man for Homestead.

Sale, Feb. 13, 1913. DOON, IOWA.

J. M. PEERY

ALVORD, IOWA,

FRIDAY, FEB. 14, '13

A DISTINCTIVE offering of 45 Poland Chinas, 28 fall gilts, 10 spring gilts and a half dozen tried sows. The entire lot is made up of the same kind that have given success wherever we have sent them from previous sales. Many of them have produced boars which are among the tops in several herds. There are good things in plenty here. Sows and gilts sired by Peery's Long Orange by Big Orange; Great Expansion by Dorr's Expansion; Jessie Chief by Lyon Chief; Big Bone; Chief Price Again, and Ruebel's A Wonder. Our selections for our herd have been consistently along a definite line. All bred early and real brood sow types.

J. A. Benson, auctioneer.

J. M. PEERY - ALVORD, IOWA.

Ray L. Gribben, field man for The Homestead.

Emmetsburg Duroc Jersey Sale.

We are this week running the last notice of the sale of Duroc Jersey bred sows to be held by F. H. Dickey and H. S. Fain at the sale pavilion of Mr. Dickey's on his farm in the edge of Emmetsburg, Iowa, on Tuesday, February 4th. This offering is noted for being the consignment of the best of the two herds and for that reason should contain the very best sort of sows. As we stated last week, the boars that have sired the offering are all big ones and, in addition, the sows are bred to some sires that are even a little better than the older ones, a point that would naturally be expected of the more up-to-date breeders who are always looking to the improvements of their herds when making purchases of herd boars. The young boars that Mr. Dickey has used this season were of the sort that carry good lines of breeding, as, for example, the young Crimson Wonder boar, D.'s Crimson Wonder by the great prize-winning Crimson Wonder I Am, out of a sow by Model Advance. He used, in addition to this one, another which is called D.'s Crimson Critic by Crimson Critic, out of a Golden Model-bred sow. We think the most prominent feature of the herd at Mr. Dickey's is the great lot of matured sows that he kept for his breeding herd last winter, a bunch that won most favorable comment from everyone who attended the sale and got a chance to look over the breeding herd the day of the sale. As was noted in these columns last week, the young gilts that Mr. Dickey will sell are from this great lot of sows and it means that they have a good deal of "come-out" in them. The offering from the Fain herd is quite a little ahead of the sows put in by this man a year ago, and is a particularly good lot this year. There are some good gilts by the old herd boar, Fain's Select, a boar which has made a lot of improvement since a year ago, now being a hog that has as much size as one would want in a boar and, best of all, has sired a lot of gilts that have the same size and are long in body, wide, especially well ribbed, and among them are some that will put improvement in most any herd into which they may be taken. One of the heaviest gilts in the sale, one weighing close to 375 pounds, is by this boar and out of a sow by the old champion boar, Freed's Col. She is square built, has good feet, is of a desirable color and an all-around toppy sort. Three other gilts by Fain's Select, out of a dam by Model Wonder, are listed, and in their favor it should be remembreed that they are three cracking good ones from a litter of ten. What was perhaps the very choicest pig in the middle of January was a spring gilt by Fain's Select, out of a sow by Jack Jumbo, bred for early farrow to Missouri Model Top Jr. The gilt weighs 350 pounds, is a showy thing all over and bred to the young Missouri Model Top boar. She ought to start a lot of competition when her turn comes in the ring. We feel like saying a word for this young boar, although he was given plenty of attention a week ago. It took him five or six months to show his excellent qualities, due undoubtedly to the severe weather at farrowing season, but when he began to develop he showed real character and breeding appearance that made Mr. Fain stop his search for a young boar for breeding service this fall. (Mr. Fain bought him in dam.) He is now a rugged sort of a boar, wide and deep, with his legs put right out where they belong and plenty of length. He has good bone and stands very straight and strong on his toes. He certainly is a "comer." You will like the offering these men make and you will have a comfortable place sale day in the pavilion at Mr. Dickey's farm. Write for catalog, mentioning The Homestead. Ray L. Gribben, representative of The Homestead, will handle mail or wire bids in your interest. For catalogs address either F. H. Dickey or H. S. Fain, Emmetsburg, Iowa. See advertisement on page 49.

My Fourth Annual Jack and Jennet Sale of the

CLOVER LEAF VALLEY JACK FARM

WILL be held in my new sale pavilion at La Plata, Macon county, Mo., on March 10, 1913, when I absolutely guarantee to sell the best bunch of jacks and jennets that I ever have offered for sale and one that will equal or surpass any offering of this stock made during the year 1913. Every jack and jennet registered and black with white points. I want you to write now for my catalog illustrated with the photographs of every animal taken from life January 2, 1913, and telling you more truths about this stock than I could possibly put in a great big five-page advertisement costing thousands of dollars. I sell more jacks that pay for themselves in one and two years than any man in the world.

WRITE FOR IT NOW

G. C. ROAN, PROP., LA PLATA, MACON COUNTY, MO.

Humerick's Sow Sale.

On Saturday, February 15th, Chas. W. Humerick, Atlantic, Iowa, will sell fifty head of his big, quality kind of Poland China brood sows and he is one of the breeders who always put up a splendid offering. In fact, we never did see Mr. Humerick run a poor lot of sows through a sale ring and he is going to keep up his reputation this time by selling one of the best bunches of brood sows that will go through a sale ring during the month. He is cataloging twenty of his very best tried sows and they are sired by New Tecumseh, Big Jericho, Iowa Model, Smooth Wonder 2d, King Wonder and Victor Hadley. His spring gilts will be sired by Victor Hadley, Big Buddy and the great boar, King Wonder. He is also selling one extra good brood sow that is a daughter of Extended King. She is one of the very best brood sows he will offer and she is out of a daughter of Big Jericho and she goes into the sale bred to Big Tom Jr., a son of the noted winning boar, Big Tom. Another good sow is a daughter of Iowa Model, he by old Crow's Model, and she is also bred to the same boar. He is selling an outstanding good spring yearling out of this sow and she is sired by Black Crow, a Crow-bred boar, and she is bred to Big Tom Jr. A good yearling by Big Jericho and out of Jessie Jumbo 2d, a daughter of old Long King, and by the way she was the top sow in his sale last winter, and she goes in bred to Big Tom Jr. A good daughter of King Wonder goes in bred to New Tecumseh for an early litter and she is one of the good sows he will offer in the sale. There are others, too numerous to mention, but the catalog will tell you all about them. Send for it at once and mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Humerick, will be attended to on day of sale. See advertisement on page 46.

The great Duroc Jersey show and breeding boar now at the head of Swan & Ellis' herd at Indianola, Iowa. See field note regarding their sale.

Lamb's Great Sow Sale.

One of the greatest offerings of Duroc Jersey brood sows that will be sold in the West this winter will be that of A. W. Lamb, at Albion, Neb., on February 12th. He is going to catalog fifty-five head and never since he has been in the business has he been able to put up such an offering, and it is conceded that he has heretofore sold some great sows. Included in his offering will be fourteen yearling and matured sows, six fall yearlings and thirty-five spring gilts. Seventeen of these are bred to his old champion boar, Belle's Crimson Wonder, and these in themselves would be sufficient attractions for any one sale. But he has other good propositions to offer. He will also sell ten head that will be bred to B. & L.'s Wonder, the second-prize junior yearling boar at Lincoln in 1911. Five sows in this sale will be bred to Dusty Crimson, the grand champion boar at the Albion County Fair, and here should be some attractions to those who want to get into the blood of the large kind and at the same time the leading winning kind. This boar, Dusty Crimson, is a son of the champion, Belle's Crimson Wonder, and he is out of a dam by the 1,000-pound boar, Dusty Critic. Mr. Lamb sold this boar to G. E. Samuelson for $400, but he bred five sows to him for this sale before he went. Nineteen head in the sale will be bred to Riverview Wonder, a son of Wallace Wonder. Among his attractions is Fancy Maid by Wallace Wonder, a wonderfully good sow, and she is bred to Golden Model 3d, a son of old Golden Model 2d. Nora Wonder 2d, a yearling, sired by B. & L.'s Wonder, is also one of the choicest sows he will offer and she goes in bred to Dusty Crimson for an early litter. Her litter sister will be No. 3 in the sale and she is also a good sow. He is selling some of the best fall sows and the grandest lot of spring gilts that you ever saw and not a poor one in the bunch. This is a strong statement, but we will back it up on sale day when you get your eye on the bunch. By all means

CHAS. A. SLEPICKA'S
SALE OF SHORT-HORN CATTLE
At farm near TOBIAS, NEBRASKA, FRIDAY, FEBRUARY 14, 1913

This consignment of Shorthorns contains cattle carefully selected, well grown and nicely conditioned. They carry blood lines that ensure quality.

Most cows bred to the great bull, Diamond Digger, by the champion Diamond Goods

It is the place to buy choice herd-heading bulls. Some nice farmers' or range bulls or choice cows for the breeding herd. Come and see them yourself.

Let us send you the catalog. It contains detailed breeding and other information of the offering. Col. W. J. Thompson, auctioneer. Address, mentioning The Iowa Homestead,

CHAS. A. SLEPICKA - - - TOBIAS, NEBRASKA

send for the Lamb catalog and when writing for it kindly mention The Homestead. E. Z. Russell will represent The Homestead at the Lamb sale and will care for any bids sent in his care. See page 41.

Widle & Son's Grand Champion Offering.

One of the greatest Duroc Jersey brood sow offerings that will be sold in the state of Nebraska this winter will be the fifty-five head that R. Widle & Son will sell at Genoa on February 10th. One of the decided attractions in their sale will be the fact that thirty-five or forty head will be bred to the champion and grand champion boar, Critic B. This noted boar is a son of Dusty Critic 2d and he is a line-bred Critic boar and carries with him all the size of the celebrated Critic family. Widle & Son got championship on him at Lincoln and championship and grand championship on him at Topeka. Nearly all of their best sows are bred to this noted boar, and they will have attractions almost too numerous to mention. They will sell fifty-five head and twenty of these will be yearling and matured sows. Ten head of these will be daughters of the well-known boar, Uneeda Crimson Wonder, the boar that formerly headed their herd. They are selling three of their very best shows sows and these are all daughters of this boar and are all bred to the grand champion boar, Critic B. Among these show sows is the first-prize junior yearling at Topeka. Among the tried sows is a daughter of old Prince of Cols.; a daughter of the champion boars, Belle's Crimson Wonder and Freed's Col.; two daughters of Wallace's Wonder; five cracking good fall sows by Crimson Wonder 4th, first-prize junior yearling at the Nebraska State Fair, and thirty head of spring gilts are sired by Lincoln Chief, first-prize Nebraska State Fair boar and one of the greatest sons of old Belle's Chief. The remainder are sired by Allen's Wonder Again, B. & L's Wonder, Blue Ribbon Model, Golden Model 4th and Red Chief Wonder. Few sales in Nebraska this winter will offer such an array of brood sows that are sired by as many noted prize-winning and breeding boars as Widle & Son will sell in this sale. They are also selling a good Freed's Col. sow bred to the grand champion boar, Valley King. Their offering is uniformly good from beginning to end and you will see some grand good sows in their sale. There is no better, more reliable nor painstaking firm breeding Durocs today in the West than Widle & Son and what you buy of them will be right or they will make it right. They are mailing their catalog to those who apply for it. Drop them a postal card and ask them to place your name on their mailing list and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of the above firm, will be cared for on day of sale. See page 48.

Kreischer's Poland China Sale.

E. W. Kreischer, Mt. Vernon, Iowa, will hold his second annual sale of big-type Poland China bred sows on February 6th. Mr. Kreischer has gotten together fifty head of fall yearling and yearling sows for this sale, the equal of which would be hard to find in any one herd. He has purchased a number of these sows from such good breeders as W. H. Cooper, Hedrick, Iowa; Geo. H. Burge, Mt. Vernon, Iowa, and others. He did this in order that he might have a larger number to select from and be able to pick out fifty high-class sows for this sale. Mr. Kreischer has been improving his herd from year to year by the purchase of some of the best sows to be had, as well as using the best big-type boars obtainable. The noted 1,000-pound boar, Mastodon Chief, has been in the herd for three years and has left an excellent lot of big, smooth sows, a number of which will sell. Mastodon Chief is one of the best big-type boars to be found in the country, having been purchased at the closing-out sale of W. E. Wheeler, Harlan, Iowa, at a long price to use in Mr. Kreischer's herd. The sows will be sired by Big Bone 2d, W. H. Cooper's noted herd boar, by Mastodon Chief, Tecumseh Prince, Thor, Chief Jumbo and a number of other noted sires. This sale will afford the Poland China breeder who wants to buy some high-class sows bred to noted boars, an excellent opportunity to supply his wants at a reasonable price. As there are so many good ones to sell there will be sure to be many bargains. If interested write Mr. Kreischer for a catalog, kindly mentioning The Homestead. C. C. Carlin will represent The Homestead at this sale. See advertisement on page 44 of this issue.

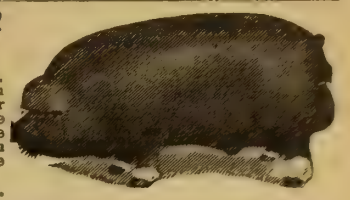
Theo. Martin's Short-horn and Poland China Sale.

Theo. Martin, Bellevue, Iowa, will sell Short-horn cattle and Poland China hogs at public auction on February 13th. The sale will be held at Lawndale Farm west of town. The Short-horn offering consists of twenty-four head, nine of which are bulls and the balance females. Mr. Martin has been working along constructive lines in his breeding operations, both in cattle and hogs. Several years ago he recognized the value of high-class stock for a foundation and he has been continually improving his herds by the use of first-class sires. Any of our readers in need of a good herd bull should keep this sale in mind, as it will afford those in need of such an opportunity to supply their wants either in a high-class Scotch bull to use on pure-bred females or for a big, strong, rugged bull to sire market-topping steers. A June calf of the Rosebud family, sired by Monarch Viceroy, is one of the thickest, mossy-coated calves the writer has seen in some time. From all indications he should develop into a high-class animal such as any breeder would be proud to own. Monarch Viceroy, Mr. Martin's herd bull, has been a prize winner at the Iowa State Fair during the past three years, will also be sold. He is of the Princess Royal family and sired by Orange Monarch, the bull that has sired a great many prize winners for the Messrs. Purdy, of Missouri. A yearling Fashion bull is one of the good individuals of the sale and will meet with approval on sale day. There are other good bulls of the Rose of Autumn, Victoria and Young Mary families that will be sold. The fifteen females include the noted show cow, Victoria Pride, by Fancy Pride and out of Victoria Alexa by Red Robin, second dam Imp. Victoria Mary, a cow that produced thousands of dollars' worth of calves for N. A. Lind. Sweet Fashion is a two-year-old daughter of Monarch Viceroy and is every inch a show heifer. She won sixth at Des Moines in 1911 and fourth in 1912. There is a two-year-old heifer by Monarch Viceroy and out of Victoria Favorite by Imp. Fashion Favorite. Victoria Favorite is a daughter of the show cow, Victoria Pride. Beauty Rosebud is included in the sale. She is the dam of the extra good bull calf above referred to. There will be two good heifer calves, one a Butterfly and the other a Duchess of Gloster. Thirty big-type Poland China sows sired by Big Bone, Big Bone Expansion, Columbia Dude, Peerless Monarch and Big Jumbo have been cataloged. These sows have the size, smoothness and heavy bone that is desired. They are bred to Big Jumbo, one of the biggest, heaviest boned boars of which we know, and Dude's Masterpiece, a son of Columbia Dude. You can secure Mr. Martin's catalog by addressing him and mentioning The Homestead. See page 51 for advertisement.

W. H. COOPER, LIVE STOCK AUCTIONEER
BREEDER OF BIG-TYPE POLAND CHINAS.

WE OFFER FOR SALE NOW gilts, yearlings or aged sows, bred for early February, March, and orders booked for April farrow. We will sell 30 March and April gilts, bred for March and April farrow at $35.00 each, or three for $100, big early gilts of last spring farrow, bred for February and March litters at $40 each. A few big yearling or aged sows $50 up, bred to the great two-year-old boar, Big Bone 2d, and Big Expansion, a son of Dorr's Expansion, they are sired by Big Bone 2d, Big Chief 2d, Ideal Chief and other noted boars. Every sow has been vaccinated and cholera immune. Satisfaction guaranteed or return the sow and money will be refunded. Our great sow sale February 4th.

W. H. COOPER - - HEDRICK, IOWA.



MULE-FOOTED SWINE.

MULE-FOOTED HOGS
THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS
FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address **ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio**

Mule-Foot Hogs
Oldest breeder in the state. Pedigreed stock for sale.
Samuel Johns, Sec. A., Wilmington, Ohio.

50 HEAD POLAND CHINA SOWS FOR SALE 50
WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.
WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS
I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address
E. F. ESCHER - . - MANNING, IOWA

BIG-TYPE POLAND BRED GILTS
THESE gilts are sired by Longfellow 2d 183143, and Giant Wonder 183147, and are bred to Giant Wonder L.'s Wonder by Gritters' A Wonder Again and Orange Jumbo by Mouw's Tecumseh Jumbo. Gilts are out of sows by Longfellow, Long Wonder, Miller's Chief Price, Big Orange and Beauty's Jumbo. Write for price, mentioning The Homestead.
THOS. LIEN, ELGIN, IOWA.

Porter's Oakwood Farm
BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address
C. H. PORTER - EAGLE GROVE, IOWA.

Herd Headers
OF early fall farrow from one of the oldest Poland China herds in West. Heavy boned, thrifty and big. As good as I have bred in twenty years. The kind that will cost $100 a little later and be worth the money. A small part of that will buy them now. Also see my ad in Barred Rock department.
F. R. BARRETT - CADAMS, NEB.

EASY FEEDING POLANDS
THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address **E. V. Waugh, Greeley Center, Neb.**

POLAND CHINA BRED SOWS Sows by our 1,000-lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

30 Heavy-Boned, Growthy Poland China Boars
AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 16-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
P. S. & S. BARR, - Davenport, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks
James H. Duncan, Lone Oak Farm, Lineville, Iowa

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners.
G. A. WIEBE - BEATRICE, NEBRASKA.

B. B.'s WONDER FOR SALE
I AM offering my splendid bred boar, B. B.'s Wonder, a grandson of old A Wonder, for sale, and he is a good one. Address
BEN BROUGHTON, Lake View, Iowa.

FOR SALE
A FEW big-type spring gilts, one fall gilt. Will be sold worth the money. All from matured stock. Weight 225 to 300 pounds, fall gilt near 400 pounds. Also 1912 fall pigs. Write for prices and description. Address W. A. Bissonnett, R. 1, Charles City, Iowa.

Poland China Swine
BIG-TYPE Poland China gilts bred for March and April farrow. If you want something with lots of size and bone with quality. Write me your wants Prices right. **H. A. Wohlsdorf, Lawler, Iowa**

ForSale--Big-Type, ProlificBred Gilts
AT from $35 to $40, and aged sows at $50 to $60, and a few choice September 3d fall pigs at $20. All healthy and the kind that sell at sight. Will sell two herd boars after January 1st. Address
J. B. HEISEL - GRINNELL, IOWA.

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address
E. J. AUGSPURGER, - PULASKI, IOWA

BERKSHIRE SWINE.

BERKSHIRES
We are now ready to book orders for Pigs from Spring Farrowings, to be shipped when weaned. 50 spring gilts bred or unbred. 30 spring boars, 5 yearling boars. Be sure and write before buying.
MORGAN FARM BELOIT WIS

BIG-TYPE BERKSHIRES
JUNE and July pigs, both sexes, $15. Earlier boars $17. Yearling farmer boars $20. 30 bred sows and gilts $30 to $60. **WEST WIND FARM.**
M. A. O'BRIEN, R. 2, Reedsville, Wis.

HOLLAND FARM BERKSHIRES
YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. The will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa

TWO GREAT SALES
BIG-TYPE POLAND CHINAS

FLORENCE, NEB., FEB. 12th
D. C. LONERGAN'S SALE

50 HEAD 50

I AM selling eighteen fall gilts, eighteen spring gilts, balance tried sows, the greatest offering I have ever sold. These are sired by **BIG VICTOR, GUY'S PRICE 2D, LAKESIDE WONDER, BIG TOM, I AM BIG TOO, L'S QUALITY** and others. These are bred to **BIG VICTOR, GUY'S PRICE LAST, BIG BOB, KING GIANT** and others. The greatest offering of big-type, quality-kind Poland China sows ever sold in the West. Write for catalog and mention Homestead. Address

H. S. Duncan, auctioneer. **D. C. LONERGAN, Florence, Neb.**

FLORENCE, NEB., FEB. 13th
Kuhl's Closing-Out Sale

50 HEAD 50

INCLUDING all my great herd sows, fall and spring gilts. Also my two great herd boars, **BIG TOM** and L's Quality. Among the great sows will be **Tecumseh Belle.** No better will be sold this year. Also Lady Hadley, the best producing sow I have ever owned, and others too numerous to mention. These are bred to Big Tom, L.'s Quality and Big Omaha. Mention Homestead when writing for catalog. Address

H. S. Duncan, auctioneer. **H. P. KUHL, Florence, Neb.**

Bids sent to M. T. White, Homestead representative, in care of above breeders, will be properly cared for on day of sale.

J. C. THEOBOLD'S GREAT SALE
HIGH-CLASS DUROC BRED SOWS

will be sold at farm one mile southwest

Ohiowa, Neb., Wednesday, Feb. 12th

40 HEAD--EXTRA CHOICE SOWS--40 HEAD

NO reasonable effort has been spared to make this sale offering one of the very best to be sold this season. Some of the very best of the herd, in fact most of the tops will go in this sale. They are mostly the get of King Col., Ohio Belle's Crimson by Crimson Wonder Again and out of Ohio Belle, Valley Chief Col., by Col. Chief, Ohio King Col. by King Col., and a few others. They are mostly bred to Ohio Belle's Crimson and Crimson Chief, one of the best spring boars in the West. Arrange to attend this sale if at all possible. It is the day following the H. H. Shaw sale at Hebron and the day before the H. H. Koenig sale at De Witt. Col. W. J. Thompson, Auct. J. C. Price, field man. Mention The Homestead and write for catalog to

J. C. THEOBOLD, Ohiowa, Nebraska.

KOENIG'S GREAT ANNUAL SALE
DUROC JERSEY BRED SOWS

will be held at the farm of H. H. Koenig one mile of

De Witt, Nebraska, Thursday, Feb. 13

IN THIS sale we will endeavor to excel any previous offering of Duroc Jersey bred sows that we have made heretofore, and they will be of fully as popular blood lines. Advancer Chief by Chief Advancer is the sire of a great many toppy spring gilts. He sired some of the very best of the sale a year ago. A Crimson Wonder by Crimson Wonder has a few daughters in the sale. He is a sire that has produced some of the very best of the breed. These sows by him are right. Belle's Chief, the sire of many prize winners has a few daughters in the sale also. Echo's Chief by Echo Top King is also the sire of a number and they are the big, heavy-boned sort. The offering is bred for the most part to King's Crimson Wonder by I Am A Crimson Wonder 2d, Red Model by Golden Model and a son of H. A.'s Choice Goods. King's Crimson Wonder was the top of Beem's dispersion sale and is sure a great boar. Red Model is a proven sire, and is out of the great sow, Miss Hope. We would like to see you at this sale. Plan to attend. Col. W. J. Thompson, Auct., J. C. Price field man. Mention The Homestead and address for catalog

H. H. KOENIG, De Witt, Neb., or C. H. KOENIG, Plymouth, Neb.

CLOSING-OUT SALE AT SWITZER'S FEED BARN, HAMPTON, IA., FEB. 4, 1913

DISSOLUTION of the Poland China herd of F. P. Menzie—three big-type herd boars, ten mature brood sows and thirty spring gilts. All sows bred for early litters. The boars are Long Columbia (a two year old by Columbia Chief 2d), C Wonder (a grandson of A Wonder) and Mammoth Jumbo 2d (by Mammoth Jumbo and out of Lady Halvor). All are of excellent lines of breeding. Send for catalog. Auctioneers, Cols. A. P. Mason and W. R. Potter. **Anna E. Sharpe, Admx., Hampton, Iowa.**

When Writing to Advertisers Please Mention The Homestead

KREISCHER'S PUBLIC SALE OF BIG-TYPE
POLAND CHINA SOWS

AT SUNNY HILL STOCK FARM 6 miles southwest of Mt. Vernon, on C. & N., and 4 miles north of Solon, on C., R. I. & P. Railway, on

THURSDAY, FEBRUARY 6, 1913

50 HEAD---12 yearling sows, 34 fall gilts, 4 spring gilts. 7 yearling sows, 7 fall gilts, 1 spring gilt by the famous 1,000-lb. Mastodon Chief. 5 yearling sows, 10 fall gilts and 3 spring gilts by the 800-lb. Tecumseh Prince, bred by W. J. Crow; 8 fall gilts by the 900-lb. Chief Jumbo; 2 fall gilts by the 900-lb. Big Bone 2d, and 7 fall gilts by the famous son of Smooth Wonder 2d, Thor. Sows that make up the offering deserve more than passing notice; they have size and quality so strong in demand, for the fall gilts have up to 9 inches of bone. Entire offering is in nice breeding condition, and bred for early litters to 4 of the best big-type boars in corn belt, which are Mastodon Chief, 1,000-lb. boar when in high flesh, stands on 11 inches of bone and has been at the head of my herd 3 years; Big Jumbo 2d, son of famous boar, Big Jumbo, bred and raised by Peter Mouw; weighed over 1,000-lbs. at 30 months old. Nearly all of Mastodon Chief sows are bred to this boar, and their litters will carry a combination of big-type lines that cannot be excelled. Surprise Chief, one of best sons of great boar, Tecumseh Prince, the W. J. Crow boar used for 3 years, out of a dam sired by 1,000-lb. Long Chief; and Mastodon Wonder, son of Mastodon Chief, out of the 900-lb. Smooth Lady, one of the $100 sows in my last winter sale. Don't imagine there are only a few good ones, and that they will sell high, as is often the case, and balance plain, for there is not a cull in the offering. This will be a rare opportunity to buy good ones at your own price. A cordial invitation extended all breeders and farmers and all lovers of the old kind of Poland Chinas with great size and bone to be with us sale day. Sale held under cover. Parties from a distance will find free conveyance to and from farm, from both Mt. Vernon and Solon. Hogs to be shipped will be loaded on cars free of charge at Solon or Mt. Vernon. Send for catalog mentioning The Homestead. Send bids to C. C. Carlin, Homestead representative, in my care.

E. W. KREISCHER, MT. VERNON, IOWA.

Cols. W. H. Cooper, G. H. Burge and Theo. Martin, Auctioneers.

J. D. ISAAC'S BIG-TYPE
DUROC JERSEY SOW SALE

Red Oak, Iowa, Feb. 12, 1913

50 HEAD OF THE GREAT BIG ONES---50

SIRED by **Crack-A-Jack, Jim's Mogul** and **Iowa King.** These are bred to **Jim's Mogul, Valley King 3d** and **Great Crimson.** Write for my catalog and mention Iowa Homestead. Address

J. D. ISAAC, - Red Oak, Iowa.

Adkins, Jones, Nelson and Ashby, auctioneers.

A. D. JONES SALE BIG-TYPE POLAND SOWS

DUNLAP, IOWA, FEBRUARY 10, 1913
73 HEAD OF THE LARGEST SOWS OF THE BREED 73

I AM selling the greatest line of big-type bred sows you ever saw. More of the blood of old Chief Price than will go into a sale this winter. My herd boars are Miller's Tecumseh, J.'s Dry Creek Wonder, Mohawk Chief, Long Choice, Orange Price and Young Miller's Tecumseh. I am selling 16 daughters and granddaughters of old Minnie Fair in my sale. You will certainly want to see my catalog. Write for it at once. Address

A. D. JONES - - - - DUNLAP, IOWA

H. S. Duncan, auctioneer. M. T. White, field man for The Homestead

When Writing to Advertisers Please Mention The Homestead

SHORT-HORN SALE OFFERING EXTRAORDINARY

CHICAGO, ILLINOIS, WEDNESDAY, FEBRUARY 12, 1913

White & Smith Will Sell 50 Head of Outstanding High-class Scotch-bred Show and Breeding Cattle

Sons and Daughters of the Undefeated Grand Champion

RINGMASTER

are Listed as are also Cows Bred to and with Calves at Foot by Ringmaster.

International Grand Champion Short-horn Cow, Roan Queen. Bred to Undefeated Champion, Ringmaster, and included in This Sale.

The Strongest Lot of Cattle to be Presented in any

SALE THIS SEASON

Practically all the Most Popular Scotch Tribes are Represented in the Offering.

ATTEND THIS SALE. The cattle will please you, as they will form the strongest offering of the year. It is the only opportunity to secure at public sale the get of the undefeated grand champion, Ringmaster, a bull with over forty championships to his credit. Send for catalog. Mention The Homestead and address

COLS. BELLOWS, JONES and ROBSON, Auctioneers.

WHITE & SMITH - - - ST. CLOUD, MINNESOTA

ROCK BROOK FARM'S DISSOLUTION SALE OF 125 REGISTERED HOLSTEIN-FRIESIAN CATTLE

AT THE LIVE STOCK SALE PAVILION, UNION STOCK YARDS, **SO. OMAHA, NEBRASKA, TUESDAY AND WEDNESDAY, FEB. 4 AND 5, 1913.**

80 HEAD of registered cattle, consisting of forty cows 3 to 8 years old, milking or soon fresh, and 20 yearling and two-year-old heifers. These females are all bred to sons of either KING SEGIS, KING OF THE PONTIACS or DE KOL 2D'S BUTTER BOY 3D, three of the greatest bulls of the breed. Ten heifers under one year, some of them granddaughters of the above bulls. Ten bulls ready for service and all out of great producing cows. More A. R. O. blood in these bulls than any bulls offered in the West. Forty-five young high-grade Holstein cows and heifers, all milking or soon due to calve by registered bulls. Every animal over six months is tuberculin tested. The results of thirty years of careful breeding are represented in this sale. Catalog ready about January 25th and will be mailed only on application if you mention The Homestead.

HENRY G. GLISSMAN, STATION B, OMAHA, NEBRASKA.

SPIRIT LAKE CHESTER WHITE SALE

Fair Grounds, Spirit Lake, Iowa,

F. W. La DOUX, THURSDAY, FEBRUARY 13th

40 HEAD of choice Chester White sows, including matured sows, fall and spring gilts and a mighty even bunch. One of the banner offerings of this breed for the year. Sires—Joe Cannon by the great Onward, out of dam by Dunbar's Choice, and Gold Coin by Wonder by Nashua Boy, dam Fancy Girl 4th by Prince B., out of Fancy Girl. Service boar in addition to above, Silver Dollar by Ben Royal, dam by the great boar in Mr. Gaffey's herd, Sam B. Few Chester White boars sire the well-shaped pigs with **big bone** and **good feet** that Gold Coin does. A sow bred to him will give vigor and size and strength to the pigs she farrows. This is an extra good Chester White offering. C. C. Evans and Wm. Foshier, auctioneers. G. M. Thompson, Chester White breeder, will represent The Homestead. Address

F. W. La DOUX, - Spirit Lake, Iowa.

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FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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KANSAS CITY, MISSOURI,

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C. C. EVANS,
Auctioneer.
Chester White and Farm Sales a Specialty

I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,

C. C. Evans, North English, Ia.

Col. H. L. Igleheart
Elizabethtown, Kentucky.
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LEON A. SHEPARD, R. 1, MANNING, IOWA.

O. L. MOSSMAN,
Live Stock and Real Estate Auctioneer.
Pure-bred sales a specialty. Write for dates.
Mason City, Iowa

Mousel Bros.' Combination Sale

120 HIGH-CLASS HEREFORDS

To be sold in sale pavilion, GRAND ISLAND, NEBRASKA,

FRIDAY AND SATURDAY, FEB. 14 AND 15,'13

Choice selections from eleven of the choice herds of the country. All cattle are of desirable ages and all in good condition. The contributors realize that buyers wish the good ones and they have determined to make this offering one that will not be excelled for some time.

70 BULLS GO IN THIS SALE

and they number among them some as choice as have ever passed through a sale ring in the West. If in need of a herd header for the best kind of a herd, or a car of range bulls, be on hand.

A Group of Herd Heading Bulls in this Sale

The great shortage of beef cattle is just beginning to be felt, but the real shock is yet to come. Range herds of consequence are not many, and corn-belt pastures are mostly empty or already in crops. All beef cattle are quite certain to appreciate in value, but the greatest opportunity for investment is the pure breds.

THE 50 FEMALES

that will go in this sale will be a chance to buy choice breeding stuff that may not be equaled again soon. Buy these cattle before the great rise in cattle is widespread. Attend this sale. It is an opportunity that the careful business man should not overlook. Be on hand.

The contributors are breeders of high-class cattle, their names should be sufficient guarantee of the value of this offering. They are: Gudgell & Simpson, Independence, Mo.; Hugh Whiteford, Guilford, Mo.; O. E. Green, Genoa, Neb.; Geo. O. Benger, Callaway, Neb.; Mousel Bros., Cambridge, Neb.; E. C. Rodwell, Cambridge, Neb.; A. C. Smith, Lexington, Neb.; Fred Mues, Edison, Neb.; G. E. Stryker, Rising City, Neb.; Dauchey Bros., Stockdale, Neb., and Thompson Bros., West Point, Neb. Send for the catalog of this big sale at once. Mention The Homestead when you write. Address

MOUSEL BROTHERS, CAMBRIDGE, NEBRASKA

COLS. BRANSON AND SNELL, AUCTIONEERS

C. W. HUMERICK'S GREAT

POLAND CHINA SOW SALE

Atlantic, Iowa, Feb. 15

50 HEAD 20 TRIED SOWS 4 Fall Sows, 26 Gilts

THE cream of my herd goes into this sale. Daughters of **New Tecumseh, Big Jericho, Iowa Model, Smooth Wonder 2d, King Wonder, Victor Hadley, Big Buddy** and other well-known boars. These are bred to New Tecumseh, Big Tom Jr. and a grandson of old A Wonder. Get my catalog and see the great line-up I am selling. Address

C. W. HUMERICK, ATLANTIC, IOWA

Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead. Mention The Iowa Homestead when writing for catalog.

FRED NELSON'S SALE

DUROC JERSEY BRED SOWS

LINDSEY, NEBRASKA,

TUES., FEBRUARY 11, 1913

The Home of **VALLEY KING** Grand Champion Boar at Iowa and Nebraska State Fairs, 1911.

40 HEAD 40

25 YEARLING and MATURED SOWS. 15 CHOICE GILTS. Most of which are bred to my Iowa and Nebraska champion boar, **VALLEY KING.** I am selling daughters of the champion boar, Belle's Crimson Wonder, Red Chief Wonder, Medoc Over, Crimson Jack, Pride's Crimson Wonder and others. Write for catalog and mention The Homestead. Address

FRED NELSON, LINDSEY, NEBRASKA.

Col. T. C. Callahan, auctioneer.

M. T. White, field man for The Homestead.

BIG-TYPE POLAND SOWS

L. B. WILLIAMS & SONS' SALE

40 Head---6 Tried Sows, 4 Fall Sows, 30 Gilts---40

VILLISCA, IOWA, FEBRUARY 13, 1913

IF YOU are looking for the "box-car" big type, the kind that will take the fewer number to fill your car when going to market, then come to our sale. We are selling 6 of our best tried sows, 4 fall sows and 30 choice gilts. These are sired by **Surprise All, Victor Hadley, Black Price, W.'s Quality** and **Orphan Wonder.** Write for our catalog if you want the strictly large kind. Address

L. B. WILLIAMS & SONS, Villisca, Iowa.

J. West Jones, auctioneer. Mention The Homestead when writing for catalog.

WALTEMEYER'S DUROC JERSEY SALE

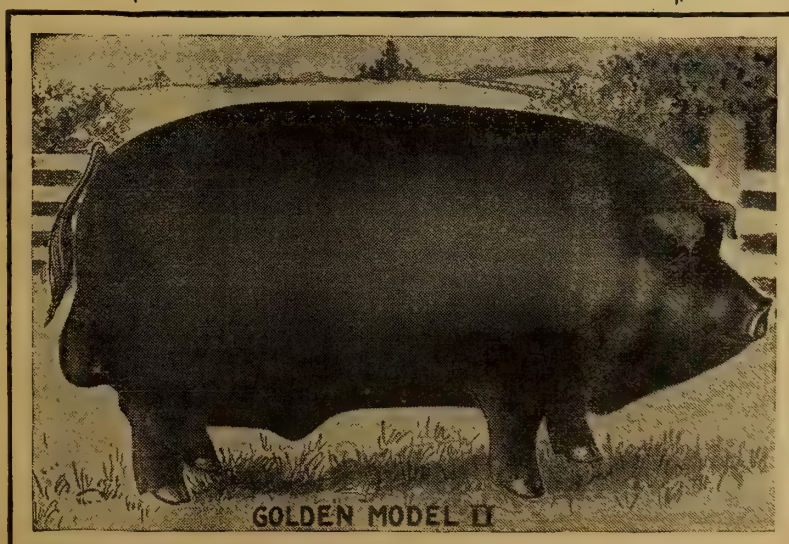
OUR offering consists of fifty sows, the equal of which, from a standpoint of show records, breeding and individuality, have seldom been exposed at public auction. Our 1912 herd of show sows will sell. Among them is Ohio Queen Again, the second-prize junior yearling at Des Moines and Huron, first at Hamline and first and grand champion at Sioux City. She is sired by Golden Model 2d, dam Ohio Queen by Ohio Chief. She is bred to Chief Select (Wm. Reed's herd boar) for a March litter. This sow is one of the best to be sold this year. The first-prize gilt at Des Moines also sells. She is by Golden Model 2d and is bred to Chief Select for a March 10th litter. Fancy Wonder 3d, grand champion sow at Hamline and Huron and first at Sioux City, is bred to High Model. An under-a-year sow that won second at Des Moines, Huron and Sioux City and third at Hamline and her litter sister that won fourth at Sioux City and third at Des Moines, are both daughters of Golden Model 2d and out of a Protection Colonel sow. They are bred to the grand young boar, Sensation Wonder. The under-a-year sow that won first at Huron and Sioux City and second at Hamline, is a daughter of Model Chief's Last and is bred to Golden Model 31st. The second and third prize gilts at Des Moines are bred to Golden Model 2d and the fourth-prize gilt is bred to Golden Model 31st. Model Girl 5th by Protection Colonel is the dam of High Chief (first-prize junior yearling boar at Des Moines in 1912), will sell bred to High Model. The balance of the offering is made up as follows: Five gilts by Chief Select, one by Advancer, three by Dusty Critic, four by W. B.'s Model Chief, one by Proud Colonel and two by Model Chief 2d, that are litter sisters to the pig that won fourth at Des Moines, first at Hamline and Huron. All of the above sows are bred to Golden Model 2d. There will be fifteen fall and spring gilts by Golden Model 2d bred to Sensation Wonder. The sows we are selling have been getting the same care as the sows we are keeping in the herd. They have plenty of exercise and have been fed in such a manner as to insure large, strong, healthy litters. There will be no doubt as to any of the sows being in pig, as every one will be showing up by sale day. Catalogs now ready. When writing mention The Homestead.

TO BE HELD AT MELBOURNE, IOWA TUESDAY FEB. 11

BRED SOWS

GUARANTEE

Every sow guaranteed to be safe in pig to date given sale day or your money refunded.



GOLDEN MODEL II

REGARDING the herd boars we are using, we feel they are too well known to old breeders to need any introduction, but for the benefit of new breeders we will give, in brief, their records. During the past four years at the Iowa, Nebraska, Minnesota, South Dakota State Fairs and at Sioux City, our herd has won 270 ribbons, consisting of 24 champion and grand championships, 117 firsts, 68 seconds, 38 thirds, 24 fourths and other minor ribbons. Nearly 90 per cent of these winnings have been made on the produce of **GOLDEN MODEL 2D** and his daughters. Golden Model 2d was second in class at the Iowa State Fair and first at the Nebraska State Fair in 1909 and had many friends for higher honors at those shows. No boar of the breed has sired as many prize winners as has he during the past four years. He is generally recognized as one of the greatest, if not the greatest, sires of the present day. Buying a sow bred to him is no experiment. There will be about twenty bred to him in the sale. His son, **HIGH MODEL,** was the grand champion of Iowa in 1912 and has proven a sire of merit. His dam was by Ohio Chief and we have confidence in his future. We have had many opportunities to sell him, but will keep him in the herd. Eight sows are bred to him. Golden Model 31st is another son of Golden Model 2d that was good enough to win first in the junior yearling class and grand championship at Sioux City, 1912. We have some of his sons and daughters that we will show next year and they look so good to us that there is no price mark on Golden Model 31st. There will be eight sows in the sale bred to him. Sensation Wonder is the boar we bought of Mr. Stewart to use on our Golden Model 2d sows. He is sired by I Am Perfection Wonder, he by Crimson Wonder Again and out of H. A.'s Queen. He was the third-prize under-year boar at the Iowa State Fair in 1912 and we think him the equal of any boar we ever owned. All of the sows and gilts sired by Golden Model 2d are bred to him. We doubt if four better boars can be found in one herd today. Each year after the fairs are over we find that nearly all of our winners are sired by Golden Model 2d.

Auctioneers—Cols. Kraschel and Allen. Carlos C. Palmer, field man for The Homestead.

WALTEMEYER BROTHERS : MELBOURNE, IOWA

H. S. ALLEN'S GREAT SALE

CRIMSON WONDER AGAIN

BRED SOWS

CHARITON, IOWA, WEDNESDAY, FEB. 5

42 HEAD. 12 TRIED SOWS, 10 FALL YEARLINGS, 20 GILTS. 42

Crimson Wonder Again, Grand Champion Boar at Iowa State Fair, and the Sire of Over a Hundred Prize Winners.

I AM selling 12 sows bred to my celebrated champion boar, **Crimson Wonder Again,** and there will also be 8 of his daughters in the sale. There will be more of the blood of Ohio Chief and Crimson Wonder Again in my sale than has ever before been listed in one offering. There will be 20 granddaughters and greatgranddaughters of old Ohio Chief in my sale. It is a great offering, in fact, one of the best I have ever made. Catalog now ready. Write for it at once and mention The Homestead. Address

H. S. ALLEN, RUSSELL, IOWA

Col. N. G. Kraschel, auct. M. T. White, field man for The Homestead.

---

30 Sows in our Sale Bred to our Nebraska and Kansas State Fair Champion and Grand Champion Boar, Critic B

R. WIDLE & SON'S SALE

DUROC JERSEY BRED SOWS

GENOA, NEBRASKA, MONDAY, FEB. 10th

55 Head, Including all my Noted Show Sows--55

35 Sows In Sale Bred to Our Grand Champion Boar, Crit'c B

WE are selling three of our best show sows, including our 1st-prize junior yearling sow at Kansas State Fair. These are all sired by the great boar **Uneeda Crimson Wonder.** There will be 10 daughters of **Uneeda Crimson Wonder** in the sale, 14 daughters of **Crimson Wonder 4th.** 1st-prize Jr. yearling at Lincoln. Also daughters of the champion boars, **Belle's Crimson Wonder** and **Freed's Col.** Also daughters of **Prince of Cols., Wallace Wonder, Lincoln Chief, Allen's Wonder Again, B. & L.'s Wonder, Red Chief Wonder** and other noted show and breeding sows.

R. WIDLE & SON, Genoa, Nebraska.

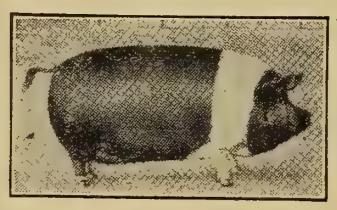
Callahan and Putnam, auctioneers. M. T. White, field man for The Iowa Homestead.

Please mention The Iowa Homestead when writing for catalog.

IMPORTANT

HAMPSHIRE SALE

TO BE HELD IN THE TOWN OF



WASHINGTON, IOWA Wednesday Feb. 5

50 HEAD of excellent Hampshire bred sows, among them a number of International Stock Show and Iowa State Fair prize winners. Thirty-two of the sows are tried brood sows from the most fashionable strains of blood, being sired by General Allen 1061, Gold Gem 647, Queen's Choice D. 5015, Missouri Boy 1505 and other noted boars. With one exception these sows are in pig from the first service which shows the useful character of the offering. My sows are all bred to **JOE 7743,** the first-prize junior yearling at the International Stock Show, 1912, and was only defeated by the grand champion boar of the show. **Joe** is sired by Nissen's General Allen, the second-prize aged boar at the same show, and he also sold for $500 at public auction last year. Joe will make a great sire and you should get a sow bred to him if you want to breed Hampshires. J. E. Wright is consigning some good sows and gilts and they are bred to Silver Tip Lad 13085, a son of Silvia 16316, champion under-year sow of 1911. Two of her gilts also go in the sale. Every animal in the sale is bred for March farrow and are an excellent lot of individuals. Write me for catalog mentioning The Homestead. Fred Reppert, auctioneer.

C. A. BROOK, - Washington, Iowa.

SWAN & ELLIS' GREAT SALE

DUROC JERSEY BRED SOWS

INDIANOLA, IOWA, SATURDAY, FEB. 8TH

40 HEAD. 20 TRIED SOWS, 20 GILTS. 40

30 SOWS
bred to our great boar
I AM A CRIMSON WONDER II.
one of the most noted show and breeding boars now living and the sire of some of the best herd boars now at the head of well-known herds

WE have selected 30 of our very best sows and have bred them to our noted boar **I Am A Crimson Wonder II.** Among these are 4 daughters of that old grand champion boar **Crimson Wonder Again;** 2 extra choice gilts by **Col. Gano;** 2 corking good gilts by **Muncie Prince;** others by **Valley Chief, L. E.'s Col., Wonder Chief, Ohio Col., Chief's Protection, Col. Chief** and the champion boars **Freed's Col.** and **Superba.** The sale will be held in town with the best of railroad connections. Catalog ready. Write for it and mention The Iowa Homestead. Address

SWAN & ELLIS, INDIANOLA, IOWA

Kraschel, Allen, Putman, Aucts. M. T. White, field man for Homestead.

J. M. GLASIER'S POLAND CHINA SALE

KOSSUTH COUNTY FAIR GROUNDS WEDNESDAY FEBRUARY 5, 1913

Forty head, including eleven tried sows, twelve fall yearlings and seventeen spring gilts. Sows bred for March and April farrow. Sires: Big Kossuth by A Wonder (Ellerbroek's), dam Mollie B by Chief Leader; Up To Date Jr. by Up To Date, dam Our King. Service boars: Count Halvor Jr. by Count Halvor 2d by Big Halvor, dam Mouw's best breeding, and Valley Longfellow by Chief Longfellow, dam Valley Wonder by Blue Valley Boy.

W. T. Stratton, L. W. Larson, Aucts.

J. M. GLASIER, ALGONA, IOWA

C. C. Carlin, field man.

Big, Smooth, Well Bred

Selections Made From Best Herds

Quality Right Your Own Prices

NORTHERN IOWA CIRCUIT DUROC JERSEY SALES

A COMPACT CIRCUIT OF SALES, EASY TO ATTEND ALL AND A GREAT CHANCE TO BUY SOME GOOD SOWS

F. H. DICKEY **H. S. FAIN**

60 HEAD, including eight tried sows, seven fall gilts and forty-five spring gilts, the choice of the two herds. Only the tops of the herds will be offered and from the blood lines represented, it will be seen that both consignments are of the best. The herd boars in each herd are characterized by great bone and stretch, as shown in their offspring. The sires of the offering are: Col.'s King by King of Cols.; Royal Col. by the champion, Freed's Col., dam by Manley Orion; Fain's Select by Chief Select,

TUESDAY, FEBRUARY 4, 1913

and Fain's Col. by Gold Col. There are sows in this sale by other sires and other boars, but these are the principal ones of the two herds. Service boars: Mo. Model Top Jr., a great young boar by Mo. Model Top, D.'s Crimson Critic, D.'s Crimson Wonder by Crimson Wonder I Am, Fain's Select, and others of the herd boars already given. As individuals these boars are good, and are the growthy, vigorous sort that is so often chosen for the practical purposes of the farm and breeding pens.

In F. H. Dickey's Sale Pavilion

EMMETSBURG, IOWA

SPIRIT LAKE, IA.

WEDNESDAY, FEB. 5, 1913

40 head of the choicest that I ever raised, consisting of 18 tried sows and 22 of the best kind of gilts. 22 of the 40 are by my herd boar, Evergreen Prince, which was 3rd at Sioux City last fall, and after going through the breeding season is in much better shape than he was at the fair. I will sell 6 sows that are safe in pig to him. He is by High Col., by Prince of Cols., dam Dallas Queen by Model Prince, the best producing brood sow that I ever hope to own. Ten of the spring gilts are by King's Defender, by the twice champion Defender. The entire offering is in excellent condition, and the sows will all be safe in pig to the old boar, and to G.'s Crimson Wonder by Crimson Wonder I Am, and Lynn's Golden Model by Golden Model 31st by Golden Model 2d, two good sons of these great sires. The sows are stretchy and big and good on their feet. Sale at the farm, 5 miles northeast of Spirit Lake and will be held in HEATED PAVILION

GRANT LYNN.

SPIRIT LAKE, IOWA.

LAKE PARK, IA.

THURSDAY, FEB. 6, 1913

42 head of sows that are bred for early farrow to boars that have size and are bred along popular lines. This sale will be largely a tried sow offering, for there are included 24 tried sows and only 18 spring gilts. The entire herd is strong in Colonel blood as nearly all the sows have large proportions of that strain. The old herd boar, Okoboji Col. traces on his sire's side to both King of Cols. and Advance; his dam was by Inventor, out of a Proud Advance sow. He met some stiff competition at the 1912 Dickinson County Fair, but managed to win over it. He has considerable size, and is a strong vigorous boar. The two young herd boars, litter brothers, used for service this season, show popular blood lines, being by Crimson Wonder Again and out of a sow by W. J. C.'s Prince of Cols. This is a sale where you will find bargains in both quality and blood lines. It will be held at the farm 3 miles southwest of Lake Park. Send for catalogs.

S. L. WEAVER,

LAKE PARK, IOWA.

J. SCHMIDT, EVERLY, IOWA

40 HEAD, the pick from over 225 head that I raised on my farm last spring. There will be about a dozen tried sows, the rest gilts. I have not put in a large number, because this is my first sale and I want to sell only the very best, so those who may buy at this sale will get something which will make them want to buy more from me next year. Breeders who want to make their selections from a herd that has actually been a producing one in one of the most severe seasons for farrowing that we have known, can get what they are looking for here. The

FRIDAY, FEBRUARY 7, 1913

offering is practically all sired by Col. Tientsin, and Royal Muncie. Col. Tientsin is by a son of Carl's Col., out of a sow by Tientsin II. and Royal Muncie is by Muncie Chief, dam by American Royal. A large part of the sows cataloged are bred to a big young boar, Col.'s Model by Col. Grant, and out of a great producing brood sow, Dallas Queen by Model Prince. A practical offering from a practical herd. Address for catalogs as above. Sale on farm, six miles from town, in heated pavilion.

SALE IN COMFORTABLE PAVILION

WE heartily commend the sows advertised above to breeders who may need more females this year, for in this circuit are individuals of meritorious breeding, all with good guarantees by men who are in the habit of standing by their word. By following this compact circuit you will be able to replenish your herds with good blood and a good type of individuals without requiring you to make selections from a few in any single sale you might otherwise attend. The almost certain advance in prices of even common brood sows this year will make it more desirable than ever to look over the pure-bred sales this winter with a view of making a start in a better grade of hogs. The scarcity of good breeding stock, with the cheap corn, means a great demand for hogs on the farm, and the time was never more favorable for a man to make a start in this direction. Cols. O. L. and A. L. Mossman will be the auctioneers. Ray L. Gribben of The Homestead will attend these sales and will handle bids you may send him strictly in your interest.

R. M. SKILLEN'S SECOND SALE OF DUROC JERSEY BRED SOWS

TO BE HELD AT FARM

Greene, Iowa, Monday, Feb. 10, 1913

40 HEAD of big, smooth two year olds, yearlings and gilts. There will be a good two-year-old sow by Kelly's Pilot Wonder (champion of Ohio, 1908), three by Waveland Ohio Chief, eleven fall yearling sows by Chuck's Model (a great son of Model Chief) and twenty-five gilts by Select Goods by Chief Select, Merfield's Wonder by Crimson Wonder Again, Waveland Ohio Chief by Ohio Chief and Chuck's Model. Their dams are by Kelly's Pilot Wonder, Waveland Ohio Chief and Adams Express. These sows are bred to Chuck's Model, Skillen's Col. Gano (a full brother to the noted sire and show boar, Col. Gano), Prince of Wonder by Crimson Wonder Again and a few to Advancer Chief by Model Advance. Write me for a catalog, mentioning The Homestead, and arrange to attend the sale. Send bids to Carlos C. Palmer, Homestead representative, in my care. N. G. Kraschel, auctioneer. Address

R. M. SKILLEN, - - GREENE, IOWA.

C. E. VEAK'S GREAT SALE

DUROC JERSEY SOWS

ESSEX, IOWA, FEBRUARY 4, 1913

40 HEAD. 25 TRIED SOWS, 15 CHOICE GILTS. 40

These are daughters of such noted boars as my great High Col., Select Chief, Cherry Prince, Proud Col. and Valley Chief 2d. These will be bred to my present great trio of boars, High Col. 2d, Cherry Prince and Crimson The Wonder. If you want a few really great sows, bred to some of the best herd boars today in the West, then come to my sale. Catalog now ready. Write for it at once and mention The Homestead. Address

C. E. VEAK - - - ESSEX, IOWA

Kraschel and Reppert, Auct.

M. T. White, field man for The Homestead.

DROZ, HANKS & BISHOP DUROC BRED SOW SALE

TO BE HELD AT GILBERT'S FEED BARN,

FAIRFIELD, IOWA, THURSDAY, FEB. 6, 1913

55--HEAD--55

I WILL sell thirty head of great sows, eight yearlings by The Professor, Golden Model II., Jack's Friend, Proud Col., Chief Protection, Col.'s Defender and Chief Select; nine fall yearling gilts by Proud Col. and thirteen gilts by Crimson Wonder I Am, Proud Col., Model Wonder and Advancer. All but one are bred to **Cherry Chief**, the sire of Cherry King, **Chief Select, The Chief's Col.** and many others. If you want to raise you a herd boar buy a sow bred to Cherry Chief.

J. C. DROZ, - FAIRFIELD, IOWA.

WE are selling twenty-five head, mostly gilts, one Model Chief sow, one fall sow by Instructor (grand champion Illinois, 1910), four gilts by Proud Col., four by Model Wonder (and one of them a corker), four by Proud Ohio Chief, one by Highland King (junior champion International Stock Show, 1910), and ten by Col. O. by Proud Col., dam by Ohio Chief II., ten are bred to Model Wonder, nine to Wonder Model (second Des Moines, 1912), and six to Proud Col. Our state fair winners are bred like these litters will be. Buy some of these sows and raise some prize winners yourself.

HANKS & BISHOP, - NEW LONDON, IOWA.

Write to either for catalog mentioning The Homestead. Send bids to Carlos C. Palmer, care Leggett Hotel, and they will be properly cared for. Auctioneers, Cols. N. G. Kraschel and H. S. Allen.

CHESTER WHITE SWINE.

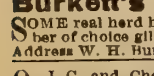
AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

ALDEN ANDERSON, ELLSWORTH, IOWA

Anderson's Chester Whites

70 1912 fall pigs, weight 75 to 100 pounds, If you want size, length, and bone with plenty of quality I have them. They are good enough to ship C. O. D. anywhere. Buy a few of these gilts or a boar now. They are priced to sell. Pedigree furnished. Address **ED ANDERSON, R. 2, ALTA, IOWA.**



SWEEPSTAKE 28006 WEIGHS 1260, IST AND CHAMPION

Boar at Iowa, 1912, heads our herd of Chester Whites. **We ship c. o. d, and pay all express charges.** Choice growthy bred gilts. Catalog free. We also offer for sale Recorded Shire Fillies, and Mares in foal. Write

B. M. BOYER & SONS - - - FARMINGTON, IOWA

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I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.

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6 YEARLING sows and 30 spring gilts bred for late March and April farrow to 4 high-class mature herd boars. Strong bone, good size and in moderate breeding condition. Address

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40 head of pure-bred males for sale. Sired by Jumbo Chief and Captain C. I have good length, heavy bone, well-proportioned individuals. Satisfaction guaranteed. Shipped on approval. Address Frank A. Gould, 1¾ miles N. of Rockwell City, Ia.

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LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address

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I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address

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WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rouen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

BOARS ALL SOLD

GOOD lengthy gilts, weighing 400 pounds, safe in pig. Price $30 each. Sire, Michigan Chief, an 800-pound boar at two years old. Address

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30 CHESTER WHITE

SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

Chester White Sows

25 bred sows and gilts for sale. Some are show sows and all are as good as can be found. Some gilts weigh over 200 pounds. Bred to an 800-pound show hog. **Earl Bloom, Bridgewater, Iowa.**

Burkett's Chester Whites

SOME real herd heading young boars. Also a number of choice gilts, for sale at reasonable prices. Address W. H. Burkett, Beaver Crossing, Neb.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.

S. J. PHILSON, - Harlan, Iowa.

Chesters and Short-horns

I HAVE a number of males and gilts, of the very best breeding, none better. They are large and growthy and in fine shape for service. I also have one yearling past and two spring bulls that are hard to beat in the Short-horn blood. S. M. Thompson, Birmingham, Ia.

I SHIP C. O. D.

CHOICE registered Chester White swine. Both sexes, not akin. Farmers' prices. Pedigrees free

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CHESTER WHITE GILTS

CHOICE heavy-boned bred to Lewis B. No. 22617 for March and April farrow. Get my price. Address **JOE EGELHOF, CUBA CITY, WIS.**

CHESTER WHITE BOARS

OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address

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Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

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Duroc Jersey Bred Sows

STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic.

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DE YOUNG'S DUROCS

A FEW good gilts and bred sows to sell. Best lines of breeding, King of Col.'s Again, Phallas Col. and Crimson Sol.. sires of majority. Bred to Crimson Climax boar and others of similar good breeding.

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GROWTHY brood sow prospects by C. Indicator and Long Hero, bred to Grand King by Crimson Climax, and above boars are individuals on which they could be used. Stretch, bone and size specialties.

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At $10 and $15 You can have the pick of our bunch of fall Duroc Jersey pigs, and we also have a number of choice sows for sale. Also some late gilts that will sell at small advance over market. Breeding first class, hogs healthy and all right. Bargains, address today A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

CLOSING-OUT SALE FEB. 18th—60 Duroc Jersey gilts, 50 Bates Short-horn females, 5 bulls. Gilts by Prince of Cols., Ruberta Crimson and Wonder Col., bred to Col. Tientsin and Chief Muncie. Address **THOS. BROOKS, Belmond, Iowa.**

DUROC Leading Bred gilts and yearlings. Good ones. Also September pigs. Blood lines represented. Address **Frank Kenn, Mt. Pleasant, Ia.**

DUROCS

Can spare a few choice sows bred for April farrow. Address

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FALL PIGS AND BRED SOWS Will be offered for next few weeks at from $10 to $40. White Rock cockerels and W. Holland toms. Address **EARL ROBERTS, Ulysses, Neb.**

20 **GILTS and SOWS** bred for March and April farrow. Good length and bone. Moderate prices to move them soon. S. J. Butts, Mason City, Iowa.

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E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.

E. S. MAYES, JR., SPRINGFIELD, KENTUCKY.

HARDING'S DUROC JERSEY BOARS

I HAVE 30 choice boars for sale. I have a yearling by the champion **Freed's Col.**, out of a daughter of the grand champion sow, 1911. Will recommend him as a good breeder. Two good fall boars, and I will sell Crimson Critic: 25 other choice boars. Write me at once.

R. J. HARDING, - - - - - MACEDONIA, IOWA.

J. W. STORM BUYS VOLUNTEER AT $1,500.00

HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. Will hold **BRED SOW SALE JANUARY 25, 1913.** 25 sows will be offered bred to Volunteer. For particulars address, mentioning The Homestead,

J. W. STORM, SEVILLE, OHIO

CHERRY LAWN DUROC JERSEY BRED SOWS

WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individually. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first class. Address

ROBT. PRITCHARD, - - - - CARROLL, NEB.

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mound's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

Cramer's Grand View Durocs

WE have several choice gilts bred for early farrow that are bred right and must make good. Priced right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address **M. C. CRAMER & SON, Monroe, Iowa.**

LARGE DUROC JERSEY BRED GILTS

I HAVE 25 March, April and May gilts by Daisy's Chief out of dams by Col. Advance, Model Advancer Chief's Col. and others, bred to Model Select by Chief Select Jr. Gilts weigh 250 to 300 lbs. Prices right.

J. H. MORE - - - - - FAYETTE, IOWA

A. S. ALEXANDER, V. S.,

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Veterinary Editor The Homestead.

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Snethen's Durocs

FALL GILTS by Belle's Choice Goods and bred to a son of Crimson Wonder Again and Golden Model 51st. All are best of breeding and priced right. Address **J. S. SNETHEN, Davis City, Iowa.**

30 DUROC BRED GILTS

I HAVE 30 large spring gilts weighing 250 to 300 pounds, of Chief's Col. breeding and bred to a son of S. E.'s Premier Col., that I will sell worth the money. If you want good ones write me. Address **CHAS. A. MOULTON, Morrison, Illinois.**

BRED SOWS AND GILTS

A GOOD lot of Duroc Jersey gilts, large, lengthy, with good color and plenty of bone, bred to farrow in March; sired by Choice Goods, High Col. and Model Chief; bred to R. J.'s Chief, Harding's Model 5th and King Gano. J. C. Porter, Ogden, Iowa.

WE HAVE A DRAFT of bred gilts that are bred for M'ch and April farrow good enough for a breeder and cheap enough for the farmer. Bred from leading families, mated to best male we have ever owned. Col.-bred hog. For particulars and prices write, phone or come see them. Farm near town. J. W. Troy & Bros., Rose Hill, Ia.

DUROC BRED GILTS

I AM making special prices on 20 March and April gilts bred to farrow in March and April. These gilts are bred to Chief Col. and Prize Wonder. If you want some bred gilts write me at once as they will not last long at the price. Frank N. Crow, Oxford, Ia

DUROC JERSEY BRED GILTS FOR SALE

BRED for early farrow, ready to ship. If you want bone and size and color we have them. We also have 100 bushels choice Reed's Yellow Dent seed corn. Write or come and see us. Address

D. NAUMAN - WEST LIBERTY, IOWA

AVERYDALE BOARS and bred sows. Also Silver King corn. A. M. Avery, Mason City, Iowa.

MENAUGH BROS.

GARDNER, ILLINOIS,

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SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write

MENAUGH BROS., Gardner, Ill.

FOR SALE

SPRING boars by Volunteer, A's Defender, Superba, Chief's Col., Defender, and Pal's Col. Dams by Chief's Col., Defender, Ohio Chief, Proud Advance, Crimson Wonder III., Educator, Tippy Col., Fancy Col., and The Helen Blazes, Willettas, Lucy Wonders and Sunbeams. Show boars a matter of special correspondence.

H. E. BROWNING - Hersman, Illinois.

FOR SALE Open gilts by Crimson Col., one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address

C. B. REAM - Route No. 6, Lima, Ohio.

Duroc Jersey Bred Gilts

20 March and April gilts sired by Wonder's Model (2d Iowa 1912) and bred to Colonel J 98573, a great son of Proud Col. dam by Model Wonder. Gilts weigh 200 to 225 pounds. Price low. Address

JOHN KREBS - RIVERSIDE, IOWA.

OAKVIEW DUROCS. Bred gilts and sows, March and April farrow. Prices right. For 30 days only, fall pigs, either sex, $12.50 to $15 each. Write us mention Homestead. A. Nevins & Son, Modesto, Ill.

YORKSHIRE SWINE.

LARGE YORKSHIRES

30 HEAD of pigs of 1912 farrow, all ages, either sex, not akin, $8 up. Service boars, Sows and gilts, bred or open. W. C. Cook, R. 42, Ada, Mich

HAMPSHIRE SWINE.

VALLEY VIEW HAMPSHIRES. Breeding stock, either sex, any age, quality unexcelled, satisfaction guaranteed. Fred Wheeler, St. Charles, Ia.

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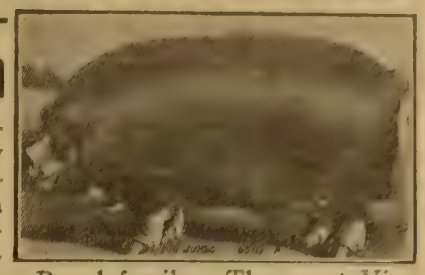
LAWNDALE SHORT-HORN AND POLAND CHINA SALE

TO BE HELD AT LAWNDALE FARM

Bellevue, Iowa, Thursday, Feb. 13th



24 SHORT-HORNS, consisting of nine bulls and fifteen females. Among the bulls are some herd headers, particularly a June Rosebud calf by Monarch Viceroy, a November yearling Rosebud by Archer Boy, a November yearling Victoria, a Rose of Autumn and a Fashion, all by Monarch Viceroy, Monarch Viceroy also sells and he has been a consistent winner at the Iowa State Fair for the past three years. He is by Orange Monarch and of the Princess Royal family. The great Victoria show cow, Victoria Pride, sells, as does the great two-year-old show heifer, Sweet Fashion. The females are of the Victoria, Strathallan, Rosebud, Butterfly, Duchess of Gloster, Fashion and Rose of Sharon families. If you want a herd bull or a grand young cow, attend the sale.

30 BIG-TYPE Poland China bred sows will sell. They are by Big Bone, Big Bone Expansion, Peerless Monarch by Big Bone, Columbia Dude, and are bred to Big Jumbo and Dude's Masterpiece by Columbia Dude. These sows are big, smooth, heavy boned and have quality. Their breeding is of the best. Write me for catalog mentioning The Homestead. Auctioneers, Colonels Bellows, Cooper, Burge, Mullaney.

THEO. MARTIN, BELLEVUE, IOWA

STEVENS' DUROC JERSEY SALE

TO BE HELD IN TOWN AT

RIPPEY, IOWA, THURSDAY, FEB. 6th

ON the above date I will sell a fine lot of Duroc Jersey sows. Among these are Lucy Perfection (a half sister to Big Wonder), Lady Advance (by Proud Advance), eight gilts by Col. Cano and other gilts by Col. Chief, Liberty Chief, White's Proud Advance, Choice Goods, etc. There will be as a special attraction a sow by Liberty Chief and out of O. R.'s fine sow, the sow that topped the Stevens sale last winter and later sold at the Tupper sale for $280. These sows will have been bred to Big Wonder or Cedar Hill Chief. Write for catalog giving full details.

O. R. STEVENS, RIPPEY, IOWA.

DAVIS' HAMPSHIRE SALE

150 Bred Sows and 40 Boars at St. Joseph Stock Yards Sale Pavilion. Tuesday, February 18, 1913. Sale starts 10:00 a. m. sharp. This is the greatest herd of Hampshire hogs in existence. Write for catalog, mentioning The Iowa Homestead.

W. F. DAVIS - - SO. ST. JOSEPH, MO.

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped out. Can ship by Adams or U. S. Express. Write today.

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HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address

HUGHES ATKINSON, - - - MT. STERLING, KENTUCKY.

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 378 head on hand; 164 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today.

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

BRED SOWS FOR SALE

FOR March and April farrow. They are bred to Look Out, an outstanding boar, also Rival Chief and P. M. Maloy. This breeding should make a good cross. Prices reasonable. Write

GEO. LIPPERT - - - - MAGNOLIA, ILLINOIS

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address

H. D. DE KALB, - - - - - Dekalb, Iowa.

SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.

C. A. BROOK, - - - - - WASHINGTON, IOWA.

WE ARE offering ten yearling sows bred to Capt. Porter, a mammoth boar, for March farrow. Eight gilts bred to the Kentucky-bred boar, Rival Lad, for April farrow. These hogs are of the best breeding and are priced very reasonable. Write us for description and prices.

WOOD & WESCOTT, SHEFFIELD, ILLINOIS

GOODENOUGH'S HAMPSHIRES

BOARS all sold but two extra good yearlings. I will hold a public sale of bred sows and gilts on January 27, 1913. Write me, mentioning The Homestead.

A. L. GOODENOUGH - Morrison, Illinois

IMMUNIZED HAMPSHIRES

OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address

J. CROUCH & SON, La Fayette, Indiana.

ABERDEEN ANGUS CATTLE.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty 50 coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sale at all times. Write us and come and see our herd. Address

ESCHER & RYAN, BOTNA, IOWA. - CHAS. ESCHER & SONS, BOTNA, IOWA.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kuzimure 2d 134656 and Elever 134652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three year old. Write me, mentioning The Homestead,

JOHN E. GRIFFITH, WASHINGTON, IOWA.

AMSBERRY'S ANGUS

TWENTY extra choice young cows and heifers, also a few young bulls and one aged Blackbird bull for sale. Popular breeding and attractive prices.

J. A. Amsberry & Son, Mason City, Neb.

I AM OFFERING for sale at private treaty 14 Angus bulls from 8 to 16 months of age. Nearly all of them are sired by Blackbird Jack 129823, one of the good sons of Black Woodlawn, and all of them bulls of quality and breeding. There are 3 Blackbirds, 2 Trojan Ericas, 3 Queen Mothers and 1 Pride in the lot. A.G. Messer, Grundy Center, Ia.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address

R. WILKINSON & SONS, Mitchellville, Ia.

Pleasant Hill Herd Aberdeen Angus

TO close out have for sale 8 cows, 2 two-year-old heifers, 7 calves, Also herd bull, Benton N. 134802, 3-year-old, was champion as a yearling at the N. Iowa fair. - Address, mentioning The Homestead,

J. Niesen, Meservey, Cerro Gordo Co., Ia.

SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address

GEORGE D. HARRAH, Newton, Iowa.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds, and a choice lot. Farmers' prices; singly or carload. Mention paper.

R. J. COX, GRINNELL, IOWA.

THE FARMERS' SHORT-HORNS

MILKING SHORT-HORNS. Cows that have made a pound of butter a day under official tests. Bulls which carry strong milking strains and are good Short-horn types. Have extra good young stock from these animals for sale. Address

J. C. CHARLSON, - Leland, Iowa.

15 SHORT-HORN BULLS

ALL blocky Blood Reds, 10 to 14 months old. Address J. E. BARR, R. F. D. 4, Davenport, Iowa, successor to I. Barr & Son.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

G. H. BURGE, - Mt. Vernon, Iowa.

Short-Horn Bulls for Sale

I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address

PERRY O. BROWN, Lamoni, Iowa

EGGER'S SHORT-HORNS

THE real beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and Address J. F. EGGER & SON, ROCA, NEB.

7 GOOD YEARLING SCOTCH AND Scotch-Topped Short-Horn Bulls

FOR SALE at the Pike Timber Stock Farm. Address Davenport & Mack, Belmond, Iowa.

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.

JESSE BINFORD & SONS, LISCOMB IA.

SHORT-HORN BULLS Two 15 mos. Others younger. Reds and roans, grandsons Cumberland's Last. J.T. Swearingen & Sons, Hedrick, Ia.

RED POLLED CATTLE.

PRIZE-WINNING RED POLLS

YOUNG bulls, from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare, on M. & St. L., or Barnum, on I. C.

FRANK J. CLOUSS, Barnum, Iowa.

Heavy Milking Red Polls

A FEW very choice bulls, old enough for service. Also a number of very choice females. Our herd won numerous first places and champions at the fall fairs. Our prices are very attractive. Address

THOS. L. LEONARD, Beaver Crossing, Neb.

WILES' RED POLLS

SOME very choice bulls, good even fleshers, some by Happy Jack 2d and all out of choice milking dams. The breeding is first-class and the prices right. Luke L. Wiles, Plattsmouth, Neb.

RED POLLED CATTLE

WE ARE offering a splendid bunch of heifers, some choice young cows with calves at side, also some tried cows due to calve soon. A few bulls of serviceable age. Address, mentioning Homestead,

ROGER VAN EVERA, R. 1, Davenport, Ia.

GALLOWAY CATTLE.

Pure-Bred Galloways

Bulls, Cows and Heifers for sale at farmers' prices.

JAMES P. MILLIKEN, MEDIA, ILLINOIS

Main line Santa Fe Railroad.

IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 31 bulls for sale. Address C. S. Hechtner, Chariton, Iowa

HEREFORD CATTLE.

Hereford Bulls for Ranchmen or Farmers

BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to

GEORGE D. HARRAH, Newton, Iowa.

HAGER'S HEREFORD SALE AVOCA, IA, MARCH 20, '13

50 HEAD—25 bulls, 25 cows and heifers. Send for my catalog. Address

A. F. HAGER - - AVOCA, IOWA

HEREFORD BULLS

12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals.

G. G. CLEMENT, - - - ORD, NEB.

CHOICE 7 Hereford Bulls 7

I AM offering 7 splendid young bulls for sale from 13 to 16 months. Mostly sired by BEAUMONT JR., and out of DUDLEY heifers. Some choice herd bulls among these. Address

BEN BROUGHTON, Lake View, Iowa.

Ten Head of Recorded Hereford Heifers for Sale

Call on or address B.W. GREGORY, Harlan, Ia.

When Writing to Advertisers Please Mention The Homestead

HORSES AND JACKS.

FRANK IAMS' DRAFT STALLIONS

are **"up to the minute"** and 10 years in advance. They are the **"drafty, big-boned type"—"nifty, big black boys"**—the **real "medal winners"**—sensational **"show and business horses"** of note, **"ripe peaches"** from the **select "400." Big, classy "peaches and cream" black boys."** The **"Iams brand"** of drafty **"top notchers."** Iams' **importation** of **Percheron** and **Belgian stallions** and **mares** are in the **"pink of condition"** and ready for a **"good selling." "Ikey boy,"** smile **sweetly,** and hundreds of Iams' satisfied customers **"will sit up and take notice"** that **Iams,** the **"king pin"** horse importer, is still **"doing business"** at the **"old stand." Iams** is **"pushing"** his horses to the front. The big **"peaches and cream"** "boys and girls" are **attractions** that can't be overlooked. Iams **mesmerizes** buyers with **"real drafters"** at **"bargain prices"** and having the **"horses as advertised."** Iams' **"competitors"** and **"hammer knockers"** are **"boosting** Iams" by their "knocks," until **now** he is **known** as the **"millionaire horseman,"** and on **"Easy Street,"** and growing fast. **Ikey, "come on along" and sing Iams' song.** He is selling these **"aristocratic," fancy "black boys" cheaper** than ever—or **better** horses **for less money—$1,000 and $1,400** (few little higher). Iams has

"Ikey Buyer," Bea "Wise Guy" —Buy **"Show Horses"** of Iams—who has crossed the Ocean **50 times** for horses and sold **4,444 Registered Horses, "Iams' 30 years of success"** make him a safe man to buy from at **Special Low Democratic Prices. "Everybody's Doin' It."**

100 PERCHERON AND BELGIAN STALLIONS AND MARES 100

They are **"models"—"humdingers."** They are 2 to 5 years old, weigh 1,700 to 2,500 pounds, 80 per cent blacks, 50 per cent ton horses. All **"registered," approved** and **inspected** by **governments** of **France** and U. S. and **certificates "stamped O. K."** All **"sound," "bell ringers" ("Iams' kind"—** need **no "state law"** to make **"them sound.")** Many **"prize winners"** and **"gold medal horses."** Big, **drafty "topnotchers,"** with big bone, quality, style, finish and **action to burn.** They are **"eye openers"**—larger and better horses than seen **elsewhere.** Big **"business propositons"** that make **"the wheels work fast"** under a **"buyer's hat." "Georgie, dear,"** Iams made a **"big killing"** by buying his horses in Europe in October, 1912. **"War scare," "dry weather,"** "bad crops," **"close money"** and **"Iams' cash"** caused the **"prize winners"** and **"tops"** to be thrown on the **market** for a **"good selling."—Iams "cut the melon"** and bought the **"rippers"** at **"knock-out prices." Iams** will give his customers the benefit of his **"good buy." "Ikey boy," "come on down town"**—see Iams—"Everybody is Doing It."

Get into Iams' "get rich wagon" and save $1,000 on a "top stallion"

(and you wear the diamonds). Iams is a **"big fly in the jelly"** in the horse world. "He keeps the gang guessing." **Iams** sells "imported horses only" —(they win 90 per cent of prizes at big horse shows). No **American-bred full bloods"**—no **"auction stuff"** or **"peddlers' horses"**—only **"choice drafters"** of **big size, bone, quality** and **finish. Iams** has the **"crack stallions** and **mares"** you **"read about."** Buy horses of **Iams** and you won't **"get stung"** in **horse** or **price. "Dolly D.,"** waltz me around **once** again, **"Ikey,"** land me at **Iams' box office** and **importing barns.** Full to "the roof" with **"black boys"** (and all must be sold). **Reduced prices.** All the world knows Iams and his **"peaches and cream" horses.** 1913 **promises** to be a **bumper** year to **Iams** and **his customers.** He saved **$300,000 to stallion buyers** in 1912. **Watch "Iams' smoke."** Iams' 30 years of **successful business** make him a **safe man** to do business with. **Iams sells horses "on honor."** A boy or a lady can buy as cheap as a man. **Iams' 1913 horse**

Catalog is an "eye opener." It has a "laugh" and a $1,000

bargain in every line. A **"bunch of gold"** to stallion and mare buyers. It is full of the real **"peaches and cream"** stallions. It is the **finest, most elaborate and original up-to-date horse book** in the world. Iams, the **"square deal" horseman,** makes every statement in **ad** or **catalog good**—or you get the $500 he **hangs up. Iams** guarantees to sell you a **better**

Imported Stallion at $1,000 and $1,400

(few higher) than are sold to **stock companies** for $4,000. Imported mares, $700 and $1,000. Iams gives **60 per cent** breeding guarantee; **pays freight** on horse and **fare** of one buyer. He can furnish $1,500 insurance. **Iams buys** and **sells every stallion himself. Saves buyers $1,000 in middlemen's profits.** He buys stallions by **"train load."** He speaks languages—(saving 20 per cent). He is **not** in the **"stallion trust."** No **partners** to share profits. He **"pays cash"** for his horses—and sells **"topnotchers"** by **"hot advertising"** and having **"the goods." "Big Ikey,"** leave your "happy" home and buy a **"top"** stallion or pair of **imported mares** (of **Iams**) that bring colts that sell at **$500 each. "Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American full bloods"** of **questionable breeding.** Buy an **imported horse** of **Iams,** the **"reliable horseman."** (Then we will **"all wear diamonds."**) Iams' **"selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog.** Iams won't let you go without a **peaches and cream** stallion or mare. **"He sells the horses quick."** Iams' guarantees are backed by **"half million dollars."** References—1st Nat'l and Omaha Nat'l Banks, Omaha; Packers Nat'l Bank, So. Omaha; Citizens State, 1st State and St. Paul State Banks, **St. Paul, Neb.** Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

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BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION

We have all ages. Write for catalog, prices and terms. Mention The Homestead and address

J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

Merry King 13229 Imp. & owned by John Leitch, Prop. Avondale Stud Farm La Fayette, Illinois.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.

Prize-Winning Clydesdales 2 STALLIONS, one full brother to the great Forest King, one a yearling by him. Size, big, flat, clean bone, good feet and lots of draftiness their characteristics. One mare, the dam of the yearling colt. I absolutely guarantee these to be all right. Address **Jas. Pedley, Britt, Iowa.**

AN EXTRA LOT OF YOUNG CLYDESDALE STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, Ia.**

FOR SALE. Registered Percheron stallion coming 7 years old, weighed on New Year's day, 2,110 lbs., sound, sure breeder. Sold for no fault. Address **JOHN E. WALLACE. Weldon, Iowa.**

PERCHERONS FOR SALE Stallions and mares. A Short-horn bull 5 months old. W. H. Miller & Sons, Independence, Ia.

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

- B-E-S-T-

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

OUR ENTIRE HERD OF 40 SHETLAND ponies for sale at closing-out prices. Address **Spivey, Robb & Co., University Place, Neb.**

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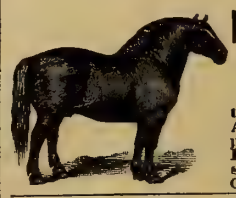

Hart Bros.

Osceola, Iowa

Our **1912 importation** now in our stables. A high-class lot of imported **Percheron, Belgian** and **Shire stallions** and **mares.** Come and see them.

VAN STEENBERGE'S DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

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FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

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The POWER OF PERCHERONS

BIG crops emphasize the necessity for first-class horse power. Quicker trips to the elevator, with heavier loads, means **real money,** and during the approaching winter mares might just as well be carrying profitable Percheron fonls instead of inferior, light weight young. Write me for free bulletin C. It tells all.

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FOR SALE Ten head of Percheron stallions, mares and colts. Address **Ashbaugh Bros., Maynard, Iowa.**

FOR SALE Black Percheron Stallion, weight 1950, age four, sound, good breeder. **JOHN HARMS, - LOHRVILLE, IOWA**

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

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SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

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FOR SALE—Duroc gilts bred. Shetland stallion. Ruby's Trinket 10679, black and white, 3 yrs. old, half value. Fred Hanks, R. 3, Box 55, Winnebago, Minn

FOR SALE—Bay Clydesdale stallion, 4-years-old. A good individual. A proven breeder out of a family of breeders. Wm. E. Coe, Mechanicsburg, Ill.

W. H. BARR & SON'S SALE

POLAND CHINA BROOD SOWS

RED OAK, IOWA, FEB. 4, 1913

40 HEAD---3 Matured Sows, 7 Fall Yearlings, 30 Choice Gilts---40

WE ARE selling a grand lot of brood sows bred to a great trio of herd boars, viz: **B's Mastodon, Pawnee Sensation** and **Orange Longfellow.** We are selling sixteen cracking good spring gilts by B's Mastodon in our sale, and they are all bred to Orange Longfellow, one of the greatest sons of Big Orange. Also some good daughters of Pawnee Sensation, Quality and other well-known boars. We have been breeding Poland Chinas for a quarter of a century and we never had a better offering than we are selling in this sale. Write for our catalog and kindly mention The Homestead. Address

H. S. Duncan and Bob Adkins, Auctioneers. **W. H. BARR & SON, Villisca, Iowa.**

J. W. CHAPMAN'S
Bred Duroc Sows
AT AUCTION.

WOODBURN, INDIANA

MONDAY, FEBRUARY 10th

35 HEAD, THE BEST I Could Breed or Buy 35

MOST of which are bred to **SUPERBA VOLUNTEER**, one of the greatest sons of Volunteer, dam Lucy Superba, the $525 sow, and a good son of Defender. These boars will be shown next year. The sows are by Defender, Superba, B. & C.'s Col., Model Wonder, Fancy Col., Instructor, Volunteer, Cherry King, John's Ohio Chief, Col. Ohio, King's Col., King of Cols., Defender King, Good E Nuff Again, Harding's King of Cols. and Bold's Crimson Wonder. The offering is one of the best in Indiana. Everybody invited and will be welcome. If you can't come send bids to H. E. Browning, representing The Homestead. Colonels Igleheart and Irwin, auctioneers. For further information and catalogs address

J. W. CHAPMAN, Woodburn, Indiana.

WM. HARDING & SONS'

Bred Duroc Sow Sale

BRIMFIELD, ILLINOIS,

FRIDAY, FEBRUARY 14th

40 HEAD, the Pick and Choice of our Entire Herd. 40

CONSISTING of fifteen yearling and aged sows, twenty-five fall yearlings and spring gilts. They are the best lot we ever offered. Several of our best brood sows are included, while a few show prospects, the cream of our large herd is placed at your mercy. Six choice gilts are by **"PROUD DEFENDER"** by Defender, dam Proud Fancy, while twelve select sows will be offered bred to him. Others are by Meddler, he by Proud Chief by Ohio Chief, and the Proud Defender gilts are bred to him. The herd is founded on the blood of Defender, Ohio Chief, Proud Advance, The Col., Crimson Wonder and other popular families. The entire offering has great size and growth and is even throughout. Free entertainment. Mayer Hotel, Peoria, or New Elmwood Hotel, Elmwood, night before sale. H. E. Browning will represent The Homestead. Bids by mail or wire should be sent to him in our care. Cols. Fred Reppert, H. L. Igleheart and assistants, auctioneers. For catalog address

WM. HARDING & SONS, Brimfield, Illinois.

Don't forget the Comer-Van Meter sale at Pawnee, Ill., the day before and Wirt & Cottingham at Trivoli, Ill., the day follov

THE R. L. COMER--VAN METER

DUROC SALE

PAWNEE, ILLINOIS

Thursday, February 13th

50 Head of Duroc Bred Sows at Auction. 50

BRED to Col. I Am, first-prize senior yearling, senior champion and grand champion and Dominator Col., first-prize junior yearling Illinois State Fair, 1912. Others are bred to College Professor and Illustrator, first-prize pig Illinois State Fair, 1912. These sows are sired by C. W. III., B. & C.'s Col., McNeil's Model, The Professor, Col. I Am, L. E.'s Valley Chief and others. H. E. Browning will represent The Homestead. Bids by mail or wire should be sent to him in our care at Pawnee, Ill. Colonels Igleheart & Reppert, auctioneers. For catalog address

R. L. COMER, Carlinville, Illinois. or **A. D. & W. H. VAN METER, Williamsville, Illinois.**

CHOLERA IMMUNE

Cottingham's

CHOLERA IMMUNE

DUROC BRED SOW SALE

Trivoli, Ill., Saturday, Feb. 15,

40 Head 40

6 Tried Sows
14 Fall Yearlings
20 Spring Gilts
Also
4 August Boars and 4 August Gilts (not related).

40 Head 40

Sired by Eric the Red
Echo Top King
Cherry Prince
Inventor III.
John's Ohio Chief
Good E Nuff Again
Chief J. E. L.

SOWS are bred to Cherry Prince by Cherry King, Aviator by Good E Nuff Again and Young Defender. **Special Notice.** My herd was immuned last June by the simultaneous treatment (state virus and serum). Therefore these sows are positively cholera immune bred to immune boars. **Send for catalog. Mention Homestead. Come February 15th.** Wm. Harding & Sons sell at Brimfield, Ill., the day before my sale. Plan to attend both sales. Within easy access of each other. Auctioneers, Colonels Igleheart, Reppert and Reed. H. E. Browning represents The Homestead.

Trivoli is 17 miles west of Peoria on M. & St. L. R. R. (formerly Iowa Central).

CHOLERA IMMUNE

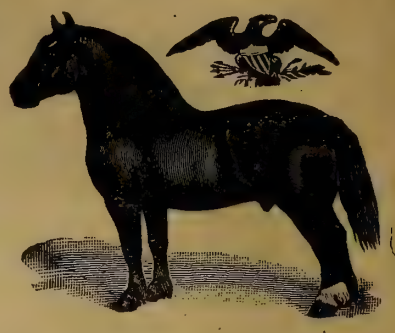
Wirt A. Cottingham,
Trivoli, Illinois.

CHOLERA IMMUNE

HORSES AND JACKS.

Holbert Horse Importing Company

The World's Greatest Importing Establishment



Percherons, Belgians, Shires, German and French Coachers, Hackneys

Big, ton black and gray Percherons our specialty—Blacks, black-grays, steel-grays and dapple-grays.

Royal Belgians—We import more Belgian stallions than any other firm in the U. S. Bays, browns, roans, chestnuts and blacks.

Shires—The best that old England produces.

We have at any time of the year more big, ton, high-class Percheron and Belgian stallions than any other firm in the U. S.

If your neighbor is thinking of buying a stallion send us his name and address and we will mail you FREE a beautiful lithograph of our premises, suitable for framing, showing 200 head of stallions.

A. B. HOLBERT, Proprietor and Manager, GREELEY, IOWA

FAIRVIEW STOCK FARM

PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK, - - LITCHFIELD, NEB.

PARAMOUNT STOCK FARM

BREEDS AND IMPORTS

PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to **Hudson, Iowa,** and see **Crownover's** new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

WILLIAM CROWNOVER - - HUDSON, IOWA

IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

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60 **HEAD MISSOURI AND KENTUCKY BRED.** A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

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PIERCE FARM WEEKLIES, DES MOINES, IOWA.

McLAY CLYDESDALES MAKE GOOD

McLAY BROTHERS,

Janesville, Wisconsin

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

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Imported Belgian, Shire and Percheron Stallions for sale at all times. Write me, address

MINIER, - - - ILLINOIS

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska.

PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA

Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.

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I AM offering some splendid yearling and 2-year-old stallions for sale at popular prices. Address

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10 Prize Winning Belgians

IMPORTED and home-bred stallions and mares, ranging in age from yearlings to matured horses. Some splendid mares and studs for sale. For particulars address

ED BOLL, JR., - SCRIBNER, NEB.

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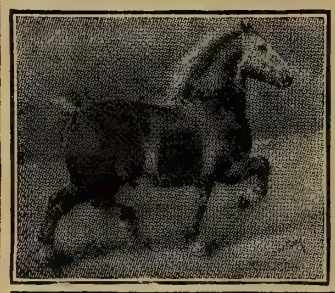
IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE STALLIONS AND MARES.

50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grows. We always have a good assortment of imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

NORTH & ROBINSON CO., Grand Island, Nebraska



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Greeley, Delaware County, Iowa.

Importers [of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars. Large CALENDAR now ready.

IMPORTER AND BREEDER OF PERCHERONS AND BELGIANS

CUSTOMERS get their money's worth on stallions and mares. Every animal just as represented. Can't be under sold by any firm, considering quality. All young, from yearlings to five year olds Farms one mile from town. We meet trains.

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The Best Value

HOME-grown Registered Percheron stallions of substance, 2 and 3 yr. olds, grays and blacks. Big, straight fellows that will pay you. It is worth a stamp and a moment's time writing to know about these. South Central Iowa. Fast trains.

FRED CHANDLER, R. T, CHARITON, IA.

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IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

SPECIAL OFFER THIS WEEK.

IN ORDER to move the few horses that I have on hand am naming special prices for quick sales One splendid gray and three blacks, Would trade one for mares. Can please those looking for a good horse and save them some money. Percherons and Short-horns our specialty. **F. A. Egger, Crystal Lake Stock Farm, Sprague, Nebraska.**

PERCHERON STALLION in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C. W. Chandler, R. 4, Kellerton, Ia.

IMPORTED PERCHERON AND BELGIAN STALLIONS AND MARES

Also Home-Bred Stallions

I think it is better to have extra good stallions to show when customers come to see, than it is to claim you have them and cannot show. If interested, write or come and see me.

Bell Phone 237 or Union Hotel. On C. B. & Q and Santa Fe Railroads.

J. R. JUSTICE, at Union Hotel, GALESBURG ILL.

IMPORTED BELGIANS

I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.

R. F. FRENCH, INDEPENDENCE, IA.

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150 STALLIONS

Home-bred draft stallions, $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds.

A. LATIMER WILSON, Creston, Ia.

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

WANTED---Young Stallion and Pair Percheron Mares

T. BRADY, Worthing, South Dakota.

HORSES AND JACKS.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1912

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 5th 1912 importation arrived Oct. 29th. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

PERCHERONS BELGIANS SHIRES

Our horses are the best that money and experience could secure in Europe, and we invite the inspection of critical buyers. We have no long story to tell in our advertisement. Our horses tell their own story and we want you to be the judge. We give the most ample guarantee and any responsible person can make the easiest of terms. Come and see what we have to offer.

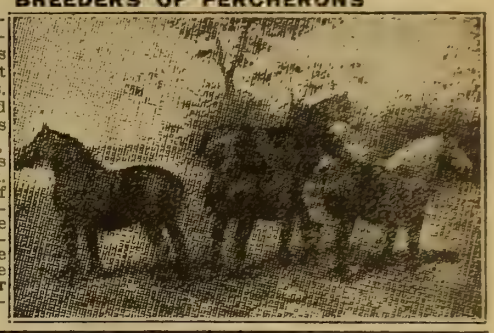
TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY, ILLINOIS

On Chicago & Alton Railroad and Illinois Traction System

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



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are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action, size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, DE KALB, ILLINOIS

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

HOMEWOOD STOCK FARM

Our New Importation of

100 PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

Arrived October 15th and can now be inspected at our stables. If you want to save from $300 to $500 on a stallion or a pair of young mares you can do so by buying at once. **Every animal guaranteed sound and a satisfactory breeder.** Write at once for particulars or call at the farm.

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STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

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SELL or trade for good jacks. All registered, mostly imported. 40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. NO PUBLIC SALE THIS YEAR.

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I O

The Iowa Homestead

VOL. LVIII. NO. 6 DES MOINES, IOWA, FEBRUARY 6, 1913. WHOLE NO. 2887.

Whose Word will you take?

A Car to Keep

You are going to buy **a car to keep,** if you're going to buy economically. And a car, on your roads, needs a sturdy foundation to carry its power and load for years, needs more than mere specifications and "looks."

Trained engineers can't tell by appearance what a car will do. They can't pre-judge materials any better than you, for the cheaper steels look the same as the costlier. They must analyze every piece of metal in a laboratory to know what that metal is, and will do.

A car seldom tells its story inside of a year. Then it fails or it lasts, according to what the maker puts into it.

You must buy your car on the material basis—on the unseen values—if you are to get a car to keep.

And you must take somebody's word for this quality until you have proved it out on the road.

The thousands of customers we deal with regularly know you can take our word.

For Seventy Years

For seventy years the J. I. Case Company—a $40,000,000 concern—has manufactured the finest machinery in its line. For 70 years men have been trying it and finding out its worth. Some of our customers have dealt with us steadily for more than 50 years. For seventy years the business has been operated on a close-margin policy. You know Case Products. You know how they last. You know, by results (you do or your friends do) the grade of materials we use.

Case Cars are made by the same company that has made this machinery for so long. They are made on the same close margin of profit. Don't you think, selling to the same people who use our machinery, we would use the best materials for the purpose throughout in **these cars?**

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A car to be good today must be good for a lifetime if the buyer wants to keep it. City cars that run but a few thousand miles won't do on American roads.

We could make large savings on the cost of our motors by using cheaper materials.

We could save on our clutches, transmissions, drive shafts, wheels and other vital parts.

We could make large savings on axles if we used other than complete Timkens.

We use the same radiator that $5,000 cars employ.

We could cut our assembling cost in two and this cost is one of the greatest.

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No expense is too great, no method too irksome, to perfect every part in fit and in quality. For Case Automobiles, like all Case Machinery, must operate perfectly, and must last like a tractor with one-tenth of a tractor's weight.

One must use the finest steels in existence to get both strength and lightness.

So we use this care and these better materials throughout the entire car.

No other car that we know, selling at anywhere near our price, uses such care and materials. No other can.

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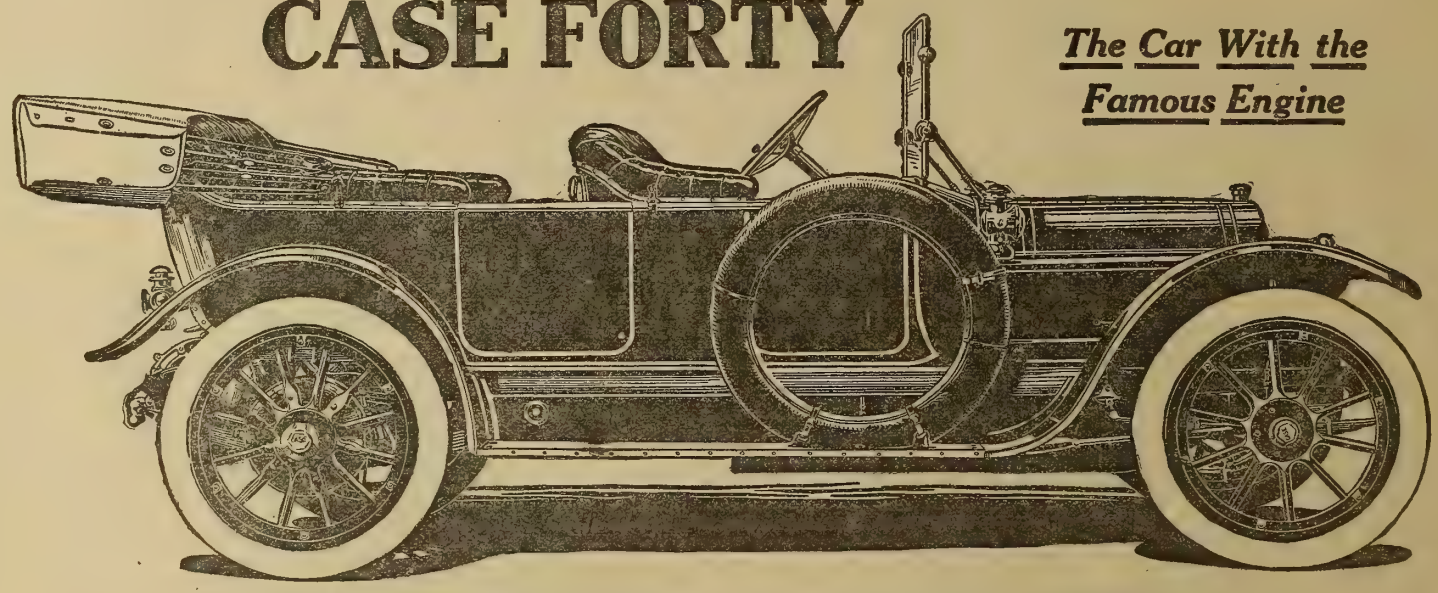

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Westinghouse Electric Starter and Electric Lighting Outfit for all Lamps; Side and Tail Lamps, Combination Oil and Electric; Warner Autometer; Electric Horn; Rain Vision Ventilating Wind Shield; Mohair Top, Side Curtains and Cover; 37x4½-inch Tires; Firestone Demountable Rims; 124-inch Wheel Base; Three-Quarter Elliptic Springs; 4½x5¼-Inch Cylinders; Brown-Lipe Transmission; Timken Full Floating Axle; Rayfield Carburetor with Dash Adjustment; Bosch Magneto, Dual System Single Point Ignition. The usual Tools, Tire Repair Kit, Jack, etc. ***And in addition Extra Tire and Tube on Rim, Extra Tube separate, Tire Chains, Tire Cover and Handy Work Light on long wire.***

The Reason

No maker of automobiles alone could effect our manufacturing savings, for we didn't have to create a new business.

We added practically nothing to our selling expense. We had all our agents before a car was turned out. We added no salaries for officers, sales manager, advertising department, office rent or other overhead charges.

We need only reasonable profits. Our system, built up through seventy years, permits us to pare them down to the minimum, to effect great factory economies.

It allows us to put all this into the car, to put better things in a Forty than ever went into a Forty before.

You get the benefit of these savings.

They pay us no money, save that which "goodwill" brings to a firm that obtains it.

They pay you, through better materials, in upkeep, repair bills, and in the cost of new cars every year.

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Go to a Case Branch or one of our 10,000 dealers and see this new Forty. Ask to ride in it. See how it runs. Note its style and equipment. See also the Case Thirty at $1,500.

Send the coupon for letters from owners that tell their experiences, and the Case Catalog describing the Case Forty and the Case Thirty in detail.

No other cars in the world are so ideally built for years of service on American roads.

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Case Cars are sold through 10,000 Agents and 65 Branch Houses.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, FEBRUARY 6, 1913.

Methods That Make Poultry More Profitable

An Outline of the Quickest and Surest Method of Adding to the Profits of the Poultry Raiser by the Simple Process of Grading Eggs.—*By Wm. A. Lippincott, Kansas Agricultural College.*

THERE are two ways of earning more money with farm poultry than is now realized. One is by securing higher producing stock; the other is by marketing the products already produced, to better advantage. To secure the highest possible profit from farm poultry, both ways should be combined. The second way, however, will bring much quicker returns, though not necessarily surer returns than the first. Most poultry products purchased from the farmer in the central West are bought on the flat price or average price basis. Chickens are graded into hens, roosters and springs, but no difference is made between good hens, poor hens, or "A No. 1" springs, and those that are not so good.

Most of the eggs are purchased on the so-called case-count basis. This means that the buyer guesses at the number of bad eggs, of second-class and first-class eggs he is likely to get and fixes the price accordingly. Every one who offers eggs for sale, whether good, bad or indifferent, is paid the same price. Such a basis of buying is fundamentally wrong, no matter what the product. It is wrong for two reasons. In the first place, the man who produces good goods doubtless feels that the man who produces poor goods is paid money which he should have, for it is the careful and conscientious farmer who bears the burden and who pays for his thriftless neighbor's lack of care. In the second place, it is wrong because it is impossible to get a general improvement in poultry products for market purposes until there is a financial incentive for such improvement. At the great stock yards in Chicago and Kansas City we often hear that "such and such a load of steers or car of hogs topped the market." This is possible because the better the beef the richer are the returns. With eggs and poultry this is not so.

In introducing the system of buying on a quality basis it is probable that eggs offer the point of least resistance. It is comparatively easy to grade eggs according to their quality into first-class eggs, second-class eggs, and eggs that are not fit for human food. One buyer in a small town in the middle West who tried out the method of paying "a quality price for quality eggs" had the following experience: On the last day of May he was paying fourteen cents a dozen for the eggs he bought from the farmers. On the first day of June, he began paying fifteen and one-half cents a dozen for first-class eggs, and thirteen and one-half cents for second-class eggs. Eggs that were not fit for consumption were returned to the people who brought them in. It so happened that the average market price remained the same for the next four weeks, so that his price remained at fifteen and one-half and thirteen and one-half cents. At the end of the first month instead of paying an average price of fourteen cents, his eggs were costing him a shade over fifteen cents. This was because of two things. In the first place, his price of fourteen cents was about one-fourth cent below what he should have paid as an average price. He can hardly be blamed for this, however, because it is natural when a man is guessing at the loss he is likely to sustain, in buying on the case-count basis, that he should guess in his own favor. In the second place, as soon as there is a financial incentive the farmer begins to keep the small, dirty and doubtful eggs at home, and to bring the eggs that are large and clean and that he knows are fresh.

In this way the quality of the eggs which this man bought were improved so much that it brought up the price nearly three-fourths cent. The good farmers were better satisfied and the dealer was better satisfied, the former because they were receiving better prices for their goods, the latter, because he was getting better goods. While they cost him more he could market them to better advantage.

There are two reasons why the quality buying of eggs has not been adopted more widely than it has. The first is, that because it is something rather new it is distrusted by the farmers. This distrust is taken advantage of by unscrupulous buyers who may be the competitors of the persons who are trying to put on a grade basis, to such an extent that very often the person who starts to buy on a grade basis cannot get a large enough volume of eggs with which to carry on his business. The second reason is, that sometimes egg buyers are dishonest in their dealings with farmers, and the farmers feel that they do not get an honest return for their goods.

I see no reason why this matter cannot be handled on the same basis as the cream buying is being handled by several of the progressive western states. I believe that the matter should be put under state control, and that before being allowed to buy eggs a person should be compelled to demonstrate that he knows how to buy eggs on a graded basis, just as he must now pass an examination to show that he knows how to test cream. And furthermore, having secured a permit from the state to buy eggs, he must buy them honestly or else have his permit or license taken away from him. Such a system has not been found perfect in buying cream, but it has been found to bring about such a marked improvement in conditions as to be considered entirely worth while.

Later the same system could be applied to the buying of poultry. It has been found by investigations carried on in the central West by the United States government that 42 per cent, or nearly half of the hot-weather loss in eggs, is eliminated when infertile eggs are produced. Eggs produced from flocks of hens or pullets that are not mated with a male bird stand shipment better, stand the hot weather better, and in fact almost every kind of condition that brings about deterioration in eggs.

In a great many cases, however, it will be impossible for farmers to produce infertile eggs until there are laws on the statute books making it a misdemeanor for male birds of all lines of domestic poultry to run at large. The question of

(Continued on page 17.)

THE PROPER GRADING OF EGGS FAIRER TO PRODUCER AND CONSUMER ALIKE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

SUBSCRIPTION RATES—Single subscription, $1.00 a year. In clubs of ten, 75 cents a year and an extra copy to getter up of club. In clubs of fifty or more, 30 cents a year. Single subscription three years in advance, $1.50; five years in advance, $2.25; ten years in advance, $4.00. Subscription price in Canada, $1.50 a year. Remit by draft, registered letter, postoffice or express money order. In changing address, send both the old and new addresses. In renewing, give the same name and initials as you gave before or state both the old and new names, and explain why you make the change. In case of errors or failure to receive the paper within two weeks, promptly notify the publisher. Address all letters to

THE HOMESTEAD COMPANY,
Des Moines, Iowa.

A PERSONAL STATEMENT.

On Monday of this week, at four o'clock in the morning, fire broke out in the plant of The Iowa Homestead. Five hours later the building had been completely gutted, the intricate and expensive machinery with which the mechanical departments were equipped stood enshrouded in ice, ruined to the extent of many, many thousands of dollars. With daylight came the realization that one of the most severe blows received in a third of a century of active newspaper work had been administered suddenly, without a moment's warning. Accompanied by members of my family I watched the flames wreak their destruction, despite the most heroic efforts on the part of the brave firemen. At the hour of this writing (Monday noon) the scene is a desolate one, but hope is rising triumphant over the despair of the early morning hours and order is beginning to twinkle dimly where only chaos was apparent before.

Already, I am able to inform my subscribers and friends, plans are under way which will mean a larger and finer Homestead plant, one which shall be in keeping with the magnitude of the business which we have attained by the painstaking, conscientious work of a third of a century. But in the meantime, for the ensuing two or three weeks, during which the multitudinous details of clearing away the debris and bringing order out of chaos will occupy not only every moment of my own time, but also that of every one of the Homestead employes, there must of necessity be the patient co-operation of my subscribers, patrons and friends if this dream of a re-built and enlarged plant is to come true. With the most sincere thanks for past favors and courtesies and pledging every ounce of my undaunted strength for the future, I am obliged to ask of every friend and patron the patience and assistance without which no man or business can recover from the staggering blow administered by the flames today.

The fire comes at the busiest season of the entire year. Our advertising, subscription and editorial departments were never busier than they were last week. I had planned to issue a paper this week which should establish a new record for myself and set the pace for my competitors. Of a sudden, my plans are knocked in the head. But the delay will be only temporary. Quarters have already been established where the various departments will work to undo the injury and damage wrought in the past few hours. Newspaper friends have offered every assistance possible. For the ensuing two or three weeks I shall avail myself of these kind offers and use the typesetting and electrotyping machines of other plants for the composition work of The Homestead, until our own mechanical departments can be put in order again and we can return to our own composing room, better equipped then ever before.

Should there be delay in receiving the paper, or should minor errors, either of omission or commission, creep into the paper during these trying weeks of reorganization I humbly beg the patient indulgence of my readers and patrons. Order will be established as rapidly as human hands can bring it about, for although temporarily crushed the spirit which has brought The Homestead to its present high and commanding position is as indomitable as ever.

With the flames still licking their way through the building and with cascades of water flowing from floor to floor (while a cold wintry wind adds to the bleakness of the scene and the discomfort of those who silently watch the work of destruction) I can only write these few words and request of every subscriber that he be patient if his paper is a few days late; of every advertiser that he bear in mind the disadvantages under which we labor in the production of a paper which shall herald his wares or offerings to the farmers of the grain belt; of all my numerous friends, here at home and elsewhere, that they give me the benefit of their well wishes and cheering support until the trying days of reorganization are at an end.

With renewed assurances of appreciation to those who help me bear the staggering blow by being patient with the temporarily disabled service, and of determination to devote every minute of time and every ounce of energy to repairing the loss as quickly as possible, I remain

Most sincerely yours,
JAMES M. PIERCE,
Publisher The Iowa Homestead.

THE EFFECT OF GRADING GRAIN

It is possible to wear a subject threadbare, to nag readers until they weary of good advice. We are reminded of this as we take up the topic found at the head of this article. Possibly our readers will bear with us if we promise here and now that we have some new facts to offer in regard to the effect of grading grain on the yield.

The facts we refer to have been worked out by Prof. C. A. Zavitz, director of the Ontario Experiment Station. For eight years in succession this scientist tested the relative yielding ability of heavy seed, small, plump seed and seed of medium size and weight. The heavy seed in this case represented the type of grain that would result from a thorough system of grading. In the case of oats the average yield of the heavy grain for an eight-year period was sixty-two bushels per acre, while the medium-sized seed yielded 54.1 bushels per acre and the small seed 46.6 bushels. Here was a gain of practically eight bushels per acre as between good seed and seed of medium quality. It should be borne in mind that in these experiments the same number of grains were used in each instance so that the error which so commonly creeps into investigations of this kind was eliminated.

Whether we regard this subject as threadbare or not we cannot deny the fact that an extra eight bushels per acre would in the majority of cases throughout the corn belt make a difference between profit and loss in oat growing. The average man uses small grain for two purposes: In the first place, to rotate his land and, in the second place, to obtain a stand of grass seed and little more is expected from oats than that they will cover the cost of the seed and labor. If in addition to this we could obtain an eight-bushel profit the labor involved in grading the seed would be covered by the increase from a very few acres.

Commenting on the results of his investigation so far, Professor Zavitz says:

From a practical standpoint it seems to be excellent practice, not only to sow clean seed grain that will be free from weed seeds, but to have the cleaning so thoroughly done that none but the very best seed is secured. When this practice is carried out an important step has been made towards the obtaining of high yields of grain of superior quality.

It should be clearly understood that in this experiment exactly the same number of seeds were used in the different plots. The experiment, therefore, deals with numbers of seed rather than exact quantites of seed used on given areas of land. The results indicate in a very marked degree, however, that the large, plump seeds will produce larger, more vigorous and more productive plants than seeds of the other selections included in the experiment under discussion.

While we gave only the results of experimentation with oats it may be added that similar returns were obtained in the case of spring wheat, winter wheat, barley and peas. In each case the returns from the heavy seed were more than sufficient to justify the expense involved in grading. The Nor'-West Farmer speaking in the interest of the wheat growers of the great Northwest, says that the yield of wheat can be increased from 5 to 20 per cent if attention is given to the selection of the seed. The fanning mill is an efficient machine for selecting seed; it removes not only the small and shrunken kernels, but also many of the obnoxious weed seeds. Therefore, its purchase is the best investment a farmer can make. All seed grain should be carefully run through the machine in the winter months when there is practically nothing else to do. Under no consideration should this important part of the farm operations lie postponed till seeding time. The hustle and bustle at that time of the year will either result in a poor job being made or else in its entire neglect.

THE PLEASURES OF TOWN LIFE.

In these days of Chautauquas, institutes, short courses and neighborhood clubs, when the farmer is repeatedly told that he is just beginning to realize the social possibilities of farm life, it will not do to forget that yesterday had its rural amusements, different from those which are the vogue today, but none the less enjoyable. What, for instance, among the club and institute and Chautauqua pleasures of today can surpass the joys of the husking bee, as so vividly told in the novel of Kansas and Missouri life recently published under the title of "Madison Hood:"

The sun rises on a crisp, frosty morning and for miles around is heard the rattle of numerous farm wagons of the neighborhood, and the song, the whistle and the cheer of the lusty farmer boys frolicking in the empty wagon boxes, while the teams are urged along to some particular neighbor's field of ripened corn, which is to be husked and cribbed in a single day. With a whoop and hurrah the strife begins and the battle of the husks is on—and lasts till the sun goes down. All day long the wagons, heaped high with ears of yellow corn, are driven to the cribs, where the corn is thrown in with scoop shovels. The night comes on; the field is finished, and the tireless hands that tugged and wrestled with husks and ears, and the faces covered with dust from the blades, are washed in tin pans in the back yard, and dried with long towels made of gunny sacks, half a dozen rollicking men hanging to one and the same towel. Supper has been prepared with the aid of a dozen of the buxom neighbor girls. Turkey and "taters," pumpkin pies, ginger bread and homemade molasses are ravenously disposed of, while many a jest and joke and turn goes around, and the blush and smile break out upon the face of the jealous swain.

The supper is over, the floor is cleared, and the country fiddler takes his place and pats the time with his cowhide boot to the tune of "Leather Breeches," "The Raccoon Tail Am Ringed All Round," or "She's a Hole in Her Stockin', But Her Heel Keeps a-Rockin," and a dozen others equally inspiring. The square dance is on in all its glory; "Swing the Girl Behind You!" "Add a Man Left and Promenade All."

The older heads are seated near the fireplace, peeling apples, drinking cider and telling stories, and even some of them can scarcely hold their heels when the Virginia reel is called. The wee small hours have come; the hickery backlog is burning low, the tallow candles have been snuffed and snuffed, and the dance is over.

The wagon boxes that hauled the corn are now filled with straw and the girls and boys scramble in, using the spokes of the wheels as steps, being careful not to soil their clothes with axle grease; again the noise of the rumbling and rattling over frozen ground breaks the stillness of the night, and the youngsters hie away, singing:

"We won't go home till morning,
We won't go home till morning;
We'll dance all night,
Till broad daylight,
And go home with the girls in the morning."

The youngsters of today can only appreciate such a scene in fancy, but there are thousands of our older readers who will find their pulses quickening as they recall the husking bee, spelling schools, taffy pullings and apple parings of their youthful days by reading this description. A great many sociologists are covering a great many sheets of paper nowadays telling how the farmer is emerging from a sort of chrysalis stage of life which had few or no amusements and few or no comforts, as though farm life heretofore had been a kind of hibernation and the awakening was only just coming. It is true that never before were farmers so prosperous, never before were material comforts so roseate, but this should not blind us to the fact that ever since the first plowshare was first sunk into the virgin earth the tiller of the soil has had his pleasures and his rewards commensurate with his toil. It will not do to spend all our life looking forward to good times; they have existed in the past and are in existence now. No period has any monopoly on pleasures or enjoyments, and the farmer has had his satisfying diversions in the past every bit as much as now.

LEGUME FOR SANDY SOIL.

A subscriber living on the Missouri river bottoms, just north of Omaha, is renting a farm from year to year, and wishes to find some legume that may be sowed or planted, from one season to another, that will make good feed for his herd of dairy cows and that will also prove of benefit to the soil.

The locality in which our subscriber lives is almost too far north to succeed in greatest measure with cowpeas, or we would recommend that he plant or sow them. The cowpeas, however, are a more southern crop, and we fear they would not do as well there as something else, as, for instance, Canada peas. If advisable to sow oats on the sandy soil which our subscriber farms, we would most certainly try a mixture of oats and Canada peas, which are very much more hardy than the cowpea, in fact it is suited to a northern climate, while the cowpea is suited to a southern climate. A mixture of about a bushel and a half of oats to the acre and the same amount of Canada peas, would make a very heavy growth of excellent forage and it would make a good feed for dairy cows. The reason we advise oats with the peas is to give the pea vines a support, to hold them off the ground. An oat that grows a heavy, stiff straw would be preferable on this account. It will be found, in an ordinary season, that this mixture will give a heavy yield of hay to the acre, and it will be a hay that will bring milk when fed to good cows. The soil will also be benefited to some extent by growing the pea crop, which is of leguminous nature.

We would advise sowing this mixture from two to three weeks later than the usual time of oat sowing, as a ranker growth will be secured from a sowing made a trifle late, especially of the peas, than where sown early.

Education in the public schools and especially in the country schools, is in the hands mainly of unskilled instructors, according to a bulletin issued by the bureau of education as the result of an investigation made by two of its experts. Not more than one in every five teachers, the investigation disclosed, had been graduated from a teachers' training school. The conditions were depressing, the investigators declare, and the report is pessimistic in tone.

Studebaker

How Studebaker Automobiles Are Made

A Heart-to-Heart Story. No. 1

BECAUSE farmers are acquainted with machinery, we have decided upon an entirely new kind of farm paper advertising.

We shall run a series of articles in 28 of the best farm papers in the United States reaching upwards of 2,700,000 farmer subscribers. How many readers that will mean you can judge better than we. The first and greatest problem of all automobile manufacture is simply this: How to produce the best car for a low price.

Now, there is just one way known to man by which this question can be answered, and that is: By building so large a number of cars that the manufacturer can afford the machinery necessary to build cars in the best manner possible.

This is what is known as modern Quantity and Quality Production.

Let us stop here a moment and make it clear. Most manufacturers of automobiles are "assemblers," not real manufacturers. They buy a motor from one parts manufacturer, a transmission from another, a rear axle from another and then put the parts together to make a car. Naturally they have to pay a good profit to the parts manufacturers and then resell to the buyer at another profit. When they are done they may have produced a pretty good car, but—and this is the point—it is bound to cost the buyer several hundred dollars more than it would cost if the manufacturer made the whole car himself.

Remember two things here:

One: No matter what price you pay you never get more than you pay for.

Two: Every high priced car and every assembled car could be sold at from three-quarters to three-fifths of its present price if the manufacturer really made all his own car and if that car were built in quantities upwards of 20,000 cars annually.

This brings us to the Studebaker method:

We manufacture Studebaker automobiles from top to tread in our own factories, which cover 40 acres of floor space. And we are building 50,000 cars this year.

(The only exceptions to our own manufacture are tires, lamps, magneto and one or two similar parts, which no automobile manufacturer ought to build.)

For these two reasons, and these alone, we are able to sell cars at $885.00, $1,290.00 and $1,550.00 which cannot be equalled by other cars at an average of $500.00 higher price.

We start with the raw material, chiefly bar steel and pig iron.

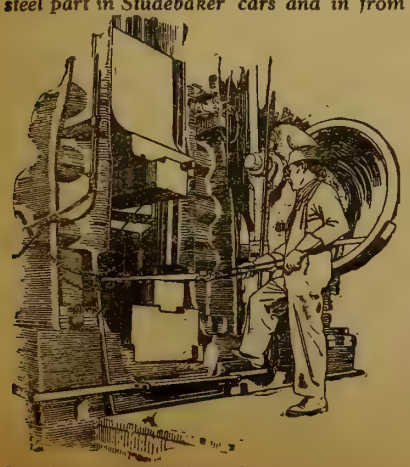
This raw material begins its long journey of many processes and many weeks of time towards the finished car, thru three or four main opening channels in our factory.

1. THE FORGE SHOP. *Forty great hammers working on white hot steel.*

2. THE FOUNDRY. *A huge building where molten pig iron is poured into moulds almost as carefully constructed as for precious metal work.*

3. THE STEEL STAMPING MILL. *Huge presses take steel plates of different gauge thickness and under many tons pressure stamp them into form.*

4. THE HEAT TREATING PLANT. *Forty deep ovens at glowing heat take every vital steel part in Studebaker cars and in from three to six separate treatments make it hard and tough.*



Forging a Front Axle in 4,000-lb. Drop Forge.

No man, least of all a farmer who is accustomed to tilling the soil and getting back to first principles, can stand before these immense glowing gateways of Studebaker manufacture and not be stirred with the thought that here things are genuine and what they seem. Who can see a four-ton drop-forge hammer seize a hot square bar of steel and fashion it into form with blows now gentle, now awe-inspiring, without feeling the power and skill which control such forces.

Yet first we must go one step back of this to a quiet place of study and diligent experiment—our laboratories.

Here are highly trained specialists working over a microscope or adjusting a spring-testing machine, or watching a liquid change color in the chemical laboratories. It is such a scene as you would witness in the best universities, and no university has better equipment.

Yet the word of these men who are so far removed from the din of the forge shop and stamping mill make the law of our factories.

What material we shall use they specify.

Our laboratory experts tell the Pittsburgh steel mills what kinds of iron and steel we will use for the different parts and the mills make the steel and iron as we specify.

But we go further and will not accept a single shipment until the laboratories have tested it and found that it is in accordance with our formulas.

Pouring Moulten Iron in Studebaker Foundry.

In other words, our laboratories tell us to the thousandth part of one per cent what our steel is made of and what it will do under any given conditions.

Let us now turn for a moment and speak of steels themselves.

You have heard and read often of Krupp, chrome, nickel, vanadium, manganese and other kinds of steel alloys. You have been told that this or that steel is "specially heat treated." Unless you were an expert these terms have been meaningless—even if you were an expert you wouldn't be real sure just which steel was best suited for each particular part unless you knew the amount and kind of strain that each particular part is subjected to.

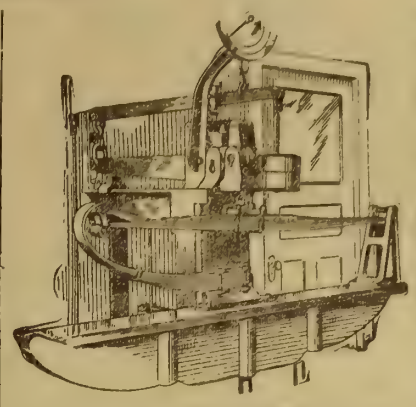
But when the Studebaker engineers design a car they know by mathematics the "strains and stresses" to which each part is to be subjected, just as a bridge-builder knows what strains or stresses will fall upon each part of his structure. The automobile engineer, however, is called upon not only to provide a part strong enough, but also to provide it light and compact enough to simplify design and keep the weight of his car down.

Remember this next time you ask a salesman the weight of his car and remember also that in the Studebaker factories the engineer works with the scientist.

Now we have already spoken of heat treating, and as heat treating finally determines the quality of all steels, we shall describe it further:

Remember that heat treating means to steel about what baking does to bread. To say "this steel is heat treated" is a good deal like saying "this bread is baked." But just as other things are important about bread, so also with steel. The kind of stuff in it, the way it is baked, the temperature, the oven, the brown it gets on the crust, all these things are important in steel, as well as in bread.

The scientists in Studebaker laboratories are specialized experts in steel. They know steel as a good baker knows bread. The baker strives to get a fine, even white grain to the inside of his loaf; the steel expert under a microscope, which magnifies 1,000 diameters, studies the grain of the steel. He watches the effects of great pressures exerted at high temperatures or the changes in structure brought about by "tempering."



Spring Testing Machine Which Bends and Releases Spring Many Times a Second, for Days at a Time.

In order to get just the right "temper" he chills the glowing metals in oil, water or brine, as may best give him the desired result.

By varying the heat treating according to temperature and using the right kind of "tempering" he adds to or diminishes the amount of carbon, chromium, nickel or other materials in the steel by precisely the right amount for a gear, a crank shaft, an axle, or spring. The springs, for example, are "tempered" in oil and because this is a delicate process it takes from three to six operations.

Do you begin to see how thoro Studebaker manufacture is?

Steel is usually hard or soft, according to the amount of carbon in it. Nickel makes it very tough and highly resistant to twisting strain. Chromium adds both to toughness and hardness.

Supposing, then, we are making an axle shaft which must turn its rear wheel over 30,000 to 100,000 miles of road in its day. It must travel a long road which knows many bumps, terrific jars, strains in mud, sand and steep grades, and it must not break. For this shaft we take the tough, resistant nickel steel and heat treat it until it just suits the purpose.

Or we may be studying a driving gear. This must be glass-hard to resist wear. It dare not be brittle or the teeth would fly into a thousand chips. By proper heat treatments we provide for all this.

Then there is the steering knuckle, which must not fail, and a thousand other parts, each of which will be subjected to a different kind of wear or strain and each of which must be unfailing in the performance of its task. So every Studebaker part is carefully studied, designed right and manufactured as carefully as if on it alone hung the honor of the Studebaker organization.

And now that the Studebaker laboratory experts have told us what steels shall be used at every point in the car, suppose we turn again to those three main channels thru which the steel is admitted to Studebaker manufacture.

First the drop-forging. A drop-forge is really the old blacksmith's forge grown to gigantic size with hammers of thousands of pounds of weight. The steel comes in a long bar, which is first put in a giant shears that clip it off as neatly as the housewife snips her thread.

The bar is heated glowing hot and if it is to be a crank shaft, for example, the first forge drives it into the mere rough form of the finished piece. Let no one think this is a little thing, for the pounding produces an indescribable roar and the earth all around is shaken.

The partly formed shaft is then heated once more and another hammer takes its turn. The particles of white-hot steel are driven together as closely as particles of glass in a piece of crystal. Then a third forge takes up the work and the steel takes more and more definitely the shape it will finally bear. Yet there are 24 operations still to come on this piece before it is finished.

After the forging the shaft is stacked away for six weeks to age and let the particles of steel shrink and adjust themselves to the tremendous pounding they have received in the forge.

Later it is rough ground and then machined several times and always by Studebaker workmen in Studebaker shops—until it is close to its final shape and size.

Then it is straightened, trued, inspected and made ready for the grinding which begins to give it the velvet smoothness of the finished shaft.

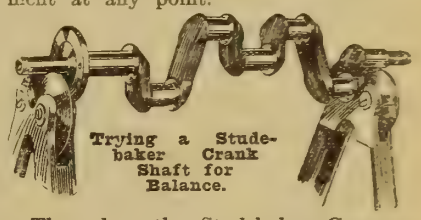
Right here it is again heat treated, baked for hours and pure carbon literally roasted into the surface of it, and when it comes out the surface is a high carbon steel, very hard, and so fine grained that it will wear glass smooth on its bearing surface.

Again it is heat treated to bring out the true temper of its nickel steel core, which must be tougher than the side of a battleship.

Even now nearly a dozen operations remain before it is ready.

These consist in grinding, truing straightening and inspecting.

The truing of the shaft to balance is almost as delicate an operation as the truing of a balance wheel of a watch. It is accomplished by placing the shaft on ball-bearing castors with knife edges and allowing it to swing free. If any part of the shaft is heavier than another it turns to the lowest point. This heavy part is ground away until at last it is finished true and even and when placed on the castors will center without movement at any point.



Trying a Studebaker Crank Shaft for Balance.

Thus does the Studebaker Corporation take the most minute care that every part in Studebaker cars is true and right. We balance crank shafts to avoid vibration, we straighten and true cam shafts to insure correct timing of the valves within one one-hundredth of a second and every part of Studebaker cars bear the same intense scrutiny and skillful watchfulness. Better cars cannot be built.

Yet such are the economies of our immense and thoro going equipment that Studebaker automobiles are far and away the biggest values the world has ever seen.

In the next issue this heart-to-heart Studebaker story will be continued in the same way, going further into the manufacture of Studebaker cars. We hope you will be looking for it.

The limits of space have not permitted us to go into many other interesting points of iron casting, steel stamping, etc., but we have told much more about these things in what we call the Studebaker Proof Book—a book designed to prove the quality of the Studebaker cars. Whatever your automobile preference, you ought to have this book. It is free—send for it on the coupon below.

THREE GREAT CARS.

Studebaker "25" Touring Car, $885.
Five passenger—Gas starter.

Studebaker "35" Touring Car, $1,290.
Six passenger electric lights, electric self-starter.

Studebaker "Six" Touring Car, $1,550.
Six passenger—electric lights, electric self-starter.

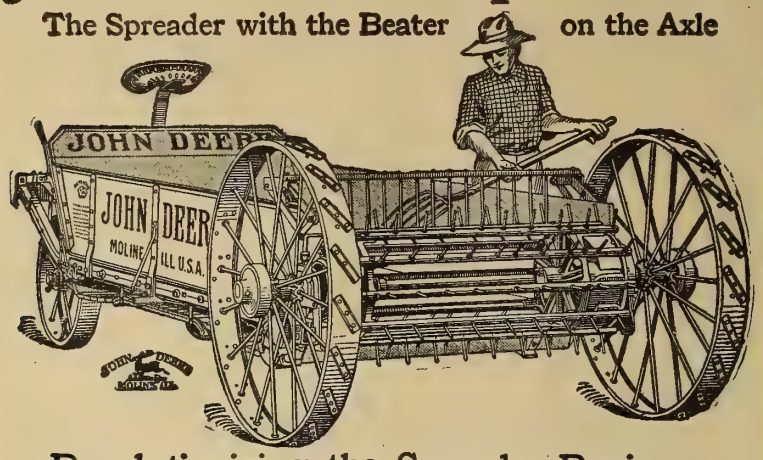
All prices; completely equipped f. o. b Detroit.

The Studebaker Corporation, Detroit, Mich.

TEAR OFF HERE
THE STUDEBAKER CORPORATION, Detroit, Mich.
I am interested. Please send me Studebaker proof book.
Name .....
Address .....

John Deere Spreader

The Spreader with the Beater on the Axle



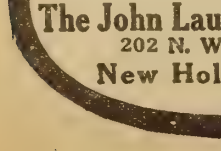
Revolutionizing the Spreader Business

Simplest and Strongest Spreader

On the John Deere Spreader, the Spreader with the Beater on the Axle, two hundred working parts that continually give trouble, are done away with. This spreader is so simple and strong that it does not get out of order. It has no clutches, no chains, no adjustments.

The John Deere Spreader is the greatest improvement in spreaders since their invention. It is as much in advance of ordinary spreaders as the self-binder was over the old reaper.

The Beater on the Axle


The Beater on the Axle

Mounting the beater on the axle makes the John Deere Spreader possible. This feature is fully patented. You can not get it on any other spreader. The beater on the axle does away with all chains and clutches. It puts the strain and stress of spreading on the main axle—where it belongs—not on the sides of the box or the frame of the spreader.

Mounting the beater on the axle makes the John Deere Spreader easy to load—low down.

Only "Hip-High"

Easy to Load

Sides of the John Deere Spreaders are only "hip-high." The first three feet you lift a fork of manure are easiest of all. From there on to the top of the ordinary spreader is hard work.

You lift manure only three feet with the John Deere Spreader. You always see into the spreader, just where each forkful is needed. Wheels do not interfere with loading.

Few Parts

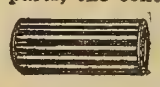
There are no clutches to get out of order, no chains to give trouble, and no adjustments to be made on the John Deere Spreader. On old style spreaders, ten to twenty adjustments are necessary before they will work at all. Any one of these, wrongly made, might put the spreader out of business.

Out of Gear

To start spreading with a John Deere Spreader, move the lever at the driver's right back until the finger or dog meets the large stop at the rear of the machine—there is no clutch.

The John Deere Spreader does not get out of order. It is always ready for use.

Roller Bearings


Roller Bearing

Roller bearings, few working parts, the center of the load comparatively near the team and the weight distributed over four wheels, make the John Deere Spreader light draft. There are four sets of roller bearings, two between the main axle and the beater, and two in the front wheels.

Bridge-Like Construction

Built Like a Steel Bridge

The substantial steel frame on John Deere Spreaders has high-carbon structural steel side sills. Like modern railway bridges it is built on the best known principles of steel construction.

It is securely bolted, insuring rigidity and perfect alignment, even after years of use.

Valuable Spreader Book Free—Get this book at once. It contains reasons for using manure—how to apply it to the land, how to store it, and a description of the John Deere Spreader, the Spreader with the Beater on the Axle. Ask us for this book as Package No. Y 27

John Deere Plow Co., Moline, Illinois

Must Suit You

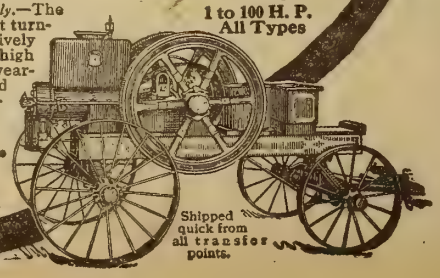
Satisfaction Guaranteed—no catches nor technicalities in our guarantee. Your engine must satisfy *you* or you don't keep it. "Your good will means our success." That's the principal that built our business.

LAUSON FROST KING

Gasoline Engines

have the new Lauson Gear-Driven Magneto, which eliminates all batteries. Built into the engine—won't wear out. Throws a big, hot spark that never weakens. *Starts Easily.*—The Frost King starts on the magneto without turning over. Requires no cranking. Positively frost proof. Low fuel consumption—high efficiency. Case-hardened and ground wearing parts practically eliminates wear and breakage. *Write for catalog* stating power required and name of Lauson dealer.

1 to 100 H. P. All Types


Shipped quick from all transfer points.

The John Lauson Mfg. Co.
202 N. W. Street,
New Holstein, Wis.

4

FARM FURROWS

TURNED BY A PRACTICAL FARMER

A small gasoline engine is a pretty good hired man. He will turn the fanning mill and the grindstone, pump water when the wind is taking a vacation and is not at all too proud to run the washing machine and clothes wringer. Turning the sausage grinder is play to him and all he asks for his work is his board and he never eats excepts when he is working, but it must be admitted that he is rather particular about his food.

Cattle can live a long time without salt, but if they are to do their best it should be within their reach at all times.

It is being found that unless corn is husked rather clean, it will sometimes spoil in the crib just beneath the inlet of the crib elevator. These elevators are a great thing to save labor in unloading corn, but too much trash in the corn falls in one place and the corn in that spot is quite likely to mold. The remedy is to husk the corn cleaner.

There are a whole lot of folks trying to get rich these days by speculation. Somehow, I find myself believing that it is this class of people who are making so much fuss about getting cheaper credit, likewise more of it. The man who is honest and wishes credit for a sound business investment, can get it cheap, now.

A market report of forty years ago tells of prairie chickens selling for ten cents apiece; corn twenty-three cents a bushel and oats nineteen. Beef and pork were low in proportion. The high cost of living didn't cut much figure then, but who would be willing to go back to those old low prices? City folks now realize that when farmers are getting low prices for their produce all business suffers accordingly.

One or two "figure four" traps kept set in the orchard and around the truck patches will do wonders towards keeping the rabbit population in check. A dozen rabbits will do a great amount of injury around the truck patches during the course of the winter and spring.

Every farmer feeding stock in any amounts should arm himself with a good set of scales. Stock buyers do not try to short-weigh the stock that comes from the farm where scales tell the story. This protection is worth a good deal, sometimes, no doubt.

The way parcel post has started off is a surprise to all. Printing presses can hardly keep up the supply of stamps. As use still further perfects it it will become even more popular. It is being predicted that in ten years there will be no express companies. Vividly remembering the charge once made me by an express company for carrying a small repair casting—twice more than the company making the repair charged for it—I shall not weep if there are no express companies left as soon as next year.

A stalk cutter is a hard critter to ride anyhow, but if the ground is frozen a little it is all the more so; likewise, it is as much again harder on the cutter. A good way to "booger" up a stalk cutter is to use it when there is frost in the ground.

February is a short and sometimes an ugly month. The weather is usually such that one is glad it is the shortest month in the year. The second day of February, according to the old line of rhyme, marks the middle of the dry feeding season. Will you have half your feed left on that day?

Some folks' idea of co-operation is to make the other fellow provide for them.

The hired man who can haul manure in which there is a liberal amount of cornstalks without resorting to the language of the trooper has been properly trained at home. If the corn fodder is shredded there is no extra work in hauling manure and the bedding problem is solved.

Kerosene and gasoline make splendid fuel for summer cooking and where wood must be bought and hauled a long distance the cost is usually in their favor. The gasoline engine and circle saw would have saved a whole lot of hard work in cutting up wood if they had come into common use a few years sooner.

There is no risk in running in debt for tiling providing an outlet can be had and a decent job is done in digging the trenches and laying the tile. Many a man has made the mistake of buying more land when the money would have been better invested in draining the idle acres on the home farm.

The law that compels the township to pay the tuition of pupils that have finished the eighth grade if they wish to attend the city high schools will bring the high school to the country. If it does, let us hope that it will be a school that will train the boys and girls to see the real value of farm life.

Farmers are proverbially honest, but it would be rather awkward for some of them if they should be called upon to deal with the insurance adjuster and the assessor at the same time.

FARM CUSHMAN

The High Power Engine for All Farm Work

Take it wherever you have use for it—it weighs less than 200 pounds.

Catalog Free.

4 Full Horse Power

Pulls more than rated power. 4-cycle automatic throttle governor. Fuel consumed is proportioned to work—no waste. Easy to move and handle, easy speed change, fits in any place, simple, dependable. Up-to-date farmers are buying the Farm Cushman because it's an all-purpose engine suited to every power job, from turning the grindstone to operating the binder. Write for catalog showing what other farmers are doing. We build 6-8 and 20 h. p. specialty engines for heavier work. Get descriptive catalog. Don't buy till you see it.

CUSHMAN MOTOR WORKS
2029 N St., Lincoln, Neb.

New Heider Tractor

With All Latest Improvements

The economical, practical tractor for modern farming. Light in weight, strong and powerful, easy to operate. The real one-man tractor for belt or field work.

Special Heavy Duty Tractor Motor

Long stroke type. Large crank shaft, connecting rods and bearings. One-piece cam shaft. The Heider is the pioneer light-weight tractor and no experiment. Will do any kind of farm work more cheaply than horses.

GET OUR CATALOG FREE

Learn about the new Heider before you buy a tractor. Write
HEIDER MFG. CO.
270 Main St.
Carroll, Iowa

Corn Belt Mill

20 Days Free Trial

Grinds more ear corn or small grain, with less power, than any other mill. Doesn't warm the feed. Lathe-centered Burrs may be changed in three minutes. Try it 20 days free. Write to-day for booklet.

Spartan Mfg. Co. 28 Main St. Pontiac, Mich.

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

ing trees from being barked by rab-

Protecting Trees From Rabbits.

There are different ways of protect-

bits. But if one wishes to be sure of his trees, he doesn't wish to try any patent schemes, such as paints, applications etc. Window screen is a safe and sure protection. It should be wrapped loosely around the tree and secured with wire. Old screen will answer for the winter if it has no holes. While this protection should have been afforded during the entire winter yet if the trees have not been barked up to the present time it might be advisable to screen the young trees even yet. Nothing is more unsightly than a ragged orchard caused by having a percentage of the trees destroyed by rabbits at a time when the trees are tender.

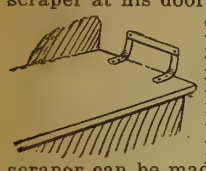
The Cob Fire Kindler.

Where corn cobs are plenty one has the material for a clean first-class fire kindler. Secure a short length of stiff wire and have one end pointed so as to force it easily, into the center of a corn cob. Then saturate the cob

with kerosene, and the kindler is ready. The cob can be burnt, and a clean new one used the next time. This leaves no dirty, oily, kindler laying around in the road, and the wire takes up practically no space.

A Scraper For The Door Step.

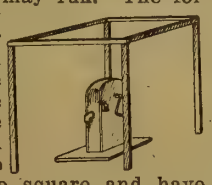
Every farmer should have a foot scraper at his door step. Here he can



clean the filth from his feet and save his wife a lot of hard work sweeping the dirt from the house that he has carried in. A scraper can be made for a nominal expense. Secure a piece of buggy or wagon tire. Have the blacksmith bend it into the desired shape and sharpen the upper edge. This can be secured to the step by means of screws or nails.

Putting a Shade Over the Well.

In order to keep the cistern from the hot rays of the sun and assure cool water in the summer time, it is a good plan to put a frame about the cistern over which vines may run. The following plan may be used: Set four posts one at each corner of the square about the cistern. These posts are seven feet above the ground. They are square and have 2x4 pieces running from top to top. Woven poultry wire is stretched about these posts, leaving the entrance way open. Wire is also stretched from the 2x4's on top. In this case grapevines were planted about the wire so that the vines may run over this in the summer time. Rambler roses or morning glories would answer the same purpose. Woodbine is also suitable for this purpose.



TURKEY RAISING.

I keep about ten or twelve hen-turkeys and two young toms. Two are not necessary I suppose, but when the hens are hatching the eggs the toms are company for one another. I give about twelve eggs to each hen turkey and at the same time set a chicken hen on eight or nine turkey eggs, giving all the poults to the turkey hen.

Feed about the same as little chicks the first few days only give more sparingly. Little poults do not need much to eat the first week and many are killed by overfeeding. When about a week old I let the hen turkey have free range during the day and teach them to come to the buildings for their milk drink.

After the first of June the turkeys will pick up most of their living on free range until fall when they will have to be fed some grain.

Mrs. C. F. M.

PATENTS Watson E. Coleman, Patent Lawyer, Washington, D.C. Advice and books free. Rates reasonable. Highest references. Best services.

Save That Hard Work

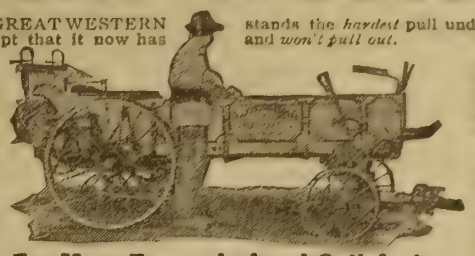
Save Your Horses, too, and Your Money

Get the machine that operates with least effort—that gives no trouble—that makes more profit—that is so strong, so simple, so durable, as to make it the one *perfect* spreader.

You take no chances in buying the GREAT WESTERN. Over 100,000 farmers have used them during the last twelve years and swear by the *old reliable, time-tried*

Great Western

Here is the *proved* GREAT WESTERN of other years, except that it now has roller bearings and is made low down—waist high—*just right*—with safe clearance underneath for rough ground, obstructions and top dress on growing corn. *Wheels* are *under the load*—wheel base is short; result, *lightest* possible *draft*—easy pull—a saving on horses and harness. Double heavy oak bolster, 16-inch malleable fifth wheel; stands the *hardest* pull under worst conditions, and *won't pull out.*



Simplest Drive: Direct chain drive—no concealed gears, everything in plain sight; no reversing devices; engine mechanism is stopped while driving to or from field. Turns in its own length. Built for perfect permanent service—economical operation—lifetime durability. Buy your *last* spreader *now* by making it a **Great Western.**

Far More Economical and Satisfactory

Get Our New Spreader Book.

Things We Won't Do

We won't build them light or flimsy or hang the load between the wheels just to save a few inches in height.
We won't use a narrow front truck, because you couldn't top dress.
We won't cheapen the frame by using light construction with only two sets of rollers, or a half-apron, or any of the cheaper means.
We won't build a spreader in a cheap way just to sell, regardless of satisfaction in use.
We want you satisfied or no sale, and you will be with the GREAT WESTERN.

Things We Do

We build them right.
We put the wheels under the load so as to make light draft.
We use a heavy, double front bolster and heavy malleable fifth wheel, so you can't pull the front out.
We make a short wheel base so you can turn anywhere.
We use roller bearings throughout and an endless roller bearing apron with 10 rollers.
We build the "World's Best" Spreader to give you long service and the best work at the lowest possible cost. Ask for new spreader book, it's free.

Rock Island Plow Co., 182B Second Ave., Rock Island, Ill.

A GUARANTEE OF BETTER LUMBER

A FREE ROUND TRIP TO DUBUQUE — SEE WHAT YOU BUY

SAVE MONEY ON YOUR LUMBER

When you buy lumber, BUY THE BEST and build to LAST. Poor lumber is dear at any price.

To get the very **highest quality** and **low cost BOTH, buy from us direct.**

You will get better lumber in every item than any local yard can furnish you; because we make our own lumber and grade it properly; because your order is selected from the most complete assortment in the Middle West, consisting of over 20,000,000 ft. of the best, brightest, new lumber ever sawed. You always get exactly what you want and just what you should have for the work in hand, and everything of **the highest grade.** You will not be obliged to take seconds or substitutes which are supposed to be "just as good."

OUR GUARANTEE

All our lumber is graded under the Manufacturer's Association rules and every bit is guaranteed to be up to grade or better. Every shipment we make is sent subject to inspection, and if not found up to this guarantee, the shipment may be returned, at our expense, and your money will be refunded.

R.R. TICKET

When you buy from us, you buy direct from the manufacturer at mill prices.

You are your own lumber dealer. All the middlemen's profits go into your own pockets. You secure better lumber and at a saving in price.

If you want a car load, come to Dubuque. We want an opportunity to show you our stock and convince you that we are in position to serve you to advantage. If you buy, *will gladly refund your railroad fare both ways* and you have an opportunity to select your own order personally. *This is a tremendous advantage* to you, but if you cannot come, order by mail. *No matter how small* your order may be, we can save you money and our absolute guarantee of quality insures your satisfaction on every item or you can return it and get your money back.

We've been in business nearly thirty years and have thousands of pleased customers. We treat you right and would ask you to have your banker look us up.

Lumber prices are going up and if you expect to build in the near future, it will pay you to order now before the advance. Send us a list of the items you want and we will gladly quote you.

Ask for our price list. Act quickly. Write us today.

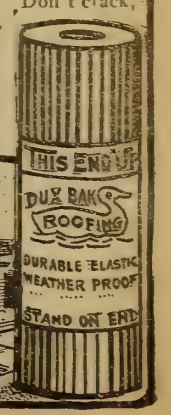
Peter J. Seippel Lumber Co.,
204 South Locust Street.
DUBUQUE, IOWA.

DUX-BAK ROOFING Is as good as our Lumber.

Sells for 50% to 75% less than other kinds not anywhere near as good. Made of the best of materials. Don't crack, run or peel. Water-proof and fire resisting. Easy to lay.

LOOK AT THESE PRICES.

1 ply	$1.15 per sq.	shipping weight	35 lb.
2 ply	$1.40 per sq.	" "	45 lb.
3 ply	$1.70 per sq.	" "	55 lb.



CURRENT EVENTS

THE Page vocational education bill, authorizing a maximum appropriation of more than $14,000,000 for agricultural and trade educational work, was passed by the senate during the past week. The bill now goes to the house, which has already passed the Lever bill with a smaller appropriation. The Page bill would establish courses of instruction in trades and industries, house economics and agriculture in the various public schools of secondary grade, provide for state agricultural schools, testing and plant breeding stations, the education of teachers and general extension work. The subject is one in which the late Senator Dolliver, of Iowa, was greatly interested and the bill introduced by Senator Page, of Vermont, follows out Senator Dolliver's ideas. It is considered highly probable that in conference the two houses will hit upon a happy medium between the Lever bill (with its appropriation of $3,500,000, providing for the establishment of extension departments in the state agricultural colleges, through which instruction in agriculture and home economics would be carried into the homes of the farmers) and the Page bill (with its appropriation of $14,000,000 for the most extensive vocational campaign ever carried on in this country). The subject is one of the most important now being considered by congress, and farmers who are desirous of the passage of the Page bill by the lower house should lose no time in writing to their representatives in congress.

NO SOONER had the Turkish government given in and decided to accept the Balkan peace terms, even to the extent of surrendering the fortress of Adrianople, than the situation was complicated by the uprising of the Turkish people against the government and the assassination of the Turkish minister of war. Constantinople is now in the hands of the Young Turks, who are bitterly opposed to the surrender of Adrianople and propose to continue the war to the bitter end rather than accept the present peace terms. Relying on the Turk's acceptance of their terms the Balkan states had begun to withdraw their troops, when the word came of the revolution in Constantinople. The Balkan peace delegates are now planning to quit London, with every prospect of war being resumed within a few days. Unless the big powers can prevail upon the new ministers in charge of the sultan's government and show them that further opposition is worse than useless it looks now as though thousands of more lives would be sacrificed and the crescent would struggle longer against the cross. The Balkans claim to be in better condition than ever to attack the Turks and have the moral support of previous decisive victories and the sympathy of practically the entire civilized world.

GEN. DANIEL E. SICKLES, the most noted of the surviving Union generals of the civil war, has been having more than his share of financial troubles recently. Not only is his New York home heavily mortgaged, while many of his personal effects have been seized for debts, but last week the charge was filed against him that he is about $25,000 short in his accounts as treasurer of the state monument commission. There was a likelihood for several days that the old warrior (he is now almost eighty years of age) would be obliged to go to jail, but a friendly sheriff made it possible for him to secure bail and thus be saved this humiliation. The matter was made dramatic by the action of Mrs. James Longstreet, widow of the famous confederate general whom General Sickles had opposed on the field of battle. Mrs. Longstreet proposed to raise the amount necessary to save General Sickles from arrest by contributions from old confederate soldiers who had fought Sickles and his union men in many a bloody battle. The offer was not

What Time Is It —by this Watch?

Is it five minutes fast or five minutes slow, or exactly correct? Can you rely on it? Does it remind you of the watch you now carry?

Now see if you think you could rely on a watch that is made like this—

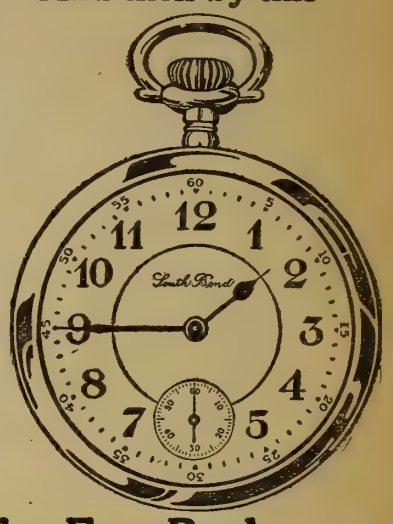
The South Bend Watch is six months in the making, the cutting, finishing and assembling of the parts. 411 inspections are given these operations. More than 60 men work on each watch.

When the watch is assembled it is run in a test of 700 hours. We keep a watch sometimes six months longer than it spends in the making to make it attain our standard. Some "South Bends" stay a year in the factory. But when they come out they are right.

That's why "South Bend" jewelers can so easily regulate South Bend Watches to your personality. It is this personal regulation that makes good watches keep perfect time. It's the *lack* of it that prevents others, even good watches, from doing it.

Buy a watch of one of these men. Let him "fit" you with a South Bend Watch. *You'll have a watch to rely on*, a watch that will keep correct time for *years*.

And then by this—



Write for Free Book

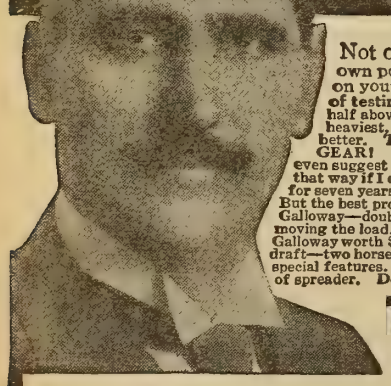
Our book, "How Good Watches Are Made," tells all about watches—things you should know. Just say on a post card, "Send me your book."

THE SOUTH BEND WATCH COMPANY
2 Ironton Street, South Bend, Indiana

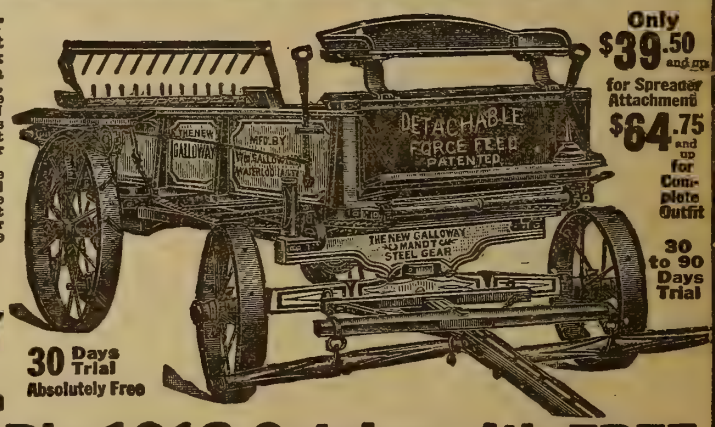
"The South Bend" Watch

(126)

Let Me Ship YOU This 1913 Spreader FREE



Not one cent down. No bank deposit. Keep your money in your own pocket. I just want you to try my new Spreader, that's all. Try it right on your own farm for a whole month free. Test it out as you wouldn't think of testing any other spreader in the world. Pile on the manure a foot and a half above the box. Put on all she'll hold. Take the fine, powdered stuff or the toughest, heaviest, tramped-down, slough-hay kind from the calf yard. If it's frozen, so much the better. Take it into your field, whip your team to a gallop and SLAM IT IN GEAR! Say, I know that's an awful test. So do you! A test no other manufacturer dares even suggest to you. But do you think for a minute I'd ship you a spreader and let you abuse it that way if I didn't know it would make good? I know what I'm doing. I've made the same offer for seven years, and the Galloway today is better than ever. 40,000 farmers have proved it. But the best proof of all is the machine itself—eleven patented features—all exclusive with the Galloway—double drive chains furnishing power from both wheels alike direct to the beater and moving the load. The only endless apron force feed, roller bearing feed spreader built. Makes the Galloway worth $25.00 more than any other spreader sold today. Low down—easy to load—light draft—two horses will handle it easily. Pull between wheels entirely on the reach—and many other special features. I can't tell them all—just get my catalog before you buy any other make or style of spreader. Do it today.



Only $39.50 and up for Spreader Attachment

$64.75 and up for Complete Outfit

30 to 90 Days Trial

30 Days Trial Absolutely Free

THE ONLY WAY IS THE GALLOWAY

Selling Direct from Factory to Farm

You know Galloway. You know his fair, square, straight-from-the-shoulder way of doing business direct with the farmer from his factories and saving you the 30% to 50% middleman's profit. No man in the country ever gave the farmers as square a deal as Bill Galloway.

Now, I'm out to break my own records.

I know I've done it, but I'm going to leave it to you. If you can figure out a fairer proposition than I'm making for 1913, I wish you'd write and tell me—I can't.

Write Me—Get My Special 1913 Proposition

Here comes the best news of all. I am going to help you get your spreader partly or even entirely free. No canvassing—no soliciting. When I say free, I mean FREE. I've been four years working out this plan, and say, it's the biggest, fairest and most liberal co-operative offer ever made.

Now, I want you to get my offer right away. I don't want you to wait a minute. I have a special reason for wanting you to hurry and I'll tell you when you write me.

Here's the Proof:

Gentlemen: My Galloway Spreader was ordered about the first of February, 1909, and is a 50-bu. machine. I have run over a thousand loads of manure through it. Perfectly satisfied.—W. G. SUTFIN, Dundee, Ill.

Sir: My Galloway Spreader works as fine as silk, and I have the $30 left that it would have cost me if I had bought a trust spreader.—S. E. TRENKS, Geddes, S. D.

Dear Sir: The spreader I bought of you is a dandy. I have hauled 150 loads with it without the least trouble and with two small horses not weighing over 1,100 pounds each. I use the 60-bu. size and I would advise anyone in need of a spreader to try the Galloway and see for themselves. It is the lightest running and the strongest in the market today. It is O. K.—GER. McCARTHY, Monona, Iowa.

Now Get My Big 1913 Catalog—It's FREE

Don't let this paper get out of your hands until you have sent for Galloway's wonderful big illustrated free spreader catalog. Find out how you can get a Galloway Spreader shipped right to your farm for 30 days' free test. And above all, get posted on my SPECIAL LIMITED OFFER. I want you to get that offer sure. Not another like it. Send me the coupon or letter or postal today.

"A Streak of Gold"

The only book of its kind in the world. It tells you just the practical facts every man ought to know about fertilizing. Tells how to handle manure, how to treat it, keep it and use it to the best possible advantage. Worth a hundred dollars to any business farmer. Regular price one dollar. Free to you when you write me.

FREE!

FREE COUPON

WILLIAM GALLOWAY, President,
THE WILLIAM GALLOWAY CO.
109 Galloway Station, Waterloo, Iowa

I want to know more about that 1913 offer of yours. Tell me all about it and send me your latest manure spreader book and your valuable book of information, "A Streak of Gold," free.

Name.....

Town.....

County.....

R. F. D.....State.....

We will also send you FREE our new 5-color, big, 144-page general merchandising book—giving 1,000 or more bargains in machinery, buggies, harness, furniture, rugs, draperies, etc.; everything you need for the home.

William Galloway, Pres., WILLIAM GALLOWAY COMPANY, 109 Galloway Station, Waterloo, Iowa

49 Remember, we carry spreaders in stock at Chicago, Kansas City, [illegible] Bluffs, Minneapolis and Winnipeg.

accepted, but goes a long way toward showing how sectional lines have disappeared and the North and South have come together in mutual respect. General Sickles was a member of congress for several years, was secretary of the American legation at London and for four years was United States minister to Spain. He took a part with distinction in the battle of Fredericksburg and was conspicuous for his ability and bravery at the battles of Chancellorsville and Gettysburg, losing a leg in the latter engagement. When his financial troubles became known a speech was made in his behalf in congress, the speaker declaring that England honored her war heroes by life pensions, but the United States proposes to disgrace one of her last surviving heroes by arrest. General Sickles has led a strenuous life and now as he nears the end of his days finds himself in such serious trouble as makes his life anything but happy and peaceful.

GRAVEL ROADS.

To the Editor of The Homestead:

Gravel roads if well built will last six to nine years. It suffers most when not needed, namely, in very dry weather in summer or when frozen hard in open winter.

In the first place the road bed should be well made but not too rounded, as this induces waste. Where seepy spots occur a natural drain should be built crosswise of the road, made of coarse rock to let the water out to the side of the road. Gravel should be at least eight inches deep in the center and wide enough for two teams to pass.

We once helped to build a two-mile gravel road in Missouri which was built by the tax rebate system twenty years ago. It worked hardship on our district in this way. Our district had a state road running north through the center. To the north of us two road districts met on our center line running north and these two districts united with us. We built to the beginning of their near end of road so it came to pass that they got the full benefit of their work while we only got part of it. Most of ou people had no use for it as it was out of the way. To make matters worse the road bosses of the other two districts drew their full quote of road money at the expence of our district. This left our road boss the next year with 65 cents of road money and the poll tax to keep the district in order and by the time all this land tax rebate had been used our district was in very bad shape.Our money nearly all went to other districts and it is not just for a few to have a good road at the expense of the others.

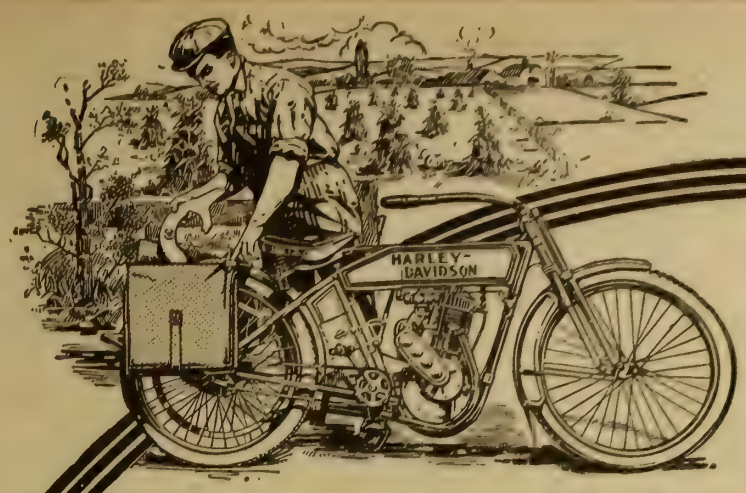
When a boy thirty-one to thirty-seven years ago we did a good deal of gravel hauling and a few weeks ago I was surprised to go back and find how those roads changed. Where we helped build a good gravel road thirty-two years ago they have been hauling creek gravel every six to eight years and in this way they have a good road. They have the gravel near at hand and with plenty of loaders a team averages one load an hour.

I think if the law required four inch tires and then the doubletree and neckyoke were lengthened out to give the team more liberty,the roads would be much better. If we can't go with the four inch we ought to stay off the road or use the spring wagon to get the necessaries of life. There is no excuse generally for cutting up the roads except about the first of March.

Our country roads will never be graveled, for long before we get over them we will have to start over again. Some people think gravel is ever lasting but that is a sad mistake. Even now we don,t think of saving our surface dirt and do not employ the motto, "a stich in time saves nine,"our roads must wait till the working time comes and go all to pieces if the weather is bad in that time.

Hudrain Co. Mo. John Klingele.

I notice the banks, seed stores and some other places of business are not running seed corn testers for their patrons as they did last year. There's a reason.



To Town and Back for a Cent

ALTHOUGH the Harley-Davidson will travel about ten miles for a cent that is one of its smaller advantages.

It will place the country for miles around at your and your children's command. It is the best "keep the boy on the farm" factor ever produced. It never tires, costs nothing when idle, and is always ready in case of emergency. It is also a great horse saver.

The sturdy construction of the

HARLEY-DAVIDSON

together with its reliability, economy and the fact that it is the only motorcycle made with the Ful-Floteing Seat (a device that does away with all jar and vibration due to rough roads) and its other exclusive features make it the ideal machine for country use.

Adopted for carrying United States Mail by 3700 carriers. Adopted for use in nine different government departments.

Call on the nearest Harley-Davidson dealer for demonstration or send for literature.

HARLEY-DAVIDSON MOTOR CO.

Producers of High Grade Motorcycles for eleven years.

676 A STREET **MILWAUKEE, WIS.**

YOUR NEIGHBOR'S HOGS ARE DYING

YOURS MAY BE NEXT!

Nearly $50,000,000.00 of cold hard cash for hogs which should be in the pockets of the farmers, was lost last year, because hog owners would not take the simplest precautions to protect their stock.

Worms cause 90% of all hog losses. Even the dreaded cholera attacks herds only after worms have sapped their vitality and weakened their power to resist disease. All hogs have worms, from the time they are a few weeks old. **Yours have them.**

Columbian Stock Powders will positively destroy all worms and dispel them in twelve hours after feeding. They will stop your hog losses. The oldest stock powders on the market; the leader for 25 years. The only powders that never fail to expel all the worms.

COLUMBIAN STOCK POWDERS are strictly a medicine—not a food. They make your hogs thrifty, tone up the system, and prevent **Cholera, Thumps, Scours, Coughing, Fevers, etc.** They aid digestion and make feed go 25% farther. Endorsed by prominent stockmen everywhere.

ABSOLUTELY NECESSARY FOR BROOD SOWS. *Keeps them in good condition and insures strong, healthy litters.* Makes the milk flow more abundant and purer, and eliminates the feverished condition that results in unhealthy, runty pigs. You must put your sows in condition **right now** to get the most thrifty pigs.

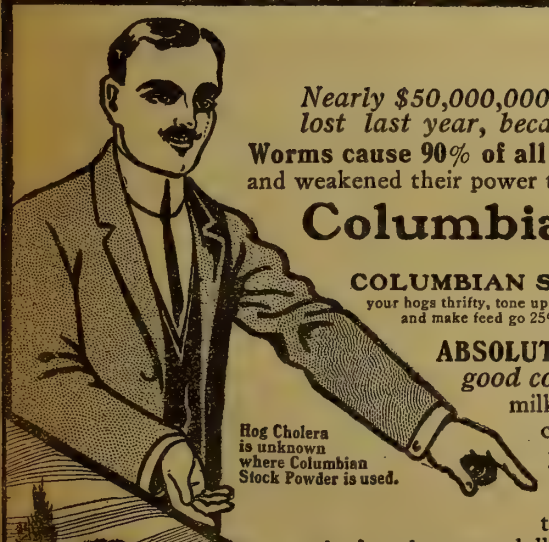
WE HAVE A SPECIAL FREE OFFER to make you at this time which we have never before made. You cannot afford to miss it as it means dollars to you if taken advantage of **at once.** *You can prove the value of* **Columbian Stock Powders 90 days before you pay a cent.**

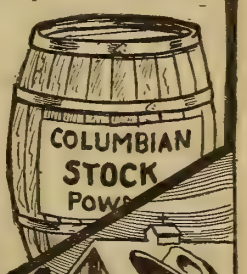
Write us today for full information and tell us how many hogs you have.

COLUMBIAN HOG & CATTLE POWDER CO., 1450 Genesee Street. KANSAS CITY. MO.

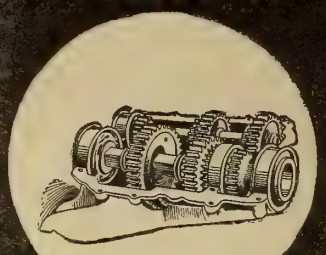
AGENTS WANTED

We have an unusual money-making proposition to offer you if you are a man of good standing and good reputation in your community. The pay is large and sure and the work is not hard. *Write us for particulars giving references. It will pay you to write to-day.*

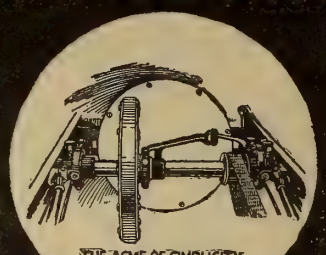




$75,000,000 WASTED ANNUALLY



THE COMPLICATED GEAR TRANSMISSION



THE ACME OF SIMPLICITY
THE LAMBERT PATENTED FRICTION TRANSMISSION

$375,000 LOST DAILY

According to Motor Age Statistics
Will you help pay this loss or use a

LAMBERT

Patented Friction Drive Car and escape it?

More than half the troubles, accidents, break-downs and expensive delays and repair bills in the operation of motor cars result from the use of gear transmissions.

The Lambert Friction Drive frees you from this tremendous burden. It is of the simplest construction, employs but one-third as many parts as are used on gear drive cars and is practically fool-proof. No mechanical skill is required in its operation and it delivers 20 per cent more of the power generated by the motor directly to the rear wheels than is possible with bevel gears.

Climbs the steepest hills and travels through snow, mud and sand where no gear drive car can attempt to go.

Our "Automobile Catechism" and "Motor Car Anatomy" explains these facts in an interesting way and enables the intending buyer to select his car with intelligent care. Send for them right now.

Five Models of Touring Cars and Roadsters $800-$1450

THE
Buckeye Manufacturing Company
314-324 Columbus Avenue
ANDERS INDIANA

Land Values Increased 200 Percent

in Mississippi and Louisiana. It is the land of opportunity today. And you are not compelled to accept anyone's word for it. Statistics show that in ten years the corn crop has increased from 49 millions to 124 million bushels. In the same period the money on deposit in the banks in these states increased from 51 millions to 145 million dollars.

Go South, Young Man

They raise 2 to 4 crops a year down there. You can work out of doors the year 'round, and land will never be as cheap as it is today.

Write for booklet giving full and complete information about conditions and opportunities.

J. C. CLAIR, Immigration Commissioner, I. C. R. R.
Room 623 Central Station, Illinois Central R. R. CHICAGO, ILL.

Iowa Beef Producers Meet.

CROPS marketed on the hoof as beef cattle bring larger profits than when sold directly as grain and hay. That was the first reason why more beef cattle should be grown in Iowa, urged by the speakers at the annual meeting of the Iowa Beef Producers' Association held at Des Moines, January 29th. The next big factor in favor of beef production for Iowa farms, rather than grain farming was that less fertility is sold from the farm when crops are marketed as live stock products instead of being sold at the elevator. There was a $3,000,000,000 corn crop produced in the United States last year and Iowa grew more than her share of this, but there was less beef produced in Iowa in 1912 than in 1911. The supply of live stock at the beginning of 1913 is less than at the start of 1912, according to Pres. Charles Escher, Jr., in his address at the evening meeting. There is no danger of overproduction of beef in Iowa. It will require at least seven years for the United States to get back to the normal supply of beef cattle at the very least, and by that time the population will have increased another 10,000,000.

Live stock farming was held up as the highest type of agriculture as well as the best paying one. Half of the farms of Iowa should be producing beef either as a straight baby beef proposition or in connection with some milking. It is President Escher's opinion that a car load of baby beeves from each of 100,000 Iowa farms each year would not mean overproduction for the state. Pacific coast markets are taking and will continue to take a large share of western beef as fast as it is produced. Eastern markets must be supplied largely from the corn-belt states. Iowa should produce at least her share of this. What Iowa needs to increase profits in farming to make farm life more attractive, farmers more contented and to keep up the fertility of the Iowa farm is more of the "old cow."

Professor Kennedy pointed out that from both the steer feeders' and the consumers' standpoint the beef cattle situation is alarming. With a total beef cattle supply estimated at about 35,000,000 head against better than 50,000,000 twelve years ago, accompanied by a 20,000,000 increase in population in the United States it is small wonder that feeding cattle and beef steak are both high. Two methods of beef production were outlined by Professor Kennedy, who talked on "Producing Beef on $250 Land." First was the straight baby beef method, where the calves are allowed to follow their mothers with some grain after the first two months are past. These calves are pushed as rapidly as possible and sold when weighing around 1,000 to 1,100 pounds at sixteen to eighteen months of age. The other method is where beef and milk are produced together from cows of some ability in both directions. The cows are milked and the calves are grown to yearlings either on skim milk or possibly two calves to the cow. The finishing process takes longer and the calves do not reach market till from twenty-four to thirty months of age, weighing around 1,200 pounds or better. Either method was shown to be sufficiently profitable to net 6 per cent interest on $250 land if present prices could be secured for the beef. Nor does Professor Kennedy look for lower prices.

Rex Beresford, specialist for the association, corroborated the statements of Professor Kennedy by showing that twenty-four Iowa farmers had produced baby beef during the last year at a profit on high-priced Iowa land and on high-priced feeds. Eight hundred and sixteen calves were grown by these men to 830 pounds weight at 14.5 months and marketed weighing 832 pounds at $8.30 per hundredweight or $69 a head. The average cost of producing these calves on last year's high-priced feeds was $62, leaving a profit of $7 a head. It was also shown that live stock farms are on the whole more profitable than grain farms and that the average stock farm is more productive than is the farm devoted entirely to grain production. The average yields of ten beef cattle farms in Iowa were compared with the yields for the same years on grain farms in the same neighborhoods. It was found that for a five-year period the cattle farms averaged fourteen bushels more corn per acre than did the grain farms. Other crop yields were very nearly in proportion.

A short talk on the importance of the beef cattle industry and of the organization of beef cattle breeders in the state was made by President Pearson, of the agricultural college. At the afternoon session the following officers were elected to serve for the coming year:

President, Charles Escher, Jr., Botna, Iowa; secretary, George H. Burge, Mt. Vernon, Iowa; treasurer, C. H. Hechtner, Chariton, Iowa; vice-president,

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Cyrus A. Tow, Norway, Iowa; membership secretary, A. R. Leffler, Bentonsport, Iowa; board of directors—W. B. Seeley, Mt. Pleasant, Iowa; Fred McCulloch, Hartwick, Iowa; Ira McVicker, Eagle Grove, Iowa; D. McArthur, Mason City, Iowa; W. W. Vaughn, Marion, Iowa; Ralph Sherman, Grinnell, Iowa; John Shambaugh, Booneville, Iowa; C. W. Huntley, Chariton, Iowa; C. W. Hunt, Logan, Iowa; Charles Russell, Carroll, Iowa; R. W. Cassady, Whiting, Iowa.

An executive board made up of the president and secretary of the association together with the dean of agriculture and the head of the animal husbandry department at the agricultural college, and the secretary of the state board of agriculture directs the work of the association through the representative hired for the purpose. The plans of the association for the next year include the publication of bulletins, the collection of statistics and information on the production of beef in Iowa, institute work and the running of special trains advocating the production of beef, such as were run last year on the Burlington and Northwestern roads.

PLOWING AROUND FRUIT TREES.

To the Editor

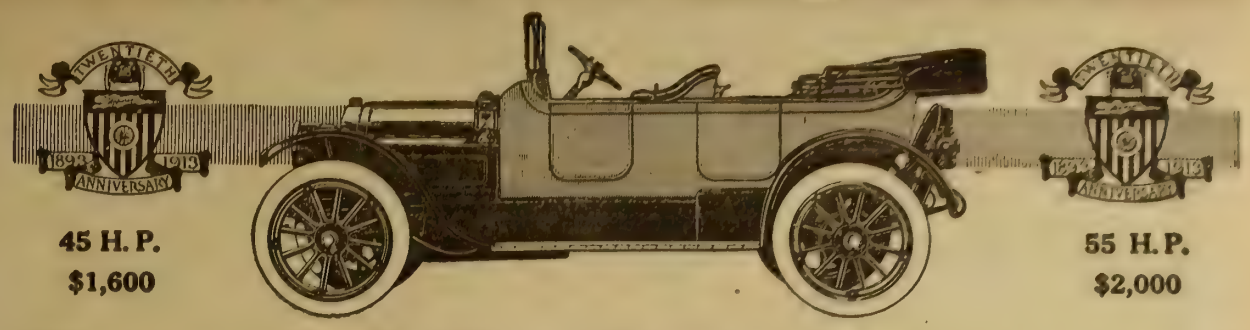
The usual way of plowing around fruit trees is more injurious to the trees than not plowing at all, for it is ruinous to their growth and productiveness and cuts off nearly all of the important roots. These roots that grow close to the surface of the soil are the great absorbents of nourishment, whether they are the roots of trees, small plants or shrubs that yield fruit. This is a common habit of trees and plants to throw out a system of roots near the surface of the soil, where they will absorb and readily apropriate the fertilizing elements with which they come in contact, to the purpose or developing the stems, or the fruit of the growing plant.

If we will examine the surface soil around any tree where the ground has not been plowed or disturbed for a number of years, we will find that a system of roots has been formed close to the surface of the soil. If these roots are all cut off another set will soon be formed in their place, or if the soil is worked up to the trees and left there a set of roots will start about so far from the surface, then if more dirt is worked around the tree another set of surface roots will start out except in the case of extremely old trees. We have worked soil up around grape vines, and in one year a new set of surface roots have formed that would measure more than two feet long.

Some trees that are set out too deep will not thrive for a few years, or until they have put out another set of feeding roots, yet as soon as a new system of roots are formed they will make a very rapid growth and produce good crops of fruit. These facts are enough to prove that roots close to the surface are essential to the growth of trees and plants, or nature would not be so prompt to reproduce a new set as soon as one set is injured. This system of surface roots is not confined to trees alone, as the stems of corn, wheat and other grain, if the seed be buried deep, will immediately send out a system of surface roots, and if the soil be piled around the stems before the blossoms appear, another set of surface roots will be sent out just below the surface of the soil.

From these facts we can see at once that if we plow an orchard that has been in sod for a number of years we must plow very shallow for a number of feet away from the tree row. With a plow properly set and a good team, it is not a difficult piece of work to plow an orchard and when up within a few feet from the trees the plow should be adjusted so that it will cut off about two inches from the top of the soil and not disturb the surface roots, but when an orchard is plowed every year or two from the time it is set out the surface roots will be kept down to a depth where they will not be injured by a plow.

Trees or vines of all kinds will make a better growth if the surface roots are not disturbed when the soil is plowed, and if an old orchard is to be plowed at all great caution should be taken not to plow too closely



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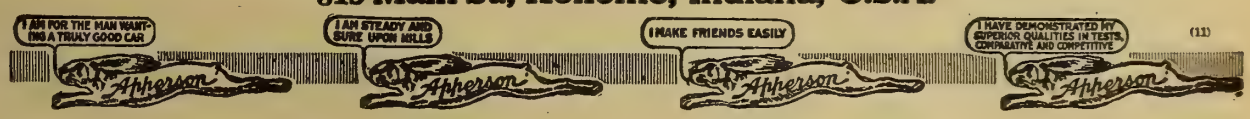

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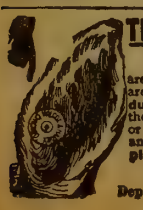

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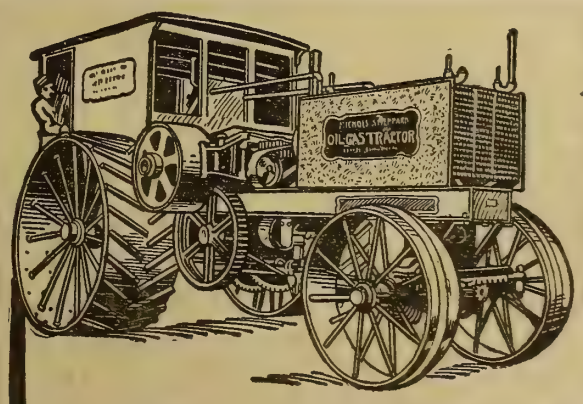

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A Few Hatching Facts.

By Chesla Sherlock.

IF YOU cannot manage an incubator so that it hatches strong, active chicks you have failed in your attempt to rival Nature. The primary object of every incubator manufactured is to hatch chicks, but many of the incubators on the market fail to hatch strong, livable chicks. You should determine in your own mind which incubator will produce the good chicks and buy only that incubator regardless of cost.

The cheap incubator is nothing more than a death trap, for it is evident that the manufacturer cannot put the materials and labor into the cheap incubator that is demanded for perfect incubation. You learned years ago that the hen "that does not mean business" should not be set. Then why attempt to use an incubator that is not as efficient as the restless hen?

To secure the very best results during incubation and to guard against the possibility of the eggs becoming chilled, they should be gathered every hour during cold weather. It has been proven that if an egg is allowed to be in the nest during very cold weather for a period of thirty minutes or more it will be ruined for hatching purposes. However, the writer has practiced gathering the eggs every hour for some time and has had good results. In one test seventy-five chicks were hatched from seventy-five eggs set and seventy-one were raised to maturity.

If it is necessary to keep the eggs a few days before they can be placed in the incubator, they should be placed in a room where an even temperature of 60 degrees is maintained. They should be turned at least once each day.

Where it is possible the eggs should be set the same day as laid. Practical tests and experiments have demonstrated the fact that where eggs are set immediately the chicks produced are stronger, larger and seem better equipped to fight life's battle than those hatched from eggs kept for periods varying from two days to two weeks.

This fact can easily be explained. The egg, like everything else containing a large percentage of moisture, is subjected to evaporation. The longer the egg is kept in the air without the germ of life being developed, the faster it will evaporate. Consequently the air cell of the egg becomes larger at the expense of the life-giving portion of the egg. This seems perfectly natural and we should exert ourselves to place eggs in the incubator that are newly laid.

All eggs that are misshapen, rough, or over size in any way should not be placed in the incubator. We have satisfied ourselves that it is practically impossible to hatch an egg that is not perfectly smooth in shell and uniform throughout. There are some people who think that if a hen wins first prize at some show, they should set her eggs whether they are uniform in size or badly misshapen. This is the wrong idea. The first prize hen that wins at the show should not be given the preference over any other that lays ill-shaped eggs. It should also be kept in mind that the prize winner does not always produce the best chicks.

As soon as the incubator arrives, set it up according to the directions given by the manufacturer. The best place for the incubator is a well lighted and well ventilated cellar. There must be no musty odors, for it will ruin all chances of a successful hatch. Be sure that it is perfectly level or the heat will not be evenly distributed. Fill the lamp with good oil—never use a cheap grade of oil. Be very careful about leaving the oil-can in the same room with the incubator. It has been demonstrated that the presence of the oil in the same room with the incubator will lessen the hatch from 10 to 17 per cent.

If the machine is operated on the hot-water principle it should be filled with boiling water. There are several reasons for heating the water before placing it in the incubator, the main one being that cold water, when heated, will expand and overflow.

The lamp should then be filled and lighted. It should burn with an even, steady flame, for the same principle in heating holds true as in lighting. You know that a small, irregular flame will not throw the best light. It is equally true that it will not throw the greatest amount of heat as an even flame.

When the temperature is up to 102 degrees the machine may be regulated. Another day should be given to determining whether the machine is properly regulated before placing the eggs in the tray. When you are confident that it is running evenly and holding the temperature well, the eggs may be placed in the tray.

Naturally when the cold eggs are placed in the tray the temperature will run down, but do not touch the regulator under any circumstances. The temperature will be back again in eight to twelve hours. The door should not be opened for at least twelve hours after the eggs are placed in the incubator. If you had the machine properly regulated before setting the eggs it will do better work without you bothering it. Here is where the advantage of a glass door comes in.

Do not start to turn the eggs later than the third day or do not turn them after the eighteenth day. For the first few days of the period of incubation the operator should be very careful not to use too much time in turning the eggs. If the weather is cold, ten minutes will be plenty of time for both the turning and the cooling. If the weather is warm, twenty to twenty-five minutes may be used without any harm. The eggs should be cooled twice daily. After the eighteenth day do not open the door of the incubator, except when it is absolutely necessary.

There are many people that believe in the idea that excessive moisture is absolutely necessary to secure the best results in hatching, while others are of the opinion that no moisture whatever is needed. The writer has given the subject of moisture a good deal of attention and has learned a few things that are interesting.

It will be noticed that the hen always hatches the best chicks. No moisture is applied by the hen to the eggs, but it is noticeable that the hen wandering around in the weeds to get her morning feed will collect a good deal of dew, which is carried on her plumage. When the hen returns to the nest this moisture comes in contact with the eggs. This fact has caused many to believe that moisture must be applied to the eggs.

In tests two or three seasons ago we learned that moisture is not necessary to hatch out strong, husky, chicks if the eggs are set the same day as laid. But where the eggs are several days old, possibly a week or two, it was found advantagecus to use a moderate amount of moisture. We never apply the moisture directly to the eggs, but place it in small saucers or dishes in the bottom of the incubator.

When the chicks commence to hatch do not let the curiosity get the better of you. Do not open the door during the hatching period. The chicks will get along better if you do not molest them. If the doors of the incubator have a lot of moisture on them, do not be alarmed, for everything is all right. If you should open the door at this time, you will ruin it all and possibly chill some of the chicks so that they will die.

The chicks should be kept in the incubator for at least twenty-four hours. They should be perfectly dry before leaving the incubator. You should use a great deal of care transfering them to the brooder, taking special pains that they do not become chilled. It is well to use old flannel rags to wrap about them and insure their being warm.

After all the eggs have hatched, remove all the rest and break each one and note the contents. In this way you may be able to learn valuable lessons in regard to incubation. The incubator should be given a thorough scrubbing and allowed to dry. It will then be ready for another hatch or can be stored away for the next season.

TO GET FERTILE EGGS.

To the Editor

Undoubtedly the hardest problem in the hen business during this time of the year is to get eggs that will produce strong, healthy chicks. There are many things that will weaken or destroy the fertility of an egg either before or after it is laid. As the demand for the early chicken is increasing a profitable field of enterprise is open to farmers and poultrymen. However, many who would seek to take advantage of it have given up in despair simply by failing to secure eggs that will hatch strong and vigorous chicks.

The foundation of this year's breeding stock should have been laid at this time last year. Before artificial incubation and breeding came into general use eggs were never set until late in the spring or early in the summer and if the breeding stock was healthy there was very little trouble about fertile eggs. The trouble was to keep the hen sitting three weeks. At the time when these eggs were laid Biddy was out picking her living where grass and insects were plenty. But as the incubator has come into more general use eggs are set during cold weather when the hens are shut in and the supply of green stuff and animal food is limited, and poor hatches are not uncommon.

Another important thing is to see that the laying hens are in a healthy condition. If kept closely confined in unhealthy quarters, suffering from disease and infested with vermin trouble is going to pop up somewhere. Even if the eggs from such hens should hatch the chicks will be small, puny ones that will die before they are two or three weeks old. A good idea is to select twelve or fifteen of the best hens and mate them with two or three vigorous cockerels or twelve or fifteen pullets with two or three

Your Winter Harvest in Eggs

There's not the slightest reason why every poultry raiser shouldn't have a harvest in eggs right now when eggs are high. Hens, *your own hens*, have a tendency to grow fat and lazy and the egg organs to become sluggish. This may be due to lack of exercise, the absence of green food and to other causes. But whatever the cause, remember that

Dr. Hess Poultry Pan-a-ce-a

positively tones up the dormant egg organs and takes the hens out of the loafer class and makes them lay eggs for market right when prices are the highest. It keeps hens hungry for their grain, so they remain busy all the time scratching for a living—and it's the busy hen that does the cackling and the more cackling the more eggs.

Dr. Hess Poultry Pan-a-ce-a contains:
Potassium Nitrate. An Eliminant.
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Under the supervision of Dr. Hess (M.D., D.V.S.) the above is carefully compounded and blended, with just enough cereal meal to make a perfect mixture.

Note the formula for Pan-a-ce-a in this advertisement; the definitions of ingredients are taken from U. S. Dispensatory and our best writers. With the formula on the label there can be no exaggeration of claims. You can look up the ingredients in any medical dictionary, and besides every Hess & Clark preparation is guaranteed.

Our Proposition:—Feed your hens Poultry Pan-a-ce-a right now when eggs are scarce; if you have the least shadow of doubt that it has not made your hens lay more eggs and kept them free from disease at a cost of only a penny a day for 30 hens—take to the dealer the empty package and he is compelled to refund your money. 1½ lbs. 25c; mail or express 40c; 5 lbs. 60c; 12 lbs. $1.25; 25-lb. pail $2.50; except in Canada and extreme West. If your dealer cannot supply you, we will.

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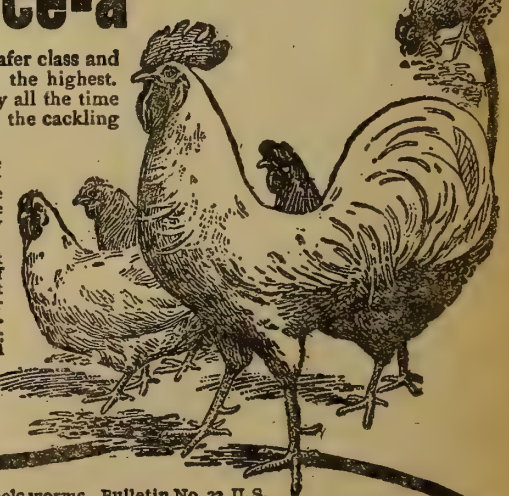

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You can pay any price you like for an incubator. The Old Trusty is made of the best materials by my big family of factory employes. It is made for folks who want the best and are willing to pay a reasonable price to get the best. I could cut my price down to $6.99—sell twice as many incubators and make more profit on each—if I wanted to skimp on materials and workmanship. The Old Trusty is built to hatch eggs successfully for as long as you will want it. Read this brief description. The whole story is in the Old Trusty Book—*free*.

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Case—clear California redwood—powder-dry, without check, warp or knot in a thousand feet of it—no odor—heat and moisture do not affect it. Covered with first grade genuine asbestos, then covered with handsome galvanized sheet metal—making it the strongest, most substantial and most practical incubator case ever constructed. Made the same all over, top, bottom, sides and all—not skimped on the bottom.

Johnson's patented heating system is so simple that folks are surprised it wasn't thought of sooner. Heated water is discharged into main pipes at end opposite lamp—pipes made just the right size so that every part of the egg tray gets the same even degree of heat. Tank made of pure, heavy copper with crimped joints that don't leak—tested 30 pounds to square inch to keep defective tanks from leaving factory.

Regulator that makes all others look complicated and unreliable. Double wafer—out of the way when moving trays. Single adjusting nut sets it. When once right it stays right. No levers, or other "do-dads" to bind and get out of order or spoil the hatch. Top of incubator is clear—can use it to rest trays on when turning eggs.

I use the Edward Miller Sun-Hinge Burner because I have never made a better one and no one else has. Don't let any "special" burner influence you. I also use absolutely the most accurate thermometer made. It is guaranteed by the manufacturers and by me. I have seen cheaper thermometers that were wrong as much as seven degrees. That's why I make sure of accuracy by using the best. A good lamp and good thermometer cost more but they mean success and success is worth the slight extra cost.

Every part of the Old Trusty is made in the most careful way, of the best materials. Honest all through—just as Abraham Lincoln would make it if he were my partner in business. We make good machines and tell the truth about them even if we don't know how to use flowery language. Don't you want the Old Trusty Book? Be sure to mail postal card now.

It's a Book that Will Help You—Tells Real Facts—Contains No Theories

Johnson landed in Clay Center with 65c in his pocket. Went to work in a mill for $1.50 per day. Made incubators in spare time in boiler room. Old Trusty was a big success from the beginning. Neighbors all wanted it. Johnson smashed a lot of old ideas by practical, sensible demonstrations. Soon made artificial hatching popular and easy for everybody. Kept quality up and price down always. The facts are all told in the book. It is written in a simple way—easy to read and easy to understand. It tells how the Old Trusty is made and why it is made that way. It shows you a lot of ways to save money, and prevent trouble. It tells how to make a success right from the start without experimenting. It is plain and honest throughout. Shows hundreds of actual photographs sent in by owners of Old Trusty incubators—gives their names and addresses so you can write to them. Contains no guesses or theories. Every page is a sane, sensible sermon that will make you a better poultry raiser. You ought to read the Old Trusty Book. It is sent free to all who write for it. If you don't order an Old Trusty it won't make me feel bad. But nine out of twelve people who ask for my book buy the Old Trusty. That's because they are convinced of Old Trusty supremacy and I let them prove it at my risk.

On this page you will find some reasons why the Old Trusty is such a good incubator and why it costs you less than $10. But write me that postal now and I will send you all the reasons. When you get the book—if you read it and say it didn't help you—return it and I will pay you the postage and for your time. Address

Johnson—Incubator Man
Clay Center, Neb.

Over 400,000 People Are Making Money With JOHNSON'S INCUBATORS

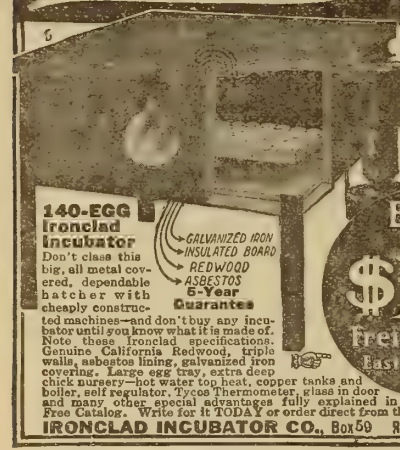
Johnson's Incubator has been on trial over 400,000 times. And it has made good. Think of it. 400,000 people, in every climate, in all parts of the country and under all sorts of conditions—have each made a success with the Old Trusty. Even boys and girls do it. Don't you think you can do it? Don't you think the Old Trusty is the Incubator you want—the incubator that will make the most money for you? You take no risk in proving it. I give you

30 to 90 Days Free Trial 10 Year Guarantee

That is the basis on which all Old Trusty incubators are sold. If you can't make a success with it I would much rather send your money back to you than have you disappointed. No one can say that Johnson ever gave anything except a fair, square deal. Send a postal for 1913 Old Trusty book, and read the whole story. Write me a postal card now.

Ironclad TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held



Why take chances with untried machines when for only $10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the **greatest hatching contests ever held.** In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid for only $10. Mrs. C. F. Merrick, Lockney, Texas batched 148 chicks from 148 eggs in 1912 contest

140-EGG Ironclad Incubator

Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this adv.

GALVANIZED IRON
INSULATED BOARD
REDWOOD
ASBESTOS
5-Year Guarantee

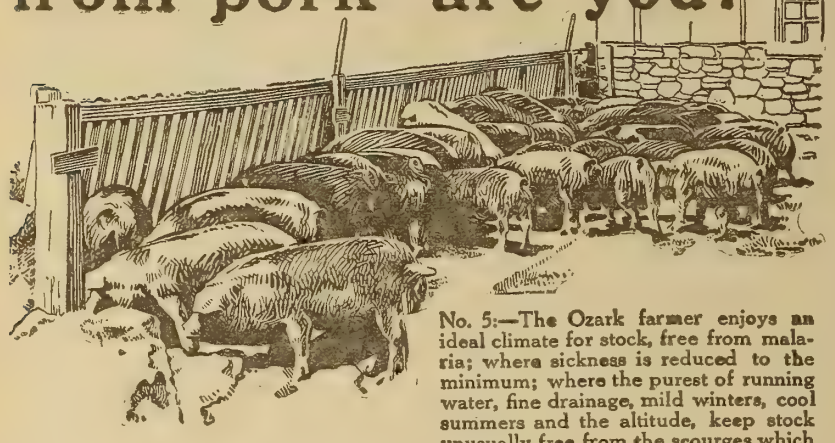
Both for $10 Freight Paid East of Rockies

30 Days' Free Trial Money Back if not Satisfied.

140 Chick Brooder

IRONCLAD INCUBATOR CO., Box 59 Racine, Wisc.

The Ozark farmer is making 5c a lb. profit from pork—are you?



THERE are five reasons why Ozark farmers get 5 cents a pound profit from pork—and they are the same reasons why stock raising of any kind in the Ozarks is so much more profitable than in other sections.

No. 1:—The Ozark farmer has good grazing from April 1st to January 1st—nine full months. Only 3 months of winter (mild at that)—no long expensive winter feeding and very little shelter needed.

No. 2:—The Ozark farmer can produce pork at 2 to 2½ cents per pound on cowpeas, alfalfa, peanuts, etc., which grow so well on these Ozark soils—only a little corn needed a few weeks before marketing, to make the flesh firm.

No. 3:—The Ozark farmer's city markets are so close by, that the net price offered him at his local market is greater than would be offered where the hogs would have to be shipped a greater distance.

No. 4:—The Ozark farmer is offered the highest prices prevailing anywhere—by the dealers in Kansas City, St. Louis and Memphis (price now around 8 cents).

No. 5:—The Ozark farmer enjoys an ideal climate for stock, free from malaria; where sickness is reduced to the minimum; where the purest of running water, fine drainage, mild winters, cool summers and the altitude, keep stock unusually free from the scourges which so often visit other sections.

James F. Crone, near Mountain Grove, spent $32 for hogs a little more than a year ago, and from that investment has sold pork to the value of more than $600; besides having meat for his family and 42 head on hand.

And think of the advantage in the Ozarks for dairying! Results speak louder than anything: E. T. Shelpman of Greene County, sold $1232 worth of cream and butter in a year from 12 cows; T. P. Emmons of Oregon County, sold $2,054 worth of milk from 20 cows; G. F. Holloway, who makes $10 per month per cow (and gets 65 bushels of corn per acre), says: "I find this country the best for farming and dairying, and I have been in nearly every State in the Union."

Even if you had to pay the same price for land in the Ozarks that is asked elsewhere, you could make greater returns from your investment there; but realize that right now you can get good land at $12 to $25 per acre. All in all, it's a proposition that ought to make any man want to *know more* about it now.

A free book for you!

It's not the kind you can pick up anywhere. Double sized pages, 75 actual photo pictures of farms—some in full color. Written by a man who knows farming. Takes up the Ozark sections, county by county, and describes the farming conditions there. Also tells actual experiences of Ozark farmers. I haven't many copies of this book on hand; please drop me a postal to-day for your free copy.

FRISCO LINES

Frank Anderson, Director of Development, 1502 Frisco Bldg., St. Louis, Mo.

Trojan "More-Corn" Sorter

Wonderful Time Saving Money Making Invention

The Only Perfect Corn Sorter on the Market

Used by all the best farmers and recommended and used by experts and experimental stations. Perfect sorting is the secret. It's the sorter you should use to increase your corn yield to 40 bus. on every acre.

SAVES THE GOOD SEED, DISCARDS THE BAD. Increases both quality and quantity, sorts corn in uniform sizes so your planter will drop 3 good kernels to a hill 99 times out of 100. None other like it. Your boy or girl can operate it. Just fill the hopper, turn the crank and the Trojan does the rest. PAYS FOR ITSELF ON 4 ACRES. A small investment that is guaranteed to pay for itself on 4 acres. The price is cheap because it is sold direct from factory to you. Get my special low freight prepaid price, and my special free trial offer and guarantee. Write for illustrated circular and price today. Address

W. K. Voorhees, Mgr. Standard Mfg. Co., 402 State St., Cedar Falls, Ia.

cocks. This should be done about two weeks before the eggs are saved. The males should be perfectly healthy and active. If some can be selected which are known to have matured early, and are the offspring of good layers so much the better. Avoid inbreeding as much as possible.

The best time to tell the health and vigor of a hen is during molting. A hen that molts early and quickly, recovers and commences laying proves to have a strong, vigorous constitution. A pullet that grows fast and feathers early is generally a good layer. Only those that are fully matured and lay full-sized eggs should be chosen for the breeding pen. The breeding stock should be given grain in a litter and be compelled to scratch it out. The more scratching to be done the better. A variety of grain should be given together with green food and animal food. The hens must be prevented from becoming overfat which is one cause of the non-fertilization of their eggs.

Only those eggs of medium size and an average as to color and shape should be kept for incubation. An unusually large egg or a correspondingly small one is likely to be defective and cannot be expected to hatch. They should be collected as soon as possible after being laid, taking care to keep them from being chilled. They should be kept at a temperature of 60 degrees Fahrenheit, and partly turned every day. If the eggs have been shipped in, do not be in too great a hurry to get them in the incubator or under the hen. Leave them at least twelve hours in a quiet place with an even temperature (60 degrees Fahrenheit) in order to give the germ in the egg a chance to settle back to the normal as it has very likely been moved from its natural position. Freshness should also be considered, the fresher the better, but as a rule do not use the eggs that are more than two weeks old. Fertility of the egg may also be destroyed by being laid in nest boxes containing moth marbles. A little attention to these simple directions will make quite a difference in the possibilities of fertile eggs and will greatly augment the percentage of chicks. Mrs. A. F. Sorensen.

THE RAISING OF EARLY CHICKS.

What an alluring sound to the man or woman who has anxious eyes fixed on the coming season's fruits in the poultry yard! For we all know it is the early chicks that pay best, but, alas! we know also the many pitfalls in the way of "bucking against Nature" in our effort to forestall her regular time for hatching. But success is possible, as has been shown in many instances. To be sure, the way is strewn with failures, but the successes stand out in clear light, showing that victory is not out of reach.

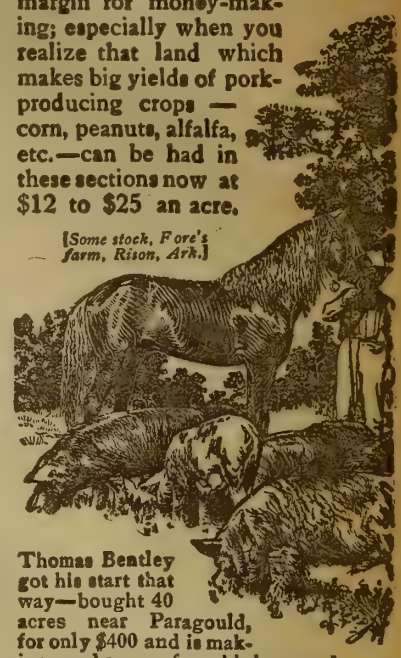
Experience shows that a few cardinal rules must be followed. Since Madam Biddy is such an unreliable quantity in the early spring or late winter in regard to broodiness our early chicks must of necessity be the scope of this article does not include the subject of the management of incubators, yet the importance of understanding how to secure the best results from their use must be emphasized. So much has been published along this line that the knowledge is available to all.

Our consideration of the matter begins with the time when the chicks are hatched. Really early chicks come at a cold, inhospitable time. The problem confronting us is to provide such temperatures and conditions as will best simulate those of the warm and balmy weather of the later spring time. Think of the temperature in which the embryo has been kept to bring it to the hatching point. The little chick is a very tender baby, and must be guarded against the possibility of a chill during the first weeks of its existence. Right here is the point where many make shipwreck. The annual loss in chicks is something so enormous that the United States should be ashamed of its record, and set about mending matters in a most vigorous fashion.

Most of the commercial chick feeds prepared by well-known and standard manufacturers are good. Care must be taken, however, not to keep any of this over from one year to the next, as stale chick-feed is apt to be disastrous in its effect on the

You can produce pork at 1½c per lb.

in Arkansas and Texas; and with pork bringing 8¢ to 9¢, there's a big margin for money-making; especially when you realize that land which makes big yields of pork-producing crops—corn, peanuts, alfalfa, etc.—can be had in these sections now at $12 to $25 an acre.



[*Some stock, Fore's farm, Rison, Ark.*]

Thomas Beadley got his start that way—bought 40 acres near Paragould, for only $400 and is making good money from his hogs and cows. His place is worth more than $3000 today. T. B. Fore of Rison, Ark., has lifted a mortgage off a fine 157-acre farm through his profits from hogs, cattle and horses. Mr. Fore raises *all his own feedstuffs*. All along the

Cotton Belt Route in Arkansas and Texas

you'll find many a man who is getting more profit *every year* than his land cost him. Gus Palmer, who lives just below the Arkansas line, near Shreveport, La., sold $2100 of alfalfa from 30 acres—a profit of $70 per acre. J. E. Gandy paid $3000 for an improved farm near Mt. Vernon, Texas; and the local people thought he'd paid too much. Since then he's refused offers of $7500 for his place.

These lands won't stay cheap always. They have already doubled in value since 1905; but even this year you can buy at $12 to $25 per acre, as good land there as you are farming now. And you'd have *every* advantage of schools, churches, close neighbors, good local markets, phones, rural free delivery, etc. This proposition deserves serious thought.

On the 1st and 3rd Tuesdays of each month there are low round trip excursions to Arkansas and Texas via Cotton Belt Route, allowing 25 days' time and free stopovers. Go on the *next* one.

Get our free books!

Written by a farm man who knows farming from A to Z. He traveled over thousands of miles in these sections to learn where the *real* farm opportunities were—the kind he knew *you* would grasp if you saw them. He tells you, in plain words, all about them. 100 pages and farm pictures. Send a postal today for your *free* copies.

E. W. LaBEAUME
General Passenger Agent
1454 Pierce Bldg., St. Louis

COTTON BELT ROUTE

Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

Blatchford's Calf Meal Factory
Waukegan, Ill.

OUR TRAPPER'S FRIEND AND GUIDE FREE

MODERN METHODS IN TRAPPING. This GUIDE is as different from any Guide you ever saw, as an AUTOMOBILE is different from the old time STAGE COACH. $100.00 would not buy it of you if you could not get another. You never saw its equal. You get the GUIDE FREE, ordered on our blanks. Write the Old Square Deal Fur House, WEIL BROS. & CO., A 28 Ft. Wayne, Ind.

bowels. A very good feed can be prepared at home. One formula is as follows:

40 lbs. cracked wheat.
40 lbs. finely cracked corn, sifted.
5 lbs. rape seed.
5 lbs. golden millet.
10 lbs. steel-cut oatmeal or pinhead oatmeal.

To this should be added a little fine chick grit and charcoal, and the whole well mixed.

Green food is another important item. Yet this is often harmful on account of improper feeding. Nothing should be fed in a wilted condition. Tender grass and dandelions, cut up as soon as gathered, are above suspicion. Lettuce is more doubtful, and should be fed sparingly. Doubtless the ideal food for these very early little fellows is sprouted grain. If the mass be cut into suitable sections to be put before them it will exactly simulate Mother Nature's offerings in the spring. They will recognize the value of this delicacy, and will dispose of it in a manner that will make evident their hearty approval. Indeed there has been scarcely a discovery in recent years that has such a bearing on the solution of the problem of raising early chicks.

They should not be stinted on their water supply, although it is not best to leave it before them for the first two or three days. I never take my chicks from the incubator until they are thirty-six hours old, strong enough to endure the change into a wider life. Although it is something of a digression I would say that my confidence would be badly shaken in any incubator whose nursery was not warm enough for the chicks to be kept in it this length of time. Test your machine with the thermometer. If it shows a temperature of 90 degrees while hatching is going on it will answer for the babies. If it is less than this they will have to be removed and kept warm in flannel-lined baskets by the stove. But they are not as well started in this way.

To return to the water question. When removing them to their new quarters I dip each little bill into water from which the chill has been taken. This is their first drink. At each feeding time the first two or three days the water is put before them, so that they may learn to help themselves. When they are old enough to have their chick feed always before them the water is also given. If green bone is fed it must be very sparingly. If good, fresh beef scrap can be secured it is safer. As time goes on the ration may be varied by giving suitable table scraps, odds and ends of cornbread, biscuit, bits of meat, etc., nothing very fat or salty should be given.

It goes without saying that cleanliness is absolutely indispensable to the welfare of these tiny early chicks. While they must be kept within doors this involves extra care and labor, but it is work rich in results.

It can be easily seen that the suggested method of feeding—letting the chicks help themselves at will from feed kept ever before them—is a great labor-saving method. When once it is adopted I am sure there will be no returning to the old way. As spring opens with its greatly increased output of chicks the relief it is to the busy, overburdened farmer's wife can scarcely be estimated.

The little fellows hatched so early should be lutsy, strong chicks by the time spring weather makes it possible to put them out of doors. What a delight and pride is a flock of youngsters, well started toward a vigorous maturity, at a time when general hatching is just beginning! Early fries bring a tempting price and help greatly in swelling the season's profits.

Subscriber.

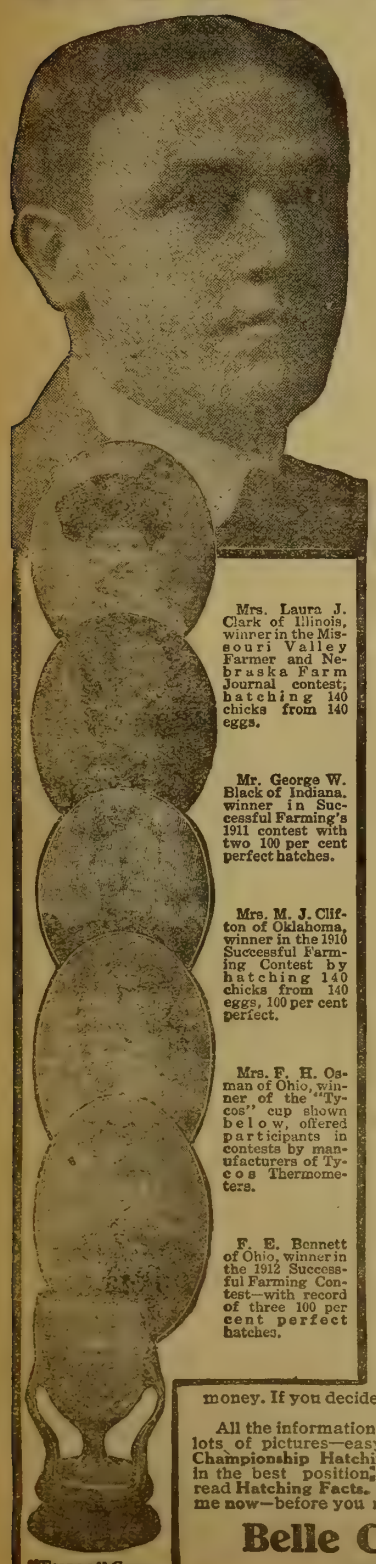
THE LEGHORN.

To the Editor

The Leghorn fowl originated in Italy and derives its name from the town of Leghorn, a seaport in that country, from which the first specimens were imported. As near as we can learn the first importation was about 1835. How long they had existed as a breed previous to that time it is impossible to learn. It is unfortunate that some of the early lovers of this variety have not written their history in a more full and definite manner as such a history carefully compiled would be very interesting reading to breeders of this variety. Very large combs was one of the striking features of these early-day Leghorns, some being known to reach six inches in height.

This will explain in some measure,

Here's What I'll Do—For Every Reader of the "Farmer" Who Writes Me A Postal



Mrs. Laura J. Clark of Illinois, winner in the Missouri Valley Farmer and Nebraska Farm Journal contest; hatching 140 chicks from 140 eggs.

Mr. George W. Black of Indiana, winner in Successful Farming's 1911 contest with two 100 per cent perfect hatches.

Mrs. M. J. Clifton of Oklahoma, winner in the 1910 Successful Farming Contest by hatching 140 chicks from 140 eggs, 100 per cent perfect.

Mrs. F. H. Osman of Ohio, winner of the "Tycos" cup shown below, offered participants in contests by manufacturers of Tycos Thermometers.

F. E. Bennett of Ohio, winner in the 1912 Successful Farming Contest—with record of three 100 per cent perfect hatches.

"Tycos" Cup

I WILL send you the most remarkable hatching facts ever published. I will make you the **lowest price proposition you ever heard of.** I will show you how to make championship hatching records and prove to you that you can make **greatest success right from the start** with a World's Championship Belle City—**prove with facts and figures its money-making power.** I will send you the reasons why the Belle City won six World's Championships and why no other hatcher has equalled its record. Won't you write me? I will send you my valuable collection of

World's Championship Hatching Facts—FREE

I have been advertising in farmers' publications for many years. I am proud to number thousands of readers of this paper among my **195,720 customers,** which also includes the **U. S. Government.** The remarkably low prices I am making this year is sure to bring me hundreds of new customers, because no one can buy a better hatcher or a better brooder, at any price.

I am proud of the fact that Belle City customers have won so many World's Championships; that the Belle City has won in contests totaling 10,000 hatches, against every other incubator made, many of them costing from two to five times more than my low price.

I am not asking you to take my word for it. Just write me and I'll put the facts, proof, figures and all information right in your home so you can judge for yourself. I want to tell you about the folks who won the World's Championship prizes—send you their letters telling how they did it and what they think of the Belle City.

I want to tell you how to be in a position to win Championships yourself and the prizes and benefits that go with the title.

I will send you proof that will leave no question in your mind as to the remarkable hatching value of the Belle City. I will tell you the secrets of construction and the advantages in design, that have made my Belle City the **Championship Hatcher of the World.** I leave nothing untold. I tell you everything because I am proud of everything connected with the Belle City.

I Want to Send You My 1913 Low Price on My 6-Time World's Champion Belle City

I will show you positively that my 6-time World's Champion Belle City **has everything worth having in and on an Incubator.** It has Double Walls with dead air space all over, the best self-regulator money can buy, cold-rolled copper heating tank and boiler, a real safety lamp, a big, roomy nursery, famous "Tycos" thermometer, a strong egg tray, a reliable egg tester and a complete book of instructions. It has every feature that made possible the winning of six World's Championships with 100 per cent hatches—by people who **never owned any incubator before they bought the Belle City.**

I'll tell you about my **World's Famous Belle City Brooder,** too. It's worthy of the Belle City Incubator. It is the only **Double-wall, Hot Water, Top Heat Brooder Made.** My price will surprise you. Then after you have read all the facts—should you decide to try a Belle City Incubator and Brooder—I will let you have them on

1, 2 or 3 Months Home Test Money Back Offer and 10 Year Guarantee

I want you to be the judge and jury and decide the merits of the Belle City by the evidence of your own eyes. I want you to try a Belle City outfit at my risk. I will send one to you on one, two or three months' home test. If it doesn't come up to what you expect—send it back and I'll return your money. If you decide to keep it, you are protected by my personal 10-year guarantee

All the information I want to send you is placed in convenient form—big type—lots of pictures—easy to read and easy to understand. **Don't miss my World's Championship Hatching Facts. There is no charge, no obligation.** You will be in the best position to select the **right** incubator and brooder, after you have read **Hatching Facts.** My sensational low price offer goes with my letter. **Write me now**—before you forget. Address Jim Rohan, Pres.

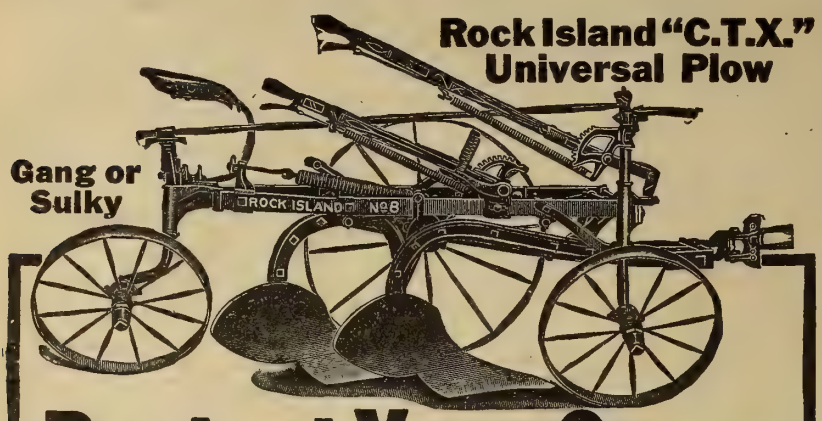
Belle City Incubator Company
Box 52 Racine, Wis.

Write Me Now!

You have nothing to lose and everything to gain by writing me. Whether you buy of me or not, you ought to get my portfolio of World's Championship Hatching Facts. It will give you just the information you need to start you and keep you right in the poultry business. It will tell you how to make the most money at least expense. Write me. A Postal will do. Address me personally, Jim Rohan, Pres.

We Ship Quick From Buffalo, Kansas City, St. Paul or Racine.

Freight Prepaid



Protect Your Crops

By Doing Away With Dangerous Air Spaces

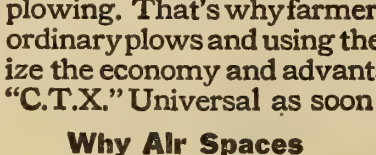
Many a fine crop has been shortened, yes ruined, because of air spaces left between topsoil and subsoil when plowing. That's why farmers everywhere are discarding ordinary plows and using the "C.T.X." You, too, will realize the economy and advantage of using the Rock Island "C.T.X." Universal as soon as you know all about it.

Why Air Spaces Prove Fatal

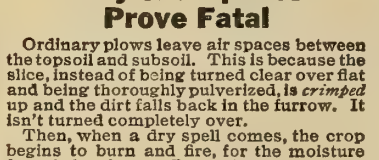
Ordinary plows leave air spaces between the topsoil and subsoil. This is because the slice, instead of being turned clear over flat and being thoroughly pulverized, is *crimped* up and the dirt falls back in the furrow. It isn't turned completely over.

Then, when a dry spell comes, the crop begins to burn and fire, for the moisture from below is cut off completely.

If the topsoil lay flat on the subsoil and there were no air spaces, moisture would come right up from below, just as kerosene comes up the wick of your lamp. Thus, during a long siege of dry weather, when no rain falls for weeks and weeks, your crop suffers but very little, because it will draw on the moisture from below.



AIR SPACE—Ordinary



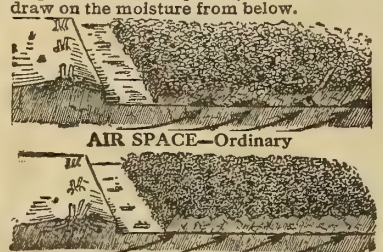
NO AIR SPACE—"C.T.X."

How the Rock Island "C.T.X." Universal Plow Ended Air Spaces

Now, the Rock Island "C.T.X." Universal has a very peculiar bottom—*corkscrew-like* in shape. A perfected, patented shape that is proving a boon to the user.

Instead of throwing the dirt *backward* and *upward*, this bottom sends the dirt *backward* and *DOWNWARD*. (The arrows in the pictures below show how dirt travels over an ordinary bottom and over the Rock Island Universal bottom.)

Thus, no dirt is spilled into the furrow and each slice is so thoroughly pulverized and so completely overturned, that your *top-soil* lies right against the *subsoil*. No air spaces between. All this sounds very simple, yet it has taken years of experience and study to realize what it really means and how to avoid it. It's the last big step to perfect plowing.



This Plow Carries Dirt Back — Ordinary Plow Throws Dirt Forward

A Truly Universal Plow

Nor is the solving of the air space problem all that this plow has done.

For here is a truly *universal* plow—the only *universal* plow in all the world.

You can work this plow in any field on your farm and do perfect work in *tame sod*, in *old stubble*, in *trashy cornfields*, in *meadows*, just *any place*. Makes no difference whether it's *gumbo*, *heavy clay*, *sandy loam* or *mixed soil*. Every slice will be turned over flat; all trash will be completely buried. Every furrow will be clean; and the dirt will be pulverized more completely than you ever thought possible, saving you at least one harrowing.

Do you wonder that the Rock Island "C.T.X." Universal quickly became such a sensation?

Do you wonder that, to keep up with the multiplying demand, it has taxed our factory and workmen to the utmost? That we have had to increase our factory output over four times?

Do you wonder that men who see this plow perform are discarding their old plows and using "C.T.X." simply from an economical standpoint? It's a fact.

The Price Is Reasonable

Notwithstanding the unusual demand for this plow and the fact that we own and control all patents on a plow that really has no competitor in results, *we have not raised the price.*

It requires greater care and is more expensive in construction, but enormous production enables us to get lowest possible factory cost so that it costs you practically no more than an ordinary plow.

Its great value to you is in the results—the increased crops—the saving in work and the far greater satisfaction and longer life.

FREE CATALOG Proper plowing is the basis of all farming. You, as a user of plows, should learn what the Rock Island "C.T.X." has done toward improving the plowing, increasing the crops without extra cost, and also saving labor. Give us your name and address on a card and we will tell you where you can see a Rock Island "C.T.X." Universal and you can judge for yourself, for your own knowledge and experience will show you why you can't afford to use any other. Write these words on a postal: *"I am interested in plows."* Then sign your name and address and mail to

ROCK ISLAND PLOW CO., 184 Second Ave., Rock Island, Ill.

why an occasional specimen at the present time should have an abnormal growth of head gear. It is simply the natural reversion to their original ancestors and should not be condemned as a serious fault.

In the year 1852 other importations were brought over. These, however, did not have nearly such large combs, but were extremely large compared with the present-day Leghorn.

The Leghorn is one of the oldest standard varieties, the browns and whites being the originals of this breed. In later years others have been added until now the present standard recognizes five distinct color varieties, viz.: Black, Brown, Buff, Silver Duck Wing and White. If we include shape we can add two more, Rose Comb Brown, and Rose Comb White. Besides these there are at least three or four in the course of formation not to mention the Golden, Silver Pyle and the Cuckoo as named and recognized by the fanciers' club, of England.

Little can be learned about their progress from the early fifties until 1873 when the American Poultry Association was organized and in 1874 the first Standard of Perfection was issued. What has transpired since that time is easily accessible to all by a study of old copies of the Standard. Perhaps there has been as much time and thought spent on the Brown Leghorn as any other breed in existence. At first they seemed to yield very slowly to the desire of fanciers, doubtless they had been bred in the original colors and shape so long, but in later years they have become more pliable especially as to color, until at the present time the fancier who thoroughly understands his flock can mate them so as to produce first-class specimens with a remarkable degree of certainty.

Their beautifully curved outline coupled with their dainty, genteel way will ever make them subjects for the most careful and painstaking fancier, while their genuine worth as egg producers will ever make them popular with the lover of fresh eggs and plenty of them, and the fact that their earlier history has never been carefully written does not detract a particle from their popularity. The Leghorn, while a breed of great promise, is not a breed for every man and every place. Put the Leghorn in its place and there is no fowl that can surpass it, but if subjected to conditions that are not suitable to their wants failure and disgust are inevitable.

The Leghorn is ambitious and always willing to work and if there is any scratching in sight they are in for it, no matter whether it is a heap of barnyard produce or a fancy pansy bed. Practically it is all the same to them. I once heard a breeder of Leghorns remark that "the chicks commenced scratching before they got both legs out of the shell," and I don't know but what she was right. It is possible that they do not start quite that early, but I know for a fact that they often start to scratch in the bottom of the basket w have carried them in when taken from the nest. They seem to know that it is very important for them to put in every minute at good, honest work and that is probably one reason why they are ready to lay when four or five months old.

Mrs. Frank Sorensen.

Nebraska.

EASY METHODS OF FORCING RHUBARB.

If you want rhubarb early when it is a good price at the groceries and even more to the winter clogged systems, get a supply of strong roots and plant in very rich, mellow ground, thirty inches apart each way and in a square plot. Knock the heads out of sugar or salt barrels or any old barrel or cask and set over your rhubarb hills. Pack fresh horse manure firmly in between the barrels and cover them with gunny sacks or cloth. The manure should be tamped well and be placed all around the barrels. It heats and warms the ground beneath and the air inside the barrels and forces the rhubarb into growth at once. The barrels cause the leaves to run up to the light and gives you long, tender stems.

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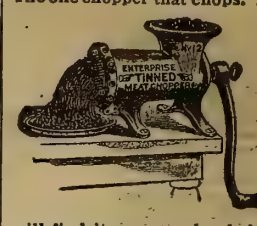

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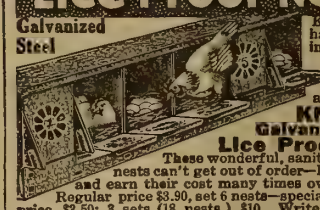

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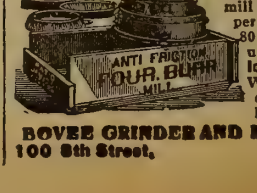

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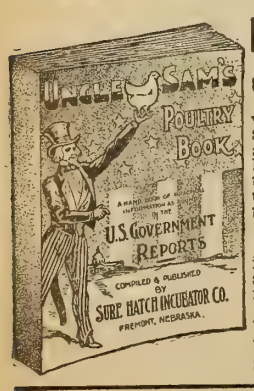

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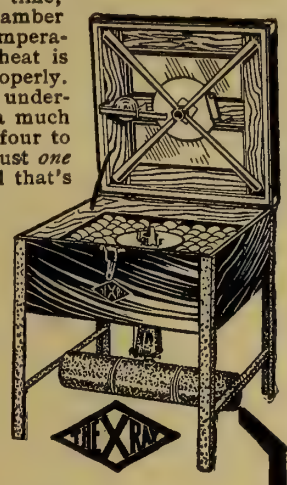
Requires Only One Filling of the Lamp

Now shipped *direct* to you from my big X-Ray Factory. No agents—no dealers. Guaranteed to please you. Orders filled *same* day received. I prepay freight *anywhere! Quick Service!* Here's the only incubator built on the *right* principle with the lamp *underneath* — square in the center — and *not* on the side as with *old-style* machines. With the lamp underneath on my X-Ray Incubator an even, regular temperature is kept all the time, *every* part of the egg-chamber is at proper hatching temperature — because the heat is distributed evenly and properly. In placing my oil tank underneath, I am able to use a much *bigger* one—it holds from four to eight quarts of oil — but just *one* gallon (four quarts) are all that's needed for an entire hatch. I *absolutely guarantee this!* And this big tank just has to be filled *only once*—not every single day as the old-style machines do. Now my *automatic trip*—an exclusive patented X-Ray feature—is the watch-dog on your oil bill. It is *really* a most wonderful regulating device, cutting down the flame *at the burner* when the egg-chamber gets too hot—and thus saving you all that excess heat that goes to waste in the *old-style* lamp-on-the-side machines. You never have to touch the regulator on my guaranteed-successful



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Why? Because it is *automatic* and takes care of itself! The door of my X-Ray Incubator is at the *top*, and has two double-glass panels—so you can see the thermometer at any time by looking through the glass. You don't have to raise the lid and let chilly air in on the eggs. It is not necessary to remove or lift the egg-tray from my X-Ray Incubator during the hatch. Ventilate by simply raising the lid. So you save the time and labor of removing the egg-tray in order to turn or air the eggs. You save the danger of dropping a tray of eggs—because tray is *not* removed. You save getting down on your knees in front of machine and wasting matches trying to read the thermometer through a *side* door. You save *all* uncertainties in automatic regulation. My X-Ray Indicator shows whether heat is right or wrong—my thermometer is the most accurate and most simple to read of any ever placed on an incubator.

Get My Factory-Direct Price— Get My New Free X-Ray Book

Learn about *both* my machines—my X-Ray Incubator and my X-Ray Brooder. Brooder has same perfect heating system as X-Ray Incubator. It is easiest to clean—has best lighting and ventilating systems. Four windows — all slide — to ventilate. Makes a better home for little chicks than the old hen herself. But first get all facts about my X-Ray Incubator. Please bear in mind that I positively guarantee to save you three-fourths of the oil you would have to use with one of the old-style machines. Please remember also that my X-Ray Incubator is the only one built on the proven principle the lamp *underneath*. The X-Ray in your home means less of handling, less oil, less heat generated, absolutely no waste, no filling of the lamp during the entire hatch, no danger of "cooking eggs"—and an even, regular hatching temperature in the egg-chamber all-the-time. Instead of wasting the excess heat as all the old-style machines do—the X-Ray controls it.

Free Book No. 42 tells you all about X-Ray Incubators and Brooders. Just drop me a postal or a letter Today and ask me for this valuable book. I'll send it right back to you by return mail—and you'll profit both in dollars and experience by having done so. When you write, please address me personally. Sincerely yours,

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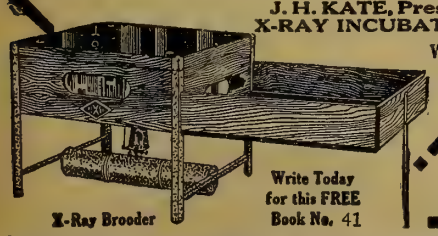

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METHODS THAT MAKE POULTRY MORE PROFITABLE.

(Concluded from page 3.)

the neighbor's rooster, both in the country and in towns, is a potent one, and one that will have to be dealt with. If the farmers in at least five of the central western states could be induced to remove the male birds from the laying flocks as soon as the breeding season is over, and keep them removed during this coming summer, it would save in each state over $1,000,000 cash. And this would be cash that would come in from outside the states, for the eggs of these states are largely marketed in the extreme East, extreme West, or extreme South.

It was found by the United States government investigators that where the farmers produced infertile eggs, collected those eggs twice a day in hot weather, kept them in a cave cellar where the temperature was below 70 degrees, and marketed them twice a week, keeping them out of the sun on the way to town, were able to have their eggs graded out 97 per cent "firsts." This means that for all practical purposes by taking reasonable care, that they would be able to add one and one-half cents per dozen onto the price of their eggs where three cents was the difference between "firsts" and "seconds." Figured one and one-half pounds to the dozen, it would mean that they would be able to get one cent per pound more for their eggs, and one cent added to the price of one pound of eggs, is just as much as one cent added on the price of beef or pork.

There are two ways to get rid of the male birds on the farm. One is to sell them as broilers when they weigh about two pounds, and are worth in the neighborhood of twenty-five cents per pound. I would like to call your attention to the fact right here that by the time the farmer ordinarily markets his roosters they weigh in the neighborhood of six pounds and are worth about eight cents, and bring him just about the same amount of cash that they would have as two-pound broilers, and, furthermore, they have eaten in the neighborhood of twenty-five cents' worth of feed, and brought a lot of eggs down in market value by fertilizing them. The second way to get rid of the male bird is to caponize him.

It is just as foolish to allow a male bird to grow up into a stag as it is to allow the male pig to deteriorate in market quality by becoming staggy. It is now possible to purchase instruments to perform this operation at a reasonable cost, and the skill required is little, if any, greater than with any of the other food-producing animals on the farm. The capon is an easier keeper from both the standpoint of maintenance and fattening, will not crow or quarrel and may be turned over at ten months, in the case of the American breeds, weighing around eight pounds at from sixteen cents to twenty-three or twenty-four cents per pound. It is advisable for any farmer who has mixed stock to caponize or sell their male birds while they are young, and buy thrifty, vigorous, pure-bred males of the breed and variety which he most admires, each year. He should be able to buy such birds as he wants for a couple of dollars apiece. At the end of the breeding season he will have gotten his money's worth for them in the flock of thrifty chicks that will be coming on, and should have disposed of them at whatever the market price may be. During nine months in the year on the general farm there should not be a single male bird found of breeding advantage.

A Place to Hang the Clothes.

There are some homes where trees are not handy for attaching clothes-lines, so a place must be made to support the wires. A frame for supporting the line can be made with but little trouble. Set three posts in the ground and put cross-arms to them similar to the cross arms on telephone poles. Then the wires can be stretched along over these. They will hold up all the big washings the housewife may have, and keep her in good humor all the while.

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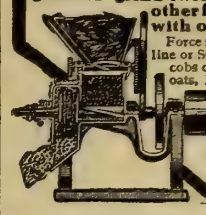

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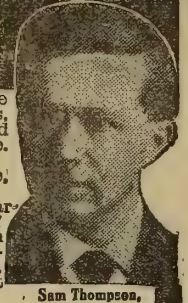

Sam Thompson, President

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These are not claims, they are facts and I back them with my guarantee, the fairest, squarest ever written.

First, I guarantee that the Fairfield is made right, that it works right, particularly, that it will hatch right, which means hatch 90% or better of all fertile, hatchable eggs or you get your money back. Now the question is, do you want a guaranteed Fairfield and some profits, or will you invest your money and experiment with any old kind and waste your time, spoil high-priced eggs and be satisfied with 50 or 60% hatches that you get with ordinary incubators. Think it over. At least investigate.

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Seven years ago the first Fairfields were built. They made good right from the start. They made hatching and poultry raising a certainty instead of guesswork. They established a record for big, continuous hatches that no other incubator has ever been able to touch. That's why the Fairfield today is known and recognized as the World's Best Hatcher.

Six years ago a Fairfield was shipped to Mrs. Wm. Evans, at Albion, Neb. During all this time she averaged 92% hatches and had absolutely no expense for repairs except 30 cents for new lamp burner.

Coxbill Bros., Deweese, Neb., bought four Fairfields last season and hatched over 2,000 chicks. In their recent letter they report that their old Fairfield bought 5 years ago still runs fine and hatches same as their new ones.

Thousands of similar reports are on file. We will send you some from your own community if you still have any doubt about it being the World's Best Hatcher. The quickest and surest way to convince yourself is to get my 2-hatch trial offer and try the Fairfield on my guarantee of your

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The whole secret of the Fairfield hatching power lies in the construction of the machine. It's made of finest California Redwood with double wooden walls having dead air space between. The lid is made with special insulating material to retain heat. The heating system is of heavy copper throughout and so arranged that every part of egg chamber is of even temperature. In addition it has automatic heat regulator to insure steady, uniform heat, without requiring constant attention from operator. Each detail of Fairfield construction is correctly and honestly worked out. It cannot help but give satisfaction to everyone, either new beginners or expert poultry raisers, in any climate and maintain its reputation as the World's Best Hatcher.

You Can Own a Fairfield Free After First Hatch

The Fairfield costs no more than most of the ordinary incubators but the first hatch made with a Fairfield pays for it and leaves a profit besides. That makes the Fairfield a mighty good investment.

The Fairfield Makes the Chicken Business Pay.

It removes the guesswork and uncertainty and you get reliable results because you are working with a reliable machine. When you put 100 fertile eggs into a Fairfield you absolutely know you will get at least 90 chicks because that is my unconditional guarantee. I couldn't give you a guarantee like this unless my machine was as perfect as it is possible for human skill to make it.

AIRFIELD Incubator WINS.

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The Farmers Mail and Breeze, to show the possibilities in chicken raising for profits, conducted an incubator contest among its readers. 1,500 people from Missouri and Kansas entered. Every known make of incubator was represented and Mrs. R. L. Decker, of Columbus, Mo., won first prize with a Fairfield which made a 99¼ and 100% hatch. That's simply another illustration of the fact that the Fairfield is really and truly the World's Best Hatcher.

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A. M. PIPER, 840 POPULAR BUILDING, DES MOINES, IOWA.

Ewing's Great Superba and B. & C.'s Col. Sale, February 17th.

Perhaps no man connected with the Duroc business for so short a period has put more energy, time, money and brains into founding a herd of Duroc Jersey swine than our old friend, Bob Ewing, of baseball fame, who hails from New Hampshire, Ohio. In founding this great herd he was a wise guy. He consulted the best breeders, field men and auctioneers connected with the business and made his selections regardless of cost. In the first place, he bought the great boar, Superba, and then added B. & C.'s Col., champion of Iowa and Illinois, a litter mate to King of Cols., as an assistant. He then bought sows of the very richest breeding that were bred to mate right with these boars. He now offers as fine a collection of sows at public auction as will perhaps be sold this winter, and just to prove that Superba is breeding the right kind he will offer the great gilt, American Beauty, bred to B. & C.'s Col. To add to this already great attraction he bought ten gilts, the pick and choice of East Bros.' great herd, mostly by the great boar, Defender, bred to Superba. The sows listed in this sale are hand-picked sows by most every noted sire of the breed. Among these are sows sired by Defender, Superba, King of Cols., The Professor, Prince of Cols., Orion Chief, The Top Col. II., Highland King, King of Col.'s Ideal, B. & C.'s Col., Crimson Col., Instructor, Top Col. II., Helen's Chief, Defender King, Morton's Top Col., Volunteer, Ky. Col. and others. All in all it will be one of the most select offerings ever offered Duroc men at auction. Among these are many tried ones, including the great sow, Rainbow by Educator, out of a King of Cols. dam, that was first and senior champion at the American Royal. Other sows that have been prize winners on the eastern and southern circuits will be added as special attractions, and the gilts by Superb that can win next year in the biggest and best shows of America. It should be remembered that Superba is one of the richest Ohio Chief-Col.-bred boars in the world. In the show ring at the Illinois State Fair Superba never knew the meaning of defeat and it is said by many breeders that he is the greatest boar living today. His daughter, Lucy Superba, farrowed a litter that sold for $1,100, and she herself sold at $525 at auction. The top gilt in the Browning sale December 19th was a daughter of Superba and many other daughters of Superba have been able to top sales the past season. It would be well at this time for breeders who want blood of this noted sire to attend the Bob Ewing sale, for practically every sow bred to Superba to be sold this winter is listed in Mr. Ewing's catalog. All the choice gilts sired by Superba are bred to the great boar, B. & C.'s Col. This sale is the initial sale of the northern Ohio circuit, comprised of the best breeders in northern Ohio. It would be well to get off on the right foot and commence the week at Mr. Ewing's. Those who cannot attend the sale should send their bids by mail or wire to H. E. Browning, representing The Homestead, in care of Mr. Ewing. Colonels Igleheart, Reppert and Irwin, auctioneers.

Announcing Mouw's Great Sows.

Peter Mouw sells another great lot of brood sows this year at his farm, a mile north of Orange City, Iowa, on Wednesday, February 19th. It is not necessary to remark upon the record of the man whose single idea in breeding has resulted in the wonderful class of hogs which are known and used now in just about every section of the world where Poland Chinas are bred at all. His record speaks for itself and what we wish to do is merely to call the attention of breeders to the class of sows which he sells this year. For the most part they are yearlings which have raised pigs or well-grown fall gilts. Only a few spring gilts will be included, as the older sows are more certain to give good returns as breeders. There hasn't been a bunch sold at any sale on this farm where there was more size for their age and there are not many chances to get sows with show prospects before them. The most impressive thing in this entire lot of sows was the thrifty appearance they showed. They were extremely vigorous and active and showed size and smoothness both. No. 1 in the catalog is a yearling sow that has a finish and evenness of type which, with her size, make her the kind every herd needs. Likewise No. 3, a sow that for show type will head any list with honor. The sows by his famous Big Jumbo are a good lot, they have a great deal of the same big look about them and are a really well-made bunch. Big Jumbo represents the best efforts of Peter Mouw to date in his own herd. So well did he like the boar that he has several sons of the old fellow which give promise of making similar individuals when mature. One needs to put in a good word for Long Orange, however, for he has sired some very good sows, some that rank as high as any in the herd for smoothness of type, stretch and roomy build. There isn't a sow in this sale that does not look like a breeder of the best sort. Every one is roomy, every one looks vigorous and active and many were carrying their own guarantees the last of January. It is an interesting study in breeding to follow the history of the development of this herd. Peter Mouw knew exactly what he wanted and when he was fixing the type of his hogs he went wherever he could find hogs that came near what he was after, and he was not afraid of any breeding if it had the characteristics he was after. When, after his years of breeding and selection had made his hogs produce uniformly the qualities he sought, the demand came for the type Mr. Mouw had had his faith in all the time, regardless of fickle

Clover Seed

OUR Sterling grades of Northern Grown Clover Seed are the hardiest produced. This seed is grown from plants which have survived the extreme cold of winter and the alternate freezing and thawing of Spring and Fall. By planting our vigorous seed, Clovers may be established in Northern sections where until recently it was not thought possible for them to thrive.

Laboratory tests for purity and germination determine such seed as is worthy the name of Sterling. This grade is 99½% pure, insuring freedom from weed seeds. Sterling grade seeds are sold only in sealed bags bearing our name and trade mark.

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The best merchants in all localities sell our lines of garden, grass and field seeds, including clover, seed grain, seed corn, etc.

If no dealer in your community sells our seeds, and will not get them for you, send us your order direct, and we will see that you are promptly supplied.

Full Information about Clover in Our 1913 Catalogue

This book contains 144 pages filled with illustrations and descriptions of seed best worth growing. Every planter large or small should have it. Mailed free to any address on request.

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Let Neubert Save You $5.00

On the Best Hatcher Ever Turned Out of Any Factory

Took me 19 years to make the Triumph perfect. Now it can't be equalled. Let me *prove* it. Send name for my great book. I'll tell you about features that make successful poultry raising *easy* for *anyone*. My price for the

1913 TRIUMPH

saves you $5.00. Walls made of Redwood, Basswood, air space, asbestos, 2 layers of 3-ply building felt—heavy copper heating tank with galvanized *hot air* attachment to save *all* the heat, double acting regulator—automatic ventilation. Best thermometer, strongest egg trays, roomy nursery, egg tester—all complete, ready to run. Mail postal now for book—before you spend a cent for *any* incubator or brooder. Address

R. F. NEUBERT
Box 787
Mankato, Minnesota

BIG AMUSEMENT PACKAGE--10 Cts.

Checker and Chess with men, Set Dominoes, Fox & Geese, 9 Men Morris, Authors—48 cards, 15 Cards—Love, Courtship, Marriage, 200 Riddles and Conundrums, 275 Select Autograph Album Verses, 15 Magic Tricks, 17 New Parlor Games, 12 Chemical Experiments, Language of Flowers, The Secret of Ventriloquism, How to Tell Fortunes, and a lot of other things to entertain the whole family all winter. This big $1.00 package all for 10c. **S. Cooper & Co. Box. 6 Horton, N.Y.**

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WE GROW AND GUARANTEE THEM

We offer 500,000 First Quality Trees. All varieties of apples, peach, pear, cherry. Evergreens by the million. New Catalog for 1913 just out—Save money. Get our wholesale price list. Write today.

WRAGG NURSERY CO.
Des Moines, Ia.

WANTED: A MAN OR WOMAN all or spare time to secure information for us. Work at home or travel. Experience not necessary. Nothing to sell. GOOD PAY. Send stamp for particulars. Address M. S. I A., 552 L Bldg., Indianapolis, Indiana.

APRON PATTERN GIVEN

This is the best apron pattern ever offered and it is something every lady needs. All new subscribers to

People's Popular Monthly

will receive one free. This is a prize pattern. Takes 4½ yds. of material one yard wide. Only 2 buttons. Small, medium and large size. People's Popular Monthly is a fine, 32-page beautifully illustrated home magazine, for women and girls, filled with bright, interesting stories and well edited departments on Fancy Work, Home Dressmaking, Cooking, etc. It would be cheap at 50c a year, but in order to introduce it to new readers we send the People's Popular Monthly a full year and the apron pattern for only 25 cents. Address,

PEOPLE'S POPULAR MONTHLY,
211 Grand & 3rd
Des Moines, Ia.

public fancy he had a herd that would produce the qualities sought uniformly, and could be depended upon to do it regularly. His breeding has always been in the same direction and today the list of big hogs that have made great records which were either bred at Mr. Mouw's or from ancestors of Mr. Mouw's breeds shows anyone who looks at it fairly that buying here is buying at the fountain head of this type. The list of great boars, only a partial one at that, is given in the advertisement and shows what has really been done. Cols. J. A. Benson and Ira Cottingham, auctioneers. Ray L. Gribben, representative of The Homestead, will be at the sale and will give conscientious service to those sending him either mail or wire bids. For catalog address, mentioning The Homestead, Peter Mouw, Orange City, Iowa.

Isaac's Big-Type Durocs.

On Wednesday, February 12th, J. D. Isaac will hold his annual winter sale of big-type Duroc Jersey brood sows at Ded Oak, Iowa, and he will show the breeders fifty-two head of as big sows and gilts as will go through a sale ring this winter. In last week's issue we went into somewhat lengthy details about Mr. Isaac's offering and gave the breeding of the same. The boars he now has at the head of his herd are Jim's Mogul, a line-bred Critic boar and a good one of the strictly large-type kind. Another is Iowa King, a son of C. E.'s Col., and the other two are Great Crimson, a son of Big Crimson, and Valley King 3d, a son of Valley King II. No. 1 of his catalog is Valley Lady, a daughter of the champion boar, Valley King, and she is bred for a March 17th litter o Jim's Mogul. Running through his entire offering is a line of big-type breeding and, as Mr. Isaac is a good feeder and caretaker, you can rest assured they will be big enough to suit anybody. Write for his catalog and make it a point to attend his sale. Remember the date, Wednesday, February 12th, at Red Oak, Iowa, in the new heated sale pavilion. Kindly mention The Homestead when writing for catalog.

Cockerton's Sow Sale.

On Tuesday, February 18th, James Cockerton, Whiting, Iowa, will sell fifty of his big Poland China sows and his offering is one that is always good. We never saw him put up a poor offering and, take our word for it, he will show you a splendid offering in his forthcoming sale. The sows he is selling in this sale will be bred to Big Wonder, a good son of Smooth Wonder 2d; Orange Jumbo, a son of Big Orange; A Defender by Big Defender, and Cloverdale Wonder, a grandson of Longfellow P. He is selling seven tried sows in this sale that are hard to beat. Among these is Long Mollie by Long Chief, that is about the largest sow that will be sold in the West this winter. A spring gilt out of her that goes into this sale is also one of the largest and the best gilts that will pass through a sale ring this winter. He is selling two splendid daughters of Smooth Wonder 2d and another good sow called Wonder Maid by Chief Price Jr. Eleven fall sows by his well-known prize-winning boar, old Sioux Chief, will be attractive things in his sale; also a few by Victor's Model are very choice. He is selling thirty-one good gilts by Big Wonder and Orange Jumbo and these are good. That good Smooth Wonder sow we referred to above is Lady Wonder and she is two years old. She was the second choice of the litter that sold in the Hancher sale for $915, and she goes in bred to Orange Jumbo. The Long Molly sow that we spoke of is an outstanding sow, as is also her spring gilt by Big Wonder. His offering is strictly first class in every way and it will be a good sale to attend. When writing for his catalog kindly mention The Homestead. M. T. White will represent The Homestead at the sale and any bids sent him will be looked after on day of sale.

Van Patten & Son's Duroc Sale.

On February 19th will occur the annual sale of Duroc Jersey bred sows that will be made by Gilbert Van Patten & Son, Sutton, Neb. The sale will be held on the farm, one mile from town, as has always been the custom. This is a sale that the breeder of good Durocs can scarcely afford to miss. It is a sale that is deserving of the support of all Duroc men, for Van Patten & Son have fought the fight of the breed all along the line and have certainly done much to further the interest of every breeder of red hogs in the country today. The show record of this herd will compare with the very best of the county, and where show stuff is produced is the place to buy them. This offering is one of the best ever sent out from this herd and will contain a rare lot of choice stuff. The great sire, Uneeda Crimson Wonder, is liberally represented, both in get and by sows bred to him. He is without question one of the great boars of the breed. He is the type of hog that has always appealed to the writer, for he is big and long and sires stuff with great stretch. His daughters are invariably good mothers and good individuals and they are big. This point of size is one that Duroc men generally may well consider, for it is on this very point alone that the Poland China breeders are doing business today. It is not necessary to breed them big without regard to quality, but when one can get the size that they may with the get of Uneeda Crimson Wonder and also get the quality that they can secure with the same animal, they certainly should be well fixed. A number of daughters of Golden Rod King, the 1910 champion, are included in the sale and they are bred to Uneeda Crimson Wonder. The choice stuff in this sale sired by Uneeda is mostly bred to Model Wonder, a son of Golden Model 4th. His dam was by Wallace's Wonder by Crimson Wonder Again We believe he is the best possible selection to mate on the Uneeda stuff and we believe our prediction will come true. Model Wonder is certainly a very promising young boar, was the writer's choice of the under six months' pigs at the Nebraska State Fair last fall, although he did not get a place. With the possible exception of the young boar, Crimson King, owned by H. H. Koenig, he is the heaviest-boned pig in the country. The gilts in the sale are surely big and stretchy, weighing around the 300-pound mark, and not fat. They could easily be loaded with fifty to seventy-five pounds and only make them look well, but they are the better to not have it. The writer would like to see a good attendance of breeders at this sale. These are breeders' hogs and the sort that are profitable to buy. This sale is the day following the Geo. Briggs & Sons sale and the train connections are of the very best. Hotel service is good and these two greatest of all western sales should bring out a good number of breeders. Those unable to attend should send bids to J. C. Price, Homestead representative, and the best possible selections will be made. If you do not have the catalogs of these two great sales send for it at once.

POINTERS.

—B. L. Crowell, Rudd, Iowa, is naming a price on Barred Plymouth Rock cockerels in his advertisement appearing on this page.

—Plainview Stock Farm, Colfax, Ia., are offering Mammoth Bronze turkey toms and pullets, extra fine birds, for sale in their advertisement which appears on this page.

—W. C. Sundermeyer, Rake, Iowa, has thoroughbred White Plymouth Rock cockerels that he is quoting prices on in his advertisement which appears on this page.

—White Orpington cockerels and pullets of the Kellerstrass strain are advertised for sale by Mrs. Geo. H. Elliott, Ottumwa, Iowa, in her advertisement on this page.

—Geo. W. Stewart, Floyd, Iowa, is naming prices at which he can furnish Homestead readers with Mammoth Bronze turkey toms and hens in his advertisement on this page.

—Mrs. W. S. Kern, Plainfield, Iowa, breeder of Barred Plymouth Rock cockerels, writes that she still has some fine cockerels for sale. Her advertisement will be found on this page of The Homestead. She also is offering eggs in incubator lots for sale.

—F. H. Houghton, Marshalltown, Ia., is offering Barred Plymouth Rock cockerels of both matings for sale in his advertisement which appears on this page. He also will have eggs for sale in season. A few fancy Black and Buff Orpington cockerels and females and eggs in season are offered for sale in his advertisement on this page.

—J. Russell Lang, Brooklyn, Iowa, writes: "I can't fill any more orders for Single Comb White Leghorn cockerels. My advertisement has only been running two weeks and I have shipped birds to Nebraska, Kansas and Iowa. I still have a number of Ringlet Barred Plymouth Rock cokerels on which I will make special prices if taken soon." See advertisement on this page.

A. B. Walton, Wilton Junction, Iowa, writes: "Discontinue advertisement for Single Comb Rhode Island Red cockerels, as I am all sold out. I am booking orders now for eggs. My stock are fine and large and of a dark red color and from an extra good laying strain. I got splendid results from my advertisement in The Homestead, two to one of any other paper." See advertisement on this page.

—"The Barred Plymouth Rock cockerels I am offering for sale," writes H. B. Simpson, Albany, Ill., "are of the Bradley strain and are a very finely marked bunch with extra heavy bone. They weigh up to nine pounds and score as high as 91 points. My Single Comb Rhode Island Reds are very nicely marked, weighing up to eight and one-half pounds, and scoring as high as 92 points. These birds were scored by a competent judge and will be priced reasonable according to score." See advertisement on this page.

BLACK MINORCAS

BLACK MINORCAS Eggs in season, 15 for $2, 30 for $3.50, 50 for $5.00. Address H. L. Simpson, R. R. 13, Epworth, Iowa.

GUINEAS.

White Guineas $3.00 pair. They do not stray. Easily raised. Address Ethel H. Shaw, - Monroe, Iowa.

ORPINGTONS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK

EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

Fortmann's Single Comb White Orpingtons

ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once Frank Fortmann, Box 23, Dyersville, Iowa.

S. C. BUFF, BLACK AND WHITE ORPINGTON cockerels, hens and pullets. High quality, prize-winners, scored, unscored. Shipped on approval at reasonable prices. Eggs in season. E. B. Conable, Box C, Independence, Ia.

ORPINGTONS.

MAPLE RIDGE POULTRY FARMS Breeders of B and W. P. Rocks, S. C. W. Orpington, W. and P. Wyandottes, R. C. R. I. Reds, B. C. bantams, P and I. R. duck, M. B. turkeys. Splendid lot young stock ready for winter shows or breeders. Satisfaction guaranteed. Write J. W. Mowery & Sons, R. 2, Hedrick, Iowa.

EGGS S. C. Buff Orpington. A-1 cockerels, 15 prize. Prices $5, $4, $3, $2 and utility pen at $1. Mating list ready. E. N. Suiter, Epworth, Iowa.

300 S. C. Buff Orpington cockerels and pullets, $1.50 and $3 each. A few exceptionally good birds at $5. Our Buffs won 16 premiums at Marshalltown poultry show. H. Cavell, Haverhill, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Barkley, Neola, Iowa.

25 S. C. WHITE Orpington ckls. of the Kellerstrass strain for sale at bargain prices. Address M. D. Korns, Hartwick, Ia.

Choice Crystal White Single Comb Orpington Ckls. Kellerstrass strain. H. A. Hamilton, Yutan, Neb.

Choice S. C. Buff Orpington ckls., large golden buff birds. Owens' strain. Reasonable prices. Evergreen Poultry Yards, R. 4, Waterloo, Iowa.

CRYSTAL WHITES direct from Kellerstrass ckls. $2, $3, $5. Trios and pens. Eggs, $8 per 100. Also S. C. Buffs. Orpington Farm, Big Rock, Ill.

COCKERELS, Kellerstrass S. C. White. Bred direct from 1st prize winners at Omaha, Sioux City. Nettie Crane, 2114 Ave. C, Council Bluffs, Ia.

Kellerstrass Strain Whites. Cockerels and pullets. $2 each. Address Mrs. Geo. H. Elliott, Ottumwa, Iowa.

BLACK and Buff Orphingtons. A few fancy cockerels and females. Eggs in season. "Old Reliable Poultry Yards." F. H. Houghton, Marshalltown, Ia.

CHOICE Buff Orp. ckls. scored by Judge Keeler. Prices reasonable. Fine Buff turkeys weighing up to 22 lbs. Mrs. Isaac Black, R. 2, Macomb, Ill.

WHITE ORPINGTON COCKERELS $2 to $10. Eggs and chicks. Describe your flock. White Wing Poultry Farm, C294, Perry, Ia.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS

EXCLUSIVELY

STOCK AND EGGS SHIPPED ON APPROVAL

Score Card by Shellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city. HENRY G. WALKER, IOWA CITY, IA.

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive circular. Address

P. H. THIEL, - Renwick, Iowa.

Single Comb Reds

BRILLIANT red strain. Reduced price. Need room. Strong, vigorous cockerels $1, $2, $3 and up. Pullets $11 doz. and up. Trios and pens mated. Mrs. Francis Culver, Culverdale Farm, Red Oak, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

Mouser's Reds (Both combs.) Winners in leading shows. Stock scoring to 93½. Mated trios and pens at $10 to $25, few higher. Eggs for hatching. W. I. Mouser, R. 5, Red Oak, Ia.

R. & S. C. R. I. REDS for sale. Choice cockerels and few pullets. Also eggs from choice pens. When you buy here you get the best. O. A. Knerr, Beaver Crossing, Nebraska.

R. C. RHODE ISLAND REDS

Big-bone, vigorous cockerels at reduced prices. Baby chicks and eggs. F. N. Blake, Maquoketa, Iowa.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

S. C. R. I. Red Cockerels $1.50 up. Large healthy birds. Address Mrs. Sophia Rader, Laurel, Iowa.

S. C. R. I. Red Ckls. From high-scoring stock, large, vigorous, rich red birds. Prices reasonable. Mrs. Howard R. Moore, R. 1, Dexter, Ia.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

ROSE C. Red ckls. $2.50, 3 cock birds $3 each. Strong, vigorous, dark red birds. Ancona ckls., hens, pullets $1.50 to $3. Eggs March 1st. J. E. Kafer, Rolfe, Ia.

REMOVAL SALE Sold my place and will sell S.C.R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

R. C. R. I. Red Ckls. Sale prices. Scored $2.00 up. Quality guaranteed. Red Poultry Farm, Randalia, Ia.

FOR sale. R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

S. C. R. I. Red Cockerels Scoring from 90 to 93½, $2.50 to $5.00. Unscored $1.00. Address W. I. Price, Ira, Iowa.

SCORED ROSE COMB Rhode Island Red cockerels and Indian Runner Drakes. Address Archie L. Stark, Pilot Mound, Ia.

ROSE C. R. I. Red ckls. at reduced prices. Also a few White Orpington ckls. Pure bred. Scored. Miss Maggie Henning, R. 1, Ira, Jasper Co., Iowa.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

LANGSHANS.

BLACK LANGSHAN COCKERELS [illegible] and utility stock. Won 72 ribbons at [illegible] shows and since last [illegible] 90 to 95 points. Satisfaction guaranteed. Address R. C. McDuff, Ida. Ia.

BLACK Langshan ckls. for sale. Winners of [illegible] cockerel and pet pen 1, 2, 3, 4 pullets at [illegible] show, 1912. Mrs. Luella Peter, Whitten, Ia.

BLACK Langshan ckls. Big boned, farm raised, satisfaction guaranteed. Unscored 3 for $5. Alex Patterson, Pleasant View Stock Farm, Pomeroy, Ia.

BLACK Langshan ckls., good, big, heavy boned birds. Cockerels $1.50 each or six for $8. Eggs in season. Address J. H. Hayl, Afton, Iowa.

BLACK Langshan ckls. scoring from 90 to 94½ winners at Iowa State Fair. These birds are large heavy-boned. Address A. Dearinger, Reasnor Iowa

Rose and S. Comb Black Minorcas. B. Langshans from our silver cup prize winners. Elmwood Poultry Farm, Blakesburg, Iowa.

B. Langshans, I. R. ducks. Eggs from high scoring pens $1 to $3 per 15. Circular of winnings. Bert A. Randell, Mt. Zion, Ia.

CHOICE extra large, heavy-boned Black Langshans. Write for prices. Eggs in season. Address Mrs. G. H. Tutt, Marathon, Ia.

BLACK and W. Langshans, S. C. Buff Orpingtons, Light Brahams, R. C. R. I. Reds, choice stock prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

WYANDOTTES.

White Wyandottes. My Great Laying Strain

SOME good cockerels at $2 each as long as they last. A few higher. Fine pullets and hens at $1.50 each as long as they last. A few higher. I can mate up pairs, trios and pens to please. My White Wyandottes are bred for beauty and laying quality combined, and if beauty and a good laying strain is desired I certainly can please. Please order direct from this ad, otherwise write me stating just what you want. Why not order today, the breeding season will soon be here. S. Burr, Riverside, Iowa.

A. L. Anderson

Breeder of GOLDEN AND SILVER LACED WYANDOTTES, high-class Indianola, Iowa. 20 miles south of Des Moines.

PURE-BRED WHITE WYANDOTTE COCKERELS

SCORED and utility stock. Also white Holland Turkeys. Eggs in season. Address A. J. MENEFEE, ADAIR, IOWA.

Faha's Silver Laced Wyandottes

BEST in America. Winners at New York, N. Y., Philadelphia, Pa., Little Rock, Ark., etc. Write for catalog. Frank Faha, Jr., Box 620, Dyersville, Ia.

Large Strain of Buff Wyandotte Cockerels

FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

50 W. Wyandotte cockerels and 50 S. C. Buff Orpington cockerels. They are all good, farm raised stock, weighing up to 9 pounds. Prices reasonable. Address A. G. Dreher, Audubon, Iowa.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

W. Wyandotte Ckls. for sale. Some good ones. Won blue ribbon at Franklin and Butler county shows $1 and $1.50 ea. R. S. Tennyson, Clarksville, Iowa.

Silver Laced Wyandotte cockerels for sale. Choice birds. Prices right. Glen and Mae McLaughlin, R. 5, Manning, Iowa.

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address R. B. Rowe, Indianola, Iowa.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

WHITE WYANDOTTE COCKERELS $3, $2, $1.50 each. Mrs. Geo. F. Pierce, Route 4, Sac City, Iowa

White Wyandotte Cockerels $1.50 each. A few Muscovy ducks $1 and $1.50 each. Mrs. T. W. Glass, R. 5, Sac City, Ia.

BUFF WYANDOTTE COCKERELS Farmer's fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

SILVER Laced Wyandotte ckls. for sale. Owing to change in location must close out early at prices that will take them. S. R. Young, Greenville, Ia.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

W. Wydts.; sired by pure Keeler ckls. Write for prices on high-scored ckls. Unscored ckls. $1.50 ea.; hens $1 ea. Mrs. C. A. Robinson, Griswold, Ia.

PARTRIDGE Wyandottes, Buff Wyandottes. Scored ckls. $2 and up. unscored and pullets $1 each. Get busy. Address Thos. L. Morlan, Indianola, Ia.

Partridge Wyandotte ckls. and pullets from high-scoring birds at a low price. Eggs in season. Good Bros., Montezuma, Iowa.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Ilsley, Milo, Ia.

Silver Laced Wyandottes, Barred Rocks, White Crested, Black Polish, yearling and young stock for sale. Wm. Neiers, L. B. 45, Cascade, Iowa.

PARTRIDGE WYANDOTTES. The Beauty breed. Some choice ckls. for sale. Eggs in season. If you want good stock write H. Nobbling, Perry, Iowa.

SILVER Laced Wyandottes. Large, well-marked cockerels at $2.00 each or three for $5.00. Twenty-five years a breeder. O. M. HEALY, Bedford, Ia

PLYMOUTH ROCKS.

EVERGREEN LAWN FARM

M. HUMMEL, Proprietor, MONROE, IOWA,

Has for sale 200 Barred Plymouth Rocks with large bone, finely barred, from high-scoring, first-prize-winning stock. We won 37 prizes at our last showings.

BARRED Plymouth Rock ckls. (Pullet bred exclusively.) It does pay to buy heavy framed, vigorous, healthy, well-bred cockerels for years. My birds win at all large shows wherever exhibited, from a clean sweep to a single second. Prices $2.50 each. These cockerels will improve your flock. Now is the time, send your order today. Satisfaction absolutely guaranteed or money refunded, less express charges. Mention Homestead. This ad. appears but once. Jno. Peterson, Box 29, Randall, Ia.

White Plymouth Rock Cockerels! TO close them out by Feb. 10th, am selling at $1 and $2 each. I won 1st and 2d cockerel at Grinnell. They weigh from 7 to 10 lbs. each, good color, shape and nice yellow legs. Order from this ad. They are the kind that will please you. Address **Chas. L. Berry, R. No. 6, Iowa City, Iowa.**

BUFF PLYMOUTH ROCKS BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address **J. O. KOERTH, - Ionia, Iowa.**

Big Barred Rock Cockerels 200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address **Theo. Martin - - Bellevue Iowa.**

BARRED ROCK COCKERELS

COCKERELS nearly sold out. We still have a few choice cockerel mating pullets to sell at $2 each. Address **MASON C. OGG, Monroe, Ia.**

WHITE ROCK COCKERELS FOR SALE

SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Derwick, Iowa.

"PARTICULAR" BARRED PLYMOUTH ROCKS THE winning and laying kind. Cockerels $2.00, $3.00 and $5.00 each. Large bone, clear color, deep, narrow barring. Mated trios $5.00 and $8 00; pens $10-$14. Birds returned at my expense if not satisfactory. Address J. M. Detwiler, R. 2, Dunlap, Iowa.

IVORY WHITE ROCKS S. C. Orpingtons. R. C. Leghorns, Wyandottes. Holland turkeys, Indian Runner ducks. Embden geese. Scored cockerels, pullets, hens for sale, $4.50 to $10. Eggs in season. $1 to $10 per 15. Address Ivory White Poultry Farm, Greene, Iowa.

White Rock Cockerels

EXCLUSIVE. Strictly high-class, 125 from 6½ to 10 pounds. Prices for quick sale, $1, $1.50 and $2. Eggs in season. A. C. BINNIE, Alta, Iowa.

White Rock Cockerels

STRICTLY high-class. Will close out my cockerels at the following prices: $2 each, 3 for $5; 6 for $9.00. Money back if not suited. Address **JOHN W. HOUSELOG, Bellevue, Iowa.**

FOR SALE WHITE and PARTRIDGE Plymouth Rocks of the best strains, good size, shape and color. Before you buy write me. My prices are right for quick sale. Address **BERTEL HANSEN, Alta, R. 2, Iowa.**

MY ENTIRE FLOCK OF BARRED ROCKS and Mammoth Bronze turkeys for sale. Some prize winners. Address Mrs. P. L. Carroll, Hampton, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Backman, Blakesberg, Ia.

Bradley Barred Rocks and S. C. Reds Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

For Sale Full-blooded Barred Plymouth Rock cockerels. Large and well barred. First prize at the Lyon county fair. $1.50 and $2 each. Address Mrs. M. J. McKenna, Rock Rapids, Iowa.

B. P. ROCK CKLS. Big heavy-boned fowls from excellent foundation. Choice markings. $1.25 to $2.50. Address **F. R. BARRETT - CADAMS, NEB.**

BARRED PLYMOUTH ROCKS FOR SALE 200 B. P. Rocks that will please in quality and price. Large and evenly barred. Try us for a square deal. **C. G. GOOD, Ogden, Iowa.**

Barred Plymouth Rock Ckls. and pullets from winners at leading shows. Large birds, fine egg records, from $1 to $5 and satisfaction guaranteed. Address J. F. Davidson, Lamont, Iowa.

HIGH-scoring 30 choice B. P. Rock ckls., a fine lot of big, even, narrow, deep barred. Have raised them for 15 years. Price $1.00 to $2.00 each. Address Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

40 B. P. ROCK and Golden Wyandotte ckls. Narrow barred and that have the quality. Also one million strawberry plants. Special prices to Homestead readers. J. L. Todd, R.3, Des Moines, Ia.

WHITE Rocks. Ckls., comprising winning points of show birds, from high scoring parent stock. Eggs by setting and 100 guaranteed to be high-class. Prices reasonable. Mrs. E. S. Wolcott, Richland, Ia.

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Mammoth Pekin ducks. Prices reasonable. Mrs. M. W. Coan, Little Cedar, Iowa.

75 Fine Barred Rock ckls. and 50 Mammoth Pekin ducks for sale. Write for prices. Address Wm. Meyer, R. 1, Blue Earth, Minn.

75 BARRED ROCKS and S. C. Reds from high-scoring, farm-raised stock, $2.00 to $3.00 each. Mrs. Jas. McNally, Victor, Iowa.

BARRED Plymouth Rock cockerels. E. B. Thompson Ringlet strain. Prices right according to quality. Address Otto Pfeiffer, Gordon, Nebraska.

White Plymouth Rock Ckls scoring 93½ to 94½. Price $5 each for sale yet. Mrs. E. C. Turner, R. 1, Griswold, Ia.

BUFF PLYMOUTH ROCKS Best breeding. Fine birds. Cockerels $1.50. Pullets $1.00. Eggs $1.50 for 15. W. M. Black, Knoxville Ia.

PLYMOUTH ROCKS.

BUFF ROCKS

WINNERS of the 2d best cock, cockerel, hen and pullets at the N. W. District meet of Buff Rock club at Grinnell, Iowa, January 1 to 4, 1913. Also winning silver cup for largest amount of Buffs scoring 90 points and better. 9 competitors, 94 birds in class. Choice cocks, cockerels and hens for sale at $1.50, $2, $3 and $5 each. Write your wants. Address **M. E. KRAFT, R. 2, Brooklyn, Iowa.**

Barred Plymouth Rock Cockerels Some fine pen headers for sale. Write **Chas. E. Nelson, Boone, Iowa.**

WHITE ROCK cockerels and pullets $1.00 each. Scored birds scoring 90 to 94, $1.25 to $2.00, from prize winners. Mrs. G. W. Shaw, Monroe, Iowa.

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

CKL. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

Thoroughbred White Plymouth Rock ckls. for sale at $1 to $1.50 each. Address W. C. Sundermeyer, Rake, Iowa.

Pure-Bred Plymouth Rock Cockerels for sale $1.50 each. B. L. Crowell, Rudd, Iowa.

100 FINE Barred Plymouth Rocks hens and pullets. A good useful lot. Best breeding, good layers. Address Orville O. Jones, York, Nebraska.

BARRED Rocks. Both matings. Cockerels and eggs in seasons "Old Reliable Poultry Yards." Address F. H. Houghton, Marshalltown, Iowa.

BARRED Rocks, S. C. R. I. Reds. Scored ckls., both varieties, evenly marked, extra heavy weight. Priced according to score. H. B. Simpson, Albany, Ill.

FOR sale. White Plymouth Rock cockerels. Utility stock, farm raised. Fishel strain, $1.00 to $2.00 each. Address C. H. Sprague, Clinton, Illinois.

BUFF Rocks. Cockerels, hens, pullets, eggs, bred successfully 15 years. The very best. Lowest cost. Address J. H. Kelley, Altoona, Iowa.

FOR SALE---W. P. Cockerels at $1.50 Each. Address Moncrief Bros., Center Junction, Iowa.

POINTERS—I have some of the best Buff Rock cockerels I ever raised. Fine, large, healthy birds. Prices right. Address C. J. Henline, Garwin, Iowa.

FINE White Rock cockerels from large, farm-raised, prize-winning stock, at reasonable prices to quick buyers. Mrs. Jas. Pedley, Britt, Iowa.

LEGHORNS.

SINGLE COMB BROWN LEGHORN

Cockerels and hens. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. **J. A. PENN, Phone 87, ALTA, IOWA**

Rose Comb Brown Leghorns
EXCLUSIVELY.
15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $5; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

STANDARD line-bred S. C. White Leghorns. Bred for exhibition and utility combined. Won 1st ckl. Grinnell, Ia.; 3d ckl., 2d pen, Ottumwa, Ia.; 3d ckl. Belle Plaine, Ia.; and 3d on market eggs, Iowa State Fair. Pullets for sale. Birds shipped on approval. Address C. E. Groff, Guernsey, Iowa.

I Have Sold My Farm

AND will locate near New London, Iowa, March 1, 1913, where I will continue breeding the best possible in S. C. Brown Leghorns. 8 cockerels, $2.00 each. Circular free. Orlando Jacobs, Mediapolis, Ia.

SINGLE COMB BROWN LEGHORN hens, cockerels and pullets, heavy-laying strain, 75c and $1 each; also White African guineas and White Holland turkeys. Satisfaction guaranteed. Edw. Dooley, Selma, Ia.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address **R. S. Ketcham, Box H, Boonville, Indiana.**

Must Sell My choice flock of S. C. W. Leghorn hens and pullets. Young's strain. As I have to move Mar. 1, will make special prices for quick sale. C. H. Drake, Hazleton, Iowa.

S. C. W. LEGHORNS Cockerels for sale. Vigorous, free range stock. Scored birds $1.00 to $5.00. Eggs in season. Address W. C. Kimball, R. 1, Shellrock, Iowa.

S. C. BROWN LEGHORNS B. P. Rock cockerels good stock. Write for prices. Address Ida Hepp, R. D. 1, Audubon, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. **F. Bollman, Salt Lake, Ia.**

R. C. White Leghorns. A choice lot of pure white cockerels $1.25 each. Three or more, $1 each. Eggs in season. Mrs. Geo. H. Tutt, Marathon, Iowa.

S. C. W. LEGHORNS. Young's strain, unscored $1, others scoring to 94½ points. Eggs $5 per 100. Mrs. Wilson McIntyre, Red Oak, Iowa.

R. C. W. Leghorns $1 ea. Scored birds scoring 91 to 94 at $1.25, $1.50, from prize-winning stock. Ben R. Poortinga, Monroe, Ia.

FOR SALE Rose Comb Brown Leghorn cocks and cockerels. Write for prices. Address F. Bowman, Eldora, Iowa.

S. C. WHITE LEGHORN ckls. Chalk white and bred to lay. The sweepstake winners. Eggs for hatching. J. M. Williamson, R. 1, Des Moines, Ia.

Buff Leghorn Ckls. $1 and up. Eggs in season, 15 for $1; 100 for $4. Rose and single comb. Address K. Brunia, R. R. 1, Pella, Iowa.

Choice R. C. Brown Leghorn cockerels at $1 each 6 for $5. P. W. Reece, R. 3, Elmore, Minnesota.

S. C. W. Leghorns, extra good birds, $10 per doz. Won 1st and 2d at Maquoketa this fall. Mammoth snow white Holland toms $5 ea. Mrs. Geo. Roe, Bellevue, Ia.

R. C. B. LEGHORN Pullets and young hens for sale from prize-winning stock, $10 per dozen. Address Mrs. J. J. Griffith, Lorimor, Iowa.

FOR SALE COLLIE PUPS, S. C. B. Leghorn cockerels, $1 each or 6 for $5. Mrs. A. N. Bonnett, Birmingham, Iowa.

R. C. B. LEGHORN Cockerels early hatched, 75 cents and up. I. R. drakes and ducks 75 cents and up. Mrs. G. W. Brockway, Clarksville, Ia.

TURKEYS.

StraterBros., Monroe, Ia.

FOR SALE. MONSTER MAMMOTH BRONZE TURKEYS, sired by Iowa King, score 98, and 400 Barred Plymouth Rocks, sired by a son of the Chicago first prize winner, that have the size and quality. PRICES REASONABLE.

Mammoth Bronze Turkeys

IF in need of turkeys of size and quality at farmers' prices, write J. D. Smith, Montezuma, Iowa.

Mammoth Bronze Turkeys WITH SCORE CARDS from 94 to 96¼. Also a few good Silver Laced Wyandotte cockerels. Address Mrs. D. C, Molesberry, Plymouth, Iowa.

MAMMOTH BRONZE TOMS sired by a 50-lb tom. A fine male collie. Registered Holstein cows. Address **E. J. THOMAS, West McHenry, Illinois.**

FOR SALE Pure-bred M. B. Turkey toms and hens choice of a flock of 160 sired by a 40-lb. tom large healthy birds. R. H. Coyle, Cascade, Ia.

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

Mam. Bronze Turkeys Fine young toms and pullets, good size and markings. Prices right. Frank Hickman, R. 2, Leon, Ia.

FOR SALE Bourbon Red turkeys. large, big-boned, strong and vigorous. Address A. P. Lassen, R. 2, Marion, Iowa.

FOR SALE---Large-boned, White Holland toms $4. H. M. Williams, R. 6, Spencer, Iowa.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. **LONGWORTH'S, Polk, Iowa.**

FOR SALE Bourbon Red turkeys. Toms $4.50, hens $3.25. Time limited to two months. Address S. B. Moyle, Hillsboro, Iowa.

Mammoth Bronze Turkey Toms for Sale. Fine birds. Mrs. T. M. Neal, R. 2, Bristow, Iowa.

FOR SALE Choice M. B. turkeys, toms and pullets. Also choice barred P. Rock Cockerels. **Ring Bros., Newton, Iowa.**

MAMMOTH BRONZE TURKEYS S. C. White Orp. cockerels, Barred Rock cockerels. Mrs. J. A. Campbell, Manning, Ia.

FOR SALE Pure-bred, white winged, Buff or Bourbon Red turkeys. Address Wm. Oakland, Blairsburg, Iowa.

FOR SALE Pure-bred M. B. turkeys, sired by a 42-lb. yearling tom. Write for prices. Sam Thronson, R. 2, Lake Mills, Iowa.

BUFF TURKEYS A few extra fine toms and hens for sale. Mrs. L. C. Dennison, R. 3, Monmouth, Ill.

WHITE HOLLAND TURKEYS ELEPHANT strain. Both sexes. Prices right. Mrs. J. H. Hanlon, Lawler, Ia.

BOURBON Red Turkeys. A few nice toms for sale. Good color, large bone and healthy $4.50 each. W. M. Peterson, Route 3, Corning, Iowa

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. Foster, Caldwell, Ohio.

M. B. Turkeys White Wyandotte ckls. Pekin ducks. Prices right. Address Mrs. A. Kitson, Audubon, Iowa

M. B. TURKEYS Giant strain. Marked right and priced right. Address G. A. Molesberry, Plymouth, Iowa.

White Holland Turkeys. Extra large. Eggs and trios furnished. Prices right. Address Mrs. C. J. Way, Bussey, Iowa.

Mammoth Bronze Turkeys Sire scoring 93¾ Toms $5, hens $3.50. Address Geo. W. Stewart, Floyd, Iowa.

FOR SALE M. B. turkeys—toms and pullets. Extra fine birds. Address **PLAIN VIEW STOCK FARM, Colfax, Iowa**

WHITE HOLLAND Turkeys, Barred Plymouth Rocks, Pekin ducks, extra large and from prize winners. Address Fred Post, Moulton, Ia.

M. B. TURKEYS, both hens and toms, large boned and nicely marked for sale. Satisfaction guaranteed. Address F. J. Scantlebury, Hampton, Ia.

White Holland Turkeys. About 50 choice toms and hens, farm raised. Address Mrs. Lloyd Clark, Greenfield, Iowa.

FOR SALE---Mammoth Bronze Turkeys Toms $5. At home. Mrs. J. C. Martin, R. 5, Manning Iowa.

W. H. TURKEYS. Hens $3, toms $5. S. C. B. Minorca hens and pullets. Ckls. not related. $1 each while they last. Mrs. H. A. Wohlsdorf, Lawler, Ia.

GEESE.

TOULOUSE GEESE B. P. R. cockerels. I am offering 100 choice B. P. Rock cockerels, Easton-Shellenbarger-Thompson strains $1 to $2, P. R. Rock hens and pullets for sale at $12 a dozen. **25 Toulouse Geese, very choicest.** Ganders and hens. Won first and second at Sioux City show. James Cockerton, Whiting, Ia.

100 PURE BRADLEY B. P. R. Ckls. $1 to $5 each, some sired by 1st and color special cock at Des Moines show. Also 75 ckls. bred pullets by same sire. W. E. Ruffcorn, Defiance, Iowa.

BABY CHICKS.

BABY CHICKS. Baby chicks and eggs for hatching from 10 varieties of vigorous, farm-ranged birds. Our mammoth coal-heated incubator is the largest in Nebraska. Maplewood Poultry Farm, Exeter, Neb.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls, and pullets for sale. W. W. Vaughn, Marion, Iowa.

BRAHMAS.

I STILL have a number of those large-boned, vigorous, farm-raised cockerels for sale, bred from a heavy laying, prize-winning strain. Scored and unscored. Write me for prices on eggs and baby chicks before you place your order for the coming season. Two pens headed by 1st prize winners, besides a fine farm range flock. Prices low as the lowest. Address **H. E. HUSTON, Iowa Falls, Iowa.**

LIGHT BRAHMA COCKERELS

THEY have heavy bone and good markings. Have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address FRANK P. HEALY Bedford, Iowa.

Light Brahma Cockerels

BETTER THAN EVER. Large, vigorous, well-marked birds. Eggs in season. Address **FRANK A. JOHN, - Bedford, Iowa.**

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

DUCKS.

FOR SALE Large Pekin ducks and drakes, selected from large flock. Prices $2.00 to $2.50 each. Address Leo Flynn, New Hartford, Iowa.

I. R. ducks, both fawn and white, and the English pencilled. Special prices on eggs for Feb. and March orders. Nishna Collie Kennels, Oakland, Ia.

FAWN and White I. Runners. Unrelated trio $5. Females $2 each. Write for prices on high-scored drakes. Address Mrs. C. A. Robinson, Griswold, Ia.

INDIAN RUNNER DUCKS $1.50 each. Rhein-hard strain. Address **Mrs. G. W. SHAW, Monroe, Iowa.**

INDIAN RUNNER DUCKS and Toulouse Geese Ducks $1 to $1.50; geese $2, ganders $2.50. Elsie McKibben, Hazleton, Iowa.

PEKIN DUCKS W. Wyan., choice, large stock, desirable breeders, sure to please. Write or what you wish. E. S. Dyas, Bellevue, Iowa.

Genuine English Walton white egg Runners. Ideal duck for farmers. Send for leaflet. E. D. Alkire, Dallas Center, Iowa.

DOGS.

SCOTCH COLLIES

STRONG in the blood of Buckler, a grandson of the great Southport Student. Also Parbold Piccalo by Anfield Model. These great breeding dogs at the prices ordinarily asked for common stock. Address A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

SCOTCH COLLIE PUPPIES

HIGH-class puppies, the **best blood** in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. **T. A. STEVENSON, SHANNON CITY, IOWA**

Collies Choice pups and brood bitches, trained drivers. Sales list free. AIREDALES, for hunters, watch dogs, companions, have no superiors, state your wants. P. L. Savage, St. Charles, Ill.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cummings, Ia.

FOR SALE High grade Scotch Collie pups. Bargains if taken soon. Address, **T. A. GOUGH, Bristow, Iowa.**

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

M. B. Turkeys, Pekin Ducks

I HAVE about 7 M. B. turkey toms and a number of Pekin ducks, all first-class stock, for sale. Address Mrs. G. M. Grinstead, Mitchellville, Iowa.

FINE THOROUGHBRED POULTRY 48 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 198th Annual Poultry Book. Address **R. F. Neubert, Box 807, Mankato, Minn.**

Barred Rocks. Bronze Turkeys

TOMS 23 to 26 pounds $5 and $6. B. P. Rock cockerels 7½ pounds $1.50 each; 8 pounds $2 each; 9 pounds $2.50 to $3.00 each; 9½ to 10 pound $4.00 each Weights guaranteed. M. V. Leeper, Redfield, Iowa.

EGGS, 63c a dozen! You can get premium prices in any market if you'll read "Poultrology" and learn how Yesterlaid Egg Farms produce and market their eggs. 144 pages--70 pictures. Get one now. 4dition limited. Yesterlaid Egg Farms, Dept. 45, Pacific, Mo.

WANTED TO BUY Pure-bred poultry, turkeys ducks and geese. State variety, number you have and price in first letter R. V. Keeney, Fairground Station, Des Moines, Ia.

THOMPSON Imperial Ringlet and Bradley Bros. pullets $2, ckls. $2 to $3. Stock direct. Eggs in season. Wm. Kerr, Box B, Winthrop, Iowa.

WHITE Feather Poultry Yards has high-scoring W. Wyan., W. Holland turkeys. Kind that win. Book orders early. Mrs. C. F. McLochlin, Gray, Ia.

Horses Wanted Will trade $3,000 equity in one of best quarters in Stanley Co., S. D., for horses. B. Datin, Faith, South Dakota.

SILVER Spangled Hamburgs. A few young roosters for sale $2 each. White guineas per pair $1.50. Mrs. David Reid, Ida Grove, R. 2, Ida county, Iowa

S. S. HAMBURGS Cockerels and eggs for sale. Prices right. Address H. C. SCHRAGE, Bristow, Iowa.

Closing-Out Sale Of Silver Spangled Hamburgs. State fair winners. $1.00 each. F. L. Reinhard & Son, Ottumwa, Iowa.

75 White P. Rock and Indian Game cockerels, large, strong, good shape and color, $1, $2 and $3. Address Hennessy Bros., Strawberry Point, Ia.

HOW TO HANDLE COWPEAS.

To the Editor

If you have space in your columns I would like to offer my objection to your advice given a Kansas subscriber in regard to cowpeas. In the first place you advise sowing one-half bushel per acre which I think is not enough. I have planted about that amount in three-foot rows and cultivated them where I was working for the yield of seed and find that this way will make considerable more than broadcast. But for hay and soil improvement I use five pecks per acre put in with a grain drill and very much prefer this way for soil improvement, as it gives better root system.

Then you advise plowing under the crop. I object to plowing under as valuable a crop of hay as the peas would make. If the crop could be cut and cured for hay and a cover crop of rye sown after the peas were removed, then the hay could be fed to stock and the manure returned to the land. In this way the full feeding value of the crop would be saved and if the manure is properly handled probably 90 per cent of the manurial value of the crop would be returned to the land. The following spring the rye should be turned under which will give a good deal of humus to the soil and follow with peas again. In this way a good lot of winter pasture can be had and a paying crop secured instead of losing the use of the land for one season.

My method of curing pea hay is to cut when the pods begin to turn brown, rake into windrows the next day and the following morning after the dew, is off, turn the windrows over with the same rake, then in the afternoon put into shocks and let it stay until cured. When a handful can be taken from the center of a shock, and no juice twisted out of it, it is ready to go to the barn. If the crop is handled in this way you will have hay that is second to none. I put up several hundred bales right from the field last summer, dragging the shocks to the press with a mule. I handled it the way I have described, letting it stay in the shock about ten days, and have as nice hay as I ever saw. It must be remembered however, while peas are great nitrogen gatherers they draw on the supply of phosphorus.

I think if your Kansas subscriber will handle his field this way for about two years then after the second crop of peas is removed, disk the land well and seed to small grain, using a liberal amount of high-grade phosphate, it will not take an expert to note the increase in yield.

J. A. Bradford. Jr.

Lauderdale county, Tenn.

THE SHREDDING OF CORN FODDER.

The following communication from one of our Indiana subscribers, Will Meyer, conveys some interesting information on the problem of shredding corn:

I have read several articles in your paper recently in regard to handling a corn crop and will say that I think the only way to handle fodder is to shred it.

I will admit that shredding requires a cash outlay, while husking by hand can be done by the owner of the crop himself if he sees fit to do so. Corn and fodder also have to be well cured and dried out to shred and more help is required. However, you will lose time and money if you do not have help enough and it is on this point that I want to give you my experience as to how my neighbor and I overcame this difficulty.

We had about thirty acres of corn and we knew our chances of hiring a shredder would be slim. Also that we would have to hire most of our help, as there were not enough near us who cared to shred, so we decided to run an outfit of our own. My neighbor had an eight-horse gasoline engine and I bought a two-roll shredder and we started to work. We set our machinery, backed our corn wagon under the elevator and then each of us took our wagon with rack on and started for the cornfield. Each one loaded his own wagon, the other one handing up the corn. When both wagons were loaded we drove up to the shredder and each one would unload his own wagon, the other feeding the shredder. When our corn wagon became full we unloaded the grain in the crib and went back to work.

In this way we cribbed from sixty to seventy-five bushels in a day and finished our thirty acres in about fourteen days. By this method two of us handled our entire corn crops and we like the plan very well indeed.

It must be conceded that an enormous task would have been involved in husking out this thirty-acre field of shocked fodder. We venture to say that instead of the work being done in fourteen days as was the case in this instance it would require all the spare time that could be made available during the entire winter season and furthermore the shredded fodder either in the stack or mow will keep in much better condition than if it were in the shock in the field. Where a plan like that suggested by Mr. Meyer is carried out it solves the help problem in an ideal way so that the corn is quickly put in the crib and the fodder stored in such condition as to give it the highest possible feeding value.

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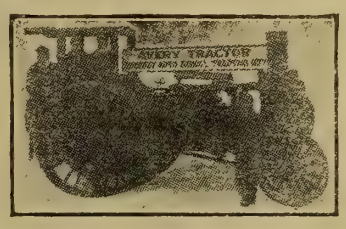

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References: Commonwealth National Bank, Kansas City, Mo.; Dun's or Bradstreet's Mercantile Agencies.

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The *reason* is because the EMERSON patented Seed Box and Plates are *different*. The plates are larger in diameter than others, and allow *ample* time for corn to enter the cell, no matter how much the corn varies in size or how fast you drive. You can plant more acres per day with the EMERSON, because the Emerson is a *very* light draft planter. It is easy to get an even stand and accurately checked field with the EMERSON.

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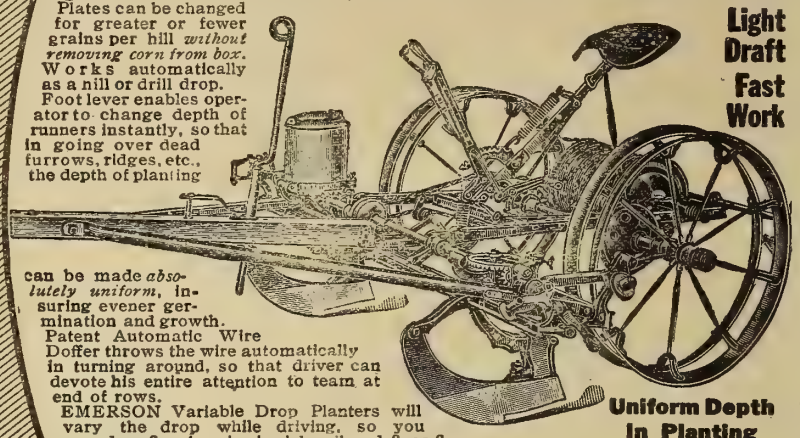

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HIGHWAY IMPROVEMENT.

The question of improving the highways of the state is one not only of general interest, but of practical importance. Three years ago I called a good roads meeting to be held in Des Moines and to be composed of county officials and representative men of the various counties and of the commercial organizations of the state. The meeting was well attended and much interest was mainifest, but there were divergent views and a wide difference of opinion as to the methods to be pursued. However, an organization was formed and annual meetings thereof have been held with increasing interest. Great good has been accomplished and harmony of action has resulted. The recent session of this organization has with practical unanimity recommended and through its committee will present to you several important matters of which I ask your careful consideration, and among which are the following:

To submit to the people of the state at the next general election the question of a bond issue for road improvements.

The levy of a one-mill tax for the state aid in the improvement of highways.

The establishment of a permanent state highway commission with adequate powers.

The appointment of a county engineer in each county by the board of supervisors thereof, subject, however, to the approval of the state highway commission.

A classification of rural highways.

A compulsory drag law, a non-divertible drag fund and simplifying and making effective our present laws on road dragging.

A recodification of the road laws of the state.

Heretofore I have emphasized the importance of properly dragging, grading and draining the roads and making use of materials at hand, because I did not believe that our people were ready for anything more, and also because those things constitute the first principles in the construction of any kind of roads. By the above means we have greatly improved the highways in almost all parts of the state, but I believe we have now arrived at a period when, without in any degree lessening our efforts along the lines of improvement above suggested, we ought to begin the construction of permanent roads of stone, gravel, etc. As evidence of the fact that there exists a great deal of sentiment with reference thereto I have had presented to me by F. J. Tishenbanner, Gilmore City, contracts signed by individuals and commercial organizations representing every city and town along the entire length of the road from Des Moines to Spirit Lake, a distance of more than 200 miles, the signers of which agree to have hauled and deliver on the road free of charge, crushed stone sufficient to construct a stone road along the entire length of the route, if the stone is furnished to them at the various railway stations without cost. If this expression represents the feeling of the people of the state generally, and I have no reason to believe that it does not, something ought to be done to afford opportunity for using this volunteer labor.

It has been suggested that bonds be issued to aid in the construction of permanent roads. There certainly could be no harm in submitting the question of a bond issue to the people to let them decide whether they want to issue bonds or not. It has also been suggested that a general tax levy of one mill be made. This would not be burdensome, but would yield, on the basis of our present valuation, only about $750,000. This is only about 50 per cent in excess of the amount that is now raised by the license on automobiles, and inasmuch as a great deal of the value of the automobile license is practically lost because of the wide distribution that is made of it, I would suggest that instead of one mill levy you so amend the law as to place the expenditure of the automobile fund in the hands of a central authority.

If we are to undertake the construction of permanent roads it is necessary that we have a permanent and active state highway commission and this commission should have charge of the expenditure not only of the automobile license, but of any other funds which the state may raise or

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This book is a gold mine of information to the farmer who is looking for bigger and better results. Ordinarily this book is sold for 35 cents per copy, but for a short time we will mail a free copy, postage prepaid, to the readers of this paper, or until a certain number have been distributed. If you will write at once you will be sure of getting a copy by return mail.

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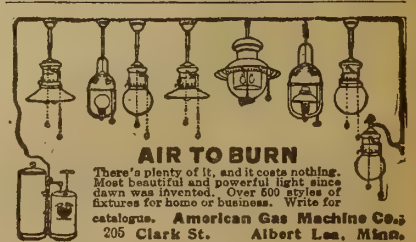

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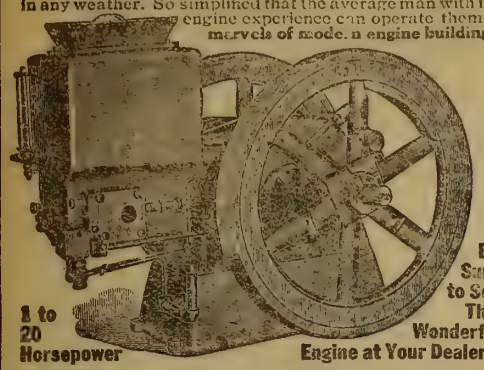

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provide for aid in road improvement. If the automobile license was to be thus used it would be immediately available, whereas the return from a tax levy would not be available until 1914.

In my discussion of the employment of prison labor I have suggested the use of convicts in road building and also in furnishing and preparing stone to be used in highway construction. If you will therefore, provide for the use of the automobile license or provide some other funds for paying the freight on material with such volunteer labor as has been above suged in delivering the stone on the roads and with convict labor for use in building them many miles of permanent road may be made at very low cost. Means should also be provided for the purchase of asphalt or other material to be used as a binder, as it is generally conceded by those best informed in the matters of road construction that loose stone or gravel will not resist the wear incident to automobile travel. I trust that you will give the subject of better roads most thoughtful consideration and write into our laws some effective legislation with reference thereto.—[Gov. B. F. Carroll's message to Iowa legislature.

GROWING GREEN THINGS.

To the Editor of The Homestead:

We often wonder why so many people still follow the practice of buying their vegetables from the groceryman when it is so easy and delightful to grow ones'own green, crisp, tender vegetables in springtime and summer. Our garden has been more to us than any other such a size spot of ground on the farm. It is the height of our ambition to grow a better and earlier garden than any of our neighbors. When springtime arrives with its bright, sunny days we cannot be contented indoors.

Last year we did all the work in the garden except the plowing. We even stuck the pole beans, tied the tomato vines up to the stakes and later on we also enjoyed the fruits of our labor when we could go out in the cool morning and pick the tender, green beans and peas with the big, red tomato for our dinner. Besides we raised lettuce, beets, cucumbers and cabbage, growing enough of the latter two to make pickles and kraut. Our garden supports us through the summer season except our groceries and many of these are bought with our "green stuff."

We intend to grow our own vegetables as long as we are able to use the hoe and when we get too old to make our own garden we will hire someone to make it for us. We are not capable of offering advice, but we do think that it would be a good idea for those who have heretofore depended upon buying their vegetables to try raising a garden of their own the coming season and note results. Do not let another springtime pass without making an effort to cut down the expense of living. A small garden will do wonders in this direction and you will get a great deal more from your little garden than you thought possible to produce on a small amount of ground.

To grow a garden successfully the soil must be rich, the ground must be well plowed and worked into a good loose seed bed. Another item of importance is good seed. One should not delay in ordering seed until the rush were 1,000 pounds or more below in production. Another bull was brought kept for several years. A new bull of spring for the earlier a vegetable can be produced the greater its value.

S. E. M.

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There's not much vacant land left in Kansas. The five southwestern counties have remained unsettled and undeveloped because of inadequate transportation. The Santa Fe is building new lines to serve this territory, and thousands of farms next season will be put to creating wealth. This is your opportunity to get a good Kansas farm cheap. The terms are advantageous, the results certain.

If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of speltz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

There are some flowing artesian wells in this territory, and everywhere that wells have been put down water comes to within thirty to sixty feet of the surface. Irrigation by pumping will doubtless be commonly practiced, and the tremendously increased yields will pay big dividends on the small investment required for gasoline or oil driven pumps.

The climate is pleasant and healthful. Your boys and girls will find good schools. Churches, social clubs and farmers' institutes are being organized. Rural telephones and free delivery are coming in. In every way development is rapid, and only a few years will give you every advantage that older communities have.

You can secure a quarter section (160 acres) for only $200 down. The price is $10 to $15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

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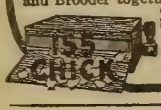
Biggest guaranteed incubator at price—155 egg capacity. *Has hundreds of dead air cells*—only incubator with this special construction—well made—cold rolled copper tank, hot water heat, double disc regulator, deep nursery, high legs, double doors, egg tester, safety lamp. Special price $7.35. Incubator and Brooder together $9.85. Frt. pd. E. of Rockies. Order direct from this ad (money back if dissatisfied) or send today for our interesting big free book.



PROGRESSIVE INCUBATOR CO.
Box 127 Racine, Wis

This Beautiful 20 Year Watch $3.75

Elegantly engraved THIN MODEL, GOLD FINISHED double Hunting case, 7 Jewel American lever movement, stem wind and stem set. 20 year guarantee cent with each watch. Long gold finished chain for Ladies, fob or vest chain for Gents Free.

$3.75

20 Year Guarantee
EXAMINATION FREE. Let us send it C.O.D. to your express office, after you examine it, if you think it is a bargain and equal to any $15.00 watch, pay the express agent our Special price $3.75. Mention Ladies' Men's or Boys' size.
HUNTER WATCH CO., DEPT. 218 CHICAGO, ILL.

Seed 10 Acres an Hour With This Seeder—It's 1/2 Cheaper

Than Best 11-ft. Broadcast Seeder Made

DON'T make a *poor* investment by buying an 11-ft. Broadcast Seeder when you can get the Peoria *Double* Seeder for just *one-half* the money, and you can actually do *THREE TIMES* as much work in the same length of time. Conditions of weather make no difference. The "Peoria" works just as well—wind or no wind. The

Peoria Double Seeder

is absolutely guaranteed to do better work than any 11-ft Broadcast Seeder ever made. It sows every variety of small grain and grass seed, uniformly distributing it. No thin or thick streaks are left behind. The secret of the Peoria Double Seeder is in the *helical* gear which runs with less noise than most friction drive seeders. It will last longer out of doors than any 11-ft. seeder stored. Feed is positive, no clogging, no valves or inside arrangement to bother—casts oats over twelve rows—one hundred acres can be sown in ten hours. With seeder you buy we give you

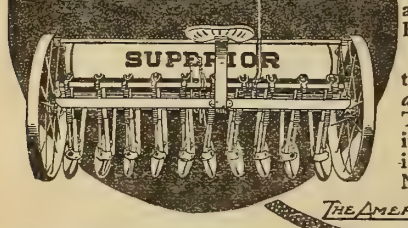
A Perfect Force Feed Grass Seed Attachment Absolutely FREE

Write Now for Free Catalog

This book alone is worth many dollars to you—it is interesting and very instructive. So get *all* facts today. Don't put it off. Let us *prove* to you that this Peoria Double Seeder is the biggest money-making seeder you can buy—don't forget *that!*

Peoria Drill & Seeder Co.
2435 N. Perry St. Peoria, Illinois

SUPERIOR GRAIN DRILLS



WARRANTY—Castings replaced FREE ANY TIME *—one year or 20 years—if shown to be defective.* Disc Bearings Warranted for LIFE OF DRILL; replaced FREE if they ever wear out. Every Drill guaranteed to be and do *all* we claim.

Superior Drills are made in all sizes and styles in plain and Fertilizer—Disc, Hoe and Shoe.

No seed too large; none too small for the Superior Double Force Feed. *Be sure and send for the Superior Catalogue.* Tells just what you want to know. Read it. Then go to your local dealer and insist on seeing the SUPERIOR—"The Name Tells a True Story."

THE AMERICAN SEEDING MACHINE CO. INCORPORATED
SPRINGFIELD, OHIO U.S.A.

Towers' Surface System

Kills weeds; damages no corn roots; enlarges yield

Towers' Cultivator stirs every inch of ground between the rows; makes a dust mulch—to retain moisture and furnish liquid food for the plant; preserves crop roots; slaughters weeds; prevents "firing" of corn. **Increased yield, earlier** maturity of corn, cotton, potatoes, etc., will result if your 1913 cultivator has the name

"TOWER" on the tongue

Lighter draft on team; easier to manage—a boy can do it. Send a postal for our free "Treatise on Corn Culture."

J. D. TOWER & SONS CO., 40th St., Mendota, Ill.

STARK TREES — Best For Over 100 Years

Four generations of fruit tree growing experience, boiled down, is ready for you **absolutely free of charge.** Don't experiment with fruit trees of **unknown** productiveness, uncertain quality. Stark Trees **always** pay big. The secret is in Stark Brothers' perfect method of growing, transplanting, packing and shipping.

50 Years Ahead of Any Other Nursery in America

Why don't you take advantage of our **Special Service Department? All Advice Free to You.** We send you **free** the best scientific methods of preparing your soil for **biggest profits;** show you how to prune your trees, give you best methods of Stark cultivation; how to spray the Stark way. We make your orchard a **winner** and a big money maker. Write us at once for Stark Year Book, complete fruit tree literature and statistics. **Write today.**

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A Record of One Hundred Honorable Successful Years in Business

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Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, **Seed Corn,** Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. Large illustrated catalog of great value to farmers **free.** Mention this paper.

Iowa Seed Co., Dept. D1 ***Des Moines, Iowa.***

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CHEAP Now is The Time to Buy

Prices sure to rise. Save money by buying before advance. Get our special low prices and **free samples** of our Iowa Grown New Crop Recleaned **Tested Clover and Timothy Seed.** Also alfalfa, alsike, sweet clover, all kinds grass seed. **1913 catalog free** quoting all field seeds. Save money by writing

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WIN WEALTH WITH STRAWBERRIES

Fine illustrated book tells how anyone can make big money raising strawberries. Plain and Practical tells what kind to plant in every part of the U. S. Tells of some wonderful success and how you can win. Also where to obtain most profitable varieties of plants at lowest prices. This wonderful **book free.** Send postal. Berry Crest, Box 191, Clarinda, Ia.

FREE Our handsome **Seed Catalogue.** Send your address on a postal today, or for a 2c stamp and the names of two neighbors, actual seed buyers, catalog and packet Early June TOMATO Seeds earliest variety grown, if sent before March 15. Address **COLE'S SEED STORE,** Pella, Iowa. **Seeds**

SEEDS

Reliable and Full of Life

SPECIAL OFFER

Made to build New Business. A trial will make you our permanent customer.

PRIZE COLLECTION Radish, 17 Varieties, worth 10c; Lettuce, 12 kinds, worth 15c; Tomatoes, 11 the finest, worth 20c; Turnip, 7 splendid, worth 10c; Onion, 8 best varieties, worth 15c; **10 Spring Flowering Bulbs,** worth 25c—65 varieties in all; worth $1.00.

GUARANTEED TO PLEASE.

Write today; mention this paper.

SEND 10 CENTS

to cover postage and packing and receive this valuable collection of seeds postpaid, together with my big instructive, beautiful Seed and Plant Book, tells all about Buckbee's "Full of Life" Seeds, Plants, etc.

H. W. BUCKBEE
Rockford Seed Farms
Farm 381 Rockford, Illinois

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

FLOWERS IN HOUSE AND GARDEN.

To the Editor of The Homestead:

Your sacred lilies, hyacinths, freesias, paper whites, and other bulbous flowers in the house are practically through blooming. Throw the sacred lilies away for they are useless, but let the others grow on in some out-of-the-way corner until the tops turn yellow, then set them aside in the pots until next August.

Feed your house plant rather more freely now as the days get longer and new growth starts actively. A strong growing plant will stand liberal feeding, but be careful with those of weaker growth, and never feed a sick plant, unless it shows evidence of being a starved plant, which is seldom the cause. Keep the weak plant a little dry, stir the soil freely, and give plenty of air, but not too much hot sun.

Let your amaryllis rest after it is through blooming by withholding water until it is pretty dry. Keep it just so the leaves do not turn yellow until new growth begins, then dig out the surface soil down to the fleshy roots and fill with a rich loam containing a third of rotten manure. Water freely now and give full sun. Buds develop in the period of rest and a plant that is kept growing seldom blooms well. Properly rested after each blooming period they will bloom twice a year.

If you want your tuberoses to bloom before frost better start them in the house early. They require a long season to mature.

The old-fashioned tiger lily is beautiful in the background, and the new double tiger excels the old single. Plant a few bulbs among your shrubbery.

Golden glow is another hardy plant that is fine in the background. Grows five or six feet high with large flowers, very double, that look like golden balls. The golden glow is the only rudbeckia that is worthy a place anywhere so far as I am acquainted with the family. The catalog descriptions of Purpurea may fool you, for it is nothing more than a coarse weed.

The Japanese lilies of the speciosum family are beautiful, are very easily grown, and thrive most anywhere. Speciosum album is pure white. Rubrum has white background with a rich red stripe down the center of each petal and red dots on the white. They increase rapidly and soon form fine clumps.

Don't plant the Auratum lily, even should the catalog description captivate you, for it is subject to disease, and not one in ten thrives. It is a grand lily when well grown, but not worth the risk of failure.

Plant your lily bulbs deep. When you think you have them deep, go deeper. Don't be afraid to bury them. Put a little sand around the bulbs and cover them a foot deep in ordinary mellow soil, and ten inches at the least in any soil fit to plant them in at all. L. H. Cobb.

THE SMALL GARDEN.

To the Editor of The Homestead:

If the soil is rich and the garden well tended, a small patch of ground will yield an abundant supply of vegetables. For a family of four to six a good plot of ground thirty by 120 feet will be sufficient to grow vegetables for home use.

I planted a plot of ground this size and give here my plan and success. The rows were marked off crosswise of the plot so that each one was thirty feet in length. Four rows one and a half feet apart were planted to potatoes. A double row of lettuce was sown two feet from the potatoes, and a foot from the lettuce a double row of radish was planted. Two double rows of beans one foot from radish and two double rows of peas two feet from beans came next. Then followed four rows of early cabbage and one double row of parsnips. After them were plan a double row of beets

Seed Corn

Home Grown

Direct to you from the Hyde Farm, with all the middlemen's profits cut out. No old seed or elevator stock, but all fresh, strong and of guaranteed germination.

REID'S YELLOW DENT
BOONE COUNTY WHITE

our leading varieties of corn. We also have fancy grades of

Clovers, Timothy, Alfalfa, Cow Peas, Soy Beans, Rape and Grass Seed.

These are exceptionally good and guaranteed by us.

FREE SAMPLES Write today for our FREE BOOK, telling about "Hyde Farm" Home Grown Seeds, also free samples.

HYDE SEED FARMS,
102 Hyde Ave., McFall, Mo.

Great Crops of

Strawberries

and How to Grow Them

IS a beautifully illustrated book of expert information written by America's most successful strawberry grower. It gives the famous Kellogg sure-crop method and explains just how Pedigree Plants are grown on the great Kellogg plant farms in Michigan, Oregon and Idaho. Any man, woman, boy or girl, who reads this book can grow big crops and get big prices. Strawberries yield more dollars per acre than any other crop. Our book tells the whole story. It's FREE to you.

R. M. Kellogg Co. Box 770, Three Rivers, Mich.

Onion Seed

85c per lb. and up

Write for FREE SAMPLES of our new crop onion seed; lowest wholesale prices, and Free Leaflet on onion culture. Catalog Free. All kinds of garden seeds at wholesale prices and freight prepaid.

Henry Field Seed Co., Box 25 Shenandoah, Iowa.

MORE POTATOES PER ACRE

Think of finding one to eleven dollar bills in the furrow, on every acre you plant. It's been done many times. Plant the spaces you skip, sell the potatoes, and have the money. No extra land, no extra work, it costs no more to prepare ground, fertilize cultivate, spray and dig a perfect stand

IRON AGE (Improved Robbins) Potato Planter

This machine soon pays for itself and yet puts real money into your pocket. One seed piece in every space and one only. Uniform spacing. No injury to seed. Ask your dealer to show it and write us for free booklet, *"100 per cent Potato Planting."* We make full line Potato machines, Garden tools, Sprayers, etc.

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Box 1486 Grenloch, N. J.

Hill's Evergreens Grow

All hardy stock—twice transplanted—root pruned. Protect buildings, stock, crops. Hill's Evergreen Book, illustrated in colors, Free. Write today.

D. Hill Nursery Co., Inc., 216 Cedar St., Dundee, Ill. *Evergreen Specialists*

JUNG Jack Rose Early Tomato Seed FREE

In order to acquaint you with the high quality of our Farm, Garden and Flower Seed, we will send a packet of our Jack Rose Early Tomato seed absolutely Free if you send a 2c stamp to pay postage. We will also include a copy of our illustrated bargain list catalog. It's a money saver. Send today.

J. W. JUNG SEED COMPANY,
Fairfield Seed Farm, Dept. 14, Randolph, Wis.

"More Potatoes"

From ground planted secured by use of The KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for CATALOG, price, etc.

A. J. PLATT, MFR.
BOX H STERLING, ILL.

SALZER'S Big Offers

Flower Seeds. Special collection—brilliant bloomers—enough to plant a big garden. Six generous packages rarest seeds—will give you an endless amount of flowers during summer and fall.

14c

1 pkg. Elegant Asters
1 pkg. Lovely Alyssum
1 pkg. Bright Petunias
1 pkg. Brilliant Poppies
1 pkg. Blue Centaurea
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Six packages postpaid for 14 cts. Easily worth 35 cts.

Vegetable Seeds. Salzer's collection of favorite vegetables in generous packages. Will furnish rich, juicy vegetables and lots and lots of them during spring and summer. Enough to plant a big kitchen garden. One package each Salzer's Earliest Cabbage, Short Horn Carrot, Early Market Cucumber, Prizehead Lettuce, Mixed Onion and Flash Light Radish. Easily worth 35 cents—all six, postpaid, for **16c**

Combination Offer. above two for 25 cents or

Send 30c and we add the wonderful New Earliest Red Riding Hood Tomato Novelty, alone costing 15c.

Special Farm Seed Offer

For 10 cents we gladly mail one package each new $1,000 Prize Marquois Wheat, Twentieth Century Alfalfa, Rejuvenated Bonanza Oats, and many other farm seed samples, together with our great seed book.

Don't fail to get our big 1913 catalog and premium list. Free for the asking. Send for it and one or all of the above special offers.

JOHN A. SALZER SEED CO.
124 South Eighth St., LaCrosse, Wis.

DOUBLE QUICK
Seed Corn Tester

Makes complete tests in three to five days. Adapted to the Saturation, the Saw-dust or Sand, and the Earth or Soil test. Six Sizes: 2½ to 66 bushels. This machine is also the

DOUBLE QUICK
Grain Sprouter
or POULTRY SILO

For Sprouting oats for laying hens

Also Starts GARDEN PLANTS Quickly

A useful machine for every farm. Send for free information. **CLOSE-TO-NATURE CO., Colfax, Iowa.**

Each of the same number of days from seed but started at different intervals of the MOON'S INFLUENCE.

I want to send every farmer or gardener a FREE COPY of the interesting booklet SCIENCE AND AGRICULTURE. Don't miss reading this instructive booklet on the MOON'S INFLUENCE over plantgrowth. Send your name now and you will be sure of a copy of a limited edition.

$1000 PER ACRE FROM 40 TOMATOES

FRANK H. GREGORY, Gregory Farm
20 Fairacres, Bay City, Mich.

LET THE WIND PUMP YOUR WATER FOR NOTHING

WHY PAY FOR GASOLINE WHEN WIND IS FREE!
Get a Big, Heavy, Powerful, Light Running, Double Geared

SAMSON WIND MILL

SEND FOR CATALOG

We also build Ideal Feed Mills, Pump Jacks, Hand Grinding Mills for Poultry Raisers, Gasoline Engines, Ensilage Cutters and Brass Candle Sticks

STOVER MANUFACTURING COMPANY
176 Samson Avenue FREEPORT, ILLINOIS

ALFALFA $9.75 Per bu.

Best Non-irrigated Seed—99.6% Pure

95% Germination absolutely guaranteed. No seed better. We sell good seed for $8.00. Also have Turkestan alfalfa. Write now for free samples and save money. Our 76-page book sent Free, giving valuable information on growing alfalfa. Write today.

A. A. BERRY SEED CO., Box 403, CLARINDA, IOWA

Pure Bred Seed Corn

Picked in September, sure growing, big yielding, Reid's Yellow Dent, Johnson County White, Leaming, Improved Silvermine, and Bloody Butcher, grown by us on Sunnyside Seed Farm which we own and operate ourselves. Send today for the free corn book giving full particulars, prices, etc

McGREER BROS., COBURG, IOWA.

beyond which were four rows of early sugar rn. The rest of the plot was put in matoes with the exception of a double row of onions at farther end.

After the potato vines had begun to show signs of maturity, I planted late sugar corn between the hills, and it was ready for use a short time after the early corn was gone. When appetities for radishes and lettuce were satisfied I planted late cabbage in their places. Beans and peas also were gone in time to plant late cabbage in their places.

This plot of ground yielded more than my family of four could consume. Lettuce, beans and onions were either sold or given to the neighbors. I dug three bushels of potatoes for winter use. Thirty head of late cabbage were buried in the late fall. The tomato plants gave us ripe tomatoes in season and my wife put up forty quarts besides. Se we were well pleased with what our small, but rich plot of ground yielded for us. Subscriber.

ABOUT MARKET GARDENING.

An Iowa subscriber writes:

I have a family of boys and the two older ones run the farm and the third wants to do something else. He has a great liking for the garden business and has his hotbeds about ready. We are eight miles from a manufacturing town and he expects to haul his crops to town and peddle them out. He will grow a lot of plants to sell, but don't know how many of each t) grow. About what does the market take? I tell him he ought to wait a year and work with some real gardener and learn about the business, but he thinks he can't wait so long.

If the boy has a real liking for the garden business he is likely to succeed in it, and you are doubtless wise to let him try it. As you say, some experience in the actual business, which might be gained by working for one season or more, rather than less, with a practical market gardener, would be extremely valuable. It would solve for him many practical problems which are sure to come up. But upon the point of the relative demand for plants and apportioning his output to suit the call we can give him some pointers which ought to help.

In the plant market early cabbage and tomatoes are the leaders, and these should lead all others in the hotbed by about four to one. This should be about the proportion whether you work upon a large scale or a small one. To satisfy the different tastes, plant about four varieties of each. And you will want to start at least two sorts of the later or general-crop tomatoes, and the same of late cabbage, only they may be planted in the open in May.

A manufacturing town like yours will take many other plants besides cabbage and tomatoes. He will need to grow peppers, cauliflower, celery, sweet potatoes and a supply of flower plants, such as pansies, nasturtiums and asters. That is, you must grow all of these if you would be able to supply all that your customers call for. And you will have calls for others that you do not have upon your list. Grow quite a lot of peppers and celery; let them rank next to cabbage, but less of the cauliflower. The amount of sweet potatoes to grow will depend upon your people, how much they are in the habit of using, and celery is much the same.

There is money in pansy growing, but it is a little difficult to start them requiring careful touch and attention. The egg plant should be started, for you will have some demand for it, and while the number who use it is limited, those who have the habit want it very much. Sage is another plant which sells very well, as many people want the herb, but do not know how to grow it. Among the flowers it will pay to start the salvia, which is very popular, and growing in popularity rather than declining.

You will always find some people who are willing to pay an extra price for a fancy article. So it is well to have some transplanted plants to offer with the common stock. Take some of the cabbage and tomato plants, just as they show the second pair of leaves, and set them out one inch by one inch in a bed which has been reserved for the purpose. Shade for a couple of days until they recover from the moving. These plants will become very stocky and will readily sell to those who are particular for five cents per dozen more than the common grade. The plant grower must always bear in mind that the profit is in the last dollar.

The five imported Percheron stallions winning the grand champion herd prize over all ages at Illinois State Fair, 1912. Imported by Taylor & Jones, Williamsville, Ill. See advertisement

Trees at Half Price

EARL FERRIS
IOWA'S EVERGREEN SPECIALIST

I will sell you, just as I have hundreds of others, my hardy northern grown trees direct from the nursery row at one-half the price you pay agents for poorer stock that has been out of the ground for days or weeks.

My catalog is my salesman. It costs me only one cent to send it to you. You get the saving. It clearly describes and prices my Evergreens and "True to Name" fruit trees—Delicious Apple, Earl Plum, Jones Strawberries and many others.

I stake my reputation on every tree shipped, and personally supervise the work of my employees to see that everything goes out right. That is why I can guarantee my trees to reach you in good growing condition and give satisfaction.

With every tree I sell goes two generations of nursery experience. My father started this nursery in 1869, and I have devoted my entire life to building it up.

100 TRANSPLANTED EVERGREENS $7.50 EXPRESS PAID

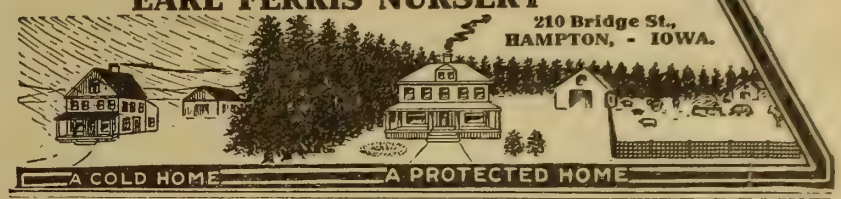
A good windbreak of my hardy Northern-grown Evergreens, costing only a few dollars at my bargain prices, will add $1,000 to the value of your farm.

My Evergreens will give satisfaction because my 25 years of experience has taught me how to handle Evergreens, and you get them direct from me before they have been out of the ground more than 18 to 36 hours, depending on where you are. They have been transplanted and root-pruned, assuring them an abundance of fibrous roots, nature's guarantee of life to young trees.

Some people think that Evergreens are hard to start. This is because they have bought of traveling agents whose trees were out of the ground two or three weeks. My trees are shipped direct from the nursery row in well-packed air-tight casings. They are backed by the fairest guarantee of any nursery in the United States and by my 25 years' reputation as Iowa's greatest Evergreen specialist.

Send for Catalog. Send for my catalog containing special bargains of Evergreens, "True-To-Name" fruit trees, shrubs and bulbs, all of which I guarantee to prove hardy or cost you nothing.

EARL FERRIS, Proprietor,
EARL FERRIS NURSERY
210 Bridge St.,
HAMPTON, - IOWA.



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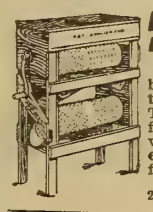
THE BEST.

3 varieties of yellow, 2 white, grown by us on our own farms. None other for sale. Try Petty's Yellow Dent and our Clay County White. Reid's Yellow Dent and Petty's Early Eclipse are good. All the best lines of field and garden seeds carried in stock. Illustrated catalog. Samples may be seen at 1515 Genesee St., Kansas City Stock Yards. Address
PETTY BROS., - BOX 4, LIBERTY, MO.

SEED CORN ST. CHARLES RED COB WHITE CORN
THE BEST CORN FOR ENSILAGE

Grown only in St, Charles county, Mo.; buy it direct and get the genuine article. Write for prices.
LOUIS F. MARTEN, - St. Charles, Mo.



Hero Corn Grader Insures a Perfect Crop

Your kernels of seed corn must be of certain sizes and shapes if they are to produce a perfect crop. The increased yield of one acre from properly selected seed corn will pay for a **Hero Corn Grader.** Sold on 30 days' free trial. Send for booklet seed corn information.
C. A. PAULSON,
2857 Colfax Ave. So., Minneapolis, Minn.

SEED CORN

BUY your seed corn early. Hundreds of bushels selected the last of September and first of October and hung on wire hangers. Germination perfect. Send for catalog and order seed to be **SHIPPED WHEN YOU WISH.** Hundreds of dollars returned last year because we could not fill orders. Pure-bred seed corn raised in the famous Mississippi Valley. The best corn land in the world.
E. G. LEWIS, - Medin, Ill.

SEED CORN

WE make a specialty of Reid's Yellow Dent corn. Standard type. Bred to yield. Picked early and dried on racks. Germination perfect. Send for catalog and prices. **Sommer Bros., Pekin, Illinois.**

Kherson Seed Oats

MOST productive in seven-year test at Iowa and Nebraska stations. Twenty bu. or more, 85c a bu.
GEO. GREGORY, RALSTON, IOWA
C. & N. W. main line.

CLOVER, TIMOTHY, Mixed Timothy and Alsike, Blue Grass, Dwarf Essex Rape, Seed Flax, Alfalfa, Barley and Oats. Seed Corn: Silver King, Early Yellow Dent. Car lots feeding Corn and Oats. Special prices for early orders. Write today. The Hofler Seed Co., Nora Springs Ia.

SILVER PLUME

A BEAUTIFUL medium, early white oat with the stiffest straw and heaviest yielding qualities, 85c graded and sacked. Send for post card. Address
W. C. BRYANT, PRINCETON, ILLINOIS

REIDS and GOLDEN EAGLE

STANDARD varieties. Sept. picked and dried on Shangers best type and germination. Crated, $3.75. Shelled and graded, $2.75. Send for circulars.
W. C. BRYANT, PRINCETON, ILLINOIS

SWEET CLOVER SEED for winter sowing. White and yellow, cultivated biennial varieties. Best legume fertilizer, good pasture and hay. Prices and circular how to grow it, FREE. John A. Sheehan R. D. 4, Falmouth, Ky.

WANTED--RED CLOVER Alsyke, Timothy, Mixed Alsyke and Timothy, etc. Send samples stating quantity. The Adams Seed Company, Box 19, Decorah, Iowa.

ODERBRUCKER BARLEY Recleaned, smut treated, 85c bu. New Kherson 60-day oats. Regenerated Swedish Select oats. Thompson Bros., R. 3, Wadena, Ia.

Successful Lessons in Poultry Raising FREE

SEND me your name now *before* you spend a cent for *any* incubator or brooder—*before* accepting *anyone's* proposition. I want to tell you how I give a regular $25.00 simple, practical course of advice in printed form—facts based on my 25 years' poultry experience with my incubators. These *Free Poultry Lessons* include personal attention and advice that no other maker can give. Also lessons before you start—when you start—while you are hatching—how to make the biggest hatches and raise biggest broods—with

SUCCESSFUL INCUBATORS LIFE PRODUCERS | **SUCCESSFUL BROODERS** LIFE PRESERVERS

Which give most chicks—raise more chicks—*every time, in any climate, anywhere, for longest term of years.*

This is no idle statement. The special construction of my Successful Incubators, combined with exclusive points of merit, go to make an incubator the equal of which has never been manufactured. For instance, my Successful Incubator is

—the ONLY incubator *cabinet made;*
—the ONLY one *scientifically ventilated;*
—the ONLY one that *heats the colder edges first,* like a greenhouse or dry kiln.
—the ONLY one that has *18 good hatching points,* (see catalog) any one of which should make you decide in its favor.

If you are anxious to get into the poultry business, to make a good living out of it and *want to start right,* you will make no mistake buying a Successful Incubator.

Don't delay another day but write NOW and tell me you're interested and I'll send you by return mail my

Successful Catalogue FREE

My book tells you about various incubators and brooders. It gives you a good idea of the advantages of each, what size to buy, etc. It is free from all exaggeration and tells you just what steps need to be taken to make good money from the very beginning.

On page 6 of my book you will find the strongest guarantee ever placed behind an incubator. Read it and you'll never be satisfied to buy an incubator that does not promise to do for you what the "Successful" *guarantees.* Write me NOW, before you lay the paper aside. Address

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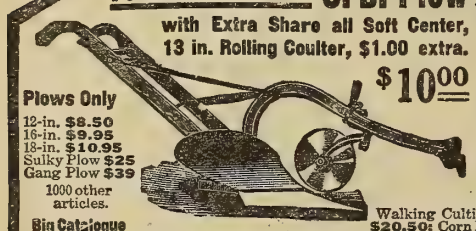

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Barker's Futurity Sale.

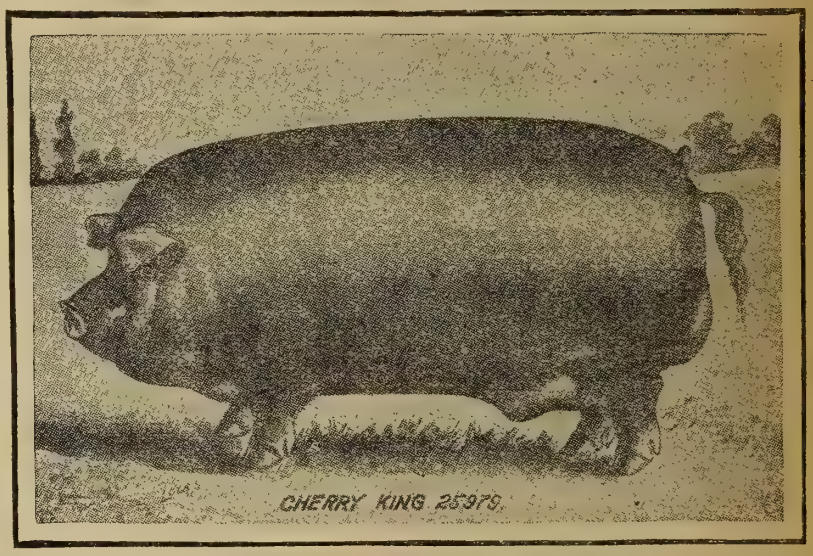
E. S. Barker, Doon, Iowa, holds his sale of bred Poland China sows in his comfortable sale pavilion on his farm on February 13, 1913. While Mr. Barker did not show in any but the pig classes at the state fair last fall and was not only successful in open competition, but carried away the coveted futurity prize instituted as a novelty in this sort of competition last year, he has older stock on his farm which is as worthy of reward from show-ring competition as his younger animals were. In this herd the sows are big, they are as useful a type as any herd can show, grow as big, fatten as easily and breed as well. Lyon Chief, the head of the herd, is a boar that his proprietor has used only for breeding purposes. He has never been fitted to show the size he might develop, but the pigs he has sired have not only shown up well in competition, but they have sired winners. Lyon Chief gets sows that grow large and smooth and have all the desirable points one would wish them to have. His gilts are the same and are quick growers from the very start. It isn't hard to fatten them at any age and yet we saw sows on Mr. Barker's place sired by Lyon Chief as big as any other sows from any other breeding he had there. Some of these sows will be sold sale day and especial attention ought to be called to Lyon Queen and Lyon Quality, two sows as good as anyone wants to put in a herd of the best. Both are good samples of the way Lyon Chief breeds and indicate what the gilts to go through the ring will develop into if they are given equal chances. The fall yearlings are by Great Expansion, a son of Dorr's Expansion, a big, smooth boar that was prevented from a good show record by an untimely death. It must be remembered that the futurity pigs sell and that they are great pigs themselves. They have all been bred to good boars. The first-prize gilt was bred to Expanso by Expander, the Sioux City first-prize aged boar, and out of Lady Wonder by Fesenmeyer's A Wonder. He was the first choice to be taken from Dorr & Sons' herd this fall. There is one more good feature of this sale, namely, the produce of Gentle Jessie, a great brood sow that has always made an enviable record in this herd. She is the dam of the futurity litter, is the dam of three fall gilts by Great Expansion; is the dam of Mondamin Master (sire of winners at Des Moines and Minnesota), and Jessie's Chief, Mr. Peery's good herd boar. Gilts from a brood sow with that record are the best kind to buy and here is a chance at just the right time. Address for catalog, mentioning The Homestead, E. S. Barker, Doon, Iowa. Ray L. Gribben will attend the sale for The Homestead and will give honorable attention to mail and wire bids.

Zimmerman's Poland China Sale.

On February 22d, at Neola, Iowa, W. E. Zimmerman will hold his annual Poland China brood sow sale and he will offer forty head of the best sows he ever drove through a sale ring since he has been in the business. He has a lot of tops that he is putting into this sale and they are sired by some of the most noted sires of the breed. In other words, he is selling daughters of such well-known boars as Orange Wonder, Chief Price 2d, Big Orange, Big Buddy, Big Wonder, A Wonder, Jumbo, Mastodon King and other noted big-type boars. He has selected out five of the very best sows he has in his herd and these are going into this sale. One of these is Merry Price, a daughter of Chief Price 2d, out of an Up To Date dam, and she is bred to Mastodon King for a March litter. Tecumseh Queen is a daughter of J.'s Chief, he by old Johnson Chief, out of an Expansion dam, and she is bred to Pawnee's Price, a son of the great Smooth Price. Orange Blossom is a daughter of Orange Wonder, a half-brother to the noted boar, Big Orange, and she is out of Blossom Monarch by old Gay Monarch and she is bred to Pawnee's Price. He is selling ten good fall sows by his old boar, Cloverdale Hadley, and these are out of dams by Big Victor, Pawnee Wonder and Big Tom. Among the choice gilts that he will sell are three by the noted Big Orange, out of a dam by Pawnee Lad and old Anna Price 2d. Two good gilts by Big Buddy, out of old Amy K., a half-sister to old Long King. Three are by Big Wonder, he by Ellerbroek's A Wonder, out of a dam by Big Orange. Two more are by A Wonder Jumbo, out of a daughter of M.'s Hadley and a Giantess dam. The remainder will be daughters of Mastodon King and Cloverdale Hadley. The most of these will be bred to his great young boar, Pawnee's Price, that is the making of one of the best young boars in western Iowa, and Mastodon King, a son of the noted King Mastodon. Write W. E. Zimmerman, Neola, Iowa, for catalog and kindly mention this paper. Bids sent to M. T. White, representing this paper at the sale, will receive attention.

Ringmaster Short-horn Sale—Last Call.

The fifty head of Scotch-bred Short-horns that White & Smith will offer at public sale at Chicago, Ill., Wednesday of next week, February 12th, form one of the best lots that will go into a sale ring this year, and we doubt if any sale will offer as many outstanding show propositons among the females as will be seen in this list. The gentlemen making the sale have dipped heavily into the tops of their herd in order to give the buying public an even divide, and hard to suit indeed will be the Short-horn admirer who cannot find in this offering something that will add strength to his herd. The fact that sons and daughters of the undefeated grand champion, Ringmaster, are numerous in this sale is of itself sufficient to mark the event as one of extraordinary importance, for opportunities to secure the get of so prepotent a sire and so remarkable a show bull are rare indeed. In addition to the get of this undefeated grand champion there are some twenty head of females in the sale that are either bred to him or have calves at side by him, and among them is the sensational grand champion of the 1912 International, Roan Queen, one of the greatest females that ever stepped into a show ring. She will calve soon after sale day to the service of Ringmaster and the outcome of this mating should be something sensational. Not only is there an abundance of show-yard material in this sale, but some of the strongest breeding propositions that have been offered to the public in years



Cherry King, one of the most noted sires of show and breeding hogs in America today. Some twenty-five sows are bred to him that will be sold February 18, 1913, in the Chas. F. Sprague sale

are listed. There is not a bad one in the lot, either as regards breeding or individuality. The catalog shows a lot of pedigrees as good as the herd book affords, while the cattle all give evidence of the skill of that master breeder and fitter, Leslie Smith, than whom there is none more capable. This sale should have a large attendance and a liberal patronage. The showman will find here just what he needs to carry him on to victory in the shows of the coming year, the breeder will have the opportunity of adding animals that will strengthen his herd in every way, while the beginner looking for the right kind of foundation material can rest assured that what he needs is listed for this sale. The enterprise of White & Smith in offering to the public so choice a lot of cattle should be appreciated sale day by the buying public. The offering is in every way worthy. The final announcement appears on page 51. If you have not already secured a catalog write for one at once to White & Smith, St. Cloud, Minn., mentioning The Homestead, and arrange to attend the sale at Chicago next Wednesday, February 12th. You will not be disappointed.

Last Call Mousel Bros.' Combination Hereford Sale.

We are this week calling attention for the last time to a sale of Hereford cattle that the writer thinks is of especial interest to the Hereford breeders in particular and the beef cattle business in general of the western states. It is the sale that will be made under the management of Mousel Bros., Cambridge, Neb., the same to be held in Bradstreet & Clemens' sale barn in Grand Island, Neb., on February 15th. On another page of this paper we show a group of young bulls that will go in this sale, and while a photograph rarely does justice to live stock, yet one may gain some idea of the excellence of the young bulls that will be sold by taking a good look at this photograph. The calves shown are all the get of the great breeding bull, Beau Mischief, and we believe that there are a couple in this group that are fully equal to the ones sold in the Mousel

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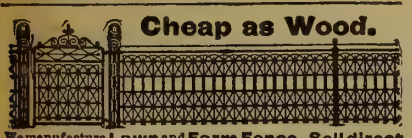

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Berries are sweet even when green, free from core and seeds, meaty and altogether delicious, wonderfully good to look at, and just as good to handle, to ship and to eat—high-priced and profitable.

Plants Begin Bearing the First Year

and yield immense crops afterwards. They are absolutely hardy in 40 degrees below zero. Macatawa plants $1 each, or 6 for $5. Only 6 to one person.

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OLNEY, ILL. Send for samples and price

Bro[illegible]nd Clements sale at Grand Is[illegible] about a year ago. The writer remembers that that is quite a statement to make, as there were some calves sold in the sale a year ago that were the equal of anything that had been sold in the West, but we have seen the calves shown in the photograph we just mentioned and we really believe that there will be presented bulls that are the equal of the ones sold at that time. This statement merely means that those of our readers looking for a bull to take out to show another season, or that will be suitable to head the very best kind of a herd, that this place is the place of all places to find him. The bulls shown in the photograph are only a small part of the choice bulls that will be offered in this sale, for there will be seventy head of bulls in this offering and the breeders assure us that they are the equal of any sent forth from their respective herds, and bulls that they are glad to offer to critical buyers. Better attend.

La Doux's Last Call.

We give this week the last call for the sale of Chester White brood sows that will be sold by F. W. La Doux, Spirit Lake, Iowa, on Thursday, February 13th. The sale will be held in town in the livery barn of John Deibner, so that there will be no trouble in attending the sale, even if the day should be of the very worst sort. This is the first sale that Mr. La Doux has ever held, but it is seldom that a man who is selling for the first time has been able to offer a choicer lot of pigs. In order that those who will be at the sale will have a chance to see the sort of breeding stock that is kept on the farm through the year, Mr. La Doux will have the boars and some of the sows at the barn sale day for inspection by visiting breeders. The animals that are entered in the sale are about as good as one ever sees driven into a sale ring and we feel certain that men who attend the sale will find plenty to suit their purposes. There will be about forty head in the sale and they are all by good sires and will be in very good condition by the date of the sale. The old boar, Joe Cannon, is not in this sale any longer, but is doing good service in another prominent herd in the northern part of the state. He got sows and boars of good size and these sows, when mated with the younger boar, Gold Coin, have shown a good size and are especially well equipped with big, stout bone and stretch. This is more noticeable in the fall pigs than in any other bunch of this breed that we have ever seen. You will say the same thing when you see them at any time that you have a chance to visit the herd this winter or next summer, when you can see them on the farm. A few of the sows that will be run through the sale will be entered by C. H. Springer, of the same place, and they are all of about the same general sort as the ones that are sold directly from the farm of the man who is advertising the sale. They are the same breeding, as the boars were obtained from Mr. La Doux, and the sows are exactly the same in blood. In the catalog the sows are numbered as they are in most catalogs of sales, but you will find that the method of numbering the sows will not make any difference in the sort of sows that will be driven in the ring for the sale. In this year, when the demand for good brood sows of any sort is already so good as shown by the sales of this kind of breeding stock that have been held so far this season, the sale that Mr. La Doux will hold will be one of the best chances to buy good ones for little money that will be likely to be held this year. A first sale is always a place for the best bargains that the sale ring holds for breeders and this will be more than usually so because the class of sows that are cataloged is away above the average for the breed. The sows are all big and have stretch, are good in bone and are from good brood sows. There is one sow on this place that has already shown the great returns that can be obtained from a pure-bred sow. She has farrowed, in the four litters that she has brought to this farm, thirty-nine pigs, and of these thirty-nine she has saved thirty-six of them. Some of them will be in the sale and they are surely the kind of breeders that any man can afford to use on his farm, even if he does not care a snap for a pedigree. They are surely worth a visit to Spirit Lake on the day of the sale. Write to Mr. La Doux, addressing him at Spirit Lake, Iowa, and please tell him that you saw his advertisement in The Homestead. G. M. Thompson, a Chester White breeder of Inwood, Iowa, will attend the sale as field man for this paper and you may be sure of fair treatment if you send him your bid.

Jones' Great Offering of Big Sows.

At Dunlap, Iowa, on Monday, February 10th, A. D. Jones will sell seventy head of great big, lusty Poland China brood sows and he certainly has an offering that all the breeders will want this year. The sows he is selling in this sale are all of strictly Mouw and Miller breeding on both sire and dam's side, so you will therefore see that no one will sell a better bred lot. Another thing about his offering, they are all bred in nice time and all are showing in pig. Many of the sows Mr. Jones is selling carry four crosses of old Chief Price, Miller's Dry Creek Chief and Choice by Chief Leader. The boars that Mr. Jones is using in his herd are Miller's Tecumseh, a boar bred by John Miller and formerly owned by him and Dr. Pritchard, and we saw him when he weighed 1,000 pounds. This hog has been a great breeding boar and some of the best sows in the sale will be sired by him. J.'s Dry Creek Wonder is another great boar now being used in this herd and he is one of the best hogs today in the West. The other boars are Mohawk Chief, Long Choice, Orange Price and Young Miller's Tecumseh. There are sixteen daughters and granddaughters of the great sow, Minnie Fair, in his sale; six splendid spring yearlings; forty-five summer and fall yearlings, and the balance spring gilts. When it comes to strictly large-type breeding no one can show anything better than this old veteran can in his forthcoming sale. Write for his catalog and mention The Homestead. Bids sent to M. T. White or C. C. Carlin, in care of Mr. Jones, will be attended to on day of sale.

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33 Pieces - -	Regular Value 23 Cents

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Regardless of higher prices, you cannot get more exclusive designs, attractive coloring, appropriate text matter, a more varied assortment, or better material and workmanship than is displayed in this outfit, which is well worth the regular price of 23 cents.

To show you the exceptional value, and to introduce Our Big Easter Offer,

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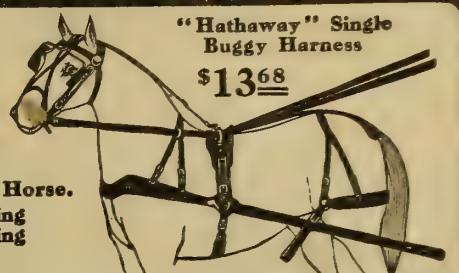

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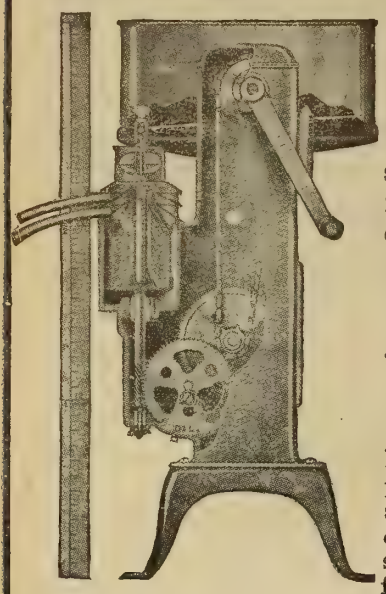

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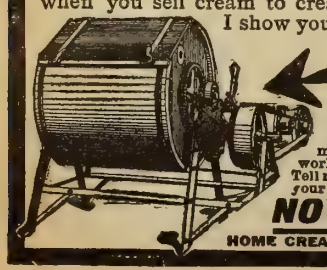

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

PRECAUTIONS NEEDED TO KEEP MILK CLEAN.

In order to produce pure, clean milk, every precaution must be taken to keep it as free as possible from bacteria and dirt or foreign matter of any description. The production of clean milk rests with the farmer, but the dairyman is responsible for keeping the milk in a clean state until it is finally delivered to his customers. It is impossible for the farmer to produce sterile market milk, as many forms of germ life enter it from the air and multiply rapidly in milk, especially when the commodity is warm. The habitat of bacteria is largely dirt, and therefore, by keeping the milk clean the number of germs in it will be very low as compared with dirty, infested milk.

The way to produce pure, clean milk is to observe scrupulously cleanliness in everything with which the milk comes in contact. The barns should be whitewashed at least twice a year, and must be well ventilated, as it is essential to have a pure atmosphere as well as clean walls and floors. The floors should be thoroughly cleaned twice a day, but not just previous to milking, as this would fill the air with dust and dirt. It is necessary to keep the cattle clean, as the animals' coats afford a harbor for dirt, dust and all kinds of germ life. It will not be found practicable to thoroughly groom the cows daily, but the flanks and udders should be kept clean, as it is from the hind quarters of the animal that the dirt, etc., falls into the milk pail.

As the air of the byre swarms with various species of microbes, it will be observed that an important point in the production of clean milk is its removal from the barn immediately on being drawn from the cow. The milk must be taken direct to the dairy, where it is then filtered.

It is imperative that milk be filtered as soon as possible after leaving the cow for several reasons, the chief of which are that milk when warm is less viscous than when cold, and thus more easily passes through a very fine filtering medium. Even when milk is obtained with the greatest care as regards cleanliness, it always contains a certain amount of foreign matter, most of which readily dissolves in warm milk, and the object is to remove this dirt, etc., before all of it can be dissolved. All dirt and particles of manure entering milk carry vast numbers of the injurious species of bacteria, and, therefore, the sooner the dirt is removed the better it is for the milk. The old-fashioned way of straining milk through a muslin cloth should not be practiced, as by this method it is impossible to remove anything like all the foreign matter from milk, and many troubles such as ropy milk, etc., have been traced to the use of unclean straining muslins. The most effective, and at the same time practical type of milk strainer, is that in which a cotton wool disk is used at the filtering medium. This disk is placed between two meal gauze disks of very fine mesh. This type of strainer is known as a milk filter, and is so constructed that a sheet of metal bears the weight of milk when the filter is full. In this way it is impossible for the pressure of milk to force the dirt, etc., through with the strained milk.

Immediately all the milk has passed through the filter it should be taken to pieces, the filtering medium burned, and all the metal parts washed in tepid—not hot—water, and then steamed or scalded. Washing with hot water causes albuminous portions of the milk to adhere to any crevice, etc., in the metal, and especially in the gauze disks. This albuminous substance affords a food for various species of bacteria which often cause trouble with the milk which subsequently passes through the filter. For whatever purpose milk is required it is imperative to abstract, by means of filteration, as much as possible of the foreign matter from it, as it is impos-

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sible to manufacture good dairy products from contaminated milk. Where milk selling is carried on the efficient cooling of milk immediately after filtering is most essential.

Most of the changes which occur in milk, especially the common souring, are brought about either directly or indirectly by bacteria. Milk contains all the constituents necessary to the sustenance of germ life, and most species of germs increase most rapidly and perform their functions best at about the temperature of the animal body. Very high temperatures kill bacteria, and low temperatures (50 degrees and lower) numb them and check their development. Heating milk to a high temperature impairs the digestibility of its constituents. Therefore, in the production of pure milk the aim must be to keep the bacterial contents as low as possible by cooling the milk to a low temperature directly after it leaves the cow. The cooling numbs and renders inactive the germs that are inevitably present in the milk. It may be as well to point out that milk obtained in a cleanly manner contains chiefly germs of the beneficial type. There are two types of milk coolers on the market—oblong and cylinder. The construction and working of these coolers are so well known that a description of them is considered unnecessary. A good cooler should be capable of cooling the milk down to a temperature only one or two degrees above the temperature of the water employed for cooling. On the average three or four gallons of water will be required to cool one gallon of milk. Having cooled the milk down to about 50 degrees F., or lower, it should be kept at this temperature until delivered to the customer.

W. H. O.

CARING FOR THE DRY COW.

To the Editor of The Homestead:

There is a prevalent idea that when a cow is dry she needs no care and very little feed. This is a serious mistake. When a cow is dry she needs just as much care and almost as much feed as at any other time. Why do we allow cows to go dry? It is simply to give them a chance to rest and build up their bodies which have been run down by the strain of the past ten or eleven months' work in the production of milk. Perhaps some may not agree with that statement. They will say, "Why, I would not let my cows go dry if I could prevent their doing so; they just go dry in spite of me." It is the nature of a cow to go dry and she will usually do it of her own accord. But why is it her nature?

It is the cow's nature to go dry just the same as it is the nature of a Jersey to conform with the Jersey breed type and just the same as it is the nature of a Holstein to be black and white. It is a charactertistic which has been bred into her ever since the beginning of the development of the dairy cow. This does not mean that the men who founded and improved the breeds selected for cows which would go dry for a certain period, but they did select for cows that would give a large volume of milk per year and do it for several years. In order to insure this quality it was necessary for the cow to remain dry for a certain period that she might repair and rebuild her system for the coming period of milk giving. It has been the experience of every manufacturing concern that their machinery needed to be overhauled and repaired occasionally in order to maintain its efficiency and insure long service, and it has been the experience of dairymen that this period of rest and repair for the dairy cow is necessary and very profitable.

Unless the cow is properly cared for and fed according to her requirements when dry she cannot get her system in shape to properly nurse her offspring and give a large yield of milk during her period of milk production. If she is forced to spend her dry time in a barren stalk field or standing in a cold shed eating corn fodder, she can do no more than live and when she freshens her system will be in no better condition than it was before she went dry. But if the cow is kept in a warm barn during inclement weather and fed well she will store up some flesh and energy in addition to repairing her worn machinery, and will be ready to start the period of milk giving with some reserve energy and vitality.

The ration for the dry cow should be formulated with three things in mind; namely, to furnish a sufficient amount of protein to properly develop the foetus and allow a surplus for the needs of the body of the cow, to supply enough carbohydrates that the cow may lay on a little fat, and to supply succulence.

Some kind of succulent food is very essential in the cow's ration at all times. It serves to keep the bowels in a loose condition, which is necessary to good digestion and assimilation. Corn silage is undoubtedly the best feed to supply succulence, although it can be supplied by roots or dried beet pulp. The varying prices and availability of feed stuffs makes it impossible, or at least, not easy, to say how the protein and carbohydrates can best be supplied to fit the case on every farm. Alfalfa hay, clover hay, oats and pea hay, cottonseed meal, oil meal and oats are most common among the protein feeds,

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while the carbohydrates portion of the ration is usually furnished by the corn plant or other similar feeds. Needless to say, the cow should be given water in plentiful supply, a good plan being to warm it slightly on cold days. If salt is sprinkled over the fodder portion of her ration, or otherwise supplied at intervals of two or three times a week, it will assist in keeping her system in good tone.

Subscriber.

BUSINESS ASPECTS OF DAIRYING.

To the Editor of The Homestead:

A dairyman of long experience and widely known for business sagacity recently stated to a visitor at his farm: "I have established a dead line in my herd. Every mature cow must yield full 6,000 pounds of milk to pay for her feed, for the labor expended in caring for her, for her shelter and for the many other items of expense. Heifers in their first lactation period I let off with a production of 4,500 pounds. Above the figures stated I make a profit, but positively cannot make anything unless the yield is above 6,000 pounds."

The man quickly impressed one as a dairyman who was running his establishment on a businesslike basis and his methods were looked into somewhat carefully. In the milking barn were the tally sheets and spring balance. Every cow's milk was weighed at each milking and the weight recorded. At regular intervals samples were taken and tested for butter fat. In the barn the owner pointed out the different cows with such remarks as: "Has averaged better than 8,000 pounds for three years. A nice looking cow, but we can scarcely get 7,000 pounds from her." At the farther end of the barn were two cows whose records the owner discussed in detail. The two were half sisters, sired by the same bull, but out of different cows. They were much the same in color, but differing in type. The first one was distinctly on the dual-purpose order. She was rather large with a good barrel and udder. Her back was such that it would have made tempting steaks for anyone. "She is what I call a good cow. Her record is 8,500 pounds for four years," said the owner. The other cow was small and rather scrawny—no steaks on her back. The owner smiled and continued his remarks, "And this is what I call a better cow. Her record is 9,500 pounds for the four years. If I were to sell the one of dual-purpose type for $60 for beef and this other should lie down and die the little cow would still have made me the most profit. That as I see it is very nearly true of the dual-purpose cow compared with the strictly dairy breeds."

The owner was lead to tell of some of his poor cows. When he first began to keep records and make tests he learned that many of the cows that he had considered to be his best cows were in reality the poorest. One he described in particular had deceived him by giving a large amount of milk at the beginning of her lactation period. Her record for a year showed that her total production was below the necessary 6,000 pounds. To quote the owner again: "She was sending me straight to the poorhouse and I thought she was one of my best cows." Then her test was only 2.6 per cent and the law in that state required 3.2 per cent. "Just as surely," continued the owner, "she had me headed toward the county jail. I got rid of her just in time to escape both."

While keeping tally may be one of the greatest feature when it comes to putting business methods into the dairy there are many others. Good dairymen usually are successful when thrown into other lines. It is because they are so accustomed to handling their affairs in a businesslike way. There is need for the display of business sense in the purchase and handling of the bull. It is the desire of every thoughtful dairyman to increase the production of his herd. The high producer eats but little more than the inferior one. Through the use of a bull of the right kind used on his best cows may he expect the average of his herd to improve.

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The "NATIONAL" Style Book is a very part of Spring itself—it is a part of the pleasure of Spring, it is Spring's Own Book of Fashions. To forget to ask for it is to miss part of the pleasure of the Spring Season—and it is to miss a very real saving in dollars. Study the list of Money-Saving Offerings below and then fill in and return to us the coupon for your FREE copy of the "NATIONAL" Money-Saving Style Book.

Waists	$ .59 to $5.98	Lingerie and Wash Dresses for Misses and Small Women	$1.98 to $7.98
Skirts	.98 to 7.98	Silk Dresses for Misses and Small Women	4.98 to 9.98
Lingerie and Wash Dresses	2.49 to 12.98	Coats for Misses and Small Women	1.98 to 9.98
Silk Dresses	5.98 to 17.98	Suits for Misses and Small Women	2.98 to 14.98
Ready-Made Suits	3.98 to 17.98	Children's Dresses	.95 to 4.98

Also a full line of Underwear, Hosiery, Scarfs, Veils, Gloves, Leather Goods, Jewelry and a complete line of Boys', Misses', and Children's Wearing Apparel.

Your "Money's Worth" and How You Should Judge Values

Price does not tell value. And neither does a picture.

"A linen waist for a dollar"—means nothing. It may, we suppose, be worth either 75 cents or $1.25, depending on *where you buy it.*

A "NATIONAL" Linen Waist for a dollar means something. Because we honestly believe we sell as many waists as any two houses in America together. And so we *can* put more value, more real quality, and better material into every "NATIONAL" waist.

Just so a "NATIONAL" Dress is a better dress. It is better made—it is better fitting. Why, a "NATIONAL" Dress is actually draped on a model to insure its perfection.

Not one garment leaves our hands without a strict examination by an expert. Our own chemist examines every material to prove its service value. We do not believe any other house in the world does this. And it is so with every detail.

And so we ask you why not buy your clothes at the "NATIONAL"? Why not get the most you can for your money? Why not take the first step now by writing for your free copy of the "NATIONAL" Style Book?

—The "NATIONAL" Policy—

We prepay postage and expressage on all our goods to any part of the United States. Every "NATIONAL" garment has the "NATIONAL" Guarantee Tag attached. This tag says that you may return any garment not satisfactory to you and we will refund your money and pay express charges both ways.

National Cloak & Suit Co.
229 W. 24th St., New York City

Send Free Coupon Today Sure

NATIONAL CLOAK & SUIT COMPANY
229 W. 24th St.
New York City

Please send me free, my copy of the "NATIONAL" Spring Style Book.

Name .....

Address .....

Are you interested in seeing the new Tailor-Made Suits for Spring? And do you wish us also to send you, together with your "NATIONAL" Money-Saving Style Book the "NATIONAL" Special Suit Booklet and Samples? .....

A Dollar Saved for Every 5c Spent

You have furniture so badly marred that you have thought of getting new—you have stovepipes that are getting rusty—iron beds with enamel chipped off—pictures with tarnished frames. Look around the house, and you'll find dozens of things in need of toning up—dozens of ways to save expense and make your home brighter and cheerier by the use of

Lucas Home Helps

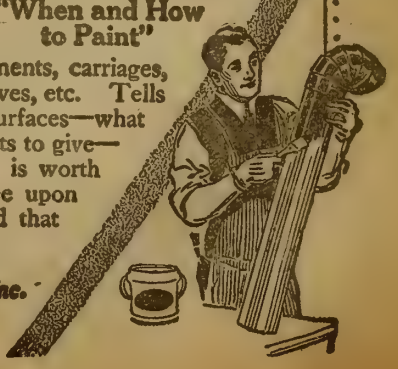
All Lucas Home Helps are quality products. Made with same brains and care—the same 64 years' experience, which makes Lucas Paints and Varnishes the most dependable and durable. These Lucas Home Helps are **easy to use** and sure to please. Complete information, ot only for the use of Home Helps, but for doing many other odd jobs of painting, varnishing or decorating around your home and farm, is given in our wonderful

Here Is a List of Lucas Home Helps:

Prepared Paint
Varnish Stain
Lucas Enamel
Lucas Aluminum Enamel
Perfect Gold and Aluminum Enamel
Floor Paint
Furniture Polish
Porch Enamel
Floor Stain Finish
Stove Pipe Enamel
Bath Enamel
Screen Enamel
Abbey Stain

FREE BOOK "When and How to Paint"

Tells how to paint farm implements, carriages, wagons, autos, walls, pantry shelves, etc. Tells what product to buy—how to prepare surfaces—what kind of brushes to use—how many coats to give—how long to let dry, etc. This book is worth many dollars to you. We send it free upon receipt of your name and address and that of your nearest dealer.



John Lucas & Co. Inc.
Office No. 3732
Philadelphia [12] Pennsylvania

Free Use 30 Days

SEE for yourself how smoothly this *roller-bearing* Crop Maker Fanning Mill runs, day in and day out. Put it to work at *any* fanning mill or grading machine job—see how it automatically cleans, separates and grades any grains or grass seed and then, if you don't say it is a great service and money-making machine, ship it back at our expense. The

Crop Maker Roller Bearing Fanning Mill

runs "like oil." It's *easy* to turn, it turns *evenly*, and this means that it does perfect work all the time.

It doesn't pay to plant dirty, ungraded seed when you can have clean, perfect seed by using this light-running mill. If you are satisfied after the 30-day free trial, we will sell you this mill at

Direct Factory Price

You save retailer's and jobber's profit, merely paying actual cost of making plus a small factory profit. And the factory stands right behind you all the time. Try this great Crop Maker before you buy. Your use of it puts you under no obligation. We have a Free Book for you, giving complete description, price, etc. Please write for it now—today—and get our offer in detail.

St. Paul Fanning Mill Company
Station 6 St. Paul, Minn.

Miller SECTIONAL HOG HOUSE WITH FLOOR

Built of Regular Tongue and Groove Yellow Pine Flooring.

THE 6 x 7 floor is securely nailed to *four* 2 x 4 sills; the ends and sides to 2 x 2 frame. Bolts to place. Dipped in mineral paint containing a strong disinfectant to preserve wood and keep away vermin. All lumber is seven-eighths yellow pine, dressed both sides. Floor angle preserves the pigs at farrowing time. To save two pigs pays for the MILLER HOG HOUSE.

Warm in Winter, Cool in Summer. Take apart and sun well between litters. Comes in five sections, with bolts, crated for shipment. Price, just a little more than cost of the lumber in your town. The Government says this type of wood hog house is best. Write for catalogue and prices. Address,

MILLER MANUFACTURING CO.,
8016 Alabama Ave., St. Louis, Mo.

Each of the same number of days from seed but started at different intervals of the MOON'S INFLUENCE.

I want to send every farmer or gardener a FREE COPY of the interesting booklet SCIENCE AND AGRICULTURE. Don't miss reading this instructive booklet on the MOON'S INFLUENCE over plantgrowth. Send your name now and you will be sure of a copy of a limited edition.

$1000 PER ACRE IN TOMATOES

FRANK H. GREGORY, Gregory Farm
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Honest Tanning and a Square Deal

My system of hide insurance makes your hide safe. Cownie's free policy protects your hide against fire, flood, theft, exchange or poor workmanship. A good job guaranteed.

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Send me your hide and let me make you a handsome, durable coat or robe. My numbering system makes exchange of hides impossible.

Send for Sample Certificate and new catalog free. Contains styles and prices; also full particulars of insurance plan.

COWNIE TANNING CO., 508 Market St., Des Moines, Ia.

SAW YOUR WOOD

With a FOLDING SAWING MACHINE, 9 CORDS by ONE MAN in 10 hours. Send for Free catalog No E36 showing low price and testimonials from thousands. First order secures agency.

Folding Sawing Mach. Co., 161 W. Harrison St., Chicago, Ill.

AUTOMOBILE IN COLD WEATHER.

To the Editor of The Homestead:

At this time of the year a motor car in the hands of a novice gives considerable trouble; the engine is hard to start, the tires grind out quickly and the steering mechanism is stiff and its failure to work sometimes results in serious mishap.

Where we have much snow and sleet and the ground is frozen, the expense of cutting out the tires causes automobiling to be looked upon as a very expensive luxury, which is the truth indeed, but by the use of leather tire protectors this may all be overcome at small expense. The leather tire protectors cost but a very reasonable sum compared with the cost of a new set of rubber casing and with their use in connection with chains on the rear wheels you can pass over all kinds of frozen and rough roads covered with snow and ice and after the run is over the tires will be in as good condition as at the start.

Some people try to advance the idea that leather tire protectors heat the rubber casings and ruin them, but after years of experience I find this to be a mistake under all average conditions. The tires will stand up and deliver excellent service without injury to the casing and the savings they bring about will be worthy of consideration to the owner of any automobile using pneumatic tires.

When the engine is very cold and gives considerable trouble in starting always feed plenty of gasoline and prime the cylinders where priming cocks are provided. If the cylinders are not furnished with priming cocks you may remove a spark plug and prime through the opening made by removing the spark plug in severe cases, but this should not be followed as it will wear the threads in the cylinder and in time result in the loss of compression which in this case is very difficult to stop. Priming the carburetor may be heated with warm water, but strictly inadvisable to use an open flame as it often results in grave destruction which is bitterly regretted after an explosion has followed.

A failure of the steering mechanism will cause a serious wreck more quickly than the break down of any other part of the car and we should always have absolute knowledge of its perfect condition.

The mud sometimes flies on the joints and freezes to them, then we try to turn the wheel in guiding the car and with the great leverage in the wheel some of the frozen joints are broken which immediately results in a wreck. To avoid this all joints should be covered with leather protectors and packed with grease before applying them. The leather protectors which are furnished do not accomplish this any too well, but they are much better than nothing and will generally prevent an accident caused by the freezing of the joints.

Under no circumstances should we drive a car in freezing and thawing weather without some protection of the steering joints.

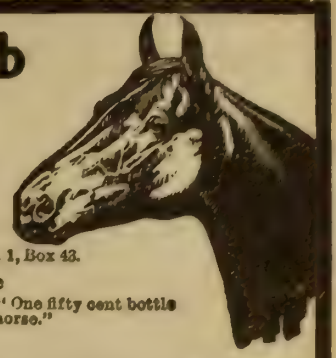
We should not run the car at excessive speed over rough, frozen roads as the constant jar causes severe strain on every part of the car and frozen iron will crack easily when suddenly twisted.

W. H. Ruther.

There is no work that pays better on the farm than manure hauling. Both tenant and landlord should recognize this, and both should work together to thus keep up the fertility of the soil. It would, in a great many cases, pay the landlord to buy a spreader for the tenant's use—providing, always, the tenant is the kind of a man who will make good use of it.

There are many points in favor of a cement floor in the cow barn, but there is no getting around the fact that it is cold and hard. This may be partly overcome by using lots of bedding, but it is not an easy matter to make bedding stay in the stalls. Will someone tell us something that is better than cement for floors in dairy and horse barns?

For Spavin, Curb Splint, Sweeny



"I have used your Liniment on a horse for sweeny and effected a thorough cure. I also removed a spavin on a mule. This spavin was as large as a guinea egg. I regard Sloan's Liniment as the most penetrating and effective Liniment I have ever known."—Mr. G. T. ROBERTS, Resaca, Ga., R.F.D., No. 1, Box 43.

Healed a Bad Collar Bruise

Mr. W. L. HAMILTON of Sterling, Kans., writes:—"One fifty cent bottle of Sloan's Liniment cured a bad collar bruise on my horse."

Good for Thrush

Mr. R. W. PARISH of Bristol, Ind., R. No. 2, writes:—"I cured one of my horses of thrush with Sloan's Liniment. Her feet were rotten; the frogs came out; she laid down most of the time. I thought she would die, but I used the Liniment as directed and she never lays down in the day time now."

A Great Remedy for Sweeny

Mr. SETH STONE of Harlsburg, Ark., writes:—"I have used lots of your Liniment. Have cured sweeny three times with it, and it is a fine Liniment."

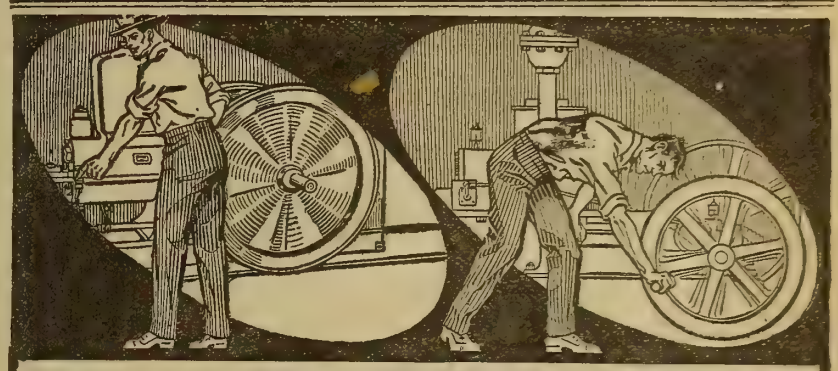
SLOAN'S LINIMENT

kills spavin, curb, or splint, is a reliable remedy for sprains, thrush, wind puffs, shoe boils and all enlargements.

At all dealers. Price, 25c., 50c., and $1.00.

Sloan's Book on Horses, Cattle, Hogs and Poultry, sent free. Address

Dr. EARL S. SLOAN, BOSTON, MASS



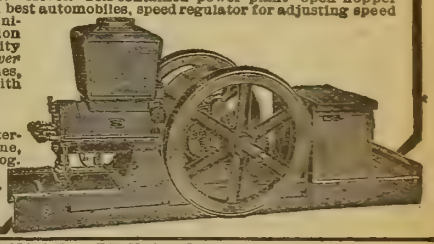
Don't Break Your Back!

YOU don't have to crank the *Electric Starting Woodpecker Gasoline Engine.* It starts on compression from the simple touch of a button. No backache—no sore arms—no fussing with connections. Starts quick and sure in any weather. Any farmer who buys a farm engine without this feature is not getting the best for his money. If you've ever cranked an ordinary engine you'll appreciate its value. Write us for facts about the

ELECTRIC-STARTING WOODPECKER

(Formerly called "MIAMI")

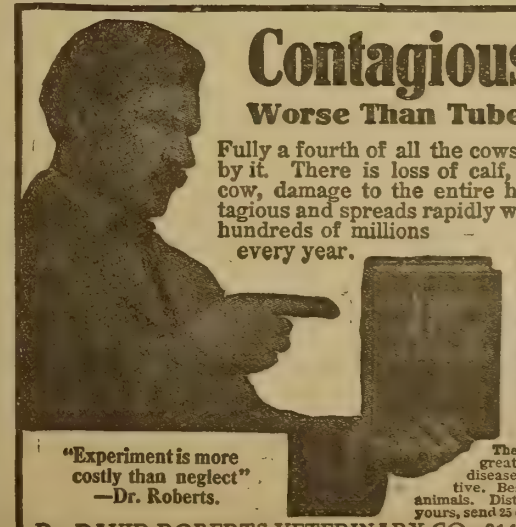
Learn about the self-priming fuel mixer that makes starting easy in the coldest weather—the steel girder sub-base that makes no foundation necessary saves you $25 to $40—lets you haul the engine anywhere at a moment's notice, ready for business the minute it arrives. Self-contained power plant—open hopper cooler—can't freeze; jump spark ignition, as used on best automobiles, speed regulator for adjusting speed while running, choice of three kinds of fuel feed; minimum fuel expense; positively the highest construction throughout, and many other big points of superiority that you should know about. *Tested big surplus over rated* horsepower. Costs no more than ordinary engines, but worth double in value. We prove it at our risk, with



30 Days Free Trial

on your farm. No money down. If you are at all interested in getting the best proposition on a farm engine, at low cost, don't miss this offer. Write NOW for catalog.

THE MIDDLETOWN MACHINE CO.
1314 First Street Middletown, O.



Contagious Abortion

Worse Than Tuberculosis in Cows

Fully a fourth of all the cows of the country are affected by it. There is loss of calf, loss of milk, damage to the cow, damage to the entire herd. Disease is highly contagious and spreads rapidly when started. Losses run into hundreds of millions every year.

Dr. David Roberts' Anti-Abortion Treatment Stamps Out the Disease

because it meets the germ at every turn.
ANTI-ABORTION medicine overcomes the germ in the mother's blood.
ANTISEPTO overcomes the germ in the genital organs.
DISINFECTALL overcomes the germs in the stables.
No one medicine can possibly overcome the disease.
Dr. Roberts' treatment, applied by yourself, makes it impossible for abortion to exist in your herd.

"Experiment is more costly than neglect" —Dr. Roberts.

The Practical Home Veterinarian, Dr. Roberts' great book, gives particulars on all animal diseases. 184 pages. Practical, plain, authoritative. Best book published for posting up on your animals. Distributed free at drug stores. If not at yours, send 25 cents and receive a copy direct, postpaid.

Dr. DAVID ROBERTS VETERINARY CO. 914 Broadway, Waukesha, Wis.

Campbell's Winter-Chaser

ARE you thoroughly posted about the heating question? Do you know what "Rotary Air Movement" means? Do you know who invented it, and why it is vitally necessary to the health and comfort of your family, the efficiency of your heating plant, and the good you get out of your coal?

Remember, this heating question is a mighty important one—you do not change your heating plants often, and when you do, it should be with a view to getting a *life time* service. To prove how and why this is possible with our *all steel* Campbell Winter-Chaser, we will send you, *free*

"TWICE-A-DAY"

A Book on Health and Heating

The story of the *guaranteed* heat to 70 degrees, and the longest wearing, strongest furnace made. In this book we explain why you should have the Campbell Winter-Chaser in your home—large or small, new or old. It tells about the need of *moist and clean* air as well as *warm*, and explains why the large reservoir and the ample air chamber with entrance door insure all the necessary moisture and cleanliness which mean health to the family and long life to the furniture.

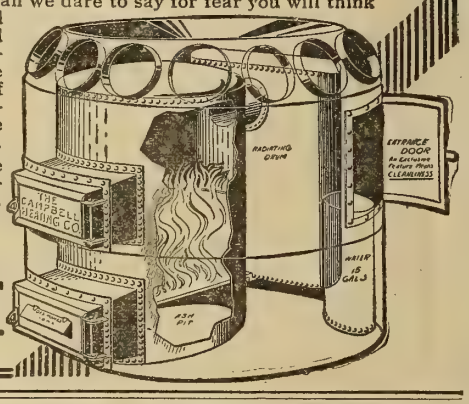
The Winter-Chaser Is Guaranteed To Give Most Heat With Least Fuel

And this statement is a calm fact which letters from happy owners prove,

And the Repairs Are Not Worth Mentioning

With ordinary care the Winter-Chaser will last a lifetime, and there is rarely a penny spent—for ten or twelve years.

The saving in coal is more than we dare to say for fear you will think we are exaggerating. So we would rather send you the booklet, and let you read these facts for yourself in black and white with the owner's name at the bottom of the letter. Those are the statements that count and there are plenty of them in the booklet.



Besides you ought to have the information and heating suggestions it gives. So write *today*. Address

Campbell Heating Co.

1213 Walnut St., Des Moines, Ia.

(Well pumping 900 gal. per minute). *(Kaffir corn yielding 857 per acre)*

Its the location!

Because the Mimbres Valley is the **only** agricultural land in a vastly populated territory, farming here is on a far more profitable basis than farming elsewhere.

Take just the one item of markets. This country has been built up and peopled by great mining industries and health sanitarium centers, which are **entirely dependent** upon Mimbres Valley for farm products. Consequently they pay **premium** prices and always will; for the simple reason that there is no other farm land, within competing distance.

Butter sells at 45c a lb., milk at 12½ a qt., eggs at 40c to 60c a doz the year round. Alfalfa always brings around $16 per ton on the field. Oats sells at $2 per hundred and wheat, corn, etc., bring much higher prices than are received elsewhere.

Consider these market advantages with the fact that the land here is wonderfully productive, rich, silt (naturally level); the climate here provides nine full months growing weather; and that you are **independent** of rainfall. Here you have irrigation under **ideal** conditions. The water used is the purest in America and proven to be **inexhaustable.**

Each farmer has his own **private** pumping plant, getting water just when needed and just as much as needed. Yet a personally owned water right here costs less than **half** what a corporation or Government controlled water right costs elsewhere. Right now you can secure land which, when fully equipped with your **own** irrigation plant, will cost only about $35 per acre. The price of land is low because it was only **three years** ago that the agricultural wealth of this Valley was discovered—that's the very reason why the price won't **stay** low long.

The climate here has brought **health** to thousands—pure, dry air, 300 days of sunshine; short mild winters, and the altitude keeps summers from getting excessively warm—nights are always cool. Here you have the unusual opportunity to **gain health** while making **bigger money.**

Deming, New Mexico

is the metropolis of the Mimbres Valley—a splendid city of 3000 with fine public buildings, grammar and high schools, paved streets, electric light, water, sewer systems, etc.—as fine a town as you've ever lived by and a good local market.

Compare this section with yours!

—the few facts we have given should urge *any* man to find out *more*. Remember we are *not* selling land—we are a body of business and farmer folks interested in developing this Valley for the prosperity of *all* those here and those who *come*. You can *depend* upon what we tell you. Your prosperity is our prosperity. Don't let another crop season start until you really *know* what the Mimbres Valley offers. Write us today and let us tell you all about it. Sec'y, 101 Chamber of Commerce, Deming, New Mexico.

Humerick's Last Call.

At Atlantic, Iowa, on February 16th, C. W. Humerick will sell fifty head of Poland China sows and his offering is one that will need no recommendation at our hands. He has selected out twenty of the very best tried sows he has in his herd for this sale, four fall sows and twenty-six gilts. These are daughters of his well-known boar, New Tecumseh, Big Jericho, Iowa Model, Smooth Wonder 2d, King Wonder, Big Buddy and Victor Hadley. These are bred to New Tecumseh, Big Tom Jr. and a grandson of old A Wonder. In a recent letter from Mr. Humerick he says: "My hogs are doing fine and by sale day they will be in the pink of condition. Most of them are showing in pig in good shape and will look well in the ring. I am selling forty head, twenty-two head of recorded tried sows, six summer and fall gilts and twelve spring gilts. They are bred to Big Tom Jr. 183209 by Big Tom and out of Long Queen, a full sister to Lawson's Yong King's Equal. The most of the offering is bred to him. Also New Tecumseh 163801 by Iowa's Model, he by Crow's Model and out of Miss May, she by Tecumseh Longfellow, and a young boar, More Wonder 198749 by P. Wonder, he by Ellerbroek's A Wonder and out of Lady Mogul V., sired by Big Victor. He is a promising young boar. Some of my best sows are Extended Queen 4th 400946, out of Extended King by Extended by old Expansion and out of Ideal Beauty 2d by Big Jericho. She weighs 600 pounds, has a nice arch back and I think is an outstanding good sow. She is bred to Big Tom Jr. for an April 10th litter. Another is Long Prospect 435996 by Big Prospect and out of Rill's Pride 3d by Tecumseh Longfellow, an extra big, long sow and bred to New Tecumseh for a March 8th litter. A spring yearling gilt is out of Long Prospect, an outstanding good one by Big Crow, he by Big Surprise, and is safe to Big Tom Jr. for a March 5th litter. Other sows are by Smooth Wonder 2d, New Tecumseh, Big Jericho, Commander 2d, Mammoth Prospect, Model Chief, Chief Wonder, P. Wonder, Big Tom Jr. and Victor Hadley." The sale will be held right in town and it will be one of the best offerings of Poland China sows that will be sold in this part of the state this winter. Make it a point to be at Atlantic on February 24th if you want some of these good sows. M. T. White will be field man for The Homestead at the sale.

Barnes' Crimson Wonder Sale.

At Petersburg, Neb., on Thursday, February 13th, A. R. Barnes will sell forty-five head of high-class and well-bred Duroc Jersey brood sows and those who have seen his herd at the fairs and paid any attention to his winnings and what his herd has been doing the past few years will very naturally expect that he will have some good things in this sale. In this respect they are not going to be disappointed either. His offering will attract the attention of discriminating buyers who want valuable sows of the historic Crimson Wonder family, closely connected through one of the greatest Crimson Wonder boars of the breed, Belle's Crimson Wonder, first-prize junior yearling and grand champion boar of the breed at the Nebraska State Fair, 1910. The get of this boar are outstanding good and in our travels the past six weeks we have seen many of them that stood out prominently good in herds of high character. This offering consists of thirty-two yearling and tried sows, sired mostly by the champion, Belle's Crimson Wonder, and others by B. & L.'s Wonder and four extra good yearlings by Belle's Wonder. There are also two very choice big-type sows by Gold Dust Jim 3d, a sire that has gotten much of Mr. Barnes' best producing stuff. There are thirteen toppy and growthy spring gilts by Belle's Crimson Wonder, B. & L.'s Wonder and Blue Ribbon Model. Among these are three extra good ones out of Peaches and Cream and sired by Belle's Crimson Wonder, the mating that produced the sensational show litter the year that Belle's Crimson Wonder won the championship. These gilts were in the first-prize produce of sow exhibit at the Nebraska State Fair last fall. They are bred to B. & L.'s Wonder or Golden Model 3d. The offering is bred mostly to the champion, Belle's Crimson Wonder, and B. & L.'s Wonder, the latter a boar that we consider a topnotcher as a sire. A few are bred to Golden Model 3d and Col. Chief. Send for a catalog of this good offering of Duroc sows and attend the sale or send bids to E. Z. Russell, who will represent The Homestead at this sale.

Lamb's Great Sale of Duroc Sows.

Fed Duroc Jersey offerings will attract more attention this winter than will the sale of A. W. Lamb at Albion, Neb., on February 12th, and we think, after looking over his sale sows, that it is by far the best lot he has ever driven through a sale ring. His repeated winnings at the state fair the past few years in competition with the greatest herds in the land have made the Lamb Durocs sought after by the best breeders east and west. He has selected seventeen of his very best sows and has bred these to the old champion Nebraska State Fair boar, Belle's Crimson Wonder, one of the greatest Crimson Wonder boars that has ever been seen in the West. Ten of these are bred to B. & L.'s Wonder, also a noted fair winner; four to Golden Model 3d, a son of the champion boar, Golden Model II., and five to Dusty Crimson, the champion boar at the Albion County Fair, and he was the hog that defeated all of the state fair winners. He is selling thirty-five choice gilts and ten of these are daughters of Belle's Crimson Wonder. Fifteen of these are sired by B. & L.'s Wonder and they are bred to Belle's Crimson Wonder. Some of the other gilts are sired by Ray's Wonder and Red Chief Wonder, and just remember what we say to you about them, that these are some gilts and you will say so when you see them. If you are looking for a real choice thing in the way of a brood sow or some great gilts, make it a point to attend Mr. Lamb's sale. E. Z. Russell will represent The Homestead at the sale and will care for any bids sent in his care.

Pfander & Sons' Giant Polands at Auction.

When it comes to talking about big Poland Chinas they will all have to take off their hats to J. W. Pfander & Sons, Clarinda, Iowa. When it comes to size there is no herd living that can show them any larger than can Pfander & Sons, and this is a statement that will be borne out by investigation and inspection. For the past eight or nine years we have been visiting the Pfander & Sons herd as well as various other herds throughout the West and we can truthfully say that when it comes to the really big ones the Pfander & Sons herd will make them all sit up and take notice. In their forthcoming annual winter sale on February 26th they will sell forty-five head and it is an offering that has every reason to attract the attention of those who are looking for strictly large-type Polands. There are a whole lot of attractions again in their sale, among which are a great many daughters of their former celebrated old boar, Long King, as well as several daughters of old A Wonder. Another feature of their sale is that they are selling three of the best sows they have ever listed for a sale and these are bred to A Wonder. These in themselves should attract breeders from both far and near. They are selling one matured sow by Long King and eight fall yearlings and these will make great foundation sows for anybody. No better herd sows of the extremely large kind ever lived than these daughters of old Long King, and this is one reason why we feel like urging our friends to buy one or two of these. One of the best sows they ever sold is King's Jumbo 3d, that will be No. 1 of the catalog. She is a daughter of Long King and is out of a daughter of old Jumbo. She is bred to their young boar, King of Wonders, a son of the noted A Wonder, and she will be a good sow for any breeder to buy. In the fall yearling, Pawnee Belle, they are offering a splendid sow and she goes in bred to old A Wonder. She is one of the best sows they will sell. In Nos. 3, 4 and 5 they are selling some splendid fall yearlings by old Long King. One of these is out of Wray's Giantess and the other is out of Crescent Giantess, and she in turn was a daughter of that famous old brood sow, Giantess. These are all bred to that splendid boar of theirs, Big Ben. Another great line-up of fall sows is Nos. 6, 7, 8, 9 and 10. The first sow named is a daughter of Mammoth King, that in turn is a son of Long King, and the remainder are all sired by old Long King. Any one of these will make a great brood sow and they are all bred to Big Ben. The two A Wonder fall yearlings are strictly choice sows and these are bred to Big Ben also. We might go on indefinitely mentioning the many good things they are selling, but you will get it all in their catalog if you will only send for it. It is a hummer from beginning to end and you will be interested in seeing it. When writing for it kindly mention this paper. M. T. White will represent The Homestead at their sale and will care for any bids sent in his care.

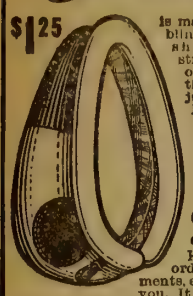
Jepson's Poland China Sale.

On February 15th, A. T. Jepson, Moorehead, Iowa, will sell forty head of Poland China bred sows, and he is putting up one of the best lots of sows that has ever gone through a sale in his section of the state. These sows are bred to his three boars now in use in the herd, viz.: Polly's Chief Price, a son of Miller's Chief Price, an exceptionally good and a big boar bred by John Miller; Combination Chief, a son of Big Combination, selected by C. C. Carlin as the best boar in the fall sale of Joe Goltry at Chariton, Iowa, and Giant King, a son of King Giant, that splendid boar that stood at the head of the Frank Owens herd at Weston, Iowa, and was formerly chief herd boar in the J. M. Sheehan herd at Stuart, Iowa. The sows that he will sell in this sale will be bred to these three boars. He will sell forty head, ten matured and tried sows, ten fall sows and twenty spring gilts. The fall sows will be sired by Pawnee Chief, a son of the noted prize-winning boar, Sioux Chief, and the spring gilts will be sired by Pawnee Chief, Big Wonder, Big Jumbo, King Giant, Big Hadley 3d and Ideal Wonder. The fall gilts will all weigh over 400 pounds and the spring gilts 300 pounds. No. 1 of the sale is a granddaughter of Pfander's Long King. She is a two-year-old sow weighing close to 600 pounds. She is as smooth as an apple and is bred to Polly's Chief Price for an early March litter. No. 2 is a yearling sow by Commander's Hadley. She is from the Owens herd and there will not be many better big-type sows sold this winter. She is a great big smooth sow and she is bred to Polly's Chief Price. No. 3 is a fall gilt by Pawnee Chief and out of a dam by Lonergan's Big Victor. She is a good, long, big-type gilt and she is bred to Polly's Chief Price for an early March litter. No. 4 comes from the Remington herd and is a daughter of that noted breeding boar, Big Hadley's Model. She is a splendid big sow and is bred to Big Combination for an early March litter. She is also the dam of a good spring gilt by Big Jumbo. This gilt is No. 20 of the catalog and is bred to Big Combination for a March litter. The three gilts by Big Wonder, out of Orange Lady by Orange Wonder, a half-brother to Big Orange, are big and will make fine brood sows weighing 300 pounds or better. They are bred to Giant King and Big Combination for early litters. Every sow in the sale is a good one. Write for his catalog and kindly mention The Homestead. C. C. Polly will represent The Homestead at the sale and will look after any bids sent in his care.

Can your horse use his full strength?

Horses with sore shoulders, or galls can not do their best work unless they have a comfortable, non-irritating collar. Besides being comfortable, the Lankford Horse Collar will cure galls and sore shoulders.

The Lankford HUMANE HORSE COLLAR



$1.25 is made with the idea of enabling a horse that has sore shoulders to put his full strength into his work without hurting him. It does this because it can be adjusted to fit any shape neck. It is stuffed with pure medicated cotton, which absorbs sweat and impurities thrown off by the sores and effects a speedy cure. Lasts three or more seasons. Acts as collar and pad combined.

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Keep a record of your sales, orders, business deals, appointments, etc., in the book we will send you. It won't cost you a cent. Send for it now—before you forget it. If your dealer hasn't the Lankford Collar, write us. Prices, $1.25 up.

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Dept F1, Waterloo, Iowa

Hamstring the Snout of your HOGS with a BELL-HART Anti Rooter

A boy can ham-string the snout of a hog in a moment with a BELL-HART tool. Once done, always done. Does not at any time interfere with ordinary feeding in pasture or pen, but Mr. Hog hasn't the power to lift the sod. Does not disfigure the finest show stock. Most humane of all known methods. Be the first to use the BELL-HART tool in your neighborhood.

Ask your dealer—if he does not carry it send us his name and $2.50 and we'll send you tool prepaid.

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BELL-HART TOOL CO., Manufacturers, Department 6. Palmyra, Illinois.

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No more high lifting or pitching. Saves you work and lightens draft nearly 50%. Don't rut fields or roads. We also furnish Electric Steel Wheels to fit ANY wagon. Wheels can't dry out or rot. Send for free book of facts and proofs.

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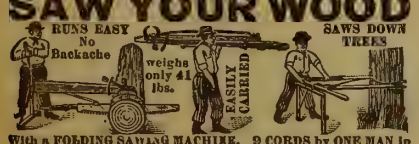
Harvey Bolster Springs

prevent damage to eggs, garden truck, fruits, live stock on road to market. Make any wagon a spring wagon. Soon save cost—produce brings bigger prices—wagon lasts longer—horses benefited—thousands in use—"my wagon rides like auto" says one. Get a pair at dealers. If not at dealer's write us. Insist on Harvey's. 40 sizes—fit any wagon—sustain any load to 10,000 lbs. Catalog and fistful of proofs free.

HARVEY SPRING CO., 734 17th St., Racine, Wis.

GUARANTEED

SAW YOUR WOOD



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Folding Sawing Mach. Co., 161 W. Harrison St., Chicago, Ill.

BOWSHER SWEEP MILLS

Different from all others. 4 or 2 horses. **Grind Corn with shucks** *and all small grains.* (Also make 10 sizes of belt mills)

FREE—Booklet on "Feeds and Manures"

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Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

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LAW QUESTIONS CONSIDERED.

DEEDS WITH CONDITIONS.

A Subscriber, Sawyer, Kan.—A and B are husband and wife, seventy and sixty-three years old, respectively. A owns a large tract of land in Kansas and wishes to deed all of it to his children in proportion as they deserve it, keeping an annuity in the various tracts of $500 to $800 for himself and his wife, payable semi-annually during their lives, such conditions to be put in the deeds to the children. A's wife concurs in this idea. How should such conditions be worded so there will be no chance for a lawsuit?

Answer.—The only safe and proper method for A and B to pursue is to have a good, local lawyer prepare the deeds to the children, after fully explaining to him the conditions upon which such conveyances are to be made. An attempt to make or prepare the deeds themselves would be likely to breed lawsuits.

PARTITION FENCE IN ILLINOIS.

Mr. Arthur Drake, Clare, Ill.—I own 160 acres of land. Two neighbors own adjoining land on two sides of it and own half of the partiion fence. I intend to incluse my land with a woven-wire hog and sheep-tight fence. Does the law require my neighbors to make their portions of the partition fence tight in like manner, and if so, what steps must I take to have them do so?

Answer.—The law requires your neighbors to build and keep up a lawful fence on half of the division line between your land and theirs. A lawful fence must be four and a half feet high consisting of rails, timber, boards, stone, hedges, barbed wire, or whatever the fence viewers of the town or precinct shall consider equivalent thereto, provided that in counties under township organization the electors at any annual town meeting may determine what shall constitute a legal fence. You can only compel your neighbors to make a legal fence. If they refuse to do so you should complain to the fence viewers, who will order it done and if your neighbors then fail to do so you may build such fence at their expense and may recover such expense with costs of suit.

EXEMPT PROPERTY—LIEN.

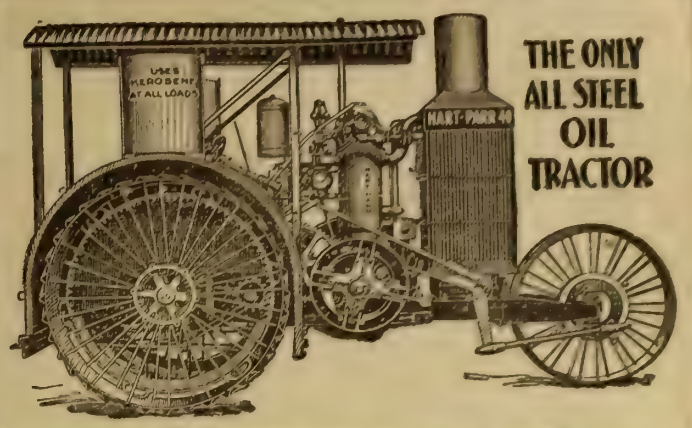
A Subscriber, Marshalltown, Iowa.—(1) What amount or articles are exempt from foreclosure of a mortgage in the state of Montana? If about the same as in Iowa, mention the exceptions—I have the Iowa code. (2) Does the law of Montana provide for a lien on grain in favor of the thresherman?

Answer.—(1) The law of Montana exempts to a farmer from sale or execution, farming utensils or implements of husbandry, not exceeding in value $600, two oxen, or two horses or mules and their harness, one cart or wagon, set of sleds, food for oxen, horses, cows or mules for three months, seed, grain and vegetables on hand to amount of $200. Also all wearing apparel of family, chairs, tables, desk and books to value of $200, household tables and kitchen furniture, provision and fuel for three months, horse, saddle and bridle, two cows and their calves, four hogs, fifty fowls, clock and family pictures, and feed for animals for three months. If such articles or any of them are mortgaged such are not exempt from foreclosure of the mortgage. (2) The law of Montana provides no specific lien in favor of threshermen.

INHERITANCE TAX IN NEBRASKA.

A Subscriber, York, Neb.—Is there an inheritance tax law in the state of Nebraska, and if so, what are its main features?

Answer.—There is such a law in Nebraska. When an estate passes to a father, mother, husband, wife, child or children, brothers or sisters, or wife or widow of a son, or husband of a daughter, or any adopted child or children, if such estate amounts to more than $10,000 an inheritance tax must be paid on the excess above that amount at the rate of $1 on every $100. When such estate passes to any uncle, aunt, niece, nephew or any descendants thereof, the rate of tax is $2 on every $100 in excess of $2,000. In all other cases the rate of tax is $2 on every hundred up to $5,000, $3 on every hundred between $5,000 and $10,000, $4 on every hundred between $10,000 and $20,000, $5 on every hundred between $20,000 and $50,000 and $6 on every hundred when estate is more than $50,000. Estates of $500 or less are exempt. The tax is due at the time of death, but must be paid within one year.



THE ONLY ALL STEEL OIL TRACTOR

A MONEY MAKER ON CORN BELT FARMS

HERE is a general purpose farm tractor, built especially for Corn Belt farms. A tractor that really does make good on Corn Belt farms. It's the

Hart-Parr Oil Tractor

Not a cheap, over-rated, flimsily constructed machine that soon wears and tears itself to pieces, but a tractor designed right, built right and adjusted right in every particular. It's the only all steel oil tractor ever built. The frame, axles, drive wheels, gears, etc., all are of the highest grade steel. This construction gives you a tractor with 50% greater strength than any other. There is no dead, useless weight to drag around and waste power.

Wonderful Drive Wheels

The drive wheels are fitted with wave formed lugs, riveted to the tires. These lugs enable the tractor to work on soft soil that would force other tractors to stand idle. As soon as spring opens up, you can start plowing—then disc, harrow and seed in double quick time, while weather conditions are most favorable. Hart-Parr drive wheels work perfectly on newly plowed ground, and do not injuriously pack the soil.

The countless other farm jobs that this tractor will do quicker, better and cheaper than horses, makes it the biggest profit earner on Corn Belt farms of 160 to 500 acres. Not only is it an ideal outfit for every kind of traction work, but it also furnishes unfaltering power in the belt. It will drive separators, shellers, shredders, huskers, silo fillers—in fact, all belt driven farm machinery—with a steady hum that means more dollars in your pocket, with all hard drudgery entirely eliminated. In spare time, use the tractor for building good roads and add to your earnings.

No matter what kind of work you are doing, one man easily operates and cares for a Hart-Parr Tractor. It's a One-Man outfit. Uses **cheapest kerosene** for fuel at all loads. The engine is oil cooled.

We want to send every Corn Belt farmer our new 1913 catalog, fully describing our 30 and 40 BHP Corn Belt Tractors. Write for your copy today, and also ask for our literature on power farming costs.

HART-PARR COMPANY, 228 Lawler St., Charles City, Ia.

67

Wood Sawing

demands an engine with plenty of power; one that does not "die down" if the wood is a little hard or knotty.

Jack of All Trades Kerosene Engines

give more power than rating calls for—always have a surplus for emergencies. Turn out lots of work at little cost as they run as well on kerosene (coal oil) as on gasoline. Simple. Reliable. Durable. Always ready—will last for years and work every day. Run anywhere, anytime.

2-4-6 H. P. Horizontal; also other types and sizes.

Saw Frames strongly built of best materials. Sliding or tilting tables.

Write for Catalog No. FF 603 State size and type of outfit required.

Fairbanks, Morse & Co.
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Portable Outfits also furnished. Order one and make good money sawing for neighbors.

Fairbanks Scales, Oil Traction Engines, Pumps, Water Systems, Electric Light Plants, Wind Mills, Feed Grinders

The records of 12 years prove Firestone economy. Car owners get most mileage out of Firestone Tires because most mileage is built into them.

Firestone

Non-Skid Tires

are Non-Skid in *fact* as well as *name*. Deep hollows, sharp edges, abrupt angles grip road—increase traction—reduce expense, give longest wear. *Book Free*--"What's What In Tires"—by H. S. Firestone. Ask for it.

The Firestone Tire and Rubber Co.
Akron, Ohio—All Large Cities
"America's Largest Exclusive Tire and Rim Makers"

Study the Bills of a Firestone User

Cleaner Corn —Higher Prices

Shell your own Corn and your neighbors too

Take in what you've been *paying out* for corn shelling—and *much more*—by shelling your own and your neighbor's corn. Get 1 to 3 cents more per bushel for your corn by shelling it *cleaner* and grading it one or two grades higher. Shell your corn any day you have the time—days when you have no other pressing work.

The REEVES Power Corn Sheller

will soon pay for itself and return you handsome yearly profits. *Makes quick work*, shells over 1,000 bushels per hour. *Shells cleaner*, because it has the most advanced type of suction fan. Will stand many years of the hardest use. Built on the cone cylinder type—has long ribs, chilled to stand hardest wear. The cob carrier swings to right or left or out ahead, throwing cobs clear of the machine and wagons. Let us prove to you how you can make big money this year, and also get higher prices for your own corn by shelling it *clean*.

WRITE FOR CATALOG explaining the superiority of the *Reeves Sheller* in detail.

Emerson-Brantingham Implement Co., (Incorporated) **359 Iron St., Rockford, Ill.**
29313 **Largest Line of Farm Machinery in the World**
Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Road Rollers, Wagons and Vehicles.

Mayer Honorbilt Shoes are first in style and unapproached in quality. The superiority of Mayer Honorbilt Shoes for men, women and children is established beyond question. At the price they cannot be equalled by any other shoes in America.

Mayer HONORBILT SHOES

Mayer Honorbilt Shoes are made for lasting service. Excellent stock and fine workmanship make this possible. If you want the biggest shoe value, ask for Honorbilt Shoes. If your dealer cannot supply you, write to us.

WARNING—Be sure and look for the Mayer name and trade mark on the sole

We make Mayer Honorbilt Shoes in all styles for men, women and children; Drysox, Yerma Cushion Shoes, and Martha Washington Comfort Shoes.

FREE—Send name of dealer who does not handle Mayer Honorbilt Shoes and we will send you free, postpaid, a handsome picture, size 15x20, of George or Martha Washington.

F. Mayer Boot & Shoe Co. Milwaukee.

News of the Sale Ring.

Freed's Duroc Jersey Sale.

S. P. Freed, Ames, Iowa, held his ninth annual public sale of Duroc Jerseys on January 20th. He had the usual large attendance, although the percentage of breeders was not as large as the character of the offering justified. Forty head of sows were sold at an average of $46.04 each. It was an extremely even sale, $90 being the top figure and nothing less than $25. The complete list of animals sold is as follows:

Lady Browning, W. W. Opie, Winfield, Kan.	$63.00
Litter sister, New Jersey Agricultural College, New Brunswick, N. J.	62.00
Chief's Lady, Harry Sheehe, Ames, Iowa	52.00
Chief's Lady 2d, Joe Gladwin	50.00
B. & C.'s Col. sow, E. A. Calkin, Ruthven, Iowa	65.00
Ohio Girl, C. J. Yarn, Ankeny, Ia.	68.00
Freed's Col. yearling, Harry Sheehe	46.00
Freed's Col. yearling, Oliver Cole, Forest City, Iowa	44.00
Freed's Col. yearling, L. E. Mather, Ames, Iowa	41.00
Freed's Col. yearling, George Glad, win	38.00
Rupert's Best, Theo. Vanek, Lamont, Iowa	72.00
Freed's Col. Lady 1st, G. W. Mead, Corydon, Iowa	50.00
Freed's Col. gilt, L. M. Zumaalt, Ames, Iowa	28.00
Freed's Col. gilt, E. A. Calkins	26.00
Freed's Col. gilt, W. E. Daly, Anamosa, Iowa	37.00
Freed's Col. gilt, T. B. McAndrews, Vail, Iowa	50.00
Freed's Col. gilt, Chas. Seaman, Jefferson, Iowa	50.00
Freed's Col. gilt, F. E. Letter, Cambridge, Iowa	43.00
Freed's Col. gilt, New Jersey Agricultural College	43.00
Freed's Col. gilt, A. H. Bank, Ames, Iowa	40.00
Wonderful Crimson Again gilt, E. F. Posegate, Ames, Iowa	26.00
Wonderful Crimson Again gilt, L. F. Fairchild, Webster City, Iowa	27.00
Wonderful Crimson Again gilt, Alvin C. Hasty, Kalona, Iowa	90.00
Wonderful Crimson Again gilt, Henry Jacobson, Gilbert, Iowa.	40.00
Wonderful Crimson Again gilt, C. B. Jennings, Boone, Iowa	35.00
Wonderful Crimson Again gilt, J. L. Stuart, Blairstown, Iowa	51.00
Freed's Col. gilt, J. J. Mather, Ames, Iowa	30.00
Freed's Col. gilt, J. L. Stuart	47.00
Crimson Chief Again gilt, Earle Elijah, Clarence, Iowa	50.00
Freed's Col. gilt, Roy Riggs, Ames, Iowa	50.00
Freed's Col. gilt, L. M. Zumaalt	33.00
Wonderful Crimson Again gilt, Oliver Cole	50.00
Wonderful Crimson Again gilt, L. F. Fairchild	32.50
Wonderful Crimson Again gilt, Will Thompson, Jefferson, Iowa	49.00
Wonderful Crimson Again gilt, L. J. Miller, Madrid, Iowa	51.00
Wonderful Crimson Again gilt, Will Thompson	68.00
Freed's Col. gilt, A. H. Banks	35.00
Freed's Col. gilt, Will Thompson	45.00
Freed's Col. gilt, A. H. Banks	35.00
Model Col. gilt, J. I. Mather, Ames, Iowa	28.00
Yearling, not cataloged, Will Thompson	51.00

The Herring Poland China Sale.

One of the largest crowds seen at a Nebraska sale this year was in attendance at Columbus, Neb., on January 23d, when Chas. Herring disposed of fifty-four head at an average of $71. Breeders were present from all parts of the state as well as many from Iowa and Illinois, and they took hold of the offering in good shape. The top of the sale was Smooth Mollie 2d and she went to R. B. Baird at $300. It was a good offering and was well appreciated by the breeders present. Col. W. B. Duncan cried the sale. Below we list those selling for $40 and above:

1. E. E. Matticks, Spring Ranch, Neb.	$125.00
2. J. W. Pfander & Sons, Clarinda, Iowa	95.00
3. J. F. Collins, Chicago, Ill.	200.00
4. R. M. Castle, LaHarpe, Ill.	77.50
5. A. T. Jepson, Moorehead, Ia.	62.50
6. A. L. Bedell, Diagonal, Iowa.	42.50
7. Grant Brennan, Central City, Neb.	55.00
8. R. B. Baird, Central City, Neb.	300.00
9. W. M. Mather, O'Neill, Neb.	105.00
10. J. F. Collins	100.00
11. J. F. Collins	80.00
12. A. L. Bedell	45.00
13. Bert Way, Virginia, Ill.	42.50
14. Fred Willie, Columbus, Neb.	42.50
15. Eli Stangland, Albion, Neb.	40.00
16. W. M. Mather	60.00
17. J. L. Gutchall & Son, Sheffield, Ill.	100.00
18. L. W. Hamilton, Kearney, Neb.	57.50
19. J. L. Gutchall & Son	100.00
20. W. M. Mather	85.00
21. J. E. Tucker, Lebanon, Ind.	70.00
22. J. E. Foster, West Plains, Mo.	182.50
23. L. H. Bellows, Lushton, Neb.	52.50
24. W. M. Deeds, Stromsburg, Neb.	52.50
25. Henry Dorr, Remsen, Iowa.	110.00
26. John Sibal, Burwell, Neb.	115.00
27. Wm. Keep, Atlantic, Iowa.	85.00
28. Frank Roberts, Earlham, Ia.	90.00
29. J. F. Collins	60.00
30. Hornby Bros., Winside, Neb.	57.50
31. R. M. Castle	60.00
33. J. L. Gutchall & Son	52.50
34. Ira Kyle & Son, Mankato, Kan.	45.00
35. R. M. Castle	60.00
36. J. F. Collins	57.50
37. Louis Blasser, Columbus, Neb.	60.00
39. W. M. Deeds	60.00
40. M. G. Arnold & Son, Strawberry Point, Iowa	47.50
41. E. E. Walls, Fullerton, Neb.	42.50
43. J. F. Collins	75.00
44. Eli Stangland	42.50
46. J. F. Collins	57.50
47. J. F. Collins	65.00
48. J. F. Collins	60.00
50. J. L. Gutchall & Son	40.00
52. Henry Smith, Octavia, Neb.	47.50
53. Hornby Bros.	47.50
54. W. M. Deeds	40.00
56. John Sibal	40.00
57. F. W. Schaeffer, Oconee, Neb.	40.00
58. R. M. Castle	170.00
31½. Guth Bros., Manning, Iowa	44
32. F. A. Barr	50
33. J. T. Denny	74
34. J. F. Lentz, Earlham, Iowa	49
35. J. B. Ashby	50
36. W. R. Baskerville	48
37. K. O. Walters, Glidden, Iowa	54
38. F. A. Barr	46
39. Joseph Seddon	40
40. A. J. Cameron, Harlin, Iowa	61
41. Ed Golden, Glidden, Iowa	47
43. W. W. Tregloan, Carroll, Iowa.	41

De Young's Duroc Jersey Sale.

The sale of Duroc Jersey hogs held by the De Young Bros. at the L. L. De Young farm in the edge of Sheldon, last Friday, was a decided success. It ws a well-attended-sale and the crowd which was present was a crowd that wanted hogs. These men have a fine herd and the old-time customers of the gentlemen know that the hogs sent out are good doers. This reputation has made good for the men, and the fine lot of sows that were put through the sale ring last week were certainly appreciated by the men who were at the sale. Only sixty head were cataloged, but several over that were sold, and it did not require much persuasion to find buyers for the sows, either. The top of the sale was the object of considerable competition before she was finally knocked down to A. H. Moen, Inwood, Iowa, at even $150. She was run to this figure by two prominent breeders, C. A. Devaul and Grant Lynn, both of whom were prominent bidders on the best stuff in the sale. Ralph Bartels, Sioux Center, Iowa, bought one of the choicest gilts in the sale at the top price for the spring pigs of $100. Among the other buyers who took home good ones

For the Telephone For the Gas Engine

Costs Less Than a Half Bushel of Corn

At a cost of a few pennies for each French Dry Battery—less than the price of half a bushel of corn—you can have a supply of electricity "on tap" always.

Don't Miss This!

French Dry Batteries will save you endless time, miles of steps and lots of money. The next time you fill up that dangerous kerosene lantern and "hike" for the barn in the dark, remember that French Dry Batteries in an electric flasher would supply the necessary light. Think of the advantage of having a telephone line from the house to the barn, or being able to open the front gate without leaving the porch and dozens of other conveniences. There's no dirt, delay and inefficiency with a French Dry Battery—the "juice" is there right on the job ready for instant use.

These marvelous batteries are scientifically constructed packages of electricity. They are *special* purpose batteries built for a *special* job. Thousands of auto owners insist on the French "Auto Special"—the dry-cell battery with the *blue* label. The *green* labeled French Telephone Cells are for all household uses.

Long-Life Batteries

French Dry Batteries give a strong current for a *long* period. Ordinary batteries give a weak current for a *short* time and then quit altogether. French Dry Batteries *save time* for a *long time*. Your dealer will tell you the particular French Battery you need. If you want to know more about these wonderful French Dry Batteries and how they can help you do your farm work, send your name and address on a postal. We'll answer by return mail. Write tonight.

FRENCH BATTERY & CARBON CO.
2 Inca Street, MADISON, WIS.

were F. H. Dickey, Emmetsburg, Iowa; T. E. Bly, Brewster, Minn.; R. C. Veenker, Gearke Bros., C. E. Walden, A. L. Neville and others whose names are listed below. The average of the sale was over $60 on the cataloged lots, and the total of the entire sale was right at the same figure. Col. J. A. Benson cried the sale. The following is a list of the buyers at $50 or more:

1.	Chris Larsen, Round Lake, Minn.	$ 96.00
2.	L. B. Cranston, Estherville, Iowa	107.00
3.	A. H. Moen, Inwood, Iowa	150.00
6.	J. J. Castle, Inwood, Iowa	75.00
7.	Henry Wegter, Sheldon, Ia.	55.00
9.	John Roskamp, Kanawha, Ia.	50.00
10.	R. C. Veenker, George, Iowa.	67.50
11.	C. A. Devaul, Inwood, Iowa.	55.00
12.	Mr. Van Zile, Alton, Iowa.	51.00
14.	Grant Lynn, Spirit Lake, Ia.	71.00
16.	Geo. Jeffers, Rock Rapids, Ia.	50.00
19.	G. H. Willsie, Prosper, Minn.	70.00
20.	H. Luymers, Boyden, Iowa.	59.00
21.	C. A. Devaul, Inwood, Iowa.	82.50
22.	L. E. Knowlton, Canton, S. D.	56.00
23.	Mr. Van Zile	62.00
24.	Mr. Van Zile	80.00
Ex.	Ed Keiser, Wilmot, Minn.	72.50
25.	Henry Wegter	57.50
26.	Geo. Jeffers	61.00
27.	Ed. Gearke, Aurelia, Iowa.	68.00
28.	Stover Bros., Pipestone, Minn.	65.00
29.	R. A. Jefferis, Rock Rapids, Iowa	52.00
31.	Ralph Bartels, Sioux Center, Iowa	100.00
32.	A. L. Neville, Aurelia, Iowa.	65.00
34.	L. E. Knowlton	50.00
36.	Henry Wegter	67.00
38.	Mr. Van Zile	66.00
41.	James Shanks, Worthington, Minn.	51.00
42.	J. J. Castle	85.00
42.	T. E. Bly, Brewster, Minn.	60.00
44.	T. E. Bly	55.00
45.	L. E. Knowlton	70.00
46.	J. B. Bowers, Le Mars, Iowa.	54.00
47.	J. B. Bowers	54.00
49.	F. H. Dickey, Emmetsburg, Iowa	83.00
51.	James Shanks	76.00
53.	A. A. Fena, Spencer, Iowa.	56.00
54.	C. G. Jefferis, Rock Rapids, Iowa	54.00
59.	H. J. Luymers	50.00
60.	C. E. Walden, Washta, Iowa.	60.00

Boesiger's Duroc Jersey Sale.

A very nice breeders' attendance and a fair local gathering was on hand at the annual sale of Duroc Jersey bred sows made by David Boesiger, Cortland, Neb., on January 27th. Sows bred to Widle's Wonder, the first-prize boar at the Nebraska State Fair last season, were in good demand, and added a good many dollars to the total of the sale. The top was $70, the same being paid by E. J. Brown, Osceola, Neb. She goes to one of the oldest and strongest herds of the state and was well worth the price. Wm. Bornemeier, Elmwood, Neb., was a contending bidder on all of the better ones and secured one or two. Frank Kaiser, Daykin, Neb., was one of the chief supports of the sale, taking two head and contending for all of the good ones. Colonel Callahan conducted the sale in his usual efficient manner. The entire offering made an average of $42 per head. Those selling for $35 or more are listed:

1.	E. J. Brown, Osceola, Neb.	$70
2.	B. B. Jackson, Cortland, Neb.	50
5.	John Boesiger, Firth, Neb.	65
6.	Wm. Retzlaff, Bennet, Neb.	42
7.	Wm. Bornemeier, Elmwood, Neb.	50
8.	Frank Kaiser, Daykin, Neb.	54
12.	J. T. Whalen, Cortland, Neb.	42
13.	B. B. Jackson	56
14.	S. L. Hunter, Benkleman, Neb.	51
15.	Frank Kaiser	51
21.	E. J. Brown	35
22.	E. E. Griser, Cortland, Neb.	37
23.	John Boesiger	42
27.	F. G. Moormere, Firth, Neb.	36
28.	John Boesiger	52
32.	Chas. Bettenhausen, Princeton, Neb.	39
38.	J. T. Whalen	40
39.	Wm. Pap, Cortland, Neb.	44

The Long Poland China Sale.

A good turnout of farmers and a number of breeders were present at the James G. Long sale at Harlan, Iowa, on January 24th, and he sold fifty-five head at an average of $35. No. 11 topped the sale at $150, going to D. J. Blumendahl, Alton, Iowa. Cols. "Billy" Cooper and Nels Kraschel cried the sale and both did excellent work. Below we list those selling for $30 and above:

1.	Matt Domino, Defiance, Iowa.	$40
2.	Tom Leytham, Harlan, Iowa.	51
4.	Tom Leytham	63
7.	C. W. Roberts, Hayesville, Iowa	45
5½.	Fred Louie, Harlan, Iowa.	39
6.	Mike Christiansen, Harlan, Iowa	40
8.	J. M. Nesbitt, Aledo, Ill.	70
5.	Matt Domino	35
9.	Mike Christiansen	56
11.	D. J. Blumendahl, Alton, Iowa.	150
12.	C. C. Nicholson, Lohrville, Iowa	70
13.	J. M. Pemberton, Fayette, Mo.	33
14.	C. J. Zimmerman, Earling, Iowa	35
15.	C. J. Zimmerman	35
20.	Fred Louie	31
21.	Joe Roseman, Harlan, Iowa.	38
38.	Geo. Larson, Harlan, Iowa.	31
32.	Earl Miller, Randolph, Neb.	30
33.	John C. Nyrup, Harlan, Iowa.	35
31.	J. G. Westrope & Son, Harlan, Iowa	31
39.	Chas. Long, Harlan, Iowa.	39
50.	C. C. Polly, Whiting, Iowa.	30
58.	John Robinson, Harlan, Iowa.	30
41.	Nels Jorgenson, Corley, Iowa.	39

Herring's Duroc Jersey Sale.

F. H. Herring, Kalona, Iowa, dispersed his entire herd of Duroc Jerseys in Iowa City, Iowa, January 21st. The sale was very successful, as Mr. Herring had a fine lot of stock and every buyer got extraordinary values. The top of the sale was Golden Model 30th, a prize-winning boar, selling to H. A. McCaffree. F. L. Bissell was a good buyer and bidder on the better

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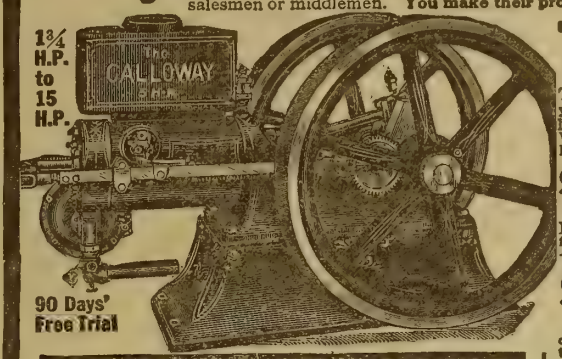

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That's the way to buy an engine, **and it's the only way that's absolutely fair to you,** and that's the only way that I'll sell an engine, because I won't keep a dollar of any man's money **unless he would rather have my engine than the cash.** When a man will tell me that—then and not until then do I consider a sale as made. Every single man who does business with me is absolutely protected by my

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I back every promise, every statement and every claim with $5,000 **in cash.** I protect every one of my customers by a $25,000 guarantee of **absolute satisfaction.** Understand, I don't say **reasonable satisfaction** but **ABSOLUTE satisfaction —AND YOUR WORD is always good with me.**

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Here are a few expressions from farmers now using Galloway Engines. Twenty thousand others have had exactly the same experiences. These are men just like yourself. **Before they bought a Galloway they were in exactly the same position as you are now.** You will say exactly the same as they do after you get your Galloway.

Alex. McLachlan, Argyle, Mich. I received my Galloway Engine last week and it is all right. Everybody says it is a dandy engine. **Some of my neighbors got bit on other engines** by paying $400 for a 9 h. p. and $460 for a 10 h. p. I like your engine dandy.

Fred Ruthardt, Mt. Vernon, S. D. I must say the engine is all right. **I saved about one hundred dollars in** buying from you. I don't want to be without the engine, not at all. I use it for shelling corn and grinding feed.

Frank Peck, Dorchester, Neb. My Galloway Gasoline Engine does lots of work for me. It shells corn, saws wood and grinds feed. I have no trouble with it. It is simple and easy to start. **My twelve-year-old boy starts it easily.**

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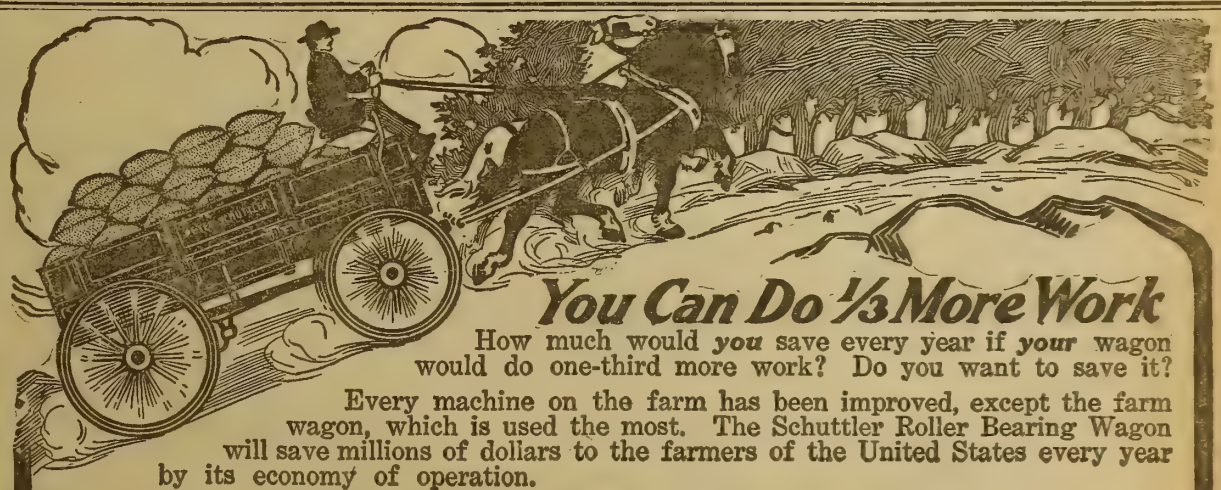

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Every machine on the farm has been improved, except the farm wagon, which is used the most. The Schuttler Roller Bearing Wagon will save millions of dollars to the farmers of the United States every year by its economy of operation.

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They run one-third to one-half easier and require less power to pull the load. They go more miles, and two horses can easily do the work of three. They save time—horses—harness—feed—repair bills—greasing—trouble, and wear on the wagon. It means a big saving to you in time and money, and is much easier on the horses. Official tests by Road Experts of the U. S. Department of Agriculture show remarkable results. You owe it to yourself to investigate.

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sorts. Edwin Hummer & Sons secured the top sow in No. 7, an excellent individual, at $100. A list of the sales is appended:

1.	H. A. McCaffree, Janesville, Iowa	$200.00
4.	W. A. Thomas, Iowa City, Ia.	60.00
5.	Wm. Daly, Anamosa, Iowa..	55.00
6.	F. L. Bissell, Winterset, Ia..	95.00
7.	Edw. Hummer & Sons, Iowa City, Iowa	100.00
8.	W. J. Johnson & Son, Cedar Falls, Iowa	80.00
9.	W. J. Johnson	85.00
10.	F. L. Bissell	80.00
11.	Chas. Kaufman, South English, Iowa	67.50
12.	W. A. Thomas	50.00
13.	E. K. Ives, Iowa City, Iowa.	97.50
14.	Chas. Lotsena, Iowa City, Ia.	55.00
15.	R. G. McDuff, Monroe, Iowa.	57.50
16.	Chas. Lotsena	47.50
17.	C. C. Clark, Iowa City, Iowa	52.50
18.	F. M. Kouba, Iowa City, Iowa	50.00
19.	Wm. Daly	45.00
23.	H. W. Lineweaver, South English, Iowa	42.50
24.	Frank N. Crow, Oxford, Ia..	42.50
26.	Chas. E. Long, Kinross, Iowa	42.50
29.	M. Roberts, Oxford, Iowa....	40.00

SUMMARY.

28 head .....$1,687.50 ;aver.....$61

Eakle & Son's Duroc Jersey Sale.

On Tuesday, January 31, 1913, S. E. Eakle & Son held a most successful Duroc sale at Prophetstown, Ill. While the average on forty-two head was $48, the quality of the offering was such that more money could have been paid and no one hurt. Cols. H. S. Allen, C. C. Plumley and Fruin did excellent work in selling. Below is a partial list of buyers and prices paid:

1.	H. Bigelow & Son, Aledo, Ill.	$ 67.50
2.	E. E. Stemen & Son, Middlepoint, Ohio	165.00
3.	M. Whiteman, Monroe Center, Ill.	57.00
4.	E. H. Parker, Janesville, Wis.	50.00
5.	J. H. Henniger, Geneseo, Ill.	75.00
6.	E. J. Queenbury, Prophetstown, Ill.	40.00
7.	Ira Dodson & Son, Aledo, Ill.	45.00
8.	Stewart & Hansen, Prophetstown, Ill.	34.00
9.	Peter Streit, Lamoille, Ill...	84.00
10.	Chas. Moulton, Morrison, Ill.	130.00
12.	L. Salens, Milan, Ill.	35.00
13.	Chas. Moulton	40.00
15.	Ralph O. Grady, Prophetstown, Ill.	42.00
16.	Mr. McLaughlin, Sublet, Ill.	54.00
17.	Roy Covell, Prophetstown, Ill.	30.00
18.	F. Seeley, Prophetstown, Ill.	32.00
19.	Roy Covell	31.00
20.	Roy Covell	31.00
24.	Percy Fruin, Orego , Ill.	42.00
31.	L. Salins	55.00
35.	Henry Samburt, Prophetstown, Ill.	39.00
36.	Louis Schnieder, Prophetstown, Ill.	41.00
37.	J. H. Henniger	40.00
38.	A. J. Williams, Prophetstown, Ill.	38.00
39.	E. H. Chamberlin, Prophetstown, Ill.	38.00
40.	A. J. Williams	38.00
41.	E. J. Queenberry	37.00
42.	Roy Covell	31.00

Goodenough's Hampshire Sale.

One of the good illustrations of the appreciaiion of the work of a constructive breeder was the Hampshire sale held by A. L. Goodenough, Morrison, Ill., on January 27th. Mr. Goodenough has been recognized as an excellent breeder and judge by all Hampshire breeders and the average he made in this sale shows that breeders know the value of the class of hogs bred by Mr. Goodenough and were willing to pay the price for them. No. 1 was the top sow, selling at $250 to H. Atkinson, and she was considered a decided bargain at the price. Clayton Messenger was the contending bidder on this sow and on many of the other good ones. C. A. Brook, H. Niswander, E. E. Piper, J. D. Piper, Tice Bros. and John Vigor were liberal bidders and buyers of the good ones. In fact, good Hampshires were the only kind sold in this sale and breeders expressed the opinion that a better lot had not been sold in one sale. Colonels Reppert and Igleheart did good work in selling the offering. A list of the sales is appended:

1.	H. Atkinson, Mt. Sterling, Ky.	$250.00
2.	A. Oitiker, Barry, Ill.	130.00
3.	E. E. Pifer, Palestine, Ill...	112.50
4.	W. Kennedy, Maple Park, Ill.	59.00
5.	Clayton Messenger, Keswick, Iowa	76.00
6.	T. D. Tice, Pella, Iowa.	87.50
7.	C. A. Brook, Washington, Ia.	57.50
8.	W. Bull, Union Grove, Iowa.	62.50
9.	J. D. Pifer, Palestine, Ill....	71.00
10.	Hughes Atkinson	72.00
11.	Long Bros., Elwood, Ill.	56.00
12.	Long Bros.	77.50
14.	T. M. Joice, Eagle Grove, Ia.	67.50
15.	T. M. Joice	59.00
16.	J. H. Finn, McCoal Jct., Neb.	55.00
17.	Zehr Bros., Peoria, Ill.	17.00
18.	W. Bull	52.50
19.	C. A. Brook	80.00
20.	H. Niswander, Kinross, Iowa	110.00
21.	J. Vigor, Steamboat Rock, Ia.	85.00
22.	W. Bull	51.00
23.	D. D. Shadacker, Wall Lake, Iowa	62.00
24.	John Mahne, Aledo, Ill.	73.00
25.	N. A. Gault, Elizabeth, Ill...	40.00
26.	Essig Bros., Tipton, Ind.	56.00
27.	Zehr Bros.	40.00
28.	D. F. Swank, Rock Falls, Ill.	57.00
29.	A. F. Goss, Beloit, Wis.	56.00
30.	C. J. Shin, Pittsfield, Ill.	52.00
31.	A. Oitiker	65.00
33.	John Vigor	46.00
34.	D. Palme, Owasa, Iowa.	54.00
35.	Clayton Messenger	51.00
36.	W. M. Tice, Pella, Iowa.	62.00
37.	R. S. Rynil, Homer, Neb.	41.00
39.	W. B. Wheelock, Colfax, Iowa	45.00
40.	M. Lappe, Carroll, Iowa.	72.50
41.	Essig Bros.	53.00
42.	Geo. Lippert, Magnolia, Ill..	62.00
44.	J. A. Zeigler, Sterling, Ill...	46.00
45.	Tice Bros., Sully, Iowa.	58.00
46.	D. Palmer	54.00

SUMMARY.

47 head .....$3,050; aver.....$65

The Shade Duroc Sale.

One of the greatest sales of Duroc Jersey sows held so far this year was that of J. A. Shade at Kingsley, Iowa, on January 21st, when he disposed of seventy head of sows and two boars at an average of $76 80. The top of the sale was that splendid boar, Missouri Model Top, and he went to R. J. Weiland, Canistota, S. D., at $435. The top of the sows was Sunlight and she went to Maloy Bros. at $210 and her litter sister went to Frank Gingsbach at $200. It was a great sale, everything going at good, remunerative prices. Below we list those selling for $40 and above:

1.	Missouri Model Top; R. J. Weiland, Canistota, S. D.	$435.00
2.	King Superba; John Moise, Lawton, Iowa	85.00
3.	L. E. Michaels, Heckling, S. D.	105.00
4.	Geo. Colt, Puckawana, S. D..	45.00
5.	Harry Sager, Kingsley, Iowa	52.50
6.	J. H. Hendrickson, Marcus, Iowa	45.00
7.	C. A. Deval, Inwood, Iowa..	90.00
8.	Maloy Bros., Montrose, S. D.	210.00
9.	Frank Gingsbach, Dell Rapids, S. D.	200.00
10.	W. E. Abbey, Hawarden, Ia.	72.50
11.	John Gaden, Remsen, Iowa.	42.50
12.	Chas. W. Jones, Conway, Ark.	140.00
13.	R. J. Weiland	100.00
14.	E. J. Wilson, Renville, Minn.	110.00
15.	Wm. Taylor, Ireton, Iowa...	82.50
16.	G. H. Willsie, Prosper, Minn.	62.50
17.	C. R. Steele, Ireton, Iowa...	92.50
18.	W. N. Shank, Worthington, Minn.	85.00
19.	Chas. Gooth, Kingsley, Iowa	65.00
20.	W. E. Abbey	100.00
21.	Frank Gingsbach	80.00
22.	W. E. Abbey	75.00
23.	W. H. Rusty, Centerville, S. D.	70.00
24.	Maloy Bros.	100.00
25.	Henry Anderson, Tea, S. D.	100.00
26.	W. C. Thompson, Jessup, Ia.	61.00
27.	I. S. Givens, LeMars, Iowa..	65.00
29.	E. J. Wilson	70.00
31.	I. S. Givens	105.00
32.	James Williams, Marcus, Ia	102 50
33.	J. S. Heacock, Kingsley, Ia.	82.50
34.	G. B. McAndrews, Vail, Iowa	47.50
35.	W. E. Abbey	67.50
36.	W. S. Howard, Cedar, S. D..	52.50
37.	J. J. Crowley, LeMars, Iowa	47.00
38.	John Butzner, Kingsley, Ia.	70.00
39.	Rowley Bros., Kingsley, Iowa	47.50
40.	J. J. Crowley	45.00
41.	John Butzner	62.50
42.	W. E. Abbey	100.00
43.	Jas. Heacock	100.00
44.	Crowley Bros.	52.50
45.	A. A. Lein, Leland, Iowa.	57.50
47.	Frank Gingsbach	57.50
48.	L. C. Leslie, Sioux City, Iowa	55.00
49.	Crowley Bros.	40.00
50.	T. E. Bly, Brewster, Minn..	72.50
51.	Rude & Son, Moorehead, Ia..	77.50
53.	Pat McGuire, Holstein, Iowa	72.50
54.	Geo. Summeymyer, Kingsley, Iowa	60.00
55.	Ed Kyle, Kingsley, Iowa...	62.50
56.	John Moise	40.00

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"BULL" DURHAM
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Wedd & Son's Sale of Big, Smooth Poland Chinas.

Geo. Wedd & Son, Springhill, Kan., will sell on Thursday, February 20th, at their farm adjoining Springhill, fifty head of big-type Poland China bred sows that should attract from a wide territory, as it is becoming more generally known each year that these gentlemen are producing hogs that make good wherever they go. They are conservative gentlemen who have let the hogs do the bulk of the advertising. Ten head of the offering are tried sows and mostly the get of their first herd boar, Kansas Wonder; sixteen are fall yearlings by Wedds Expansion; twenty-four head are spring gilts by Wedd's Expansion, Wedd's Long King by Long King's Equal and Black Prince by Prince Ito. The two latter boars were purchased in the fall of 1911, Wedd's Long King costing $150 when seven months of age. He is undoubtedly the largest boar of his age in Kansas and is proving an outstanding sire. Practically all the sows bred to him were sold last year and as Wedd & Son wanted a few more of his gilts for this sale they tried to buy of those who had them, but could not get prices on any. He is also as heavy-boned a boar as one usually finds and, barring accidents, will make a larger boar than his sire or grandsire and has more quality. Twenty-four head are bred to him and they should be appreciated. Black Prince was bred by Mr. Robinson, who says his sire, Prince Ito, was the best boar he ever owned. He is a more compact boar, yet is one of the larger type and gets stock that pleases. Wedd's Expansion, a rare breeding boar by old Expansion, has been used on a number of the sows and those who have bought this line of breeding have been pleased.

Very few farmers realize the many uses to which one of the very commonest of household products can be put. We all know that Lewis' lye is best for making soap, softening water, conditioning hogs, spraying trees, vines and vegetables, destroying vermin, etc. There are probably over 100 different ways in which Lewis' lye not only can be used, but in which it is the best for the purpose. Among these dehorning cattle is very important, as it can be done with Lewis lye without trouble and with no danger to the calf. The best time to dehorn by this method is when the calf is about six weeks old and it can be done equally well by two different methods. First grease the root with a good solid grease. Wet the buttons and place on a small piece of lye about the size of a kernel of corn. The other method is to swab the buttons after being greased with a strong solution of lye and water, about one-half can to a pail of water.

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Apex Fence is easy to put up because it *fits* any kind of ground, rolling, hilly or level. Up and down it swings, whichever way Nature has molded the soil. And it does it without binding, buckling, or straining at the joints—without sagging, bagging or snapping. The stay wires clasp the line wires firmly—yet the line wires swing freely with the ground. No *other* fence has the patented swinging joint but that isn't the *only* reason why Apex Fence is better.

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An illustrated woman's magazine, and I want YOUR name on my subscription list. **The HOME INSTRUCTOR** is bright, entertaining, clean and instructive—just the sort of a paper you should have in your home. It has departments for every feature of the home life, and prints the choicest fiction every month. Every issue has pages devoted to the latest fashions, fully illustrated.

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

The National Eugenics Society was organized week before last at the National Western Stock Show held at Denver, by electing Mrs. Mary T. Watts, Audubon, Iowa, president; Mrs. Mary Elizabeth Bates, Denver, Colo., vice-president, and O. M. Plummer, Portland, Ore., secretary. The society is the direct outgrowth of the babies' health contests which have been held with marked success at the state fairs of Iowa, Missouri and Oregon for the past two years and which have aroused widespread interest and the science of breeding children with as much care as has long been exercised in the breeding of live stock.

In a personal letter Mrs. Watts, president of the new society, declares:

"I begin to feel as if I were the center of a whirlwind that bids fair to take me off my feet." This declaration was brought about by reason of the large number of babies' health contests which are planned for the future, included in the list of contests are the 1913 state fairs of Iowa, Missouri and Oregon, with every prospect of similar competitions at the state fairs of Ohio, Massachusetts and Michigan. Contests have already been held at the Milwaukee Household Exhibit; at the reunion of Neighborhood Clubs, at Fargo, N. D., and at a dozen or more county and district fairs and Chautauqua assemblies.

The underlying idea is for the awarding of prizes to babies who show the best physical development, rather than the most beauty. The good effects of the contests are shown by the fact that at the 1912 Iowa State Fair a farm mother won one of the best awards on a child entry which had been rejected at the 1911 state fair because of inferior physical development, the mother having spent the intervening year in rearing and feeding her child along the scientific lines outlined by the efficient women who are at the head of this eugenics movement.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Let nothing disturb thee,
Nothing affright thee;
All things are passing,
God never changeth.
—Santa Teresa's Book Mark.

Out of the shadows of night
The world rolls into light;
It is daybreak everywhere.
—The Bells of San Blas.

A firm faith is the best divinity; a good life is the best philosophy; a clear conscience is the best law; honesty is the best policy, and temperance the best physic.

Some people are always grumbling; if they had been born in the Garden of Eden they would have found much to complain of. Others are happy anywhere; they see beauties and blessings all around them.

Everything we endure patiently is a key to something beautiful we could never enter otherwise. By the toilsome road of study a scholar learns to get joy out of books and stones and trees. By the hard road of discipline a man learns to get joy out of everyday living.

If we all shaped our lives day by day upon the maxim, "Strive to make one heart happy," jealousy, revenge, hate, with their kindred evil associates, would be banished forever from the earth. Our minds would be so occupied in adding to the pleasures of others that there would be no room for discord.

MOTHER AND DAUGHTER.

The time to begin to win your daughter's confidence is when she is a wee little maid, a bundle of sweetness and naughtiness—a small being, all "mixed with angel instincts." She should learn that her mother is a just judge, but that she is no less a tender counselor.

Then when she grows to young womanhood she will not set aside lightly the opinion of the mother upon whom she has learned to depend. When she is advised to wait she will not rebel, for she will know that there is no unreasonableness in the judgments of one who has never decided wilfully against the daughter of her heart.

A HELP FOR EMERGENCIES.

If you have no emergency drawer, shelf or cabinet in your home, arrange to have one when you begin housecleaning this spring.

Accidents will not occur any oftener if you are prepared to meet them.

When looking over your supply of linen set aside old sheets, pillow cases and towels, tablecloths, napkins, handkerchiefs, etc. Cut off buttons and hems, boil the linen in strong borax water to sterilize it, and press it. Separate the large pieces of cotton or linen from the smaller pieces, making two or more piles. Have some perfectly clean bags (flour bags, etc.) and into these place your separated piles, tie them up and mark them plainly before laying them in the clean drawer.

Flannel or outing cloth pieces from underwear are invaluable prepared in the same careful way, to be used for compresses or hot fomentations.

You may like to place in the drawer some cheesecloth for mustard plasters and other things to meet your own special conditions, such as absorbent cotton, adhesive plaster, gauze, etc.

FOR THE COOK.

Potato Biscuit.—Wash and boil four medium-sized sweet potatoes and mash. Stir into a batter made of one pint of corn meal, one teacupful of buttermilk, two tablespoonfuls of melted lard, one level teaspoonful of salt and the same of soda sifted and beaten into the batter just before stirring in the potatoes. Mold and bake until a rich brown.

Yorkshire Sausage.—Put some good plump sausages, or slices of sausage meat, in a large dripping pan and pour over them a batter made as follows: Two cupfuls of flour, one teaspoonful of salt, three well-beaten eggs and two cupfuls of milk; mix well and pour over the sausage in the dripping pan and bake in a hot oven for thirty minutes.

Doughnuts.—Two cupfuls of mashed potatoes (hot), four tablespoonfuls of shortening, three cupfuls of sugar, four eggs, five teaspoonfuls of baking powder, three cupfuls of milk, salt, nutmeg and last, flour enough to stiffen. Make a cream of potatoes, shortening, sugar and eggs, then add milk, salt and nutmeg, flour sifted with baking powder, and cook in boiling lard, and they are fine.

Apple Meringue.—Slice any kind of stale cake; put the slices in a baking dish; pour a little milk over; pare and core four or five apples; cover the cake with the sliced apples; sprinkle cinnamon or a little grated nutmeg over and a half cupful of granulated

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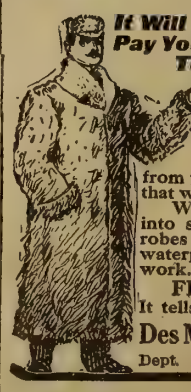

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Iowa Seed Co., Dept. D1 Des Moines, Iowa

sugar; put the dish in a quick oven and when the apples are tender make a meringue.

AMONG OURSELVES.

Really wonderful is this winter weather where I am now staying. I hope it is so with you; I hope that you are enjoying it. How the glorious moon has called to my mind that grand hymn of Addison:

Soon as the evening shades prevail,
The moon takes up the wondrous tale,
And nightly to the listening earth,
Repeats the story of her birth.

God loves the beautiful. He is the source of all beauty. How lavish to the eye, the touch, the smell, hath He strewn the beautiful things of nature, and there is another world of beauty in which we may dwell, a world where the sense of the mind, the heart, the soul, may be entranced with the beauties which He hath created. Are you more able than yesteryear to catch the golden glint of the unselfish consideration that has been shining in a neighbor's life? Can you better sense the courtesy and the gentleness that are gracing a well-ordered life on an adjoining farm? Can you better appreciate lovingness and sympathy and helpfulness—those gentle violets of character growing quietly in the silent places—and do you grasp to greater degree that faithfulness to

"Just as it Looked in the Book"

Have you ever experienced that moment of rapture, when having eagerly waited for the thing you wanted so much—you have it come to you just as thoroughly good and attractive as it had been represented?

Everything from Montgomery Ward & Co.'s Catalogue arrives "Just as it looked in the book."

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MONTGOMERY WARD & COMPANY DEPT. O-17

Chicago Kansas City Ft. Worth, Texas

Nothing will brighten up your floors more attractively than Sherwin-Williams Inside Floor Paint

It is easy to apply, for it comes ready-mixed in liquid form, and it is made in a wide range of handsome, serviceable colors. No finish is better for kitchen, bedroom or hall floors, where a painted surface is desired. It is a paint that dries hard over night, and possesses remarkable wearing qualities.

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will give you some valuable suggestions about the decoration of your home, both inside and out. It will be found just as interesting by the housewife who wants to brighten up a chair as by the farmer himself with the problem of house painting before him. You will be surprised at some of the effects made possible by the many Sherwin-Williams Finishes—and all at a low cost. We will be glad to send the portfolio free upon request.

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As long as you *do* raise hogs—see to it that they are always kept in *good health*. Hogs in good condition are not likely to become diseased—get worms or have cholera.

Lewis' Lye

Get the can with the Quaker label.

The Standard for Half a Century

is the best and by far the cheapest preventive and hog conditioner known and as *such* gives the greatest satisfaction. Lewis' Lye is—

Best for all General Purposes

for the simple reason that it is *all lye*, 98% pure. Its quality and full strength is fully guaranteed. It is the only lye made and sold by manufacturing chemists—the only lye you can afford to use for—

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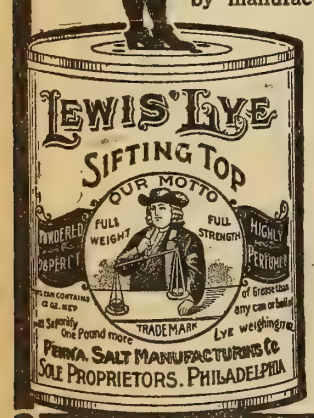
- Destroying Vermin
- or as a Hog Conditioner



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Prevents disease, destroys lice. It's indestructible—will last a life time. It's scientifically constructed to **Save All the Pigs.** Made of all galvanized, rust-proof, extra heavy metal with a patented door. Can't be broken or get out of order. You can roll Clarke's Hog House anywhere and open the top of it to let the sunshine in. **Write for prices.**

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the round of common duties that leads even to self-sacrifice? What is beauty is a question which wise folk have discussed pro and con for ages without coming to any very satisfactory answer, but there are some who have learned that the chief value of material beauty lies in the fact that it is the shadow and symbol of something inexpressibly greater.

Evidently one of our men friends has been looking out on the beauties around him and also for the other deeper-lying glories. Charles Smith, who lives amid the beauties of Wisconsin's varied lands and climate, sends us this:

The golden sun has sunk in the West,
Dark shadows o'er me creep;
All nature seems to be at rest
And lost in silent sleep.

Before I join the sleeping throng,
My Lord, I come to Thee;
Forgive me all that I've done wrong,
From sin my soul set free.

Thou, Who Thy precious blood didst shed
For all the human race,
Send angels bright to guard my bed,
In dreams reveal Thy face.

And should I die before I wake,
To answer death's grim toll,
I pray Thee, Lord, me not forsake,
Have mercy on my soul.

Sin! That which mars moral beauty and which arouses in us that queer feeling of repugnance that we get when we look upon some disgusting object. When Mr. Smith wrote these verses, I wonder how many attempts he made before he succeeded! There were attempts and there were failures. The failures were not pleasing, yet by being persisted in they led to success, to beauty. Our little everyday struggles, our past victories, our past failures what do they matter to us, to others? More possibly than we can tell, because the little details of our lives reach very intensely into the lives of others. A failure is more or less humiliating, but if one analyzes the causes of one's failures it may be possible to find that in at least some instances one has moral triumphs to one's credit.

And this brings me to place before you a letter in which Cousin Clara raises a question of the greatest importance. It is a question that has a universal basis with always a local or personal application. It involves moral as well as legal rights of the individual and of a large and highly important proportion of the population. Certain of us see the answer clearly, some of us not so clearly, and others not at all. We women have discussed this question "Among Ourselves," and in all sorts of ways and places. Cousin Clara is evidently stirred up by some special case of which she knows; hear her:

It is quite a number of years since I took part in the chats "Among Ourselves," but there is something I should like to ask and which I should like very much to hear discussed by the men. Is it fair and just to a farmer's wife, after saving to the very best of her ability and working as hard as her strength will permit—oftentimes greatly overtaxing her strength—to be compelled to ask her husband for every dollar she needs to spend for herself and family and the household in general? When she does gather up courage and ask, is it right for him to say, "How much do you want; what do you want it for; where is that $5 I gave you two months ago?" Is it anything less than a beggar's life? Would a man like to exchange places with her? When a farmer's wife takes all the care of the chickens—in the winter, too—aside from all the housework, keeps the table well supplied with eggs and chickens and takes all the surplus eggs to the store to be applied on the grocery bill; when she, I ask, sells chickens, who should have the money? Is it more than her right to feel that the money is hers, to be used for herself and family as she sees fit? Is a man who will put this chicken money into his pocket and refuse to give it to his wife, who has worked hard to raise them, and then keep himself well supplied with tobacco and cigars, a man in the sight of God? Please let us hear from the men, for we know what the women think.

We will wait as patiently as we may for the replies I am sure our men writers will send in. I feel like offering a prize for the articles that attack this subject from a business, a moral, a social, or an individual standpoint, showing how to reach an individual through his sense of fairness, honor, justice, and even better, selfishness, but I hardly think prizes are necessary. Perhaps we have a lawyer reader who will take this up from the basis of a contract between the parties.

There are connected with our paper a number of readers who are life subscribers. One of these and a good friend of the "Home Department" is R. A. Dague, with whom I hope to have you get better acquainted some of these days. You will like what he has to say about the value of pets:

I am thoroughly convinced that every child should have pets to care for, for a number of reasons. One is that it teaches him to be responsible for something. Another reason, is to love a dog, or cat, or any living thing exerts a good influence on the boy or girl. It develops and strengthens the tender feelings of the child's nature and helps to eliminate cruelty and selfishness. Pets will give them something to enjoy at home and they will be less inclined to go off with undesirable companions. It will help them to form habits of industry and method and strengthens the memory. A boy's love for his pets fills his mind with useful and good thoughts and he has less time for bad thoughts. While teaching his pet dog, or cat, or bird, or horse, he is himself learning patience and self-reliance and is exercising his intellectual faculties. Every father and mother should, if in their power, provide their children with living pets of some sort, if not a dog, or cat, or horse, then get them birds or chickens, or ducks, or lambs, or pigs, or something.

The above is said to parents especially, but it is meant for our young folks also. Get pets; be good to them, love them, and that will lead you to be good to and love your fellow beings. A religion of kindness is the best of all religions.

Of course, we'll all pet the baby and even cuddle him. No need to give any hints there—a word of warning indeed is perhaps needed. Let him sleep in a cold room and it will be good for him if you care for him as Mrs. Bellevue suggests:

I have never written anything for

You insure against fire—Why not against decay?

There is a small chance that your buildings will be burned, but there is an absolute certainty that they will decay if you neglect to keep them well protected by good paint.

Protection depends upon the character of the paint you use. Some paint permits moisture to go through to the wood, which starts decay and soon ruins the building. The paint that gives complete protection is

Lowe Brothers High Standard LIQUID·PAINT

It adheres tightly and sets in a tough, durable coat that resists moisture and wears for years. It is the one paint that years of outdoor tests have proved will insure greatest protection of your buildings.

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The Lowe Brothers Company
501 E. Third St., Dayton, Ohio
Boston New York Chicago Kansas City
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the Home Department before, but as I greatly enjoy reading it, I thought I would add my share. I have nine children, the youngest four months old, so will tell the mother who wishes to know how to dress her five-months-old baby for bed, who must sleep in a cold room, that if baby has flannelette night gowns of quite heavy flannelette it will need little else, especially if blankets are used. Woolen blankets are much warmer than cotton, but either is good. Wrap baby in a woolen shawl or piece of old bed blanket till bed is warm. It might be well to put a flannel hood on its head, as few babies have enough hair to keep their head warm. Never allow a baby to sweat if possible, as they catch cold easily when too warm; it also will weaken them.

There is many and many a one who knows the great value of a nightcap—not the kind you take, but the kind you wear. In Europe and in many parts of our country it is a sensible custom. But with all precautions taken it is necessary to be constantly watchful for changes of temperature.

Another addition to our home doctor's book comes from Aunt Agnes. It may happen that one of your own or a neighbor's child will be taken with convulsions and you may need to know how to proceed. Women are apt to be greatly frightened by the sight of a child in such a condition. Control yourself is the first thing to do, then proceed as Aunt Agnes tells:

Heat enough water at once and undress the child and immerse it in milk-warm water and gradually add more warm water. Wrap the head and neck in a towel wrung out of cold water. Rub the throat with a few drops of turpentine. In case of worms follow with a mild purgative and a few doses of worm medicine. The hot water will relax the muscles almost immediately. Rub the child thoroughly dry and to get a good circulation of blood wrap it in warm blankets and it will sleep a natural sleep, and this will be all the treatment needed. If necessary, repeat this treatment. This simple treatment has saved thousands of babies' and growing children's lives.

We will now hear from our cooks who have been patient while we talked in the parlor and visited in the nursery. They reply to calls for assistance from other housewives. Tomatoes, and lard, and dried fruit, and a pumpkin pie of an unusual kind are served by them. Remember your scrap books:

I am a young woman, the mother of a ten-months-old boy. He is a healthy little fellow, is thirty-three inches tall and weighs twenty-five pounds. He can creep everywhere and stands alone. My husband is a brakeman on the Pennsylvania railroad and, as he is away from home most of the time, I live with my parents on the farm and that is how I have the privilege of reading the Home Department. I have always lived on the farm and am interested in other farm ladies' talks.

I have been reading the home page and would like to be a member, that I might write as well as read. I love to help all I can in every way I can and enjoy reading the thoughts of other people and always glad to learn more about cooking and new and easier ways of performing the daily household tasks. I think it is real sisterly for women to exchange their "best" ideas. That way the good may grow, thus crowding out the evil. I was very thankful for the item about "Bulletin Evenings." I will send for a few of the bulletins, but have not quite decided which ones I really need the most. I will write a recipe for grape catsup. Select firm, well-ripened grapes (parts of spoiled grapes will cause the catsup to sour), wash and slice, allow them to boil rapidly for thirty minutes, then strain through a sieve, being careful to take out all the seeds, as they are bitter. To each quart of juice add one-half a pint of vinegar, one cupful of sugar, one medium-sized onion, one teaspoonful each of ground black pepper, red pepper, cinnamon, cloves, alspice, mace, ginger, salt and mixed spices, tie the spices, salt and pepper in a thin white cloth and drop the onion whole into the juice. Let this mixture boil until it is as thick as bought catsup, then bottle it, being careful to get the stoppers in tight, for if any air gets to the catsup it will be spoiled.

Mrs. Ellen.

As I have been a silent reader and admirer of the Home Department of this paper for so long, I will try to give my mite in return for so much benefit received. Will say to the sister who asked for remedy for spoiled lard in the issue of January 9th, I, too, was troubled the same way with my lard and found it was caused from covering lard while warm with tight lid, which created steam and same gathered on lid and dropped on the partly cooled lard, which makes brown streaks and a musty smell. If the sister who is troubled with worms in dried fruit will heat fruit hot in the oven as soon as it comes from the drying table and sprinkle lightly with salt she will have no more trouble. I would like to hear from the sisters who have school lunches to put up, as I have six every day. If this misses the waste basket I will come again.

I. M. D.

If the sister will put her fruit in the oven after it is dried and heat it as hot as she can bear her hand in it, then put it in a flour sack and drop it in a tin milk can with a good tight cover or a tin lard can with cover I think she will have no bother with worms. I always use an old milk can. I drop the sack in the can and as I dry the fruit I put it in the sack while still hot and twist the top of the sack tight. After the can is full I lay a thin cloth over the can and press lid on tight. Be sure that you put lid on tight each time that you take any fruit out and do not leave lid off only while you are getting fruit out.

Mrs. Topeka.

PUMPKIN PIES WITHOUT EGGS.

Two cupfuls of stewed pumpkin, one-half cupful of creamy milk, one-half cupful of sugar, one tablespoonful of corn meal. I really prefer the corn meal pie to one made with the usual egg in it.

A. Bocker.

Next week we will give our time and attention to the preparation of our strawberry beds for the coming season. It will be here before some of us are right ready! So we shall have the articles written for the strawberry contest and the winners will get their prizes in due order. Our Oklahoma and southern Missouri as well as Arkansas readers will perhaps think these are a little late, but our north latitude friends will wonder why we are so early. Then the letters may be just in the proper time for the man on the middle ground. Have you sent to Washington or to your state agricultural college for those bulletins I spoke of? If not, do so right now. It is not necessary to address any one by name. Ask for pamphlets on the subjects you are interested in. We ought to have good discussions on a number of these topics later on when we have thoroughly informed ourselves on our favorite topics. You are entitled to a fair share in the information acquired by these parts of our government, and it is the duty of each of us to get the latest and most reliable information to be had on any necessary subject.

Test Your Dairy Salt

The salt you use in butter-making should not be bitter. Test it thus:

Make a little salt brine from the salt you are using and taste it. If it leaves a bitter flavor in your mouth, change your brand.

Worcester Salt leaves no bitter taste.

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Our **Direct-from-maker-to-user** selling plan absolutely wipes out all the added "in-between" expense of a chain of useless middlemen and enables you to buy a KING as cheaply as the largest jobber could buy them by the train-load—if we sold them that way.

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The KING Sanitary Separator in all sizes costs you only one-half as much as agent's machines. Buying direct from our factory saves you all the expense of the agents, salesmen, stores, wagons, etc. To prove our claims we make the **most liberal offer ever heard of.**

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(15)

—and Why

Every farmer knows that a fence which will stay tight and trim through summer and winter must be built to give and take. It must be made of tough, springy wire, and in such a way that in contracting and expanding it will take up as much as it gives out.

There are several reasons why

"Square Deal" Fence

Stays Tight and Trim the Year 'Round

FIRST: Note that the strand wires are wavy. This gives the fence ***elasticity***—its give and take—***keeps it tight*** summer and winter.

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THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to
Aunt Mary, Hawley, Minnesota.

GEMS OF POETRY.

The world is full of a number of things;
I am sure we should all be as happy as kings.
—Selected by Gwen.

Earth has put on her coat of snow;
Children's faces are all aglow;
Snowflakes are dancing around, around,
Then sinking so softly upon the ground.
God made the winter for everyone,
So let us enjoy it, in shade or sun.
—Magnolia, age 16.

OUR FIRST SNOW.

It came flying down in flaky heaps,
Falling on housetops and in the streets;
Making everything pretty and white,
Hiding the stars that peep out at night.
Some were little and some were big;
Some came dancing a merry jig;
Some came down like honey bees;
Some fell on walnut and evergreen trees.

It fell on the fields and made them white,
And tried to hide the sun from sight;
But that came out in a little while
And gazed on the scene with a happy smile.

For what did it see on the white-clad ground
But a large snow man resembling a clown!
And children were hiding behind stone walls,
Waiting a chance to throw snowballs.

Then the sun went down, and fast came night,
When the stars' eyes laughed at the pretty sight;
And the moon came out with face aglow,
To celebrate our first snow.
—Marion, Okla., age 12.

Amethyst	Kansas Girl
A. M. G.	Magnolia
Beryl	Marion
Blue Rose	Maurice
Bonnie	Miss Hap
Candy Kid	Myrtle
Coca	Onabe
Country Maid	Parlor Maid
Cousin Grace	Peggy
E. E. B.	Peony
E. M. P.	Pink Rose
Fairy Love	Pretty Paul
Freak	Rosy Plum
Garda	Snowdrop
Grandma	Ted
Guinevere Maurine	Thora
Gwen	Tiddledy Winks
Happy Brown-eyed Maiden	Toots
	Tress
Hettie	Truda
H. I. M.	Ture
Iowa Chimes	Valeria
Iowa Maiden	Wilna
Jewel	Wisconsin Lad

These young people won their places here by sending Aunt Mary good, original letters, stories, verses and puzzles, written on but one side, and fully signed. (Name, age, address and pen name should be given.)

Those who miss the roll this week are as follows: Rosy Cheeks, memory gem; Housekeeper, age 8, and Red Rose, age 12, no addresses (these pen names are already taken, girls); Flo and Nancy, food recipes; Iowa Blush and Lucie Stalter, not of general interest.

TRY THIS, GIRLS.

Apple Sauce Cake.—One cupful of light brown sugar, one-half cupful of butter, one and one-third cupfuls of apple sauce, one and one-half teaspoonfuls of soda dissolved in the sauce, one cupful of chopped raisins, one-half cupful of chopped nuts, one teaspoonful of cinnamon, one teaspoonful of cloves, two and two-thirds cupfuls of flour. Baked in a loaf requires one hour, layers, forty minutes.—Flo.

ANSWERS TO LAST WEEK'S PUZZLES.

I. Squash, tomato, cabbage, peas, gourd, turnip, lettuce, spinach, potato, carrot, celery, beans, pie plant, egg plant, radish, watermelon, muskmelon, garlic, beet, cucumber, horseradish, pumpkin, leek, sweet potato, onion, parsnip, corn, popcorn, yams, peanuts, parsley, Brussels sprouts, kale, oyster plant.

II. Cold, only, land, oral, ripe, able, door, oval; Colorado.

III. Tokyo, Tripoli, Bogota, London, Reykjavik, Lima, Cetinje, Paramaribo, Brussels, Lisbon.

A LINCOLN STORY.

When Abraham Lincoln was a small boy going to school his hands were so dirty. Day after day passed and he didn't wash them, until one day his teacher told him if he didn't wash them in the morning she would punish him.

He never thought anything more about it until the next morning, as he was going to school he remembered what she had said. It was too late to go back home and wash them, so he spit on one of his hands.

When he got to school the teacher asked to see his hands. He held out the one he spit on because it was the cleaner.

The teacher looked at it a minute, and said, "Abraham, if you can find a dirtier hand in school I won't punish you." He held out the other one, and she didn't punish him!—Red Wing, age 12.

Better Than Gold.

Brother Bob was away at college. Father was poor and could just scrape money enough to pay for his education. On the fifth of February, father said that he would fall short three dollars in paying the last month's fuel bill. When the twelfth came we all knew better than to ask father for any money for valentines, as we knew he didn't have it.

Bessie was red-eyed all the time, nearly. She wanted to send a valentine to Bob the worst way. Of course, we all wanted to send him one, but we knew (at least we thought we did) that we couldn't. Bessie was the youngest, twelve years old, and seemed to take it the hardest.

The next day Bessie went down to the grocer's. She came back with a large piece of thick, red paper. I went up to her room with her. She took the scissors and cut out a large heart. Then she made some flour and water paste. She went out in the barn with the paste, heart and scissors. First she cut some hair from the neck of the cow, Spottie. She pasted that on one side of the heart. She did the same with the calf, the horse and the pig. Then she did the same to one of the old hens, the rabbits, the squirrel, and even pasted a piece of lettuce on. Then she wrote in the middle, "With love from Bessie."

When she showed it to me and told me about it, I wrote on the other side, "And the family." I carried in cabbages for Deacon Turner and earned ten cents, and used some of it to send the precious valentine. Bob said, "That valentine is better to me than gold."—Badger Boy.

Short Talks.

Gwen has twin calves named Austin and Texas.

We cannot spare space, Peony, for requests for correspondents.

Peggy is planning to raise tomatoes this summer, she likes them so well.

Ted likes to crochet and embroider. The girls take their fancy work to school.

At Garda's school they are going to decorate in red, white and blue for Washington's birthday.

Wilna reports that her pansy pin went through the wash by mistake, and came out unharmed.

Thora tells of the destruction of their schoolhouse by fire early in January. Fortunately no one was hurt.

E. E. B. likes to sew and cook, and thinks all girls should learn how, as it will surely be of use to them some day.

Iowa Maiden is a hero worshiper, but regrets she has never met a hero or heroine yet. She is hoping to become a nurse.

Country Maid says her teacher bought a doll for the school girls to dress. They voted on a name, and the name Evelyn Naomi was chosen.

Valeria wants to know whether cabbages will grow better in a patch or in rows. They will grow all right either way if they are cultivated and are not set too closely together.

Wilna sent a motto: "Never put off till tomorrow what you can do today." Pretty Poll contributes a quotation: "Truth is the foundation of all knowledge and the cement of all society."

Truda's father is not only generous, but fond of music, for he bought an organ for the girls, a good violin for her brother, and a smaller one for Truda. In return, the young folks help cheerfully with the work.

Some new riddles (to Aunt Mary) are these, sent by Happy Brown-eyed Maiden: Why is a sick Jew like a diamond? Because he is a Jew ill, (jewel). Why are weary people like auto wheels? Because they are tired. What is bookkeeping? Forgetting to return a borrowed volume.

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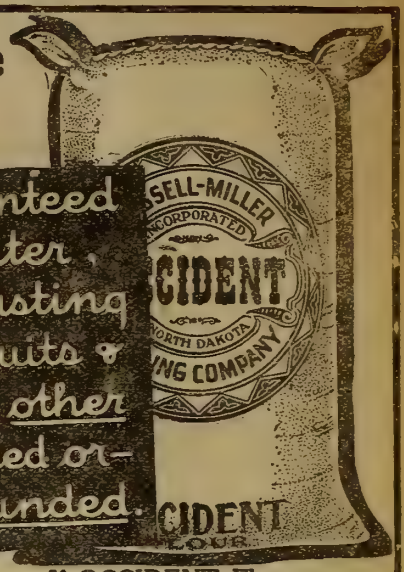

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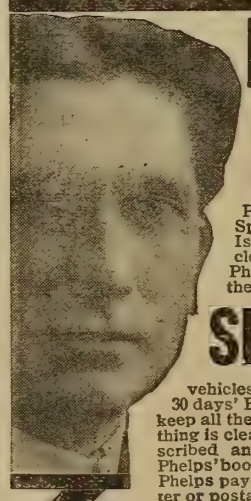

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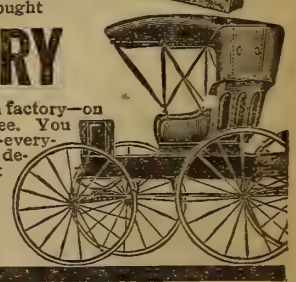

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SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER. LESSON VI. GEN. VIII. 1-9; 17 February 9, 1913

GOD'S COVENANT WITH NOAH.—THE STORY.

Noah's faith shines resplendent upon the rayless irreligion of his day. He showed his faith by his stupendous work. On dry land and far from sea he built his colossal ship. He preached righteousness to the gaping and gibing crowd which curiosity brought from afar to his shipyard. He was persistent. He kept right on building and preaching for 120 years. He built precisely according to the model shown him. He gathered in the supply of food for man and beast requisite for his long voyage. He selected and admitted the beasts and fowl as God directed. With seven souls he entered his strange prison, had its doors shut behind him by the Invisible Hand, and tarried in his weird environment undaunted, though seven days passed before the first raindrop pattered upon the roof. Sublime faith, that! The "log-book" of that unparalleled voyage is very brief. It takes only twenty-seven verses to narrate the novel and thrilling experience of 365 days. Much riches are in little room. Imagination must be trusted to uncover them. As Noah at length emerged from the ark, an inexpressibly sad and orphaned feeling must have affected his generous heart. Earth's desolation, how utter! In vain he listens for the sound of a human footfall. Not even a footprint is left. He finds relief in worship. He builds an altar on the dripping rocks of Ararat. Again his faith exemplifies itself. He had saved only a few specimens of clean animals; but he prepared to offer some of them, with assurance that God would supply their places and see that the species did not become extinct. When the fragrance of that whole burnt offering came up before the Lord, he knew that Noah intended it should signify the complete devotion of himself, his descendants, and the renewed earth, to God. As a pitying Father, God graciously responded to the suppliant patriarch, allaying his fears with the assurance that the cataclysm just passed should never be repeated; the beneficent regularity of the season should know no interruption; human life should have a safeguard. God delegates his judicial power to man to this end. The first principle of human government is here irradiated in the statute, "Whoso sheddeth man's blood, by man shall his blood be shed." The Noachian covenant was now ready for its seal. God took the very substance which had destroyed the earth, and transmuted it into a royal signet to attest his promise never again to whelm the race. There it stood in all the dazzling splendor of its prismatic colors—a arrowless bow, bent toward heaven, the very vastness of its sweep signifying the "wideness of God's mercy." To all generations the ineffable and assuring words which first fell upon Noah's ears have resounded, "This is the token of the covenant."

The Teacher's Lantern.

The rocks bear their incontrovertible testimony to the possibility and reality of such a flood as Genesis describes. Huxley in his Lay Sermon, dismissed. For example: (1) The No. IX, graphically describes such a cataclysm. M. Figuier affirms that the Asiatic Deluge occurred after the appearance of man. A vulgar infidelity has had its laugh at Noah and his ark; but he laughs best who laughs last. Corresponding to the testimony of the rocks is the testimony of tradition. Humboldt says that ancient traditions of the flood are dispersed over the whole surface of the globe like relics of a vast shipwreck. Most remarkable of these is probably the Chaldean account translated from a clay tablet 2,500 years old, by the curator of the British Museum. In it appears all the main facts connected with the deluge and the saving of Noah and his family, rainbow did not first appear after the flood. God took what was always a phenomenon of nature and gave it a new significance. (2) The dimensions of the ark were probably 547 feet by ninety-one feet two inches and forty-seven feet two inches. That a craft of such dimensions would float and be remarkably capacious has been demonstrated by actual experiment. (3) One hundred and twenty years' respite before the flood was not too long a period, when the length of antediluvian life is considered. Nine years would be the corresponding ratio in the life of today. (4) Though there was no opportunity to save the physical life after the door of the ark was shut, yet time for repentance and salvation remained. Multitudes that would otherwise have remained obdurate may have repented. So the black cloud has its silver lining. The spiritual analogy should be reserved to the last. Earth will never be destroyed again by water, but it will be consumed by fire. The wrath of God already burns upon it. There is no escape. But an ark is afloat, it is ample; it is accessible. It affords absolute security. That ark is the atonement. Jesus cries: "I am the Door!" Escape for thy life!

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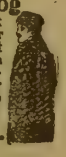

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CLOVER New Crop Iowa Grown Recleaned TESTED
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TIMOTHY Blue Grass, etc., at low prices.
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Big Ben

Use Big Ben All Day Long

Big Ben not only gets you up on time every morning, but he serves the whole family all day long as a reliable clock to tell the right time by.

He's really two good clocks in one—a crackerjack of a time-keeper—a crackerjack of an alarm.

He can ring you up in the morning just when you want, and either way you want—five straight minutes or every other half minute for all of ten minutes.

If you're a light sleeper, turn on the half minute taps before you go to bed. If you sleep heavily, set the five-minute call and you can slumber then without the get-up worry on your mind.

Then when you're up and doing, carry Big Ben downstairs into the living room so that the whole family can use him to tell the right time by. He stands seven inches tall and his great big open face can be seen distinctly across the largest room.

Big Ben is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves. He rings five minutes steadily or ten intermittently. If he is oiled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is $2.50 anywhere in the States, $3 anywhere in Canada. If you can't find him at your jeweler's, a money order mailed to *Westclox, La Salle, Illinois*, will send him anywhere you say, express charges prepaid.

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METHODS OF LEGUME INOCULATION.

The value of legumes as green manures or soil renovators is due to certain bacteria which develop nodules upon the roots of these plants and which have the power of rendering the free nitrogen of the air available for plant growth. Without these bacteria, legumes, like other crops, exhaust the soil of its combined nitrogen. In many regions certain types of these important bacteria are abundant in the soil; in other localities they must be imported, or, in other words, the leguminous crops to be grown there must be inoculated.

The inoculation of a new field may be secured either by the soil-transfer method or by use of pure cultures of the proper bacteria.

It is useless to attempt to benefit crops other than legumes by treatment with legume cultures. The only way by which a non-leguminous crop such as corn or cotton, can be benefited by the legume bacteria is either to grow an inoculated leguminous crop the previous year and turn under the stubble or even the entire crop as a green manurre, or to grow an inoculated leguminous crop between the rows of the crop which it is desired to benefit. No great increase in crop can be expected from the latter method.

Extensive experiments conducted by the bureau of plant industry of the department of agriculture, Washington, as well as experiments carried on by other investigators in this country and in Europe, have demonstrated conclusively that each species of legume may be inoculated more successfully by using the bacteria isola d from that species th a by using bacteria isolated from some other species. In other words, the red clover bacteria, which will produce a very successful inoculation when applied to a crop of red clover, will give little, if any, beneficial action when applied to cowpeas or soy beans, and vice versa.

The soil-transfer method consists in scattering over the new ground, at the rate of 200 or 300 pounds to the acre, soil either from a healthy old field of the same crop or from a new field of the same crop that shows abundance of nodules on the roots. To facilitate even scattering the inoculated soil should be thoroughly mixed with several times its weight of ordinary soil, and may be either drilled or broadcasted. If the soil is broadcasted it should be harrowed in immediately, and if possible this should be done toward evening or on a cloudy day, as bright sunshine is very harmful to the bacteria.

The method of inoculation by pure cultures depends to a certain extent upon the type of pure culture which may be used. Generally speaking, however, a bottle of pure culture of the proper kind of bacteria is opened shortly before the seed is to be planted and the culture mixed with the proper quantity of water and applied to the seed in such a way that all of the seed may be moistened, though not soaked. The seed should be planted as soon as practicable after this treatment; that is, as soon as it is sufficiently dry for convenient handling. Drying may be facilitated by adding dry, sifted earth, preferable from the field in which the leguminous crop is to be grown. It is undesirable to store inoculated seed, as the nodule bacteria often die out rapidly after the seed has been treated with the pure cultures and dried. Inoculated seed should never be dried in the sun. It is also possible to thoroughly mix the pure culture with a considerable quantity of soil, preferably from the field where the legume is to be sown. The treated soil can then be distributed in the same manner as when inoculating by the use of soil from an old field.

The advantages of the artificial cultures lie in the greater ease of their transportation and application as well as in the absence of the danger of introducing harmful weeds or plant diseases, although this method of inoculation, especially in the case of alfalfa, is less certain than the soil-transfer method previously described.

Attempts to secure inoculation either by the use of pure cultures or by the use of soil from old, well-inoculated fields will fail if the crop which is being experimented with is climatic conditions during the growing season are unfavorable.—[Dept. of Agr. Bulletin.

DIPHTHERITIC ROUP.

Mrs. E. M. Terwilliger, Leroy, Colo., is seriously alarmed about her poultry. She writes:

I am badly in need of help for my poultry. We built a new frame coop and sodded all sides. It is warm, but the earth is fresh and slightly damp. I have been putting in ashes to get a solid floor. Two south windows, one of them always left down five inches, as it is so warm in the coop. The flock is allowed to range in suitable weather and the coop is kept clean. I feed wheat, cooked and seasoned with salt and pepper. The trouble began with a cold, running at the nostrils, sneezing and throwing back their heads with a "squawk." Then there is a rattling in the throat, a cheesy matter is in evidence and some of them go blind. The other fowls pick at the affected fowls' eyes. Would that cause a normal eye to go blind?

No, it would not cause a normal eye to go blind, but the bird doing the picking would be the next afflicted. It was too bad to spoil what might have been a fine outcome by failure of the most important thing, fresh air, and a lot of it. Note this inquirer's diagnosis, it began with a cold and then developed into roup and now that is one of the worst infected flocks I have heard of yet. Diphtheria, or diphtheritic roup is a contagious germ disease and may be identified by the cheesy matter. If the throat is examined there will be found much redness and inflammation, with colored patches on the back part of the throat and palate. The spots increase rapidly in size and frequently run together. The membrane may grow rapidly, fill the mouth and throat to suffocation, or the poison may be carried into the air tubes, extend out into the bones and air sacks in various parts of the body and cause death by poisoning. To this latter fact is due many strange and mysterious deaths of fowls. In one part of her letter Mrs. Terwilliger asks: "Must I kill all afflicted birds? I hate to."

Of course, she hates to, and we poultry people who have been through every kind of poultry scrape imaginable know just how hard it is to kill off a flock of once promising fowls and see our anticipations go up into the air.

Those birds have been literally brought to their fate through mistaken kindness. If only that house had been made tight on three sides and the fourth wholly of canvas, or with large openings and canvas curtains to drop at night. After being kept in that soft, damp and warm atmosphere, it will be difficult to make necessary changes. The worst cases should be destroyed without delay and burned. As so many are affected, it would be better to remove the well birds, if there are any well ones, to dry quarters. The carbolic acid in drinking water is all right. Give to these chickens that are removed, Epsom salts, one teaspoonful to five fowls, fed in any soft feed, and an abundance of green feed. Do not scald the wheat, throw it in deep litter and let them get busy. Watch for any colds. If a snuffle is heard, dip the head in a solution of 50 per cent hydrogen, or kerosene will answer, to head off further trouble. I have recommended this treatment so often that it sounds monotonous, but I am not running on guesswork, neither theory, but actual experience, and have found this the best of all methods yet tried. All future hope is based on these chickens that are to be isolated from that stuffy, heated filthy condition, and it will require unremitting care to pull them through.

Now, about the diseased members and that house. In the end, extermination would be the better part. Then the house could be sprayed and disinfected, ready for future use. And always remember that it takes an awful lot of cold dry air to affect a normal chicken. Beware of drafts—a draft is when the wind comes in from one side, goes through the house and out at some other place. When a house is tight on three sides, this draft business is not possible.

Ask your neighbor to subscribe for The Homestead.

THE "FLOUR CITY" CAN ALWAYS BE DEPENDED UPON

KINNARD-HAINES CO., Peterson, Ia., Jan. 13, 1913.

I AM more than pleased with the "Flour City" 30 H. P. tractor. I pulled a 36-52 separator with self-feeder, wagon loader and swinging stacker; threshed 77,000 bushels of grain in all conditions and had power to spare.

I traveled about 50 miles and pulled by separator over hills of 20 per cent grade and could have pulled four tons more. It can't be beat for pulling, is always ready to go, and I have only paid 80 cents for repairs during the threshing season. This is a true statement of what I have done with the "Flour City." Am satisfied I have the best tractor on the market.

Yours truly, HENRY TIGGES.

The 1913 "FLOUR CITY" has some new features; send for catalog No. 19.

KINNARD-HAINES CO., 857 44TH AVE. NO., MINNEAPOLIS, MINN

FLOUR CITY TRACTORS

Know You're Right

Weigh your grain, stock and coal yourself and know positively you're getting a square deal.

The McDonald Pitless Scale

weighs accurately every day in the year. Protected bearings cannot freeze. No pit required—everything above ground. Steel frame—steel joists—10 year guarantee. U. S. Standard. Used for weighing U. S. Mails. Flying Dutchman Dealers sell them.

FREE BOOKLET. Write today.

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KITSELMAN FENCE

We make you the same price we would make the Dealer or Jobber. That is why we can save you money. Look at these very low prices.

14 CENTS A ROD for 26-in. hog fence.

23½c. a rod for 49-in. farm fence.

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$1.55 for 80 rod spool of Ideal Barbed Wire. Large free Catalog showing 100 styles of Farm, Poultry and Lawn Fence.

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STAHL SPRAYERS

We will ship you any Barrel Spraying Outfit in our catalog for a thorough Ten-Days' *FREE* Test.

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STRONGEST FENCE MADE

FROM FACTORY DIRECT TO FARM

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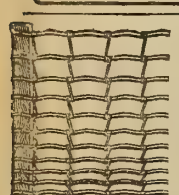
80-rod spool Barb Wire, $1.55

Many styles and heights. Our large Free Catalog contains fence information you should have.

COILED SPRING FENCE CO. Box 20 Winchester, Ind.



Heavy Close 49 in. Fence

24c Per Rod

Steel Farm Gates $2.95 and up. Galvanized Barb Wire, $1.55 per spool. Our large catalogue of fences for every purpose, gates, fence tools and supplies with low direct from factory prices sent free to any address.

THE MASON FENCE CO.

Box 53 Leesburg, Ohio

FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c. a rod for 47 inch high stock fence; 28 1-2c a rod for a 50-inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, $1.55. Catalog free.

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Don't buy your nursery stock until you see our free catalog. No agents, no commissions. Sample offers:

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Tells you how to plant
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Write today and get our 1913 catalog early.

WHITING NURSERY CO.,

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15 Years on The Market

GERMOZONE

GEO. H. LEE'S Great Poultry Remedy.

It tones the system, regulates the bowels, keeps chicks and fowls in fine condition. The best remedy for *Roup, Colds, Canker, Swelled Head, Cholera, Bowel Complaint, etc.* Actual figures show it reduces chick losses 90 per cent. Given in drinking water—no trouble. Price 50 cts. Lee's Egg Maker should be used by all poultrymen. Large protein, every ounce digestible. Brings eggs, makes chicks thrive. Lee's Lice Killer is sure death to vermin. Paint on roosts; it kills by fumes. Does not harm fowls. Lee's fine poultry books (3) free. Address

GEO. H. LEE CO., 1113 Harney St., Omaha, Neb.

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For those who have from 800 ft. to 1½ miles to go for their mail. Easily placed on telephone poles or 2 x 4's fastened to fence posts. The

OAKWOOD MAIL CARRIER

Made entirely of metal. Ball-bearing pulleys. Sold on thirty days' trial. Write for book "Getting the Mail."

Oakwood Mfg. Co. 65 Stanton Ave. Springfield, Ohio.

STRAND'S 1000 VARIETIES

HARDY NORTHERN

GROWN TREES AND PLANTS,

They grow and please. Priced at ONE-HALF what agents ask. Send for a copy of our free catalogue today.

STRAND'S NURSERY, Box 30 TAYLORS FALLS, MINN.

INVESTING IN STUMP PULLERS.

Returns Are Not Slow in Coming and Justify the Original Expenditure by Returning Many Acres to Cultivation.

IN THIS day of high-priced land the dividing line between profit and loss depends upon the conservation of small things and the cultivation of waste places. Success or failure may be contingent upon the grain produced on strips of land which have all too long lain idle. Nothing is more important than that the farmer should make every ounce of energy and every foot of space return the largest rewards, to the end that his prosperity may not only be continued, but may be enhanced. The loss to the farmer from the non-cultivation of the fertile soil adjacent to stumps ("loafer land" is the name which the agricultural department gives to it) and to the robber hedge can hardly be computed, but it mounts high there is no denying. Every experienced farmer knows that he loses from four to ten rows of corn next to the hedge fence. A crop of hay, a stand of wheat, oats and other small grain are equally short from ten to twenty feet on each side of the hedge. With land in the grain belt worth anywhere from $50 to $200 per acre the day has passed when any farmer, no matter how prosperous, can longer afford to waste these rows on both sides of the hedge. Because of this the campaign to remove from the earth not only the stumps, but the hedge roots and return the land to cultivation is gaining momentum rapidly, with the result that crop yields in many states are being rapidly increased.

ANOTHER ONE OF THE EARTH'S MOLARS REMOVED TO MAKE WAY FOR CULTIVATION.

Nothing could more convincingly show the value of this work of stump and hedge pulling than this testimony of a grain-belt farmer:

A large stump twenty inches in diameter will waste as much land as is required for raising an average of eight hills of corn. The eight hills of corn would average one-half bushel. By removing the stumps and planting an average of eight hills of corn wherever there was a stump I increased my yield ten bushels to the acre, which at fifty cents per bushel was equal to $5 an acre. Besides, I planted and cultivated the eight hills of corn in much less time and with less work than I could work around the stump. On the thirty acres of stumps that I went over and pulled out I saved more than the price of the machine the first year, and I also greatly increased the value of my land, and my boys and myself did the work in a couple of weeks. I consider the time and labor wasted in plowing, planting and cultivating a crop of corn, or any other kind of crop, around a lot of stumps in a field in one season amounts to more than the cost of a good steel machine. When I cleared my land of stumps my increase of corn the first year more than paid for the machine and I consider the labor wasted in cultivating was equal to the time taken to pull the stumps, and the land is worth $50 per acre more, and the increased yield and labor saved is clear profit to me.

Another farmer writes:

I had two fields of the same quality of soil, one having been cultivated with the stumps standing in the field and the other having had the stumps removed with a stump puller. I gave them both the same attention and care; the corn on the cleared land made ninety bushels to the acre and the corn on the old land made thirty-five bushels to the acre. You will note that the cleared land produced about fifty-five bushels to the acre more and at sixty cents per bushel made a profit of about $33 per acre, and the ground was in shape to use riding plows and cultivators and enabled me to do the work easily and quickly.

Another grain-belt farmer, speaking of the profit to be derived more from ridding the farm of the heavy hedge roots than the stumps, says:

Twelve years ago I chopped off the tops of my hedges and laid them on the roots and tried to burn them. These hedges divided my farm into thirty-acre lots and even though it is twelve years since I tried to chop them out the roots are still in the ground and I can't plow across the line where the hedge fence was. That taught me a lesson. Don't try to chop or burn the hedge, leaving the roots in the ground. They never rot. A stump puller takes out every one slick and clean and leaves the land ready to plow across the old line. The two boys and myself are pulling from thirty to forty rods a day. We pull it and burn it right up as we go, making a clean job.

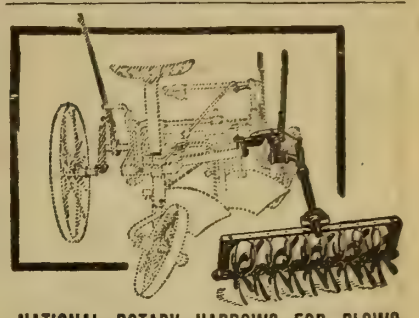
Such testimony is frequent and shows the wide extent of the use of the scientifically developed stump pullers of today and the large amount of land being returned to cultivation by their use. Farmers who do not have enough stumps of their own on their own farms to buy a puller are adopting the plan of going in with their neighbors and buying one together, thus lightening the cost on all. Then there are other farmers who are buying stump pullers and making a business of pulling stumps, doing the work by contract or by the day and thus making excellent money. One farmer contractor writes as follows regarding his experience:

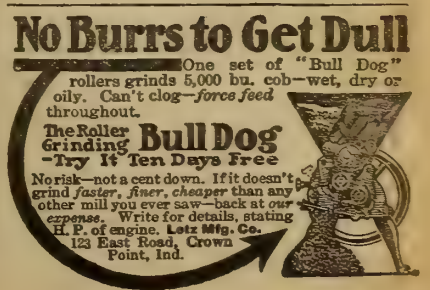
I borrowed the money to buy a stump puller. Have had all the work I could do all the time and have bought and paid for a little home as well as the machine, and this within two years. I next got a larger machine so I could handle all the work that came my way and I am having all the work I can do at a good price.

Such evidences of prosperity are eloquent of possibilities and go a long ways toward adding to the number of farmers who are proving their progressiveness by making the necessary investment in stump pullers and by their use adding to their acres in cultivation.

We should select the papers that we subscribe for as carefully as we select our friends. Our newspaper is as worthless as any other liar if it does not tell the news truthfully. The farm paper that is edited by a man who knows nothing of the hard knocks of actual farming will be a very poor friend to turn to when in need of advice.

A STRONG PULL AND THE ROBBER HEDGE IS GONE FOR GOOD, WITH A SAVING OF FROM FOUR TO TEN ROWS OF CORN.





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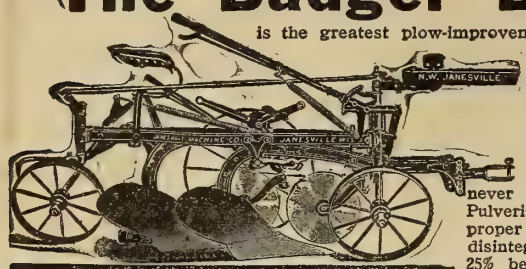
Manufacturers of Farm Implements

And Why It Has Won Six World's Plowing Championships

For six years Janesville Plows have been sweeping the boards in the farmers' own plowing matches at Wheatland and Big Rock, Ill. In 1912, Janesvilles won 16 out of 21 prizes, including Sweepstakes and title of World's Championship. Why does the Janesville win *so regularly?* Why don't *other* plows win? Why does the Janesville have a record of 93% and 95½% for *perfect plowing?* The answer is simple. It is because the Janesville is *built* right—the correct *principles*, the finest *materials* and perfect *workmanship*.

The Badger Bottom



is the greatest plow-improvement in over 50 years. It raises the land only high enough to turn over on its own corner. Handles the largest varieties of soil—from lightest to heaviest, from extreme dry to extreme wet. Scours clean, even in land where plow never could be used before. Pulverizes perfectly, allowing proper fermentation, aeration, disintegration. Lightens draft 25% because it runs steady, at even depth, no jerking.

Other Janesville Advantages

Let us send you the facts about the World's Championship winnings and reasons *why* Janesvilles win. Read about the Badger Bottom and other features—Foot Trip, Horse Lift, with complete control of horses—point first action—control of bottom in any position, adjustable foot lever, walking-plow action because of self-leveling device. Also mention if interested in Walking Plow, Riding or Walking Cultivators, Disc Cultivator, Disc Harrow or Corn Planter. All books free. Write *now*.

The Janesville Machine Co.
31 Center St., Janesville, Wis.

Now You Can Do Power Farming On Any Size Farm

Here is the **Baby Avery Tractor** that makes **Power Farming a paying proposition** now on small size farms. It pulls 3 to 4 plows and plows 10 to 12 acres a day. Weighs less than 7500 pounds. Develops 12 Traction 25 Belt H. P. Burns gasoline or kerosene. Sold at an unusually low price—only $1,200.00 F. O. B. Peoria.

For a medium size farm you can get a 20-35 H. P., pulls 5 to 6 plows, turns 15 to 18 acres a day, weighs less than 11,500 pounds and sells for $2,000—or a big farm size 40-80 H. P., pulls 8 to 10 plows, turns 25 to 30 acres a day, weighs only 20,000 pounds and sells for $2,650.00.

AVERY
"Light-Weight" Tractor and "Self-Lift" Plow

Free Book About Power Farming

Gives **definite facts** from the **experience of users** to prove that an Avery Power Plowing Outfit **plows for half or less** what it costs with horses. Tells all about the "Light-Weight" of Avery Tractors that makes them a success where the heavy weight tractors fall down. Explains why Avery Tractors are the **simplest tractors built**, which makes them easy to handle and keep in running order. Describes the wonderful Avery "Self-Lift" plow that **does away with the plowman,** saving all his wages and board besides the hard work of lifting hand lever plows. Also explains fully about the Avery Mutual Benefit Selling Plan of Low Prices, Sold on Approval Terms and Strong Guarantees.

Sold Under the Avery Mutual Benefit Selling Plan—Low Prices—Sold On Approval—

Strong Guarantees

Our selling plan is the fairest and most liberal ever offered on farm tractors and plows. You can buy an Avery Tractor and Plow Outfit at **a low price.** You can buy it **on approval.** Test it out right on your own farm. Don't keep it unless it **proves up right** and all we claim it to be. And after you have decided that it does all this, and have accepted it, we continue to back it up with **strong guarantees.** Of course we couldn't sell on such a plan unless we knew positively that Avery Tractors and Plows are absolutely reliable.

There's no reason why you can't be **saving money and hard work** by Power Farming with an Avery One-Man Outfit, **just like hundreds of others are already doing. Write** and learn all the **facts.**

Write at once for our new complete 1913 Avery Tractor and Plow Book with **Power Farming Facts** and full information about Avery Tractors and Plows and Avery Mutual Benefit Selling Plan. Address
AVERY COMPANY, 1261 Iowa Street, PEORIA, ILLINOIS
Also manufacturers of Avery Steam Traction Engines, "Yellow Fellow" Grain Threshers and Gasoline Farm Trucks

MODEL 1893

Marlin Big Game REPEATING RIFLES

The Special Smokeless Steel barrel, rifled deep on the Ballard system, creates perfect combustion, develops highest velocity and hurls the bullet with utmost accuracy and mightiest killing impact.

The mechanism is direct-acting, strong, simple and perfectly adjusted. It never clogs. The protecting wall of solid steel between your head and cartridge keeps rain, sleet, snow and all foreign matter from getting into the action. The side ejection throws shells away from line of sight and allows instant repeat shots always. New .33-caliber now ready.

Built in perfect proportion throughout, in many high power calibres, it is a quick handling, powerful, accurate gun for all big game.

Every hunter should know all the *Marlin* characteristics. Send for our *free* catalog. Enclose 3 stamps for postage.

The Marlin Firearms Co.
Willow Street New Haven, Conn.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Feb. 11, John Maasen, Avoca, Iowa.
Feb. 27, J. V. Arney, Leon, Iowa.
Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Feb. 18, A. J. Banks, Montour, Iowa.
Feb. 21, F. A. Schaeffer, Raleigh, Iowa (sale at Estherville, Iowa).
Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 1, D. R. Hanna, Chicago, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 20, A. A. Hager, Avoca, Iowa.
Mar. 21, R. P. Clark, Brayton, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.
Feb. 20, J. W. Storm, Seville, Ohio.
Feb. 21, Geo. Davis & Son, Milford, Neb.
Feb. 24, Madison Spencer, Audubon, Ia.
Feb. 24, Jess W. Andrews, West Point, Ind., sale at La Fayette, Ind.
Feb. 28, E. S. Mayes, Jr., Springfield, Ky.
Mar. 3, John Truax & Son, Sycamore, Ohio.
Mar. 4, F. J. Rupert, Spencerville, O.

Chester White Swine.

Feb. 19, G. H. Tutt, Marathon, Iowa.
Feb. 20, J. H. Stewart, Dickens, Iowa.
Feb. 27, John F. Holst, Jr., Denison, Ia.

Hampshire Swine.

Feb. 18, W. F. Davis, So. St. Joe, Mo.
Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

"Sale of Crow-Type" Polands.

W. J. Crow, Webb, Iowa, will sell a consignment of bred Poland China sows from his well-known herd at his farm on February 21, 1913. The farm is three and one-half miles northwest of Webb on the C. M. & St. P., Des Moines to Spencer, and a half mile north of the Gowrie-Sibley branch of the Rock Island. Mr. Crow has been a breeder of Poland Chinas for a good many years, this being his twenty-fourth year in the business. In that time he has certainly had abundant time and opportunity to study the matter of breedings hogs from every standpoint, the type which gives best returns under average farm conditions, matters of feeding and the practices of breeding necessary to secure a certain type and fix it. Much of the success of the herd is due to Mr. Crow's ability as a judge of the breeding merits of an animal. To prove this, look at the list of boars that he has used in his own herd: Just now he has Crow's Kind, a boar that weighed 700 pounds on the day he was seventeen months old and as big boned as boars ever get. He is now the chief herd boars of Mr. Crow's, as Big Surprise, one of the longest boars of the breed for his build, has quit service. While active, Big Surprise was one of the big ones, but not the tall sort with lots of daylight under him. He weighed 800 pounds at twenty-four months of age. There will be some by him in this sale and perhaps a few bred to him. Big Surprise, a litter sister, was one of the very biggest sows ever owned by John Miller. These two boars, Crow's Kind and Big Surprise, were preceded in service by Hadley Expansion; Up To Date, a boar that showed size and quality in a degree seldom if ever equaled, and then, missing one or two perhaps, going back to Crow's MModel, the boar which really got the herd headed right. Now his is a list of boars that have given the type ot Mr. Crow's hogs for a number

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of years. That htey have sired a practical hog and one that both breeders and farmers who are not breeders know is practical has been proven everywhere they go. As Mr. Crow says of some of his sales, "When a man who has never before owned a pure-bred sow will step into the ring and pay around $100 for a sow and then make good on the investment it certainly prompts a man to think he is breeding he right kind." Mr. Crow is a real breeder and his sale is of stock bred by him and raised on his place. It is managed with the idea that it ought to go ou and make money for its buyers. Many of the highest-priced sows and boars of recent sales in the Poland China world have been of stock bred here. Mr. Crow has bred boars that not only head good herds, but have made those herds prominent. This year he has sows and gilts as good as he ever had, they are all strong on their feet and with big bone, they are evenly made and the principal feature in their favor, as we see it, is the fac that there won't be a hog in the sale but that wil be in condition to go ahead insead of backwards on the farm to which it may be sent. Mr. Crow stands squarely behind his recommendations of sows. He wants to make good for you in making good for himself. Get his catalog and study the breeding of the offering. Crow's Kind is a sire of good stock and of prize-winning caliber himself. Straight Edge, one of the younger service boars, is one of the straightest-lined pigs we have seen. He gets his name from that character. He has as good bone and feet as any. The sows from which the gilts come produce ibg litters. Mr. Crow has certainly bred a ytpe of his own and it shows in this character. Last year there were on Mr. Crow's farm sixteen pure-bred **Poland China sows that in three years** farrowed an average of ten and one-half pigs per litter. You cannot go wrong buying here and you will be guaranteed satisfaction if you deal with him. Write for the catalog, mentioning The Homestead. Ray L. Gribben will attend the sale for The Homestead and any bids you send him will be given careful attention. Mr. Crow will see that you are satisfied on anything bought on a mail order. Address W. J. Crow, Webb, Ia.

Ruebel Bros. Sell February 20th.

Ruebel Bros., Marathon, Iowa, sell Poland China brood sows on Thursday, February 20th, in their comfortable pavilion at the farm, a mile east of Marathon. They follow the sales o f G. J. Bloemendaal and Peter Mouw at Alton and Orange City, Iowa, and W. J. Crow, Webb, Iowa, sells the day following the Ruebel Bros. sale, making a compact, easy circuit to attend an a banner bunch of hogs to select from. Ruebel Bros. have their usual aclass of stock to offer and among the fifty head to be sold are ty's Jumbo, is a 600-pound sow right now and raised a fall litter last season. She is a litter mate to Crow's Kind, heading W. J. Crow's herd at Webb, Ia. This heavy-boned sow is bred to Chief Again Price. Luella Longfellow 2d, a two year old by R.'s Longfellow, with a record of big litters regularly produced, raised a fall litter and goes in the sale at 500 pounds bred for March litter to Ruebel's A Wonder. Orange Girl by Orange Chief 3d, a two year old that has always niched well with Price's Giant, included fifteen yearling and two-year-old tried sows, twenty fall gilts and fifteen spring gilts. These sows are by ing, and boars that have made records as several different boars, all of good breed-producers. R.'s Longfellow, Big Orange, Big Surprise, Ruebel's A Wonder, Price's Giant and Chief Again Price are prominent among the sires. For service this season they have used Ruebel's A Wonder, the sire of the good boar, Gerstdale Wonder, in Mr. Bloemendaal's herd, and recently sold to an Ohio breeder; Price's Giant, a big-type hog, and Chief Again Price, the 1911 Nebraska champion, an 862-pound hog at twenty-three months of age. Of the sows Longfellow Lucy 9th by Miller's Longfellow, a two year old, is one of the choice attractions for breeders. She is bred to Ruebel's A Wonder for early March litter. Mollie Orange by Big Orange, dam Big Castle by Big Wilkes, a granddaughter of Beau- will be sold bred to him again. This mating produced the best boar Ruebel Bros. sold this past year. Three big, smooth yearlings, litter mates, Nos. 7, 8 and 9, are worth looking at for big-type sows with quality. They are bred for early litters and are of some of the good breeding of W. J. Crow's herd. Of the younger sows the really attractive feature is the evenness and size of the gilts by Chief Again Price. They are of a type not wonderfully large, but some will weigh 400 pounds. Of these special mention should made of Nos. 35, 36 and 37. The first two are litter mates, out of a dam by Miller's Chief Price, and will bring down 400 pounds on the scales. No. 35 is bred to Price's Giant for middle of March farrow and No. 36 to Ruebel's A Wonder for last of March farrow. No. 37 is by Chief Again Price and out of No. 1 in the catalog. She may be a little larger than the preced-

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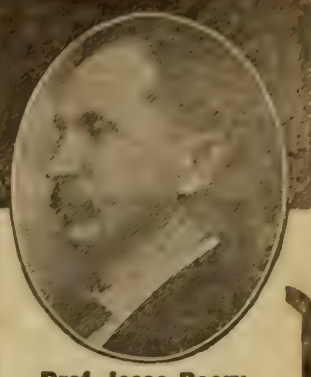

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Flexible where it *should* be —*in the frame!* The *only* disk that wears boxings evenly from end to end—spools are not cramped—there is no binding. That means *less* friction and *lighter draft*. The draft comes *only from the work being done.*

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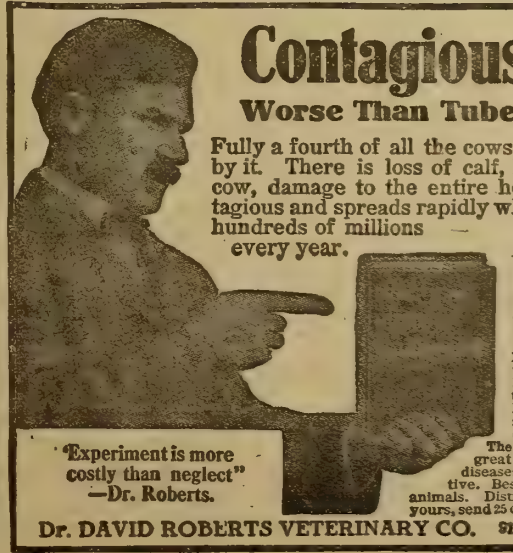

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NEXT WEEK'S SALE PROGRAM

Monday February 10	Poland Chinas, A. D. Jones, Dunlap, Iowa. Duroc Jerseys, R. Widle & Son, Genoa, Neb. Duroc Jerseys, R. M. Skillen, Greene, Iowa. Duroc Jerseys, J. W. Chapman, Woodburn, Ind.
Tuesday February 11	Poland Chinas, Gilbert Johnson, Osceola, Neb. Duroc Jerseys, W. P. Penry ,Radnor, Ohio. Duroc Jerseys, H. H. Shaw, Hebron, Neb. Poland Chinas, Henry Dorr & Son, Marcus, Iowa. Duroc Jerseys, Fred Nelson, Lindsay, Neb. Duroc Jerseys, Waltemeyer Bros., Melbourne, Iowa.
Wednesday February 12	Poland Chinas, Morris Fowler, Arcadia, Neb. Belgians, Morris Fowler, Arcadia, Neb. Herefords, Morris Fowler, Arcadia, Neb. Duroc Jerseys, A. W. Lamb, Albion, Neb. Poland Chinas, D. C. Lonergan, Florence, Neb. Duroc Jerseys, J. C. Theobold, Ohiowa, Neb. Duroc Jerseys, J. D. Isaac, Red Oak, Iowa. Short-horns, White & Smith, Chicago, Ill.
Thursday February 13	Poland Chinas, W. A. Lingford, Grand Island, Neb. Duroc Jerseys, A. R. Barnes, Petersburg, Neb. Poland Chinas, E. S. Barker, Doon, Iowa. Duroc Jerseys, H. H. & C. H. Koenig, De Witt, Neb. Poland Chinas, H. P. Kuhl, Florence, Neb. Chester Whites, F. W. La Doux, Spirit Lake, Iowa. Poland Chinas, L. B. Williams & Sons, Villisca, Iowa. Short-horns, Theo. Martin, Bellevue, Iowa. Poland Chinas, Theo, Martin, Bellevue, Iowa. Duroc Jerseys, R. L. Comer and A. D. & W. H. Van Meter, Pawnee, Ill.
Friday February 14	Poland Chinas, J. M. Peery, Alvord, Iowa. Short-horns, Chas. A. Slepicka, Tobias, Neb. Herefords, Mousel Bros., Grand Island, Neb. Duroc Jerseys, Wm. Harding & Sons, Brimfield, Ill.
Saturday February 15	Poland Chinas, Thos. F. Walker & Son, Fairbury, Neb. Herefords, Mousel Bros., Grand Island, Neb. Poland Chinas, C. W. Humerick, Atlantic, Iowa. Duroc Jerseys, Wirt A. Cottingham, Trivoli, Ill.

ing two and is in every other way their equal. She was bred to Price's Giant November 21st. This is an offering you will like if you see the sows and one from which you will be safe in buying. There isn't a really old sow in the sale —everything is just right for breeders' use. Write for the catalog and you can find just what great breeding there is here. Bids sent to Ray L. Gribben, of The Homestead, will be handled to your satisfaction, and he can get some good ones for you here. Address, mentioning The Homestead, Ruebel Bros., Marathon, Iowa

Slepicka's Short-horn Sale—Last Call.

We wish to again call attention to the sale of Short-horn cattle that will be made by Chas. A. Slepicka, Tobias, Neb., on February 13th. This is a particularly high-class lot of stuff, containing a choice lot of bulls of serviceable ages, as well as a nice lot of females. The cows of breeding age are bred to the great young bull, Diamond Digger by Diamond Goods, the 1912 champion. These are good property and the writer hopes to see a good attendance at this sale. The train service is good to and away from sale. Parties east and west may get off the main line Burlington trains at Fairmont and can take train from there to and from sale. Tobias is also on the Holdredge and Nebraska City line of the Burlington.

McCarty's Hereford Dispersion.

The old, established Hereford herd of T. E. McCarty, Princeville, Ill., will be dispersed at public sale at the stock yards in Peoria, Ill., Thursday, February 27th, the day following the McCray sale at Kentland, Ind. Mr. McCarty has been breeding Herefords for over twenty years, but is forced to make this dispersion sale owing to a change in his farming operations. There will be forty-six head in the offering, thirty-nine females and seven bulls, a vigorous, thrifty, breeding lot of cattle with the best of blood lines. Included in the bull offering are Mr. McCarty's two herd bulls, Bondsman, three years old, a son of the great Disturber, out of a Beau Brummel dam, and Perfection 2d, a grandson of the champion, Perfection, out of a dam by Perfection, givng him two crosses of the blood of this great sire

Tutt's Chester White Sale.

G. H. Tutt, Marathon, Iowa, will hold his fourth annual sale of bred Chester White sows on Wednesday, February 19, 1913, at his farm near Marathon. Mr. Tutt's offering last year was one of the best of the year and though he has not so many in this sale the class is as good as ever. Not many will get a better offering together and and farmers looking for good stock of this breed want to remember the date of the sale. His herd boars, Counsellor and Crusader, the sires of most of the offering, are both big boars that have a lot of bone and stretch. The young boar, Village Boy by the great boar heading Barr & Rae's herd, Chickasaw Choice, is promising a good maturity and we would feel safe in buying sows bred to him. Nos. 24 and 25 in the sale are extra good gilts of October, 1911, farrow and by the old boar, Major, both bred to Village Boy. They are smooth, big sows and are outstanding in quality. Get a catalog of this sale and plan on being there. You will find sows that you will like. Address, mentioning The Homestead, G. H. Tutt, Marathon, Iowa.

Davis & Son's Duroc Sale.

Probably the best offering of Duroc Jersey bred sows ever put up by Geo. Davis & Son, Milford, Neb., is the one that will be sold by them on February 21st. The writer recently called at this farm and we were of the opinion that the sale stuff was the best we ever saw here. They are all of splendid breeding, being sired by such boars as Valley King, G. D.'s Nebraska Col., Royal Critic, Brigg's Crimson, Watt's Model, Cleatham's Pride, Vanquisher, B. & C.'s Crimson and Silver Chief by Valley Chief. They are all bred to Beem's Lincoln Chief, Model Advancer and I Am A Crimson Wonder 5th. Beem's Lincoln Chief is a son of Lincoln Chief by Ohio Chief and out of Hazel Kirk by Proud Advance. He is sure one of the great boars of Nebraska today. I Am A Crimson Wonder 5th is by the famous sire, I Am A Crimson Wonder 2d, and out of a daughter of Ohio Chief Jr. by Ohio Chief. He is a litter mate to the great young boar, I Am A Crimson Wonder 4th, that was rated so highly by Mr. Beem. Try to get to this sale if possible, but if you cannot attend send a bid on some of the choice ones. Mention The Homestead when you write for catalog.

Nelson's Valley King Offering.

On Tuesday, February 11th, at Lindsay, Neb., Fred Nelson will sell forty head of Duroc Jersey bred sows and all but two will be bred to the noted grand champion boar, Valley King, and this should make his sale one of the most attractive held in the West this winter. He is also selling two good daughters of Valley King in the sale. This offering consists of twenty-five yearling and tried sows by the champion, Belle's Crimson Wonder; Red Chief Wonder; Crimson Jack; A. N. Kruger; Royal Critic, and King The Col., and fifteen fall sows and spring gilts, the fall sows all by Medoc Over by the champion, Medoc Jr., and the gilts a choice lot by Sensation Wonder, Belle's Wonder, Red Chief Wonder, Cleatham's Pride 2d and two by the great Valley King. Performance proves Valley King to be one of the most worthy Duroc Jersey boars ever produced and in the shows at Iowa and Nebraska, 1911, Valley King was first-prize aged boar and an outstanding grand champion in both shows. He is of that type, size, vigor and breed character that stamps a worthy sire and one valuable asset in any herd of Durocs is a litter by Valley King. Prize blood predominates throughout this sale offering and from the standpoint of Mr. Nelson's loyalty to the Duroc business and the exceptional attractiveness and real worth of the sows in this offering

FRED SCHAEFER & SON'S
SALE OF STRAIGHT SCOTCH SHORT-HORNS
AT ESTHERVILLE, IOWA, FRIDAY, FEB. 21st

60 HEAD of cows and heifers, with richest Scotch blood, a string of Duchess of Glosters of about a dozen Orange Blossoms, Butterflys and others of the same excellent character. Will sell Straight Goods an exceptionally good son of the Carter's Choice Goods one of the good breeding sons of the famous Choice Goods and out of Butterfly Rosemary, dam Imp. Rosemary. This bull has sired tops in other sales, and is a topper himself. Cows of breeding age all with calf or bred to this bull. Young bulls in the sale, all good ones and by this bull, are worth your investigation. The young stuff by Straight Goods is extra choice. Send for catalogs mentioning this paper. Sale to be held at Estherville, Iowa. Address

FRED SCHAEFER & SON - - - RALEIGH, IOWA

the sale should be liberally patronized. Make it a point to attend the Fred Nelson sale if you possibly can. Catalogs will be mailed upon application.

"The Pines Farm" Duroc Sow Sale.

We wish to again call attention to the sale of Percheron stallions and mares that will be made at the state fair grounds at Lincoln, Neb., on February 20th. The horses are practically all home bred and they are certainly a very fine lot of stuff. A few imported horses are included, which are also very choice. These horses are contributed by the following well-known breeders: Wm. Parr, Frank Davidson and L. Wall, Ruskin, Neb.; also J. C. Day & Son, Cadams, Neb., and Geo. Barber, Oak, Neb. These men are not dealers or speculators, but are breeders and are striving to produce good stuff. Nearly all of these horses were bred by them and are fair representatives of their different studs. These gentlemen have organized what they call the "Nuckolls County Horse Breeders' Association" and Percy Baird, Ruskin, Neb., is the secretary. For full information of this offering and catalog of same write Mr. Baird at once. Mention The Homestead when doing so. See advertisement

Walker & Son's Poland Sale—Last Call.

In previous issues of The Homestead the writer has described at some length the blood lines and many individuals that go in th Poland China sale to be made by Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb., on February 15th. At this time we wish to point out the advisability of buying sows in this sale as a business investment. The writer has purchased sows in the Walker & Son sales where they have made the purchasers 200 per cent net on the original investment and this sort of stuff is the kind to tie to. Walker & Son breed good hogs and they spend a large amount annually to keep them before the people. Hogs equally as good but not known would be worth a great deal less than these hogs that are already advertised. The best boars that money will buy or that years of painstaking effort will produce are used in this herd. You can start at the top by starting with this kind of stuff and if years of time are worth anything to you save them by starting right. If you cannot attend this sale send bids to J. C. Price, representing The Homestead, and the best possible sections will be made for you. If you can possibly arrange it, go to the sale.

Chas. F. Sprague's Cherry King-Jack's Friend Bred Sow Sale, February 18th.

The writer again feels at a loss how to express himself. So much has been said publicly and through the press of Chas. F. Sprague, Lima, Ohio, and his noted Duroc herd. We feel that after all that has been said, many readers of The Homestead have not realized the greatness of this herd nor have given due credit to Mr. Sprague and his great effort to improve the Duroc hog. Not being satisfied with adding a fine specimen here or there wherever they may be found, he felt that he could do the work of improvement better to buy a whole herd that had been bred along the best blood lines known to the breed for generation after generation. After looking over the field he decided if possible to buy the great herd of Ira Jackson and a little later we found him in possession of this great herd, the record of which Homestead readers are mostly posted. As year after year in The Homestead's careful reports of the big state fairs and expositions our readers almost always found in striking a total of the greatest winners of prizes in Duroc classes it was Ira Jackson. So not only had this herd been bred along the most improved lines, but the winnings showed the correctness of the matings for results. At this time the great boars, Cherry King, Jack's Friend and Tippy Col. were in service and the sow herd was rich in this blood, backed by Orion Chief blood throughout. Mr. Sprague bought this entire herd, boars and all, and moved them to Indianwold Farm, the beautiful country place owned by Mr. Sprague. The herd has done well for Mr. Sprague since transplanting it on his farm, and in getting off right Mr. Sprague has had such competent men in charge as J. E. Drake and Dan Grant. And now at this time Mr. Sprague and his assistants have selected a most valuable offering, the animals being bred to the noted boars mentioned above. These boars are siring prize winners and are assisted by Pal's Prince, champion of champions at Indiana State Fair for three years, he being a full brother to Colonade, grand champion at International, 1912. We advise Homestead readers who breed Durocs or readers who think of going into the pure-bred hog business to get in touch with Mr. Sprague. The catalogs are ready now and you can get one by writing Mr. Sprague, mentioning The Homestead. There is a solid week Duroc circuit in northern Ohio that you can attend at one cost. (See the advertisements in this issue.) If you find it impossible to attend bids sent to H. E. Browning will be handled on the square.

Last Notice for Henry Dorr & Sons' Poland China Sale.

Poland China breeders are all interested in the sale of bred sows to be held by Henry Dorr & Sons, Remsen, Iowa, at their farm near Marcus, Iowa, on Tuesday, February 11th. Real breeders, men who study the practice of mating in their most difficult aspects, and then have the patience to keep up the search for propor individuals or blood lines to secure the results they want, can be counted on one's fingers, and we believe that practically every Poland China man in the country concede Henry Dorr a place in this rank. His efforts certainly show in the sows he has entered for this year's sale. A test of the mastery of breeding is the degree of uniformity shown in the breeder's output. Every man who attends Dorr & Sons' sale after seeing the even lot of sows going through the ring that day will give him credit for being able to successfully pass that test. The fall gilts by Dorr's Expansion are a remarkably even lot and among them the first and third-prize fall gilts at the Interstate fair at Sioux City last fall. The first-prize sow is out of Evergreen Lady, one of the great old brood sows that has always produced high-class pigs. The second-prize gilt is out of Pawnee Lady 2d by Dorr's Tecumseh, and the third-prize gilt out of Evergreen Snow by Pawnee Lad 2d. The first and third-prize gilts are bred to D.'s Monarch, the first-prize pig at the Nebraska State Fair, and the second-prize gilt to the first-prize aged boar at Sioux City, Expander. There is prize mating for any one. We doubt if such attractions go in any sale. And the litter sister to the first-prize gilt, a sow at least as good as her sister, is also bred to D.'s Monarch. They are all bred for March litters. These ought to bring the best breeders from everywhere in Poland China circles. This entire sale is permeated with winning stock. The spring gilts are by Big Defender, a first-prize pig at Sioux City; some by the most popular grand champion of the year, Blue Valley Chief. Be sure to get the catalog and look it over as to breeding and then plan on being at the sale. If it is not possible to come, send bids to Ray L. Gribben, Homestead representative, who will give you careful and conscientious treatment. Address, mentioning The Homestead, Henry Dorr & Sons, Remsen, Iowa. Remember this is the postoffice address and the railroad point is Marcus. See advertisement

Fred Schaeffer's Short-horn Dispersion.

F. H. Schaeffer, Raleigh, Iowa, will sell some of his Scotch Short-horns at Estherville, Iowa, on Friday, February 21, 1913. Every animal listed in this sale is straight Scotch and among the cattle to be sold are the most prominent families of the strain. The cows are roomy, big breeding matrons; the young stock, as an indication of the producing qualities of the herd, show selection of the right sort of breeding individuals. At the head of this herd and, of course, bearing the responsibility for the young stock, is a grandson of that old show bull, Choice Goods, out of a Butterfly Rosemary dam, Imp. Rosemary. This bull is called Straight Goods and he was by Carter's Choice Goods, a sire that left a lot of high-class cattle from his breeding. Straight Goods was sold at M. P. Hancher's sale a couple of years ago for a good price, and since coming into this herd he has certainly made a great development. He weighs a ton right now, he is deep, broad and looking over his back from behind he shows an evenness rare in any bull. His color is a rich roan. He is quiet, has a first-class disposition and as a breeder he has a beautiful lot of calves to show his worth in this direction. The cows in the offering are suckling calves many of them and nearly all will either be heavy in calf or safe to the service of Straight Goods. There are about a dozen Duchess of Glosters in this sale and among their number are some of the good ones that men have been buying to improve their herds. Besides these, Lavenders, Orange Blossoms, Secrets, Butterflies, Mayflowers, Rosebuds and Victorias help make out the list. Among the cows Roan Buttercup 2d, out of Imp. Strawn Buttercup 24th, safe in calf to Straight Goods and a good calf in the sale by the same sire merits special mention for breeders looking for top cows Lady Belle 7th is a good cow and has as her best recommendation a young red bull calf that already shows character and style which mark only the very best and most prepotent sires. This calf is worth a lot of competition on the part of good breeders. There are a pair of two-year-old bulls, one by Royal Crown, dam Village Beauty, and another by Choice of Archers, out of Rosebud 7th, both of good size and growthy. We predict here a place to buy some extra good bred cows at prices that will make people who buy good money within the next few years. The cattle have the breeding back of them, the cattle business has a great future before it, and now is a good time to get started right in his line. The catalogs of the sale are ready. Write for them, mentioning The Homestead, and addressing F. A. Schaeffer, Raleigh, Ia.

Johnson's Poland China Sale—Last Call.

One of the good stockmen of central Nebraska is Gilbert Johnson, Osceola, and one of the good Poland China herds of the same section is owned by him. His annual brood sow sale will be made on February 11th and we would like to see a good attendance at this sale. The hogs are really good, many of them extra good, and they are of excellent blood lines. An extra choice lot of yearling and two-year-old sows will be offered and they are every one good. Mr. Johnson is selling several of these sows that he had intended keeping, but, owing to the fact that a number of the gilts did not breed soon enough he was obliged to fill out the number with these extra good sows. They are mostly the get of J.'s Jumbo by Wade's Jumbo and they are mostly bred to Hather's Hadley 2d, the sire of the International champion, Hadley Over. This is the sort of stuff to buy for results and those unable to attend the sale will be especially well taken care of if they will send bids to Thos. A. Shattuck, Hastings, Neb., who will represent The Homestead at this sale. Mr. Shattuck is a well-known Poland China breeder and a judge of the very highest type. Send all bids to him, in care of Gilbert Johnson, Osceola, Neb.

Fred White's Holstein Sale.

Frank White, Hampton, Iowa, is holding a Holstein sale on February 19th and 20th. About 125 head will be sold and among them some of the best bred animals to be found anywhere. Mr. White's herd bulls are Groveland Inka Hijlaard, a sister to Groveland Pontiac Hijlaard, the pair having won twenty-seven first prizes during the past three years as the produce of cow, and they have never been defeated in this class. There will be some sired by and some bred to this grand bull. Another herd bull is Cornucopia Pontiac Johanna Lad, a full brother to K. P. Manor Kate, the world's champion senior two-year-old heifer that has the record for butter for seven days, thirty days and one year, her yearly record being 1,023 pounds. There will be a number of heifers sired by and a number of cows bred to this great bull. Mr. White's herd has won more prizes in the last three years than any other herd of its size in the United States. There will be consignments from two other great show herds that are producing herds as well. This sale will afford the Holstein breeders of Iowa and adjoining states an excellent opportunity to get some of the very best animals of the breed at their own prices. The constantly increasing demand for dairy products makes the future outlook for the breeders of dairy cattle very bright and now would be an opportune time to get some good foundation stock, as the price of pure-bred Holsteins is constantly advancing and they are bound to prove a profitable investment. See the advertisement

S. J. Miller and Dr. Herr's Duroc Sow Sale.

On February 19, 1913, the above gentlemen will hold their bred sow sale at Fairview Stock Farm near Lima, Ohio. Every Duroc man knows or knows of Dr. Herr, for he has been pushing forward a class of Duroc hogs that has made him justly famous. Mr. Miller is some hog man, too, and he and the doctor make a real high-class double team. The offering this year is up to the doctor's usual high standard, both in breeding, size and quality. They have to be all this or they don't pass muster with Miller and Herr. They are sired by Defender, Volunteer, Superba, Cherry King, Highland King, Jack's Friend, Crimson Col., Defender King, King of Cols., Fancy Col., King's Col., Prince Wonder, Orion Chief, Helen's Chief, The Professor, Nugget, Premier Col., Prince Wonder, Pal's Prince, King Pal's Last and others. There are many of them bred to Helen's Chief, the boar that has put more prize winners in the state fair shows than any living son of Ohio Chief. Others are bred to King's Col., Volunteer, Superba, Col.'s Pilot Wonder, Crimson Col., B. & C.'s Col., Highland King and Defender King. They will sell a few choice spring and fall boars sired by Defender, Highland King, Superba, Crimson Col. and Royal Instructor. All in all we believe it the greatest offering Doctor Herr has ever made, but why shouldn't it be, with a man like Mr. Miller to help. This sale is one of the week's circuit of northern Ohio. Free entertainment will be furnished at the Empire Hotel. Fairview Farm is near Cairo on C., H. & P. R. R. and traction

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Free conveyance to farm. H. E. Browning will represent The Homestead and bids by mail or wire should be sent him, in our care. Colonels Igleheart, Reppert and Irwin, auctioneers. For catalog look up the advertisement of this issue and address either S. J Miller, Lima, Ohio, Route 8, or Dr. A. H. Herr, Elida, Ohio.

Halford's Great Offering.

On February 21st, R. W. Halford, Manning, Iowa, will make his annual public sale of fifty head of his noted large-type Poland China brood sows, and if he ever sold a good lot in his life they will be in this sale. Not since Mr. Halford got in the business has he sold such an offering as he has listed for this sale. The greater portion of the sows cataloged will be bred to his 1,000-pound boar, Mabel's Wonder, the first-prize aged boar at the Iowa State Fair last fall. Mabel's Wonder is one of the greatest sons of Smooth Wonder 2d, and he is one of the first of all the 1,000-pound boars to win first place at the Iowa State Fair. As one of the foremost today in the state of Iowa he is regarded right up among the very first. Thirty of the very best sows that he is selling in this sale will be bred to Mabel's Wonder and this certainly should be attraction for those breeders who want to get into the king row. Among these will be daughters of the noted show and breeding boar, Chief Price Again, Smooth Wonder 2d, A Wonder, Tecumseh Longfellow, Hancher's Long Wonder, Orange Boy, Big Chief, Jumbo Prospect, Gold Dust Hadley and the great Mabel's Wonder. Those sows not bred to Mabel's Wonder will be bred to the 920-pound boar, Long Jumbo, one of the largest two year olds in the state; Long Price, a son of Chief Price Again, and Perfect Wonder, a son of Fesenmeyer's A Wonder. We have personally inspected the Halford offering and know whereof we speak when we say that it is one of the outstanding big-type offerings of the winter season. It is by far the best lot of sows in the best condition that Mr. Halford has ever sold since he has been in the business. Write for his catalog and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, will be looked after on day of sale.

Banks' Short-horn and Poland China Sale.

A. J. Banks, Montour, Iowa, will hold a sale of Short-horn cattle and Poland China hogs at his farm on February 18th. He wil sell about fifteen good Short-horn cows and bulls and about twenty sows and gilts. There will be five bulls, three of which are Scotch. The Scotch bulls are all sired by Prince Consort and of the Louisa family. Prince Consort is by Ury's Bes and down through the pedigree you find Steadfast, Pro Consul and Sjartan Hero. He comes from the Scotch Lady Susan family. Prince Consort as a calf was a wonderfully thick, soggy, low-down fellow and he has made good as a sire. Two of the calves are extra good. There will be one cow by Golden King and out of Imp. Daybreak 4th. The twenty sows are a good lot, but we want to call attention to a great litter of five gilt sand a boar that will sell sired by Colossal and out of Anna Price. This litter will average around 350 pounds and have the bone and smoothness with their size. These are the kind that suit the best breeders. There are also some good gilts by the noted Big Orange. The sows ar bred to one of the best yearlings in the state, Woodrow Wilson, a grandson of Mastodon Chief and out of a dam by Fisher's Bell Metal. Mr. Banks has one of the best lot of fall pigs that can be found anywhere. They are worth going to see and he also has a number of individual cement hog houses that are very practical. Pay him a visit on sale day. Write him for a catalog, mentioning The Homestead

Lonergan's Last Call.

On February 12th, at Florence, Neb., D. C. Lonergan will again come before the public with another grand good offering of sixty head of big-type Poland China brood sows, and those who have attended his sales before will realize that here will be one of the great offerings of the winter season. The greatest part of this offering is either sired by or bred to the champion, Big Victor, a boar that needs no introduction, as he is known throughout the corn belt for the siring of great and growthy quality stuff. There will be twenty head of spring gilts and twenty head of fall yearlings. They are sired by Big Victor, Guy Price 2d, Big Tom, I Am Big Top (the sire of Futurity Jack), King Giant, L.'s Quality, Big Tom and Guy Price Last—not a better lot to select from was ever put up. They will be bred to Big Victor, Guy Price Last, Big Bob by Big Victor and out of the dam of Champion Colossus, Big Tom and L.'s Quality. Big May, the dam of Futurity Jack, the sensational boar pig of last year, winning first in both the open and futurity shows, is to be sold in this sale bred to Big Victor. Here is an opportunity to buy one of the grandest big quality sows to be sold this winter. Others that mention should be made of are Victor's Goods and Sensation, both by Big Victor and bred to L.'s Quality; Lakeside Belle by Lakeside Wonder, from the Polly herd, and bred to Big Victor. Also the first and second-prize senior yearling sows bred to Guy Price Last and Big Tom. Now, just a word about how they are fed and kept. Mr. Lonergan forces every sow and pig to travel at least a quarter of a mile a day and return if the weather is possible. They are fed but little corn and are fed largely on oats, shorts and alfalfa hay. We have personally inspected the Lonergan offering and know whereof we speak when we tell you it is one of the great offerings of the winter season. M. T. White will represent The Homestead at the Lonergan sale and will care for any bids sent him in Mr. Lonergan's care.

Widle & Son's Great Duroc Sale.

On Monday, February 10th, at Genoa, Neb., R. Widle & Son will make their annual Duroc Jersey brood sow sale and they are selling a great lot of sows. The Widle & Son sale is an important one, because there will be thirty-five head in the sale bred their noted boar, Critic B., champion and grand champion boar at the Nebraska and Kansas State Fairs in 1912. In their caalog they have the following to say of their great boar: "We first saw Critic when we got to Lincoln las fall and it was a case of 'love at first sight.' After learning how much money it took to buy him we stopped long enough to examine him and his pedigree, also two of his gilts, which were beside him, then write a check for the amount and drove him to our pens. When the news spread tha we had landed a new hog many of the leading breeders visited his pen and all said they believed he would be the champion of the show. When we drove him out the next morning he was placed first in class, and when we drove him out on Wednesday to compete for grand championship Judge Bernett said, 'That hog makes a man smile,' and after looking the class over made him the grand champion of the show. Judge Lovejoy, after he got through judging the Poland Chinas, looked him up and turning to some breeders, said: 'I have judged hogs since the eighties and I have never seen a better one.' Judge Folk, when he made him grand champion of the Kansas State Fair, said he was in a class by himself." Widle & Son showed twelve head at the Nebraska and Kansas State Fairs last fall and won thirty-three ribbons, consisting of two reserve champions, two junior champions and senior champions, twelve first premiums, five second premiums, four third premiums, one fourth and two fifth premiums. This should be sufficient to show just what **kind of an offering they wil sell in this** sale. M. T. White will represent The Homestead at the sale and will care for any bids sent in his care.

Peery's Last Call.

Following the sale of E. S. Barker, at Doon, Iowa, on February 13th, J. M. Peery, Alvord, Iowa, will sell a splendid draft from his Utility herd at his farm on Friday, February 14th. This sale is held by a man who can grow hogs to the very best that is in them. He is a natural stockman and gives the greater share of his time and attention to the business. He ought to have a chance to entertain the biggest crowd of buyers ever this year, for his hogs and his work in building up the breed merit such a crowd. Mr. Peery has the breeding in his herd that is equal to any and will have some of the best sort of sows to sell to breeders and farmers. He never tries to make a show record, but we believe his herd could make a good try at such a record if he set out to try it. He has at the head of the herd ange, dam by Beauty's Jumbo. This Peery's Long Orange, sired by Big Ormakes him as strongly bred for size as any boar that is in this circuit. There are none that have any more breeding for size back of him. He is a full brother to Big Black Jumbo, owned by Mr. Bloemendaal, and produces the same good sort of gilts. Jessie's Chief is a yearling boar that just now looks mighty good. We believe he is fully as

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100 of that choice new variety Senator Dunlap and 100 of two other choice varieties, and printed instructions with each order on how to grow them.

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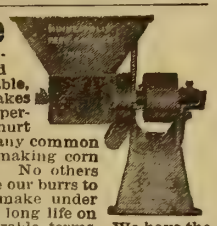

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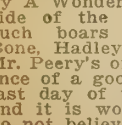

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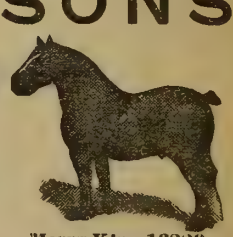

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20 Females Bred to Ringmaster, or with calves at foot by him, including representatives of Duchess of Gloster, Lavender, Broadhook, Venus, Clara, Mayflower, Butterfly, Violet, May Blossom, Miss Ramsden and other popular Scotch tribes.

9 Bulls, 4 by Ringmaster included, among them being some extra strong herd-heading material.

20 Two-year-old Heifers, including several daughters of Ringmaster, forming one of the strongest lots of young Scotch-bred cows ever offered at public sale.

We have selected the tops of our herd for this sale, and we will appreciate your attendance, as we know you will be pleased with the offering. Write today for the catalog, mentioning The Homestead, to

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ALL blocky Blood Reds, 10 to 14 months old. Address J. E. BARR, R. F. D. 4, Davenport, Iowa, successor to I. Barr & Son.

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YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
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BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah. Newton, Iowa.

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50 HEAD—25 bulls, 25 cows and heifers.
Send for my catalog. Address
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12 BULLS from 8 to 16 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals.
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P. W. REECE, R. 3, ELLMORE, MINN.

Ten Head of Recorded Hereford Heifers for Sale
Call on or address B. W. GREGORY, Harlan, Ia.

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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129733, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 2d58. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

I AM OFFERING for sale at private treaty 14 Angus bulls from 8 to 16 month of age. Nearly all of them are sired by Blackbird Jack 129823, one of the good sons of Black Woodlawn, and all of them bulls of quality and breeding. There are 3 Blackbirdas, 2 Trojan Erics, 3 Queen Mothers and 1 Pride in the lot. A.G. Messer, Grundy Center, Ia.

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TO close out have for sale 8 cows, 2 two-year-old heifers, 7 calves. Also herd bull, Benton N. 154892, 3 year old, was champion as a yearling at the N. Iowa fair. Address, mentioning The Homestead, J. Nissen, Meservey, Cerro Gordo county, Iowa.

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M'CRAY'S FIFTH ANNUAL PUBLIC SALE

KENTLAND, IND., WEDNESDAY, FEB. 26,

76 HEAD. 25 BULLS, 15 SONS AND GRANDSONS OF PERFECTION FAIRFAX.

FOR THIS sale 76 head have been selected, by all odds the most desirable lot ever offered from this herd. There are 25 show and breeding bulls listed, including seven sons and eight grandsons of the champion, Perfection Fairfax, the greatest Hereford sire this country has ever produced. Fifty-one show and breeding females are in the offering, including a number of daughters of Perfection Fairfax. All females of breeding age not sired by Perfection Fairfax are bred to him or one of his sons, so that no matter what you buy in this sale you are sure to get some of the Perfection Fairfax blood. The offering is particularly strong in bulls, every one of the 25 head listed being good enough for herd service, while there are several outstanding show propositions that are little short of sensational. Several members of our 1912 winning show herd, both male and female, are included in this sale. You will have a chance to attend both a cattle show and a cattle sale at Kentland, February 26th, and the public is invited to this sale with the positive assurance they will have an opportunity to pass upon the strongest lot of high-class breeding Herefords ever offered by a breeder in a draft sale, and with a very few exceptions they were all bred at Orchard Lake Farm. The handsomely illustrated catalog tells the story. It will be sent only upon application. Mention The Homestead and address

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COLS. REPPERT, HUXLEY AND IGLEHEART, AUCTS.

WARREN T. M'CRAY, KENTLAND, IND.

J. W. Pfander & Sons'

GIANT POLAND CHINA SOWS

—45 HEAD 45—

CLARINDA, IOWA, WEDNESDAY, FEB. 26

2 AGED SOWS 3 YEARLINGS 18 FALL SOWS 22 BIG GILTS

INCLUDED will be **Lady Jumbo 3d**, a litter sister to the Long King sow that topped our sale at $275, bred to the great **A Wonder**. Three of our best sows bred to **A Wonder**. Three yearling sows, one a daughter of **A Wonder**; 18 fall yearlings, eight of which are sired by **Long King**. Spring gilts sired by **Big Jumbo 2d, Mammoth King, Big Ben** and King of Wonders. The largest sows in the West go into the sale. If you want the big ones come to our sale. Catalog ready. Write for it and mention The Homestead and address

J. W. PFANDER & SONS, CLARINDA, IOWA

Col. H. S. Duncan, Auct. M. T. White, field man for The Homestead

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STEWART'S SALE OF BRED CHESTER WHITES

ON February 20th I will sell 45 head of the best tried sows, fall yearlings and spring gilts that I have ever offered and this is my sixth annual sale. If you want the large, smooth, deep-bodied type that never fail to make good attend this sale. They will be bred for early farrow to such boars as Crescent 21433 and Iowa Boy 22999, two fine yearlings. I want you to see them sale day. Catalogs ready. Send bids to W. R. Ritchie, auctioneer, in my care.

J. H. STEWART, DICKENS, CLAY COUNTY, IOWA

A. T. Jepson's Sale of

POLAND CHINA BRED SOWS

Moorhead, Iowa, February 15, 1913

40 HEAD. 10 Tried Sows, 10 Fall Sows, 20 Gilts **40**

MY herd boars are **Polly's Chief Price** by Miller's Chief Price, **Combination Chief** by **Big Combination, Giant King** by King Giant. I am selling daughters of Pawnee Chief, Big Wonder, Big Jumbo, Big Hadley 3d, Big Hadley's Model, Pioneer Chief and other well-known sires. If you want to buy good bargains come to my sale. Catalog now ready. Address

A. T. JEPSON, MOORHEAD, IOWA

J. A. Benson, auct. C. C. Polly, field man Homestead.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

Lock Stitch Sewing Awl FOR YOU

This Awl

is a wonderful tool and a household necessity, Diamond ground needles and complete supplies including thread, come with every outfit. Can be carried in pocket. This awl will save you many a trip to the shoemaker and harness shop. Given free with a two-year subscription to People's Popular Monthly Great Home Magazine, for only 60 cents.

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Dept. 2, Des Moines, Iowa

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1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 5th 1912 importation arrived Oct. 29th. Mention Homestead when writing.

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GALBRAITH'S CLYDESDALES

are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action. size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, DE KALB, ILLINOIS

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of **PERCHERON** stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars.

FAIRVIEW STOCK FARM

PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK, - - LITCHFIELD, NEB.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA.

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PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to **Hudson, Iowa,** and see **Crownover's** new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

WILLIAM CROWNOVER - - HUDSON, IOWA

IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

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One of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. Reference: The banks of Lawrence, 40 miles west of Kansas City. Address **Al. E. Smith, Lawrence, Kansas**

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

NORTH & ROBINSON CO.,

IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE

STALLIONS AND MARES.

50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of Imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

NORTH & ROBINSON CO., Grand Island, Nebraska

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

TWO GREAT SALES
BIG-TYPE POLAND CHINAS

FLORENCE, NEB., FEB. 12th
D. C. LONERGAN'S SALE

50 HEAD 50

I AM selling eighteen fall gilts, eighteen spring gilts, balance tried sows, the greatest offering I have ever sold. These are sired by **BIG VICTOR, GUY'S PRICE 2D, LAKESIDE WONDER, BIG TOM, I AM BIG TOO, L'S QUALITY** and others. These are bred to **BIG VICTOR, GUY'S PRICE LAST, BIG BOB, KING GIANT** and others. The greatest offering of big-type, quality-kind Poland China sows ever sold in the West. Write for catalog and mention Homestead. Address

H. S. Duncan, auctioneer. **D.C. LONERGAN, Florence, Neb.**

FLORENCE, NEB., FEB. 13th
Kuhl's Closing-Out Sale

50 HEAD 50

INCLUDING all my great herd sows, fall and spring gilts. Also my two great herd boars, **Big Tom** and L's Quality. Among the great sows will be **Tecumseh Belle.** No better will be sold this year. Also Lady Hadley, the best producing sow I have ever owned, and others too numerous to mention. These are bred to Big Tom, L.'s Quality and Big Omaha. Mention Homestead when writing for catalog. Address

H. S. Duncan, auctioneer. **H. P. KUHL, Florence, Neb.**

Bids sent to M. T. White, Homestead representative, in care of above readers, will be properly cared for on day of sale.

LAWNDALE SHORT-HORN AND POLAND CHINA SALE

TO BE HELD AT LAWNDALE FARM

Bellevue, Iowa, Thursday, Feb. 13th

24 SHORT-HORNS, consisting of nine bulls and fifteen females. Among the bulls are some herd headers, particularly a June Rosebud calf by Monarch Viceroy, a November yearling Rosebud by Archer Boy, a November yearling Victoria, a Rose of Autumn and a Fashion, all by Monarch Viceroy, Monarch Viceroy also sells and he has been a consistent winner at the Iowa State Fair for the past three years. He is by Orange Monarch and of the Princess Royal family. The Great Victoria show cow, Victoria Pride, sells, as does the great two-year-old show heifer, Sweet Fashion. The females are of the Victoria, Strathallan, Rosebud, Butterfly, Duchess of Gloster, Fashion and Rose of Sharon families. If you want a herd bull or a grand young cow, attend the sale.

30 BIG-TYPE Poland China bred sows will sell. They are by Big Bone, Big Bone Expansion, Peerless Monarch by Big Bone, Columbia Dude, and are bred to Big Jumbo and Dude's Masterpiece by Columbia Dude. These sows are big, smooth, heavy boned and have quality. Their breeding is of the best. Write me for catalog mentioning The Homestead. Auctioneers, Colonels Bellows, Cooper, Burge, Mullaney.

THEO. MARTIN, BELLEVUE, IOWA

E. C. STEMEN & SON'S
ANNUAL BRED SOW SALE

AT FARM, MIDDLE POINT, OHIO,

Friday, February 21

60 HEAD OF RICHEST BREEDING WE EVER SOLD---60

THEY are bred to Highland King, Defender King, Proud Professor, Wonder Chief, Defender King, I am Buddy K. and Fancy Col. II. The sows and gilts are sired by such noted boars as Highland King, Hi King, Defender King, I Am Buddy K., Crimson Col., Defender, Proud Professor, Instructor, Superba, Cherry King, Model Wonder, L. E.'s Valley Chief and others. Every lover of the Duroc hog is invited to attend. Bids by mail or wire may be sent to H. E. Browning. Cols. Reppert and Igleheart, Aucts. For catalog and further information, address

E. C. STEMEN & SON, Middle Point, Ohio.

Golden Model II. Bred Sow Sale

ON **FEBRUARY 11th** we will sell 40 Duroc Jersey bred sows, 20 will be bred to the unequaled sire of winners, Golden Model II. Others bred to High Model (grand champion Iowa, 1912), Golden Model 31 (grand champion Sioux City, 1912), and Sensation Wonder (3d Iowa, 1912). Our 1912 herd of show sows are included. More good sows in this sale than will be sold in any other sale this year. Write for catalog mentioning The Homestead. Address

WALTEMEYER BROS., - - MELBOURNE, IOWA.

BLOEMENDAAL--KORVER BROS.

ALTON, IOWA,

TUESDAY, FEBRUARY 18

50 BIG Poland China bred sows, including some extra choice yearlings and matured sows and gilts of the same class. Sows by Big Orange, Long King 2d, Big Wonder, Long Orange; gilts by Big Black Jumbo (one of the biggest), Mouw's Chief, A Wonder A, Mastodon Wonder and Big Wonder. Service boars, Big Black Jumbo, Big Wonder by Ellerbroek's A Wonder, Mouw's Chief, Gerstdale Wonder and Big Jones Again. Sows strongly bred in choicest big-type lines and a big, deep, broody kind of matured sows all through. Fall sows of champion show type. Gilts grown out well, but not so fat they won't do well anywhere. Look over these in the catalog: Mollie C., Mollie B., Prospect Lady, Smooth Lady, Miss Orange 3d and Big Wonder's Girl. Cols. H. S. Duncan and J. A. Benson, auctioneers. Ray L. Gribben, field man. Send now for catalog. Sale day before Peter Mouw's. Address

G. J. BLOEMENDAAL or KORVER BROS., ALTON, IOWA

SPIRIT LAKE CHESTER WHITE SALE

Fair Grounds, Spirit Lake, Iowa,

F. W. La DOUX, THURSDAY, FEBRUARY 13th

40 HEAD of choice Chester White sows, including matured sows, fall and spring gilts and a mighty even bunch. One of the banner offerings of this breed for the year. Sires—Joe Cannon by the great Onward, out of dam by Dunbar's Choice, and Gold Coin by Wonder by Nashua Boy, dam Fancy Girl 4th by Prince B., out of Fancy Girl. Service boar in addition to above, Silver Dollar by Ben Royal, dam by the great boar in Mr. Gaffey's herd, Sam B. Few Chester White boars sire the well-shaped pigs with **big bone** and **good feet** that Gold Coin does. A sow bred to him will give vigor and size and strength to the pigs she farrows. This is an extra good Chester White offering. C. C. Evans and Wm. Foshier, auctioneers. G. M. Thompson, Chester White breeder, will represent The Homestead.

F. W. La Doux, - - Spirit Lake, Iowa.

A GREAT POLAND CHINA EVENT

WILL BE THE SALE OF BRED SOWS MADE BY ORVILLE O. JONES, YORK, NEBRASKA, FRIDAY, FEB. 21, '13

40 CHOICE SOWS

TWENTY-FIVE of them select spring gilts. Seven fall yearling and 8 tried sows, and every one chosen with care for this sale.

The very tops of the herd are divided to make this sale. It is to your interest to attend this sale.

Send for catalog today.

With-out question one of the greatest and biggest boars of the country and the sire that is becoming more popular each season. His get breed on.

40 CHOICE SOWS

ALL bred to farrow in desirable time, and nearly every one sired by or bred to Jumbo the Great. The equal of any big boar in the West.

The choice sows we sell bred to Jumbo the Great should produce herd headers of the best herds anywhere.

Send for catalog today.

J. C. Price, field man. Col. Callahan, auctioneer. Mention Homestead and address

ORVILLE O. JONES, York, Nebraska.

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LIVE STOCK AUCTIONEER
Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.
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PEDIGREED live stock. Also have new plan for selling real estate. It is a money getter. Send for it today. Also my terms. Address
EDGAR, - - NEBRASKA.

COL. G. W. HALLER, Spencerville, O.
Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates.

HAMPSHIRE SWINE.

VALLEY VIEW HAMPSHIRES. Breeding stock, either sex, any age, quality unexcelled, satisfaction guaranteed. Fred Wheeler, St. Charles, Ia.

POLAND CHINA SWINE.

W. H. COOPER, LIVE STOCK AUCTIONEER

THE fact that I am selling for many of the best breeders of today is ample evidence of my ability to get the value of your property. I am arranging sale circuits, making dates for next season's business, now. If my services are desired to conduct or assist in your sale would be pleased to give you dates and terms.

DON'T FORGET, WE BREED AND SELL BIG-TYPE POLANDS We will sell now some AUGUST boars and gilts, sired by our 860-pound two-year-old boar, BIG BONE 2d, and out of sows weighing 650 to 800 pounds. These at $20 each while they last. If you want some send your check with the order. You can send them back and we will return your money if they don't suit. Can furnish boars unrelated. Address
W. H. COOPER, HEDRICK, IOWA.

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address
C. H. PORTER - EAGLE GROVE, IOWA.

Herd Headers

OF early fall farrow from one of the oldest Poland China herds in West. Heavy boned, thrifty and big. As good as I have bred in twenty years, The kind that will cost $100 a little later and be worth the money. A small part of that will buy them now. Also see my ad in Barred Rock department.
F. R. BARRETT - CADAMS, NEB.

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address **E. V. Waugh, Greeley Center, Neb.**

POLAND CHINA BRED SOWS Sows by our 1,000-lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
P. S. & S. BARR, - Davenport, Iowa.

FOR SALE

A FEW big-type spring gilts, one fall gilt, Will be sold worth the money. All from matured stock. Weight 225 to 300 pounds, fall gilt near 400 pounds. Also 1912 fall pigs. Write for prices and description. Address W. A. Bissonnett, R. 1, Charles City, Iowa.

Poland China Swine

BIG-TYPE Poland China gilts bred for March and April farrow. If you want something with lots of size and bone with quality. Write me your wants. Prices right. **H. A. Wohlsdorf, Lawler, Iowa**

For Sale--Big-Type, Prolific Bred Gilts

AT from $35 to $40, and aged sows at $50 to $60, and a few choice September 3d fall pigs at $20. All healthy and the kind that sell at sight. Will sell two herd boars. Address
J. B. HEISEL - GRINNELL, IOWA.

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address
E. J. AUGSPURGER, - PULASKI, IOWA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Iowa

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners.
G. A. WIEBE - BEATRICE, NEBRASKA.

BERKSHIRE SWINE.

BIG-TYPE BERKSHIRES.

5 JULY boars, $15; 5 April 1911 sows to farrow in April, $50 each; 2 show sows as above, $60 each; 5 yearlings, $40; 10 spring pigs, $30. Bred to show boar. W. A. O'Brien, West Wind Farm, Route 2, Reedsville, Wisconsin.

YORKSHIRE SWINE.

LARGE YORKSHIRES Choice breeding stock, from state fair prize-winners. Gilts bred for May farrow to an imported boar $25 each, registered. Pigs, all ages, either sex. Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

50 HEAD POLAND CHINA SOWS FOR SALE 50

WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.
WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address
E. F. ESCHER - . - MANNING, IOWA

BIG-TYPE POLAND BRED GILTS

THESE gilts are sired by Longfellow 2d 183143, and Giant Wonder 183147, and are bred to Giant Wonder, L.'s Wonder by Gritters' A Wonder Again and Orange Jumbo by Mouw's Tecumseh Jumbo. Gilts are out of sows by Longfellow, Long Wonder, Miller's Chief Price, Big Orange and Beauty's Jumbo. Write for price, mentioning The Homestead.
THOS. LIEN, ELGIN, IOWA.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address
R. B. BAIRD, Central City, Neb.

CHESTER WHITE SWINE.

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address
ALDEN ANDERSON, ELLSWORTH, IOWA

Anderson's Chester Whites

70 1912 fall pigs, weight 75 to 100 pounds. If you want size, length, and bone with plenty of quality I have them. They are good enough to ship C. O. D. anywhere. Buy a few of these gilts or a boar now. They are priced to sell. Pedigree furnished. Address
ED ANDERSON, R. 2, ALTA, IOWA.

SWEEPSTAKE 28006 WEIGHS 1260, 1ST AND CHAMPION
Boar at Iowa, 1912, heads our herd of Chester Whites. **We ship c. o. d. and pay all express charges.** Choice growthy bred gilts. Catalog free. We also offer for sale Recorded Shire Fillies, and Mares in foal. Write
B. M. BOYER & SONS - - - FARMINGTON, IOWA

Col. W. H. Irwin
Auctioneer

I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.
Harrod, Ohio

I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address
E. H. KAHL, - Buffalo Center, Iowa.

CHESTER WHITE BOARS

OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address
VANDERSLICE BROS. Cheney, Neb.

When writing to advertisers please mention The Homestead.

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.
S. J. PHILSON, - Harlan, Iowa.

I SHIP C. O. D.

CHOICE registered Chester White swine. Both sexes, not akin. Farmers' prices. Pedigrees free
GLENN RIDER - Farmington, Iowa

CHESTER WHITE GILTS

CHOICE heavy-boned bred to Lewis B. No. 22617 for March and April farrow. Get my price. Address **JOE EGELHOF, CUBA CITY, WIS.**

Burkett's Chester Whites

SOME real herd-heading young boars. Also a number of choice gilts, for sale at reasonable prices. Address W. H. Burkett, Beaver Crossing, Neb.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our are aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today.
MIKE SHARP & SONS, COAL VALLEY, ILLINOIS

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Keatucky ond Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today.
R. L. BOLLMAN, COAL VALLEY, ILLINOIS

BRED SOWS FOR SALE

FOR March and April farrow. They are bred to Look Out, an outstanding boar, also Rival Chief and P. M. Maloy. This breeding should make a good cross. Prices reasonable. Write
GEO. LIPPERT - - - - MAGNOLIA, ILLINOIS

HAMPSHIRE SOWS BRED TO MESSENGER BOY

THE undefeated GRAND CHAMPION BOAR of 1911 and 1912. I have a few good yearling sows bred to MESSENGER BOY, and a few to Capt. Jack's Model by Capt. Jack. Write soon if you want one and mention Homestead.
CLAYTON MESSENGER, - - KESWICK, IOWA.

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address
H. D. DE KALB, - - - - Dekalb, Iowa.

SUNNY SLOPE HAMPSHIRE SWINE

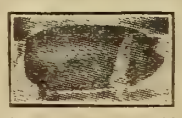
JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.
C. A. BROOK, - - - - WASHINGTON, IOWA.

WE ARE offering ten yearling sows bred to Capt. Porter, a mammoth boar, for March farrow. Eight gilts bred to the Kentucky-bred boar, Rival Lad, for April farrow. These hogs are of the best breeding and are priced very reasonable. Write us for description and prices.
WOOD & WESCOTT, SHEFFIELD, ILLINOIS

IMMUNIZED HAMPSHIRES

OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address
J. CROUCH & SON, La Fayette, Indiana.

GOODENOUGH'S HAMPSHIRES



BOARS all sold but two extra good yearlings. I will hold a public sale of bred sows and gilts on January 27, 1913. Write me, mentioning The Homestead.
A. L. GOODENOUGH - Morrison, Illinois

CHESTER WHITE SWINE.

Wildwood Chester Whites Brood Sows for Sale.

6 YEARLING sows and 30 spring gilts bred for late March and April farrow to 4 high-class mature herd boars. Strong bone, good size and in moderate breeding condition. Address
W. W. VAUGHN, - Marion, Iowa.

CROSIER'S O. I. C.'S

LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address
CHAS. W. CROSIER, - Juniata, Neb.

SCHEHL'S CHESTER WHITES

WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rouen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

BOARS ALL SOLD

GOOD lengthy gilts, weighing 200 pounds, safe in pig. Price $30 each. Sire, Michigan Chief, an 800-pound boar at two years old. Address
J. T. SCARFF, Salem, Henry County, Iowa.

30 CHESTER WHITE

SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

Chester White Sows

25 bred sows and gilts for sale. Some are show sows and all are as good as can be found. Some gilts weigh over 200 pounds. Bred to an 800-pound hog.
Earl Bloom, Bridgewater, Iowa.

EVERY Chester White and O. I. C. breeder and feeder should read the White Breeders' Companion, Rochester, Ind., the only paper published exclusively for this breed, 50c a year. Subscribe today

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. FRED RUEBUSH, SCIOTA, ILLINOIS.

ORME'S PRIZE-WINNING CHESTERS A few herd headers in July and October boars, a few gilts. A. C. Orme, Nodaway, Ia.

MULE-FOOTED SWINE.

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resis disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale.
Samuel Johns, Sec. A., Wilmington, Ohio.

DUROC JERSEY SWINE.

DE YOUNG'S DUROCS

A FEW good gilts and bred sows to sell. Best lines of breeding, King of Col.'s Again, Phallas Col. and Crimson Sol., sires of majority. Bred to Crimson Climax boar and others of similar good breeding.
A. J. De Young, Sheldon, Iowa.

WENDT'S DUROC JERSEY BRED SOWS

GROWTHY brood sow prospects by C. Indicator and Long Hero, bred to Grand King by Crimson Climax, and above boars are individuals on which they could be used. Stretch, bone and size specialties.
W. J. WENDT, Remsen, Iowa.

At $10 and $15 You can have the pick of our bunch of fall Duroc Jersey pigs, and we also have a number of choice sows for sale. Also some late gilts that will sell at small advance over market. Breeding first class, hogs healthy and all right. Bargains, address today A. A. Martin & Son, R. 4, Box 107, Lincoln. Neb.

Snethen's Durocs

FALL GILTS by Belle's Choice Goods and bred to a son of Crimson Wonder Again and Golden Model 51st. All are best of breeding and priced right. Address J. S. SNETHEN, Davis City, Iowa.

30 DUROC BRED GILTS

I HAVE 30 large spring gilts weighing 250 to 300 pounds, of Chief's Col. breeding and bred to a son of S. E.'s Premier Col., that I will sell worth the money. If you want good ones write me. Address
CHAS. A. MOULTON, Morrison, Illinois.

BRED SOWS AND GILTS

A GOOD lot of Duroc Jersey gilts, large, lengthy, with good color and plenty of bone, bred to farrow in March; sired by Choice Goods, High Col. and Model Chief; bred to R. J.'s Chief, Harding's Model 5th and King Gano. J. C. Porter, Ogden, Iowa.

WE HAVE A DRAFT of bred gilts that are bred for March and April farrow good enough for a breeder and cheap enough for the farmer. Bred from leading families, mated to best male we have ever owned. Col.-bred hog. For particulars and prices write, phone or come see them. Farm near town. J. W. Troy & Bros., Rose Hill, Ia.

DUROC BRED GILTS

I AM making special prices on 20 March and April gilts bred to farrow in March and April. These gilts are bred to Chief Col. and Prize Wonder. If you want some bred gilts write me at once as they will not last long at the price. Frank N. Crow, Oxford, Ia

DUROC JERSEY BRED GILTS FOR SALE

BRED for early farrow, ready to ship. If you want bone and size and color we have them. We also have 100 bushels choice Reed's Yellow Dent seed corn. Write or come and see us. Address
D. NAUMAN - WEST LIBERTY, IOWA

FOR SALE Open gilts by Crimson Col. one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address
C. B. REAM - Route No. 6, Lima, Ohio.

KEAN'S DUROCS have length, color, bone and breeding. Bred gilts and yearlings. A few good ones left for April farrow. Priced worth the money. Frank Kean, Mt. Pleasant, Iowa.

DUROCS Can spare a few choice sows bred for April farrow. Address
L. L. WOODS, - GRINNELL, IOWA.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion Intetnational Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
E. S. MAYES, JR., SPRINGFIELD, KENTUCKY

J. W. STORM BUYS THE GRAND CHAMPION DUROC BOAR, VOLUNTEER, AT $1,500

HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead,
J. W. STORM, SEVILLE, OHIO

CHERRY LAWN DUROC JERSEY BRED SOWS

WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individually. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first-class. Address
ROBT. PRITCHARD, - - - - CARROLL, NEB.

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to Col. Pilot Wonder and Mound's Col. A few extra nice fall pigs, either sex. SMITH & RODGERS, Springfield, Ohio.

Cramer's Grand View Durocs

WE have several choice gilts bred for early farrow that are bred right and must make good. Pricee right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address M. C. CRAMER & SON, Monroe, Iowa.

LARGE DUROC JERSEY BRED GILTS

I HAVE 25 March, April and May gilts by Daisy's Chief out of dams by Col. Advance, Model Advancer Chief's Col. and others, bred to Model Select by Chief Select Jr. Gilts weigh 250 to 300 lbs. Prices right.
J. H. MORF - - - - - FAYETTE, IOWA

MENAUGH BROS.

GARDNER, ILLINOIS,

DUROCS, POLLED DURHAMS

SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write
MENAUGH BROS., Gardner, Ill.

Duroc Jersey Bred Sows

STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic.
C. H. PEWSEY. Sioux Rapids, Iowa.

20 GILTS and SOWS bred for March and April farrow. Good length and bone. Moderate prices to move them soon. S. J. Butts, Mason City, Iowa.

AVERYDALE BOARS and bred sows. Also Silver King corn. A. M. Avery, Mason City, Iowa.

FOR SALE

SPRING boars by Volunteer, A's Defender, Superba, Chief's Col., Defender, and Pal's Col. Dams by Chief's Col., Defender, Ohio Chief, Proud Advance, Crimson Wonder III., Educator, Tippy Col., Fancy Col., and The Helen Blazes, Willettas, Lucy Wonders and Sunbeams. Show boars a matter of special correspondence.
H. E. BROWNING - Hersman, Illinois.

CLOSING-OUT SALE FEB. 18th—60 Duroc Jersey gilts, 50 Bates Short-horn females, 5 bulls. Gilts by Prince of Cols., Ruberta Crimson and Wonder Col., bred to Col. Tientsin and Chief Muncie. Address THOS. BROOKS, Belmond, Iowa.

OAKVIEW DUROCS. Bred gilts and sows, March and April farrow. Prices right. For 30 days only, fall pigs, either sex, $12.50 to $15 each. Write us mention Homestead. A. Nevins & Son, Modesto, Ill.

FALL PIGS AND BRED SOWS Will be offered for next few weeks at from $10 to $40. White Rock cockerels and W. Holland toms. Address EARL ROBERTS, Ulysses, Neb.

HORSES AND JACKS.

HOMEWOOD STOCK FARM PERCHERON, BELGIAN, SHIRE STALLIONS AND MARES

Now is the time to buy a good stallion or mare. We have the kind you have been looking for. Our horses arrived home in October, are now perfectly acclimated and in the best of condition to do you a lot of good. The Percherons are two and three years old with size, bone and draft horse qualities, many of them weighing over a ton and not fat.

Our mares are of the best brood type. All are in foal and plenty of ton mares to select from. Every animal guaranteed sound and a satisfactory breeder. Others say we have the best bunch of two-year-old Percherons they ever saw. You will say the same. Come and see us or write for full particulars. You will find horses right, terms right and prices below others of equal merit. We have also a lot of big, heavy-boned American-bred stallions at surprisingly low prices. Don't buy until you have seen our stock. Homewood is on the main line of the Big Four and I. C. R. R., twenty-three miles south of Chicago. Trains hourly to and from the city.
S. METZ & SONS, HOMEWOOD, ILLINOIS.

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.
P. J. EGGERS - Denison, Iowa.

SPECIAL OFFER THIS WEEK.

IN ORDER to move the few horses that I have on hand am naming special prices for quick sales. One splendid gray and three blacks. Would trade one for mares. Can please those looking for a good horse and save them some money. Percherons and Short-horns our specialty. F. A. Egger, Crystal Lake Stock Farm, Sprague, Nebraska.

FOR SALE

HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.
E. P. HAMILTON & SONS,
Garden Grove, Decatur county, Iowa. R. F. D. 2. 23 miles southwest of Chariton.

Prize-Winning Clydesdales 2 STALLIONS, one full brother to the great Forest King, one a yearling by him. Size, big, flat, clean bone, good feet and lots of draftiness their characteristics. One mare, the dam of the yearling colt. I absolutely guarantee these to be all right. Address Jas. Pedley, Britt, Iowa.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. MILLER, Route 1, Lucas, Ia.

PERCHERONS FOR SALE Stallion and mares. A Short-horn bull 5 months old. W. H. Miller & Sons, Independence, Ia.

FOR SALE—Duroc gilts bred. Shetland stallion, Ruby's Trinket 10579, black and white, 3 yrs. old, half value. Fred Hanks, R. 3, Box 55, Winnebago, Minn

JACKS AT PRIVATE SALE

IF you want the BIG kind come to one of the oldest breeding barns in the state where you will find the big, heavy-boned, black fellows that will do your country good and at reasonable prices. Mention The Homestead and address
G. M. SCOTT, - Rea, Missouri.

Percheron Stallions

ONE coming three, two coming two-year-old stallions, sired by 2,200-lb. stallion, out of daughters of Georgiana, one of the greatest mares of the breed, won the blue at the Iowa State Fair, producing 18 living colts without a break, three of them state fair winners. They are a wonderful family of show horses, and sure breeders. These young stallions will all make better than ton horses. We are pricing them to sell. Address, mentioning Homestead,
WOODLAWN FARM, Sterling, Illinois.

WHAT KIND OF COLTS

WILL your mares drop this spring; pure breds worth $175 to $275 at weaning time, or grades for which you will be lucky to get $100 at same age? Starting right doesn't cost so much as you imagine. t costs no more to rear pure breds than "scrubs."

Purchase Percherons

Free Bulletin C on request. Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

PERCHERON horses wanted. Will trade one-half value of my 400-acre farm to start a herd. If interested write to C. C. Cook, Draper, South Dakota.

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

FOR SALE—Bay Clydesdale stallion, 4 years old. A good individual. A proven breeder out of a family of breeders. Wm. E. Coe, Mechanicsburg, Ill.

DORR'S 15th ANNUAL POLAND CHINA SOW SALE

MARCUS, IOWA,
(POSTOFFICE, REMSEN, IOWA)

TUES, FEB. 11, 1913

65 HEAD practically everything our own breeding, and we will be glad to have you compare them with the best you have seen. Thirty-four gilts all sired by Dorr's Expansion. Spring gilts by Big Defender Expander, a few by the great champion, Blue Valley Chief. Offering bred to Dorr's Expansion, Expander, Big Monarch by Gold Dust Hadley and Big Tecumseh by Blue Valley Chief. Our herd has produced prize winners for us. Stock we have sold has produced prize winners for others. Farmers who breed only for market have made good money with our breeding. This is the best offering we have ever made and is bound to keep the record straight.

H. S. Duncan, J. A. Benson, auctioneers.

HENRY DORR & SON, REMSEN, IA.

SALE AT MARCUS.

Ray L. Gribben, field man for The Homestead.

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40 Poland China Sows Sale in Heated Pavilion

Des Moines Futurity Litter to be Sold.

E. S. BARKER, DOON, IOWA.

Lyon Chief or his sons sired first-prize pigs at Iowa, Minnesota and South Dakota, 1912

J. A. Benson, Auctioneer.
Ray L. Gribben, Field Man for Homestead.

Sale, Feb. 13, 1913. DOON, IOWA.

J. M. PEERY

ALVORD, IOWA,

FRIDAY, FEB. 14, '13

A DISTINCTIVE offering of 45 Poland Chinas, 28 fall gilts, 10 spring gilts and a half dozen tried sows. The entire lot is made up of the same kind that have given success wherever we have sent them from previous sales. Many of them have produced boars which are among the tops in several herds. There are good things in plenty here. Sows and gilts sired by Peery's Long Orange by Big Orange; Great Expansion by Dorr's Expansion; Jessie Chief by Lyon Chief; Big Bone; Chief Price Again, and Ruebel's A Wonder. Our selections for our herd have been consistently along a definite line. All bred early and real brood sow types.
J. A. Benson, auctioneer.

J. M. PEERY - ALVORD, IOWA.

Ray L. Gribben, field man for The Homestead.

FRANK WHITE'S SECOND ANNUAL SALE AT

HAMPTON, IOWA, WEDNESDAY and THURSDAY, FEB. 19 and 20

125 HEAD OF REGISTERED HOLSTEIN-FRIESIAN CATTLE 125

THIS includes the dispersion of two entire herds. More A. R. O. animals and A. R. O. breeding in this sale than any other sale ever held in the state. The offerings are of the very best of breeding, including granddaughters of Hengerveld De Kol, King of the Pontiacs, King Segis, Homestead Jr. De Kol, Woodcrest Nig De Kol, Pietertje Hengerveld De Kol, Paul Beets De Kol, and many other of the leading sires of the breed. Also daughters of Cornucopia Pontiac Johanna Lad 48355, full brother to the new world's champion senior two-year-old heifer, K. P. Manor Kate, which just recently finished a yearly record of 1,023 pounds of butter. If you want the best, don't forget to come. Will also sell fifteen of the best grades that ever went in a sale ring. Animals over six months tuberculin tested. Catalogs now ready.

Auctioneers, H. E. Haeger, Algonquin, Illinois; I. H. Stinson, Hampton, Iowa; J. W. Ford, Cedar Falls, Iowa

FRANK WHITE, Hampton, Iowa.

Cockerton--Polly Sow Sales

90 Head--The Tops of Our Two Herds 90

February 18th

JAMES COCKERTON - - - - - WHITING, IOWA

50 HEAD 50

INCLUDED will be Long Mollie, the largest sow that will be sold this year. Her daughter also goes in and she is a hummer. Six tried sows, 11 fall sows by the great Sioux Chief, 30 spring gilts by Big Wonder and Orange Jumbo. These are bred to Orange Jumbo, Big Wonder, A Defender and Cloverdale Wonder. If you want them big I have them. We stand back of our hogs and every hog purchased must be satisfactory to buyer. Write for my great catalog and mention The Homestead. Col. W. B. Duncan, Auctioneer. Address,

James Cockerton **Whiting, Iowa**

February 19th

C. C. POLLY - - - - WHITING, IOWA

40 HEAD 40

I AM selling the greatest offering I have ever put up for sale and they are all cholera immune. Five of the best tried sows I have ever sold, sired by Expansion B., Big Victor, Chief Price Jr. and Choice by Chief Leader. Twenty head of Lakeside Wonder gilts, the best you ever saw, also some good gilts by Polly's Chief Price. The five aged sows are all bred to Lakeside Wonder and others to Marvel Chief, a line-bred Chief Tecumseh boar. Write for my catalog and mention The Homestead. Col. W. B. Duncan, Auctioneer. Address,

C. C. Polly **Whiting, Iowa**

M. T. White will represent The Homestead at these two sales and will care for any bids sent in his care.

GEO. DAVIS & SON'S ANNUAL SALE

DUROC JERSEY BRED SOWS

will be held at farm 5 miles north of

MILFORD, NEBRASKA, FRIDAY, FEBRUARY 21

40 CHOICE sows will go in this sale and a number of them will be bred to the great boar, **Beem's Lincoln Chief.** He is certainly one of the best boars of the breed. This is the greatest offering that we have ever put up. Come and see them. Mention The Homestead and address for catalog.

GEO. DAVIS & SON, **MILFORD, NEBRASKA**

Col. Ray Page, auctioneer. J. C. Price fieldman.

Dispersion Hereford Sale

PEORIA, ILL., THURSDAY, FEB. 27th

46 HEAD--7 BULLS Including my herd bulls, Bondsman by Disturber and Perfection 2d by a son of the champion, Perfection. This offering will comprise a most useful lot of well-bred cattle, strong in the blood of Disturber, Beau Donald, Perfection, Corrector, March On and other great sires. Ten cows will have calves at foot. I have been breeding Herefords for twenty-two years with pleasure and profit, and were I not making a change in my farming operations these cattle would not be for sale at any price. Send for the catalog, mentioning The Homestead. Colonel Reppert, auctioneer. This sale follows that of W. T. McCray, at Kentland, Ind., February 26th, and can be easily reached from there. Address

THOS. E. McCARTY, **PRINCEVILLE, ILL.**

Mousel Bros.' Combination Sale

120 HIGH-CLASS HEREFORDS

To be sold in sale pavilion, GRAND ISLAND, NEBRASKA,

FRIDAY AND SATURDAY, FEB. 14 AND 15,'13

Choice selections from eleven of the choice herds of the country. All cattle are of desirable ages and all in good condition. The contributors realize that buyers wish the good ones and they have determined to make this offering one that will not be excelled for some time.

70 BULLS GO IN THIS SALE

and they number among them some as choice as have ever passed through a sale ring in the West. If in need of a herd header for the best kind of a herd, or a car of range bulls, be on hand.

A Group of Herd Heading Bulls in this Sale

The great shortage of beef cattle is just beginning to be felt, but the real shock is yet to come. Range herds of consequence are not many, and corn-belt pastures are mostly empty or already in crops. All beef cattle are quite certain to appreciate in value, but the greatest opportunity for investment is the pure breds.

THE 50 FEMALES

that will go in this sale will be a chance to buy choice breeding stuff that may not be equaled again soon. Buy these cattle before the great rise in cattle is widespread. Attend this sale. It is an opportunity that the careful business man should not overlook. Be on hand.

The contributors are breeders of high-class cattle, their names should be sufficient guarantee of the value of this offering. They are: Gudgell & Simpson, Independence, Mo.; Hugh Whiteford, Guilford, Mo.; O. E. Green, Genoa, Neb.; Geo. O. Benger, Callaway, Neb.; Mousel Bros., Cambridge, Neb.; E. C. Rodwell, Cambridge, Neb.; A. C. Smith, Lexington, Neb.; Fred Mues, Edison, Neb.; G. E. Stryker, Rising City, Neb.; Dauchey Bros., Stockdale, Neb., and Thompson Bros., West Point, Neb. Send for the catalog of this big sale at once. Mention The Homestead when you write. Address

MOUSEL BROTHERS, CAMBRIDGE, NEBRASKA

COLS. BRANSON AND SNELL, AUCTIONEERS

Bob Ewing's Great SUPERBA and B. & C.'s COL. BRED SOW SALE

NEW HAMPSHIRE, OHIO, MONDAY, FEB. 17TH,

50 Head of Select Duroc Sows Bred to Superba and B. & C.'s Col. **50**

THE great gilt, American Beauty by Superba, bred to B. & C.'s Col., is one of the best specimens of the breed and is sold as a special attraction. These sows are sired by Defender, Superba, Orion Chief, Reformer, Prince of Cols., King of Cols. Ideal, Educator, Instructor, Crimson Col., Chief H. E., Highland King, King of Cols., King of Cols. II., Freed's Col., Top Col. II., Helen's Chief, Defender King, and others. We purchased ten of the top gilts from the East Bros. herd mostly by Defender and all bred to Superba. Among these there is a star attraction sired by Crimson Chief, second-prize senior boar at Ohio State Fair, 1912. The Superba gilts are bred to the great champion boar, B. & C.'s Col., while seven head are bred to the great pig, Orion Chief, full brother to Crusader. The offering is first class throughout. All mail and wire bids should be sent to H. E. Browning, representing The Homestead, in our care. Colonels Igleheart, Reppert and Irwin, auctioneers. For catalog and other information, address

BOB EWING, NEW HAMPSHIRE, O.

J. W. STORM'S GREAT VOLUNTEER SALE

The Storm Center of Ohio Duroc Sales

SEVILLE, OHIO, THURSDAY, FEB. 20

50 Head of Choice Bred Sows AT PUBLIC AUCTION **50**

25 HEAD bred to VOLUNTEER, champion at the International at Chicago, 1911. For this boar we paid $1,500. The sows bred to him are by Defender, A.'s Defender, Orion Chief, Jack's Friend, Proud Professor, Defender King, King To Be, Crimson Col., Good E Nuff, Tax Payer, Good E Nuff Chief. As a special attraction will sell one sow by Volunteer and Crimson Col., bred to Defender. Other sows are bred to the noted young boar, Royal Superba by Superba. These sows are the tops of many sales and we have endeavored to offer only the choicest specimens bred to the noted boar, Volunteer, that has won more prizes at the leading state fairs and expositions north, south, east and west than any boar living. As a sire, his get have won prizes and topped many sales. Among them is the great Volunteer litter that sold for $1,100 at auction. This is an opportunity offered the breeders in the East to get the best Duroc blood known to the world. Everybody invited. Those who cannot attend should send bids to H. E. Browning, representing The Homestead, in our care. Colonels Reppert, Igleheart and Irwin, auctioneers. For catalog, address

J. W. STORM, SEVILLE, OHIO

S. J. Miller and Dr. Herr's Great Public Sale

of

75 Head of Choicely Bred Durocs at Lima, Ohio, Feb. 19, 1913

THE offering consists of fall yearlings and spring gilts and tried brood sows. Sired by such sires as Defender, Volunteer, Fancy Col., Helen's Chief, Superba, The Professor, Cherry King, Jack's Friend, King of Cols., Orion Chief, Morton's Top. Col., John's Ohio Chief, High Chief, Duke of Cols., Pal's Prince, King Pals Last, King's Col., Highland King, Premier Col., Prince Wonder, Crimson Col., Nugget, Defender King. These sows will be bred to Helen's Chief, the greatest living son of the old $6,000 hero, Ohio Chief, and a few to King's Col., Volunteer, Superba, Col.'s Pilot Wonder, Highland King, B. & C.'s Col., Crimson Col., and Defender King. Will also offer spring boars by Defender, Highland King, and Superba, also fall pigs of both sexes by Defender, Crimson Col., and Royal Instructor. Don't fail to come and spend the day with us on Fair View Stock Farm. This is the next day after Sprague's sale, and will be the opportune time of your life to buy Ohio Chief blood. Sons of Ohio Chief are very scarce, and Helen's Chief is the greatest one left since the death of The Professor and John's Ohio Chief. Write for catalog. Send mail bids to H. E. Browning, representing The Homestead. Colonels Igleheart, Reppert, and Irwin, auctioneers. Address

S. J. Miller, R. R. No. 8, Lima, Ohio

or Dr. Herr, Elida, Ohio

Out of town guests will be entertained the night before the sale at the Empire Hotel, Lima, Ohio. All cars and trains met at Cairo, one and one-half miles east from Fair View Stock Farm. Entire herd is immuned three times a year, making them cholera proof and safe to buy.

MENAUGH BROS.' Bred Sow Sale

GARDNER, ILLINOIS,

Saturday, Feb. 22, 1913

60 Head Select Bred Duroc Sows at Auction

THE blood of Ohio Chief, Kant Be Beat, The Cols., Model Top and other noted sires. Our offering this year is a very select one and we especially ask our brother breeders and friends to attend this sale as it is the best we ever offered.

Bids should be sent to H. E. Browning representing The Homestead in our care.

For Catalog Address

Menaugh Bros., Gardner, Illinois

COL. FRED REPPERT, AUCT.

The Pines Farm DUROCS

45 Bred Sow Sale 45

To Be Held at

La Fayette, Indiana, February 24, 1913

Tried Sows, Fall Yearlings, Spring Gilts

Sows carry the blood of Orion Chief and Ohio Chief to a great extent. They are bred to Crusader No. 40191, the best Orion Chief boar living, Pine Professor, a son of The Professor, and Fancy II. ONE SOW BRED TO COLONADE, the international grand champion. This is a grand bunch of sows. Make arrangements to attend this sale and secure something that will breed your winners. Send for catalog.

COL. FRED REPPERT, COL. A. L. CLARK, Auctioneers.

Wire or mail bids to H. E. Browning, in my care, to La Fayette, Ind.

Jess C. Andrew

WEST POINT, - - INDIANA

Peter Mouw, Orange City, Ia.

Biggest Poland Sows, Feb. 19

MATURED sows and yearlings selected from the foremost big-type herd. I have never sold them bigger for their ages.

Look at this list of boars; I have bred them or their immediate ancestors: **BIG JUMBO, Chief Price, Fairfellow, Longfellow 2d 52999, Longfellow 7th 95747, Long Wonder 85533, Long Wonder 90693, Surprise Wonder 4th, Smooth Big Bone, Black Big Bone, Big Knox, Big Orange, Long King, Long Orange, Smooth Wonder 2d,, Big Jones, Big Wonder, Boyden Jumbo, Peter's Jumbo, A Wonder 107353** and many others that have made this type famous.

Sows bred to Black Big Jumbo, Square Jumbo, Long Orange, Big Hal, Tecumseh Jumbo, and by boars of similar breeding. This is an offering of great brood sows, roomy, stylish, showy and **all big.** Buying here means getting big blood at its very foundation. Cols. J. A. Benson and Ira Cottingham, auctioneers. Ray L. Gribben, field man. Address

PETER MOUW - - Orange City, Iowa

Crow's Type Poland Chinas

WEBB, IOWA, February 21, 1913,

55 HEAD of bred sows and gilts by Crow's Kind 57395, Big Surprise 48274, Hadley Expansion 51540, Big Orange, King Mastiff and others. Bred to Crow's Kind, Big Surprise, Big Porter, Straight Edge and Brilliant. If you want sows that possess **utility** and **commercial value** in highest degree, attend this sale. I am selling the heaviest-boned blood lines and the hogs to match. Stretchy, motherly brood sows in condition to farrow big litters and raise them. These hogs will fatten at any age, but will grow largest of any breed. They carry a great finish when properly fitted, have wide backs and are well ribbed and stand on short pasterns and best of feet. We are not booming hogs, but are selling stock that make good. **Ask our customers.** We sell strictly on merit, and that this is no empty claim is proven by our record of twenty-three years. These are the owner's statements and he makes them good. Ray L. Gribben, of The Homestead, will attend the sale. Let him buy you a sow. We guarantee satisfaction. Please mention The Homestead. W. R. Ritchie, auctioneer. Address

W. J. CROW - - - WEBB, IOWA

Frank Iams' Imported Horses

IAMS' Imported "Percherons and Belgians" and "Iams' Best Buy." They need no "State Stallion Law" to make them sound. They are all sound "Bellringers."

Ikey Buyer:—Get into **"Iams' Money Saving Game."** See **Iams** and his **"Peaches and Cream"** Imported Stallions, "Prize Winners," that he sells at **$1,000** and **$1,400** (few higher). Imported mares— **"Topnotchers"**—at **$700** and **$1,000.**

"Ikey," be a **"Wise Guy"**—Buy **"Show Horses" of Iams**—who has crossed the Ocean **50 times** for horses and **sold 4,444 Registered Horses. "Iams' 30 years of Success"** make him a safe man to buy from at **Special Low Demonstrative Prices.** "Everybody Is Doing It."

These two Percheron stallions won second prize each in old classes in 1911 at Paris, Nogent C Rotson and Chartres, the three largest Percheron horse shows in France. It took the $10,000 Percheron to place them second. Iams has many Paris and European prize winners, all for sale.

are **"up-to-the-minute"** and 10 years in advance. They are the **"Drafty, big-boned tops"--Nifty, big "Black Boys"**—the **real "medal winners"**—sensational show and business horses of note, **"ripe peaches"** from the **"select 400." Big, classy "Peaches and Cream"--"Black Boys."** The **"Iams Brand"** of drafty **"top notchers."** Iams' **1912 importation of Percheron and Belgian stallions and mares are in the "Pink of Condition"** and ready for a good selling. **"Ikey Boy," smile sweetly,** and hundreds of **Iams'** satisfied customers **"will sit up and take notice"** that **Iams,** the **"King Pin"** horse importer, is still **"doing business"** at the **"old stand" (and good for 50 years). Iams** is **"pushing"** his horses to the front. The big **"Peaches and Cream" "Boys and Girls"** are **attractions** that can't be **overlooked.** Iams **mesmerizes** buyers with **"real drafters,"** at **"bargain prices,"** and having the **"horses as advertised."** Iams' **"competitors"** and "hammer knockers" are **"boosting** Iams" by their "knocks," until **now he is known** as the **"Millionaire Horseman,"** and on **"Easy Street,"** and growing fast. **Ikey, "Come on along," and sing Iams' song.** He is selling these **"aristocratic," fancy "Black Boys" cheaper** than ever **—or better horses for less money —$1,000 and $1,400** (few little higher).

100 Percheron and Belgian Stallions and Mares 100

They are **"Models"—"Humdingers."** They are two to five years old, weigh 1,700 to 2,500 lbs.; 80 per cent blacks, 50 per cent ton horses. Many **"prize winners"** and **"gold medal horses."** Big, drafty **"top notchers,"** with big bone, quality, style, finish and **action to burn.** They are **"Eye-openers."** Larger and better horses than seen elsewhere. Big **"business propositions"** that make **"the wheels work fast"** under a **"Buyer's hat." "Georgie, dear,"** Iams made a **"big killing"** by buying his horses in Europe in **October and November, 1912. "Dry weather," "bad crops,"** war scare, **"close money,"** and **"Iams' cash"** caused the **"prize winners"** and **"tops"** to be thrown on the market for a **"good selling." Iams "cut the melon"** and bought the **"rippers"** at **"knockout prices." Iams** will give his customers the benefit of his **"good buy." "Ikey, boy," come on down town** and see **Iams** and the **nifty, big "Black Boys" and "Sensational" low, democratic prices. "Everybody's Doin' It."**

Then get into Iams' "Get Rich Wagon" and save $1,000

on a **"top stallion,"** (and you wear the diamonds). Iams is a **"big fly in the ointment"** in the horse world. "He keeps the gang guessing." **Iams** sells **"imported horses only"**—(They win 90 per cent of prizes at big horse shows). **No "American-bred full-bloods"** with questionable breeding—**No "auction stuff"** or **"peddlers' horses"**—Only **"choice drafters"** of big size, bone, quality and finish. **"Iams' Horse Show"** makes you **"sit up and take notice"** and buy a $3,000 stallion at **$1,000 or $1,500.** Then your sweetheart wears the diamonds.

Iams' imported horses are "registered," "approved," "branded," "inspected" and "certificates stamped O. K."

by Governments of **"France and U. S. A."** Iams has the **"crack stallions and mares"** you "read about." Buy horses of **Iams** and you won't **"get stung" in horse or price. "Dolly D,"** waltz me around once again, **"Ikey;"** land me at **Iams' box office** and importing barns. Full to "the roof" with **"Black Boys"** (all must be sold) **Reduced prices.** All the world knows Iams and his **"Peaches and Cream" horses. 1912** was Iams' best business year. **1913 promises to be a bumper** year to **Iams** and **his customers. He saved $300,000 to stallion buyers** in 1912. Watch **"Iams' smoke in 1913."** Iams' 30 years of **successful business make him a safe man** to do business with. **Iams sells horses "on honor."** A boy or a lady can buy as cheap as a man. **"Ikey,"** be the "wise guy." Buy imported **stallions of Iams. He is reliable** and a **"Live wire"** for **Big Bargains.**

Iams' 1913 Horse Catalog is an "eye-opener."

It has **"a laugh"** and a **$1,000 bargain** in every line. A **"bunch of gold," the "book of books,"** to stallion and mare buyers. It is full of **"wide-as-a-wagon drafters"**—the real **"peaches and cream"** stallions. It shows largest imported stallions and mares in the United States, "true to life," and **truths, facts, "business propositions,"** and 100 illustrations of **"top notchers"** and the **"tricks of stallion peddlers"** and **"auction block"** salesmen. It is the **finest,** most elaborate, and **original up-to-date book in the world. Iams,** the **"Square Deal" horseman,** makes every statement in **ad or catalog good**— or you get the $500 he **hangs up. Iams** guarantees to sell you a

Better Imported Stallion at $1,000 and $1,400

(few higher) than is sold to **stock companies** for $2,500 to $5,000. Imported mares, **$700 and $1,000. Iams** gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish $1,500 insurance. **IAMS buys and sells every stallion himself.** Saves buyers $1,000 in **commissions and middlemen's profits.** He buys stallions by **"trainload."** He speaks the languages—(saving 20 per cent). He **is not in the "Stallion Trust."** He pays no **"Slick Salesman"** a commission to help **"do you."** He has no **2 to 10 partners**—to share profits. He **"pays cash"** for his horses—and sells **"top notchers"** by **"hot advertising"** and having **"the goods." "Big Moike,"** leave your **"happy"** home and buy a **"top"** stallion or pair of **imported mares** (of **Iams**) that bring colts that sell at **$500 each. "Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American full-bloods" of questionable breeding.** Buy an **imported horse** of **Iams, the "reliable horseman."** Then we will **"all wear diamonds." Iams' "selling clothes" fit all buyers. Write for Iams' million dollar horse catalog.** Iams won't let you go without a **Peaches and Cream** stallion or mare. **"He sells the tails off them."** Iams' guarantees are backed by **"half million dollars."** References—1st National and Omaha National Banks, Omaha; Packers' National Bank, So. Omaha; Citizens' State, 1st State and St. Paul State Banks, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL - - NEBRASKA

Holbert Horse Importing Company

The World's Greatest Importing Establishment

Percherons, Belgians, Shires, German and French Coachers, Hackneys

Big, ton black and gray Percherons our specialty—Blacks, black-grays, steel-grays and dapple-grays.

Royal Belgians—We import more Belgian stallions than any other firm in the U. S. Bays, browns, roans, chestnuts and blacks.

Shires—The best that old England produces.

We have at any time of the year more big, ton, high-class Percheron and Belgian stallions than any other firm in the U. S.

If your neighbor is thinking of buying a stallion send us his name and address and we will mail you FREE a beautiful lithograph of our premises, suitable for framing, showing 200 head of stallions.

A. B. HOLBERT, Proprietor and Manager, **GREELEY, IOWA**

VAN STEENBERGE'S

DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,
OGDEN, IOWA

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

-B-E-S-T-

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

PERCHERON and BELGIAN STALLIONS and MARES

IMPORTED and Home Bred. High-class horses on hand.

CALL AND SEE US.
E. H. Knickerbocker & Son
Fairfax, Iowa.

SHIRES

SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

ED. H. MAGOWAN & SONS, Gibbon, Neb.

Hart · Bros.

Osceola, Iowa

Our 1912 importation now in our stables. A high-class lot of imported Percheron, Belgian and Shire stallions and mares. Come and see them.

FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

STALLIONS

Home-bred draft stallions, $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds.

A. LATIMER WILSON, Creston, Ia.

OUR ENTIRE HERD OF 40 SHETLAND ponies for sale at closing-out prices. Address Spivey, Robb & Co., University Place, Neb.

FOR SALE Ten head of Percheron stallions, mares and colts. Address Ashbaugh Bros., Maynard, Iowa.

PERCHERON STALLION in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C. W. Chandler, R. 4, Kellerton, Ia.

TAYLOR & JONES

INTENDING BUYERS OF STALLIONS, EITHER

Percherons, Belgians or Shires

should not overlook the fact that **We Won**, at the Illinois State Fair 1912, **GRAND CHAMPION** Shire Stallion, **GRAND CHAMPION BELGIAN** Stallion, Grand Champion Herd of Best Five Percheron Stallions, Grand Champion Herd of Best Five Belgian Stallions, **FIRST PRIZE** aged Belgian Stallion, **FIRST PRIZE** three-year-old Belgian Stallion, **FIRST PRIZE** two-year-old Belgian Stallion, **FIRST PRIZE** three-year-old Percheron Stallion and Second and Fourth Prize aged Percheron Stallions. **Our Stallions defeated those of all other importers for every Championship in all the draft breeds.** These stallions are all for sale, with many other winners, at prices below what common horses can be bought for at many other importing barns. We also have for sale a nice line of extra good imported and American-bred mares. Send for our booklet containing prices and guarantee.

TAYLOR & JONES, Box 68, Williamsville, Sangamon County, Illinois.

THE Imported Shire Stallion, Severn Flag 12749 (28763), GRAND CHAMPION at Illinois State Fair, 1912, also winner of First Prize and Reserve Champion at the International, 1912.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP. EOLIA, PIKE COUNTY, MISSOURI

PERCHERONS
BELGIANS
SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA

Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

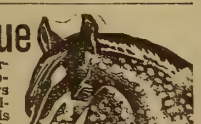
Watson, Woods Bros. & Kelly Co.
BOX 30 LINCOLN, NEB.

IMPORTER AND BREEDER OF PERCHERONS AND BELGIANS

CUSTOMERS get their money's worth on stallions and mares. Every animal just as represented. Can't be under sold by any firm, considering quality. All young, from yearlings to five year olds. Farms one mile from town. We meet trains.

C. G. GOOD - OGDEN, IOWA

The Best Value



HOME-grown Registered Percheron stallions of substance, 2 and 3 yr. olds, grays and blacks. Big, straight fellows that will pay you. It is worth a stamp and a moment's time writing to know about these. South Central Iowa. Fast trains.

FRED CHANDLER, R. T, CHARITON, IA.

Percherons

I AM offering some splendid yearling and 2-year-old stallions for sale at popular prices. Address

MONROE AYERS - Shenandoah, Iowa.

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10 Prize Winning Belgians

IMPORTED and home-bred stallions and mares, ranging in age from yearlings to matured horses. Some splendid mares and studs for sale. For particulars address

ED BOLL, JR., - SCRIBNER, NEB.

SHIRE AND PERCHERON STALLIONS AND MARES

IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

IMPORTED PERCHERON AND BELGIAN STALLIONS AND MARES

Also Home-Bred Stallions

I think it is better to have extra good stallions to show when customers come to see, than it is to claim you have them and cannot show. If interested, write or come and see me.

Bell Phone 237 or Union Hotel. On C. B. & Q and Santa Fe Railroads.

J. R. JUSTICE, at Union Hotel, GALESBURG ILL.

IMPORTED BELGIANS

I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.

R. F. FRENCH, INDEPENDENCE, IA.

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

WM. GRAFF

Imported Belgian, Shire and Percheron Stallions for sale at all times. Write me, address

MINIER, - - - ILLINOIS

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska.

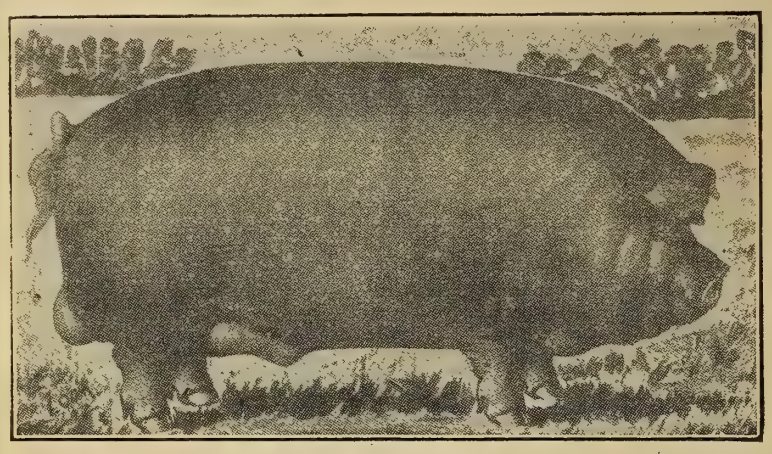
TWO OF THE GREATEST DUROC JERSEY OFFERINGS

of the season will be the sales of

GEO. BRIGGS & SONS AND GILBERT VAN PATTEN & SON

CLAY CENTER, NEB., TUESDAY, FEB. 18,'13

DAUGHTERS of Lincoln Wonder, Cleatham's Pride, Crimson Wonder 4th and B. & C.'s Crimson make up the greater part of the forty head that we are selling. We have a large herd to draw from and only top things will be offered. We want to make this the greatest offering that has ever left our farm.



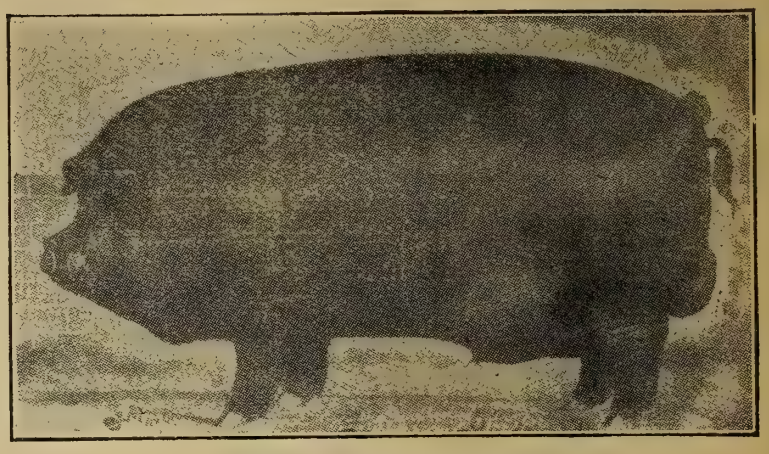
LINCOLN WONDER.

Nothing but high-class sires have ever been in use on our farm. Probably the greatest sire of top sows that we ever owned is Lincoln Wonder. Some are bred to him. Others to Cleatham's Pride, Clay Model, Crimson Wonder 4th, and Queen's Crimson. Try to be with us sale day. We will not disappoint those looking for good ones. J. C. Price, field man. Colonel Callahan, auctioneer. Mention Homestead and address for catalog

GEO. BRIGGS & SONS, CLAY CENTER, NEB.

SUTTON, NEB., WEDNESDAY, FEB. 19, '13

WE are listing a number of yearling sows that are sired by the champion, Golden Rod King. Others are by Uneeda Crimson Wonder, Prides C. Wonder, Lincoln Chief 2d and Golden Model 5th. We made no fall sale the past season and have saved every top thing for this sale and the forty offered are select.



UNEEDA CRIMSON WONDER.

We believe we are offering greater value in the lines of breeding we have for this sale than at any time. Everything is bred to Uneeda C. Wonder, Model Wonder, or Queen's Col. We believe we are the best equipped for herd boars that we have ever been. There is splendid value in these matings. Arrange to attend this sale. J. C. Price, field man. Colonels Callahan & Kraschel, auctioneers. Send for catalog at once and mention The Homestead when you write. Address

G. VAN PATTEN & SON, SUTTON, NEB.

CHAS. F. SPRAGUE'S

ANNUAL SALE

DUROC BRED SOWS

AT

INDIANWOLD FARM, LIMA, OHIO,

TUESDAY, FEB. 18, 1913

THE same boars and the same sows that used to produce for Ira Jackson, of Tippecanoe City, Ohio, that big, smooth, growthy type of Duroc, are still in my herd and, since I added his herd over a year ago to my own, when he retired, my effort has been to extend the work begun by him. My task has been "to better the best," and in the offering I have are to be found animals with growth, quality and size combined. The crosses are the Orion, Col., and Ohio Chief families. The animals are bred to farrow in February, March and April to Jack's Friend, Grand Champion Ohio State Fair and first at International; Cherry King, the greatest living sire of the fancy, prize-winning type; Joe Orion 2d, first and third prize winner at the International; and Pal's Prince, three times shown at the Indiana State Fair and never defeated and full brother to the grand champion at Indiana and at the International in 1912.

Will the reader whose herd has not yet reached the highest point of development or perhaps is still a grade herd allow me to remind him of the efforts of the agricultural press, experiment station and college to move us to add to our profits by better breeding of live stock? I believe in this movement and know that every sow in the offering is qualified to help in this campaign for better live stock.

Every animal received the double treatment against cholera before the breeding season and my herd is guaranteed healthy.

Catalogs are now ready. Send name and address. If you cannot attend the sale send bids to Cols. Reppert, Igleheart or Harry Browning, field man for The Iowa Homestead.

CHARLES F. SPRAGUE, Lima, Ohio.

LINGFORD'S GREAT

POLAND CHINA BRED SOW SALE

Will be held in Bradstreet & Clemens' sale pavilion

GRAND ISLAND, NEB., THURSDAY, FEB. 13, '13

50 HEAD, mostly Gold Dust Hadley and Sampson sows. That a sow is bred to or sired by Gold Dust Hadley or Sampson is about all that need be said. Most of this offering are. A few are bred to Revenue Exception, the best young boar that I could possibly find last fall. He is a grandson of Exception. Every one of the sows listed for this sale are the real utility kind. Every man who bought in my last winter sale made money. They will do so again this year, as I breed hogs that make money for all they consume, and they are ready to market at desirable ages. They are the kind that can and do win in the greatest hog show on earth, the Nebraska State Fair. Attend this sale, or send bids to J. C. Price, field man. Col. Z. S. Branson, auctioneer. Mention The Homestead and send for catalog at once. Address

W. A. LINGFORD, DANNEBROG, NEB.

Z. S. BRANSON, Auctioneer.

6TH ANNUAL SALE GRAND CHAMPION CHESTER WHITE BRED SOWS AND SHORT-HORN CATTLE

AMES, IOWA, FEBRUARY 18, 1913

56 SOWS, 3 herd boars, 20 Scotch Short-horns, 5 cows with calves at foot, 6 bulls. Four aged sows, 14 spring and 7 fall yearlings, 31 gilts make up this grand collection of brood sows. Lenora 3d, grand champion sow at 1912 Iowa State Fair, 5 of her gilts, 7 half-sisters and her dam included. Blood of the leading champion sires is represented in this herd. The sows are large, massive ones, with quality, sired by Chickasaw Choice, B. & R.'s Pathfinder, and bred to Hiland Chief and Chickasaw Choice. The second-prize aged boar at Iowa, 1911-12, included. Short-horns have Victorias, Secrets and Narcissus, all straight Scotch. Two herd bull propositions, Iowa Sultan by Scotch Sultan and Juno's Victor by Juno's Heir. Send for catalog which will show you what these good lines are.

Auctioneers, C. C. Evans and H. N. Donhowe. C. C. Carlin, field man.

BARR & RAE - - - AMES, IOWA

LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10

W. J. FINLEY AT HOME

SELL or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

W. J. FINLEY, - HIGGINSVILLE, MO.

REGISTERED PERCHERONS

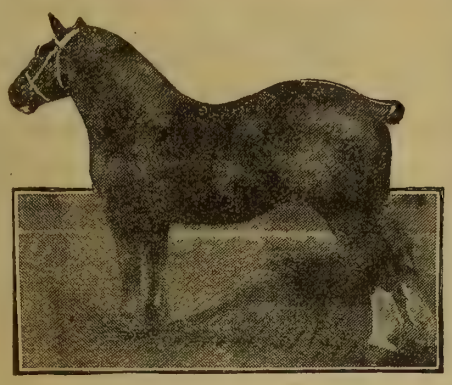
AT AUCTION

AT

FAIR GROUNDS

LINCOLN, NEBRASKA,

THURSDAY, FEB. 20, 1913



THIS sale will include thirty-two stallions and mares, each one selected for this offering and all grown and contributed by the Nuckolls County Horse Breeders' Association. This is not a draft of dealers or speculators' stuff. Everything in this sale is strictly first-class, stallions of known breeding value, others that are very promising. Some of the very best young mares that have been sold at auction this season, either east or west, will be in this sale. It is to the interest of the good horseman to be present. The consignors are Wm. Parr, Frank Davidson, and L. Wall, Ruskin, and J. C. Day & Son, Cadams, and Geo. Barber, Oak, Neb. Mention The Homestead when writing. For catalog or further information address

PERCY BAIRD, Sec'y, Ruskin, Nebraska.

Col. F. M. Woods, auctioneer.

RUEBEL BROS.'

BEST SOW SALE

MARATHON, IOWA,

THURSDAY, FEB. 20, 1913

50 HEAD SOWS: 17 Matured Sows, 17 Fall Gilts and 16 Spring Gilts. By Good Boars and Bred to Good Ones. : :

YEARLINGS and two-year-old sons by Big Orange, R.'s Longfellow, Miller's Longfellow; fall gilts by Ruebel's A Wonder and Price's Giant, and spring gilts by the great Chief Again Price. Sows all big and nice types. A high average of excellence all through. Bred to Ruebel's A Wonder, recently sold to a prominent Ohio herd; Chief Price Again and Price's Giant. Look at this list of sows: Longfellow Lucy 9th by Miller's Longfellow, Mollie Orange by Big Orange, Luella Longfellow 2d, Orange Girl by Orange Chief, three great yearlings by Wide Monarch, dam Wilkes Pride 2d (these are extra choice) and Nos. 35, 36, 37, gilts by Chief Again Price, dam by Miller's Chief Price. Get a catalog of this great offering, it will tell you of sows you can use if you want good ones. Cols. H. S. Duncan and Ira Cottingham, auctioneers. Ray L. Gribben, field man. Mention The Homestead and write

RUEBEL BROTHERS, Marathon, Iowa.

JAMES LAWLER'S

MILLER'S CHOICE CHIEF PRICE A

POLAND CHINA BRED SOW SALE

will be held at farm one-half mile south

CLARE, IOWA, FEB. 22, 1913

50 HEAD of choice sows and gilts in strictly thrifty and healthy condition. A big-type herd with two extra good boars at its head. Miller's Choice not only carries an enviably rich pedigree, but he is in the class with the biggest and smoothest herd boars. Chief Price A. by Chief Price 2d, dam Mollie A. by A Wonder 107353, Fesenmeyer's boar, is as well bred and also a big smooth one which sires class. Giant's Equal by Equal's Giant by Long King's Equal, out of son by D.'s Longfellow and carrying three Chief Price crosses in his dam's pedigree is the young service boar. The sows will not be loaded with fat, but will be in good going condition. Miller's Choice sired some extra good gilts that will be sold. They are big, long and with good feet, backs wide, hams full and deep bodied. You can buy right here. Make your own prices. Get a catalog and then plan on being at the sale. Good railroad facilities for getting to and from sale. Make either Clare on M. & St. L., or Barnum on I. C. J. A. Benson, auctioneer. Ray L. Gribben, field man. Mention Homestead and address

JAMES LAWLER, Clare, Iowa

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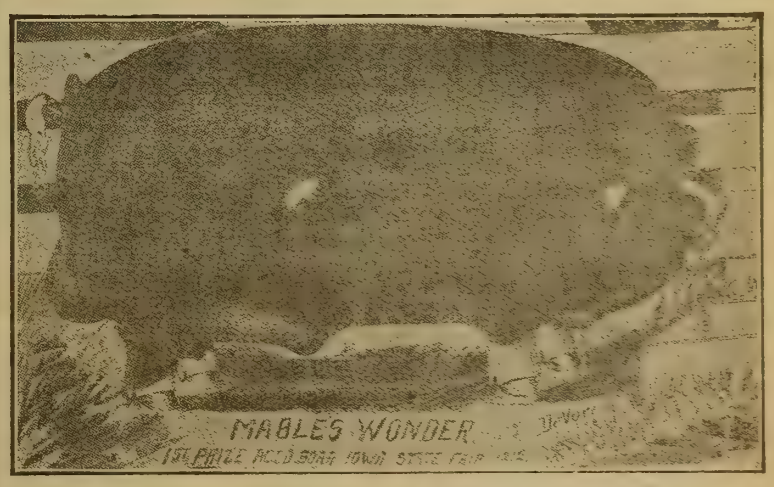
SENSATIONAL, BIG-TYPE, PRIZE-WINNING

POLAND CHINA BRED SOWS

MANNING, IOWA, FEB, 21st

50 HEAD---Unquestionably the Greatest Offering of the Year---50



25 SOWS BRED TO THE SENSATIONAL 1,000-lb 1st. PRIZE IOWA STATE FAIR BOAR, MABLE'S WONDER

EVERY breeder and every man who has seen my offering say it is the greatest lot of sows that will go through a sale ring this winter. These are bred to **Mable's Wonder** the 1,000-pound boar; **Long Jumbo**, the 920-pound boar; **Long Price** by Chief Price Again and **Perfect Wonder. Ten of the greatest aged sows** that were ever sold in the West. **Fifteen spring and summer yearlings and fifteen fall yearlings** sired by the most noted big-type boars today in the West. Write for my great catalog at once and mention The Iowa Homestead. Col. H. S. Duncan, Auct. M. T. White, field man for Homestead. Address

R. W. HALFORD, Manning, Iowa.

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Write Us for Our Liberal Terms

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You can buy a carload of Building Material from us without paying us one cent in advance. All we want to know is that the money will be paid us as soon as the material is received, unloaded and checked up. Our terms are more liberal than anyone else offers.

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Yes, we mean smashed. Absolutely busted to pieces. That's our policy. We quote prices on lumber that will positively save you big money. If you will send your lumber bill we will send you a freight paid estimate that will mean a saving to you of from 30% to 50%. Every stick is absolutely first class, brand new and fully up-to-grade such as you would buy from any reputable house in the United States.

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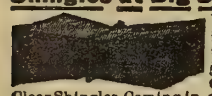

We have a special lot of 1,000,000 5 to 2 Common Clear Shingles Coming in, on which we are making an exceptionally low price of $2.47. Other grades at lowest prices.

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Lot MS-39. Four panel painted door, size 2 ft. 6 in. x 6 ft. 6 in. 1200 in stock. A high quality door for the price. This is only one of our many special bargains. Our grand Building Material Catalog and Bargain Sheets will show a full line of Inside Millwork of all kinds.

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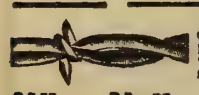
Smash Go WIRE and FENCE Prices

BARB WIRE Less Than 2c Per Rod



New galvanized, heavy weight barb wire, put up on reels about 100 lbs. to the reel. Lot 2-AD-28 per 100 lbs. $1.95. Galvanized barb wire, light weight, first grade, best made, put up exactly 80 rods to reel, 2-point barbs. Lot 2-AD-28, per reel, $1.40.

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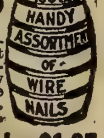

10,000 kegs, put up 100 lbs. to the keg mixed, all kinds together, regular nails, such as made by nail factories. Lot 2-AD-33, price per keg. $1.50. 1,000 kegs of 10 penny-weight regular new wire nails, 100 lbs. to the keg, while they last, per keg, $1.85. Write for our free Wire and Fence Catalog. Gives valuable information to any land owner. Fill in the coupon below.

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It is suitable for fences, stay wires, grape vines or for any ordinary purpose where wire is used. This galvanized wire is irregular in length—it ranges anywhere from 50 to 250 ft. $1.25 is our price for No. 6 gauge. Other sizes in proportion.

15c Per Rod Buys Best Hog Fencing

Here is another one of our remarkable bargains. A high grade, strictly perfect fence made of No. 9, 11 and 12 wires, perfectly adapted for hogs and general farm purposes, 26 in. high, square mesh, put up in suitable-size rolls. Lot 2-AD-31, price per rod 15c. Other heights in proportion. Staples, 100 lbs. $1.75.

BEST QUALITY PREMIER, MICHAELSON READY Mixed House PAINT

$1.05 PER GAL.

Our paint department is under the personal supervision of Mr. V. Michaelson, for 30 years the foremost paint man in America. His picture has appeared on over 8,000,000 cans, and his name is known from ocean to ocean. Paint of quality is his specialty. Every gallon has our strongest guarantee. Our Ready Mixed Barn Paint at 67c a gallon will outlast any similar paint produced. If you want quality paint, write us; or write to Mr. Michaelson if you prefer. Finest, most valuable paint book ever published sent FREE. Send coupon.

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Send me free of cost the following catalogs, (Place an X mark in square opposite the catalogs you desire)

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- ☐ Plumbing & Heating
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County..... *State*.....

R. F. D...... *P. O.*.....

EXPLANATION

Why We Are Called the "Price Wreckers"

CONSIDER what becomes of the stock of goods when a manufacturer, jobber or big retail merchant goes bankrupt, or "busted" as the saying goes. In the year 1911 ten thousand merchants met with financial distress—that's why the Chicago House Wrecking Co. exists. If the stocks offered are sufficiently large, if the goods are new, clean and desirable, they find their way naturally to our 40 acre plant for distribution, at a small added profit to our hundreds of thousands of customers, who, in this way get wonderful bargains.

In many cases our prices do not represent the original cost of production. There is not another concern on earth that can meet our prices, simply because no other concern has the buying and economical distributing facilities which we enjoy. It is only natural therefore, that we have become known as "Price Wreckers".

Where Your Dollar Does Double Duty

Every time you buy from us, your dollar takes on an increased purchasing power. We are the safety valve between the public and high prices. We recognize no Trusts or Associations—our methods are along original and unique lines. We are not plodders—we are merchants in the fullest meaning of the word, and the wise public have not been slow in realizing our position in the world.

Our great plant at 35th and Iron Sts. is a Mecca for the people of Chicago and surrounding country. Thousands of visitors from every part of the country make a yearly pilgrimage to our institution, and buy their yearly supplies. Are you getting all the benefit that you should from this excellent opportunity? We urge you to learn more about the wonders of our plant, and the opportunities that we afford when you deal with us. You get full value for your money. There is nothing fanciful about our methods—we are just straight, clean business men.

WE SELL PRACTICALLY EVERYTHING

Our stock includes practically "everything under the sun". It's in truth, from a needle to a locomotive. No matter what your vocation, or what position in life you occupy, or what your business, or how great a merchant you are, you have use for us, and we have the goods that you can buy from us to a decided advantage. The quicker you learn to recognize this fact, the sooner you will be "putting money in your pocket".

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This is Our House No. 6A.

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Great care and study has been given all our Plans. Economy is the watch-word both in materials and construction.

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Our Binding Guarantee both as to quality and quantity goes with every sale.

Write us for letters from people in your vicinity who have bought from us. We have thousands of unsolicited testimonials.

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If you intend building, you will lose money if you don't write us at once. Tell us what you want. We will answer you promptly and give you valuable information regarding building. Send rough pencil sketch showing the kind of house you want. We will make you a freight paid price that will save you big money on material necessary to build same. Every stick first class.

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Our Book of Plans contains 100 Designs of different kinds of buildings. Everything from a 2 room Portable House for $147.50 to the finest kind of a 10 room residence.

Houses are completely illustrated showing floor plans, prices lumber, millwork, plumbing, heating, paint, etc. And it's free.

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Galvanized Steel Roofing is Fire, Water and Lightning Proof

We bought 20,000 squares of this Corrugated Iron Roofing, which we offer at this remarkably low price. It is new, perfect, and first-class, but light weight. The sheets are 22 x 24 in. 1¼ in. corrugated. Our price of $1.25 per sq. is f. o. b. cars Chicago.

When ordering this item, specify Lot No. AD-700. This is not galvanized, but black steel roofing.

$1.25 per 100 sq. ft. buys best steel roofing

Write us today for our special FREIGHT PREPAID PRICES on new, galvanized roofing. We are offering prices lower than ever before offered in the roofing business. Galvanized roofing at $2.50 per square and up. Ask for free samples.

We can furnish anything needed in Roofing, Siding or Ceiling.

62 CENTS PER 108 SQUARE FEET BUYS BEST RUBBER SURFACED "AJAX" ROOFING

Here again we show the lowest price ever known for roofing of quality. This smooth surfaced roofing we are offering is our one-ply "Ajax" brand, and the price includes necessary cement and caps to lay it; this price is f. o. b. Chicago; at 75c per square, we pay the freight in full to any point East of Kansas and Nebraska and North of the Ohio River. Prices to other points on application.

Roofing is guaranteed to wear as long and give as good service as any Ready Rubber Surfaced Roofing on the market. It is put up in rolls of 108 square feet, and contains 3 to 4 pieces to the roll.

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Send Us Today Your Complete List of Lumber and Building Materials for Our FREIGHT PAID PRICES.

$8.50 for a High-Grade, Sanitary, Complete Closet

Syphon acting, vitreous bowl, hardwood seat and cover. Low down, latest style, copper lined tank. Outfit is Lot 5-AD-105.

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The lightest, strongest and most compact Gasoline Engine ever produced. Thirty days' free trial. It is 4-cycle, self-contained, horizontal, hopper cooled; on heavy wood skids, with battery box, shipped complete, wt. 250 lbs. Has automatic governor. Easy to start. Send for Special Gasoline Engine Catalog.

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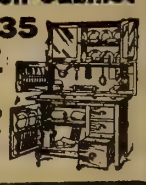
$30.00 VALUE. Every Good Feature Known. See our free big book.



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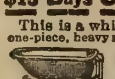
Fill in the coupon.

$13 Buys Complete BATHTUB



This is a white enameled, cast iron, one-piece, heavy roll rim bathtub; fitted with the latest style nickel-plated trimmings, including Fuller double bath cocks for hot and cold water, nickel-plated connected waste and overflow, and nickel-plated supply pipes. It is 5 ft. long and is good enough to answer the needs of any man. Lot 6AD-101.

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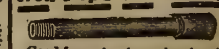

Good iron pipe in random lengths complete with couplings, suitable for gas, oil, water and conveyance of all liquids; size 3-8 to 12 inches; our price on 1-in. per foot 3c; 1 1-4 inch at 4c per foot. Complete stock of valves and fittings. Send us your specifications.

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We bought at New York Auction an enormous stock of high grade, brand new rugs and floor coverings. 75c buys Axminster Rugs of Extra grade This is a sample of our money-saving bargains. Write for our complete Free Rug Catalog, showing actual colors and designs.

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The Iowa Homestead

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VOL. LVIII. NO. 7 DES MOINES, IOWA, FEB[illegible]13, 1913. WHOLE NO. 2888

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Often a good car is put out of business simply because it was not properly operated or taken care of. Sometimes just one little false move, on the part of the driver, will put a car out of commission for life. We all live and learn.

So we got up an Overland book on the fundamentals of proper driving, operation and care. It will help every motorist in America. It tells you exactly how to run a car; when, where and how to lubricate it; how to make adjustments, etc., etc.

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We want you to read these books for a selfish purpose. We know this valuable information, clear explanation and practical advice, in addition to helping you purchase and operate your car, will only go further in proving to you our high standard and great efficiency.

For in the Overland you get more real car for less money than from any other manufacturer in the world.

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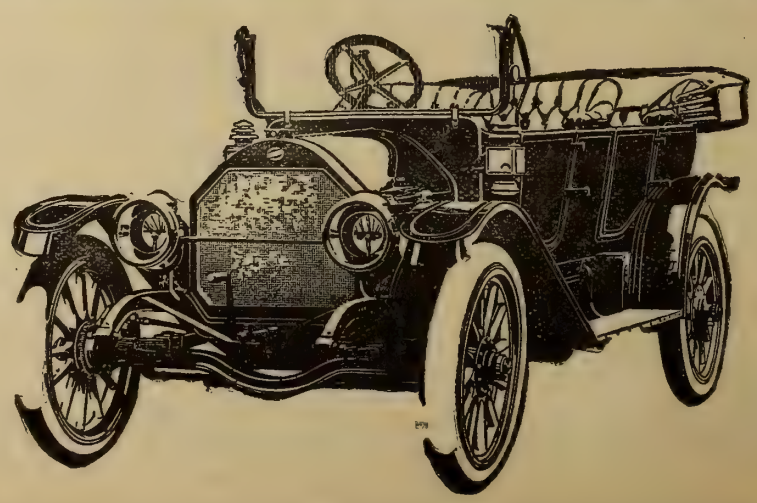

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Completely Equipped

Remy Magneto
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Mohair Top and Boot
Clear Vision, Rain Vision Wind-Shield
Prest-O-Lite Tank

The Iowa Homestead

DES MOINES, IOWA, THURSDAY FEBRUARY 13, 1913.

Improving Our Draft Horses By Means of Colt Shows

By W. A. Freehoff, Dane County, Wisconsin.

IN many communities of the middle West the raising of high-class draft horses is being encouraged by the holding of colt shows. G. W. Grigsby, president of the Iowa Draft Horse Breeders' Association, organized one of the first colt shows held in that state. He is the head of what is known as the Madrid Colt Show Association, the members of which annually exhibit a superior lot of foals of their own breeding. To provide a suitable premium fund, to suitably pay expert judges, and to meet other necessary expenses, all stallion owners are regularly charged a membership fee of ten dollars, while the merchants of Madrid have always responded liberally to encourage the production and presentation of high-class draft colts. The colts are classified as to breed, six classes provided in all and eight premiums to the class. This association holds its show in the month of September, or just before the colts are weaned.

Last spring a very successful colt show was held at Glenwood City, Wis. It was the first show of its kind ever held in that section, but in spite of the poor condition of the roads and the fact that the colts were not appearing at their best at that time of the year, a splendid showing was made. Three Percheron stallions are now owned in that Dunn county town; when they first arrived it was uphill work to get the settlers to patronize them, but now the grade sires are being discarded, the farmers in the vicinity choosing to use nothing but pure breds. Colt shows have proven to Dunn county farmers that the pure-bred stallion is the only one to use. The horsemen and farmers living in and near Glenwood City expect to hold two shows each year.

James G. Boyd, a prominent Milwaukee horse breeder, is of the opinion that a showing of draft foals might well be made a feature at many or all of our fairs. He believes that the fair association should offer greater inducements to the breeders to present their weanling and yearling colts at these agricultural expositions. He is sure that once the foals get the attention in this country they deserve that the breeders of the United States not only could, but would, raise as good horses as do the horsemen of France. James McLay, one of America's most noted Clydesdale men, believes that colt shows can be successfully held in communities in which a number of the farmers own good mares. A. R. Ives, of Walworth county, Wis., has found that colt shows held in connection with fairs have helped along the horse industry and believes separate colt shows would have much the same influence.

These instances of colt shows, and the opinions of experienced breeders, hint at the possibilities of the colt show. Many sections of the country are successfully working out the plan.

Through the efforts of Dr. A. S. Alexander county horse breeders' associations are being organized throughout Wisconsin. Previously each breeder has been acting for himself and taking comparatively little interest in the operations of his more successful neighbors. In this way individual breeders have succeeded in isolated instances, but state-wide horse breeding has made slow progress.

Each stallion in public service in Wisconsin is now correctly designated as "pure bred," "cross bred," "non-standard bred," "grade," or "scrub." Organization among breeders has made easier the enforcement of the stallion law, and in each county a better understanding of the correct principles of horse breeding has been noted where horse breeding clubs have been formed. Through these organizations it is also possible, in fact advisable, to hold colt shows once or twice a year, thus graphically demonstrating the differences between certain types of mares and stallions used. It is through such county organizations rather than through regular colt show associations, good though the latter may be, that the colt shows should be held. The colt shows are not necessarily the determining factor in horse improvement, they are simply an important and necessary factor in connection with other co-operative work. Each county horse breeders' association, where already organized, should at once take steps to hold a colt show. In those counties where the breeders are not already organized, organization will be found advantageous. The horsemen of any community should also insist that colts be well represented at the county, district, and state fairs.

But in order to have successful colt shows the colts must be raised and fitted in the correct manner. If the colt show does even that much its existence is justified.

There is a possibility of making the county breeders' associations societies for selling the colts. The same organization which shows the foals would list the colts in that county, with adequate detailed information of interest to a prospective buyer. Fees charged for this listing would defray the expenses of corresponding and advertising. By means of these colt lists a prospective buyer would know how many animals there are in a community and whether it would pay him to make a trip of inspection or not.

To raise a good foal, worthy of exhibition in a colt show, is a somewhat difficult proposition. The mare, according to recognized authority, should be

(Continued on page 13.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

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Des Moines, Iowa.

A WORD OF THANKS.

The week which has elapsed since The Homestead building was partially destroyed by fire has been a strenuous one. There has been a multitude of details attendant upon bringing order out of the chaos wrought by the flames, effecting the beginning of a reorganization, and planning for a bigger and better Homestead building and equipment for the future. The week has been one of commingled setbacks, offset by the cheering and encouraging words of friends and patrons, and advances, made possible by the support given in such whole-souled and whole-hearted fashion by all those who have been called upon to lend a hand. At last, with the work of preparing another week's paper practically completed, I find time to write this message of thanks for the commending and consoling words from hundreds of friends and subscribers, whose cheery letters have made smooth many hard and difficult places. When the confusion and strenuous rush have long since disappeared, to be only dim and indistinct fragments of memory, I shall continue to treasure most vividly in mind the consolations of friendship and the inspiring words and letters of those whose good will, so heartily expressed, has minimized the difficulties and mitigated the worries attendant upon last week's catastrophe. To all who have written expressing their sorrow and sympathy I can only say, in all sincerity and humility, "I thank you, more than words can tell."

Some of the letters received during the past week are so inspiring, so full of the real, genuine spirit of friendship, that they deserve to be passed along for the appreciation of all. In the belief that such good things should be shared with my readers and friends I print herewith the letter of Mr. George A. Davies, a valued subscriber, Glenwood, Iowa. Mr. Davies writes:

> Glenwood, Iowa, Feb. 11:—I have just read of your great misfortune in the burning of The Homestead building. I want to say to you that I feel very sorry indeed for you and your family and all connected with The Homestead. Having once been completely burned out of my business building, implements, tools, material and all, a clean sweep, I know how to sympathize with you. I am glad to know that with your accustomed pluck and energy The Homestead will be rebuilt on a larger scale than ever. Don't have any fears; your subscribers will wait on you till the last day in the morning for The Homestead,—the best agricultural paper I ever saw.
>
> Very truly yours,
> George A. Davies.

Another letter which brought encouragement on a particularly trying day was the one written by the Grand Old Man of agriculture, Mr. F. D. Coburn, secretary of the Kansas State Board of Agriculture, a man whose friendship is sweet and precious beyond the power of wealth to compute or measure. Secretary Coburn writes:

> Capitol Building, Topeka, Kans., Feb. 10:—I am greatly distressed to just now read in The Homestead of the fire that destroyed your publishing plant. I know you will build on the ruins a much greater and better one, but in the loss and annoyances the calamity brings to you, you surely have my sincere sympathy; also my full confidence.
>
> Cordially,
> F. D. Coburn.

Of the many hundreds of letters received it is impossible to print even brief extracts from all, but I cannot refrain from giving the greater part of the one written by Col. George P. Bellows, the veteran auctioneer of Maryville, Mo., whose word is his bond and whose career is one of the prides of his state and the entire grain belt. Colonel Bellows writes:

> Maryville, Missouri, Feb. 11:—Just before leaving home yesterday I received The Homestead containing an account of the loss you had sustained by fire. I am writing to extend to you my sympathy. I trust you were well secured by insurance. However, there are things in a business like yours that money cannot well compensate for. Knowing your courage and good sense under trying circumstances, together with the standing and stability of your publications, I feel that the loss and temporary inconvenience will be shortly overcome by the better home of modern construction that will rise, as another monument to your energy, on the grounds of the destroyed building.
>
> Yours truly,
> George P. Bellows.

For all such letters and all such encouragement, I repeat, "I thank you." They are expressions of real, lasting friendship, milestones on the way to ultimate and complete happiness and contentment.

The writers of these letters, together with all my subscribers, friends and patrons, will be pleased to know that we are rapidly making progress in the work of reorganization. Already the partially destroyed Homestead is again under roof, the second and third stories (a week ago open to the ravages of winter, bleak, barren and desolate) are once more enclosed and a large force of carpenters is at work, day and night, making The Homestead building as good as before. In addition, the plans for the new and modern building which I propose to erect are well under way and before the first snow falls next winter I hope to have the new structure completed, ready for occupancy. Already new equipment has been ordered for all the mechanical departments, to be installed immediately upon its arrival, while a new perfecting press will be added coincidental with the occupancy of the new building, making the Greater Homestead plant rise triumphant over last week's catastrophe. A few more weeks of co-operation on the part of subscribers, patrons and friends, together with a little patience if The Homestead is a day or two late, then the misfortune will have completely disappeared, the fire will be only a faint memory and the future will be roseate, like the dawn of a midsummer day.

Most sincerely yours,
James M. Pierce,
Publisher The Iowa Homestead.

FOR A BETTER DRAFT HORSE SUPPLY.

Good horse flesh elicits favorable comment and excites admiration wherever it is shown. Be it in the tan-bark circle, on the country road, or under heavy work in the field the sight of a team or several span of powerful broad-backed, large-barreled, capacious animals of the desirable type and conformation invariably attracts and retains the attention of the passer-by. The educational value of live stock shows and fairs results from this tendency on the part of the average person to stop, look and listen (in case any of the other bystanders are not talking horses) whenever he sees horses that possess high-class characters and quality. If you ever attended a state fair or an extensive horse show you will the more fully appreciate what we are driving at.

There can be no question but that the American horse breeding industry has realized marked impetus and has been able to materially improve in consequence of the popularization of better blood and approved types through the medium of show-ring exhibitions. The breeder farmer that sees a fine string of draft animals at a show thinks that he would like to raise some horses of like quality and merit. Oftentimes the thought is mother to the deed to such an extent that in a short time he is the owner of a couple of high-grade or even pure-bred mares that he serves to a pure-bred stallion of the same breed. The resultant colt crop is of superior quality and sells for top prices on the central market.

It has been in the way of preaching the value of better blood and modern type by actual appeal to the eye of the onlooker that the leading six-horse teams of America have accomplished a world of good in improving the home draft-horse industry. These "boosters" have been unique in so far as they could not speak, but in their case actions and appearances penetrated much farther than words could possibly do. To see the four or five teams of sixes swing and wheel into the ring at the International Live Stock Exposition is to quicken and thrill the blood of even the most sluggish spectator. Each six composed of animals of the same type and conformation, of similar quality and markings, of identical animation, life, and action merits the applause which it draws forth from the crowded arena.

It was in 1900 that the first class for six-horse teams was called at the International to compete for the graduated prizes. At this meeting George Moore, Ontario, Canada, captured the premier award on a Clydesdale six which he subsequently sold to Morris & Company, Chicago. For the next three years the Morris Clydesdales carried off the top honors while in 1904 the gray Percheron six of the Pabst Brewing Company, Milwaukee, Wis., won the blue ribbon. At the following three shows the gray six of Armour & Company, Chicago, which carried a preponderance of Percheron blood, won the judges' verdict while the subsequent two seasons found the Morris six-horse team again in the van. During the last two years the Morris six has maintained its place on the throne and today ranks as the finest sextet of draft horses that are driven and hitched in three pairs in the entire country.

It is frequently necessary to substitute another younger animal of better quality for one of the horses in the team and on this account the makeup of the six often changes from year to year. The victorious Morris six at the last International consisted of six pure-bred Clydesdales, Archie, Robbie, Hector, Drew, Malcolm and Walter by name. Of the three teams the wheel team is naturally composed of the heaviest and strongest animals. Ordinarily the weights of the best wheel teams will range from 4,000 to 4,600 pounds, while the swing team will average from 3,800 to 4,200 pounds in weight. The lead team is made up of the lightest animals that weigh in the neighborhood of 3,600 to 3,800 pounds.

At present in the show ring the sixes are driven to empty wagons by expert drivers, who skilfully manipulate their charges through all sorts of difficult maneuvers in the limited space of the show ring. With wheel rubbing on wheel and with the hubs practically interlocked the six-horse teams dash and prance around the circle showing to advantage the style and action, vim and vigor of the animals. The sight of these horses that average from 1,700 to 2,300 pounds in weight agilely and gracefully dancing over the tan bark is inducive to admiration on the part of the onlookers. Farmers, breeders and horsemen bump elbows in giving the "glad hand" to these "kings of the draft breeds."

Apparently there is only one suggestion that could be made which might make toward an improvement in the exhibition of these powerful draft animals. American breeders and exhibitors have been severely criticised for their tendencies toward overfitting show animals. The British horsemen claim that the Americans aim to conceal defects and blemishes by placing surplus layers of fat on these exhibition horses. Our foreign cousins evince the "show me" attitude that is assumed by some of the native farmers who see the six-horse teams in the ring when they say: "There is no doubt but that those horses show up to advantage in the exhibition arena, but what would they do under field conditions where they were put up against a good, stiff day's work at heavy hauling or teaming?" It would, therefore, be of great advantage to the draft-horse industry if these animals could be subjected to some test of strength and endurance at the time of their appearance in the exhibition ring. If these horses could stand up against the strain of rigid test they would strike a final knock-out blow for the advance and upbuilding of the pure-bred draft-horse business throughout the width and breadth of the United States.

DO NOT DELAY.

Five of the best and most practical papers published may be obtained through our splendid Red Letter Subscription Offer at practically one-half the regular price. If you will remit $1.25 to The Iowa Homestead, Des Moines, Iowa, at once we will see that you receive a full year's subscription to each of these five papers: The Iowa Homestead, Kimball's Dairy Farmer, The Woman's World, Kansas City Weekly Star and People's Popular Monthly. No better combination of reading matter at such a reasonable rate could be secured. We urge that you avail yourself of this unparalleled offer at once, so that the largest and best issues of each paper may reach you promptly at this season of the year when every member of the farm household has the most time for reading.

FIRST HAND SILO INFORMATION.

The introduction of the silo has in a very large degree revolutionized feeding methods as applied to almost all classes of live stock. It has meant the extension of summer conditions into the winter months. In other words, a man who has a well-filled silo is able to operate in his feeding methods in absolute harmony with nature's laws. As a result the cost of producing live stock is lessened, while at the same time healthfulness and stamina are increased.

A glance through "Modern Silage Methods," a volume recently published by the Silver Manufacturing Company, of Salem, Ohio, will demonstrate to the non-believer that the introduction of the silo is based on sound economic principles. In this book will be found many facts and figures which show the relative feeding value of ensilage as compared with the corn crop fed in any other way. It will further show that corn is not the only crop from which excellent ensilage may be made.

A summary of the principal experiments that have been conducted at the various stations in feeding all classes of live stock is given in the volume referred to and in addition an illustrated description of the various types of silos that are being placed on the farms of the corn belt. The compilation is given showing the amount of material required to construct the various types of silos, thereby making the book well worthy the perusal of those who are contemplating the adoption of this method of feeding live stock. This volume will be of special helpfulness to those who are now feeding ensilage, because the compounding of rations is taken up in great detail and such combinations of feeds as are recommended may be used with safety, because they are based on the results of scientifically conducted experiments. The volume is in reality a feeder's and dairyman's guide—a guide indeed to the goal of success for those who are able to assimilate new knowledge and use it in their daily affairs.

BUILDING UP THE SOIL.

So much has been said in recent years through the agricultural press and at farmers' meetings about soil fertility that those who read or listen may be becoming tired of the subject, but like every good thing it will bear repeating, and to those who have not given the subject any thought it may be surprising to know how much may be done with what is already on the farm, or may be put there with little money expense to preserve, or increase, the farm's fertility.

Without thought we crop our farms year after year, selling the crop from the farm, and putting nothing upon it to replace the elements of fertility taken off by the crop. To be sure, this is not the case where the crops are fed to live stock on the farm, and they only sold. Where this is done the fertility is maintained and upon dairy farms where not only the crop raised is fed, but also much feeding stuff purchased from the outside, the fertility of the farm is increased; but so many farmers sell the whole crop raised and put nothing back that the farm is continually being wasted. Even where the soil in its native state is thin and lacking in fertility it may be greatly increased, or continually improved, by a judicious use of fertilizer, either produced on the farm or obtained from other sources.

Though a steady building up of the soil is all that the strongest advocates of increased productiveness argue for, a soil may be so improved in a single, or at least in two seasons, as to show a marked improvement in the crops produced. As an instance, a soil that had for years produced but fifteen to twenty bushels of corn per acre was made in a single year, by the application of fifteen wagon-box loads of stable manure to the acre, to produce sixty-five bushels and fifteen pounds of corn as the first year's crop.

If the farmer can see the profit there may be in buying commercial fertilizers to apply to his soil, he first wants to find out the elements in which his soil is deficient; if in phosphorus, he does not need to buy an expensive commercial fertilizer, but the application of a few tons of ground rock phosphate, especially if he uses it as a top dressing upon clover and turns it all under, or mixes it with his stable manure as produced, it will greatly improve his farm at very little money outlay. If the soil is sour, a little raw ground limestone per acre will overcome that and, in a certain sense, set free the plant food contained in the soil.

Too many farmers, besides selling off most of their soil through crops, are wasteful of that portion of it that is retained upon the farm so far as preserving it for fertilizing purposes is concerned. Every farmer should make it a point to preserve every particle of manure and let no vegetable matter go to waste that may be used to increase the manure pile. Instead of letting a pile of straw remain in the field and rot down, it should be drawn to the barnyard and, if not used for bedding in the stables, be tramped over by the stock and in this way prepared to be drawn to the fields and replace some of the fertility that would be otherwise removed.

But there are farms that can be made to produce more than they now do without applying manure or buying any fertilizers or raw soil fertility in the shape of rock phosphate or limestone. We know of one instance where a farmer bought a forty-acre field that was in oats at the time he purchased it. The crop was light. When cut the burs were about as thick as the stubble. It had been corned until it was about exhausted and the burs allowed to have their own way. He mowed the burs carefully before seeds formed, then plowed shallow and drilled in wheat and timothy. The following spring he sowed clover, five quarts to the acre. It was mowed twice a year for hay and seed. This treatment about finished the burs. It was then pastured for two years, plowed deep in the fall and planted to corn. It yielded fifty bushels that year and forty-five the next. The following year it was sowed to oats and clover and clipped in the fall to prevent clover from seeding and to catch any stray burs that might be left. The next year a heavy crop of clover hay and seed was removed and the clover haulm put back on the land with a spreader.

The following year, 1909, corn was planted and the yield was sixty bushels and the ground was perfectly clean. Those who own land that will not produce clover can try cowpeas. If it seems too wasteful to plow the whole crop under, they may be harvested, threshed and the straw put back as was the haulm in the case cited above, or the crop may be fed out and the manure carefully husbanded and drawn to the fields.

A little thought and a little work will keep a farm from "running down," in fact, will increase its fertility.

ROAD BUILDING IN SCHOOLS.

Regardless of the immediate specific results in the various states the good roads crusade now in progress can hardly fail to do good. There is a general feeling that, whatever may be the plan decided upon for the future, there has been enough dilly-dallying in the past and that strong and united efforts are now necessary. These efforts may take different forms, but the reports from practically every state in the grain belt show that the people are waking up to a realization of the fact that money, rather than more laws, that determination, rather than more conferences and conventions, are necessary in order to bring about the era of good, permanent highways, for which we are all devoutly hoping.

Not the least pleasing of all the reports is the one which comes from Missouri and which is unique in that it not only incorporates the planks of a one-mill state road tax levy and the obtaining of federal aid, but also a plank in favor of the teaching of road building in the public schools. Here is a work upon which many millions of dollars are annually expended and yet the extent of the public's ignorance on the subject is lamentable. It is not necessary that the rank and file of the public should become expert road builders, but the best results will not be obtained until the people themselves are conversant with the fundamental details of good highways and are intelligent enough to discern between good legitimate plans and bogus ones. Starting with the pupils in the public schools is beginning the road training none too early. Splendid results have been obtained by the campaign of the good roads trains run by various railroads, but the gospel comes to adults who would better understand it and more readily practice it if they had been thoroughly grounded in the subject in their younger days. Teaching r ad building in the public schools will not build good roads, but it will bring about the era of good permanent highways sooner, for it will develop and crystallize public sentiment and arouse public discussion, which is necessary if any crusade, no matter how good and how necessary, is ultimately to succeed.

AN OPINION ON PLOWING.

An Illinois subscriber in the following communication outlines some of the points that must be kept in mind in the plowing of land:

In the work of plowing much depends on the character of the soil and the crop to be grown, and to be sure as to what is good plowing depends somewhat on the time of year as well as the character of the soil. Should the land be a very heavy clay, with a clay subsoil, I try to have the furrow slice stand on edge as much as possible, lapping on one another like the clapboards on a house. This method leaves an opening under each furrow that acts as a drain, giving the upturned soil a chance to drain, and in the spring these furrows will dry out very quickly, giving a good chance for harrowing a fine seed bed. On light soils this lapping the furrow slice is not so important, as naturally light soil has good drainage. In spring plowing for potatoes or other root crops I like to have the furrow slice turned flat over, and plow deep, because the sod or litter or whatever is plowed under will rot quicker and is better hidden from the direct sunshine and, of course, we will not lose so much of that most valuable ingredient of fertility, ammonia (or nitrogen).

As to laying out the lands, that depends on the kind of soil. In a light soil, with a good drainage subsoil, the method of going around and around the field is as good as any and does away with the dead furrow, but on heavier soils, for spring plowing, ridges thirty feet wide, fifteen feet each side of the center, which is the crown of the ridge, are all right.

The width of the furrow is governed by the capacity of the plow and the width desired, and can be readily adjusted by the clevis on the beam. Many farmers regulate the depth of the plowing with this clevis, but I prefer to adjust the up-and-down clevis so the team will draw the plow on the bottom, as described above, and this will usually give a four or five-inch furrow. Should a deeper furrow be required, regulate it by the short chain connecting the whiffletrees with the plow; shorten it for shallow plowing and lengthen it for deep plowing. Should this chain not be long enough to allow the depth that I want, I lengthen out the traces rather than change the draft at the clevis on the plow beam.

Many will question the advisability of plowing in such a manner that the furrow slice tends to stand on edge. While theoretically this subscriber is right, yet practically few of us can afford in this day of high-priced labor and high-priced land to take the time to plow furrows so narrow that they will stand on edge. This idea of using narrow plows so that furrows can be stood on edge is carried to extreme in European countries, but it must be remembered that with our fourteen and sixteen-inch plows we are able in this country to produce in some instances as much as six times the amount of wealth per man that is produced in some of the older countries. We therefore hold the opinion that under ordinary circumstances some other method of draining the land must be worked out than that which requires the plowing of narrow furrows.

A HIGH RATING FOR SWEET CLOVER.

A subscriber, Henry Stewart, of Whiteside county, Ill., is a staunch believer in the value of sweet clover when used as a pasture grass or as a catch crop. Mr. Stewart's experience is briefly summed up in the following communication:

To say that sweet clover as a pasture grass is superior to all other legumes might be hard to substantiate. But to say that sweet clover has characteristics of superiority over all other legumes is not hard to prove.

The first thing in the early spring, sweet clover asserts its superiority in its rank early growth, which usually affords good feed several days earlier than most anything else that grows. Then again, in its tenacity and endurance to grow and keep growing when most other legumes have suspended business its habits are remarkable.

In seasons of severe drouth, when other legumes have quit and are dry and brown, sweet clover and alfalfa are sending their roots deep into the moist subsoil and the portion of the pasture planted to either of these is like an oasis in a desert and are furnishing green and succulent feed just at a time when it is the most needed. While alfalfa may equal sweet clover as a drouth resister, it cannot stand wet feet, and a little water puts it out of business. Sweet clover will stand flooding and will equal alsike in the amount of water it will live and thrive under. Another element of superiority is its ability to endure hardship. While alfalfa will not endure close pasturing you can feed sweet clover almost into the earth and still it will grow and do business. Another element of superiority over either alfalfa or red clover is the absence of bloat when stock are gorged on its rank growth. The bitter element of the plant, which all stock must first learn to relish, is also the element which assists digesting and prevents bloating when stock are gorged upon it. The uninformed may say that stock will not eat enough of it to bloat, but this is not true. When the appetite is once formed for sweet clover you no more have to coax the cow, the horse or the hog to fill himself with it than you have to coax the old tobacco chewer to take tobacco.

I am a grower of sweet clover, both as a pasture grass and as a catch crop. Each year we sow from fifteen to twenty acres of sweet clover with oat seeding. After the oats are harvested the sweet clover comes on in the stubble, and if the conditions are favorable it makes a rank growth of most excellent fall and winter feed, or a cutting of most excellent hay can often be secured in September.

The next spring the rank growth of clover may be pastured off, or Professor Hopkins says, in an Illinois Experiment Station bulletin on legumes, that he knows of nothing equal to the rank growing sweet clover for green manuring. The only expense is in the seeding, and I know of no catch crop that will, with the same expense, equal it in returns. Sweet clover has the characteristics to recommend it alike to the farmer who has hard sliding to raise any egume and to the farmer with soil dapted to either red clover or alfalfa, and is worthy a place in any pasture.

Sweet clover is a short biennial. For permanent pasture it should be re-seeded he first winter or early spring, and if pastured so close as to prevent its seeding it should be re-seeded every spring.

Instances are rapidly accumulating which go to show that under a certain set of conditions sweet clover might occupy a much more prominent place agriculturally in the future than has been the case in the past. This subscriber has dealt with it wholly as a pasture crop and under his conditions it seems to have given a good account of itself.

BRUISED AND CRIPPLED HOGS MONEY LOSERS.

In recent years great improvements have been made at the large market centers in the method of handling fat hogs and there is now a movement on foot to bring the important lesson home to farmers and shippers that a bruised hog is a losing proposition. Buyers in the employ of the big packers are more and more discriminating against lots of hogs that show a large percentage of bruised or injured animals. This means a heavy loss to the shipper and in many cases it more than wipes out his profit.

Frequently hogs are put in bad condition by the method of loading. Allowance must be made for a hog's natural stubborness and it must be remembered that in handling hogs patience should be the dominant virtue displayed. Slippery loading chutes should be covered with straw or manure and under no circumstances should they be pounded into subjection or submission. Even a whip will mark the skin and impair the value of the finished carcass. Very often the first damage is done when loading in the wagon on the farm and in this connection we would like to call attention to the use of a big feed basket at such a time. When the hogs are rounded into a small lot and everything is ready to walk them up the chute into the wagon, two or three men carrying zinc or metal baskets can load the hogs much more quickly and easily than if they try to operate cudgels. When a hog turns to go down the chute if he is faced there and then with a big bucket he will back up and in so doing will simply accompany his fellows that are going forward up the chute. By this plan it is often possible to load a large drove of hogs without allowing a single one to become obstreperous.

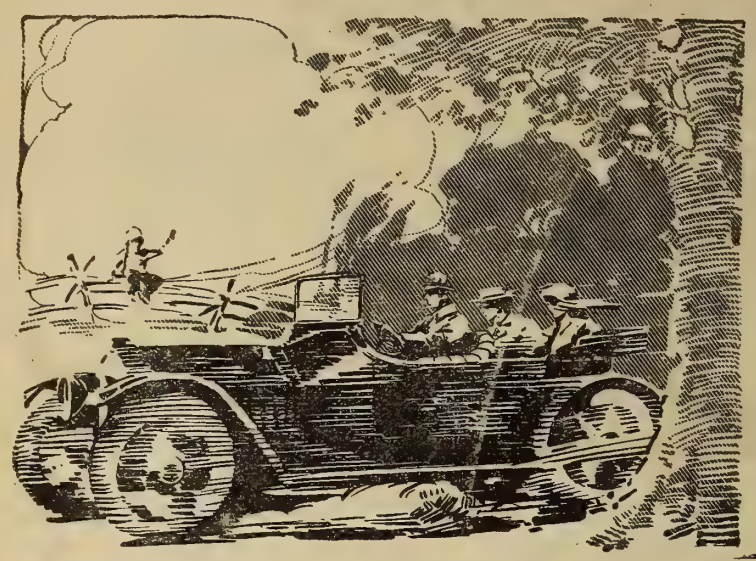
As intimated above more attention is being paid to the way in which animals are handled at market centers than ever before and that being the case it is greatly to the producer's interest if he will exercise the same degree of care.

SMUT TREATMENT INCREASES YIELD.

Experiments in treating grain for smut carried on at the Ontario station for a period of five years show some rather striking results. In the case of oats untreated the average yield per acre for the five-year period was 60.3 bushels. The percentage of smut in the untreated crop varied from 3.4 per cent to 11.6 per cent. Oats immersed in a mixture of water and formalin gave an average yield for the five-year period of 68.3 bushels per acre. In other words, the treated seed yielded eight bushels per acre more than the untreated. In the case of winter wheat the untreated seed yielded thirty-eight bushels per acre while seed treated with the formalin method yielded 43.3 bushels per acre.

A comparison between the bluestone method and formalin resulted in favor of the formalin method in every instance. The plan that resulted most effectively not only in destroying smut, but in increasing the yield involved the immersion of the grain for a period of twenty minutes in a mixture composed of one pint of formalin to forty-two gallons of water. In these experiments the grain was sown shortly after the treatment, but it is not assumed that this plan is in any way superior to that of drying out the grain and sowing it later. According to these results it would appear as if enough has not been said about the beneficial results of treating seed apart from its influence in bringing about the destruction of smut. Formalin is inexpensive and it should be used much more freely in the future than it has been used in the past.

Mitchell



THE 1913 Mitchell makes three strong, favorable impressions on the man who wants to buy a car; the first by the way it looks; the second by the way it is made—the details of its construction and equipment; the third by the way it runs when he is taken out for a demonstration.

All exaggerations and sensational effects are eliminated in the design of the Mitchell; its lines are those of simple elegance and utility, developed by our engineers along the lines of the best foreign cars.

The man who examines the 1913 Mitchell carefully will soon satisfy himself that no other car at anywhere near the price offers so complete a combination of the newest improvements developed in the motor industry. All the essentials of the highest-priced automobile are in this car—the things that assure power, speed, comfort and convenience.

In the case of the Mitchell, moderate price does not mean "moderate" workmanship or materials; only the best available of both have been utilized—built according to the same standards that have made Mitchell vehicles famous for the past 78 years.

All 1913 Mitchell cars have left drive and center control; Bosch ignition; Rayfield carburetor; Firestone demountable rims; rain-vision windshield; Jones speedometer; silk mohair top with dust cover; Turkish upholstered cushions; Timken front axle bearings; gauges on the dash to show air pressure and oil pressure; gauge in gasoline tank showing amount of gasoline it contains; and a portable electric lamp which also illuminates the instruments on the dash.

All with T-head motor, electric self-starter, electric lighting system, and 36-inch wheels

	Motor	Wheel Base	Prices F.O.B. Racine
7 passenger Six	60 H. P. 4¼x7 in.	144 in.	$2,500
2 or 5 passenger Six	50 H. P. 4 x6 in.	132 in.	1,850
2 or 5 passenger Four	40 H. P. 4¼x7 in.	120 in.	1,500

DEALERS EVERYWHERE.

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

The first parcel post package delivered at our box was a sample of woven wire fence. Long live parcel post, also woven wire fence.

The dairy cow that has to quench her thirst with ice water cannot be expected to do her best. A cow giving milk requires more water than a farrow cow, and she does better when the chill has been taken from it.

A dry freeze is good for the soil. There have been a number of them already this winter, and unless the spring brings floods, the soil ought to work up in best possible condition.

There are a whole lot of folks who are looking for a chance to adopt children who will quickly grow into hired boys and girls, only they expect to keep them always on the job without the formality of paying wages.

You can easily tell a dead merchant now. He is paying no attention to parcel post, and is making no effort to serve his customers through it, even when by doing so it would prove a great accommodation. If the mail order house gets the most business it is because advertising and enterprise bring it.

It will soon be time to think about the corn planter. I once lost a good sum of money by using an old corn planter a season too long. It isn't everything that a planter can be made to work, it is how it does its work that counts.

A disk harrow ought to be sharp to do its best work. Loading on weight to compel a disk to cut in only serves to increase the draft, while a sharp, keen edge gets down into the soil and turns it up with the least possible resistance. It pays to keep every kind of a disk tool sharp.

On a cold morning, when iron is full of frost, is a good time to twist bolts off easily and otherwise cause breakage that could not happen by mere "tinkering" during warm weather. Zero weather is a poor time to make repairs on machinery. An ax, for the same reason, will nick quicker on a cold morning than at any other time.

Almost everyone has more roughness than they need, and hay is getting cheaper instead of higher every week, an exact opposite of conditions at this time last year. There will be fodder to spare on many farms, this spring, but better have it to pile in for the stock to bed on than to have to buy at high prices, as was the case with many last spring.

There is no farm animal that is more particular about his bed than the hog and if his bed is not clean and dry there is trouble in store for the owner. The worst bed a hog can have is a deep layer of damp straw that has begun to heat.

In order to get the most out of oil meal for hogs it should be mixed with boiling water and allowed to stand a few hours before mixing with the other slop. Some feeders get good results by feeding it dry, but their equipment is different from that of the average pork raiser.

The public sale has been of daily occurence for a long time, yet stuff continues to sell well. The public sale is a prairie institution, and is therefore strictly American. The Easterner, visiting in the West, is surprised at the number of public sales held, and naturally he wonders if everyone is wanting to sell out and leave, the changes made appear to be so numerous. It is only the western way.

Dynamite is a powerful helper in ridding the farm of stumps and stones, but it is a good plan to study his habits carefully and let him use his strength where it will do the most good. The man who tries his strength against dynamite at close range never makes a second trial if he can avoid it.

A galvanized iron roof may not be the thing for the stock barn that is poorly ventilated, but it is the best and the longest lived for the open cattle shed, the corn crib and other common outbuildings. It will outlast shingles and it will be there in good shape after two board roofs have rotted and gone.

IMPROVED GRAIN DISTRIBUTED FREE.

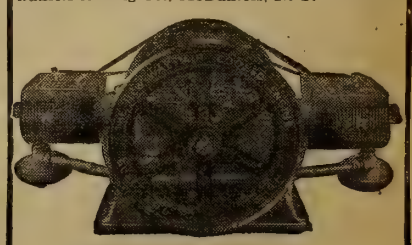
The recently organized Iowa Agricultural Experiment Association—an association in which the farmers and the experiment station co-operate for mutual help—hereby announce that it is this year prepared to distribute to careful farmers in every county in the state seeds and other materials for experimental tests on their farms. The experiments will consist in the trying out of superior varieties of oats, barley and corn, and the testing of different methods for the successful production of alfalfa and red clover crops.

Some of the varieties of grain will be improved, pedigreed sorts now being generally distributed for the first time and the object is to have these widely tested in order to determine their adaptability and productivity in the various districts and localities, before recommending their extensive use. The farmers undertaking these tests will of course be the first to have a supply of seed of these new varieties for their own use and for sale. Most of the materials for the alfalfa and red clover experiments as well as for tests of varieties of grain will be distributed free of charge, but each farmer undertaking an experiment must agree to conduct the test according to definite instructions and to make a careful report to the secretary. Each experimenter who does the work well and sends in a reasonably accurate report will become a member of the association by so doing.

The officers of the association are particularly anxious that energetic and progressive young farmers shall take part in this co-operative experimental work so that knowledge of the value of these varieties and methods shall be quickly spread abroad and in order that the seeds may be carefully kept pure and multiplied until a large supply of pure seed is available in every district where the new varieties prove adaptable and productive. Progressive farmers of any age may, of course, participate in the work if they so desire. A printed circular giving full particulars, regarding the experiments, together with an application form may be secured by writing to the Sec. J. Buchanan, Agricultural College, Ames, Iowa.

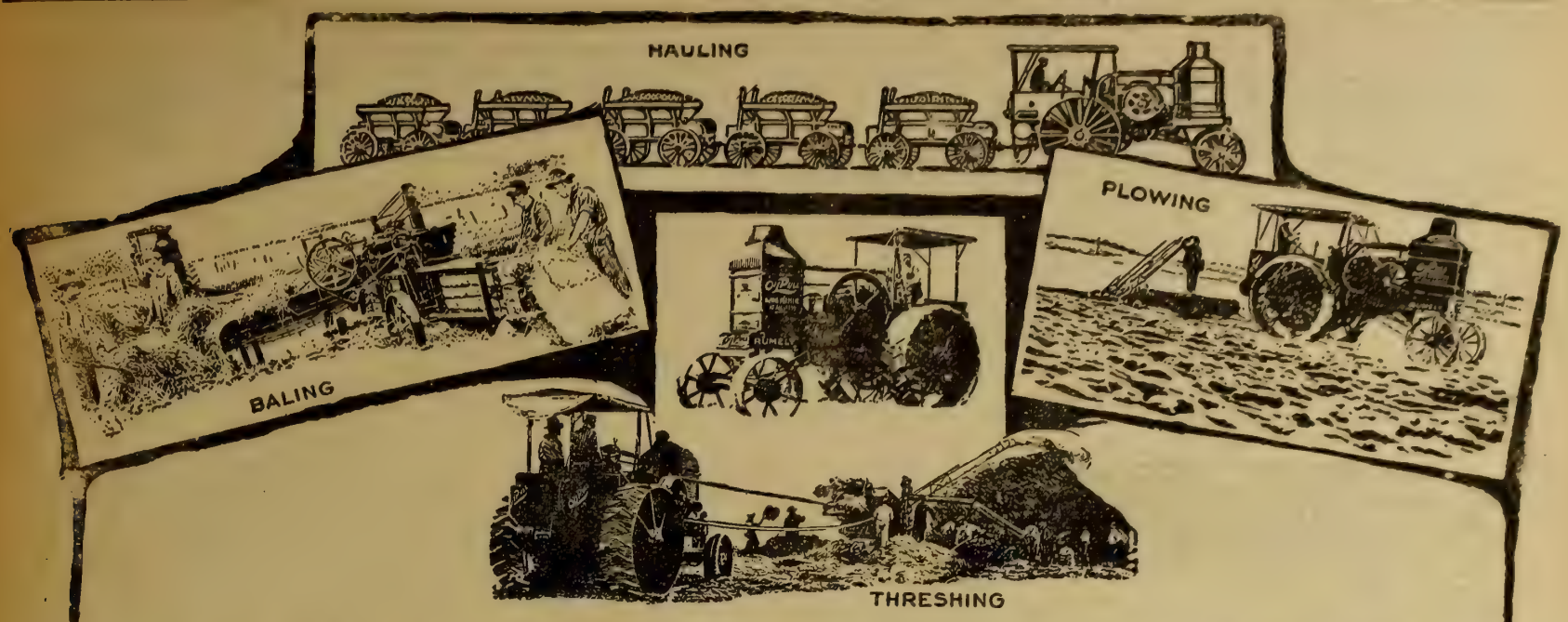
THE "NEW-WAY"
AIR-COOLED TWIN CYLINDER
"BEST MADE," says McDaniels

"Gentlemen:—
We have been using an 8 h. p. "NEW-WAY"—have just bought a 12 h. p. and if we need a third will buy the "NEW-WAY" because it gives better results than any other—to our knowledge it is the best and most economical engine made. McDaniels Milling Co., McDaniels, N. Y."



Write now for catalog No. S.

THE "NEW-WAY" MOTOR COMPANY
LANSING, MICHIGAN, U.S.A.



AN ALL-WORK TRACTOR

Man did his first plowing with a wooden stick. If you plow with horses, this looks queer to you. But the farmer with a tractor looks upon working horses as queer too—except for small jobs—to him it means waste.

Get these Tractor Facts in your mind

One man's work on a farm with one horse is limited to 25 acres—one man with a tractor handles 400 acres. You can't afford to plow and till as deeply with horses—nor as well. It costs too much to keep a lot of horses standing idle most of the time.

A tractor will save $1 an acre in plowing—besides it will harrow, haul, thresh, bale, saw, etc.—pull any machine or drive it with a belt. A horse eats 10,000 pounds of food a year. One acre out of every five under cultivation goes to feed farm horses.

A tractor works 24 hours a day if necessary—a horse 10 hours at best. Horses get sick—tractors don't. A plague struck Kansas last year—20,000 horses died in six weeks. To plow an acre is a day's work for a man and one horse—30 minutes' work for a man with a tractor. The tractor is as far ahead of the horse as the railroad is ahead of the stage coach.

Here is the whole tractor argument: LESS WORK—BETTER CROPS—MORE PROFIT!

It makes a Difference what Tractor you have

Some prove costly—some cheap. We build a tractor the right way. For simplicity, power and adaptability, it is the equal of any tractor. For strength and cheapness of operation, it has no equal. It really costs less because it lasts longer.

For all-round tractor ability pick the

RUMELY OILPULL TRACTOR LA PORTE IND.

It is the only tractor that burns kerosene successfully under all conditions of climate and load. It is built with the right idea—to use cheap, abundant fuel—and make it give the same results as gasoline.

Think of the saving in fuel cost—$1.50—$3.00 every day you use it.

Here are some OilPull Facts

FUEL—The OilPull burns any liquid fuel. It will burn kerosene in any climate—at any load. ENGINE—The O.P. 30-60 h.p. is a four-cycle engine with two cylinders of ten-inch diameter and twelve-inch stroke. O.P. 15-30 h.p., a single-cylinder engine with same diameter cylinder and same stroke. CYLINDERS—The cylinders are singly cast and have individual heads. CARBURETER—The Secor-Higgins Carbureter is used—which regulates the supply of fuel under all conditions. There are no springs nor internal mechanism within the carbureter. IGNITION SYSTEM—Low tension make-and-break ignition with standard magneto.

LUBRICATION—A combination forced and splash system of lubrication is used. GOVERNOR—The governor is actuated by bevel gears which are driven by reduction shaft within the crank case, affording perfect speed regulation without stopping to readjust carbureter or governor.

GENERAL—The material and design of the gearing, crank shaft, crank case, valves, axles, etc., is of the best. All working parts are accessible and still thoroughly protected. The OilPull combines endurance, dependability, simplicity, and low running cost with the fullest capacity for self-regulation.

OilPull is made in two sizes—30 tractive h.p., 60 brake h.p., and 15 tractive h.p., 30 brake h.p.

The Dreadnought Steering guide, which makes the tractor self-steering, is furnished with every OilPull.

We are also able to furnish a complete line of power-farming machinery—gang-plows, threshing outfits, automatic balers, saw mills, etc.

Write for data-book on the OilPull

RUMELY PLOWING HAULING THRESHING REG. U.S. PAT. OFF.

RUMELY PRODUCTS CO.

(Incorporated)

Power-Farming Machinery

LINCOLN **DES MOINES**

Home Office: La Porte, Indiana No. 443

LESS SEED MORE CROP

The Sign of the Van Brunt

SEED REPRESENTS MONEY

SO DOES PLANTED GROUND

A drill that saves seed and still gives you maximum returns saves you money. One that plants seed so as to waste no ground, makes you money.

A Van Brunt Drill Does Both Because It Has

Adjustable Gate Force Feed

Even feed does not depend entirely upon flow of seed from hopper which may vary, but is assured by patented reservoir with adjustable gate at bottom of each seed cup. This combination positively provides for even discharge into seed tube.

With an even flow of seed guaranteed, you are safe in planting the minimum amount because you know there will be no thin spots.

These drills are quickly adjusted to plant anything from alfalfa to bearded oats. Change of feed for large or small quantity of grain made instantly. No complicated sets of gears.

Grass seeder attachments can be furnished on all sizes.

Single Disc Closed Boot

This Van Brunt invention made disc drills popular. It revolutionized the construction of grain drills. Guaranteed not to clog or choke in any ground that can be seeded. Compels an even depth with every kernel covered. All seed planted at bottom of furrow. "It beats the dirt." The non-choking feature saves time and the even planting makes a better crop.

Pressure springs are instantly adjustable individually without tools. All seed furrows the same depth.

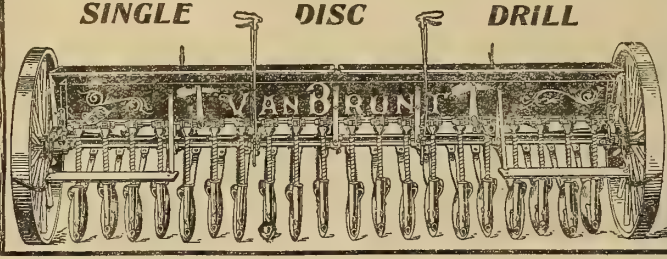
Disc bearings are guaranteed to last lifetime of drill. Any that wear out will be replaced free of charge. One oiling for every quarter-section seeded is sufficient. They are dust-proof and oil-tight.

Learn all about the successful, light-weight, durable Van Brunt Drills. Write at once for special new catalogue.

Ask for package No. VB 27.

Address JOHN DEERE PLOW COMPANY, Moline, Ill.

SINGLE DISC DRILL



Do Power Plowing This Way
Run the Entire Outfit Alone

YOU can do it with an Avery "Self-Lift" Engine Gang. You don't need any plowman. **Run the entire Plow Outfit alone.** You don't have to raise and lower the plows by hand levers at the end of each furrow. **Simply pull a cord**—that's all there is to do.

In the Avery "Self-Lift" Engine Gang a special Automatic "Power Lift—Self Drop" Device takes the place of the usual hand levers. The plows are handled entirely by power taken from the plow wheels. Pull a cord at the end of the furrow and the plows raise—turn the Outfit around, pull the cord again and they drop into the ground.

Saves you the wages and board of a plowman. One man or boy can run the entire outfit alone. An Avery "Self-Lift" Plow pays for itself by the saving it makes.

Saves all the hard backbreaking work of lifting and lowering each plow by hand levers at the end of each furrow. Running back and forth on a hand lever engine gang lifting and lowering the plows by hand levers is one of the meanest and hardest jobs there is. You save all this hard work with an Avery "Self-Lift Plow.

Saves time at the ends. No stopping or slacking up to raise or lower the plows. Pull the cord and keep right on going.

Write for Avery "Self-Lift" Plow Book

Explains fully why the Avery "Self-Lift" Plow **is the most wonderful invention ever made in Engine Gang Plows**—why it has put all the Hand Lever Plows entirely out of date. Shows how it makes **clean, even ends,** and **does fine job of plowing** as well as saving expense, hard work and time.

Built in sizes 3, 4, 5, 6, 8 and 10 Furrow. Stubble or Breaker Bottoms. **For use with any make or kind of Traction Engine**—Steam, Gas or Oil. Won all the Gold Medals in the 1912 Winnipeg Plow Contest. If you haven't an Engine already, also ask about Avery "Light-Weight" Gas or Oil Tractors or Avery Undermounted Steam Engines. Address

AVERY "Self-Lift" Plow

Avery Company, 1262 Iowa Street, Peoria, Illinois

Also Manufacturers of "Yellow-Fellow" Separators and Gasoline Farm Trucks.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

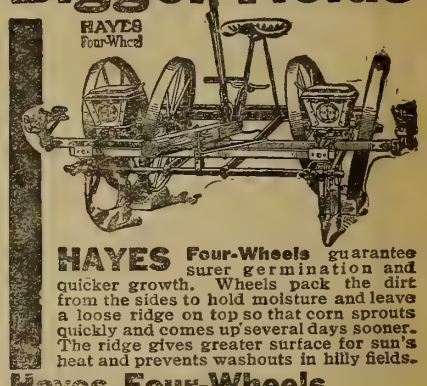
CURRENT EVENTS

A CONSTITUTIONAL amendment which would restrict the president of the United States to a single term of six years and would bar Woodrow Wilson, Theodore Roosevelt and Wm. H. Taft from again seeking election, was approved by the senate last week by the narrow margin of one vote more than the necessary two-thirds. The exact wording of the proposition is as follows: "The term of the office of president shall be six years and no person who has held the office by election or discharged its powers or duties or acted as president under the constitution and laws made in pursuance thereof, shall be eligible to hold again the office by election." It would thus be seen that while a president could not be reelected, he might gain the office of vice-president and, through the death or removal of the president, be elevated again to the presidency, but in no other way could he secure the highest position for a second time. The progressives maintain that the plan is simply aimed to keep Colonel Roosevelt from running again, regardless of its merits or other effects. They oppose it bitterly in the senate and will fight throughout the country at large to keep the requisite two-thirds of the states of the Union from ratifying the proposition before it can legally become a law. The senate turned down every proposition to amend the bill so that it would not apply to any former presidents or the president in office when it finally becomes a law if it ever does. The amendment now goes to the house, where it must likewise pass by a two-thirds vote and then be put up to the legislatures of the various states for ratification by two-thirds of them before it can become the law of the land.

COLONEL GEORGE W. GOETHALS, the builder of the Panama canal, for secretary of war in President Wilson's cabinet is the latest rumor from Washington. It will be recalled that after President Taft's Christmas visit to Panama he proposed the appointment of Colonel Goethals as civil governor of the canal zone, but fearing that the democrats in congress would block the appointment he withheld the nomination. Colonel Goethals seems slated for even higher honors, as the excellence of his work in building the canal so promptly and so efficiently is recognized beyond any question of partisanship. He went to Panama when things were in a bad shape, because of the tangle of red tape and the chaos into which political incompetents had allowed affairs to lapse. He has ruled things with a firm hand and will have the canal finished long before it was promised. It is believed that Colonel Goethals would make a most efficient secretary of war, as he has good executive ability and knows the problems of the army by personal experience. Other political rumors of the week slate Wm. J. Bryan for secretary of state positively, while adding that A. Mitchell Palmer, of Pennsylvania, a close friend of President-elect Wilson, will be another cabinet member. For secretary of agriculture Obadiah Gardner, of Maine, and President Waters, of the Kansas State College of Agriculture seem to be the favorites, although Governor Wilson has not made any intimation whatever as to his choice. He has stated that he will not announce any of his cabinet selection prior to his inauguration, when the names of all the cabinet members will be made public at once.

WYOMING was the thirty-sixth state in the Union to ratify the proposed constitutional amendment providing for an income tax, making the requisite two-thirds of the states which the constitution says must approve of any amendment. The following day Delaware and New Mexico likewise ratified the amendment, so that just as soon as congress takes the required action (which will be done probably at the extra session to be called by President Wilson early in March) the income tax will become the law of the land. It provides for a tax upon all incomes in excess of an amount not yet established, probably $5,000 or even as low as $4,000. It is expected that this tax will result in an immense sum being raised for the government, approximating $100,000 a year. The income tax will supplant the present corporation tax and will apply to the incomes of individuals, firms and corporations. There is a probability that business firms will be obliged to certify to the government the salaries paid to their various employes and the revenues of their various stockholders, upon which the firm will pay the income tax direct to the government, deducting the same from the salaries and revenues of the individuals. This will simplify matters for the government and do away with the necessity

Four Wheels Bigger Yields



HAYES Four-Wheels guarantee surer germination and quicker growth. Wheels pack the dirt from the sides to hold moisture and leave a loose ridge on top so that corn sprouts quickly and comes up several days sooner. The ridge gives greater surface for sun's heat and prevents washouts in hilly fields.

Hayes Four-Wheels

regulate depth of planting to the fraction of an inch—the only planter made that plants every kernel exactly the same depth. This is an important factor in the success of the corn crop. Corn all comes up at the same time, allows earlier cultivation and guards against missing hills from uneven planting.

HAYES Four-Wheels cover where all ordinary open wheels fail. They spread at the top and clean themselves. Guaranteed not to clog or carry the corn over even in wet and sticky soil. Insures a stand in low wet spots of field and allows earlier planting.

Never Misses a Hill

The HAYES Drop never fails. It is the simplest, most durable and most efficient ever made. Fewer parts than any other. Has no clutch to miss and give trouble. Never cracks or grinds the seed. Will drop accurately any size or shape kernel.

The HAYES leaves no bare spots in your fields. Increased yields soon pay for it. Farmers who have been disappointed with edge drop planters are now buying the HAYES never-fail drop.

Leads All Other Planters

Over 160,000 in use. Most perfect checking planter made. Short coupled, light draft and turns in shortest space. Twenty-five years success. Fully guaranteed.

Can be furnished with perfect working Fertilizer and Cow Pea Attachments, also Stub Runners or Discs if preferred.

Ask your neighbor and dealer about the HAYES and send postal for free booklet P containing valuable planter facts.

HAYES PUMP & PLANTER CO., GALVA, ILL.

Hayes Four Wheel Corn Planter

THIS PLANTER DOUBLES POTATO — PROFITS

Reduces planting costs to a minimum. The Eureka opens the furrow, drops seed accurately any distance or depth desired, puts on fertilizer if wanted, covers perfectly and marks next row. Always plants uniform depth. Three sizes, one or two rows.

Get a Eureka Mulcher and Seeder

Creates dust mulch, cultivates and weeds, sows and covers grass seed, alfalfa, oats, etc. Prompt shipment from branch house near you. Write for Free Catalog.

EUREKA MOWER CO. Box 567, Utica, N.Y.

LATCH STRING

Is Out for You at GALLOWAY'S

You owe yourself a visit to Waterloo. Come! A little vacation right now will do you a world of good. Come! The moment you get off the car at Galloway Station, you're Galloway's personal guest—no expense, free entertainment—put up at our $60,000 Agricultural Club and enjoy every comfort and luxury. Remember, this Club was built for my farmer friends and their families.

Bargains—If You Want Them!

Go through my factories. See how Galloway Spreaders, Engines, Separators, Harrow Carts, are made. Satisfy yourself about quality—then if you like save big money on anything you need. I'll give you lowest, direct factory prices and a special 5% discount if you cut out and bring this "ad."

No Obligation to Buy

Look around. Have a good time. Get posted on real values. Then, buy if you want to—if not, all right! There are other factories in Waterloo. I'll put you in touch with my competitors so that you can get all the facts. Isn't that square? That's the Galloway idea. Everything fair and square at every turn of the road.

Write Me That You Are Coming

Wm. Galloway, Pres., WM. GALLOWAY CO.

108 Galloway Station, Waterloo, Iowa 217

CENTURY Rubber Boot

A Tiger for wear. They are made of live, high-grade Rubber. Extra quality from toe to pull straps. A handsome piece of honest value—the Century. Reinforcements at ankle, heel, toe and sides of real rubber and strong duck make this a battleship boot for wear in damp, wet weather. Your feet slide into comfort and warmth. Protect your pocketbook—and look for the "Cross" on the bottom. Remember the "no crack" ankle and the wear resisting soles of pure rubber. Ask your dealer. If he has none—write us his name and ask for handsome free Booklet No. 10

BEACON FALLS

Beacon Falls Rubber Shoe Co., Beacon Falls, Conn.

SECTIONAL

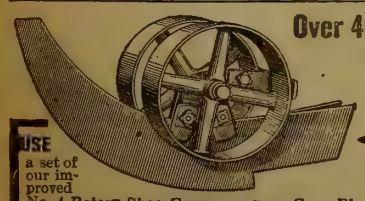
Miller HOG HOUSE WITH FLOOR

Built of Regular Tongue and Groove Yellow Pine Flooring.

THE 6x7 floor is securely nailed to *four* 2x4 sills; the ends and sides to 2x2 frame. Bolts to place. Dipped in mineral paint containing a strong disinfectant to preserve wood and keep away vermin. All lumber is seven-eighths yellow pine, dressed both sides. Floor angle preserves the pigs at farrowing time. To save two pigs pays for the MILLER HOG HOUSE.

Warm in Winter, Cool in Summer. Take apart and sun well between litters. Comes in five sections, with bolts, crated for shipment. Price, just a little more than cost of the lumber in your town. The Government says this type of wood hog house is best. Write for catalogue and prices. Address,

MILLER MANUFACTURING CO.,
8016 Alabama Ave., St. Louis, Mo.



Over 4800 in Use

USE a set of our improved No. 4 Rotary Shoe Gauges on your Corn Planter, and we'll **Guarantee 8 to 10 Bushels more Corn an acre**—every hill planted at a uniform depth—your corn to come up **all** at same time, or you get your money back. **Send only $5** to us, and we'll deliver a set to your nearest R. R. Station by **freight prepaid.**

P. O. KELLER MFG. CO., Waterloo, Iowa
Send for our FREE booklet, "3 Ways to Plant Corn"

of prying into individual affairs. The new tax will not become effective for several weeks yet. It will add very materially to the revenues of the government, which will be cut down by the revision downward of the tariff which the democrats are proposing to bring about in the very near future.

TWO months having been devoted to peace negotiations, without results, warfare was resumed between Turkey and the Balkan states last week. The Bulgarians immediately resumed the siege of Adrianople, while the bombardment of the fortresses around Constantinople was taken up with renewed vigor. The Young Turks, who are now in the ascendant, propose trying to make a record against their foes, so they may be expected to fight with considerable spirit for some time. It seems almost certain, however, that Adrianople is doomed to fall, as the provisions are being rapidly exhausted. The last proposal of Turkey was to surrender the town to the allies, withholding only the mosques and temples, but the Bulgarians demanded an unconditional surrender, believing that conditions are so serious the fortress must surrender after a few days bombardment. The allies now declare that they will not consider peace again until the Turks are willing to surrender almost all of their possessions in Europe. Both sides have strengthened themselves during the armistice, Turkey bringing in fresh troops from Asia and the allies resting their exhausted forces and adding to the armament. The winter season has somewhat relaxed in the Balkans, so the resumption of war is not accompanied by the climatic hardships which marked the early stages of this most severe war of recent times. The loss of life on both sides is said to be far in excess of 100,000 men already.

BEFORE he quits office President Taft will have appointed 114 federal judges, a record unequaled in the history of the country. Not only has he been called upon to name five out of the nine members of the United States supreme court, but he has appointed 58 per cent of the 195 federal judges provided for by the statutes. There are 146 federal judges who enjoy life tenure and of that sort Mr. Taft has appointed sixty-five, or about 40 per cent. Mr. Roosevelt in his first term named forty-three life judges and in his second forty-one. Mr. McKinley named twenty-three life judges, Mr. Cleveland in his second term twenty-seven and Mr. Harrison forty-nine. The importance of the office of president in this matter of keeping the judiciary at a high plane is apt to be overlooked in the midst of political arguments and affiliations. The great bulk of President Taft's judicial appointments have been high-grade, honorable men. It is true that one of them, Archbald, of the United States court of commerce, has been impeached for conduct unbecoming of a judge, but Archbald had served on various benches for twenty-five years before President Taft called him to the commerce court, so he had an established reputation. It is not at all probable that President-elect Wilson will be called upon to appoint nearly so many judges as Taft, although there is a movement on foot to increase the number of members of the United States supreme court, so as to give the democratic president more power in this particular direction at this time.

The output of horseshoes in this country in 1912 was 110,000,000. From 1900 to 1910 the number of horses in the United States increased from 13,000,000 to 21,500,000, while their value during that period rose from an average of $42 a head to $96. In 1900 the government reported the mule population to be 2,250,000. In 1910 it had doubled. It is estimated that the number of work horses, not counting those on ranges, increased 465,000 last year.

It costs money to install a pressure tank water system in a farm home, but the one who goes to the expense will get more pleasure than he who keeps his money in a pile to look at. After all, what is the use of working early and late to get money just for money's sake.

You have demanded a more-mileage tire for country roads—and here it is

Diamond (No Clinch) Tires

made of Vitalized Rubber

You must have a tire tough and flint-like enough to fight the country roads, made of young, lusty rubber, elastic enough to absorb shocks, thus preventing rim troubles and breaking above the bead.

Fifteen years ago, when we built the first pneumatic Automobile Tire in America, we began studying the tire problem.

After countless laboratory tests and experiments our chemists have discovered how to scientifically toughen pure rubber by a new process—and you enjoy the benefit of this really wonderful more-mileage discovery—in Diamond Vitalized Rubber (No-Clinch) Tires.

Add to this the Diamond proved principles of construction—nothing inferior in rubber, fabric or workmanship—Perfect 3-Point Rim Contact, the No-Pinch Safety Flap, for inner tube protection—and you have as perfect a tire as money can buy.

So this time specify Diamond Vitalized Rubber Tires—you can get them of any one of the

25,000 Diamond Dealers always at your service

Diamond Vitalized Rubber Tires for Automobiles, Motorcycles and Bicycles

The guarantee on Diamond Tires becomes null and void when used in connection with any substitute for air, fitted to rims not bearing one of these inspection stamps or having had its serial number removed in whole or part.

I Guarantee to You

that this FOSSTON Automatic Combination Grain Cleaner and Corn Grader will grade your corn *better, cleaner* and *faster* than you can do it in any other way. This machine will absolutely clean your grain—grade your corn—make bigger crops—make you more money. Hundreds of users join me in saying that the FOSSTON is far and away the greatest cleaner and grader in the world—built for perfect work and long service, with heavier crops and larger profits sure to follow its use.

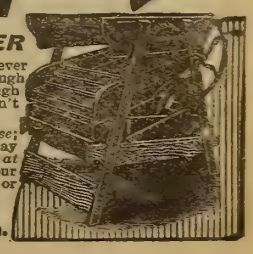
S. N. SORENSEN, President

FOSSTON

Automatic Combination CLEANER - GRADER

has a patented wheat gang that is positively the finest thing for cleaning wheat ever invented. It has zinc sieves; grain is *perfectly* cleaned and separated going through the mill *once*. This gang will not let a single wild or tame oat kernel slip through with the wheat, barley or rye in *one time through*. Ordinary fanning mills couldn't do the job so well running the grain through several times.

Free Trial 30 Days! Let us ship you a FOSSTON *at our expense;* use it 30 days *at our risk;* if you don't say then it's the great machine Mr. Sorensen claims it is, send it back—*also at our expense.* Learn more about the FOSSTON before you buy. Ask your dealer to show it to you. Write today telling us to ship one on free trial, or asking for booklet giving complete descriptions of every style.



FOSSTON MANUFACTURING COMPANY
450 Merriam Park St. Paul, Minn.

Easy to Operate Light Draft Durable

NO matter what kind of a Plow you want—Riding, Walking, Deep Furrow, Disc or Engine Gang—get the EMERSON, backed by *60 years* experience and improvements.

The EMERSON Plow illustrated above is the *easiest operated sulky plow in the world.* With its exclusive, patented lifting device, a 10-year old child can lift the plow out of the ground by a mere touch on a foot lever.

No other sulky Plow is so simple, so durable, so light in draft, so eminently efficient and satisfactory.

There are *many* reasons for EMERSON superiority. They are covered in detail in our Plow Book. If you want the best Plow your money can buy, write us for the EMERSON Plow Book and learn *why* EMERSON users are *enthusiastic* about EMERSON Plows.

Emerson Plows

are backed by the well-known EMERSON guarantee and reputation of sixty years standing.

The difference in prices of plows is so slight, and the difference in length of service and ease of operation so great that it will *pay* you—and pay you *well*—to buy only EMERSON Plows.

Write For This Book

It explains *why* EMERSON Plows enjoy such a fine reputation for *scouring quality*—*why* EMERSON special constructive principles produce the exceptional EMERSON durability—*why* EMERSON Plows are light draft and easy to operate, and *why* it is to *your* interest to own an EMERSON. This fine book sent free, postage paid. Write for it NOW—before you forget. 29084

EMERSON-BRANTINGHAM IMPLEMENT CO.
352 Iron Street (INCORPORATED) Rockford, Ill.

City Style *Glide* Country Service for 1913

THE GLIDE "36-42" is the car for the country because its *quality* will withstand the hardest service over roughest roads. Yet it is the choice of particular city buyers also, because added to this structural quality it has the style, grace and superb finish to make it envied on the boulevard.

The simplicity and accessibility of its parts make the GLIDE practically trouble proof.

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The GLIDE Automatic Dynamo *Electric-Lighting* System enables you to light all lamps with the turn of a button.

And there's no hand cranking of the engine to start. The GLIDE Self-Starter is *sure* of a spark, regardless of whether the points of the Magneto are together or not.

The GLIDE *Center Control* is simplicity itself and enables driver to get out of the car quickly and comfortably on either side. The left side drive means ease and safety of driving—you can see your margin of road ahead. The GLIDE is a car for women as well as men—convenient, safe, clean.

Write NOW for 1913 Bulletin

describing and illustrating the GLIDE "36-42" in detail, in both 2 and 5-passenger styles. Get your pencil out *right now* and drop us a postal before you forget.

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To the Dealer:

If the GLIDE agency is open in your territory you may have it now on advantageous terms. Later you'll not be able to get it on any terms. Once a GLIDE dealer, always a GLIDE dealer. It's an asset a man doesn't give up. Write Today.

Fully equipped $1690
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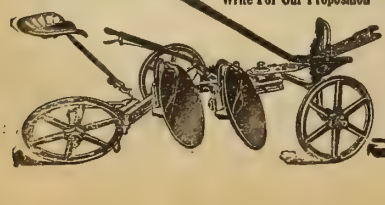
$37.50 PLOW YOUR HARD DRY GROUND WITH A Hapgood-Hancock DISC PLOW

Write For Our Proposition



You can do it with ⅓ Less Draft than with any mould-board plow made. Save your horses! Don't take our word—try it yourself! We know that it will do just as we claim because we have put it to the most severe tests. Therefore, we know what we are about when we sell it under this absolute guarantee.

Address Hapgood Plow Co., Box 218, Alton, Ill.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED

HUSBAND AND WIFE—WILL.

A Subscriber, Wilbur, Neb.—(1) A widower who had one child married again, but there were no children by the second wife and the man died intestate, leaving real property in Iowa. What portion of this property would his widow be entitled to under the laws of Iowa? (2) Can a man will away his property in Iowa as he chooses?

Answer.—(1) The widow is entitled to one-third of the Iowa land, and the child to two-thirds of it. (2) An unmarried man can will his property in Iowa to whomsoever he chooses, but a married man cannot by his will deprive his wife of her lawful distributive share of his property. If he leaves descendants, the widow is entitled by law to one-third and if he leaves no descendant, she is entitled to half of his estate.

PERSONAL PROPERTY NOT FIXTURES.

A Subscriber, Mitchellville, Iowa.—A rented a farm to B. A furnished the hay track in the barn and B furnished fork, rope and pulleys. When not in use the rope and fork were taken down and put away. During the season A sold the farm to C. (1) Can C prevent B from taking away the rope and fork? (2) If not, can C compel A to replace them? (3) Can B remove a cistern pump owned by him which is not fastened to the platform?

Answer.—(1) He cannot. B has a right to remove from the farm the rope and fork at any time before his term expires or at that time. (2) C cannot compel A to replace the rope or fork, because they are not fixtures belonging to the place, but merely personal property belonging to B. (3) For the same reason B can lawfully remove the cistern pump at or before his term as tenant expires. It is a general principle of the common law (not found in the code of Iowa) that personal property not fixed to the land is not in the nature of fixtures and does not pass to the purchaser of the land when it is sold.

WAGES OF MINOR.

Mr. Chas. Swearingen, Kingsley, Iowa.—Our boy was hired to work for a man for seventy-five cents a day. After working a few days the man wanted to hire him by the month and the boy's mother sent word for the man to come and see his parents about it, but he did not come. I saw him several times in town while the boy was working, but he said nothing about it, and when school commenced we had the boy come home and go to school. He worked for the man two months and eight days and we charged the man $34.56 for it, but he refuses to pay more than $27.50. The boy is about fourteen years old. Several other persons offered $1 a day for the boy's work. What amount can we recover for the boy's work?

Answer.—You can recover seventy-five cents a day for the time the boy actually worked. That was the contract, and there was no other contract made between you and the man for whom he worked. There was no contract made by the month, it was only talked about, and the man is liable for seventy-five cents per day, for the time the boy actually worked.

PARENTS' RIGHT TO PROPERTY.

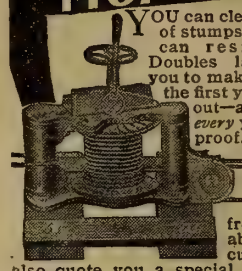
A Subscriber, Ashton, Neb.—My father and mother owned 160 acres of land worth about $12,000, and lots in town worth about $3,000. They deeded everything to the youngest son when he became of age, giving nothing to the other children. Father and mother are still living. What steps must the other children take to get a share of the property?

Answer.—They cannot get a share of the property by law. Parents have a right to give any or all their property to any child leaving nothing for other children if they choose to do so.

STALLION SERVICE FEES.

A Subscriber, Rolfe, Iowa.—A has owned a registered Percheron stallion for the last two years and kept him for public service, moving him about in the neighborhood as occasion required. During the season of 1911 bills were posted up stating the terms of servce, viz.: $12.50 to insure mare with foal, insurance to become due at once if mare was sold or otherwise disposed of. During the season of 1912 no bills were posted anywhere, not even on the stall of the horse. He was moved about as before and mares were served at the owner's farms, the horse returned at proper times to try the mares again. I bred

Pull 100 Stumps A Day—With The Hercules



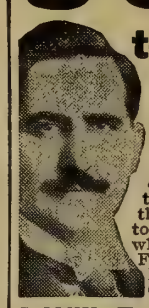
YOU can clear an acre or more of stumps a day. No stumps can resist the Hercules. Doubles land value—enables you to make $1200.00 on 40 acres the first year after stumps are out—and $750.00 in crops *every* year after. Get the proof. Why not

Write Us Now

Book tells all the facts—shows many photos and letters from owners—tells all about the many Hercules features. We'll also quote you a special money-saving price proposition that *will interest you.* Address

HERCULES MFG. CO. 141 21st St., Centerville, Iowa

COME to See Me at Waterloo!



Galloway wants you as his guest at Waterloo—COME! Jump on the train and come—quick—spend at least a day or two—stay a week if you like—go through the great Galloway Factories and see for yourself how and why Galloway saves his Farmer Friends big money on the best Engines, Manure Spreaders and Cream Separators.

I Will Entertain You at the Agricultural Club

Everything free—no expense. From the moment you get off the car at Galloway Station I foot the bills—you're visiting me. Stop at the $60,000 Agricultural Club built for the Farmers. Splendid meals; music; plenty of good company—over 500 of my farmer friends here last week!

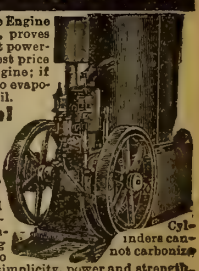
No Obligation to Buy!

Just come and look around—enjoy yourself to the limit—but remember you're under no obligation to buy any Galloway goods—not the slightest. I'll show you the finest chain of factories you ever saw, explain everything—give you my lowest special factory-to-farm, one-small-profit prices. If you see a big bargain and want it, all right—if not, all right. Just suit yourself!

If You Can't Come to See Me Now, Write Any Way!

Wm. Galloway, Pres. Wm. Galloway Co.
10C Galloway Station, Waterloo, Iowa (227)

Use KEROSENE Engine Free!



Amazing "DETROIT" Kerosene Engine shipped on 15 days' FREE Trial, proves kerosene cheapest, safest, most powerful fuel. If satisfied, pay lowest price ever given on reliable farm engine; if not, pay nothing. No waste, no evaporation, no explosion from coal oil.

Gasoline Going Up!

Gasoline is 9c to 15c higher than coal oil. Still going up. Two pints of coal oil do work of three pints gasoline.

Amazing "DETROIT"

—only engine running on coal oil successfully, uses alcohol, gasoline and benzine, too. Starts without cranking. Only three moving parts—no cams—no sprockets—no gears—no valves—the utmost in simplicity, power and strength. Mounted on skids. All sizes, 2 to 20 h. p., in stock ready to ship. Engine tested before crating. Comes all ready to run. Pumps, saws, threshes, churns, separates milk, grinds feed, shells corn, runs home electric lighting plant. Prices (stripped), $29.50 up. Sent any place on 15 days' Free Trial. Don't buy an engine till you investigate the money-saving, power-saving "DETROIT." Thousands in use. Costs only postal to find out. If you are first in your neighborhood to write, you get Special Extra-Low Introductory price. Write! (138)

Cylinders cannot carbonize.

Detroit Engine Works, 371 Bellevue Ave., Detroit, Mich.

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For all purposes. Direct from factory, freight prepaid.

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Get our new fence book before you buy fence for Horses, Cattle, Sheep, Hogs, Poultry, Etc.

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From ground planted secured by use of The KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for CATALOG, price, etc.

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BOX H STERLING, ILL.

P&O

LIGHT DRAFT PLOWS

THE draft of a plow depends nearly altogether upon the construction of the bottom, the shape of the share, the curve of the mold, and the position of the side plate. These necessary details must be worked out on a scientific basis, the secrets of which can only be discovered by actual experiments in the field. As the soil differs, so also must the shape of the plow. The greater the variety of soils the greater the number of plows necessary to meet the conditions.

P&O Gang Plow.

P&O Light Draft Plows have been on the market since 1842, and all the experimental work in designing plow bottoms was accomplished years and years ago. Today there is a P. & O. plow for every kind of soil, for every condition of these soils, in all standard sizes—walking, riding and engine gang, with every kind of attachment.

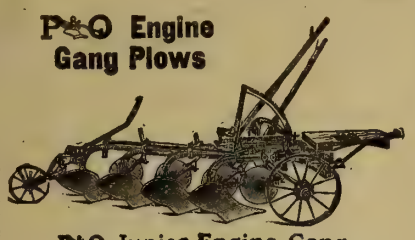
P&O Light Draft Plows are standard and supreme—made so by the use of the highest priced material, and our advanced methods of manufacture.

WE make no tools in which we take a greater pride than in the P. & O. Engine Gang Plows, made in several styles, both Mold and Disc, and in sizes from four to twelve furrows.

The P&O Mogul

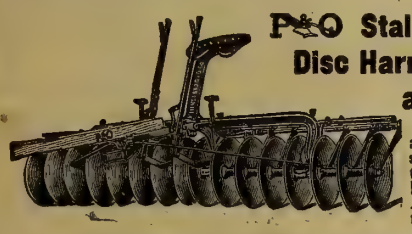
Is made with an individual lever for controlling each bottom. The levers all point to the center of the platform. This and five other patented features are exclusive, and cannot be found on any other make. The Mogul is made from five to twelve bottoms.

P&O Engine Gang Plows



P&O Junior Engine Gang.

The P. & O. Junior Engine Gang Plow is made for three furrows with a fourth bottom as an attachment. All bottoms are controlled with one lever. One man can operate both engine and plow. The P. & O. Disc Engine Gang is made with four or six discs, and with a platform for the operator.



P&O Stalk Cutters, Cultivators Disc Harrows, Corn Planters and Potato Diggers

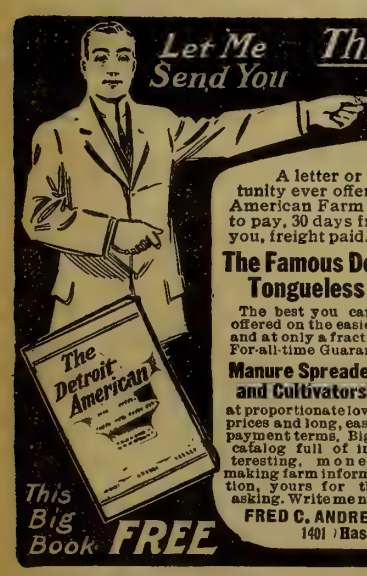
We make a complete line of tillage implements, suitable for all soils and conditions. Remember that P. & O. Implements have been used by three generations of American farmers, and that everything we make is

Backed by an Unqualified Guarantee.

ASK YOUR LOCAL DEALER for P&O Implements and then insist on getting them. When you are ready to invest in farm implements, buy the best—the P&O line. We will gladly send P&O catalogs and other literature to any address. Write us your wants

Parlin & Orendorff Co., Canton, Illinois

P&O



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A letter or postal brings the greatest money saving opportunity ever offered. I will tell you how to get the famous Detroit-American Farm Implements at factory prices. Your own time to pay, 30 days free trial, without a cent of expense to you, freight paid.

The Famous Detroit-American Tongueless Disc Harrow

The best you can buy at any price, now offered on the easiest terms in the world and at only a fraction of trust prices. A For-all-time Guarantee protects you.

Manure Spreaders and Cultivators

at proportionate low prices and long, easy payment terms. Big catalog full of interesting, money making farm information, yours for the asking. Write me now.

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Lower even than wholesale. Direct from factories to you. Don't delay getting my big special offer.

FRED C. ANDREWS, Gen. Mgr. American Harrow Co.
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RUBBER ROOFING Delivered Free

TO ANY STATION EAST OF ROCKY MOUNTAINS

except Texas, Okla., Colo., N. D., S. D., Wyo., Mont., N. M., La., Ga., Ala., Miss. and Fla., on all orders of three rolls or more. Special prices to these States on request. Highest quality guaranteed—we don't sell seconds, remnants or mill-ends.

One-Ply, weighs 35 lbs., 108 square feet, per roll, **$1.10**
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TERMS CASH. We save you the wholesalers' and retailers' profit. These special prices only hold good FOR IMMEDIATE SHIPMENT. Write for free samples or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to the Southern Illinois National Bank. Address,

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three mares early and two late. The stallion was brought to my farm regularly until the three mares were known to be with foal. The last two mares were served but once and the horse was not brought again, but was sent to another neighborhood and put to work on a gang plow. I notified the owner to bring the horse and try the two mares, but it was not done and the two mares are not with foal, and I want to sell them. Can I be held liable for the service fee of these two mares?

Answer.—We think under the circumstances, you cannot be held liable for the service fees of the two mares which are not with foal.

ADVERSE POSSESSION—SIDEWALKS.

A Subscriber, Forest City, Iowa.—A has had actual and peaceable possession of about eight feet of a street in an incorporated town for the past thirty years. (1) Can the town council compel A to remove his cement walk and rebuild it within said eight-foot strip? (2) Have the town authorities a right to cut trees that are in the way of the sidewalk line?

Answer.—(1) The supreme court of Iowa has decided that mere possession or occupancy of land belonging to a city or town with full knowlege of the occupant that he has no color of right thereto does not give him any prescriptive right or title by adverse possession, therefore the town council can compel A to remove his cement walk and rebuild it within the eight-foot strip. (2) The town authorities have a right to cut and remove trees which are in the way of the sidewalk line.

RIGHTS OF CROPPER.

Mrs. ———, Maxwell, Iowa.—Last spring I rented to a neighbor four acres of land on which he raised corn. He is not living on the land. Can he hold the stalk ground until the first of March, 1913?

Answer.—Your neighbor is a mere cropper tenant on the four acres. Under the laws of Iowa his term as tenant expires when his crop is harvested or gathered, and not later than the first day of December, 1912. He has no right to pasture the ground at any time. You have a right to take possession of the ground at any time after December 1, 1912.

PERSONAL PROPERTY—NOT FIXTURES.

A Subscriber, Mitchellville, Iowa.—B rents a farm in Iowa owned by A. The hay track in the barn is furnished by A. B furnishes the rope, fork and pulleys. The rope is taken down when not in use. During the season the farm was sold to C. (1) Can B remove the rope and fork when he leaves the place? (2) If so, can C compel A to replace them? (3) Can C prevent B from removing the cistern pump which is owned by B and not fastened to the platform? (4) If B gets a bill of sale for the articles mentioned, must it be dated at the time of purchase?

Answer.—The rope and fork are not fixtures belonging to the farm, but merely personal property owned by B, and he has a right to take them away when he leaves the place. (2) C cannot compel A to replace them. (3) He cannot. The cistern pump is also personal property belonging to B, which he can remove when his term expires. (4) It is not necessary for B to get a bill of sale for the articles, but if he does so it should be dated when purchase is made.

AUTO AND DOGS—ACCIDENT.

A Subscriber, Perkins, Iowa.—A keeps two dogs which are a nuisance to auto drivers on the public road. A has been warned twice to keep his dogs off the road, but pays no attention to it. In going to town in his auto B has to pass A's place. If B should have an accident on account of the dogs, could he recover damages from A? Has B a right to shoot the dogs?

Answer.—B could recover damages for an accident caused by the dogs, but he has no right to shoot them. The dogs are more likely to meet with an accident than the auto.

COLLECTION OF DUE BILL.

Mr. Clark Lane, Prophetstown, Ill.—I have a due bill from an Iowa seed house with a previous agreement to return seeds if not satisfactory. Payment of the due bill has been refused. How can I collect it in money without suit?

Answer.—There is no way by which you can enforce payment without suit. You might send the due bill to some collecting agency in Iowa, and see what it could do about collecting it.

MONEY SUBJECT TO TAXATION.

A Subscriber, Milton, Iowa.—Where a person has money in the bank which draws no interest and must be checked out soon, is the money subject to taxation in Iowa?

Answer.—Such money is subject to taxation, but the person may have deducted therefrom the amount of debts which he actually owes.

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This Fine $55.00 BUGGY only $29.50

MUTUAL BUGGIES are recognized everywhere as standard—proven the best. Only line guaranteed for 5 years. Sold direct cutting out middlemen's profits and saving you $25.00 to $45.00 on each buggy.

This Fine Model $29.50 Retails at $55.00
Style C. L. Only
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Other styles have twin auto and triple auto seats, with automobile top. Also Surreys, Spring Wagons, Farm Wagons, Farm Trucks, etc. All at lowest wholesale prices—sent on approval—Guaranteed to please or your money back.

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Single buggy harness $5.25 per set up; double, $14.10 up; work harness, $19.00 up.

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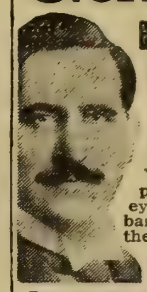
Galloway



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Right now's the time, boys, to take that little trip to Waterloo. You've got the time, and it will pay you big to see with your own eyes the wonderful money-saving bargains to be snapped up right in the big Galloway factories. Bill says

"Come to Waterloo"

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A great sight! Worth traveling many miles to see. I will show you through an enormous chain of factories—largest in the world selling direct to farmers—hundreds of men turning out a flood of Engines, Spreaders and Cream Separators where only a few years ago was a cornfield on the edge of Waterloo. Don't miss this!

I Will Expect You Sure!

Now, don't disappoint me. I'll look for you and will made your visit a big surprise. You'll go back and tell your friends: "I never had such a fine vacation." If you can't come just now, write me why.

WILLIAM GALLOWAY, Pres.
WILLIAM GALLOWAY COMPANY
10E Galloway Station, Waterloo, Iowa (247)

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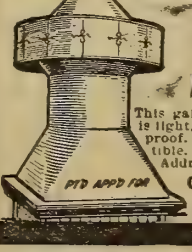
More money for you this year if you give your stock plenty of good, pure air.

Saves money by increasing health of stock, makes food go farther and do more good. Get the best—the



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Big demand for trained men. Earn from $75.00 to $150.00 per month. Learn all about automobiles in six weeks by

THE "SWEENEY SYSTEM"

of practical experience. In our machine shop, garage and on the road you learn by actual experience how to repair, drive, demonstrate and sell automobiles.

FREE—Write today for catalog and certificate, entitling you to free $50 course in running traction engines—we own two tractors. Only auto school in the world teaching tractioneering. Send name today.

SWEENEY AUTO SCHOOL,
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Chalmers 1913
MOTOR CARS

Made in Chalmers Shops

Let's Reason Together —*About Price*

To you who are considering buying a motor car, we want to offer a few suggestions on the subject of price. They are based on the experience of thousands of buyers.

First of all: Buy a real car. Don't economize too closely on the purchase price. Economy is not merely spending the least money. And buying an automobile at too low a price is the worst economy in the world.

If a man is going to pay $1000 for a motor car, he surely is not so pressed for funds that he could not add enough more to that $1000 to get him a really high grade motor car—a car of genuine quality. The additional cost, distributed over the years he will use the quality car, is nothing compared to the satisfaction of owning it from the start.

If you don't get a car of real quality to start on, you will surely want one later. Many who purchase low priced cars graduate from what they buy to what they should have had to begin with. But in doing this they pay from $300 to $600 for so-called "automobile experience."

You don't need this costly experience. Save the money. Buy a quality car to start with.

Examine the 1913 Chalmers "Thirty-Six" at $1950, fully equipped, and see if you really are not money in pocket by laying out the extra few hundred dollars in the original purchase price rather than buying a car at a lesser price only to trade it in later on at a big discount.

Note these splendid features of the 1913 Chalmers cars:

Electric lights, Turkish cushions, Nickel trimmings.
4-forward speed transmission, 11-inch upholstery.
New flush-sided bodies, Chalmers self-starter.
Demountable rims, Long stroke motor, Big wheels and tires.
Carburetor dash adjustment, Speedometer.

"30" (4 cyl. 30 h. p.), $1600 "Thirty-six" (4 cyl. 36 h.p.), $1950
"Six"(6 cyl. 54 h. p.), $2400
(*Fully Equipped. F. O. B. Detroit*)

Chalmers Motor Company
Detroit, Mich.

This monogram on the radiator stands for all you can ask in a motor car

Please send "Story of the Chalmers Car" and catalog of 1913 cars

Name.....

Address..... I. H.

Burpee's Seeds are supplied every year direct to more American planters than are the seeds of any other growers. Do your seeds come direct from Philadelphia? If not, we should like to make your acquaintance. Simply send us your address (a postal card will do) and you will receive **Burpee's Annual for 1913,**—a bright book of 180 pages, which has long been recognized as "The Leading American Seed Catalog." Kindly **write to-day!** Address

W. ATLEE BURPEE & CO., Burpee Buildings, Philadelphia

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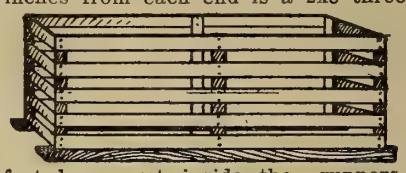
Publisher THE HIGHWAY MAGAZINE, 529 Walnut St., Cincinnati, Ohio

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A PORTABLE MANGER.

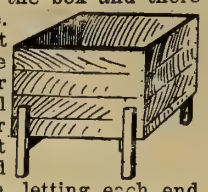
Here is a portable manger that one farmer has found very beneficial in feeding hay, fodder and other roughness about the farm. Of course it saves waste resulting from feeding on the ground. In one season this manger will pay for itself in feed that is saved. If it can be made of oak boards, so much the better, as it will last much longer. The runners are 2x8-inch stuff, fourteen feet long. Shaped at the ends like a sled runner. Six inches from each end is a 2x8 three



feet long, set inside the runners. A third 2x8 is spiked inside the runners at center. On top of end and center braces are nailed 2x4s flat side down. In each corner a 2x4 upright two and a half feet high is made stationary, also one at center of each side. Three four-inch boards are nailed to the uprights. Holes are bored in the ends of the runners and heavy wire inserted to which single tree is attached whenever it is desired to move the rack about on the farm.

A Box Hay Manger.

Perhaps there is a large box about the place that could be converted into a hay manger. Instead of throwing the hay on the ground for horses or cattle, when feeding outside of the barn throw it into the box and there will be no waste. Set two pairs short posts into the ground the proper distance apart. Nail a 2x4 to each pair the proper height from the ground



and set the box in, letting each end rest on a 2x4. Nail the bottom of the box to the 2x4s beneath. If this is located beneath the shade of a tree, it will be a good place to feed on a hot summer's day instead of in the barn. A horse could eat grain from the box as well as hay.

A Dog House.

The farmer who has a faithful dog should care for him, so that the dog will not suffer in the cold weather and always have a good place to sleep. A convenient house for a dog can be made with but little effort or expense on the part of the farmer. A house 3x4 feet will be large enough. It can be set on the south side of some building where it may be protected from the storms. A little straw or some old rags will furnish a good bedding. The frame of the house can be made of 2x2-inch material and the cheap grade of siding will answer the purpose. The farmer will get a good deal of satisfaction in knowing that the dog that saves him so many steps in the day time and guards his home at night is comfortable in the cold weather.

Some Convenient Water Gates.

A good plan for a water gate is to have two swinging gates made the desired width and length out of four-inch lumber. These can be easily swung to a pole spanning the stream and resting on either bank. When the water is of considerable depth in the stream after a freshet the gates will swing out by the force of the current and let the water pass, then swing back to a natural position after the stream goes down. Another gate may be made by boring inch-and-a-half or two-inch holes in the pole spanning the stream and inserting stakes in these, their length depending on depth of stream. The lower ends of stakes may be inserted in holes bored in a two-by-four-inch piece. The force of the current will turn the pole and elevate the stakes to permit the water to pass. By setting the pole in the bottom of the stream, stakes may be placed so that they will project upward. No piece should be put across their ends, but it will be a good plan to sharpen the stakes. When the current of water strikes them it will turn the pole and water and all trash will pass over. One must make the pole secure and be certain to turn the pole so that stakes will be perpendicular after freshet.

ILLINIOS LIVE STOCK BREEDERS MEET.

A most interesting and largely attended meeting of the Illinois Live Stock Breeders' Association was held at Springfield, February 4th, 5th and 6th. This association, which is comprised of the horse breeders' association, the cattle breeders' association, the swine breeders' association, the sheep breeders' association, the cattle feeders' association, and the dairymen's association, has had a growth in the past few years, and the attendance this year of about 300 was very gratifying.

The meeting opened Tuesday morning, and after the president's address had been listened to the session was turned over to the members of the Illinois Cattle Feeders' Association, Deane H. Funk presiding, and E. P. Hall, Mechanicsburg, who had the champion car lot of steers at the last International, read an interesting paper on "Feeding the Champions." The afternoon of the first day was given over to the Illinois Horse Breeders' Association, with Theodore M. Smith presiding. Two interesting papers were read, one "The Development of the Draft Foal," by Don Robinson, of Pekin, and the other "One Phase of the Mule Business," by Ira Sharp, of Sharpsburg. Following the discussion of these papers Dr. J. H. Jensen, Kan-

sas City, Mo., read a very interesting and exhaustive paper on the recent horse epidemic among western horses. A tuberculosis demonstration was held late in the afternoon, and in the evening Walter Williams, LL. D., dean of the school of journalism of the university of Missouri, delivered a lecture entitled "On the Sky Line of the State."

Wednesday morning's program was opened by the Illinois Sheep Breeder's Association, and A. J. Knollin, Chicago, contributed a most exhaustive paper on the different phases of the sheep industry. Following the sheepmen the Illinois Cattle Breeders' Association held the floor, with A. A. Armstrong, of Camargo, presiding, and A. Renick, general manager of the American Short-horn Breeders' Association spoke on "Pure-Bred Cattle on the Farm," while J. F. Prather, of Williamsville, talked about "Cattle as a Factor in Increased Crop Production."

Wednesday afternoon the session was taken up by the Illinois Swine Breeders' Association, with W. S. Corsa, of Whitehall, in the chair. Dr. M. Dorset, of the United States Department of Agriculture, delivered a very interesting talk on "Legislation Relating to Hog Cholera." followed by a general discussion of the hog situation and the value of the vaccination process as a preventive of hog cholera.

The meeting closed with a banquet in the evening at which President Phil Haner was toastmaster, and addresses were made by A. J. Lovejoy, R. J. Stone, W. S. Corsa, J. J. Ferguson, Hon. H. S. Magill, Prof. W. C. Coffey, Harry M. Snape, secretary of the Springfield Commercial Club, and C. R. Taylor.

One of the closing acts of the association meeting was the adoption of a resolution looking toward the enactment of legislation that will prevent Illinois being, as at present, the dumping ground for diseased stock. The committee on legislation was instructed to work for laws excluding diseased cattle from Illinois, and requiring all breeding cattle to be examined when shipped and again when they enter the state.

Officers for the ensuing year were elected as follows:

Illinois Live Stock Breeders: President, Phil S. Haner, Taylorville; first vice-president, J. W. Garvey, Thayer; second vice-president, F. P. Springer, Springfield; third vice-president, R. J. Stone, Stonington; secretary, B. T. Abbott, Morrison; assistant secretary, Dr. A. T. Peters, Springfield; treasurer, Charles R. Taylor, Williamsville; executive committee, J. E. Caldwell, Williamsville; Charles R. Taylor, Williamsville; E. C. Stone, Peoria; A. J. Lovejoy, Rockford; W. S. Hanshine, Urbana; Eugene Funk, Shirley.

Illinois Cattle Feeders' Association: President, Clyde Ford, Geneseo; secretary, H. P. Rusk, Urbana.

Illinois Horse Breeders' Association: President, Theodore M. Smith, Auburn; secretary, I. A. Sinclair, Cornell.

Illinois Sheep Breeders' Association: President, R. J. Stone, Stonington; secretary, Grant Fowler, Armstrong.

Illinois Dairymen's Association: President, J. P. Mason, Elgin; secretary, W. G. Cavan, Chicago.

Illinois Cattle Breeders' Association: President, Rank C. Forbes, Henry; secretary, D. J. Hickey, Bradford.

Illinois Swine Breeders' Association: President, G. L. Burgess, Bement; secretary, J. Y. Caldwell, Williamsville.

The 1914 meeting of the association will probably be held in Peoria.

IMPROVEMENT OF HIGHWAYS.

A matter touching vitally the agricultural, commercial, educational, social, religious and economic welfare of Illinois, and involving the conservation of natural resources is the question of good roads. In the improvement of public highways Illinois has been backward.

Reports of the federal department of agriculture show that about 10 per cent of the 95,000 miles of Illinois roads are improved in a permanent manner, as against 38 per cent in the neighboring state of Indiana, 20 per cent in Wisconsin, 20 per cent in Kentucky, 28 per cent in Ohio, and 50 per cent in Massachusetts. Considered from the standpoint of improved roads, Illinois is the twenty-fourth in the list of states.

The loss to farmers because of inaccessible primary markets and the abnormal expense of transportation due to bad roads must be considered as a contributing cause of the high cost of living. In some Illinois counties highways are impassable to ordinary loads for a full third part of the year.

Bad roads not only hinder crop production and marketing, but they keep the rural consumer away from the store of the merchant for weeks at a time. They keep pupils from the schools and voters from political gatherings and from participation in elections. They impair the efficiency of churches and social, fraternal and other organizations which depend largely on public gatherings for the efficacy of their work.

Bad roads contribute to the unattractiveness, the isolation and the monotony of country life that are responsible for the desertion of rural pursuits, especially by the young. Experts in mental ailments agree that women in remote sections are the chief sufferers from the restriction of communication and social intercourse which bad roads impose.

Highway conditions in Illinois are due to the fact that progress in methods of transportation and travel has not been met with corresponding changes in our system of road building and maintenance. Illinois clings to the obsolete practice of placing the burden of highway improvement on the townships. Other states in their laws have appreciated that highway travel is no longer entirely local and that the main arteries carry a great amount of inter-county and interstate traffic. Permanent improvement of the main arteries, which carry the great bulk of traffic, is a problem which affects the general welfare, and these states have established successfully systems of state aid on such highways.

I recommend for your consideration legislation which will promote the efficiency and economy of the administration of the road system of the state. This legislation, I believe, should incorporate provisions for state co-operation with counties and townships in the construction of main highways and bridges; and the proper maintenance of all roads after they are built; for the compulsory dragging of all dirt roads, and for the use of the state automobile tax as a nucleus of a fund for such state aid. —[Governor Dunne, of Illinois, in his inaugural address.

IMPROVING OUR DRAFT HORSES BY MEANS OF COLT SHOWS.

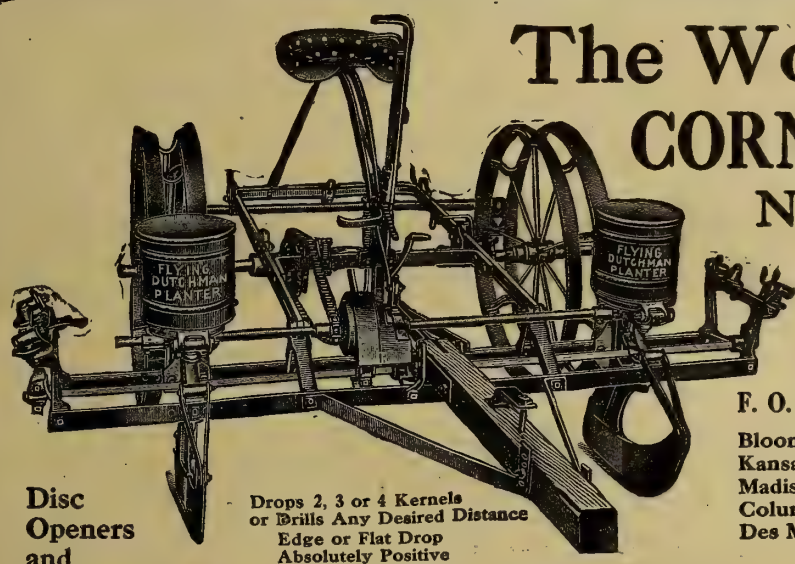
(Continued from page 3.)

put into a clean, disinfected box stall, and given needed help. Many foals which are vigorous at birth are ruined through inattention during the first few days of life. The navel cord should be disinfected immediately with strong corrosive sublimate, made up by mixing two grams of the powder in a pint of boiling water. When it has cooled two drams of tincture of iron are added. The solution should be labeled "poison." The external organs, tail, and hind parts of the mare, including udder, should be washed daily for the first week with a 2 per cent solution of some coal-tar disinfectant. The intestines of the foal too should be promptly cleared of the sticky meconium they contain at birth. Few really feed a colt properly. They let it run with the mare, and expect it to thrive on milk and grass alone. As a matter of fact, the colt must be well fed on nutritious food so as to grow rapidly. Gains are never made cheaper than when the animals are young. Grain is absolutely imperative.

The Australian ladybird beetle came into California to destroy the white scale in the late '80's, and this was followed by the carriage of the same species of beetle, with equally good results, to Portugal, to Italy, to South Africa, and quite recently to Formosa, in all cases destroying the same scale insect. Another instance was the importation from Autralia of certain parasites of the sugar-cane leaf-hopper into Hiawaii, which is said to have resulted in the reduction of the leaf-hoppers to a negligible quantity. A gigantic experiment of the same kind is now being carried on in the importation of the parasites and natural enemies of the gispy moth and the brown-tail moth from all of Europe and from Japan into the New England states. A number of species have already been introduced and acclimated, and admirable results are expected from this work.

"An old-fashioned wood chopping was held at the home of Aunt Jane Thatcher near Smithville, a few days since," says the Liberty, (Mo.) Tribune, "the neighbors assembling and while the men piled high the stove and hearth wood the women folks were preparing a big country dinner. Time was when this was a common event in the country, but wood has become so scarce that enough cannot be gotten together to make an hour's chopping for a few lusty young fellows."

A bill has been introduced in the Nebraska Legislature to prohibit turkeys from running at large.



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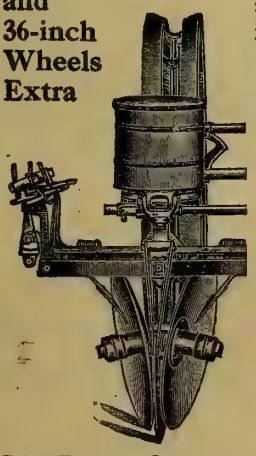

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No matter how much you pay for a Corn Planter, you can't get as good a Planter as the Flying Dutchman, which now sells for $35.00 Cash. For accuracy of drop, durability and general satisfactory work you can't equal it at any price.

The reason why we can make this extremely low price is that we figured that could we double the output of our Planter department, we could materially reduce the manufacturing cost. This we have accomplished and have kept this department running continuously since corn was planted last year, while most other factories were shut down. We are now giving YOU the benefit of our saving in the cost of manufacture.

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The Flying Dutchman Planter is known by the army of farmers who are using it as "The Planter Without a Fault." It actually gives faultless service, year after year under any conditions.

It drops 2, 3 or 4 kernels in a hill with positive and unvarying accuracy and can be instantly changed from one to another while the planter is in motion, thus planting the proper number to meet varying soil conditions—insuring a big crop.

No matter how slow or how fast you drive, the seed is always dropped in perfect check and never scattered.

It is very simple in construction—a small boy can easily understand it—not a thing to get out of order or cause delays—always accurate and ready for use.

It is so well made that it will last longer and give better service year after year than any other planter.

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It combines every advantage of the single disc for cutting trash and penetrating hard ground, with every advantage of the shoe for forming a furrow and depositing the seed. The Disc Shoe Furrow Opener is the *only* one that sows every seed at an *exact, even depth,* in a *packed furrow.* No seed touches the disc and no dirt falls back into the furrow until *after* the seed is deposited. No practical, progressive farmer can fail to see the many money-making and money-saving advantages of this wonderful Disc Shoe Furrow Opener—found *only* on

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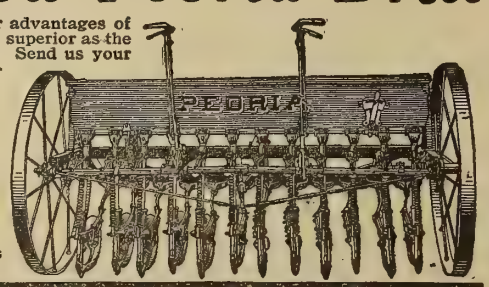

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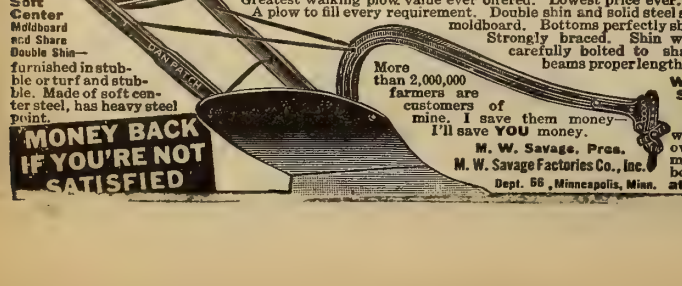

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

HOW I RAISE BUMPER CROPS OF SWEET POTATOES.

To the Editor of The Homestead:

I always select a hillside of a southern exposure when ready to make a hotbed. Lay off a diagram of the bed, making it five feet in width and as long as is wanted. I usually make the beds about seventy-five feet long. After a diagram of the bed is laid out take boards six inches wide and one inch thick, set them up on edge around the diagram of the bed, making them solid in place by driving staves of wood eighteen inches in length down in the earth on each side of them. Now spade out about five inches of the earth, piling it up against the boards on the outside. This pile of dirt will drain the surface water off before it comes in contact with the bed. Next put about four or five inches of good, fresh stable manure in the bed, tamping it down solid, and if the manure is not wet it is best to give it a good sprinkling of water. Then spread a coat of earth from the field about an inch thick over the bed. We must now go to the forest and get a load of good, loose, rich soil or leaf mold, and spread a coat of about two inches over the bed.

On selecting seed I always choose potatoes as near the same size as possible, with a smooth, fine grain, free from disease and from two to three inches in length and about one and one-half inches in diameter. To insure a quick slipping of the seed we must rub off all the sprouts before bedding them, the reason of this being that if the tubers are bedded with sprouts on them these will die and thus delay the slips. If the sprouts are taken off before bedding, there will be no time lost.

In placing the seed in the bed we must leave plenty of space between the tubers to insure a good, strong, thrifty plant. If we put the seed too close together, the plants will be thin and sickly, and will not do well. While on the other hand, if given plenty of spacing in the hotbed the plants will be strong and thrifty and will grow much better after transplanting. When the seeds are all properly arranged in the bed, spread a coat of three or four inches of good, loose, rich soil from the forest over the tubers.

The covering for the bed may be either glass or canvas, the canvas being much the cheaper. If canvas is to be used we must put in a ridge pole. Then stretch the canvas leaving three and one-half feet exposed to the south and one and one-half feet exposed to the north, the reason is that the canvas thus arranged will turn water much better than if given a full five-foot slant one way.

I bed my sweet potatoes in the spring season just as the forest is putting forth her foliage, and then the plants are ready to be transplanted in from ten to eighteen days, when the weather and the earth are warm and ready for the young plants to grow. We must not transplant too early in the season when the nights are yet cool, else the ants and other insects will destroy the vitality of the plant.

For the potato field I always select a field of a southern exposure and where the soil is not too strong. If the soil is too strong the tubers will be rough and of odd shapes, which are unfit for market. I think a field where corn has been cultivated the previous year is an ideal place for sweet potatoes. Pull the stalks and roots and remove them from the field. Break the ground as early as it is dry enough in the spring. Let it lie until about a week or ten days before you are ready to transplant. Then cultivate the surface and rebreak. Cultivate the surface again thoroughly. The sweet potato field needs lots of cultivation before planting. I make my potato ridges with a disk cultivator, making them eighteen inches across and ten inches high, after they have settled two or three days they are ready for the plants. The ridges should be made three and one-half feet apart

A Valuable Free Book on CLOVER

A gold mine of information

We have just published a wonderful new book entitled "Clover, the Great $Cash Money Crop$." This book is truly a most remarkable source of information on the subject of clover raising. For the first time the opinions and experiences of the world's greatest clover authorities and practical growers have been gathered together in printed form. Every question you can think of is fully answered. It tells you how to get a sure "catch" first planting; how to keep clover in the rotation; about clover as a soil enricher; how to handle the crop for hay and seed production; how to grow clover that makes richer feed—that produces more beef and more milk—that puts immediate cash money in your pocket. It explains the cause of clover failures; how to avoid winter killing; how to prevent ground heaving; how to guard against the loss from heat and drought; it tells all about the causes of "clover sickness" and how to deal with it. These and hundreds of other questions are answered, covering sixteen clover varieties, including Red, Mammoth, Crimson, Alsike, Sweet, White, Yellow, Japan, Berseen, Burr, Serradilla, etc.

This book is a gold mine of information to the farmer who is looking for bigger and better results. Ordinarily this book is sold for 35 cents per copy, but for a short time we will mail a free copy, postage prepaid, to the readers of this paper, or until a certain number have been distributed. If you will write at once you will be sure of getting a copy by return mail.

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Berries are sweet even when green, free from core and seeds, meaty and altogether delicious, wonderfully good to look at, and just as good to handle, to ship and to eat—high-priced and profitable.

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and yield immense crops afterwards. They are absolutely hardy in 40 degrees below zero. Macatawa plants $1 each, or 6 for $5. Only 6 to one person.

Send today for the 1913 Berrydale Berry Book. Full of valuable Berry information. Contains true descriptions of the Macatawa Blackberry, of Himalaya Berry and many other profitable berries you ought to grow in your garden or fields. Let me have a card for the book today.

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and the plants set from twelve to eighteen inches apart in the ridge, according to the strength of the soil. If a second crop of slips is to be pulled from a bed, we must be very careful in removing the first crop of plants. We can hold the tubers firm in the bed with one hand, and in this way it will save bedding the seed a second time, and the second crop of plants will come on several days earlier than if otherwise handled. The young plants should be transplanted within a few hours after they are removed from the bed. The soil should be in good working condition at the time of transplanting, but not by any means wet. Some people have a practice of wallowing the roots of the plants in mud before transplanting, but this is a mistake and should not be done. They should be transplanted just as they come from the hotbed. After transplanting we must not wait for the plants to start to growing before we cultivate, else they may be a long time starting to grow. When they have been transplanted a week or ten days they should be cultivated regularly once or twice a week, according to the season, until the plants have bunched and started out two or three vines from eight to ten inches long, when they are ready to lay by, leaving a good, large ridge somewhat larger than at the time of transplanting. J. A. S.

Illinois.

PREPARE FOR A DRY SUMMER.

No one can say that the coming summer will be a dry one, but this winter up to February fifth has been remarkable for a very light precipitation. It sometimes happens that a twelvemonth has the same general trend in weather.

The fruit grower may be now doing some things to guard against ill results, of a possible dry season, and the work so done will be no injury in any event.

Let young apple trees be liberally mulched, with straw manure if that material is available. If not to be had use old straw stack bottoms. Put it on deep, say six inches and for three feet about the trees, and it will retain what moisture we may have from spring rains and carry trees safely through a hot, dry season.

Also groves of young forest trees, either one year set, or to be planted the coming spring may be saved by the same kind of an application. In this case cover the ground completely, between the little trees, to a depth of six inches being careful to tramp it down closely along the rows. Some will say, I can conserve moisture by constant cultivation, and the dust mulch. True, you may do that, and yet the mulching plan, if thoroughly carried out, is just as effective in checking weed growth, and securing a rank growth of the young trees. And the mulching plan is the cheaper, we have tried both systems enough to have a decided preference.

Prepare for a dry season among the current and gooseberry bushes in the same manner a heavy mulching of manure or straw. But in case you can obtain coal ashes it is a good plan to apply them about half and half with the manure. These ashes are cooling, will retain moisture, and assist in the rotting of the manure, and at the same time will discourage weed growth. Current bushes so treated will have fruit one-third larger than bushes which stand year after year with no such aids to growth, and productiveness.

Raspberry bushes are another fruit bearer which suffer severely in dry weather. The fruit is greatly reduced in size, and much of it becomes seedy and not worth gathering, much of it drying up before ripening. This result is a needless disappointment, when right steps are taken to prevent it. No matter what system of culture you practice, you must take special pains to ward off drouth injury. If so situated that you cannot obtain straw, or manure, in sufficient quantity, you must practice the constant culture system. This makes it necessary that you keep the bushes in close rows, if not in hills. If you can get the straw at reasonable prices try the change of a heavy mulching this year. See for once if it is not cheaper and productive of better fruit than the old system. But remember always, that the job must be thoroughly done. You cannot scatter a little manure hastily and call them mulched. Put it on six inches thick and tramp it down about and in the hills.

Mulching pays better nowhere, than in the blackberry patch. From the nature of the bush it is difficult to keep this fruit in narrow rows. Many large blackberry growers do this, especially in sections where it is necessary to lay down and cover for winter protection. But in sections where the canes will stand the winter changes without injury the "go-as-you-please" system is productive of better results, meaning that the fruit

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~Potatoes~
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~Corn~
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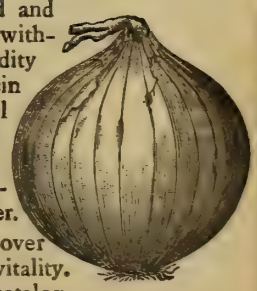

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crop is produced at a less cost per quart.

This system permits the bushes to occupy the whole ground, as far as can be expected, for blackberry sprouts space themselves pretty well. Under this plan paths must be cut at regular intervals, big weeds must be kept down, and the old brush cut out. But in a dry season this style of plantation will need mulching as certainly as the other. It will more surely need it, because cultivation will be impossible. If the weeds, old stalks, and clippings have been left to decay upon the ground, and this is usually done where there is no disease in the patch, the mulching material is in part supplied. But it will be well to reinforce this with straw well scattered, and spread out from the alleys, among the bushes. If you do this you may await the assaults of drouth with considerable confidence that you cannot have a complete failure.

M. E. Hinkley.

REPLANTING AN ASH GROVE.

A reader of this paper who is located at Curlew, Iowa, writes as follows:

I have a good grove of black ash and soft maple, now twenty-five feet tall. Some have died out. Would young trees grow in the shade among those tall trees? Which is the best, black or white ash? And how should the seed be planted, deep or shallow?

These questions touch some interesting points which many of our readers will be glad to have explained.

This subscriber says that the rows are ten or twelve feet apart, but he does not say how close the trees are in the row. We assume that they are much closer, probably two to four feet. Now think for a moment of the probable reason why some of the trees have died. Trees require considerable moisture, and room. When a close-planted row starts growth, they may all be of even size, but in two or three years some of the smaller ones have stopped growing, and in a little time more, they will be dead. Why? Because they were overcrowded, and starved to death.

The chances are ten to one that this is the case with your present grove, and if so would you think it of any use to plant new trees in place of those starved out? Decidedly not. You had much better plant the new trees, in a new grove, by themselves.

We would advise you to plant the green, or white ash, which is the more common along our prairie rivers and lakes. The black ash—true black ash—is an inferior tree, and less valuable at any stage of growth than the white ash. The white ash will grow large enough for a reach, or a sled tongue, while black ash of the same age, will only do for fish poles.

Ash trees are easily grown from the seed, and as the seed is usually very plentiful, they may be grown in any desired quantity. Gather the seed in October or November, better do it early as soon as ripe, for it wastes—blows off—during the fall storms. Have the ground prepared as for corn planting, well plowed, and pulverized. The rows may be about two feet apart. Make a drill, or furrow, not over an inch deep. Scatter the seed in this so that they touch. Cover with mellow earth, and roll down, or press down with hoe. Early in the following May the young plants will appear, about the same time that the ash trees begin to leaf out. If you cultivate these seedlings properly, keeping the weeds out and the soil loose, the trees will grow to the height of sixteen to twenty inches the first season.

The following year you may transplant the grove. In our experience we have found it best to plant four feet apart each way. This gives all the trees an even start, and when the grove is ten years old cut out every other row. In this manner you will secure a valuable grove, in which each tree will be good.

DEEP TILLAGE PROFITABLE.

To the Editor of The Homestead:

I notice a letter from an Indiana subscriber in a recent issue of your paper. I have made exhaustive tests regarding the value of deep spring plowing, with entirely different results from those reported by your correspondent.

Of course, Mr. Walker refers to ordinary plowing where the subsoil is turned completely on top of the top soil, whereas I used a deep tilling machine, which pulverizes and mixes the top with the bottom soil.

I measured my land depth of plowing carefully, as also the weight of the corn, so I know just what deep tilling is worth to me.

While I was using the plow, I had plenty of company, they came for miles. And the criticisms! Oh, they said. he will ruin the ground—it is too slow, etc.

I will now tell you of my test plots. The land I used the machine on is black prairie soil with a little clay knoll here and there. It was in corn last year and I plowed under a heavy growth of stalks. The ground is thoroughly tiled with a four-foot ditch every seven rods. I took thirty-five acres on the south side of the field, and divided it in six plots, as follows:

Plot No. 1.—This consisted of two and one-half acres and was plowed with a sulky plow six inches deep. The yield by weight was 120 bushels of corn, or forty-eight bushels per acre.

Plot No. 2.—Consisted of five acres plowed fourteen inches deep with a deep tilling machine. From this plot I got 366.4 bushels of corn, or 73.28 bushels per acre.

Plot No. 3.—Consisted of ten acres, which was deep tilled ten to twelve inches deep and yielded 760 bushels, or seventy-six bushels per acre.

Plot No. 4.—Ten acres were deep tilled

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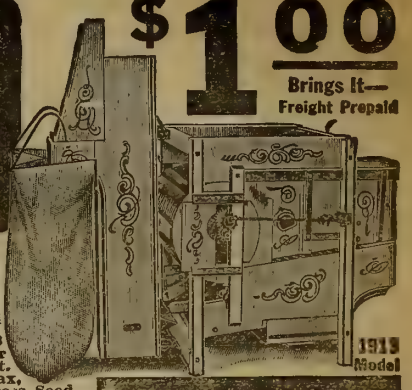

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Manson Campbell

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Send me one dollar and I will ship you, FREIGHT PAID BY MYSELF, this improved 1913 model Chatham Grain Grader and Cleaner with all equipment. Clean your Seed Wheat, Oats, Flax, Barley, Peas, Beans, Corn, Grass Seed, etc. Then PLANT those fine seed. AFTER you have harvested a bumper crop, pay me the balance of my low price. Not one penny need you pay, except the $1, until next November. And by November YOUR CHATHAM WILL HAVE MORE THAN PAID ITS ENTIRE COST in INCREASED CROPS. Then you'll have a "Chatham" to work FREE for you the rest of your life.

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If you want it. I don't want your dollar or want you to keep my "Chatham" unless it pleases you. If, after a 30-day test, you are not satisfied, return the machine at my expense and I will send back the dollar.

A Machine That Fits Your Farm

After 40 years' experience, I know every grain and noxious weed grown in America. I know the section where each one grows. I know every grain and weed that grows on *your* farm. Experience has shown that a Grain Grader and Cleaner should have special equipment for the particular farming section to which it goes. For example, I send an *entirely different equipment of screens*, riddles and gangs to Maine from what I send to California. In fact, *there are scarcely 2 states in the U. S.* to which *I send the same equipment*. Thus you get the exact and proper outfit to handle the grains and weed seed that grow on *your* farm. You *don't* have to pay for a lot of extras for which you have no use.

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In case you want more or different screens, just write me and I will send them free. Not a penny would I ask for extra screens and riddles.

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My 1913 Chatham handles over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc. Takes cockle, wild oats, tame oats and smut from seed wheat; any mixture from flax; buckhorn from clover; sorts corn for drop planter. Removes foul weed seed and all sunken, cracked or sickly grains. Takes out all dust, dirt and chaff. It is also a bully chaffer. Handles 60 bushels grain per hour. Gas power or hand power. Easiest running mill on earth.

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ten inches and yielded 800 b shels, or eighty bushels to the acre.

Plot No. 5.—Consisted of two and one-half acres plowed with sulky plow seven inches deep. The yield was 145 bushels, or fifty-eight bushels per acre.

Plot No. 6.—Five acres, which I tilled ten to twelve inches deep. This plot yielded 390 bushels, or seventy-eight bushels per acre.

To sum this up, I got 690 bushels more corn on the thirty acres that we deep tilled, than I would if I had used shallow plowing, or twenty-three bushels per acre more in favor of deep tilling.

I cultivated all these plots at the same time, with the same tool, using surface cultivation, but the deep tilled land was always in better shape, and has a better stand of corn.

It looks as if one should go from two to four inches deeper at each plowing and not try to go so deep all at once, but then I plowed in the spring; it would probably have been all right to go down twelve to sixteen inches if I had plowed in the fall, which I think is the better practice.

Indiana. J. D. Sturm.

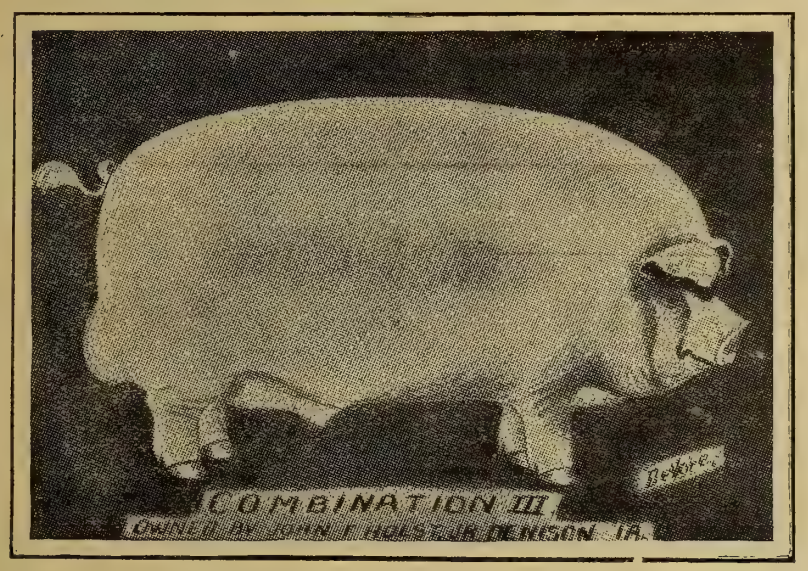
Iowa Aberdeen Angus Breeders' Meeting.

JUDGING by the enthusiasm displayed by the members of the Iowa Aberdeen Angus Breeders' Association at the annual meeting in Des Moines last week, the flag of the doddy hangs high in the Hawkeye state. The program as outlined by the o_cers was a most meritorious one and it was carried out to the very letter before a goodly size audience lasting well on into the second day. An inspiring address of welcome by Chief Justice S. M. Ladd, of the supreme court of Iowa, started the meeting off on the right foot while the response of the president, J. A. Arney, inspired every man present, including the speakers to carry out the program in such a spirit as to make the addresses of the greatest good to the greatest number.

In discussion "The Proper Care of the Cow for the Purpose of Producing Good Calves," Charles Escher, Jr., Botna, Iowa, emphasized fundamental principles that would be sound when carried out by beef raisers under a great variety of conditions. He attached a very great importance to grass and pointed out that economy in the growing of beef and the maintenance of sound constitutional characteristics in the breeding herd were insured when pastures were properly cared for and the herd allowed to graze during the greater portion of the year. According to Mr. Escher "grass is nature's feed for the cow as it furnishes during the summer season a complete ration in itself." Too much importance cannot be attached to the value of clover and alfalfa hay, corn stover, bright oat straw and ensilage, according to Mr. Escher. With these feeds little grain is needed in order to keep a breeding herd in healthy condition. Mr. Escher pointed out that the right kind of citizenship is found in all nations among that class who gave their time and attention to the raising and improving of live stock and he expressed the belief based on practical experience that after all live stock is the most profitable branch of agriculture that can be carried on in the corn belt.

Pursuing the same general line of thought, but beginning with the calf, E. T. Davis, Iowa City, emphasized the importance of taking good care of the calf whether it is raised for the feed lot or to be used as foundation stock for breeding purposes. "As the calf is raised the first ten months of its existence," said Mr. Davis, "so it will be the remainder of its life. If deprived of good feed and care in its young days it can never be developed into a first-class individual." It has been the experience of Mr. Davis that a calf even at a month old is ever ready to accept help from its master in order to bring about its own development. It should not only have the necessities, but also the luxuries of life during its tender years. It is not enough that it be allowed to follow its dam because in addition most profitable use can be made of grain. Comparing the two plans of raising the calf, namely, that of allowing it to run with its dam or on the other hand, turning it to its dam twice a day, Mr. Davis pinned his faith to the former plan. By this method labor is cut down and in these days labor is an important factor. Those who adopt the plan of letting the calf suck must exercise the greatest care at weaning time, otherwise much of the good flesh previously put on can be lost and such an animal can seldom be brought to a high finish at anything like the same margin of profit that would have resulted had the calf flesh been maintained throughout. Heavy feeding of grain and missing an occasional meal of milk at first and turning into new pastures, any of these plans, according to Mr. Davis, might be adopted so that the calf is eventually weaned without really taking it as a hardship. Above all things train the little fellow into the habit of living a quiet, inoffensive existence because this policy is consistent with the placing of the profit on the right side of the ledger at marketing time.

Few men are better able to discuss "The Care of the Calf from the Feed Lot to the Butcher" than H. J. Hess, Waterloo, and his address before the Angus breeders' meeting last week contained wholesome advice for every man who is interested in beef raising. Like Mr. Davis, Mr. Hess emphasized the great importance of jumping the "weaning time" gap so the calf does not fall off in flesh. The nice silky coat and the loose hide that is so characteristic of the thrifty suckling calf must be maintained. This can be done, according to Mr. Hess,



The above is one of the splendid Chester White herd boars at the head of the John F. Holst, Jr., herd at Denison, Iowa. See field note on another page.

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by the use of plenty of shelled corn and oats equal parts with about one pound of oil meal per head daily. In addition good clover hay was advised. After the twelve-month period is reached Mr. Hess believes that corn and cob meal can be used in a way to make economical gains, because it prevents the impaction of grain in the stomach which often impairs digestion. Ensilage may be used advantageously in the feeding of calves, but Mr. Hess pointed out that those who are anxious to make large gains must realize the fact that a calf cannot handle large quantities of bulky food. In other words, they cannot be used for scavenger work about the farm if they are to be ripened for market at an early age. Expensive barns are not necessary in the raising of good calves, but they should have a well-ventilated shed at all times. Plenty of air and light are absolute'y essential. Every need of the calf must be satisfied and this especially applies to placing before them at all times an abundant supply of fresh water and in addition they should have access to salt at will. At the age of twelve months Mr. Hess believes that the steers and heifers should be separated, as under this arrangement they will both the better meet the needs for which they are kept. The heifers are usually ready for market first and ordinarily can be made to weigh 800 pounds at twelve months. The steers on the other hand, should, in the opinion of Mr. Hess, be carried longer. If they were dropped in the spring they are ready at twelve months to go onto pasture and they should be turned out early when the grass is short so that they cannot gorge themselves. The feeding of corn and cob meal should be continued right along because it has the effect of offsetting the succulent character of the grasses. After a time the oats may be omitted as well as the oil meal, but hay should always be left in the racks. There is no reason why under this treatment, well-bred steers cannot be made to gain three and one-half pounds a day during the months of May and June with nothing but corn, grass and in addition a little clover hay. Through the summer it is a good plan to let the steers have access to a darkened shed where they will not be pestered with flies. This shed, however, should be well ventilated. Finishing in the fall is done with a little green corn in conjunction with old corn and possibly in the end they may be changed wholly to new corn. In addition two pounds of cottonseed meal or oil meal daily per head was advised and under this kind of treatment the right kind of cattle will be ready for the Christmas market in prime condition for the butcher, realizing as they should very close to the top of the market.

In discussing "Care and Disposal of the Carcass from the Butcher to the Consumer," Prof. W. H. Pew, head of animal husbandry department, of the Iowa Agricultural College, called attention to the great shortage of cattle in this country and to him this meant that the day of cheap beef is past and yet it was ever and always will be in demand. Accepting the belief "the beef eaters rule the world," professor Pew concluded that the beef industry would always rest on a sound foundation. To meet the needs of the future cattle of handy weight must be used or, in other words, the supply must come in the future from the yearlings. It was pointed out that the better class of meat was consumed in the larger cities while the cheaper meat found its way to the towns and smaller cities. Because of the great variety existing in the demands that came from all classes of society there is a market for all classes of meat. According to Professor Pew, the packer while he will buy all classes of cattle prefers those that are well finished and the margin between the two is generally sufficient to justify the feeder in finishing the cattle if they are the right type to begin with. Half fattened or poorly finished cattle are not popular with the packer because they dress out a poor percentage of carcass. A short-fed steer, one that has been fed from sixty to ninety days will dress out from 55 to 58 per cent, while a well-finished bullock will dress from 65 to 68 per cent. Advantage can only come to the producer from this disparity in dressing percentage when the policy of bringing cattle to a high finish becomes a fixed habit with feeders.

In assigning the topics for this program, "Influence of Sire over Progeny" fell to the lot of A. C. Binnie, Alta. Mr. Binnie's long experience as a producer of superior doddies enabled him to present this topic in a captivating and forceful manner. The male is half the herd, if he is a good one, and is the whole herd if he is a poor one, might be taken as the keynote of Mr. Binnie's views. In addition to superior fleshing qualities and good blood lines, Mr. Binnie gave special attention to the importance of the right kind of temperament or disposition in a male. Where a fretful or nervous animal is used in the herd too many of his offspring show the same undesirable characteristics, in many cases these being greatly accentuated. Masculine qualities are to be sought after always as prepotency in the right direction can be expected only from this type of male.

Although not present in person O. V. Battles, Maquoketa, Iowa, forwarded an address giving his personal experience in the Canadian show circuit. According to Mr. Battles all cattle must be tested by a federal inspector before they can cross the line and they must be shipped in bond, which bond prevents the owner from disposing of cattle without first procuring an import certificate from the government at Ottawa. His experience in the Province of Manitoba convinced Mr. Battles that the Angus breed is exceedingly well adapted to the conditions of that country. This is well attested by the fact that the grand champion steer at the recent International Exposition was from the McGreagor herd bred and owned in the Province of Manitoba. A comparison of the treatment received by showmen in the United States and Canada led Mr. Battles to conclude that we have much to learn from our neighbors on the north. The showman in this country has to pay on a minimum of 26,000 pounds per car. In Canada the minimum weight is $20,000 pounds although the length of the car is the same in each case, namely, fifty feet. In Canada the freight charges are half the regular tariff and you are returned to your home free after the last show. With justifiable pride Mr. Battles announced the winning of a silver challenge cup against all breeds at the Winnipeg show—an item of news with which possibly every one present was familiar and yet, it was received with much rejoicing and enthusiasm. After sendind his herd over a distance of 10,000 miles covering the Canadian show circuit Mr. Battle stated that his experience was fairly profitable, saying nothing of the pleasurable character of entering so many contests in a new country.

At the close of the program C. J. Martin was called upon to sum up the salient points brought out at the two-day meeting. This was done in a manner creditable to Mr. Martin and most enjoyable to the members of the convention. A resolution endorsing A. Sykes as a member of the Interstate Commerce Commission as a successor to Mr. Clarke was unanimously carried. The election of officers resulted as follows: President, W. J. Desenburg, Norwalk; vice-president, T. A. Stevenson, Shannon City; second vice-president, Dr. McCullough, Humeston; secretary and treasurer, Silas Igo, Indianola.

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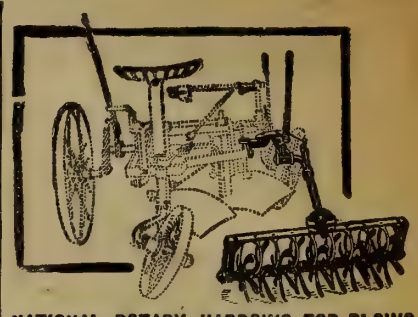

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Succulent Silage for Steers.

By G. H. Dacy.

THE price of hay, corn, and similar beef-producing feeds has advanced so rapidly during the last few years that many former beef feeders have abandoned the work of finishing steers for market. The rising popularity of corn silage as an efficient and inexpensive feed for the production of profitable beef is practically relieving the situation.

Plenty of silage in the beef ration usually induces cheaper and more gains while the succulent nature of this roughage keeps the cattle in good condition and causes them to shed their hair earlier and to look more attractive when they appear on the market than those animals that have been fed a wholly dry ration. In a recent feeding trial at the Pennsylvania Agricultural College twenty-four grade Short-horn and Hereford steers were divided into two lots of twelve animals each the steers in Lot 1 being fed approximately three-fourths of a full feed of ear corn for the first two months after which they were given all they could eat without waste for the remainder of the feeding period. Lot 2 was not fed any corn until the beginning of the third month when ear corn was added to the ration of silage and cottonseed meal in approximately the same amount as was fed to Lot 1 throughout the experiment. The ear corn was broken up to facilitate its consumption by the cattle while hogs followed the steers to pick over the wastes.

At the beginning of the test the average weight of the steers was 882 pounds and their average cost was $5.07 per hundred weight. The animals classified as fair to good feeding cattle. They showed evidences of an infusion of beef blood upon a scrub foundation. They did not possess the weight, quality, type, or condition of the best feeding cattle but were selected with a view to using steers of the type found on the average feeder's farm. They cost about $1. per hundred less than quotations of choice to fancy cattle upon the Chicago market at the time of purchase. Each steer was given all the corn silage he would consume as well as two pounds of cottonseed meal daily. The steers had access to an open end shed and a large open lot. The shed was well bedded all the time and fresh drinking water was constantly before the animals.

It is noteworthy that the steers ate less silage as the amount of grain was increased. In the case of Lot 2 upon the addition of 1,610 pounds of ear corn at the beginning of the third month the amount of silage that was consumed decreased 3,224.75 pounds. During the eighteen weeks that the beeves were fed, none of the animals were off feed. Weather conditions were exceptionally bad during the trial and at times badly frozen silage was fed. Even under these adverse conditions the cattle were constantly on the gain. It seemed essential that rations be made concentrated toward the termination of the finishing period in order that the cattle might continue to make rapid gains until the time they are ready for market. For this purpose shelled corn was found even superior to ear corn for use at the end of the fattening period.

The total amount of feed used by each animal in Lot I was 24.8 bushels of corn, 41.6 pounds of cottonseed meal, 2,550.4 pounds of corn silage. In the case of Lot 2 each animal consumed 13.5 bushels of corn, 41.6 pounds of cottonseed meal, and 4,365.8 pounds of corn silage. The gains in weight made by each lot were practically the same so that it may be assumed that 1,772.4 pounds of silage replaced 792.92 pounds of ear corn in feeding value. This indicates that a ton of silage was equivalent in feeding value to 894.6 pounds of ear corn, which at seventy cents a bushel would give the silage a replacement value of $8.94 when substituted for ear corn under conditions similar to those that prevailed in this test.

In this trial the amount of feed and dry matter required to make a pound of gain increased as the feeding period advanced even though the ration was made more concentrated and had an energy value. This is probably due to the difference in the character of the gain. In the early stages there is a filling up of the muscular tissue with water and proteids, but during the finishing period the gain is, for the most part fat, which has a higher energy value than any other substance in the body. The results indicate that the heavier silage ration was more efficient in producing gain, though the general appearance of the cattle indicated that Lot 1 was fatter at the close of the test, hence the difference in efficiency was probably due to a difference in the kind of material that was put on the carcass. The fat steers were classified as "handy weight" animals such as are in demand on the market throughout the year. A higher finish would have been more expensive and would have necessitated a longer feeding period.

At the end of the 126-day feeding period the steers in Lot 1 were sold for $7.20 while those in Lot 2 brought but $7. per hundred pounds. The net receipts from the former animals amounted to $875.58 while the net income from the latter group was $844.35. The average daily gain in each lot was about 1.86 pounds while the cost of the feed per hundred pounds of gain was $11.36 for Lot 1 and $9.02 for Lot 2. Each steer in Lot 1 received daily 13.81 pounds of ear corn, 2.09 pounds of cottonseed meal, and 22.54 pounds of silage while the animals in Lot 2 daily were fed 7.52 pounds of ear corn, 2.09 pounds of cottonseed meal, and 33.33 pounds of silage. The price received per bushel of corn fed after paying for the other feeds in the case of Lot 1 was $.761 while in Lot 2 it amounted to $1.046. The price received per ton of silage after paying for other feeds was $4.65 in the case of Lot 1 and $5.73 where Lot 2 was fed.

These results show that the feeding of corn silage develops profitable gains and that although there was a profit in feeding ear corn throughout the entire feeding period that a greater profit resulted when light plain feeders were carried for two months on a ration consisting entirely of corn silage followed with a grain ration towards the end of the feeding period. It is generally estimated that hogs following steers will gain two pounds for each bushel of ear corn fed to the cattle. If this credit was added to the net profit the income from Lot 1 would be increased $47.84 while that from Lot 2 would be larger by $26.80. Allowing $1 per ton for sawdust, $8 per ton for straw, and $1.50 per ton for manure there was an additional profit of $31.24 to that made from the direct feeding of steers and production of pork from droppings in Lot 1 during the feeding period. Silage can be advantageously used at all times as the sole roughage for fattening steers even during the coldest of winters. There is a marked saving of grain in the ration where plenty of silage is fed.

LEGISLATION ON ROADSIDE WEEDS.

Weeds and slough grass have no place on Iowa roads. Township trustees all over the state have been completely at sea as to the seeming impossibility of complying with the present statute relative to the mowing of the roads. Many of those recently elected are refusing to qualify because they do not care to subject themselves to the possibility of heavy fines for failure to carry out a law whose intent is excellent, but which has proven impracticable. Five hundred and fifty to six hundred acres of road to be properly mowed at such time or times as may be necessary each season creates too heavy a demand on the township treasury, unless taxes should be considerably increased.

Of course, the ideal way is to have the public pay for the care of the roads, but the ideal is very often not practical and the long experience of towns and cities has proved that the only feasible method is to require a lot owner to keep his own part of the sidewalks cleaned. We are discovering that the same principle holds true with regard to the roads. The large number of landowners who appreciate neat surroundings mow their own roads anyway, and as the law now stands, they also are required to contribute their part of the taxes used in mowing in front of the premises of their less public-spirited neighbors. This is unjust.

The bill as introduced by Representative Bingham corrects this injustice by making the landowner primarily responsible for the mowing. In case he does not do so within the time limit, however, it becomes the duty of the township trustees or other responsible road overseer to hire the necessary men and teams, at not to exceed $7 per day for the man, team and mowing machine or $3.00 per day for man and scythe, the money so paid out to be assessed to the abutting land and collected with other taxes. The permissable pay is fixed at these rates for the double purpose of making it an object, from the standpoint of economy, for the landowner to do it himself, and also to enable the trustees to offer whatever reasonable pay may be necessary to get the work done.

As a preliminary to requiring the mowing of the roads by the landowner, the bill provides that the trustee shall, wherever practicable, put all old barrow pits, careless graders' roadside gouges, and other irregularities in proper shape for mowing.

The ground hog saw his shadow all right, but if he was an old timer he must have wondered if he had not overslept a couple of months. Perhaps he sneaked back into his hole for another nap, but it don't matter much, six weeks of such weather as we have had don't cut much ice.

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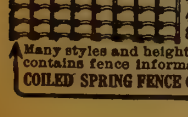


26-inch Hog Fence,.....13½c.
49-inch Farm Fence,.....22c.
48-inch Poultry Fence.....22c.
80-rod spool Barb Wire, $1.40

Many styles and heights. Our large Free Catalog contains fence information you should have.

COILED SPRING FENCE CO. Box 20 Winchester, Ind.

Fills 60-ft. Silos With Ease!

The day of the skyscraper Silo is here. No Silo too high for the Smalley. Charles Spayde, of Humboldt, Iowa, has cut 1550 tons of ensilage since he bought a Powerful Smalley, now cutting all dry feed, such as chaffing and bedding.

Real business farmers like Mr. Spayde have no time to fool with the old slat-apron type of machine. They want this *force-feed* chain-table, grip-hook kind, made by Smalley only. Thus they save a tremendous amount of work and do a quicker, cleaner job. No coarse, uneven silage. All uniformly cut. Which means greater tonnage per silo.

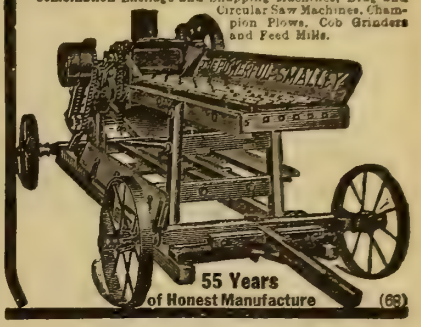
POWERFUL SMALLEY FORCE-FEED SILAGE CUTTER

not only handles green silage, but is also a wonder at cutting dry feed. Handles alfalfa, for instance, to perfection. Letters in catalog prove it. Many farmers use their Powerful "Smalley" to cut corn in the fall and oats and peas in the spring for feeding when pastures dry up in July. Only one drive pulley on Blower outfits. No Idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

You won't know what a real Silo Filler is till you've seen the Powerful "Smalley" or had the Smalley Catalog. Why not send a postal this minute for the latest Smalley Catalog and learn about the Silage Machine that four out of five silo owners now use? Write now and you'll get this fine, useful Book by return mail.

SMALLEY MFG. COMPANY
Box 4 Manitowoc, Wis.

Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters, Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Plows, Cob Grinders and Feed Mills.



55 Years of Honest Manufacture (68)

CANADA'S OFFERING To The Settler

The American Rush to Western Canada is Increasing

Free Homesteads In the new Districts of Manitoba, Saskatchewan and Alberta, there are thousands of Free Homesteads left, which to the man making entry in 3 years' time will be worth from $20 to $25 per acre. These lands are well adapted to grain growing and cattle raising.

Excellent Railway Facilities

In many cases the railways in Canada have been built in advance of settlement, and in a short time there will not be a settler who need be more than ten or twelve miles from a line of railway. Railway Rates are regulated by Government Commission.

SOCIAL CONDITIONS. The American Settler is at home in Western Canada. He is not a stranger in a strange land, having nearly a million of his own people already settled there. If you desire to know why the condition of the Canadian Settler is so prosperous write to any of the Canadian Government Agents and send for literature, rates, &c., to

Frank H. Hewitt, Des Moines, Iowa.
W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.
R. A. Garrett, 315 Jackson St., St. Paul, Minn.
or address Supt. of Immigration, Ottawa, Canada.

Rider Agents Wanted

in each town to ride and exhibit sample 1913 bicycle. *Write for special offer.*

Finest Guaranteed 1913 Models $10 to $27

with Coaster Brakes & Puncture-Proof tires.

1911 & 1912 Models $7 to $12

all of best makes . . .

100 Second-Hand Wheels

All makes and models, good as new ..... $3 to $8

Great FACTORY CLEARING SALE

We *Ship on Approval* without a cent deposit, pay the freight, and allow

10 DAYS FREE TRIAL.

TIRES, coaster brake rear wheels, lamps, sundries, parts and repairs for all makes of bicycles at half usual prices. DO NOT BUY until you get our catalogues and offer. *Write now.*

MEAD CYCLE CO. Dept. T184 CHICAGO

CLOVER New Crop Iowa Grown Recleaned TESTED

and inspected Red Clover. Also Mammoth, Alsike, Alfalfa and Sweet Clover of choicest quality.

TIMOTHY Blue Grass, etc., at low prices. Now is the time to buy.

Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.

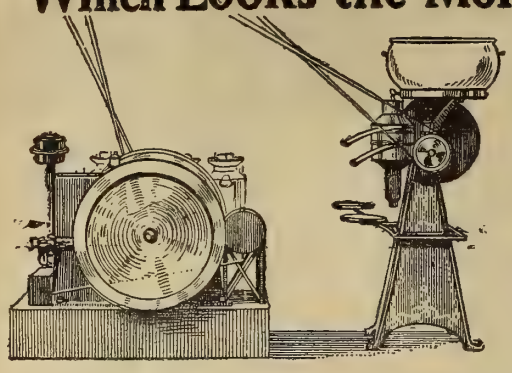
IOWA SEED COMPANY, Dept. D 1 DES MOINES, IOWA

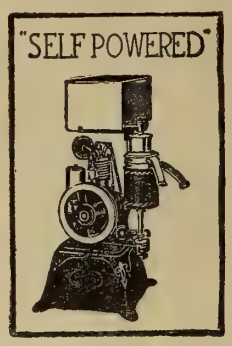
Why Don't You Buy Guaranteed

SEEDS

Guaranteed to satisfy. Write for our large 76-page catalog telling all about our sure way to grow Garden, Flower and Field seeds. Prices low, quality guaranteed. It is to your interest to write A. A. Berry Seed Co., Box 205 Clarinda, Iowa

Which Looks the More Practical?





A Lot of Machinery—or—The "Automatic"

The "AUTOMATIC" is self-powered; engine and separator in one. The two are not loosely connected; they are solidly combined. The little engine is compactly built into the separator itself, and is so nicely adjusted that the bowl spins at high, even speed *without a trace of vibration.* This is a very different matter from the makeshift of hitching a hand power separator to any old gasoline engine. The two are ill suited. The explosive impulses of detached gasoline power are certain to jar and rack so delicate a piece of mechanism as a hand and gear driven separator. No manufacturer would recommend such a makeshift if he were not hard up against "AUTOMATIC" competition. He knows that hand power is doomed. A dairyman with eight or more cows to milk won't put up with the drudgery and expense of cranking a separator by hand—not a day longer than he has to.

"The 1913 Automatic" Cream Separator

requires no cranking. It saves time and labor. Skims faster than ten men can milk. When the milking is done, skimming is done, Hand power varies. The "AUTOMATIC" skims even—absolutely even; its speed is maintained without variation. The result is more butter fat and smoother cream. No hand cranked machine can possibly skim so close. ¶ The engine is highly efficient and very dependable. Starts with the pulling of a cord. Can't kick. Runs continuously for hours without the slightest attention. Is protected against freezing or choking or balking by an automatic fuel feed and magneto equipment.

If you are milking eight to ten cows or more you ought to know about the "AUTOMATIC" Cream Separator. See it in actual operation. Then you won't go on cranking a hand machine any longer. You cannot afford to. By writing us you can obtain full information by mail. We will tell you where you can see the machine in operation—of what dealer you can buy one. Give us the name of your dealer. Ask for Catalog No. 6.

Standard Separator Co., Box K-33 Milwaukee, Wis.

Every Year Adds to the Evidence That Quality In a Separator PAYS

YEAR after year, more and more farmers are realizing that the *highest quality* separator pays the *biggest dividends* for the *longest time.* The experience of men who bought only on a low price basis has served as a warning against buying "cheap" machines. Men who have purchased *Great Western Separators* are actual living proof that it is the best *economy* to pay a fair honest price for *quality.* Be fair to yourself. Get a separator that skims close for a *lifetime.* Get a separator that is *always* easy to turn. Get a separator that is easy to clean as long as it lasts. Get a

Great Western

if you want the most a separator can be—the best separator investment you can make. The Great Western is the only separator with a skimming system that follows nature's laws—the milk sinks, the cream rises. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming cold milk. It is self-draining and self-flushing; there are no long tubes, no minute slots, corners, crevices, or ragged edges to hold milk and collect dirt. The Great Western is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50 to 100% harder than balls others use. The ball races in the Great Western are tempered so hard that you cannot cut them with a file. Low swinging tank and low gears with high crank, mean greatest convenience, least vibration, velvety cream and longest wear without repairs. We will arrange to give you

Any Kind of a Trial You Want on the size Great Western that best meets your needs, no matter what number of cows you own. Test the Great Western side by side with any other separator. Try them both on any kind of milk—warm, cold or stale. See how much better the Great Western is in every way. See how much finer the Great Western is made—note how much stronger the materials are—how much easier it runs, how easy it is to clean and *keep* clean and sweet. Then decide. We know that the Great Western beats them all. Comparison will prove it to you.

Art Book Free Drop us a card today and we will send you without any expense or obligation our beautiful art catalogue showing the Great Western in natural colors and also our million-dollar 5-year surety bond. Shows best methods of separating, gives results of extensive experiments and information on separating not found elsewhere. Proves Great Western superiority. Mail postal today.

ROCK ISLAND PLOW CO., 184 C Second Ave., Rock Island, Ill.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE PERSONAL TOUCH IN DAIRYING.

To the Editor of The Homestead:

Is it worth anything to have the owner of a farm dairy "on the job?"

Not far from me there is a farm that is coming to the front in a wonderful way, and I believe the young man who is at the head of things gave me the secret, or at least one secret of his success, when he said, "I always do the feeding myself." I knew, too, that every detail of the dairy work was done right under the watchful eye of the same young man. "Then," he added, "I know how it is done. I don't always when I let somebody else do it."

Now, that personal attention to what is being done is worth more than most of us realize. Nobody takes the same interest that we do ourselves in the feeding and other care of our stock. I say no one. Perhaps that should be modified. There are boys who have been so thoroughly imbued with the carefulness of their fathers that they can be trusted to walk in his steps and do everything upon honor. Now and then, too, we find hired men who will do it. The man who gets such a hand is fortunate. He had better make a life contract with him if he can.

But how does it count to give this personal touch? I'll tell you. The man who is working for his own best interests will make a study of his business. He will watch his cows to see if they are doing their best with the feed he gives them. He will not go out and pitch a lot of feed into the manger regardless of the capacity of the individual members of the herd; he will take into account the season of the year, the work his cows are doing and all the many little points that might escape the attention of the man who cares most about getting his work along and his pay for doing it.

Somehow the touch of the master is kinder as a rule than that of anybody else. And kindness counts. The man at the head feels the importance of little things and attends to them faithfully. He knows that the margin between success and failure is often a very slender one. He has the farm accounts in his keeping and sees just where things are going, whether well or ill.

Now, this all implies that the man highest up is himself a real man, whose whole heart is in his work, who is not simply working by the day but who looks well on into the future and knows that the best dairy work is that done for tomorrow.

E. L. Vincent.

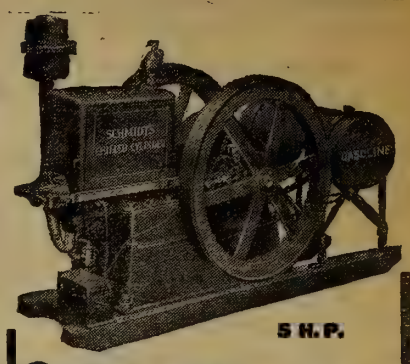
A GOOD DAIRY RATION.

To the Editor of The Homestead:

The following questions are asked by a subscriber, Mr. Gilbert Masters:

I have five grade Jersey cows, weight about 700 pounds, some milking and some to be fresh soon. Also six grade Short-horn cows weighing from 1,000 to 1,100 pounds. I have no feed except silage, corn fodder and corn, but can get bran at $23 per ton, gluten at $27, cottonseed meal at $45, corn at the elevator at forty cents per bushel, and alfalfa hay at $20 per ton. What should I feed to get the best results? The silo was filled with corn averaging forty bushels to the acre. Should I feed any corn besides what is in the silage? What is the milk-producing value of oats at thirty-five cents per bushel compared with bran at $1.30 per 100 pounds, adding three cents per bushel to the oats for grinding?

With the feeds mentioned this subscriber should be able to compound a splendid ration. The dry cows weighing 700 pounds which are expected to be fresh soon should receive about five or six pounds of corn (preferably corn and cob meal) daily and all the alfalfa hay they desire. This will keep the dry cows in a thrifty condition and will be sufficiently balanced for their purpose, except when cows are thin when they should receive in addition to the above ration four or five pounds of corn and cob meal daily. For cows giving milk I would suggest a daily allowance of silage from thirty to forty pounds being governed somewhat by the weight and feeding capacity. I would use a grain mixture in the proportion of four pounds bran, three



$7.50 and You Keep This Great Engine

We will ship you any one of Schmidt's Chilled Cylinder Gasoline Engines on your simple request. **Your choice of sizes**—water cooled or air cooled—horizontal or upright. You use the engine 10 entire days—then, if you don't want it, send it back at our expense. If you wish to keep this engine pay us **only $7.50 and you can pay the rest in the easiest monthly payments.** And you get the engine at the rock botton price—the same price that even the **wholesale dealer must pay.**

We Send This Engine FREE

We want you to see for yourself the powerful Chilled Cylinder—Ben Schmidt's new oiling device—his marvelous valveless carburetor and the other features that make his engines the simplest and most efficient engines in the world. They are the only engines with the marvelous, powerful **chilled cylinder.** The only engines for farm use with a **spark retarder.** The new type gasoline engines that have revolutionized the gasoline engine industry. The only engines good enough to send out on **actual free trial** without paying a single penny down.

Take a Long Time to Pay

If you like the engine after trying it out for 10 whole days you can keep it and take a long time to pay for it, on **easy monthly payments.**

Schmidt's Chilled Cylinder Gasoline Engines are absolutely guaranteed for five years in every part. The biggest bank in Iowa backs up our ironclad guarantee.

Write Today for Free Book

Do not delay an instant. Your name and address on a postal or a letter is enough and we will send you Ben Schmidt's new book, "How to Use Power." The book is free and prepaid. No obligations of any kind. Be sure to write today—now.

Schmidt Bros. Co. Engine Works
Department 4472, Davenport, Iowa

Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

Blatchford's Calf Meal Factory
Waukegan, Ill.

STOP that high lifting into your high-wheeled farm wagon.

LOOK up that old running gear with broken wheels and pull it out of the weed patch from behind the barn.

LISTEN to what our free catalogue says about low-down steel wheels for that gear. It will make the handiest wagon you ever had on your farm.

Havana Metal Wheel Co.
Box 47, Havana, Ill.

The "STAY THERE"
Aluminum Ear Markers

are the best. Being made of aluminum they are **brighter, lighter, stronger and more durable** than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. **Sample tag,** catalogue and prices **mailed free.** Ask for them. Address

WILCOX & HARVEY MFG. CO.,
Dept. A. 443 S. Dearborn St., Chicago, Ill.

FIRE PROOF FROST PROOF NO PAINT TO CEMENT TILE

HOW TO BUILD IN CEMENT WITH MATERIAL FOUND ON FARM, WITH UNSKILLED LABOR, WHEN OUTDOOR WORK CANNOT BE DONE. IN TILE BLOCKS SHIPPED DIRECT FROM KILN. WRITE FOR BOOKLET AND SPECIAL OFFER NO. 18

CEMENT & TILE SILO CO.
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Mail Coupon Below For Big Free Book of

Hansen's Gloves

For a Firm Grip

For a real "strangle hold" on the wheel or on the reins—on whatever you have in hand—there's nothing like Hansen's Gloves. Get book of proof and free try-on offer.

You get everything that a glove will do to protect and make the work go easier in

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And do it cheaper than "trashy" gloves. They help you to work *faster*—they prevent injury and *last* to the point of *real economy*.

Sold by many dealers, but if not yours, let us send a pair on approval. Make selection from the book. Mail coupon or postal *today*.

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You may send me Free and postpaid your book showing Hansen's Gloves. I am most interested in the styles for the following purpose:
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Mention above what kind of work, driving or sport.
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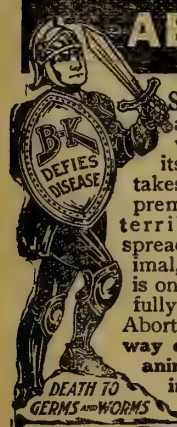
COOK YOUR FEED and SAVE Half the Cost—with the
PROFIT FARM BOILER
With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also make Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P
D. R. Sperry & Co., Batavia, Ill.

STOP Contagious ABORTION



Stop this dread disease and loss of calves—prevent its spread—once its foothold is secure it takes years to rid your premises and cattle of this terrible infection which spreads from animal to animal, herd to herd. There is only one way to successfully conquer Contagious Abortion—**only one sure way of preventing your animals from becoming infected—**

KILL THE GERMS.

10 times as Powerful a Germ Destroyer as Carbolic Acid, but Non-Poisonous.

B-K Bacili-Kil

Destroys Germs. Disinfects Stables, Animals, etc. Prevents Disease.

A wonderful new discovery—the safest, simplest, surest and cheapest germ killer known. Here is the actual proof:

"On receipt of the five gallons of Bacili-Kil and instructions for using the same, we treated a herd of forty cows which had suffered from Contagious Abortion for some time. We had lost seven calves and there were a number of cows due to freshen the following five months. Since using Bacili-Kil we have not had the slightest trouble; our calves have been born alive and normally. We are pleased to say that Bacili-Kil cleaned out our stable when other things failed."
A. S. H., New Lebanon Centre, N. Y.

Prove It at Our Risk

We'll send you enough B-K for two months' treatment of your herd—and if, after following our directions for that period, you are not satisfied with the results, we will refund your money without question—we leave it all *to your judgment*. We make this offer for a limited time that you may prove, *right in your own herd*, that B-K. is the cheapest, safest and surest means of conquering Contagious Abortion. We'll give you an opportunity to test this wonderful germ killer in preventing Contagious Abortion and Calf Cholera. You can't afford to overlook this opportunity to find out for yourself how B-K conquers contagious disease. Stop your losses. Protect your herd. Just fill out the coupon and mail it today—NOW—lest you forget.

GENERAL PURIFICATION CO.
502 Pioneer Bldg., Madison, Wis.

G. P. CO., 502 Pioneer Bldg., MADISON, WIS.
Send me a copy of your booklet describing your simple B-K Sterilizing Method of Treating Contagious Abortion and tell me cost of B-K for treating my cows 2 months.
(Fill blanks carefully)
No. in herd? Cows.....: Calves.....
How many have abortion?.....
Wanted for ? prevention.....: treatment.....
Name.....
P. O.....
Ex. Office.....

pounds cottonseed meal and five pounds of corn and cob meal, thoroughly mixed and fed with the silage. Feed one pound of the mixture for every three pounds of milk given. To economize time these proportions may be enlarged to 100 pounds bran, seventy-five pounds cottonseed meal and 125 pounds corn and cob meal. They can all be dumped on a floor and scooped over till thoroughly mixed. For a hay ration give the cows what they will clean up of good alfalfa after their evening feed.

To cows in flow give the grain mixture as mentioned above in addition to the corn already in the silage.

The principal value of any feed for milk production lies in the amount of digestible protein it contains. When bran is worth $1.30 per hundred pounds or $26 per ton and when the oats and grinding are worth practically $25 per ton it would appear at first thought that oats were the cheaper feed. But we find that one ton of bran contains 252 pounds of digestible protein while one ton of oats contains but 184 pounds of digestible protein, so that on this basis it would take 2,738 pounds of oats to equal one ton of bran and this extra 738 pounds of oats at thirty-eight cents would be worth $8.74. O. O. Brewbaker.

MILK PAILS FOR FARM USE.

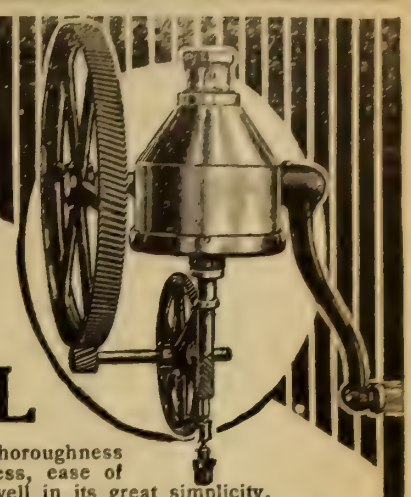
To the Editor of The Homestead:

It was the writer's lot one time some eight years ago to work on what was called by the owners a sanitary dairy. There he had experience with a type of milk pail that once was heralded as the perfect pail so far as securing clean milk might be concerned. It was the kind yet on the market and very frequently seen in use which has the top covered except for a diameter of about four inches. That opening was fitted with a gauze on which was placed a layer of absorbent cotton all milk entering the pail through the cotton. The theory upon which the pail was constructed was that all foreign matter, even the tiniest particles, would be held by the cotton and only pure milk pass into the pail. In practice, however, quite the reverse happened. All particles large or small were held by the cotton. Jet after jet of milk from the teat washed the particles until every bit that could be dissolved was washed through into the pail. More was dissolved in that way it seems certain than could have been the case had the opening not been covered with the cotton.

Yet so far as is possible the pail should exclude dirt and foreign matter. A thoughtful dairyman who is putting milk of a high grade on the market became dissatisfied with the ordinary pail with the large flaring top. He began experimenting with cups and with pails with different sizes of openings. He kept that up until he determined the smallest possible opening into which he could milk conveniently. Then he had all pails used in his dairy covered with tin sheeting with a central opening of the size that he had determined. At first his men demurred, but finally all milkers excepting one were using the covered pails regularly. That one man asked permission to use a pail with a large top to milk one certain restless cow. Later the owner found him to be milking several cows in the pail of the ordinary type. Since that time nothing but the covered pail with the opening a little more than two inches in diameter has been used in the herd. Such a small opening reduces to a minimum the amount of straw, dust, or other material that will get into the milk.

Another main consideration is that the pails be of the type that can be cleansed easily and thoroughly. Primarily the pail must be free from wrinkles and narrow grooves in which milk in various stages of decay and which is filled with disease germs remains after the ordinary efforts at cleansing have been applied. The dairyman mentioned in the paragraph above solders over smoothly all creases, joints and grooves. The galvanized material for lining is to be avoided. It cracks and rolls and makes lodging places for sour milk and bacteria. The cover on the pail must not be of such shape that it will interfere with proper cleansing. If it were it would defeat its primary purpose that of providing cleanliness for the milk. That the pail should

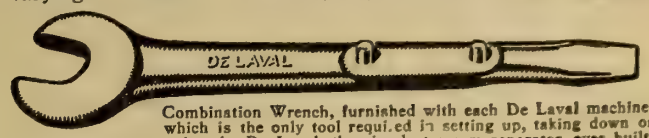
The Simplest CREAM SEPARATOR Ever Built — DE LAVAL



EXCELS ALL OTHERS not only in thoroughness of separation, sanitary cleanliness, ease of running and durability, but as well in its great simplicity.

THERE IS NOTHING ABOUT THE OPERATION, CLEANING, adjustment or repair of a modern De Laval Cream Separator which requires expert knowledge or special tools.

NOR ARE THERE ANY PARTS WHICH REQUIRE FREQUENT adjustment in order to maintain good running or to conform to varying conditions in the every-day use of a cream separator.



Combination Wrench, furnished with each De Laval machine, which is the only tool required in setting up, taking down or using the De Laval, the simplest cream separator ever built.

THERE IS NOTHING ABOUT THE MACHINE THAT CANNOT be taken apart, removed or replaced by any one who can use a wrench or screw driver. In fact, the only tool which is needed in the use or the operation of a De Laval Cream Separator is the combination wrench and screw driver illustrated above, which is furnished free with every machine. Visit the local De Laval agent and see for yourself its simplicity of construction.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

The Milk Pail Shows

whether your cows are profitable producers or merely boarders. Some cows digest their feed perfectly and convert it into milk; others eat as much, but waste it because of poor digestion. Why not make them **all** profit-payers? It is merely a question of putting them in proper physical condition.

Pratts **Animal Regulator**

was designed for just this work, and has been doing it satisfactorily for 40 years. It increases the appetite, strengthens the digestive system; keeps the bowels active; improves the circulation; tones up and naturally stimulates the milk-producing organs, and that means **profitable production.** 25c, 50c, $1; 25-lb pail $3.50.
Make milking easy. Cure sore teats with

Pratts **Healing Ointment**
25c, 50c

The best remedy for sores, cuts, burns, scalds, wounds of all kinds.

"Your money back if it fails"

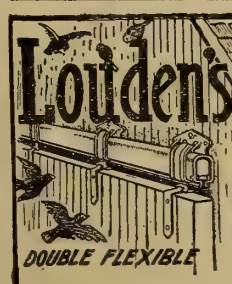
Get Pratts Profit-sharing Booklet FREE at dealers, or write us. Our products are sold by dealers everywhere, or

PRATT FOOD COMPANY
PHILADELPHIA CHICAGO

1913 Almanac Free

Louden's Bird Proof Barn Door Hanger

Never Clogs—Never Balks



PERFECT AND PERMANENT.
And the only enclosed track that automatically adjusts itself to lie close to the building.

LIGHT RUNNING, roller bearing, tandem trolley hangers, operate inside of an enclosed track. Always runs easily, never binds. Can't get off the track. Can't be clogged by birds, ice or snow. Can't be broken by stock crowding through half open doors. Carries the heaviest doors. Lasts as long as your building—always on the job. *Costs no more than the ordinary makes.*

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We make the famous LOUDEN Hay Tools, Sanitary Steel Cow Stalls and Stanchions, Litter and Feed Carriers—everything for the barn. Free catalog describes them all.

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be covered so far as possible is a necessity with all who appreciate clean milk. The type of pail with about three-fourths of the opening covered leaving ample space for the milk to enter and for the insertion of a brush for cleansing or for steam if there is such available is no doubt the preferable type for ordinary farm use. Pails constructed on that plan can be purchased on the market for a little more than the common type costs. In assisting to secure cleaner milk they will many times pay for the additional cost. Subscriber.

BRAINS, RECORD AND DAIRY PROFITS.

To the Editor of The Homestead:

Half the cows in the average herd kept for milk, cream and butter profits are either eating their heads off or else giving such small returns for the feed and labor and room expended upon them that it is unprofitable to keep them. This is a broad statement. I know it will be questioned by a good many farmers who are getting fair returns from their cows, but if they would let me take the Babcock test and march into their herds I would soon prove every word of my opening statement.

The state of Minnesota for years pointed to as an example of dairy thrift, has lately been under the eye of official herd testers. Hundreds of herds that were supposed to be giving profits have been found to be millstones about the financial necks of their owners. It has been repeatedly said that the average cow yielded but 150 pounds of butter per year. If the manure from these poor-paying cows had not been returned to the land from which came their feed, it would have been more money in the farmers' pockets to have sold the grain and hay they were consuming and beefed the critters.

There never was a time in the history of American farming when feeds brought higher continued prices than they do right now. There never was a time when good dairy products were in greater demand and at such continued high prices. And also there are more poor cows gracing the pastures and stanchions in America than ever before.

My last statement of fact is being borne out by the cow-testing associations which are springing up all over the country. They are uncovering the poor cows in the herds of the dairyman who is in the business for the fun of having a big farm and showy display, as well as in the working herds of the diversified farmer who expects a monthly cream check to provide for current expenses of the farm and add to the back account. It is in this process of weeding out your herd that I want to help you. I am operating a dairy farm on high-priced land here near Waterloo. In starting my dairy department I based a cow's worth on the amount of butter fat and milk she produced. Many a pitfall has the test of pounds of milk and its butter fat saved me from.

H. L. Russell, of the Wisconsin Experiment Station, declares that a cow must yield 150 to 175 pounds of butter per year to pay for her keep. I think he included labor in this cost figure. Professor Haecker, of the Nebraska Experiment Station, says that 700,000 milk cows in that state return an average of 125 pounds of butter per year. If these figures are correct these 700,000 cows are losing from $75 to $100 each per year for their owners. Good cows would convert more of that feed into money. With right care they would return nearly $100 each every twelve months.

On the average corn-belt farm it costs 130 pounds of butter per year to pay for a cow's keep. Some places it might cost a bit less owing to particularly favorable conditions for growing her feed. In other places it might cost a little more. But my statement will hold good throughout the corn belt. At the present price of butter fat, about thirty cents per pound, 100 pounds of butter runs from $30 to $40. Consequently this amount is equivalent to the cost of a cow's feed for a year's time. Taking 150 pounds as the average cow's yield, and this has been time and again proven not to be too low, a cow producing that much butter fat is returning her owner but fifty pounds of butter fat profit during her milking period. Fifty pounds of butter at thirty cents means a net yearly profit of $15.

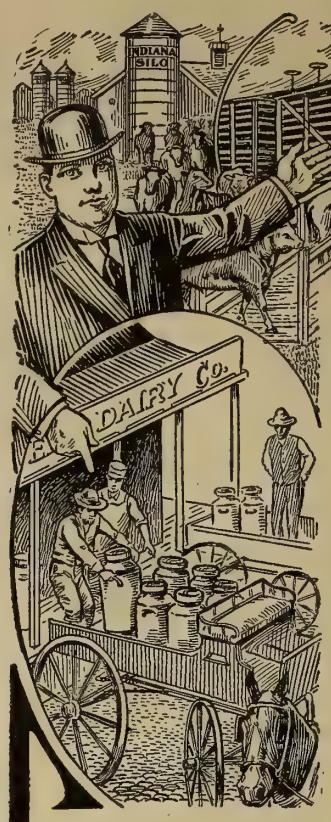
Now, mind you, I am not saying that all cows are doing as poorly as this. I am not even saying that your herd contains one cow doing as poorly. I am merely opening up the possibilities that lie before you in the way of knowing absolutely, positively, just what your herd is doing. A complete testing outfit of the Babcock type will cost you but $3 or $4 and if this small outlay does not prove the biggest money-making investment you ever made let me know and I'll never make another suggestion to increase your dairy profits.

The farmer who is milking cows without weighing their milk wants to begin right there. It is as important to know what amount of milk as what the butter fat or cream test is from each animal. Cow record sheets can be easily made. Take a sheet of paper and rule it horizontally. Make a line for the name of every cow in the herd and then add a few lines for cows that will soon freshen or heifers that are likely to be added to the herd. Put these names on the left-hand side of the ruled sheet. To the right of their names draw a straight line up and down the sheet and then continue these lines until you have a small space in which to put down the figures of the weight of each cow's milk for two milkings per day every day in the month. Tack this sheet on a smooth board, fasten it up in the barn and hang a pair of good, small scales close by so that each cow's milk can be weighed every milking. On a string tie a pencil at the bottom of the record sheet. Now you are beginning to get down to knowing something of what your cows are doing.

With your Babcock tester each cow's milk should be tested twice per month to see what its butter fat percentage is. Most every state has its official standard of butter fat in the milk that is offered to the trade. In Nebraska and certain other states, the standard is 3.2 per cent of butter fat and each 100 pounds of milk contains that percentage of it if sold to the trade. It is often through ignorance of the amount of butter fat in their milk that dairymen are hailed into court and fined. If you do not want to test your own cow's milk have a series of test bottles, one for each cow and put a test sample of her milk into it twice per month, when you can carry it to the local creameryman. If you are separating your cream at home and sending the cream to the creamery once or twice a week it might be more handy to have the creameryman do your testing for you. I advise doing the testing right at home on the farm, in the kitchen, for then you know just how it is being done and are taking the right kind of interest in the work.

Every good cow on the farm should yearly make the dairyman $100 clear profit. This amount may include her butter fat, the skim milk and her calf. I know you will think I have set the mark pretty high, but did you ever hit the mark by aiming low? A corn-belt farmer friend of mine began dairying on land that cost him $60 per acre. Before he got his herd into good working order the land had increased to $75. He gathered about him twenty cows of native stock when some one told him about the Babcock test. He bought a small outfit and began testing his cows and keeping a record of their average butter fat. Twice each month the herd went under the test, a sample of the morning and evening milking being used each time. After the second month's test, eight of the cows were sold for the simple reason that they would have to give three times the amount of milk they were producing in order to make a profit over their feed and care, because their butter fat percentage was so low.

At the end of the fourth month two more were disposed of. Then a system of breeding up began. He bought a couple of pure-bred cows that made more actual butter fat than any four of the natives he started with. A pure-bred bull crossed onto the native cows that he kept, gave him a few nice heifers which at the end of his fourth year's work began to yield and boost the output of the farm. They show a decided improvement over their dams both in milk flow and quality. And so he progressed on the actual knowledge of every cow's record. He knew what they were doing for him at all times. He knew what feeds affected their milk flow and fed accordingly. Today his farm supports nothing but



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holds the record for fattening prize winning cattle and developing top-notch milkers. Look into the histories of the cows and steers that have walked off with the prizes at the Dairy and Live Stock Shows for several years back;—you will find that most of them were fed from Indiana Silos.

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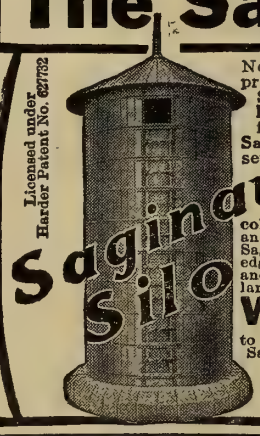

Nobody who has been watching the Silo business was at all surprised when the news came out a few days ago that the Saginaw Silo won another big victory in adopting the **Patented Angle Steel Rib.** Wasn't it the Saginaw that made the **All-Steel Door Frame** famous? And was ever anything invented to compare with the **Saginaw Base Anchor** or the **Saginaw Inner Anchor?** No, sir! For seven years every single **practical** Silo improvement has first appeared on the **Saginaw.**

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pure-bred animals. His herd averages over sixty cows and heifers in milk the year round and the herd average is now close to 400 pounds of butter fat per cow per year. He aimed high and hit the mark. He is shipping pure-bred dairy cattle to China, Japan, South America, Canada and Mexico and is today one of the leading dairymen of his state. And all this because he learned the record of each cow's actual performance in quality and quantity and selected and bred with a view of increasing the money-making ability of his herd.

Dairying builds up the land as no other branch of farming can do it. To turn the grain and forage crops of the farm into butter fat, takes less soil fertility off the land than any other farm product you can haul to market. In selling beef, grain, hay, you are removing from the farm more profit-making soil elements than you are putting back unless you buy fertilizers to renew the land. It is because of this fact that the American farmers have been said by the scientific soil experts of Europe to be a nation of soil robbers.

Dairying returns to the land the rich manures that supply humus or rotted vegetation so essential to perfect soils and heavy crops. It gives you through the wastes of the dairy, skim milk and buttermilk, the best feed for pork making, a highly profitable adjunct to the business. It saves the heavy labor of hauling to market grains and hay. Its returns are certain for the increase in the production of high-class dairy products has not kept step with the increased demand and increasing prices.

A scrub cow that is yielding but 5,000 pounds of milk of 2½ per cent butter fat test will consume as much feed as one yielding 10,000 pounds of milk of 4 per cent fat test. This has been proven so many times that there is no need of me going into it again. The difference in the scrub cow and the good cow is that the scrub consumes the feed and her digestive and milk-making organs cannot turn it into money like the well-bred cow. One has been bred for the purpose of making the most milk and fat from her feed for 100 generations while the other is a blot on the farm and a robber of your purse. Wm. Galloway.

THE COWS THAT ARE TO CALVE.

To the Editor of The Homestead:

The cows that are to be mothers before long should have special care. In the first place they should be separated from the rest of the herd. A cow that is heavy with calf cannot get around very fast, and other stock is apt to bother her a great deal. The other day I saw a mule running such a cow across the field, biting at her. It was a great effort for the cow to keep out of his way, but she was doing her best. The cow that is chased about by other animals is liable to be injured, which may result in loss of cow and calf.

Then be sure that no hogs are allowed in the cow lot. Often they have done a calving cow irreparable injury. I have seen cow and calf both so badly injured by the hogs that they had to be killed. A little precaution here will save the farmer a good deal of money.

Then I believe it is a good plan to put the cows where they cannot run to ponds or along the banks of streams with water in them. In my short lifetime I have known many farmers who lost calves that were born on the banks of ponds and streams. In its struggles the calf simply tumbled into the water and was drowned.

The cow should also have a good grain ration before calving. This gives her strength and vigor. Cows that have wintered on nothing but roughness seldom bring vigorous calves and sometimes die at calving time. Feed plenty of corn and give the cow a comfortable stall or shed at night. If you leave her out in the blizzard, you may find a frozen calf in the morning. Subscriber.

MILK AND ITS PRODUCTS.

The above is the title of a most valuable book just from the press by Prof. Henry H. Wing, of Cornell University. It is a revision of a previous volume by the same author and it covers almost every conceivable dairy subject and the matter is presented in every-day business language. The reader may obtain some conception of the character of this book from an examination of the chapter headings which are: Secretion of Milk; Composition of Milk; The Production of Milk—Dairy Cattle; The Testing of Milk; The Ferments and Fermentations of Milk and Their Control; Determination of Bacteria in Milk; Market Milk; Certificated Milk; Separation of Cream; The Ripening of Cream; Churning; Finishing and Marketing Butter; Milk for Cheese Making; Cheddar Cheese Making; Other Varieties of Cheese; Ice Cream; Other By-products of the Dairy; Butter and Cheese Factories; Statistics and Economics of the Dairy Industry; Appendix. We have no hesitation in indorsing this book and in recommending it to those of our readers who have anything to do with dairy cows or with any branch of the dairy industry. We are able to supply it to our readers at the regular publishers's price, namely, $1.50.

THE PULLING POWER OF HORSES

A totally new element has been brought into the good roads question by Dean William G. Raymond, head of the college of engineering of the state university of Iowa, in an address before the Johnson county good roads convention.

Although Dean Raymond is working for permanent roads, he wants the state to go in with its eyes open and consider all the problems. This one relates to grades.

With dirt roads, said Dean Raymond, the pulling power of a team of horses is limited more by the condition of the surface of the road than by the steepness of the grades. But with concrete, brick or macadam roads the pulling power of a horse on the level is immensely increased, and it is the grades which determine the size of a load that can be pulled. Consequently, in order to get the benefit of permanent roads, it will be necessary to cut down the grades.

The practical effect is about as follows, says the dean:

A team of horses can exert steadily on a dirt road a pull of 250 pounds, which is enough to pull a load of two and one-half tons on the level, and the team can pull the same load over short hills of a rise of from five to eight feet in the hundred by extra exertion.

But on a concrete road the team of horses can pull a load three or four times as great on the level. When it comes to a hill, however, the team cannot pull this added load over the same grade that it could travel over with the lighter load on dirt roads.

Dean Raymond figures that the maximum load for level concrete roads can only be pulled over a 2 per cent grade, that is, over a hill that rises two feet in the hundred.

In his address he went into the cost of permanent roads, urging short time bonds, and said he considered permanent roads more of an investment than an expense. The $5,000 or $10,000 a mile invested in a permanent road is not loss, he said. The money is spent, but the community has the road, and before the road is worn out it has its value in use and in increased value of property.

Echoes From a Kansas Farm

BY HENRY HATCH

Each week finds the supply of well water growing less. As far as effect on wells is concerned, the drouth has been the longest known here in years. It has been a long time since there has been moisture to reach more than three feet under ground.

The women folks are beginning to "set" their incubators. This in itself is an indication of warmer weather coming, but it may not be exactly springlike when the first hatched come into the world. One has to be fixed for it to raise chickens that arrive on the scene before the first of March.

More plowing has been done this January than in any other January of which we have any recollection. Except when frozen, the soil has been in fine condition for plowing, and fearing wet weather will follow this long absence of rain, more farmers than usual are getting a portion of their spring plowing done a couple of months and more in advance.

Hay is becoming cheaper instead of higher in price as the winter advances. The best prairie hay, baled and delivered on track, can scarcely be sold for $7 per ton, now. Last winter, only a trifle later than this, it was selling readily for three times the present price.

We have heard it stated that warm water set outside in freezing weather will freeze quicker than will water that is cold and set out at the same time. We never have tried this to know whether it is a fact or not, but it seems doubtful to us that it can be so, yet we are not going to say that it is not a fact. We do know that water in a gasoline engine freezes rapidly on a winter day, after the engine has been stopped for a time.

Practically every silo owner not dairying has a bunch of cattle on feed. This seems to be general all over the Southwest, and it would be a surprise us if the shipment of fat, partly fat and half-fat cattle in the next few weeks would exceed ordinary expectations. Many here in Kansas do some figuring on tax levying time, which is the first day of March, and many cattle will be unloaded before the first of March, so affairs may be straightened up and put in shape for the assessor's visit. More stock is put on the market before March 1st, just because of this, than many folks make any account of.

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These are discouraging times for dairymen dependent upon average cows. Proceeds barely cover the cost of production. A cow that just pays her way is unprofitable.

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

CARE AND FEEDING OF YOUNG CHICKS.

To the Editor of The Homestead:

First, we will suppose that chicks have been hatched from eggs laid by strong, vigorous birds and if hatched by hens, are free from lice, thus being given a fair chance to start with. As the writer prefers the natural rather than the artificial mother for chicks will treat the subject from this standpoint.

When chicks are thoroughly dry and strong move from nest or incubator as the case may be, and put with a quiet motherly hen (that has been well greased on top of head, under wings and around vent with a little melted unsalted lard), in a clean, dry coop which, if an old one, has been thoroughly disinfected with some good disinfectant of which there are many kinds on the market. This should be done several days before using the coop. Also be sure coop is rain proof, rat proof and weasel proof. Put some clean chaff on floor of coop (clover chaff preferred) and also several handfuls of clean, dry sand which the chicks will pick at thus preparing to digest their first food.

Give mother biddy from fifteen to twenty chicks according to her size and the kind of weather. If hen is small and weather chilly fifteen would be too many. After giving a small dish of water and some whole shelled corn for mother hen and all are safely hovered, leave them be—except for an occasional peep to see that none have crawled away from the hen—for twenty-four hours more when they may have their first feed. This should be composed of bread crumbs well dried, mixed with a little hard-boiled egg and a little prepared chick feed may be added. Feed sparingly of this five times a day until at least a week old when the egg and bread crumbs may be left out if desired and cracked wheat, chick feed, cut-up onion tops or onions, cabbage, lettuce and dandelions may be fed. After a week old or two if weather is favorable they may be fed less often, changing first to four times and then to three times daily. When from six to two months old twice daily will be sufficient if they can forage and they may be fed whole wheat and crack corn for grain ration. Always keep chicks dry and free from lice as nearly as possible. Feed sparingly when young, give plenty of clean, fresh water and sharp sand and grit. These are the chief requisites. Subscriber.

POINTERS ON CHICKEN RAISING.

To the Editor of The Homestead:

I raise White Wyandottes and White Hollands and have never had any trouble with my eggs not hatching. About 150 hens and pullets and fifteen young cockerels are kept on free range while on another part of the farm a pen of the best birds are kept in a large chicken tight fence where they have plenty of outdoor exercise every day that is not too stormy. I hatch from both flocks and get about ninety-five chicks from 120 eggs. I gather the eggs three times a day and never put any in the incubator that are over ten days old.

The birds are kept in good condition so they are strong and healthy being fed wheat bran, small oyster shells and charcoal besides corn, oats and wheat. I believe in dry feed and give sweet skim milk and water for drink.

About three or four days before the incubator hatches I take four or five eggs from it and put them under some sitting hens that I have ready to take the little chicks and when all are hatched give each hen fifteen little chicks in a good large warm box. The first few days they are fed bread crumbs with sweet skim milk to drink. Also keep bran, sand and charcoal where they can get it when they choose. Everything is kept as clean as possible.

Mrs. C. F. McLachlin.
Audubon county, Iowa.

WHY RAISE THOROUGHBRED POULTRY?

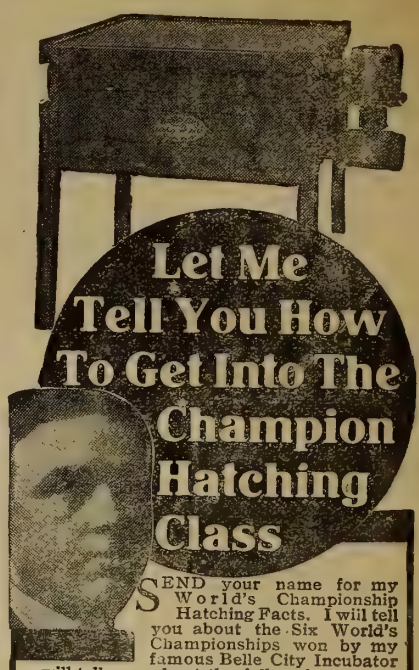
To the Editor of The Homestead:

Does it pay to raise thoroughbred poultry? This question has been settled by successful poultry raisers to their satisfaction, but is continually being asked by farmers who heretofore have been contented to see a mixed breed of chickens on their farm. Slowly, but surely the old prejudice against so-called "show chickens" is disappearing, and the farmer is beginning to realize that it pays to raise the very best of everything on the farm, poultry included.

Sometimes you see a few fairly good fowls raised from breeding mongrels, but there is no certainty in the breeding qualities of a mixed flock of fowls; and this fact militates against their use in these days of greater efficiency when economic production is essential for greater profits. Some farmers claim that their flock of mixed breeds is hardier and lays more eggs than a flock of thoroughbreds of the same size. While it is true that the crossing of good bloods tends to increase natural vigor, it is not true that the indiscriminate crossing and recrossing of mongrel bloods increases egg production or the table qualities of its offspring. The results are quite contrary to those claimed; and such assertions generally are made as an excuse for their author's lack of management, and his neglect of the correct principles of breeding.

We occasionally read about some breeder selling an exceptionally good fowl for a price that ranges up into hundreds of dollars. Now why do these fowls command such high prices? Because they were thoroughbreds as were their ancestors before them, because the buyers believed they would be worth that much to them in their breeding yards, and so they were willing to pay the prices asked for them. Of course, where $100 or more is paid for a single fowl the price is exceptional, but what I wish to impress upon those who are still wasting their time raising mixed breeds is that these prices are made possible by the fact that the seller raised standard-bred thoroughbreds. While these are exceptional prices it is common practice among fanciers to pay $25 or $50 for fowls for breeding purposes, and $3, $5 and $10 for breeders are prices too common to occasion comment.

Now it costs no more to feed these blooded fowls than it does to feed a mixed lot of mongrels, and they will lay more eggs and produce more flesh and in less time than a common mixed lot. It is true that it costs more money to get a start with thoroughbreds, but do not let $2 or $3 per head for females or $5 or $10 for male fowls scare you out of getting a start with thoroughbreds. If you get good standard-bred stock to start with do not be frightened by the prices asked by a reliable breeder, for the chances are that they are worth every cent asked for them, for the breeder has used his skill and knowledge gained by years of experience at no telling what cost in their production. They will prove a good investment if properly cared for and the returns will justify the expenditure. If you think that you cannot afford to pay the price for stock, then buy a sitting or two of eggs from the best stock you can, and get a start in that way, but by all means get a start; and in another year or so you will be shaking hands with



Let Me Tell You How To Get Into The Champion Hatching Class

SEND your name for my World's Championship Hatching Facts. I will tell you about the Six World's Championships won by my famous Belle City Incubator—will tell you about the folks who won the prizes, how they did it and how you can get championship hatches right from the start. My

Six-Time World's Champion

Belle City

has defeated all other incubators, many costing two to five times more than my price. Used by U. S. Government after careful investigation. I want to tell you about the features I have embodied in the Belle City which made them the Championship Hatchers of the World. I want to tell you about my famous Double-Walled Hot Water Top-Heat Brooders guaranteed to raise the chicks. I'll tell you all about my manufacturing, selling and shipping plan that makes my remarkably low price possible.

Get My Lowest Price

Just say, "Send World's Championship Hatching Facts." I'll quote you my lowest price, freight prepaid—tell you how you can have 1, 2, or 3 months home test at my risk—how I protect you by my personal 10 year guarantee. I'll send you my portfolio of all these hatching facts—free, if you write me a postal. Address Jim Rohan, Pres.

Belle City Incubator Co., Box 52 Racine, Wis.

Get My Price on This Guaranteed Incubator

For 31 years my reliable Incubator has been known to hatch every hatchable egg. I guarantee it to operate perfectly—to be made of perfect material and to embody perfect workmanship. You can't lose. The Reliable is virtually a poultry success insurance policy.

You Will Be Surprised

when you read my detailed description and prices. Send for them today. Either hot water or hot-air heat, 6 sizes.

Reliable Brooders are made of the same high grade materials and same workmanship as Incubators. Send for catalog and prices today. J.W. Myers, Pres. Reliable Incubator & Brooder Co.
Box 52 Quincy, Ill.

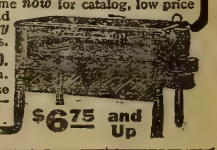
More Money from Poultry

NOW is the time to get in the money-making poultry business with one of my Successful Incubators—**only $6.75 up.** With the "Successful" no experiments or trial hatches are necessary—you can be sure of success every time.

SUCCESSFUL INCUBATORS
(Life Producers)
SUCCESSFUL BROODERS
(Life Preservers)

give most chicks—raise more chicks—and are guaranteed with the strongest guarantee ever put behind any machine on the market. Don't buy an incubator that guarantees less than I do. Send your name *now* for catalog, low price proposition, guarantee, and *Free Lessons in Poultry Raising* that insure success.

DES MOINES INCUBATOR CO.
59 Second St., Des Moines, Ia.
NOTE—Book "How to Raise 48 out of 50 Chicks", 10c—Catalog is FREE. Get it.



$6.75 and Up

99 CHICKS FROM 100 EGGS

$39.60 profits from $2.50 worth of eggs! That's the record of one of our customers. Hundreds of men, women and children coining money from the

"SIMPLICITY" COMBINED HATCHER & BROODER

All metal. Sanitary. Economical. Nothing to get out of order. Averages better than 85 per cent. hatches. 50 and 100 egg sizes. Fully guaranteed To start you we will lend you a Simplicity for your first setting. Try it. Count your chicks. Send it back if you are not delighted with it. Failure impossible. Experience not necessary. Write today.

Indianapolis Corrugating Co.
105 E. St., Indianapolis, Ind.

Latest Book "Profitable Poultry," 128 pages practical facts, 180 beautiful pictures. Latest improved methods to raise poultry. All about world's famous Runner Ducks, 52 other varieties pure-bred poultry. This Book, lowest prices, fowls, eggs, incubators, etc., only 5 cents.
BERRY'S POULTRY FARM, Box 49, Clarinda, Iowa

yourself because of your good judgment.

The demand is for "better poultry and more of it," and who is in a better position to supply this demand than the large army of farmers scattered over this country. Make up your mind that the best is none too good for you, and do not be satisfied until you have the best, for mongrels are not the best, not even "good enough," and are utilizing space that should be occupied by thoroughbreds. Conduct the poultry end of the farm on the same business principles that you do your blooded cattle and hogs and see if it does not pay you a greater per cent on the amount invested than any other crop on the place.

F. Mark.

THE HENHOUSE FOR HENS.

To the Editor of The Homestead:

Is the henhouse for man or for fowls? Is the first aim in building a house to satisfy the taste of the owner or to provide for the nature of the laying hen? In reply to these questions I wish to set forth a few facts. The first consideration in building a house for laying hens is to meet the demands of the laws which govern the physical nature of the occupants. Among these demands may be mentioned sanitation, exercise, warmth, privacy, convenience. The second consideration is to provide for the owner's economy (in time, labor and material) also convenience (in feeding, cleaning and gathering eggs).

There are four general physical habits of the laying hen. She scratches, feeds, lays and roosts. Therefore she should have rooms for scratching, feeding, laying and roosting. There are four general characteristics of the laying hen to be considered. She is affected by the weather, she is easily excited, she chooses privacy and selects the highest points in the house to roost. Therefore she should have a house to meet the changing conditions of the weather (cold, heat, darkness and light). Also the house should furnish a retreat, privacy and the highest point for roosting. I can show best how all these considerations are met by mentioning a house which I built in my back yard at the parsonage in David City, Neb. The house has met every requirement, and has tested 100 per cent efficiency in egg production.

To provide for a surplus of twenty pullets of a flock of thirty-eight, April 30th hatch, I built a house six by eight feet, ground floor, at an expense of $12 for material. The first floor was put one foot below the surface of the ground. Then above are the feeding, laying and roosting floors respectively. Windows are set at half angle to catch the direct light and heat rays of the sun for the scratching and feeding floors. The cloth ventilation is placed at one end of the fourth or roosting floor. Litter, feed and water are placed from the south side. The eggs are gathered and the roosts are cleaned through drop doors at the north.

The twenty pullets in the newly planned house laid 363 eggs during December, while the eighteen pullets of the same hatch in an old-style house of twice the dimension, equally warmed, lighted, ventilated, laid one-third less eggs per pullet on the same rations during the same month. How is the difference accounted for? Simply the newly planned house meets all the conditions governing the nature of the laying hen. It also provides economy and convenience for the owner.

This house can be built by any one, portable, any length, and for any number of fowls. It is especially adapted for the "fresh air" method, and for an open summer house. In the brooding season it is convertible into three houses: namely, the two lower floors will provide for two flocks of chicks, while the upper two floors will remain the quarters for the laying hen. I would be glad to hear from those who have used the four-story house, and hear the testimony of others.

Nebraska. Robert A. Harrison.

POINTERS.

—Single Comb Brown Leghorn and Rose Comb Rhode Island Red eggs are advertised for sale by A. B. Jordan, Moravia, Iowa.

—The advertisement of V. H. Conner, Shell Rock, Iowa, offering Single Comb Buff Orpington eggs from scored stock appears in this department.

—Stock, eggs, baby chicks and forty Buff Orpington pullets are advertised for sale by C. E. Coleman, Clarinda, Iowa, elsewhere in this department.

—The advertisement of C. B. Alverson, Moravia, Iowa, offering Rose Comb Rhode Island Reds for sale, appears on another page of The Homestead.

—Read the advertisement of Mrs. C. O. Houghton, Guthrie Center, Iowa, that appears in his department, if wishing to buy White Wyandotte cockerels.

—White Wyandotte cockerels may be purchased from Jas. W. Grinstead, Jr., Mitchellville, Iowa, as per his advertisement elsewhere in this department.

—If wanting high-class White Plymouth Rocks read the advertisement of Mrs. J. C. Forsythe, Griswold, Iowa, that appears in this department of this issue.

—The advertisement of Edward S. Hebron, Strawberry Point, Iowa, offering white winged Buff turkey toms for sale, appears elsewhere in this department.

—W. I. Mouser, Red Oak, Iowa, breeder of Rose Comb Rhode Island Reds, writes: "We have had good sales of stock and are offering the best Single Comb cockerel I ever saw, Omaha King, for sale. Also trios and pens. We won at the Southwestern Poultry Show, Clarinda, Iowa, 718 on exhibition, the silver cup for the ten highest scoring Rhode Island Reds. On Single Comb Reds we won first on pen; first and second on cockerel; first, second and fourth on cockerel; first, second and fourth on pullet; first on hen. On Rose Combs we won first and second on cockerel, first on hen and second on cock. We also won a large number of premiums at Omaha, Villisca and Red Oak. At Omaha we

Is Your Home Sheltered?

Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

TRANSPLANTED
100 EVERGREENS $7.50
Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of

IOWA'S GREATEST EVERGREEN SPECIALIST.

I ship direct from the ground on the day the order is received. The trees you buy of agents have been out of the ground often three weeks. That is why they don't grow. Buy direct of me and you will be satisfied. We can also sell you prize-winning

"True-to-Name" Fruit Trees

and berry plants guaranteed to prove hardy or cost you nothing. Catalog of special bargains FREE.

Earl Ferris Prop.
EARL FERRIS NURSERY CO.
210 Bridge St. HAMPTON, IOWA.

Keep Them Alive—

What's the use of hatching a big lot of chicks and then losing 60 per cent through neglect and disease. Learn how to cure and prevent all poultry diseases

The Kellerstrass Way

Don't be afraid of White Diarrhoea, Kellerstrass' Remedy stops it quickly. Sold in 25c, 50c, and $1.00 sizes. If your dealer cannot supply you send direct to us. Get the Kellerstrass Book telling HOW TO MAKE MONEY IN POULTRY. **FREE** How to start, how to select layers; what to feed; what to do for sick chicks and old birds.

ROYAL MFG. & IMPT. CO.
705 Royal Bldg., Kansas City, Mo.

More Chicks

Bigger, stronger and healthier, because hatched under right conditions. Send for catalog of the 1913 model automatic

QUEEN Incubator
28 Points of Superiority

Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.

P. M. WICKSTRUM, Incubator Man
Box 10 Lincoln, Neb.

ALFALFA $9.75 Per bu.
Best Non-Irrigated Seed—99.6% Pure

95% Germination absolutely guaranteed. No seed better. We sell good seed for $8.00. Also have Turkestan alfalfa. Write now for free samples and save money. Our 76-page book sent Free, giving valuable information on growing alfalfa. Write today.
A. A. BERRY SEED CO., Box 403, CLARINDA, IOWA

Genasco
THE TRINIDAD-LAKE-ASPHALT
Ready Roofing

Get roofing you don't have to repair and renew every little while. You want the roofing made with a genuine waterproofer.

Genasco is made of Trinidad Lake asphalt—Nature's everlasting waterproofer.

It doesn't split, crack, rot, rust, or crumble. Gives lasting protection against all weathers.

Ask your dealer for Genasco. Mineral or smooth surface. Look for the hemisphere trademark. Every roll of smooth surface Genasco is supplied with patented **Kant-leak Kleets**, that make seams watertight without cement and large-headed nails—prevent nail-leaks. Write us for samples of Genasco and the Good Roof Guide Book, free.

The Barber Asphalt Paving Company Philadelphia

Largest producers of asphalt, and largest manufacturers of ready roofing in the world.

New York
Chicago San Francisco

175 Egg INCUBATOR and BROODER BOTH FOR $10.85

Delivered Freight Paid (East of the Rockies)

The biggest incubator bargain of the season. Think of it! You can now get the prize winning Wisconsins—winners in the three big hatching contests for only $10.85 for 175 egg capacity, or

125 Egg Incubator and Brooder Both for $10

Why take chances with cheaply constructed machines when you can get machines built of genuine California Redwood with Hot Water heat, double walls, dead air space between, double glass doors, copper tanks and boilers, self regulating and extra deep nursery under egg tray, incubator and brooder are shipped complete with thermometers, lamps, egg testers—set up ready to use when you get them.

(20) **5 Year Guarantee—30 Days' Trial** We agree to keep our machines in repair for five years FREE of charge except parts broken by carelessness. We also allow 30 days trial right in your own home. Incubators finished in natural colors showing the high grade California Redwood lumber used and not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today or send in your order direct from this advertisement and save time. Money back if not satisfied. Write us today. Don't delay. **WISCONSIN INCUBATOR CO., Box 119, Racine, Wis.**

WHY INCUBATOR CHICKS DIE.

THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The cause and tells of a cure. **Book Absolutely Free for the Names.**

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA.

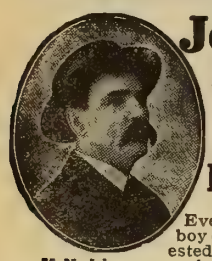
Martha Washington
New York's Exclusive Woman's Hotel
29 East 29th Street, Near 5th Avenue
Restaurant and Tea Room for Men and Women
European Plan. Rates $1.50 and Up.
Convenient to subway and crosstown car lines. Center of Theatre and Shopping District. 450 rooms with telephone. Baths free one ach floor. Fireproof. European Plan.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

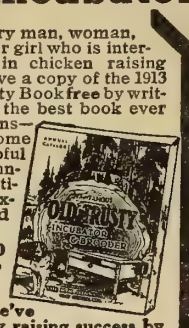
F. K. REMEDY CO., 700 2d St. Arkansas City, Kan.

Now is the Time to Get Johnson's 1913 Book About the Old Trusty Incubator



M. M. Johnson

Every man, woman, boy or girl who is interested in chicken raising can have a copy of the 1913 Old Trusty Book **free** by writing a postal for it. It's the best book ever written by the Johnsons—"home made" and home printed—full of real helpful facts gleaned by the Johnsons from their own practical experience and the experience of over 400,000 Old Trusty customers.



There are over 400,000 good reasons for you to read this book. They are the 400,000 Old Trusty customers who we've started to biggest poultry raising success by reading the *Johnson books* issued in years past.

Send a Postal The Old Trusty is a triple cased machine—inner case of high-grade ⅞ inch powder-dry clear California Redwood—(not a knot in a mile)—then a case of highest-grade asbestos, fire proof insulation—and then the outer case, covering legs and all, of galvanized metal in handsome mottled finish. Johnson's machine is equipped with guaranteed not-to-leak cold-rolled copper tank and heater—direct acting regulator. Price, still less than $10 for 1913, freight prepaid east of Rockies and allowed that far to points beyond. Write postal *now*.

JOHNSON, *Incubator Man*, Clay Center, Nebr.

Built Exactly Alike for Biggest Average Hatches — 30 to 90 days Free Trial — Freight Paid E. of Rockies

Less Than $10

This Man Is Getting Rich So Can You

FIRST read this letter—then send for those two free books and be convinced that there is money for you in our proposition. Here's what one out of many successful men say:

It seems as if I cannot call on my customers often enough. I find that when a person buys Ward's *once*, it is "Ward's" always afterwards. To anyone wishing pleasant and profitable employment, I would say—"Sell Ward's Remedies."

Sincerely yours, John T. Morrison.

If you will put just a little energy to work, and make a start selling Ward's Preparations, big money and a life-long job may be yours. It is a simple plan to carry the store to the people.

Write Today For Free Books

We know you can earn money—plenty of it—in the finest kind of way. Many of our agents earn from $100 to $300 a month. Why not you? The expense is small and we furnish supplies free.

Don't call any man "boss" when the way is open to work that's easy, pleasant, good for your health and *fine* for your bank account. Write for the books *now*. Address

Dr. Ward Medical Company,
575 Washington Street, Winona, Minn.

DITTO FEED GRINDER

An honest mill sold in an honest way. Try it.

Triple-geared, Ball-bearing, Double-cut. Keep it if satisfied; if not, return it at my expense. No money down. I trust you. Fastest and best grinder made. Saves twice its cost every year. Get my free catalog. Also power grinders, gasoline engines, scales and derricks.

G. M. DITTO, Box 201 JOLIET, ILLINOIS

140 EGG INCUBATOR and 140 CHICK BROODER

The incubator is California Redwood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. **30 Days' Trial**—money back if not O. K. Write for **Free** Catalog today.

Both For **$10**

Freight Paid East of the Rockies

Ironclad Incubator Co., Dept. 59 Racine, Wis.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1913 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. **Only 15c.**

C. C. SHOEMAKER, Box 896 Freeport, Ill.

won the much coveted specials for shape and color."

—Elsewhere in this department of The Homestead will be found the advertisement of Mrs. H. Wood, Moville, Iowa, offering White Plymouth Rock eggs for sale.

—R. H. Patterson, Versailles, Ill., is quoting very low prices on fawn, white and English standard Runner duck eggs in his advertisement that appears elsewhere in this department.

—"I have the finest lot of Single Comb Buff Orpington cockerels I ever raised," writes Dan McCarty, Winthrop, Iowa, in sending in copy for his advertisement appearing in this department.

—Mathew Mertz, Des Moines, Iowa, as per advertisement elsewhere in this department of The Homestead, wants to buy Barred Plymouth Rocks, Houdans and other varieties of land and water fowl.

—Buff Orpington eggs from prize-winning pure Cook strain and Mammoth Buff geese are advertsed for sale by William Cook, Eddyville, Neb., in his advertisement appearing elsewhere in this issue.

—Geo. W. Harris, Shelby, Ohio, is offering Ancona cockerels for sale at prices stated in his advertisement found elsewhere in this department. He will also have chicks and eggs for sale in season.

—Mrs. W. L. Stoner, Henry, Ill., breeds Single Comb Rhode Island Reds exclusively. Her advertisement will be found elsewhere in this department. She writes: "I have a pen of fine colored birds from the East. I also have a range flock of 250 hens and pullets. They are hardy and healthy and good layers."

—Mrs. Bert Stiles, Garden Grove, Ia., whose advertisement appears in this department, reports as follows: "I won first on old tom, first on young tom and first on pullet at the Weldon Poultry Show, January 23-25, 1912." She has only a few toms left, but they are extra large boned and well marked.

—Mrs. Laura Mather, Clarksville, Ia., one of the best prize-winning strains in has seventy-five pure-bred, large, handsome Rose Comb Brown Leghorn cockerels which she says will give good satisfaction to lucky purchasers. Her advertisement appears elsewhere in this department.

—"The Mammoth Bronze turkey toms I am offering for sale in my advertisement in this paper," writes A. D. Walker, Memphis, Mo., "are bred from a strain of winners at the leading shows, including Chicago, Madison Square Garden, St. Louis World's Fair, Indianapolis, Kansas City, Peoria and state fairs."

—Jas. Cockerton, Whiting, Ia., writes: "I still have a number of good, big, early hatched Barred Plymouth Rock cockerels weighing eight to nine pounds. They have good combs and are well barred. Am selling them at $1, $1.50 or $2. Can guarantee to please Homestead readers." See advertisement in this department.

—Chas. J. Mackey, West Liberty, Ia., sends his egg advertisement for Single Comb White Leghorns to The Homestead and states that he is very anxious to book orders now for eggs to be furnished when wanted. In previous years he has had to return money for stock and eggs because of delay on the part of his customers in ordering until late in the season. Send for free circular today.

—Albert A. Foster, Russell, Iowa, in ordering the insertion of his advertisement of Barred Plymouth Rock cockerels, appearing in the regular department of this paper, writes: "We have been breeding for the past fifteen years and have purchased both stock and eggs from Bradley's best lines at good long prices. Our birds have never failed to win a very large share of prizes offered where we have exhibited."

—John M. Hall, Williams, Iowa, breeder of White Wyandotte chickens, in furnishing copy for his advertisement appearing in this department, writes: "During the month of January we sold over $100 worth of ducks by means of a three-line advertisement in your paper. We have tried other papers with our advertisement, but The Homestead beats them all to pieces. We have now sold all our surplus stock. We wish to thank our customers for the orders we have received and to announce that we are now ready to take orders for eggs from Mammoth White Pekin ducks and White Wyandotte chickens."

—Mason C. Ogg, Monroe, Iowa, breeder of Barred Plymouth Rocks, writes: "We have only a few cockerels left, but they are some of our best stock. Among them is the cockerel that won fifth in the recent Des Moines show, also a cockerel that scored 91¾ by Judge Shellabarger in the show room. We have our breeding pens mated for the season and find we still have some choice cockerel-bred pullets to spare. They are splendid in color, dark, snappy barring, good shape and bone, every one the daughter of a prize winner. We guarantee a square deal to everyone. We receive many words of appreciation from satisfied patrons." See advertisement elsewhere in this issue.

—With this issue of The Homestead Mrs. A. M. Johnson starts an advertisement offering eggs for hatching from the most select sort of Single Comb Rhode Island Reds to be found. These pens are headed by the first-prize cock at the Nebraska State Poultry Show a year ago and also from a pen headed by the second-prize cockerel at the Nebraska state show this winter. These eggs are the sort to buy if one wiches the very best sort of breeding stock and the prices named are as low as are possible to find for this class of stock. The second-prize cockerel this year was shown in a class of thirty-seven. Write for prices and mention The Homestead. Address Mrs. Johnsen at Clarks, Neb.

ORPINGTONS.

MAPLE RIDGE POULTRY FARMS Breeders of B and W. P. Rocks, S. C. W. Orpington, W. and P. Wyandottes, R. C. R. I. Reds, B. C. bantams. P. and I. R. ducks, M. B. turkeys. Splendid lot youngsters ready for winter shows or breeders. Satisfaction guaranteed. Write J. W. Mowery & Sons, R. 2, Hedrick, Iowa.

300 S. C. Buff Orpington cockerels and pullets, $1.50 and $3 each. A few exceptionally good birds at $5. Our Buffs won 16 premiums at Marshalltown poultry show. H. Cavell, Haverhill, Iowa.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 for 100; Utility flock $5 for 100 Book orders early. V. H. Conner, Shell Rock, Iowa

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley. Neola. Iowa.

50 S. C. Buff Orpington ckls. Fine, large birds of exhibition color and solid buff wings. $2 to $5 each. Address Dan McCarty, Winthrop, Iowa.

25 S. C. WHITE Orpington ckls. of the Kellerstrass strain for sale at bargain prices. Address M. D. Korns, Hartwick, Ia.

Choice Crystal White Single Comb Orpington Ckls. Kellerstrass strain. H. A. Hamilton, Yutan, Neb.

Choice S.C. Buff Orpington ckls., large golden buff birds. Owens' strain. Reasonable prices. Evergreen Poultry Yards, R. 4, Waterloo, Iowa.

CRYSTAL WHITES direct from Kellerstrass ckls. $2, $3, $5. Trios and pens. Eggs, $8 per 100. Also S. C. Buffs. Orpington Farm, Big Rock, Ill.

CHOICE Buff Orp, ckls. scored by Judge Keeler. Prices reasonable. Fine Buff turkeys weighing up to 22 lbs. Mrs. Isaac Black, R. 2, Macomb, Ill.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS EXCLUSIVELY

STOCK AND EGGS SHIPPED ON APPROVAL

Score Card by Shellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city.

HENRY G. WALKER, IOWA CITY, IA.

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive circular. Address

P. H. THIEL, - Renwick, Iowa.

Brilliant Red Strain

SINGLE Comb Reds. Strong, vigorous cockerels, purest blood. Trios and pens mated. Eggs $3 for 50, Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

PRIZE-WINNING R. C. R. I. REDS Long, black, big bone, red eyes and low tail. Score 92½ to 96; won 13 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2.50 and $5 per 15. Circular free. Address C. B. Alverson, Moravia, Iowa.

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15, $5 per 100. Write **Mrs. W. L. Stoner, - Henry, Illinois.**

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. REDS for sale. Choice cockerels and few pullets. Also eggs from choice pens. When you buy here you get the best. O. A. Knerr, Beaver Crossing, Nebraska.

MOUSER'S REDS (Both combs.) Cockerels, pullets, trios and pens for sale. Also Omaha King, first cock at Omaha. Address **W. I. Mouser, R. 5, Red Oak, Iowa.**

R. C. RHODE ISLAND REDS

Big-bone, vigorous cockerels at reduced prices. Baby chicks and eggs. F. N. Blake, Maquoketa, Iowa.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad. Iowa.

S. C. R. I. Red Cockerels $1.50 up. Large healthy birds. Address **Mrs. Sophia Rader, Laurel, Iowa.**

S. C. R. I. Red Ckls. From high-scoring stock, large, vigorous, rich red birds. Prices reasonable. Mrs. Howard R. Moore, R. 1, Dexter, Ia.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

ROSE C. Red ckls. $2.50, 3 cock birds $3 each. Strong, vigorous, dark red birds. Ancona ckls., hens, pullets $1.50 to $3. Eggs March 1st. J. E. Kafer, Rolfe, Ia.

REMOVAL SALE Sold my place and will sell S.C.R. I. Red ckls. and pullets at a bargain. One prize cock bird. Alex McNeill, Harlan, Ia.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia

R. C. R. I. Red Ckls. Sale prices. Scored $2.00 up. Quality guaranteed. **Red Poultry Farm, Randalia, Ia.**

FOR sale, R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

S. C. R. I. Red Cockerels Scoring from 90 to 93½. $2.50 to $5.00. Unscored $1.00. Address W. I. Price, Ira, Iowa.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

BLACK Langshan ckls. Big boned, farm raised. Satisfaction guaranteed. Unscored 3 for $5. Alex Peterson, Pleasant View Stock Farm, Pomeroy, Ia.

BLACK Langshan ckls, scoring from 90 to 94½ winners at Iowa State Fair. These birds are large heavy-boned. Address A. Dearinger, Reasnor. Iowa

Rose and S. Comb Black Minorcas. B. Langshans from our silver cup prize winners. Elmwood Poultry Farm, Blakesburg, Iowa.

B. Langshans, I. R. ducks. Eggs from high scoring pens $1 to $3 per 15. Circular of winnings. Bert A. Randell, Mt. Zion, Ia,

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

CHOICE extra, large, heavy-boned Black Langshans. Write for prices. Eggs in season. Address Mrs. G. H. Tutt. Marathon, Ia.

BLACK and W. Langshans, S. C. Buff Orpingtons, Light Brahams, R. C. R. I. Reds, choice stock prices right. Mrs. S. E. Newell, R. 6, Aububon, Ia.

WYANDOTTES.

A. L. Anderson

Breeder of high-class **GOLDEN AND SILVER LACED WYANDOTTES,** **Indianola, Iowa.** 20 miles south of Des Moines.

PURE-BRED WHITE WYANDOTTE COCKERELS

SCORED and utility stock. Also white Holland Turkeys. Eggs in season. Address **A. J. MENEFEE, ADAIR, IOWA.**

FOR SALE White Wyandotte Ckls. $2 each while they last. **Jas. W. Grinstead, Jr., R. 1, Mitchellville, Ia.**

Faha's Silver Laced Wyandottes Grand type. Superb lacing. Trap-nested layers. 50 fine breeding pens at $10 per pen if taken soon. Write me your wants. Frank Faha, Jr., Box 620, Dyersville, Iowa.

Large Strain of Buff Wyandotte Cockerels

FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

50 Silver Wyandotte Ckls. Farm raised, from prize-winning stock. Score cards by J. L. Todd. Circulars free. Prices reasonable. John A. Johnson, R. 2, Pilot Mound, Iowa.

WHITE WYANDOTTES exclusively. The blue ribbon strain. A few cockerels and pullets. Also a few hens at prices that are right. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

WHITE Wyandotte cockerels. Keeler strain. I have a few choice and utility cockerels left at reasonable prices. Must have room for breeding stock. Mrs. C. O. Houghton, Guthrie Center, Ia.

R. C. Silver Laced Wyandotte Choice cockerels, good markings, wt. 6 to 8 lbs. Price $2 ea., or 3 for $5. Address Mrs. Frank Hoffman, Birmingham, Iowa.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

Silver Laced Wyandotte cockerels for sale. Choice birds. Prices right. Glen and Mae McLaughlin, R. 5, Manning, Iowa.

BUFF WYANDOTTE COCKERELS Farmers' fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

White Wyandotte Ckls. $2.00 to $10.00. Eggs and chicks. Describe your flock. White Wing Poultry Farm, C294, Perry, Ia.

FOR SALE 45 Buff Wyandotte cockerels. Write me the kind you want. I have them. Address **R. B. Rowe, Indianola, Iowa.**

THE BEST of Partridge Wyandotte cockerels and Collie pups. M. B. turkey toms. W. W. NEELY, Greenfield, Iowa.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

WHITE WYANDOTTE COCKERELS $3, $2, $1.50 each. Mrs. Geo. F. Pierce, Route 4, Sac City, Iowa.

White Wyandotte Cockerels $1.50 each. A few Muscovy ducks $1 and $1.50 each. Mrs. T. W. Glass, R. 5, Sac City, Ia.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

W. Wydts.; sired by pure Keeler ckls, Write for prices on high-scored ckls. Unscored ckls. $1.50 ea.; hens $1 ea. Mrs. C. A. Robinson, Griswold, Ia.

PARTRIDGE Wyandottes, Buff Wyandottes. Scored ckls. $2 and up. unscored and pullets $1 each. Get busy. Address Thos. L. Morlan, Indianola, Ia.

Partridge Wyandotte ckls. and pullets from high-scoring birds at a low price. Eggs in season. Good Bros., Montezuma, Iowa.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Ilsley. Milo, Ia.

EGGS from Pure White Wyan. Chickens. $2.00 22; $3.00 40, $6.00 100. Farm range. John M. Hall - Williams, Iowa

PLYMOUTH ROCKS.

BIG WHITE ROCKS

A HIGH CLASS of quality. Stock rarely excelled in western yards. Still have left 35 high-scoring cockerels. Priced $3 to $15 each. Have selected 12 birds from my yards for use at the state college, Ames Iowa. Also am sending a $50 pen, 4 birds, to a party in Pittsburgh, Pa. Shows their value is being appreciated more extensively. Favor me with your egg orders during the setting season. Pen one, $6 for 15 eggs; from 2d pen $4; range flock $1.50. SPECIAL.—One half price for all orders booked in February. Satisfaction guaranteed. Write wants. **MRS. J. C. FORSYTHE, Griswold, Iowa.**

BUFF PLYMOUTH ROCKS

BRED from **LAYERS** and **WINNERS.** A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address **J. O. KOERTH, - - Ionia, Iowa**

B. P. R. COCKERELS

I AM offering 100 choice B. P. Rock cockerels. Easton-Shellenbarger-Thompson strains $1 to $2. P. R. Rocks hens and pullets for sale at $12 a dozen. **JAMES COCKERTON, Whiting, Iowa.**

250 BARRED P. ROCKS FOR SALE

LARGE barred, nicely marked, sires scoring 90 to 92¼ this show. In 7 showings I won 38 firsts, 19 seconds, 4 thirds, 3 fourths, 2 fifths. Nothing but first-class stock shipped. Prices reasonable. Turkeys all sold. Address J. W. Wagner, Monroe, Iowa.

White Plymouth Rock Cockerels!

TO close them out by Feb. 10th, am selling at $1 and $2 each. I won 1st and 2d cockerel at Grinnell. They weigh from 7 to 10 lbs. each, good color, shape and nice yellow legs. Order from this ad. They are the kind that will please you. Address **Chas. L. Berry, R. No. 6, Iowa City, Iowa.**

Big Barred Rock Cockerels

200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address **Theo. Martin - - Bellevue Iowa.**

BARRED ROCK COCKERELS

COCKERELS nearly sold out. We still have a few choice cockerel mating pullets to sell at $2 each. Address **MASON C. OGG, Monroe, Ia.**

WHITE ROCK COCKERELS FOR SALE

SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Lerwick, Iowa.

"PARTICULAR" BARRED PLYMOUTH ROCKS

THE winning and laying kind. Cockerels $2.00, $3.00 and $5.00 each. Large bone, clear color, deep, narrow barring. Mated trios $5.00 and $8 00; pens $10-$14. Birds returned at my expense if not satisfactory. Address J. M. Detwiler, R. 2, Dunlap, Iowa.

IVORY WHITE ROCKS

S. C. Orpingtons, R. C. Leghorns, Wyandottes. Holland turkeys, Indian Runner ducks. Embden geese. Scored cockerels, pullets, hens for sale, $4.50 to $10. Eggs in season. $1 to $10 per 15. Address Ivory White Poultry Farm, Greene, Iowa.

White Rock Cockerels

EXCLUSIVE. Strictly high-class, 125 from 6½ to 10 pounds. Prices for quick sale. $1, $1.50 and $2. Eggs in season. A. C. BINNIE, Alta, Iowa.

White Rock Cockerels

STRICTLY high-class. Will close out my cockerels at the following prices: $2 each, 3 for $5; 6 for $9.00. Money back if not suited. Address **JOHN W. HOUSELOG, Bellevue, Iowa.**

FOR SALE WHITE and PARTRIDGE Plymouth Rocks of the best strains, good size, shape and color. Before you buy write me. My prices are right for quick sale. Address **BERTEL HANSEN, Alta, R. 2, Iowa.**

MY ENTIRE FLOCK OF BARRED ROCKS

and Mammoth Bronze turkeys for sale. Some prize winners. Address Mrs. P. L. Carroll, Hampton, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Backman, Blakesburg, Ia.

Bradley Barred Rocks and S. C. Reds

Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

BARRED PLYMOUTH ROCKS FOR SALE

200 B. P. Rocks that will please in quality and price. Large and evenly barred. Try us for a square deal. **C. G. GOOD, Ogden, Iowa.**

Barred Plymouth Rock Ckls. and pullets from winners at leading shows. Large birds, fine egg records, from $1 to $5 and satisfaction guaranteed. Address J. F. Davidson, Lamont, Iowa.

ATTENTION. Order your eggs early if you want prompt service. Eggs 5 cents each from choice, large, healthy, pure white, pure-bred, Fishel strain, W. P. Rocks. Address Mrs. H. Wood, Moville, Ia.

WHITE Rocks. Ckls., comprising winning points of show birds, from high scoring parent stock. Eggs by setting and 100 guaranteed to be high-class. Prices reasonable. Mrs. E. S. Wolcott, Richland, Ia.

BARRED R. ckls. $3 up. Guarantee price right, quality considered. Feathers from any section sent on request. Chas. McCaskey, R. 2, Ogden, Ia.

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Mammoth Pekin ducks. Prices reasonable. Mrs. M. W. Coan, Little Cedar, Iowa.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

M. B. young toms, scored, unscored, from scored stock. Large bone, nicely marked. 1st Weldon poultry show. Mrs. Bert Stiles, R. 2, Garden Grove, Ia.

75 Fine Barred Rock ckls. and **50** Mammoth Pekin ducks for sale. Write for prices. Address Wm. Meyer. R. 1, Blue Earth, Minn.

WANTED to buy, Barred Rocks, Houdans, and many other varieties. Toulouse geese, Pekin and I. R. ducks. Matthew Mertz, Des Moines, Iowa.

75 BARRED ROCKS and S. C. Reds from high-scoring, farm-raised stock; $2.00 to $3.00 each. Mrs. Jas. McNally, Victor, Iowa.

BARRED Plymouth Rock cockerels. E. B. Thompson Ringlet strain. Prices right according to quality. Address Otto Pfeiffer, Gordon, Nebraska.

PLYMOUTH ROCKS.

BUFF ROCKS

WINNERS of the 2d best cock, cockerel, hen and pullets at the N. W. District meet of Buff Rock club at Grinnell, Iowa, January 1 to 4, 1913. Also winning silver cup for largest amount of Buffs scoring 90 points and better. 9 competitors, 94 birds in class. Choice cocks, cockerels and hens for sale at $1.50, $2, $3 and $5 each. Write your wants. Address **M. E. KRAFT, R. 2, Brooklyn, Iowa.**

Exhibition Barred Rock Ckl.

From our 1st prize pens. Pure Bradley very closely related to Chicago and New York winners Prices $2.00 to $10.00 each. Satisfaction guaranteed. **Albert A. Foster, - - Russell, Iowa**

HIGH-CLASS Barred and White Rock ckls. $1.50 to $3, pul. $1. Breeder of heavy-boned Poland Chinas. Jas. H. Duncan, Lone Oak Farm, Lineville, Ia.

CKLS. bred Barred P. R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

Thoroughbred White Plymouth Rock ckls. for sale at $1 to $1.50 each. Address W. C. Sundermeyer, Rake, Iowa.

Pure-Bred Plymouth Rock Cockerels for sale $1.50 each. B. L. Crowell, Rudd, Iowa.

100 FINE Barred Plymouth Rocks hens and pullets. A good useful lot. Best breeding, good layers. Address Orville O. Jones, York, Nebraska.

BARRED Rocks, S. C. R. I. Reds. Scored ckls., both varieties, evenly marked, extra heavy weight. Priced according to score. H. B. Simpson, Albany, Ill.

WHITE ROCK cockerels and pullets $1.00 each. Scored birds scoring 90 to 94, $1.25 to $2.00, from prize winners. Mrs. G. W. Shaw, Monroe, Iowa.

FOR sale. White Plymouth Rock cockerels. Utility stock, farm raised. Fishel strain. $1.00 to $2.00 each. Address C. H. Sprague, Clinton, Illinois.

BARRED Plymouth Rock Ck'ls. Large, well barred, healthy birds. Good laying strain. Reasonable price. Mrs. J. H. Heilman, R. 4, Holstein, Ia.

BUFF Rocks. Cockerels, hens, pullets, eggs, bred successfully 15 years. The very best. Lowest cost. Address J. H. Kelley, Altoona, Iowa.

FOR SALE—W. P. Cockerels at $1.50 Each.
Address Moncrief Bros., Center Junction, Iowa.

FINE White Rock cockerels from large, farm-raised, prize-winning stock, at reasonable prices to quick buyers. Mrs. Jas. Pedley, Britt, Iowa.

LEGHORNS.

SINGLE COMB BROWN LEGHORN

Cockerels and hens. Single birds, half and dozen lots. Indian Runner ducks, pure white egg strain. **J. A. PENN, Phone 87, ALTA, IOWA**

Rose Comb Brown Leghorns

EXCLUSIVELY.

15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $5; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

I Have Sold My Farm

AND will locate near New London, Iowa, March 1, 1913, where I will continue breeding the best possible in S. C. Brown Leghorns. 8 cockerels, $2.00 each. Circular free. Orlando Jacobs, Mediapolis, Ia.

S. C. W. LEGHORNS

CHALK WHITE. Six blue ribbons Des Moines, 1912. Eggs $2 to $5 per 15. Utility $6 for 100. Address J. M. Williamson, R. 1, Des Moines, Iowa.

SINGLE COMB BROWN LEGHORN hens, cockerels and pullets, heavy-laying strain, 75c and $1 each; also White African guineas and White Holland turkeys. Satisfaction guaranteed. Edw. Dooley, Selma, Ia.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address **R. S. Ketcham, Box H, Bronville, Indiana.**

EGGS THAT WILL HATCH From pure-bred farm-raised S. C. Brown Leghorns and R. C. Rhode Islands, $1 for 15. **A. B. JORDAN, - Moravia, Iowa.**

Must Sell My choice flock of S. C. W. Leghorn hens and pullets. Young's strain. As I have to move Mar. 1, will make special prices for quick sale. C. H. Drake, Hazleton, Iowa.

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

S. C. BROWN LEGHORNS B. P. Rock cockerels good stock. Write for prices. Address Ida Hepp, R. D. 1, Audubon, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. **F. Bollman, Wall Lake, Ia.**

R. C. White Leghorns. A choice lot of pure white cockerels $1.25 each. Three or more, $1 each. Eggs in season. Mrs. Geo. H. Tutt, Marathon, Iowa.

S. C. W. LEGHORNS. Young's strain, unscored $1, others scoring to 94½ points. Eggs $5 per 100. Mrs. Wilson McIntyre, Red Oak, Iowa.

R. C. B. Leghorn Ckls. If taken soon, $ each or six for $5. Address Mrs. G. W. Stoval, Audubon, Iowa

R. C. W. Leghorns $1 ea. Scored birds scoring 91 to 94½ at $1.25, $1.50, from prize-winning stock. Ben R. Poo Unga, Monroe, Ia.

PURE BRED Rose Comb Brown Leghorn cockerels. Fine birds. $1 each or six for $5. Address Mrs. Laura Mather, Clarksville, Iowa.

FOR SALE Rose Comb Brown Leghorn cocks and cockerels. Write for prices. Address F. Bowman, Eldora, Iowa.

Choice R. C. Brown Leghorn cockerels at $1 each 6 for $5. P. W. Reece, R. 3, Elmore, Minnesota.

S. C. W. Leghorns, extra good birds, $10 per doz. Won 1st and 2d at Maquoketa this fall. Mammoth snow white Holland toms $5 ea. Mrs. Geo. Roe, Bellevue, Ia.

R. C. B. LEGHORN Pullets and young hens for sale from prize-winning stock, $10 per dozen. Addre s M s. J. J. Griffith, Lorimor, Iowa.

R. C. B. LEGHORN Cockerels early hatched, 75 cents and up. I. D. drakes and ducks 75 cents and up. Mrs. G. W. Brockway, Clarksville, Ia.

TURKEYS

WHITE W'NGED, BUFF TURKEYS Toms $4.50 Pens $3.00; 2 pens $5.
Address Edw. S. Hebron, Strawberry Point, Iowa.

MAMMOTH BRONZE TOMS sired by a 50 lb tom. A fine male collie. Registered Holstein cows. Address **E. J. THOMAS, West McHenry, Illinois.**

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

FIVE White Hollandtums, 3 ky to 7 50 for old one and $5 each for 4 young toms. 2 African ganders, large, stately fellows, $6 each. 3 Indian R. drakes, at $2 each. Address J. P. Hunt, Mt. Pleasant, Iowa.

FOR SALE—Large-boned, White Holland toms $4. H. M. Williams, R. 6, Spencer, Iowa.

WHITE HOLLAND TURKEYS ELEPHANT strain. Both sexes. Prices right. Mrs. J. H. Hanlon, Lawler, Ia.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. **LONGWORTH'S, Polk, Iowa,**

MAMMOTH BRONZE TURKEY TOMS S. C. White Orp. cockerels. Barred rock cockerels. Mrs. J. A. Campbell, Manning, Ia.

FOR SALE Choice M. B. turkeys, toms and pullets. Also choice barred P. Rock Cockerels. **Ring Bros., Newton, Iowa.**

FOR SALE Pure-bred M. B. turkeys, sired by a 42-lb. yearling tom. Write for prices. Sam Thronson, R. 2, Lake Mills, Iowa.

BOURBON Red Turkeys. A few nice toms for sale. Good color, large bone and healthy $4.50 each. W. M. Peterson, Route 3, Corning, Iowa

M. B. TURKEYS Giant strain. Marked right and prized right. Address C. A. Molesberry, Plymouth, Iowa.

White Holland Turkeys. Extra large. Eggs and trios furnished. Prices right. Address Mrs. C. J. Way, Bussey, Iowa.

Mammoth Bronze Turkeys Sire scoring 93¾ Toms $5, hens $3.50. Address Geo. W. Stewart, Floyd, Iowa.

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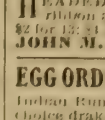

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About Rural Teachers.

By Minnie Stearns.

I AM much interested in the contribution of W. H. Miller, Wisconsin, on the subject "Investing in a Poor Teacher," and I wish there might be a round-table talk on the subject.

While attending a series of Farmers' Institutes in Central Illinois it was my privilege to listen to the best talk on this, or I may safely say on any other subject, I have ever heard. This man was a county director, and the only progressive one of the three—and this is not meant in a political sense either.

This director desired to repair, ventilate and properly heat the one-room building, by installing a modern heater. This heater by the way is situated not in the basement but in one corner of the room. Being president of the board he called nightly meetings for three weeks; if one of the opposing directors attended, both attended, each fearing the other would be won over in his absence. The final outcome was reached when the harder kicker of the two gave up in despair and disgustedly said: "If we've got to go to all that expense you have my permission to build a new house!"

Then came the question of a teacher. One member of this board was sending a trotting horse through the fair circuit and was paying a man of experience and trained for the work $100 a month and all expenses. These are the exact words of the same man who was averse to paying a teacher more than $45 a month. "The first school is always the best." The third member rather thought it policy to "live up to the new house" and employ a competent instructor.

"If we give sixty or seventy dollars a month, how do we know we'll get the worth of our money?" ventured the cautious one. "Leave that to me," replied the progressive one. When it was known that this particular school desired a $75 teacher—why, $75 teachers were legion. "Do you believe in practical problems?" "If necessary could you take your school to a neighboring crib or hay barn and get the contents of the grain in that building?" "Would you supplement the text-books with problems of the pantry and cellar and dairy?" "Could you tell these boys and girls of ours the right proportions of food that is required to grow strong bodies?" "Could you place books into their hands that would tend to draw them to the farm instead of away from it?" These questions, courteously asked, soon thinned the ranks of the high-priced applicants; the one chosen from the few remaining was given the preference because of her personality.

There is another school that I personally know. In some respects it is similar to the above. Like it, this school also has one progressive director. You see it requires one set of brains to look after the business of even a neglected country school. Care is taken in this district that only one of this sort is elected. The land is practically owned by a very few—immensely right they are too, and from the few are elected the two men who are "it." We might call the pupils a floating population. They come and go—living in the neglected tenant houses and moving on.

To keep down expenses, these men who will pay $4,000 for an automobile without batting an eye, employed a series of beginners, year after year, because they might be procured at a comparatively low figure. If things got too badly out of joint they would send their own one lonely duckling into town. This order of things continued year after year, when the county superintendent of school called them down. Then, to even things up, they employed an "experienced teacher" at the same price they had been paying beginners and supposed their duty ended.

As might be expected, this woman hated children and apparently was void of any sympathy in her whole nature. She began to reform the situation by engendering the hatred of every pupil, even the tiny tot that is so easily molded was not exempt. That school today regards all teachers as natural born enemies.

What to do about this new state of affairs? These people who come and go are not "tramps," as I heard one man who was meant for broader views say, but fellow creatures who will stay here and grow boys and girls, and these same boys and girls will meet your boys and girls and our boys and girls, and sometime in the no distant future our grandchildren will all have the same blood flowing through their veins. No need to shut our eyes to it, sure as you live it is bound to come. Sometime there will be consolidated schools and that will simplify matters. That is fully a generation away—and is a whole generation of boys and girls to be sacrificed in the meantime?

WHY FARMERS LOSE THEIR MEAT.

To the Editor of The Homestead:

The farmer as a rule kills his hogs on the eve of a cold wave, or on the first indication of a rise in the temperature after a cold spell. Either way is wise so far as butchering is concerned. But when the hurry and worry of that job is over, he either becomes indifferent, or he lacks in discretion in finishing up his work after the hogs are hung, and his neighbor helper has gone home.

He usually leaves them hang until night fall, then with the help of his family, he carries them into the smokehouse, or the kitchen, perhaps, stacks them up from three to four deep.

Now it just depends on the nature of the weather from the time those hogs were dressed until they were taken down whether the farmer will lose, or save his pork, for right here his knowledge, or his discretion seems to end.

The next morning, or if time is precious, he cuts up his meat yet that evening. He throws the lard cuts, sausage trimmings, and leaf lard into a tub; the ribs, back bone, and such like into another, for the women to tend to, while he salts and packs down into a box the sides, shoulders and hams, into which he has taken extra pains to rub the salt; and he goes to bed glad that his day's work is finished so that he can go at something else in the morning. Now, as I said before, it just depends on the weather conditions whether he saves or loses his meat. If he saves it he thinks nothing of it, but if he loses it he curses his ill luck and gives his family, perhaps, the benefit of his ill humor while he wonders audibly why it could not be as good as it was last year.

A dressed hog should hang at the very least twenty-four hours if the weather conditions are favorable meanwhile, not too cold, or too warm, before it is cool enough to salt and pack down. And it is better even under such favorable weather conditions to wait another twelve hour.

The animal heat must be removed to the bone before the salt is applied. And as the natural cooling process is the only one to which the farmer can resort, he must allow sufficient time for it to cool. And to do this properly, and safely he must allow his meat to hang, and hang clear of any thing so that the air may pass all around it, and the animal heat may come to the surface and pass out unhindered, or unobstructed.

If the weather is above freezing point when the hog is dressed, and remains above for twenty-four hours, the cooling process is complete, and it can, without danger of loss, be cut up and salted. But on the other hand, should the temperature run below that point during the aforesaid twenty-four, and should the surface freeze, it should not under any circumstances be touched at the end of twenty-four hours, nor for several hours after it has thawed out entirely. And right there is where the farmer, in his hit or miss way of doing things, misses it by stacking up his frozen hogs within a few hours of killing them. The cooling process is stopped by sudden cold, and when the surface thaws sufficiently for it to resume the process the pieces are in close contact with one another which not only prevents the animal heat from escaping, but throws it back upon itself, and causes the meat to sour at the bone.

Now, on the other hand, if the temperature rises rapidly after the hogs are dressed, allow them to hang outside as late as it is safe, then when taken to a place of safety, by all means hang them up. And should the temperature continue rising, cut your meat up and trim as for salting and packing, but instead hang the pieces up clear of each other, and the wall. Leave it hang, even if the weather is warm enough to wing a bluebottle, it is safe so long as the blood does not come to the surface upon its lean parts. And as it requires several days for this change, your meat is safer thus by far than if you were to hasten the salt and pack process because the weather is alarmingly warm.

The smokehouse should be provided with plenty of iron hooks, suspended from strong cross timbers laid upon the rafter plates. These need not be stationary, and indeed are better not so for convenience in suspending the hogs which should hang clear of each another, as well as the meat.

Country lard is worth two cents more per pound than butchers' or tierce lard, if it is properly rendered. And to do this the rind must be removed, also all lean meat; and the pieces cut as nearly uniform in size as possible, so that they may all be ready for the press together.

Put a quart of cold water to every gallon of fat, and let it have its own time, that is, do not hurry it, but allow it to boil unceasingly until the water is boiled out of it. The fat is then so thoroughly cooked that it is easily speared with a fork.

At this period of the process it requires watching and frequent stirring to the bottom of the kettle as it is inclined to form a sediment on the bottom, and burn.

When the fat is of a light brown color and floats upon the surface it is time to remove it from the fire, and turn it into the press.

The cracklings will prove the success of your effort. If they are brownish gray in color, and fibrous looking in texture, though hanging in a compact peice, your lard will be white and will at the end of eighteen months be sweet and good.

Now if this process of lard making, notwithstanding it is worth from two to three cents more per pound than any other, is too painstaking, let me give you one that is more commonly used:

Cut the fat into chunks of various sizes, removing the rind on the firm pieces only, pay no heed whatever to the lean streaks that run through the best pieces of fat; ignore the blood-shot tissues that fringe the leaf lard, and throw them all into the same vessel, to be gathered up promiscuously, and put into the kettle to cook.

Add enough cold water to keep from sticking to the bottom, and fire up. Let your aim be to "fire up," for the fat will fry furiously, and be ready for the press the sooner. Of course, you have to stir it often to keep it from sticking to the bottom, but no matter. You will soon be through with the stuff.

When you remove your cracklings from the press, what have you? Look and see. The leaf lard is crisp and dark brown; the blood shot fringed ones, black; the lean streaked ones, which through persistent stirring up from the bottom have just escaped burning, while the rind pieces, those which are not still stuck to the bottom of the kettle, are white next to the rind, and show want of greater pressure to remove the lard from the chunks of cracklings. Removed from the press, the pieces fall apart readily. Why? Because the fibrous tissue of the fat has been fried instead of boiled to separate it from the lard.

Look at your lard the next morning. What color is it? About the color of your thorough bred Jersey cow, a smoked cream. A. Le Faivre.

The Housewives' League of New York, which has branches all over the country, threatens to declare a boycott of beef if the prices do not soon come down. Sometime ago they boycotted butter and the price fell soon, and it is thought the boycott will work easier with beef.

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Read extract from letter of T. F. Hagan, Cash. 1st Nat. Bank, Glendive Mont.

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Any farmer who owns machinery that needs sharpening cannot afford to be without it. My man sharpened 218 shoe discs with it in less than a day that would have cost me $14.40 for sharpening at the blacksmith shop."

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which tells an interesting story of this wonderful artificial diamond sharpening substance, gives pointers on tool sharpening and illustrates Luther Farm Tool Grinders. From this book you may choose any outfit on 30 days' trial, without paying for it in advance.

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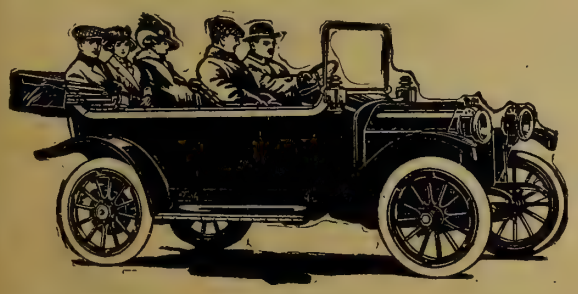

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Herefords in 1912.

By. R. J. Kinzer, Secretary American Hereford Cattle Breeders' Association.

THE past year, from a Hereford standpoint, has been very successful and satisfactory. The breed has made splendid exhibits at the leading shows and fairs of the year. These exhibits have not been confined to a few of the fairs held in the central states, but have extended from New York to California and from Mississippi and Louisiana to Ontario, Canada.

The breed is fast coming into its own in the favorable consideration received from ranchmen, farmers, feeders, packers and consumers. During the past year the demand for breeding stock has been strong from all parts of this country and from several foreign countries. Cattle have been exported during the past year from the United States to Brazil, Uruguay, Central America, Cuba, Honolulu and Canada. It is also a fact worthy of mention that there has not been an importation of Hereford cattle to this country from England for nearly ten years and those most familiar with the cattle in both countries, do not hesitate in saying that the Herefords of the United States are better today than those to be found in England. The Herefords are the only breed that have been bred and developed in America until they are better than the cattle in their native land. This is a most credible thing to be said of the breeders in America.

It is also a fortunate thing for the breed that they have always been free from pedigree and color craze. Hereford breeders have almost universally, in making selections of breeding stock, given first consideration to individual merit, rather than to some particular fad or fancy in breeding. This undoubtedly has done much to place the breed in the enviable position which it holds today.

At eighteen shows and fairs of the past year, where competition in the steer classes was open to all breeds, Herefords have been awarded the grand championship of these classes. The following is the name of the show, its location and the name of the exhibitor of the champion steer at each show:

National Western Stock Show, Denver, Colo.; C. A. Tow, Norway, Iowa.
National Feeders' and Breeders' Show, Fort Worth, Texas; C. M. Largent, Merkel, Texas.
Pacific Northwest Live Stock Show, Portland, Ore.; University of Idaho, Moscow, Idaho.
Iowa State Fair, Des Moines, Iowa; Robt. H. Hazlett, Eldorado, Kan.
Indiana State Fair, Indianapolis, Ind.; J. H. & J. W. Van Natta, La Fayette, Ind.
Interstate Fair, Sioux City, Iowa; C. A. Tow, Norway, Iowa.
Oklahoma State Fair, Oklahoma City, Okla.; Robt. H. Hazlett, Eldorado, Kan.
Missouri State Fair, Sedalia, Mo.; University of Missouri, Columbia, Mo.
Colorado State Fair, Denver, Colo.; A. L. Weston, Golden, Colo.
Mississippi State Fair, Jackson, Miss.; W. J. Davis & Son, Jackson, Miss.
Louisiana State Fair, Shreveport, La.; C. M. Largent, Merkel, Tex.
Michigan State Fair, Detroit, Mich.; J. H. & J. W. Van Natta, La Fayette, Ind.
Montana State Fair, Helena, Mont.; A. B. Cook, Helena, Mont.
California State Fair, Sacramento, Cal.; A. B. Cook, Helena, Mont.
Texas State Fair, Dallas, Tex.; C. M. Largent, Merkle, Tex.
Northwest Live Stock Show, Lewiston, Idaho; Jones Land & Cattle Co., Wisdom, Mont.
Interstate Fair, Spokane, Wash.; A. B. Cook, Helena, Mont.
Utah State Fair, Salt Lake City, Utah; Geo. Chandler, Baker City, Ore.

In addition to this remarkable record, the grand championships have been awarded to Hereford car loads of fat steers, where competition was open to all breeds, at the Denver Show on a car of Hereford steers exhibited by Clayton, Murnam & Saunders; at Fort Worth, to J. W. Cook & Son of Beeville, Texas on a load of Herefords to their own breeding at Portland, to E. W. Coles on a load of Hereford steers bred by George Chandler of Baker City, Oregon; at the American Royal Show, to Geo. W. Wertz, of Alma, Neb.; at Toronto, Canada, the champion car load was awarded to Simon Downie & Son of Carstairs, Alta., Canada; at the Denver Show last January, the champion load of feeders was a load of Hereford yearlings owned by Monte Blevins and sold for $8.00 per hundred at the close of the show to Peter Hopley & Son of Lewis, Iowa, who fed them out during the summer and sold them during the recent International Show for $12.30 per hundred. They had made an average daily gain from the weights in Denver to the weights in Chicago of practically two pounds per day. At the American Royal Show, the champion load of feeders was Herefords exhibited by Washington & McDonald of Manhattan, Kansas and at the recent International Show, the well-known Matador Hereford steers were awarded the grand championship in the feeder division.

Jesse Engle & Son of Sheridan, Mo. won the championship carcass at Denver with a yearling Hereford steer. At Fort Worth in March, Lee Bros. of San Angelo, Texas won championship on a Hereford steer that dressed a higher per cent than the grand champion steer of the previous International Show. The grand champion steer of the Portland Show in March sold at auction for $1.20 per pound live weight, this being the second highest price ever paid for a steer on foot. The grand champion steer of the Northwest Live Stock Show held at Lewiston, Idaho sold for $1.05 per pound, being the third highest price ever paid for a steer.

The public sales of the past year have been most satisfactory. 931 heads of Herefords have been sold at an average price of $182.58 per head. Of this number, 419 were bulls which averaged $216.29 and 512 were cows, averaging $154.80. Association sales during the past year averaged as follows:

Denver	$182.00
American Royal	307.00
International	325.00

At nearly all of the leading fairs, the breeding classes have been well filled with uniformly good individuals. The absence of inferior entries in the Hereford classes has been a subject of general comment during the entire show season.

The future is exceptionally bright for the Hereford breeders. The high price of beef, the strong demand for breeding cattle at home and abroad, together with the growing popularity of the breed, is sure to materially advance the price of good pure-bred Hereford cattle far beyond where it is today.

EXCELLENT BOOK ON GASOLINE ENGINES.

A book of 700 pages with500 illustrations under the title "The Gasoline Engine on the Farm" has just come from the press. The author, Victor W. Page, designed this book for the workman of the farm, that is the man who is called upon to operate the great modern labor saver, the gasoline engine. He has avoided technical statements of law and philosophy and has used the simplest kind of language that will convey his meaning intelligently. Some idea of the scope of the work may be obtained from the chapter headings. These include: The Call and the Answer; The Internal Combustion Engine; The Combustion Chamber; The Piston and Its Auxiliary Parts; The port andVavle System; The Carburetor The Ignition System; A Chapter on Engine-speed Regulation; The Crank Shaft and Its Bearings; Setting the Engine; The Fuel Supply; Lubrication; Elimination of Engine Troubles; Selecting and operaing the Engine; The Traction Engine; What Is Best in a Tractor; Power Transmission; The Feed Room; The Workshop; The Farm Wood Pile; Orchard and Garden; Irrigation; The Woman's Story; Homemade Conveniences; Modern Power Applications; The Ideal Farm and Useful Rules and Formulae.

Arrangements have been made so that this paper can supply its readers promptly with this volume, the regular publisher's price being $2.50. It is a book that ought to be in the library of every man who owns a gasoline engine of any description.

When Hog Cholera Rages It's a Fine Thing to Know YOUR Hogs Are Safe

E. Myers, President, E. Myers Lye Company

Next time you read in your paper about an epidemic of hog cholera, how it is killing off hogs like flies and causing the loss of thousands and thousands of dollars, and you are beginning to wonder where it's going to break out next, just remember this: You can assure the safety of **your** hogs by taking this inexpensive precaution—go to your dealer and get a few cans of

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Mix it with the hog's feed or drinking water according to the directions printed on the label and feed it **twice every day. This treatment has prevented hogs from catching cholera, even though raging right in the neighborhood.** It has been **proved** time and time again. Here is just one example among hundreds of similiar ones:

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There Are No Substitues

Don't experiment with an old-fashioned, ordinary lye. Get MERRY WAR POWDERED LYE—the **time-tried** remedy—the specially prepared lye that is **safe** to feed to hogs—that actual **experience** has **proved** to be the **safest, most dependable preventive** of hog cholera the world has ever known. **Insist** on the genuine and **refuse substitutes.**

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At the price of **5c per month, per hog** you insure against sickness and greatly increase the size of your hogs.

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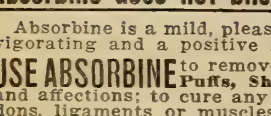

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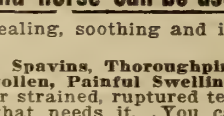

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FREE With each book we also send free a beautiful colored picture of Queen--oil painting effect--suitable for framing.

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

GARGET.

One quarter of cow's udder becomes swollen and feverish. During the time it is swollen and has fever cow does not eat; if any, very little. Also the milk comes in chunks and thick. Will last from three to five days. After the fever and swelling have gone cow gives very little milk out of affected quarter, sometimes none. Last winter I had three cows affected. One lost two quarters for the season. At this writing have two cows affected, one with rear quarter and one with front quarter. Appears to hurt her very much. The one cow is the one that lost two quarters last winter. The other is a young cow with second calf, and has been giving five gallons of milk per day. Feed, ensilage, fodder, crushed ear corn mixed with oats. Ensilage is fed morning and evening in the stable. Fodder is fed out in the yard about midday. This is the second season that I have been feeding ensilage. Never noticed this trouble until I began feeding ensilage last year. Is it possible to feed too much ensilage?

Garget of the character present in your herd is a contagious disease due to germs which are present in and on the udder and on stall floors and are carried by means of the milker's hands. If every dairyman would instantly isolate any cow that shows the slightest signs of udder trouble and keep her apart from other cows until perfectly recovered, garget would be far less common than it is at the present time. This should be made a general rule in dairying. Cleanse, disinfect and whitewash the cow stable including ceilings, walls and floors. Treat a case such as you describe by administering at the outset of the attack one pound of epsom salts with half an ounce of ground ginger root and a cupful of black strap molasses in three pints of warm water as one dose. Follow with half an ounce each of saltpeter and fluid extract of poke root twice daily in water until the aggravated symptoms subside. Foment the udder three times a day with hot water and strip milk or other fluid away three or four times a day. At night rub the udder thoroughly with camphophenique.

LAME SHEEP.

Have some sheep that are lame and have been lame about a year. Have treated them with carbolic acid. I think it is foot rot.

Separate the lame from the unaffected sheep and keep all the sheep out of mud, slush, filth or gritty matters until lameness subsides. Treatment of foot rot consists in cleansing the foot, cutting away every bit of rotten, diseased, or under-run horn of hoof, then immersing the foot for a few moments in a saturated solution of sulphate of copper used as hot as the hand will bear. Afterward turn the treated sheep into a pen on the floor of which slaked lime has been spread two or three inches deep. Repeat the treatment as often as found necessary.

WORMS.

Please tell me what to do to rid a thirteen-year-old horse of worms and also a pony seven months old.

As often stated here, a good mixture for destruction of worms is made by mixing together two parts of salt and one part each of sulphur and dried sulphate of iron. The dose for an adult horse is one tablespoonful in the feed night and morning for a week; then skip ten days and repeat. Colts take less doses according to age and size.

SORE SHOULDERS.

About a year ago one of our horses had a sore shoulder and we had a core removed from it and it healed up, but as soon as we began working her the shoulder became sore again. Is there a collar that will protect her shoulders? We use her at farm work.

To prevent sore necks from the rubbing of the collar it is important to keep the harness clean and dry and have it fit properly. Possibly your horse may do better if worked in a strong breast collar instead of a neck collar, or a "humane" collar may be tried. Use a mixture of two ounces of tincture of iodine and six ounces of extract of witch-hazel as an application once daily to parts that are irritated by the collar.

CURES LAME HORSES

While They Work

Without Leaving a Scar or Loss of Hair.

Mack's $1000 SPAVIN REMEDY

The Only Spavin Remedy in the World Sold Under a $1000 Bond.

FOR SPAVIN, RINGBONE, THOROUGHPIN, CURB, CAPPED HOCK, SHOE BOIL, SPRUNG KNEE, LACERATED AND RUPTURED TENDONS, SWEENY, ETC., it is **unsurpassed, frequently imitated, but not equalled.**

OUR FAITH is such that we can afford to **GUARANTEE MACK'S THOUSAND DOLLAR SPAVIN REMEDY** and furnish with every bottle a **$1000 WARRANTY BOND,** which insures to you the return of your money if the **results from its use are not entirely satisfactory,** and if **it does not overcome** all forms of **lameness,** from whatever cause.

Your Remedy Is a Wonder

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Yours very truly,
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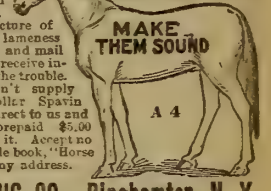
Per Jos. G. Meyer, Supt.

FREE Veterinary Advice

We have associated with us a Graduate Veterinarian to answer all questions regarding lameness in horses, free of charge. Mark a cross on picture of horse showing where lameness is located and cut out and mail same to us. You will receive instructions how to cure the trouble. If your druggist can't supply Mack's Thousand Dollar Spavin Remedy remit price direct to us and we will send at once, prepaid $5.00 per bottle—and worth it. Accept no substitute. Our valuable book, "Horse Sense," sent free to any address.



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Worms and Bots

You can remove every one of them. We guarantee to kill and bring from the body, dead, in from 18 to 24 hours, all pin worms and bots, with the safe and sure remedy.

NEWVERMIFUGE

Absolutely harmless. Can be given to mares in foal before the eighth month. Horse owners write us that Newvermifuge has removed from 500 to 800 bots and worms from a single horse. An animal that is wormy can't help but be ugly and thin. If your horses are troubled with worms send us your order today.

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If Your Horse Has Eye Troubles Use "VISIO"

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"Visio" will convince any horse owner that it will absolutely cure defects of the eye, irrespective of length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "Visio" under our *guarantee* to refund money if it does not cure.

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Saving Feed and Horseflesh.

By M. Coverdell.

MOST farmers do not consider that it requires any special skill to manage the keeping of horses through the winter months, and as a result, many costly mistakes are made—errors which, if corrected with proper care and feeding systems, would net a wonderful saving in feed and horseflesh. We hear much these days about letting the horses follow their natural instinct (or whatever they may call it), and range out doors during the winter, choosing shelter only from the most severe or blustery weather, and while this is acceptable in a certain measure, it is hardly practical in all cases, as some of the animals would not seek shelter from the most severe weather we have during the whole winter.

The above-mentioned method of handling horses in winter is not at all in keeping with modern conditions, as we have developed different strains of horses which, while strong and vigorous, cannot adapt themselves to such treatment. They do not demand pampering and close housing, but they do require ample shelter from severely cold or stormy weather.

The kind of shelter furnished the horses will depend much upon various conditions. Horses that are in harness or saddle considerable of the time during the day, must be given snug, comfortable quarters at night. We make this an imperative rule, since heavy hauling or exercise through the day, then exposure of the animals at night, would be sure to have a most deteriorating effect on their entire systems. Stock horses, we will admit, should be ranged most of the time in winter, but even these we keep an eye on, and if we think occasion demands it, they are given shelter. There are times when it is the height of foolhardiness to even think of any animal on the farm being left out and exposed to the elements. Colts we believe in being furnished with the best of shelter every night.

By shelter is meant stalls, except for the stock herd. Individual box stalls are best for both colts and grown animals, as they are easier to keep clean, and the horses are not always kicking or biting one another. No horse likes to lie down in his own filth; so all stalls should be kept cleaned out, and well bedded at night with clean, dry straw, which not only promotes better health for the horse, but saves much brushing and currying, besides avoiding the hard task of digging packed manure from the stalls in the spring.

While stalls should be so arranged that they will have light and ample ventilation overhead and in front of them, the stall proper must be snug and warm; no wind coming from the rear. The horse that stands tied in the stall is too inactive for the sifting winds to steal in at cracks around him and chill his body. He is much more pervious to the action of cold air than the horse that is out in the open, where he can shift about and keep up a good circulation. Plug up the knot holes and cracks around the stalls, thus insuring the horses' comfort, and making it unnecessary to supply them with so much feed to keep up body heat and maintain normal flesh.

Proper care of the horses in winter is another point that returns big dividends, since it saves feed and keeps the animals in better condition. Horses that are worked or driven only at intervals should be handled in a manner not to cause overexertion, as stiffness, lameness and even some permanent ailment is apt to result from abuse in this connection.

Any horse that becomes heated will require careful handling while he is cooling off, or colds and more serious kindred diseases often follow a sudden drop in the temperature of his body. In no case should the heated horse be allowed to stand in the open air while cooling off; nor in a draft. Blanket him and stand him in a snug stall for an hour, giving him a very scant supply of hay to nibble at. After an hour, he may have a gallon of water, with the chill removed; then a generous quantity of hay. In a couple of hours he may drink his fill of water, at about the temperature of well water, when he may be given a regular feed of hay, followed in a half hour with his grain ration. Unblanket him then, rub him down well with an old sack or some clean hay, curry and brush him, and in ninety-nine out of every 100 cases, no evil results will follow.

It should be borne in mind that all horses must have open-air exercise every day when the weather will permit, especially those which are accustomed to working a goodly portion of the time, as a day off, standing in the stall, is a change that does not agree with them. Even the stallion should have a paddock in which to exercise; the brood mares and colts a lot of ample size to move about in and enjoy their sun bath every day. Aside from the beneficial effect exercise wields in keeping the digestive and assimilative organs of horses in first-class working order, close confinement in the stalls, especially on board or cement floors, encourages various ailments of the hoofs and among the joints and ligaments of the legs. Even where the weather is extremely cold or blustery, a half hour in the open air will prove beneficial to any horse except those that are in an exceptionally delicate or run-down condition.

Following along certain lines in feeding horses is just as essential and profitable as that of furnishing the cows with those rations conducive to dairy profits. It is more than a waste of feed to give an idle horse as much hay and grain as the work horse, as his body does not require such an amount, and the overloading of his stomach is a detriment to his digestive system.

Likewise, when the workers have a few days off, it is advisable to cut their roughage ration down about one-third and their grain one-half, increasing them to the regular amounts when the animals are again put in harness. Cleanliness and variety of rations for the horses during the winter months plays an important part in their good health, vigor and general condition. Musty or moldy hay, dry, woody, coarse and fibrous roughage of all sorts, are to be avoided in feeding horses, especially the colts, stallion and brood mares. These last in no case should be fed on such roughage.

Where it seems absolutely necessary to feed a certain percentage of musty hay, it should be dampened with water before feeding, to avoid part of the detrimental effect. However, in most cases it will pay the farmer to sell off his second or third-grade roughage at even a low price, and invest the money in first-class feed. Clover, alfalfa and oats hay, mowed as the grain was turning from "milk" to "dough," form excellent roughage for the horses. If clear timothy is at hand, it may be made one-half the feed, along with any one of the above-named hays, but is not always suited to feeding horses as a single roughage.

In feeding brood mares and colts too much heating corn is to be guarded against. They will of course require a certain amount of it to keep up body heat and maintain normal flesh, but in the main, they should be given those grains and mill feeds that will keep them in good appetites, promote ideal digestion, insure good health, and nourish bone and muscular tissue, rather than form fat. Equal parts oats, bran or shorts, and corn chop, form an excellent ration for horses, a couple of handfuls of oil meal being added twice or three times a week, to serve as a laxative for the bowels. Oats may seem prohibitive in price, but for brood mares and colts, we consider that they have no substitute, and should form a part of their daily rations. For horses that are worked or driven considerably, a ration of one-half corn chop and ear corn, the balance being oats and bran, is more strengthening, and no harmful effects are apt to be felt in feeding it. Salt being an excellent appetizer, tonic, conditioner, and of great importance in the processes of digestion and assimilation, should be kept where the horses can reach it at all times.

We mention the currying of horses separately from the other items of care, as it is a point which, while advocated by many, is thoroughly understood by a very few, and not only contributes to the good health of the animals, but is sure means of economizing in feed. A man in a certain branch of the government service, where horses are used in such a manner as to require an extra amount of currying, told the writer that he considered the point of thorough currying as a saving of one-third the feed bill; then added that he believed it would save one-half of it.

Of course, giving the horses a neater and cleaner appearance is one cause for some people currying the animals well, and this, together with the fact that it makes the horses feel better, is sufficient reason for the pains so taken; yet, there is another distinct and separate reason from these, and one which actually adds dollars to the worth of the horse and to the feeder's pocket by economizing in feed.

Coming down to the real point: As a rule, horses are not as active in winter as they are in summer; their skins do not become warm, expand and the pores open up, except in cases of profuse sweating (which are very rare, and even dangerous). This leaves the surface of their skins somewhat dry, scaly, and compact; so that many impurities of the body which were thrown off by sweating in the summer are left in the body during the winter months.

What must be the effect of confining this foul refuse in the horses' bodies? Again, because of this same condition of the skin, the filth and dust that settle on the animals' hair and body are not worked off by perspiration as they would be in summer. This accounts for the hair of the horses standing on end and appearing to be a veritable bed of dust, which rolls forth a diminutive cloud every time one slaps the animals on any part of their bodies.

Currying and brushing loosen these scales of the skin, open the pores and invigorate the nerves which nourish the skin, so that the combined effects remove all impurities. In this healthy condition, is it not safe to assume that the horses will require less feed, and at the same time possess greater vigor? We see many horses with tails scuffed up at the roots, thin and short. Thorough currying, from one end to the other, and straightening out the hairs, would transform these unsightly tails into long, silky, flowing ones that would be an ornament to any horse. The same is true of the mane. The neck directly under the flowing part of the mane rarely ever is touched by comb or brush, nor are the roots of the mane brushed and enlivened as they should be. Given proper attention in this respect, the mane will become what it was intended to be—an ornament without which the horse's forequarters would depreciate 99 per cent in general appearance.

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For New Deere Sulkies and Gangs

"Q-D"—means quick detachable Also quick attachable. You take the share off by removing one nut. Put it back and fasten it by replacing and tightening nut.

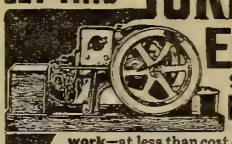
And this one nut is in a handy place—just glance at above picture. Could anything be easier? It "stays put" too. Locking lug on landside holds share perfectly tight and rigid.

Our book, mailed free, tells all about this new improvement in plows. Write for free "Q-D" Book No. Q-D 27

John Deere Plow Co., Moline, Ill.

JOHN DEERE MOLINE, ILL. THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

LET THIS SURPRISING ENGINE SOLVE YOUR HELP PROBLEM



Does several men's work—at less than cost of a boy. Surprising, the amount of farm "drudgery" this marvelous little engine will get away with. Separates cream, grinds feed, cuts ensilage, saws wood, shells corn, waters stock, washes buggy—the family clothes—almost anything you want. Handy, practical, easy to operate—a quick starter and steady runner—excess power above rating—convenient, too—with trucks, located anywhere. Fuel—gasoline, kerosene, distillate or gas.

THE T&M Farm Engine

is a REAL ENGINE—sold at far too low a price, considering quality—backed by the nearly 18 years' practical engine experience of a reliable firm—sold on a REAL GUARANTEE, gilt-edge to you and iron-clad to us. Don't struggle with the "hired man problem" this season—when the T & M will attend to it for you. LET US SHOW YOU how this "everlasting," reliable engine (1½ to 20 h.p.) will deliver you more power and greater value in every respect than you pay for. Spring work is coming—write, NOW, for catalog and prices.

Termaat & Monahan Co. 13 River St. Oshkosh, Wis

Honest Tanning and a Square Deal

My system of hide insurance makes your hide safe. Cownie's free policy protects your hide against fire, flood, theft, exchange or poor workmanship. A good job guaranteed.

COWNIE

Saves You 50%

Send me your hide and let me make you a handsome, durable coat or robe. My numbering system makes exchange of hides impossible.

Send for Sample Certificate and new catalog free. Contains styles and prices; also full particulars of insurance plan.

COWNIE TANNING CO., 508 Market St., Des Moines, Ia.

HIDES TANNED

By the World's Best Tanner and made into fur coat or robe for yourself, wife, son or daughter. Select a distinct style from our Free Style Sheet, 18x24, of 20 designs. New idea in tanning. We are the only tanners offering style in furs. Write now.

GLOBE TANNING & MFG. CO.,

220 E. 1st St., Des Moines, Iowa

GALLOWAY'S
Own True Story
Special To the Readers of This Paper

EVERYBODY likes a good story. If it is a true story, so much the better, for it is said that "truth is stranger than fiction". The Romance of American Business is filled with many interesting chapters—but none more fascinating than the wonderful results achieved by the Farmers of this country in transforming a cornfield on the edge of Waterloo, Iowa, into a vast, modern hive of industry giving employment to hundreds of skilled workmen and turning out tens of thousands of Engines, Cream Separators and Manure Spreaders in a constantly increasing stream.

The story of the rapid rise of William Galloway from a Farmer's Boy to the World's Greatest Manufacturer of Farm Implements selling direct from factory to farm is one of those thrilling fact-stories that grip the interest and tingle the nerves of every red-blooded American. To achieve what he has done in a few short years would have been impossible without the active co-operation of his Farmer Friends. In his own true story, told below, William Galloway frankly admits that all he has today he owes to his Fellow Farmers. Every Farmer in the land—and every Farmers' Boy—should read the remarkable true story told below by America's Famous Farmer-Manufacturer—whose career has proved another demonstration of the fact that

BY WILLIAM GALLOWAY
President WM. GALLOWAY CO.

"Truth Is Stranger Than Fiction"

I am going to tell the true story of how I happened to start this business.

As a rule, the beginning of all big things *is* small. And the growth of this great industry at Waterloo, with over 125,000 customers buying $3,000,000 a year from us, is no exception to the rule.

Sixteen years ago I was a farmer's boy on my father's farm (where I was born) near Berlin, Iowa. My parents still live on the old home place. There were four boys and four girls in the family.

My first job on the farm was to help milk the cows and teach the calves to drink skim-milk out of a pail. I was taught to do this job, and do it right—as my father was very strict with us boys. It was work! work! work!—early and late.

My early training on the farm then seemed very rigorous, and sometimes a real hardship—but I can look back to it now and realize the great blessings of health, practical knowledge of farm conditions and self-development in character it brought me.

Now I operate two big farms—nearly 2,000 acres in Canada and an up-to-date business dairy farm just on the edge of Waterloo. The experience I gained as a boy helps me to this day.

My First Start in Business

One day I picked up a farm journal (it was The Iowa Homestead) and saw an advertisement asking for agents to sell windmill springs. I answered the ad.

This was the starting point of my business career.

It was really the first step.

I made a deal with this concern and went out and sold hundreds of windmill springs, traveling from house to house with a horse that I traded for and an old buggy that cost me $12.50.

I found out in this experience that 99 farmers out of every 100 are square and honest, and I have to thank many of them for their friendly treatment in those early days when they gave me the "glad hand", a good meal and place to sleep.

It was this feeling of gratitude to my farmer friends that prompted me last year to build the splendid $60,000 Agricultural Club at Waterloo and dedicate it to the farmers of America, their wives and families.

Getting the Inside Facts

One day I met an implement dealer who wanted me to work for him by the month, which position I accepted; the first thing he did was to call me into the private office and in the strictest of confidence tell me the cost or wholesale prices of the goods, also the selling prices.

This firm which I represented soon branched out into the wholesale business, selling wagons, buggies and other implements in Eastern Iowa. I was again confidentially advised of the cost prices, only this time it was a few notches lower, as this firm was now a jobber. I was then sent out as traveling salesman, going from town to town selling implements to dealers, only this time at wholesale prices.

My Eyes Are Opened

Now right here was where I really awoke to the true situation of the farmer compelled to pay exorbitant prices on account of the middlemen between him and the factory which actually produced the goods.

It set me thinking—hard! I said to myself, "Wouldn't it be a grand thing for the farmer if he could only buy engines, manure spreaders, cream separators, harrow carts, etc., at wholesale prices or even less?"

That bee stung me good and hard. The idea wouldn't down, but kept buzzing in my head. And I made up my mind that sooner or later I would find a way to become a Farmers' Manufacturer, selling direct from factory-to-farm at one small profit.

In the course of two years I went into partnership with the firm I traveled for, and then after a year and a half I purchased the interest of my partner and took the management of the business myself. This was the third step. I then commenced to manufacture harrow carts. I had made one of my own on the farm and believed they would sell.

I used to sell this harrow cart to dealers for $8.00—not as good as the one I sell to farmers today for $5.05.

I Begin to Sell Direct

Well, it wasn't long before I made up my mind to sell direct and in spite of much opposition and prediction of failure I took the vital step that has meant so much to the farmers of this country.

While at first my progress seemed slow, yet from that day to this it has been sure and steadily upward. I added other articles—Engines, Cream Separators, Manure Spreaders, etc.—all made in my factory and sold on the same direct-to-farm plan.

The business grew, for the farmers were with me. Orders rolled in with a sweep from thousands of farms.

Today, in a little over seven years' direct selling, the Galloway Chain of Factories cover acres of ground, employing hundreds of men, turning out thousands of machines and implements and selling better goods direct to the farmers than I used to sell to dealers in carload lots for spot cash.

A Vast $3,000,000 Business

Over 125,000 satisfied customers last year bought $3,000,000 worth of goods from this company. And the business is growing by leaps and bounds.

Today farmers not only buy machines and implements from us, but come to us for their general merchandise as well—we save them money on furniture, incubators, roofing, clothing, sewing machines and practically everything for home, farm and personal use.

Our slogan, **"The Only Way Is the Galloway—from Factory to Farm"**—is endorsed by the great body of farmers everywhere, who know that the only safe, right and truly economical way is direct dealing with the concern that backs its goods with a $25,000 Cash Bond that is a legal guarantee of absolute satisfaction.

FREE For Your Name and Address

Write Now for This Big 144-Page General Merchandise Catalog

Big bargains in everything for farm and home sold direct by Galloway at money-saving prices. Write for this Book—it is Free to every home.

Galloway Rocker Bargain

$3.50 This splendid big hard wood rocker is a specimen of Galloway furniture values. Golden gloss finish. Full spring seat—a rocker every home needs. Sold under money-back guarantee.

60-Egg Incubator

$4.75

Think of it! Only $4.75 for an incubator like this. Double Walls, Copper Tank. Guaranteed to hatch every fertile egg when handled right. Best in the world for beginners. Simple, easy to operate. Write for full description in free 144-page book.

Galloway Hand and Power Washer

$15 Sold by Galloway on 30 days' Free Trial. Guaranteed unequaled for any kind of work. Either hand or power machines. Light running, strong, durable—a wonderful bargain at only $15. Write today.

Galloway Grand Sewing Machine

$21.25

Completely equipped, extremely handsome machine. Easy, quiet runner; makes perfect stitch. Worth double my price.

Galloway Roofing Guaranteed 15 Years

Absolutely best roofing possible to make. Spark, cinders, sun, water, frost and acid-proof; nails and cement free. We sell roofing, backed by Galloway Guarantee, as low as 95c per square of 108 feet.

Galloway Supreme Kitchen Cabinet

$7.98 This is a real beauty! A useful and handsome addition to any home. Saves time, work and worry. Would cost you at least $12 at your dealer's—our bargain price is only $7.98. Get full description.

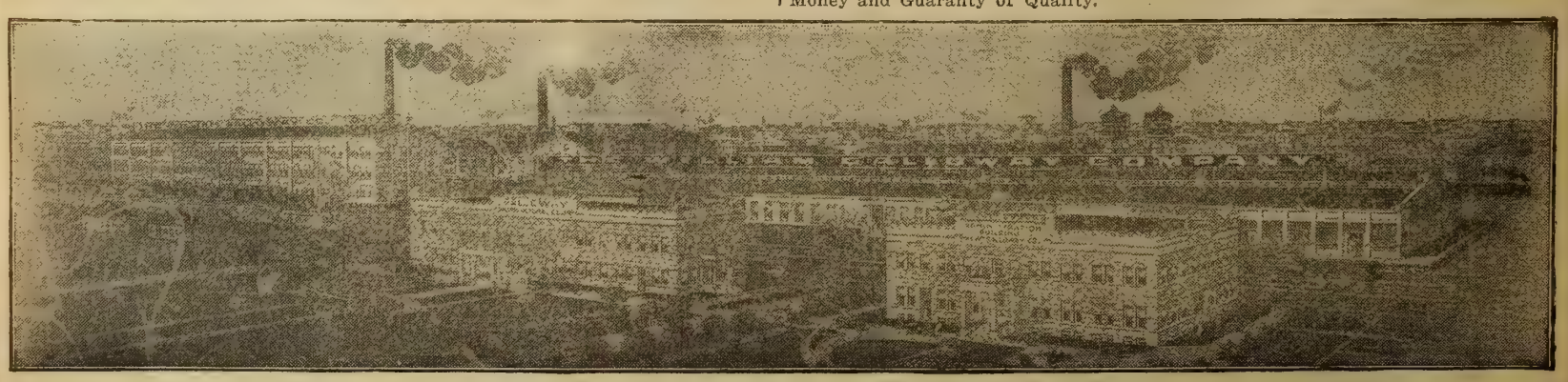
Now Read Every Word on the Page Opposite

$25,000 GUARANTY BOND

Every product of the Wm. Galloway Co. is built on honor and sold direct from Factory to Farm. We guarantee every article in our Catalogs to be exactly as represented or we will return your purchase money and pay freight both ways. As a protection to those who may desire to purchase from us, we have given the Blackhawk National Bank of Waterloo, a legally executed bond in the sum of $25,000, solely for the protection o four customers and to give them every assurance in our power that we will give them a square deal. We invite every reader of this paper to send for a free copy of this $25,000 Guaranty Bond. Send for it today—NOW!

$5,000 CHALLENGE OFFER

I, William Galloway, as President of the Wm. Galloway Co., will pay $5,000 in gold to anyone who will disprove any of the following claims: (1) The Wm. Galloway Co. is not owned, cotrolled or in any way dictated to by any Catalog House or Trust. (2) The crank shafts of all Galloway Engines are made from finest steel—never from cast iron. (3) All Galloway Engines, Manure Spreaders and Cream Separators are made in my own factories fro mhighest-grade materials by best skilled workmen and improved machinery. (4) The illustration below is a true picture of the Galloway factories, offices, Agricultural Club, etc. (5) The Wm. Galloway Co. carries out in good faith every offer made regarding Free Trial Tests; Refund of Money and Guaranty of Quality.



I WANT 1,000,000 FARMERS TO WRITE ME

Is *Your* Name On Galloway's List?

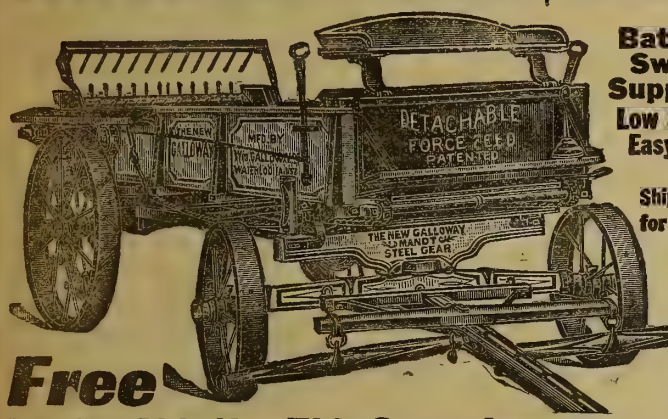
Have you ever written Bill Galloway? Do you know what it means to do business on my plan? If not, I want to know you as I know over 500,000 farmers who have either written or visited me here at Waterloo. This big, double page announcement is meant for you farmers who are holding back from Galloway—you who for any reason have never yet come up to the point of writing me. I ask you to do it now—a personal favor to me, if you want to put it that way. Is it asking too much? Will you oblige me?

In view of what I have tried to do for American farmers—the money, time and trouble I have actually saved them on my Direct-from-Factory-to-Farm-Plan—I ask you, as man to man, am I unreasonable in saying, "Write to me, or at least send me your name, so that I can write to you?"

You must have seen my announcements in the Farm Papers for many years past. Yet, no matter how much you have read about the Galloway Business, you will never really realize the truth about its wonderful benefits until you get the whole story—all the facts, figures, evidence and proof from customers, etc., that I will gladly send you—**FREE**—the very moment you say: "Galloway, do it."

No matter how you feel about me—no matter what your present needs may be—just let me send you my Special 1913 Offers, anyway. Look them over. Compare them with all others. Get posted. Be ready to save money when the time comes. Get my valuable free books—my Engine, Spreader and Separator Catalogs—the famous "Streak of Gold" book that has created the big sensation—"Evidence"—"Proof of the Pudding"—my new, fascinating "Cow Book"—any or all of the books shown below are yours—FREE—for the asking. Just check off the books you want and mail the FREE coupon NOW—at once.

Save $25.00 to $50.00 | **Save $21.25 to $45.00** | **Save $50 to $300.00**



Bath-in-Oil Swinging Supply Tank
Low Down and Easy to Turn

Shipped Anywhere for 90 Days' Trial

FREE for You to Test on Your Farm

Equal to Any Separator At Double the Price
Good for 15 Years of Steady Hard Service

1¾ to 15 H. P.

Free Let Me Ship You This Spreader Absolutely FREE—No Money Down—No, Not One Cent!

When I say "FREE" I mean it! This 1913 Galloway Spreader is so nearly 100% perfect that I am going to ship it right out without any strings to my offer. No money down—no bank deposit—no mortgage, lease, note or even a promise to buy it. Believe me, this is absolutely the limit—the lid's off—I challenge anyone to match this record-smashing spreader offer.

Test It FREE—at My Risk

I'll ship you the spreader absolutely free. Then you do this—with your money in your own pocket:

Test it out as you wouldn't think of testing any other spreader in the world. Pile on the manure a foot and a half above the box. Put on all she'll hold. Take the fine, powdered stuff or the toughest, heaviest, tramped-down, slough-hay kind from the calf yard. If it's frozen, so much the better. **Take it into your field, whip your team to a gallop and slam it in gear.** A test no other manufacturer dares even suggest to you. But do you think for a minute I'd ship you a spreader and let you abuse it that way if I didn't know it would make good?

11 Special Patented Features

40,000 farmers have proved the Galloway Spreader. They know that the 11 exclusive patented improvements make it the world's best; double drive chains furnishing power from both wheels alike direct to the beater and moving the load. The only endless apron force feed, roller bearing feed spreader built. Makes the Galloway worth $25.00 more than any other spreader sold today. Low down—easy to load—light draft—two horses will handle it easily. Pull between wheels entirely on the reach—and many other special features. I can't tell them all—get my catalog before you buy any other make or style of spreader.

"Streak of Gold"—FREE

The only book of its kind—chock-full from cover to cover with facts, figures, experience and valuable suggestions about fertilizing the soil, that every farmer should know. A book easily worth $100.00 to any business farmer. Tells how to handle manure, how to treat it, keep it and use it in a way to cash in fully on its wonderful value. Regular price of "A Streak of Gold" is $1.00. Free to you when you write for my Special 1913 Free Spreader Offer and Big Free Spreader Catalog. Write today!

The Galloway Bath-in-Oil Cream Separator Sets the Pace

I defy the world to match my Bath-in-Oil Separator for cleanliness, close skimming and easy running qualities. Here is the machine that has stood years of difficult tests—the separator that has been subjected to more severe and exacting tests than were ever asked of any other at any price. I tell you it's a sure winner—the best ever produced by human ingenuity. The more you learn about others, the more you will want the Galloway Bath-in-Oil.

Money Can't Buy Better

Pay twice my price if you will—you can't get more real, genuine separator value than this wonderful Galloway Bath-in-Oil gives you. Endless tests failed to detect enough butter-fat left in the "skim" to be put into figures. No machine at double the price will outlast the Galloway Bath-in-Oil. I know just how good it is, and I prove my faith in it by

My 90-Day Free Trial Offer

I will let the Galloway Bath-in-Oil speak for itself. For 90 days I will let one run on your place under the severest practical tests in competion with all others. This test is free—it will not cost you a penny—Galloway takes all possible risk. If you are not positively convinced that my machine sweeps away all competition on every point, return it to me and I will pay freight both ways. If you are enthusiastic in its praises—after 90 days' real test—say so and I will name you a price and liberal terms that will surprise and delight you. Don't fail to write me now for Catalog and Special Proposition. Do it t day—NOW!

Use My New Engine for 90 Days—FREE

I not only make the best engine, but I also make the best engine offer for 1913. You can have your pick out of my big Engine Catalog—any size from 1¾ to 15 H. P.—shipped right out to your farm ready to work; just set her up, turn on the gasolene and oil, throw on the switch, give the flywheel a turn and the **"Galloway"** is ready and eager to "show you" against any engine—at any price—on earth.

It Must Sell Itself

Galloway has only one Engine Salesman—the Engine itself. What it does for you on your farm is my only argument. Talk is cheap—big claims are easy—results alone count! Test the **"Galloway"**. Keep it working every day. Watch it carefully. Compare its power—reliability—simplicity—ease of operation—economy—with any other, and let the test be the proof. Try the Galloway Engine at my risk, 30-60-90 days, if necessary, to prove, then, if satisfied, keep it and I'll make you a special, low 1913 Factory-to-Farm price that will save you $50 to $300 real money. If my engine doesn't sell itself on this plan, just tell me, and I will take it back without a quibble or cross word, pay freight both ways—you'll not be out a penny, and you will actually have **one, two or three months' power FREE**—as a present from Galloway.

Make the Other Fellow Meet Me

Use your own common sense. Figure for your own pocketbook. If anybody offers to sell you an engine, ask him if he will meet Galloway's actual farm test. Make him say that he will run his engine against mine and let the best one win. If he won't do it, if he balks and wants to talk "hot air" instead of "cold facts," he's not the man to deal with, and you know it!

Free Special Service Bureau

Here's a big Galloway idea—something you need—something practical and valuable—and your'e welcome to it, FREE. My force of high salaried Engine Experts are at your command absolutely without charge. They will tell you how to select exactly the engine which is best suited for your particular purposes; how to test and judge an engine; how to use one to best advantage; how to fit up a power house—besides answering fully and completely any question about the care and operation ot an engine. This is absolutely free to you whether you buy a Galloway or not.

Get My 1913 Proposition

Send for my New Engine Book, Free Power Trial Test Offer and my new and original plan by which you can get your Galloway Engine either wholly or partly FREE. I'll explain this plan fully when you write me or mail FREE coupon below. Send it in today.

Galloway Says—Help Yourself—FREE!

I am here, ready—eager—to serve you. Why hesitate a moment to let me help you help yourself? Remember, you risk nothing—no obligation at all—in finding out just what your slice of the Galloway Melon will be for 1913. Send no money—just your name and address on free coupon. Just put a cross mark in the square [ ] opposite any one or more of the Books and Offers you want. Anything worth doing is worth doing promptly. You're bound to write Galloway sooner or later—why not now? **Do it!** Mail the Free Coupon at once, and see what you get—FREE—by first mail.

Wm. Galloway, Pres. WM. GALLOWAY CO., 107 Galloway Sta., Waterloo, Iowa

Remember, we carry stocks at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg

Mail This FREE Coupon NOW!

William Galloway, Pres., WILLIAM GALLOWAY CO.,
107 Galloway Station, Waterloo, Iowa

Please send me—FREE—your latest 1913 price-smashing offers; also following free books which I have checked:

- ☐ Galloway's Latest Manure Spreader Catalog, "Evidence" and Wonderful "Streak of Gold" Book.
- ☐ Galloway's Bath-in-Oil Separator Catalog and Fascinating New "Cow Book."
- ☐ Galloway's World Beater 64-page Engine Catalog in four colors and "Proof of the Pudding."
- ☐ 144-page General Merchandise Catalog.

(Put an X in any or all of above squares.)

Name.....

Town.....R.F.D.....

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A Big Thing on the Farm

Old Dutch Cleanser saves work and time on the farm in dozens of ways.

Aside from its many good uses in the home where it takes half the work from housekeeping, it is invaluable in quickly and hygienically cleaning the dairy pans and pails. In the barn, harness and carriage sides and tops clean easier and better. Everything that requires cleaning calls for Old Dutch Cleanser. Nothing else will do the work half so well.

Many uses and full directions on large Sifter Can — 10c.

Old Dutch Cleanser

4 BIG FASHION BOOKS FREE

SHOWING HUNDREDS OF NEW STYLES

Of women and children's clothing and contains **Illustrated Lessons** on **Cutting** and **Dressmaking.** One book will be sent to you by return mail and a new book in October and March each year until you have received the four books. And what is perhaps more important, I will sell you dress patterns of any style shown in these books at **five cents each.** They are the same patterns you have always paid 10 and 15 cents for at stores, made by the same people and correct in every detail. Let me tell you why I give these big books free. I publish the

HOME INSTRUCTOR

An illustrated woman's magazine, and I want YOUR name on my subscription list. **The HOME INSTRUCTOR** is bright, entertaining, clean and instructive—just the sort of a paper you should have in your home. It has departments for every feature of the home life, and prints the choicest fiction every month. Every issue has pages devoted to the latest fashions, fully illustrated.

MY SPECIAL OFFER

Send me 25cts. and I will send you The HOME INSTRUCTOR for TWO YEARS and will send my big fashion book to you FREE by return mail and another book in October showing fall and winter styles, and in March, showing spring and summer styles, as long as you are a subscriber to The HOME INSTRUCTOR. Please note you will receive **THE HOME INSTRUCTOR** every issue for **Two Years.** Each issue for **Twenty-four months including the four big fashion books.** It will bring you the latest and best information about the styles for women and children. *Special attention to children's clothing, and everything made plain for the home dressmaker.* Just think of the money it will save you! Because I agree to sell you any pattern you want thereafter for 5 cents. I can sell them for 5 cents because I buy them by the thousand and don't make any profit. I don't want the profit. I want your subscription to **THE HOME INSTRUCTOR.** You will save many times the cost of my offer in two years. Tell your neighbors about this offer.

WRITE TO-DAY.

A. OTIS ARNOLD, Dept. 8. QUINCY, ILLINOIS

TRADE MARK

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LEADS IN HIGH QUALITY AND LOW PRICE

CYCLONE ORNAMENTAL LAWN FENCE

Is extra heavy weight, sag-proof weave, close, even spacing of the picket wires, self-adjusting to uneven ground; easy to erect on wood or iron posts.

The enormous output of our factory, the biggest of its kind in the world, makes **Cyclone** the lowest priced high-grade fence you can buy.

CYCLONE VICTOR FARM GATES—HEAVILY GALVANIZED; the strongest gate made; has tubular steel frame free from holes; heavy wire fabric, rust-proof, automatic lock absolutely stock proof; raise device holds gate firm in any position at front or hinge end.

See your dealer about these goods; or write us for fine Free Illustrated Catalog.

CYCLONE FENCE CO., Dept. 76 • • WAUKEGAN, ILL.

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

If there is not enough to go around, it is so frequently the woman who does without.

Consider the farm home in the light of this statement.

When father thinks he should have a new seeder or an improved binder or one of half a dozen of the modern implements or machines which so greatly facilitate farm labor, he buys it.

Money to pay for it is gotten somehow. If there is no cash on hand, the money is borrowed, or stock is sold, or the future is mortgaged in some other way. The idea is that the implement is necessary.

Father's father sowed seed by hand and threshed the increase with a flail. Father would not dream of following in his father's footsteps; it can very easily be seen how foolish it would be to do so. He can invest his time and strength to better advantages, and he does so.

Meantime, what of mother?

Mother's mother washed with a board; rung clothes with her hands, and mixed bread with the same. She swept with a broom, chopped food and peeled apples with a knife.

Since mother's mother's day it has become possible to secure washing machines and wringers, carpet sweepers, food choppers, and a score of other labor-saving appliances and conveniences for the home, but mother has none of them!

Thanks to modern inventions, father's labors, heavy enough even now, are lightened in all sorts of ways; mother, however, toils on as if there were no labor savers, no kitchen conveniences on the market.

It is time that this matter received the thoughtful consideration of both the husband and the wife in the farm home. It is no doubt that sometimes it seems necessary that the work on the farm be facilitated at the expense of the home and the woman, but it is an open question if such a course is really necessary in the long run.

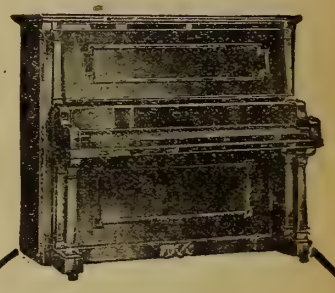
A loving woman in normal health is always willing to bear the heavy end of the load and to insist that she is able to do all sorts of tasks, but if her husband be wise he protects her from herself as far as possible. He reminds her that she cannot give healthy bodies to their children if she depletes her physical energies by overwork. He tells her that if she overdoes she will surely have to pay for it later in life. He tells her that labor savers cost less than doctors. He calls her attention to numbers of worn-out, sickly women among their neighbors, and points to the cemetery where others went before their time leaving children to grow up without the mother love and care which is their right.

Best of all this wise husband does such things as make his wife's household tasks as easy as circumstances permit. In such a home the water supply is carefully planned to save time and labor, the fuel is convenient, the wife neither coaxes for money nor hoards pennies to buy labor saving conveniences. All such things are purchased from the family purse or are love tokens from the husband who is anxious not alone that his wife's strength be conserved for the higher part of homemaking, but that she shall be reminded of his love and continued interest in her work.

Women do without labor savers when they should not for several reasons. Some women have a passion for self-sacrifice, and as long as there is anybody else needing anything they are quite content to do without. Some women live a day at a time, never dreaming that they are overdrawing their account, that if Nature's bills are not paid, compound interest is exacted in the shape of diseased bodies and nerves that make life a burden. Some women forget that their physical services are the smaller part of their duty to husband and children and that they should be so arranged that the duties of wife and mother on the spiritual plane are not interfered with.

All such women need to be reminded that they have also duties to themselves, that it is wrong for them to submit to working conditions which reduce them to a mere machine with no thought or care for the development of the spiritual, or which wreck them until they are bundles of disease and discontent.

Every soul, that of woman no less than man, should make growth and unfoldment the main object of living. When this thought is grasped,



One of Our 38 Styles

Rock-Bottom

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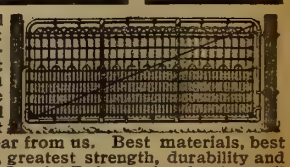

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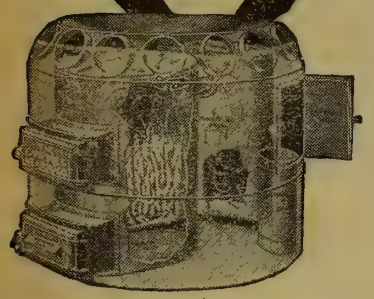

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the day's work becomes a means not an end, and life is regulated accordingly. In this regulation things that save time, labor and strength should have a definite place.

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The pathway to success is in serving humanity. By no other means is it possible, and this truth is so plain and patent that even very simple folk recognize it.—The Fra.

"If I can scatter flowers along the path, or put touches of a rosy sunset into the life of any human being, if I can sow in any human heart the seeds that awaken desire for heavenly manna—by word or deed, sentiment or song—then I feel that I have walked with God."—Selected.

TEACHING THE CHILDREN.

As soon as the babies are old enough to learn anything, teach them to put the playthings in their places. Make them feel ashamed of leaving things for their mother to pick up. It will require patience, far more than to do it yourself and have done with it. The children will be heedless and careless and forgetful. Do not expect to succeed the first time, nor the hundred and first. But perseverance will conquer in the end; your child will acquire the habit of order and be the better equipped by so much for the battle of life.

HEALTH HINTS.

A disordered stomach can generally be put into pretty good working condition with a pint of hot water, taken just as hot as possible, sipping very slowly, before each meal and before going to bed at night. The habit should not be allowed to become a chronic one, however.

Moderation in eating is as important a factor toward good health as any one can mention, because just enough of the right sort of food is all that profits the body. Food over and above what the body needs putrefies and fills the stomach and intestines with gases.

If subject to cold feet, rub them thoroughly with something rough before going to bed. Strictly avoid anything heated—a soapstone, flatiron, etc.—for keeping the feet warm in bed. It makes them tender. Use instead knitted bed shoes or stockings, or use very large woolen socks or stockings. Hosiery of the usual size worn will impede circulation and the feet will remain cold.

A quick rubbing all over the body with a rough towel, a flesh brush or horsehair gloves is an excellent thing to do just before going to bed, as it quickens the circulation and often induces quiet sleep, but this should not be done in a room where the temperature is so low as to suddenly chill the body when the clothing is removed.—Exchange.

FOR THE COOK.

Fruit Cookies.—Beat to a cream one cupful of sugar and one-half cupful of shortening; add one-half cupful of sweet milk, one beaten egg, two and one-half cupfuls of flour and three level teaspoonfuls of baking powder. Filling: Three-fourths of a cupful of sugar, one cupful of boiling water, one cupful chopped raisins or figs. Cook until thick. Roll cookies very thin. Place teaspoonful of filling on, cut out cooky and place another on top. Press the edges lightly together. Bake quickly.

French Fried Potatoes.—In the home where a great many potatoes are used the family grows tired of the ordinary fried potatoes. If you try the French fried you will find them much superior to the ordinary fried ones. Take as long potatoes as possible, cut in long, square-sided cubes about the length of your finger or as long as the potatoes will admit. Have rather dry, drop in frying pan with rather deep fat. Salt, pepper and allow to brown on all sides. Lift with a wire spoon so as to leave the fat in pan. You will find these highly palatable and are not extravagant, as the fat can be used for other purposes. They take up very little of the fat. A small portion of butter will aid in the browning.

Filled or Stuffed Cabbage.—Cut the stalk off close to a large, firm head of cabbage, then slice off the crown neatly for a cap. Now dig out the center, first the stalk, then leaf by leaf, from the inside until the cavity is of the right size. Filling: Run through the food chopper a quarter of a pound of suet, four thick slices of stale bread previously soaked in water and three medium-sized onions. Add this to two pounds of finely chopped raw beef, two eggs, a teaspoonful of celery, and salt and pepper to taste. Work and stir well with the hand, using no spoon. Fill the cabbage with this mixture, tie up in a cloth closely fitted to the cabbage, and boil in plenty of water for two hours or more, according to the size of the cabbage. Put an old plate in the bottom of the pot to prevent the cloth from burning.

Sauce for Stuffed Cabbage.—One-half cupful each of melted butter and the water in which the cabbage was boiled. Season to taste with nutmeg. Boil up once and serve hot.

AMONG OURSELVES.

It seems suitable that at this time we should begin to think about the strawberry plot and the rest of the garden things we mean to set out in a very few weeks. For our most northern friends it may be somewhat early, but for our sisters of the south it will be not at all so.

So I present to you the articles on growing strawberries which were written some time ago for just this very occasion. Among the articles sent in were some by professionals. They clearly showed that the writers thoroughly understood their business, but it would scarcely be the right thing to admit these to our competition. With the permission of these writers, however, I hope to let you have the pleasure of reading one or two of them later.

Were I to judge by the letters I received, I would say that Kansas and Wisconsin were the states where farm women took the most interest in this delicious fruit. I have eaten Kansas strawberries with the dew on them, and I also know how sweet are Wisconsin's berries, but Missouri, at least in the Southwest, is a great strawberry country and I had hoped a prize winner would have appeared from there, but the choosing committee awarded two to Wisconsin and two to Kansas, and one to Iowa. Can you tell the north from the South and the middle from the extremes?

A STRAWBERRY BARREL.

A strong barrel—a burned-out oil or molasses barrel is best—that will stand the weather is the first need. Knock out the top and with an inch auger bore about six holes in the bottom. These are for drainage. Then, measuring to get the spaces regular, bore holes in rows circling the barrel and about six inches apart. Only the holes of every other line should fall directly under each other. There will be space for about six rows of ten or twelve holes each. The barrel should be set in a sunny place, having a few blocks under to assist drainage, and should stand exactly level so that the drainage may be straight down; otherwise the water will run out of the holes in the sides and waste the earth. Have some rich earth prepared, well mixed with rotted manure, as this serves to hold moisture for the plants. A good light soil, one that will not bake or pack, is best. Fill the barrel up to the first row of holes with earth. Then sprinkle the soil, from watering pot or hose, so that it settles well. Thrust the roots of the plants through the holes, packing the earth lightly about the roots on the inside. The crown of the plant should be in the mouth of the hole. Put in a new layer of earth and repeat. Be sure to sprinkle each layer of soil as it is put in. This is important. If the soil be sprinkled only after all the layers of earth are put on, the whole mass will settle and the roots be badly misplaced. We find the strawberry barrels fine. There are no weeds with which to contend. Frost on early blooms may easily be guarded against by covering. Drouth is no foe, since a bucket of water poured gently into the top of the barrel will nourish the whole crop. And, too, the berries can be picked without tiresome stooping.

A FAMILY PATCH.

I do think every farmer's family could have their strawberry patch and other small fruits, too. We set a new patch one year ago, rows four feet apart so they can be cultivated just like potatoes or truck, plants two feet in the row, and then we went through and picked off all blossoms and pinched off all runners till after the middle of July. A few years ago we set a patch of 300 plants bought from a nursery, the agent advising us as to the best varieties just for our own use. It lasted seven years, with two years of a more bounteous crop than we could use. We tried twice to reset plants from the old patch, but were not successful with them. Last spring we ordered our plants from a special strawberry grower in Michigan, ordering 350 plants of four different varieties. We received twenty-five extras of a new variety. We set out patch in five rows, seventy-five plants to the row, and about sixty rods from the house, out of reach, we hoped, of our Leghorn chickens, in ground used for potatoes and truck. After ordering plants the ground was manured and plowed; when we received them the ground was harrowed and plants set three or four inches deep, with the roots spread fan shaped. If the ground is in fine condition the only and best way is to set them by hand, pressing the soil firmly. We set ours in a shower and two weeks after not a plant had died, but as last season was very dry I noticed after every hoeing a few plants would dry up, the two outside rows having the most loss. Last fall the manure spreader was run over the patch again, and then a mulching of straw was put on them when the first good freeze came. This mulching is not taken off, but the plants are allowed to push their way through; then the berries will have this old straw to lay on and be nice and clean, while if no mulching is used, or if it is lifted off, the plants would start so early that sometimes the late spring frosts would catch the blossoms, or later on, after a rain, some berries would be buried in mud. And now for the work. When I asked the good man if I could have another strawberry patch he said, "Yes, if you will keep the weeds out of it," so I counted my working force, four boys, their papa and myself, all able to handle a hoe. With the cultivator going through the patch every time the potatoes and vegetable garden were plowed and hoeing between each plant following, we kept our patch in perfect con-

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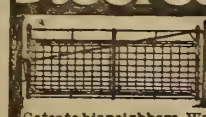

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dition till late summer. The crab grass had to be pulled out by hand, as it is such a persistent grower here, especially in our dry seasons. To be sure, the weeds will grow and have to be hoed and pulled out every season, but as the plants get more thick and shaded there will not be so many weeds. These plants will send out more runners this summer, filling up all the space between the rows, so this fall, after the middle of September, plants should be cut out in the old pathway. And now for the pay. For three weeks we had strawberries, not like we so often got from the market, but fresh and delicious. For a week we picked three and three and one-half gallons a day and this first year is only a sprinkling of what our patch will bear the next two or three years.

The boys said they would just unhitch their horses to graze on the road while they stopped at the patch to pick and eat their dinner, but that would not last long till they would be coming to the house to see if mother didn't have those two rounds or squares, three or four layers high, of short cake piled up there waiting to supply their wants, that most wonderfully prolific, ever-increasing product of the farm, the farmer boy's appetite.

CULTIVATING STRAWBERRIES.

As I have two fine strawberry beds of 1,000 Senator Dunlap plants apiece, I think my experience might help some new beginner. One bed is on timothy sod, heavily manured, the other on old ground with a very heavy dress of hog manure. Both were plowed in the spring and worked fine. One was set out about April 10th, the other May 20th, so I will say that they can be successfully raised where corn will grow and set at any time. I furnished plants for a bed last August that did fine. Mark the ground with a planter set about one foot apart. The important thing is to set "right." If plants are not trimmed when they come, trim all dead leaves and leave about two inches of the roots on. Make a small hole, spread root well in all directions, put in a little loose dirt, pour in a little water, let stand till settled, then fill up with dry dirt. Be very careful not to get any water on crown of plant, as it will die if you do. I don't think it necessary to water plants after setting if this is done. Cultivate with plow once a week till about August 1st, keep clean and free from weeds, train runners to a matted row as soon as they appear. A little loose dirt thrown on them will hold them in place. Cut off all bloom the first season. I never cover in the fall, but about April 15th mulch them with whatever I have, straw or wild hay, not too heavy, but enough to cover ground well. They will grow up through. The berries will always be clean, no matter how hard it rains; then, too, you can get down and pick them soon after a rain, as mulch soon dries. Mulch heavier in your pots between the rows, as it also helps to hold the moisture longer. I have always done this and always have berries when others fail. Winter mulching often smothers out plants. Nature's mulch is best, which is generally snow.

CAREFUL CULTURE.

When one considers the ease with which the strawberry may be grown, and the universal fondness for the fruit, the wonder is that more do not plant at least a small bed for home use. A few square feet of ground and a little time employed in cultivation will give to the farmer all the strawberries his family can use. I have grown the strawberry for many years, both here and in my former home, and have found that it succeeds in a great variety of soils. Any soil that will grow good crops of corn, potatoes or garden truck will grow strawberries. A deep, rich and moist soil suits the strawberry perfectly. The soil where I now live is a clay loam. When I set out a new strawberry bed I spread on a heavy coat of well-rotted stable manure and have the ground plowed deep as early in the spring as the ground can be worked. If the soil is not very rich, I spread on, after plowing, another coat of well-rotted manure and harrow until this is well incorporated with the soil, and the soil is in the finest possible condition. I then set out the plants in rows three feet apart and one foot apart in the rows. After planting I cultivate around the plants and between the rows often enough to keep the ground clean and mellow. In garden culture there is for this purpose nothing superior to a steel garden rake. With this one can go over a bed a rod square in less than fifteen minutes. As the runners appear I turn them along the row, where they take root, forming a matted row, and covering the ground all but about a foot space between the rows. After the ground is frozen in the fall I cover the plants lightly with cornstalks, leaves or litter that is free from weeds. In the spring, when growth commences, this covering is removed. As to varieties, I have grown in this locality with marked success the Warfield, Senator Dunlap, Cumberland, Bubach's No. 5 and Jessie. These are all desirable for the home garden and also fine for market. The Senator Dunlap and Warfield go well together and are my favorites. The berries are of superior quality and excellent for canning. The plants have the ability to succeed under all circumstances. As showing the wonderful productiveness of strawberries I may here state that I have grown on a bit of ground fourteen feet square 110 quarts of as fine berries as anyone ever saw. After the plowing or spading and harrowing is done I always plant and care for the strawberry bed myself. It is easy work and very profitable. Plants set out in the spring in rich ground, and the bed kept clean, will give the best crop that can possible be produced the following season.

STRAWBERRY GROWING.

Our strawberry bed has been such a source of profit and pleasure to us that I am always glad to say a good word for this most delicious of all fruits. I first started to grow strawberries in a small way and father plowed and harrowed the ground, which was of a rich, mellow loam, into prime condition. We made the rows about four feet apart so that they might be cultivated with a horse and we kept them absolutely clean. After the first year we allowed the rows to become matted, so when we picked our first crop, the second year, we had nice, clean berries. As to varieties, we had only a few plants to start with, but they proved to be good kinds and well suited to our locality. We had the Wilson, Warfield, Captain Jack, Crescent, Senator Dunlap and a few of a northern variety called the Blizzard Belt, which are fine. Our berries did well from the start and, besides being a great treat to us and our friends, I soon found I could make some money from them. I gradually enlarged the bed and tried to read and learn all I could. Each year I have tried to raise better berries than before. I have always found a ready market for

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hem, because I had first-class fruit and hey sold themselves. As to time and are, strawberries respond so readily to ood care that it pays to give them the ery best; and I believe I put no more are and labor upon each row of straw- erries than upon a row of onions. trawberry growing might be very prof- tably taken up by farm women and irls who want to earn a little extra oney. It is nice, first of all, to have hem on our own tables and preserve shelves and since nearly every one likes them one can find a ready sale for any surplus. Of course it takes a good deal of hard work, but we all know there is no reward without effort. Long live the strawberry!

ESSAY CONTEST NOTICE.

Suppose that, this time, we have a good discussion along the lines of modern methods of housekeeping with special reference to household conveniences and labor-saving appliances (homemade cones included). To encourage a flood of letters along this line, we will have a prize letter contest and the first prize will be a one-vessel fireless cooker; second, third, fourth and fifth $1 each. Tell us why you purchased certain articles; whether or not you found them come up to your expectations; or, tell us what you consider the most useful modern household appliances, giving reasons for your opinion. Make your article from 250 to 300 words and send it in on or before March 5th.

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Garth Jones, the wonderful English Artist, has tried with his gifted pen to convey to you this idea of "The Highest Peak in Bargaintown." But you can never really get what he means until you have seen the book on which the idea is based—the new 1913 catalogue of Montgomery Ward & Company.

Why not write now—it won't cost you a cent. We mail it free. All you need to say is "send on your catalogue without cost to me" and it will reach you without delay. Address Dept. P17.

MONTGOMERY WARD & COMPANY
Chicago Kansas City Ft. Worth, Tex.

PATENTED COLUMBIA BATTERIES

The Percherons of Dry Batteries.

HONEST HARD WORKERS

Cost No More; Last Longer

You deserve COLUMBIAS and you will get them if you insist. All first class dealers have them. For gasoline engines, tractors, autos, bells, telephones, barn lights and every battery service.

National Carbon Co.
Cleveland, Ohio
Factories in U. S. and Canada
Fahnestock Connections without extra charge.

Save Money

Don't buy fence until you write for Square Deal prices. See the Square Deal lock; the wavy strand wires that keep

Square Deal Fence

tight and trim; the one-piece stay wires that prevent sagging, bagging, and bucking—requires fewer posts, saving money and labor. Send for catalog, price list, our dealer's name and a high grade, four-section, two foot folding rule, FREE.

Keystone Steel & Wire Co., 409 Industrial St., Peoria, Ill.

Comfortable Fur Coats — For Less Than Cloth!

We will make your beef or horse hides up into robes or coats for you at a price under that you would pay for an odinary cloth overcoat. They will be

Softer, Lighter, Stronger

than any other fur coats or robes you can secure elsewhere. We are specialists in the art of high-class tanning. Let us send you today our catalog and price list.

DUBUQUE TANNING & ROBE CO.,
45 S. Main St., DUBUQUE, IOWA.

CUP ELEVATOR

Always ready for use. Placed inside the crib in the dry. Easy running, durable and strong. Elevates oats, wheat, or ear-corn, 50 bushels in three minutes.

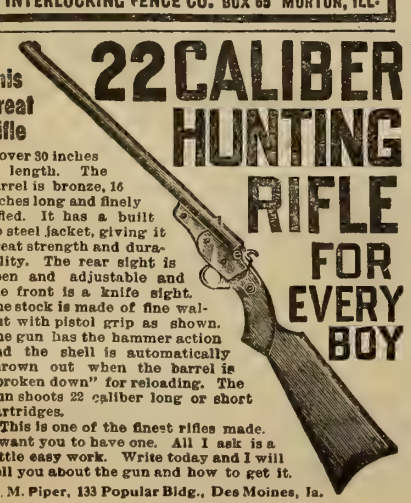
SET IN YOUR CRIB BEFORE YOU PAY

The first successful **Upright Ear Corn Elevator made—SOLD DIRECT to the Farmer.** Free Catalog showing 8 styles with crib plans which save you money. Write for it today.

INTERLOCKING FENCE CO. BOX 65 MORTON, ILL.

This Great Rifle

22 CALIBER HUNTING RIFLE FOR EVERY BOY



is over 30 inches in length. The barrel is bronze, 16 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

This is one of the finest rifles made. I want you to have one. All I ask is a little easy work. Write today and I will tell you about the gun and how to get it.

A. M. Piper, 133 Popular Bldg., Des Moines, Ia.

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed Aunt Mary, Hawley, Minnesota.

LEARN THIS BY HEART.

Onward, though the hills of life be hard to climb.—Sent by De Pera.

Our greatest glory is not in never falling, but in rising every time we fall. —Sent by Red Red Rose.

You never can tell what your thoughts will do
In bringing you hate or love;
For thoughts are things, and their airy wings
Are swifter than carrier dove.
They follow the law of the universe;
Each thing must create its kind;
And they speed on the track to bring you back
Whatever went out of your mind.
—Sent by Willamette.

WRITE TO THIS LITTLE LAD.

I am a little boy six years old the 21st of January, and my papa died that day. I am very lonesome without my papa. He was a Mason and a Woodman. I have four sisters and one brother, and I have a little Shetland pony. I ride him and I drive him too. I want to have you all write to me.—Little Boy Blue. (Thomas Clark, Jr., Route 2, Box 9, Aledo, Ill.)

ROLL OF HONOR.

Almay	Amabel
Anxious	Arkansas Girl
Arrah Wanna	Atlantica
Aurora	Berry Picker
Bobby	Brown-eyed Beauty
Brutus	Candy Girl
Hillside Rose	Iowa
Jolly Boy	Jolly Jack
Kansan	Kansas Girl
Liberty Bell	Little Boy Blue
Manna	Marion Bell
Mary	Mountain Lion
Carnation	Daddy's Girl
Dap	Dawn
De Pera	Dylia
Eyes of Blue	Fairy Queen
Farmer's Daughter	Fergus
Firm	Flotis
Franklin	Ole
Ozark Girl	Restaurant Lass
Shawnee	Sibyl-Lena
Ted	Varidon
Vashi	Virginia
Wanola	Washingtonia
Wava	Yerma
Zelfa	Happy Harry
Goldie Lock	

These young folks sent good letters, stories, verses or original puzzles, all their own work, signed with full address, and written on but one side of the paper.

Yerma wins pansy badge for three publications on the Roll of Honor.

No credit given on roll for the following: No address, Dairymaid; no general interest, Cloverland Lassie; recipe, Lodlie; not original, Lena Zehr; written both sides, Beverly, Fern, Hunter, Paul Vavricka, Teena Urish; conundrums, Becky Bess, Lu Seal, Red Red Rose, Vermo. Try again, young friends.

MORE BEHEADMENT SOLVERS.

Ada Van Gorp, Alta Schmidt, Amanda Kempe, Angeline Sand, Anton Jensen, Apple Blossom, Arbutus, Arrah Wanna, Astrea, Augusta, Aurora, Belda, Bernice Kalley, Bernice Robuck, Beryl, Beverly, Billy, Blackbird, Blanche Keltner, Bluebird, Blue-eyed Kittie, Bob, Bright Eyes, Captain, Carrie Peterson, Chester Sheets, Chin Whiskers, Clare, Clarence Rapp, Clalla Eden, Demosthenes, Dorothy Dimple, Earl Smith, Easter, Edna Durant, Edna Harnagel, Edna Kennedy, Edna Row, Edwin Parker, Electricity, Elf, Elizabeth McKinstry, Ella Saunders, Ella Woodward, Elsie Whipple, Elva King, Ekvera Lindburg, Emil Zurbuchen, Emma Schlafke, Etta Shull, Eula Wintermuts, Eyes of Blue, Eyes of Brown, Faith, Fanny Fern, Farmer, Fay Haverstick, Florence Bartlett, Florence Pierce, Floss, Flossie, Gaylord Brownell, Gladys West, Gladys Wetherbee, Glenn Morrow, Gold Jessie, Grace Gary, Guy Kirkendall, Hazel Belle, Helen Baldwin, Helen Hart, Helen Moore, Hyacinth, Idelle Mulford, Inez Parsons, Inga Egeland, Iowa, Irene, Bower, Isabell Eden, Jennie Marshall, Jessie Judd, John Lesch, Kansas Sunflower, La Rue Coulter, Laura Dennis, Leah Conley, Lenna Newman, Leslie Miller, Lewis Horn, Lillian Koester, Lillian Leverich, Little Nell, Louise, Louise Helser, Louise Rabe, Lucile Hollister, Luella Hansbrough, Mabel Weaver, Maggie Kern, Margaret Barker, Marian Mewhirter, Marian Mitchell, Marie Ferguson, Marie Myers, Marion Frary, Mary Daily, Mary Kemmel, Mary Miller, Mary Tyrel, Mary Webb, M. C., Meadow Lark, Meribah Fowler, Minerva Simon, Missouri Girl, Morning Sun, M. S., Myrtle, Naomi Baker, Nebraska Lad, Nellie Tilton, Oklahomian, Peaches, Pearl Brown, Peggy, Percy, Pigeon, Rainbow, Red Red Rose, Regina Hallowell, Riches, Robin, Rosebud from Hillside Farm, Ross Wilcox, Roxy, Roy Ikamire, R. S., Ruby Kirk, Ruth Watkins, S. B., Sibyl-Lena, Silver Bell, Sis, Sunshine, Susie Green, Thelma Van Cleve, Theo Carbaugh, Valentine, Velma Carson, Verna Ferrier, Verneal, Vernon Rilgeway, Vesper Monk, Violet Tvedt, Virginia Paulsell, Wee Wifie, York McClary, Zilpha.

This makes 303 solvers of the beheadments up to date. Only one prize was offered.

A Nature Lover.

Although this is the last of January, this is the second "taste" of winter we have had. And is there anything so invigorating as a cold day? I live on a farm and to me there is no place like it. Perhaps you think I've never been to the city, that's why. No, I've been to the city several times, and like the country better every time. You are free to do as you like, sing and laugh as loud as you please, and "next door neighbor" will not tell you she has just put baby to sleep. Every day there are new and different things to be seen. Yesterday was a gray, solemn day, but as I stood on the river bank and watched the waves splashing around every log and snag (they seemed angry, in sympathy with the weather). I realize that nature put beauty in even the gray day. On the farm if you are kind, every animal is a friend. In my walk yesterday, I visited the calves, and do you know, they almost ran over me, so glad they seemed to be, but, of course, they know I sometimes have salt for them, and always rub their necks and heads. I sat on the fodder pile in their pen, and one actually kneeled in my lap. In the country, God's nature seems to inspire one to be good, while in the city, man-made theaters, public dance halls and saloons make one think "What's the use?" City cousins who read this, please do not censure me, as I certainly do not mean that all people living in the country are perfect as to morals, and that city people are all bad. No, surely there are more temptations to resist in the city, and those who do resist must be really good. Morning Glory gives us a pretty pen picture of what she does when it snows and sleets. Bedouin, Hiawatha, Blue Bell and all of you old writers and new ones, too, put on your wraps and take a long walk in this jolly, cold weather, and then write us what you have seen or done, I know it would interest others as well as me. Don't you think so, Aunt Mary? How many of you have an "Old Maid" for a chum? I have, and find she isn't like one at all. I must quit, and take another walk to the river and see what the waves say now.—Vashi.

MOTORS FOR SALE

A PROMINENT automobile manufacturing concern offers for sale, at a bargain, a few slightly used motors. These motors develop horsepower ranging from 34 to 50, and are all of the four cylinder type. They have been slightly used for testing purposes, but have since been overhauled and are at present in first-class running order. They are offered at very attractive figures and should give excellent satisfaction as a means for furnishing power for almost any purpose about the farm. If you are interested in obtaining an excellent power plant cheap for use about your place, we invite your correspondence. Address "R," care this paper.

WE TEACH YOU

Learn to operate and repair automobiles. Training on vulcanizers, drill presses, lathes. Pattern making, moulding, brazing and driving. Free catalog. Address

LINCOLN AUTO SCHOOL, 2338 O St., Lincoln, Neb.

AGENTS One cent invested in a postal card will bring you a $35 to $60 a week proposition.

Wm. R. Petticrew, Manager, Box 309 E, Waterloo, Ia

GOVERNMENT FARMS FREE. Our 112-page book "Vacant Government Lands" describes every acre in every county in U.S. How secured free. Latest diagrams and tables. All about Free Government Farms. Official 112-page book. Price 25c postpaid. WEBB PUBLISHING CO., Sta. H, St. Paul, Minn.

CIVIL SERVICE examinations open the way to good Government positions. I can coach you by mail at small cost. Full particulars free to any American citizen of 18 teen or over. Write today for Booklet O-1143. Earl Hopkins Washington, D. C.

Bees for the Farm Need little attention and pay big profits if you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.

THE A. I. ROOT CO., Box 314, Medina, Ohio

AGENTS WANTED—Farmers' Directory. Account Book. Exclusive Home Territory. Quick seller. Big inducements. Particulars free. Write Naylor 945, Ft. Wayne, Indiana.

Save $25 TO $75 on First Cost—Then

MORE HEAT WITH LESS FUEL

Are you willing to pay $25 to $75 *more* for a furnace not nearly as good as the Kalamazoo? Certainly not, especially when the Kalamazoo gives greater heat and cuts down fuel bills. Furnace and complete fittings shipped direct at *factory price.*

30 Days Free Trial—Cash or Credit

You don't keep the Kalamazoo unless it *proves* in service that it can heat your house perfectly at minimum expense. Convenient payments. We pay freight charges.

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Gives you *facts* that will save you money in buying, installing and operating your furnace. We're glad to mail it free—write a request on a postal,—**ask for catalog No. 916.**

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Manufacturers, Kalamazoo, Michigan.
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Trade Mark Registered.

A Kalamazoo Direct to You And Gas Stoves Too

SAW WOOD

Saw your own wood and save time, coal and money; your neighbors and

MAKE $5 to $15 a DAY

Hundreds are doing it with an APPLETON WOOD SAW

We make 7 styles—steel or wood frame—stationary or mounted on truck with gasoline engine, making a

Portable Wood-Sawing Rig

Rigid frame, lathe-turned arbor, running in self adjusting, non-heating, dust-proof boxes makes our saw frames simple, strong, safe and succesful.

We also make the famous **FRICTION-DRIVE DRAG SAW APPLETON CIRCULAR LOG SAW.**

Ask for our complete *free catalog.*

APPLETON MFG. CO.
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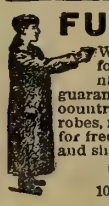

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BAYER TANNING CO.
105 S. W. 9th St., Des Moines, Iowa.

OUR TRAPPER'S FRIEND AND GUIDE FREE

MODERN METHODS IN TRAPPING. This GUIDE is as different from any Guide you ever saw, as an AUTOMOBILE is different from the old time STAGE COACH. $100.00 would not buy it or you if you could not get another. You never saw its equal. You get the GUIDE FREE, ordered on our blanks. Write the Old Square Deal Fur House.

WEIL BROS. & CO., A 28 Ft. Wayne, Ind.

Big Doll For You

Nearly Two Feet Tall

This beautiful doll is 18 inches tall, jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood, when you get this doll, and she is yours for just a little easy work. I expect to give away 5,000 of them. Write today for great free offer.

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Popular Bldg. DesMoines, Iowa.

Help the Horse Help You

Give him ideal working conditions. Protect his neck and shoulders with Ventiplex Collar Pads. Then see him throw his weight in the collar—then watch him pull. Then see how gladly he'll help you.

Ventiplex Pads

are made of our patent, porous, Ventiplex fabric. It's full of little air passages, allowing a free circulation of air. Absorbs moisture like a blotter. Draws it right through to the outside from whence it quickly evaporates. Easily washed. They keep the horse's neck and shoulders clean, dry and free from sores, galls, etc.

Your dealer should have them in stock. If he hasn't, write us. Tell us his name and address.

BURLINGTON BLANKET COMPANY
Makers of the famous "Stay-on" Blanket
Dept. 17 Burlington, Wis.
Canadian Address—Windsor, Ont.

Make Farm Work Easy For Man and Horses.

Heider eveners distribute the load so every horse pulls an equal share. That means better work from each horse, easier work for you. They are made for 2, 3, 4, 5 or 6 horses. The 4-horse plow evener works four horses abreast on gang, sulky and disk plows, 1 horse in furrow, 3 on unplowed ground. Heider 3-horse evener for wagon, manure spreader, grain drill, or any implement with pole

The famous Heider four-horse Plow Eveners.

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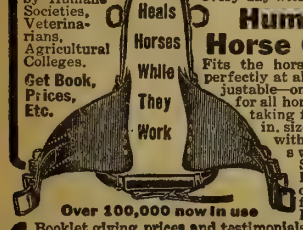
Made right work right without side draft. Will last a lifetime.

Sold by dealers everywhere. If your dealer has none in stock don't accept any other. Write us for free catalog.

165 **HEIDER MFG. CO.** Main St., Carroll, Iowa.

Save Money and Horses



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Humane Horse Collar

Fits the horse's shoulder perfectly at all times. Adjustable—one collar does for all horses or mules taking from 15 to 25 in. size. Does away with hames and sweat pads. Saves time. Lightens draft. Write for FREE Horse Collar Booklet giving prices and testimonials from users.

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We positively give FREE a STEM WIND, STEM SET, BEAUTIFULLY ENGRAVED, Plated WATCH, equal in appearance to Solid Gold Watch, American made, guaranteed 5 years, and a beautiful Ring set with an Im. Diamond, for selling only 20 packages of beautiful high grade art post cards at 10c a package. Order 20 packages, and when sold, send us $2. and we will positively send you the Watch, Ring & Chain. WILLARD WATCH CO., Dept. 289 CHICAGO

WANTED: A MAN OR WOMAN all or spare time to secure information for us. Work at home or travel. Experience not necessary. Nothing to sell. GOOD PAY. Send stamp for particulars. Address M. S. Y. ... 552 ... Bldg., Indianapolis, Indiana.

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ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5489 Lady's Six-Gored Skirt—In this model we have one of the new effects, using a pleated section as an insert at the lower part of the side seams. The panels are retained in front and back and there is no apparent widening of the skirt, although the pleats give greater ease of movement. Serge, cheviot or broadcloth can be used for this skirt.

The pattern, No. 5489, is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅛ yards of 44-inch material. Price of pattern, ten cents.

5978 Miss's Dress—This dress can be used for the small women as well as for the miss. It can be made with either the empire or regulation waist line. The skirt is a four-gored model. Serge, cheviot or pongee can be used to make this dress, with the collar of contrasting goods.

The pattern, No. 5978, is cut in sizes 14, 16 and 18 years. Medium size requires 4½ yards of 44-inch material, with ½ yard of 27-inch contrasting goods. Price of pattern, ten cents.

5888 Lady's Three-Gored Skirt—This garment is cut in three gores and closes at the front. It is one of the most attractive models of the season. Serge, mohair, pongee, linen, pique and other wash fabrics may be used.

The pattern, No. 5888, is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅜ yards of 36-inch material. Width of lower edge is 2¼ yards. Price of pattern, ten cents.

5722 Child's French Dress—A jaunty little French dress is illustrated in this design. It is a practical garment and one in the fashioning of which there is nothing puzzling for the home seamstress. Chambray, gingham, madras or French percale can be used and pretty relief is given by having the collar, cuffs and belt of contrasting goods.

The pattern, No. 5722, is cut in sizes 2 to 8 years. Medium size requires 3¾ yards of 27-inch material, 3 yards of goods 36 inches wide or 2½ yards of 44-inch fabric. Price of pattern, ten cents.

3760 Boy's Russian Suit—The Russian suit is always suitable for the small boy. The blouse of this suit closes at the right side of the front. The trousers are made without a fly and finished with leg bands or elastics. Serge or linen can be used to make this suit.

The pattern, No. 3760, is cut in sizes 2, 4 and 6 years. Medium size requires 2⅜ yards of 36-inch material. Price of pattern, ten cents.

5960 Lady's Apron—This pattern provides for both apron and dust cap. The apron can be made with or without sleeves. It is a becoming model as well as a practical one. Gingham, percale, chambray or lawn may be used for development and the same fabric is used to fashion the dust cap. The trimming is of contrasting material.

The pattern, No. 5960, is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 6¾ yards of 27 inches wide or 5 yards of 36-inch material for apron and cap, with ¾ of a yard of 27-inch contrasting goods. Price of pattern, ten cents.

MEN WANTED!

SOUND men 21 to 40 years old wanted at once for electric railway motormen and conductors in every state. Wages $60 to $100 a month. Experience unnecessary. Permanent employment, no strike. Write immediately for application blank. Address Manager Employment Department, Room 950, Dwight Building, Kansas City, Missouri.

PATENTS that PAY $561,530 made by clients. Patent Book—"What & How to Invent—Proof of Fortunes in Patents" FREE. 112-p. Guide Free! E. E. VROOMAN, Patent Atty., 812 F St., Washington, D. C.

IT is a mistaken notion to suppose that you must paint your house white if you use white lead.

You can have any tint, any shade, and it lasts if you use DUTCH BOY WHITE LEAD and Dutch Boy Linseed Oil.

Dutch Boy White Lead in steel kegs, 12½, 25, 50 and 100 lbs. Dutch Boy Linseed Oil, 1 and 5 gallon sealed cans. Ask your paint dealer.

Let us send you "Painting Packet 52" full of facts every house owner should know about painting. Also Handy Book on Painting full of information for the man on the farm. We will include our catalogue of 100 beautiful stencils for walls.

NATIONAL LEAD COMPANY

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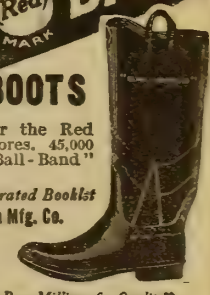
THE man who looks for the Red Ball on the rubber footwear he buys and insists on seeing it can be sure of getting "Ball-Band" quality which means the best that can be made. Figure the cost of your rubber boots on the cost per day's service and "Ball-Band" Boots are not only the lowest priced but the best.

"BALL (Red) BAND" BOOTS



Look for the Red Ball sign in stores. 45,000 dealers sell "Ball-Band" Boots.

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Old Reliable Four-Burr Mills

No Gearing No Friction

Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 3-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the Famous Iowa No. 2 mill for $12.50. Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

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Northfield Well Curb

Prevents disease. Germs and filth cannot seep in. Will not rust or taint water. Any size. Anyone can install. Write today direct to factory for catalog

Northfield Iron Co., 118 Water St., Northfield, Minn.

NEWS OF THE SALE RING

James Williams' Duroc Sale.

At the sale of Duroc Jerseys held by James Williams, at Marcus, Iowa, on Wednesday, January 22d, there was much in Mr. Williams' favor. Contrary to the usual rule of his sales he had a good day and a good attendance of buyers. The tops were not high, not extremes, nor did the low ones drop very badly. An average of $47.25 was secured on the entire offering. A feature was the sow, Miss Mortgage Lifter, and her litter of nine gilts by Model Chief VII. The ten head brought $507.50, a great example of what good a prolific brood sow in a herd can do. The gilts brought $437.50 and the sow $70. The top sow was No. 1, the Golden Model 2d sow, bred to Model Chief VII., which went to A. L. Neville, Aurelia, Iowa, at $85. Only five gilts, and they were late farrow or bred late, sold below $40, showing it to be an even sale. Col. F. F. Luther made it a snappy sale and the buyers from several states, as per the appended list, were right after the good stuff. The following is a list of those selling at $40 or more:

1. A. L. Neville, Aurelia, Iowa	$85
2. Peter Miller, Marcus, Iowa	51
3. Walter Rasmussen, Cherokee, Ia.	49
4. H. S. Fain, Emmetsburg, Iowa.	45
5. J. H. Willtse, Prosper, Minn.	80
6. A. A. Hoyle, Churdan, Iowa	43
7. Ed Rasmussen, Minden, Iowa	44
9. M. J. Quinn, Pomeroy, Iowa	45
10. A. Lentz & Son, Pierson, Iowa	40
11. Henry Holland, Kingsley, Iowa.	50
12. Joe Trienan, Remsen, Iowa	40
13. E. A. Springer, Cleghorn, Iowa.	42
14. Geo. Skeggs, Cleghorn, Iowa	42
15. Geo. Skeggs	41
17. Gearke Bros., Aurelia, Iowa	46
18. A. L. Neville	46
20. L. Essenich, Sioux City, Iowa.	53
21. Nick Hansen, Alton, Iowa	70
22. A. Lentz & Son	57
23. D. G. Mortz, Remsen, Iowa	50
24. John Hourscne, Remsen, Iowa	40
25. R. M. Miller, Prosper, Minn.	65
26. Frank Kritz, Remsen, Iowa	43
27. M. J. Quinn	40
28. John Hourscne	41
29. Joe Trienan	51
30. Walter Rasmussen	50
31. N. C. Molgaard, Alta, Iowa	41
33. John Sonsmann, Remsen, Iowa	48
34. W. H. Iosty, Centerville, S. D.	60
35. Joe Hendrickson, Marcus, Iowa.	43
36. R. A. Simons, Marcus, Iowa	43
37. J. H. Willtse	57
38. C. E. Walden, Washta, Iowa	41

Breeders' Combination Sale.

At Lincoln, Neb., on January 22 and 23, 1913, was held a combination sale of Percheron and Belgian stallions and mares. Thirteen head of stallions two years old and over sold for $8,185, with an average of $629.80. Eleven head of stallions one year old and under sold for $1,863.50, with an average of $169.41. Nineteen head of mares two years old and over sold for $8,042, with an average of $423.30, and nine mares one year old and under sold for $1,800, with an average of $200. Fifty-two head sold for $19,888.50, with an average of $382.47. Stallions were a little slow in selling, but the mares and young stuff sold readily and brought good prices. This being the first breeders' sale held in Lincoln, it was considered a splendid success.

Marshall's Poland China Sale.

G. F. Marshall, Monroe, Iowa, sold forty-nine head of Poland China sows on January 28th at an average price of $47.60 each. It was an even sale from start to finish, nothing going below $25, and with $120 top. The latter figure was paid by S. M. Reed, Monteith, Iowa, for Lady Giant, a last April yearling of more than ordinary merit. The sale was conducted by Col. W. B. Duncan and was entirely satisfactory to buyers and sellers. In addition to the forty-nine sows sold there was one last August boar by Giant King which sold at $45 to J. G. Gallman, Van Horne, Iowa. The list of animals sold at $35 or over is as follows:

Miss Expansion; Tom Kane, Fairmount, Iowa	$ 60.00
Lady Ex.; W. R. Marshall, Monroe, Iowa	90.00
Lady King 2d; Melvin Tool, Monroe, Iowa	55.00
Lady King; W. R. Marshall	90.00
Lady King 3d; A. D. Henry, Beacon, Iowa	62.50
Jumbo Price; Reuben Yell, Monroe, Iowa	47.50
Lady Giant; S. M. Reed, Monteith, Iowa	120.00
Lady Giant 2d; W. L. Willey, Menlo, Iowa	60.00
Lady Giant 3d; Wm. Graham, Prairie City, Iowa	57.50
Wonder Giant; John Morehouse, Prairie City, Iowa	55.00
Miss Wonder 2d; Edward F. Schlosser, Colfax, Iowa	47.50
Wonder Giant 3d; W. R. Marshall	45.00
Wonder Giant 2d; W. R. Marshall	62.50
Miss Wonder; S. Graham, Monroe, Iowa	37.50
Smooth Wonder; R. B. Baird, Central City, Neb.	95.00
Smooth Lady; John Morehouse	60.00
Rood Giantess; W. L. Willey	75.00
Rood Giantess 2d; S. B. Tabor, Prairie City, Iowa	62.50
Lady Expansion; Joe Meekly, Monroe, Iowa	50.00
Miss Lad; S. B. Tabor	47.50
Lady Giant; W. R. Marshall	70.00
Lady King; E. F. Schlosser	47.50
Giant Price; John Morehouse	45.00
Price Again; Wm. Graham, Prairie City, Iowa	40.00
Price Again 2d; Wm. Kane, Prairie City, Iowa	37.50
Smooth Giantess; J. G. Gallman, Van Horne, Iowa	70.00
Smooth Giantess 2d; E. F. Schlosser	42.50
Queen Giantess; A. D. Henry	45.00
Queen Giantess 2d; J. G. Lytle, Oskaloosa, Iowa	35.00
Giantess Pride; W. R. Marshall.	60.00
Miss Prospect; Homer Prine, Os-	
317 Caswell Bldg., Milwaukee, Wis.	
Monteith, Iowa	40.00

markets of the country than any oth-

Smith's Duroc Sale.

J. E. Smith, Victor, Iowa, held a very successful sale of Duroc Jerseys at his farm on January 25th. The top of the sale was No. 22, a great fall yearling sow by Royal Col., selling to Walter Bowen at $80. The sale was a very even one and Mr. Smith received a lot of favorable comment regarding the uniformity and high quality of the class of sows he offered. This is Mr. Smith's eighth sale and each year he has made a marked improvement in his offering. Colonels Kraschel and McIlrath did excellent work as auctioneers. Those selling over $40 are listed below:

1. Walter Bowen, Garwin, Iowa	$60
2. Fred Gurne, Williamsburg, Ia.	50
3. Fred Gurne	45
4. John B. Gant, Delavan, Wis.	47
6. Walter Niswander, Brooklyn, Ia.	57
7. T. A. Coglen, North Liberty, Ia.	53
8. Walter Bowen	46
9. John B. Gant	46
10. N. H. McIlrath, Hartwick, Iowa	48
11. T. A. Coglen	50
12. Fraker Bros., Hartwick, Iowa	48
13. J. W. Crouch, Keswick, Iowa	61
14. A. Breemer, Guernsey, Iowa	42
15. Walter Bowen	52
16. L. Francis, Malcom, Iowa	47
17. Fred Gurne	48
18. Walter Niswander	46
19. N. H. McIlrath	43
21. Walter Niswander	46
21. Hummell Bros., Newton, Iowa	47
32. Walter Bowen	80
23. N. H. McIlrath	44
24. T. J. Engleberg, Williamsburg, Iowa	50
26. T. J. Engleberg	48
28. Walter Bowen	67
29. Fred Gurne	49
30. W. C. Egglet, Aledo, Ill.	50
32. Fracker Bros.	46
33. W. Kronbaugh, Belle Plaine, Ia.	48
34. W. Kronbaugh	47
35. F. Farnum, Victor, Iowa	44
36. W. Kronbaugh	45
37. W. Kronbaugh	49
14. J. W. Robinson	55
25. H. M. Ficke, Long Grove, Iowa	41
29. Peter Sprank	50
29 head ....$1,256; aver	$43.30

Healy's Short-horn Sale.

One of the successful Short-horn sales of the present season was held at Marshalltown, Iowa, on Tuesday, January 28th. There was a brisk demand for both the bulls and females and many of the younger calves were sold separately from their dams and are included in the average. Mr. Healy has been a successful breeder of Bates Short-horns and the offering, though not fat, was in condition to do the most good for the purchasers and was readily taken by breeders at the ringside. Royce & Burger, Shellsburg, Iowa, topped the bull offering and secured the three-year-old son of Earl of Barrington, 7th Duke of Wapsie, at $220. F. W. Guffy, Unionville, Mo., secured one of the bulls which Mr. Healy had used in his herd with much success, Earl of Barrington, at $200. Jas. Collins, Waukon, Ia., topped the female offering, securing the splendid roan heifer, 6th Oxford of Wapsie (Lot 22) at $220. John E. Smith, Laurel, Ia., secured a bargain in the three-year-old heifer, 16th Duchess of Wapsie, at $200. Col. Carey M. Jones sold the entire offering in his usual satisfactory manner. Animals selling for $100 or over are listed below:

17th Duchess of Wapsie, calved July, 1909; Jas. Collins, Waukon, Iowa	$195
Oxford Beauty, calved October, 1904; Arthur Pekers, Cedar Falls, Iowa	170
16th Duchess of Wapsie, calved June, 1909; John E. Smith, Laurel, Iowa	200
Grand Duchess, calved May, 1907; J. M. Ferguson, Marshalltown, Ia.	160
Grand Duchess 2d, calved April, 1908; W. E. Craig, Aurora, Ill.	145
11th Duchess of Wapsie, calved	

I will tell you how to become a prosperous Fruit Rancher in the San Joaquin Valley, California

I will show you how to go to work to get a home for yourself and those dependent upon you.

California is no lotus land, where men gain wealth and ease without effort. But its great central valley is blessed with a soil of wonderful fertility. The high Sierras furnish an abundance of water for irrigation. The climate is ideally arranged for the perfect ripening of a wide range of fruits, vegetables, grain crops, and live stock. The social organization effected by those now there makes it a splendid country in which to build a home and rear a family. It is a land blessed with tremendous natural advantages, and every ambitious, earnest, industrious man who goes, will find there the conditions necessary to insure a permanent success.

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You will not have to undergo pioneer privations. The San Joaquin Valley is a finished country. The varieties of fruit best adapted to the several sections are known. Irrigation water is ready or economically may be developed. The fruit growers' exchanges and other marketing organizations have perfected a system of getting greatest returns for the grower. The state is spending millions of money on country roads. California's school system is superior to any in the country, and the state-wide library organization gives to all access to the great collection of books in the state library.

In a word, you will find here a splendid country for business, even a finer country for home-making, and the greatest country in the world for children.

I believe that every man who buys land in California to-day will find his place an asset of increasing value every year hereafter.

I am anxious to get into touch with men and women who are considering the West as a place to make a home. I know that the organization of which I am the head is in a position to be of great service to all, and I want you to feel at liberty to call upon me for any information about California that you may require. This service is free.

We have just published an illustrated folder describing the San Joaquin Valley. It's free. Read it.

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N. B.—Take advantage of the twice-a-month homeseekers' excursions—go see for yourself. I will tell you about train and fares.—C. L. S.

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Let's get together *right now* on this Dan Patch Manure Spreader offer of mine. Let's look up *all* other manufacturer's prices on spreaders and just see how much *lower* my price really is. $20 to $40 *saved* over what you would pay at retail. Yes Sir!—That's how much I beat them and it's high time *someone* was doing it! Here's as high grade a spreader as can be made, your choice of steel or wood trucks. Easiest running spreader on earth; lightest draft; one lever controls all 5 feeds. Big points *you* ought to know.

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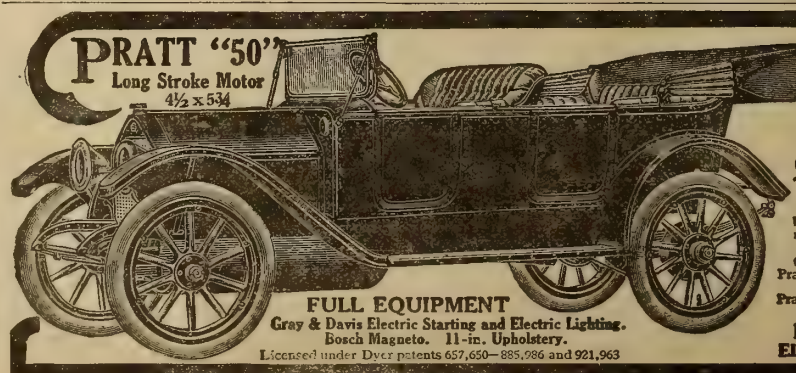

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ELKHART CARRIAGE & HARNESS MFG. CO.
ELKHART INDIANA

City, Iowa 120
Kirklevington Lady 2d, calved June, 1909; J. M. Fergus, Marshalltown, Iowa 180

BULLS.

Earl of Barrington, calved May, 1905; F. W. Guffy 200
7th Duke of Wapsie, calved June, 1909; Royce & Burger, Shellsburg, Iowa 220
12th Duke of Wapsie, calved June, 1911; H. D. DeKalb, Dekalb, Ia. 175
6th Earl of Oxford, calved January, 1912; F. E. Carlson 165
Wapsie Grand Duke 11th, calved January, 1912; A. Funk, Edgewood, Iowa 125
7th Earl of Oxford, calved February, 1912; J. W. Stang, Clarence, Iowa 125
14th Duke of Wapsie, calved June, 1911; Sim West, Marshalltown, Ia. 110
17th Duke of Wapsie, calved June, 1912; B. W. Little, Janesville, Wis. 120
5th Earl of Oxford, calved December, 1911; F. W. Baker 125
3d Earl of Oxford, calved July, 1910; Robt. Holm, Paton, Iowa 145
Wapsie Grand Duke 14th, calved February 17, 1912; C. N. Dunham, Albion, Iowa 100

SUMMARY.

11 bulls ..... $1,610; aver..... $146.36
25 cows ..... 3,085; aver..... 123.40
36 head ..... 4,695; aver..... 130.00

Wright & Sons' Poland China Sale.

The sale of Poland Chinas held by W. M. Wright & Sons, Allen, Neb., at the farm on January 29th, was a very successful one. The crowd of breeders was not at all large, but the farmer buyers were strong competitors on all the sows entered. It speaks extremely well for Wright & Sons that the people in that section come back each year for the product of his herd and many of them speak in high terms of the money-making qualities of the hogs he produces. The day for the sale was ideal and the comfortable pavilion was well filled with a business crowd. The sale was good, as sales go, and was conducted in a businesslike manner by the auctioneer, Col. W. R. Ritchie. The top sow of the sale was Allen Maid, a litter sister to the great breeding boar, Wright's Big Bone, that heads the herd there. She sold to James Reed, Wakefield, Neb., at $101. An average of $53.72 was secured on the forty-four head. The following is a list of sales at $45 or over:

1. Clyde Mather, O'Neill, Neb... $ 72.00
2. Roy Hausserman, Wakefield, Neb. 77.50
3. James Reed, Wakefield, Neb. 101.00
4. L. S. Comstock, Allen, Neb. 80.00
5. J. W. Murphy, Wakefield, Neb. 77.50
6. C. C. Thatcher, Laurel, Neb. 45.00
7. C. H. Garehime, Allen, Neb.. 66.00
9. A. Roberts, Allen, Neb..... 51.00
10. C. D. Smith, Allen, Neb..... 50.00
11. Chris Jensen, Concord, Neb.. 45.00
13. Clyde Jones, Allen, Neb..... 48.00
15. W. H. Walters, Wakefield, Neb. 57.00
16. C. W. Schram, Newcastle, Neb. 66.00
17. W. H. Walters 60.00
18. H. H. Garehime 53.00
19. C. W. Schram 61.00
20. Hornby Bros. 71.00
21. Hornby Bros. 69.00
24. John Reimen, Allen, Neb.... 60.00
27. Isaac Ellis, Allen, Neb..... 48.00
28. C. D. Smith 49.00
29. Geo. Schroeder, Allen, Neb.. 45.00
31. C. P. Kosier, Allen, Neb..... 45.00
36. Rudolph Schroeder, Allen, Neb. 50.00
40. John Reimen 75.00
41. Isaac Ellis 67.00
44. L. S. Comstock 50.00
45. W. H. Walters 66.00
50. Clyde Jones 45.00

SUMMARY.

44 head ..... $2,363.50 aver..... $53.72

Handley's Duroc Jersey Sale.

One of the best crowds of the year was present at the E. E. Handley Duroc Jersey sale at Carroll, Iowa, on January 29th, and fifty head made an average of $61.82. His offering was in nice condition and was appreciated by those present. No high prices prevailed, but it was an even run from beginning to end. Col. N. G. Kraschel did splendid work and the outcome was very satisfactory to Mr. Handley. Below we list those selling for $40 and above:

1. A. L. Neville, Aurelia, Iowa.... $88
2. I. H. Graham, Cherokee, Iowa... 70
3. F. A. Barr, Carroll, Iowa..... 55
4. W. R. Baskerville, Fonda, Iowa. 61
5. M. B. Whelock, Colfax, Iowa... 60
6. Harry Rice, Holstein, Iowa..... 85
7. E. W. Neiderfrank, Greeley, Ia. 67
8. Harry Rice 75
9. J. T. Denny, Grimes, Iowa..... 50
10. Patrick Pendergast, Fonda, Iowa 63
11. J. P. Stow, Burt, Iowa..... 54
12. J. G. Merritt, Glidden, Iowa... 66
13. Joseph Seddon 60
14. Joseph Seddon 51
15. Joseph Seddon 51
16. C. J. Roundy 80
17. H. R. Helshman 51
18. F. A. Barr 50
19. Guth Bros., Manning, Iowa... 44
20. F. A. Barr 50
21. J. T. Denny 74
22. J. F. Lentz, Earlham, Iowa..... 49
23. J. B. Ashby 50
24. W. R. Baskerville 48
25. K. O. Walters, Glidden, Iowa... 54
38. F. A. Barr 46
39. Joseph Seddon 40
40. A. J. Cameron, Harlin, Iowa.... 61
41. Ed Golden, Glidden, Iowa..... 47
43. W. W. Tregloan, Carroll, Iowa. 41

Kuper Bros.' Duroc Sale.

On January 30th Kuper Bros., Bellevue, Iowa, held their second annual sale of Duroc Jersey bred sows. This firm made a wonderful improvement over last year's offering. A number of breeders were present and were pleased with the quality of the Duroes sold. Geo. J. Fruin and Theo. Martin sold the offering. Those selling above $40 are listed below:

1. P. W. Zimmerman, McNabb, Ill..$75
2. J. W. Robinson, Ryan, Iowa..... 50
3. P. Streit, Lamoille, Ill..... 60
3. E. Mitchell, Morrison, Ill..... 48
5. J. W. Robinson..... 50
6. Peter Sprank, Lamott, Iowa.... 60
8. M. Haverland, Bellevue, Iowa... 45
9. Wm. McGowan, Bellevue, Iowa.. 50
10. John Duffy, Dixon, Ill..... 70
12. John Duffy 66
13. Mason & Brackinger, Morrison, 38. W. Kronbaugh 42
39. Frank N. Crow, Oxford, Iowa.. 43
41. Chas. Hogan, Victor, Iowa..... 43
42. C. W. Perry, Aledo, Ill..... 40
43. Ray Schraeder, Victor, Iowa.... 42
50. J. H. Mullin, Victor, Iowa..... 42
51. Hummell Bros. 42
56. John Reefer, Victor, Iowa..... 40
57. H. Miller, Victor, Iowa..... 40
58. M. Kraft, Van Horne, Iowa..... 45

SUMMARY.

40 head ..... $1,940.00; aver..... $48
62 head ..... $ 27.40; aver..... 44

Kissinger's Poland China Sale.

One of the most disagreeable days of January was the sort of weather handed out to G. A. Kissinger for his Poland China sale held at the farm near Milford, Neb., on January 30th. The exceptionally high wind and the biting cold kept many away from the sale. However, there was a fair outside attendance and about the same sort of local crowd. The average of $41.25 on the forty-one head sold must be considered a very satisfactory sale under these conditions. Col. H. C. Wickham conducted the sale and worked hard for the last dollar. All sales of $35 or more are listed below:

1. F. O. Cooper, Milford, Neb..... $68
2. Wm. Kuhlman, Milford, Neb..... 39
3. J. W. Pfander & Sons, Clarinda, Iowa 62
4. Seward County Farm, Seward, Neb. 50
5. Fay Smiley, Seward, Neb..... 42
6. Seward County Farm..... 70
7. Chas. Finley, Milford, Neb..... 61
8. Seward County Farm..... 47
9. Wm. Fleichman, Elmwood, Neb... 44
10. W. H. Brokaw, Milford, Neb..... 44
11. W. B. Cooper, Milford, Neb..... 41
12. W. J. Runty, Milford, Neb..... 36
14. A. F. Rurup, Bee, Neb..... 56
15. G. J. Fleichman, Palmyra, Neb... 41
16. Seward County Farm..... 44
17. W. B. Stolz, Milford, Neb..... 40
19. Fred Mooreberg, Milford, Neb.... 46
20. Seward County Farm..... 42
21. Seward County Farm..... 45
22. Seward County Farm..... 41
23. G. J. Fleichman..... 45
24. Fay Smiley 40
27. F. O. Cooper..... 49
28. Seward County Farm..... 37
31. Fred Mooreberg 40
32. Fred Mooreberg 40
33. Fred Mooreberg 60

B. J. Harding's Poland China Sale.

Another good crowd attended the R. J. Harding sale at Macedonia, Iowa, on February 3d, and he made an average of $81.50 on thirty-eight head. Nineteen sows bred to Col. Gano made an average of $114. The top of the sale was No. 13, a daughter of Chief's Protection, and she went to W. N. Shanks, Worthington, Minn., at $235. Colonels Reppert and Kraschel cried the sale, assisted by Colonel Putnam in the ring. Below we list those selling for $40 and over:

1. C. R. McAndrews, Ainsworth, Neb. $150.00
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
11. [illegible]
10. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
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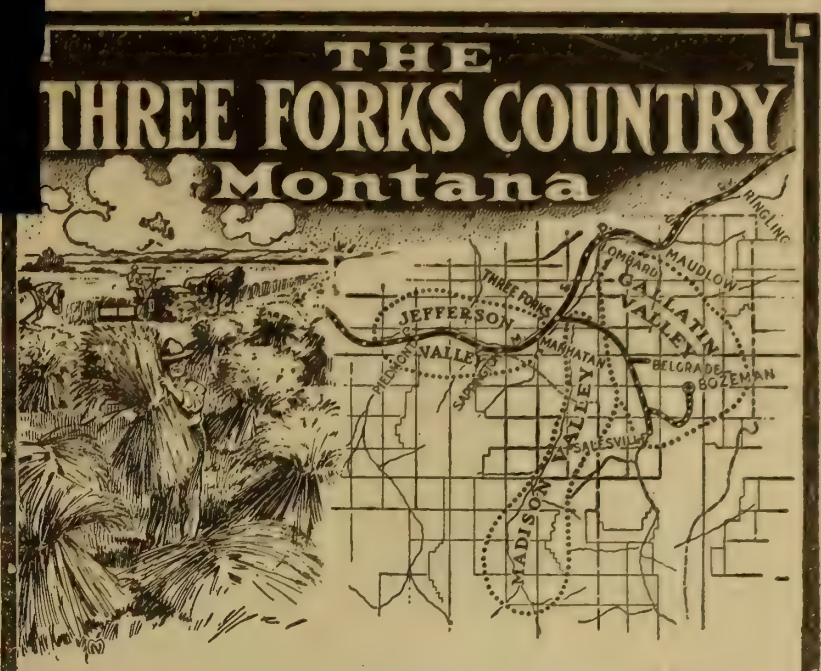
18. [illegible]
19. [illegible]
20. [illegible]
22. [illegible]

THE THREE FORKS COUNTRY Montana



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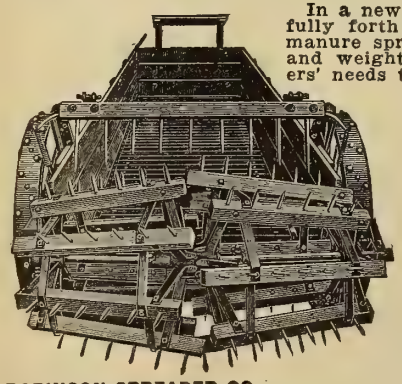

In a newspaper advertisement we cannot set fully forth the merits and advantages of this manure spreader. Its size and style and width and weight make it more suitable to the farmers' needs than any other on the market. It has a capacity of 60 cu. ft. It is low and easy to load, the front and hind wheels track with each other and track with a farm wagon. Being narrow, it is handy to drive into a barn and easy to back into a shed. Its weight is 1,420 lbs. and two good farm horses handle it easily under all ordinary conditions. Its operating parts are simple, strong and serviceable, guaranteed to do the work a manure spreader is intended to do. The sectional cylinder rotates outwardly and spreads to the width of the wheel tracks. It is an ideal spreader. Your implement dealer should handle it. Write for our latest folder describing it. Address

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Farmer's Friend GASOLINE ENGINES THE CH 106 Badger

Wm. Retzlaff's Duroc Sale.

A very nice sale of Duroc Jerseys was held by Wm. Retzlaff, Bennet, Neb., on February 4th. There was only a fair attendance on account of the very stormy day, but the few breeders who were on hand and the farmer crowd was there to buy. A few small sows that really should not have been included cut the average very materially, yet an average of $40 per head was made. Col. W. I. Thompson did the selling in a very efficient manner. Those selling for $35 or more are listed:

1. D. S. Cochran, Lincoln, Neb.....$54
2. Herman Miller, Lincoln, Neb..... 35
4. W. B. Albertson, Bethany, Neb... 40
5. W. B. Albertson..... 36
6. E. A. Fowlie, Hickman, Neb..... 44
9. H. M. Scott, Lincoln, Neb..... 45
14. H. M. Scott..... 48
15. H. M. Scott..... 51
17. H. M. Scott..... 40
23. Frank Maas, Eagle, Neb..... 36
24. Frank Maas..... 35
27. D. S. Cochran..... 50
28. Wm. M. Coatman, Elmwood, Neb. 46

Osborn's Duroc Jersey Sale.

One of the best attended sales that O. E. Osborn has held in recent years occurred in Weston, Iowa, on February 1st, when he disposed of his entire offering at an average of $41. There were no high prices, but an even range prevailed throughout the sale. Below we list those selling for $35 and over:

0. F. L. North, Vail, Iowa.....$86
2. F. L. North..... 43
3. Fred Swan, Missouri Valley, Iowa 51
4. Lou Groves, Weston, Iowa..... 40
5. M. J. Doyle, Neola, Iowa..... 35
5½. A. Prentice, Weston, Iowa..... 58
6. J. D. Isaac, Red Oak, Iowa..... 49
8. W. H. Dobler, Vail, Iowa..... 45
10. E. M. Rinehart, Underwood, Ia... 36
11. F. L. North..... 35
12. A. A. Larson, Weston, Iowa..... 37
13. Chas. Sewing, McClelland, Iowa... 38
14. A. B. Dowden, Maryville, Mo..... 54
15. Chas. Swan, McClelland, Iowa..... 48
16. W. H. Seddons, Persia, Iowa..... 50
18. Bert Lewis, Council Bluffs, Iowa.. 36
19. Henry Torpy, Manning, Iowa..... 41
20. A. A. Larson..... 36
23. J. F. Bancroft, Logan, Iowa..... 37
24. Viggo Hansen, Weston, Iowa..... 40
28. W. S. Golly, Zearing, Iowa..... 51
27. C. N. Christianson, Corley, Iowa.. 38
29. Henry Scott, Weston, Iowa..... 50
29½. Chas. S. Knudson, Industry, Ia. 37
31. Viggo Hansen..... 38

The J. O. James Poland China Sale.

On February 7th, J. O. James sold forty head of Poland China sows at an average of $82 and ten sows bred to Big Orange averaged $104.25. The sows bred to Ott's Big Orange also averaged $94. Below is a list of the tops

1. John J. Fogarty, Central City, Iowa..... 100.00
3. John M. Painter, Mt. Summit, Ill..... 85.00
4. Smallen Bros., Schuyler, Neb.. 80.00
8. John H. Roll, Coin, Iowa..... 67.50
5. C. M. Pederson, Dunlap, Iowa 62.50
11. O. H. B. McDaniel, California, Mo..... 65.00
12. Jas. Anderson, Coin, Iowa..... 40.00
15. Morgan & Wood, Flora, Ind... 42.50
16. Frank Roberts, Earlham, Ia.. 75.00
17. W. F. Rickert, Seward, Kan... 52.50
18. O. H. Sprout, Gault, Mo..... 67.50
19. Ed Klever, Bloomingsburg, O. 172.50
20. John H. Roll..... 75.00
21. G. J. Bloemendaal, Alton, Ia.. 75.00
22. Richard Porter, Troy, Kan.... 75.00
23. A. O. Stanley, Sheridan, Mo... 65.00
24. N. I. Staples, Burlington Jct., Mo..... 50.00
26. Wm. Fisher, Garwin, Iowa..... 90.00
25. Geo. Sefrit, Lucas, Iowa..... 70.00
27. Frank Pilzer, Marne, Iowa..... 62.50
28. John H. Roll..... 65.00
29. John H. Roll..... 40.00
30. C. C. Vink, Bourbon, Ind..... 72.50
31. John H. Roll..... 60.00
33. W. H. West, Shubert, Neb..... 75.00
34. N. G. Moffatt, Afton, Iowa..... 40.00
35. John H. Roll..... 92.50
36. J. F. Nesbitt, Aledo, Ill..... 112.50
37. W. D. Carwin, Essex, Iowa... 122.50
38. W. H. West..... 65.00
39. O. A. Boyd, Madison, Mo..... 130.00
40. Art James, Braddyville, Iowa 85.00
41. Frank Roberts..... 110.00
42. C. J. Savage, Virginia, Ill..... 97.50
43. John H. Roll..... 75.00
44. Elijah Story, Kewanee, Ill..... 162.50
45. Coleman Bros., Ithaca, Neb... 102.50
46. G. F. Marshall, Monroe, Iowa 112.50
47. J. F. Foley, Oronogue, Kan... 87.50
48. R. W. Lamer, Elmo, Mo..... 65.00
49. C. F. Diebrich, Richmond, Kan..... 77.00
50. Jas. Hutchinson, Elgin, Neb.. 50.00
51. A. O. Stanley..... 47.50

Cooper's Poland China Sale.

W. H. Cooper, Hedrick, Iowa, held his annual bred sow sale at his Eastside Farm on February 4th and it was successful from every point of view. The buyers will make money on their purchases and Mr. Cooper made money on the offering at the prices received. The sale was very even, as the top was Price Maid, a great three-year-old sow, she selling for $150 to E. W. Kreischer. John I. Dripps secured three good sows in Nos. 3, 16 and 20 at $115, $102.50 and $100, respectively. The offering was good and suited the buyers. Col. W. B. Duncan did a creditable day's work in selling the sale and was assisted by Theo. Martin and C. C. Evans. A list of those selling at $50 and above is appended:

1. E. M. Kreischer, Mt. Vernon, Iowa.....$150.00
2. Mark Shaw, Monroe, Iowa..... 90.00
3. J. I. Dripps, Mt. Vernon, Ia.. 115.00
5. W. D. Ward, Bentonsport, Ia. 90.00
6. W. H. Crow, Highland Center, Iowa..... 72.50
9. J. Wagner, Washington, Iowa 50.00
10. K. C. Mowrey, Hedrick, Iowa 65.00
11. K. C. Mowrey..... 72.50
12. A. M. Utterback, Hedrick, Ia.. 75.00
13. J. Dowling, Hedrick, Iowa..... 65.00
14. F. Crow, Iowa City, Iowa..... 65.00
15. H. J. Schwab, Vinton, Iowa... 65.00
16. J. I. Dripps..... 102.50
17. A. M. Utterback..... 62.50
18. A. M. Utterback..... 67.50
19. Royer & Farnsworth, West Point, Ill. 60.00
20. J. I. Dripps..... 100.00
21. A. R. Cysinger, North English, Iowa 75.00
22. J. L. Schlabaugh, Wellman, Iowa 67.50
23. Royer & Farnsworth..... 55.00
24. J. P. Wycoff, Highland Center, Iowa 65.00
25. Carl Garber, Deep River, Iowa 65.00
26. Chandler Bros., Seaton, Ill.... 60.00
27. N. J. Bush, Birmingham, Iowa 70.00
28. A. L. Roller, North English, Iowa 60.00
29. J. Glaze, Ottumwa, Iowa..... 57.50
31. E. R. Stodgell, Morning Sun, Iowa 55.00
32. T. L. Goldner, Webster, Iowa. 55.00
34. Chas. Porter, Hedrick, Iowa... 97.50
36. J. W. Hills..... 50.00
37. J. P. Wycoff..... 60.00
38. S. H. Stamen, Aurelia, Iowa.. 50.00
40. S. H. Stamen..... 67.50
41. W. Long, Seymour, Iowa..... 55.00
42. Chas. Porter 50.00
43. E. R. Stodgell..... 55.00
44. C. B. Nelson, Hedrick, Iowa... 52.50
45. E. W. Alexander, Hedrick, Ia.. 50.00
47. E. M. Alexander..... 50.00
48. E. M. Alexander..... 50.00
50. E. M. Alexander..... 50.00

SUMMARY.

52 head .....$3,375; aver.....$65

Brook and Wright's Hampshire Sale.

C. A. Brook and J. E. Wright, Washington, Iowa, held their first sale of Hampshires on February 5th and made one of the most successful sales of the season. These gentlemen had a high-class lot of Hampshires and the sows bred to Joe, Mr. Brook's International prize-winning boar, were in strong demand. J. Crouch & Son secured the top of the sale in No. 12 at $200. Breeders were present from several states and most of the hogs were bought by breeders from a distance. The average of this sale indicates a strong demand for good Hampshires and at the prices paid the purchasers will make plenty of money on their investment. Fred Reppert sold the offering in his usual satisfactory manner. A list of those selling is appended:

1. N. W. White, Bloomfield, Ia..$ 60.00
2. I. K. Beal..... 60.00
3. H. W. Rueppel, Dysart, Iowa 57.00
4. Robert Morris, Viola, Ill..... 180.00
5. A. J. Stonebarger, Lone Tree, Iowa 107.50
6. C. V. Lines 76.00
7. G. T. Pearce, Bloomfield, Ia.. 85.00
8. Art Show, Oskaloosa, Iowa... 53.00
9. R. L .Bollman, Coal Valley, Ill. 59.00
10. Cary Feagins, Bussey, Iowa... 80.00
11. W. A. Fulton 76.00
12. J. Crouch & Son, La Fayette, Ind. 200.00
13. Fred Langford, Viola, Ill..... 58.00
14. W. Burkheiser, Mt. Pleasant, Iowa 68.00
15. E. Brumbaugh, Washington, Iowa 61.00
16. Bert Hickman, Washington, Iowa 60.00
17. F. W. Timmerman, West Liberty, Iowa 100.00
19. Cary Feagins 58.00
20. H. A. Burch, Blanchard, Ia.. 57.00
21. W. A. McGoughy, Viola, Ill... 53.00
22. F. Swift, Washington, Iowa... 66.00
23. A. W. Bringle, Keota, Iowa... 69.00
24. Walter Kennedy, Maple Park, Ill. 72.00
25. F. H. Glancey, Montrose, Ia.. 84.00
26. C. W. Kellogg, Montour, Ia.. 107.00
27. A. J. Stonebarger..... 62.50
28. A. J. Stonebarger..... 66.00
29. I. Wilson, Washington, Iowa.. 59.00
31. Fred Cannon, Washington, Ia.. 56.00

32.	C. V. Lines, Sperry, Iowa	57.00
33.	I. K. Beal, Washington, Iowa	61.00
34.	I. K. Beal	53.00
35.	E. E. Day, Mt. Pleasant, Iowa	55.00
36.	W. H. Tipton, Noble, Iowa	68.00
37.	F. W. Timmerman	50.00
39.	N. G. Nelson, Mediapolis, Ia.	58.00
40.	C. W. Kellogg	56.00
42.	A. Boscalgon, Dunne, Iowa	69.00
43.	A. G. Hoffman, West Branch, Iowa	56.00
44.	E. H. Major, Lakesburg, Ia.	69.00
45.	A. Mathers, Haskins, Iowa	68.00
47.	Joe Wolf, Washington, Iowa	66.00
48.	G. C. Creed, Belknap, Iowa	67.00
49.	P. G. Beal, Washington, Iowa	72.50
50.	N. G. Nelson	61.00
51.	A. Mathers	65.00
52.	Robert Clarke, Columbus Jct., Iowa	50.00

SUMMARY

48 head ——— $3,441; aver ——— $72

H. S. Allen's Duroc Jersey Sale.

Forty head of Duroc Jersey sows in the H. S. Allen sale at Chariton, Iowa, on February 5th, averaged $72.91 per head, and thirteen head bred to old Crimson Wonder Again made an average of $105.50. The top was Lady Brown 2d, a daughter of Ohio Chief Again, out of a Proud Advance dam, and she was secured by J. C. Theobold, Ohiowa, Neb., at $165. Col. Nels Kraschel cried the sale. Below we list those selling for $40 and above:

1.	W. M. Sells, Indianola, Iowa	$125.00
2.	R. M. Skillen, Greene, Iowa	130.00
3.	R. M. Skillen	152.50
4.	Smith & Hall, Vermilion, Ill.	67.50
5.	M. S. Moats & Son, Missouri Valley, Iowa	137.50
6.	Theo. Foss, Sterling, Neb.	90.00
7.	L. A. Grimes, West Union, Ia.	93.00
8.	John T. Higgins, Abilene, Kan.	117.50
9.	J. C. Theobold, Ohiowa, Neb.	165.00
10.	M. S. Moats & Son	100.00
11.	Waltemeyer Bros., Melbourne, Iowa	97.50
12.	C. H. Mead, Cozad, Neb.	80.00
13.	Thomas Vannice, Russell, Ia.	80.00
14.	Lester Vannice, Russell, Ia.	62.50
15.	W. A. Fells, Cambridge, Ill.	100.00
16.	W. B. King, Russell, Iowa	53.00
17.	J. R. Richardson, Lamoni, Ia.	40.00
18.	Elmer Spiker, Chariton, Iowa	69.00
21.	M. S. Pratt, Fredericka, Iowa	51.00
22.	P. D. Sweninger, Chariton, Ia.	52.00
23.	W. A. Fells	52.50
24.	Elmer Spiker	47.00
25.	Elmer Spiker	49.00
26.	J. E. Spiker, Chariton, Iowa	45.00
27.	L. A. Grimes	60.00
29.	W. R. Shaw & Son, Mellington, Ill.	41.00
32.	Robert Hairsine, Missouri Valley, Iowa	83.00
33.	F. A. Limmerman, Creston, Ill.	55.00
35.	Swan & Ellis, Indianola, Iowa	105.00
36.	O. R. Bellows, Fairmont, Neb.	55.00
37.	T. O. Mack, Lucas, Iowa	45.00
38.	T. O. Mack	46.00
39.	T. O. Mack	49.00
40.	Thomas Vannice	60.00
41.	P. D. Sweniker	40.00
42.	S. W. Swanson, Stanton, Iowa	63.00
44.	Thomas Vannice	46.00

The Swan & Ellis Duroc Sale.

The first public sale of Duroc Jerseys ever made by Swan & Ellis was held at Indianola, Iowa, on February 8th and was well attended. They made an average of $46 on everything, the top being a Col. Gano gilt that went to John Krebs at $108. It was a good sale, considering that it was the first they ever made. Colonel Kraschel cried the sale, assisted by Colonels Allen and Putnam. We list those selling for $35 and above:

1.	W. U. Young, Rushville, Ill.	$ 92
2.	C. F. Weil, Prole, Iowa	46
3.	John Krebs, Riverside, Iowa	108
4.	Miles Harkins, Pleasantville, Ia.	70
5.	H. Gilbert, Perry, Iowa	78
6.	G. P. Maynard, Indianola, Iowa	45
9.	A. D. Tufft, Indianola, Iowa	57
10.	J. S. Campbell, Ackworth, Iowa	41
11.	G. P. Maynard	41
12.	Theo. Foss, Sterling, Neb.	96
14.	Fred Swan, Missouri Valley, Ia.	53
19.	Geo. Davis & Son, Milford, Neb.	42
17.	N. H. Perry, Ackworth, Iowa	37
26.	F. F. Vannice, Russell, Iowa	41
27.	Wilson Burns, Indianola, Iowa	35
25.	Ed Sheehy, Prole, Iowa	41
30.	Wilson Burns	40
31.	Fred Post, Russell, Iowa	36
33.	J. W. Zurley, Pleasanton, Iowa	47
34.	J. W. Zurley	36
35.	John H. Cash, Prole, Iowa	80
36.	W. M. Sells, Indianola, Iowa	52
37.	W. M. Sells	44
40.	C. F. Weil	66

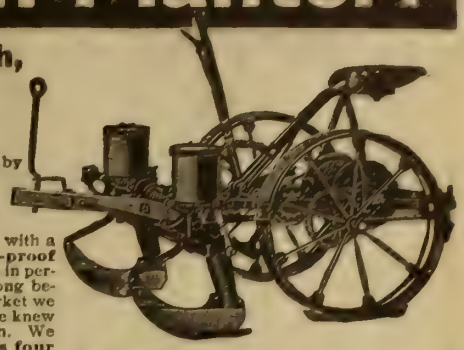
Gritters' Poland China Sale.

The following is a report handed us by E. Gritter, Hull, Iowa, of his sale of Poland China brood sows held on his farm January 22d. This was one of the good offerings that Mr. Gritters has made and that it was appreciated by the breeders of big-type Poland Chinas was shown by the large attendance from outside and the large number that were bought at good prices to be shipped away. The top of the sale was No. 12, which went to L. M. Neyens, Muscatine, Iowa, at $222.50. This gentleman also bought the herd boar, Big Surprise. The following is a list of sales at $50 and over: Bert Bouma, Hull, Iowa, No. 68, $60; C. F. Barrett, Doon, Iowa, No. 1, $146; Wm. Claerbout, Perkins, Iowa, No. 37, $66; John Dougherty, Rock Valley, Ia., No. 55, $75; John Den Beste, Maurice, Iowa, No. 39, $62.50; R. L. Doore, Dougherty, Iowa, No. 70, $82; T. A. Drake, Melvin, Ohio, No. 23, $77.50; H. E. DeVries, Hull, Iowa, No. 56, $60; No. 46, $60; Wm. Grooters, Boyden, Iowa, No. 49, $50; J. H. Jantzen, Hull, Iowa, No. 48, $80; No. 7, $82; T. H. Kirshinmann, Menno, S. D., No. 62, $100; H. T. Klitzke, Stewart, Minn., No. 26, $50; Henry Lauer, West Union, No. 21, $56; G. O. Moen, Leland, No. 58, $60; R. Mayhew, Sargent Bluffs, Iowa, No. 40, $76; L. M. Neyens, Muscatine, No. 60, $90; No. 59, $137.50; No. 12, $222.50; Ida Rogness, Hills, Minn., No. 67, $77.50; Arthur Rogness, Hills, Minn., $52.50; Wm. Smiley, Albana, Wis., No. 34, $62.50; Jas. Tancate, Edgerton, Minn., No. 64, $89; J. C. Thornburg, Greensburg, Ind., No. 42, $65; Harry Uitenbogaard, Archer, Iowa, No. 2, $100; No. 3, $85; W. F. Voris, Woodburn, Iowa, No. 5, $57.50; No. 13, $70; F. M. Zenor, Woolstock, Iowa, No. 10, $67.

Sixty-two head sold for an average of $62.25.

A Marvelous Corn Planter!

Put in Extra Kernels Where Soil Is Extra Rich, Thus Increasing Corn Crop Amazingly! No Stopping to Adjust Machine



Our patented Variable Device now makes it possible to **instantly** change the number of grains dropped. **No stopping or even slowing down!** Just shift a lever, **while riding**, and presto!—you plant as many grains to the hill as you choose.

Do you realize what this latest corn planter invention means?

It means that you can plant EACH HILL according to the richness of the soil. You can shoot in an extra kernel where soil is rich enough to make it grow. Where soil is thin or poor, you plant **less** grains to the hill and thus waste no seed corn.

Ten thousand farmers are already using this latest-model planter, some for the past three seasons. They say it's the most wonderful farm machine of the age. In all our 57 years' implement making we have never seen a more remarkable machine. It seems that this planter almost **thinks!**

From Edge to Flat Drop Without Emptying Hopper

And with the Rock Island No. 1 you don't even have to empty the hopper when changing from edge to flat drop or back again. Simply tilt hopper forward and slip in plates. You can do it in a moment. **We furnish all plates needed without extra charge.**

Straight Rows Regardless of Speed

No matter how fast or slow your team walks, or who drives—yourself, your hired man or your boy—**you'll always get straight, even rows.** Hills are in **perfect check.** All done by our patented Kick Back Valve.

Most Positive Clutch

Every Rock Island No. 1 is blessed with a **positive, yet absolutely trouble-proof** clutch. We spent thousands of dollars in perfecting the clutch feature **alone.** Long before this Planter was put on the market we **knew** we had a **positive** clutch. We knew we had a **TROUBLE-PROOF** clutch. We knew we had a clutch that **outwears four ordinary** clutches. The **principle** of our Clutch is fully pictured and described in the catalog we will send you.

Built for Hard Service

Every piece and part of this Planter is **built right**—built of **best** materials—built by **experts** of widest experience. Every little **detail** has been perfected. We use a special flexible connection to front frame to insure even depth in planting and to prevent possibility of breakage on rough ground. The width is adjustable. Seat is adjustable. Discs or runners, as wanted. 30 or 36-inch wheels, concave, flat or open.

Yet with all these improvements and perfections, with all this added quality, the price is very reasonable. The machine much more than earns its cost in one season.

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Rock Island No. 1 Corn Planter

Corn Planter Book. And we will tell you where you can see the Rock Island No. 1 Planter. Then with your own knowledge and experience you can see why it's truly a **wonder** and a great **crop getter.**

Postal brings all information. Don't do a thing about buying any planter or even using your old one without learning all about the Rock Island No. 1.

FREE—We have just bought 6,000 additional copies of Professor Holden's famous book on corn growing. One copy is yours free if you write for it at once, and you should certainly know more about this planter. Write today.

ROCK ISLAND PLOW CO.

186A **Second Avenue** (121) **Rock Island, Ill.**

Rosenfeld's Poland China Sale.

As per advertisement in these columns Carl A. Rosenfeld held a public sale of Poland China hogs at Kelley, Iowa, February 3d. While Mr. Rosenfeld is new in the business of breeding Poland Chinas and practically unknown beyond his immediate neighborhood, he made such an excellent start with quality and size that his sale was a remarkable success. The entire offering sold at an average of $54.14. At the same time a number of Aberdeen Angus calves were sold and these also brought good figures. A list of the animals disposed of is as follows:

1.	Geo. Burkey, Sheldahl, Iowa	$ 70
2.	Frank Allen, Nevada, Iowa	55
3.	Joe Anderson, Sheldahl, Iowa	47
4.	Wm. Lentz, Ankeny, Iowa	59
5.	C. J. Biewin, Ames, Iowa	56
6.	O. C. Cramblit, Ames, Iowa	56
7.	Geo. Houge, Slater, Iowa	52
8.	M. J. Lundall, Boxholm, Iowa	48
9.	Geo. Houge	40
10.	H. S. Lowman, Kelley, Iowa	51
11.	Seward Berhow, Huxley, Iowa	60
12.	D. H. Jacobson, Gilbert Sta., Ia.	100
13.	Birkstrand Bros., Cambridge, Ia.	70
14.	C. Christensen, Story City, Iowa	70
15.	Joe Anderson	45
16.	Geo. Burkey	44
17.	M. E. Davis, Maxwell, Iowa	45
18.	Geo. Burkey	80
19.	C. Christensen	79
20.	Rob Lowman, Kelley, Iowa	42
21.	W. L. Wiley, Madrid, Iowa	58
22.	Geo. Houge, Slater, Iowa	70
23.	L. G. Rosenfeld, Kelley, Iowa	38
24.	L. J. Logg, Maxwell, Iowa	52
25.	W. L. Wiley	48
26.	H. S. Lowman	49
27.	John Snyder, Ames, Iowa	54
28.	S. S. Kooser, Ames, Iowa	51
29.	Wm. Lentz	54
30.	John Snyder	50
31.	S. S. Kooser	41
32.	Roy Lowman, Ames, Iowa	50
33.	Nels Ihle, Slater, Iowa	59
34.	Kallem Bros., Ellsworth, Iowa	43
35.	H. S. Lowman	41
36.	J. L. Logg	32
Boar.	Bert Jewett, Ames, Iowa	37
Angus heifer calf.	Harry Maxwell, Ames, Iowa	125
Angus heifer calf.	Harry Maxwell	100
Angus heifer calf.	W. L. Wiley, Madrid, Iowa	92
Angus heifer calf.	W. L. Wiley	81
Bull calf.	W. L. Wiley	90

The Poland China sows sold for $1,949, or an average of $54.14, and the Aberdeen Angus calves sold for an average of $97.60.

The Breeders' Horse Sale.

Total receipts of $115,378 was the result of the four days' sale of horses at Bloomington, Ill., January 28th to 31st, under the management of C. W. Hurt and the Breeders' Sale Company. A total of about 350 head were sold during the four days of the auction. The first three days were given over to the representatives of the different draft breeds, the Percherons largely predominating. The closing day the majority of the offering was trotting-bred and road horses and Shetland ponies. The attendance was good all through the sale and good prices were obtained for the right kind of horses, while the sub-standard sort sold for every dollar they were worth. Buyers were present from Illinois, Indiana, Ohio, Michigan, Pennsylvania, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Colorado, South Dakota, North Dakota, Wyoming, Oregon and Washington.

J. Schmidt's Duroc Sale.

The sale of Duroc Jersey bred sows with which J. Schmidt, Everly, Iowa, wound up the circuit of sales of this breed in northern Iowa was the best one of the series. From the start the bidding was live and the men who were there realized the value of the sows that were up for sale. It was the first sale that Mr. Schmidt has ever held and the type of the sows and the shape that the whole offering was in showed him to be a good hog man and a breeder as well. The entire offering had about it the uniformity of type and size that marks good breeding and good management, and that the people who were at the sale appreciated this was shown by the amounts that they were willing to pay for them. The average of $50.90 was most encouraging and the evenness of the sale will show that there was but little difference in any of the hogs that were sold. The top of the sale on sows was $75, paid by C. Stephenson, Spirit Lake, Iowa, for the sow, Royal Luna 2d, a yearling by Royal Muncie and bred to the boar, Col. Tientsin. On gilts H. J. Luymes, Boyden, Iowa, topped the sale at $71 on a gilt by the same boar and bred to the big fall yearling, Col.'s Model by Col. Grant. The following is a list of the buyers of the hogs:

1.	Geo. Moeller, Everly, Iowa	$53
2.	H. H. Winterbore, Everly, Iowa	53
3.	Jacob Wunn, Everly, Iowa	70
4.	Thomas Peterson, Everly, Iowa	56
5.	Otto Klein, Alvord, Iowa	65
6.	C. Stephenson, Spirit Lake, Iowa	75
7.	Jacob Wunn	60
8.	T. E. Bly, Brewster, Minn.	61
9.	L. Scharnberg, Everly, Iowa	58
10.	L. Scharnberg	50
11.	Herman Jordon, Everly, Iowa	58
12.	Jacob Johnson, Fostoria, Iowa	54
13.	Geo. Moeller	59
14.	Geo. Jessen, Everly, Iowa	47
15.	H. J. Luymes, Boyden, Iowa	45
16.	Thos. Peterson, Everly, Iowa	44
17.	John Lucht, Everly, Iowa	44
18.	A. A. Fena, Spencer, Iowa	51
19.	John Wieben, Everly, Iowa	46
20.	D. E. Peterson, Everly, Iowa	46
22.	John Lucht	46
23.	John Lucht	44
24.	Henry Bartels, Everly, Iowa	46
25.	D. E. Peterson	40
26.	H. J. Luymes, Boyden, Iowa	71
27.	Jacob Wunn	43
28.	Geo. Moeller	48
29.	Will Rose, Everly, Iowa	54
30.	John Lucht	41
31.	H. J. Luymes	58
32.	Will Rose	57
33.	Jacob Wunn	43
34.	John W. Lucht	42
35.	John W. Lucht	49
36.	Geo. Moeller	41
37.	Hinrichs Bros.	36
38.	Otto Klein	51
39.	John Lucht	43
40.	Otto Klein	51

SUMMARY.

40 head ——— $2,036; aver ——— $50.90

Fesenmeyer Averages $150.41.

One of the greatest Poland China sales of the year was made by Henry Fesenmeyer, Clarinda, Iowa, on February 6th, when he made an average of $150.40 on everything. The top sow of the sale was No. 3, a daughter of old Long King, bred to A Wonder, and she went to Stephen Brown at $280. The offering was good, the crowd was large and it was a great sale. Below we list those sold:

1.	Harry Nelson, Miami, Tex.	$252.50
2.	F. L. Rood, Clearfield, Iowa	175.00
3.	Stephen Brown, Shambaugh, Iowa	280.00
4.	J. A. Beaumaster, Elmo, Iowa	230.00
5.	J. B. Lawson, Clarinda, Iowa	180.00
6.	Ed Brinkhoff, Galva, Ill.	190.00
6½.	W. E. Zimmerman, Neola, Ia.	155.00
8.	Adam Ashbaker, Mt. Sterling, Ill.	135.00
9.	W. W. Carter, Jacksonville, Ill.	280.00
10.	A. Kuhl, Fifield, Iowa	200.00
11.	Pederson & Newcomb, Dunlap, Iowa	220.00
12.	Frank Roberts, Earlham, Iowa	175.00
13.	J. A. Beaumaster	180.00
14.	Frank Roberts	230.00
17.	E. E. Caverly, Toulon, Ill.	145.00
16.	C. M. Pederson, Dunlap, Iowa	127.50
15.	C. C. Wade, Perry, Ill.	142.50
18.	E. J. Ausperger, Pulaski, Iowa	110.00
19.	Frank Roberts	135.00
20.	Grant Jones, Davis City, Iowa	165.00
22.	Grant Jones	100.00
23.	E. S. Buffin, Leroy, Iowa	100.00
24.	W. W. Carter	190.00
25.	Frank Roberts	100.00
26.	Geo. Ruby, Lacey, Iowa	72.50
27.	Frank Roberts	140.00
30.	Allen Martin, Cooperstown, Ill.	100.00
31.	Joe Hemmy, Hill City, Kan.	97.50
32.	J. A. Beaumaster	107.50
33.	J. E. McCullough, Joy, Ill.	70.00
34.	G. H. Paul, Washington, Iowa	130.00
36.	J. A. Johnson, Clarinda, Iowa	95.00
37.	M. Fickert, Seward, Kan.	72.50
39.	Lee Dearth, Onarga, Ill.	92.50
40.	H. F. Adams, Castle, Ill.	125.00
41.	O. B. Hensel, Eddestein, Ill.	105.00

Grant Lynn's Duroc Sale.

Grant Lynn's sale of Duroc Jersey bred sows, held at his farm north of Spirit Lake, Iowa, on February 5th, brought out a good attendance of breeders, but the cold weather must be blamed for the comparatively light attendance of farmers from the immediate vicinity. The sale was held in the new sale pavilion, which was reasonably well filled when Colonel Mossman opened the sale. There was hardly the spirited bidding that one would expect from the class of Durocs which Mr. Lynn is breeding. That he is making steady progress in breeding was shown by the quality of the herd boars exhibited and the fall pigs driven into the ring before the sale as well as by the good sort of brood sows that have been retained for service in the herd. Prices ruled quite even throughout the sale, with a

top of $80, a number of the best things going to prominent breeders from Iowa, Minnesota and South Dakota. The following is a list of the sales at $40 and over:

1. J. Schmidt, Everly, Iowa----$80.00
2. O. E. Reno, Terrill, Iowa---- 58.00
3. A. J. De Young, Sheldon, Ia-- 48.00
4. E. A. Thompson, Terril, Ia-- 61.00
5. Frank Kraeger, Terril, Iowa-- 51.00
6. W. W. White, Spirit Lake, Ia- 51.00
7. Peter Jacobs, Kanaranzi, Minn. 60.00
8. O. E. Smith, Spirit Lake, Iowa 61.00
9. C. Stephenson, Spirit Lake, Ia. 46.00
10. Guy Panburn, Spirit Lake, Ia- 48.00
12. I. F. Clark, Terrill, Iowa---- 41.00
13. T. E. Bly, Brewster, Minn--- 66.00
14. R. C. Veenker, George, Iowa-- 62.50
15. J. Schmidt ---------- 50.00
16. H. E. Huston, Iowa Falls, Ia-- 70.00
17. J. B. Thompson, Jackson, Minn. 64.00
22. J. H. Grady, Spirit Lake, Iowa 42.00
24. H. Arthur & Son, Spirit Lake, Iowa ---------- 42.00
25. R. M. Ward, Blakely, Minn--- 47.00
26. I. F. Clark---------- 42.50
27. J. B. Thompson---------- 52.00
31. B. C. Marts, Hampton, Iowa-- 60.00
32. P. S. Knudson, Vincent, Iowa-- 47.50
33. A. H. Moen, Inwood, Iowa---- 65.00
36. S. L. Weaver, Lake Park, Iowa 43.00
38. Steve Rubis, Terril, Iowa---- 40.00
39. Guy Pangburn ---------- 39.00

SUMMARY.

39 head --------$1,833; aver--------$47

Glasier's Second Poland Sale a Success.

The second sale of J. M. Glasier's Poland China bred sows, held this year at the fair grounds at Algona, Iowa, was very much of a success. The sale was snappy all through and the excellence of the offering is attested to by the fact that the forty head brought a total of $2,233, making an average of $55.82. The hogs went mostly to breeders from towns near Algona and in the northern part of the state. This herd will be missed from this section, as Mr. Glasier is moving to Minnesota, near St. James. The following is a list of the sales:

1. L. J. Allbright, Algona, Iowa----$73
2. E. S. Hays, Algona, Iowa---------- 70
3. C. E. Campbell, Algona, Iowa---- 64
4. Pat Durnin, Britt, Iowa---------- 51
5. M. W. Fandel, Whittemore, Iowa 66
6. J. F. McFadden, Britt, Iowa---- 67
7. E. S. Hays---------- 61
8. J. R. Ballard, Boone, Iowa------ 70
9. H. M. Steussy, Irvington, Iowa-- 60
10. C. C. Robinson, Algona, Iowa--- 76
11. L. R. Dutton, Algona, Iowa----- 67
12. F. L. Powell, Algona, Iowa----- 94
13. F. L. Powell---------- 67
14. R. O. Dryer, Lone Rock, Iowa--- 56
15. T. R. Cook, Algona, Iowa-------- 60
16. C. C. Robinson---------- 51
17. R. O. Dryer---------- 50
18. C. C. Robinson---------- 50
19. Emil Laabs, Lone Rock, Iowa--- 55
20. O. Radig, Lone Rock, Iowa------ 49
21. B. B. Hemstock, Nevada, Iowa--- 60
22. H. M. Steussy---------- 56
23. D. Fogarty, West Bend, Iowa---- 48
24. A. Radig---------- 43
26. T. M. & W. S. Billsborough, Fenton, Iowa ---------- 66
27. E. O. Sheets, Hutchins, Iowa---- 46
28. L. R. Dutton---------- 51
29. F. L. Powell---------- 50
30. H. Gettman, Ledyard, Iowa----- 49
31. H. M. Steussy---------- 50
34. J. H. Jensen, Fenton, Iowa------ 53
36. G. Lauster, Meservey, Iowa-----
40. R. L. Gilmore, Burt, Iowa-------- 55

Murray's Chester White Sale.

One of the greatest sales of Chester Whites ever made in the West was held by Chas. H. Murray, Friend, Neb., on February 7th. Buyers were present from all over Nebraska and many nearby states. The entire offering sold for an average of $49 per head and, while there were many bargains, yet it must be conceded a very nice sale. Mr. Murray has put forth a mighty effort to bring his herd up to the very highest possible point of excellence and we are glad to know that his efforts were appreciated. This was a great offering all the way through. Col. W. J. Thompson did the selling. Those selling for $40 or over are listed:

1. A. H. O'Neill, Ravenna, Neb----$100
2. Albert Lake, Hampton, Neb----- 64
3. Wm. Moody, Elwood, Neb------- 48
4. C. B. Thompson, Beatrice, Neb-- 50
6. Dean Dick, Valparaiso, Neb---- 41
7. Aug. Gesiking, Seward, Neb---- 65
8. Joe Davidson, Friend, Neb----- 42
9. C. H. Fleming, Kearney, Neb--- 42
12. Bert Cummins, Seward, Neb---- 40
13. Verne Ketchum, Shickley, Neb- 45
14. N. D. Mysenberg, David City, Neb. ---------- 49
16. W. R. Ransdell, Kearney, Neb-- 45
17. W. W. Spencer, Mankato, Kan-- 43
18. N. D. Mikenberg---------- 47
19. C. B. Thompson---------- 49
20. W. W. Spencer---------- 50
21. Albert Lake ---------- 40
22. John Simmons, Friend, Neb----- 50
23. John Edmunds, Princeton, Neb- 42
26. B. Frank, Elmwood, Neb-------- 48
27. Bert Cummins ---------- 55
30. Wm. Buehler, Sterling, Neb---- 49
31. E. Youngberg, Essex, Iowa------ 51
32. J. W. McNalley, Marcus, Iowa--- 40
33. N. D. Mysenberg ---------- 41
34. Jos. Treaher, Pauline, Neb------ 50
36. W. R. Ranswell ---------- 41
37. Henry Murr, Touganoxie, Kan-- 51
38. N. D. Mysenberg ---------- 58
39. Chas. W. Crosier, Juniata, Neb-- 91
40. N. D. Mysenberg ---------- 42

Veak's Duroc Jersey Sale.

The Duroc Jersey sale of C. E. Veak, at Essex, Iowa, February 4th, brought out a good crowd of breeders and farmers and he sold forty head at an average of $43. There were no high prices paid, but it was an even range of prices from beginning to end. Colonels Kraschel and Reppert cried the sale, assisted by H. S. Allen in the ring. Below we list those selling for $35 and above:

1. L. A. Mooney, Mazon, Ill-----$43.00
2. Wm. Walkinshaw, Griswold, Iowa ---------- 40.00
3. Frank Racine, Shenandoah, Ia. 41.00
7. Roy Shotwell, Shenandoah, Ia-- 50.00
8. Strong & Winn, Orient, Iowa-- 56.00
9. Waltemeyer Bros., Melbourne, Iowa ---------- 48.00
10. C. O. Peterson, Essex, Iowa--- 37.00
13. C. A. Smith, Shenandoah, Iowa 41.00
14. M. I. Mouser, Red Oak, Iowa-- 38.00
15. Wm. Walkinshaw ---------- 44.00
16. M. I. Mouser---------- 47.50
17. W. S. Crane & Son, Shenandoah, Iowa ---------- 62.00
18. Clyde Lingo, Essex, Iowa----- 41.00
19. Frank Racine ---------- 48.00
20. John Shoberg, Essex, Iowa---- 38.00
21. M. I. Mouser---------- 46.00
22. Bert McClintock, Essex, Iowa- 40.00
23. Sam Eakle, Prophetstown, Ill- 68.00
24. L. Seebloom, Essex, Iowa------ 50.00
25. C. A. Smith---------- 41.00
26. Wm. Walkinshaw ---------- 39.00
27. Joe Shoeberg ---------- 41.00
28. Day & Welsh, Villisca, Iowa--- 53.00
29. W. R. Crow, Hutchinson, Kan-- 70.00
31. A. O. Barker, Riverton, Iowa-- 43.00
32. E. L. Gudgell, Shenandoah, Ia- 43.00
35. M. I. Mouser---------- 38.00

Davis' Closing-Out Sale.

E. W. Davis, Glenwood, Mo., dispersed his herd of Duroc Jerseys at public auction on February 7th. Model Queen, the noted show and breeding sow, topped the sale at $325 to L. Koenig, Sullivan, Kan. J. T. Higgins secured the grand champion sow, Chief's Maid, at $175. Colonel Boyd got a great Ohio Chief sow in Ohio Queen at $185. Colonels Kraschel, Reppert and Allen sold the offering in a satisfactory manner. Those selling for $50 and above are listed below:

2. W. M. Putman, Tecumseh, Neb. ----------$142.50
4. L. Koenig, Sullivan, Kan------ 325.00
5. J. T. Higgins, Abilene, Kan-- 175.00
6. Colonel Boyd, Centralia, Mo- 185.00
7. Mr. Henningcamp, Hickman, Neb. ---------- 100.00
8. C. D. Caldwell, Milton, Iowa-- 55.00
9. Ed Friez, Nora Springs, Ia--- 127.50
10. A. White, Jr., Almira, Mo----- 82.50
12. W. A. Bell, Milton, Iowa------ 64.00
13. G. Henselly, Queen City, Mo- 72.00
17. E. C. Hastie, Kalona, Iowa--- 71.00
30. John Merritt, Milton, Iowa--- 50.00
32. A. S. Sneeden, Davis City, Ia. 52.00
37. A. S. Sneeden---------- 60.00
42. C. O. Anderson, Manhattan, Kan. ---------- 65.00
47. L. Koenig ---------- 60.00

SUMMARY.

36 head -------$2,463; aver--------$68.50

The Fain-Dickey Duroc Jersey Sale.

The sale of Duroc Jersey bred sows that the above gentlemen held at Emmetsburg, Iowa, February 4th, was a well-attended event and was well conducted from the standpoint of rapid selling by the auctioneer in charge, Colonel Mossman. There were no sensational prices secured, but the average was pretty even all through the sale and the attendance of both breeders and farmers showed that the work these two breeders are doing is coming to be appreciated by those who are after the good things in this breed. Both Mr. Dickey and Mr. Fain put up a good class of sows and there were many good bargains sent through the ring on the day of this sale. The feature of the offering were the big-boned gilts by Col.'s King, owned by Mr. Dickey, and the Fain's Select gilts bred to the excellent young boar, Model Top Jr., consigned by Mr. Fain. His consignment averaged $51.80. The following is a list of those that sold for $40 or more:

DICKEY'S CONSIGNMENT.

1. Ed Burt, Whittemore, Iowa---$47.50
2. J. A. Henderson, Emmetsburg, Iowa ---------- 40.00
3. M. S. Maxon, Curley, Iowa--- 46.00
4. Walter Fox, Britt, Iowa------ 49.00
5. S. T. Scott, Emmetsburg, Iowa 43.00
6. Matt Gappa, Emmetsburg, Ia- 40.00
7. H. J. Sulley---------- 47.00
8. P. S. Knudson, Vincent, Iowa-- 40.00
9. L. Van Vleck, Ruthven, Iowa- 50.00
12. H. J. Sulley---------- 44.00
13. Matt Gappa ---------- 41.00
14. E. J. Scott---------- 51.00
15. E. N. Loebig, Wesley, Iowa--- 49.00
16. L. Van Vleck---------- 43.00
20. O. E. Reno, Terril, Iowa------ 44.00
23. Peter Johnson, Dickens, Iowa-- 40.00
24. J. A. Morrison, Grundy Center, Iowa ---------- 42.50
27. E. J. Scott---------- 49.00
30. A. J. De Young, Sheldon, Iowa 45.00

FAIN'S CONSIGNMENT.

1. Antone Gates, Wesley, Iowa-- 52.00
2. F. H. Dickey, Emmetsburg, Ia- 47.50
3. J. Schmidt, Everly, Iowa------ 57.50
5. Mike Gates, Wesley, Iowa------ 57.00
6. A. J. De Young---------- 61.00
7. Chas. Loebig, Wesley, Iowa--- 47.50
8. Ben Studer, Wesley, Iowa----- 59.00
10. F. H. Dickey---------- 71.00
11. L. Van Vleck---------- 53.00
12. P. G. Paulsen, Estherville, Ia- 51.00
16. P. G. Paulsen---------- 63.00
18. M. Blumenschingle, New London, Iowa ---------- 56.00
19. P. S. Knudson---------- 57.00
20. Sam Oldhausen, Sutherland, Ia. 55.00
21. S. J. A. Morrison---------- 53.00
23. Sam Oldhausen ---------- 40.00

SUMMARY.

56 head ------$2,557.50; aver-----$46.03

Weaver's Duroc Jersey Sale.

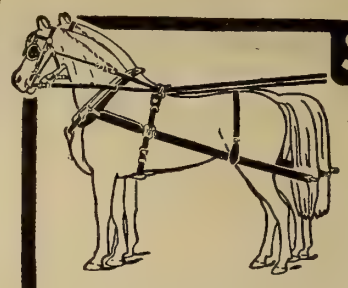
The sale of bred Duroc Jersey sows that was held by S. C. Weaver at his farm near Lake Park, Iowa, February 6th, was not as well attended as the class of the sows merited. They were thin in flesh, but there were some real bargains among them. The most of the sows went to local buyers, as would naturally be expected from a first sale, but there were several that were taken by breeders who had been attending the rest of this circuit of sales in the northern part of the state. The top of the sale was only $56, paid by Hinrichs Bros., Humboldt, Iowa, for the sow, Crimson Rose, a two year old bred to the big boar that the Mr. Weaver, of Weaver & Fountain, has had in his herd for the past two seasons. This boar is a good big one and his pigs should have sold for higher prices, but the crowd that day was not disposed to pay more than the lowest money. Mr. Weaver has retained a good lot of sows for his next season's crop of pigs and we predict that his offering next year will be one of the good ones of the year. The following is a list of the sows that sold, their prices and buyers:

1. J. Schmidt, Everly, Iowa-------$55
2. H. S. Fain, Emmetsburg, Iowa--- 50
3. H. H. Rowe, Lake Park, Iowa--- 31
4. Hinrichs Bros., Humboldt, Iowa-- 56
5. H. H. Rowe---------- 33
6. I. W. Spurgeon, Lake Park, Iowa 50
8. P. Peeper, Lake Park, Iowa----- 42
9. F. H. Dickey, Emmetsburg, Iowa- 49
10. T. E. Bly, Brewster, Minn------ 38
11. H. H. Rowe---------- 33
12. C. H. Gibson, Lake Park, Iowa--- 36
13. Wm. Glade, Lake Park, Iowa'---- 39
14. C. C. Glade, Lake Park, Iowa---- 45
16. W. S. Hunt, Ocheyedan, Iowa---- 42
19. F. S. Meyers, Lake Park, Iowa--- 38
22. Guy Pangburn, Spirit Lake, Iowa 26
23. A. Packer, Lake Park, Iowa----- 36
25. C. C. Glade---------- 39
30. C. E. Weaver, Lake Park, Iowa--- 37
36. I. W. Spurgeon---------- 46

Kreischer's Poland China Sale.

E. W. Kreischer, Mt. Vernon, Iowa, held his second annual sale of Poland China sows on February 7th and it was very successful. It was a high-class offering, was the subject of much favorable comment among breeders present and the list of sales that follows will show that breeders appreciated the great lot of sows Mr. Kreischer offered in this sale. Colonels Cooper, Burge and Martin sold the offering and did excellent work. A list of sales follows:

1. John I. Dripps, Mt. Vernon, Iowa ----------$115.00
2. John Hynd, Moline, Ill------- 80.00
3. S. W. Wolf, Mt. Vernon, Iowa 95.00
4. J. M. Nesbit, Aledo, Ill------ 115.00
5. S. W. Wolf---------- 112.50
7. John I. Dripps---------- 100.00
8. A. A. Berry---------- 107.50
9. J. F. Miller, Tipton, Iowa---- 75.00
10. W. G. Bell, Nora Springs, Ia- 85.00
11. S. W. Wolf---------- 85.00
12. John Hynd---------- 52.50
13. Fred Kesler, Solon, Iowa----- 100.00
14. Fred Kesler ---------- 102.50
15. Joe Schisky, Cedar Rapids, Ia. 82.50
16. J. F. Miller, Tipton, Iowa---- 65.00
17. S. W. Wolf---------- 82.50
18. S. W. Wolf---------- 67.50
19. J. M. Nesbit---------- 90.00
20. A. A. Berry---------- 77.50
21. John Kleinick, Columbus Jct., Iowa ---------- 65.00
22. J. L. Adams, Mt. Vernon, Ia. 57.50
26. S. W. Wolf---------- 107.50
27. S. W. Wolf---------- 67.50
28. Bowman Bros., Coal Valley, Ill. ---------- 62.50
29. E. J. Zoebel, Mt. Vernon, Iowa 50.00
31. S. W. Wolf---------- 95.00
32. J. L. Adams---------- 50.00
33. J. T. Waters, Tipton, Iowa---- 60.00
34. John Kehoe, Hopkinton, Iowa- 75.00
35. A. A. Berry---------- 67.50
36. J. Hynd ---------- 62.50
37. John Hynd ---------- 82.50
38. A. A. Berry---------- 100.00
39. H. Kehoe, Hopkinton, Iowa---- 75.00
40. J. F. Miller---------- 60.00
41. A. R. Berry---------- 62.50
42. W. T. Kehoe---------- 70.00
43. Joe Supple, Coggen, Iowa----- 60.00
44. L. Stinger, Mt. Vernon, Iowa 65.00
45. C. A. McCormick, Mechanicsville, Iowa ---------- 67.50
46. J. F. Miller---------- 75.00
47. W. F. Kehoe---------- 75.00
48. J. N. West, Mt. Vernon, Iowa 72.50
49. A. A. Berry---------- 52.50



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WEDDING BELLS!!

"Let Them Ring for You at Waterloo"

—GALLOWAY

This is an offer to any young couple who is contemplating marriage. If you will come to the Galloway Agricultural Club in Waterloo and have the knot tied here, I will pay for the license, furnish the minister, flowers, music and a fine wedding dinner—all free! And listen—I'll also give the bride and groom a handsome present.

Let Me Entertain You

I want Farmers and their Families to visit me here at Waterloo. Come on over while you've got time for a vacation. I'll take care of you—free—at our splendid $60,000 Agricultural Club, planned and built for my Farmer Friends. Plenty to eat, music, good company—everything to make you enjoy life while here. Last week over 600 Farmers visited my big chain of factories. Many of them bought Engines, Spreaders, Cream Separators, etc., at a big saving, direct at factory prices. No obligation to buy, though. Just come and spend a day or a week, if you like, as my guest. I'll give you the time of your life.

Special 5% Discount!

If you cut out this "Ad" and bring it with you, I will give you a special 5% discount on your purchases while here. This will help pay your railroad fare. And remember, your expenses are paid while in Waterloo.

If You Can't Make the Trip Right Now, Write Me When to Expect You

WILLIAM GALLOWAY, Pres.

The William Galloway Company

10D Galloway Station, Waterloo, Iowa (282)

Legislation That Farmers Want.

A FEW weeks ago the Missouri State Board of Agriculture submitted the following question to more than 500 farmers, representing 114 counties in the state: "What new legislation along agricultural lines would you suggest, or what present laws, in which the farmer, dairyman, stockman and other country people are most interested, need to be amended or repealed?"

More than 400 replies were received. Road legislation comes in for the largest consideration. Of the 400 replies, eighty deal with this problem. This is three times as many as any other single subject. Evidently, if the farmers of Missouri have their way, there will be some changes in road legislation. The suggestions reflect in large measure the growth of the good road sentiment in the state. They are not complaints from chronic fault finders, but are, in the main, the opinions of men who actually want to see better roads. In many communities, the present road law, as carried out, seems to have been a failure. In other places excellent results have followed. Yet, strange to say, there are but few who have a good word for the law as it now stands. One opinion shared in by many is that farmers who keep the roads along their farms graded up should be allowed something for this work. It is also surprising to note how large a number inclined to the opinion that land owners should be required to keep the roadway along their places free of weeds and brush; some even go so far as to say that this particular piece of road should be worked by the land owner. Some of the replies as to the road law follow:

Marion County—"Divide the county into districts. Hire a gang of men for each district and keep them at work all year, unless it is a month in winter, and even then they might be needed to shovel snow." Clark—"Rebate to the farmer his poll tax if he will use four-inch wagon tires on the public roads." Wayne—"Make more money available for country roads and have it applied under contract just as the railroads do." Franklin—"Repeal the present road law that has the road overseer appointed by the county court." Pulaski—"Give us a county road law that can be enforced and which will do justice to the poor class of farmers as well as to the rich." Wayne—"I would suggest that a law be enacted taxing every acre of land, say from five to twenty cents per acre, for the purpose of good roads." Bates—"A good road law compelling farmers to keep up the ordinary dirt roads along their land would solve the good roads problem. We need an arrangement whereby counties under township organization can secure their share of the permanent road fund by doing the same thing other counties do." Greene—"Build more macadamized roads." Daviess—"We need any sort of a law that will improve the public highway, so as to bring about the consolidatiton of rural schools." Lincoln—"We should have township assessment and more revenue for road improvement." Perry—"We must understand that in order to have better roads we must put up more money." Cass—"Give us a road law for the counties under township organization so that the township can bond itself to build rock roads. We have itself to build rock roads. We have township organization, but under this system we get less work done every year.

That the farmer is beginning to study the market end of farming, as well as the increase in production, is shown by many replies touching this subject. A Livingston county correspondent writes: "Since the farmers grow all the products, they should control the selling price. Let every farmer pay one mill on the dollar valuation of his farm and personal property to start a sinking fund for the purpose of buying the products of the renting class of farmers. The products would then be stored in elevators until the proper time to sell them. This would result in a fair price for corn, hay, wheat and other farm crops, and it would be a price that could be depended upon from year to year."

The need of legislation preventing the manipulation of market prices is suggested from Franklin county. A McDonald county man writes: "We need some law to do away with the middleman, such as the commission man and the drummers, so the consumer can buy direct from the producer." "We don't need legislation. We need organization by the farmer and for the farmer, especially for the purpose of selling farm products, fixing a uniform price and taking that out of the hands of speculators," writes a southern Missouri farmer. The need of some legislation that will afford protection for the producer and give to him a larger per cent of what the consumer pays is voiced by many. It is suggested that no wholesaler, who compels the retailer to sell at a price fixed by the wholesaler, should be allowed to do business in the state.

Some system of legislation, such as the land loan plan, is urged from practically every part of the state. There seems to be a general belief that lower interest rates would help the farmer more than would any other one thing. It is believed that this would go a long way toward solving the problem of how to keep the young man on the farm. Some suggestions on this subject follow: Ozark county—"Give us a law that would prevent bankers and others from charging legal interest, which they are now indirectly doing by charging a per cent payable in advance." Holt—"Get some legislation that will let the farmer have cheaper money. He must have it if he makes farming profitable with the increased cost of the land." Nodaway—"We should have some law whereby the farmer who really desires it can borrow money from the government for the purpose of buying himself a farm. This would make of the farmers a people who live on and own their own homes instead of being a renting class, as is now the case in many communities." Marion—"We want cheaper money by a co-operative plan on farm land." Douglas—"We need a law forbidding bankers from charging 8 per cent interest, and in addition a commission."

There seems to be a growing demand for legislation to encourage the employment of county agricultural advisers. On the other hand, some are of the opinion that the present law under which Pettis and Cape Girardeau counties are now working is sufficient. Some replies on this subject are as follows: "Gentry—"I think it would be well to have a man in each county to instruct us farmers in our work, especially in orcharding." Dade—"We need a specialist in each county to advise with us as to the management of our farms and as to the disposition of our farm products." Clay—"We should have state aid for an agricultural expert in each county." Ralls—"If we had additional provisions made for an agricultural farm or an experiment station in each county it would do more for the farmers than anything I can think of." Clinton—"We want an expert in agriculture in each county and at the expense of the state." Johnson—"I think there should be some provision made for a county farm adviser in each county in the state, such as they have in Pettis county. Let's have some kind of a law to that effect."

That the rural school of today is not what the farmers want and that there is a real demand for something better is shown by many comments on this subject. Some replies are as follows: Pike—"We need a better school system, and must have it if farming succeeds in the long run." Saline—"The frequent changing of books and the quitting of children at the eighth grade are hard on poor country people." Atchison—"I would suggest that the school law be amended so that a child in the country could attend the nearest school, whether in the same district or not." Gentry—"The children in rural districts, when they have passed the eighth grade, must if they wish to take a higher course, go to some town or city school and there lose their desire for country life and often form bad habits. What we need is the centralized school or consolidation of districts. Then these children would have the chance of continuing their school work after passing the eighth grade and would remain at home instead of going away and becoming attached to city life." Macon—"It should be compulsory to instruct school children in the growing of farm products, the operation of farm machinery and the value of grain and forage as feeds. We need a general campaign for real country education." Osage—"We should have rural agricultural high schools and continuation schools in every township." Scotland—"One need is the immediate centralization of rural schools." Moniteau—"The distribution of public school moneys on the average attendance instead of local enumeration is wrong, as it gives the towns and cities an advantage over the rural districts. For this reason they would all show a greater attendance in proportion to enumeration."

WHOM ARE WE WORKING FOR?

Are we working our farms for self or for self and the boys?

Sometimes it seems as if many of our farmers carry on their farm operations solely with a view to making all they possibly can for themselves, forgetful of the fact that there will be men here tomorrow, men who will have to live on the farms they are robbing of their very best and who must somehow or other get their living out of that very soil.

Just now I am thinking of a man who says he is working his farm for all it is worth—to him—going on the plan that nobody will thank him if he keeps his soil fertility up by growing stock and plowing under costly clovers and other green crops. Men who rent and coming generations, anyway, will have to take care of themselves. He is in for what he can make now, today.

Another farmer comes to my mind while I write. This man says: Somebody will be here after I am gone. It may be my boys, it may be somebody else's boys. I claim to think well of my fellow men. I am trying to do what I can to make the world better. I do not believe I can do it anymore directly than to pass my farm on in the best possible shape. I can get all the money I need and still keep my land in good heart. Why should I care for more? I would just as soon give the man who comes after me a good farm as to let him have a few thousand dollars I have earned and taken from the soil and passed on to him."

That I consider the view of a real man, a man who is not so selfish that he cannot and will not recognize his obligation to the future. That man will be, he is, a real benefactor.

"But why should I work myself to death to keep up a little land for some man I never saw and care nothing about?"

No, don't do that. You need not; it would not be wise to do it. Just work on steadily, possessing your soul in patience, doing your work the best you can according to your strength and nobody could ask more of you. You will find your greatest happiness that way. The honest effort you put out will surely bring you all you want to make you comfortable and happy. You will live better and live longer than you would, if you made money getting the sole aim and object of your life.

Subscriber.

"Kuhn California Project"

In the Sacramento Valley

The canal, drainage and road construction completed, these lands are now being sold in small subdivisions. The soil, a deep alluvial silt loam, the best in the valley.

RAILROAD PASSES THROUGH THE LAND

Towns, Schools and Churches Near At Hand

CROPS—All kinds of fruits (including oranges and lemons); vegetables, seeds, berries, alfalfa, cattle, hogs and chickens.

WATER SUPPLY—Unlimited. Water delivered to boundary of every 40 acre tract. Canal and drainage system perfect.

TRANSPORTATION—Both by rail and river to the great metropolitan centers.

LAND PRICES—Low, and terms of payment easy.

If you want to secure a home in California, where climate, soil and water combine to work for you overtime, fill in this advertisement, and mail to us for full particulars.

KUHN IRRIGATED LAND CO.
Dept. K 137 S. La Salle St. Chicago Ill.

Name .....
Address .....

Check off on this list what you are particularly interested in:
Citrus Fruits, Deciduous Fruits, Dairying, Hogs, Poultry, Nuts, General Farming, Alfalfa, Berries, Bees, Garden Truck.

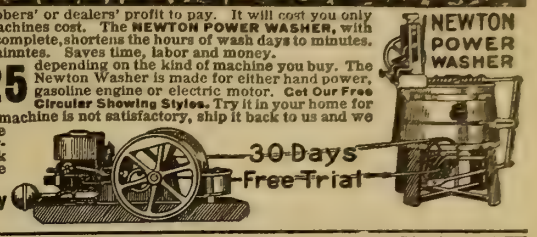
TEN YEARLY PAYMENTS

The World's Greatest Power Washer

Direct from Our Factory to You. No jobbers' or dealers' profit to pay. It will cost you only a little more than half of what inferior machines cost. The NEWTON POWER WASHER, with reversible five-year guaranteed wringer complete, shortens the hours of wash days to minutes. Dirtiest clothes washed in six to fifteen minutes. Saves time, labor and money.

Save $3.50 to $25 depending on the kind of machine you buy. The Newton Washer is made for either hand power, gasoline engine or electric motor. Get Our Free Circular Showing Styles. Try it in your home for thirty days, you to be sole judge. If the machine is not satisfactory, ship it back to us and we will pay the freight both ways and give your money back with six per cent interest. A postal from you will bring quick proof to you of our reliability and our free circular.

Newton Washing Machine Company
Newton, Iowa.



LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

FARM SEEDS Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, Seed Corn, Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. Large illustrated catalog of great value to farmers free. Mention this paper. Iowa Seed Co., Dept. D1 Des Moines, Iowa.

SEED CORN ON APPROVAL

PURE-BRED Reid's Yellow Dent seed corn, early picked and rack dried, grown from prize-winning seed, germination perfect, shown by actual dirt tests. Satisfaction guaranteed or money refunded. Ear corn crated, $3.00. Shelled and graded, $2.50. Send for circular. Address

SMITH BROTHERS, SAN JOSE, ILLINOIS

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

FOR SALE—Best equipped Billiard Hall and Cigar Store in city of fifty thousand, doing fine business, big transient trade; or will sell half interest to responsible party to manage same at good salary. Other business interests demand attention. Address X Adv. Mgr. The Times, Davenport, Iowa.

Pure-bred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
Send for FREE Illustrated Booklets
Holstein-Friesian Asso., 113 American Bldg., Brattleboro, Vt.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

Successful Renters who will move for prospect of $2,400 annually besides half crop (½ crop) write E. A. Wadsworth, Grinnell, Iowa.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Feb. 27, J. V. Arney, Leon, Iowa.
Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Feb. 25, R. M. Parker, Midland City, Ill.
Mar. 5, A. L. Meith, Cairo, Neb.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 1, D. R. Hanna, Chicago, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Feb. 26, W. T. McCray, Kentland, Ind.
Feb. 27, T. E. McCarty, Princeville, Ill.
Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 6, J. A. Shade, Kingsley, Iowa.
Mar. 20, A. A. Hager, Avoca, Iowa.
Mar. 21, R. P. Clark, Brayton, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Mar. 12, L. H. Luckhardt, Tarkio, Mo.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Jacks and Jennets.

Feb. 27, W. T. Trotter, Mt. Ayr, Iowa.
Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Percherons, Shires and High Grades.

Mar. 8, Breeders' second annual sale, Malvern Iowa, Fred Durbin, Mgr.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Poland China Swine.

Feb. 24, J. M. Sheehan, Stuart, Iowa.
Feb. 25, W. M. Shrader & Co., Stuart, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa.
Feb. 26, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 26, Wm. Lentz, Ankeny, Iowa.
Feb. 26, L. R. McClarnon, Braddyville, Iowa (night sale).
Feb. 28, C. M. Pederson, Dunlap, Iowa.
Mar. 5, A. L. Meith, Cairo, Neb.
Mar. 8, J. H. Healy, Manilla, Iowa.
Mar. 11, M. F. O'Hern, Barnum, Iowa.

Duroc Jersey Swine.

Feb. 24, Madison Spencer, Audubon, Ia.
Feb. 24, Jess W. Andrews, West Point, Ind., sale at La Fayette, Ind.
Feb. 28, E. S. Mayes, Jr., Springfield, Ky.
Mar. 3, John Truax & Son, Sycamore, Ohio.
Mar. 4, F. J. Rupert, Spencerville, O.
Mar. 21, Hunt & Weberg, Denison, Ia.

Chester White Swine.

Feb. 27, John F. Holst, Jr., Denison, Ia.

Hampshire Swine.

Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

W. W. Scholes, Onawa, Iowa, has Galloway bulls ten to twelve months old for sale. His advertisement appears in this issue.

Harry Hurless, Ogden, Iowa, offers some bred Chester White sows for sale at this time in his advertisement elsewhere in this issue.

Write E. H. Kahl, Buffalo Center, Ia., for his prices on the bred Chester White sows that he is offering in his advertisement in this issue.

In this issue U. G. Burton, Storm Lake, Iowa, starts his card announcing bred Duroc Jersey sows and gilts for sale. They are of good blood lines and are bred to a grandson of old Model Chief and to Lincoln Model 2d, the second-prize boar pig in the under six months' class at Sioux City last fall. Write for descriptions and prices on these. Address U. G. Burton, Storm Lake, Iowa.

In looking up a herd bull Short-horn breeders should remember the kind that J. C. Charlson, Leland, Iowa, is offering in his card in this issue.

Write to C. H. Porter, Eagle Grove, Iowa, for a list of the sows of his growthy Poland China breeding that he is advertising in this issue.

A. J. DeYoung, Sheldon, Iowa, has a few gilts left for those who may want something of the good kind that he handles. Write him for his prices.

The chances for buying the good sort of Clydesdale horses that James Pedley, Britt, Iowa, is advertising in this issue are not plentiful. Write him for his prices.

Ed Anderson, Alta, Iowa, can furnish some good Chester White bred sows to any who may want something of this kind this season. His card appears elsewhere.

Jacob Layland, Audubon, Iowa, has three French draft stallions that he is offering for sale to Homestead readers in an advertisement found elsewhere in this issue.

A. C. Orme, Nodaway, Iowa, advertises July and October Chester White boars for sale. He also has a few good gilts for sale. Write him for prices at once on these.

C. H. Drake, Hazleton, Iowa, makes an announcement in this issue of The Homestead that he must close out his entire herd of Short-horns. Read advertisement for more particulars.

Smith & Baumert, South English, Ia., have an imported Percheron stallion, six years old, and one home-bred four-year-old Percheron stallion for sale. Their advertisement appears in this issue.

J. C. Porter, Ogden, Iowa, always has some good Duroc Jerseys to sell and this year is no exception. Write him for his prices and get some descriptions of the sows that he is offering.

W. W. Neely, Greenfield, Iowa, is offering Partridge Wyandotte cockerels, Scotch Collie puppies and Mammoth Bronze turkey toms for sale in his advertisement in the poultry department of this paper.

V. W. Harris, Fairbury, Ill., directs attention in his advertisement elsewhere in this issue to the fact that he has a choice lot of imported Percheron stallions and mares in his barns and will make prices and terms satisfactory.

W. H. Barr, Villisca, Iowa, writing under recent date, says: "A field note in a recent issue of The Homestead sold the Polled Durham bulls which I had intended to sell at public sale. One of these went to John A. Patrick, Ute, Ia. My Poland China sows are in fine shape and prospects are good for a reasonable sale."

U. G. Davidson, Algona, Iowa, advises us that he has sold the two Duroc Jersey boars referred to in a late issue of this paper. One of these went to Myles Harkin, Pleasantville, Iowa, and the other to Wm. Runchey, West Bend, Iowa. The latter expects to fit his pig to show next fall and as he carries a good deal of Crimson Wonder blood he has an excellent chance of winning.

The advertisement of the Wragg Nursery Co. appears elsewhere. The catalog mentioned in the advertisement is a complete one describing many varieties of dependable apples, crab apples, pears, plums, cherries, peaches and a great number of small fruits and shrubberies. Wholesale prices are quoted in this book. Write for it to the Wragg Nursery Co., Des Moines, Iowa.

Farmers who contemplate a change of location in the spring will be interested in the advertisement of Hamilton & Crenshaw in this issue. These gentlemen have for sale good farm lands adapted to the production of wheat, clover, corn and blue grass. They sell this land at prices wich will make it profitable as an investment or as a permanent home. For further information address Hamilton & Crenshaw, Box 4, Fulton, Mo.

Farmers who want to buy the right kind of farm fences at the right price cannot go far wrong in selecting that made by the Coiled Spring Fence Co. and advertised elsewhere. This fence is strong and durable. It is made in varieties suitable for farm lawn or poultry yard. It is fully described in a catalog. Special prices also may be obtained by readers of this paper by writing for them to the Coiled Spring Fence Co., Winchester, Ind.

The interior construction of the De Laval cream separator is fully illustrated in the engraving to be found in the advertisement elsewhere in this paper. This engraving shows in particular the perfection of the oiling system and everybody knows that the manner in which any machine is oiled is one which has everything to do with its long life and effective work. Other facts concerning this separator may be learned from the De Laval dairy handbook. Obtain a copy of this by writing to the De Laval Separator Co., Chicago, Ill.

As will be noted in our list of dates claimed for live stock sales, J. A. Shade, Kingsley, Iowa, will put forward an offering of Hereford cattle on March 6th. His consignment will include fifty head. Mr. Shade advises us that this will be a Hereford show all of his own and that the twenty-five bulls will be the best he ever saw go into one sale. Two of them are eighteen months old and over. The remainder are from twelve to fourteen months. Each one is good enough in individuality and breeding to head the best herds of the breed. Fifteen head of cows will sell with calf at foot. Ten two-year-old heifers are also an extraordinarily good lot. Catalogs of this sale may be obtained by writing to J. A. Shade, Kingsley, Iowa.

On Saturday, February 15th, at Atlantic, Iowa, C. W. Humerick will make his annual public sale of fifty head of Poland China bred sows, and he has an offering that the breeders will all like. He is selling daughters of New Tecumseh, Big Jericho, Iowa Model, Smooth Wonder 2d, King Wonder, Victor Hadley and Big Buddy. The sale will be held right in town. M. T. White will represent The Homestead at the sale.

T. A. Gough, Bristow, Iowa, is advertising Scotch Collies for sale in his advertisement elsewhere. He writes: "The parents of the puppies I am offering for sale are from the best kennel of Collies that can be found. I paid as high as $50 for one of them. The pups will make great workers and I will guarantee them to give good satisfaction. I will furnish pedigrees with each pup eligible for registry in the American Kennel Club."

The advertisement of the Rockford Silverware Company appears in this issue. Some handsome new designs in tableware have been presented. These are the outcome of forty years' experience in the manufacture of silverware. Farmers will find that in the matter of knives, forks and spoons this ware is much better than is ordinarily purchased. It is handsomely illustrated and described in booklet "Exclusive Silverware." This book may be had free of cost by writing to the Rockford Silver Plate Co., 100 Wyman St., Rockford, Ill.

Breeders of Poland China hogs and, in fact, all live stock men will learn with regret that W. Z. Swallow, the veteran Poland China breeder, has been compelled by reason of ill health and the recent death of his wife to give up the business of swine raising. On March 6th he will make a public sale to include all his farm stock and fifty or sixty head of pure-bred Poland China hogs, with cattle, horses and other property. Additional facts will be given with reference to this sale in later issues of this paper. Any further information may be learned by writing to W. Z. Swallow, Waukee, Iowa.

H. J. Hess, the well-known breeder of Aberdeen Angus cattle and Shropshire sheep, Waterloo, Iowa, advises our readers in an advertisement elsewhere in this issue that he has now for sale a number of high-class bulls ranging in age from twelve to eighteen months. These bulls are of the popular Blackbird, Erica and Pride families and they possess the breed character and individual merit which have been the means of establishing the reputation of Mr. Hess as an unusually good breeder. No buyer need be disappointed in these animals. Reasonable prices will be quoted. Address inquiries to H. J. Hess, Waterloo, Iowa.

On March 21st, R. P. Clark, Brayton, Iowa, will make a public sale of about fifty head of Hereford cattle, including about twenty bulls. Among the latter will be Gay Donald 12th, a four-year-old son of Beau of Shadeland 31st and out of a dam by the 2,800-pound bull, Monarch of Shadeland 3d. Many of the young bulls and heifers will be sired by him and all the cows are in calf to him or will have calves at foot by him. Mr. Clark's sale follows the A. F. Hager sale at Avoca the day before and parties can come direct to his place. Drop Mr. Clark a postal and have him place your name on his list for a catalog.

In an advertisement elsewhere in this issue M. C. Cramer & Son, Monroe, Ia., state that they have for sale large-sized, growthy Duroc Jersey gilts. These are by Grand View Col. and their dams carried the blood of Golden Model and Model Keep On. They have been bred to Chief's Model 2d for March farrow. These gentlemen have also for sale August and September pigs by Cramer's Col. and Wonder's Crimson. Cramer & Son have for many years maintained a Duroc Jersey herd of more than ordinary excellence and the animals they now offer for sale are of the same desirable merit. See advertisement and for prices or additional descriptions write to M. C. Cramer & Son, Monroe, Iowa.

Strawberry planting time is now not far distant and those of our readers who are planning to plant strawberries this season should begin to investigate the merits of different varieties before ordering plants. J. L. Todd & Co. make a wonderfully liberal offer of 200 choice plants for $1; 100 of these are a new variety called Senator Dunlap, and the other 100 is made up of two separate and popular sorts. On orders of this sort a book of instructions is sent which gives complete information with respect to planting and care. The senior member of this firm is a strawberry specialist who has spent many years in this line of work and who has thousands of pleased customers all over the West. Send orders to J. L. Todd & Co., Route 3, Des Moines, Ia.

Henry Moll, Garner, Iowa, has a little announcement in this issue that must interest those who want to buy thoroughbred stock. The gentleman offers for sale one red roan yearling Scotch Short-horn bull, one eight-months-old Percheron filly of excellent breeding, one coming three-year-old bay French colt stallion and six very choice big-type Poland China gilts. The Short-horn bull is the son of Roan Lad 338981 and his dam traces to Imp. Butterfly 43d. The Percheron filly is by an imported sire, but three removals from Brilliant 3d, and the dam is also from imported stock. She is the making of a big and good animal. The Poland China gilts are sired by Black Victor, he the son of Lonergan's Black Victor. They are big, thrifty and in excellent condition, although not fat. They have been bred for May farrow. For additional information and prices write to Henry Moll, Garner, Iowa.

One of the classiest little books gotten out by any seed company is that which reaches us from the office of the G. D. Sutton Co., having places of business at Mason City and Geneseo, Ill. The Sutton book deals with corn alone. It describes the better varieties of corn that are best adapted to the conditions of our readers, and illustrates methods of harvesting, drying and sorting preparatory to shipment. The book contains also a large number of testimonials from patrons of the firm who have been pleased with their purchase. Copies of the book may be obtained without cost by writing the G. D. Sutton Co., Mason City or Geneseo, Ill.

Imported Belgian Mares.

Elsewhere in this issue Ed Boll, Jr., Scribner, Iowa, is offering a splendid lot of young Belgian stallions and some very high-class imported and home-bred Belgian mares for sale. He has a splendid span of mares that are great bargains to any man who wants Belgians.

McClarnon's Night Sale.

One of the attractive Poland China sales to be held this winter will be that of L. R. McClarnon at Braddyville, Ia., on the night of February 26th, a special train being ready to take them from the Pfander sale down to Braddyville. This is going to be some sale and will be an interesting sale to attend. Watch next week's issue for further particulars of the McClarnon sale and in the meantime write for a catalog and kindly mention this paper.

Fox Terrier Pups.

N. R. Rogers, Peru, Neb., one of the best known stockmen of the state, is offering for quick sale a number of extra choice fox terrier puppies. They are from the very best of breeding and the parent stock is great rat stock. Those of our readers who are bothered with rats will do well to order one of these puppies. They are priced well worth the money and one of these dogs will easily save their cost in a short time on the average farm. Mention this paper and address as above. See advertisement elsewhere in this issue.

Banks' Short-horn and Poland China Sale.

On February 18th, A. J. Banks, Montour, Iowa, will sell a high-class lot of Short-horn cattle and Poland China hogs at auction. In this offering Mr. Banks is listing some Short-horns and Poland Chinas that he would be glad to retain in his herd, but he wants to put in some attractions and is selling these good ones in order to induce the better breeders to attend this sale. The advertisement appears elsewhere in this issue.

The Frank White Holstein Sale.

Frank White, Hampton, Iowa, will hold his second annual sale of registered Holstein-Friesian cattle on February 19th and 20th, at which time he will sell 125 head of extra good cows and heifers. It will pay anyone interested in this great dairy breed of cattle to attend this sale, as some very attractive animals have been listed. A number of show cows and heifers will be sold and a large number of the offering descend from animals with extraordinary records as producers of milk and butter. Write for a catalog, mentioning The Homestead.

Galbraith & Son's Horse is Denver Champion.

At the recent Western Live Stock Show in Denver, Colo., the Clydesdale stallion, Royal Voucher, owned and exhibited by A. Galbraith & Son, De Kalb, Ill., won the championship of the show over all Clydesdales and Shires. This is good evidence of the class of horses handled by this well-known firm. They buy only the very best, their many years of experience making them especially well qualified to secure the class of horses best needed for the wants of the American farmers, and buyers will always find a desirable lot in their barns. See their advertisement elsewhere in this issue.

Trotter's Jack and Jennet Sale.

Those of our readers who want to buy a good jack or some choice jennets will be interested in the sale of W. T. Trotter at Mt. Ayr, Iowa, on February 27th. He is selling fifteen of the best jacks that have even been sold in the state of Iowa, together with fifteen choice jennets. He is selling one of the best mule jacks that has ever been used in the West. There are several others that are right up to this fellow. Mr. Trotter is regarded as being one of the best jack breeders today in the West and he is selling a great lot of jacks and jennets in this sale. Remember the sale will be held at Mt. Ayr, Iowa, on February 27th. When writing for catalog kindly mention The Homestead.

Choice Short-horn Bulls.

One of the best opportunities of the season presented the readers of The Homestead to secure Short-horn bulls of high quality is now made by L. Chestnut & Sons, Geneva, Neb. They are offering a number of young bulls, ready for hard service, and they are certainly an exceptional lot. They are all the get of the great young breeding bull, Royal Sovereign, a son of the great Golden Sovereign. We wish to say that Royal Sovereign is one of the very best Short-horn bulls in use in Nebraska today. He is big and smooth, nicely filled in all parts, being especially good over the crops and loin and well filled in the round. He certainly carries a wealth of flesh and comes of one of the best milking families of the Scotch cattle. Chestnut & Sons have always maintained an excellent herd of choice, beefy cows that were heavy milkers. They try to breed the real farmers' Short-horn and we must say that but few breeders breed as closely to the line. All the beef possible to obtain with great milk production is their aim. Those of our readers looking for this class of cattle will do well to write Chestnut & Sons at once. The bulls for sale constitute a

very choice offering and we know they the prices as low as such cattle should sell. Mention The Homestead when you write. See advertisement elsewhere.

Strawberry Planters, Take Notice.

In the recent fire which destroyed a large part of The Homestead printing plant the thirty-two-page catalog of J. L. Todd & Co., the strawberry growers, was destroyed. This has necessitated a delay in issuing the catalog and all patrons are requested to hold their orders until they can secure one of these handsome catalogs, which will be off the presses in ten days or two weeks and well worth waiting for. Send us your name and we will see that you get a catalog just as soon as they are printed. In the meantime we are still offering 200 choice strawberry plants for only $1, together with a book of instructions on how to plant and grow small fruits. Send in your orders and your requests for catalogs at once. Address J. L. Todd & Co., Des Moines, Iowa, R. 3.

Bred Sows for Sale.

Those of our readers who are wanting to buy some good sows at private treaty should write or go and see Wigstone Bros., Stanton, Iowa. They are offering a splendid lot of Poland China bred sows bred to their 1,057-pound boar, Chief Price Again 2d. One of these is a daughter of old A Wonder, a June yearling and a very fine sow. They also have a litter of fall sows by W.'s Wonder that will weigh 500 pounds or better and they are grand good sows. A January gilt by Big Jones 3d, out of Giantess B., is another good thing. In fact, they have a lot of good sows and it will pay Homestead readers to write these gentlemen or go and see these sows. Kindly mention The Homestead when corresponding with them.

The Marshalltown Percheron Sale.

H. C. Lowrey, Nevada, Iowa, and R. C. Dannen, Marshalltown, Iowa, will hold a combination sale of Percheron stallions and mares in Harmon's sale barn, Marshalltown, Iowa, on March 6th. Fifty head of high-class Percherons will be offered, thirty-eight of which are mares. The twelve stallions are all imported, with one exception, and were selected with the same care that these gentlemen would use in selecting a stallion for their own use. The mares are a high-class lot, nearly all imported, and their pedigrees have been inspected and passed on by the French and American governments. Part of the offering was shown in 1912 at Des Moines, Sioux City, Hamline and Huron and were good winners at those shows. The four-year-old stallion, Jambameau 82337 (83856), was a first-prize winner at the state fair of Minnesota, 1912. The offering is young, clean and in nice condition. Write these gentlemen for a catalog, mentioning The Homestead, and make your arrangements to attend the sale. The advertisement appears elsewhere in this issue of The Homestead.

The Berry Seed Book.

This office is just in receipt of the eighteenth annual catalog and seed book of the A. A. Berry Seed Co. This is a book which, while it contains practically all information and descriptions of farm and garden seeds that anyone may require, gives that information in a condensed form that makes it easily found and gives important facts only. The illustrations which it contains are just as instructive as the reading matter. There are two pictures of seed corn, one showing corn which has been graded and which has all the promise that any seed could have, while the other shows defective grains that should not be planted and that are a dead loss for their planter. For eighteen years A. A. Berry has been catering to the wants of the western farmers and gardeners. He has built up a business by use of the utmost caution in the selection of seeds and infinite care in getting them to the user in a vital condition. Farm seeds are also fully illustrated and described in the catalog. This department is an attractive one, containing as it does all the old-fashioned, hardy varieties, together with such newer ones as have proved their merit. This catalog may be obtained free of cost by writing to A. A. Berry Seed Co., Clarinda, Iowa. See the advertisement elsewhere.

Shrader & Co.'s Sow Sale.

On February 25th, at their farm between Stuart and Greenfield, Iowa, W M. Shrader & Co. will make a public sale of twenty-five head of Poland Chinas, including their herd boars and all their brood sows. In the herd boar line is that noted sire, Choice Look, one of the best of all the big-type breeding boars. Choice Look has bred some splendid things, both in the boar and sow line. He is the sire of the boar that topped the Mart Sheehan sale two years ago and he is the sire of the Sid Reed boar that was one of the most conspicuous winners at the Iowa State Fair last fall. This boar, Choice Look, is one of the best breeding big-type boars in the state and he will be sold for the high dollar in this sale. The young boar they are using is also a good one and they call him Big Improver. He is a son of Big Victor's Improver, out of Fancy Pride by Hadley's Expansion. He was one of the highest priced and best pigs sold last fall and he has an outcome to him. Most of the sows that will be in the sale will be sired by Choice Look and there are some wonderfully good ones. No. 1 of catalog is a daughter of Choice Look, out of the noted old sow, Lady Blackbird, and she is just an outstanding good sow and few can show a better one. They are selling three yearling sows that are out of the ordinary and these are Black Giantess 1st, Black Giantess 2d and Black Giantess 3d. These are out of Black Giantess and for length, depth and general all-around usefulness these sows are hard to beat. Lady Tecumseh is another good yearling sow. Sunflower Pride is a granddaughter of Big Tom and she will sell with a litter of nine pigs by her side sired by I Am Big Too. Also her fall litter of five boars and one gilt sired by I Am Big Too. There will be three good fall sows sired by Long Price, he by Guy's Price 2d, out of the famous old sow, Mayflower 4th. No. 2, a Choice Look yearling. He also one of the choice things in the sale. There will not be an old, worn-out sow in the sale. Old Choice Look weighed 920 pounds in just fair flesh, so you can get an idea of what the old boar is like. Write W. M. Shrader & Co., Stuart, Iowa, for catalog and kindly mention The Homestead. M. T. White will represent this paper at the sale.

Holst's Chester White Sale.

On February 27th, at Denison, Iowa, John F. Holst, Jr., will make his annual public sale of forty head of Chester White sows and he has selected the tops of his herd to go into this sale. Included will be nineteen head of yearling sows and three of these will be tried sows. There will also be four matured sows and the remainder will be his choicest spring gilts. Among the good matured sows he is selling is one daughter of Perry, a grandson of old Combination; another by Buster, also a Combination boar, and another by Young America, he by the great Teddy R. The latter sow is called May and she was bred by J. L. Barber and she is bred to Fancy Boy, a boar bred by L. C. Reese, and he in turn is a son of that noted boar, Keep On. The nineteen yearlings that he is selling in this sale are nearly all sired by this boar, Fancy Boy, and he has proven one of the best breeders he has ever used in his herd. The twenty gilts that he is selling are sired by Fancy Boy and Combination 3d and the entire offering is bred to Fancy Boy, Combination 3d and a boar called Ike. Mr. Holst has done a splendid business and a satisfactory business and his customers have all been satisfied. He has listed a splendid lot of good sows for the occasion and Chester White breeders will be interested in his sale. Write for a copy of his catalog and kindly mention The Homestead. C. C. Carlin will be the selling Blackbird of Arndale, one of his foundation Blackbird cows, and she is the dam of a great many of the Blackbirds he will offer. This cow was the dam of the top of his sale five years ago at $575, and she is the dam of eight head in this sale. Among these are some very excellent Blackbirds of the kind that the breeders all want. She is safe in calf again to Black Star 2d for an April calf. He is selling a nicely bred Blackcap in this sale and she should be a good attraction also. He will also offer some good Trojan Ericas as well as some of the other representative tribes. There will be about ten or twelve young bulls in the sale. Write J. V. Arney, Leon, Iowa, for a copy of his catalog and kindly mention The Homestead.

Prize-Winning Scotch Collies.

A great many stockmen will say that they do not care whether or not a dog is of prize-winning blood, so long as he will do good work about the farm or ranch. The writer agrees with them, but the fact is that the greatest per cent of the best workers are from the best winning blood. They have been bred for work, have had that tendency developed to a greater degree than the hogs of plainer breeding, and for that very reason are more valuable. When it comes to selling some stock it is also of importance that they be of some family that is known for some reason, and it looks to the writer like a good male or a pair of females from well-known breeding, breeding where the highest kind of intelligence has been developed, would be the right sort of stuff to buy and the price should be only a secondary consideration. A. A. Martin & Son, R. F. D. 4, Box 107, Lincoln, Neb., have some of that sort to offer. A great deal of the stuff is sired by the great breeding and show dog, Buckler by Glencroft Buckler by Southport Student. The dam of Buckler is

NEXT WEEK'S SALE PROGRAM

Monday, February 17	Duroc Jerseys, Bob Ewing, New Hampshire, Ohio.
Tuesday, February 18	Duroc Jerseys, Geo. Briggs & Sons, Clay Center, Neb. Duroc Jerseys, Chas. F. Sprague, Lima, Ohio. Chester Whites, Barr & Rae, Ames, Iowa. Short-horns, Barr & Rae, Ames, Iowa. Poland Chinas, James Cockerton, Whiting, Iowa. Poland Chinas, G. J. Bloemendaal and Korver Bros Alton, Iowa.
Wednesday, February 19	Poland Chinas, C. C. Polly, Whiting, Iowa. Holstein-Friesians, Frank White, Hampton, Iowa. Duroc Jerseys, S. J. Miller, Lima, Ohio. Duroc Jerseys, Dr. Herr, Lima, Ohio. Poland Chinas, Peter Mouw, Orange City, Iowa. Duroc Jerseys, Gilbert Van Patten & Son, Sutton, Neb.
Thursday, February, 20	Percherons, Percy Baird, Sec., Lincoln, Neb. Poland Chinas, Ruebel Bros., Marathon, Iowa. Duroc Jerseys, J. W. Storm, Seville, Ohio. Holstein-Friesians, Frank White, Hampton, Iowa.
Friday, February, 21	Short-horns, Fred Schaefer & Son, Estherville, Iowa. Duroc Jerseys, Geo. Davis & Son, Milford, Neb. Duroc Jerseys, E. C. Stemen & Son, Middle Point, Ohio. Poland Chinas, Orville O. Jones, York, Neb. Poland Chinas, W. J. Crow, Webb, Iowa. Poland Chinas, R. W. Halford, Manning, Iowa.
Saturday, February, 22	Poland Chinas, James Lawler, Clare, Iowa. Duroc Jerseys, Menaugh Bros., Gardner, Ill.

field man for The Homestead and bids sent to him will be properly cared for.

Arney's Angus Sale.

On February 27th, J. V. Arney will make a public sale of Aberdeen Angus cattle at Leon, Iowa, at which time he will offer some of the best bred Angus cattle that have gone through a sale in a long while. Mr. Arney is one of the most representative and best known young Angus breeders in the state and he has made an enviable reputation as a breeder of high-class show and breeding cattle. He will sell about thirty-five or forty head in this sale, among which will be ten young bulls. There will be ten choice Blackbirds in his offering, a number of Trojan Ericas, K. Prides, Prides of Aberdeen and Queen Mothers. Included will be daughters of such noted sires as Imp. Earl Eric of Ballindalloch, Imp. Black Jester of Ballindalloch, Imp. Proteros, Baltimore of Glendale and his own great breeding bull, Black Star 2d. It will be remembered that the most of his show cattle that he has been producing the last two or three years have been sired by Black Star 2d, and he must therefore be regarded as not only one of the best breeding bulls today in the West, but he is an individual that any breeder could be proud of. We think he is looking better than we have ever seen him before and he has certainly sired some good things for Mr. Arney, both in males and females. All the cows and heifers not related will be in calf to Black Star 2d, and therefore will be choice things to buy. Mr. Coldwell, Burlington Junction, thought enough of this bull to buy his splendid young son, Ebony of E. 3d, a Trojan Erica that he expects to show next fall and he is one of the very promising young bulls that will be fitted for the fall shows. One of the best young cows he is selling is Katrino of A., a K. Pride that was never lower than fourth except at the International. She is safe in calf to Ebony of E. 3d and she is just one of the very choice things that will be sold in any sale this year. He is Glencroft Trixie by the well-known Dashaway. The dams of the young stuff for sale are mostly strong in the blood of Parbold Piccalo by Anfield Model. This last named dog is one of the most noted of the breed. These dogs are all for sale at prices usually asked for the ordinary sort. For full particulars address as above at once and kindly mention The Homestead when you write.

Polly's Sow Sale.

February 19th, at Whiting, Iowa, is the day that C. C. Polly is going to interest the big-type breeders with one of the best offerings of Poland China sows he has ever listed for a public sale. In last week's issue we spoke of Lakeside Wonder at some length, because we had considered him one of the greatest young boars in western Iowa, and there are a whole lot of people who think as we do about this boar. There will be twenty daughters of Lakeside Wonder in the sale and some of the sows will be bred to him. We spoke of the Expansion sow last week that he intended to sell, but he has left her out and he will offer instead Big Queen by old Sioux Chief and she goes in bred to Lakeside Wonder for an early litter. She is one of the best individuals he is offering and she is capable of weighing 700 pounds. He has also added to his last week's list three daughters of Pawnee Expansion, he by Dorr's Expansion, out of Royal Dude-bred dams, and these are bred to Lakeside Chief, he by Lakeside Wonder. These are splendid gilts of the Henry Dorr type and they are individually good enough to go into any herd. The Lakeside Wonder gilts are certainly a splendid lot, both from an individual standpoint, and also carry the best of big-type blood lines. Just a word about Marvel Chief, the boar that some of these sows are bred to. He was fourth in the under-year class at the Nebraska State Fair last fall in a class of twenty-nine shown. He was also first, champion and grand champion over all breeds at the Gage County Fair following the state fair at Lincoln. His sire, Norval Chief, and his dam, Bright Light, were also well-known winners at the Nebraska, Kansas, Missouri and other state fairs, and consequently this boar has a right to be good. The Polly offering is a good one and deserves the support of every breeder and farmer who is going to want some good Poland China bred sows. Write for his catalog and mention The Homestead. M. T. White will represent this paper at the sale.

The Lincoln Horse Sale—Last Call.

In making the last call for the sale of Percheron and Belgian horses that will be made by the Nuckolls County Horse Breeders' Association at Lincoln, Neb., on February 20th, we think we are calling attention to one of the really great draft horse sales of the season. This sale will contain a great lot of big, sound brood mares, all of nice ages and all old enough to breed will be bred to stallions of known breeding value. Some of the very best young mares that the writer has seen in a long time will go in this sale. This is not an offering of old, worn-out stuff or of dealers' horses, but instead it is an offering of strictly choice stuff drawn from some of the best breeders' studs in Nebraska. This is a class of stuff that it pleases the writer to recommend to the buying public. We feel confident that they are the profitable kind to buy. We would be pleased to see a good attendance at this sale and believe they will be well repaid for their coming. Plan to be on hand. Lincoln is easy of access and the very best of hotel service may be had. There is still time to get the catalog if you act at once. Mention The Homestead when you write.

Paul's Percheron Place.

Paul's Percheron Place, Washington, Iowa, as the name indicates, is the Percheron farm owned by George H. Paul, a well-known business man of that place. Mr. Paul has an excellent farm nicely equipped to handle horses adjoining the city limits. It has been the ambition of the owner to get a collection of Percherons that would be the equal of any on the American continent. In 1911 he commissioned his efficient manager, A. R. Smith, to visit France and purchase the best stallion obtainable, as well as some of the very best mares to be found. Mr. Smith purchased Joblot (84016) 82288, a dark gray stallion that is almost faultless. He weighs over 2,100 pounds as a three year old and has the clean limbs and heavy bone that breeders like. He is a full-made, well-proportioned horse that has the look of an impressive sire. Mr. Paul raised fifteen colts this year that are with one exception sired by Fricoteur (63402) 52012, an eight-year-old dapple gray stallion that is still in service. These colts are an extra large, good-boned lot and are excellent proof of the superior ability of Fricoteur to sire good ones. Twenty-seven mares on the farm are safe in foal to these two gray stallions and any of them are for sale. They also have some yearling and two-year-old stallions that are the right sort and will be priced worth the money. This collection of sixty-five imported and home-bred Percherons are worth looking over, as it is rarely you see so many good ones on one farm. See advertisement elsewhere and write for any information you want, mentioning The Homestead.

Peter Mouw's Annual Sow Sale.

This week we give the last call for the sale of Peter Mouw, Orange City, Iowa, on February 19th. This famous breeder is selling an unusually good lot of tried sows and yearlings, also including a few spring gilts that are of the same sort and with the same prospects of growing into the sizable sows that the older ones are now. It is unnecessary to call attention to the work of this breeder, who for so long stood alone in the production of this type that is considered to have regenerated the breed, and to the fact that in this herd is the very foundation of the big-type hog, now so universally prevalent in this breed. Mr. Mouw certainly gets size on the product of his herd and he has a good eye for the individuals that have good build. The class of the sale offering that he is selling this year will be all the proof of that statement that any one will need. In the cataloged list are several sows that are smooth enough and well enough proportioned to make show sows, in fact, they are show types right today. No. 1 of this sale is one of that sort and No. 3 also. The breeding of both the famous Big Jumbo and the boar, Long Orange, now in service here, has produced sows that possess all the qualities that have made the Mouw Polands famous wherever they have gone. There is a pleasant surprise in store for the breeders of Poland Chinas who may be at the sale, for the sows are extra good. In support of the class of the sale stuff it is superfluous to call attention to the great number of good herd boars that are now in service in so many of the leading herds of the whole country that have been bred on this farm, or from hogs that have come from here. And while breeders are there on the farm they will have a chance to see why the hogs that go out from Mr. Mouw's place are of such wonderful size. Just go out in the lot where he keeps the sows that he is going to raise next spring's crop of pigs from, and in the size they have now, and the uniformity of the type they show, will be seen the cause of big pigs and the reason for big litters. The fact that the major part of the offering is of yearlings and matured sows, the sort that are always the best kind of mothers, makes the purchase of a sow from this sale the safest forecast of good litters well raised and therefore the surest method of infusing a goodly amount of this prepotent line of blood into any herd. Getting such blood at its very source also has advantages that are not to be forgotten. There will be fifty head of the sows in the sale and it will be held in the spacious new pavilion that made such favorable comment a year ago, just after it had been erected. If you are not able to attend the sale Ray

L. Gribben, Homestead representative, will insure you honorable treatment in the handling of your bids. Write today for the catalog, mentioning The Homestead. Address Peter Mouw, Orange City, Iowa. See advertisement elsewhere in this paper.

Manager J. G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "We had the pleasure of a visit from John F. Maynes, Pottawattamie county, Iowa, last week. He has been looking for a strictly high-class Percheron stallion for some time. He finally selected the gray colt, Karvi, champion at the Minnesota State Fair last fall, beating at that fair the champion Percheron stallion of the Iowa State Fair. The breeders and farmers of Pottawattamie county are to be congratulated upon having a horse of this high character in their midst. Our regular January importation of Shire and Percheron horses is about ready to leave Europe and will include some of the best specimens possible to procure in England or France. Our 1913 catalog is now ready for distribution to any of your readers who are interested in high-class horses." See advertisement elsewhere in this paper.

Williams & Sons' Poland China Sale.

On February 13th, at Villisca, Iowa, L. B. Williams & Sons will hold their annual Poland China bred sow sale and they will sell forty head. They have selected six of their best tried sows, four fall sows and the remainder will be spring gilts. The spring gilts will be litter sisters to the boars they sold in their fall sale and two or three of these are full sisters to the boar that sold for $100 in that sale. This is one of the oldest firms breeding Poland Chinas in the state and they are offering some very choice sows in this sale. Remember their sale will be held at Villisca, Iowa, on February 13th, and their catalog is now ready for distribution. When writing for it kindly mention The Homestead.

Scott's Mammoth Jacks.

G. M. Scott, Rea, Mo., proprietor of the Quiet Glen Stock Farm, has in his barns this year a class of Mammoth jacks that should please the more critical buyer. Mr. Scott says he believes he has more big, heavy-boned jacks than have ever been in the Quiet Glen barns at any one time before and all who have visited there know that some great jacks have been owned there since the establishing of this jack farm somewhere near seventy years ago. Mr. Scott has been breeding jacks since 1866 and is known as a conservative and safe gentleman to do business with. He invites inspection of his stock and says he is in position to make even better prices than usual. Note his advertisement and when writing or visiting him kindly mention The Homestead.

Dunhams' Percherons.

In their advertisement in this issue the old, established Oaklawn importing and breeding establishment of the Dunhams, at Wayne, Ill., call attention to the fact that at this time, their forty-seventh year of continuous business, they are better prepared than ever to care for the wants of those in the market for high-class Percherons. The late M. W. Dunham established Oaklawn on a high plane and those who have succeeded him in its management have always endeavored to live up to his high-class methods of doing business and present a class of horses that will stand up under the hardest tests. The barns at Oaklawn are filled with good horses, a new importation having recently landed, and the inspection of discrimnating buyers is invited. A handsomely illustrated catalog will be sent free to any address if you write Dunhams, Wayne, Du Page county, Ill., and mention The Homestead.

Moline Plow Co.

Within the recollection of the writer the Moline Plow Co. was an almost insignificant concern giving the attention of its very small shop to the production of Moline plows. The work, however, was set on a firm basis because the plow was right. As a result, farmers kept buying Moline plows until a little shop became a little factory, then a bigger one, and today a mammoth manufacturing institution with capital of $30,000,000. While the Moline plow still remains the chief factor in the production, additions have been made of the Mandt wagon, Heney buggy, Freeport carriage, the Monitor drill, the Acme steel and McDonald pitless scales. A quite recent addition is that of the harvester plant of Adriance, Platt & Co., Poughkeepsie, N. Y. The latter is a concern established and in operation since 1855, which produces a well-known line of goods which will make a valuable addition to the Moline list.

Cockerton's Great Offering.

On February 18th, James Cockerton will again make his annual sale of Poland China brood sows and he is one of the breeders who always puts up a great offering. We will say this for Mr. Cockerton, that he is one of the breeders who always gets a great bunch of sows together for a sale, and you will make no mistake if you attend his forthcoming sale, as you will see there one of the most excellent and useful big-type offerings of the season. In this sale he is going to sell that great sow, Long Mollie, which is regarded as one of the largest and best sows in the West. Every breeder who has seen her pronounces her one of the greatest sows in the state and he has listed her for this sale as a special attraction. He is also selling a daughter of hers that is a corker. Six tried sows, eleven fall sows and thirty of the best spring gilts you ever saw go into his sale and these are bred to Orange Jumbo, Big Wonder, A Defender and Cloverdale Wonder. The Cockerton offering is one that we can recommend to anybody who wants some good sows. Write for his catalog and kindly mention The Homestead. M. T. White will be field man at the sale. Address Mr. Cockerton at Whiting, Iowa.

Bargains in Duroc Jersey Bred Sows.

Robert Pritchard, Carroll, Neb., is advertising in this issue of The Homestead some of the choicest bred gilts and sows that will be put up for sale this year by any breeder of the Duroc Jersey hog. He has yearling sows that he is placing a very low price on, and for quality, stretch and brood sow types they will prove the very best sort of bargains. He must get rid of them very soon, as he has but very little room on his place for the extra sows and the season for farrowing will soon be here, which will take all the room that he can very well spare. To move them a little more rapidly he will for the next few weeks quote you some very low prices. Several of the gilts are out of sows by the old boar that Mr. Pritchard sold to E. E. Handley, Carroll, Iowa, Frankfort K., and are sired by boars that have the most popular blood lines. Some are by Soo King, one of the famous lot of pigs that Sol Frank sold at the Sioux City fair a year ago. They are all bred to one of the biggest spring boars that we have seen this year. He was the top of Mr. Moderow's sale last fall and is indeed a good pig. Write to Mr. Pritchard now while the chance of securing one of these bargains is still good. Address Robt. Pritchard, Carroll, Neb.

Ewing's $6,000 Superba Sale.

Bob Ewing, New Hampshire, Ohio, will sell a great lot of Duroc Jersey bred sows on February 17th. A large part of the offering will be bred to the Iowa and Illinois grand champion, B. & C.'s Col., and the noted prize-winning boar, Superba. Twenty-one will be bred to Superba and fourteen to B. & C.'s Col. Eleven will be bred to Orion Chief, a yearling son of old Orion Chief. This boar is said to be one of the greatest sons of Orion Chief living and is the making of a great sire. Two are bred to Proud Chief, one to Crimson Col. and three to Crimson Chief, second-prize boar at Ohio in 1912. He is selling eight fall pigs sired by Superba and two by McNeil's Model. Mr. Ewing recently purchased East Bros.' interest in Superba and is now the sole owner of this noted boar. Breeders generally know the high value that has been placed on sons and daughters of Superba at the leading sales during the past year. A Superba sow out of a Proud Advance dam is one of the attractions of the sale. Another good sow is by The Professor and she is a litter mate to Reformer, the International junior champion last year. Perhaps one of the best sows to be sold this winter is American Beauty by Superba, bred to B. & C.'s Col. She is all that her name implies and might have been the world's beauty, as she is about as good as one could describe a perfect sow. Send bids to H. E. Browning, representative of The Homestead, in care of Mr. Ewing. Address for catalog Bob Ewing, New Hampshire, Ohio, and kindly mention The Homestead.

McCray's Hereford Sale.

Among the seventy-six head of Herefords that will be offered at Kentland, Ind., February 26th, by Warren T. McCray, there will be no "tail ends." It is a well-balanced lot throughout and there is not a bad one in the entire offering. Among the twenty-five bulls cataloged will be found the strongest lot of herd-heading and show-yard material that has been offered in a draft sale by one breeder for many years, if ever. Fifteen sons and grandsons of the great Perfection Fairfax are listed and there should be keen rivalry to secure some of the blood of this, the greatest Hereford sire of modern years. Many sensational show bulls have been bred at Orchard Lake Farm in recent years, but in the forthcoming sale will be found some of the strongest prospects. Mr. McCray has ever produced. There are a number that Manager James McHendry would prefer to keep and grow out, but the rule at Orchard Lake Farm is to always give the public more than an even divide. A sensational youngster is offered in Duke Real by Beau Real and out of Lady Fairfax 9th, a full sister to the grand champion cow. Duke Real was a year old January 21st and in the 1912 show rings he was always at the top, being first at Des Moines, Indianapolis, Springfield and Syracuse, and second at the International show. This is absolutely as good a young bull as was ever sold from Orchard Lake Farm. Perfect Fairfax by Perfection Fairfax is a top bull in any company. His dam, Sister Perfection, was the dam of Gay Lad 6th, the Harris grand champion bull. Perfect Fairfax is a bull of great scale, wonderful depth and thickness, exceedingly strong head, with remarkable back and evenness of flesh. He was a member of the 1912 winning show herd. Another outstanding good one is Baron Fairfax by Perfection Fairfax, a low-down, thick and meaty fellow, the kind that reproduces. This bull should attract attention sale day. It would be impossible to call particular attention to each one of the bulls in this sale. There is no want in the bull line that cannot be supplied at Kentland on February 26th. The bulls range in age from yearlings to three years old and everyone is fit for herd-heading duty. The fifty-one females cataloged for the sale are a remarkable lot. Fifteen of them sell with calves at foot, nearly all by Perfection Fairfax or one of his sons. There is an abundance of show and breeding material among these females and every lover of good Herefords should be on hand sale day. In fact, there are so many good ones that it is impossible to particularize. The two-year-old Francis Brummel Manager Hendry considers the greatest prospect in the country for a show cow and he certainly is competent to judge. She is bred to Baron Fairfax. Gay Lass 5th is a remarkable young cow by Prime Lad 16th. She is a half-sister to the champion bull of 1911 and was herself close to the cow championship at many of the state fairs in 1912. Donna Lass 9th was first as a yearling at Des Moines, Indiana, New York, and second at the International. Fleeta Fairfax, winner at Chicago in the junior heifer class, and Armour Fairfax, full sister to Lady Fairfax 4th, are two sweet heifers. Dolly Dale 2d was a winner at the 1912 shows in her two-year-old form, while Primrose Fairfax by Perfection Fairfax is as thick and mellow as one could ask. Donna Fairfax and Sister Fairfax are two young heifers of great promise. And so it goes all down through the list. This will be the greatest Hereford sale of recent years. In fact, no better lot was ever offered in a draft sale by any breeder. They are bred right and under the skilful hand of Manager McHendry they will go into the sale ring in satisfactory condition. The handsomely illustrated catalog will be sent upon application. Write Warren T. McCray, Kentland, Ind., as per the advertisement in this issue. Kindly mention The Homestead.

Pederson's Poland China Sale.

On Friday, February 28th, C. M. Pederson will sell forty-one head of Poland China bred sows at Dunlap, Iowa, and he not only has a good offering, but he also deserves to have a good sale. Mr. Pederson has built up a good herd and he has bought the very best that money could buy. The sows that he is selling in this sale are bred to the three good herd boars he has been using in his herd. One of these is that splendid boar, Long Orange, and he is a son of that famous boar, Big Orange, and is out of Fussy 4th, one of the best sows ever bred by L. R. McClarnon. Another is Gold Dust Wonder, a son of the noted Hadley Gold Dust, and the other is Defender Again, a son of the show winner, D.'s Defender. Among the well-bred sows that Mr. Pederson is selling in this sale are daughters of old Miller's Chief Price, Miller's Tecumseh, Big Hadley 3d, Chief Price Again, Orange Boy, Gold Dust Wonder, Big Wonder, B Wonder and other well-known sires. Mr. Pederson is selling an excellent lot of sows in this sale and it will be a good place to buy them. Write for catalog and kindly mention The Homestead. M. T. White will be field man at the sale.

Miller's Percheron, Jack and Jennet Sale.

On Thursday, March 6th, at his barns in Kirksville, Mo., S. J. Miller, of that place, will sell twenty head of imported and American-bred Percheron stallions and mares and twenty-five head of Mammoth-bred jacks and jennets. The stallions weigh from 1,800 to 2,000 pounds, are all blacks and dark steel grays and are horses Mr. Miller has imported or have been bred in this country by reliable breeders. He knows the stallions are sure foal getters that sire high-class colts. The imported stallions were brought over two years ago and have stood one and two seasons at his barns, so that he knows they are right. The ages are right and they are ready to go into hard service. Among the mares is the second-prize two-year-old filly at the Missouri State Fair in 1911, also first-prize weanling in 1910. They are bred to Mr. Miller's imported herd stallions that are known as sires of prize winners. Among the jacks will be found some as good as are found. Planter Jr. by King Planter and out of a Clearmont jennet is the sire of several and the jack to which a number of the jennets are bred. Other young jacks are by Dandy John and a number of the good jennets are bred to Miller's Stonewall, that cost Mr. Miller $2,050. The foundation stock of many of these jacks and jennets traces direct to old Hannibal. King Mammoth, the jack that sired Missouri Queen, the 2,200-pound mule that sold for $1,600, is the grandsire of a number of head in the offering. A number of the jennets sell with colts at foot. There are some yearling jacks listed that will bear inspection and should go to some jack man who will grow them out. In future issues we shall have more to say of this offering. In the meantime write Mr. Miller for a catalog and kindly mention this paper when doing so.

Van Patten & Son's Duroc Sale—Last Call.

One of the pioneers in the Duroc Jersey business, and a man who has registered a distinct success, is the senior member of the firm of Gilbert Van Patten & Son, Sutton, Neb. Few men have been honored so many times in the show ring, few men have sent forth so many good breeding hogs, and few men hold as high a place in the esteem of fellow breeders as this man. These things are not accidents, nor can they rightfully be attributed to luck, for those who have been over the road are only too well aware that such success can only be had by years of painstaking effort and many obstacles overcome. Therefore there is reason for this measure of success of which we speak, and those starting in the business of Duroc breeding will find that these reasons may well be looked into, as they will guide the inexperienced past many a bad place in the road. The most important of all the causes of advancement in this herd was to start with the very best to be had, buy the very best that could be found from time to time, take good care of the stock on hand and give buyers a square deal in every way. Show herds were bred for, mated for, years in advance of their coming. They were not accidents. They were the result of judgment and patience. The brood sow herd has been bred for in advance and the sows now bred and that will go in the sale that will be made on February 19th are mated with the best judgment that the years of experience best direct. Uneeda Crimson Wonder was purchased over two years ago and was purchased to sire a line of big, roomy brood sows. He has certainly done his work. The country was searched for a boar to breed on the Uneeda Crimson Wonder gilts, and he was found in Model Wonder. To the writer's way of thinking this will be a splendid mating and if it does not produce results we do not know where to get off at. The blood lines are right to produce the very best and the individuals are the sort that have made world-renowned matings. We don't see how it can miss. We believe that the breeder who has his own best interest in mind will attend this sale and take home one of these sows. This sale is the day following the Geo. Briggs & Sons sale at Clay Center, Neb., and is only a few miles from that place. These are actually two of the greatest Duroc events to be pulled off this season. Arrange to attend.

Mart Sheehan's Sow Sale.

On February 24th, at his farm south of Stuart, Iowa, J. M. Sheehan will make his annual Poland China brood sow sale and he is cataloging another great offering. One of the things that always attracts attention in the Sheehan sales is the size that he has in his hogs and the bone. First and foremost is the boar, King Wonder, that heads his herd. King Wonder is one of the sensational sons of Fesenmeyer's old A Wonder and he has for a dam that famous old brood sow, Mammoth Giantess. He is an 800-pound yearling and he is the sire of many of the good sows that will be sold in the sale and he is also bred to many that are cataloged for this sale. Running through his catalog you will find daughters of that noted boar, Choice Look, King Wonder and other noted large-type hogs that have been making history for many of the noted breeders throughout the West. For this sale he has picked out some of the best tried sows he has in his herd, also some of the best yearlings and spring gilts. No herd here in the West has any better blood lines than will be found in the Sheehan herd. If any of our readers want some good sows here will be a good place to buy them. Write J. M. Sheehan, Stuart, Iowa, for catalog and kindly mention The Homestead. M. T. White will represent The Homestead at this sale.

Duncan Offers a Superb Lot of Durocs.

On Thursday, February 27, 1913, J. O. Duncan, Lebanon, Ky., will hold his annual Duroc bred sow sale as advertised in this issue. It should be remembered by readers of The Homestead that this sale and that of E. S. Mayes, Jr., Springfield, Ky., and McKee Bros., Versailles, Ky., will hold their annual sale at Springfield, Ky., February 28th, the day following this sale, and that visiting breeders and farmers from a distance will be entertained at Lebanon, Ky., the two nights of these sales, both sales being made at one expense. Mr. Duncan has an unusually nice offering, in fact, few better will be sold this year. The blood lines are the very best. The boars used are Professor Good by The Professor, dam by Col. Casey, and Bellefounder by Col. King by King of Cols., dam by Chief Orion. The sows are by Ohio Chief, Tippy Col., Col. King, B. & C.'s Col., King of Cols. Jr., Orion Chief, Garnett Col., Masterpiece, Ky. Col. and others. But among the young stuff are some specimens we wish to call special attention to. These are the fall pigs by Defender and Superba, some eleven males and three gilts being offered. They are real live ones, great in quality and massive in size. If in need of a herd boar special attention is called to these. H. E. Browning will represent The Homestead. Bids by mail or wire should be sent to him. Colonels Igleheart and Wheeler, auctioneers. For catalog address J. O. Duncan, Lebanon, Ky.

Bloemendaal & Korver Bros.

G. J. Bloemendaal & Korver Bros., Alton, Iowa, hold their second annual sale of bred Poland China brood sows at their farm, three miles northeast of Alton, on the 18th of February, the day preceding the sale of Peter Mouw at Orange City. For a man who has only been in the breeding of this class of hogs for a short time Mr. Bloemendaal has made progress that can be matched by but very few. The sale of a year ago was among the best in this section of the state and this year he has even surpassed the quality of that sale. Perhaps the most prominent feature in the herd at this farm is the big boar, Big Black Jumbo. Of the sons of the great Big Orange none has made a better record and few are likely to make a better one than this boar. He has big breeding on both sides of his pedigree, having been from a sow by the 1,030-pound Beauty's Jumbo that made a good account of himself in the herd of Geo. Castle at Inwood, Iowa. This is now one of the largest boars in this section of the state and it will hurry any other parts of the country to show one with much more size. He is not only big himself, but he gets the same size in the pigs he sires. And the good things that these pigs have do not stop with mere size. They are smooth and are good things in the yards of the man who wants to put his hogs on the market at an early age in shape to go up near the top of the sales. At the head of the Korver Bros. herd there is a yearling boar that has a lot of merit in this strain of breeding. He is Mouw's Chief by a good son of the old Chief Price 2d, the sire of so many of the good sires of big breeding, and has some of the same smoothness that marks Farver's Goliath, a son of the same boar. He is also a big one and for a yearling has made a good showing in his breeding so far. The other boars that are now heading the herds are Gerstdale Wonder, Big Wonder by A Wonder 143421 and Big Jones Again, all good selections for this line of breeding. Sows by Big Orange, the sows that raised last year the two best gilts that were in the sale, and this year bred to Gerstdale Wonder. Another of the good things in the tried sows is one by Long King 2d, out of a Big Orange dam. She is bred to the same boar as the two preceding ones. And the sow that was mentioned last week and which is good enough for mention until someone who is satisfied with nothing but the best gets her, is Big Wonder's Girl, which will be bred to Mouw's Chief. This is one of the best things in the sale consigned by either of the men. It comes from Korver Bros. The entire sale is full of the most prominent breeding and the sows are all the good kind one would expect to get from such lines. Write now for a catalog.

DO YOU WANT TO BUY HIGH-CLASS HEREFORDS?

The opportunity to pass upon one of the best lot of Herefords ever presented in a public sale ring will be given at

Kentland, Ind., Wednesday, February 26, 1913

W. T. McCRAY WILL OFFER 76 HEAD OF THE PERFECTION FAIRFAX KIND

SHOW AND BREEDING CATTLE TO SUIT ALL

25 SHOW AND HERD BULL PROPOSITIONS

15 SONS AND GRANDSONS OF PERFECTION FAIRFAX

THE 51 females in the offering are all young and of the most practical and desirable sort, show heifers and tried breeding propositions, included in the list being several daughters of PERFECTION FAIRFAX, the greatest sire of the Hereford breed, while practically all the balance are bred to him or one of his sons. Every animal in this offering will add strength to any herd in America. The representatives of the leading live stock papers, who have inspected the cattle for this sale, pronounce it without question the strongest lot, numbers considered, that any one breeder has ever sent forward to a draft sale. The big majority of the offering was produced on Orchard Lake Farm, and we submit the cattle confident they will suit the buying public in every particular. You will have an opportunity to attend both a cattle show and sale at Kentland, February 26th. The handsomely illustrated catalog tells the story. It will be sent only upon application. Mention The Homestead and address

WARREN T. McCRAY, - - KENTLAND, INDIANA

Cols. Reppert, Huxley and Igleheart, Auctioneers.

mentioning The Homestead. Ray L. Gribben, Homestead representative, will give you the most careful attention on bids and will assure you of fair treatment. Address either G. J. Bloemendaal er Korver Bros., Alton, Iowa. See advertisement elsewhere in this issue.

Jess Andrews' Duroc Sale.

On February 24th Jess Andrews, West Point, Ind., will sell forty-five bred sows at La Fayette Sale Company's pavilion, La Fayette, Ind. The offering consists of tried sows, fall yearlings and spring gilts sired by Pine Chief by Orion Chief, Col. V., Fancy Col. 2d ond other noted sires. The sows are bred to Crusader, one of the good sons of Orion Chief that Mr. Andrews recently bought in the Browning sale. Others are bred to Pine Professor, a son of The Professor. There will be one sow in the sale bred to Colonade, the Indiana and International grand champion of 1912. This is the only sow to be sold at public auction this year bred to this noted boar. This is a high-class offering and every animal sold is well bred and of the useful sort. Bids sent to H. E. Browning, Homestead representative, care of Mr. Andrews, will receive careful attention.

Stemen & Son's Duroc Sale.

E. C. Stemen & Son, Middle Point, O., will sell a grand offering of sixty bred sows at their farm on February 21st. The offering is sired by fifteen of the most noted boars of the breed. The offering consists largely of yearlings and spring gilts and every one is a good one. The boars used in this herd are as well bred and as good as can be found anywhere. One of the main sires, Highland King, an International champion, has sired most of the young show herd that this firm exhibited at the leading fairs this fall. At the Hanks & Bishop and Droz sale in Iowa last week the top gilt in the sale was sired by Highland King. Defender King is also used on a part of the offering. He is a large, smooth son of Defender. There will be a few gilts bred to Proud Professor, a son of Professor and out of a Proud Advance dam, a line of breeding that has never failed to make good. Others are bred to Fancy Col. 2d, a son of Mahan Bros.' champion, Fancy Col., and a few are bred to I Am Buddy K. and Wonder Chief, two boars that sire the big type. This is the best and most even lot of sows that this firm has ever offered. Send for catalog, mentioning The Homestead. H. E. Browning will handle bids sent to him in care of E. C. Stemen & Son, Middle Point, Ohio.

Crow-Type Poland Chinas.

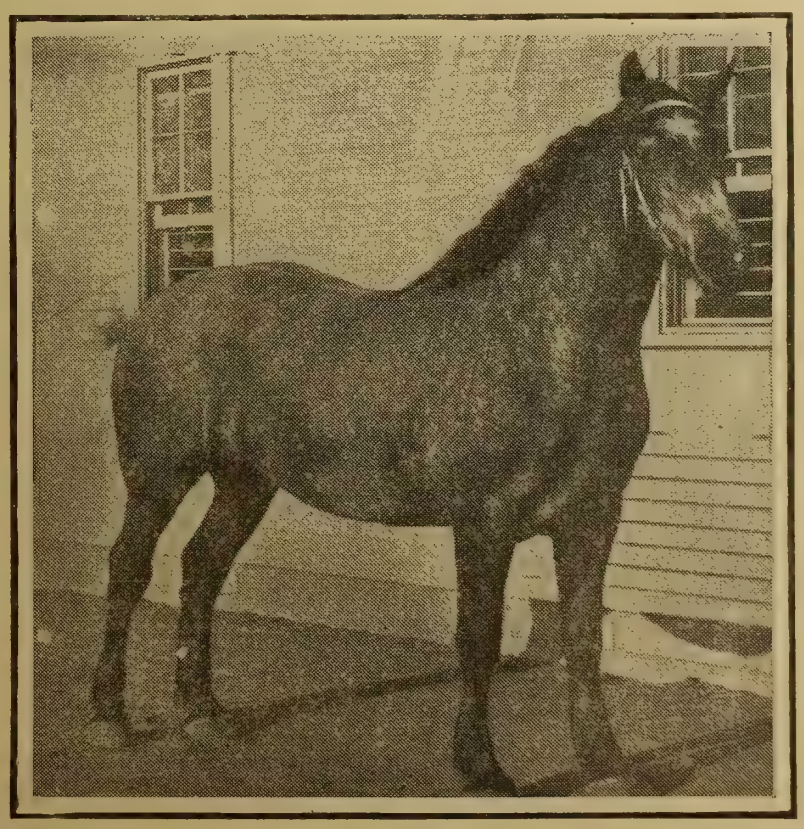
W. J. Crow, Webb, Iowa, holds his twenty-fourth annual sale of Poland China bred sows at his farm on February 21st, the day following Ruebel Bros.' sale at Marathon, Iowa. These two sales are only a few miles apart, making it an easy matter to attend both of them. When considering which sales to attend this season or any other season, one wants to go where there are hogs which will do best in their new homes. The object of all breeding is improvement and places where one can buy what he is sure of, that is, with a list of ancestors of uniform enough type to insure their offspring of producing their own sort, are certainly the places one would prefer to go for breeding stock. Mr. Crow is not merely a raiser of pure-bred hogs, for he has always had a definite idea of what he was after and why he wanted it. As a result he has established about as practical a type of hogs as farmers want or need. Since his herd is the result of continuous selection for a single type, the ancestors of the sows he sells this year are uniform, and Mr. Crow's stock breeds uniformly. Hogs that are produced by a constructive system like this are the ones that give the most satisfactory returns. That the products of this herd give such returns is proven by the number of them that head prominent herds, that have topped other breeders' sales and that have made money wherever they have gone. Get the catalog now and come to the sale to buy sows that are in good condition, are good types, big, smooth and thrifty. Crow's Kind is an exceptionally showy boar and the young boars, Straight Edge, Big Porter and Brilliant, are the sort one expects on Mr. Crow's farm. Ray L. Gribben, Homestead representative, attends the sale. Send him your bids. Address W. J. Crow, Webb, Iowa. See advertisement elsewhere in this issue.

A Trio of Great Young Bulls.

T. J. Sands, the well-known breeder of Short-horn cattle, Robinson, Kan., whose well-bred herd is so favorably known, has on his farm at this time three great young Scotch bulls that should find homes at the head of good herds. Two are roans and one is red and all are royally bred. The oldest is a mellow roan, calved in July, 1911, and is by Royal Diadem and out of a cow by Golden Lad, second dam being Imp. Nonpareil 35th. This young bull is a splendid individual, heavy boned, with fine head and horn, in fact, a young bull of good conformation, a great prospect. He has plenty of size, weighing at this time about 1,300 pounds. The second young bull is a month younger than the first named, a roan Cruickshank Sybil by Royal Diadem and out of a dam by Imp. Royal Pride, and is also a great prospect with lots of breed character. The third is a red, a little over a year old and is by Royal Leader, out of a dam by Blythesome Baron. Mr. Sands is pricing these bulls well worth the money and anyone in the market for a pure Scotch herd header will do well to get in touch with him at once. This herd is one of the best bred in the West and is rich in the blood of such tribes as the Sybils, Nonpareils, Violets, Clippers, Orange Blossoms, Elizas, Claras, etc. See advertisement elsewhere

Hart & Garrison's Short-horn Sale.

Monday, February 24th, at the farm of G. E. Hart, near Summerfield, Kan., is the time and place of the sale of Short-horn cattle to be made by those well-known breeders, G. F. Hart and A. B. Garrison. The offering, which will consist of eighteen bulls ranging in age from seven months to two years and the balance aged cows and heifers, contains many choice animals and will be presented in just ordinary working condition. These breeders pride themselves on producing the profitable, heavy-milking and regular producing Short-horns, and there is not an aged cow in the offering that has not proven her worth as a milker and regular producer. The offering consists of both reds and roans and many of the young bulls are the real herd-heading kind, while the heifers are a choice lot. The blood of the great show bull, Secret Prince, is prominent in the breeding of the offering, while the cows and heifers of breeding age are mated with the great Scotch bull, My Choice, owned by Mr. Garrison. This bull is one of the outstanding bulls of the breed and is royally bred, being a grandson of the great Choice Goods, and is a bull of great individual merit, full through heart, very strong on the back, well arched ribs and let down well in flank and is a remarkably smooth, mellow fellow, a natural flesh carrier, and is proving himself an exceptional breeder. If in the market for a vigorous young bull ready for hard service, an aged cow of proven worth as a regular milker and producer or some splendid prospects in the heifer line you should by all means attend this sale. The catalogs are now ready and will be mailed for the asking. Write either Mr. Hart or Mr. Garrison, Summerfield, Kan.



The above illustration is a likeness of Joconde 82289 (96967), a great three-year-old Percheron mare owned at Paul's Percheron Place, Washington, Iowa. See advertisement in this issue.

The Mayes-McKee Bros. Great Defender Bred Sow Sale.

On Friday, February 28, 1913, E. S. Mayes, Jr., Springfield, Ky., and McKee Bros., Versailles, Ky., will hold a Defender-Prince Educator sale of bred sows as per advertisement elsewhere in this issue. A few days ago E. S. Mayes sold to McKee Bros. the great boar, Defender, and twenty sows bred to him for $7,500 cash, and they now join hands in a great bred sow sale at Mr. Mayes' farm. The twenty sows bred to Defender are offered Duroc breeders to place a value on. Several pigs by Defender and Superba are also offered. Some ten sows will be offered by Defender, Superba, Garnett Col. and others, bred to the 1912 state fair champion and grand champion, Prince Educator, and he himself will be sold to the highest bidder in this sale. This is a sale of great opportunities for Duroc men for it is very seldom an offering of this kind is exposed at auction. Defender has again demonstrated his might in the Duroc world. Every Duroc man takes off his hat to him and acknowledges him the king of the breed. This is a sale of mighty moment to the breed and all lovers of Durocs are invited to attend. H. E. Browning will represent The Homestead. Colonels Wheeler and Igleheart, auctioneers. For catalog address either E. S. Mayes, Jr., Springfield, Ky., or McKee Bros., Versailles, Ky.

Storm's Volunteer Sow Sale.

One of the most important sales of Duroc Jersey bred sows to be held this winter is that of J. W. Storm, Seville, Ohio, on February 20th. Mr. Storm had the confidence in the Duroc Jersey breed to give up $1,500 for Volunteer, an International grand champion, and in this sale he will sell a number of sows bred to this noted sire. They are a useful lot of sows and gilts and in excellent condition. There will be sows sired by Orion Chief, Defender, A.'s Defender, Defender King, Jack's Friend and Crimson Col., bred to Volunteer. Sows sired by such noted boars as the above cannot help but prove valuable propositions bred to Volunteer. Volunteer was the champion boar of the South in 1911 and was purchased by H. E. Browning for $1,000 and rounded out the year by winning grand championship at the International the same year. In January, 1912, Mr. Browning sold a number of sows bred to Volunteer, one of which was purchased by Dr. Herr, and he sold the litter last fall in this sale for $1,100. Volunteer boars and gilts have sold well in every fall sale in which they have been offered. In the Knoxville, Tenn., sale the get of this noted boar were in strong demand. Mr. Storm has bought nothing but the best sows to be found, regardless of price, and many of these go into this sale. He has the confidence in Volunteer's ability to sire good ones and feels that every man who buys a sow in this sale bred to this boar will want more of the same blood in the future. He is selling two sows bred to Defender, one bred to Col.'s Pilot Wonder, the 1912 Ohio champion, and a few bred to Royal Superba and Plenty Good E. Nuff. The former is sired by Superba and out of Fond Memory by Ohio Chief, and the latter boar is by Good E. Nuff and out of a daughter of High Chief. This sale follows the Ewing, Sprague and Herr & Miller sales and it will be to the interest of every Duroc Jersey breeder to attend Mr. Storm's sale. Mr. Browning has no more sows for sale bred to Volunteer and this will be the only opportunity to get a sow bred to this grand champion. H. E.

PFANDERS' GIANT POLAND CHINAS

The Largest and Heaviest Boned POLANDS in America

Clarinda, Iowa, Wednesday, February, 26, 1913

45 HEAD 45

45 HEAD 45

A GROUP OF SOWS TO BE SOLD IN THE PFANDER SALE

2 AGED SOWS 3 YEARLINGS 18 FALL SOWS 22 BIG GILTS

INCLUDED will be **Lady Jumbo 3d,** a litter sister to the Long King sow that topped our sale at $275, bred to the great **A Wonder.** Three of our best sows bred to **A Wonder.** Three yearling sows, one a daughter of **A Wonder;** 18 fall yearlings, eight of which are sired by **Long King.** Spring gilts sired by **Big Jumbo 2d, Mammoth King, Big Ben** and King of Wonders. The largest sows in the West go into the sale. If you want the big ones come to our sale. Catalog ready. Write for it and mention The Homestead and address

J. W. PFANDER & SONS, - - - - - CLARINDA, IOWA

Col. H. S. Duncan, Auct. M. T. White, field man for The Homestead

Browning will represent The Homestead and handle all bids sent to him, in care of Mr. Storm. Send for catalog, mentioning The Homestead.

Pfander & Sons' Great Sale of Giant Poland Chinas.

On February 26th, at Clarinda, Iowa, J. W. Pfander & Sons will make their annual sale of their celebrated giant Poland China brood sows and it should be one of the great sales of the year because they have some of the largest sows living. Those who want size will certainly find all they are looking for in the Pfander herd. The dozens of breeders who inspected their herd last week all said they had some of the largest sows they ever saw, and we don't think you can find them any larger, no matter where you go. Just a word about some of the boars they are now using. Big Ben is a half-brother to Big Joe, that made such a hit with his gilts in the Fesenmeyer sale last week. Then comes that great young boar, King of Wonders, a son of the noted A Wonder, and Pfander & Sons refused a spot cash offer last week of $800 for this hog. Many of the best sows they will offer will be bred to these two young boars. In their announcement they say: "We are recognized the world over as breeders of the big-type Poland and while we do not claim to have all the big hogs in the world, we do claim to have just as large hogs as any breeder, regardless of breed or color, and we have this size with feeding quality that makes our hogs produce as many pounds of pork for the feed consumed as any hog on earth and they will do so under disadvantages that would exterminate the show hog. This makes them the farmer's hog without considering anything farther, and he is the man we must all depend on. Then when we consider their larger litters farrowed and saved, the thriftier, healthier pigs and their superior rustling qualities, their freedom from trouble at farrowing time, their superior suckling qualities and their ability to make a growth and raise two litters of pigs each year they prove they deserve their present position, at the top of the list. We believe our herd sows will average more pounds to the head, age considered, than any herd in existence. We realize others are making this claim, but all we ask is for those men to measure their stuff and then come and put the same lines on our hogs. We have more Long King and Giantess blood than any herd and we believe no better cross was ever made to produce brood sows. We have in Big Ben one of the greatest young hogs of the breed, and King of Wonders promises to make as large a hog as we ever owned. We are better fitted than we ever were to put out good hogs and big hogs. In the future we intend to go on getting the hogs bigger and better as fast as we can. They don't get too big for us as long as they will feed. We intend to go right ahead for another third of a century, and all we ask is that our record as a firm will be as clean and full of good, square dealing in the next third of a century as it is in the past. In presenting you this catalog we do so thinking it contains the descriptions of as valuable an offering as we ever drove into the sale ring. The offering has been raised right here on the farm and had plenty of range at all time. We have fed soft feed to a great extent and every hog on the place gets slop twice a day. This, of course, reduces the amount of corn fed and increases the value of the hogs, we think, as breeders and producers. These sows were in fair breeding condition when we commenced to breed and have slopped every day since. We will finish them from now on with slop so they will be in the very best condition to farrow good litters we know how to put them. We are proud to consign these sows to you. We know they are bred in the very best of the big-type blood and nothing but that. We know they are from a herd of sows second to none and sired by outstanding boars. They have been cared for right and are mated to as good boars as the breed has produced. They are the real big, long, big-type sows, and as they are immune from cholera it should be an added attraction. If you want show hogs or ornaments we have not got them, but if you want great big, long, heavy-boned sows with plenty of feeding quality, we invite you to attend this sale and guarantee to please you." M. T. White will represent this paper at the sale and wil care for any bids sent in his care.

Zimmerman's Poland China Sale.

On February 22d, at Neola, Iowa, W. E. Zimmerman will sell forty head of big-type Poland China sows and he has some exceptionally choice sows to offer. Just a word regarding his herd boars. Mastodon King was the 600-pound yearling that he bought of Ed Hickey and he is a son of the noted boar, King Mastodon. This boar was the top of the Hickey sale a year ago last fall and he has been a splendid breeder for Mr. Zimmerman. His young boar is Pawnee's Price, a son of the great Smooth Price. In this fellow Mr. Zimmerman has one of the best young boars in the state. He is a half-brother to the well-known boars, Big Joe and Big Ben, that are now heading the Fesenmeyer and the Pfander & Sons herds and these boars are all strictly in the limelight just now. Pawnee's Price is an outstanding boar in many ways and he is certainly a worthy son of his sire and he must be classed right along with Big Ben and Big Joe. You will therefore realize that Mr. Zimmerman has a boar that is the equal of any of them and many of the sows that he is selling in this sale will be bred to this boar. Among the very choice sows he will sell are three daughters of Big Orange and here will be attractions for everybody. Then there are two by Lawson's A Wonder Jumbo, two by Big Buddy and three by Big Wonder. Nobody has any better than these and their breeding is what they are all after just now. He has other sows that are just as good and, take our word for it, Mr. Zimmerman is going to show you a good bunch of sows in this sale. You will want to see his catalog. When writing for it kindly mention this paper and M. T. White will represent this paper at the sale and will care for any bids sent in his care.

Last Notice Ruebel Bros.' Sale.

The sale of big Poland China brood sows that will be held at Marathon, Ia., by Ruebel Bros. is one of the chief attractions in the series of sales that will be held that week. The boars that have sired the sows are of the best sort, one of them being the sire of the boar, Gerstdale Wonder, now in the herd of G. J. Bloemendaal. This boar, Ruebel's A Wonder, has always gotten a good line of stock and some of the big sows in the sale bred to this boar will be the right sort to buy if the object in making the purchase is to get big hogs and the best blood lines. The other herd headers are Price's Giant, another of the biggest kind; R.'s Longfellow, and the champion, Chief Again Price. There is an unusually good lot of spring gilts that are sired by this Chief Again Price and the most of them, bred to Price's Giant, will make an extra good cross. The gilts are all big and smooth and will compare with any that may be offered. Many of them will weigh around 400 pounds by the day of the sale. The fall gilts have as much size and smoothness, and among them are a few that look good enough for a try at the show ring. The catalogs will give the breeding and accurate descriptions of this offering. Write for them now, mentioning The Homestead. Address Ruebel Bros., Marathon, Iowa. See advertisement elsewhere in this issue.

Limestone Valley Farm's Thirty-fifth Annual Jack and Jennet Sale.

The thirty-fifth annual sale of jacks and jennets to be held at Limestone Valley Farm, Smithton, Mo., on Tuesday, March 4th, will, like all the sales held by L. M. Monsees & Sons, be a good place to select an absolutely high-class jack to head a herd of jennets or for raising a superior class of mules. Those desiring to found herds should not overlook this event, as the class of jennets and the jacks to which they are bred are among the greatest the breed has produced. There are listed thirty-five head of jacks and twenty-four head of jennets and it is impossible to find more bone and quality in a like number. The twenty top jacks are fully up to, if not superior, to any twenty head ever offered in former Limestone Valley Farm sales. Buster Mammoth, second-prize three year old, and Dick Moore, third-prize three year old at the Missouri State Fair in 1912, are listed. They are high-class jacks and are great jacks to use on either mares or jennets. John Stypes, a six year old by High Tide, that sold in 1908 for $2,230, is a great jack with great substance, bone, finish and action. He has proven a great breeder and should be appreciated. Monsees' Monster, one of the largest and heaviest jacks in the sale, should go to someone wanting a jack with great head and ear, plenty of bone, style and action. He is well broke and a proven breeder. Empire Jr. by Gov. Wood, the sire of Dr. McCord, is a heavy-boned fellow with good head and ear, plenty of style and action and a good breeder on both mares and jennets. High Style Big Boy by the noted High-style, that sold in 1908, is a great young jack that sires mules that sell up to $125 each at weaning time. Monsees & Sons have their barns full of this kind of jacks so that buyers will have ample opportunity for selections. They are not expecting to beat former sale records, but do know they have an offering that will compare favorably with those that made world's records. The jennets are in foal to the World's Fair grand champion, Orphan Boy 696. Several have colts at foot by the great Orphan Boy.

The Kansas City Hereford Cattle Sale, March 4th and 5th.

The sale of Hereford cattle to be held at Kansas City, Mo., on March 4th and 5th by Funkhouser, Gabbert and others, under the management of R. T. Thornton, 1309 East 15th St., Kansas City, Mo., will be a good sale to attend if in search of bulls for herd headers or range use or choice females to add to good herds. Sixty bulls and forty females are listed and each contributor is putting in well-bred cattle that are choice representative individuals from his herd. Nine bulls and six females are from the well-known Funkhouser herd at Plattsburg, Mo., and are by sons of March On 6th or out of daughters of this noted sire. As in former consignments from this great herd, there will be found choice herd header material. W. A. Dallmeyer, Jefferson City, Mo., sends four extra good bulls and four high-class heifers from his Buena Vista Farm herd. These cattle carry a great deal of Anxiety blood and are representative of the kind produced at Buena Vista Farm. The bulls are a splendid lot with extra good bone, and are good enough for use in pure-bred herds. One heifer is not quite of breeding age and the other three are bred to Paragon 12th. T. W. Carmichael, Odessa, Mo., who has sent many good things to former sales, is sending four bulls and seven cows and heifers. Sir Simoon 5th, a grandson of Beau Brummel, and Dandy Andrew, that has three yearling bulls by him, should prove attractive. Sir Simoon 5th is a coming four year old and has proven a great breeding bull and should go to some appreciative breeder. His sons have splendid dark red coats and weigh 1,200 to 1,400 pounds and are absolutely well bred. Three of the cows have heifer calves at foot and all are bred to Sir Simoon 5th. One cow is by Erling's Lad, one by a Columbus bull, one by a son of Simoon that was a Royal winner and four are by Paragon 4th. R. T. Thornton consigns seven daughters of his great breeding bull, Caesar, and one daughter, King Francis. They are the

FRANK IAMS' DRAFT STALLIONS

are **"up to the minute"** and 10 years in advance. They are the **"drafty, big-boned type"**—**"nifty, big black boys"**—the **real "medal winners"**—sensational **"show and business horses"** of note, **"ripe peaches"** from the **select "400." Big, classy "peaches and cream" black boys.** The **"Iams brand"** of drafty **"top notchers."** Iams' **importation** of **Percheron** and **Belgian stallions** and **mares** are in the **"pink of condition"** and ready for a **"good selling." "Ikey boy," smile sweetly,** and hundreds of Iams' satisfied customers **"will sit up and take notice"** that **Iams,** the **"king pin"** horse importer, is still **"doing business"** at the **"old stand." Iams** is **"pushing"** his horses to the front. The big **"peaches and cream"** "boys and girls" are **attractions** that can't be overlooked. Iams **mesmerizes** buyers with **"real drafters"** at **"bargain prices"** and having the **"horses as advertised."** Iams' **"competitors"** and **"hammer knockers"** are **"boosting** Iams" by their "knocks," until **now** he is **known** as the **"millionaire horseman,"** and on **"Easy Street,"** and growing fast. **Ikey, "come on along" and sing Iams' song.** He is selling these **"aristocratic," fancy "black boys" cheaper** than ever—or **better** horses **for less money—$1,000 and $1,400** (few little higher). Iams has

"Ikey Buyer" Bea "Wise Guy" Buy "Show Horses" of Iams—who has crossed the Ocean 50 times for horses and sold 4,141 Registered Horses, "Iams' 30 years of success" make him a safe man to buy from at Special Low Long Credit Prices. "Everybody's Doin' It."

100 PERCHERON AND BELGIAN STALLIONS AND MARES 100

They are **"models"—"humdingers."** They are 2 to 5 years old, weigh 1,700 to 2,500 pounds, 80 per cent blacks, 50 per cent ton horses. All **"registered," approved** and **inspected** by **governments** of **France** and U. S. and **certificates "stamped O. K."** All **"sound," "bell ringers"** (**"Iams' kind"—need no "state law"** to make **"them sound."**) Many **"prize winners"** and **"gold medal horses."** Big, **drafty "topnotchers,"** with big bone, quality, style, finish and **action to burn.** They are **"eye openers"**—larger and better horses than seen **elsewhere.** Big **"business propositons"** that make **"the wheels work fast"** under a **"buyer's hat." "Georgie, dear,"** Iams made a **"big killing"** by buying his horses in Europe in October, 1912. **"War scare," "dry weather,"** "bad crops," **"close money"** and **"Iams' cash"** caused the **"prize winners"** and **"tops"** to be thrown on the **market** for a **"good selling."—Iams "cut the melon"** and bought the **"rippers"** at **"knock-out prices." Iams** will give his customers the benefit of his **"good buy." "Ikey boy," "come on down town"**—see Iams—"Everybody is Doing It."

Get into Iams' "get rich wagon" and save $1,000 on a "top stallion"

(and you wear the diamonds). Iams is a **"big fly in the jelly"** in the horse world. "He keeps the gang guessing." **Iams** sells "imported horses only"—(they win 90 per cent of prizes at big horse shows). No **American-bred full bloods"**—no **"auction stuff"** or **"peddlers' horses"**—only **"choice drafters"** of **big size, bone, quality** and **finish. Iams** has the **"crack stallions** and **mares"** you **"read about."** Buy horses of **Iams** and you won't **"get stung"** in **horse** or **price. "Dolly D.,"** waltz me around **once** again, **"Ikey,"** land me at **Iams' box office** and **importing barns.** Full to "the roof" with **"black boys"** (and all must be sold). **Reduced prices.** All the world knows Iams and his **"peaches and cream" horses.** 1913 **promises** to be a **bumper** year to **Iams** and **his customers.** He saved **$300,000 to stallion buyers** in 1912. **Watch "Iams' smoke."** Iams' 30 years of **successful business** make him a **safe man** to do business with. **Iams sells horses "on honor."** A boy or a lady can buy as cheap as a man. **Iams' 1913 horse**

Catalog is an "eye opener." It has a "laugh" and a $1,000

bargain in every line. A **"bunch of gold"** to stallion and mare buyers. It is full of the real **"peaches and cream"** stallions. It is the **finest, most elaborate and original up-to-date horse book** in the world. Iams, the **"square deal" horseman,** makes every statement in **ad** or **catalog good**—or you get the $500 he **hangs up. Iams** guarantees to sell you a **better**

Imported Stallion at $1,000 and $1,400

(few higher) than are sold to **stock companies** for $4,000. Imported mares, $700 and $1,000. Iams gives **60 per cent** breeding guarantee; pays **freight** on horse and **fare** of one buyer. He can furn sh $1,500 insurance. **Iams buys** and **sells every stallion himself. Saves buyers $1,000 in middlemen's profits.** He buys stallions by **"train load."** He speaks languages—(saving 20 per cent). He is **not** in the **"stallion trust."** No **partners** to share profits. He **"pays cash"** for his horses—and sells **"topnotchers"** by **"hot advertising"** and having **"the goods." "Big Ikey,"** leave your "happy" home and buy a **"top"** stallion or pair of **imported mares** (of **Iams**) that bring colts that sell at **$500 each. "Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American full bloods"** of **questionable breeding.** Buy an **imported horse of Iams,** the **"reliable horseman."** (Then we will **"all wear diamonds."**) Iams' **"selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog.** Iams won't let you go without a **peaches and cream** stallion or mare. **"He sells the horses quick."** Iams' guarantees are backed by **"half million dollars."** References—1st Nat'l and Omaha Nat'l Banks, Omaha; Packers Nat'l Bank, So. Omaha; Citizens State, 1st State and St. Paul State Banks, **St. Paul, Neb.** Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL, NEBRASKA

kind Mr. Thornton would prefer to keep but he puts them in in order to fill the sale. Everyone interested in Hereford cattle should send now for a catalog. See advertisement elsewhere in this issue for Mr. Thornton's address, to whom inquiries should be addressed.

Truax & Son's Bred Sow Sale.

On Monday, March 3, 1913, John Truax & Son will hold their bred sow sale at their farm near Sycamore, Ohio. They have just completed a fine hog and sale barn, so everybody will be comfortably taken care of. Trains will stop at the farm. As per their advertisement elsewhere in this issue they will sell fifty head of select Duroc sows of the highest quality and most approved breeding. They are sired by Defender, Tippy Col., Superba, Cherry King, Highland King, Volunteer, Col. Beabout, Jack's Friend, Joe Orion II., Instructor, The Professor, Orion Chief, Premier Col., Kelley's Pilot Wonder, Morton's Top Col., Col. Prince Again, Col., S., Crimson Wonder Again and others. Twenty-eight of these are bred to Tippy Col., the noted boar that is owned jointly by Chas. F. Sprague and themselves. Twenty-two head are bred to the noted boar, Oakland Ohio Chief, the best boar ever sired by John's Ohio Chief. The breeding is all any live, up-to-date Duroc man could ask for. The quality is high class and we know of no better place to buy bred sows than of John Truax & Son. This is one of the very best bred sow sales of the season and a great opportunity to fill in the required number of sows you need. H. E. Browning will represent The Homestead and mail or wire bids should be sent to him. Colonels Igleheart and Gebhardt, auctioneers. For catalog address John Truax & Son, Sycamore, Ohio.

McCarty's Hereford Dispersion.

T. E. McCarty, for nearly a quarter of a century a breeder of Hereford cattle, will disperse his herd at the Union Stock Yards, Peoria, Ill., February 27th, the day following the sale of W. T. McCray at Kentland, Ind., and at that time there will pass into other hands one of the best bred lots of Herefords offered at public sale in a long time. When Mr. McCarty founded his herd he realized the value of a good sire, and a perusal of his catalog discloses the fact that he has used in his herd such outstanding good ones as Leary by the noted Lars, Clarence by Corrector, Statesman by the mighty March On, Beau Donald 6th, Perfection Jr. by the champion, Perfection, and Bondsman by Disturber. Thus his Herefords have an infusion of blood lines that are among the most attractive in the breed, and this fact should appeal to the buying public. Many of the cows in the sale have calves at foot by Bondsman or Perfection 2d, a son of Perfection Jr., while the get of the other sires used in the herd are numerous, as practically the entire offering was bred by Mr. McCarty. These cattle are only sold owing to the fact that Mr. McCarty is making some changes in his farming operations, otherwise the Herefords on his farm would not be parted with. The cattle will be presented in thrifty breeding condition, not fat or pampered, a fact that will be all the better for the buyer. This sale comes the day following that of W. T. McCray at Kentland, Ind., and direct railroad connection from that point to Peoria can be made the evening of the McCray sale. Look up the advertisement of the McCarty sale in this issue and write for a copy of the catalog to T. E. McCarty, Princeville, Ill., mentioning The Homestead when you write.

McClarnon's Big Orange Sale.

On February 26th, at Braddyville, Ia. (the sale to be held at night, after the J. W. Pfander & Sons sale is over) L. R. McClarnon will sell forty-five head of his noted large-type Poland China bred sows and his will be one of the sales where they will all be interested. One of the things that makes his sale an attractive one is the fact that he owns a half interest in that celebrated boar, Big Orange, and he will sell twenty-seven of his daughters in this sale. He is selling some of the best Big Orange sows we ever saw. Nineteen of these will be fall sows and the rest will be spring gilts. This will be the last chance this season where breeders will be able to secure Big Orange sows in any number and, as here is the fountain head where they can be obtained, it will therefore be a good place to buy them. These Big Orange sows will all be bred to Colossal, and he is not only one of the very large boars, but he is one of the best breeding boars he has ever used. He is also selling ten splendid spring gilts and fall sows sired by Colossal, as well as some by Pawnee Nelson, Jumbo Prospect and one good daughter of Ellerbroek's A Wonder. One of the very best Big Orange gilts that he will sell is out of an Ellerbroek's A Wonder dam and she is a corker of a good one. He is selling a number of splendid fall sows by Colossal, out of Grand Girl, and these will be bred to Big Orange himself. Here will be some of the great bargains in this sale. There will be four excellent Big Orange sows out of Venus by Big King, and these are bred to Colossal. There is not a poor sow in the bunch and any one of these would look good in the best of herds. He is selling a good Colossal fall sow out of Best Ever by Grand Wonder and she is a good one. He is selling ten of the best Big Orange spring gilts that you ever saw. The sows that he will sell in this sale will be bred to Big Orange, Colossal and A Big Orange. There will be so many tops in his sale that there will be enough to go around. By al means send for the McClarnon catalog and kindly mention this paper. T. White will represent this paper at the sale and wil care for any bids sent in his care.

Oaklawn Stock Farm.

George Eggert, proprietor of Oaklawn Stock Farm, Newton, Iowa, informs us that his sales during the past week were good. They were as follows: A good two-year-old Belgian stallion to John Lasquitz, Kellogg, Iowa; a good dark gray two-year-old Percheron stallion to Fred Otte, Laurel, Iowa; a fine team of extra good gray mares coming three years old to Charles McElroy, Newton, Iowa; an extra good two-year-old Shire stallion to J. Cranbeck, Atlantic, Iowa; a fine black two-year-old Shire stallion to S. D. Prince, Rockwell City, Iowa, and a wonderful three-year-old Belgian stallion weighing 2,100 pounds to John Doan, Rockwell City, Iowa. These sales indicate that Mr. Eggert handles the class of horses that suit the people. Horsemen will always find a good collection at Oaklawn to choose from, as Mr. Eggert always has a good assortment of big, drafty stallions and mares, both imported and home bred. Our readers will find him a gentleman in every way and your business relations with him will be pleasant. If you are interested see advertisement elsewhere and write him, mentioning The Homstead.

Sprague's Duroc Sale.

Chas. F. Sprague, Lima, Ohio, will sell a grand bunch of bred sows on February 18th. There will be eleven fall yearling and spring gilts bred to the noted sire, Cherry King. We can conscientiously say that no more popular boar of the breed lives and his produce have made a reputation for him that could not be gotten in any show ring. It is his ability to sire the good ones that has made him the popular boar that he is. His blood lines are right and that is one reason of his being able to produce the right kind. Twelve sows will be bred to Jack's Friend, the 1911 Ohio grand champion and a boar that is siring the big, long, smooth kind. There will be six bred to Pal's Prince, the 1911 Indiana grand champion and a full brother to Colonade, that was grand champion at Indiana and the International in 1912. A few will be bred to Joe Orion 2d, another big boar that is siring the right kind. Breeders who know the sort of sows Mr. Sprague bought in the Jackson herd and the many other good sows that he has purchased can fully realize that this offering will be as good as ever went through a sale ring. In no sale this season were there more richly bred animals than in this. It would be hard to find a better place to buy a sow that will make money than in Mr. Sprague's sale. The offering has been fed and cared for with an eye to their future usefulness. If you have not received a catalog write to Mr. Sprague at once, mentioning The Homestead. Mail or wire bids sent to L. R. Browning, Homestead representative, in care of Mr. Sprague, will receive careful attention.

Rouselle & Son Make Nice Horse Sales.

Within a week after landing with their winter importation of stallions and mares, Jos. Rousselle & Son, Seward, Neb., had sold several stallions and mares. M. Kleinhold, Friend, Neb., recently purchased one stallion and two mares, and Henry Johnson, Red Cloud, Neb, purchased one Belgian mare and one Percheron stallion. These horses are out of one of the finest importations that has ever come to Nebraska. Jos. Rousselle is one of the strongest advocates of the best that there is in the country. He imports nothing but top stuff. He is a native of France and knows the horse business from the ground up. He is personally acquainted with practically every leading horse breeder on the continent and the class of horses that he brings to his barns every year are not surpassed by any imported. There are men who import more, but not any better. Rousselle & Son have on hand right now a choice lot of stallions and mares and those looking for the best will do well to write for full information at once. You will find that the prices asked for these horses is about the same usually asked for horses that are decidedly lower grade. Mention The Homestead when you write.

Halford's Great Offering.

One of the greatest offerings of big-type Poland China brood sows that will be sold this winter will be the offering that R. W. Halford will sell at Manning, Iowa, on February 21st. We have referred at length in last week's issue about this offering and we repeat that it is not only the best offering that Mr. Halford has made, but it is also one of the greatest offerings that will be disposed of this winter. There will be twenty-five sows in this sale that will be bred to his great boar, Mabel's Wonder, and this should certainly be an attraction for those who are wanting to buy the very best. Few boars today in the West have a better reputation than has this boar, Mabel's Wonder. He is a son of the noted hog, Smooth Wonder 2d, and he is a son of Fesenmeyer's old A Wonder. Mabel's Wonder is one of the really 1,000-pound boars and he is the first 1,000-pound boar that won first prize at the Iowa State Fair. He is one of the few large-type boars that has won his way to the front in the show rings and incidentally in the hearts of those breeders who are wanting size and quality. Some of the sows are bred to his 920-pound Long Jumbo, and others to Long Price by Chief Price Again and a few to Perfect Wonder. He is selling ten of the grandest matured sows that has ever been sold in the West and these are daughters of some of the most

L. R. McCLARNON'S GREAT SALE

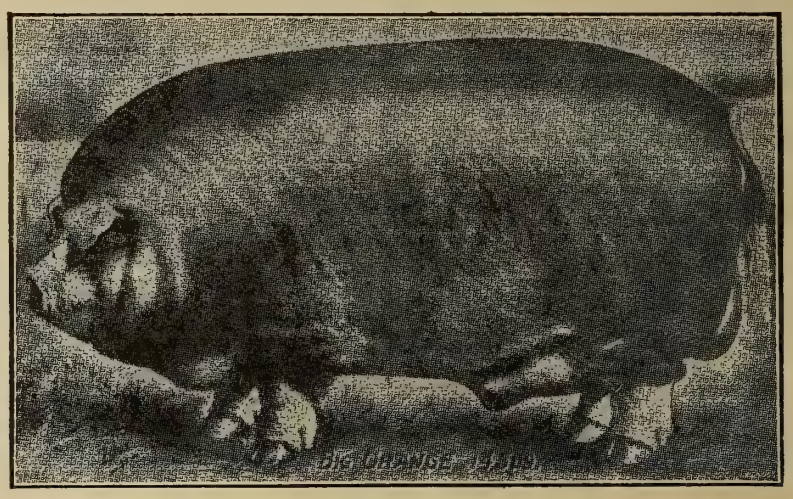
BIG ORANGE BRED SOWS

Braddyville, Iowa, February 26, 1913

40--Head--40

30 Head Big Orange Gilts and Fall Sows

10 Daughters of Colossal.



These sows are all bred to the 1,000-lb. boar, **Colossal**, and **A Big Orange.**

My sale will be held at night, and a special train will be ready to take the boys down from the Pfander sale at Clarinda. I am selling 30 head of the best Big Orange gilts and fall sows that have ever gone through a sale ring. Also daughters of the 1,000-lb. boar Colossal, others by Pawnee Nelson and other great boars. Write for catalog and mention this paper. Address

L. R. McCLARNON, BRADDYVILLE, IOWA

Col. H. S. Duncan, Auctioneer

M. T. White, field man for this paper

day. H is also selling spring and summer yearlings and a lot of fall sows. Those who have seen the Halford offering pronounce it one of the greatest bunches of strictly large-type brood sows that will be sold in the West this winter and there will be daughters of more noted big-type boars in his sale than you will find in any other one offering. You should certainly see the Halford catalog and, if possible, go to the sale. Kindly mention The Homestead when writing for it. M. T. White will represent this paper at the sale.

Briggs & Sons' Sale of Immune Durocs —Last Call.

One of the greatest individual offerings of Durocs to be sold this winter in the entire hog country will be the offering put up by Geo. Briggs & Sons, Clay Center, Neb., on February 18th. These hogs will be particularly valuable on account of them being immune. These hogs were all treated last summer and are in the finest thrift possible and are safe investments. Briggs & Sons are good stockmen. They understand the hog business, use as good boars as are possible to secure and take care of their stock in a good, sensible manner. It is worth money to buy hogs of this firm, for their stock makes good. A breeder of our acquaintance bought a gilt in the Briggs & Sons sale last winter, paying a high price seemingly for the same, but in a sale held by him recently the pigs out of that gilt averaged $20 per head more than those of any line of breeding on his farm. Her litter in the sale, there were five of them, sold for nearly enough more than the average to pay for the sow. There were also three boars in the litter, two of which are heading good herds, either of them being valued at much more than this high-priced gilt sold for in the Briggs & Sons sale. This is the sort of stuff you buy when you buy of these men, and the same quality of stuff sells in few places for as little money. True, Briggs & Sons' sales always look well in the sale report, but those not attending these sales have no adequate idea of the excellence of the offerings put up. The writer would like to see a good attendance at this sale, not that we want you to help Briggs & Sons, but rather we want you to help yourselves, for we know that here is a place to do it. When it comes to buying a Lincoln Wonder sow bred to the sensational sire and show boar, Crimson Wonder 4th, or to Queen's Crimson or to Cleatham's Pride, and then being immune, there is simply no investment that we can think of that will equal it. The writer asks all good Duroc men who are looking for good stuff to attend this sale, also the sale that will be held on the following day at Sutton, Neb., by the veterans, G. Van Patten & Son. No greater Duroc values will be offered anywhere than these two sales. It will be a pleasant trip, one easily made, and not of sufficient length to tire one. The catalogs may yet be secured, but act immediately.

Wendt's Duroc Jersey Sows.

We are in receipt of a letter from W. J. Wendt, Remsen, Iowa, in which he says that the sows he is offering for sale this season are doing unusually well, and that, though they are not yet as fat as they could be, he has some that will weigh 350 pounds easily. The gilts are from the same litters as the good bunch of spring boars that Mr. Wendt had on his place last summer and for which he had such a strong demand at the Interstate Fair at Sioux City last fall. They are the good, growthy sort of pigs that one expects good results from and sows Mr. Wendt has sent out in other seasons have given uniformly good returns. Here is a little of the breeding of a few of the choicest ones. One attractive litter is by C. Indicator by Chief Indicator and out of Lady Tolstoi by Grand Champion, a grandson of old Kant Be Beat. Another of the good litters is sired by Long Hero by West's Hero, dam High Vera by High Model by Ohio Model. The large part of the gilts for sale are bred to Grand King by Crimson Climax and out of one of the good brood sows on O. S. West's farm, West's Princess. Write Mr. Wendt for the prices on the pick of the sows that are ready to go out now and see if you cannot get some of the good kind the breed has for quite reasonable prices. Let Mr. Wendt know you are coming and he will meet you at the station and be glad to show you right on the farm how they look. When you go to visit the herd get off the train at Marcus, as it is easier to get to the farm from there than from the postoffice town of Remsen. It is only about five miles from Marcus and is quite a little farther from Remsen. Address W. J. Wendt, Remsen, Iowa. See advertisement elsewhere in this issue.

Menaugh Bros.' Duroc Sale.

Menaugh Bros., Gardner, Ill., will hold their annual bred sow sale on February 22d. A Homestead representative recently looked over their offering and they are selling the most even bunch of gilts they have ever offered. They are selling some very useful tried sows sired by Defender, The Professor and other noted boars. The boars these sows and gilts are bred to are Model Boy, a son of Model Top, and out of a Commodore sow, and Good E. Nuff Yet, a yearling by the grand champion of Ohio and out of an Ohio Chief sow. The latter is a large, stretchy, smooth boar that has proven an excellent sire and a sow or gilt bred to him will make you money. They are also using Superba Jr., a good boar by Superba and out of a Defender dam. They have a good line of herd boars and they are well bred and the gilts are a good, easy-feeding, smooth lot that will grow out into a useful lot of sows. Ten tried sows, twenty-two spring gilts and a few fall yearlings make up the offering. This firm moved to this 480-acre farm from Mazon last spring and they have 250 hogs on the farm from which they have selected forty for this sale. They cultivated 180 acres of corn this year and over 180 acres of small grain, besides having cared for their herds of Durocs and Red Polls. Gardner is south of Dwight, on the C. & A. and on the Big Four between Seneca and Kankakee. All trains will be met on sale day and buyers will be taken to the farm, which is only two miles from town. You will be entertained and if you want to buy some good sows write for a catalog, mentioning The Homestead, and arrange to attend this sale. H. E. Browning will represent The Homestead and will care for any bids sent him, in care of Menaugh Bros. See advertisement elsewhere in this paper.

Washington's Birthday Sale by Jas. Lawler.

James Lawler, Clare, Iowa, sells Poland China bred sows at his farm, a half mile south of Clare, on Washington's birthday, Saturday, February 22d. Clare is on the M. & St. L. north of Tara and trains run so one can make the trip easily and get home that night. It is only a short drive from Barnum, on the Illinois Central. Mr. Lawler has heading his herd two boars that are the equal of any two boars in service in most herds. They will stand as well as any in their type, size and development in essential points. Miller's Choice by Choice by Chief Leader, out of Tecumseh Lady by Miller's Tecumseh, is a boar that last summer weighed 900 pounds or better easily. He has a big frame and is as evenly made as any big boar, and there are only one or two that are bigger right now. Chief Price A., the other boar, is by Chief Price 2d, dam Mollie A. by A Wonder 107353. Both these are big boars and the gilts by Miller's Choice, bred to Chief Price A, are as desirable big-type breeding as will be offered this year. This isn't all the good blood in the herd, by any means. There are A Wonder sows, Big Bone breeding and all have breeding of merit. Mr. Lawler has not made any attempt to boost things much in his herd, but the hogs are all there and are equal to those of many a one much better known. No one who is not old in the business often gets two better boars to stand at the head of their herd than these and there are sows and gilts in th sale that young breeders this year want to get in on. Send for the catalog of this sale and if you are not able to get there on Saturday, February 22d, and send your bids to Ray L. Gribben, Homestead representative. Address Jas. Lawler, Clare, Iowa.

Jones' Poland China Sale.

A stockman who has a greater interest in the pure-bred live stock business than the dollars and cents that are in it is Orville O. Jones, York, Neb. He breeds Poland Chinas, Short-horns and Polled Durhams and Barred Rocks, because they are profitable as a matter of course. Yet a man with the business ability that is possessed by Mr. Jones might easily earn as much money in other lines of endeavor, but in the production of pure-bred stock he feels he is more benefit to society at large and that the country is better for his having been here. The same may be said of his farming operations. His land is richer and more productive each year. He eliminates all unnecessary expense in the maintenance of farm and flocks. He has a definite system to all farm work and every extra step and useless move is done away with. He employs the very best machinery for all work and a part of this equipment is the pure-bred live stock and poultry. The highest efficiency is demanded of everything and only such animals as show good records are maintained. The loafers and star boarders are discarded early in the race. In short, Mr. Jones is one of the model farmers of central Nebraska and employs only straight business methods in his undertakings. The writer believes that there is an increased money value to stock produced under these conditions and we would like to ask Homestead readers if the same is their opinion. We believe that the Poland China bred sows that will be sold at the Jones farm on February 21st are the practical, money-making sort and the writer would like to see a good attendance at this sale. We believe a trip to this farm is worth while. Look this Poland China offering over and see if there is not good values to be had. Send for catalog today and mention The Homestead when you write.

Madison Spencer's Sow Sale.

On February 24th, at Audubon, Iowa, Madison Spencer will make his annual Duroc Jersey sow sale and he will sell forty head of very good ones. Mr. Spencer is one of those breeders who always puts up a good offering in splendid condition and fed in such a way as will do the man good who buys them. He has drawn on sixteen of his best yearling and tried sows and twenty-four spring gilts and there are not many offerings that will be much better than he will sell in this sale. He is selling two daughters of old Massena Chief that are about as good as that well-known boar ever sired. Then there is a good daughter of H. A.'s Choice Goods, Proud Col., Col. Willetta and West King and all of these are bred to his old boar, Crimson Chief, that has proven one of the best breeding boars he ever owned. This old boar, Crimson Chief, is a son of the champion boar, Crimson Wonder Again, and out of Chief's Last Pansy, one of the best daughters that old Ohio Chief ever sired. He is also selling a good tried sow sired by Crimson Chief and she is bred to M. S.'s Pilot Wonder. He is selling an unusually choice lot of spring gilts, among which are five by his splendid boar, King The Col. 2d; two by old King The Col., the sire of Col.

OAKLAWN STOCK FARM BREEDS AND IMPORTS

PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

We have enjoyed an excellent trade in stallions and mares during the past few weeks and we believe the main reason is because we have had a class of horses that met with the approval of good horse judges. The accompanying illustration is a good likeness of one of the stallions we have for sale and will give you an idea of the high character of stallions we import and breed. Our winnings at the Iowa State Fair, 1912, where we made our first exhibit, were given in a quarter-page advertisement in the January 16th issue of The Homestead. Our last importation of stallions and mares arrived in November and these are now in nice condition and we willbe glad to show them to prospective purchasers. Our horses have the bone, size and draft qualities that all the horsemen like. They are a clean-limbed, sound, good-acting lot of horses and we can please anyone in need of a high-class stallion or mare. I treat my customers right, which is shown by the fact that I have sold men their third and fourth stallions. I will make prices that will save you money if you will give me a chance. Visit or write me, mentioning The Homestead.

GEORGE EGGERT - - - NEWTON, IOWA

L. M. MONSEES & SONS' 35th AUCTION SALE

at

Limestone Valley Farm

SMITHTON, MO.

Tuesday, March 4, '13

35 Head of Jacks

24 Head of Jennets

All black, with perfect white markings, ages 4 to 6 years, 15 1-4 to 16 hands standard measure, with as much bone and quality as possible to be found in this number of jacks.

WE GUARANTEE

This the best offering of the year from any farm, breeder or company. All registered and guaranteed as represented. If interested please write for fine illustrated catalog with pictures of practically the entire offering. Address, mentioning The Homestead.

L.M.MONSEES & SONS

Smithton, Mo.

Gano; four by M. S.'s Pilot Wonder, and others by C. H.'s Special, Crimson Chief and other well-known boars. Mr. Spencer is using three splendid boars in his herd, viz.: Crimson Chief, a son of Crimson Wonder Again; King The Col. II., a son of old King The Col., and M. S.'s Pilot Wonder, a son of A. F.'s Pilot Wonder. These boars have proven excellent breeding boars and are good individuals. The Madison Spencer offering is a good one and one that we can recommend to those who are looking for the best in Duroc Jersey sows. Write Mr. Spencer at once for a copy of his catalog and kindly mention The Homestead. Bids sent to C. C. Carlin or M. T. White, Homestead representatives, in care of Mr. Spencer, will be properly handled on day of sale.

Choice Hereford Herd Bull Propositions.

On page will be found the advertisement of Ben Broughton, Lake View, Iowa, who is offering some splendid young Hereford bulls that are of the strictly herd bull kind, and the breeder who is going to want a good bull to place at the head of his herd should make it a point to see these at once. He has five first-class bulls, three of them sixteen months old, one fifteen and one fourteen months old. These are well grown and are lusty individuals and have the characteristic Hereford markings. Three of these are dark red and the other two medium red. He has no light-colored ones. Three of these bulls were sired by Beaumont Jr. 233039, one of the best bulls of the breed today. He weighed 2,350 pounds in his breeding form and is very deep and smooth, with a broad, level back, a characteristic that he invariably transmits to his get. His sire was Beaumont, Stewart & Hutcheon's great sire and show bull, and his dam, Beau Queen, was junior champion at the International. On the dam's side of these three bulls you will find they are sired by the noted show and breeding bull, Dudley, and this bull, with ten of his get, won twenty-two premiums at the Iowa State Fair in 1907 and was state champion, defeating the bull, Preceptor, that afterwards won the senior championship at the International. The other two bulls are sired by Lord Dudley, a bull that always won first place wherever shown, and their dams are by Beaumont Jr. The blood of old Dudley is intensified in these bulls and they will mature into 2,200-pound bulls or better. Those who are wanting a good bull to head their herd should see the Broughton bulls at once because he has some good ones for sale.

Miller and Herr's Sale.

On February 19th Miller and Herr, Lima, Ohio, will sell seventy-five head of bred Duroc Jersey sows at public auction. The sale will be held at the Miller farm near Cairo, Ohio, on the traction line. A number of the sows will be bred to Helen's Chief, probably the greatest living son of Ohio Chief. Others will be bred to King's Col., Volunteer, Superba, Col.'s Pilot Wonder, Highland King, B. & C.'s Col., Crimson Col. and Defender King. The sows are sired by some of the best known boars of the breed and are in excellent condition to produce good litters. Dr. Herr sold an interest in his herd to Mr. Miller last fall and they have decided to put a number of the very best sows they own in this sale. Thied brood sows, fall yearlings and spring gilts make up the offering. Dr. Herr has always had good sales and has purchased sows bred to the most noted boars of the breed. It was in his sale last fall that a litter was sold for $1,100 and there will be many in this sale as good as those. They will offer some spring boars sired by Defender, Highland King and Superba and some fall pigs of both sexes sired by Defender, Crimson Chief and Royal Instructor. This season is a good time to buy a herd boar and grow him out until next fall, when you are ready to use him. Prospects are good for the hog business during the coming year and it is a wise man who will prepare for it in advance. Attend this sale and purchase some of these good sows and be ready to reap the harvest next year. Dr. Herr has been a good buyer and will appreciate the attendance of breeders. If you cannot attend the sale send a bid to H. E. Browning, Homestead representative. For a catalog address S. J. Miller, R. 8, Lima, Ohio, or Dr. Herr, Elida, Ohio.

THE MARKETS.

Union Stock Yards, Chicago, Ill., February 7th.—Another week of moderate marketings has saved the beef cattle trade from severe treatment at the hands of buyers. Only about 44,000 cattle have reported at Chicago this week, a supply 6,500 short of the same week last year, but it has proved ample for requirements at the opening of the Lenten season and buyers say that the market will need another week of light receipts to put the dressed trade. The country has displayed good judgment in holding supplies down for the past two weeks, as in spite of that fact good to choice bullocks selling above the 8-cent line have declined 10 to 15 cents and the light, cheap cattle, which are now enjoying packer preference, have only advanced that much. One of the chief reasons for the sluggish tons of the market is that although values of good beef cattle have declined $1.50 to $2 per hundredweight from the high spot last December, the consumer is not known to be getting any benefit from the reduction. The retailer needs little provocation to put prices up, but is very reluctant to take anything off.

Hog trade conditions are in striking contrast to the comatose condition of the cattle market. A sale of hogs at 8 cents at mid week was scratchy, but big packers who refused to countenance the 10 to 15-cent advance that shippers and speculators made possible on Wednesday and who consequently bought practically nothing on that session, have since been forced by sheer necessity to buy freely and today were as avid bidders as anybody at the highest prices paid within nearly three months, a lot of light and butcher weight hogs reaching $8 and an extreme top of $8.05 being established. In five days this week only 448,000 hogs have reached the eleven principal markets, a decrease of 114,000 from like period last week, which ought to be convincing to killers that a 7-cent market in the country will not fill the hopper at primary receiving points, as packers tried to make themselves and others believe last week.

Despite strenuous efforts on the part of packers to keep the lid clamped down on live mutton values, light receipts east, continued moderate supplies in the West and colder weather which has been favorable for an improved consumptive demand, have been strengthening factors and the market has recovered much of its recent decline, the week closing with lambs fully 25 cnts higher and sheep 25 to 40 cents higher than a week ago. The latter are now back within 25 cents of the season's best prices and lambs are within 50 cents of the high spot. The supply of fed western ovine stock in Iowa and other corn-belt territory has been pretty well cleaned up and little native stuff is now available. Colorado shipments are now beginning to come quite freely and there will be a lot of them, but the supply promises to be strung out until June and a high level market during the remainder of the winter and the early spring is practically assured, many well-posted traders expressing the belief that shorn lambs will sell in March and April as high as wool skins are now going. Wooled lambs of prime class made $9 here today and feeders will have no logical basis of complaint if current prices are maintained. Relative to lambs, sheep are still selling low and the price spread between the two classes promises to narrow considerably within the near future.

BEEF STEERS.

The 9-cent quotation on prime heavy fed steers is in doubtful standing. Several loads of ripe cattle made this price during the first half of this week, but toward the close buyers secured an equally as good class at $8.85 and showed no hunger for them at the price. "Cheap" beef has the call and while 10 to 15-cent declines have been enforced within the last fortnight on everything selling above 8 cents, except a few choice handy weights, the low and medium-grade killers now selling largely from $7 to $7.85 have advanced as much. Below $7 steers selling for slaughter are a rough or half-fat off-colored class that feeder buyers, who are paying up very close to fat cattle prices, do not want. Weight and quality were seldom of so little merit in a load of bullocks as at present. A larger proportion of qualitied, strong-weight cattle has been included in receipts this week than last, this accounting for more sales above $8 rather than to price improvement, for good fat cattle have been notoriously hard to sell since noon Wednesday. The spread has narrowed down until a gap of 75 cents separates plain from good dressed beef stuff. A strictly good load of bulocks is now needed to make $8, while almost anything that will bleed will bring $7.50. Some plain, 1,428-pound steers sold late this week at $7.90, while 1,025-pound Hereford long yearlings sold at $8. Eastern competition is limited and there is no sign of revival of export trade. The market will need careful nursing for the next few weeks to hold present prices, though cattle on feed are in stronger hands than recently and with moderate supplies some little improvement is not improbable. Quotations:

Prime steers, 1,450-1,700 lbs	$8.75@9.00
Choice steers, 1,230-1,400 lbs	8.20@8.70
Good steers, 1,230-1,300 lbs	7.60@8.10
Plai nto fair beef steers	6.80@7.50
Fancy baby beef yearlings	8.25@8.60
Good to choice yearlings	7.60@8.20
Medium to good yearlings	6.90@7.50
Common to fair yearlings	6.50@6.80
Inferior steers, 850-950 lbs	6.10@6.50
Common steers, 750-850 lbs	5.90@6.30

BUTCHER STOCK.

Fat, handy-weight heifers have been more popular than anything else in the butcher cattle trade this week, probably because of their scarcity, and they have advanced 15 to 25 cents, while good to best fat cows have improved slightly in value, but low-grade butcher cows have held barely steady and canners and cutters have declined 15 to 25 cents from their recent relatively high level. Light butcher bulls are holding steady, but there has been a weaker turn the last few days in the trade on bologna and heavy beef bulls. Bologna and canning bulls are still very high, however, and selling on an agreeably surprising basis to most shippers. Calf values have advanced 25 to 50 cents this week under the boosting influence of light receipts, but sellers see breakers ahead in the event of any material swelling of the supply. Most of the right good to choice vealers sold today at $9.75 to $10.25. Fat strong-weight and heavy calves were seldom if ever scarcer or higher than at present. Quotations:

BEEF COWS.

Choice to prime fed cows $6.25@7.00

Peter Mouw, Orange City, Ia.

Biggest Poland Sows, Feb. 19

70 MATURED sows and yearlings selected from the foremost big-type herd. I have never sold them bigger for their ages.

Look at this list of boars; I have bred them or their immediate ancestors: **BIG JUMBO, Chief Price, Fairfellow, Longfellow 2d 52999, Longfellow 7th 95747, Long Wonder 85533, Long Wonder 90693, Surprise Wonder 4th, Smooth Big Bone, Black Big Bone, Big Knox, Big Orange, Long King, Long Orange, Smooth Wonder 2d., Big Jones, Big Wonder, Boyden Jumbo, Peter's Jumbo, A Wonder 107353** and many others that have made this type famous.

Sows bred to Black Big Jumbo, Square Jumbo, Long Orange, Big Hal, Tecumseh Jumbo, and by boars of similar breeding. This is an offering of great brood sows, roomy, stylish, showy and **all big.** Buying here means getting big blood at its very foundation. Cols. J. A. Benson and Ira Cottingham, auctioneers. Ra L. Gribben, field man. Address

PETER MOUW - - Orange City, Iowa

Crow's Type Poland Chinas

WEBB, IOWA, February 21, 1913,

55 HEAD of bred sows and gilts by Crow's Kind 57395, Big Surprise 48274, Hadley Expansion 51540, Big Orange, King Mastiff and others. Bred to Crow's Kind, Big Surprise, Big Porter, Straight Edge and Brilliant. If you want sows that possess **utility** and **commercial value** in highest degree, attend this sale. I am selling the heaviest-boned blood lines and the hogs to match. Stretchy, motherly brood sows in condition to farrow big litters and raise them. These hogs will fatten at any age but will grow largest of any breed. They carry a great finish when properly fitted, have wide backs and are well ribbed and stand on short pasterns and best of feet. We are not booming hogs, but are selling stock that make good. **Ask our customers.** We sell strictly on merit, and that this is no empty claim is proven by our record of twenty-three years. These are the owner's statements and he makes them good. Ray L. Gribben, of The Homestead, will attend the sale. Let him buy you a sow. We guarantee satisfaction. Please mention The Homestead. W. R. Ritchie, auctioneer. Address

W. J. CROW - - - WEBB, IOWA

W. E. ZIMMERMAN'S SALE

BIG-TYPE POLAND CHINA

BRED SOWS

Neola, Iowa, Feb. 22

40 HEAD---Tried Sows, Yearlings and Gilts---40

I am selling 3 daughters of Big Orange, 2 daughters of Big Buddy, 3 daughters of Big Wonder, 2 daughters of A Wonder's Jumbo, others by Chief Price 2d, J.'s Chief, Cloverdale Hadley, Orange Wonder and Mastodon King. Write for my catalog and mention Farmer and Stockman.

W. E. ZIMMERMAN, Neola, Iowa.

H. S. Duncan, Auc. M T. White field man for The Homestead.

J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION

We have all ages. Write for catalog, prices and terms.

Merry King 13229
Imp. & owned by John Leitch, Prop. Avondale Stud Farm La Fayette, Illinois.

J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.

LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10

SELL or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

W. J. FINLEY, - HIGGINSVILLE, MO.

When Writing to Advertisers Please Mention The Homestead

Common butcher cows	4.50@4.85
CANNERS AND CUTTERS.	
Good to choice heavy cutters	$4.25@4.40
Fair to good light cutters	4.00@4.25
Fair to good canners	3.60@4.00
Poor to fair canners	3.40@3.60
Old, thin, weak shells	3.10@3.30
HEIFERS.	
Choice to prime heifers	$6.65@7.50
Good to choice cows	5.50@6.15
Fair to good cows	5.00@5.50
Good to choice fed heifers	6.00@6.65
Fair to good heifers	5.25@6.00
Common to fair heifers	4.75@5.25
BULLS.	
Good to choice bolognas	$5.75@5.90
Light and medium bolognas	5.50@5.65
Feeding bulls	4.25@5.35
Canner and poor light	4.25@4.80
Good to choice butchers	6.00@6.50
Choice to fancy beef	6.25@6.85
VEAL CALVES.	
Good to choice vealers	$9.75@10.25
Fair to good light vealers	8.75@9.75
Strong weight vealers	7.00@8.50
Good to choice stock calves	6.50@7.25
Inferior to fair hvy. calves	4.50@6.00

STOCKERS AND FEEDERS.

Stock cattle look and may be out of line with fat stuff, but the condition is not checking investment demand. Feed is abundant and this is the principal incentive at present for buying stockers. Light-weight, thin young steers have the call, as feeders are imbued with a desire to invest as little money as possible and to have time to "go" on. Fancy yearling stockers sold as high as $7.40 here this week and with the best strong-weight, fleshy feeders, which are making $7.50 to $7.60, show firmness over a week ago, while thin, plain to good light and medium-weight stockers have advanced from 10 to 25 cents and are as high or higher than any preceding time this year. A spread of from $6.75 to $7.15 is taking the bulk of the 550 to 850-pound steers with any show of quality and the good to choice 900 to 1,050-pound fleshy feeders are making $7.15 to $7.40 largely. Below $6.50 the country is having access to a very ordinary class of thin stockers only, good feeding heifers crowding the $6 mark.

HOGS.

Failure of good runs of hogs to develop after last week's bulge in the price list, brooding of shipping demand and elevation of prices to the highest levels reached within a period of nearly three months have brought out a lot of bullish sentiment in the trade the past week concerning the course of the market for the next sixty days. Top and average prices today showed a 30-cent advance over Friday of last week, choice light shippers reaching $8.05 and a general average price of $7.93 being made. Choice 170 to 210 pound weights are now commanding a slight premium over the best heavy and there is confident prediction that light hogs will go to a very substantial premium as the season works along. It has been a weight-making season and both pigs and light hogs are already scarce, while fresh meat demand is broad. Packers profess not to be worried about filling the lard kettle, as they expect a big run of fat sows after the spring pig crop has been weaned. Chicago receipts this week have fallen 33,000 short of last week, but shippers have increased their purchases here 8,000 head, taking more than 35,000 during the past five days, or practically one-fourth of the receipts. Today's market closed strong at the following prices:

Bulk of sales	$7.85@8.00
Mixed, 215 to 250 lbs	7.80@7.90
Mixed, 170 to 200 lbs	7.85@7.95
Medium weights	7.90@7.95
Light butchers	7.95@8.05
Heavy butchers	7.90@7.97½
Light butchers	7.95@8.05
Heavy shipping	7.90@8.00
Heavy packing	7.70@7.85
Rough heavy packing	7.55@7.70
Throwout packing sows	6.90@7.45
Fair to choice light	7.85@8.00
Light-light, 135 to 165 lbs	7.65@7.90
Pigs, good to fancy	7.25@7.75
Pigs, inferior to fair	6.65@7.20
Boars, poor to good	3.50@4.75
Stags, subject to dockage	8.10@8.50
Government throwouts	4.00@5.75
Government pigs	2.00@3.50

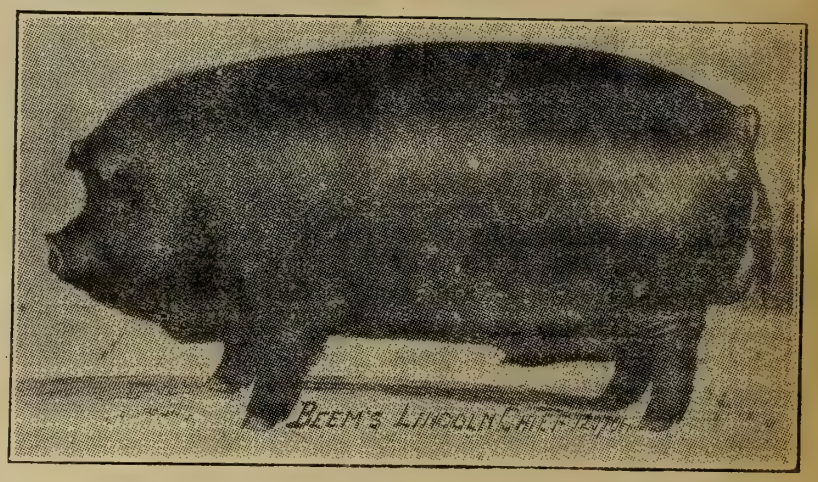
SHEEP AND LAMBS.

Live mutton values have recovered fairly from recent declines and bid fair to hold closely to current levels for the next week or two at least. A choppy trade between now and April is probable, but the supply is now for the most part in the hands of big feeders and can be easily controlled. As trade sentiment is reasonably bullish any declines registered will probably have the effect of abruptly checking the marketing. Prime fed western lambs and a few of the best natives sold here today at $9 to shippers and city butchers. Packers sidestepped the best grades in an effort to hold down tops, but bought a lot of in between to good killers at $8.50 to $8.85 that were relatively high. Good to choice light yearlings are worth $7.50 to $7.85 and bulk of the good matured wethers sold today at $6 to $6.10, with some light Colorado Mexicans touching $6.35 and a few two year olds $6.50. Fat ewes are selling largely at $5.25 to $5.65, depending on weight, fat handy weights having the call and selling to the best advantage. Feeding stuff continues very scarce and that trade is a narrow one, with prices holding firm and many orders going unfilled by reason of lack of supplies. Quotations:

Lambs, good to prime handy	$8.65@9.00
Lambs, good to prime heavy	7.85@8.75
Lambs, fair to good natives	8.35@8.75
Lambs, common to fair	7.75@8.35
Lambs, culls	6.25@7.50
Yearlings, fair to choice light	7.25@7.85
Yearlings, fair to ch. heavy	6.65@7.50
Wethers, good to prime	5.85@6.15
Ewes, fair to best handy	5.25@5.65
Ewes, fair to choice heavy	5.10@5.50
Ewes, culls	3.25@4.25
Bucks	3.50@4.00
Lambs, feeders	7.00@8.10
Wethers, feeders	4.75@5.20

IN AND AROUND WISCONSIN

MORE and more as they realize the value of bred-for-production live stock Wisconsin farmers are developing and and improving their studs, herds and flocks. With no class of stock raised upon Badger state farms is this more true or noticeable than with dairy cattle. Herds of Guernseys, Holsteins and Jerseys, three of the most popular dairy breeds, are to be found in practically every agricultural county of the state and in many localities are excellent herds of Brown Swiss and Ayrshire cattle. Reports of transfers of breeding stock sent to the offices of The Wisconsin Farmer regularly by the secretaries of these various associations indicate that Wisconsin farmers are purchasing as many or more breeding animals than at any time in the past. The last report submitted by R. M. Gow, secretary of the American Jersey Cattle Club, indicates the purchase of nine pure-bred and registered bulls and four cows in a single week. Purchases were made in that time by the following Badger state breeders: Z. Matteson & Son, Clintonville; Lauramoore Farm, Lake Geneva; L. N. Sargent, Mukwonago; H. C. Taylor, Orfordville; Fred William Ochs, Haven; O. C. Brendum, Westby, John Stuckey, Rice Lake; William Zahn, Augusta; Bible Brothers, Cazenovia; Milo Sullivan, Mindoro, and C. M. Everson, Lodi.



The accompanying illustration is that of the great Duroc Jersey boar, Beem's Lincoln Chief. Many sows bred to him will be sold in the Geo. Davis & Sons sale at Milford, Neb., February 21st. Arrange to attend.

Whether improved roads can be most economically built by contract or under the day labor system will be one of the important topics discussed at the second annual road school of the Wisconsin Highway Commission which will be held in Madison from February 18th to 21st. The men who will take part in the program are practical road builders and have had the benefit of one or more years' experience in constructing highways under the Wisconsin Highway Commission. Arrangements have been made for exhibitions of moving pictures showing the construction of concrete roads, brick pavements, and the various means of grading and surfacing macadam roads. There will be an exhibition of

PERCHERONS, JACKS AND JENNETS

AT AUCTION, AT

Kirksville, Mo., Thursday, March 6th

20 Head Imported and American-bred Stallions and Mares.

25 HEAD Mammoth Black Jacks and Jennets

STALLIONS range from 1,800 to 2,000 pounds, are a tried and proven lot of blacks and dark grays. An exceptional lot of mares safe in foal. The second-prize 2 year old 1911, and first-prize weanling, 1910, at Missouri State Fair are included. The jack and jennet offering is superior in every way. The blood of old Hanibal, Planter and Clearmont predominates. Send now for catalog, mentioning The Homestead.

Col. Geo. P. Bellows, Auctioneer. **S. J. MILLER, Kirksville, Mo.**

BLOEMENDAAL--KORVER BROS.

ALTON, IOWA,

TUESDAY, FEBRUARY 18

50 BIG Poland China bred sows, including some extra choice yearlings and matured sows and gilts of the same class. Sows by Big Orange, Long King 2d, Big Wonder, Long Orange; gilts by Big Black Jumbo (one of the biggest), Mouw's Chief, A Wonder A, Mastodon Wonder and Big Wonder. Service boars, Big Black Jumbo, Big Wonder by Ellerbroek's A Wonder, Mouw's Chief, Gerstdale Wonder and Big Jones Again. Sows strongly bred in choicest big-type lines and a big, deep, broody kind of matured sows all through. Fall sows of champion show type. Gilts grown out well, but not so fat they won't do well anywhere. Look over these in the catalog: Mollie C., Mollie B., Prospect Lady, Smooth Lady, Miss Orange 3d and Big Wonder's Girl. Cols. H. S. Duncan and J. A. Benson, auctioneers. Ray L. Gribben, field man. Send now for catalog. Sale day before Peter Mouw's. Address

G. J. BLOEMENDAAL or KORVER BROS., ALTON, IOWA

JOHN F. HOLST'S

SALE CHESTER WHITE BROOD SOWS

DENISON, IOWA, THURSDAY, FEBRUARY 27, 1913

40---HEAD---40
23 yearlings and tried sows, 17 choice gilts

THE BEST lot of Chester White sows ever sold in Iowa

THESE are sired by Perry, a grandson of old Combination; Young America; Fancy Boy, a son of the great Keep On, and other noted boars. These are bred to Combination III., Ike and Fancy Boy, my three herd boars. I am selling a great lot of sows in this sale. C. C. Evans, auctioneer. C. C. Carlin, field man for The Homestead. Write for catalog and mention The Homestead.

JOHN F. HOLST, JR., - - - DENISON, IOWA

Dispersion Hereford Sale

PEORIA, ILL., THURSDAY, FEB. 27th

46 HEAD--7 BULLS Including my herd bulls, Bondsman by Disturber and Perfection 2d by a son of the champion, Perfection. This offering will comprise a most useful lot of well-bred cattle, strong in the blood of Disturber, Beau Donald, Perfection, Corrector, March On and other great sires. Ten cows will have calves at foot. I have been breeding Herefords for twenty-two years with pleasure and profit, and were I not making a change in my farming operations these cattle would not be for sale at any price. Send for the catalog, mentioning The Homestead. Colonel Reppert, auctioneer. This sale follows that of W. T. McCray, at Kentland, Ind., February 26th, and can be easily reached from there. Address

THOS. E. McCARTY, PRINCEVILLE, ILL.

PARKER'S SHORT-HORN SALE

MIDLAND CITY, ILL., TUESDAY, FEBRUARY 25

38 HEAD, including 7 good young bulls by Victor Robin, a grandson of Imported Cock Robin, also included in the sale. Several daughters of Cherry Grove Banff 51st, by imported Lord Banff, and bred to Victor Robin, are listed. The cattle are the best American sorts, topped out by Scotch bulls, the cows are all strong milkers, and buyers will find them a good useful lot of cattle. Send for the catalog, mentioning The Homestead, to

R. M. PARKER, Midland City, Ill.

Cols. Jones, Rolofson, Harmon, auctioneers. On Vandalia and Illinois Central railroads, between Peoria and Decatur.

HOMEWOOD STOCK FARM **PERCHERON, BELGIAN, SHIRE STALLIONS AND MARES**

Now is the time to buy a good stallion or mare. We have the kind you have been looking for. Our horses arrived home in October, are now perfectly acclimated and in the best of condition to do you a lot of good. The Percherons are two and three years old with size, bone and draft horse qualities, many of them weighing over a ton and not fat.

Our mares are of the best brood type. All are in foal and plenty of ton mares to select from. Every animal guaranteed sound and a satisfactory breeder. Others say we have the best bunch of two-year-old Percherons they ever saw. You will say the same. Come and see us or write for full particulars. You will find horses right, terms right and prices below others of equal merit. We have also a lot of big, heavy-boned American-bred stallions at surprisingly low prices. Don't buy until you have seen our stock. Homewood is on the main line of the Big Four and I. C. R. R., twenty-three miles south of Chicago. Trains hourly to and from the city.

S. METZ & SONS, HOMEWOOD, ILLINOIS

25 MAMMOTH JACKS, 25 JENNETS

MISSOURI, Iowa and Illinois prize winners in 1912 and others as good 15 to 16 hands high jacks are priced right. They range from two to five years, have big bone, good heads and ears, and are blacks with mealy points. Come and see them or write

DEIERLING & OTTO, QUEEN CITY, SCHUYLER COUNTY, MISSOURI

PAUL'S PERCHERON PLACE

IMPORTED AND HOMEBRED STALLIONS, MARES, FILLIES

Barns adjoining city limits, on C. R. I. & P., C. M. & St. Paul and C. B. & Q. Railroads. Address

WASHINGTON, IOWA.

MISSOURI AUCTION SCHOOL

KANSAS CITY, MISSOURI

THE TERM OPENED FEBRUARY 3, 1913

This is an actual practice term. Get my new free book, it tells how to be an auctioneer

MISSOURI AUCTION SCHOOL, 14th and Grand Ave., KANSAS CITY, MO.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. When writing mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa.**

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW! V. W. HARMS, FAIRBURY, ILLS.

Holstein Cows and Heifers at Bargain Prices

ON account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a car load. All tuberculin tested and bred to registered bulls. Also few registered bulls ready for service. **ROCK BROOK FARM, STA. B, OMAHA, NEB**

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address

C. D. Nichols Live Stock Co., Cresco, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address

H. H. REID, - MARENGO, IOWA.

LAND BUYERS ATTENTION.—In order to close up estate must sell fine Iowa county farm. Located ¾ mile from shipping stations on 2 railroads. Reasonable price. Deal direct with owners. For full information call or address Henry G. Maas, 1223 Rochester Avenue, Iowa City, Iowa.

FOR SALE—Three French Draft stallions. 1 black, weighs 2,100 lbs.; 2 3-year-olds, brown and black, weigh 1,800 lbs. Jacob Layland, Box 444, Audubon, Ia.

HAMPSHIRE SWINE.

VALLEY VIEW HAMPSHIRES. Breeding stock, either sex, any age, quality unexcelled, satisfaction guaranteed. Fred Wheeler, St. Charles, Ia.

road machinery and surveying instruments by the various manufacturers which will give purchasing committees an opportunity to learn of the relative merits of the various machines. The Road School will be attended by the staff of road and bridge engineers, the county highway commissioners and the county committees on road construction.

A complete soil survey of Jefferson county, Wisconsin, has been made by the bureau of soils of the U. S. Department of Agriculture and a report of this work will be issued in June. This report will contain a detailed desciption of each type of soil found in the county and indicate the crops which may be most profitably grown upon the different kinds of land. It will also contain recommendations by the department investigators as to the best methods of management and tillage to be practiced on each type of soil in order to obtain larger yields and better quality of crops and at the same time maintain and increase the present fertility.

Wisconsin's record in the production of the world's best barley is yet to be broken. At the fifth National Corn and Grain Exposition recently held in Columbus Square Oderbrucker. Barley, grown and exhibited by Assemblyman H. E. Krueger, of Beaver Dam, won the championship, as did Wisconsin pedigree barley grown and shown by N. R. Ressler, of Beloit. Sweepstake prizes were also awarded to Wisconsin growers of Dent corn, soy beans, buckwheat, clover and Badger state exhibitors of clover, sheaf grains and alfalfa hay were also accorded very high honors in the contest. This is the fourth consecutive time which the world's championship on barley has been won by a Wisconsin farmer.

The election of a state board of agriculture by delegates representing the Wisconsin College of Agriculture, the Wisconsin State Horticultural Society, the Wisconsin State Dairymen's Association, the Wisconsin Butter Makers' Association, the Wisconsin Poultry Association, the Wisconsin Cheese Makers' Association, Wisconsin Live Stock Breeders' Association, Wisconsin Bee Keepers Association.

TUTT'S CHESTER WHITE
SOW SALE
Marathon, Iowa, Wednesday, Feb. 19th

30 HEAD real choice sows and gilts bred to great boars. Prize-winning propositions and great useful types mark this sale. By Crusader and Counselor and bred to Crusader and Village Boy. A good offering that merits best buyers, Come and get these bargains. W. R. Ritchie, auctioneer.

G. H. TUTT, • Marathon, Iowa.

IOWA JERSEY SALE
Tuesday, February 25th, at 1 O'clock

8 mature milch cows—St. Lamberts with Island Tops
5 first-class heifers from the best American-bred bulls, tracing to Guonon Lad, Golden Fern Lad, etc.
4 bred heifers, close up to imported bulls.
6 bull calves—2 from imported bulls, 2 from Jolly Royal Sultan ($10,000), 2 grandsons of Derry Golden Lad ($11,000). Also grandsons of Carnation's Fern Lad.
9 grades, from calves to cows. Some heavy springers.
Catalog will be out late, if at all, on account of fire in The Homestead plant.
1 ferd bulls are for lease if desired.
For circulars address

B. A. HODGE

Phone Walnut 5712. R. 6. DES MOINES, IOWA

PERCHERON STALLIONS

FOR SALE. One imported 6 year old, one home-bred 4 year old. Extra good ones. Good breeders.

SMITH & BAUMERT.

Postoffice, R. 1, South English. Keokuk county, Ia. Stations—South English and Harper, Iowa.

TOO LATE TO CLASSIFY.

Now is the Time
to buy pig flesh from Spring litters—
BERKSHIRES
All pure Berks from Morgan Farm. Morgan Hogs win laurels everywhere. 50 spring gilts bred or unbred, 30 spring boars. 5 yearling boars. Be sure and write before buying.
MORGAN FARM
Beloit, Wisconsin

ROYAL SOVEREIGN

ONE of the greatest Scotch bulls of the breed is the sire of the young bulls we have for sale. We maintain a herd of heavy-milking cows that are great feeshers. We name farmers' prices on the young bulls. Write us. Address

L. Chestnut & Sons Geneva, Neb.

SHORT-HORNS
FOR SALE OR TRADE

MUST sell by March 1st. My herd of 15 head of Short-horns, 4 cows, 3 three-year-old heifers and 2 choice yearling heifers, all in calf to Count Rosemary, the pure Scotch herd bull. 5 summer calves, 2 bulls and 3 heifers. Will take high-grade draft horses, mare or geldings, or give terms. No land.

C. H. DRAKE, HAZLETON, IOWA.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

W. C. KENYON, - Elgin, Illinois

Pleasant Hill Herd Aberdeen Angus

TO close out have for sale 8 cows, 2 two-year-old heifers, 7 calves, 5 at foot. Also herd bull. Benton N. 134802, 3 year old, was champion as a yearling at the N. Iowa fair. Address, mentioning The Homestead, J. Nissen, Meservey, Gerro Gordo county, Iowa.

D. S. POLLED DURHAMS

BULLS, 10 to 18 months old, all red, good individuals. Herd established 18 years. Prices reasonable. Write what you are in need of. Farm within town corporation. Address

L. L. HENNINGSEN'S SONS, Dike, Iowa.

REGENERATED Swedish Select oats. Recleaned 50c bu. Mandscheuri barley 75c. Clover and Timothy seed. Samples. B. S. Strayer, R.1, Hudson, Ia.

FRED SCHAEFER & SON'S SALE OF STRAIGHT SCOTCH SHORT-HORNS
AT ESTHERVILLE, IOWA, FRIDAY, FEB. 21st

60 HEAD of cows and heifers, with richest Scotch blood, a string of Duchess of Glosters of about a dozen Orange Blossoms, Butterflys and others of the same excellent character. Will sell **Straight Goods** an exceptionally good son of the Carter's **Choice Goods** one of the good breeding sons of the famous **Choice Goods** and out of Butterfly Rosemary, dam Imp. Rosemary. This bull has sired tops in other sales, and is a topper himself. Cows of breeding age all with calf or bred to this bull. Young bulls in the sale, all good ones and by this bull, are worth your investigation. The young stuff by Straight Goods is extra choice. Send for catalogs mentioning this paper. **Sale to be held at Estherville, Iowa.** Address

FRED SCHAEFER & SON - - - RALEIGH, IOWA

POLAND CHINA SWINE.

W. H. COOPER, LIVE STOCK AUCTIONEER

THE fact that I am selling for many of the best breeders of today is ample evidence of my ability to get the value of your property. I am arranging sale circuits, making dates for next season's business, now. If my services are desired to conduct or assist in your sale would be pleased to give you dates and terms.

DON'T FORGET, WE BREED AND SELL BIG-TYPE POLANDS We will sell now some AUGUST boars and gilts, sired by our 860-pound two-year-old boar, BIG BONE 2d, and out of sows weighing 650 to 800 pounds. These at $20 each while they last. If you want some send your check with the order. You can send them back and we will return your money if they don't suit. Can furnish boars unrelated. Address

W. H. COOPER, HEDRICK, IOWA.

LIVE STOCK AUCTIONEERS.

PERRY M. BOUNDS
Auctioneer
COLUMBUS - OHIO

FRED REPPERT
LIVE STOCK AUCTIONEER
Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.
DECATUR, IND.

LEARN TO BE AN AUCTIONEER EARN $15 TO $100 PER DAY
Study at home. Thoro, practical mail course. Endorsed by the peer Auctioneers of the world. Big 40-page catalogue Free. The National Auctioneering School of America, Dept. 218 Lincoln, Nebr., U. S. A.

W. F. STRATTON
Nevada, Iowa
Live Stock and Real Estate Auctioneer.
23 Years' Experience.

GEORGE H. BURGE,
AUCTIONEER,
Pedigreed Live Stock. Mount Vernon, Iowa

B. H. KECK, MT. PULASKI, ILL.
AUCTIONEER
Write for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

C. H. WOOD,
Live Stock and Real Estate Auctioneer,
Valparaiso, Nebraska.

GEO. P. BELLOWS,
Live Stock Auctioneer,
Maryville, Missouri.

J. R. THOMPSON
Live Stock Auctioneer,
Write for terms and dates. Reliable, experienced.
MERRILL - IOWA.

T. C. CALLAHAN,
LIVE STOCK and REAL ESTATE AUCTIONEER
2544 Dodge Street, Omaha, Nebraska.
Both 'Phones.

CAREY M. JONES,
Live Stock Auctioneer,
2856 Washington Blvd., Chicago, Illinois

COL. C. O. LOWREY, Auctioneer
PEDIGREED live stock. Also have new plan for selling real estate. It is a money getter. Send for it today. Also my terms. Address
EDGAR, - - NEBRASKA.

COL. G. W. HALLER, Spencerville, O.
Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates.

50 HEAD POLAND CHINA SOWS FOR SALE 50

WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.

WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address

E. F. ESCHER - . - MANNING, IOWA

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address

R. B. BAIRD, Central City, Neb.

CHESTER WHITE SWINE.

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

ALDEN ANDERSON, ELLSWORTH, IOWA

Anderson's Chester Whites

70 1912 fall pigs, weight 75 to 100 pounds. If you want size, length, and bone with plenty of quality I have them. They are good enough to ship C. O. D. anywhere. Buy a few of these gilts or a boar now. They are priced to sell. Pedigree furnished. Address

ED ANDERSON, R. 2, ALTA, IOWA.

SWEEPSTAKE 28006 WEIGHS 1260, 1ST AND CHAMPION

Boar at Iowa, 1912, heads our herd of Chester Whites. **We ship c. o. d. and pay all express charges.** Choice growthy bred gilts. Catalog free. We also offer for sale Recorded Shire Fillies, and Mares in foal. Write

B. M. BOYER & SONS - - - FARMINGTON, IOWA

Col. W. H. Irwin
Auctioneer

I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.

Harrod, Ohio

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address **E. V. Waugh, Greeley Center, Neb.**

POLAND CHINA BRED SOWS Sows by our 1,000-lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-born bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.

P. S. & S. BARR, - Davenport, Iowa.

FOR SALE

A FEW big-type spring gilts, one fall gilt. Will be sold worth the money. All from matured stock. Weight 225 to 300 pounds, fall gilt near 400 pounds. Also 1912 fall pigs. Write for prices and description. Address W. A. Bissonnett, R. 1, Charles City, Iowa.

Poland China Swine

BIG-TYPE Poland China gilts bred for March and April farrow. If you want something with lots of size and bone with quality. Write me your wants. Prices right. **H. A. Wohlsdorf, Lawler, Iowa**

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address

C. H. PORTER - EAGLE GROVE, IOWA.

For Sale--Big-Type, Prolific Bred Gilts

AT from $35 to $40, and aged sows at $50 to $60, and a few choice September 3d fall pigs at $20. All healthy and the kind that sell at sight. Will sell two herd boars. Address

J. B. HEISEL - GRINNELL, IOWA.

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address

E. J. AUGSPURGER, - PULASKI, IOWA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Iowa

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners.

G. A. WIEBE - BEATRICE, NEBRASKA.

BERKSHIRE SWINE.

BIG-TYPE BERKSHIRES.

5 JULY boars, $15; 5 April 1911 sows to farrow in April, $50 each; 2 show sows as above, $60 each; 5 yearlings, $40; 10 spring pigs, $30. Bred to show boar. W. A. O'Brien, West Wind Farm, Route 2, Reedsville, Wisconsin.

YORKSHIRE SWINE.

LARGE YORKSHIRES Choice breeding stock, from state fair prize-winners. Gilts bred for May farrow to an imported boar $25 each, registered. Pigs, all ages, either sex. Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

Cockerton--Polly Sow Sales

90 Head--The Tops of Our Two Herds 90

February 18th

JAMES COCKERTON - - - - WHITING, IOWA

50 HEAD 50

INCLUDED will be **Long Mollie**, the largest sow that will be sold this year. Her daughter also goes in and she is a hummer. **Six tried sows**, 11 fall sows by the great **Sioux Chief**, **30 spring gilts** by **Big Wonder** and **Orange Jumbo**. These are bred to **Orange Jumbo**, **Big Wonder**, **A Defender** and **Cloverdale Wonder**. If you want them big I have them. We stand back of our hogs and every hog purchased must be satisfactory to buyer. Write for my great catalog and mention The Homestead. Col. W. B. Duncan, Auctioneer. Address,

James Cockerton **Whiting, Iowa**

February 19th

C. C. POLLY - - - - WHITING, IOWA

40 HEAD 40

I AM selling the greatest offering I have ever put up for sale and they are all **cholera immune**. Five of the best tried sows I have ever sold, sired by **Expansion B.**, **Big Victor**, **Chief Price Jr.** and **Choice** by Chief Leader. Twenty head of Lakeside Wonder gilts, the best you ever saw, also some good gilts by Polly's Chief Price. The five aged sows are all bred to **Lakeside Wonder** and others to Marvel Chief, a line-bred Chief Tecumseh boar. Write for my catalog and mention The Homestead. Col. W. B. Duncan, Auctioneer. Address,

C. C. Polly **Whiting, Iowa**

M. T. White will represent The Homestead at these two sales and will care for any bids sent in his care.

STEWART'S SALE OF BRED CHESTER WHITES

ON February 20th I will sell 45 head of the best tried sows, fall yearlings and spring gilts that I have ever offered and this is my sixth annual sale. If you want the large, smooth, deep-bodied type that never fail to make good attend this sale. They will be bred for early farrow to such boars as Crescent 21433 and Iowa Boy 22999, two fine yearlings. I want you to see them sale day. Catalogs ready. Send bids to W. R. Ritchie, auctioneer, in my care.

J. H. STEWART, DICKENS, CLAY COUNTY, IOWA

6TH ANNUAL SALE GRAND CHAMPION CHESTER WHITE BRED SOWS AND SHORT-HORN CATTLE

AMES, IOWA, FEBRUARY 18, 1913

56 SOWS, 3 herd boars, 20 Scotch Short-horns, 5 cows with calves at foot, 6 bulls. Four aged sows, 14 spring and 7 fall yearlings, 31 gilts make up this grand collection of brood sows. Lenora 3d, grand champion sow at 1912 Iowa State Fair, 5 of her gilts, 7 half-sisters and her dam included. Blood of the leading champion sires is represented in this herd. The sows are large, massive ones, with quality, sired by Chickasaw Choice, B. & R.'s Pathfinder, and bred to Hiland Chief and Chickasaw Choice. The second-prize aged boar at Iowa, 1911-12, included. Short-horns have Victorias, Secrets and Narcissus, all straight Scotch. Two herd bull propositions, Iowa Sultan by Scotch Sultan and Juno's Victor by Juno's Heir. Send for catalog which will show you what these good lines are.

Auctioneers, C. C. Evans and H. N. Donhowe. C. C. Carlin, field man.

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SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

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TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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MILKING SHORT-HORNS. Cows that have made a pound of butter a day under official tests. Bulls which carry strong milking strains and are good Short-horn types. Have extra good young stock from these animals for sale. Address

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I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address

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15 SHORT-HORN BULLS

ALL blocky Blood Reds, 10 to 14 months old. Address **J. E. BARR, R. F. D.4, Davenport, Iowa, successor to I. Barr & Son.**

7 GOOD YEARLING SCOTCH AND Scotch-Topped Short-Horn Bulls

FOR SALE at the Pike Timber Stock Farm. Address **Davenport & Mack, Belmond Iowa.**

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.

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9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

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THE best beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and address J. F. ECKER & SON, ROCA, NEB

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1 red roan yearling Scotch Short-horn bull, 1 eight months old black Percheron filly, 1 three-year-old French Coach stallion, 6 choice big-type Poland China gilts. Address Henry Moll, Garner, Iowa.

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Yearlings all sold, have a nice lot of 1912 calves, reds and roans. J. T. Swearingen & Sons, Hedrick, Ia.

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PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on J. C.

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A FEW very choice bulls, old enough for service. Also a number of very choice females. Our herd won numerous first places and champions at the fall fairs. Our prices are very attractive. Addres THOS. L. LEONARD, Beaver Crossing, Neb.

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SOME very choice bulls, good even fleshers, sons by Happy Jack 2d and all out of choice milking dams. The breeding is first class and the prices right. LUKE L. WILES, Platts mouth, Neb

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AVOCA, IA, MARCH 20, '13

50 HEAD—25 bulls, 25 cows and heifers. Send for my catalog. Address

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12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals.

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I HAVE a good thick yearling at $150. A good 2 year old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, if they are good ones. Lamplighter, Earl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa.

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Ten Head of Recorded Hereford Heifers for Sale

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ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129733, Kazlmura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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TWENTY extra choice young cows and heifers, also a few young bulls and one aged Blackbird bull for sale. Popular breeding and attractive prices Address J. A. Amsberry & Son, Mason City, Neb

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WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

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WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today.
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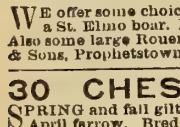

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THE undefeated GRAND CHAMPION BOAR of 1911 and 1912. I have a few good yearling sows bred to MESSENGER BOY, and a few to Capt. Jack's Model by Capt. Jack. Write soon if you want one and mention Homestead.
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I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address
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JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.
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OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address
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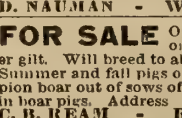

BOARS all sold but two extra good yearlings. I will hold a public sale of bred sows and gilts on January 27, 1913. Write me, mention ing The Homestead.
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FALL and winter yearling sows bred to get of Erlanger 1039. Fall sows and male pigs for sale. Prices reasonable. W. M. Sipherd, Grand River, Ia.

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6 YEARLING sows and 30 spring gilts bred for late March and April farrow to 4 high-class mature herd boars. Strong bone, good size and in moderate breeding condition. Address
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LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address
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WE offer some choice bred gilts. They are bred to a St. Elmo boar. Dams are prize-winner blood. Also some large Rouen ducks. Write to H. Schehl & Sons, Prophetstown, Ill. Satisfaction guaranteed.

30 CHESTER WHITE

SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

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25 bred sows and gilts for sale. Some are show sows and all are as good as can be found. Some gilts weigh over 200 pounds. Bred to an 800-pound Low hog. Earl Bloom, Bridgewater, Iowa.

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.
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CHESTER WHITE GILTS

CHOICE heavy-boned bred to Lewis B. No. 22617 for March and April farrow. Get my price. Address JOE EGELHOF, CUBA CITY, WIS.

I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address
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OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address
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Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see us. E. J. Trumbauer, St. Charles, Iowa.

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THE coming hogs of America; hardy; resis disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
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FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

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Oldest breeder in the state. Pedigreed stock for sale.
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DE YOUNG'S DUROCS

A FEW good gilts and bred sows to sell. Best lines of breeding, King of Col.'s Again, Phallas Col. and Crimson Sol.. sires of majority. Bred to Crimson Climax boar and others of similar good breeding. A. J. De Young, Sheldon, Iowa.

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GROWTHY brood sow prospects by C. Indicator and Long Hero, bred to Grand King by Crimson Climax, and above boars are individuals on which they could be used. Stretch, bone and size specialties. W. J. WENDT, Remsen, Iowa.

At $10 and $15 You can have the pick of our bunch of fall Duroc Jersey pigs, and we also have a number of choice sows for sale. Also some late gilts that will sell at small advance over market. Breeding first class, hogs healthy and all right. Bargains, address today A. A. Martin & Son, R. 4, Box 107, Lincoln. Neb.

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I HAVE 30 large spring gilts weighing 250 to 300 pounds, of Chief's Col. breeding and bred to a son of S. E.'s Premier Col., that I will sell worth the money. If you want good ones write me. Address
CHAS. A. MOULTON, Morrison, Illinois.

BRED SOWS AND GILTS

A GOOD lot of Duroc Jersey gilts, large, lengthy, with good color and plenty of bone, bred to farrow in March; sired by Choice Goods, High Col. and Model Chief; bred to R. J.'s Chief, Harding's Model 5th and King Gano. J. C. Porter, Ogden, Iowa.

WE HAVE A DRAFT of bred gilts that are bred for M'ch and April farrow good enough for a breeder and cheap enough for the farmer. Bred from leading families, mated to best male we have ever owned. Col.-bred hog. For particulars and prices write, phone or come see them. Farm near town. J. W. Troy & Bros., Rose Hill, Ia.

DUROC JERSEY BRED GILTS FOR SALE

BRED for early farrow; ready to ship. If you want bone and size and color we have them. We also have 100 bushels choice Reed's Yellow Dent seed corn. Write or come and see us. Address
D. NAUMAN - WEST LIBERTY, IOWA

FOR SALE Open gilts by Crimson Col. one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address
C. B. REAM - Route No. 6, Lima, Ohio.

KEAN'S DUROCS have length, color, bone and breeding. Bred gilts and yearlings. A few good ones left for April farrow. Priced worth the money. Frank Kean, Mt. Pleasant, Iowa.

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GRAND Champion Intetnational Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
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HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead, J. W. STORM, SEVILLE, OHIO

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WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individually. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first class. Address
ROBT. PRITCHARD, - - - - CARROLL, NEB.

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FOR SALE. A few choice sows bred to Col. Pilot Wonder and Mound's Col. A few extra nice fall pigs, either sex. SMITH & RODGERS, Springfield, Ohio.

LARGE DUROC JERSEY BRED GILTS

I HAVE 25 March, April and May gilts by Daisy's Chief out of dams by Col. Advance, Model Advancer Chief's Col. and others, bred to Model Select by Chief Select Jr. Gilts weigh 250 to 300 lbs. Prices right.
J. H. MORF - - - - - FAYETTE, IOWA

MENAUGH BROS.

GARDNER, ILLINOIS,

DUROCS, POLLED DURHAMS

SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write
MENAUGH BROS., Gardner, Ill.

Duroc Jersey Bred Sows

STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic.
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20 GILTS and SOWS bred for March and April farrow. Good length and bone. Moderate prices to move them soon. S. J. Butts, Mason City, Iowa.

AVERYDALE BOARS and bred sows. Also Silver King corn. A. M. Avery, Mason City, Iowa.

BURTON'S DUROC SOWS AND GILTS

15 HEAD of tried sows, fall and spring gilts. Bred to Cloverdale Chief, a grandson of Model Chief; Lincoln Model 2d, second-prize 6 months pig, Sioux City, 1912. Bred for March and April farrow.
U. G. BURTON, STORM LAKE, IOWA

CLOSING-OUT SALE FEB. 18th—60 Duroc Jersey gilts, 50 Bates Short-horn females, 5 bulls. Gilts by Prince of Cols., Ruberta Crimson and Wonder Col., bred to Col. Tientsin and Chief Muncie. Address THOS. BROOKS, Belmond, Iowa.

OAKVIEW DUROCS. Bred gilts and sows, March and April farrow. Prices right. For 30 days only, fall pigs, either sex, $12.50 to $15 each. Write us mention Homestead. A. Nevins & Son, Modesto, Ill.

FALL PIGS AND BRED SOWS Will be offered for next few weeks at from $10 to $40. White Rock cockerels and W. Holland toms. Address EARL ROBERTS, Ulysses, Neb.

DUROCS Can spare a few choice sows bred for April farrow. Address
L. L. WOODS, - GRINNELL, IOWA.

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BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

McLAY CLYDESDALES MAKE GOOD

McLAY BROTHERS, Janesville, Wisconsin

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.
P. J. EGGERS - Denison, Iowa.

SPECIAL OFFER THIS WEEK.

IN ORDER to move the few horses that I have on hand am naming special prices for quick sales. One splendid gray and three blacks. Would trade one for mares. Can please those looking for a good horse and save them some money. Percherons and Short-horns our specialty. F. A. Egger, Crystal Lake Stock Farm, Sprague, Nebraska.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. MILLER, Route 1, Lucas, Ia.

PERCHERONS FOR SALE Stallion and mares. A Short-horn bull 5 months old. W. H. Miller & Sons, Independence, Ia.

FOR SALE—Duroc gilts bred. Shetland stallion, Ruby's Trinket 10979, black and white 3 yrs. old, half value. Fred Hanks, R. 3, Box 55, Winnebago, Minn

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IF you want the BIG kind come to one of the oldest breeding barns in the state where you will find the big, heavy-boned, black fellows that will do your country good and at reasonable prices. Mention The Homestead and address
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ONE coming three, two coming two-year-old stallions, sired by 2,200-lb. stallion, out of daughters of Georgiana, one of the greatest mares of the breed, won the blue at the Iowa State Fair, producing 18 living colts without a break, three of them state fair winners. They are a wonderful family of show horses, and sure breeders. These young stallions will all make better than ton horses. We are pricing them to sell. Address, mentioning Homestead,
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WHAT KIND OF COLTS

WILL your mares drop this spring; pure breds worth $175 to $275 at weaning time, or grades for which you will be lucky to get $100 at same age? Starting right doesn't cost so much as you imagine, t costs no more to rear pure breds than "scrubs."

Purchase Percherons

Free Bulletin C on request. Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

FOR SALE

HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.
E. P. HAMILTON & SONS,
Garden Grove, Decatur county, Iowa, R. F. D. 2. 23 miles southwest of Chariton.

PERCHERON STALLION

FOR SALE. Seven-year-old black, registered, good breeder, sound, state certificate. Actual weight 1,700 lbs. E. H. Hawbaker, Stratford, Iowa.

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

FOR SALE—Bay Clydesdale stallion, 4 years old. A good individual. A proven breeder out of a family of breeders. Wm. E. Coe, Mechanicsburg, Ill.

REGISTERED PERCHERONS

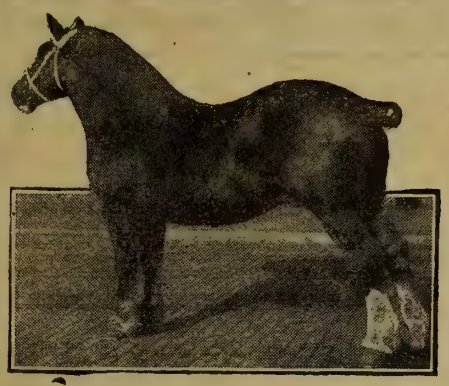
AT AUCTION

AT

FAIR GROUNDS

LINCOLN, NEBRASKA,

THURSDAY, FEB. 20, 1913



THIS sale will include thirty-two stallions and mares, each one selected for this offering and all grown and contributed by the Nuckolls County Horse Breeders' Association. This is not a draft of dealers or speculators' stuff. Everything in this sale is strictly first-class, stallions of known breeding value, others that are very promising. Some of the very best young mares that have been sold at auction this season, either east or west, will be in this sale. It is to the interest of the good horseman to be present. The consignors are Wm. Parr, Frank Davidson, and L. Wall, Ruskin, and J. C. Day & Son, Cadams, and Geo. Barber, Oak, Neb. Mention The Homestead when writing. For catalog or further information address

PERCY BAIRD, Sec'y, Ruskin, Nebraska.

Col. F. M. Woods, auctioneer.

J. O. DUNCAN'S

KY. DUROC BRED SOW SALE

Lebanon, Kentucky, Thursday, Feb. 27, '13

50 HEAD of high-class DUROCS at auction including 36 head bred sows and gilts, 11 fall boars and 3 fall gilts by Defender and Superba. These excellent sows are bred to Professor Good by The Professor, dams by Col. Casey and Bellfounder by Col. King by King of Cols., dam by Chief Orion.

SPECIAL ATTRACTIONS

One sow by Ohio Chief bred to Defender, one sow by Prince Wonder bred to Superba, the $6,000.00 boar

THE sows and gilts are a fine lot and are sired by Ohio Chief, Orion Chief, Prince Wonder, B. & C.'s Col., Tippy Col., Ky. Col., King of Cols. Jr., Garnet Col., Pal's Col. and others. This sale is the day defore the E. S. Mayes, Jr., and McKee Bros. sale at Springfield, Ky. The sales are about ten miles apart. H. E. Browning will represent The Homestead. Cols. Igleheart and Wheeler, auctioneers. Hotel Vaughn (Free), Lebanon, Ky. For catalogs and urther particulars address

J. O. DUNCAN, LEBANON, KY.

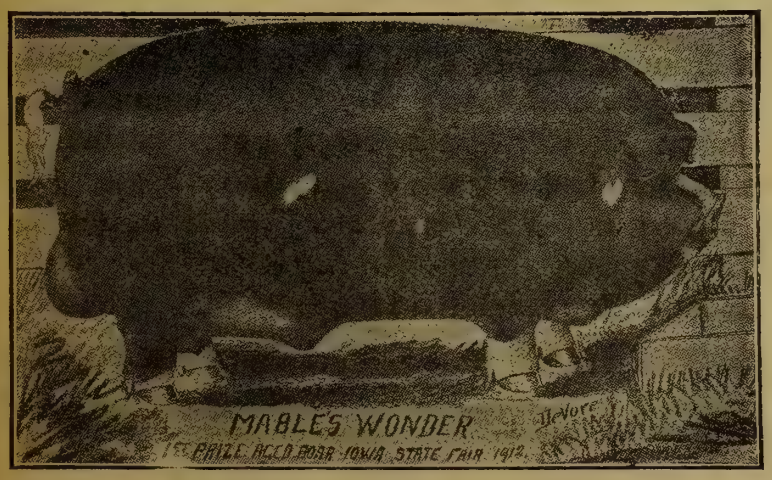
R. W. HALFORD'S SALE

SENSATIONAL, BIG-TYPE, PRIZE-WINNING

POLAND CHINA BRED SOWS

MANNING, IOWA, FEB, 21st

50 HEAD---Unquestionably the Greatest Offering of the Year---50



25 SOWS BRED TO THE SENSATIONAL 1,000-lb 1st PRIZE IOWA STATE FAIR BOAR, MABLE'S WONDER

EVERY breeder and every man who has seen my offering say it is the greatest lot of sows that will go through a sale ring this winter. These are bred to **Mable's Wonder** the 1,000-pound boar; **Long Jumbo**, the 920-pound boar; **Long Price** by Chief Price Again and **Perfect Wonder. Ten of the greatest aged sows** that were ever sold in the West. **Fifteen spring and summer yearlings and fifteen fall yearlings** sired by the most noted big-type boars today in the West. Write for my great catalog at once and mention The Iowa Homestead. Col. H. S. Duncan, Auct. M. T. White, field man for Homestead. Address

R. W. HALFORD, Manning, Iowa.

C. M. PEDERSON'S SALE

POLAND CHINA

BRED SOWS

DUNLAP, IOWA

February, 28, 1913

40 HEAD---11 Tried Sows 14 Fall Sows---15 Gilts 40

I AM selling a grand lot of brood sows in this sale. Daughters of **Chief Price Again,** bred to **Long Orange,** one of the best sons of Big Orange. Others by Gold Dust Wonder, Dude's Sunshine, Big Hadley 3d, Big Wonder, Silver Creek Chief and Reubel's A Wonder. These are bred to **Gold Dust Wonder, Long Orange** and **Defender Again.** Write for my catalog and mention The Homestead. H. S. Duncan and E. T. Malone, auctioneers. M. T. White, field man for The Homestead. Address

C. M. Pederson, Dunlap, Iowa

Dannen and Lowrey will sell

50 HEAD OF PERCHERONS 50

AT MARSHALLTOWN, IOWA

THURSDAY, MARCH 6, 1913

This offering comprises some of the best in breeding and quality ever put through a public sale, some of them having been shown at Des Moines, Sioux City, Dakota and Minnesota State Fairs, winning everywhere. Among them is the four-year-old stallion, Jambameau 82337 (83856), first-prize winner at the great show at Minneapolis, 1912. This offering is young, clean and nearly all imported. Their pedigrees inspected and passed by the French and American governments. Thirty-eight of these are mares, and all old enough are bred to the best imported sires. All stallions offered, with one exception, are imported, and were selected with the same care we would use in picking one for our own use. Address for catalogs

R. C. DANNEN, Marshalltown, Iowa, or H. C. LOWREY, Nevada, Iowa.

Sale to be held in Harmon's sale barn, Marshalltown. Auctioneers, Col. P. McGuire, Col. John Garris.

THE E. S. MAYES, JR., & McKEE BROS.

GREAT DEFENDER SALE

SPRINGFIELD, KY.

Friday, February 28, 1913

20 head of extra choice Duroc sows bred to Defender

10 head of good ones bred to Prince Educator, others bred to Volunteer, Superba, Cherry Tenn. and others. 5 fall boars by Defender, 2 by Superba and 2 by Instructor. The sows bred to Defender are sired by Prince of Cols., King of Cols., Superba, The Professor, John's Ohio Chief, Chief Orion and others. The offering is the cream of the Mayes herd as he has sold Defender to McKee Bros. for $5.000.00. Everybody invited to attend this great sale. H. E. Browning will represent The Homestead. All mail and wire bids should be sent to him at Springfield.

Sale will be held in the E. S. Mayes sale pavilion

Cols. Igleheart and Wheeler, Aucts. For catalogs, address either

E. S. MAYES, JR., Springfield, Ky. or McKEE BROS., Versailles, Ky.

JOHN TRUAX & SON'S

DUROC BRED SOW SALE

SYCAMORE, OHIO,

Monday, March 3d, 1913

50 Head of High-class Animals at Public Sale

28 Head Bred to The Champion, Tippy Col.

22 Head Bred to Oakland Ohio Chief

THESE sows and gilts are sired by Defender, Superba, Orion Chief, The Professor, Col. Beabout, Fancy Col., Cherry King, Jack's Friend, Joe Orion II, Kelley's Pilot Wonder, Highland King, Col. S., Morton's Top Col., Premier Col., Crimson Wonder Again, Tippy Col., Instructor, Volunteer, Col. Prince Again, and others. H. E. Browning will represent The Homestead. Cols. Reppert, Igleheart and Gebhardt, auctioneers. For catalog address

JOHN TRUAX & SON. Sycamore, O.

Trotter's Jack and Jennet Sale

MT. AYR, IA., FEB. 27, 1913

15 Jacks from 2 to 6 years old, the best ever sold in Iowa; **15 Jennets,** all bred to **Keno** and **Jumbo.** An extra choice offering with lots of bone and quality. Send at once for catalog. Address

W. T. TROTTER, - Mt. Ayr, Iowa

Cramer's Grand View Durocs

WE have several choice gilts bred for early farrow that are bred right and must make good. Pricee right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address M. C. CRAMER & SON, Monroe, Iowa.

SHORT-HORNS AND POLAND CHINAS AT AUCTION

on the farm near MONTOUR, IOWA, TUESDAY, FEB. 18, 1913

Fifteen Short-horns, five bulls, ten females. Three good Scotch bulls. One by Prince Consort and out of Scottish Miss by Money Musk, and two other good ones by Prince Consort and of this same family. There are two of these extra good. One cow by Golden King and out of Imp. Daybreak 4th.

Twenty Poland China bred sows. One great litter of five gilts and a boar will sell sired by Colossal, dam Anna Price 10th, also in the sale. This litter will weigh around 350 pounds and are big, smooth and heavy boned. Must be seen to be appreciated. Other good gilts by Big Orange and others. The sow, Great Scot by Colossal, dam by Big King, sells. All are big type and bred to the great young boar, Woodrow Wilson by Wheeler's King Mastodon, a grandson of Mastodon Chief. Write for catalog, mentioning The Homestead. Geo. H. Burge, auctioneer.

A. J. BANKS, Montour, Iowa.

Holbert Horse Importing Company

The World's Greatest Importing Establishment

Percherons, Belgians, Shires, German and French Coachers, Hackneys

Big, ton black and gray Percherons our specialty—Blacks, black-grays, steel-grays and dapple-grays.

Royal Belgians—We import more Belgian stallions than any other firm in the U. S. Bays, browns, roans, chestnuts and blacks.

Shires—The best that old England produces.

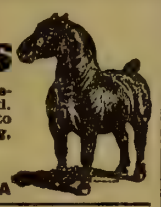
We have at any time of the year more big, ton, high-class Percheron and Belgian stallions than any other firm in the U. S.

If your neighbor is thinking of buying a stallion send us his name and address and we will mail you FREE a beautiful lithograph of our premises, suitable for framing, showing 200 head of stallions.

A. B. HOLBERT, Proprietor and Manager, **GREELEY, IOWA**

VAN STEENBERGE'S

DRAFTERS



40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. Now importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,
OGDEN, IOWA

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

-B-E-S-T-

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

PERCHERON and BELGIAN STALLIONS and MARES

IMPORTED and Home Bred. High-class horses on hand.

CALL AND SEE US.

E. H. Knickerbocker & Son
Fairfax, Iowa.

SHIRES

SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

ED. H. MAGOWAN & SONS, Gibbon, Neb.

Hart Bros.

Osceola, Iowa

Our **1912 importation** now in our stables. A high-class lot of imported **Percheron, Belgian and Shire stallions and mares.** Come and see them.

FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

STALLIONS

Home-bred draft stallions, $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds.

A. LATIMER WILSON, Creston, Ia.

OUR ENTIRE HERD OF 40 SHETLAND ponies for sale at closing-out prices. Address Spivey, Robb & Co., University Place, Neb.

FOR SALE Ten head of Percheron stallions, mares and colts. Address **Ashbaugh Bros., Maynard, Iowa.**

PERCHERON STALLION in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C. W. Chandler, R. 4, Kellerton, Ia.

TAYLOR & JONES

INTENDING BUYERS OF STALLIONS, EITHER

Percherons, Belgians or Shires

should not overlook the fact that We Won, at the Illinois State Fair 1912, **GRAND CHAMPION** Shire Stallion, **GRAND CHAMPION BELGIAN** Stallion, Grand Champion Herd of Best Five Percheron Stallions, Grand Champion Herd of Best Five Belgian Stallions, **FIRST PRIZE** aged Belgian Stallion, **FIRST PRIZE** three-year-old Belgian Stallion, **FIRST PRIZE** two-year-old Belgian Stallion, **FIRST PRIZE** three-year-old Percheron Stallion and Second and Fourth Prize aged Percheron Stallions. **Our Stallions defeated those of all other importers for every Championship in all the draft breeds.** These stallions are all for sale, with many other winners, at prices below what common horses can be bought for at many other importing barns. We also have for sale a nice line of extra good imported and American-bred mares. Send for our booklet containing prices and guarantee.

TAYLOR & JONES, Box 68, Williamsville, Sangamon County, Illinois.

THE Imported Shire Stallion, Severn Flag 12749 (28763), GRAND CHAMPION at Illinois State Fair, 1912, also winner of First Prize and Reserve Champion at the International, 1912.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP. EOLIA, PIKE COUNTY, MISSOURI

PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA

Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.
BOX 30 LINCOLN, NEB.

Percherons

I AM offering some splendid yearling and 2-year-old stallions for sale at popular prices. Address

MONROE AYERS - Shenandoah, Iowa.

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10 Prize Winning Belgians

IMPORTED and home-bred stallions and mares, ranging in age from yearlings to matured horses. Some splendid mares and studs for sale. For particulars address

ED BELL, JR., - SCRIBNER, NEB.

IMPORTER AND BREEDER OF PERCHERONS AND BELGIANS

CUSTOMERS get their money's worth on stallions and mares. Every animal just as represented. Can't be under sold by any firm, considering quality. All young, from yearlings to five year olds. Farms one mile from town. We meet trains.

C. G. GOOD - OGDEN, IOWA

The Best Value

HOME-grown Registered Percheron stallions of substance, 2 and 3 yr. olds, grays and blacks. Big, straight fellows that will pay you. It is worth a stamp and a moment's time writing to know about these. South Central Iowa. Fast trains.

FRED CHANDLER, R. 1, CHARITON, IA.

SHIRE AND PERCHERON STALLIONS AND MARES

IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

IMPORTED PERCHERON AND BELGIAN STALLIONS AND MARES

Also Home-Bred Stallions

I think it is better to have extra good stallions to show when customers come to see, than it is to claim you have them and cannot show. If interested, write or come and see me.

Bell Phone 237 or Union Hotel. On C. B. & Q and Santa Fe Railroads.

J. R. JUSTICE, at Union Hotel, GALESBURG ILL.

IMPORTED BELGIANS

I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.

R. F. FRENCH, INDEPENDENCE, IA

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

WM. GRAFF

Imported Belgian, Shire and Percheron Stallions for sale at all times. Write me, address

MINIER, - - - ILLINOIS

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska

THE GREAT TWO DAYS' SALE HELD AT STEWART, IA.

100---HEAD OF BIG-TYPE POLAND CHINAS WITH QUALITY---100

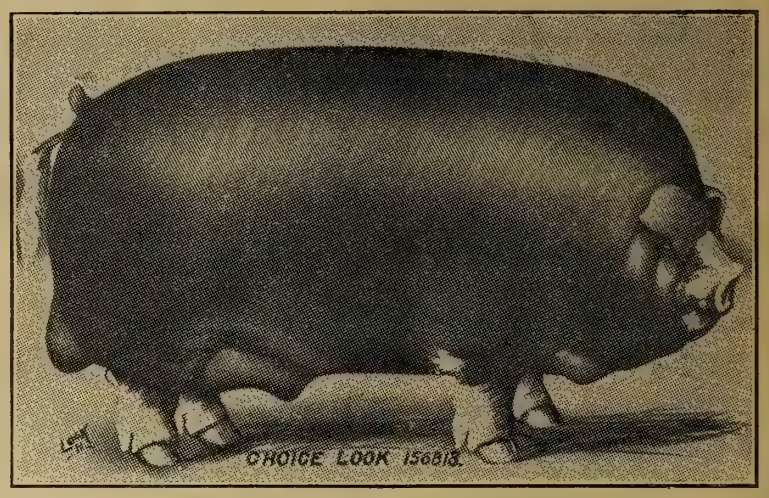
J. M. SHEEHAN'S SALE
MONDAY, FEB. 24, 1913
Sale will be held at farm

50 HEAD—15 tried sows and 35 spring gilts of the most popular big-type blood lines. The entire crop of spring gilts go in the sale. None reserved. Offerings mostly sired by or bred to the 800-lb. yearling, King Wonder, a son of "old" A Wonder and out of the Long King sow, Mammoth Giantess 1st. Others bred to Big Orange 2d, a big robust, heavy-boned son of Big Orange. King Look, a son of the 1000-lb. Choice Look and Big Nelson, a grandson of Pawnee Nelson and out of the famous brood sow, Lady Ohava. This is a strictly high-class offering, possessing immense size and quality. Plan to attend this event. Send for catalog. Address

J. M. SHEEHAN, Stewart, Iowa

Col. H. S. Duncan, auctioneer. M. T. White, field man

W. M. SCHRADER & CO.'S SALE
TUESDAY, FEB. 25, 1913
Sale will be held at farm



50 HEAD—Including all our great herd sows, fall and spring gilts. Also our two great herd boars, Choice Look and Big Improver. The greatest part of this offering is sired by the great and only Choice Look. The best breeding boar we ever owned. These sows are bred to Choice Look, Big Tom Jr. and Big Improver, one of the best pigs sold at public auction last fall. If you want size and quality, plan to attend this sale. Mention The Homestead when writing for catalog. Address

W. M. SCHRADER & CO., Stewart, Iowa

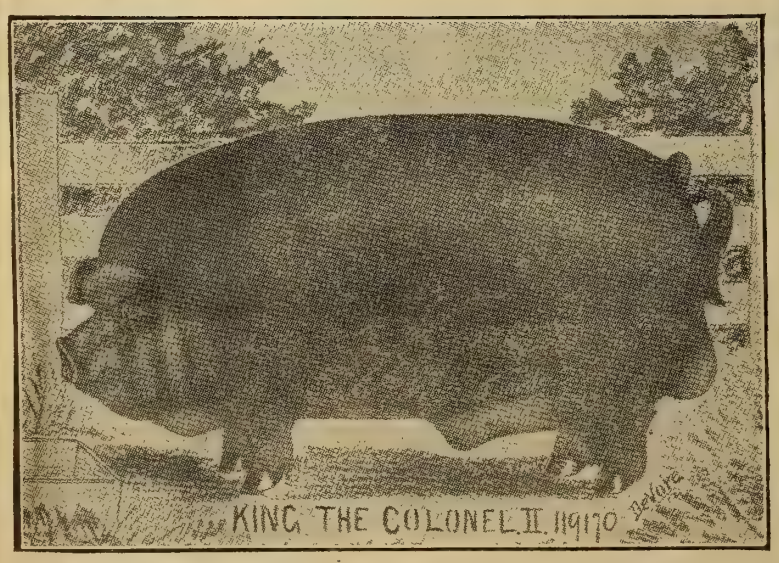
Col. H. S. Duncan, auctioneer.

Bids sent to M. T. White, Homestead representative, in care of above breeders, will be properly cared for on sale day.

MADISON SPENCER'S SALE
DUROC JERSEYS
BRED SOWS

40 Head—Yearlings—Matured Sows—Gilts—40

AUDUBON, IOWA, FEBRUARY 24, 1913



MY GREAT BREEDING BOAR, KING THE COL. II, A HALF BROTHER TO THE SENSATIONAL SHOW AND BREEDING BOAR, COL. GANO

I am selling **16 yearling and tried sows** and 24 spring gilts. Among the matured matrons will be **2 Massena Chief** sows; **1 Proud Col.** sow; **1 H.A.'s Choice Goods** sow; **1 Crimson Chief, 1 Col. Willetta** and **1 West King** sow. These are nearly all bred to Crimson Chief; 2 daughters of **King The Col.**, the sire of Col. Gano; 50 daughters of **King The Col., II.**; and others by **M. S. Pilot Wonder, C. H. Special, Crimson The Wonderful** and **Brighton Wonder.** I am selling a grand offering of well-bred sows and good individuals. Write for catalog and mention Iowa Homestead. Address

Madison Spencer, Audubon, Iowa

Col. N. G. Kraschel, Auctioneer

C. C. Carlin and M. T. White field men for Homestead

J. V. ARNEY'S SALE
ABERDEEN-ANGUS CATTLE

LEON, IOWA
FEBRUARY 27, 1913

40 **HEAD, 30 Cows and Heifers**
10 BULL **40**

INCLUDED will be ten of my choicest **Blackbird** cows and heifers, among which will be one choice Blackcap, three **Trojan Ericas,** balance **K. Prides, Pride of Aberdeens** and **Queen Mothers.** There will be quite a number of my greatest show winners sired by my great breeding bull, **Black Star 2d**; also daughters of such noted sires as **Imp. Earl Eric of Ballindalloch, Imp. Black Jester of Ballindalloch, Imp. Proteros, Baltimore of Glendale** and other bulls that have made Angus history. There will be ten or twelve good young bulls in the sale. Catalog now ready. Write for it and mention The Homestead. Address

J. V. ARNEY, - - LEON, IOWA

COL. SILAS IGO, Auct.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 5th 1912 importation arrived Oct. 29th. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

GALBRAITH'S CLYDESDALES

are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action, size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, DE KALB, ILLINOIS

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of PERCHERON stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars.

FAIRVIEW STOCK FARM

PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK, - - LITCHFIELD, NEB.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA.

PARAMOUNT STOCK FARM

BREEDS AND IMPORTS

PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to Hudson, Iowa, and see Crownover's new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

WILLIAM CROWNOVER - - HUDSON, IOWA

IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

JACKS AND JENNETS

One of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. References: The banks of Lawrence. 40 miles west of Kansas City. Address Al. E. Smith, Lawrence, Kansas

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

NORTH & ROBINSON CO.,

IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE

STALLIONS AND MARES.

50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of Imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

NORTH & ROBINSON CO., Grand Island, Nebraska

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. SEWARD, NEBRASKA.

Protect Your Hogs From Disease!

The Deadly Swine Plague Now Sweeping the Country is Wiping Out Entire Herds in a Few Days

I'll Help You Prevent Your Losses
I'll Get Rid of the Worms in Your Stock
I'll Prove It Sixty Days Before You Pay

NOW is The Time for you to fight the diseases that are robbing farmers and stockmen of millions of dollars.

NOW is The Time for you to put every animal on your place in a strong healthy condition—especially your hogs and little pigs.

NOW is The Time for you to get rid of the deadly stomach and free intestinal worms—the pests that sap the strength and vitality of your farm animals, making them easy victims of cholera and other diseases.

Read these letters. They prove that "a stitch in time saves nine."

"A lot of hogs died in this county from swine plague or cholera. Some of them were within three miles of me, but I have been feeding Sal-Vet, and have not lost a single hog. They are all doing well, eat all I give them and have good appetite for more."—D. A. ROSS, Kingman, Kans., Breeder of Pure Bred Poland Chinas.

"As the hog cholera is prevalent all through this section, I have been feeding Sal-Vet to my hogs. Since then, I never saw them in better condition in spite of the fact that all around me the cholera is carrying them off by the hundreds."
W. J. BROOKS, Diggs, Va.

Hogs ***free from worms*** are best protected against Cholera and Swine Plague and most apt to recover when attacked. Every authority on the breeding and feeding of swine will tell you the same thing. Read the warning by the Editor of the Iowa Homestead in the next column. There is the whole truth in a nutshell. ***Worms are your greatest enemies***—worse than cholera—they are everlastingly stealing your stock profits—weakening your farm animals and keeping them from putting on flesh. And worst of all in times like this when cholera breaks out in your neighborhood, you may lose hundreds of dollars in a few days just because your animals have been robbed of their fighting strength and vitality by ***worms.***

The Great WORM Destroyer

SAL-VET

The Great LIVESTOCK Conditioner

will drive out these pests quick. I'll prove it before you pay—I'll prove it or no pay. I'll prove it on your own farm with the money in ***your pocket.*** Worms can't live where Sal-Vet is used. The dangers of cholera and swine plague are many times ***less*** where Sal-Vet is fed. It is the best kind of cholera insurance you can find. It will put every animal on your place in a thrifty condition. They will gain faster—grow into money quicker and make you more profit. Read my offer and personal guarantee. Then send me the coupon below.

The Editor of the Iowa Homestead Says About Cholera Plague:

We do not desire to place ourselves on record as believing that hogs free from internal parasites cannot take any of these deadly diseases, but on the other hand, we have no hesitation in saying that nine-tenths of the trouble that occurs among hogs is due first to a weakening of the constitutional powers on account of the ravages of worms. Where this is the seat of trouble no system of inoculation or vaccination will for a single day arrest the coming of this profit-destroying scourge, and the lesson to be learned from this is that more attention must be given to the problem of destroying worms while pigs are young if we ever hope to head off these heavy losses or popularize the efficacy of the serum treatment.

Hogs are in the very necessity of the case kept under artificial conditions at the present time. Generally speaking they are confined in relatively small quarters and this is most favorable for the development of parasitic troubles. This being the case we believe that there is not a single set of conditions, under which hogs are kept, found in the grain belt that will justify swine breeders in their failure to administer worm remedies regularly beginning just when the pigs are old enough to take feed from the trough. If a beginning is made then and is kept up at intervals of ten days or two weeks until the pigs are half grown the probabilities are that there will be no more trouble from that source and if worms are eliminated we have no hesitation in saying that nine-tenths of the thumping will be stopped, fever will be almost wholly checked and the way will be paved in an ideal fashion for the so-called serum to accomplish what scientists have proven can be accomplished.

I'll Feed Your Stock Sixty Days Before You Pay

Mr. Sidney R. Feil is a Registered Pharmacist under Ohio State Laws and Graduate of the National Institute of Pharmacy

S. R. FEIL Pres.

If you will fill out the coupon below—tell me how many head of stock you have—mail it to me, I will ship you enough Sal-Vet to last them 60 days. You simply pay the small freight charge when it arrives. Let your stock run to it freely according to directions and at the end of 60 days, report results. If Sal-Vet does not do what I claim, I'll cancel the charge. You won't owe me a cent.

Don't Send Any Money—Just Send the Coupon

Read the letters in the next column. They prove that Sal-Vet will do just what I claim. Be on the safe side. Protect your hogs against disease ***now.*** Don't put it off a day longer. Get rid of the worms in all your stock now. Sal-Vet will do it quickly and easily. You can see the results with your own eyes before you pay me a penny.

Sidney R. Feil, Pres., THE S. R. FEIL COMPANY, Mfg. Chemists
(107) Dept. IH — Cleveland, Ohio

Sidney R. Feil, Pres., The S. R. Feil Co., Cleveland, O.

Ship me enough "Sal-Vet" to last my stock 60 days. I will pay the freight charges when it arrives, report results in 60 days and will then pay for it, if it does what you claim. If it does not, you are to cancel the charge.

Name .....

P. O. .....

Shipping Sta. ..... State .....

Number of Sheep ..... Hogs .....

Cattle ..... Horses .....

IH 2-13-13

Read How Sal-Vet Saves Farm Stock

Before Sal-Vet got here, I employed a veterinary who performed a post-mortem examination on two pigs, one of which had died, and the other we killed. He pronounced the trouble Swine Plague, when I was sure it was worms. Since I have fed Sal-Vet, there has been only one loss and the pigs have since been thrifty and doing well."
G. W. Benedict, Platteville, Wis.

"Enclosed find check for the Sal-Vet received. The reason I had not sent this before was because the Cholera was prevalent all around my neighborhood, and I wanted first to test the preparation thoroughly. Not a single one of my pigs died, and furthermore, they are all looking fine and are in good condition."—E. M. Searcy, Decatur, Ill.

I write to say that I have been a free user of Sal-Vet ever since its introduction and find that it is the most perfect worm exterminator on the market today. It will positively do all that you claim for it. There is nothing within my knowledge as good and reliable or as cheap."—E. C. Stone, Peoria, Ill., Sec. American Hampshire Swine Record Ass., Pres. Illinois Swine Breeders' Association.

My herd of pure bred Poland China hogs were in decidedly bad condition, and I was very much afraid of Cholera, having just returned with them from our state fair, where this disease often crops out. Since feeding Sal-Vet, they are slick, fat and in absolutely perfect health too.
G. M. Curnutt, Montserrat, Mo.

PRICES: 40 lbs., $2.25; 100 lbs., $5.00; 200 lbs., $9.00; 300 lbs., $13.00; 500 lbs., $21.12. Special discount for large quantities.

No orders filled for less than 40 lbs. Never sold in bulk; only in Trade-Marked "Sal-Vet" Packages. 60 day trial shipments are based on one lb. of Sal-Vet for each sheep or hog and 4 lbs. for each horse or head of cattle as near as we can come without breaking regular packages.

Animal Husbandry
Dept Univ Of Ill
22 13

The Iowa Homestead

VOL. LVIII. NO. 8 DES MOINES, IOWA, FEBRUARY 20, 1913. WHOLE NO. 2889.

THREE GENERATIONS

The young men and women who are today ordering their household goods and farm implements from Montgomery Ward & Company are following in the footsteps of two generations.

The proud boast of this institution is that it has served faithfully three generations of careful, saving people.

Many a young couple who are ordering their weekly or monthly shipment from Montgomery Ward & Company have back of them the spirit of father and grandfather, approvingly urging them in the path of saving.

In 1872 we began the battle to reduce the high cost of living. It was our own private fight forty years ago. It has now become a national issue.

Millions have learned the lessons and profited by them. The great catalogue of Montgomery Ward & Company this year has reached a pinnacle of perfection undreamed of heretofore.

There are bargains on every page. From pins to pianos, from agricultural implements to automobiles, from foods to furniture, and through all the thousands of articles correctly described in word and picture you will find an array of merchandise unequalled in any other collection in the world.

This wonderful book of a thousand pages and ten thousand opportunities to save is yours free for the asking. All you need to do is to write a post card or letter today saying "send on the new catalogue" and it will reach you without a penny of cost or a shadow of obligation. Write today.

MONTGOMERY WARD & CO. Dept. 917
CHICAGO KANSAS CITY FORT WORTH, TEX.

Clarke's Hog House

Prevents disease, destroys lice. It's indestructible—will last a life time. It's scientifically constructed to **Save All the Pigs.** Made of all galvanized, rust-proof, extra heavy metal with a patented door. Can't be broken or get out of order. You can roll Clarke's Hog House anywhere and open the top of it to let the sunshine in. **Write for prices.**

Sun Hur Mfg. Co., 76 Main St., Crawfordsville, Ind.

"More Potatoes"

From ground planted secured by use of The **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for **CATALOG,** price, etc.

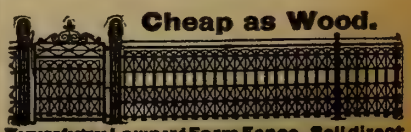
A. J. PLATT, MFR.,
BOX H STERLING, ILL.

The "STAY THERE" Aluminum Ear Markers

are the best. Being made of aluminum they are **brighter, lighter, stronger and more durable** than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address

WILCOX & HARVEY MFG. CO.,
Dept. A. 443 S. Dearborn St., Chicago, Ill.

Cheap as Wood.



We manufacture **Lawn** and **Farm Fence. Sell direct** shipping to users only, at **manufacturers' prices.** No agents. **Our catalog is Free. Write for it today.**

UP-TO-DATE MFG. CO., 927 10th St., Terre Haute, Ind.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY FEBRUARY 20, 1913.

STATE AID FOR GOOD ROADS

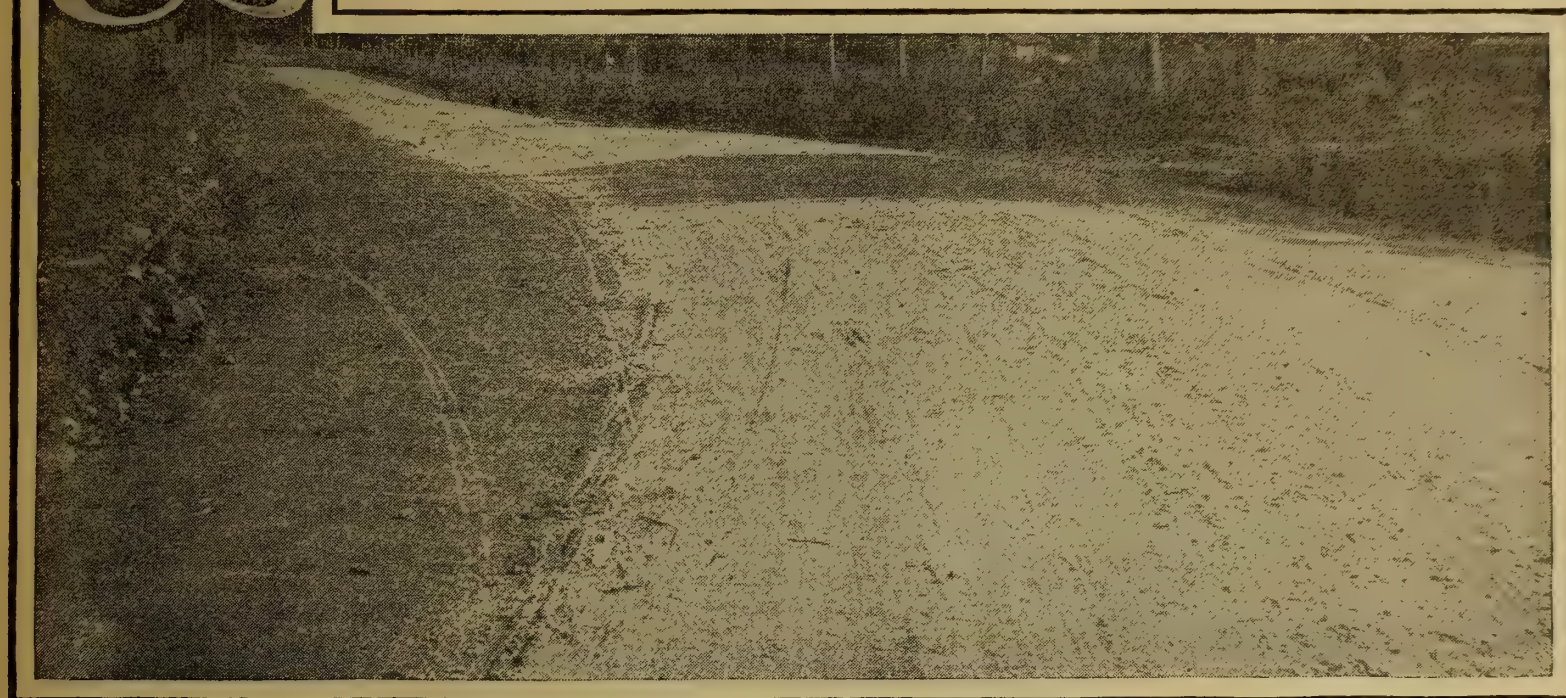
Extent of the Campaign Being Carried on Throughout the Country, with Bond Issuances in a Number of States—the Record of One Year's Work.

"LAWS will not build roads. It takes money." This sage utterance of Curtis Hill, state highway commissioner for Missouri, sounds the keynote of the new campaign which is being carried on, all over the country, for better highways. The past year has seen a greater number of millions appropriated or raised by bond issues for good roads than ever before in the history of the country. "It is my suggestion that the laws be left alone," continued Mr. Hill, "and that efforts be concentrated upon obtaining state money to aid road building; that is the key to the solution of road making and our present greatest need. Any one who knows anything about the subject knows that the principal need is revenue (especially revenue for state aid roads) in an amount that will be effective." That the country is rapidly coming to see the wisdom of Mr. Hill's remarks (he gave them point by proposing a $40,000,000 bond issue for Missouri) and to decide that good roads must be built of something more permanent than enthusiasm and good intentions is evident from the record of the past year and from the campaign well under way for the coming year. A resume of the work of 1912, made at the beginning of the present year, shows that New York heads the states whose legislatures have made liberal appropriations for good roads, adding a $50,000,000 bond issue to its previous appropriation of an equal amount. "Practically as good a showing is assured in Pennsylvania where a proposed $50,000,000 appropriation is pending," continues the report. "In California an $18,000,000 bond issue is now being expended and in Maine a $2,000,000 bond issue has been authorized, to be met by the motor car fees. The defeat of the $50,000,000 bond issue in Ohio is said by the good roads enthusiasts to be the only discouraging feature of the year and they believe it will be reconsidered."

To this excellent showing must be added the good work accomplished in Minnesota, where an amendment to the state constitution providing for a one-mill state tax levy for good roads and authorizing the anticipation of this levy for ten years by a bond issuance, creating a fund of $16,000,000 immediately available, was the only one of five amendments to be carried at the last general election. Inasmuch as it is provided that the benefited counties and property shall contribute a dollar for every dollar expended by the state, a total fund of $32,000,000 is thus made available, sufficient to connect every county seat town in the state (south of a point 100 miles north of St. Paul) with paved roads, the state to pay one-half the expense, the counties one-fourth and the benefited property one-fourth.

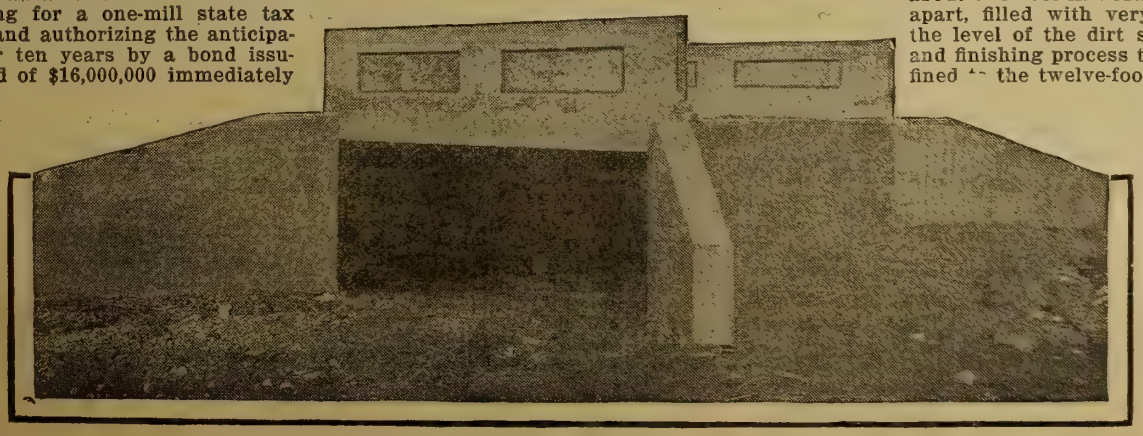
To this list must shortly be added Iowa, if present prospects are realized, the legislature now considering a bill to place practically all road building under the supervision of a state highway commission, possessed of plenary powers and to augment the road funds by a special state road tax of one mill, which would be a burden of only $2 on a quarter section farm and which would give a good working fund of almost a million dollars to start with. Some of the Iowa road enthusiasts are advocating a $25,000,000 bond issue, the interest on the bonds to be paid and the bonds to be retired within twenty years by the one-mill state tax levy and the automobile tax. It is proposed to duplicate the Minnesota plan and by county appropriation and property assessment double the fund, so that $50,000,000 will be available.

That the enthusiasm is contagious is shown by this report from Missouri: "Bonds for building nine miles of rock road in Clay county, between Kansas City and Excelsior Springs, were voted at a special election yesterday by the farmers living between Avondale and Compton's Farm. The road wil cost $65,000 and the work of grading will begin early in the spring. Of the 6,400 acres represented in the district more than 4,000 were voted for the road. The district is the first of the four districts through which the road ultimately will be extended to Excelsior Springs. Of the three remaining districts, two are ready to vote bonds for their share of the work."



A STRETCH OF MODEL HIGHWAY, LINKING TOWN AND COUNTRY TOGETHER.

This road in Clay county is to be sixteen feet wide and is to have seven inches of crushed rock, covered with the best grade of heavy oil. Like the model highway in Marion county, a stretch of road bed that is attracting widespread attention, it was made possible by fund-providing laws which assess not only the adjoining acres, but also those further back, the acre assessments decreasing according to the distance from the road and the benefit derived, descending from a dollar an acre to fifty cents and even less. The road in Marion county is but twelve feet wide, but the layers of stone are ten inehcs deep, first a four-inch layer of one and one-half-inch crushed stone, next a four-inch layer of three-inch crushed stone and over this two inches of screenings from the road crusher. Drainage is provided for by means of cross sections or ditches about two feet in width, at spaces fifty feet apart, filled with very coarse rock up to the level of the dirt surface. In the final and finishing process the rolling is not confined to the twelve-foot width of macadam, but laps over onto the shoulder and dirt road adjoining, which is made into a hard, well-packed road on each side of the rock strip, in the exact center of the right of way.



TYPE OF THE PERMANENT CULVERT COMING INTO POPULARITY.

But the model highways in Clay and Marion counties do not comprise all the year's achievements for

(Concluded on page 14.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

SUBSCRIPTION RATES—Single subscription, $1.00 a year. In clubs of ten, 75 cents a year and an extra copy to getter up of club. In clubs of fifty or more, 30 cents a year. Single subscription three years in advance, $1.50; five years in advance, $2.25; ten years in advance, $4.00. Subscription price in Canada, $1.50 a year. Remit by draft, registered letter, postoffice or express money order. In changing address, send both the old and new addresses. In renewing, give the same name and initials as you gave before or state both the old and new names, and explain why you make the change. In case of errors or failure to receive the paper within two weeks, promptly notify the publisher. Address all letters to

THE HOMESTEAD COMPANY,
Des Moines, Iowa.

A PROMPT RECOVERY.

The work of rebuilding the partially burned Homestead plant is progressing steadily, so that already (only a fortnight since the flames wrought their destruction) the building is once more enclosed, with evidences of restored order appearing where chaos once greeted the eyes. Within a month or six weeks the building will be in as good condition as formerly, while not far in the future our plans and hopes look forward to a new home, to be completed before the first snow falls next winter.

While the work of rebuilding has been in progress, we have not been idle in the equally important matter of restoring all mechanical departments to their former condition. Already $60,000 worth of the latest and most improved machinery and the best and most artistic type procurable have been ordered, much of it being already shipped, to be installed immediately upon its arrival. Within a month or two the mechanical equipment of The Homestead plant will once more be without an equal in the middle West and we shall again be in a position to give our patrons and subscribers the advantages which can be obtained only in a printing shop up to the minute in the matter of mechanical aids to skilful mechanics.

In making these announcements I am not moved by any spirit of boastfulness because of our prompt recovery from what seemed at first to be a crushing blow, but I am moved, rather, by a spirit of thankfulness that all this has been made possible, largely through the co-operation of friends, both here at home and throughout the entire country. "A friend in need is a friend indeed" runs the old adage and I am prepared to testify to its truthfulness and aptness in the present situation. The cheering and comforting letters received from hundreds of friends have brought consolation and encouragement, reviving waning spirits and stimulating further and greater efforts. I shall never forget the kindness of the many, many friends whom this recent disaster has disclosed to me, in number and sincerity beyond my fondest hopes or dreams.

With the day now not far distant when the last vestige of the flame's destruction will have vanished, I renew my promises of even greater effort in the future to deserve the friendly assistance and kindly feeling which have been manifested so generously in the past fortnight.

Most sincerely yours,

James M. Pierce,
Publisher The Iowa Homestead.

A SAD LOSS.

As we go to press, the sad news comes from Maryville, Mo., of the death of George P. Bellows, one of the best known and best loved of all the stock breeders of the country. The lifeless body of Colonel Bellows was found under his automobile, at the edge of a bridge, Monday afternoon. The accident which snuffed out a life which had no equal for usefulness, integrity and uprightness was witnessed by no one. Only the dead body of the man who but a half hour before had been in the very prime of his endeavors mutely testified to the tragedy the news of which brings so much sorrow to so many hearts.

Colonel Bellows was a man whom to know was to love. His career is one of the prides of his state and of the entire grain belt. Active, industrious, practical, thrifty, practicing the square deal in every act of life, he leaves behind him the heritage of an untarnished career and the memory of a noble life gallantly lived. His death comes as a particularly sad blow to The Iowa Homestead, for Colonel Bellows was associated with this paper, in the capacity of a field man for eleven years, from 1893 to 1904, leaving The Iowa Homestead to enter upon his career as a live stock auctioneer. The loyalty, industry and perseverance, with which every day of the eleven years spent by Colonel Bellows with this paper were filled to overflowing, are an inspiration and a guidance to this day and will never be forgotten. The publisher of The Iowa Homestead will attend Colonel Bellows' funeral and will pay a personal tribute to the memory of his late and beloved friend in next week's paper.

PAPERS ALL PRACTICAL.

Nothing is more important than good, practical reading for the whole family. The publisher of The Iowa Homestead personally reads and recommends the four splendid papers which he offers in combination with The Iowa Homestead in the 1913 Red Letter Subscription Offer. They are all dependable and practical, leaders in their class. The offer is an exceptionally good one. Remit $1.25 today to The Iowa Homestead, Des Moines, Iowa, and the five following papers will be sent you one entire year: The Iowa Homestead, Kimball's Dairy Farmer, The Woman's World, Kansas City Weekly Star and People's Popular Monthly. This is almost one-half the regular price and the best chance we know of for a year's good reading at such a low price.

CORN, CLOVER AND COWS.

In any country where corn and the clovers will grow, there you will find the possibility of improved agriculture. What we mean by improved agriculture is the raising of the largest possible crops with the least possible waste of soil fertility. No country can waste its resources and continue to prosper any more than a young man can prosper who spends more than his income.

Nature is not an inexhaustible storehouse which may be looted with impunity by every freebooter who calls himself a farmer. There will be a day of reckoning. Any system of agriculture that doesn't conserve the fertility of the soil on which agriculture depends is all the time drawing on the bank of nature, and in the end the drafts will be dishonored.

The farm practice which is all too common in the middle West is to change the crops from corn to some kind of small grain, and then sow timothy, all soil robbers, each one appropriating some valuable element that is seldom replaced in any adequate measure.

Conservation of soil fertility means more than a few loads of manure scattered in a hap-hazard sort of way, for such farmers seldom keep stock enough to thoroughly enrich any one field.

Corn is the staple crop, and it will be and should be planted in excess of any other. But corn after corn with an occasional change to some other exhaustive crop will not always pay. There must be a proper and systematic rotation which means more than a change of crop. One or more of the clovers, that strike their roots deep into the subsoil, pumping up buried treasures, and that reach up into the air for passing elements which the other crops are not able to appropriate but need, these are the plants that are depositing in the bank upon which the farmer must draw. That bank will not fail.

One other thing is needful to make a perfect rotation possible. Crops must not be removed from the farm on wheels. Every load of grain or hay taken to market removes a certain number of pounds of the very fertility which made it possible to raise the crop, and if the practice be continued long enough someone will go into bankruptcy or buy commercial fertilizers to replace what has been carried away, just as the farmers of the eastern states are now compelled to do. They wasted their substance in riotous farming and the sons are now living on the husks of their fathers' mistakes. In some states whole bulletins are devoted to the discussion of chemical fertilizers.

Crops must be largely consumed on the farm, and marketed only in the finished product. Live stock must, therefore, enter into the system of crop rotation. The crop that walks to market or slips through the creamery carries away less of the farmer's real bankable value, the soil, than if it rides to the elevator or haypress.

The cow is the handmaid of prosperity. She is the helpmate of every one who espouses her. She is faithful to her employer and generous toward her lover. She brings a dowry of good works, and leaves behind her a wealth of blessing, an inheritance of conserved resources.

The future of corn-belt agriculture depends on the present generation. If we learn from the object lessons of wornout soils where once flourished a prosperous, but thoughtless husbandry, and if we are able to profit by the examples of English and German far-seeing practices we may escape the penalty that overtakes less intelligent peoples who robbed posterity by wasteful methods.

Clover, corn, cows, these three, a trinity of practical virtues that mean putting off the day of bankruptcy for the middle West farmer so long as they are intelligently applied.

Other practices will suggest themselves, but these are a good foundation for good farming.

EXPERIENCE IN USING FORMALIN FOR SMUT.

A South Dakota subscriber, A. H. Sich, gives his experience in destroying smut on various kinds of grain in the following communication:

In a recent issue of this paper you recommended using one pound of formalin in forty gallons of water, to destroy smut on oats. I have for four or five seasons treated oats as recommended by you and different experiment stations, but without success, and last season I used one pound of formalin to twenty-five gallons of water, treating twenty-five bushels with it, which had the desired effect. According to this I think the mixture you advise is not strong enough. I am using the same amount for beardless barley, using one gallon for every bushel of the above grains treated, but for wheat I have found that one pound to forty gallons of water is plenty strong. I use a wagon box to handle the grain, treating half a box full at a time. Am using a common garden sprinkler and taking care that every bushel is moistened by working the grain from one end of the wagon box to the other three times, wetting it as it is worked over, and then it is piled up in one end and covered with sacks or blankets for four or five hours. After this length of time has elapsed I remove the covering and shovel it over a few times to hasten its drying and it is ready to sow, but the seeder has to be opened a little farther on account of the seeds being swollen.

We believe that in some instances advice about sprinkling seed with a mixture of formalin and water has been wrongly interpreted and as a result the grain has not been made sufficiently wet to bring about the complete destruction of the smut spores. It is very natural to suppose that where the sprinkling method is employed a stronger solution would be required in the case of oats because there is a much better opportunity for the spores to remain immune from attack in the hull of oat grain than in the case of either barley or wheat. While this paper has frequently recommended the sprinkling system we have always advised pouring on the liquid until the grain has become thoroughly soaked and until the water seeps away on the sides, but as there seems to be some instances where this plan does not always prove effective as indicated by the results obtained by Mr. Sich, we believe that in the end it is better to immerse the seed there and then. In experiments conducted at the Ontario station the very best results were obtained by the immersion system which simply means putting the grain absolutely into the mixture of water and formalin in which case it has been proven that one pound of formalin to forty gallons of water answers every need.

MODEL RURAL SCHOOLS.

A model rural school at Kirksville, Mo., is serving as an object lesson in possibilities. Indoor toilets and shower baths, drinking fountains and a modern heating plant are shown to be possible in the country school, however remote from the city. A correspondent sends us this description of conditions:

The Kirksville school is conspicuous for its utilization of every available inch of space. It is only a one-story building, slightly wider than the typical Missouri country school, but the attic and basement are both put to valuable use. The attic is employed for manual training and domestic science, and there is an excellent herbarium. The basement contains the heating plant, a combination of hot water and hot air, described as very economical in use; the fuel room; a bulb room for the outdoor garden, and a dark room for developing photographs.

The machinery of the school plant consists of an ordinary pneumatic pressure tank, operated by a gasoline engine. A septic-tank sewer system is maintained at small expense.

The main floor of the building, besides containing the class room proper, has a small community library, separate from the school library, emphasizing the purpose of the rural school as a community center. The class room itself occupies most of the floor. The desk and seats in it are both adjustable and movable, with individual platforms, and when all are removed to one side as many as 200 people can be accommodated, thus making it possible to use the room for community gatherings. The stereopticon in the wall of the class room emphasizes still further the fact that this school is built for general community use as well as for ordinary school purposes.

Every effort has been made to have the model rural school at Kirksville approximate actual rural conditions. Although located on the campus at the Kirksville Normal School, it is detached from the other buildings. The pupils are real rural material. Every morning a transportation wagon brings in thirty-four country children from a distance of five miles. No town children are allowed to attend, because it is distinctly a rural school. An expert rural teacher is in charge and the school she conducts is an observation school. Candidates for rural school certificates attend it at least once a day and observe her work, and after two years of training in the normal school they receive practice work in the school.

Country children who go out from such a school are not only better educated and equipped to carry on the active work of the farm, but they are better contented to remain on the farm. Such a school shows the possibilities of farm life, the extent to which it may be filled with comforts equally with city life. And the best of it all is that all these advantages mean but little additional expense, according to the Kirksville reports. The cost is said to be within the reach of a comparatively small community. After all, the margin between doing a thing in a haphazard, systemless manner and doing it in a thorough and systematic manner is small. A few more dollars added to the original investiment bring results far reaching in their effect and importance.

The farmer who jumps into his wet ground in the spring just to get ahead of his neighbor, cannot form a good seed bed; his soil will pack before it can be pulverized and leveled, and his land will be irreparably damaged by such management.

FALL SOWING OF ALFALFA ADVISED.

A sub criber, Dorman Trisler, asks for information concerning the establishment of an alfalfa field. He is contemplating sowing a few acres in the spring and desires to know if it is advisable to use a nurse crop or not and asks further concerning the depth to which a soil should be plowed and for general information concerning the preparation of the seed bed.

It is much easier to make a blunder by attempting to sow alfalfa in the spring than by seeding in the fall. A decade ago there was very little alfalfa seeded in the fall in the corn belt, but year by year farmers are switching over and there is without doubt good reason for the change.

One of the main reasons why it is advisable to sow in the fall rather than in the spring is that under ordinary circumstances annual weeds offer a tremendous amount of opposition to the spring and summer growth of a crop like alfalfa. It means that to keep the weeds in check frequent cuttings must be resorted to and in case the alfalfa is healthy there is a substantial objection to cutting it short at the very time when some top is needed in order to insure rapid root growth. Where a nurse crop is used weeds are kept in check more effectively, but on the other hand, the nurse crop also dries the soil out to such an extent that the young alfalfa plants suffer when the crop that shades it is removed. Other reasons might be given in favor of the plan of fall sowing, but these are the main and important ones. Where the crop is sown about the middle of August on a well-prepared seed bed such annual weed seeds as germinate in the fall only make a comparatively small growth and they are gone forever so that the alfalfa starts very early the following spring and in most cases keeps ahead of weed growth. If conditions are at all favorable a good cutting or two is often obtained the first year when this plan is adopted and a much better stand from the beginning will be insured than car be expected from the spring sowing.

In some instances it may be advisable where it is the intention to sow alfalfa to lose the use of the ground for that season by keeping the soil stirred on the surface from time to time through the spring and summer months. If the ground was not fall plowed it should be plowed just as soon as possible in the spring and as said before, surface kept stirred in order to conserve moisture and rid the land of weeds. This is possibly the most ideal method of preparing a seed bed for alfalfa. However, those who feel that they cannot give up the use of the ground for a year might be able to grow a crop of small grain after which the ground should be plowed to a fair depth and thoroughly cultivated so as to get the soil into almost a garden condition by the middle of August at which time the alfalfa seed should be sown. If manure can be added to the stubble land after removing the grain crop so much the better.

CO-OPERATION THAT COUNTS.

The campaign to enhance the efficiency and add to the appeal of the rural school is already bearing results. Not the least interesting report is that which comes from a community in Iowa where the girls attending the rural school are having the earnest co-operation of their mothers. Determined that their daughters shall have the advantage of instruction in scientific cooking the mothers have purchased a large gasoline stove, with the necessary kitchen equipment, and with their daughters are spending several hours at the school each week, cooking and preparing special dishes under the supervision of the highly efficient teacher in charge.

In this connection a report made by the teacher of another rural school in the grain belt, showing the success of her plan to serve hot noonday lunches, prepared by the pupils themselves, is of interest and value:

As to the hot lunch, this was not tried last year, so after I had taken the work at the normal school I decided last fall to try it in my school. We gave a social and raised a little money and with it I bought a good two-burner oil stove, a dishpan, a large soup kettle, a tea kettle, a soup ladle, a dozen spoons and two and one-half yards of white oilcloth for desk covers and some salt and other stock materials at a total cost of $11.30. I then made out a list of material the children could bring to make the hot lunch for each day. All responded readily and we began. We have soup four days and on Fridays we have a cup of cocoa. The children like it much and we would not think of going back to the old plan of the cold lunch.

I start the fire about eleven o'clock and two of the girls quickly make the soup and put it on and it is all ready by twelve o'clock. One child acts as waiter and another with the ladle dips out the soup, while the others quietly wait at their desks to be served.

After dinner each child carries his soiled dish to the wash table and two of the children wash and put away the dishes. There is no trouble whatever in getting the work done. The children really enjoy it and it takes no time from the regular work. Lately one of the neighbor girls not attending school came to visit us and, much to our surprise and delight, at noon hour surprised us with a fine chicken dinner she had brought with her all ready to serve. There was some objection to the hot lunch at first on the part of some parents, but they have been reasonable about it and I think now all are supporting it well. I am sure the people as a whole in the district feel it has been a fine thing and are glad to support it in every way.

A recent meeting of one of the neighborhood farm clubs, so numerous in the grain belt nowadays, discussed the rural school problem at length, the consensus of opinion being that the condition of the country schoolhouses is not as homelike and up to date as it should be. The meeting was not adjourned until it had been decided to add a telephone to the school room, so as to place the pupils and the teacher in easy communication with their homes and friends. The rural school of tomorrow thus equipped, together with renewed interest in the work brought about by the making more practical of the courses of study and the widening of the appeal, cannot help but be more efficient and a bigger factor in farm improvement than ever before.

ONE WAY TO WASTE MANURE.

An Iowa subscriber calls attention to the waste that sometimes takes place when farm yard manure is placed on rolling land at a time when the ground is frozen. Among other things he says:

It has been quite a problem with us whether to draw out manure as fast as it is made in the winter season or to store it and haul it in the spring after the snow is gone.

There are some things to be said on both sides of the question. A few years ago, on a trip across the country, I saw tons of good manure going down to the ocean in the month of February when there had been a long rain and the snow was going off with a rush. The farmers of that section had hauled their manure out as it was made and left it in little heaps all over the land that was to be cropped the following season; but they were surely losing a good share of the goodness of their fertilizer. It would not even so much as give the water of the river a reddish cast anywhere. It was lost and gone.

Every winter the same thing happens all over the country, especially where the land is inclined to be hilly and manure is spread on it while the earth is frozen hard. It stands to reason that this should be so. The manure cannot get into the earth; it is locked out by the frost. The only way it can go is the way the hill slopes. And that is not a very profitable way for the man who owns the land.

Seems to me, then, that if a man has a hilly farm he had better wait until spring before drawing out his manure. Where the land is comparatively level or only rolling a little it will do to spread the manure out in winter. Then it will lie there till the warm sunshine unlocks the earth and lets it down in to enrich the soil.

I know how much it furthers farm operations to be able to do this work in winter when other work does not crowd. It is no small job to haul out the manure for a big dairy of cows or a lot of stock anyhow. I never have been more tired in all my life than when doing this work day after day. It is hard and heavy work, especially if we do not have a spreader. But, after all, what do we need the fertilizer for, if not to give us better crops and to maintain the goodness of our farms?

The conclusion is, then, that every man must settle the question for himself. Theory is good; actual experience better. "Let every man be fully persuaded in his own mind."

This is a matter about which one can easily be deceived. The flow of colored water from fields that have been manured during the winter months does not necessarily mean the waste of much fertility. This is due to the fact that until manure becomes incorporated with the soil conditions are not favorable to the conversion of plant food into soluble form and that being the case ordinary rains cannot dissolve the fertility and, therefore, it is not lost in any considerable quantity. We cannot help but think that the practice of getting manure to the fields as soon as possible after it is made under nearly all conditions is based on good sense, and while as this subscriber points out it may seem as if it sometimes results in large waste, yet after all we believe that the waste is more than made up by the work being done at a time when labor is slack. It must be borne in mind that if the manure is left in the yard conditions for bringing about waste are ideal, the loss in this case being very largely in the form of nitrogen—the most expensive element of plant food. This is a factor that must be considered in comparing the plan of hauling the manure to the field during the winter and that of leaving it in the yard to be hauled during the spring or summer.

FERTILIZING GRASS LAND.

An Illinois subscriber brings up the question of retaining the fertility on rolling land and recommends that such soils be kept in grass continuously. On this subject he says:

After over twenty-five years' experience in farming I have come to the conclusion that it is best to keep hilly land in grass most of the years. Either timothy or blue grass is good. Clover is not bad, but it will not stick so well as either of the other two. By keeping the hilly ground sodded there will be but little if any washing of the soil. This preserves the appearance of the land and maintains its fertility.

I have seen many acres of hilly land cut to pieces with deep washes and practically void of fertile soil. This land was cultivated year after year and the top or fertile soil washed away down the ravine and left a poor clay instead. When it is positively necessary to cultivate the hilly land it should be plowed carefully. Never break it up and down the hill, but plow around the hill and keep the soil as level as possible. Plant the crop and get it to growing as quickly as possible after breaking. If washes start by heavy rains, drive stakes across them and throw in brush or straw and get them stopped as quickly as possible. Never cultivate the hilly ground more than two years. Put it right back to grass as soon as possible. I know many farmers who have prospered on hilly farms by thus caring for their soil. The low land is the land that should be cultivated, for its fertility can be kept up by manure and rotation.

In some instances grass on the bare hills becomes thinner and thinner thus giving rise to the seeming necessity of plowing it up so as to get a fresh start. In such cases a much better plan involves the use of a little more seed and such fertilizer as is available. Three quarts of clover seed per acre well harrowed or disked in early in the spring will do two things. In the first place it will add to the richness of the pasture and secondly it will greatly benefit the soil. If in turn some of the clover can be allowed to go to seed it will still further thicken the growth. If in addition to this a few loads of farm yard manure can be spread thinly on every acre the result will be a tremendous increase in the yield and in the end rolling land will be much more productive from this kind of treatment than will be the case if it is plowed up and an attempt made to get a new start in establishing grass.

A WORD FOR THE GASOLINE ENGINE.

The following communication comes from a man who has been more than ordinarily successful in his farm affairs. While there might be many reasons for this success yet we apprehend that one important factor has been the use and employment of modern machinery to take the place of man power. About the gasoline engine he says:

I am thinking now of the gasoline engine. How could we get along without it? A few years ago we had to do our work without the help of this most useful farm machine. It was a long, tedious job, for example, to get up the wood for the coming year. Took about all winter to do what we can now do in a short time after the logs have been cut and skidded up.

And then there is the work of pumping water. We have a deep drilled well. In a dry time this is our only source of supply for the horses and a big herd of cattle. It used to be a hard and a long job to pump water enough for so much stock by hand. Now we set the engine to work and the rest is easy. A few cents' worth of gasoline will do a whole day's work.

And we have found our engine a source of help not only on our own farm, but also on the farms of neighbors who have none. The boys, too, earn quite a speck of money in the winter season by taking little wood jobs around the neighborhood. It helps the folks out and gives us something profitable to do when the hands would otherwise be doing little except the chores.

In the fall, when it comes to filling the silo, we have found the engine a source of great help. By changing work we can get the silo job done at comparatively light expense. Still another good thing about it is that we can usually get this work done when it ought to be done, instead of having to wait the notion of some man who makes a business of filling silos, and who may be days behind the frost, which is never a respecter of persons, but comes when it has a mind to, whether the corn is cut or not.

But the expense! We can't afford it. Can we afford not to have the tools necessary to enable us to do our farm work promptly and on time? Is it not really a life-saving thing, too, to have machinery to take the place of man or horse power? Anything that will help us to do what must be done in season and at a great saving of life and strength certainly seems to me well worth while. After you once get an engine the expense of upkeep is small, compared to what we get out of it. Then, too, fewer horses will have to be kept if we are equipped with a good engine and the necessary adjuncts.

It would be difficult to prove just which farm implement or piece of machinery has proven to be the greatest labor saver for the farmer. Comparison, however, is not necessary because one implement saves labor in a particular direction while another multiplies the farmer's working ability in a different direction. When it comes to the saving of such hard, grinding toil as is involved in the pumping of water, sawing of wood and tasks of that kind the gasoline engine must be held in highest esteem. However, it is not enough that a piece of farm equipment should save labor unless in so doing it multiplies the farmer's earning power and from this standpoint the gasoline engine is doing its full share. In the grinding of grain, filling the silo, shelling corn and such heavy tasks as these a good engine on the average farm ought to pay for itself the first year.

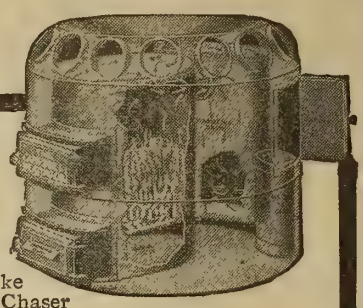
IMPORTATION OF BREEDING ANIMALS.

There were more pure-bred Percheron stallions and mares imported into the United States in 1912 than there were representatives of all other breeds put together. G. Arthur Bell, acting chief of the animal husbandry division of the United States Department of Agriculture, has furnished this paper with a complete summary of the 1912 cattle and horse importations to this country. His records show that the importations from France, Belgium, Scotland and other horse-producing countries totaled for the year 3,419 of which number 1,946 were Percherons, 939 were Belgians, 243 Shires, 101 Welsh ponies, eighty-seven Clydesdales, thirty-one Shetland ponies, twenty-six Hackneys and twenty-five Suffolks. Of the eighty-seven Clydesdales, twenty-four were imported from Canada and of the ten thoroughbreds seven were imported from the Dominion and the three standard breds were sent in from that country.

Although there were no Alderneys, Guernseys and Jerseys imported into the states after the early part of May owing to the presence of foot and mouth disease in Great Britain the totals of these three breeds were relatively and satisfactorily high. In all 1,616 head of cattle were shipped to America's ports during the year just ended. By far the larger number were Guernseys and Alderneys. The totals of these closely related breeds amounted to 641. The Island of Jersey stood second to these noted Channel Island breeds in the number of exportations to this country, there being 439 Jerseys shipped during the twelve months. Greatly increased by Badger state importations the number of Ayrshires amounted to 387, which is a high record for this noted Scotch breed. The eight Holsteins received at our ports were all shipped from Canada and not, as might naturally be supposed, from Holland where the breed had its origin.

Where thick weeds and grass are allowed to cover the ground in the orchard, it will furnish the mice and other troublesome pests a fine harbor, thus increasing your orchard troubles and decreasing your profits.

This Is the One and Only Furnace Manufactured Today That Is Absolutely Guaranteed To Heat Every Room To 70 Degrees Even In the Coldest Weather



I have a very interesting book about this furnace, Mr. Coal Buyer, and I would like to send it to *you* right away, and show you how you can actually save one-third on your fuel bill this winter.

I would like to show you just exactly what I have shown thousands of other dissatisfied land owners and home-owners. I would like to absolutely *prove* to you that this Winter Chaser furnace of mine is the most economical and even heater manufactured today.

I have been in the furnace manufacturing business now for thirty years and have something here to offer you that is really the best thing your money can buy in the heating line. There are many reasons why my

Campbell's Guaranteed Winter Chaser Furnace

is the biggest saver of coal bills of any heater in the world. The large firepot which permits slow combustion, is one of the biggest points. The patent heat retainer is another—the fact that our furnace is gas tight and constructed of the very heavy steel plate is another point—the big air chamber is another.

These points and many others that I want to tell you about personally, make my Winter Chaser the biggest saver of dollars and cents on the coal bills that has ever been manufactured, and put within the reach of every man's pocketbook.

But economy is not the only point. My Winter Chaser is so constructed of 3-16-inch steel plate that it's the most durable and lasting furnace on the market—many of them have been in homes for more than 25 years and are today giving just as perfect heating as they did when they were first installed!

My Winter Chaser cannot possibly freeze and burst. It burns *anything*—it's the quickest heating furnace on the market today—its proper heating arrangement of pipes is just another item that cuts down on Mr. Coal Man's profit—you have pure, sweet, clean, moist air in every room in the house twenty-four hours of every day—you have warm floors with every register in the right place, and all in all, the most healthful kind of heat that can be produced.

Just Write Me Today for My Free Book--Learn How to Save One-Third of Your Coal Bill!

Please don't put this matter off—don't overlook such a guaranteed offer as this one of mine. And when I say *guaranteed* I mean every word of it. I guarantee this Winter Chaser of mine to heat every room in your house—whether it be a twelve room mansion, or a three room cottage—to 70 degrees in even the most severe weather. I guarantee it to produce the cleanest, most perfectly moist heat for you at the *least possible cost*. Just drop me a postal or letter today asking me for this free book "Twice a Day," and I will send it to you by return mail. It will be a most profitable move on your part. Address me personally.

A. K. CAMPBELL, President

Campbell Heating Company

1213 Walnut Street Des Moines, Iowa

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Have you ever thought about the *extra profits* you could be enjoying by cleaning and grading your wheat, oats, flax, barley, rye, timothy, and clover? Did you know that frequently farmers add 20 per cent or more to their grain returns by the use of the New Superior Grain Grader? Well, it's a fact. Cold figures in our free books show $59.30 saved on ten acres of wheat besides paying for the machine.

You know that good seed costs money when you buy it from your neighbor. A New Superior will sift and clean the seed—right out of your own crop—at a mere fraction of what the seed man asks. And good seed is the first step toward bumper crops.

Besides getting bigger crops you get top-notch prices. Your grain goes to the elevator *clean*—free from all foul matter—no weed or grass seed. And therefore no dockage. Besides you've *saved the screenings*—good feed for your cattle.

Go to your dealer's—see the New Superior. Study the automatic adjustable feed, the 12 sieves and screens, the big capacity hopper, the large drive wheel, *double bagger*. A twelve-year-old boy can use the New Superior *easily*. And this great machine now on special offer.

$2.50 for this Coupon at Your Dealer's

Yes, $2.50 sliced right off the price. We want to attract the attention of every progressive farmer! We want every grain-raiser to *know* what the New Superior Grain Grader is! We'll make the same $2.50 offer on the Owen's Smut Cleaner. If you'll take the coupon to your dealer, he'll pay you $2.50 on either machine. And that's only the beginning of what you'll save. It's not uncommon for a New Superior to net hundreds of dollars per year for owners.

We *guarantee* Graders and Smut Machines. Your dealer will take care of you. *So cut out that coupon without delay.* Keep it in your pocket book so it will be handy the next time you're in town when you can talk it over with the dealer.

Books on Grain Profits—Free!

for just your request on a postal. You need the *facts* in these books. Maybe you haven't realized all you were losing on grain. Better find out—it costs you only one cent. Mail the postal today.

J. L. Owens Company
22 Chamber of Commerce Bldg. Minneapolis, Minn.

J. L. Owens Co., 22 Chamber of Commerce Bldg., Minneapolis, Minn., agrees to take this coupon as $2.50 in part cash payment on either the Owens' Grain Grader and Cleaner, or the Owens' Smut Cleaner. If there is no Owens' dealer in the locality, mail coupon to our office in Minneapolis and we will honor it and make arrangements to ship a machine direct.

Buyer's Name _____

Buyer's Address _____
(Rural Route or Street No.)

City _____ State _____

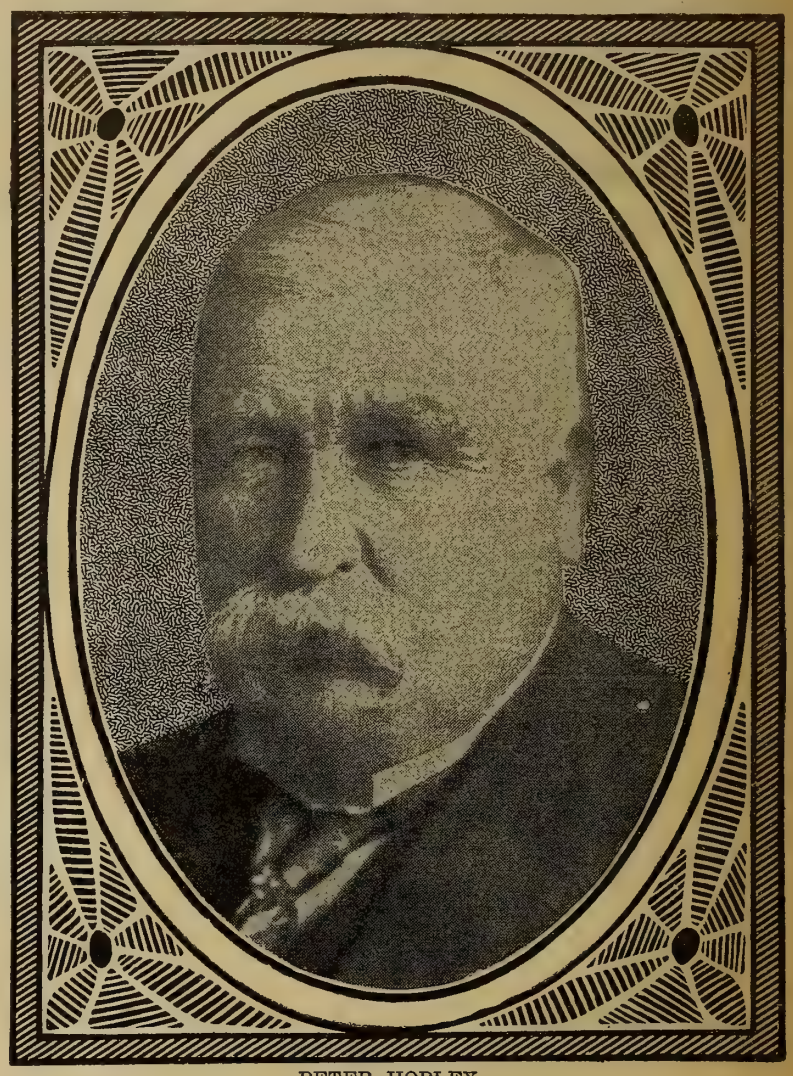
To Our Agents:—Accept coupon as $2.50 toward payment of an Owens' Grain Grader and Cleaner, or an Owens' Smut Cleaner, in accordance with our special offer. We will credit coupon to your account or send cash, on receipt of it filled out with buyer's name and address above and your name and address below.

Dealer's Name _____

Dealer's Address _____

Stockmen Sketches

NEW men connected with corn-belt agriculture have attained to a more distinguished position as a farmer, as a cattleman and as horse breeder and importer than has been attained by Mr. Peter Hopley, of Lewis, Iowa. He might properly be called the "grazier king" of his adopted state with his 1,200 or 1,500 head of cattle distributed over his 1,800 acres of land. It is no uncommon thing for the firm of Peter Hopley & Son to market a thousand hogs of their own raising in a twelve-month period. While the average man is uttering loud lamentations over his trouble in getting help to raise sixty or eighty acres of corn, the Hopley farms are going right on raising 400 or 500 acres of corn annually.



PETER HOPLEY.

In 1846 Mr. Hopley with his parents located in Iowa. As a young man he was smitten with the gold fever and went West and for a time acted in the capacity of foreman for the Adams Express Company on their trail from Denver to Deadwood. With characteristic thrift and foresight Mr. Hopley saved his pennies, returned to Iowa and began laying the foundation of a great name and a splendid fortune in the Botna Valley of the Hawkeye state. In his personal characteristics Mr. Hopley combines in a remarkable degree common sense, untiring energy and force of character. In the part he has taken in corn-belt agriculture his career in a very marked manner resembles that of Captain Barclay, the great Scottish farmer, of whom it was said: "No man deserved better of the farmers of Scotland." Like the Captain, Mr. Hopley is one not to be forgotten by anyone who has once met him.

The growth of the draft horse industry of the United States owes much to the part taken by Mr. Hopley as an importer during the last thirty years. In the early eighties he began bringing over good Clydesdales and with the exception of a short break in the nineties when there was no demand for good horses he has been one of America's largest importers of Percherons and Belgian horses. Being a superior judge of the horse department. His record as a steer feeder alone would make him a marked man in the agricultural activities of the central West. The firm at the present time consists of father and son, the former in the very prime of senior manhood and the latter a full-fledged farmer and stockman, first by instinct and also because of the remarkable opportunities found in his environment to acquire an intimate knowledge of farming and live stock breeding and feeding.

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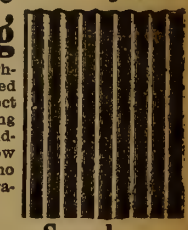
Our high-class, thoroughly galvanized corrugated steel roofing is sold direct from factory at big saving to you. Protect your buildings from lightning at low cost. Easily applied, no repairs. Deep corrugations insure durability.



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THE HOME MAKER

Get Your Canadian Home *from the* Canadian Pacific

WE WILL make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will *make you independent.*

This offer is directed only to farmers or to men who will actually occupy or improve the land.

Why not go where you can own 10 acres for every acre you own or farm here; where *every* acre will produce *double* what a worn-out acre produces anywhere?

Not on the face of Mother Earth can you find better land than this rich virgin Canadian soil. The enormous crop yield per acre *proves* this every season.

We Give You 20 Years to Pay

We will sell you rich Canadian land for from $11 to $30 per acre. You need pay only *one-twentieth down. Think of it*—only *one-twentieth* down, and then twenty years to pay the balance. Long before your final payment comes due your farm will have paid for itself over and over again. Many good farmers in Western Canada have paid for their farms with one crop.

Here are some of the startling features of the most remarkable land offer you have ever read:

We Lend You $2,000 for Farm Improvements

An offer of a $2,000 loan for farm development, with no other security than the land itself, *guarantees our confidence* in the fertility of the soil and in your ability to make it produce prosperity for you and traffic for our lines.

The $2,000 cash loan will help you in erecting your buildings and making things easier the first few years, and you are given 20 years in which to fully repay this loan. While enjoying the use of this money you pay only the banking interest of 6 per cent.

Live stock and poultry with which to equip your farm—best that money can buy—will be supplied you at actual cost.

If you do not want to wait until you can complete your own buildings, dig your well and cultivate and fence your farm—if you want this work all done for you before you start for Canada—select one of our Ready-Made Farms—with home and buildings complete, land cultivated and in crop, *ready for you* and pay for it in 20 years.

We give *free* service—expert advice—the valuable assistance of great demonstration farms, in charge of agricultural specialists employed by the Canadian Pacific for its own farms. This service is *yours—free*.

This Great Offer is Based on *Good Land*

The Canadian Pacific offers you the finest land on earth for grain growing, cattle, hog, sheep and horse raising, dairying, poultry, vegetables and general mixed farming—irrigated lands for intensive farming—non-irrigated lands with ample rainfall for mixed and grain farming. **Remember, these lands are located on or near established lines of railway, near established towns.**

Your new home and your fortune are ready for you in the famous, fertile Canadian West, with its magnificent soil, good climate, churches, public schools, good markets, good hotels, unexcelled transportation—*and 20 years in which to pay for your farm and repay the improvement loan.*

Here is the Last Best West—where *your* opportunity lies. Don't delay. Mail the coupon here at once. The best land will be taken first—so time is precious to you. *Write today.*

B. U. THORNTON
Colonization Commissioner

Canadian Pacific Railway Colonization Department

112 West Adams St., Chicago, Ill.

For Sale—Town lots in all growing towns. Ask for information concerning Industrial and Business openings in all towns.

☐ **Book on Manitoba** ☐ **Book on Saskatchewan** ☐ **Book on Alberta**

(Make a cross in the square opposite the book wanted).

B. U. Thornton, Colonization Commissioner,
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Please send me the books indicated above.

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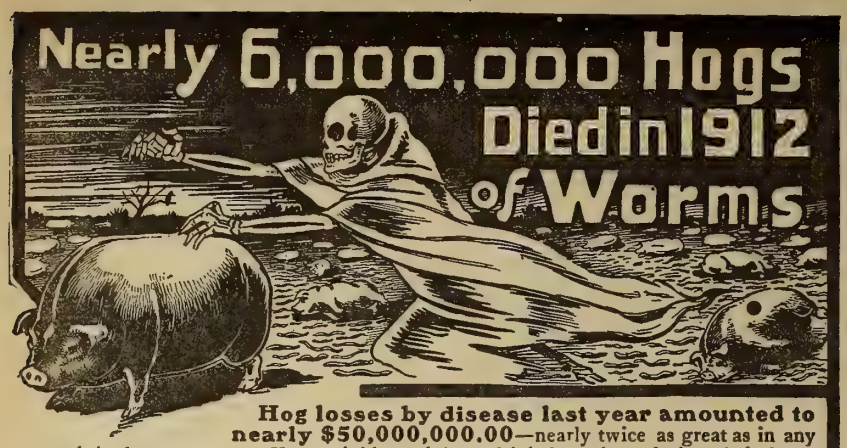

Hog losses by disease last year amounted to nearly $50,000,000.00—nearly twice as great as in any otner of the last ten years. Your neighbors right and left have been losing their hogs. If yours are ailing today, look out for tomorrow. Death is in the air and it will **rob you of your best profit maker.**

The trouble is not Hog Cholera, but worms. No hog dies of disease that hasn't got worms. **WORMS really kill 90% of all hogs that die. COLUMBIAN STOCK POWDER** positively expels and destroys worms and **prevents** hog losses. If your hogs are sick it will **save** them. If they are well it will **Keep** them thrifty and safe. Costs you **only a few cents per head a month to feed.**

AGENTS WANTED
We have an interesting money-making proposition for men of ability and good standing in every community. Write for particulars, giving references, TODAY.

Columbian is the original stock powder—**the only sure remedy;** used and endorsed by thousands of leading **stock raisers.**

NOT A FOOD, but a medicated preparation, scientifically compounded to expel worms and **Keep hogs healthy.** Restores their digestive powers; makes them grow faster and fatten on 25% **less feed.** Stops thumps, scours, coughing, fever, indigestion, and prevents all disease.

MUST BE FED TO BROOD SOWS, for best results with pigs. Keeps the sows healthy and vigorous, free of fever, makes the milk flow purer and more abundant, insures strong, thrifty litters and **prevents runts.**

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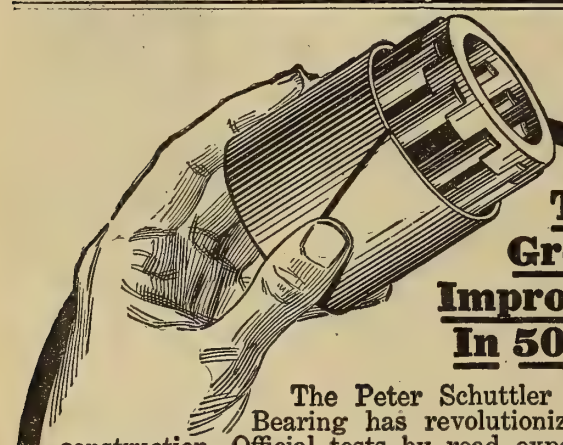
COLUMBIAN AUTOMATIC FEEDER FOR HOGS



The Greatest Improvement In 50 Years

The Peter Schuttler Patented Roller Bearing has revolutionized farm wagon construction. Official tests by road experts of the U. S. Department of Agriculture show remarkable results. Every farm wagon will soon have roller bearings.

Peter Schuttler
Roller Bearing Wagons
Do More Work Go More Miles

because the roller bearing runs easier and requires less power to pull the load. They do at least ⅓ more work (with the same team and over the same roads) than any other. They save time—horses—harness—feed—repair bills—greasing—trouble and wear on the wagon. They are much easier on the horses.

Write for our Free Book

which tells all about the improved and perfected Schuttler Roller Bearing Wagons and gives records of official tests by U. S. Government road experts.

PETER SCHUTTLER CO.
2508 W. 22nd St., Chicago
The World's Greatest Wagon Factory
Established 1843

WE CAN SAVE YOU 20%

LET US SEND OUR LARGE HARNESS CATALOG

DO NOT BUY HARNESS of any kind until you have seen our catalogue. We are selling strictly custom-made harness. The Famous Aniser Brand, direct from our factory to the farmer. WE SAVE $10.00 to $15.00 per set. OUR CATALOGUE illustrates 1500 bargains in harness, saddles, buggies and wagons, it should be in every farmer's hand as a Buyer's Guide. Free upon request. **SEND FOR IT TODAY.**

ANISER HARNESS MFG. CO., Dept. 132F, St. Joseph, Mo.

FARM FURROWS
TURNED BY A PRACTICAL FARMER

The hog has been called the mortgage lifter and the cow the home builder. These are both well named, but what of the faithful horse whose hard work supplies the "sinews of war" for the whole shooting match?

We will not have perfect dirt roads as long as there are places along the roadsides where water can collect and stand until it evaporates or soaks into the soil. When our roads are thoroughly drained we will have taken the first long step toward permanent roads.

Look for lice on the calf with the rough coat of hair.

Now is a very good time to look over the orchard and do the necessary trimming. Bruised, twisted and crossed limbs and young shoots that will make undesirable branches should be removed and all wounds over an inch in diameter should be covered with paint or grafting wax to keep out the water and air.

Why not seed the bearing orchard and utilize the grass for sheep grazing?

The calendar tells that it is winter, but the weather man seems to be trying to make us forget our usual winter troubles.

At the present time a pound of butter fat is worth more than a bushel of corn or oats. Is it any wonder that the dairyman is pleased with his work or that the silo is gaining in favor?

That's the ram still running with the ewes, isn't it? Looks like poor management.

Buckwheat cakes "take the cake" as breakfast food these bright, crisp mornings, and for this also "there is a reason," especially with the man who must put in a hard half day's work before another square meal is due.

Clip the long hairs from the horses' fetlocks, to prevent the snow and ice from clinging to them.

The farmer who has a supply of corn fodder stored in the barn or stacked up in the yard can well afford to keep two or three cats. The main objection to corn fodder is that it makes such a perfect home for rats and mice.

Hang right onto the more mature sows till you see if the young sows are going to prove prolific breeders.

Crushed oyster shells are a necessity to hens on a farm where coarse sand or gravel is scarce. It is the only "teeth" they have and to get any benefit from their grain they must "chew" it in some way.

The white pine is the favorite tree with many as an evergreen wind break and in localities where it will thrive there is nothing better. It is a fine-looking tree and keeps its lower branches longer than the others of the pine family. It is worthy of a trial as a useful tree, but may be a disappointment as an ornament.

Intensified farming indicates an intensive thinker behind the work, and one that is apt to reason out success in anything he undertakes.

Plan to plant a good bean patch. There's big money in beans, besides providing for a season's supply for use in the farm household.

Avoid the horse with a straight hind leg, as the pressure on such a form of limb while he is at work will cause hoof, joint and muscular ailment.

Too many farmers try to make chick coops of a neat appearance, with little or no thought as to comfort, ventilation and sanitation. Every chick coop should have ample ventilation that would not come in on the little fellows' feet, protecting from rain, and be kept cleaned out well—fresh air, freedom from dampness, filth and vermin—these are essentials that are too often missing in the chick coop. Take a good look at yours.

There is a big, long risk to run and a market to gamble with when handling the steer, but the dairy cow rolls in the profits steadily every month in the year.

When a horse begins to act somewhat sick, don't dope him with drugs, but cut down his rations a little and let Dame Nature try her hand in restoring him to a normal condition.

Power For Every Job

This spring, if you have the "old reliable"

Hart-Parr Oil Tractor

to back you up, you can do all your plowing, discing and seeding in quick succession without delay. Do it all in half the time it takes you with horses. Easily save 50c to $1.00 an acre.

As soon as spring opens up, you start your steel muscled Hart-Parr and work it at full speed. Finish several weeks ahead of your neighbor, who must first round his horses into shape to stand the heavy strain.

There is almost no limit to the time saving and money making ability of a Hart-Parr Tractor. You can harvest and thresh with it. Grind feed, shell corn, husk, fill silos, haul crops to market, make good roads; in fact, do countless farm jobs that require big, dependable power.

One man easily operates and cares for the tractor. It uses **cheapest kerosene** at all loads. Costs little for up-keep. Has record for fewest repairs. Many other important features are fully explained in our new 1913 catalog.

Write for a copy and also get our literature on power farming costs.

HART-PARR COMPANY
228 Lawler St. Charles City, Iowa
68

Hamstring the Snout of your HOGS with a

BELL-HART Anti Rooter

A boy can ham-string the snout of a hog in a moment with a BELL-HART tool.

STOP THE ROOTING.

Once done, always done. Mr. Hog hasn't the power to lift the sod. Does not disfigure the finest show stock. Most humane of all known methods. Be the first to use the BELL-HART tool in your neighborhood.

Ask your dealer—if he does not carry it send us his name and $2.50 and we'll send you tool prepaid.

Write for Booklet which tells the interesting story about the discovery and advantages of the Bell-Hart Tool.

BELL-HART TOOL CO., Manufacturers, Department 5. Palmyra, Illinois.

STRONGEST FENCE MADE
FROM FACTORY DIRECT TO FARM

26-inch Hog Fence.....13½c.
49-inch Farm Fence.....22c.
48-inch Poultry Fence.....22c.
80-rod spool Barb Wire, $1.40

Many styles and heights. Our large Free Catalog contains fence information you should have.

COILED SPRING FENCE CO. Box 20 Winchester, Ind.

How Studebaker Automobiles Are Made

A Heart-to-Heart Story. No. 2

In our February 6th issue we sketched the story of Studebaker steels and how we treat them. We tried to convey some slight idea of 40 drop forges, each with a touch now delicate, now tremendous. We told our readers something of our 40 heat-treating ovens, where steel is baked until the metal is harder than steel-armor and with a grain as fine as silk.

Today we shall move on from the great opening channels of Studebaker automobile manufacture into the shops, with their thousands of automatic machines and myriads of workmen. We do

Inspecting a finished piston with dial-faced gauge that measures to the thousandth part of an inch.

this in order that you may clearly understand the wonderful thoroughness and care with which every Studebaker car is built and so that at the end of these brief talks you can honestly say: "I believe in Studebaker cars. They are built as I would wish my own car to be built." If only we can describe clearly a little of this wonderful manufacturing organization we shall be satisfied.

First, a further word about automobile manufacture in general. We spoke last time of the difference between an "assembler" of automobiles and a real manufacturer, and the advantage every genuine manufacturer offers to a buyer. Bear this in mind as we go on.

The quality of any automobile depends—first, on the engineers' designs; second, on the steels of which the parts are made, and third, upon the workmanship which builds the car.

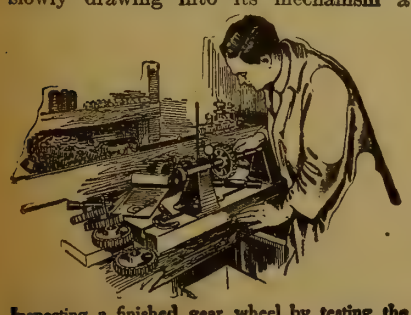
It is of this third point of which we shall now speak.

From the forge shop, the foundry, the heat-treating rooms, the steel mill, the rough parts enter the machine shops.

In machinery for building Studebaker cars we have invested millions of dollars. Why? Because that kind of manufacture is the best, and it is a prime Studebaker principle that the best is always the cheapest. No machine remains in our plants after a better one for its purpose can be secured. That is why Studebaker is always among the leaders. And because we build 50,000 cars per year it is cheaper for us to do this, although to a smaller manufacturer a similar investment is impossible.

There are 40 acres of floor space used in the manufacture of Studebaker cars, and fully half of this floor space is covered by the best machinery known to the art of steel manufacture. Some machines alone cost as much as $10,000. We buy them because thereby we build better cars at lower cost.

The other morning the writer stood beside an automatic machine which was slowly drawing into its mechanism a



Inspecting a finished gear wheel by testing the shape of the gear to the thousandth part of an inch.

two-inch bar of the finest special cone steel. In four automatic operations this bar of steel was being converted into ball cups for the ball bearings of the Studebaker "25" front wheels. The cup was completely shaped by this machine in two minutes, and it was accurate to within two thousandths of an inch. After being ground perfectly accurate in a special machine and heat-treated for tool-steel hardness and toughness, it is ready to assemble in the front wheel of the sturdy Studebaker "25."

Farmers see every Springtime the miracle of the growing seed; the unfolding and development of life. Here, perhaps, is a miracle of man's ingenuity almost as marvelous. The cold bar steel enters and the finished bearing comes out. No man can see the wonders of modern automobile manufacture without being struck with admiration.

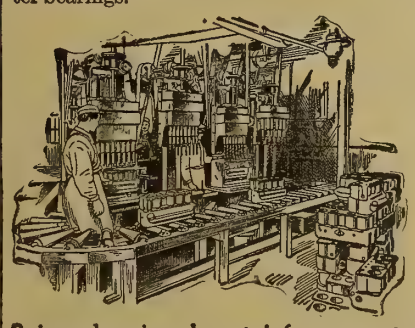
In the room with this same machine there are 100 other machines, and each machine cost over $2,000. The room is 300 feet long and 60 feet wide, and there are three automatic machine rooms of this size in the Studebaker plants. There are 296 automatic machines of similar type in the Studebaker automobile plants. Most of the small steel parts in Studebaker cars are made in these machines; always with the same marvelous accuracy and rapidity. It seems colossal, but remember that we are building 50,000 cars this year, and only in this way can they be built so good and so cheap.

One man can operate several of these machines and it is only by reducing labor cost in this way that we are able to pay excellent wages and at the same time produce, for example, the $1,290 Studebaker "35," which has no superior under $2,000.

There are, of course, various parts too large to be manufactured by an automatic machine, and these must be ground under the supervision of an expert mechanic.

Take the Studebaker cam shaft, which raises and lowers the valves. It goes through two drop forges and is aged for several weeks before it is ready for the 24 remaining operations in its manufacture.

In the first operation it is cut to length; it is then put on special lathes and rough ground. It must go through several of these lathes—one to machine the shaft proper, another to "shoulder" the cams and bearings, another to machine the cams, a fourth to machine the end bearings, a fifth to machine the center bearings.



Boring and reaming valve seats in four motors at a time. The motors are locked in cast steel arms which hold them absolutely true. Consider the economy and accuracy of such manufacture.

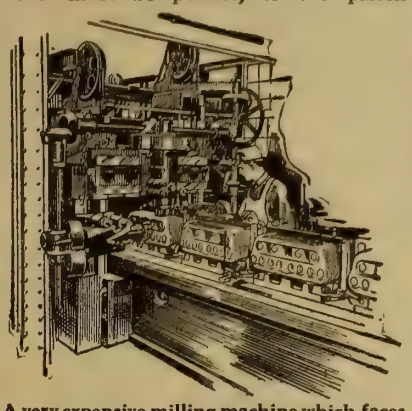
Then a heat-treatment tempers the core of the steel and a case-hardening oven bakes carbon into its surface until all the bearing surfaces are glass hard. It finally comes back to the machine rooms, where a vitrified emery wheel, turning over 1,500 revolutions per minute, cuts it within one-thousandth of an inch true.

When the last grinding operation is finished the cam shaft is handed over to a final inspector, who puts it on an absolutely true cast steel base and turns it under a dial-faced gauge which tests it to the last shade of accuracy. This inspector is provided with an India oil stone as fine as a razor hone, and when he is done with the cam shaft it is absolutely perfect.

Notice here that every cam shaft we build is identical to the last fraction of fineness with every other similar cam shaft and any shaft could be changed from car to car and give perfect results. A rifle barrel which shoots to hit and kill at a mile range is not as true as a Studebaker cam shaft.

Consider a Studebaker piston for a moment. It is cast from clean, pure grey iron. Its head is mirror polished to make it too slippery for carbon to adhere to it. It is slowly ground around its diameter of 3½ or 4⅛ inches until it is absolutely true, and its upper surface a few thousandths smaller than its lower surface in order that the expansion under the greater heat at the top may be compensated for.

The boring for the wrist pin bearings which hold the piston to the connecting rods must be perfect, or the piston



A very expensive milling machine which faces three sides of the cylinder at once, four cylinders at a time. Each cylinder is locked in a steel "jig" which holds it rigidly accurate to the grinding tools.

will not run evenly in its motor. Grooves must be cut for the piston rings; another very delicate operation, and when the piston is done it must equal, within a small fraction of an ounce, the weight of every other similar piston.

This is done so carefully in order that every Studebaker owner may get from his car service equal to that of the highest-priced cars built. The Studebaker organization has been doing business for 60 years, and it looks to the future confident, not so much in its reputation for square dealing as in its knowledge that every piece of work which leaves the Studebaker factories is creditable to the finest ideals of business skill and responsibility. We are selling not only cars which look surpassingly good, but cars that down to the last hidden detail are built to deserve every man's confidence.

Turning to the crank shaft for further illustration of Studebaker manufacture, we could fill this entire page in describing the machinery and operations necessary to make it. It is one of the most difficult parts of an automobile to make. There are no less than 12 standard tests through which a Studebaker crank shaft must pass before it can be used in a motor. These tests limit in accuracy to one-thousandth part of an inch and to the smallest fractional part of an ounce in weight. In other words, a Studebaker crank shaft must be perfectly sized and balanced.

Another very important matter in the operation and durability of a motor car is the way the gear wheels are cut. From our last story you know something of the fine materials which enter the construction of all parts of Studebaker cars. A Studebaker gear is first drop-forged, as we have described, in what is known as a "blank." That is, the gear at first has no teeth. It is then milled for perfect roundness and perfect center on its axis. Then it is ground for perfect width.

After it is made into a perfect "blank," the teeth are roughed out and it is ready for the cutting machine—one of the most remarkable machines ever made and, incidentally, a machine developed by a woman. This grinder cuts the finished tooth and the job is a mighty particular one. The unique teeth on Studebaker gears represent perfect efficiency curves, which means that a tooth in a Studebaker gear is in perfect contact from the moment it engages with another tooth until it disengages from that tooth.

Finally when the gear has completed its long journey through the shop it arrives at the inspector's table. He has an expensive machine, which is equipped with a master gear. The new gear is clamped into this testing machine and is rotated with the master gear in both directions under various pressures and at various speeds. If it is not perfect it will be noisy, and if it is noisy it is discarded.

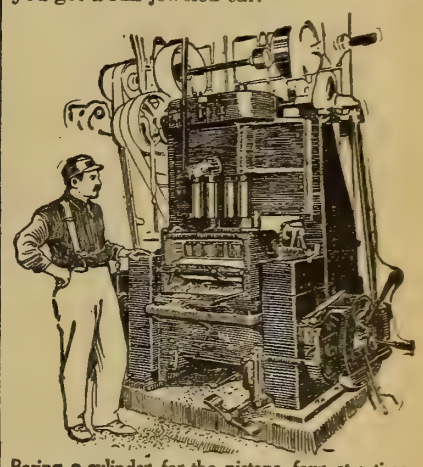
Thus we might go on describing part by part the manufacture of Studebaker cars. We shall close, however, with a final paragraph which we want you to consider deeply and carefully.

Quality in an automobile, as we have already said, depends upon the workmanship. The workman must depend to a certain extent upon his tools. If we were building a $5,000 car we could not buy more expensive or better machinery. We could not employ more skilful labor than we do. We could not require higher standards for accuracy. In fact we do not know how we could improve any of the vital parts of our cars. If we did, we would do so. We have an immense factory which covers nearly 40 acres. Our 60 years in the manufacturing business has given us—first, unquestioned manufacturing experience; second, financial resources sufficient to enable us to provide every mechanical facility known to the art of building quality motor cars.

It is for these sane and convincing reasons that Studebaker cars are such wonderful values. Believe in them, because from top to tires they are skilfully and honestly built. On these grounds we expect to interest you.

Naturally, we can understand why some cars cost more than others, for we ourselves manufacture one car at $885 and another at $1,550. But in the vital parts of each car we use exactly the same material, exactly the same expert workmanship. Studebaker standards of accuracy are just as high for the cheaper car as they are for the higher priced car. In fact, these two cars are almost identical in design.

The difference is merely a question of size. Just as watches are made in different sizes, so Studebaker automobiles are made in different sizes. In each case you get a full jeweled car.



Boring a cylinder for the pistons, four at a time. One of the most particular operations in the manufacture of an automobile.

A further description of Studebaker automobiles will appear in the March 6th issue, taking up the advanced stages of Studebaker manufacture. We trust that you will be looking for the coming story.

We regret that we could not go more into detail of manufacture in this story, but we are glad to invite you to send for our "Proof Book," which describes more fully some of the processes of manufacture and which tells the story more clearly by copious illustrations. You are welcome to it and upon your request we shall be glad to send it to you, together with our catalogue. Tear off the coupon below.

THREE GREAT CARS

Studebaker "25" Touring Car, $885
5 passenger—Gas starter.

Studebaker "35" Touring Car, $1290
6 passenger. Electric lights, electric self-starter.

Studebaker "Six" Touring Car, $1550
6 passenger—Electric lights, electric self-starter.

All prices; completely equipped f. o. b. Detroit.

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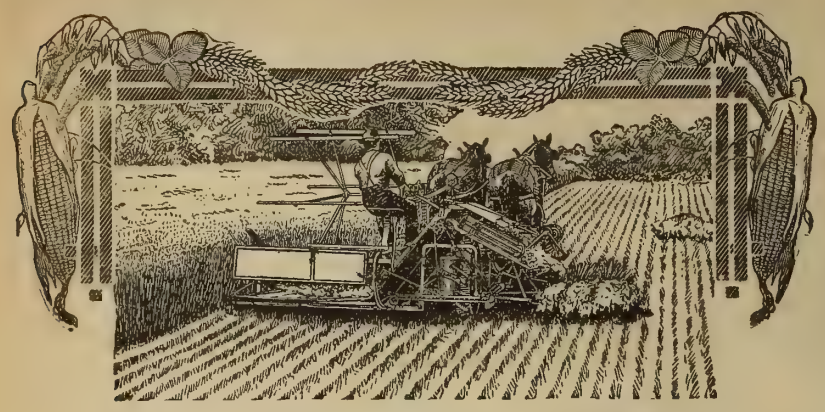


Take Advantage of Our Seventy Years' Experience

SEVENTY years' experience with harvesting and haying machines and tools and with equipment for building them economically; seventy years of exhaustive experimenting, testing, field work, and distribution constitute a tremendous advantage in favor of our machines.

Years ago the basic patents on these machines ran out Anyone who wants to may engage in their manufacture. But it is one thing to build binders and haying tools, and another and entirely different thing to build guaranteed machines and sell them at the prices of ours. Farmers have learned to value the high standard of quality which accounts for the dependability of harvesting and haying machines and tools bearing the well-known names

Champion Deering
McCormick Milwaukee
Osborne Plano

Changes in the construction of these machines are made only when actual work in the field shows the change to be an improvement. What changes are made add to the efficiency of the machine, and are not made simply for talking points.

I H C machines have harvested the grain fields of the world so long, have met and conquered so many kinds of difficulties and adverse conditions, that there is now no question of their capacity for cutting, binding, and saving all the grain in any field, whether it be heavy or light, tall or short, standing, down or tangled.

The time to investigate harvesting and haying machines and tools is before, not after, you buy. Ask your neighbors for their opinions of the machines they use. Some will favor one, and some another, for various reasons which may have a very decided influence on your buying, but you will find them unanimously in favor of one or another of the machines we sell.

Good binding demands good twine as well as a good machine. The strongest and smoothest is that sold by the I H C local dealer. It comes in balls guaranteed for length and weight, and is marketed under the trade names, **Champion, Deering, McCormick, Milwaukee, Osborne, Plano, International.** There are four grades of each brand—Pure Manila, Manila, Sisal, and Standard.

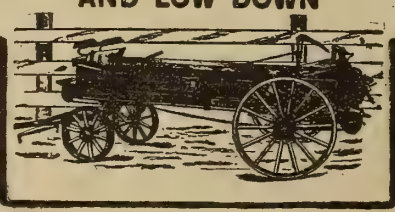
Let others do the experimenting with untried machines and untested twine. See the I H C local dealers handling these machines and get from them the reasons why I H C harvesting and haying machines and tools, and binder twine are the best you can buy. The I H C local dealers will supply you with catalogues and full information, or, write

International Harvester Company of America
(Incorporated)
Chicago U S A

APPLETON

RETURN APRON ENDLESS APRON
AND LOW DOWN

MANURE SPREADER



Solid oak, trussed frame; worm and worm gear apron drive, encased, runs in oil; wood or steel wheels.

So simple a boy can run them. Apron works over chilled rollers. Wide seat, comfortable foot rest.

Appleton Manure Spreaders always give long service; spread even, pull easy; because they are perfectly designed and honestly constructed. An Appleton Manure Spreader is a profitable machine for you to buy. Its use keeps your land healthy and in highest productive condition—that means paying crops. Write today for Free Catalog illustrating and describing our 10 styles.

A complete line of machines in stock in your territory.

APPLETON MANUFACTURING CO., 239 Fargo St., Batavia, Ill.

CURRENT EVENTS

JAMES A. PATTEN, the noted cotton and grain speculator, has pleaded guilty to a violation of the Sherman anti-trust law and has been fined $4,000 and costs in the federal court, the fine being promptly paid. It will be recalled that the United States Supreme Court recently decided that an attempt to corner the market, either in grains or any other commodity, was a combination in restraint of trade fully as much as a merger of concerns in a big mercantile trust. This decision was handed down in the Patten case and after considering it Mr. Patten changed his plea to guilty, although denying that he had wilfully or knowingly committed any offense. The decision and Mr. Patten's plea will go a long ways toward deterring any other attempt to corner any grain market, for while the $4,000 fine is merely a nominal one, so far as Mr. Patten is concerned, the government has given warning that future offenses will be dealt with much more vigorously, with prison terms imminent.

CAPT. ROBERT SCOTT, of the British navy, reached the south pole only a month after it had been discovered by Capt. Roald Amundsen, the intrepid Norwegian, but Scott perished in the attempt to return to civilization. Five of the leaders of his party lost their lives in a terrific blizzard which swept over the antarctic regions, so that his heroic feat was futile, except for the admiration it arouses for the deeds of brave men. Great Britain had hoped to be the first to reach the south pole, both Scott and Shackleton making heroic efforts to be the first to have this honor, Shackleton coming within 100 miles of the pole on his last trip. It was in a close race with Scott that Amundsen discovered the pole, being so fortunate as to reach his goal in a dash of thirty days. He has returned safely to civilization and is now engaged in lecturing in this country, preparatory to leaving in a year or two for a slow drift to the north pole, thus adding to his fame which began when he was the first man to discover and to navigate the famous Northwest pas- fame and a gallant seaman. He headed one of the largest and best equipped scientific expeditions that has ever set out on an exploring tour. The records found on his body show that he discovered Amundsen's hut and Norwegian flag at the pole when he reached there, thus completely verifying the claims of the famous Norwegian. There has been no controversy over Amundsen's title to south pole honors as there was over Peary's, due to the claims of Dr. Cook.

CHARGES of incompetence in the reclamation service are made by the congressional committee on interior department expenditures. It is claimed that the director of the service and his associates have discriminated "against the farmers and that the corporations operating the canals and the bondholders thereof alone received attention" on some of the largest projects now under way in the arid West. Director Newell indignantly denies the accusations and claims that they are based on antagonism to the conservation policy of the government. He answers the charges in this spirited manner: "It is a poor reward for faithful performance of duty to be compelled to submit to an attack so partisan and unfair as contained in this report which bears no signature. It looks like another adroit attack on conservation, the kind its friends expect with every change of administration. The report is a jumble of half truths and whole misstatements." Heretofore the reclamation service has been unquestioned and quite generally commended, millions of acres of arid land having been irrigated and converted into productive fields. At the same time, extensive land frauds have been by no means infrequent in the West and unscrupulous promoters have operated under the apparent protection of federal and state laws. It will be a good thing for the entire country (and not alone for farmer investors) to have the whole question of reclamation and land promotion in the West thoroughly investigated. Too much is at stake to allow the tillers of the soil to be defrauded and lured into new lands by will-o'-the-wisp promises incapable of fulfilment.

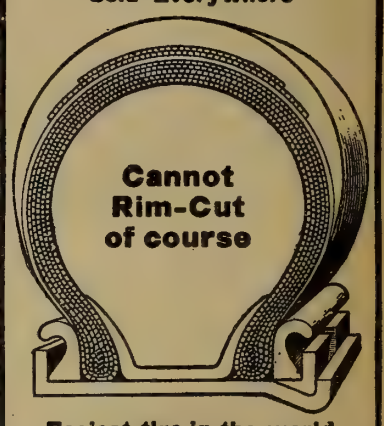
A BILL to prohibit the interstate shipment of intoxicating liquors into prohibition states, in conflict with existing state laws, was passed last week by both houses of congress. The bill was strenuously opposed by the liquor forces, but passed both houses by a decisive vote, 61 to 23 in the senate and 240 to 65 in the lower house. The bill had heretofore been opposed by Senator Smoot, of Utah, but a change of front in the Mormon church, which

GENUINE DUNLOP
STRAIGHT SIDE TIRE

The *premier* automobile tire of the world. Is made exclusively by the

UNITED STATES TIRE COMPANY

Sold Everywhere



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Fairbanks-Morse Eclipse Engines

Two Sizes: Furnished With or Without Pump Jack

A pint of gasoline will run the No. 1 Eclipse engine an hour and pump over 1000 gallons of water against 80 foot head. Adapted to running cream separators, churns, corn shellers, grindstones, ice cream freezers, etc.

Handy Reliable Low Priced

As simple as it is possible to make a practical, powerful engine. Manufactured in our immense factory on the latest automatic machines. Large, dust-proof bearings. Thorough lubrication. All like parts absolutely interchangeable. Starts easily at any time. No danger from freezing.

No. 2 Eclipse Engine is twice as powerful as No. 1. Recommended for deep well pumping, wood sawing, feed-grinding, etc. State quantity of water desired in 24 hours and we will send catalog No. FB 603

Fairbanks, Morse & Co.
900 S. Wabash Av., Chicago, Ill.
Fairbanks Scales, Oil Traction Engines, Water Systems, Electric Light Plants, Pumps Windmills, Feed Grinders.

dominates Utah politics, led to a removal of the former opposition. The new law will not interfere with the shipment of intoxicating liquors to private consumers, but will make it impossible to ship liquor from another state into a prohibition state for general use or sale, either at wholesale or retail. It is looked upon as a decided victory for the anti-liquor forces. Senator Kenyon, of Iowa, championed the bill in the upper house and deserves much of the credit for the ultimate victory.

JAMES HAMILTON LEWIS, of Chicago, a former member of congress from the state of Washington, has been endorsed by the democrats in the Illinois legislature for the United States senate to succeed the late Shelby M. Cullom. Mr. Lewis has failed of election thus far, however, the legislature being deadlocked, with the vote divided as follows: Democrats, 94; republicans, 74; progressives, 24. The republicans have agreed upon Lawrence Y. Sherman for the senate and the progressives upon Frank H. Funk, but unless a coalition can be made the deadlock promises to continue for some time to come. For the vacancy caused by the ejection of Senator Lorimor the Illinois democrats have agreed upon C. P. Boeschenstein, but the shorter term office will not be filled until the long term election has been held, so Illinois bids fair to be unrepresented in the senate for some little time to come. The legislature was hopelessly deadlocked for a couple of weeks on the question of speakership of the lower house, until the democrats were successful in electing Wm. McKinley. It was claimed then that some trade had been made on the senatorship, but this has not yet developed. It is sincerely to be hoped that no scandal will mark the present deliberations as were discovered after the election of Senator Lorimor.

GENERAL FELIX DIAZ, the nephew of former President Porfirio Diaz who headed a recent revolt and who has been imprisoned since that time, was released by an uprising of his followers early in the week and now heads a revolution which bids fair to unseat the Madero government. General Reyes, one of the oldest and best known of the followers of former President Diaz, was killed in the early stages of the revolution. Felix Diaz was formerly chief of police of the City of Mexico and is a picturesque and strong character. His present successful revolt was brought about by the loyalty to him of the federal troops, which rebelled against President Madero and released Diaz from prison. American lives and property have been endangered as a result of the revolution so that it is extremely possible United States troops may once more be mobilized on the Mexican frontier. Affairs in the southern republic have been exceedingly uncertain since the overthrow of President Porfirio Diaz, who had held affairs in an iron hand for the third of a century during which he was in complete control. American intervention may be forced in order to protect American lives and property, particularly as a terrific battle has raged in the heart of the business district of the City of Mexico for several days hundreds of lives being lost already by the fierce artillery duel.

WISCONSIN CHESTER WHITE ASSOCIATION.

The managers of the Wisconsin State Fair will be asked to provide a Chester White breeder as one of the judges in the swine department at the 1913 exposition. Prominent Wisconsin breeders of Chester White and O. I. C. swine who attended the organization meeting of the Wisconsin Chester White Breeders' Association held in Madison last week believe that their breed is entitled to this recognition. James Fisher, of Eastman, was elected president; William F. Belda, of De Forest, vice-president; A. H. Kuhlman, of Lowell, secretary and treasurer; William F. Butts, of Brooklyn; F. D. Wilke, of West Bend, and Chris Schroeder, of Racine, members of the executive committee of the organization.

During the last year the Chicago packers cleared $850,000,000, according to report.

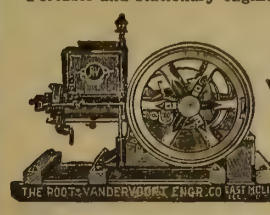
John Deere Implements

JOHN DEERE — MOLINE, ILL. — THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

R & V "Triumph" Gasolene Engines

Popular Farm Power

Develop even more than rated horsepower.
Easily started, smooth-running, dependable. Economical in use of fuel.
Speed easily increased or decreased.
Best type of magneto on the market.
Portable and stationary engines.



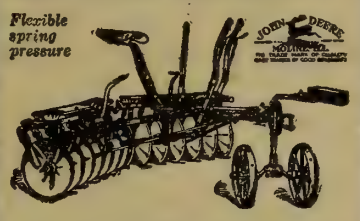
Light
Well Built
Durable
Neat
Compact

R & V "Triumph" Engines can be furnished in sizes 1 to 12 hp., with the hopper-cooling system. The cooling system does away with tank, pump, piping and fittings, making a neat, compact engine noted for its good working qualities. No air-cooled engine troubles to contend with.

Letting Gasolene Do It tells you about the convenience and money-saving points of a gasolene engine. Get this book and see how you can make your work easier. Lower left-hand corner of advertisement tells you how "to get these books."

John Deere Disc Harrows

Flexible spring pressure



Is the only spring-pressure harrow, and, therefore, only flexible harrow built. Spring-pressure secures greater penetrating power and more thorough cultivation. Instant leveling for all conditions enables operator to keep all discs cutting an even depth. High, solid steel gang frames make it extra stiff and strong, and give extra clearance.

Bigger Crops from Better Seed Beds Tells you how to prepare your seed beds for a bigger and better crop yield. You'll profit by reading this interesting little booklet. Lower left-hand corner of ad. tells you how "to get these books."

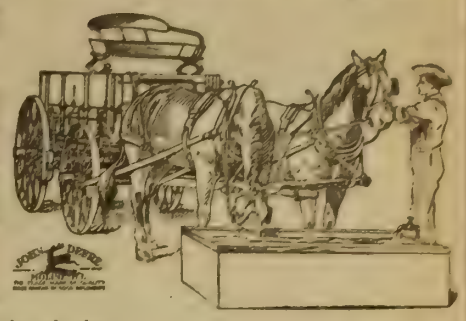
Better Farm Implements and How to Use Them

Illustrates and describes the most complete line of farm implements. Tells how to adjust and use them under varying conditions. It has a practical encyclopedia for the farm, and is worth dollars to you.

To Get These Books Write to us at once stating which books you want, and they will be mailed free. To to be sure that you get a copy of *"Better Farm Implements and How to Use Them"* ask us for Package No. X-27

Davenport Roller Bearing Steel Wagons

There is a wagon made that is stronger, more durable and of lighter draft than any other. This wagon is



Built Like a Bridge

Entirely of steel I-beams, channels and angles, solidly held together with large steel rivets, put in hot under great pressure.
Like the steel railway bridge, it is constructed for hardest lifetime service. Strong and durable.
Each front gear and each rear gear is practically one solid piece that can not come loose or apart.

Steel Wheels

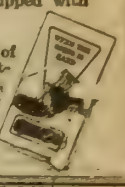
This wagon has steel wheels that are trussed and made with a tension, the strongest known wheel construction.
Every spoke is staggered and forged hot into the tire.
Regardless as to whether the spoke is at the top, side or bottom of the wheel, it always carries its share of the load. Wheels on a Davenport wagon will stand up and work indefinitely.

Roller Bearings

That roller bearings reduce draft is generally conceded. Of the various styles, the straight roller bearing is the simplest and most successful. They are practically everlasting.
For this wagon, the straight roller bearing is especially adapted.
The spindles and hubs are straight. Consequently, as this wagon is equipped with straight roller bearings, it is of light draft.

The Roller Bearing

When the Going is Hard is the title of an interesting little booklet on the wagon question. It contains twenty-six of the best articles on wagons that have been written. See lower left-hand corner of this advertisement for how "to get the book."



Aspinwall Potato Planter

The Leading Potato Planter in All Potato Growing Sections

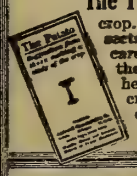
Accuracy in a Potato Planter is the prime essential. This is found in the *Aspinwall Planter*—a machine that is staunchly built, will do good work and is easily handled.

CONVENIENTLY OPERATED

Both feed and coverer tension are regulated from the seat. No removal of bolts—simply turning the thumbscrew does the work.
All parts are thrown in and out of gear automatically when lowering the plow for work or raising it at the end of each row.
This machine plants a greater range of seed, as to size and shape, does it easier and with less friction and wear, than any planter of its kind.

DOUBLE ROW PLANTER

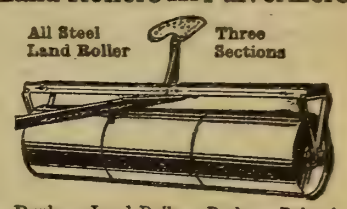
A double row machine is made with extra large hopper capacity.
Either single or double row planters may be equipped with fertilizer attachment.
The *Aspinwall* is absolutely the only machine that will plant potatoes of any size without adjustments.



The Potato Suggestions from those making a study of the crop. How to rid the plant of insects; how to plant potatoes; the care of the crop, and how to dig them. You will find it a great help in making your potato crop. Lower left-hand corner of ad. tells you how "to get these books."

Dunham Roller-Bearing Land Rollers and Pulverizers

All Steel Land Roller — Three Sections



Dunham Land Rollers, Packers, Pulverizers, and Sub-Surface Packers are made for every purpose and all soil conditions. Only first-class material enters into their construction and they do good work even under the most adverse conditions.

Light Draft—Roller Bearings

The Dunham Pulverizers, Packers and Rollers are the only ones today equipped with Roller Bearings. The bearings revolve in the end bracket casting and the axle in turn revolves within the bearing. All bearings furnished with hard grease cups.
Dirt proof caps fit snugly into the shoulder on the end bracket castings, completely covering the end of the axle and making the roller bearing construction absolutely dirt-proof.

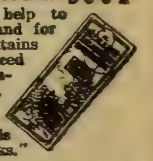
Do Good Work

Dunham Land Rollers and Pulverizers will break up the lumps, smooth off the field and give a perfect foundation for a full even growing crop.

Absolutely Dirt-proof — Runs 44 per cent easier than others

Roller Bearing Construction

The Roller Bearing Dunham A little book that will be a great help to you in preparing your land for seed this spring. It contains suggestions from experienced men on the proper preparation of the land for the seed, and you will profit by getting this book. Lower left-hand corner of ad. tells you how "to get these books."



John Deere Plow Company
Moline, Illinois

Towers' Surface System

Kills weeds; damages no corn roots; enlarges yield

Towers' Cultivator stirs every inch of ground between the rows; makes a dust mulch—to retain moisture and furnish liquid food for the plant; preserves crop roots; slaughters weeds; prevents "firing" of corn. **Increased yield, earlier maturity of corn, cotton, potatoes, etc., will result if your 1913 cultivator has the name**

"TOWER" on the tongue

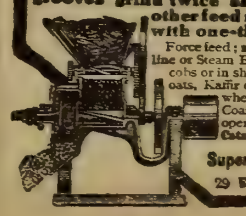
Lighter draft on team; easier to manage—a boy can do it. Send a postal for our free "Treatise on Corn Culture."

J. D. TOWER & SONS CO., 40th St., Mendota, Ill.

Better Results with Less Power

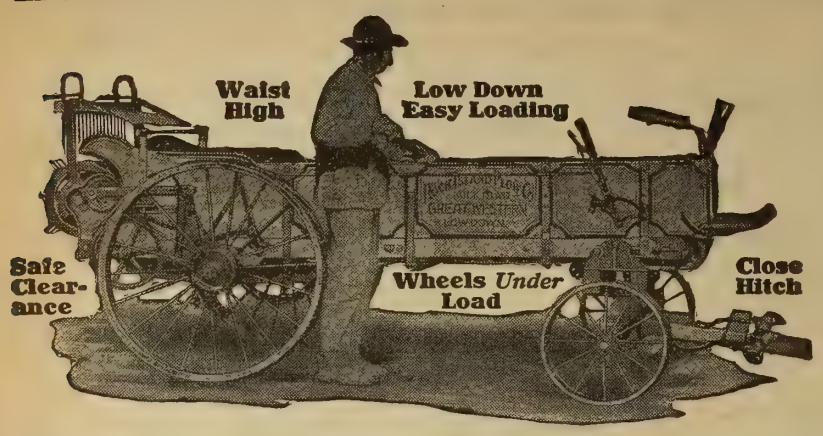
SUPERIOR DUPLEX MILL

Double grinding rings with saw tooth grooves grind twice as much as any other feed mill of same size with one-third less fuel.



Force feed; never chokes. For Gasoline or Steam Engine. Grinds corn on cobs or in shucks, shell corn, shell oats, Kaffir corn, alfalfa, oats, rye, wheat, barley, cotton seed. Coarse or fine. Easy to operate. Fully guaranteed. Catalog FREE. Write today.

Superior Mfg. & Mill Co.
29 East St., Springfield, O.



How to Save the Most Money

On Your Manure Spreader

Buy the best to begin with! That's it—the *best*—regardless of first price! The *cheaper* the spreader, the *more expensive* it is in the end. Get the spreader that thousands have proved, in over twelve years' use, the biggest money-saver and money-maker. The Spreader that has stood every test is now made *low down* for easy loading—the kind you'll buy sooner or later. Buy it now!

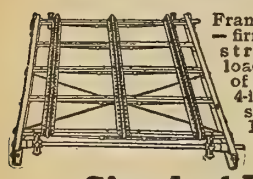
The Proved Spreader—It's Special Features

Low Down—Waist High—Safe Clearance—Short Wheel Base—Wheels Under Load—Roller Bearings—Lightest Draft—Simplest Drive—Avoids all Trouble of Enclosed Gears—Most Durable Beater—Trussed Steel Frame—Indestructible Front—Perfect Construction.

LIGHT DRAFT—LOW DOWN

Great Western

Trussed Steel Frame



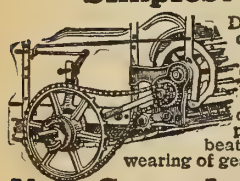
Frames of trussed steel—firmly braced—great strength. Weight of load, beater and force of operation all on the 4-inch steel sills. Can't sag, spring or give; 102 rollers to carry endless apron.

Front Won't Pull Out

Double heavy oak bolster—16-inch fifth wheel—every part extra strong.

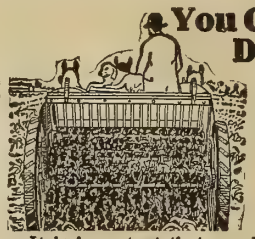
GREAT WESTERN fronts *will not pull out.* They are built to stand the heaviest strains.

Simplest Drive



Direct chain drive—no complicated gears—everything in plain sight. The simplest, strongest, most sensible drive on any spreader. No parts in motion when beater is not in use—no wearing of gears or chains.

You Can Top Dress Corn



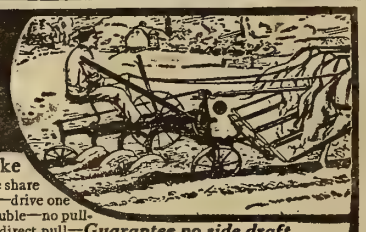
GREAT WESTERN rear wheels track with the front; you can straddle two corn rows for top dressing growing crops. This you can't do with narrow front trucks.

GREAT WESTERN means an easier pull—only two tracks across yards or fields.

New Spreader Book Free It is important that you learn all about this *old reliable* GREAT WESTERN in its new *low-down* form. Be sure to write at once for Free Book describing it in every detail and proving why it's best for you or any man. Get it now. Shows all the detail of this old reliable GREAT WESTERN now made *low down* for easy loading. The cuts and details prove why it's the one perfect spreader. It's the one spreader that will just suit you in every way.

Rock Island Plow Co., 184B 2nd Ave., Rock Island, Ill.

Plow More in a Day



Divide the pull evenly between your horses and make plowing easy. Gamble Equalizers give each horse exactly the same share of work—make plow teams easy to manage—*make your work easier*—drive one horse in furrow and three on unplowed ground. No worry—no trouble—no pulling out of the furrow—no chance for tugs to injure horses. Give direct pull—*Guarantee no side draft.*

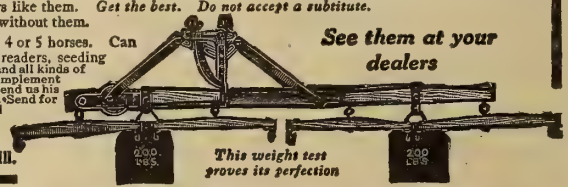
The **Gamble 4-horse Equalizer** works 4 horses abreast to gang plow with one horse in the furrow and 3 on unplowed ground. Equalizer in illustration evens pull on 16, 18 and 20-inch sulkies with clevis hitch and 12 and 14-inch disc gangs. Also on disc sulkies and 12 and 14-inch gangs having wide draw head.

Gamble Equalizers Guaranteed

to give perfect satisfaction and work as we say or *money refunded. There is only one genuine* Gamble Equalizer fully protected by patents—no others like them. *Get the best. Do not accept a substitute.* Cost so little you can't afford to be without them.

Gamble Equalizers made for 3, 4 or 5 horses. Can be used on farm wagons, manure spreaders, seeding and harvesting machines, hay loaders and all kinds of plows and harrows. See them at your implement Dealer's. If he does not handle them, send us his name—we will see that you are supplied. Send for FREE illustrated catalog showing full line of GAMBLE EQUALIZERS.

See them at your dealers



This weight test proves its perfection

STAR MANUFACTURING CO.
Dept. I. H. 1, Carpentersville, Ill.

Original and Only Low-down Spreader.

Light and Strong.

Pulverizes. Never Clogs. 3-row Spread. Solid Bottom.

Spreads all Manures.

New Idea Manure Spreader

Not a mere *unloader*—does not dump in piles. The only spreader with double beaters and revolving distributing paddles, which cut the manure into shreds and spread it *evenly* over three full rows—5 to 7 feet. No choking. No bunching. Low-down. Easy to load. Tracks with standard wagon. Easy haul for double team. Solid bottom which never warps, breaks or wears out. No cog or bevel gears. Only perfect endless conveyor—cannot slip. All power direct from rear axle. Only two levers to operate. Strong metal wheels. Absolutely necessary for every grain and fruit farmer.

Write for New Catalog. Shows pictures and describes in detail. **New Idea Spreader Co., 144 Sycamore St., Coldwater, Ohio**

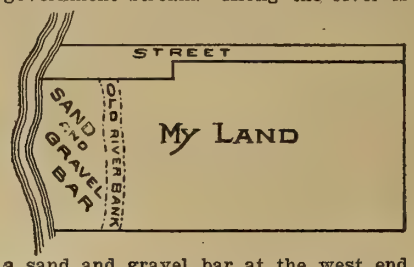
OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

BOUNDARY LINE—SANDBAR.

A Subscriber, Hawarden, Iowa.—I own four and a half acres of land on the Iowa side of the Sioux river, which is a government stream. Along the river is



a sand and gravel bar at the west end of my land. (1) Have people a right to go on this bar and haul away gravel and sand to sell? (2) How can I prevent them from doing so? (3) How close to the stream can an adjacent owner fence his land? See accompanying diagram.

Answer.—If the sand and gravel bar is on your land people have no right to take sand or gravel therefrom, and you can sue them for damages and can also obtain an injunction from the district court to prevent them from so doing. If the Sioux river is a navigable stream and forms a boundary line to your land, your line is at high water mark; if it is not a navigable stream your line is in the center of the stream, unless your deed describes it otherwise. If the bar was formed gradually between the present channel of the stream and its old bed and the stream was your boundary line then you own the sand bar, but if the stream changed its channel suddenly, your line is at the old bed of the stream. Your letter is indefinite as to your boundary line. An owner can fence his land where the boundary line runs.

NOXIOUS WEEDS—TIMBER LAND.

A Subscriber, Belle Plaine, Iowa.—(1) Whose duty is it to enforce the law in Iowa concerning noxious weeds, and what is the penalty for failing to enforce it? (2) I own forty acres of fine young hard wood timber land, which I use only for the fuel thereon, cutting the dead and inferior trees. I have asked the assessor to assess it as timber reservation, but he says I must place a nog-tight fence around it. This land does not join my farm and is not used for pasture. Does the law require me to fence it?

Answer.—(1) It is the duty of landowners to destroy noxious weeds growing upon their land. If they fail to do so after being so ordered by the township trustees, the trustees may cause such weeds to be destroyed at the expense of the landowner, to be recovered by a special tax certified by the township clerk in same manner as unpaid road taxes. (2) The law does not require you to fence your timber land.

DRAINAGE OF PUBLIC ROAD.

Mr. J. C. Kongsback, West Bend, Iowa.—My land is within an established drainage district and was assessed for the benefits thereof. After the district was established, and before the ditch was completed, I tile drained my land crossing the public highway and ran my tile drain along on one side of the road for some distance and left my tile empty on the side of the road, some distance from the county drain outlet. The water from said drain soaks the road grade and spreads over the ground at the outlet, destroying crops. The trustees directed me to tile drain to the outlet and after work was done asked me to pay half. My land is tiled and I think I should not pay anything unless I see fit to donate a part of it. The trustees allowed for the hauling of the tile, but nothing more as yet. Is it the duty of the board of supervisors to attend to the drainage of the road, or should the township trustees attend to it?

Answer.—It is the duty of the township trustees and the road superintendent to attend to the drainage of the road.

FENCING SCHOOL SITE.

A Subscriber, Stronghurst, Ill.—School grounds are located on the southeast corner of my land. A public road runs on the east side of the school grounds and also on the south side thereof. Am I required by law to construct and maintain the fence between my field and the school grounds?

Answer.—The title, care and custody of all schoolhouses and school sites belonging to a school district are vested in the trustees of schools of

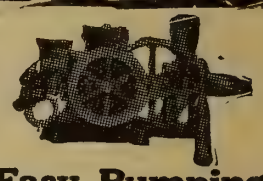
YOU ARE ENTITLED TO COLUMBIA

when you buy or use batteries. When buying insist on your rights. If you don't get COLUMBIA you don't get your money's worth.

Cost No More; Last Longer

Every dealer can furnish them if you insist

National Carbon Co.
Cleveland, Ohio
Factories in U. S. and Canada
Fahnestock Connections without extra charge.



Easy Pumping

Have you had to depend on the wind for pumping water? The wind is uncertain—the right way is with a

1½ h.p. Rumely-Olds Engine

You'll get your water at low cost, you save a lot of time and work—you'll have an engine that will do your pumping in a short time and be ready for general service the rest of the day. To make pumping no job at all, hitch this engine to a

Rumely Pump Jack

Then all your pumping troubles go. You have a real outfit at a very slight cost.

Rumely-Olds Engines are strong and simple—Rumely Pump Jacks are right, too.

Think the combination over—see if it wouldn't pay you to have it.

The Rumely-Olds 3 h.p. Engine will handle a bigger job—we have them in all sizes, stationary, skid mounted or portable—so we're sure to meet your requirements, and we have the proper pumping outfit for each size.

Write for the Olds Engine Data-Book No. 344, and the special folder on Rumely Pump Jacks—ask name of our nearest dealer.

RUMELY PRODUCTS CO.
(Incorporated)
Power-Farming Machinery
LINCOLN DES MOINES 55
Home Office: La Porte, Ind.

GET Square Deal PRICES

On Square Deal Fence First

Send for this catalog and price list. See what it means to you to buy a fence woven at the mill that makes the wire.

Square Deal Fence is elastic, springy—made from wire that is hard but not brittle. The wavy strand wires keep Square Deal fences tight and trim the year 'round. The one-piece stay wires help support the fence—keep it from sagging between posts and from buckling at the bottom to let the pigs under—requires fewer posts, saving money, time and labor.

The Square Deal Lock—"the knot with a grip that will not slip"—locks every strand securely so stock can't spread the wires. No brittle welds to snap—locks are all self draining—moisture will not remain in the knot and rust the wires.

Drop Us A Postal Today—get our catalog, price list, local dealer's name and a high grade, four-section folding 2-foot rule—all FREE.

KEYSTONE STEEL & WIRE CO. [11]
411 Industrial St.
PEORIA ILLINOIS

HARNESS -FOR ALL- PURPOSES
Made of Good Stock

Shipped direct from factory at factory prices. We guarantee to please and save you money. May we send you large FREE catalogue? Write for it now.
ELKHART CARRIAGE & HARNESS CO., Elkhart, Ind.

WANTED: A MAN OR WOMAN all or spare time to secure information for us. Work at home or travel. Experience not necessary. Nothing to sell. GOOD PAY. Send stamp for particulars. Address M. G. I. A., 552 L. Bldg., Indianapolis, Indiana.

the township where they are situated. If they choose to let the school ground lie open and unfenced, you will have to build the division fence yourself, but if they enclose the school site, you will be required to build half of the division fence, and the trustees the other half.

RURAL DELIVERY—INHERITANCE TAX.

A Subscriber, Marshalltown, Iowa.—(1) We live one-half mile from the rural mail delivery route. Can we compel the mail carrier to come within a quarter of a mile of our place, and if so, how shall we proceed? (2) What are the main features of the inheritance tax law in Iowa?

Answer.—(1) You cannot compel the mail carrier, to leave his regular route so as to come within a quarter of a mile of your house. You might possibly have the route changed by petition to the postoffice department, and the assistance of the member of congress from your district. (2) All property which passes by will or otherwise, to take effect after the death of the grantor, to any person, except father, mother, husband, wife, lineal descendant, adopted child or stepchild, or lineal descendant hereof, or to a charitable educational or religious society, hospital, public library or public art gallery, above the value of $1,000, is subject to an inheritance tax of 5 per cent on its value, after payment of debts, if the beneficiaries are aliens not residing in the United States, such tax is 20 per cent, unless they be brothers or sisters, in which case it is 10 per cent. Said inheritance tax is a lien on the estate from the death of decedent, until paid.

INSPECTION OF CATTLE—WISCONSIN.

A Subscriber, Fonda, Iowa.—I intend to move from Iowa to Wisconsin in February and will take with me some horses, cattle and hogs. Will I have to have these animals inspected before I start or after I arrive in Wisconsin? What must I do to fill all lawful requirements?

Answer.—The horses and hogs will not have to be inspected, but you will have to have your cattle inspected and get a certificate thereof, from a graduate of a recognized veterinary college in the United States, Canada or Europe, the certificate to accompany the cattle when shipped, and to show that they were free from disease, where shipped, and had been so for six months prior thereto. If you do not do this, you must have the cattle shipped in quarantine to first destination in the state of Wisconsin and there held and inspected by an inspector appointed by the live stock sanitary board of Wisconsin at your expense. The first way is the best.

DEED OF TRUST—DEFICIENCY—JUDGMENT.

Mr. Joel M. Scott, Muscatine, Iowa.—I hold two notes against B, who lives in Missouri, secured by a deed of trust on land. The deed of trust provides that "should the first party fail to pay the debt or the interest, or any part thereof, when the same shall become due, according to the true tenor, date and effect of said notes, then the whole shall become due and payable, and this deed shall remain in force and the said party of the second part, or in case of his absence, death, refusal to act in any wise, the then acting sheriff of the county, at the request of the legal holder of the notes, may proceed to sell the property described, or any part thereof, at public vendue to the highest bidder for cash, first giving time, terms and place of sale." In case the sheriff should sell the property and the proceeds should not be sufficient to pay the debt, could a levy be made on other property of B?

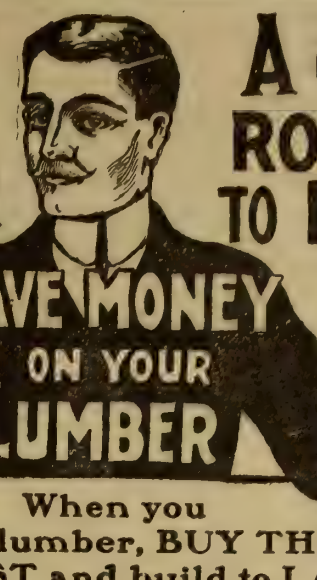
Answer.—The levy could not be made on other property of B without first getting a judgment for the deficiency. You could sue B for such deficiency and obtain a judgment therefor and upon such judgment have an execution levied on B's property.

LIGHTS ON MOTOR VEHICLES.

Mr. Julius Moeller, Creve Coeur, Mo.—There was an accident recently with an automobile which had only one of its side lights burning. The accident occurred after dark. Is there any law in the state of Missouri or in St. Louis county which requires a motor vehicle on the public road to carry a light after dark?

Answer.—The law of Missouri provides that every motor vehicle operated or driven on the public highways of the state, shall during the period from one-half hour after sunset to one-half hour before sunrise, display two lighted lamps on the front and one on the rear of such vehicle, which shall also display a red light, visible from the rear.

A GUARANTEE OF BETTER LUMBER



A FREE ROUND TRIP TO DUBUQUE - SEE WHAT YOU BUY

When you buy lumber, BUY THE BEST and build to LAST. Poor lumber is dear at any price.

OUR GUARANTEE

All our lumber is graded under the Manufacturer's Association rules and every bit is guaranteed to be up to grade or better. Every shipment we make is sent subject to inspection, and if not found up to this guarantee, the shipment may be returned, at our expense, and your money will be refunded.

To get the very **highest quality** and **low cost BOTH, buy from us direct.**

You will get better lumber in every item than any local yard can furnish you; because we make our own lumber and grade it properly; because your order is selected from the most complete assortment in the Middle West, consisting of over 20,000,000 ft. of the best, brightest, new lumber ever sawed. You always get exactly what you want and just what you should have for the work in hand, and everything of **the highest grade.** You will not be obliged to take seconds or substitutes which are supposed to be "just as good."

When you buy from us, you buy direct from the manufacturer at mill prices.

You are your own lumber dealer. All the middlemen's profits go into your own pockets. You secure better lumber and at a saving in price.

If you want a car load, come to Dubuque. We want an opportunity to show you our stock and convince you that we are in position to serve you to advantage. If you buy, *will gladly refund your railroad fare both ways* and you have an opportunity to select your own order personally. *This is a tremendous advantage* to you, but if you cannot come, order by mail. *No matter how small* your order may be, we can save you money and our absolute guarantee of quality insures your satisfaction on every item or you can return it and get your money back.

DUX-BAK ROOFING Is as good as our Lumber.

Sells for 50% to 75% less than other kinds not anywhere near as good. Made of the best of materials. Don't crack, run or peel. Water-proof and fire resisting. Easy to lay.

LOOK AT THESE PRICES.

1 ply $1.15 per sq.	shipping weight	35 lb.
2 ply $1.40 per sq.	" "	45 lb.
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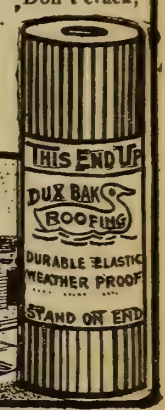
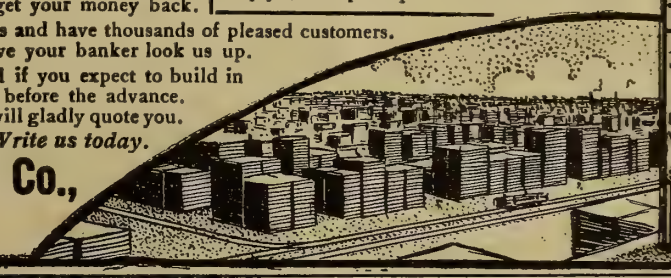


We've been in business nearly thirty years and have thousands of pleased customers. We treat you right and would ask you to have your banker look us up.

Lumber prices are going up and if you expect to build in the near future, it will pay you to order now before the advance. Send us a list of the items you want and we will gladly quote you.

Ask for our price list. Act quickly. Write us today.



Peter J. Seippel Lumber Co.,
204 South Locust Street.
DUBUQUE, IOWA.

NEW LAND

NEW TOWNS ALONG THE NEW

M.O.& G.RY.

IN OKLAHOMA

A million acres in the five northeastern counties of Oklahoma have remained unsettled because the nearest railroad was 10 to 35 miles away. The new northern extension of the Missouri, Oklahoma & Gulf Ry. from Muskogee to Joplin, Mo., 130 miles in length and running for a distance of 90 miles through the rich valley of the Grand River, is now completed through this section and both passenger and freight trains are being operated. New towns are being built and thousands of farms will be put in cultivation this season.

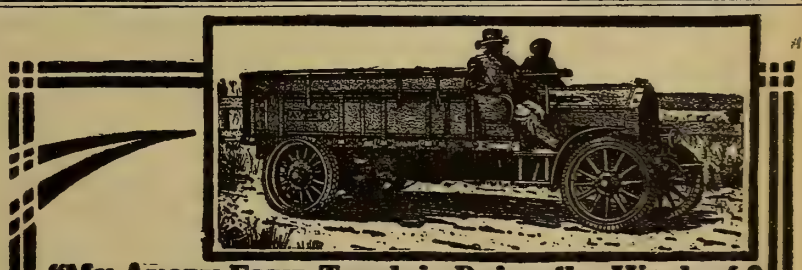
COST Land in Cherokee, Delaware, Mayes, Ottowa and Craig counties is to be had at $35 to $50 per acre which will soon advance in proportion to the older settled counties.

CROPS All kinds of live stock and grain farming is adapted to this section. All grains and grasses, and all live stock which is grown in Iowa, Missouri and Kansas is successfully produced here.

RAINFALL This part of Oklahoma is in the 40-inch rainfall belt and has an abundance of pure water for both household and stock. The climate is mild and pleasant, being just between the cold North and the southern heat.

This railroad has no land to sell. We simply furnish reliable information concerning land and new towns tributary to our road to prospective settlers. This is a proposition you should not overlook. Write today to

H. L. TRABER, Gen. Pas. Agt.,
M. O. & Gulf Railway,
MUSKOGEE, OKLAHOMA



"My Avery Farm Truck is Doing the Work of 3 Teams and 3 Men at Cost of 1 Man and 1 Horse"

That's what one Avery Farm Truck owner writes about the work his Truck is doing. Others are having similar results. No wonder men are selling their horses and getting Avery Farm Trucks to do their hauling and other work. Just think what an Avery Farm Truck does. It hauls 3 tons on its own bed and will also pull a loaded wagon behind. Travels at speeds of from 2 to 12 miles per hour.

Avery Trucks are being used for hauling grain, hogs, sheep, lumber, coal, sand, gravel, crushed rock, milk and cream, fruit and vegetables, flour and other farm and manufactured products. They are **money** and **time savers.**

Have special **cast steel rim wheels** designed particularly for hauling on country roads. **No tire expense** as with rubber tires.

AVERY. Farm Truck

FREE BOOK OF HAULING FACTS

Learn about hauling with an Avery Truck. Tell us what you have to haul, how far, how many horses you use, and find out if an Avery Farm Truck will not do your hauling cheaper and quicker. Write for Avery Truck Book, with hauling facts. It's free. Address,

Avery Company, 1263 Iowa Street, Peoria, Illinois

Also manufacturers of Avery "Light-Weight" Gas and Oil Tractors, Undermounted Steam Engines and "Yellow-Fellow" Separators.

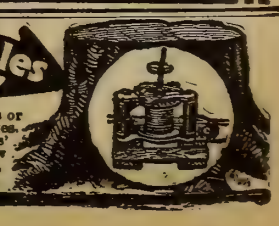
Pull Out The Stumps

With The Hercules

All Steel, Triple Power Stump Puller

Biggest stump pulled in five minutes or less. Clears an acre of land a day. Makes your stump land **money** land. 30 days' free trial—5 year guarantee Get our new book and special low price offer **now.**

Hercules Mfg. Co., 941 21st St., Centerville, Ia.



Keep the Grain Out of Your Straw Pile

All threshing machines are not alike. There is one different from all others. It has a different way of taking the grain out of the straw. **It beats it out** just as you would do by hand with a pitchfork. All other machines depend upon its dropping out.

This one different machine is the Red River Special and you should insist upon having it do your threshing. It will save all your grain and waste none of your time.

It saves the Farmer's Thresh Bill.

It has the Big Cylinder, the "Man Behind the Gun," the patented Grate and Check Plate, the greatest separating devices ever built.

The Big Cylinder drives the intermingled straw, chaff and grain against the separating grate, **beating** the grain through where the check plate catches it and delivers it to the grain pan and mill.

Ninety-five per cent of the grain is taken out right there.

The straw goes over upon the shakers which hold it and **beat** it until all the grain is **beaten out.**

In all other kinds the straw is hurried out of the machine and the grain is expected to drop out.

It doesn't. Thousands of green straw stacks every year loudly say it doesn't.

The Red River Special saves all this. Insist upon its doing your work this year.

It will save your thresh bill. Write for proof.

To Whom It May Concern:

I. J. Knudson, farmer, of McHenry County, North Dakota, do depose and say that during the summer of 1908 I bought of Nichols & Shepard Company a threshing outfit, consisting of one 20-horse power, double cylinder traction engine and one 32x52 Red River Special Separator with wind stacker, self-feeder and weigher attached.

That on or about August 23, 1908, I started this outfit near a stack of old straw that had been threshed in 1907 by a———separator, and to stretch the belts on the new machine I caused a small load of old straw from the stack in question to be run through the new machine and was surprised to get over sixteen bushels of oats from this load of straw.

I afterward threshed out the balance of this stack and got 347 bushels of grain.

(Signed) JAMES KNUDSON.

Subscribed and sworn to before me, a Notary Public, in and for McHenry County, North Dakota, this 6th day of Feb., 1909.

[Seal] J. EDGAR WAGAR, Notary Public.

My commission expires March 27, 1914.

NICHOLS & SHEPARD COMPANY, Battle Creek, Michigan

Builders of Threshing Machinery, Engines and Oil-Gas Tractors

"Can't-Sag" Gates Cost Less Last 5 Times as Long

I'll save you big money on your farm gates. My new catalog quotes such astonishingly low prices on CAN'T-SAG GATES AND GATE STEELS that you simply can't afford to build another clumsy, all wood gate. My FREIGHT PAID PRICES are half what others charge for short-lived steel, wire and gas pipe gates.

30 Days' Free Trial—5 Year Guarantee

I give 30 days free trial and a signed 5-year guarantee. Send for my big free Gate Catalog at once—see why Can't-Sag Gates outsell and outlast all others. Read what other farmers and stockmen say about them. When you get this book you can either select complete CAN'T-SAG GATES, Ready to Hang, any height, any length—painted or unpainted or if you prefer you can order just the GATE STEELS [which includes everything but the boards]. With these you can build your own Gates in 30 minutes and SAVE BIG MONEY.

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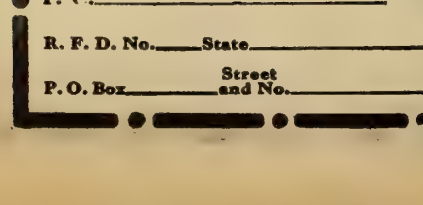
(6) **Send for FREE Gate Catalog Today**



Note These Special Features

Each board double bolted between 4 pairs of ANGLE STEEL uprights and 6 TRIANGULAR TRUSS BRACES. Patent reenforced SELF-LOCKING HINGE. Gate swings easily both ways—always hangs square and plumb. Elevating Attachment (furnished at slight additional cost) permits gates to be raised over deep snow or allows small stock to pass under. Write for Free Catalog and FREIGHT PREPAID OFFER TODAY. Address

A. V. Rowe, Pres. Rowe Mfg. Co., 496 Adams St., Galesburg, Ill.

STATE AID FOR GOOD ROADS.

(Continued from page 3.)

the "show me" state. The residents of Pettis county (Sedalia, county seat) built sixty-four miles of rock macadam road last summer with a $200,000 special road district bond issue, the cost being from $3,300 to $3,600 per mile, with the rock adjacent to the road. At this modest figure, they secured three miles of good highway for every one mile of concrete pavement laid by the farmers of Wayne county, Michigan, last summer, at a cost of $10,000 a mile. The durability of the concrete pavement is looked upon by the Michigan farmers as justification for their expenditure and as giving them the advantage over the Missouri macadam road in the long run.

Not to be outdone by its neighbors, Wisconsin is providing for funds by a law stipulating that if any town votes any sum of money up to $2,000, either at a regular or a special election, the county board of supervisors must appropriate an equal amount, a rock or gravel road to be built within the ensuing year, under direction of the county highway commissioner. This insures an annual fund of $4,000 for each town, which in the aggregate means a handsome fund annually available for the important task of bringing town and country closer together through the medium of improved highways.

Good roads can no more be built by statistics than by hot air and printer's ink, but figures are of value in showing the extent of the campaign for permanent roads built by state aid. The secretary of the Lakes-to-the-gulf Highway Association has collected figures showing that nine states are spending each a minimum of $1,000,000 a year on road improvements (California, Connecticut, New York, Massachusetts, Ohio, Iowa, Oregon, Pennsylvania and Washington), while from $500,000 to $1,000,000 a year is being spent by four states: Maine, Maryland, Oklahoma and New Jersey. These figures do not include various sums raised by counties in states where the burden of highway development is still left to the individual counties. In Texas, for instance, $10,650,000 was available for road work, each county levying an ad valorem tax for road construction and maintenance. In this connection it is interesting to note the various means whereby road funds are obtained. There are fourteen states in which all the money for highway improvements comes from the general tax fund. In four states, this is supplemented by the income from automobile licenses. In nine states the public road fund depends solely on bond issues. A few states have a special and continuous road tax and others look chiefly to a poll tax.

FAVORS DEEP PLOWING.

To the Editor of The Homestead:

I have had a good deal of experience with deep plowing and in my opinion it is the very thing for the land. I prefer to break the land or turn it about six inches deep and then run a subsoil plow six or eight inches deep in the same furrow, for if you turn your ground deep you will fail to make much corn the first year, but will have a fine crop of stalks. It is quite different with small grains and deep plowing for wheat or oats or clover is all right. Deep plowing for corn land is all right if plowed ten or twelve inches in the early fall, but I perfer going down gradually, say two inches each year until the depth of twelve or fourteen inches is reached. I find that the land will not wash so badly.

In the year '54, the driest year that I ever experienced, I was living in Calloway county, Kentucky. We had subsoiled our land that spring and we raised a pretty fair crop of corn while our neighbors' crops failed completely. I did the same thing in the year '74 and had corn for sale while my neighbors had to buy.

J. R. Harding.

Weakley county, Tenn.

Sears, Roebuck and Co's Special Vehicle Book is Full of Bargains Like This!

Over 49,000 of our Wonderful Metal Seat Buggies now in use. ***This is our new 1913 model.*** Everybody can see the value; purchasers figure their savings from $25.00 to $35.00. No one can ask for greater beauty or comfort. No one builds better quality. No matter what kind of a vehicle you want, a buggy, surrey, spring wagon, runabout, or farm wagon, you will find it in the Sears-Roebuck Special Vehicle Book, in a style that will please you, at a price that will save you many dollars. Why not investigate? Let us send you this book. It is free. You will find in this catalog the most complete line of vehicles ever assembled. You will find in our book a

Top Buggy for $30.95, Runabout for $24.90, Canopy Top Surrey for $52.80, Farm Wagon for $49.60, and Over a Hundred Other Bargains.

You should have our wonderful comparison card which we send with this 1913 Catalog. No matter where you purchase you will find this card will save you $25.00.

$59.90 FOR THIS

Triple Panel Auto Seat Buggy You save at least $25.00

Up to the minute in style and finish. Materials and construction that make it easy for us to guarantee absolute satisfaction during the entire life of the buggy. Metal Auto Seat, genuine leather upholstering, highest type body construction. Triple braced shafts, best wheels made, full wrought fifth wheel, real long distance self oiling axle, new style auto skeleton top. Warehouses in thirteen big cities throughout the country carry a supply of these buggies and we make shipment from the city nearest you. This insures prompt service and low freight charges.

Our Vehicle Guarantee is a most unusual one and guarantees you absolute satisfaction for the life of the vehicle. We ship on *Trial* with the privilege of returning the vehicle at any time if dissatisfied for *any* reason.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—Please send your Special 1913 Vehicle Catalog No. 65125 to the undersigned, postpaid.

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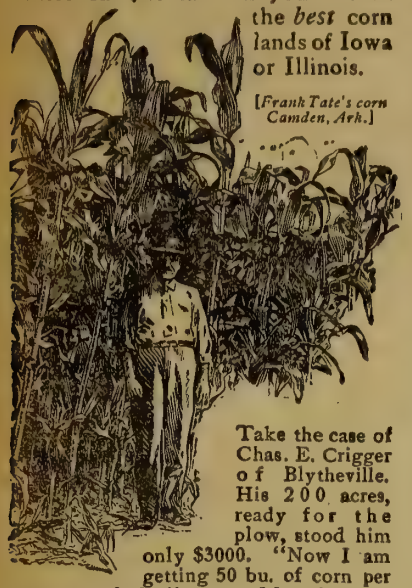
Mail the Coupon Now or send us a postal. You will find many illustrations of the different styles in colors. Every vehicle is described in detail, nothing is left to your imagination. You are as safe in ordering from the Sears-Roebuck Book as if the vehicle stood before you. Mail us the coupon or just a postal. Simply say, "Send Vehicle Book, No. 65125

Sears, Roebuck and Co., Chicago, Ill.

Mr. Jeffries got 93 bu. of corn per acre

on a tract of land near Clarendon, Ark. Of course, that's some yield; but taking seasons *as they come*, you could raise as much corn down there on $20 land as you can on the *best* corn lands of Iowa or Illinois.



[*Frank Tate's corn Camden, Ark.*]

Take the case of Chas. E. Crigger of Blytheville. His 200 acres, ready for the plow, stood him only $3000. "Now I am getting 50 bu. of corn per acre regularly," says Mr. Crigger. Last year my crops brought me $10,400." You could get *twice* as much profit from land that cost *half* as much — along the

Cotton Belt Route in Arkansas and Texas

— besides cutting your winter expenses *'way down*, on account of the milder climate.

Frank Tate, near Camden, Ark., told me he made 63 bu. of corn per acre. Mr. Tilson, who owns a Red River Valley farm in East Texas, says his section has the irrigated lands northwest beat a mile for alfalfa. He is getting $50 per acre from alfalfa on his *low*-priced land—with no need for irrigation.

These lands won't stay cheap always. They have already doubled in value since 1905; but even this year you can buy at $12 to $25 per acre, as good land there as you are farming now. And you'd have *every* advantage of schools, churches, close neighbors, good local markets, phones, rural free delivery, etc. This proposition deserves serious thought.

On the 1st and 8rd Tuesdays of each month there are low round trip excursions to Arkansas and Texas via Cotton Belt Route, allowing 25 days' time and free stopovers. Go on the *next* one.

Get our free books!

Written by a farm man who knows farming from A to Z. He traveled over thousands of miles in these sections to learn where the *real* farm opportunities were—the kind he knew *you* would grasp if you saw them. He tells you, in plain words, all about them. 100 pages and farm pictures. Send a postal today for your *free* copies.

E. W. LaBEAUME
General Passenger Agent
1454 Pierce Bldg., St. Louis

COTTON BELT ROUTE

BIGGEST PROFITS

are made by farmers who grind feed. Get the best mill. The Corn Belt grinds **soft** and hard corn—and small grain **fastest, best and cheapest.** No clogging. **Ground burrs with a plow polish do it.** Does not burn the feed. The

"CORN BELT" Mill

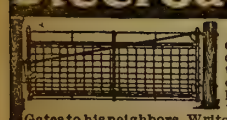
has revolving knives that **chop** corn and cob and burrs that **grind.** Vertical feed means even distribution. Lathe-centered burrs mean even grinding. Sent on

20 DAYS FREE TRIAL

Burrs are easily changed in 3 minutes. Send for free book.

Spartan Mfg. Co.,
98 Main St., Pontiac, Illinois

Do You Want This Steel Gate FREE



One farmer in each community can get one for helping us introduce Tro Jan Gates to his neighbors. Write for particulars.

The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 2 years' trial at our special direct-to-you factory price of $4.95.

W. K. VOORHEES, Mgr. Standard Mfg. Co.
300 Main St. Cedar Falls, Iowa

AN EXPERIENCE WITH A FARM TRUCK.

I NOTE your article in your paper recently under the title "Farm Tractors Increasing in Popularity." You ask that those who have used tractors submit their experience.

Relative to the machine I am using would say it is a forty-five horsepower farm truck, gasoline motor which has four cylinders, has forty-one-inch wheels with a six-inch face. The rims of same are cast malleable filled with two-inch hard wood plugs. In addition to this there are two eight-inch extension rims for rear wheels which have spades in them that work automatically, that is, when the machine passes over soft or muddy soil and the drivers begin to slip, these spades in the automatic rims open and form a spud to pull against. This machine has a sliding selective type transmission, three speeds forward and reverse. The speed is from two to fifteen miles per hour. Has hardwood platform, is fifty-two inches wide by 123 inches long, and I have a box for same which is the same size of platform and thirty inches deep. This has a capacity of better than 100 bushels of wheat. This truck is rated as a three-ton machine, though I have had as much as 7,500 pounds of wheat in one load and know it will carry more. In addition to this it would pull another two tons in a wagon hooked on behind.

At threshing time I had to have some coal, so I drove my machine to town loaded on two and one-half tons and made the trip home which is three and one-half miles in twenty-five minutes. With a team this would have meant at least two loads and at least two and one-half hours' time, that is, two and one-half hours from town home. As to plowing would say horses are not in it with the truck. I use three fourteen-inch bottom plows and pull same in low gear and can plow ten acres per day easy. However, I have done most all of my plowing using the intermediate gear and plowed better than twelve acres per day. Our soil is a sort of a black sandy loam. It takes about two gallons of gasoline per acre. When the ground is extra hard breaking in the fall, as sometimes occurs, it requires a little more gasoline per acre say twenty-five gallons for ten acres. But under ordinary conditions about two gallons per acre is sufficient. I also use this machine for preparing wheat or corn ground. For wheat I hook on a fourteen-disk pulverizer and ten-foot peg tooth harrow, pull both at the same time and have prepared as much as thirty acres per day. At this work I run on intermediate gear and use about twenty gallons of gasoline per thirty acres. At harvest time I pull a seven-foot cut binder, but owing to the fact I have experienced so much trouble with my binder, I am unable to say just what it would do in this line. But I do know that the flies or heat does not affect its work.

This machine weighs about 6,300 pounds equipped with rims and all ready for field work. We have about 160 acres of tillable land, growing about one-half wheat and one-half corn. In addition to this truck we keep six head of horses, to plow corn, to use at threshing time, etc. However, if I did not have the truck would have to keep from eight to ten head of horses.

It is estimated that one of these trucks should last from six to ten years according to how it is handled, kept in repair and oiled. Of course, the care has all to do with any kind of machinery. Some care for and use a piece of machinery four and five times as long as others.

For the quarter section and up to 200 acres we believe this is the best style of farm power to buy, as it will not only do the majority of field work on that sized farm, but the hauling capacity is also a great factor in delivering grain, produce and stock. And besides this the machine can be used for stationary work on the belt such as running corn sheller, small grain thresher; feed grinder, pump water and in fact has plenty of power for all farm work. G. S. Pine.

Happy Days, Fellows!

A pretty girl, a sleigh, a smooth road, and a pipeful of Velvet! Can you think of a better combination than that?

But whether you have the girl and sleigh or not—there's lots and lots of pleasure in a big, red tin of Velvet. It's so mild and rich and fragrant that you can't help but enjoy it. And snow, rain or shine—winter or summer—you can always have this delightfully smooth tobacco.

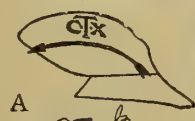
Don't go without it. Ask your storekeeper for Velvet today. You want the best.

Liggett & Myers Tobacco Co.

Full-size 2-ounce Tins
10c

Also in one-pound glass humidor jars.

Take Your Choice



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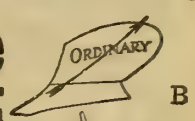


B

between a Rock Island "C.T.X." Universal and the commonplace kind of plow. They cost about the same. But *remember*, the "C.T.X." Universal means "fat" crops, while the common plow is apt to mean "*skinny*" crops.

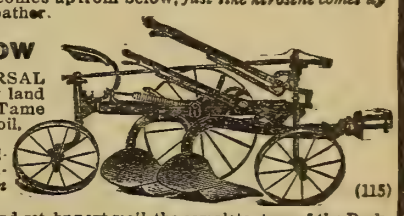
Beware of Air Spaces

Those innocent-looking air spaces left between topsoil and subsoil when plowing have been costing the American farmer MORE THAN ALL OBNOXIOUS WEEDS, BUGS, PESTS, SCALES AND PARASITES COMBINED. Air spaces completely *cut off* the water supply from below and cause crops to start withering and drying up the minute a hot, dry spell comes.

Get a plow that *doesn't LEAVE any air spaces*—the Rock Island "C.T.X." Universal.

Note the peculiar, corkscrew shape of this plow *bottom*. (Picture A.) The arrow shows how dirt travels—backward and *DOWNWARD*, not backward and UPWARD as in the ordinary plow. (Picture B.) The Rock Island Universal doesn't spill any dirt into the furrow; turns the slice clear over, without crimping. Lays it flat and smooth, at the same time pulverizing it thoroughly and burying all trash. Topsoil lies right against subsoil—doesn't leave fatal air spaces. Water comes up from below, *just like kerosene comes up your lamp wick*. It feeds the crop in dry weather.

A Real UNIVERSAL Plow



And don't forget, *this plow* is a UNIVERSAL plow—does perfect work in *any* soil on any land that's plowable. It walks right through Tame Sod, Heavy Clay, Sandy Loam, Mixed Soil, Stubble Fields, Old Cornfields, etc.

No wonder the Rock Island "C.T.X." Universal has become the sensation of the farming world. *Yet it costs practically no more than the average plow!*

(115)

WRITE! Send your name on a postal today and get, by next mail, the complete story of the Rock Island "C.T.X." Universal. All about how it's made, pictures of its different parts, etc. We will also send you the name of your home merchant who sells Rock Island Implements, so you can go see this plow and judge it for yourself. Just write these words on your postal, Am interested in plows. Then sign your name and address and send the card to

Rock Island Plow Co.
188 Second Avenue, Rock Island, Ill.

Rock Island (C.T.X.) Universal Plow

5 Year Guaranteed Buggies At 1/2 Retail Price

FREE CATALOG

You take no risk when you buy a buggy from us. We guarantee it to please you, and to be a bigger value for your money than you can get anywhere else, or you needn't keep it. *Reference;* S. Ill. Natl. Bank, East St. Louis, Ill.

Mutual Buggies, Surreys, Wagons, etc., are the highest quality, handsomest, most stylish vehicles built. **The only line guaranteed 5 years.** We sell direct at wholesale prices—and save you $25.00 to $100.00. **Write for catalog and delivered prices.**

MUTUAL HARNESS at $5.85 per set up: double $14.10 up: work harness $19. up, all genuine leather; highest quality; **Fully Guaranteed** 25 to 50% less than retail. Catalog Free. Write today.

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MUTUAL CARRIAGE & HARNESS MFG. CO., Station 11B E. St. Louis, Ill.
or Station 11B 132 N. Wabash Ave., Chicago, Ill.

A Corn Grader—A Grain and Grass Seed Cleaner

Two Machines in One.

It's exactly what you get in the Newton grader and cleaner. It grades corn in a most satisfactory way. Cleans and grades all kinds of grass and field seeds. Hundreds in use on the farms of successful farmers.

The Newton

Separates Oats from Wheat.

No other grader on the market will give you better work than the Newton. Few will come anyways near doing the work it will do.

Ungraded Seed Doubly Unprofitable.

The danger in sowing weak, shriveled grains does not lie alone in the fact that they do not grow, but by leaving vacant space you allow weeds to get a start which injure neighboring stalks. With the Newton grader you take out the light and chaffy grain, leaving only the plump, well-matured grain for seed. Grading your grain this year should save the price of our grader on the larger yield of the season's crop, and the grader will last many years. Don't take our word for it. Ask the college experts and they will tell you we are right.

Get the Newton Catalog Write us today and get circular telling all about this simple, practical, big-capacity corn grader and grain grader and cleaner—two machines in one. It tells all about its many points of advantage over other machines.

BERGMAN MFG. CO., - NEWTON, IOWA.

Seed 10 Acres an Hour With This Seeder—It's 1/2 Cheaper

Than Best 11-ft. Broadcast Seeder Made

DON'T make a *poor* investment by buying an 11-ft. Broadcast Seeder when you can get the Peoria *Double* Seeder for just *one-half* the money, and you can actually do *THREE TIMES* as much work in the same length of time. Conditions of weather make no difference. The "Peoria" works just as well—wind or no wind. The

Peoria Double Seeder

is absolutely guaranteed to do better work than any 11-ft Broadcast Seeder ever made. It sows every variety of small grain and grass seed, uniformly distributing it. No thin or thick streaks are left behind. The secret of the Peoria Double Seeder is in the *helical* gear which runs with less noise than most friction drive seeders. It will last longer out of doors than any 11-ft. seeder stored. Feed is positive, no clogging, no valves or inside arrangement to bother—casts oats over twelve rows—one hundred acres can be sown in ten hours. With seeder you buy we give you

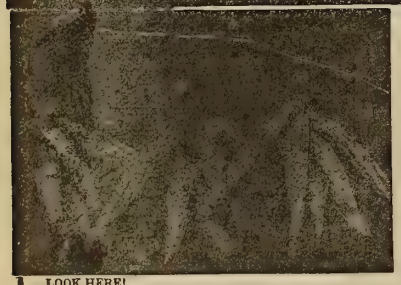
A Perfect Force Feed Grass Seed Attachment Absolutely FREE

Write Now for Free Catalog

This book alone is worth many dollars to you—it is interesting and very instructive. So get *all* facts today. Don't put it off. Let us *prove* to you that this Peoria Double Seeder is the biggest money-making seeder you can buy—don't forget *that!*

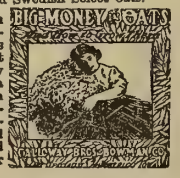
Peoria Drill & Seeder Co.
2435 N. Perry St. Peoria, Illinois

BIG MONEY IN OATS AND HOW TO GROW THEM



THAT IS THE TITLE OF OUR NEW **FREE BOOK**

which we send you for the asking, together with a free sample of our pure Canadian Grown Regenerated Swedish Select Oats.



This book was written by William Galloway, Professor Bowman, and other seed experts. It contains priceless information—worth real money—about how to make big money in oats; how to make a seed bed; how to start a seed patch, how to make oats stand on rich ground and how to grow a bumper crop of oats. It is profusely illustrated by photos from actual life, and contains besides facts, figures and opinions as given by farmers all over the country.

Now remember, this book is free for the asking, and we will send it to you together with a free sample of the oats, or better still, enclose ten cents to cover cost of packing and postage, and we will send you a **Big** sample packet, or a **Triple** Size for 25c, and for 50c, a packet **three times the size of the 25c packet,** and what is more, the empty packets will be accepted the same as cash in part payment on any future orders you send in.

LOOK HERE!
Three kernels in a pod, from an actual photograph as grown on our big Canadian Seed Oats farm.

You can raise 75 to 140 bushels to the acre with our seed. Imported direct from Canada. Extra fine. Send for free sample. It speaks for itself. Our customers who bought from us last year raised from 75 to 140 bushels to the acre against one-eighth to one-half as much from their old seed, which proves our statement that farmers need a change of seed in this country.

We specialize on **extra fine Seed Oats** on our big Canadian Farm—new, clean land—and grow the **Genuine Regenerated Swedish Select Oats** which has **broken all records.** Specially bred to suit climatic and soil conditions in the U. S. Matures from 12 to 15 days earlier than other kinds. Extra large white berry. Thin husk. Stiff straw. Tremendous yielder. Rich in protein, and just the oat you have been looking for.

Why not start a seed patch on your farm this year? It has paid others big. It will pay you.

Write us early. The demand for our seed is tremendous. Last year we had to return orders we could not fill.

Write early. Demand tremendous. Supply limited.

Feed Your Oats to the Horses or Hogs, or Sell It

You can afford to do it when you stop to figure up the net results between our seed and ordinary seed. Which is cheaper—**Genuine imported Regenerated Swedish Select Oats** that germinate nearly 100 per cent—every oat sprouting—Fresh, Hardy, Full of **Life and Vitality**—or oats that are half hulls full of weaklings, that plainly prove they are inferior and run out? Our thoroughbred Imported Canadian oats cost a little more than common seed at the start, but if you paid twice the price and received common seed for nothing, our oats would be cheaper and bring you the most profits. It's **net results** that count.

J. E. Andrews, Dassel, Minn., writes: "Yielded 105 bu. to acre." Oscar Kling, Alamosa, Colo. writes, "Yielded 141 bu. to acre." H. Hendrick, Roanoke, Ill., writes, "Got 95 bu. from one acre." A. J. Barber, Clinton, N Y., writes, "Galloway, you are right. Last spring I bought some seed oats of you. Just threshed. Yielded 80 bu. per acre.

GALLOWAY BROS.-BOWMAN CO., Seed Oats Specialists Box 102 WATERLOO, IOWA

SEED CORN

ST. CHARLES RED COB WHITE CORN THE BEST CORN FOR ENSILAGE

Grown only in St. Charles county, Mo.; buy it direct and get the genuine article. Write for prices.

LOUIS F. MARTEN, - St. Charles, Mo.

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

PREPARE TO SPRAY THE FRUIT.

To the Editor of The Homestead:

Every grower of fruit whether he be orchardist or farmer is coming to realize that perfect fruit is not the result of chance, but of careful culture and spraying. If one will have fruit that looks and keeps well, he must keep it free from worms, scab and rot, otherwise he cannot expect large profit. Spraying has proven the best remedy for all injurious diseases and a destruction to insects.

There are a number of useful sprays for insects and injurious diseases. A limewater wash may be made with twenty pounds of quick lime, fifteen pounds of sulphur and fifty gallons of water. Place over a hot fire a twenty or thirty-gallon kettle. Pour ten gallons of water into this and when water is slightly warm pour in the lime. Add some water now and then to keep the slacking lime from sputtering. While lime is slaking dissolve the sulphur in enough water to make a kind of paste, and when the lime has become pasty pour in the sulphur and boil and stir constantly for forty minutes or until the mixture has become a dark red. Now take from the fire and strain from a fine strainer and add fifty gallons of water. Stir thoroughly until it will do for the spray pump. Use at once, for if allowed to stand it will lose its strength. For a summer wash this mixture must be dilated one-tenth.

Bordeaux mixture is made of copper sulphate (bluestone), five pounds; quick lime, five pounds, and fifty gallons of water. The copper sulphate should be put into a sack and suspended in a barrel of water near the top. To form a stock solution 100 pounds of copper sulphate should be dissolved in fifty gallons of water. Thus one gallon of water would contain two pounds of copper sulphate.

To make a stock solution of lime, slack a given weight of lime in a trough or box. Slake slowly with the least amount of water. Add enough water to make a putty mass, then cover with water to exclude the air. Now it can be used as needed. As lime has been weighed it will be easy to determine the amount to use. Take out the desired amount of lime, mix with twenty-five gallons of water. Likewise mix the desired amount of copper sulphate in twenty-five gallons of water. Then pour the lime mixture through a cloth into the copper sulphate mixture and churn together well and use immediately.

A kerosene emulsion may be made from a half pound of hard soap, two gallons of kerosene and thirty gallons of water. Shave the soap fine and dissolve it in one gallon of water by boiling. After removing from the fire add the kerosene and mix thoroughly and pour in the rest of the water.

An arsenate lead mixture may be made by adding four pounds of lead arsenate to 100 gallons of lime sulphur mixture, summer strength, or to a like number of gallons of the Bordeaux mixture.

The lime sulphur wash should be used for scale insects when leaves are off the trees. Use the summer strength when the buds first begin to open and throughout the summer and fall. The summer solution of lime sulphur and arsenate of lead may be used for insects and plant diseases. The bordeaux mixture is good for apple scab, various rusts and fungus diseases. For apple blotch and black rot on grapes the bordeaux is preferable to the lime sulphur mixture. It has been discovered that the lime sulphur will renew the bark on old trees and thereby increase the vigor of such trees.

The kerosene emulsion is death to the woolly aphis on young trees and plant lice on melon vines. During the winter the lime sulphur, winter strength, should be used in spraying for the San Jose scale and the winter stages of plant diseases. When the blossoms begin to fall the bordeaux or lime sulphur mixture with arsenate of lead should be used to kill the apple worm of the coddling moth and at the same time the canker worm. This puts the poison into the rose

SUPERIOR

GRAIN DRILLS

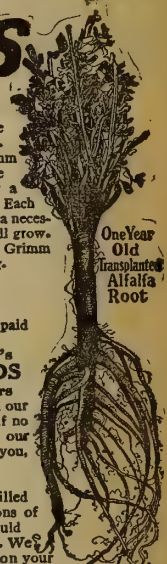
WARRANTY—Castings replaced FREE any time—in one year or 20 years if shown to be defective. Disc Bearings replaced FREE if they ever wear out. Every Drill guaranteed to be and do ALL WE CLAIM.

Ask your local dealer to show you the OSCILLATING DRAW BARS on a Superior Single Disc Drill—the exclusive patented device that gives such great clearance—that allows the discs to sow around obstructions, not over them. **Send for the Superior Catalogue.** Go to your local dealer and insist on seeing the drill that puts the seed in the ground—that "Drills the grain to grow again." The "Superior Feed sows every seed."

Superior Drills can be had in any size from one-horse up in plain grain and combined grain and fertilizer, Single Disc, Double Disc, Hoe and Shoe.

THE AMERICAN SEEDING MACHINE CO.
INCORPORATED
SPRINGFIELD, OHIO, U.S.A.

Alfalfa Roots



The New Method of Establishing Alfalfa

We are first to offer a sure method of Alfalfa propagation. Our hardy one-year-old Grimm Alfalfa roots have survived the most critical period by enduring a severe winter at a high altitude. Each root has clinging to it, the bacteria necessary for growth. Every plant will grow.

PRICES Hardy, one-year-old Grimm Alfalfa Roots, including packing.

Per 100 - $1.25
Per 500 - 5.50
Per 1000 - 10.00

Express or freight charges to be paid by purchasers.

Northrup, King, & Co.'s STERLING SEEDS

Sold by 15,000 Dealers

Merchants in all localities sell our garden, grass and field seeds. If no dealer in your community sells our seeds, and will not get them for you, send your order to us.

Our 1913 Catalogue

This book contains 144 pages filled with illustrations and descriptions of seed best worth growing. It should be in the hands of every planter. We send it, without obligation on your part, to any address, upon request.

NORTHRUP, KING & CO., Seedsmen
Minneapolis, Minn.

BUY NEW PEPSEECO Brand

"CREAM of the CROP"

CLOVER SEED

Go to your dealer—insist on PURE Clover Seed—take no chances with weed pests or of a poor crop. Buy seed you know you can depend on.

"PEPSEECO" BRAND

Alfalfa, Millet, Cane, Clover Timothy and Kentucky Blue Grass

are sold by 4,000 dealers—from Maine to California. "Pepseeco" Brand Seeds are absolutely pure, the finest grown, the Cream of the Crop. You get bigger yields and bigger returns. **Cost you no more than other kinds.** Insist on having "Pepseeco" Brand Seeds. **Prove their worth.** If your dealer cannot supply you, write us.

FREE PEPPARD BOOK containing valuable information about Alfalfa, Clover and other seeds. Illustrated. Also Weed Bulletin. Sent free on request. Write for them today.

J. G. PEPPARD SEED CO.
1126 West 8th Street, Kansas City, Mo.

Pure Bred Seed Corn

Picked in September, sure growing, big yielding, Reid's Yellow Dent, Johnson County White, Leaming, Improved Silvermine, and Bloody Butcher, grown by us on Sunnyside Seed Farm which we own and operate ourselves. Send today for the free corn book giving full particulars, prices, etc.

McGREER BROS., COBURG, IOWA.

end of the young apple from which the apple worm gets its first meal and on the leaves of the tree where the canker worm feeds.

It is a good plan to spray every five or six weeks for apple scab, apple blotch, etc. By the liberal use of these spraying materials the orchard should be kept free from disease and the ravages of insects and if season is favorable bring forth fruit to perfection. W. D. Neale.

ONIONS A PROFITABLE CROP.

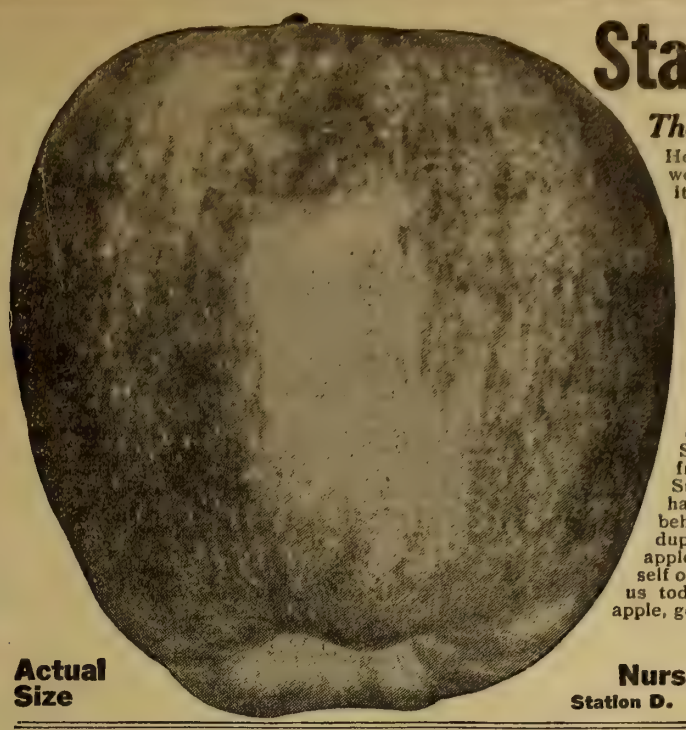
To the Editor of The Homestead:

I find onions a very profitable crop to cultivate if one can spare the time or can procure the proper help. The greatest cost of onion culture is the great amount of labor connected with it. This labor is not, however, of an overtaxing nature and can be done by women and children. I know a girl who cleared $200 on a half acre of land while following her doctor's orders to be outdoors as much as possible. Under the very best conditions onions have been known to yield as high as 1,000 bushels to the acre and the market can be depended upon since this country has to import a large quantity every year. The farmer who will not give his wife or children a half acre upon which to grow a special crop of this kind is hard hearted indeed. Yet it is these little things which the children can call their own which give them an interest in farm life and are a forceful and important element in solving the problem of keeping them on the farm. Besides they acquire a great deal of practical knowledge in this way.

I prefer the transplanting method of onion growing, as I have had by far better results with this method than when seeds are planted direct in the field. Onion seeds are very slow in starting and the plants grow very slowly at first. If planted in the field there is much difficulty in keeping the weeds down until the onions are large enough to mark the row and thinning out the plants after they get started is just as tedious as transplanting the plants. When seeds are started in the field often a dry spell comes before the bulbs have completed their growth and an inferior crop results. With the transplanting method the plants can be set out as soon as the soil is ready for them and are ready to start immediate bulb growth. Moisture is the most essential element in onion culture and by this method the bulbs can get their growth during the period of spring moisture. Maturing at least six weeks before, those started in the field they safely make their growth before the dry period of the year can do much damage.

For best results with onions the soil should be a rich mulch with humus enough to hold plenty of moisture and make the soil friable and of good texture. I prefer to plow in the fall and allow to lie in the rough over winter. The soil is well fertilized before plowing. The action of the frost upon the soil is very helpful in procuring the proper bed. The bed can be prepared earlier and better than when plowed in the spring. In the spring no pains is spared in preparing the bed. It is harrowed and worked until the surface for a depth of several inches is as fine and smooth as for a flower bed. The condition of the soil means much and if it is good goes a long way toward producing large and uniform bulbs.

The seeds are planted thinly in boxes which are kept in a warm well-lighted attic, during the latter part of February or early March. They are kept well watered and if they come up too thickly should be thinned. The seeds may be sown in hotbeds also. As the time for transplanting nears the plants are hardened by more exposure, ventilation and withholding water. They are then about the size of a lead pencil and tops and roots are trimmed before planting in the field. This is some time during April and the transplanting means quite a little labor. Much time can be saved and much labor averted in laying out the plot by running a cart wheel, into which, after removing the tire, wooden pegs three inches long and four inches apart have been placed along the line. The line in-


Actual Size

Stark Delicious Apple

The Most Talked About Fruit in the World!

Here's an *actual* size Stark Delicious—the finest apple in the world. The finest *fruit* in the world! For profits you can't touch it with *two* of any other variety. "The Ginter Co., of Boston, are getting 20 cents a-piece for Stark Delicious," says A. D. Birchard, Suffolk County, Mass. "Have received as high as $5 50 per box for Stark Delicious apples," says M E. Stewart, Chelan County, Wash. Are you getting anything like that for *YOUR* apples?

FREE BOOKS! WRITE TODAY Your orchard soil will grow handsome Stark Delicious apples. Your orchard can be made over from a moderate producer to one of the biggest paying places in the country. Your apple profits can be doubled and even trebled with Stark Delicious apple tree results—but, remember, it is only a Stark Brothers tree that can make and break bumper crop records. It's only the Stark Delicious apple tree that can produce this, the best of all fruit, and there is none other but a Stark tree with this name. Stark Delicious is an exclusive Stark Brothers apple tree—it has 100 years of expert apple tree propagation and experiment behind it—and no other nursery in the world will ever be able to duplicate Stark Delicious trees. You can plant Stark Delicious apple trees in your orchard, however—and you're cheating yourself out of your full share of orchard profits unless you do! Write us today, learn more about the Stark Delicious apple, get our free books

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STARK TREES

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Home Grown

Direct to you from the Hyde Farm, with all the middlemen's profits cut out. No old seed or elevator stock, but all fresh, strong and of guaranteed germination.

REID'S YELLOW DENT
BOONE COUNTY WHITE

our leading varieties of corn. We also have fancy grades of

Clovers, Timothy, Alfalfa, Cow Peas, Soy Beans, Rape and Grass Seed.

These are exceptionally good and guaranteed by us.

FREE SAMPLES Write today for our FREE BOOK, telling about "Hyde Farm" Home Grown Seeds, also free samples.

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PURE SEEDS

THAT GROW — Genuine — Unadulterated

No matter how valuable your land; no matter how much you hoe, weed and dig; no matter how much the sun shines nor how much it rains; nor how much you irrigate your land. Your efforts are all in vain and your money lost if you get cheap seed. Why take a chance—even if you get your seed for nothing—of sowing stale, low germination test, inferior seed when you can get **Absolutely Pure, Genuine** and **Unadulterated Seed** from us. We sell only one quality—the best; no second or third qualities.

50c COLLECTION FOR 10c

All packed in big envelope which is good as part payment on future orders. Good for 25c on orders of $1.00 or more. Collection contains one regular 10c packet each of Champion Pickle Cucumbers, Matchless Tomatoes, Prize Head Lettuce, Southport Globe Onions, and large G-B Mixed Sweet Peas. Nothing like equal value ever offered before.

BIG, NEW, ORIGINAL AND DIFFERENT SEED BOOK FREE

Shows largest collection of pure garden, flower and field seeds ever offered and at a big saving in money to you. Send for it right now and inclose with your letter 10c for the big 50c collection, described above. Remember catalog is **free.**

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P. O. Box 106 Waterloo, Iowa

Gigantic Tomato SEEDS FREE

Here is the king of all Tomatoes, largest and most productive, fruit often weighing 3 to 5 lbs., each, and 100 to 150 lbs. have been grown on one plant, very smooth, few seeds, solid all through, ripens early, being a handsome red color. A few plants will produce more Tomatoes than any family can use.

OUR SPECIAL OFFER

We want every person who uses seeds to see our 1913 Seed Book and try this Gigantic Tomato and we will send a sample packet for trial, with Seed Book Free. This book is full of new Vegetables, Fruits and Flowers.

Send your address plainly written on Postal today.
Fairview Seed Farms, Lock Box 122, Syracuse, N. Y.

200 Plants $1.00

100 of that choice new variety **Senator Dunlap** and 100 of two other choice varieties, and printed instructions with each order on how to grow them.

J. L. TODD & CO.
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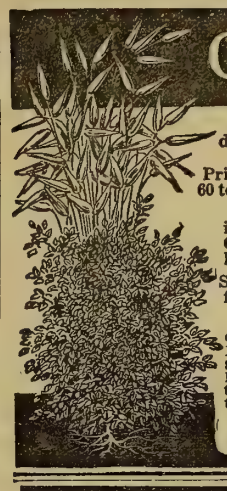
Oats, Alfalfa AND Potatoes



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Salzer's Rejuvenated White Bonanza Oats

Prize winning, heaviest yielding oats known. Sworn-to yields of 60 to 259 bush. per acre. Your land can return the same to you.

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is the biggest, quickest, most dependable money maker. Our alfalfa on Gov. Hoard's farm produced over $80 of hay per acre.

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Salzer's Earliest yielded 464 bushels to the acre for the editor of Rural New Yorker.

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Crop Maker Roller Bearing—Fanning Mill

The easiest-running fanning mill a man ever turned—therefore the one for complete service and biggest results.

Every farmer knows the value of a good fanning mill. If you don't own one now, you are probably thinking of buying. But before you do buy, let us send you a Free Book telling about our great offer, which enables you to prove to your own satisfaction the wonderful capacity of this Crop Maker for *perfect work.*

30 Day Trial—Direct Factory Price

We mean just what we say—*free* use of the Crop Maker on your own farm for a full month, without obligation to buy, with the machine *yours at factory price* when you find that all we claim for it is true.

The Crop Maker runs "like oil" because it has roller bearings. It cleans, separates and grades grains and seeds of all kinds—turns out perfect seed for planting—insures bigger crops and larger profits. You will make many times its cost in a single season. This machine goes *to you from us*—one small profit added to the actual expense of making. Be sure to write at once for the Free Book, detailed description, price and complete offer. Please write *today.*

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Trojan "More-Corn" Sorter

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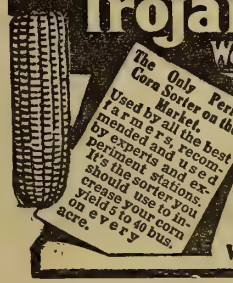

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HOW TO GROW IT ON YOUR LAND

"Alfalfa—Wonder Crop," is the title of a new book just issued by us. It contains a fund of priceless information on alfalfa growing secured from many sources; United States Government, State Experiment Stations, the best posted authorities and successful growers. This information was secured at a great cost of time, money and research, and yet it is yours for the asking **without cost.** This book will convince you that your farm has some land on which you can grow alfalfa; it tells how to get results from the first planting, how to select the field and prepare the soil, including fertilizing, plowing, liming, and how to prepare the seed; when to plant, how to plant. It tells you what to do during the growing period, how to get bigger than average crops, and how to cut and cure. This book is worth many dollars to the farmer interested in growing alfalfa, but we gladly send it without cost or obligation of any kind if you answer at once. Don't put it off—write for free book today.

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The Only Perfect ENSILAGE and Check Rower

Press down foot lever, release wire and this Janesville Corn Planter *drills close for ensilage.* Press down foot lever, attach wire and away she goes, planting 2, 3 or 4 kernels to the hill, as you desire. Change from one to other *instantly*, without getting off seat, without stopping team. It's the greatest ensilage planter *ever built*—and the greatest corn planter. Look here, at these additional advantages. Shaft drive, no chains to break or get out of order. Runs in oil, greased at factory *for a whole season* with axle grease—no kerosene needed—dust-tight gearing. Flat and edge drop plates free. Change of plates made in a second. Shoe, stub or disk runners on same machine. Automatic wire release. Perfect fertilizer attachment if desired.

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Let us tell you all about the Janesville Corn Planter features—why it drills so close for silage, how easy it is to make changes for checking or drilling, for planting 2, 3 or 4 kernels in spots you know best—why its construction saves wear, saves time, saves work, *saves money*. Address postal to us now for book.

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BUY your seed corn from a farmer's company at farmer's prices. Seven varieties—Reid's Yellow Dent, Iowa Yellow Dent, 90 day; Farmer's Friend, Iowa Silver Mine, Boone County White, Big Bloody Butcher and other varieties. Gathered in September and October. Prices for shelled and graded $1.75. for selected ear seed in bags $2.25, crated ear seed $2.50 per bu. 15 lbs. any variety free with five-bushel orders or over. Only one grade, it's the best. We ship on 12 days' approval. Write for circulars and free samples to **BOTNA VALLEY SEED CO., Box E, Lewis, Iowa.**

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Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, **Seed Corn,** Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. **Large illustrated catalog of great value to farmers free.** Mention this paper. ***Iowa Seed Co.,*** Dept. D1 ***Des Moines, Iowa.***

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Recommended by experiment station and the best farmers. Yield 112 bus. per acre. We also have **Swedish Select, White Shonen, Mammoth Cluster and Danish Side Oats, Seed Corn, Grass and Garden Seeds, and Pure-bred Poultry. Send For Free Catalog.**

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My famous high yielding strains, bred for high yield, strong stalks, freedom from barren stalks; 10 to 40 bushels per acre increased yield assured if you plant my seed. Every ear grown on my farms. Selected in early fall and dried on rack. Practically 100 per cent strong, every test. Get my corn booklet No. 3. describing my work with corn. C. Ray Moore, Box 33, Kellerton, Ia. "The man who does things with corn."

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Regenerated Swedish Select from seed bought direct from the introducers, The Garton-Cooper Seed Company. Latest improved strain. Recleaned and shipped in new 2-bu. bags. Prices: 2 to 10 bu., 85c per bu.; 10 bu. or over, 75c per bu. Address
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WE make a specialty of Reid's Yellow Dent corn. Standard type. Bred to yield. Picked early and dried on racks. Germination perfect. Send for catalog and prices. **Sommer Bros., Pekin, Illinois.**

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Red River Ohios. Extra selected seed corn, Reid's Y. D. Sample ear 15c. Clover and timothy seed. Also timothy and clover mixed, one-fifth R. clover, $4.00 a bushel. Sample and circular free. **THE ALL GROW SEED HOUSE, Knoxville, Iowa.**

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A BEAUTIFUL medium. early white oat with the stiffest straw and heaviest yielding qualities, 85c graded and sacked. Send for post card. Address **W. C. BRYANT, PRINCETON, ILLINOIS**

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STANDARD varieties. Sept. picked and dried on hangers, best type and germination. Crated, $3.75. Shelled and graded, $2.75. Send for circulars. **W. C. BRYANT, PRINCETON, ILLINOIS**

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Alsyke, Timothy, Mixed Alsyke and Timothy, etc. Send samples stating quantity. The Adams Seed Company, Box 19, Decorah, Iowa.

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Fire-dried **SEED CORN** husked before the frost, dried on independent seed ear racks with air and steam heat. Sure to grow because germ is preserved. Also Clover, Alfalfa, Oats, Rye and Garden Seeds. Write at once for **FREE CATALOG** and receive **FREE SOUVENIR.** Address

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Cow Peas and Soy Beans

Write for Samples and Prices. Address,
JAS. S. EVANS & SONS, Vandalia, Ill.

Kherson Seed Oats

MOST productive in seven-year test at Iowa and Nebraska stations. Twenty bu. or more, 85c a bu.
GEO. GREGORY, RALSTON, IOWA
C. & N. W. main line.

250 Strawberry Plants $1

OR 100 evergreen seedlings $1.00, or 75 raspberry plants $1.00. Write for catalog and premium list. Address West Side Nursery, Box 1, Postville, Iowa.

Clover

Timothy, Barley, Sweet Corn and Field Corn, Pumpkin, Swedish Red Oats, Watermelon Seed, Alfalfa, Millet, Cane. Write for prices and sample. Satisfaction guaranteed. Hawkeye Seed Co., Lockridge, Ia.

300 BEST VARIETIES

Strawberry plants $1.50, express paid, fall-bearing strawberries, doz. $1.25. 25 black rasp., never winter kill, $1.00. **W. H. Koell, Box 710, Hampton, Ia.**

SEED OATS

Reg. White Bonanza, National, Emperor William oats, Oderbrucker barley, Ida County Yellow Dent corn. Price list and samples free. Address **ALLEN JOSLIN, Holstein, Iowa.**

SEED CORN

Johnson Co. White, Reid's Yellow Dent; high yielding, fine show corn. Won sweepstakes in state and local 1912 shows. Write for circular. **JOHN A. STAINBROOK, Route 9, Franklin, Ind.**

sures straight rows and the pegs make holes for the plants every four inches. This little device saves much more labor than one would think. The rows are placed about fourteen inches apart. Cultivation begins at once after the plants are started and should continue all through the growing season. My rule is not to tolerate a single weed. My favorite implement is a narrow wheel hoe, and others I use are the onion hoe, hand dibble and weed hook. The onions make rapid growth during the spring period of abundant moisture and all mature and dry up about the same time. When the tops wilt and turn yellow it is time to harvest the crop. The bulbs are pulled and left in windrows several days until cured. The tops are then twisted off and the bulbs crated. Bulbs of a uniform appearance sell best and all imperfect and small ones are kept by themselves and later disposed of according to their worth. After crating the onions are stored in a cool and well ventilated shed until marketed. There is never any difficulty in selling at good price. Our country does not begin to grow enough for her own use and while such a state exists we may reasonably hope for the price to remain good. The yield too is good if attention is paid to the crop and conditions are not too adverse. I do not advise every farmer to raise onions, but only such as can give the crop the cultivation and attention that it must have to produce success. With care and work it is always a very, very profitable crop, with neglect always as a rule a failure. C. J. Griffing.

THE HARDY COTTONWOOD.

To the Editor of The Homestead:

Have you ever noticed how early a cottonwood tree sheds its leaves and begins to ripen and harden its buds and twigs in the autumn? Fully a month before the oaks begin to get rid of their leaves you will find the limbs and twigs of cottonwood trees perfectly bare. This is the reason they are such hardy trees, and why they are adapted to such a wide natural range. You will find them growing all the way from the gulf coast to the Canadian boundary, and still further north for all I know.

Their adaptability to such a wide range is due more than anything else to their early shedding of leaves and toughening of their tender twigs and bud. Any tree is a hardy tree which ripens its buds early, provided the buds do not begin to swell too early in the spring. The black walnut also ripens its new wood early in the autumn, but it is not so hardy as the cottonwood, because the buds begin to swell and the tender leaves to form rather early in the spring. But this early swelling of buds may be prevented by putting a thick covering of old straw, hay or leaves upon the snow or frozen ground under the trees in the late winter, thus keeping in the cold and preventing the too early starting of the sap upward, no matter how mild and sunny the late winter afternoons may be.

Few other trees are so valuable on a northern farm as a grove of cottonwoods. They grow very rapidly, and produce a tremendous amount of firewood and fence posts of fair durability, as well as rough timber and lumber for any purpose needed on the farm. They grow thickly on bare, sandy land, and in rather dry localities too, provided the young trees can get a little moisture by some means for the first few years, until their roots have struck down deep enough to reach soft, loose strata of sand or other friable soil. I. Motes.

SOME SIMPLE SPRAYS.

To the Editor of The Homestead:

The farmer who knows how to make simple sprays for vegetables, berry vines and fruit trees will not only save his crop, perhaps, but save a lot of extra expense in the purchase of spraying mixtures prepared by others.

A simple spray, easily made and death to beetles, bugs, moths and worms is a strong solution of tobacco. Take a plug of some strong, dark tobacco, cut it into thin slices or strips and steep or simmer in hot water for five or six hours. A pound plug should make twenty-five or thirty gallons of spray. If you have only a few berry bushes, young fruit trees,

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Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

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100 EVERGREENS $7.50
Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of

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Tells you how to plant
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BIG FREE BOOK ON CLOVER

A gold mine of information

We have just published a wonderful new book entitled "Clover, the Great $Cash Money Crop$." It tells you how to get a sure "catch" first planting; how to keep clover in the rotation; about clover as a soil enricher; how to handle the crop for hay and seed production; how to grow clover that makes richer feed—that produces more beef and milk. It explains the cause of clover failures; how to avoid winter killing; how to prevent ground heaving; how to guard against the loss from heat and drought; all about the causes of "clover sickness" and how to deal with it. Hundreds of other questions, covering sixteen clover varieties, are fully answered. Ordinarily this book sells for 35c, but for a short time we will mail a copy free, or until a certain number have been distributed. Write at once.

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yield liberal crops under normal conditions. They are tested for vitality and purity before being sold. For nearly 40 years we have supplied "worth-while" seeds.

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Prices Below All Others

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WONDERFUL OATS

Yields 140 Bu. to the Acre
Two Splendid New Varieties

Wonder of the age. Big Money Growing New Oats from our Imported Canada Grown Seed. Extra Fine. Send for Free Samples and 76-page Catalog giving full particulars. Write now and save money.

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MORE POTATOES PER ACRE

Think of finding one to eleven $5 bills in the furrow, on every acre you plant. It's been done many times. Plant the spaces you skip, sell the potatoes, and you've got the money. No extra land, no extra work. It costs no more to prepare ground, fertilize cultivate, spray and dig a perfect stand

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This machine soon pays for itself and yet puts real money into your pocket. One seed piece in every space and one only. Uniform spacing. No injury to seed. Ask your dealer to show it and write us for free booklet, "*100 per cent Potato Planting*." We make full line Potato machines, Garden tools, Sprayers, etc.

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Seed Corn Tester

Makes complete tests in three to five days. Adapted to the Saturation, the Saw-dust or Sand, and the Earth or Soil test. Six Sizes: 2½ to 66 bushels. This machine is also the

DOUBLE QUICK
Grain Sprouter
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For Sprouting oats for laying hens

Also Starts GARDEN PLANTS Quickly

A useful machine for every farm. Send for free information. CLOSE-TO-NATURE CO., Colfax, Iowa.

CLOVER New Crop Iowa Grown Recleaned TESTED

and inspected Red Clover. Also Mammoth. Alsike, Alfalfa and Sweet Clover of choicest quality.

TIMOTHY Blue Grass, etc., at low prices. Now is the time to buy.

Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.
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INVESTIGATE---Best and Cheapest Seeding Known. Alsike Clover and Timothy mixed. Fully 1-3 alsike, a big bargain. Greatest hay and pasture combination grown. Write for Free Sample and 76-page catalog and circulars describing this wonderful grass mixture. Beats anything you can sow and ridiculously cheap. We handle only best tested recleaned seed guaranteed. Write before advance.
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How to grow Alfalfa, how to feed it, how to harvest and care for it. Full information for corn belt farmers who wish to grow this most profitable hay crop will be sent free on application. Also a sample of our extra choice high grade seed.
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JUNG Jack Rose Early Tomato Seed FREE

In order to acquaint you with the high quality of our Farm, Garden and Flower Seed, we will send a packet of our Jack Rose Early Tomato seed absolutely Free if you send a 2c stamp to pay postage. We will also include a copy of our illustrated bargain list catalog. It's a money saver. Send today.

J. W. JUNG SEED COMPANY,
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Sand Vetch The Hardiest Forage Crop and Greatest Fertilizer

Our hardy Sand Vetch will grow anywhere, regardless of heat, cold or drought. Especially good for sandy, dry land. Crops range from 6 to 10 tons per acre. Excellent feed for growing animals or milch cows; 25 per cent more valuable than any other fertilizer. Send for free catalog.
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The new pasture and forage clover. Equal to alfalfa in productiveness. Sample seed and circular giving directions for growing mailed free on request. Also copy of our large illustrated catalogue of Farm and Garden Seeds. Ask for it.
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ALFALFA $9.75 Per bu.

Best Non-Irrigated Seed---99.6% Pure

95% Germination absolutely guaranteed. No seed better. We sell good seed for $8.00. Also have Turkestan alfalfa. Write now for free samples and save money. Our 76-page book sent Free, giving valuable information on growing alfalfa. Write today.
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potato vines or other low vegetable growths the mixture can be applied with a large hand sprinkler. It should not be applied to berry bushes, or to peas or beans when the berries or vegetables are nearly ready to be gathered. This is especially good for potato vines attacked by bugs, flea-beetles and the like insects.

For blackleg, causing the stems of potatoes to rot, plant only clean seed potatoes. Disinfect the seed by soaking two hours in one pound of formaldehyde and thirty gallons of water. Dry, cut and plant as usual.

Bordeaux mixture is made by mixing five pounds of copper sulphate and five pounds of fresh lime in fifty gallons of water. This is good for mildew blight on potatoes. If it is desired to kill potato bugs at the same time add six ounces of Paris green. Or if you desire to use Paris green alone for bugs use the six ounces with one pound fresh lime in fifty gallons of water.

For Colorado beetle spray with arsenate of lead, made as follows: Arsenate of lead twenty ounces, arsenate of soda ten ounces, dissolve separately and pour one after the other into a barrel containing fifty gallons of water. This preparation also destroys fleabeetles, small flea-like beetles which eat holes in the potato leaves.

Subscriber.

WOODROW WILSON TO THE FARMER.

The farmer has not been served as he might and should be. We have set up and subsidized agricultural schools, horticultural schools, schools of poultry raising, and the rest, and they have done excellent work. Our support of them should be hearty and generous. But a more effective way still has been found by which the farmer can be served. Lectures and schools and experimental farms attached to schools like laboratories are excellent, but they do not and cannot of themselves push their work home. Some states have gone much beyond this and we should follow them with zest.

The thing that tells is demonstration work. The knowledge of the schools should be carried out to the farms themselves. Dr. Seaman A. Knapp found the way when he was sent into the South to fight the boll weevil. Choosing a good farm and a good farmer here and there, he showed the farmer how to cultivate part of a field, gave him simple fundamental directions, brought him selected seed, and made frequent visits afterward to see that his directions were carried out. Of course the neighbors promptly took notice and the next season did the same things, with the same results—good crops, earlier crops, crops that the weevil was no match for.

And fighting the weevil was only an incident. The work grew in every direction—not work in the schools, but work suggested and directed by men sent out from the schools to take science to the farm, until the agricultural department could not supply the men called for from every direction. The countryman began once more to come into his own. When the farmer does fully take science into partnership and become his own master and fortune builder, the day will be gone once for all when the townsman can tax him and ignore him and absorb unto himself the powers of government at his pleasure.

It does not require a great deal of money to train men and send them out for this work; and when once it is begun it goes on of itself. Private persons, voluntary independent associations, county authorities take it up. It is a thing that gives life as it goes. It awakens countrysides and rouses them to take charge of themselves. It is not help from the government, it is merely light from the government. The light does the rest. We should give ourselves the pleasure, the pride and satisfaction of putting New Jersey forward to set an example in this truly great and intelligent work for relaying the foundations of wealth and prosperity in the United States.—[Woodrow Wilson to the New Jersey Legislature.

SEED CORN Reid's Y. Dent, Gold Leaming, Boone Co. White, 90 Day Y. Dent, for northern farmers. Early picked and dried on a rack. A post card will bring my 48-page Seed Corn Book. It's free to you, ask for it now.
H. Z. O'HAIR, BUSHTON, ILLINOIS.

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This man, always on guard, could, by his own unsupported efforts, do little to save life, or to guide ships away from perilous points.

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In the same way, the Bell Telephone in your home and office is always on guard.

By itself, it is only an ingenious instrument; but as a vital unit in the Bell System, which links together seven million other telephones in all parts of this country, that single telephone instrument becomes a power to help you at any moment of any hour, day or night.

It costs unwearying effort and millions of dollars to keep the Bell System always on guard, but this is the only kind of service that can adequately take care of the social and commercial needs of all the people of a Nation.

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IS a beautifully illustrated book of expert information written by America's most successful strawberry grower. It gives the famous Kellogg sure-crop method and explains just how Pedigree Plants are grown on the great Kellogg plant farms in Michigan, Oregon and Idaho. Any man, woman, boy or girl, who reads this book can grow big crops and get big prices. Strawberries yield more dollars per acre than any other crop. Our book tells the whole story. It's FREE to you.
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Prices sure to rise. Save money by buying before advance. Get our special low prices and free samples of our Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Also alfalfa, alsike, sweet clover, all kinds grass seed. 1913 catalog free quoting all field seeds. Save money by writing
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BLUE GRASS SEED

Get the genuine—*Direct from the Blue Grass State.* Write for prices and free folder. BLUE GRASS SEED CO., Sta. N, Covington, Kenton Co., Ky.

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IOWA GROWN, 99% PURE, double sacked, safe arrival and satisfaction guaranteed. Prices right. Ask for wholesale price list and big seed catalog Free.
Henry Field Seed Co., Box 15 Shenandoah, Iowa.

SEEDS Large package Giant Pansies and fine Illustrated Catalog FREE
SPECIAL OFFER: 10 varieties Burbank's Floral Gems and 10 sorts Spencer Sweet Peas, 6c.
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85c per lb. and up

Write for FREE SAMPLES of our new crop onion seed; lowest wholesale prices, and Free Leaflet on onion culture. Catalog Free. All kinds of garden seeds at wholesale prices and freight prepaid.
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Best for windbreaks. Protect crops and stock. Keep house and barn warmer—save fuel—save feed. Hill's evergreens are hardy, nursery-grown—low priced. Get Hill's free illustrated evergreen book and list of Great Bargain Offers—from $4.50 up per Thousand. 56 years experience. World's largest growers. Write.
D. HILL NURSERY CO., Inc. Evergreen Specialists.
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SEEDS Best Grown. 10 Varieties, Burbank's Floral Gems, 10 sorts Spencer Sweet Peas and 5 Fairy Roses (seeds) all for 10c. 5 packets vegetable seeds 10c. Catalog and pkt. Giant Pansies free. A. C. Anderson, Box 36 Columbus, Neb.

SEED CORN Seed corn that is seed corn. All extra selected, tested premium corn. Reid's Yellow Dent. Sample ear by mail 15 cents. Circular Free. The All Grow Seed House, Knoxville, Iowa.

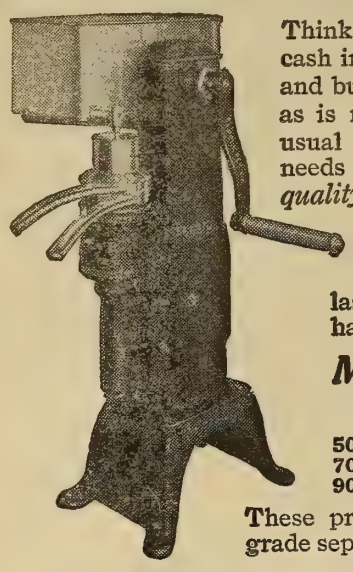
SEED OATS, Reg. Swedish Select. CLOVER Med. Red. Ask for samples and prices. Address H. D. CLORE, Lucas, Iowa.

REGENERATED Swedish Select oats. Recleaned 50c bu. Mandscheuri barley 75c. Clover and Timothy seed. Samples. B. S. Strayer, R. 1, Hudson, Ia.

SEED CORN Hecker's Improved Red. High yield and early maturity. Happy Home Farm, Amboy, Ill.

"STANDARD" Cream Separators

700 lb. Capacity $56.50 Spot Cash



Think of it! The dairyman with spot cash in his pocket can now go to his dealer and buy as high grade a cream separator as is made for little more than half the usual retail price. The "STANDARD" needs no introduction. It is a *high-quality machine* of well-known manufacture. There are over 30,000 now in actual use. Made for years in our own factory. Guaranteed to last as long and skim as close as any hand machine made.

Mail Order Price But Not a Mail Order Product

500-550 lb. Cap., $47.50. Reg. Price $ 75
700-750 lb. Cap., $56.50. Reg. Price $ 90
900-950 lb. Cap., $63.50. Reg. Price $100

These prices are unheard of for any high grade separator sold through reliable dealers.

Sold Only Through Dealers

We enable our dealer to meet mail order competition by making and selling a large output of machines at *cash with order prices.* Our manufacturing cost is low; we get our money promptly and save the expense of having salesmen. The dealer in turn sells for spot cash at a low margin of profit. For these reasons he can meet mail order prices (capacity and quality considered). and still give his customer dealer service, a chance to see the machine before he buys it, and in addition

A Liberal Free Trial

If the "STANDARD" does not hold its own with *any high priced* machine on the market, you can return it to the dealer and get your money back without a quibble. You won't have to argue. We see to it that he refunds your full purchase price.

Write us for catalogue fully describing the "STANDARD", and for *money-back Guarantee,* and give us the name of your dealer. We'll do the rest—without in the least obligating you to buy, unless you want to.

NOTE: For herds of more than ten cows we recommend using the self-powered "AUTOMATIC." It requires no cranking; is driven by a self-contained gasoline engine of remarkable efficiency. Bowl spins at high, even speed, without a trace of vibration. A great labor saver. Used by thousands of up-to-date dairymen in this country. Write for our "AUTOMATIC" catalogue and testimonial letters. They will surprise you. If you are milking but six or eight cows, buy the hand-driven "STANDARD" at mail order price now, then trade it in later for an "AUTOMATIC" when your herd becomes larger. We will make you a liberal allowance through your dealer.

STANDARD SEPARATOR COMPANY, 317 Pereles Building Milwaukee, Wisconsin

This Famous Door Makes Silage Feeding Easy

The most important part of a silo is the door. On it depends your *convenience* and *safety* in every day use. That's why *no silo on earth* can compare with *the Hinge Door* Silo for *genuine satisfactory service.* Think of the convenience of keeping your silo doors closed air-tight the year around. Protects your silage from freezing in winter and drying out in summer. The Hinge Doors can be opened and closed with one arm easier than your barn doors. Doors can't bind, sag, stick or freeze in, because they set against the door frame instead of into it.

Write for book about

has more good points to its general construction than you ever believed possible.

Malleable iron ladder formed by the big hinges makes the safest ladder ever put on any silo. 7-inches for hand and foot hold; all steel door frame — heavy Billet steel hoops—staves of first clear lumber—tongued and grooved full ⅝ inch—weatherproof steel spline—strong anchors base.

Lansing Silos

The far-famed silo manufactured in Lansing, Mich, now sold exclusively by us with many improvements in its construction. With the exception of the door feature it has practically the same high grade construction we have incorporated into the Hinge Door Silo.

Your choice of two famous silos. You will be overlooking your best interests if you don't write us at once for full facts.

Silberzahn Silage Cutter

Sold exclusively by us, west of the Mississippi river. Many valuable improvements this year. Cuts any kind of forage. All facts clearly told in our catalog.

WOODS BROS. SILO & MFG. COMPANY
LINCOLN, NEBRASKA
Successors to Nebraska Silo Co., Lincoln, Neb., and Severance Tank & Silo, Co. Lansing, Mich.
Branches: Lansing, Mich., Maryville, Mo., Minneapolis, Minn., Cedar Rapids, Ia., East St. Louis, Ill., Topeka, Kan., Lexington, Ky., Denver, Colo., Spokane, Wash.
NOW—Write Dept, 18, Nearest Office.

WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Producing Jersey Cows

I HAVE for sale cows and heifers of the most popular producing strains, and at quite reasonable prices. Would also spare a few choice young bulls. 2 mature Shropshire rams, a number of ram lambs at farmer's prices. Geo. S. Redhead, Des Moines, Ia.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

CO-OPERATIVE BUYING OF BULLS

To the Editor of The Homestead:

Recently a community was visited which is famous for producing good Holsteins. Upon inquiry as to the best breeders we were referred to a farm where two brothers kept a pure-bred herd. Along with a herd of most excellent cows we found a bull of remarkable merit. Not only was the bull a good one as an individual, but had in his pedigree a large number of the best producing females in the eastern states. After numerous comments we inquired the price paid for the animal, "Twelve hundred dollars, a company of us own him. The members of the company have eighty or more cows and we figure that the increased value placed on the offspring by the fact that they have been sired by this excellent bull will bring us good returns on our investment. We have some very good cows, but it seemed that if we were to improve beyond a certain standard it would be necessary to do so by the use of a high-class bull. We screwed up our courage and bought the best we could find," was the explanation given us.

What those men are doing any community can do. They had in mind one central idea, improvement. All progressive farmers are seeking that same end. Improvement of dairy cattle must come largely through the use of better sires. If we use sires of mediocre merit we shall produce calves of corresponding value. Of course it is not advisable for an ordinary community of farmers to pay $1,200 for a bull. Yet they must secure an animal of higher merit than the cows else no improvement will come. Let us suppose that five men join together in the purchase of a really good bull. The price is divided by five. A much better individual animal is secured and often for a smaller investment per man than if each purchased a cheap grade mongrel or scrub or even an inferior pure bred. Whatever the price a pure bred must be secured for he is far more likely to transmit his qualities to his progeny.

Company or co-operative bull buying leads to several advantageous things. In the first place if the right sort of an individual is secured it means that the owners and users are well started on the road to better cows and more profitable farms. Then it insures that one and the same breed will be kept in the locality. This gives the neighborhood a reputation for cows of that breed and naturally attracts buyers thither. This is true of grades as well as pure breds. The present day demand for good grade cows is very satisfactory and possible profits from cows is not to be overlooked. Another item to be considered is that only one bull instead of several are to be fed and cared for. It costs from $25 to $60 to feed a bull for a year besides the labor and maintenance of his shelter. So if a number are eliminated expenses are cut down and profits correspondingly increased.

A plan that has been started and which bids fair to grow in favor, is for a larger community to purchase three bulls. They are, of course, of the same breed and similar in breeding and value. Each of the three is located in one locality where he will be most readily accessible for the farmers in that one-third of the community. After two years when each bull has heifers old enough for service the bulls are changed so that each one replaces another. In that way inbreeding is avoided. At the end of another two years or four years after the beginning, the bulls are moved again for the same reason. hus six years' service is secured from each bull for one original purchase price. At the end of six years if any of the bulls have proved themselves to be exceptionally good breeders they can be retained and used for a longer time.

It often happens that good bulls are sold off before their real value has been demonstrated which cannot be until they have heifers in milk. This plan of buying three bulls and using them for six years meets that condition as no other plan can pos-

Only 10¢

"Modern Silage Methods"

1913 copyrighted edition just off the press. Send for this 264-page book of profit-producing information—the most complete work on this subject published. Tells facts you ought to know about silos and silage—used and endorsed by many agricultural colleges—over 45 illustrations—indexed—a wealth of useful information for the practical farmer. Chapters on—"How to Build Silos"—"How to Make Silage"—"How to Feed Silage"—"Silage System and Soil Fertility"—"Silage Crops in Semi-Arid Regions"—All about Summer Silos, use of Silage in Beef Production and many other points. Ninth edition now ready. Send for your copy before too late. Inclose 10c in coin or stamps and mention this paper.

Silver Mfg. Co., Salem, Ohio

Bird and Rain Proof Ventilator

Gives fresh air circulation and keeps out sleet, snow and rain. Birds can't nest in it. Keeps your stock healthy and brings you bigger stock profits. A real necessity for every barn, whether old or new. Improves appearance 100 per cent.

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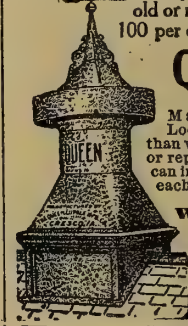


Queen Cupola

Is a Real Cupola

Made of galvanized steel. Looks better and costs less than wooden cupola. No painting or repairs. Lasts a lifetime. Boy can install it. Gold leaf vane with each cupola.

FREE TRIAL

Write for free catalog. Also full particulars and complete price list.

QUEEN CUPOLA CO.
310 PECK STREET
Cresco, - Iowa

Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

Blatchford's Calf Meal Factory
Waukegan, Ill.

Reduces Feeding Cost $10 per Head in 90 Days

That's the record made by H. B. Johnson, Chickasha, Okla., who started feeding ensilage to 900 head of one and two-year-olds Oct. 4th. Sold entire lot short time ago and made or saved $10.00 per head on feeding expense alone, a clear gain of $9,000 on entire lot.

Champion Silos Make Big Profits

The quality of your silo partly regulates your profit. That's why it pays to get the best, namely, the Champion with solid steel interlocking door frame, malleable lugs, steel anchors and inside hoops and other modern improvements that make it the best in the world.

Write for Full Particulars

Investigate carefully. Find out why the best farmers and feeders buy Champions. Let us show you why the Champion is best for you, why it makes biggest profits. We send real facts free.

WESTERN SILO CO., 100 11th St., Des Moines, Ia.

sibly do. The men in the company who handle the bull first mentioned in this article sold off a bull in that manner. A couple of years later when several of his heifers had gone through a yearly test it was demonstrated that his heifers were an unusually high-class lot of producers. The owners would have given a great deal to have been able to secure the return of that good bull, but he was gone. The three bull six-year co-operative plan would have retained him until after his real merit had been proven. Then he could have been used until quite an advanced age bringing lasting improvement to the cattle of the locality. One community where such a plan was established last summer figured that $2,000 was saved in the purchased price of the bulls over the plan formerly in vogue. Important as that is doubtless the improvement in the quality of the cattle will be much greater.

H. E. McCartney.

SHALL WE MAKE BUTTER?

To the Editor of The Homestead:

Several men have told me lately that they were convinced that there is more money in making the farm milk up into butter than in selling it for milk. These men, too, are farmers who have tried both methods. At a meeting of practical men the other night, an old farmer who has made money at it said he believed the right way, the best way, to dispose of milk is to put it into butter; then if we can sell it pretty nearly direct to the man who eats it, we have the problem pretty much solved.

You see there is this about selling milk for shipment to the big cities. The man who does it practically sells his farm by piece-meal. He gets no milk back to help him grow calves or hogs. He must buy his cows if he wants more when the old ones are gone. He must spend hours every day getting his milk to the station, hours right out of the heart of the day.

Where a man makes up his own milk, the milk all is saved for the calves and the hogs. It can be fed warm, which is a bigger thing than most of us understand, and so greater good can be gotten out of it. It is true the creamery will enable one to get milk back, but it is not always pure milk after all, unless it comes from a creamery that rejects the milk of cows which have not been tested for tuberculosis. Many a herd has contracted that fearful disease by feeding milk that has been taken from diseased cows.

I have in mind now a man who is building his farm up by making milk into butter this way. A few years ago his place was one of the most common in all this section of country. Now he has a little city of his own, with buildings all nicely painted and kept up well. There is now no better farm anywhere in the county than that is.

And it is my experience that wherever men are engaged in keeping cows and making the milk into butter the same thing is true. The farms are well kept and men are making something. I doubt it this is quite so generally true where the milk is all shipped out of the country. And another thing I am sure of, and that is that if one is so situated that he can make his milk up right at home, there will come to him many other ways of taking in money, such as for eggs and fruit and other farm produce. Few farmers establish a customer for butter in town that he does not have an outlet there for many other farm products and this is no small source of revenue.

A MISSION FOR SHORT-HORNS.

To the Editor of The Homestead:

Less than a generation ago it was the prevalent opinion among farmers that they were not in need of and could not be helped by scientific agriculturists. Among many "book farming," as they termed it, was held in contempt. It is true that agricultural education at that time was in its infancy and was very incomplete, but it held the principles on which a broad and helpful system of scientific agricultural education was afterward developed. The sons and grandsons of men who had no patience with "book farming" have gone to agricultural schools and obtained the knowledge necessary to enable them to intelligently undertake the various problems of farm life, the restoration of soil fertility, the introduction of better varieties of grain and the improvement of live stock. Tedious and costly experiments, conducted at state and national expense, have introduced varieties of wheat that are hardier and more resistant to frost and that add materially to the annual productive value of the land. Other experimenters have introduced new varieties of cotton with longer fiber of better quality, while still others are experimenting to increase the disease-resisting powers of both plants and animals.

All these efforts are worth while and many have already increased the knowledge and wealth of the agricultural class. Very few farmers have the time or convenience to conduct such experiments as these, but all farmers should have the ambition to improve methods, grain and live stock. The farmer who increases the productive value of his land either by restoring soil fertility or by raising better grain gains a personal success and to a limited extent becomes a public benefactor. If this be true of the grain farmer what can be said of the progressive stock grower? There never was a time when there was as great need of growing two pounds of beef where only one grew before. Such a marked increase may be possible only in some instances, but very great improvement is needed in the cattle of the majority of farms. The scarcity of beef cattle and their resultant high value will surely stimulate their production on farms from which cattle were eliminated by the low prices of fifteen years ago. In restoring cattle to the farms, it will be an improvident and unwise man who will be content with cattle of indifferent quality. Feed has been high and will not likely be low again for some years, hence only well-bred cattle that give good returns for feed

Perfection Fairfax, the remarkable Hereford sire. A first-prize winner from a calf up to grand champion as a four year old. A sire of show cattle of such high merit that they have won first in get of sire class wherever shown during the past year. Sons and daughters of this great sire and cows bred to him are features of the sale of Hereford cattle to be made at Kentland, Ind., on Wednesday of next week, February 26th, by Warren T. McCray.

SEE AND TRY A
DE LAVAL
CREAM SEPARATOR

Be Your Own Judge

We cannot believe that there is a sensible man living who would purchase any other than a DE LAVAL Cream Separator for his own use if he would but SEE and TRY an improved DE LAVAL machine before buying.

It is a fact that 99% of all separator buyers who do SEE and TRY a DE LAVAL machine before buying purchase the DE LAVAL and will have no other separator. The 1% who do not buy the DE LAVAL are those who allow themselves to be influenced by something other than real genuine separator merit.

Every responsible person who wishes it may have the Free Trial of a DE LAVAL machine at his own home without advance payment or any obligation whatsoever. Simply ask the DE LAVAL agent in your nearest town or write direct to the nearest DE LAVAL office.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

Pure-bred Registered
HOLSTEIN CATTLE

Though they hold all milk and butter records, after all, the chief consideration leading a man that understands cattle to choose Holsteins is their great strength and constitutional vitality. For that is the source of their power to produce such large quantities of milk for long periods and to produce it at little cost. Their great strength makes them economical feeders; they have good appetities and digestive powers that allow them to make profitable use of roughage that more delicate cows refuse to eat.

Send for Free, Illustrated, Descriptive Booklets.

HOLSTEIN-FRIESIAN ASS'N, F. L. Houghton, Sec'y, Box 113, Brattleboro, Vt.

Holstein Cows and Heifers at Bargain Prices

ON account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a car load. All tuberculin tested and bred to registered bulls. Also few registered bulls ready for service. ROCK BROOK FARM, STA. B, OMAHA, NEB

Russell's Holsteins

Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

T. H. RUSSELL, - Geneva, Ohio

Holstein-Friesians

Cows and heifers, good size, well marked, and all springing. All are tuberculin tested. Will sell singly or in carload lots, and at reduced pr[illegible]

A. J. PODENDORF, - Logan, Iow[illegible]

INGLESIDE GUERNSEYS

MAY King and Glenwood families, 38 advanced register cows. All mature cows in the A. R. Largest herd of registered Guernseys in Illinois. Bull calves and a few heifers for sale. Send for catalog. T. W. BROPHY, Proprietor, 81 E. Madison Street, Chicago, Illinois.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

W. C. KENYON, - Elgin, Illinois

Pure-bred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
Send for FREE Illustrated Booklets
Holstein-Friesian Asso., 113 American Bldg., Brattleboro, Vt

FOR SALE

5 YEARLING GUERNSEY HEIFERS
AND
5 TWO-YEAR-OLD GUERNSEY HEIFERS
Part of them bred.
W. W. MARSH, Waterloo, Iowa.

REGISTERED GUERNSEYS

HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.
THE CHICAGO STOCK FARMS
R. B. Young, Prop. Buffalo Center, Ia.

40 BULLS 40

PURE-BRED registered Holstein bull calves, from 1 to 12 months old. An extra choice lot, most of them sired by our great herd bulls, and many of them out of high record cows. Our prices are bedrock. We are short of room and must sell at least 20 of them in the near future. Send for price list.

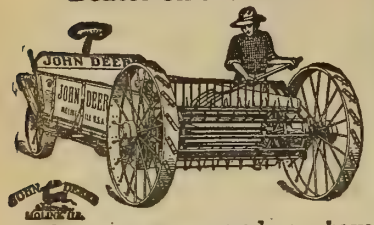
WOODLAWN FARM CO., STERLING, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and female calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis

John Deere Spreader

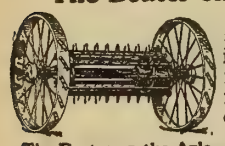
The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

The Beater on the Axle



The Beater on the Axle

The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

Out of Gear

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.

Only "Hip-High"

Easy to Load

Because the beater is mounted on the rear axle, it is only "hip-high" to the top of the box. Each forkful of manure is put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—*Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y.27*

John Deere Plow Co.
Moline, Illinois

consumed and that contribute to the wants of the farmer will be profitable. Not every farmer can breed pure-bred cattle, but none can afford to raise scrubs.

Under present prospective conditions raising beef cattle on the farms will give a handsome profit. As a foundation for this industry Shorthorns are well adapted to every purpose. A searching test of more than 100 years in this country has fully demonstrated their worth. They are docile in disposition, they mature early, fatten easily and when matured have greater weight than others. For the production of beef and milk they are the farmer's cattle.—[B. O. Cowan, Long Beach, Cal.

VACCINATING HOGS TO STAMP OUT CHOLERA.

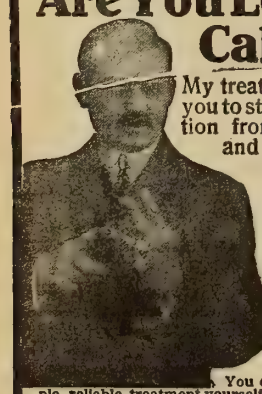
ARTHUR SAMPSON, Fulton county, Illinois.—I am not an editor nor a maker of serum, but I positively believe that vaccination properly done with serum that is potent will in the future almost wipe hog cholera out of existence. But I also believe that a great many mistakes will be made before all veterinarians and makers of serum become experts in that line. In the fall of 1911 cholera was all around me. My neighbor's hogs, just over the fence from mine, were sick. One of my sows took it, and I vaccinated the rest of them with serum, giving each sow 20 c.c. per 100 pounds weight. These sows all slept with the one that was sick and none of them lost a feed. I also vaccinated some shoats and allowed them to drink slop from the same pail as the sick one and none of them lost a feed. One, however, did not seem to do extra well. The next fall this same neighbor's hogs took sick and while mine were well I had them treated with the simultaneous method, using the state serum. They were pretty stiff for a day or so, but I never lost one and have had no cholera. The veterinarians both times were very careful to avoid the bone. It seems to me that in Mr. Clark's case there was something wrong somewhere from the different states that advocate the use of serum for prevention of hog cholera have settled upon the fact that it is a success. Of course, I prefer serum made by the state authorities. I have heard of a lot of cases similar to the one mentioned, and I think most of them occurred after the use of serum put out by some private company, although I believe some private companies do put out good serum.

Bred and owned at Limestone Valley Farm, Smithton, Mo. See advertisement elsewhere in this issue.

J. G. CAROTHERS, Des Moines county, Iowa.—There appeared in a recent issue of your paper an article entitled, "The Fatal Results of Vaccination." As I have also had experience in the vaccination of hogs as a preventive of the dread hog cholera I beg to be allowed space in your valuable paper to give my experience, as I feel that in justice to the theory of vaccination I should give my version of this very important matter. On December 1, 1911, I vaccinated 165 hogs, ranging in size from pigs of thirty pounds to hogs of 300 pounds each. At the time they were vaccinated, although my hogs were still in the best of health, my neighbors on all sides and for several miles around were sustaining heavy losses daily. I have a large place, and my hogs were kept up in lots close to the barns after cholera came into the neighborhood. As it seemed impossible to save them from cholera and as there was a chance by vaccinating I decided to risk it, with the result that there was not a hog lost, nor did any of them lose a feed. In the bunch of hogs there was a sow about one and one-half years old that had a very large rupture which took her weight down to about 125 to 150 pounds. We vaccinated her and operated for the removal of this rupture at the same time with the very best results. Antiseptics were used in this case both for cleansing the hogs and for cleansing the syringe between every operation. It appears to me that if a man knew his business there would be no trouble from bruising the bone, as the needle is put into the flesh in such a way as to avoid coming in contact with the bone. Another thing of great importance and to me almost the most important matter in connection with vaccination is the most scrupulous cleanliness of their bedding quarters as more hogs are lost from infection than from any other cause. The only trouble noticed with any of the hogs was that in a few days four or five hogs had lumps on the place where they had been vaccinated, from about the size of a walnut to that of a baseball. We opened these and that was the last of the trouble. Not even a hog was hurt in the handling. The amount paid for the vaccination of these hogs was $85, money I consider well spent, as I never lost a hog or had one sick from cholera, while my neighbors sustained very heavy losses. Although Mr. Clark, who wrote the above-mentioned article, was very unfortunate, and I sincerely sympathize with him, still I feel that this case was an exceptional one, calling for an experienced veterinarian or there was something radically wrong with the serum or in some manner the hogs became infected with the poison. I feel that his case is one out of a hundred and am fully convinced of the practicability of vaccination as a preventive of the dreaded cholera. I heartily recommend its use to all stockmen and especially to the poor man, as he is the one who suffers most from the cholera because usually his hogs are his year's work. I hope this will be of help to some one and also that it will encourage our friend, Mr. Clark, to give vaccination another trial.

FRANK E. BOOT, Marion county, Iowa.—In a recent issue of your paper I read an article written by John Clark in regard to the fatal results of vaccination. As we have done quite a lot of vaccinating around here I thought I would give my opin-

Are You Losing Calves?



My treatment enables you to stamp out abortion from your herd and keep it out.

Three Great Points

Overcome the germs—1, In the mother's blood. 2, In the genital organs. 3, In the stables.

You can apply my simple, reliable treatment yourself. If you have any trouble with your live stock, remember experiment is more costly than neglect. Write me, giving the symptoms and enclosing 2c stamp, and I will advise you by return mail, holding your letter confidential.

DR. DAVID ROBERTS, President
DR. DAVID ROBERTS VETERINARY CO.
3122 Broadway, Waukesha, Wis.

OVER 500 of My Farmer Friends Visited Me Last Week at Waterloo

I entertained them at our $60,000 Agricultural Club built for farmers and their families. I want every farmer who possibly can to come to Waterloo. The moment you step off the car at Galloway Station you are my guest—and you see everything at my expense. Come!

Rare Bargains Here!

Tremendous savings in Engines, Spreaders, Separators, Harrow Carts, Pianos, Sewing Machines, Incubators, Furniture, Rugs, etc. You can have a splendid vacation, free entertainment while here, and go home with money ahead on what Galloway Factory-to-Farm prices save you.

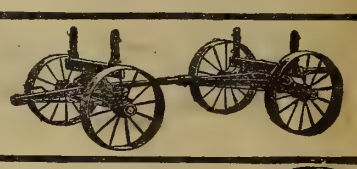
Make the Trip Now!

Treat yourself to this vacation trip while you can spare the time. Bring your wife along. Plenty to see and do here. A beautiful clubhouse filled with every attraction—music, splendid meals, home-like, comfortable sleeping rooms—everything to make you enjoy every minute as my guest—all FREE to you. Make up your mind to

"Come to Waterloo"

I'd like mighty well to show you over my big Model Dairy Farm—a real business plant—stocked with the finest pedigreed animals and fitted up with every convenience and profit maker known to modern business farming.

Wm. Galloway, Pres. Wm. Galloway Co.
10A Galloway Station, Waterloo, Iowa (207)



Low Steel Wheels Save Work and Money

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Steel Wheels and handy wagons save high lifts, prevent rutting fields and roads, are 30 to 50% lighter draft, not affected by heat or cold, spokes and rims never loosen. Write now for illustrated free book. Address

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Most anybody can make a dairy profitable in June. But the owner of an

INDIANA SILO

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Don't take our word for it. Read the book written by owners of Indiana Silos. It tells what the Indiana Silo has done for them and what it will do for you. Remember! You don't need cash to buy an Indiana Silo. It buys itself.

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Only $2 Down

One Year to Pay!

$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. **Guaranteed a lifetime.** Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half.

ALBAUGH-DOVER CO. [12]
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GUERNSEY

THE BUTTER BREED

Has merits worth investigating
Let us tell you about this
Wonderful Cow

The American Guernsey Cattle Club,
Box I. H. Peterboro, N. H.

BEATRICE Cream Separator

See a Dealer

Easy to Run, Hard to Wear Out

BEATRICE CREAMERY COMPANY
Chicago Lincoln, Neb.
Des Moines, Ia. Dubuque, Ia.

ion on the subject. In the winter of 1911 and 1912 cholera came into this neighborhood and we, with two of our neighbors, decided to vaccinate. We vaccinated 130 head and then in order to test it we put two hogs that were vaccinated and two that were not from a neighbor's herd that was having cholera into a pen together. The two that were not vaccinated died inside of two weeks, while the other two lived through it without even being sick. This particular neighbor lost 140 head. This fall we three vaccinated all of our hogs, about 350 head in all, and we never lost a hog from vaccination either this year or last. Our veterinarian did not wash the hogs with antiseptic, either. However, I know of serum being used around here that only cost $15, while we paid $36 for what we used. This shows that there is lots of difference in serum, and in my opinion the loss of hogs like Mr. Clark experienced is due to the serum used.

Cures While Horse Works

●If your horse has sore shoulders or galls you don't have to buy medicine or send for a veterinary to cure him—all that you need to do is to see that when he works he wears

The Lankford HUMANE HORSE COLLAR

$1.25

This collar is well built—stuffed with medicated cotton throughout; remains soft and pliable until worn out, and, if fitted properly, is guaranteed to cure sore shoulders and galls. Can be adjusted to fit any shape neck. Light and cool, easy to put on and take off. The best collars to use for colts or horses just starting to work. Will not sweeny the horse.

FREE Send for our Memorandum Account Book—keep a record of the things you'reapt to forget. Sent free on request. Write for it—also particulars regarding Lankford Cotton Filled Horse Collars. Prices $1.25 up. Trade Mark

The Powers Mfg. Co.
Dept. F 5701 Waterloo, Iowa

Know You're Right

Weigh your grain, stock and coal yourself and know positively you're getting a square deal.

The McDonald Pitless Scale

weighs accurately every day in the year. Protected bearings cannot freeze. No pit required—everything above ground. Steel frame—steel joists—10 year guarantee. U. S. Standard. Used for weighing U. S. Mails. Flying Dutchman Dealers sell them.

FREE BOOKLET. Write today.

MOLINE PLOW CO.
Dept. 11 MOLINE, ILL.

LUMP-JAW

positively cured in less than three weeks with one application of—

ADAMS

Rapid LUMP-JAW Cure

Easy method, little expense, no pain or scars. Written guarantee with each bottle. REMOV-ALL—"Beats 'Em All" for Sprains, Curb, Bog Spavin, all lameness. Sold on money-back guaranty. Free—Treatise on curing animal diseases. Write for copy today. H. C. ADAMS MFG. CO. Dept. 14, Algona, Iowa.

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HIDES Tanned by Experts

and made into a handsome fur robe or coat for man, woman or child according to any style you may choose from our New Style Sheet which is sent free. We are the first to offer a style sheet of definite styles in furs the same as we are first in every step of tanning. World's Best Tanners.

FREE Our big style sheet, 18x24, showing 20 different styles for Men, Women and Children

Globe Tanning & Mfg. Co., 220 E. 1st St. Des Moines, Ia.

Madison Spencer's Duroc Sow Sale.

One of the last Duroc Jersey sow sales of the season will be that of Madison Spencer at Audubon, Iowa, on Monday, February 24th, and he will sell about forty-five head in the sale. It is a representative offering in every way and he is selling some splendid sows. No breeder in the state has a better bred lot and they are just in the right condition to buy. In his announcement he says: "I am proud to come before you with such a bunch of sows and gilts, bred to four as good boars as the breed affords, namely, Crimson Chief I., King The Col. II., M. S. Pilot Wonder and Nellie Co. There are sows and gilts going in this sale that we have refused to price. In fact, we have reserved all our sows and gilts for this sale. We are making one great effort to put nothing but good ones in this sale, and if you attend we will guarantee you a square deal. There never was a by-bid made in my sale. If you bid on a sow you are not bidding against us, and if a sow fails to be in pig I don't ask you to accept a per cent, but you send me the sow and I will return every cent of your money paid for her. This offering consists of tried brood sows, fall and spring yearlings and early spring gilts. The aged sows are all good producers and have been money-makers for us, and we believe they will make money for their buyers. They are big, stretchy sows with lots of bone and will surely do the buyer good, for every one is a good one. The gilts carry lots of bone and size and have good quality. They are not loaded with fat, as we are not feeding for fat, but are feeding lots of oats and shorts and give plenty of range. I have no doubt but there will be many sales this winter and spring that will average higher than mine, but I don't believe there will be a bunch of sows sold that will make any more money for their buyers. These sows and gilts have been fed a balanced ration of oats, wheat and corn, with a very little oil meal. For exercise they are fed at the opposite end of the pasture from where they sleep and are allowed plenty of range through the day. The sows that I am keeping for my own use are running right with the sows that I am selling in the sale. The offering will be in good flesh, but not loaded with fat, but you can depend on seeing a good lot of sows in this sale." Bids sent to C. C. Carlin or M. T. White will be attended to on day of sale.

Recent Sales at Bushnell.

Manager J. G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "Inquiries for strictly high-class Shire, Percheron and Belgian stallions still continue good. Among the sales made by us recently are the following: A Shire stallion to Lawrence Balk, Carroll county, Iowa; a Percheron stallion to Rutgers Peters, Calhoun county, Illinois; a Belgian stallion to William J. McDonald, Bureau county, Illinois; a Shire stallion to Andrew Backlund, Spokane county, Washington; a Percheron stallion to B. F. Allender, Page county, Iowa; a Percheron stallion to Warren Cupp, Iroquois county, Illinois; a Shire stallion to Montgomery & McLeod, Benton county, Iowa; a Percheron stallion to B. H. Dennis, Keokuk county, Iowa; a Shire stallion to E. E. Cooper, Keokuk county, Iowa; a Percheron stallion to John White, Keokuk county, Iowa; a Shire stallion to J. T. Price, Clinton county, Indiana; a Shire stallion to Murray & Spindler, Ida county, Iowa. This is the third Shire stallion we have sold these gentlemen. We also sold imported Shire mares to Frank Boyer, Carroll county, Iowa; John Brand and John T. Castor, Jasper county, Iowa; George Hoover, Huntington county, Indiana, and George Wendell & Sons, LaSalle county, Illinois. These gentlemen are old customers and have one of the largest studs of Shires in this country. Our horses are in first-class condition and anyone wanting a strictly high-class Shire, Percheron, Belgian or Hackney stallion can find what he is looking for here."See advertisement elsewhere in this issue.

Breeders' Sale of Percherons and Shires.

On March 8th, at Malvern, Iowa, will occur the second annual public sale of registered Percheron and Shire stallions and mares, and it promises to be one of the very attractive horse sales to be made this spring. The horses listed in this sale will be contributed by the leading breeders in that vicinity and the sale will be under the management of Fred Durbin. Last spring these same breeders made their first annual sale and it was a great success and they are coming back again this year with a better offering and they hope to interest every farmer and breeder who is thinking of buying a Percheron or Shire stallion or a pair of mares. These horses will be contributed by the following breeders: C. E. Hilton, I. J. Swain, Grant Summers, Henry Parker, Clara R. Stevesson and O. A. Strahan, Malvern, Iowa; R. O. Jackson, Glenwood, Iowa; V. L. Gaston, Tabor, Iowa; J. H. Clark, Imogene, Iowa; C. E. Ballain and W. A. Lang, Emerson, Iowa; J. H. Thompson, Elliott, Iowa, and D. J. Gibbons, Cromwell, Iowa. The horses and colts that these breeders are listing for this sale are an extra good lot throughout and they have been raised by the smaller breeders who live in the vicinity of Malvern, Iowa, and have had good herds. There will be weanling colts in this sale that will weigh 1,000 pounds and stallions that will weigh 2,200 pounds. The breeders who contribute these horses have from one to fifteen mares on their places and by careful breeding and mating are now in a position to sell these horses. There will also be some splendid mares in this sale and it will be an excellent place to buy either a stallion or a pair of mares. Besides the registered stallions and mares they will also sell forty head of high-grade draft mares, geldings and fillies. It will be a great place to buy and those who may be interested should send to Fred Durbin, Malvern, Iowa, at once for a catalog. Kindly mention The Homestead when writing him.

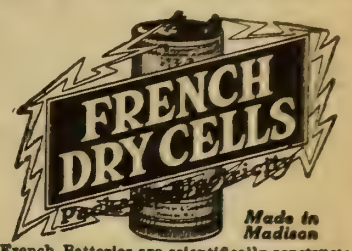
The remarkable success of L .M. Monsees as a breeder of jacks and jennets should in reality be an inspiration to every breeder of pure-bred stock. He has made Limestone Valley Farm, Smithton, Mo., the most noted jack farm in the United States. Those who have followed "jack" history will remember that he was the most successful exhibitor at the St. Louis World's Fair in 1904. The following year his offering by public auction resulted in breaking all records for a jack and jennet sale. Since that time Mr. Monsees, with the aid of three sons, has been bringing about a still greater development in numbers and in the character and quality of his breeding stock. The annual sale of Limestone Valley Farm has become a noted event in Missouri. Having chosen the first Tuesday in March as his sale date this event is looked forward to almost as a state occasion and it is not uncommon to find as many as 1,500 people assembled at this sale. His standing as a breeder of special stock and as a man is best attested by those who know him best—his neighbors. Mr. Monsees' work as a constructive breeder has really placed the jack and mule industry of this country under lasting obligation to him and it is fitting that a word of approval of his work and his methods should be spoken while he is actively engaged in the great work that he has mapped out with such remarkable foresight.

IF YOU WANT SEED CORN THAT WILL GROW

DEATHERAGE has it. We grow our own seed. Our farms are located in Sangamon county, one of the best seed-producing counties in the state. A big breeding plot. A large force of men began gathering seed in September. Germination is perfect, as our seed house—one of the best in the country—is furnace heated. Every ear is examined by an expert before crating or shelling. Reid's Yellow Dent and Boone Co. White shipped on ten days' approval. Six years in the business and not a bushel returned. Send for free catalog. Address Fred E. Deatherage, Box C22, Waverly, Ill.

Think of having the wonder-working power of electricity "on tap" all the time! Father, instead of fussing with a lantern in the barn, now simply presses the button of an electric flasher. Mother doesn't stumble down dark cellar stairs, risking life and limb any longer. She "switches on" a light and goes her way in safety. Son John—the coming "Young Edison"—is making all kinds of electrically-driven apparatus, from a doorbell to a gate-opener. Daughter Mary finds many uses for electricity. Even the mail-carrier presses a button on the mail-box 'way out in the road, which rings a bell telling the folks that there's mail in the box.

And remember this: These things and dozens of others can be done in a jiffy, at small cost, by the use of a few



French Batteries are scientifically constructed *packages of electricity.* They are *special*-purpose batteries built for a *special job.* Thousands of auto owners insist on the French "Auto Special"—the dry-cell battery with the blue label. The green-labeled French Dry Battery is for household uses.

Get this Book

Send for our great free book. Describes over 100 uses of French Dry Cells—an education to any man or boy. Mail in the coupon below—it brings all the facts. Tells what French Dry Cells do; why they last longer and give better satisfaction than others. When you buy batteries insist on the *genuine French.* Your dealer will tell you the particular French Battery you need. Send that coupon *now.*

French Battery & Carbon Co.
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FRENCH BATTERY & CARBON CO.,
2 Inca Street, MADISON, WIS.

Gentlemen:—I am interested in electrifying my farm and would like to know how to do it at a low cost with French Dry Batteries.

Name _____

Address _____

R. F. D. _____ (5)

Dobry's Hog Remedies

POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd. Address John Dobry Mfg. Co., Cedar Rapids, Iowa.

CORN and COTTONSEED MEAL properly balanced makes finest ration for dairy cows and Beef Cattle. Our booklet, Science of Feeding, free on request. Write to headquarters for prices on best quality. Owl Brand. F. W. Brode & Co., Memphis, Tenn.

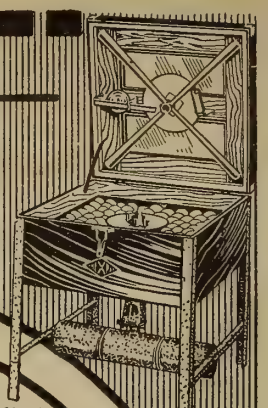
PATENTS that PAY $561,530 made by clients. Patent Book—"What & How to Invent—Proof of Fortunes in Patents" FREE. 112-p. Guide Free! E. E. VROOMAN, Patent Atty., 812 F St., Washington, D. C.

AGENTS PORTRAITS 35c. FRAMES 15c. Sheet Pictures 1c. Stereoscopes 25c. Views 1c. 30 days credit. Samples and catalog free. Consolidated Portrait Co., Dept. 4477, 1027 W. Adams St., Chicago.

W. H. WALTERS BRUCE, S. D., buys, rents and sells Brookings Co. farms, or will trade for pure-bred live stock.

The variable drop planter is all right, particularly for the field where the soil varies. The change of drop can be made without stopping the team, so more seed can be used on rich, bottom land and less over the knolls, where the soil is poorer. One has to keep his thinker working, though, to make the changes as the soil requires.

A New Principle—
Only 1 Gal. Oil to Hatch One Filling of Lamp



Saves Money!

Write today for new Free Book on X-Ray Incubators and Brooders. Learn everything about this time, labor and money-saving hatcher. It is shipped *direct* to you from factory. No agents—no dealers. Guaranteed to please you. Orders filled same day received. Freight prepaid *anywhere!*

THE X RAY

Just takes one gallon of oil to a hatch—one filling of the lamp. Old style machines use 3 to 5 gallons of oil to hatch and lamp has to be filled every day! The X-Ray incubator is built on an entirely new and different principle from the old style, wasteful machines. It has lamp *underneath*, square in the center, where it ought to be—and not on the side where no perfect temperature could possibly be maintained. With lamp underneath X-Ray's egg-chamber is always at even heat—always at a perfect hatching temperature. X-Ray's lid has two double-glass panels—thermometer can be seen every minute without raising top and chilling eggs.

X-RAY INCUBATOR

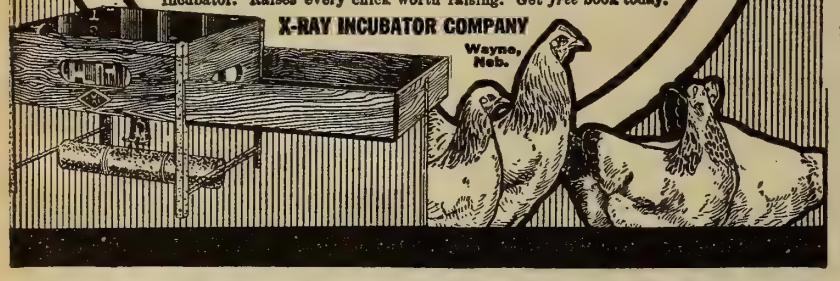
"Built Different From All Other Machines"

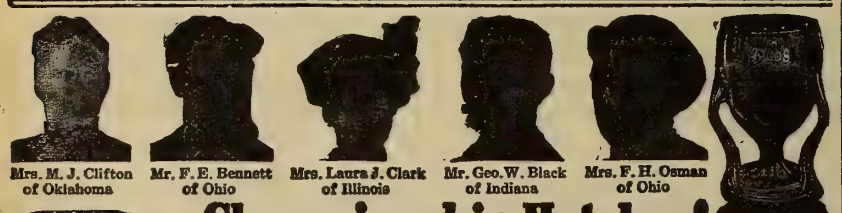
has only proven perfect heat regulator. Our automatic trip—an exclusive patented feature—cuts down flame at burner when egg-chamber gets too hot—a fine thing—a saving of lots of oil and money! No excess heat escapes—every bit is used to good advantage! To use the X-Ray means less egg-handling, less oil, less heat generated, absolutely no waste, no filling of lamp during hatch, no fumes, no danger of "cooking" eggs—always even heat over egg-chamber.

WRITE FOR FREE BOOK No. 41—Get Factory-Direct Price on X-Ray Incubators and Brooders

The X-Ray Brooder has same perfect heating system as the famous X-Ray Incubator. Raises every chick worth raising. Get *free* book today.

X-RAY INCUBATOR COMPANY
Wayne, Neb.





Mrs. M. J. Clifton of Oklahoma — Mr. F. E. Bennett of Ohio — Mrs. Laura J. Clark of Illinois — Mr. Geo. W. Black of Indiana — Mrs. F. H. Osman of Ohio

"Tycoon Cup"

Championship Hatches!—Let Jim Rohan And His World's Champions Tell You How to Get Them

LET me tell you how YOU can get World's Championship hatches—how YOU can beat every other incubator in your neighborhood—how YOU can make *more money* with *least expense* and *least effort*. Just write me a postal. I want to send you all the *facts*. I want to tell you about my 6-time World's Champion Belle City Incubator. I want to tell you how these champions won their prizes and how *you* can win a championship too. I will tell you how to make the wisest selection of an incubator and brooder, how to save the most money. I want to quote you a price on my 6 time World's Champion Belle City, that you will be *delighted* with. I'll tell you about my manufacturing, selling and shipping plan that makes my amazing low price possible. I want to tell you about my 1, 2 or 3 months' home test plan and my 10 year money back guarantee. Just write me. I'll tell you why my

World's Champion Belle City

is the most *consistent* winner of World's Champion hatching contests. How they beat others in tests of 10,000 hatches—beat machines costing from two to five times more. I want to tell you exactly how my Belle City is made—how they are different from all others; how I have embodied in them everything worth having *in* and *on* an incubator—the features that have made the Belle City the 6-time World's Championship Winner—features that made the U. S. Government a customer-also. And I want to tell you all about my brooder—the only Double Walled, Hot Water, top heat brooder made, guaranteed to raise largest percentage of chicks every time. If you want to be *sure* of greatest success hatching eggs and raising chicks write me a postal for all the facts I want to send you.

Jim Rohan, Pres.

1, 2 or 3 Months' Home Test

Now! Get My Low Price and Money-Back Offer

We Ship Quick from St. Paul, Kansas City, Buffalo or Racine Freight Prepaid

Write Me A Postal

I want to tell you how my machines are sold direct from factory—no agents, no middlemen—how I give you 3 months home test if you like—how I send them all freight prepaid and guaranteed for 10 years. All I ask is the chance to *prove* everything to you by sending you all the facts, figures and information. Whether you write to others or not, whether you buy of me or not, you ought to *read the news* I want to send you, in my big book of Hatching Facts. Won't you write me? Just say "Send World's Championship Hatching Facts."

Address me personally. **Jim Rohan, Pres.**
Belle City Incubator Co., Box 52, Racine, Wis.

Farmers Make Poultry Dollars

Poultry and eggs will bring large profits in 1913. Don't fail to get your share. Every farmer should consider how much this actually means to him.

CYPHERS INCUBATORS and BROODERS are selected—are used by farmers who demand "the best" in any tool. The World's Standard—in a class by themselves. Send for our big *Free Book*, "Profitable Poultry and Egg Production"—rich with vitally helpful poultry information.

Fire Proved: Insurable

Cyphers Incubator Company, Dept. 62, Buffalo, N.Y.

55 BREEDS Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Collie Dogs. Send 4c for large Poultry-book Incubator Catalog and Price List.
M.H. HINIKER, Box 32 Mankato, Minn.

Lice Proof Nests

Keep your hens happy and laying by keeping them free from profit-killing lice and mites with

KNUDSON Galvanized Steel Lice Proof Nests

These wonderful, sanitary, *patented* nests can't get out of order—last a life time and earn their cost many times over.

Regular price $3.90, set 6 nests—special introductory price $3.60; 3 sets (18 nests,) $10. Write for our *free* catalog, Gal. Steel Brood Coops, Runs, Chicken Feeders, etc. KNUDSON MFG. CO., Box 483 St. Joseph, Mo.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

CARE AND MANAGEMENT OF AN INCUBATOR.

To the Editor of The Homestead:

Success in the care and management of an incubator depends upon the disposition of the individual—a conscientious and careful person will look after this particular work with great interest and anticipation, realizing that as much depends upon the operator as upon the machine.

Each incubator put out has its own special rules for management, and these must be followed carefully. But there are suggestions which can be used by everyone in the general care of an incubator. For instance, to be particular about an even temperature of the room where the machine stands. There should not be too great a variation of temperature during the day and night, not necessarily warm, but holding an even temperature. A cellar, dry and well ventilated is one of the best places—the air is not too dry and the temperature is more even. A kitchen is a poor place as in the daytime it will be extra warm and at night it will be cool.

Having your machine well placed the most important thing of all is your thermometer. Be sure you have one of the best. It would be a good plan to have two and they could be tested by placing in machine or in warm water. If they do not agree have them retested by a competent person. Your thermometer must be accurate to half a degree. Having satisfied yourself that your thermometer is correct place it in your machine and test the egg chamber in every part. If this is heated evenly then place the thermometer in tray in proper position and when it reaches 102½ degrees arrange your damper and see if you can hold it there a day or two before placing the eggs.

Run your machine at 102½ degrees the first week, 103 degrees the second week and from 103 to 104 degrees the last week. The first week is very important. Here a little carelessness will likely produce a poor hatch.

The turning of the eggs twice a day is very necessary for well developed and strong chicks. A good plan is to take out the two front rows of eggs and then roll the rest of them forward placing the eggs taken out at the rear of the tray. Be careful in the turning to do it gently. The airing of the eggs once a day furnishes the developing chicks in the shell with necessary oxygen—a few minutes each day for the first three or four days, then increasing the time to five, ten, fifteen, twenty minutes as your instructions state. On the eighteenth day I have found it helpful to wring a flannel cloth out of hot water and place over the eggs at night, removing it in the morning. This helps to soften the shell.

When you see the first egg pipped close the door of the machine and leave closed until the hatch is over, opening the door reduces the temperature. When the twenty-first day is up open the machine and take out baby chicks and place in lined baskets on top of machine where they should be let alone for forty-two hours. Do not feed nor handle. Any eggs that are

Mrs. Horner Buries the Hatchet.

Dear Sir: "I noticed Mrs. Selberg's remarks in your recent issue, and if it will help others you may say, I have used Walker's Walko Remedy seven years. I used to have lots of trouble with Roup until I found this remedy. I have cured cases that were frightful, but I don't have any trouble any more; I give it right along as a preventive. If my birds catch cold or are exposed, I give a little in the drinking water and it stops it right away. I use it also for bowel trouble in little chicks—it's the best thing I ever saw. It prevents bowel trouble or white diarrhoea; makes them grow stronger and feather quicker." Readers can get it by sending 50c (M. O.) to the Walker Remedy Co., U. 3 Lamoni, Iowa.—Mrs. Lou Horner, Davis City, Iowa.—Adv.

Johnson's New Book

Shows You the SURE WAY to Chicken Profits

It tells what the Johnsons have learned by 17 years experience and by millions of letters received from their 400,000 customers. It's a home-made book—plain, practical and full of helpful hints. You will enjoy reading Johnson's 1913 book. It means money to you. Send for it now. Johnson's

Old Trusty

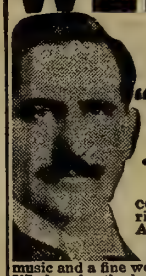
is the incubator that made artificial hatching a success for the masses. Sold direct from maker to user, price less than $10, freight prepaid East of Rockies, and that far if you live beyond. 30 to 90 days' trial, 10 year guarantee. Read the Old Trusty Book. It is worth $10 to anyone, but sent *free*. Address a postal now.

Over 400,000 in use—all sold after 30 to 90 days trial—all guaranteed for 10 years.

Less Than $10

JOHNSON *Incubator Man* Clay Center, Neb.

WEDDING BELLS!!



"Let Them Ring for You at Waterloo" —GALLOWAY

This is an offer to any young couple who is contemplating marriage. If you will come to the Galloway Agricultural Club in Waterloo and have the knot tied here, I will pay for the license, furnish the minister, flowers, music and a fine wedding dinner—all free! And listen—I'll also give the bride and groom a handsome present.

Let Me Entertain You

I want Farmers and their Families to visit me here at Waterloo. Come on over while you've got time for a vacation. I'll take care of you—free—at our splendid $60,000 Agricultural Club, planned and built for my Farmer Friends. Plenty to eat, music, good company—everything to make you enjoy life while here. Last week over 500 Farmers visited my big chain of factories. Many of them bought Engines, Spreaders, Cream Separators, etc., at a big saving, direct at factory prices. No obligation to buy, though. Just come and spend a day or a week, if you like, as my guest. I'll give you the time of your life.

Special 5% Discount!

If you cut out this "Ad" and bring it with you, I will give you a special 5% discount on your purchases while here. This will help pay your railroad fare. And remember, your expenses are paid while in Waterloo.

If You Can't Make the Trip Right Now, Write Me When to Expect You

WILLIAM GALLOWAY, Pres.
The William Galloway Company
10D Galloway Station, Waterloo, Iowa

Queen

The High Class Incubator Sold at a Fair Price

High prices and big claims are giving way before the Queen's record. You can't buy a better incubator at any price. The Queen applies hatching conditions correctly. Big hatches, chicks come out strong and vigorous. Machines costing $20 to $45 do no better work.

Save $10 to $12

Let me send you my Poultry Guide and Catalog to show you the 28 Special Queen Points—reasons why it's the best incubator that can be built. Built to last 25 years and sold on a money-back guarantee. Write any National Bank in Lincoln about my standing or dealings. Distributing houses in extreme East and West mean quick deliveries. Book free. Address

P. M. WICKSTRUM, Incubator Man
Box 10, Lincoln, Neb.

MEN WANTED IN AUTO BUSINESS

Big demand for trained men. Earn from $75.00 to $150.00 per month. Learn all about automobiles in six weeks by

THE "SWEENEY SYSTEM"

of practical experience. In our machine shop, garage and on the road you learn by actual experience how to repair, drive, demonstrate and sell automobiles.

FREE—Write today for catalog and certificate, entitling you to free $50 course in running traction engines—we own two tractors. Only auto school in the world teaching tractioneering. Send name today.

SWEENEY AUTO SCHOOL,
1301 Woodland Ave. Kansas City, Mo.

Latest Book "Profitable Poultry," 120 pages plain, practical facts, 160 beautiful half tones. Tells how you can succeed with poultry. Tells about big poultry farm. 45 pure-bred varieties. Lowest prices, fowls, eggs, incubators, etc., sent for 5 cents.
BERRY'S POULTRY FARM, Box 49 Clarinda, Ia.

PFILE'S 65 Varieties

LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box 621 Freeport, Ill.

left in tray which are pipped and alive, break the shell carefuly all around and pull out the head by the bill, replace in tray and close machine, leaving it for twelve hours and most of them will be good chicks.

Mark on a tag and tie to machine the day and hour you set it. It is a good plan to start it in the evening. Many things might be suggested but will trust to your common sense to help you out. Fresh eggs from vigorous birds are essential to a good hatch.

It is a good plan to keep a record each year of every hatch, the number of eggs set, number of infertile eggs, number of chicks hatched, temperature of incubator each week, etc., also number of chicks raised from each hatch with remarks peculiar to the hatch. Mrs. J. W. Williamson.

Polk county, Iowa.

SHIPPING HATCHING EGGS.

To the Editor of The Homestead:

Those who are going to make a business of selling eggs for hatching purposes will do well to get busy with their advertising long before the hatching season is upon them. If advertising is neglected until the season is at hand the breeder will find that many purchasers have booked their orders previously with some other breeder who believes in keeping his name before the people. By getting your own orders booked early you can better make your plans for the season. Everything should be ready before the shipping season arrives. All materials needed in shipping can be secured before hand and may save a delay.

I prefer to ship in baskets which hold two sittings. These can be bought for a few cents. In packing eggs the bottom of the basket is covered with excelsior and the same material is packed above the eggs and between each one. Each egg is individually wrapped in nice soft paper. The cover should be securely fastened on so that no curious person can take eggs out or muss the packing. Be careful about the packing, for it helps to impress the purchaser and aids the eggs to arrive in a vital condition without losing any of their fertility. Eggs which are poorly packed and have a hard journey usually hatch poorly. Is this the way the shipper wishes his eggs to turn out? Surely it is not a very good advertisement.

The most important thing is to produce just what is advertised and to always fill orders if at all possible. If a customer is once satisfied with your stock and methods he will continue to come to you as long as you treat him right. It usually happens that when a breeder has a good stock his neighbors get their birds of him and have a flock equal to his own. I am speaking of utility fowls rather than of show poultry. If orders cannot always be filled by the breeder often his neighbors, handling his stock, can help him out. This is better than disappointing the purchaser for he is liable to be in a hurry for the eggs and will never order again from a breeder who has failed him once. In all cases where the breeder gets help in this way on his orders they should receive his own personal attention both as to selection of the eggs and to packing. All packages sent out should bear a large label bearing not only the name of the purchaser, but that of the shipper also. If complaint is received from a customer that eggs were broken in transit they should be replaced at once. Never ship an egg which you would not use for your own hatching purposes. All oversized, undersized, misshapen and thin-shelled eggs should be disposed of for some other purpose. Eggs should never be shipped in a dirty state as there is nothing which will dissatisfy the purchaser right on the start like receiving filthy eggs and don't blame them. By a little care sittings can usually be selected which are uniform in size shape and color. Those are the kind that make an impression. Remember that a new customer will often order one sitting as a trial order and if he is satisfied with the eggs when he receives them will immediately order enough for an incubator sitting. The small order should never be despised.

C. J. Griffing.

ALFALFA A SOIL MISSIONARY.

There is no clover, vetch, cowpea, soy bean or grass worth growing where alfalfa will grow well. Of all forage plants alfalfa is easily queen. It makes the greatest weight of forage during the year. The forage is richer than almost any other, and more palatable. All animals thrive exceedingly eating alfalfa, either green or dry. As the old Roman author put it, "It is good for all manner of famished cattle whatever."

Alfalfa uses the whole of the soil, rooting deeply. It requires sowing only once in several years. It enriches soils more than any other clover. It has many virtues and not one fault save that it will not grow on impoverished soils nor on sour, cold or wet soils.

These very faults are made virtues because they cause men to think and study their soils and become better farmers and better men. The truth is that any soil that will not grow alfalfa is seriously deficient, and when it has been so ameliorated that alfalfa thrives on it the soil is fit for any crop whatever, save that it may be too full of nitrogen to grow oats or other grains with soft straw.

Alfalfa is a strongly perennial clover-like legume, having a large, deeply penetrating root and a top with many branching stems. It carries a small purple, greenish or yellow bloom, and the seeds are arranged in screw-like pods. It is a plant starting very early in the spring and capable of yielding two to six or eight crops in one year, three cuttings being commonly taken in Ohio, Illinois, Nebraska and Colorado, and more in regions to the southward.

No one knows the origin of alfalfa. It came to Europe through the Persians and was highly esteemed by the ancients. It has long been cultivated in Europe under the name of "lucerne" and is today held in the highest esteem of any legume in France, Italy and some other countries with soil and climate adapted to its culture.

Though it has been grown many centuries, it is only within recent years that it has been well understood, so that today its culture is

Let Neubert Save You $50.00
On the Best Hatcher Ever Turned Out of Any Factory

Took me 19 years to make the Triumph perfect. Now it can't be equalled. Let me *prove* it. Send name for my great book. I'll tell you about features that make successful poultry raising *easy* for *anyone*. My price for the

1913 TRIUMPH

saves you $5.00. Walls made of Redwood, Basswood, air space, asbestos, 3 layers of 3-ply building felt—heavy copper heating tank with galvanized *hot air* attachment to save *all* the heat, double acting regulator—automatic ventilation. Best thermometer, strongest egg trays, roomy nursery, egg tester—all complete, ready to run. Mail postal now—the book—before you spend a cent for *any* incubator or brooder. Address

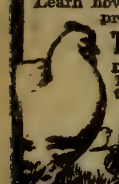
R. F. NEUBERT
Box 167 Mankato, Minnesota

Keep them Alive—

What's the use of hatching a big lot of chicks and then losing 60 per cent through neglect and disease. Learn how to cure and prevent all poultry diseases

The Kellerstrass Way

Don't be afraid of White Diarrhoea, Kellerstrass' Remedy stops it quickly. Sold in 25c, 50c, and $1.00 sizes. If your dealer cannot supply you send direct to us. Get the Kellerstrass Book telling HOW TO MAKE MONEY IN POULTRY. FREE How to start; how to select layers; what to feed; what to do for sick chicks and old birds.



ROYAL MFG. & IMPT. CO.
205 Royal Bldg., Kansas City, Mo.

15 Years on The Market

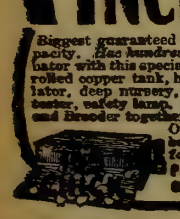
GERMOZONE

GEO. H. LEE'S Great Poultry Remedy

It tones the system, regulates the bowels, keeps chicks and fowls in fine condition. The best remedy for *Roup, Colds, Canker, Swelled Head, Cholera, Bowel Complaint, etc.* Actual figures show it reduces chick losses 90 per cent. Given in drinking water—no trouble. Price 50 cts. Lee's Egg Maker should be used by all poultrymen. Large protein, every ounce digestible. Brings eggs, makes chicks thrive. Lee's Lice Killer is sure death to vermin. Paint on roosts; it kills by fumes. Does not harm fowls. Lee's Sure poultry books (2) free. Address

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

$7.35 FOR BIG 155 EGG INCUBATOR



Biggest guaranteed incubator at price—155 egg capacity. *Has hundreds of dead air cells*—only incubator with this special construction—well made—cold rolled copper tank, hot water heat, double disc regulator, deep nursery, high legs, double doors, egg tester, safety lamp. Special price $7.35. Incubator and Brooder together $8.35. Frt. pd. E. of Rockies. Order direct from this ad (money back if dissatisfied) or send today for our interesting big free book.

PROGRESSIVE INCUBATOR CO.
Box 127 Racine, Wis.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

F. K. REMEDY CO., 700 2d St. Arkansas City, Kan.

50 Best Paying Varieties Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at Low Prices. Send 4c. for my Book which gives reliable information worth many dollars to you

W. A. WEBER, Box 930 Mankato, Minn.

Extra Eggs Laid and Extra Chicks Raised mean Extra Profits

This statement requires no argument! Now plan your work to get *more eggs*, hatch *more* and *better chicks*, carry *more chicks to maturity* without additional equipment or labor. In other words, *increase the efficiency of your entire plant.* You can do it easily. This is the way:—Give

Pratts Poultry Regulator

to your breeding stock. It will invigorate the birds, bring more eggs with better fertility. That means bigger batches of husky chicks. Put

Pratts White Diarrhea Remedy

in the drinking water for all broods to control this destructive disease and other bowel troubles. Then feed

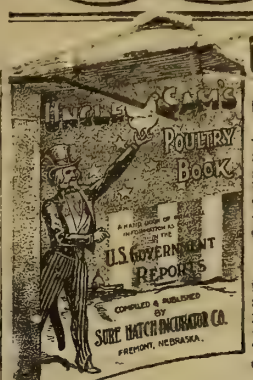
Pratts Baby Chick Food

and watch the youngsters grow! It will raise every good chick, and a lot of the weak ones and make them husky and vigorous. Use this combination for better results. Remember

"Your money back if it fails"

Prices: Regulator, 25c to $9; 25-lb. Pails, $2.50; White Diarrhea Remedy, 25c, 50c; Baby Chick Food, 25c up. Pratts 160-page poultry book 4c by mail. Get Pratts Profit-sharing Booklet. Our products are sold by dealers everywhere, or

PRATT FOOD COMPANY
Philadelphia
Chicago



HOW TO SUCCEED WITH CHICKENS

is plainly and completely told in

UNCLE SAM'S POULTRY BOOK

A complete guide to poultry culture written by government experts. Worth $10.00 to you and sold for only 20 cents, and by our plan you can get 50 cents back. Send 10 2-cent stamps or 2 dimes today for it. You can get it only from us. Uncle Sam says to use an incubator to get the most satisfactory results and

THE SURE HATCH INCUBATOR

60 Days Free Trial

is the only one built as he says an incubator should be made. Heavy, strong, of best material and modern features not found in any other machine. Complete control of heat. *Hatches Chicks that Live. Guaranteed five years.* Freight paid. Big catalog free. Send for it today and get your chicks onto the high-priced market. Chickens and eggs will be higher the coming season than you have known.

SURE HATCH INCUBATOR CO., Box 16 Fremont, Nebraska

WHY INCUBATOR CHICKS DIE.

THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The ause and tells of a cure. **Book Absolutely Free for the Names.**

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA.

125 Egg Incubator and Brooder both For $10

Why pay more than our price? If ordered together we send both machines for only $10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay.

WISCONSIN INCUBATOR CO., Box 119, Racine, Wis.

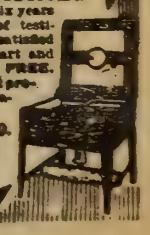
RAYO

The Oil Saving Toil Saving INCUBATOR

Saves three fourths the oil and nearly all hatching work. **Stop** burning 3 to 5 gallons to a hatch—the Rayo uses **one**. Quit being a drudge with old-style, lamp-on-the-side machines. Fill Rayo oil tank **once**—the Rayo completes hatch without trouble, muss or worry. *Simple—economical.*

One Gallon to a Hatch
One Filling to a Hatch

See eggs and thermometer thru double glass top, which raises for airing, cleaning and turning eggs. Lamp under egg chamber gives perfect radiation. Double-wafer thermostat acts on flame—produces exact heat needed, none thrown away. Automatic ventilation. Turns eggs semi-automatically, without touching tray. Clean lamp without removing chimney or tank. Oil tank holds 5 quarts, month's supply. Strong redwood case; covered with steel, enameled like mahogany, making it fireproof and handsome. Hatches every fertile egg. Six years on the market—thousands of testimonials from enthusiastic, satisfied users. RAYO hatching chart and $1.50 Tycos hygrometer FREE. Low direct prices—freight prepaid. Ask for Free Catalogue No. 13.



RAYO INCUBATOR CO.
942 So. 13th St.
OMAHA, NEB.

being more rapidly extended in parts of Europe than ever before. I saw its introduction pushed in Denmark and listened with pleased interest to accounts of its virtues and needs, "that the soil be well drained, that it have lime enough and inoculation."

The Spanish people brought alfalfa to the New World from Chile; it came to California, whence it spread to Utah, Colorado, Kansas and the East. Our grandfathers grew it, too, in a small way, bringing seed from France and England and some few spots such as the limestone region about Onondago county, N. Y., grew it for many years, as did a few farmers in Virginia and elsewhere.—[Joseph E. Wing, in "Meadows and Pastures."

POINTERS.

—Eggs from pure-bred White Plymouth Rocks are advertised for sale by Mrs. E. E. Johnson, Milo, Iowa.

—A. B. Summerville, Monroe, Iowa, is prepared to supply our readers with Toulouse geese eggs. See advertisement in this department.

—Choice Crystal White Orpington cockerels and pullets are advertised for sale elsewhere in this paper by J. H. Hartshorn, Traer, Iowa.

—Rose Comb Brown Leghorn eggs are offered for sale by George E. Banton, Epworth, Iowa, elsewhere in this department of The Homestead.

—Mrs. J. E. Baxter, Walnut Grove, [illegible]moth White Holland turkeys, Minn., has Many. Her advertisement appears elsewhere in this department.

—B. M. Hall, Ellsworth, Iowa, quotes prices on Single Comb Buff Orpington eggs and Pekin duck eggs in his advertisement elsewhere in this department.

—S. F. Battels, Indianola, Iowa, quotes prices on Single Comb Rhode Island Red eggs in his advertisement appearing elsewhere in this paper.

—Mrs. J. N. Cooper, Route 2, Red Oak, Iowa, is offering Cornish Indian cockerels and hens for sale in her advertisement appearing elsewhere in this department.

—Edward Meyer, Dyersville, Ia., breeder of high-class Partridge Wyandottes, has taken some more prizes at Bellevue in strong competition. He won first on cock, first and second on hen, first and second on pullet and first on hen. He writes that he has a fine flock of Partridge Wyandottes and still has some fine cockerels and pullets for sale.

—If wanting to purchase Single Comb White Leghorn cockerels read the advertisement of the Power Creek Farm, Treynor, Iowa, appearing elsewhere in this department.

—A few Barred Plymouth Rock cockerels are offered for sale at a very moderate price by Mrs. S. W. Miller, Truro, Iowa, in her advertisement appearing elsewhere in this department.

—Fertility tested Single Comb Minorca eggs from an ideal laying strain are offered for sale by C. G. Dake, Epworth, Iowa, in his advertisement appearing elsewhere in this department.

—We wish to direct the attention of our readers to the advertisement that appears elsewhere in this paper of B. W. Eckels, Nevada, Iowa, offering White Plymouth Rock eggs for sale.

—Extra heavy-boned Barred Plymouth Rock cockerels are advertised for sale by M. A. Easthouse, Hartley, Iowa, elsewhere in this department. Mr. Easthouse is also quoting prices on eggs.

—Mrs. S. S. Hunzeker, Steinauer, Neb., wishes Homestead readers, as per advertisement elsewhere in this issue, to send their orders to her for Black Langshan and Single Comb Brown Leghorn eggs.

The advertisement of Mrs. F. B. Dann, DeWitt, Iowa, offering Rose Comb Rhode Island Red cockerels and Mammoth Bronze turkey hens and toms for sale, will be found elsewhere in this department.

—Steve Morlan, Plano, Iowa, is offering Mammoth Bronze turkey toms, pullets and eggs and Buff and White Orpington cockerels and eggs for sale in his advertisement found elsewhere in this department.

—Choice eggs from Rose Comb Silver Laced Wyandottes from a good laying strain are advertised for sale by Mrs. Frank Hoffman, Birmingham, Iowa. Her advertisement will be found elsewhere in this department.

—Prices on Barred Plymouth Rock eggs from large, well-barred birds and of a good laying strain are named in the advertisement of Mrs. J. H. Heilman, Holstein, Iowa, that appears elsewhere in this paper.

—We desire to call the attention of Homestead readers to the advertisement of H. P. Myers, Murray, Iowa, that appears elsewhere in this department. He has eggs from high-scoring Black Langshans and Buff Plymouth Rock chickens for sale.

—In changing advertisement appearing elsewhere in this department from stock to Single Comb White Orpington and Barred Rock eggs for sale, Mrs. J. A. Campbell, Manning, Iowa, mentions the fact that The Homestead made her good sales of stock.

—The Barred Rock cockerels advertised for sale by the Hawkeye Poultry Yards, Mount Pleasant, Iowa, elsewhere in this paper, will weigh from eight to nine pounds and were sired by a twelve-pound cock. They are strong, lusty, big boned and nicely marked.

—E. S. Dyas, Bellevue, Iowa, in furnishing copy for advertisement found elsewhere in this department, writes: "Let me know in writing how many and what sort of birds you are needing. I can give some bargains in Wyandotte cockerels and guarantee satisfaction."

—John W. Houselog, Bellevue, Iowa, is making a big reduction in prices on his cockerels, considering the quality he is offering. He needs the room to mate his breeding birds for the egg season, so has decided to give Homestead readers this large reduction while they last. Order at once. See his advertisement on this page.

—R. B. Rowe, Indianola, Iowa, in furnishing copy for advertisement offering Buff Wyandotte eggs for sale, found elsewhere in this department, writes that he has three fine pens and one range flock from which he can furnish eggs. His pens and flock are headed by cocks and cockerels scoring an average of better than 92 per cent, and the hens and pullets are just as good.

—The 20th Century Hatchery, Chatfield, Ohio, is again advertising day-old chicks of four varieties, good pure-bred stock, for sale elsewhere in this department. They have been in the business for the last fourteen years and have shipped chicks all over the United States. They will have a 40,000-egg capacity for this season. Their catalog is free. Write them if in the market for chicks.

—In furnishing copy for advertisement found elsewhere in this department, Mrs. L. A. Catlin, Roseville, Ill., writes: "I won eleven ribbons and two silver cups on my Black Langshans at the poultry show at Monmouth, Ill., January, 1913. I also won three firsts and silver cup for the ten best birds in the Asiatic class and silver cup for the best cock, cockerel, hen and pullet at the Warren County Show."

—In furnishing copy for her new advertisement found elsewhere in this department, Mrs. W. F. Prather, Atlantic, Iowa, writes: "I exhibited my birds at some of the poultry shows this season. I won first on pen, first and second on cockerel, first on pullet and second and third on hen. My free range flock is headed by high-scoring male birds, some of them prize winners. My hens are excellent layers as well as show winners."

—Under the proper headings in this department Rahn & Son, Clarinda, Ia., are advertising White Runner duck breeding stock, Buff Orpington duck eggs, Partridge Rock and White Wyandotte chicken eggs. In furnishing copy for their advertisement they write: "On White Wyandottes we won first on cockerel; second, third and fifth on pullet at Des Moines; second and fifth on pullet at Sioux City State Show; first on cock; first on cockerel; first, second and third on hen; first and fourth on pullet, and first on pen at Clarinda, Iowa. We also won silver cup for highest scoring ten on solid colored birds and cup for highest scoring ten in show. Our Parti Rocks were heavy winners at Villisca and Clarinda, Iowa. We have the best White Runner and Buff Orpington ducks we ever raised and we are ready to ship eggs now, as our pens are all mated."

—Ivory White Poultry Farm, Greene, Iowa, has for sale twenty cockerels of each of the following breeds: White Plymouth Rock, Single Comb Orpingtons and Rose Comb Leghorns. Some of the best poultry fanciers in the vicinity of Greene are connected with the Ivory White Poultry Farm and they have had winners at the leading poultry shows in Iowa during the past few weeks. They can please you in prices and quality. See their advertisement elsewhere.

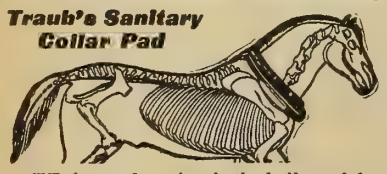
The above is an illustration of pullet No. 27, owned by Frank Faha, Jr. This pullet has a laying record of 232 eggs in one year. Mr. Faha's pens this year will consist of nothing but the best that time and money will produce. In furnishing copy for his advertisement Mr. Faha writes us he has fifty pens of well-mated breeders to sell at $10 per pen. We advise our readers who are interested in Silver Laced Wyandottes to take advantage of this offer.

INCREASE YOUR CROP
8 to 15 Bushels to Acre

The Brillion Clod Crusher will increase your yield from 8 to 15 bushels per acre. It crushes, pulverizes, rolls, levels and packs the soil. Makes a perfect seed bed which retains all the moisture a few inches below the surface. Free booklet tells all. Write today.

MOLINE PLOW CO.,
Dept. 406, Moline, Ill.
Kansas Moline Plow Co.,
Dept. 404, Kansas City, Mo.

Traub's Sanitary Collar Pad



SEE that pad resting in the hollow of the shoulder; the old-fashioned pad does not fit the collar to the neck. Traub's sanitary collar pad fits snugly to the collar bone, thus distributing the draft equally. It is filled with granulated cork and will not get hard. It is the lightest and coolest pad made. It will prevent sore shoulders and sweeny. Don't fail to write for circulars explaining this wonderful invention at once.

Traub's Sanitary Collar Pad Co., Mackinaw, Ill.

MISSISSIPPI

FOR SALE—3,555 acres of good hill cotton land, now in successful operation; well supplied with good negro labor. The plantation lies between two branches of the Illinois Central R. R.; nearest shipping point 4 miles from the dwelling. The land corners within ¼ mile of the shipping point. A sufficiency of cabins for tenants, stables, cribs, cotton bins, and all outhouses; 36 head of mules and horses, cows, farming implements and feed stuffs. Price very low; terms good. Address A. C. LEIGH, Grenada, Mississippi, bona fide owner.

Virginia Farms and Homes

FREE CATALOG OF SPLENDID BARGAINS
R. B. CHAFFIN & CO., Inc., Richmond, Va.

Columbian Stock Powder

GUARANTEED to be all right and in good condition; am closing out 100-lb. keg, $5; 250-lb. barrel $11. Booklet free. E. E. Arnold, Sandwich, Ill.

ORWIG & BAIR

Crocker Building, Des Moines, Iowa

ORPINGTONS.

MAPLE RIDGE POULTRY FARMS Breeders of B and W. P. Rocks, S. C. W. Orpington, W. and P. Wyandottes, R. C. R. I. Reds, B. C. bantams. P. and I. R. ducks, M. B. turkeys. Splendid lot youngsters ready for winter shows or breeders. Satisfaction guaranteed. Write J. W. Mowery & Sons, R. 2, Hedrick, Iowa.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 for 100; Utility flock $5 for 100 Book orders early. V. H. Conner, Shell Rock, Iowa

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

50 S. C. Buff Orpington ckls. Fine, large birds of exhibition color and solid buff wings. $2 to $5 each. Address Dan McCarty, Winthrop, Iowa.

25 S. C. WHITE Orpington ckls. of the Kellerstrass strain for sale at bargain prices. Address M. D. Korns, Hartwick, Ia.

Choice Crystal White Single Comb Orpington Ckls. Kellerstrass strain. H. A. Hamilton, Yutan, Neb.

CRYSTAL WHITES direct from Kellerstrass ckls. $2, $3, $5. Trios and pens. Eggs, $8 per 100. Also S. C. Buffs. Orpington Farm, Big Rock, Ill.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, light scoring, 13, $2; 35, $4; 100, $10. Address B. M. HALL, Ellsworth, Ia.

EGGS S. C. Buff Orpington, 4 club specials, 16 prizes Prices $5, $4, $3, $2, and utility pen at $1 Mating list ready. E. N. Silker, Epworth, Iowa

BRAHMAS.

LIGHT BRAHMA COCKERELS

THEY have heavy bone and good markings. Have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address FRANK P. HEALY Bedford, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

BABY CHICKS.

BABY CHICKS. Baby chicks and eggs for hatching from 10 varieties of vigorous, farm-ranged birds. Our mammoth coal-heated incubator is the largest in Nebraska. Maplewood Poultry Farm, Exeter, Neb.

Baby Chicks 4 varieties, all pure bred stock. Price 8c to 11c each. Catalog free. 20th Century Hatchery, Dept. A, Chatfield, Ohio.

CORNISH GAME.

FOR SALE Cornish Indian ckls. and hens. Prices right. Eggs in season. MRS. J. N. COOPER, R. 2, Red Oak, Iowa.

GUINEAS.

White Guineas $3.00 pair. They do not stray. Easily raised. Address Ethel H. Shaw, - Monroe, Iowa.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls, and pullets for sale. W. W. Vaughn, Marion, Iowa.

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BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

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Breeder of GOLDEN AND SILVER LACED WYANDOTTES, high-class Indianola, Iowa. 20 miles south of Des Moines.

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SCORED and utility stock. Also white Holland Turkeys. Eggs in season. Address A. J. MENEFEE, ADAIR, IOWA.

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MY great laying strain, 50 hens and pullets for sale. 1 yearling cock bird and a few good cockerels. Can mate up pairs, trios and pens to please. Place orders for eggs now. S. HARR, Riverside, Iowa.

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LARGE size and extra heavy bone with that deep blue barring, not brassy; sired by high-scoring ckls. weighing 10 to 12 lbs; from hens and pullets weighing 7½ to 11 lbs. Price $2 to $5 each. Eggs, 15 $1.50; 30, $2.25. M. A. Easthouse, Hartley, O'Brien Co., Ia.

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Ckls. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

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EXCLUSIVELY
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Score Card by Shellabarger
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YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city.
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FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

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Eggs from Mammoth White Pekin Ducks HEADED by drakes scoring 97, 97¾. Won blue ribbon at Oswego, Kansas, poultry show, 1912. $2 for 13; $4 for 30; $6 for 60; $10 for 100. Address **JOHN M. HALL, - Williams, Iowa.**

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Genuine English Walton white egg Runners. Ideal duck for farmers. Send for leaflet. E. D. Alkire, Dallas Center, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 15, $1.50; 25, $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

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HIGH-class puppies, the **best blood** in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead.
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SCOTTISH terriers—the best little rat, watch and pet dog on earth from puppies to grown dogs for sale. Can mate up pairs to please. Do not write me unless you mean business and are willing to pay a fair price for a great little dog. Have no $3 dogs for sale. Write your wants plainly in first letter, please.
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TOMS 23 to 26 pounds $5 and $6. B. P. Rock cockerels 7½ pounds $1.50 each; 8 pounds $2 each; 9 pounds $2.50 to $3.00 each; 9½ to 10 pound $4.00 each Weights guaranteed. M. V. Leeper, Redfield, Iowa.

EGGS, 63c a dozen. You can get premium prices in any market if you'll read "Poultrology" and learn how Yesterlaid Egg Farms produce and market their eggs. 144 pages—70 pictures. Get one now. Edition limited. Yesterlaid Egg Farms, Dept. 46, Pacific, Mo.

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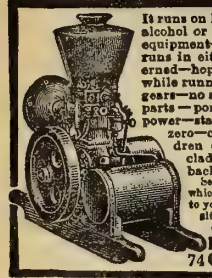

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Cutting and Curing Pork.

PORK is unlike beef and mutton in that it should be cut just as soon as it is cooled through. If the carcass (Fig. 1) has not been split to aid quick cooling it should be laid on the block and the head removed an inch back of the ears.

Next remove the shoulder between the fourth and fifth rib and cut off the

FIG. 1.
Carcass of pork—head, shoulders, middle.

hams about two inches in front of the pelvic bone. Split the hams and trim to a smooth rounded piece (Fig. 2.) The feet may be removed at the hock joints, but sawing them off a couple of inches above the hock is recommended, as the hams will then pack much closer in the barrel. Split the

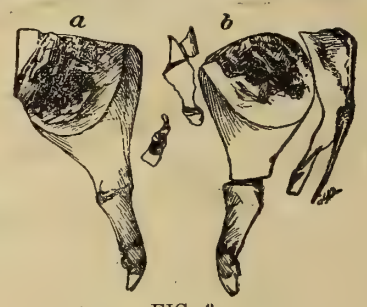

FIG. 2.
Trimmed and untrimmed.

middle piece with a saw or ax and remove the leaf if this was not done when the hog was dressed. This may be easily accomplished by starting the leaf at the front end and peeling it backward with the fingers. The kidneys come out with the fat. Take the loin (Fig. 3a) and spareribs, leaving the lean meat found along the back of the loin, which may be used fresh as chops or for roasting. When cutting the meat from the ribs, the separation should be made as close to the ribs as possible. This much improves the quality of the bacon. Cut the side lengthwise into three evenly sized strips, or if to be cured and smoked, into two pieces, the upper one-third (called the back strip) for salt pork or lard, and the lower two-thirds (called the bacon strip) for bacon. The edges should always be trimmed

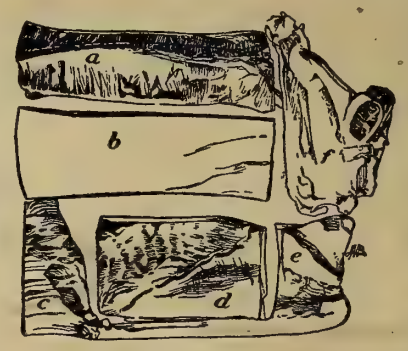

FIG. 3.
Side cuts of pork; a, loin; b, fatback; c, spareribs; d, bacon strip; e, trimmings; f, leaf.

up square, and all scraggy parts used for sausage or lard. Take the ribs and neck bones out of the shoulder and trim it down to the top of the shoulder blade. Trim off all bloody spots and neck meat. Remove the foot above the knee joint. Split the head through the center and then into quarters. On heavy hogs the jowls are often removed for salting before the head is split. The hams, shoulders, and bacon strip may be cured and smoked, the loin cut into

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An Appeal to the Farmers of America

The farmers who grow sugar beets and the manufacturers who make beet sugar publish the following facts about this industry in order to enlist the public's support in favor of retaining the present tariff on sugar. Read every word of this message! It is important to you—and your children—and to the millions of Americans who are interested in agriculture and its dependent industries. This is a fight between the *trusts* and the people. *We are with the people*—and we want the people to be with us—we want *your* co-operation and support. Read the rest of this message *now*—then *act promptly.*

The ***Sugar Trust,*** in combination with a few other big importers, seeks to have the tariff on sugar *removed*—with a view to crushing the beet sugar industry of America—their only competition. The sugar importers send millions of American money abroad every year for sugar—the beet sugar industry keeps the money at home, benefiting thousands of American farmers, coal miners, machinists and workingmen in many different lines. Removing the tariff will only *benefit the Trust and the big importers*—it *will not permanently* lower the price of sugar—no more than did the removal of the tariff on coffee reduce the price of coffee. It will cut the government's revenue enormously and crush a great and rapidly growing American industry that gives employment and support to thousands of American farmers, workingmen and business men.

Here are the facts tersely told in eight short paragraphs. Read them carefully and thoughtfully, then fill out and mail the coupon below—today—*now.*

1. **All Agitation for a Lower Tariff on Sugar Originated with the Importers of Foreign Sugar.** There are only three large importing interests in the United States, of which **the Sugar Trust dominates.** They handle three hundred million dollars' worth of sugar annually and fear that the further development of the home beet sugar industry will destroy their **monopoly.**

2. **These Importers Wish to Prevent Further Development of the Home Beet Sugar Industry** because home produced **beet sugar is their only competition** and the only sugar which does not pass through their hands and from which they cannot **exact toll from the American consumer.**

3. **The present tariff on sugar is a large revenue producer for the government and therefore decreases direct taxes.** Its net effect on the consumer amounts to only **14 cents a year per capita.** To reduce this tariff means perpetuating the **monopoly of the importing sugar refiners.** To retain the present tariff means the further development of the home beet sugar industry, and, ultimately, cheaper sugar.

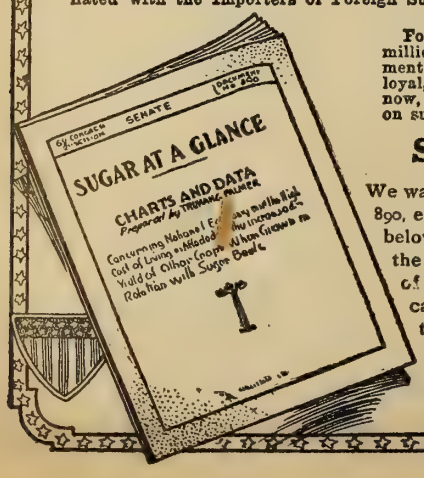
4. **The Tariff Is no Burden to the Consumer,** because the price of sugar is lower in the United States than in most other countries, and because 40 per cent of the sugar consumed is used in the manufacture of candy, confections, chewing gum, condensed milk, etc., the retail price of which would not be affected by any decline in the price of sugar. Reducing the tariff would reduce the government revenue without any gain to the consumer.

5. **Beet Sugar Production Can Be Developed to Supply the Entire Demand of This Country.** It increased 1500 per cent since the present tariff was enacted in 1897. There are now seventy-two beet sugar factories in the United States, located in sixteen states, extending from Ohio to California, and owned by thirty-nine independent concerns. These factories represent an investment of eighty million dollars and produce over twelve hundred million pounds of sugar, or about one-sixth of the total consumption in the United States. The production of beet sugar benefits the farmers, the workingmen, the coal miners, the machine shops and the railroads.

6. **The Price of Sugar Has Steadily Decreased Since the Advent of Beet Sugar.** Further development will reduce the cost of manufacture and further reduce the price of sugar to the consumer, and will retain in this country immense sums of money that are now sent abroad for the purchase of foreign sugar.

7. **Beet Sugar Is the Same Substance as Cane Sugar.** It has the same amount of sweetness as cane sugar and can be used for all purposes. Dr. Wiley, while chief of the United States Bureau of Chemistry, declared that there is no distinguishable difference of any kind between refined beet sugar and refined cane sugar.

8. **Beet Sugar Industry Needs Tariff Protection.** Because it is only partly developed and because farm and factory wages in all other sugar producing countries are less than one-half of the wages for the same work in this country.



For your own present and future welfare—for the welfare of the millions of hard-working farmers—for the upbuilding and encouragement of American agriculture and American industries, you, as a loyal, home-loving citizen of the United States, should, right here and now, enter your most vigorous protest against a reduction of tariff on sugar.

Send Now For This Free Book

We want to send you, FREE, a copy of U. S. Senate Document No. 890, entitled "Sugar at a Glance." Just fill out and mail the coupon below and the book will be sent you free. This book gives you all the facts about sugar and tells how you can increase the fertility of your land by growing sugar beets. You can then judge the case clearly and help to build up the beet sugar industry of the United States by following the plan outlined to you. Fill out and mail the coupon NOW before it gets lost.

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Truman G. Palmer,
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The best evidence as to whether or not the Mimbres Valley is the best place for you is whether it has proven to be the best for others! Talk with every farmer in this section and all of them would say: "Deming and the

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cannot be beat!" They have mighty good reason to say this. With a smaller investment, they are making twice as much per acre as you are; they are sure of their crops because they control their water supply, getting water just when needed and just as much as needed. Their soil is rich, silt, easily worked, and level—unleached by rains. Their climate provides nine full months growing weather, making two and three crops a year practicable. They are living in a climate so famous for health that hundreds come here each year just to get well. They are getting tip top prices for their products from the mining and railroad centers all around; and best of all, these prices will stay high for the reason that land suitable for farming is strictly limited while the development of mining industries here is unlimited!

That is what makes the opportunity here so great now. Land prices, considering earning power, are ridiculously low simply because it was only a few years ago that the agricultural possibilities of this section were known; but with this farming area so limited in extent and with hundreds of people coming in every year, you can figure how quickly land prices are going up. A man must act at once! Right now a personally owned water right here (pumping irrigation plant) costs less than half what a Government or corporation controlled water right costs elsewhere!

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chops or roasts, as in mutton, and used fresh. All lean trimmings are made into sausages and fat trimmings into lard. The feet, snout, and ears are pickled and the head boiled for head-cheese.

If it is not intended to use the side pork as bacon, it is advisable to cut it into smaller pieces, as it packs closer in the barrel.

When the meat is cooled, rub each piece with salt and allow it to drain overnight. Then pack it in a barrel with the hams and shoulders in the bottom, using the strips of bacon to fill in between or to put on top. Weigh out for each 100 pounds of meat eight pounds of salt, two pounds of brown sugar, and two ounces of saltpeter. Dissolve all in four gallons of water, and cover the meat with the brine. For summer use it will be safest to boil the brine before using. In that case it should be thoroughly cooled before it is used. For winter curing it is necessary to boil the brine. Bacon strips should remain in this brine four to six weeks; hams six to eight weeks. This is a standard recipe and has given the best of satisfaction. Hams and bacon cured in the spring will keep right through the summer after they are smoked. The meat will be sweet and palatable if it is properly smoked, and the flavor will be good.

In order to dry cure pork, for each 100 pounds of meat weigh out five pounds of salt, two pounds of granulated sugar, and two ounces of saltpeter, and mix them thoroughly. Rub the meat once every three days with a third of the mixture. While the meat is curing it is best to have it packed in a barrel or tight box. For the sake of convenience it is advisable to have two barrels, and to transfer the meat from one to the other each time it is rubbed. After the last rubbing the meat should lie in the barrel for a week or ten days, when it will be cured and ready to smoke. To cure nicely it is desirable to have a cool and rather moist place in which to keep it.

This recipe should not be used where the meat must be kept in a warm and dry place, as the preservatives will not penetrate easily and uniformly.—[Andrew Boss in Farmers' Bulletin.

MILLIONS FOR ROADS.

Kansas will have $5,250,000 available for highway improvements and new bridges this year, and one of the big tasks of the legislature is to appropriate this money to do the most good. Last year the state spent $4,975,000 for good roads and bridges. There is no way to tell now how much of this was wasted. Under the Hodges Road Law, enacted two years ago, there was some system in the road work. The legislature is planning to extend the system and make every dollar in the road fund do at least ninety cents worth of work, instead of about sixty cents or less, as was the case before the Hodges law went into effect.

"The only way to build roads is for the county to start with a general road plan with the county seat and market towns as the centers, and build roads to radiate from them," Senator Paul Klein, chairman of the committee on roads says:

"The old idea of building a good road for a few miles in one township and then skipping two or three miles and build some more good road is a waste of money. Half the good roads are not connected with each other. If Kansas had started out twenty years ago spending its money on a systematic plan for roads, instead of a hit-or-miss proposition, the state would now have the finest system of improved roads in the country.

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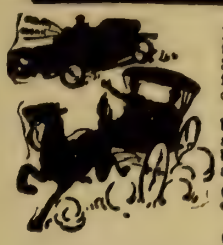

This book, by Prof. Jesse Beery, "King of Horse Trainers and Horse Tamers," tells the thrilling story of his eventful career; points the way to success as a practical Horse Trainer; explains the Beery System; gives many examples of men who are now repeating the very feats with which the great horseman won the applause of vast audiences throughout the United States.

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A. L. Dickenson, Friendship, N. Y., writes: "I am working a pair of horses that cleaned out several different men. I got them and gave them a few lessons and have been offered $400 for the pair. I bought them for $110."

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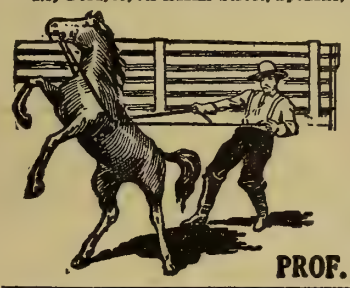
Roy Fordyce, 041 Adams Street, Spokane, Wash., says: "I am delighted with your teachings. Have trained a 3-year-old stallion to drive without a bridle or lines. I would recommend your system unqualifiedly to anyone."



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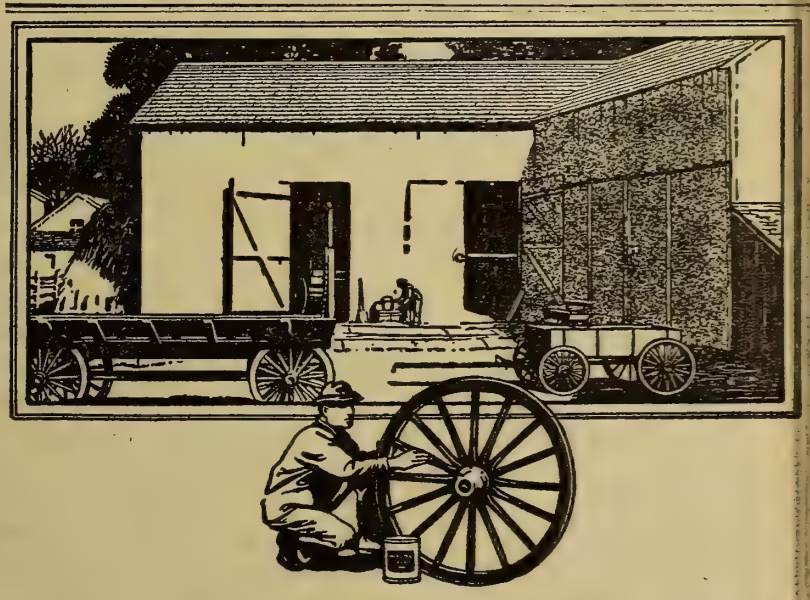

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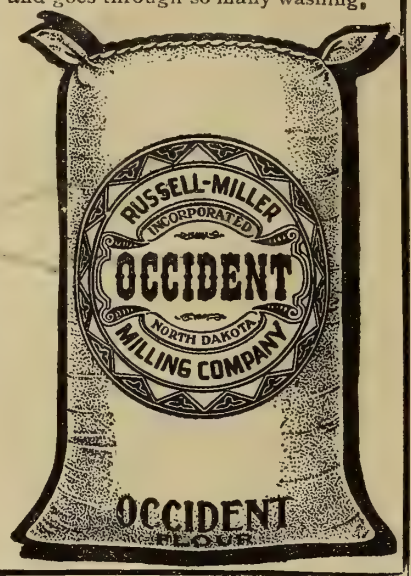

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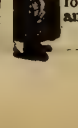

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THE HOME

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WITH THE EDITOR.

The incidents which follow are actual facts, observed or reported by persons whose veracity is undoubted. That the ways of parents with their children are sometimes praiseworthy, sometimes blameworthy, is easy to see.

As he came through the open door tugging a big basket of chips and cobs Bobby proudly said, "I filled the basket as full as I could." Glancing up from her work of cutting cookies Bobbie's mother repressed an exclamation of displeasure. The child was making a track of litter from the door to woodbox. What she said was: "I see you did, son. Next time I wouldn't fill it quite so full if I were you. Better get the brush and dust pan before you wash your hands—and then come and have some cookies. I sugared the tops of some on purpose for you."

"Come here, you dirty little thing! Come here, I say!" As she spoke the angry mother swooped down upon the shrinking child, slapped her sharply on the face and shoulders, then shook her violently and jerked her upon a chair, saying as she did so, "Not an hour since I put that clean dress on you, and now look at it! If you move off that chair I'll whip you till you'll be too sore to move again for awhile!"

"Mary'll be sick if she eats any more of those cucumbers, Tom. She must not have have another slice. They always disagree with her." As her mother spoke Mary began to whimper and her father drew the cucumber dish toward him. As he helped the child liberally, the father said, "It's a strange thing that we can never have a meal in peace in this house. If the child wants cucumbers let her have them. I'm tired of this everlasting fuss about what the children eat. Other children eat what they want. I don't see why ours can't."

"Well, son, what is it to be? Ice cream? I thought so. Well, you earned it, all right. How many cups of potato bugs was it you picked? Nine? You and mother were even then. I guess we'd better bring home candy for her. We must play fair you know. It would never do for us to treat ourselves and forget mother."

"Don't tell me you can't. I say you can—and you will—or I'll know the reason why. I'll have no loafing around here. When I was fifteen years old I did a man's work—never thought of being sick. Hitch up and get off to the field, I say." The boy, palefaced and sullen, turned and walked toward the stable. As he went he muttered below his breath and the look in his eyes was not pleasant to see.

"Your father would be furious if he knew. Last time I left the door unlocked for you I said it would be the last time. I was perfectly sick till your father fell asleep; even then I was terrified lest you should stumble in the dark as you crept up the stairs and waken him. I'm not sure but he is right about your going with Jim Maddox, too. Men know about other men better than we women. I'm sorry I helped you deceive your father. If anything were to happen to you he'd kill me. You're able to take care of yourself—of course, you think so—girls always do—but they often come to grief, just the same. I tell you what, Anna Marie, this is the very last time. I'll help you slip out tonight, but never again, never again."

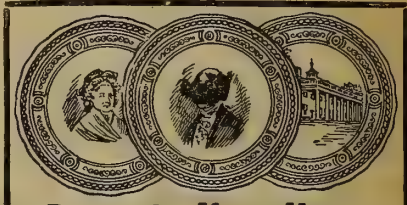
"What are we to do about Frank, mother? He seems perfectly determined to have a horse of his very own, as he puts it." "You talked with him again today, father?" "Yes, and he is more set then ever—if that could be." The mother waited a moment and then said, "What do you think yourself? Have you come to any conclusion?" "Well, not exactly. I think he's over young to have a horse of his own; on the other hand, he is unusually steady for a lad of his age, and he has worked out a plan by which he thinks he can earn the horse if I'll let him. I think perhaps if you're willing we'd better let him have his way since he is so set on it. As long as he does not stay out too late and tells us where he goes he'll not come to harm with the training he has had."

HOME AND HOMEMAKING.

HEALTH HINTS.

For neuralgia apply hot, dry flannels, as hot as can be borne.

The best treatment for a bruise is an immediate application of hot fomenta-



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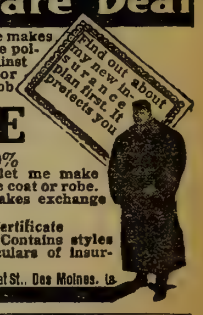

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People's Popular Monthly
Des Moines, Iowa

tions. After that witch-hazel, vinegar and hot water, or alcohol and water, put on with a bandage and often moistened.

For sore throat take one-half a pint of strong sage tea steeped with one teaspoonful of cayenne pepper. Strain and add to it two tablespoonfuls of strained honey, two of vinegar and one of salt. Gargle every hour until throat is better.

Hot soda baths are recommended by some persons for rheumatism, and the way they are taken is this: Fill the tub half full of water as hot as can be borne, add half a pound of common baking soda and immerse the body for at least twenty minutes, keeping up the temperature by the addition of hot water from time to time. Vaseline or cold cream should be rubbed into the skin after the latter has been dried, in order to replace the natural oils.

Poultices.—A poultice is one of the best means for applying heat and moisture in order to relax tissues and ease pain. If they are used to remove pain in the internal organs, make large enough to cover adjacent territory, and as hot as can be borne. If for an external wound make only large enough to cover the spot. Never leave on long enough to grow cold and hard or they do more harm than good. Have a hot one ready to apply before removing the one that is on. There are many kinds of poultices, but the old-fashioned flaxseed is most generally used. It is most efficacious for breaking up a severe cold on the chest and in relieving the congestion in pneumonia. To make it have water boiling and stir in ground flaxseed meal until thick enough to cut with a knife. Add a spoonful of olive oil and spread on a piece of muslin twice as large as needed to turn over and leave an inch or two of margin. Apply to the seat of the trouble as quickly as possible and as hot as can be borne. Do not make too heavy, as the benefit of the poultice lies in the moist heat, not the weight.

LITTLE HELPS BY THE WAY.

German proverb: Misfortune is often the daughter of a good mother.

"The rainbow shines in all its perfect brightness,
After the thunder cloud and flood of rain;
And God sends light and joy, and peace and gladness
Ofttimes when we are bowed with care and pain."

If you cannot in the harvest
Garner up the richest sheaves,
Many a grain, both ripe and golden,
Oft the careless reaper leaves.
Go and glean among the briars
Growing rank against the wall,
For it may be that their shadow
Hides the heaviest wheat of all!
—Ellen Gates.

TO CURE PORK.

One of our neighbors has a plan for curing pork that enables him to begin smoking it the next day after butchering. The meat is cut up in the usual way ready for salting. The required amount of salt is put in a pan or kettle and heated until it is quite dry and granular—like granulated sugar. It is stirred constantly while heating and applied hot by rolling and stirring the meat in the hot salt. Put on a pair of clean cotton gloves and rub the hot salt in thoroughly. It adheres readily to the meat and after cooling for twelve hours is ready to be smoked. This plan has been used for several years and with uniform success.

APPLE WAYS.

Baked Apples With Honey.—Large apples are chosen and cored, the cavity is filled with honey, and they are baked thus, a little butter being added on top of each.

Apple Dumplings.—Pare and core tart cooking apples, envelop each in a layer of biscuit dough, rolled as thinly as possible. Place the dumplings in a baking pan, plentifully sprinkle them with cinnamon and bits of butter, then half cover with water and sugar to make sirup. Bake slowly and baste well.

Apple Fritters.—Pare and core four apples and slice them crosswise in round slices. Beat one egg light, add one cupful of milk, one cupful of flour, into which has been sifted one teaspoonful of baking powder and a pinch of salt. Beat hard for three minutes. Put the sliced apples into this batter. Have ready a kettle with hot lard. Drop the batter into it in large spoonfuls, having one slice of apple in each fritter. Fry for ten minutes. Serve on a hot vegetable dish.

Apple Roll.—Pare, core and cut into even pieces enough apples to fill a quart. Make a short biscuit dough by rubbing two small tablespoonfuls of lard or butter into three small cupfuls of flour with which previously has been sifted one and one-half teaspoonfuls of baking powder and a large pinch of salt. Rub fine and mix to an extremely soft dough with cold milk or water, turn out on a molding board and lightly press out in a shape longer than wide, put the apples on this and begin at one end and roll up. Put loosely in a pudding cloth which has been wrung out in exceedingly hot water and sifted with flour, and steam one and one-half hours, or a little longer. A slight sifting of nutmeg or cinnamon may be put with the apples before rolling, but no sweetening.

Hard Sauce.—Slightly soften a half cupful of butter by adding a tablespoonful of hot water. Stir until creamy and then stir in one and one-half cupfuls of light brown sugar. Stir until light. Flavor with cinnamon and vanilla essence.

AMONG OURSELVES.

The request of the editor that our friends tell us what "The Coming of the Snow" meant to them has been complied with, and two of these letters are presented for your pleasure.

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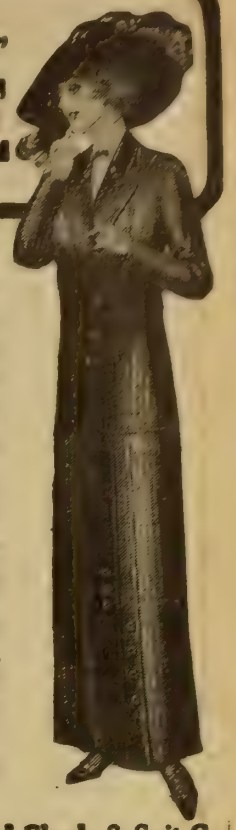

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These letters are as different as to characteristics of the writers and exhibit widely different stirrings of the spirit. "Vera" is in a reminiscent mood as she recalls how she felt the throb at the heart of nature. She says:

How many memories are awakened by this one sentence. Events long since forgotten are again brought before my mind's eye. Especially clearly do I remember one bleak November day a couple of years ago. I had spent a very trying day in the schoolroom and was mentally and physically tired. I started on my homeward way feeling as if my efforts were all in vain and the world were upside down. The sky was heavy with unfallen snow and presently the snow began falling in large, white flakes, slowly but surely changing the dreary landscape to a downy white. When I came to the large bridge I stopped, leaned up against the railing and watched "the noiseless work of the sky." A sense of peace seemed to pervade me and gradually all my troubles seemed to diminish and be of less consequence than before. As I was standing there, breathing the pure, bracing air and trying to forget my disappointments, a belated bird flew above me on its way to the South. Instantly the following stanza of Bryant's "To a Water Fowl" flashed across my mind:

"He who from zone to zone
Guides through the boundless sky thy certain flight
In the long way that I must tread alone
Will guide my steps aright."

I started again on my homeward way feeling comforted and satisfied. My courage was restored and everything seemed more satisfactory than before. I felt that I was truly blest to be able to commune with Nature and thereby restore my confidence in providence and myself.

Have not many of you at some time or other, perhaps time and again, found the benefit of losing yourself in the calm of nature and then returning renewed through and through to the awaiting work of your life? Red letter times were they not?

"Thought-provoking" is perhaps a new term to some of us. The term might perhaps be better if it were "thought-evoking." Getting other people to think and to express themselves in a helpful way is what is intended by the expression. Frances Mason Ferguson shares with us the thoughts that "A Soul Unmarked" brought to her. Her snow thoughts are:

As we gaze in the dawning of a frosty winter's morning upon the newly fallen pure, untrodden snow we think how beautiful and peaceful the scene. And if for some reason, such as an unusual depth of snow or the severity of the weather, that

"The white gleaming surface
With its fullness of soft, snowy white,"

of which we have read in the poem, "A Soul Unmarked," remains undisturbed by people remaining indoors, then as I look forth upon this great waste of unbroken white surface a feeling of sadness and isolation steals over me and I wonder if all this seeming purity has made the lot of the poor still harder to bear. I look out longing to see the activities of life begin anew, to see this cold, glistening surface turned into a busy mart broken by the tread of feet of both man and beast, to see its white fields and roads scarred and seamed by the toil and travel of the toilers as they go here and there, each to his allotted task; some to relieve suffering and bring cheer and companionship which is more desirable than riches to those who are shut in away from the pleasures of the world, who may be made to rejoice by our coming, though we may leave behind us, on the hitherto undefiled snow, a trail darkened by the grime of travel, accompanied by strife and turmoil if we are to give loving service to our fellow men. We cannot be of much service to humanity if we are to sit idly by "untarnished, undarkened," for fear of soiling our white hands from contact with our brothers and sisters, a soil which is only external and does not defile because it readily washes off. To give to the world our best we must not be afraid to mark out, though rough hewn and crooked, a well-defined trail, though it leads over rocks and shoals and be strewn with wasted endeavor and seeming defeat. Though we may diverge from the points of the compass, all these failures help to build for character and impart strength to aid us in helping the unfortunate over the rough places. Our failures may be a beacon light to those who follow after us by revealing to them the pitfalls into which we have fallen as we passed by. Our most sincere friends came to us not over the white, smooth roads of prosperity, but over the rock-ribbed roads of adversity. God judges us by our motives and not by the tortuous road we chose to follow to carry out our good intentions. And when we come to take our final examinations He will give us a high per cent in our marking just for our striving to use the small talent which He has given us. Perhaps we would not stumble so often if we would ask God to choose our way.

Choose Thou my way from day to day,
For my feet grow weary in the way
Which in my weakness I have sought
And found the way with danger fraught;
Choose Thou my way.

Did you ever think of comparing Eve in the garden and Mary in the other garden—Eden versus Gethsemane? Which has done more for the race, for womanhood?

A little chat and some advice about what books to read we are to have from Mrs. Ninette Lowater, a friend of the department with a welcome of long standing:

I am glad that no one thought "The House of Mirth" a suitable gift for a young girl. I think it a morbid, unpleasant story, dealing with problems beyond a young girl's knowledge. As an exposure of the evils of the present system of society it is good and I wish every parent of girls might read it. There are several late books which are good reading for any girl, any one of which might be used for a gift to anyone. There is "The Shuttle," by Mrs. Burnett, whose principal character, Bettina, is perhaps the finest example of self-control and self-reliance in modern fiction. "The Shepherd of the Hills," "The Calling of Dan Matthews," "That Printer of Udell's" and "Barbara Worth," by Harold Bell Wright, are all good, but perhaps "The Calling of Dan Matthews" is less suitable for a young person than for an older one. "The Heritage of the Desert," by Jane Gray, is a fine book. So is "Precious Water," which, like "Barbara Worth," is based on the reclamation of desert land. Two late especially fine books are "Freckles" and "A Girl of the Limberlost," by Gene Stratton Porter. These are good for reading by anyone. "The Road to Providence" is both good and unusual. "The Stories of Friendship Village," by Zona Gale, are among the best of the late books. An older book, but not as well known as some of her others, is "Gayworthy," by Mrs. Whitney. No one need hesitate to use any of her books. I do not think the Patty books and their kind good reading for the young. A girl who shirks her lessons and is a ringleader in mischief and evasion of rules, through school and college, is not safe to introduce to a young person, even in a book. And the more interesting the book, the worse the influence.

Sophia C. Leland writes strongly on the same topic. She points out the great danger that lurks in unwise selection of books. There is just so much time for reading, and every character in which a young mind becomes interested helps to form a basis which is used as a measuring rod. This measures quality rather than quantity. Falseness in the measure becomes falseness in the measurer far too often. Early reading by a young woman or man may well be carefully chosen with the idea of supplying a genuine touchstone wherewith later in life to test men and affairs. Let us hear her:

I feel that I must put in a word after reading what "Elizabeth" says about "The House of Mirth" and kindred books. Is it necessary for a girl of sixteen or of an older age to soil and besmirch her skirts just to see how coal will blacken? Would we send her through the slums and red-light districts to prove to her they exist? God forbid. She says these books will teach her of "life as it is and describe man as he too often is." Men may be such in the society Edith Wharton writes about, but how does a favorite author know of these things? A book for a young girl or any girl should be elevating and uplifting, and although such conditions may and do exist as are described in "The House of Mirth," why should they be dished up to nauseate and poison the taste for the good, the true and the beautiful? Sometime ago a literary club concluded to discuss some of the books in the library of their city. They chose "The House of Mirth," by Edith Wharton; "The Shuttle," by Frances Hodgson Burnett, and "The One Woman," by Thomas Dixon, Jr. These books were read and studied carefully, discussed freely and it was the consensus of opinion that these books ought never to be found in the circulating library. Elizabeth has touched one of the vital points. She wishes she knew whether her "heroine" (if it could be possible to call the cigarette-smoking, wine-drinking Lily Dart a "heroine") did actually, intentionally or accidentally kill herself by "an overdose of her favorite drug." With Sir Gilbert Parker's books, "When Routledge Rides Alone" and hundreds of such books available, such books as "The House of Mirth," "The Masqueraders," "The One Woman," "The Awakening of Helena Richie" and "The Iron Woman" ought to be condemned and banished from the book shelves of all lovers of pure literature. We have heard of the yellow-covered novel, but poison can lurk between attractive covers.

Yes, we want our sons and daughters to keep out of the pitfalls, and they should know that such things exist, but it is not necessary that they go near such things and lean over to look into them. Girls have been overcome with giddiness and have fallen in; young fellows, fine, tall, stalwart lads, have thought they could stroll along the edge only to find out that the edge crumbled away and that they needed the life-line.

Other phases of our many sided-lives press upon us and our attention is needed in the pantry where Eva Jones gives us her recipe for making whole-wheat bread:

One and one-half cakes of yeast, one and one-half cupfuls of lukewarm water, one and one-half cupfuls of milk scalded and cooled, seven and one-half cupfuls of whole-wheat flour, three tablespoonfuls of brown sugar, one and one-half teaspoonfuls of salt and three tablespoonfuls of butter or lard, melted. Dissolve yeast in lukewarm liquid, add lard or butter, then flour gradually, as whole-wheat flour absorbs moisture slowly, and lastly add the salt. Knead thoroughly, being sure to keep dough soft. Place in well-greased bowl, cover and set aside in warm place to rise for two hours. When double in bulk turn out on kneading board, mold into loaves, place in well-greased pans, cover and let rise for one hour or until light. Bake in oven (a little slower than you would for white bread) one hour and five minutes. I have used this recipe for years and always have good success.

Your editor hopes that a number of you will clip out this recipe and later on be able to tell the department how fine the whole-wheat bread is.

In the kitchen and in the milk house on the Royse Farm in Oklahoma the dish cloths and the milk

Use Caution—Don't be Defrauded!

The great popularity and the heavy demand for the famous Martha Washington Comfort Shoes made only by the F. Mayer Boot & Shoe Co. of Milwaukee, have caused dishonest dealers to sell cheap and inferior imitations to their customers when the genuine Martha Washington was wanted and asked for.

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PEOPLE'S POPULAR MONTHLY
Dept. 2, Des Moines, Iowa

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GIRLS WANTED Competent cook, also second girl for general housework. Small family. Wages $5.00 per week each. References wanted. Situations for six girls here. Mrs. Frank A. Fairburn, Fonda, Iowa.

cloths are kept sanitary, and this is how Mrs. Royse goes about it:

The towels which are used to dry the dishes and cooking utensils should never be put in with the weekly wash, but laundered to themselves in the dishpan. Soak them over night in a good warm suds. Rub well next morning and boil in suds containing one-half cupful of washing fluid made of one gallon of rain water and one ounce of turpentine, one ounce of household ammonia; or, in place of washing fluid, a tablespoonful of baking soda. Rinse well, then blue. This takes very little time and if care is used to wash when slightly soiled they can be kept clear and white. It also makes washing easier to have this part of the work done. Milk cloths should be treated in the same manner, except they should not be blued. A bag made of oilcloth hung on or near the kitchen cabinet to hold the soiled towels is a convenient and sanitary method of keeping them until washing time.

Concerned about the troubles that have befallen some of our house mothers, Mrs. M. Sullivan tells how they may be overcome. This is her first welcome "Among Ourselves." Let us hope that it will not be the last time we have the pleasure of having her give of her experience:

To freshen the lard you already have, melt it and to every one-half gallon peel and slice two potatoes about the size of a common cup. Boil slowly till the potatoes are cooked and strain through a cloth. Try a small amount first. To prevent worms getting into dried fruit heat it in the oven after it is well dried. For the five-months-old baby put on his under garments, not the same ones he has in the daytime; have a different set of garments for night and day. Make little gowns out of tennis flannel and put a draw string in the bottom. When you have put them on baby pull up the draw string and tie. Have a blanket or quilt warm, wrap him in it and put him in the bed. When the bed gets warm loosen the blanket around him, and when he gets a little older, if you leave him in the bed in the morning while you get breakfast, take a safety pin and pin his clothes to the bed clothes and he cannot fall out. Have a little night cap made of tennis flannel also. I have enjoyed the book talks very much, as I am a great reader. Could someone tell me where I could get "Dorothy Vernon of Haddon Hall?"

I am looking forward to being able to make a demand upon our chief editor and manager for what Oliver Twist asked for, "more," when all those letters come in that you are preparing for our next contest. I had hardly sent out the notice when the postman brought me a letter about how a certain family had put in a water system in the home and in the barn. Curious things happen to an editor at times. Of course, it doesn't need to be such a big thing as that for you to tell us about, but do let us know in a helpful way what you have around your house that you have made yourself, or the "guid mon," because it might lighten the burdens of some of the rest of us. It's all "Among Ourselves."

Big Doll For You

Nearly Two Feet Tall

This beautiful doll is 18 inches tall, jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood, when you get this doll, and she is yours for just a little easy work. I expect to give away 5,000 of them. Write today for great free offer.

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THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

INACHA'S MOTTO.

Do it today; tomorrow may be too late.

WAVE'S MEMORY GEM.

Little by little the time goes by,
Short if you sing through it, long if you sigh;
Little by little, an hour a day,
Gone with the years that have vanished away;
Little by little the race is run,
Trouble and waiting and toil are done.

SUNFLOWER WRITES A POEM.

First comes the robin with the red breast;
He flies to a tree and builds him a nest.
Next comes the blue jay, with blue on his head;
I know he is looking to find him a bed.
Next is the oriole, with red, green and gray;
There he goes flying, happy and gay.
Now come the others to find them a nest;
I do hope they'll find one, so that they may rest.

ROLL OF HONOR.

Active Artist, Adelheid, A. M. D., Andrés, Anne of Green Gables, Arolf, Baby's Brother, Banker, Beatta, Belda, Bethenda, Bonnie, Brightness, Brown-eyed Lark, Bruna, Charmion, Clover Leaf, Dandy, Dante, Dimple, Doll, Ego, Elberta, Ess Ess, Evadela, Fairbury, Faithful Pet, Farmer Lassie, Four-leaf Clover, Garda, Glory, Gold Jessie, Hart, Healthy, Homer Rice, Housekeeper, Hula Hula, Iowa, Iowa Chimes, Jodi, Jolly Sixteen, Lady Tippins, Lamplight, Len, Little Beauty, Liza, Long Pete, Lotus Blossom, Love, Marinuka, Marjorie, Mary, Mignonette, Mizzie, Mossy, Nebraska Farmer, Negah, Nellie Rose, Patch, Peggy, Petra, Phyllis, Poser, Princess Yetive, Prophylactic, Putnam, Queen, Rebecca of Sunnybrook Farm, Regena, Rosebud, Rosy Plum, Russet, Selma Fern, Sunflower, Tiberia, Toots, Verano, Violet Eyes, Vivid, White Water Lily, Wilna, Zerlina.

All these young folks won their place here by sending handiwork in the contest ending January 31st.

Pansy badges were sent to Retha, Silver Star and Thalia. A silver badge was sent to Little Beauty. This makes three who are wearing our silver honor badge. We will be glad to publish their photos if Iowa and Partner will send theirs; Little Beauty's was published sometime ago.

THOSE BEHEADMENTS YET.

Still they come, answers to the beheadments, Dorothy Jordan, Ella Robins, Franklin Potter, Grace Bingman, Ilah Miller, Silvery Wings and Sly Fox being the latest comers; these swell the total to 310 solvers. Next week we will begin to publish the names of the solvers of the three interesting puzzles for which a prize was offered for best list of answers.

ANSWERS TO THE BEHEADMENTS.

Cape, ape; glasses, lasses; pink, ink; slate, late; cart, art; spool, pool; stool, tool; pear, ear; sweep, weep; hair, air.

THE HANDIWORK CONTEST.

This was a very interesting contest for Aunt Mary and her family and neighbors, all of whom were eager to see the pretty and novel things that were produced from the small capital of five cents. In all 104 entries were made, so additional prizes were given. Beside the prize winners, all the others get positions on the Roll of Honor, which today is given up entirely to the handiwork contestants.

The first prize, a camera, is awarded to Gladys Hunt, Hendersonville, Tenn., age 14, for a wee pair of mittens. Gladys carded and spun the wool into yarn, and then knitted it into mittens; and their smoothness and perfect shape showed great care throughout.

Second prize, a pen knife, is given to "Helen Pink," Kingsley, Iowa, age 13, for a beautiful corn-husk-trimmed box.

Third, a book, goes to "Sandhill Savage," Sutherland, Neb., age 12, whose entry was a whisk broom made of swamp grass, very useful and well made, but costing nothing.

Fourth, paints, to Marjorie Seitel, Correctionville, Iowa, age 8, table mat.

Fifth, a book, to Frances B. Dann, De Witt, Iowa, dainty tatted lace jabot. Frances says she can make ten from a five-cent spool of thread, and they make beautiful gifts.

Sixth, a book, to "Silver Threads," Des Moines, Iowa, age 14, for an odd specimen of hand carving.

Seventh, a book, to "Ike," Curlew, Ia., age 8, very pretty bunch of flowers.

Eighth, a book, to Whitefield Adamson, Nelson, Neb., age 11, match scratcher.

Ninth, a book, to "Thora," Avoca, Ia., pretty pink puff bag with round mirror in the bottom.

Tenth, a book, to "Harry," Bryant, Wis., age 14, netted doily.

Eleventh, a necklace, to "Robin," Memphis, Mo., age 12, hand-embroidered doll dress and bonnet, beautifully worked.

Twelfth, a necklace, to "Verneal," Blue Springs, Neb., age 12, for a Battenberg doily.

Thirteenth, a box of stationery, to "Oriola," Sioux Fals, S. D., candy book bound in black velvet.

Fourteenth, a necklace, to Olga Lofgren, Stephenson, Mich, age 13, for a crocheted heart-shaped cushion.

Fifteenth, a box of stationery, to "Honey Bunch," Humboldt, Neb., age 15, gray oval doily worked in French knots.

Sixteenth, ten post cards, to "Saida," Fond du Lac, Wis., crocheted doily in little circles.

Seventeenth, ten post cards, to "Iowa Star," Mt. Pleasant, Iowa, age 16, sewing apron, every stitch set by hand.

Eighteenth, ten post cards, to "Yerma," Richfield, Wis., age 18, an embroidered bib.

Two special prizes were awarded and sent in the middle of the contest for promptness to "Minnesota Lassie," Dawson, Minn., and "Dakota Blue Eyes," Watertown, S. D.

There were twenty-one specimens of drawing or painting, seven cushions or cushion tops, six paper entries, including calendars, flowers, etc.; six pin and needle cases of various kinds; six entries of doll clothes; five samples of sewing; four jabots, all different; three handkerchiefs and three bags; two baby bonnets and two match scratchers; some lace, sachet bags, doll chair, guest book, recipe case, booklet illustrating all the administrations, an apron, a woven rug, a photo, a stamp case, a napkin ring, a basket and a memorandum novelty.

It shows that anyone can make pretty and useful things with a very small outlay of money, if they only use their ingenuity and take pains with their work. Aunt Mary thanks all who took part in the contest.

HER VALENTINE.

By Sharlot.

Veda Vale was a country girl and went to a district school. Her father was not a very good farmer, and did not have a very large farm, but that would not have made any difference if Veda herself had been different. As it was, they did not like her very well, the girls who went to her school. There were seven beside herself. The reason, they said that they did not like her was because she was so selfish and cold hearted. Everyone has a warm spot in their heart, varying in size, however, outward appearances seem. It was four days until St. Valentine's Day, and all were making or buying valentines. Hearts of various sizes were at times fluttering from the desks and seats. Veda's desk never had any on, and none ever were held for her inspection by the other girls. Dora King felt sorry for her, though, as she stood by the window at noon, while all the other girls were busy at valentine making and cutting. Once or twice Dora had seen a tear fall on her hand as she stood there, but the other girls were always too busy to notice. One day Dora told the girls what she had seen. It was just the day before the fourteenth, and they all looked surprised when Dora said she was going to give Veda a valentine. "It wouldn't do any good, would it?" said Reva Spencer, as she finished a particular pretty valentine of silk tissue and red roses. "I don't know, but I'm going to try it, anyway," said Dora, in a low tone so that Veda would not hear. "Well, I'll give this one," said Reva, showing the girls the prettiest one. "Your very prettiest!" said Lena Journell, a girl of about eleven. All the girls soon repented of their bad behavior and selected their prettiest for her. She was greatly surprised the next day when all the girls showered them in her lap. She could not keep back a few tears and said, after she had looked at them all, "I can't thank you enough, girls, but I'll try to, by loving you all." And the next day they each found a pretty valentine from "Veda Vale, your loving schoolmate."

Have a care how you allow the stock to run in the fields while the ground is so soft. It doesn't appear to injure it, but when you come to farm it, you'll find it packed and hard, and cultivation will be difficult throughout the entire season. Keep a close watch on the meadows, too. Don't allow a hoof on them these days of soft sod.

COME

to See Me at Waterloo!

Galloway wants you as his guest at Waterloo—COME! Jump on the train and come—quick—spend at least a day or two—stay a week if you like—go through the great Galloway Factories and see for yourself how and why Galloway saves his Farmer Friends big money on the best Engines, Manure Spreaders and Cream Separators.

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If You Can't Come to See Me Now, Write Any Way!

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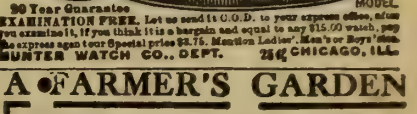

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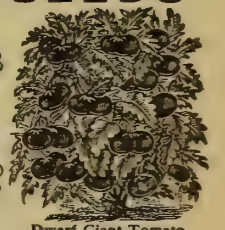

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PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

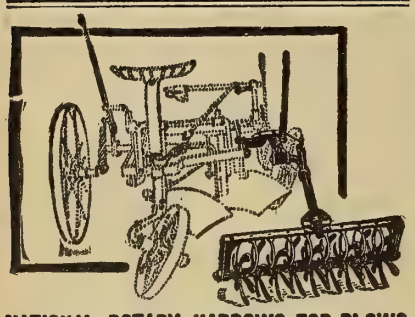
FIRST QUARTER. LESSON VIII. GEN. XIII., 1-18 February 23, 1913

ABRAM AND LOT—THE STORY.

Abram probably followed the great desert highway which still exists between the East and Damascus, the very same, probably, that his grandson Jacob took in his flight from his angry brother. To all outward appearances, Abram's company probably exactly resembled the caravan which the traveler in the East sees today. There were the camels, "ships of the desert," bearing their precious freight of women and children, besides provisions and merchandise. There were the flocks and herds and their attendants, besides the armed guard. The oak or oak grove of Moreh in Sichen is the first-mentioned camping place of the patriarch within the bounds of the promised land. Abram's first recorded act is significant. Columbus standing on the shore of the New World, unfurled the standard of Ferdinand. Abram, coming into Canaan, built an altar to God. So it became his custom "Where Abraham had a tent, God had an altar." These became a series of "sermons in stone" to the idol-worshiping Canaanites. The first mention made of Abraham on his return from his enforced sojourn in Egypt is concerning his wealth. The statement of the artless narrative is simply, "Abraham was very rich in cattle, in silver, and in gold." God's promise of temporal blessings had an early fulfilment Kitto's computation are curious rather than reliable. On the data of the possessions of Jacob and Job he estimates Abraham as having between 8,000 and 9,000 head. Of course, such immense herds and flocks would imply a correspondingly large number of attendants. From the incident of the equipment of 318 men for war it may be figured that there were something over 1,000 men in the camp, not to mention women and children. Up to this time Abraham and Lot had shared the pleasures and hardships of their pilgrim life. But now the herds of both had increased "so that the land was not able to bear them that they might dwell together." So, as sometimes occurs to this day, the herdsmen became rivals, and strove for pasturage and water. In this incident Abraham's character shines resplendent. Two thousand years before Christ he showed the Christian spirit when he said to Lot, "Let there be no strife between me and thee and between my herdsmen and thy herdsmen; for we be brethren." Nor are these mere words. Abraham backs them up. He waives his right. The land was his. It was all his. Yet in noble magnanimity he said to Lot: "Is not the whole land before thee? Separate thyself, I pray thee, from me. If thou wilt take the left hand, then I will go to the right; or if thou depart to the right hand, then I will go to the left." Lot's selfishness crops out. He took advantage of Abraham's generosity. He cast his eye on the well-watered plain of Jordan, and chose it. He journeyed east. It was not long before he exchanged pastoral life for urban. He attempted the impossible. A double service—God and riches—met the inveterate and historic outcome. Another incident in the career of Lot is the occasion of the display of new traits in the admirable character of Abraham: decision, bravery, military skill. Lot is in trouble. The very wealth he coveted and the richness of the land he chose was the cause of it. A rumor brings tidings of a predatory incursion and of Lot's captivity. Abraham determines his course instantly. Lot must be rescued. companies of trained servants, born in his camp, are armed; and Abraham takes command in person. Strategy gains a victory. Generosity declines the spoils.

The Teacher's Lantern.

Biography composes a large part of Scripture. God's Book has a deal by man in it. It is well it is so. Men of the Bible stand for ideas: Abel, innocence; Noah, obedience; Jacob, persistence; Moses, law; Aaron, worship; Joshua, courage; David, praise; Solomon, wisdom, Jeremiah, patriotism; Paul, zeal; John, love. Thus God teaches by example. Example is better than precept. Want a boy to love his country, give him the life of a patriot; to be successful in business, give him the life of one of the "captains of industry." So God deals with his larger children: gives us examples. Good for imitation, bad for avoidance. So in studying Bible characters we are not to entertain ourselves with trivial incident, but find what they stand for, the virtue or the vice they incarnate. Biography of the Bible reaches its highest note in the life of Jesus. Christianity, in final analysis, is the religion of a Person; not of a dogma, creed, or system of theology or ecclesiasticism. At heart of it is the Person. Truth is so shrined in Him that He could say, "I am the truth." There is one little passage in the account of Abram's entrance to the promised land. It might escape the superficial reader, but is worthy of attention. "And the Canaanite was then in the land." The patriarch came into the land the Lord had indicated to him, only to find it preoccupied. He might have reasoned, "How can I ever, with my paltry band, drive out these warlike nations?" The incident seems not to have given him any concern. Fact is, he was not reasoning. He was trusting. Again there was something besides Canaanites. "There was a famine." What, in the land which was to flow in milk and honey! Abraham did not fret. He did the wise thing. He went to Egypt on a visit.



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OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

The pattern, No. 5982, is cut in sizes 6, 8, 10 and 12 years. Medium size requires 2½ yards of 44-inch material with 2 yards of edging. Price of pattern, ten cents.

5946 Lady's Coat—This is the new fashionable coat model made in the stylish 32½-inch length, with straight or cutaway fronts, with or without vest and with two styles of collars. The regular coating fabric may be employed and a nice idea is to make the collar and revers of moire or brocade satin.

The pattern, No. 5946, is cut in sizes 32 to 42 inches bust measure. Medium size requires 2⅝ yards of 54-inch material. Price of pattern, ten cents.

5601 Lady's Eight-Gored Skirt—The skirt given in this design represents one of the newest models of the season. The garment is cut in eight perfectly proportioned gores, and has the closing at the left side of the back. It may be developed for separate wear or as part of a coat suit or complete costume in any wanted material.

The pattern, No. 5601, is cut in sizes 22 to 30 inches waist measure. Medium size requires 6 yards of 36-inch material. Price of pattern, ten cents.

5919 Girl's Dress—Here is a charming little frock with the closing at the back in Duchess style. It has separate guimpe which may be worn or omitted as preferred. The square neck is outlined with contrasting goods with which the sleeves and belt are also trimmed. Any wanted wash material may be used.

The pattern, No. 5919, is cut in sizes 6 to 12 years. Medium size requires 2⅜ yards of 36-inch material and ⅛ of a yard of 27-inch contrasting goods for dress and 1⅝ yards of 27-inch material or 1¼ yards of 36-inch goods for guimpe. Price of pattern, ten cents.

5857 Girl's Dress—Any little girl would look charming in this attractive frock, which is simplicity itself in construction. It is plaited in pleasing fashion and held in fashion by a belt. The neck is finished with a neat turn-down collar and the sleeves have chic rolled-back cuffs. Collar and cuffs are of contrasting materials. Linen, gingham, percale and pique are among the most serviceable fabrics for a garment of this nature.

The pattern, No. 5857, is cut in sizes 6 to 12 years. Medium size requires 3 yards of 36-inch material and ⅜ of a yard of 27-inch contrasting goods. Price of pattern, ten cents.

6043 Lady's Dress—This stylish frock closes at the front and the three-gored skirt is made with the Empire waist line. The new drooping shoulders are seen, also the turn-over collar. Collar, cuffs and skirt insert are of contrasting material, which furnishes a pretty trimming note to the garment.

The pattern, No. 6043, is cut in sizes 34 to 42 inches bust measure. Medium size will require 6⅞ yards of 27-inch goods or 5¼ yards of material 36 inches wide, with ¾ of a yard of 27-inch contrasting goods. Price of pattern, ten cents.

5982 Girl's Empire Dress—This pretty little Empire dress closes at the front. Any of the soft materials can be used to make it.

NEWS OF THE SALE RING.

Dorr's Poland China Sale.

Henry Dorr, Remsen, Iowa, sold his annual offering of bred Poland China sows Tuesday, February 11th, to a good gathering of breeders from Iowa and neighboring states and to farmers of the nearby territory who are in the market for improvements in their live stock. There was nothing at all sensational about the prices secured, though the offering sold well, averaging for the sixty head a little over $100. The top sow was No. 5, a fall gilt, full sister to the first-prize gilt at Sioux City last fall, and went to Bruce Francisco, Hastings, Neb., at $260. Her sister was purchased by Fred Drolle, Mission Hill, S. D., at $240. Many names prominent among the breeders of South Dakota, Nebraska, Minnesota, Illinois and Indiana appear in the list of buyers given below. Harvey Johnson, Logan, Ia., took No. 1 of the catalog, Expansion Nora, bred to the big-boned young boar, D.'s Monarch, a boar that promises well in this herd. J. E. Adams, Webster City, Iowa, took several good ones home and was a contender for many others of the best. Several of the good ones went to Henry Bros., Sheldon, Iowa, who were also prominent in the bidding on the choicer stock throughout the sale. Col. H. S. Duncan was in charge of the sale, assisted by Cols. J. A. Benson and H. O. Sellier. The following is a list of the buyers:

1. Harvey Johnson, Logan, Ia.--$185.00
2. Henry Bros. Co., Sheldon, Ia.- 135.00
3. James Williams, Marcus, Ia.- 115.00
4. Fred Drolle, Mission Hill, S. D. 240.00
5. H. B. Francisco, Hastings, Neb. 260.00
6. Henry Bros. 145.00
7. Henry Lewin, Hartford, S. D. 170.00
8. E. S. Barker, Doon, Iowa--- 125.00
9. L. E. Daly, Egan, S. D.---- 95.00
10. J. C. Meese, Ord, Neb---- 140.00
11. Harry Dodds, Florence, Neb- 130.00
11½. J. E. Adams, Webster City, Iowa 132.50
12. Ben Snyder, Marcus, Iowa--- 140.00
13. Will Henry, Marcus, Iowa--- 215.00
14. J. L. McDonald, Lytton, Iowa 95.00
15. Henry Bros. 160.00
16. Chas. Trienen, Remsen, Iowa- 80.00
17. Henry White, Trivoli, Ill.--- 75.00
18. A. Ufkin, Remsen, Iowa---- 110.00
19. E. P. Wellborn, Cythiana, Ind. 155.00
20. Harry Dodds 95.00
21. W. T. McLaughlin, Manson, Iowa 100.00
22. Lee Michaels, Springfield, S. D. 85.00
23. C. F. Barrett, Doon, Iowa--- 95.00
24. Ben Gash, Fonda, Iowa----- 65.00
25. Wm. Schreier, Alton, Iowa--- 70.00
26. Henry White 67.50
29. Dan Thornton, Lanesboro, Minn. 67.50
30. Will Henry 85.00
31. Dan Thornton 80.00
32. Wm. Weiss, Cherokee, Iowa- 57.50
34. Geo. H. Paul, Washington, Iowa 80.00
35. E. S. Barker---------- 70.00
36. E. J. Drifke, Meriden, Iowa-- 60.00
37. August Vaupel, George, Iowa 192.50
38. Mrs. Ida Ragness, Hills, Minn. 105.00
40. G. W. Royer, Kingsley, Iowa 70.00
40½. Wm. Schreier---------- 70.00
41. W. W. Henning, Sac City, Ia- 100.00
42. Wm. Weiss 67.50
43. Henry Bros. 75.00
45. Fred Dralle 65.00
47. J. E. Adams---------- 62.50
49. D. H. Snyder, Windom, Minn- 85.00
50. August Oment, Geddes, S. D- 55.00
52. Ed Helms, Remsen, Iowa---- 65.00
53. Fred Dralle 77.50
54. Chas. Stortz, Kingsley, Iowa- 75.00
55. Ed Helms 55.00
56. G. W. Hartman, Rose Creek, Minn. 67.50
57. D. H. Snyder---------- 62.50
58. G. W. Royer---------- 60.00
59. A. E. Fotz, Storm Lake, Iowa 67.50
60. Wm. Weiss 55.00
61. John H. Kramer, Alexandria, S. D. 80.00
63. John Schmieder, Remsen, Ia- 175.00
60 head ------$6,047; aver-----$100.80

Waltemeyer Bros.' Duroc Sale.

On February 11th, Waltemeyer Bros., Melbourne, Iowa, held their sale of prize-winning Duroc Jersey bred sows as previously advertised in this paper. Many old breeders and good judges pronounced the offering as the best lot of sows they had ever seen pass through a sale ring. Every man who bought a sow in this sale got value received. Ohio Queen, the great grand champion sow, was a bargain at $285, selling to H. R. Heishman, LaMoille, Iowa. Golden Queen 36th, the first-prize gilt at Des Moines, sold for $200 to W. N. Shanks. Ten states were represented at the sale, which shows the widespread interest in the Golden Model family. S. E. Eakle, Prophetstown, Ill., bought a good fall boar pig by Golden Model II. at $127.50. N. G. Kraschel did a most excellent job of selling the offering. His opening address was exceedingly appropriate and to the point. H. S. Allen and John Garis assisted in the sale. No animal sold under $57.50, as the complete list below shows:

1. H. R. Heishman, LaMoille, Ia.$285.00
2. McNiff Bros., Luverne, Minn- 150.00
3. W. N. Shanks, Worthington, Minn. 200.00
4. B. F. Bloomfield, Elgin, Iowa 132.50
5. B. F. Bloomfield---------- 97.50
6. C. A. Moulton, Morrison, Ill-- 142.50
8. Virden & Fink, Albert Lea, Minn. 147.50
9. Chas. Wyath, Melbourne, Ia--- 112.50
10. T. J. Southern, Green Mound, Iowa 140.00
11. G. B. McAndrews, Vail, Iowa- 127.50
12. W. Hugh Young, Rushville, Ill. 155.00
13. Lester Walker, Rhodes, Iowa. 87.50
14. J. A. Henniger, Geneseo, Ill-- 90.00
15. L. I. Harding, Melbourne, Ia-- 77.50
16. B. F. Bloomfield---------- 97.50
17. W. F. Beckemeyer, Melbourne, Iowa 122.50
18. Guy Monroe, Elberon, Iowa--- 102.50
19. A. C. Makrill, Platt, S. D---- 95.00
20. L. F. Atwater, Bangor, Wis-- 95.00
21. Henry Kreager, Baxter, Iowa. 110.00
22. P. J. Bierne, Vail, Iowa----- 85.00
23. H. H. Keonig, DeWitt, Neb-- 150.00
24. F. L. Dunham, Manchester, Iowa 87.50
25. Rude & Son, Moorhead, Iowa 107.50
26. Myron Capron, Melbourne, Ia. 107.50
27. W. N. Shanks---------- 137.50
28. W. H. Swartzley, Riverdale, Neb. 100.00
29. I. J. Wilson, West Branch, Ia. 122.50
30. J. T. Higgins, Abilene, Kan-- 95.00
31. M. S. Pratt, Fredericka, Ia--- 122.50
32. H. E. Huston, Iowa Falls, Ia. 97.50
33. J. E. Smith, Victor, Iowa---- 120.00
34. S. P. Freed, Ames, Iowa----- 87.50
35. W. F. Hutchinson, Cleveland, Mo. 97.50
36. G. E. Paul, Haverhill, Iowa-- 57.50
37. H. S. Fain, Emmetsburg, Ia--- 97.50
38. E. L. Perry, St. Anthony, Iowa 70.00
39. Ed Freese, Nora Springs, Ia--- 82.50
40. J. E. Waldron, Elgin, Iowa--- 60.00
41. O. G. Smith, Kearney, Neb-- 130.00
42. Peter Streit, Sublette, Ill---- 95.00
43. Ed Freese 99.00
Extra boar pig. S. E. Eakle, Prophetstown, Ill. ---------- 127.50

SUMMARY.

43 head -------$4,870; aver---------$113

Lamb's Duroc Sale.

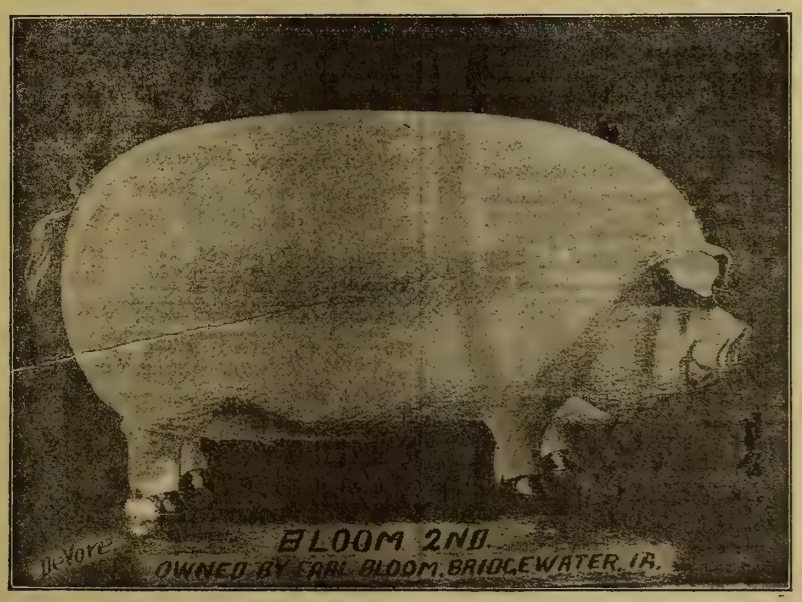
On Wednesday, February 12th, A. W. Lamb, Albion, Neb., held his sixth annual sale of Duroc Jerseys. The offering was in splendid brood sow form, the sows showing careful feeding such as was expected from both farmers and breeders who were acquainted with Mr. Lamb and his herd. Mr. Lamb is to be congratulated for the good showing made by the farmers of his neighborhood at this sale. A large crowd was present. Colonel Callahan conducted the sale in his usual efficient manner and when it was finished it was found that the fifty head averaged $57.85. Below is a list of the sales:

1. F. B. Nelson, Lindsay, Neb--$125.00
2. Robt. Leisy, Wisner, Neb---- 85.00
3. M. W. Walker & Son, Malta Bend, Mo. 82.50
4. F. W. Sellers, Ainsworth, Neb. 70.00
5. J. P. Petersen, Herman, Neb- 65.00
6. F. A. Baldwin, Ainsworth, Neb. 62.50
7. J. S. Golder, Oakland, Neb--- 75.00
8. Earl Hutchinson, Loretto, Neb. 60.00
9. John Bader, Scribner, Neb--- 67.00
10. J. S. Golder---------- 110.00
11. Robt. Hansen, Albion, Neb-- 60.00
12. J. A. Meyers, Loretto, Neb-- 66.00
13. W. J. Fisher, Petersburg, Neb. 60.00
14. C. E. Petersen, Genoa, Neb-- 62.50
15. Clarence Wallace, Wisner, Neb. 47.50
16. J. A. Meyers---------- 58.00
17. F. A. Lemmerman, Creston, Neb. 65.00
18. Jonas Lindquist, Scribner, Neb. 45.00
19. A. Widle & Son, Genoa, Neb-- 60.00
20. J. S. Golder---------- 105.00
21. Wm. Moderow, Beemer, Neb-- 117.50
22. Ralph Coder, Loretto, Neb--- 55.00
23. Henry Asse, Bradish, Neb--- 65.00
24. E. E. Place, Albion, Neb---- 40.00
25. A. R. Barnes, Petersburg, Neb. 80.00
26. T. A. Evans, Oakdale, Neb--- 41.00
29. Prairie Grove Stock Farm, Royal, Neb. ---------- 57.50
28. Gus Krueger, Beemer, Neb--- 75.00
29. Ralph Kronkright, Loretto, Neb. ---------- 40.00
30. Fred Barnes, Loretto, Neb--- 35.00
31. Frank Kronkright, Loretto, Neb. ---------- 57.00
32. Jonas Lindquist ---------- 37.50
33. J. J. Getzfried, Albion, Neb-- 43.00
34. Fred Barnes ---------- 35.00
35. Fred Barnes ---------- 35.00
36. R. N. Hastings, Albion, Neb- 44.00
37. Ralph Kronkright ---------- 37.50
39. J. E. Forkey & Son, Malcolm, Neb. ---------- 57.50
40. A. Greenwood, Albion, Neb-- 31.00
41. John Bader ---------- 62.50
43. Frank Lamb, Albion, Neb--- 28.00
44. Frank Lamb ---------- 28.00
45. H. W. Johnson, Albion, Neb-- 35.00
46. H. W. Johnson---------- 35.00
48. G. E. Samuelson, Osceola, Neb. ---------- 50.00
49. A. Greenwood ---------- 31.00
50. Fred Barnes ---------- 35.00

H. H. Shaw's Duroc Jersey Sale.

A splendid gathering of farmers and a grand attendance of leading Duroc breeders were in attendance at the H. H. Shaw sale of Duroc Jerseys held at Hebron, Neb., on February 11th. The offering was hardly up to the standard usually put up by this enterprising breeder, owing to the fact that he was a little short of material to make the sale and was obliged to include some that were small and that cut the average a great deal. Some excellent sows were listed, however, and while the writer is of the opinion that Mr. Shaw has made a mistake in several of his sales to sell as valuable sows as he has offered, yet they should be money makers for the buyers. Mr. Shaw buys the best stuff to be had whenever he buys at all, but that class of stuff is hardly profitable selling stock for a man who has had only a few years in the business. The top of the sale was the great Lincoln Wonder sow, Hebron Queen, and she went to the good breeder, E. L. Busch, Syracuse, Neb., at $85. The entire cataloged offering of forty-two head made an average of $35.25. Those selling for $40 or more are listed:

1. E. L. Busch, Syracuse, Neb------$85
3. H. B. Miner, Guide Rock, Neb--- 50
4. W. E. Monasmith, Formoso, Kan. 40
5. A. Pew, Hebron, Neb---------- 46
6. C. H. Koenig, Plymouth, Neb---- 46
10. A. J. Duerr, Milford, Neb------- 40
11. W. T. Lucas, Chester, Neb------ 41
15. A. F. Velte, Hebron, Neb-------- 41
16. W. T. Lucas---------- 40
17. W. T. Lucas---------- 40
20. Ralph Wilson, Hebron, Neb----- 46
29. A. J. Duerr---------- 42
31. Wm. Retzlaff, Bennet, Neb------ 45



BLOOM'S CHESTER WHITES.

The above engraving shows Bloom 2d, a Chester White show sow owned by Earl Bloom, Bridgewater, Iowa. This animal has never been beaten in any show ring and a competent judge expressed the opinion that she would win against hogs that took ribbons at the Iowa State Fair. Mr. Bloom informs us that he still has for sale a few more bred sows and gilts and that he is booking orders for pigs. Some of these are bred almost exactly like the sow shown in the picture. See advertisement elsewhere in this paper and for information write to the above address.

One of the Large Wheat Fields in the Shallow Water District

Logan county, Colorado. This field yielded 46 bu. per acre. This is the finest farm land in the West and we are selling it at the very lowest prices. One crop pays for the land. Finest soil and water. Close to market. Agents wanted. Write for free circular. Address

Platte River Valley Land Company

1119-22 City National Bank. OMAHA, NEBRASKA.

FREE BEAUTIFUL illustrated literature describing cheap Minnesota Park Region Lands, so easily purchased from our company. Write land agent, C. K. I. & P. Ry., 116 Wolvin building, Duluth, Minnesota.

WRITE OWNER Half section farm—No. 1 land and improvements, near town and school. Great bargain. Seventy-six dollars per acre. **Arthur McCarten, Marshall, Minn.**

TEXAS! 4,686 ACRES $7.50 per acre. Near Longview. 240 acres joining Marlin, $125.00 per acre. Write for land list. **JOE LYONS. - Desk 5, Marlin, Texas**

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

BUY ALFALFA FARMS. BEST ON EARTH. I WILL place on the market March 6th my 78,000-acre ranch, located in the Shallow Water Valley of Bailey county, Texas, which is considered the most productive and largest body of Shallow Water Alfalfa Land on the American continent. For the opening we will make a special inducement to all who purchase land on that date, whereby I will guarantee them the purchase price any time in five years. Write immediately for full particulars if you want to own some of the best alfalfa land in the United States and purchase it under a positive guarantee of getting your money back in case you become dissatisfied with the property. F. E. McNULTY, 424 Rialto Bldg., Kansas City, Missouri.

MINNESOTA KITTSON and Roseau Co. open lands; a few groves for shelter, good graded roads and cement bridges and drainage ditches; perfect system, a gift by the state to the lands, a gift to you who buy the lands; a small balance payable with the tax for a few years. See sample of soil and grain in our office; clay subsoil. Price $15.00 to $50.00. Choice unimproved $25.00 to $35.00. Don't stop to write. Come to see us and let us show samples and explain the drainage; better than Illinois tiled lands. Also our special contract, something new and good for you. Don't rely on letters and pictures but come and see. **W. H. STELLMACHER, 407-409 Clapp Block, Des Moines, Iowa.**

A BIG BARGAIN IN LAND A NICE smooth quarter of land in Anderson Co., Kan. All black tillable land, raises corn, oats, wheat and red clover. Well watered, fair improvements, 3 miles from town. Must sell within the next 30 days. A snap at $45 per acre. 80 acres in Allen Co., Kan., 4¼ miles from Colony, fine black land, lays well, good improvements, good water, school and church close, plenty fruit and shade; raises corn, wheat, oats and red clover; a fine little home. A snap at $45 per acre. Possession at once. If interested write for fuller description. No trades. Address **J.F. RESSEL, owner, Colony, Kansas.**

CLARK COUNTY, WISCONSIN VIRGIN land, easily cleared, good soil, healthful, climate, adequte rainfall; roads, churches and schools, creameries and markets; all conveniences of a well-settled, prosperous community.

$18 PER ACRE

On terms to suit you. Monthly payments of $12.50 if desired. Special bargains for those who buy before spring. Write for full particulars to **WEST-CANNON-BISSELL COMPANY, 97 Wisconsin St., Dept. H, Milwaukee Wis.**

DEATH OF OWNER forces this money-making farm at a sacrifice. 100 acres. Nearly level, rich land. Ten acres wood and timber. Ten-room house, 3 barns—32x45, 26x40, 20x30, hog house, henhouse, granary, wood house, plenty water, abundance of fruit, R. F. D. and phone; three miles to railroad town. $2,000 gets it. $1,000 cash. Balance time. **Hall's Farm Agency, Owego, Tioga County, New York.**

Safe, Sure, Large Returns in Taylor county, Wis. Rapidly developing dairy county. Land as productive as the corn belt. Much valuable timber. Big profits in cattle. We are **OWNERS**, improved and unimproved. Price $10 up. Ten years to pay. Send for list. We sell outfits (team, wagon, harness) on credit. A genuine opportunity for renters and wage earners. Get the facts from government records. You can **OWN** in Taylor county. Write today. **LOEB-HAMMEL REALTY CO. (not inc.), Box B, Medford, Wis.**

LAND BUYERS ATTENTION.—In order to close up estate must sell fine Iowa county farm. Located ¾ mile from shipping stations on 2 railroads. Reasonable price. Deal direct with owners. For full information call or address Henry G. Maas, 1223 Rochester Avenue, Iowa City, Iowa.

GOVERNMENT FARMS FREE. Our 112-page book "Vacant Government Lands" describes every acre in every county in U. S. How secured free. Latest diagrams and tables. All about Free Government Farms. Official 112-page book. Price 25c postpaid. WEBB PUBLISHING CO., Sta. H, St. Paul, Minn.

IRRIGATED LAND $45 and $50 an acre. Eight-year payments. Perpetual water rights. Big crops each year. County seat. Literature approved by state officials. Write us now. Wyoming Development Co., Wheatland, Wyo.

SOUTHEASTERN KANSAS IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

AUCTIONEERS LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

FARMS WANTED We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 33 Palace Bldg., Minneapolis, Minn.

FOR SALE Ten-acre suburban home in southern California by owner. Very fine climate. Address **A. E. Saxey, 181 N. Adams St., Riverside, Calif.**

WE SELL OCEANA FARMS—GREATEST fruit county. Also Potatoes, Corn, Alfalfa, Stock. List free. **HANSON & SON, Hart, Mich.**

Corn and cows are a winning combination in the Ozarks.

MR. Hosmer and his son bought a farm near Marshfield, Missouri, a few years back, at $10 to $15 per acre. To-day that farm couldn't be bought for $75 to $150 per acre, and is bringing an annual net income of over $5,000.

When the Hosmers took hold of this place, it was said that the corn couldn't be grown high enough to hide a 10-year old boy—but now they are making from 60 to 80 bushels *per acre* regularly. And they are averaging around $90 per year per cow!

H. S. Harris says: "My milk production for the six months from April to November (milking an average of 15 cows, about one-half of which are two-year olds), was 8,135 gallons, which sold at 16 cents per gallon, or $1,301.60. *Feed all raised on my farm*, except salt."

Mr. Holloway, another Ozark dairyman, says: "I find this country the best for farming and *far* the best for dairying. The healthful, mild climate cannot be beat. I know this, for I have traveled a great deal; have been in nearly every State in the Union."

These experiences prove what an expert on dairy husbandry said a while back: "Not only are the Ozarks adapted for dairying but are certain to be noted far and wide in the future for this industry Butter fat can be produced cheaper in the Ozarks than anywhere else."

With plenty of good pasture land, an unlimited amount of pure water, with soil that will grow every variety of grains and grasses, with short, mild winters that permit grazing most of the year and make expensive shelter unnecessary—stock raising of every kind is more profitable in the Ozarks.

Ozark farmers are producing pork at 2½ cents a pound, and selling it at 8 cents or more. They are making around $12 per ewe; with the sheep feeding almost entirely on native wild grass.

The closeness of Kansas City, Memphis and St. Louis—offering tip-top prices—has a great deal to do with the big net profits which Ozark farmers get.

But all these advantages mean more when it is realized that good land can be bought now in the Ozarks at $12 to $15 per acre. It's a proposition that deserves any man's serious thought and investigation right *now!*

A free book for you!

It's not the kind you can pick up anywhere. Double sized pages, 75 actual photo pictures of farms—some in full color. Written by a man who knows farming. Takes up the Ozark sections, county by county, and describes the farming conditions there. Also tells actual experiences of Ozark farmers. I haven't many copies of this book on hand; please drop me a postal to-day for your free copy.

FRISCO LINES

Frank Anderson, Director of Development, 1502 Frisco Bldg., St. Louis, Mo.

"Farmers' Pride"

A General Purpose Saddle That Fills Every Need. **Special Price for March and April** **$9.67**

Seldom is an opportunity offered to buy a good saddle at a low price, and never has so fine a saddle as our "Farmers' Pride" been offered at anywhere near the price we are quoting. Just another example of Sears, Roebuck and Co.'s policy of distributing dependable merchandise at prices based on production cost plus **one** profit.

This is the way we make it:

TREE—13½-inch, Morgan style, steel fork and horn; sheepskin covered bars, making the saddle easy on the horse's back.
SKIRTS—21 inches long.
RIGGING—Double cinch rigged, with 1-inch tie straps to tie; 4-inch soft hair cinches.
SEAT—Half leather covered, roll cantle.
STIRRUP STRAPS—1½ inches wide, full length, to buckle; fenders, 6½ inches wide, 13½ inches long, attached; 3-inch Texas bolt stirrups.
Weight of saddle, about 13 pounds; packed for shipment, about 20 pounds.

No. 10W3513021/4 Price.....$9.67

Send us an order for either or both of these items and we will ship promptly. Your money back if you are not pleased. Take advantage of these low prices now, as hides are scarce and leather is steadily advancing in price. This is an opportunity that will not be presented again. Our complete line of exceptional values in harness, saddlery and accessories is shown in our beautifully illustrated 80-page Special Harness Catalog. Write "Harness" on a postal card, sign your name and address and we will mail you this catalog postpaid. Act now and send us an order and save money.

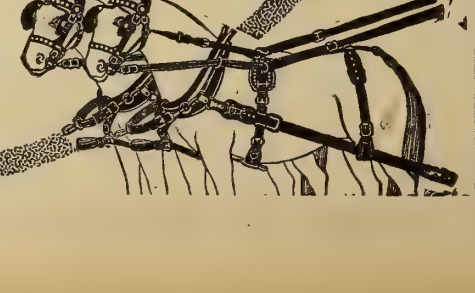
Our "Mansfield" Farm Harness

is still another money saving bargain in a strong, serviceable double farm harness worth almost twice the price we ask for it. Following are the specifications:

BRIDLES—⅞-inch short cheeks, round side reins, sensible blinds, nickel spots.
LINES—1¼ inches wide, 18 feet long.
HAMES—Wood, iron bound, square staple; Moeller hame tugs, jointed Concord clip attachments; 1½-inch breast straps and martingales, with collar straps.
TRACES—1¾ inches wide, Moeller clip cockeyes.
TRIMMINGS—XC buckles.
Weight, packed for shipment, about 80 pounds.
No. 10W35567¼ Price, without collars..... **$32.79**

PADS—Flat harness leather, felt lined; drop hooks and terrets; nickel spots; folded bellybands; 1⅛-inch hip and back straps; scalloped safes, cruppers buckled on; Cooper's trace carriers, nickel spotted on outside.

A BARGAIN ONLY $32.79



We guarantee this saddle or harness to give you satisfactory service.

Sears, Roebuck and Co.
Chicago, Ill.

NEWS OF THE SALE RING.

White & Smith's Short-horn Sale.

The offering of Short-horn cattle held at Chicago, Ill., February 12th, by White & Smith, St. Cloud, Minn., drew a good attendance, a large number of representative breeders being at the ringside. The cattle were presented in excellent condition and the fifty head sold made an average of $261. The top of the sale was $1,425, paid by J. G. Robbins & Son, Horace, Ind., for the show cow, Roan Queen, herself a many times grand champion and carrying a calf to the service of the grand champion, Ringmaster. The fine young cow, Butterscotch, with a bull calf at foot by Ringmaster, went to George H. White, Emerson, Iowa, at $500 and Gloster Queen 2d, with a heifer calf at foot by Ringmaster, fell to Robert R. Ward, Benton, Ill., on a bid of $435. The matured show and breeding bull, Superbus, with a strong record as a sire at Meadow Lawn, went to J. L. McMurray, Corydon, Ia., at the conservative price of $400, and J. R. Harlow, Kempton, Ind., secured good value in the ten-months-old Royal Master by Ringmaster at $310. There was a wide distribution of the cattle, showing very strongly the rising tide in the beef cattle market. Wm. Caruthers, San Francisco, Cal., was a strong bidder all through the sale, securing several head, and James Brown, Chicago, Ill., bought six good ones to add to the herd he is establishing on his farm near Wheaton, Ill. Iowa and Illinois buyers took the bulk of the offering. Leslie Smith conducted the sale in his usual satisfactory manner and Colonels Bellows, Jones and Robson did the selling. The following is a report in detail:

COWS AND HEIFERS.

Roan Queen, calved 1909; J. G. Robbins & Son, Horace, Ind	$1,450
Violet Ruby, calved 1910; University of Minnesota	330
Flower Girl 14th, calved 1911; Wm. Carruthers, San Francisco, Cal.	225
Butterscotch, calved 1910, and b. c.; Geo. H. White, Emerson, Ia.	500
Sweet Jasmine 4th, calved 1910; Ewing Bros., Pontiac, Ill	250
Sweet Jasmine 3d, calved 1907, and b. c.; J. A. Daniels, Williamsburg, Iowa	395
Queen Gloster, calved 1910, and h. c.; Robt. R. Ward, Benton, Ill	360
Gloster Queen 2d, calved 1908, and h. c.; Robt. R. Ward	435
49th Duchess of Gloster, calved 1909; Wainwright Bros., Hillsdale, Ill.	215
50th Duches of Gloster, calved 1910; J. A. Daniels	240
Cheerful 8th, calved 1910; Jas. Brown, Chicago, Ill	390
51st Duchess of Gloster, calved 1911; Wm. Carruthers	200
Cheerful 9th, calved 1911; Wm. Carruthers	175
Juno of Woodhill 6th, calved 1911; George J. Sayer, McHenry, Ill.	295
Juno of Meadow Lawn, calved 1912; J. A. Daniels	140
Juno of Woodhill 4th, calved 1909; A. J. Knuekey, Scales Mound, Ill.	180
Lavender Princess 7th, calved 1910, and h. c.; James Brown	250
Lavender Princess 8th, calved 1911; F. W. Harding, Waukesha, Wis.	225
Lavender Princess 5th, calved 1907; Thos. Stanton, Wheaton, Ill.	205
Lady Dorothea 6th, calved 1907, and b. c.; James Brown	330
Queen Caroline, calved 1912; McMillan & Sons, Rock Rapids, Ia.	100
Snow Queen, calved 1911; F. W. Harding	350
Heather Belle 5th, calved 1910; D. R. Hanna, Ravenna, Ohio	340
Heather Belle 6th, calved 1911; Thos. Stanton	250
Dainty Duchess, calved 1912; G. F. Hunt, Clear Lake, Minn.	165
Meadowlawn Duchess, calved 1911; Cahill Bros., Rockford, Iowa	200
Princess Lovat, calved 1906; Maasdam & Wheeler, Fairfield, Iowa.	175
Bright Star, calved 1907; Robert Crane, Baltimore, Md.	300
May Blossom 9th, calved 1910; University of Minnesota	250
May Blossom 10th, calved 1911; Robert Crane	175
Golden Sunbeam 4th, calved 1910; Cahill Bros.	205
Golden Sunbeam 2d, calved 1906; Maasdam & Wheeler	195
Sparkling Gem, calved 1909, and h. c.; James Brown	255
Fortuna Maid, calved 1911; Wm. Carruthers	180
Fortune Teller, calved 1912; James Brown	150
Columbia 13th, calved 1911; James Brown	200
Theresa 3d, calved 1910; Wainwright Bros.	155
Violet Hedgewood, calved 1911; Thos. Stanton	155
Village Belle, calved 1906; A. G. Artman, Elizabeth, Ill.	150
Village Belle 2d, calved 1909, and b. c.; Nelson Stead, Aledo, Ill.	230
Lady Daybreak 3d, calved 1909, and h. c.; Robert Crane	200
Lady Daybreak 5th, calved 1911; Wm. Carruthers	100

BULLS.

Superbus, calved 1904; J. J. McMurray, Corydon, Iowa	400
Mayflower Cardinal, calved 1911; Wm. Carruthers	300
Sunbeam Clipper, calved 1911; F. H. Gurney, Mendota, Ill.	160
Royal Clipper, calved 191; Finney & Johnson, Millington, Ill.	135
Royal Master, calved 1912; J. R. Harlow, Kempton, Ind.	310
Master Gloster, calved 1912; Wm. Carruthers	180
Master Graceful, calved 1912; A. G. Artman	125

$200

Takes possession of a fertile quarter section in

Southwest Kansas

There's not much vacant land left in Kansas. The five southwestern counties have remained unsettled and undeveloped because of inadequate transportation. The Santa Fe is building new lines to serve this territory, and thousands of farms next season will be put to creating wealth. This is your opportunity to get a good Kansas farm cheap. The terms are advantageous, the results certain.

If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of speltz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

There are some flowing artesian wells in this territory, and everywhere that wells have been put down water comes to within thirty to sixty feet of the surface. Irrigation by pumping will doubtless be commonly practiced, and the tremendously increased yields will pay big dividends on the small investment required for gasoline or oil driven pumps.

The climate is pleasant and healthful. Your boys and girls will find good schools. Churches, social clubs and farmers' institutes are being organized. Rural telephones and free delivery are coming in. In every way development is rapid, and only a few years will give you every advantage that older communities have.

You can secure a quarter section (160 acres) for only $200 down. The price is $10 to $15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

For further information write for illustrated descriptive folder containing map and full details.

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Topeka, Kansas

ALBERTA

The Price of Beef is High and so is the Price of Cattle.

For years the Province of **ALBERTA**, (Western Canada), was the Big Ranching Country. Many of these ranches today are immense grain fields, and the cattle have given place to the cultivation of wheat, oats, barley and flax, the change has made many thousands of Americans, settled on these plains, wealthy, but has increased the price of live stock.

There is splendid opportunity now to get a **FREE HOMESTEAD OF 160 ACRES** (and another as a pre-emption) in the newer districts and produce either cattle or grain. The crops are always good, the climate is excellent, schools and churches are convenient and markets splendid in Manitoba, Saskatchewan or Alberta.

Send at once for literature, the latest information, railway rates, etc., to

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Room 4, Bee Building, Omaha, Neb.
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315 Jackson St. St., Paul, Minn.

or write Superintendent of Immigration, Ottawa, Canada.

Electric Starting Gasoline Engine

The Electric Starting WOODPECKER

has all the *good* points of *all* good engines and a whole lot more. It is the *only* engine that has in itself *all* the valuable features you would insist on having in *your* engine if you built an engine yourself, after knowing all there is to know about gasoline engines. Made in Middletown for years.

Formerly Called Miami

Where else can you find a gasoline engine that starts on "compression" by the *touch of a button*, sure to work in any weather? That has a self-contained equipment that eliminates fussing with connections every time the engine is moved, that has a hopper cooler, the *only* simple and satisfactory way to keep the cylinder not too hot and not too cool—that is mounted on steel girder subbase—makes foundation needless, and allows placing anywhere at a moment's notice. Has speed regulator—can change speed while running.

In no engine except the Electric Starting Woodpecker can you find all these valuable features. We give

30 Days' Free Trial —No Money Down

—and, in addition, we give a strong guarantee that protects you in every way. Most astounding proposition. Don't miss it. Write us quick for full facts.

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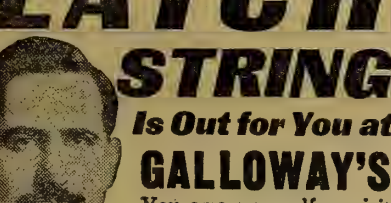

LATCH STRING

Is Out for You at GALLOWAY'S

You owe yourself a visit to Waterloo. Come! A little vacation right now will do you a world of good. Come! The moment you get off the car at Galloway Station, you're Galloway's personal guest—no expense, free entertainment—put up at our $60,000 Agricultural Club and enjoy every comfort and luxury. Remember, this Club was built for my farmer friends and their families.

Bargains—If You Want Them!

Go through my factories. See how Galloway Spreaders, Engines, Separators, Harrow Carts, are made. Satisfy yourself about quality—then if you like save big money on anything you need. I'll give you lowest, direct factory prices and a special 5% discount if you cut out and bring this "ad."

No Obligation to Buy

Look around. Have a good time. Get posted on real values. Then, buy if you want to—if not, all right! There are other factories in Waterloo. I'll put you in touch with my competitors so that you can get all the facts. Isn't that square? That's the Galloway idea. Everything fair and square at every turn of the road.

Write Me That You Are Coming

Wm. Galloway, Pres., WM. GALLOWAY CO.
108 Galloway Station, Waterloo, Iowa 217

Every **BOHON "Blue Grass" BUGGY** STANDS on my IRONCLAD

$30,000 2 Yr. Guarantee

I will ship you direct from the factory, at the factory price, any Buggy or Harness I make, and let you use it on the road for 30 days. If you don't find it just as my catalog says it is I will give you back all your money and pay the freight both ways. Every job I sell is guaranteed for two years, backed by a bond for $30,000 deposited in the Mercer National Bank of this city. Now send for my big

BOOK OF BUGGY BARGAINS FREE

It shows the latest styles in buggies, how they are made, how they are tested in ways no "cheap" Buggy could stand. I want you to have this book. It will please you. Just send your name and address on a postal TO-DAY.

D. T. BOHON, 221 Main St., Harrodsburg, Ky.

Loyal Knight, calved 1912; Wm. Carruthers ---------- 180

SUMMARY.

42 females ------$11,255; aver-----$268
8 bulls -------- 1,790; aver----- 224
50 cattle -------- 12,045; aver----- 261

The Widle & Sons Duroc Sale.

A splendid crowd was out to the sale of R. Widle & Sons, at Genoa, Neb., on October 10th and he sold forty head of his tops at an average of $74.65. The forty-eight head that he ran through the ring made an average of $68.70 and it was one of the best sales held this winter in the state. Col. Tom Callahan cried the sale and did good work and was ably assisted by Murray Putnam. Below we list those selling for $40 and above:

1. C. E. Peterson, Genoa, Neb---$125.00
2. Robt. Lisey, Wisner, Neb---- 100.00
3. Frank Desmond, Atlantic, Ia. 75.00
4. A. J. Deuer, Milford, Neb---- 115.00
5. Wm. Moderow, Beemer, Neb- 155.00
6. Clarence Wallace, Wisner, Neb. ---------- 87.50
7. W. J. Welsh, Genoa, Neb---- 45.00
8. A. J. Regier, Henderson, Neb. 140.00
9. Henry Koehlmoos, Pilger, Neb. 60.00
10. B. P. Cedar, Genoa, Neb----- 97.50
11. Fred Nelson, Lindsay, Neb-- 95.00
12. A. R. Barnes, Petersburg, Neb. ---------- 120.00
13. Wm. Moderow ---------- 105.00
14. A. W. Lamb, Albion, Neb---- 65.00
15. O. E. Green, Genoa, Neb----- 40.00
16. J. T. Armstrong & Son, Clarks, Neb. ---------- 55.00
17. A. M. Lidgaard, Bladen, Neb. 85.00
18. J. T. Armstrong & Son------- 105.00
19. Fred B. Nelson ---------- 62.50
20. Ira Black, Fullerton, Neb---- 55.00
21. A. Schramm, Monroe, Neb---- 42.50
22. O. E. Green---------- 45.00
23. H. F. Jensen, Henderson, Neb. 73.00
24. F. A. Mattoon, Monroe, Neb-- 47.50
25. F. F. Ksiazk, Genoa, Neb---- 47.50
26. Wm. Taylor, Ireton, Iowa---- 62.50
27. F. A. Limmerman, Creston, Neb. ---------- 80.00
28. Rapp Bros., St. Edwards, Neb. 66.00
29. Rapp Bros. ---------- 55.00
30. A. J. Deuer---------- 67.50
31. B. P. Cedar---------- 40.00
32. H. F. Rietz, St. Edwards, Neb. 47.50
33. Gus Krueger, Beemer, Neb--- 65.00
34. W. M. McClelland, Clarinda, Iowa ---------- 66.00
35. P. Neuhofel, Doniphan, Neb-- 55.00
36. Thompson Bros., Garrison, Kan. ---------- 60.00
37. Chas. Dye, Comstock, Neb--- 46.00
38. Gus Rapp, Chambers, Neb---- 51.00
39. F. A. Mattson---------- 40.00
40. Gus Rapp ---------- 52.00
41. F. L. Rumsey, Fullerton, Neb. 50.00
43. Gus Rapp ---------- 42.00
44. Gus Rapp ---------- 40.00
45. Rapp Bros. ---------- 50.00
47. John Hammer, Greenwood, Neb. ---------- 52.00
49. W. H. Swartzley, Riverdale, Neb. ---------- 100.00

The Nash & Son Poland China Sale.

One of the good sales of Poland Chinas of the season in Nebraska was made by J. T. R. Nash & Son, Minden, Neb., on February 8th. We do not mean that a high average of prices was reached, but we do mean that one of the really good offerings of great big, smooth gilts was sold. There was only a fair local attendance, but quite a good outside gathering, and as there were so many good gilts there was not as high a top as there might have been otherwise; but with a $60 top and a $44 average one will see that it was a very uniform sale. The get of Gold Medal, one of Nash & Son's boars, was in right good demand. Practically everyone from outside was after that breeding. Gold Medal is just one of the best sow sires in Nebraska today. His gilts are big and the real brood sow kind. Col. H. S. Duncan did the selling and certainly put forth every effort to make the sale a success. Those selling for $40 or over are listed:

2. H. T. Blank, Franklin, Neb---$60.00
3. Alvin Windom, Nodaway, Iowa 42.50
4. R. R. Baird, Central City, Neb. 51.00
5. J. P. Peterson, Norman, Neb-- 41.00
7. John Peterson, Heartwell, Neb. 42.50
8. W. M. Bruce, Bertrand, Neb-- 52.50
9. Frank Wilson, Minden, Neb--- 41.00
11. Coleman Bros., Ithaca, Neb--- 60.00
13. G. H. Kleen, Franklin, Neb--- 44.00
14. Geo. Gleason, Heartwell, Neb-- 40.00
15. W. T. Barnes, Bertrand, Neb-- 52.50
16. W. R. Pedley, Bertrand, Neb-- 45.00
18. W. H. Barr & Son, Villisca, Ia. 40.00
20. John Gharst, Riverton, Neb-- 51.00
21. Chas. Linn, Minden, Neb------ 50.00
22. W. T. Barnes---------- 57.50
24. G. H. Kleen---------- 50.00
25. H. T. Blank---------- 45.00
26. G. H. Kleen---------- 42.50
28. Frank Wilson ---------- 47.00
29. Geo. Gleason ---------- 46.00
30. H. T. Blank---------- 47.50
32. T. W. Cavett, Phillips, Neb--- 57.50
36. Chas. McClure, Bladen, Neb--- 50.00
37. E. C. Hummel, Heartwell, Neb. 43.00

Martin's Short-horn and Poland Sale.

Theo. Martin, Bellevue, Iowa, held his sale of Short-horn cattle and Poland China bred sows on February 13th as previously announced in this paper. The nine bulls sold were an extra good lot and it is in very few sales that you see as many good ones sold. Some of the best bulls sold under their value, but Mr. Martin was game and allowed buyers to take them at their own price. Monarch Viceroy, the herd bull, sold to Schultz Bros. at $210, a very moderate price for so good a bull. Count Rosebud, an extra good yearling, sold at the same price to Dan Noonan. The top female was Sweet Fashion, the two-year-old show heifer, she selling to L. T. Frederick, Memphis, Neb., at $220. Those selling above $100 are listed below:

BULLS.

Monarch Viceroy, calved 1905; Schultz Bros., Zwingle, Iowa---$210.00
Monarch's Rosebud, calved 1912; Will Berryman, Scales Mound, Iowa ---------- 185.00
Monarch Victoria, calved 1911; John Husch, Cascade, Iowa---- 175.00

The Car With a Pedigree

There is the same pride in the possession of a "Jack Rabbit" car that there is in the ownership of pure-bred stock. It's the most famous of all automobiles—the car with the choicest pedigree.

The Apperson Jack Rabbit Car

is the direct descendant of the first American-made automobile. This first car was built by the Apperson Brothers, here in Kokomo, in 1893.

While other cars were yet crude and unreliable, the Apperson Brothers made their car reliable and roadworthy. Apperson-made cars have always been

Famous for Durability

Some of these cars are still in use after a service of 17, 18 and 19 years. The average age of the 17,000 cars already in use is 8 years. No "Jack Rabbit" has ever worn out. No other car can approach this record.

Lowest Upkeep

The Apperson is the lifetime car—20 years of proof back of it—20 years or longer of service in it. It's the cheapest car to maintain, too. Easy on tires, low in fuel cost. Almost no expense for mechanical upkeep.

The "Jack Rabbit" is the most satisfying car to own. Powerful, beautiful, comfortable—a real car in every way. **Write for catalog today. NOW.**

Electric Self-Starter and Electric Lighting Furnished if Desired

Apperson Bros. Automobile Co.
319 Main St., Kokomo, Indiana

TWENTIETH 1893 1913 ANNIVERSARY
I AM FOR THE MAN WANTING A TRULY GOOD CAR
Apperson
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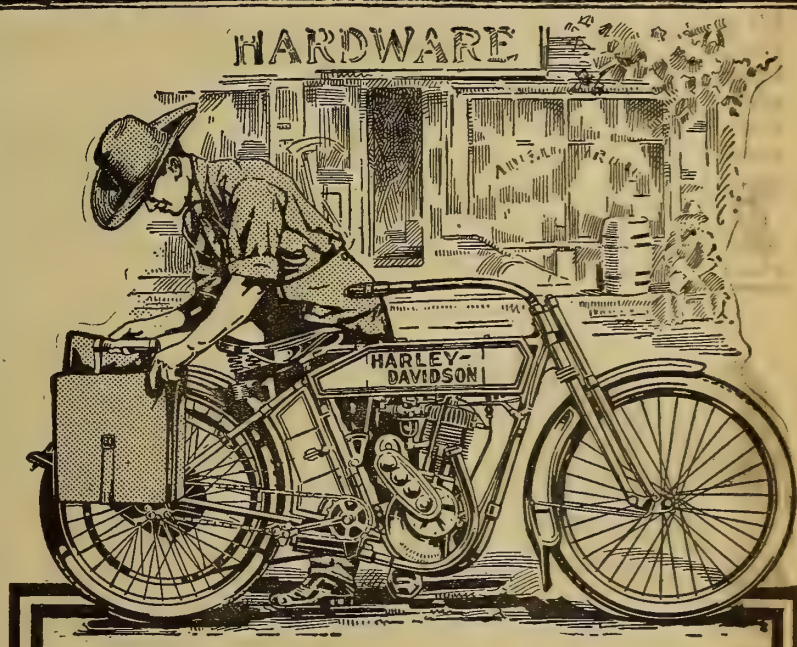
TWENTIETH 1893 1913 ANNIVERSARY



Ten Miles For A Cent

A HARLEY-DAVIDSON MOTORCYCLE can be operated at a cost of from one-tenth to one-sixth cent per mile. It costs nothing when idle and will last for years. It is ideal for quick trips to town for repairs and provisions and will carry an extra passenger or freight weighing up to 250 pounds. The

HARLEY-DAVIDSON

is the only motorcycle which has a Ful-Floteing Seat. This device does away with the jolts, jars and vibration so unpleasant on the ordinary motorcycle.

The Free-Wheel Control, another patented feature, does away with the objectionable hard pedaling or running alongside to start. Instead the Harley-Davidson can be stopped and started by the mere shifting of a lever.

Over 3700 Harley-Davidsons (more than all other makes combined) in use in the Government R. F. D. Service Send for literature.

HARLEY-DAVIDSON MOTOR COMPANY
Producers of High Grade Motorcycles For Eleven Years
698 A Street MILWAUKEE, WISCONSIN.

Bill Galloway Says:

"I Want to Send YOU One of My 1913 Model Spreaders Right to Your Farm—FREE!"

Not One Cent to Pay—No Bank Deposit

Thirty Days' Trial Absolutely FREE!

Just Send Me The Coupon—Do It To-day

DON'T send me a dollar—*no, not one cent!* Keep your money—*let me take the risk.* And I'll do it willingly. Just tell me—*"Galloway, I'm willing to give your new 1913 spreader a good, fair trial at your risk." That's all I ask.* You'll get the spreader just as quick as I can ship it. Test it any way you want to. Then decide whether you want to keep it on this amazingly liberal proposition or send it back and let me pay the freight both ways. I'll put it squarely up to you and I'll accept your decision without a word or question. Now let me tell you briefly

Why I Am Making This Offer:

Now, I know that you can tell more about my spreader **in a half-hour's actual use** than you could by reading all the ads I ever wrote. **So I'm just going to send you the spreader itself and let you be the judge.** I want you to put it through every test you can think of. Take the toughest, tramped-down, unrotted slough-hay manure from the calfyard. **If it's frozen, so much the better.** Drive out into the field—**get your team into a fast trot AND SLAM IT IN GEAR!** Do that *again* and **again,** and **AGAIN!** Then, if you can find any fine, powdered manure, load it in and see how it handles that.

Notice how easy it is to load the low-down body. See how easily **two** horses can do the work it uses up **three or four** horses to do with the big, horse-killing types. Examine the **exclusive patented features.** It's the **only double-drive** spreader on the market having power furnished by BOTH wheels alike to move the load and run the beaters. It's the **only roller-bearing** spreader. It's the **only endless apron, force-feed** spreader. This feature alone makes the Galloway worth $25 more than any other spreader in the world. Notice how the pull between the wheels is brought **entirely** upon the reach, making it **not only the lightest, but the strongest and most durable spreader known.** Use the Galloway a whole month. If that isn't enough, say so, and I'll let you keep it for two or even three months. Then, if you can't honestly say—"Galloway, this is the best spreader in the world"—**then I want you to ship it right back to me and I'll cheerfully pay the freight both ways,** so that the trial won't cost you one single cent.

The Only Way Is the Galloway

Selling Direct From Factory to Farm!

If you do decide to keep my spreader, after having had the free trial, I'll put $25 to $50 in your pocket right at the start. You don't pay any middlemen's profits—you don't pay any salesman or dealer to help you make up your mind. The whole deal is just between you and me—**AND YOU ARE THE SOLE AND ONLY JUDGE.**

Now, Here's Something I've Never Done Before:

I'm going to make you a better proposition for 1913 than anything I've ever made. I'm going to tell you how you can get your spreader **PARTLY OR ENTIRELY FREE!** There's no work, no soliciting, no canvassing—I mean exactly what I say. Can't tell more about it here, but I'll tell you all the details in a personal letter when you write me.

Here's the Kind of Letters I Get Every Single Day

Gentlemen:—I received my spreader and came out home and got a neighbor to help me start it. We loaded a load of light manure and drove on solid ground. The machine went off without a hitch—just fine. So we drove back, and loaded a load of heavier manure and tramped it and drove to the field on a piece of soft plowed ground, and my team weighing 2325 lbs. just went right through with it. My neighbor said he could not see any difference in the draft when in gear or out. From what I have seen the No. 4 is as good as you say. Very truly,
Elk City, Kan. J. D. GRAY

Gentlemen.—The more we use the spreader the better we like it. One of the most attractive things about it is its light draft; two horses take it easily, loaded full up, over soft ground. Yours very truly,
Wappacoma, W. Va. E. HERRIOTT & SON.

Send the Coupon or a Postal or Letter Now!

Get My Three Great Books FREE!

I want you to get my great book "A Streak of Gold" **free.** It's the only book of its kind in the world. It tells you how to make manure so valuable that it's just like finding gold on your farm. Explains how to produce manure; how to care for it, how to spread it. It's a regular fertilizing manual in clear, plain English. The regular price is one dollar, but I'll send it free. Then I'll also send my other two handsome big books and a complete explanation of my big 1913 offer.

Now *write.* Use the coupon or a postal or letter if you want to, but don't put down this paper until you've clinched this great 1913 offer.

These Big Books FREE

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President
WM. GALLOWAY COMPANY
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Waterloo, Iowa.

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I'll admit I'm interested in your new 1913 Spreader Proposition. Send me full particulars and your three books—including "A Streak of Gold"—all FREE.

Name.....

Town.....

R.F.D.....State.....

We will also send you FREE our new 5-color, big, 144-page general merchandising book—giving 1,000 or more bargains in machinery, buggies, harness, furniture, rugs, draperies, etc.; everything you need for the home.

$39.50 and up for Spreader Attachment

—

$64.75 and up for Complete Outfit

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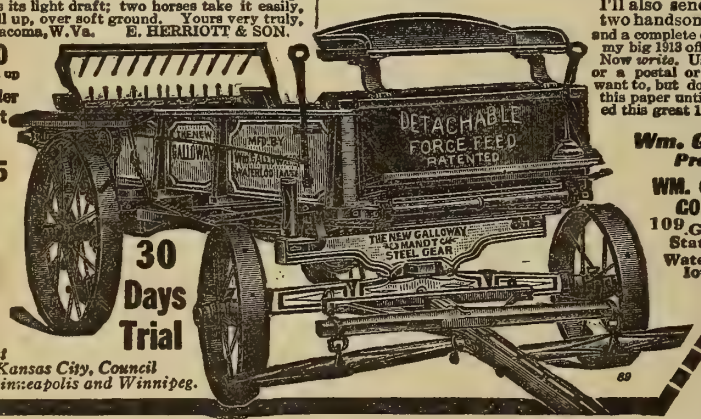
We carry Spreaders in Stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg.



30 Days Trial

Count Rosebud, calved 1911; Dan Nooman, Bernard, Iowa..... 210.00
Fashion Leader, calved 1912; John Theisen, Bellevue, Iowa..... 175.00
Lawn Dale Prince, calved 1911; V. Henneberry, Bernard, Iowa.. 150.00
Monarch Sultan, calved 1912; J. Keeter, Bellevue, Iowa..... 115.00
Lawndale King, calved 1912; Ed Rooan, Bellevue, Iowa..... 115.00

FEMALES.

Victoria Pride, calved 1903; A. N. Phillips, Bellevue, Iowa..... 180.00
Strathallen Lass, calved 1903; G. H. Sieppel, Dubuque, Iowa..... 140.00
Sweet Fashion, calved 1911; L. T. Frederick, Memphis, Neb..... 220.00
Lady Victoria, calved 1910; W. D. Cook, Aledo, Ill..... 175.00
Viscountess, calved 1907; A. G. Artman, Elizabeth, Ill..... 205.00
Lady O. K., calved 1906; J. G. Gallman, Van Horne, Iowa..... 130.00
Princess Sharon, calved 1910; J. G. Gallman 117.50
Lawndale Gloster, calved 1912; A. N. Phillips 152.50
Monarch's Butterfly, calved 1912; L. H. Brandt, Garnavillo, Iowa 100.00
Princess Sharona, calved 1908; G. H. Seippel 150.00
Lawndale Princess, calved 1912; Ray Miller, Dubuque, Iowa..... 100.00

POLAND CHINAS.

2. E. W. Kreischer, Mt. Vernon, Ia. $50
5. H. F. Strickler, Mt. Carroll, Ill.. 46
6. Ed Rooan 43
7. John Theisen 43
12. A. N. Phillips..... 40
15. John Houselog, Bellevue, Iowa.. 40
16. Clarence Wiese, Bellevue, Iowa.. 51
17. Peter Beck, Maquoketa, Iowa..... 41

SUMMARY.

9 bulls .....$1,417.50; aver.....$157.50
14 females ... 1,925.00; aver..... 137.50
23 cattle ..... 3,342.50; aver..... 145.50
31 hogs ..... 1,127.50; aver..... 36.50

The Lonergan Poland China Sale.

A splendid crowd of breeders and farmers attended the D. C. Lonergan sale at Florence, Neb., on February 12th and he sold fifty-five head of Poland Chinas at an average of $70. The top was Victor's Metal, a daughter of Big Victor, and she went to Chas. Grau at $157.50. It was one of the best offerings Mr. Lonergan has ever made and while the outcome was very satisfactory it was deserving of more money. Col. Harve Duncan cried the sale. Below we list those selling for $50 and over:

0. I. N. Minnick, Council Bluffs, Iowa .....$ 52.50
00. Chas. Grau, Bennington, Neb. 62.50
1. O. C. Cowell, Hebron, Neb.... 145.00
2. C. E. Osborn, Eagle, Iowa..... 115.00
3. C. E. Osborn..... 105.00
4. Harry Dodds, Florence, Neb.. 125.00
5. Chas. Grau 55.00
6. Chas. Grau 60.00
7. Chas. Grau 157.50
8. C. W. Hutchins, Weeping Water, Neb. 52.50
9. Chas. Grau 75.00
10. J. W. Hall, Valley, Neb..... 57.50
12. H. B. Francisco, Hastings, Neb. 62.50
13. F. M. Harney, Julian, Neb.... 52.50
14. M. C. Warren, Hastings, Iowa 65.00
15. E. A. Schnitker, Nebraska City, Neb. 65.00
17. F. M. Harney..... 60.00
18. Meese & McNutt, Ord, Neb.. 70.00
19. Harry Dodds 67.50
20. L. D. Owens, Elner Springs, Cal. 100.00
21. W. M. Shrader, Stuart, Iowa.. 97.50
22. Chas. Grau 60.00
23. Wm. Kippel, Columbus, Neb. 62.50
24. Thos. Millett, Gregory, S. D.. 60.00
26. Wm. Kippel 52.50
29. G. E. Paulson, Carroll, Neb.... 52.50
33. Gilbert Johnson, Osceola, Neb. 57.50
31. D. Bolte, Waco, Neb..... 50.00
32. F. M. Harney..... 52.50
30. E. A. Schnitker..... 50.00
34. Chas. Grau 105.00
35. Harry Dodds 95.00
36. Harry Dodds 95.00
37. Harry Dodds 95.00
38. I. N. Minnick..... 60.00
39. W. H. West, Shubert, Neb.... 62.50
43. Chas. Grau 55.00
44. M. C. Warren..... 75.00
45. Thos. Millett 70.00
47. R. P. Roggenbach, Wisner, Neb. 70.00
48. August Gorder, Plattsmouth, Neb. 52.50
49. J. H. Cole, Council Bluffs, Ia. 67.50
50. J. E. Smollin, Schuyler, Neb.. 70.00
52. M. C. Warren..... 72.50
53. I. N. Minnick..... 62.50
55. Wm. Kippel 67.50
59. I. N. Minnick..... 52.50

Skillen's Duroc Sale.

R. M. Skillen, Greene, Iowa, held his second annual sale of Durocs on February 10th. Mr. Skillen sold a great lot of sows and at low prices, considering their quality. S. O. Smalling, Laporte City, Iowa, secured an exceptional bargain in No. 1 at $70. Thos. Neal secured the top sow in No. 16 at $75. N. G. Kraschel sold the offering in a very creditable manner. Those selling above $40 are listed below:

1. S. O. Smalling, Laporte City, Iowa $70.00
2. I. P. Candle, Greene, Iowa..... 41.00
4. Oliver McGee, Greene, Iowa... 62.00
5. Oliver McGee 46.00
6. M. E. Merfield, Greene, Iowa... 62.00
8. J. T. Primm, Nashua, Iowa..... 50.00
11. J. E. Wise, Greene, Iowa..... 41.00
13. A. Schroge, Bristow, Iowa..... 56.00
14. Cahil Bros., Rockford, Iowa... 53.00
16. Thos. Neal, Bristow, Iowa..... 75.00
17. S. O. Smalling..... 47.00
18. A. Schroge 57.50
24. A. Fowler, Fairbanks, Iowa... 40.00
28. F. W. Laads, Waucoma, Iowa.. 46.00
36. J. H. Morf, Fayette, Iowa..... 52.00
37. Oliver McGee 47.00
38. Oliver McGee 44.00
39. Ray Goodsell, Greene, Iowa... 51.00

SUMMARY.

40 head .....$1,760; aver.....$44

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

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Double Set of Burrs grinding at same time. Many thousands in use—ground millions of bushels. 2-horse mill grinds 20 to 50 bushels per hour; 4-horse mill 40 to 80 bushels. We also manufacture the **Famous Iowa No. 2 mill for $12.50** Write for free illustrated catalog of Feed Mills and Hot Air Furnaces.

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FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c a rod for 47 inch high stock fence; 28 1-2c a rod for a 50-in. heavy poultry fence. Sold direct to the farmer on **30 Days Free Trial. Special barb wire, 80 rod spool, $1.85.** Catalog free.

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CYCLONE LAWN FENCE

is the highest grade fence on the market, heavier, stronger and closer spaced than any other—rust-proof, durable, and made by the exclusive Cyclone method of weaving which makes it sag-proof.

Cyclone Fence *COSTS LESS* than inferior makes because it is made in enormous quantities in one of the biggest fence factories on earth.

CYCLONE VICTOR FARM GATES

are heavily galvanized, built for strength, reliability and convenience. Heavy tubular steel frames and rust-proof fabric. Double raising device; automatic stock proof lock; adjustable stretcher bar holds fabric tight and leaves frame free from holes that weaken it.

Big Catalog and information FREE. Write today.

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Dept. 76 - - WAUKEGAN, ILL.

SAVE-THE-HORSE
(Trade Mark Registered.)

THE TIME IS NOW

All the winter long, the troubled owner of a lame horse reads our advertisements. Then, day after day slips away, while he talks, laments, listens, takes advice and **hesitating—FAILS TO ACT**—till the Springtime is on him and his horse is not yet able to work. Meantime the thrifty, prosperous, resolute man, reads, considers the evidence carefully—Decides Promptly—and his horse is working in, say, ten days to two weeks. That's exactly what happens every winter.

We Originated the treatment of horses by mail—Under Signed Contract to Return Money if Remedy Fails—and every minute of every day for seventeen years our advice and treatments have been on the way wherever mails go and horses are. Our charges are moderate. Spring work is near; Write.

Our Latest Save-The-Horse BOOK is a Mind Settler—Tells How to Test for Spavin—What to Do for a Lame Horse—Covers 58 Forms of Lameness—Illustrated But write describing your case and we will send our—BOOK—Sample Contract and Advice—ALL FREE—to (Horse Owners and Managers—Only.)

TROY CHEMICAL CO 3 Commerce Ave., Binghamton, N. Y.
Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by us Express Prepaid.

LET THE WIND PUMP YOUR WATER FOR NOTHING

WHY PAY FOR GASOLINE WHEN WIND IS FREE!
Get a Big, Heavy, Powerful, Light Running, Double Geared

SAMSON WIND MILL

SEND FOR CATALOG
We also build Ideal Feed Mills, Pump Jacks, Hand Grinding Mills for Poultry Raisers, Gasoline Engines, Ensilage Cutters and Brass Candle Sticks

STOVER MANUFACTURING COMPANY
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SHORES-MUELLER CO.
Shores REMEDIES
EXTRACTS SPICES

Wanted
Farmer or Farmer's Son
with rig in every County to introduce and sell Family and Veterinary Remedies, Extracts and Spices. Fine pay. One man made $90 one week. We mean business and want a man in your County. Write us.
Shores-Mueller Co., Dept. 69, Cedar Rapids, Iowa

Cure That Horse

Don't Ruin Its Disposition or risk crippling or killing it by use of unknown methods. The *certain cure* for Curbs Splints, Spavins, Cuts, Bunches, etc., is

QUINN'S Ointment

Used for over 30 years—the *old reliable, tested* cure. Druggists sell it, or sent anywhere for $1—money back if not satisfied. Free Booklet—"Protecting Your Investment in Horseflesh."
W. B. EDDY & CO., Dept. H ALBANY, N. Y.

VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

LUMP JAW.

Have a three-year-old cow that has a lump on her left jaw which runs some. I suspect that she has lumpy jaw. Can it be cured, and if so, how?

If the cow is in good flesh, better sell her to the butcher or slaughter her for meat, for lumpy jaw does not affect the flesh of the body, if confined to the head and not in an advanced condition. Treatment of a severe case rarely proves profitable, although it may succeed in time. Treatment consists in cutting out the affected mass and applying caustics to the wound. It is best to have the operation performed by a veterinarian.

BLOOD WORMS.

My two three-year-old horse colts are very poor, though I feed them bright timothy hay, chop corn, oats and oil meal and they have a fairly good appetite. I found little red worms in their droppings. Have given them medicine recommended by a veterinarian, but nothing seems to help them. They have been looking badly for three months.

When a colt becomes infested with these blood worms, as they are called, it rarely survives. To prevent infesting by worms try to provide new, clean pasture for young colts in spring and in addition feed them generously before and after weaning and allow free access to a mixture of two parts of salt and one part each of dried sulphate of iron and sulphur. If the colt will not lick this mixture now, mix two teaspoonfuls of the powder in the feed night and morning.

ABORTION.

Have been having some trouble with my cows calving too soon and would like to ask a few questions. (1) Can heifers contract contagious abortion by running in the same pasture or yards with cows affected with it? (2) Do cows become immune after aborting a few times? (3) If they become immune will their heifer calves be immune? (4) Is there any vaccine or serum made to prevent or cure the disease? (5) What does the carbolic acid treatment consist of?

(1) Yes, but infection more commonly occurs in the stable. (2) It is generally held that they become immune after a time, but they continue to spread the infection. (3) No. (4) No vaccine has thus far been made that has proven satisfactory as a cure or preventive. (5) drams of crude carbolic acid are well diluted with water and mixed in the soft feed of each pregnant cow, starting at the end of the second month and giving it every other night during alternate fortnights until the end of the seventh month of pregnancy.

RICKETS.

Have a lot of twenty-two head of Duroc Jersey hogs of April farrow which I started to fatten about eight weeks ago. In the last two weeks four of them have become crippled so that they walk on their heels, some on their front feet and some on their hind feet and the legs bow in. Their toe nails get long and turn up. They have a pen 16x12 with a cement floor which is always kept well covered with dry bedding. They have a lot about five rods square. If food is placed before them they will eat well, but won't get up.

Your crippled hogs are affected with rickets. This is due to malnutrition and that often is associated with the presence of intestinal worms. Often, however, it is induced by the feeding of incomplete rations and allowing too little out-door exercise. Make the pigs take abundant exercise out of doors every day. Do not feed corn. Substitute a simple ration of milk, middlings, a very little corn meal and flaxseed meal and add one ounce of limewater to each quart of slop fed.

COUGH.

We have a young cow that coughs quite hard and has ever since October, at which time we purchased her. Is there anything I can give her?

Whenever a cow suffers from a chronic cough, lose no time in having her tested with tuberculin, as tuberculosis always is to be suspected in such a case. Cough is merely a symptom of irritation which may be due to any one of a large number of different causes, but until the test has been applied, we would not feel justified in prescribing treatment.

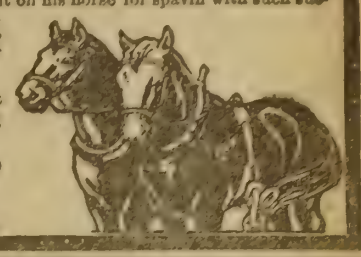
Removes Shoe Boils

Sloan's Liniment will remove shoe boils and any enlargement—kill a spavin, curb or splint. A reliable remedy for sweeny, fistula and thrush.

"Your Liniment is the best made. I have taken very large shoe boils off a horse. I cured a cow that had diarrhoea so badly she could hardly walk. I have healed a quarter-crack on a black mare, and a sore neck on three horses. I have also cured grease heel on a mare." MR. ANTHONY G. HIVER of Oakdale, Pa., R.F.D. 1, Box 47.

SLOAN'S LINIMENT

"We have a customer that used Sloan's Liniment on his horse for spavin with such success that the horse now appears as well as ever. We consider it the best remedy for curbs, splints, abscesses or any enlargement."—KEANE BROS., 601 Albany St., Boston, Mass.



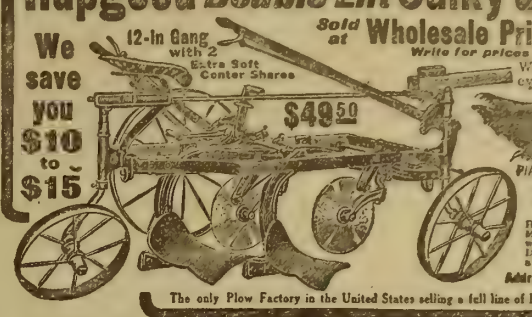
Healed Fistula.

"I used Sloan's Liniment on two cases of fistula that were pronounced incurable, but I healed them with Sloan's Liniment, and the horses are at work now." E. W. BLOOD, V. S., Golden, Colo.

AT ALL DEALERS. PRICE, 50c. & $1.00
Sloan's Book on Horses, Cattle, Hogs and Poultry sent free.
Address, DR. EARL S. SLOAN, Boston, Mass.

Hapgood "Plasa Bird" Double Lift Sulky and Gang Plows
Sold at Wholesale Prices Direct to the Farmer
Write for prices delivered at your R. R. station.

We save you $10 to $15



We absolutely guarantee this plow equal in every respect to any plow on earth, and will refund your money if not entirely satisfactory to you. These plows are made of iron and hardened soft center steel throughout, perfect in construction, ingenious in design, symmetry in bending, perfection in work, light draft, and backed up by 36 years' successful experience in the plow business.

Write for our big free catalogue of Complete Disc Harrows, Weeding Hoes, Buggies, Harness, Sewing Machines, Stoves, Ranges, a thousand other things you want, and our $35.00 Celebrated Hapgood Riveted Disc Gang Plow and our $37.50 Auto Seat Top Buggy, a wonderful bargain.

Address HAPGOOD PLOW CO., Box 602 ALTON, ILL.
The only Plow Factory in the United States selling a full line of Implements direct to the farmer at wholesale prices.

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TO ANY STATION EAST OF ROCKY MOUNTAINS
except Texas, Okla., Colo., N. D., S. D., Wyo., Mont., N. M., La., Ga., Ala., Miss. and Fla., on all orders of three rolls or more. Special prices to these States on request. Highest quality guaranteed—we don't sell seconds, remnants or mill-ends.

One-Ply, weighs 35 lbs.,	108 square feet,	per roll,	$1.10
Two-Ply, weighs 45 lbs.,	108 square feet,	per roll,	1.30
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TERMS CASH. We save you the wholesalers' and retailers' profit. These special prices only hold good FOR IMMEDIATE SHIPMENT. Write for free samples or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to the Southern Illinois National Bank. Address,

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DEPT. 118 East St. Louis, Illinois, or
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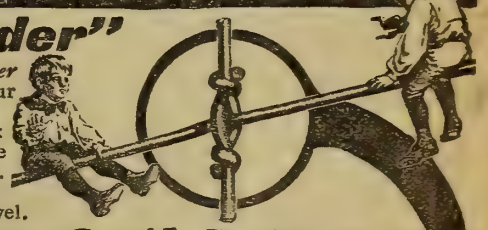
CENTURY GUARANTEED FOR 25 YEARS

APEX FENCE
TRADE MARK

"Made to Order"



Apex Fence is just like *made-to-order* clothes. It fits every roll of your land—stands straight, tight and trim, no matter how hilly. Apex Fence *can't* buckle or strain at the joints—it *can't* sag, bag or snap. It follows hills and hollows and is even and smooth as on the level.

The Most For Every Cent! The *swinging joint alone* makes Apex Fence worth more. The upright stays clasp the line wires firmly, yet the line wires swing with the land, up or down, so the fence is always upright. It is the easiest fence to put up, and saves you time, labor and expense in building fence. Then Apex is made of genuine Open Hearth Steel and heavily and thoroughly galvanized.

Compared with these good qualities, the fences which stretch hard, break or twist the joints, or bag and need repairing soon are at best "shoddy goods." Do away with such troubles by putting up Apex Fence NOW.

Write Us Today! Read the facts we want to send you. The purchase of any fence requires too big an outlay of money to make a mistake. Read the Apex booklet—then decide. Read more about the famous "swinging joint"—more about Apex Material and Construction. We may have an Apex dealer near you—in any case if you are interested you can be supplied promptly and at the right price. Address

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Water Supply for Country Homes.

THE problems of water supplies in country and village are of a somewhat different order from those of supplies in towns and cities. In the latter the various families are possessed of common water supplies and provide common sewer system under municipal control, while in country and village homes each family has to face and solve the water problem for itself and has to provide its own means of drainage. Thus the water supply question in the country largely hinges on the local conditions, but when these are carefully inquired into it will nearly always be found that purity of country water supplies is largely a problem of local, domestic and animal sanitation.

Let us look at the sources of water supply in our rural communities. We find that we depend very largely for our drinking water on the shallow or surface well spring; occasionally a lake or stream is the source of supply. Rain water is much employed for general cleansing purposes, but is seldom a source of drinking supply, though when collected properly and well stored it is a good, safe water, though rather unpalatable to those accustomed to our hard waters.

Considering first the surface or shallow well as to its sources of supply, character of its water and the means by which matters of dangerous character may gain entry. By a surface well is meant one which depends for its supply on the rain and melted snow waters which are absorbed by the soil and which seep down into the subsoil till held by the first impermeable stratum of rock or hardpan. Along this stratum the water oozes gradually or may even flow in small streams, flowing usually in the direction of the general dip or fall of the country. While these wells are called surface or shallow wells, such wells may, so far as actual depth is concerned, vary from four to five up to several hundred feet, all depending on depth of water retaining stratum. If this impermeable stratum makes its way to surface by a fall in the ground (gradually or abruptly) then such water flows out on surface to form a surface spring, or form a marshy spot. The source of supply here, then, is the ground water, which rises and falls with the amount of rainfall, the porosity of the soil and the dip of the ground at the point at which water-bearing layer is tapped. Such a well practically constitutes a drainage basin for the ground or subsoil of its neighborhood as distinct from the surface run-off water. The rain, in soaking into the soil from the surface, naturally carries with it in solution and suspension considerable soluble material from the air and soil, and many minute particles. Most of the particles become gradually filtered out in its passage and the dissolved matters much altered and purified as the soil has marked purifying properties, especially if not over-worked, when it becomes "soured or choked" and unable to effect purification. The general character of the water in a surface well depends on many factors, such as character of the soil, whether sand, clay, gravel, rock, etc.; the amount of protection of well openings; the amount of water used, etc., but from the health viewpoint much more depends upon the character of soil in the drainage area of such wells as regards the presence of human or animal wastes, vegetable or plant decomposing material, or of deleterious mineral substances, these being stated in order of their importance. Practically the only effects produced by ordinary mineral, or vegetable matter (undergoing decomposition) are to induce such gastro-intestinal disturbance with diarrhoea, but with the entry of animal waste, and especially human excretions, there is added the danger of production of special diseases like typhoid fever, acute dysentery, cholera, etc., because the germs of these diseases are given off in the excreta, hence if gaining entry to water can be carried to others. If the human or animal wastes carried thus into water do not contain these special germs, then nothing more serious will be produced by such material than by presence of equal amounts of decomposing vegetable matter. Thus in my work I have often been told when condemning a well as containing human or animal wastes that the well was in use before I was born, that no illness had ever been traced to the water and hence there was no valid reason for condemning the well and stopping use of the water. I can only say that such people have been lucky for once there is human waste gaining entry there is the possibility of introduction of the special disease-producing germs.

Now in all works on sanitation classifying sources of water supply as to disease carrying possibilities, the surface well is classed as potentially dangerous. Why is this? Surface well water may be water as good and safe as any other natural water. When our country was younger such waters were reasonably safe, but with longer settlement and a poor or indifferent idea of house sanitation we have allowed the drainage area of many of our wells to become polluted from human or animal waste, or have been so indifferent in protection of the well opening as to allow such pollution to gain entry directly through the well mouth.

During the past few years I have had an opportunity of examination and analysis of nearly 1,000 farm, village and cheese factory water supplies and I find that on an average two-thirds of these supplies show more or less pollution with animal or human waste material—sure a very poor record. Critics may say, and to a certain extent the criticism has weight, that I only have had the suspicious wells called to my attention. Still, in several systematic investigations of the well water of certain villages, and of cheese factory waters of certain districts, the two-third ratio of polluted samples holds good, in fact, in some cases, the pollution reaches a higher figure. Thus, in a very recent examination in one small village with fourteen well waters, but three were found not polluted, i. e., nearly 80 per cent were infected with bacteria of human or animal excreta.

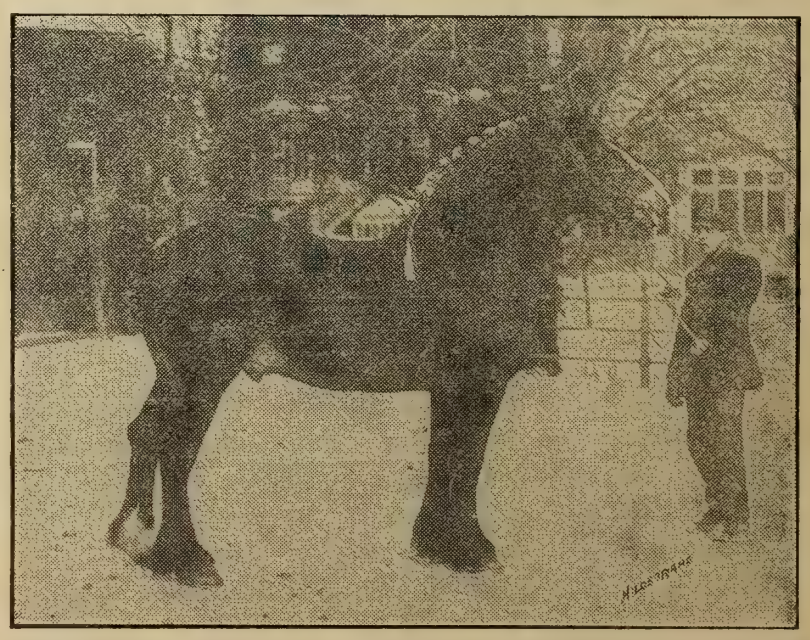
Now, what are the sanitary faults one finds leading to such a percentage of polluted wells? These I will now point out, but not in order of frequency nor importance.

(a) Mouth of wells not elevated above surrounding soil, in fact in some cases actually lying lower. The result is this, that the surface run-off water makes its way directly into well, carrying with it any waste substances present on soil surface.

(b) Wells not properly curbed or protected for upper four or five feet. The result is practically the same as when mouth of well is not elevated, for if the upper four or five feet are not made water tight the well is an excellent drainage pit for surrounding surface water, and if soil happens to become contaminated, such contaminated material must make its way into well with its worms, insects and small animals.

(c) Well mouth not properly covered so that dust and surface dirt, twigs, leaves, etc., can fall into the well; or water pumped up carelessly runs back in again, carrying such substances in. Through lack of covering or improper curbing frogs, mice, and even larger animals gain entry and contaminate the water. The drips from pumps should always be carried outside the well curbing.

(d) Lack of cleanliness of surface



Galbraith's Royal Voucher, the grand champion of all British breeds at the Denver Live Stock Show. He is unusually well bred. He is a son of Baron's Voucher, that was a champion in this country, and a son of that incomparable sire, Baron's Pride, whose record as a sire of prize winners was never surpassed by any other draft stallion. Of this splendid stallion it has been said, "There is no better bred Clydesdale sire living." The Galbraiths (De Kalb, Ill.) are offering Royal Voucher and a number of others of equal excellence for sale.

Stockraisers! Another 10,000 lbs. FREE—by Parcel Post!

I've Extended This Remarkable Offer!

So great was the demand, I simply had to! But this may be your last chance to get free—*absolutely free*—10 lbs. of this wonderful conditioner. Write for your 10 lbs. today. Needn't *buy*—just *try*—

Ringmaster Stock Tonic

For All Kinds of Stock. A Conditioner, Blood Purifier and Worm Exterminator of Unusual Merit. Saves Hogs from Cholera and is a Preventive of *All* Animal Diseases

I don't care what experience you've had with other conditioners. I tell you as man to man that here is ONE PRODUCT so far AHEAD of anything else now on the market that there's utterly *no comparison*.

And to PROVE it, I will send you 10 pounds without charging you a penny. I don't *ask* you to buy it. I don't ask you to buy any more *like* it. I *merely* ask that you place it before your wormiest, runtiest, skinniest hogs, sheep or cattle, or before animals you think in the pink of condition!

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And afterwards, TELL YOUR NEIGHBORS WHAT IT DID! That is the ONLY STRING tied to this offer.

Ringmaster Stock Food expels worms and parasites and *keeps them out*. It tones up the digestive apparatus and other vital organs. It adds weight—slickens coats—purifies blood—increases milk yield—stimulates vitality and keeps disease and pestilence of all kinds away from *stock*, young and old. *Not a single case of cholera* reported among our feeders this year.

Would I make this FREE 10-pound offer if I didn't know the *merit* of this conditioner—know what it would *do*—and what all the others would do, too? Well, hardly!

And would such well-known feeders as these listed be using Ringmaster if it didn't PAY?

Supposing you got rid of only one nasty case of worms, wouldn't that well hog alone pay you handsomely for your trouble?

Send for your 10 pounds *at once*. No obligation—no charge—no expense to you except a few cents for parcel post. (Consult diagram for rate or ask your postmaster), and send stamps.

Also FREE

With the 10 pounds we will send you "Champions and Grand Champions"—a wonderful series of pictures of animals fed on Ringmaster Stock Food.

Hundreds of stock raisers told me at the last International Stock Show at Chicago that this is the greatest series of pictures they ever saw. Send for it at once.

We have only 1,000 books and pails to give away. First come, first served. Write today—now—when it's fresh in your mind. In writing, be sure and tell me number and kind of stock you own.

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Note: The editor of this paper thinks this is one of the fairest offers ever made. (11)

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The World's Best Variable Drop
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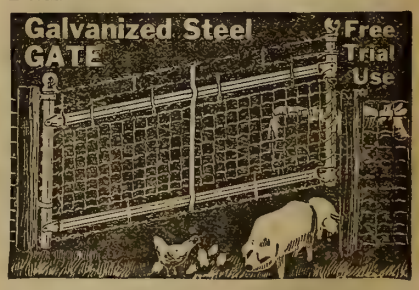

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soil in neighborhood of well, e. g., such things as throwing slop water near the well, allowing accumulation of manure or house wastes nearby. It is remarkable how careless many are in these points and also such as watering animals right over or very near well mouth and allowing their droppings to lie about.

(e) Wells may be situated too near to drains or privies that leak owing to improper construction, or too near stables, manure piles or pig pens, so that the soakage from these, gradually seeping through soil, makes its way into well and thus contaminates the water.

A deep well is one which does not depend for its supply on the ground water of the immediate locality of the well, but gets its supply from the water which lies imprisoned beneath one or more of the surface impermeable strata. The origin of these waters may be only several hundred feet or yards from the source at which tapped, or it may come from miles away, and always from higher ground than at the point at which tapped. If there be a heavy flow of water and source be considerably above the ground level at site of well, then a flowing or artesian well may result. Deep well waters then, as a rule, are good waters, yet in my examination and analysis I find I have to condemn a fair number of samples from such wells. What is the trouble? Practically the same as in surface wells, i. e., lack of protection of the well itself so that contaminated ground water enters. What is the use of deepening or drilling a well if the drill hole is to be simply a drainage pit for surface water. Such a well ought to be tightly curbed down to first impermeable stratum of rock or hard pan. This keeps out the upper ground and surface water and insures the drawing of the deeper water. In the vast majority of the cases which I have investigated where contamination has occurred the trouble has been due to entrance of surface run of water or the surface well water and by taking such steps as were necessary to keep this out the trouble has ceased.—[Dr. W. T. Connell in Ontario Report.

RAISING CARRIER PIGEONS FOR RACING PURPOSES.

The scientific breeding of carrier pigeons in France received a great impulse from their practical utility during the siege of Paris, and this industry has since been followed with much interest. While the siege was in progress 363 carriers were sent out in balloons, of which 302 were liberated and seventy-three returned safely. They bore messages photographed miscroscopically on pallicles of collodion which were inclosed in goose quills attached to a silk thread to the upper part of the tail feathers. The success of these experiments led to the organization in France of a military pigeon system. The ministry of war maintains control over all the carrier pigeons in the country.

Colombophile societies exist everywhere in the republic and their activities are under the control of the military authorities. French amateurs, however, concede that it is in Belgium that the greatest measure of success in developing the best types of homing or carrier pigeons has been attained. Four varieties of pigeon still exist in a wild state in France—the biset, the wood pigeon, the rock pigeon, and the turtle dove. The biset variety is the foundation of all the domesticated varieties in France. The modern carrier pigeon is a composite of several varieties, chiefly the biset and the Belgian "voyageur." The prevailing type is large with long body, head, neck and beak. The female carrier pigeon invariably lays two eggs at a time, from which are nearly always hatched a male and a female. The period of incubation lasts eighteen or nineteen days, and both parent birds share in the process of incubation and in feeding the young.

Careful attention is given to the feeding of birds destined for racers. Their usual diet is wheat, but as a contest approaches they are fed on small dried beans and maize and are given water containing iron. Just before a race some amateurs give their birds beechnuts and buck wheat, which are believed to impart special strength for the flight.

The trainer of the young birds begins when they are three or four months old. They are placed in a basket, taken a mile or so from home, and liberated. A few days later they are again transported, usually in the same direction, but twice as far, and so on in successively longer stages until they are able to fly homeward 100 miles or more. At the age of five months they can fly 300 or 350 miles in ten hours. They are not at their best, however, until the age of four or five years, when they can easily cover 600 or 700 miles.

The average velocity of a good carrier is twenty-seven to thirty miles an hour, although an instance is on record where a bird attained a speed of seventy-five miles an hour. The average height in flying is 450 to 500 feet. The price of a carrier at Havre varies from $3.80 for an ordinary subject to $250 or even more for a prize winner in a race.—[Chicago Tribune.

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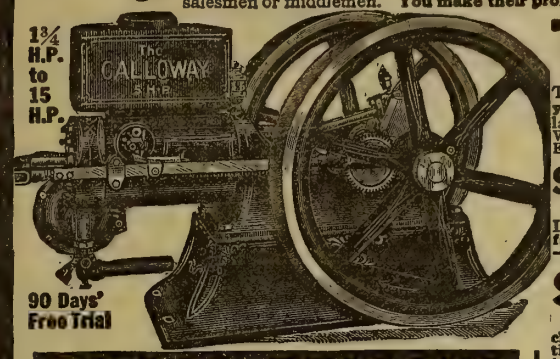

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That's the way to buy an engine, **and it's the only way that's absolutely fair to you,** and that's the only way that I'll sell an engine, because I won't keep a dollar of any man's money **unless he would rather have my engine than the cash.** When a man will tell me that—then and not until then do I consider a sale as made. Every single man who does business with me is absolutely protected by my

$5,000 Challenge—$25,000 Guarantee

I back every promise, every statement and every claim with $5,000 **in cash.** I protect every one of my customers by a $25,000 guarantee of **absolute satisfaction.** Understand, I don't say reasonable satisfaction but **ABSOLUTE** satisfaction **—AND YOUR WORD is always good with me.**

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My force of high salaried Engine Experts are at your command absolutely without charge. They will tell you how to select exactly the engine which is best suited for your particular purposes; how to test and judge an engine; how to use one to best advantage; how to fit up a power house—besides answering fully and completely any question about the care and operation of an engine. This is absolutely free to you whether you buy a Galloway or not.

20,000 REASONS

Here are a few expressions from farmers now using Galloway Engines. Twenty thousand others have had exactly the same experiences. These are men just like yourself. **Before they bought a Galloway they were in exactly the same position as you are now.** You will say exactly the same as they do after you get your Galloway.

Alex. McLachlan, Argyle, Mich. I received my Galloway Engine last week and it is all right. Everybody says it is a dandy engine. **Some of my neighbors got bit on other engines** by paying $400 for a 9 h. p. and $460 for a 10 h. p. I like your engine dandy.

Fred Ruthardt, Mt. Vernon, S. D. I must say the engine is all right. **I saved about one hundred dollars in** buying from you. I don't want to be without the engine, not at all. I use it for shelling corn and grinding feed.

Frank Peck, Dorchester, Neb. My Galloway Gasoline Engine does lots of work for me. It shells corn, saws wood and grinds feed. I have no trouble with it. It is simple and easy to start. **My twelve-year-old boy starts it easily.**

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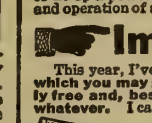
This year, I've got something better to offer than I ever had before. **I've got a plan by which you may get your Galloway Engine either wholly or partly free and, besides, without any soliciting or canvassing, whatever.** I can't explain it now, but I tell you all about it in a personal letter when you write me.



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Charcoal is a pressing essential for poultry, especially at this season. Instead of buying it, rake up some old chunks of wood, cobs and other refuse about the place, setting fire to them. When the heap turns to a mass of hot coals, smother it down with a little water or dirt, and when it cools, you will have a handy supply of charcoal and be rid of the rubbish.

The renter's moving day and the day when the hired man begins his season of labors will soon be here. The first day of March is the beginning of a new deal with many, every year.

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Lasts a lifetime. Most economical. Made to fit any well. Works perfectly in quicksand or any soil. Anyone can install it. Write direct to factory for catalog and prices. Address Northfield Iron Co., 118 Water St., Northfield, Minnesota

Feeding Draft Colts.

By Wm. Crownover.

I DO NOT intend to give you any special method that might be given to some special colt fitted for some special show. I know that the average farmer does not care for that and would not do it if I told him how, and as I can say a few things that I feel ought to be said in regard to breeding and management without interfering with some one else's subject I don't think I will stick entirely to my text. I just want to give a little practical common-sense talk. If I can impress upon you the importance of giving the colts plenty of the feed every day that is in sight in the oats bin and hay mow I and the colts both will be pleased that you have been here.

I heard Mr. John Cownie in one of his lectures say that the best cross he could give a hog was the corn crib. It may be as truly said of the colts that the best cross they can have is the oats bin. I am sorry to see so many farmers who seem to think that as soon as the foals are taken off the mothers that they are able to take care of themselves, and will say, "Well go and hunt up what you can find to eat now and make a horse." Very frequently colts are worth more when taken off the mother than they are as yearlings when improperly fed. If we do not feed the colts well the first year and make good yearlings we are sure to lose one-fourth to one-half the value at maturity. Show me a good feeder and I will show you a good breeder, and a man will pay $25 service fee for a good stallion. Show me a man that thinks his grain of more value in the elevator than in his stock and I will show you a man that will use a $6 scrub. Show me a good bred horse and a poor fed one and I will show you a poor horse. Show me a poor bred one and a good fed one and I will show you a fair horse. Show me a good bred one and a good fed one and I will show you a market topper.

Too much cannot be said in this crusade against scrub sires. From what I have seen I believe that a lot of farmers ought to have a guardian when it comes to live stock breeding. They seem to think that a few dollars saved in the breeding end of the transaction is money made. They seem to lose sight of the selling end where the values are at least 50 to 100 per cent more from good pure-bred sires than from scrubs. I call such methods five cents wise and $5 foolish. What man is there contemplating building a skyscraper that does not give due consideration to the foundation and the material entered in the construction? It is just as important to have the best of feet, pasterns and joints with a heavy flat clean hard flinty bone in the horse and when you get such a foundation you can build on the top just as large as you like.

I am sorry to see farmers neglecting the feed and fit their horses for market. They feed their beef and dairy cattle, their hogs and sheep that they may receive top prices, but the horse is sold neglected and thin, his hair standing up and rough as it can be.

WILLIAM CROWNOVER.

Now there is no animal will pay better to feed and fit for market than the horse and the farmers of the corn belt are losing $100 to $150 on every horse so neglected. There are just two things that are sure to bring success or failure in draft horse breeding, namely, breeding and feeding. The one is just as important as the other. Either one of them properly handled and the other neglected means failure.

Then how and when shall we begin to feed these colts? I worked for a man one time who raised his horses as scavengers and on the first of March as the colts were nearing three years old he said boys you had better get those colts in the barn and feed them a little corn and break them to hitch as we will have to work them this spring. How improper is such management. How many do nearly the same thing. But I am thankful that we are advancing from such methods. Instead of waiting until the colt is nearing maturity before we begin to feed let us begin at the proper time. Say eleven months before it is born, give this good mother who is expected often to do her day's work in the field and nourish her own life, the life of her baby foal, and the life of the unborn making in all three lives to nourish, give her some good healthy feed. Do not neglect her, give her plenty of bone, muscle and milk-producing food, such as oats, bran, alfalfa meal, some nice clover hay, raise a small patch of sugar cane for winter feed, for they enjoy it, so much. There is no better or cheaper feed you can raise than the cane. A good piece of land will produce five to ten tons per acre and there is not a pound of waste, they will eat every stalk clean and the larger the stalk the better they like it.

In the winter time turn the prospective mother out in the fields every day for exercise, she needs it and enjoys it in any weather except a cold rain or sleet storm. Don't expect her to break the roads through the snow banks, nor do the heavy hauling on the muddy springtime roads. If you do you are sure to have some fatalities. I keep a pair of heavy geldings on the farm for no other purpose than to toke the hard places off from the brood mares and I nave found it very profitable. Give her box stall intended for foaling at least a month before she is due. This allows her to get accustomed to the change in temperature that sometimes exists between the farm stable and the box used for foaling mares. There is often great risk of both mother and offspring taking a cold when the mare is kept in a warm stable up to foaling and then turned into a drafty box stall where it is much colder. Foals will usually stand as much exposure as the mare has been accustomed to. For instance, a foal from a mare that has been wintered outside will bear an amount of exposure that would soon kill one from a mare that has been accustomed to a warm stable.

After the mare has foaled it is best to leave her and the foal to themselves. If the foal is strong he will get on his legs and nurse without help. Too much interference often makes the mare restless and prevents her from letting the foal nurse. Foals during the first few days require a good deal of attention. One great evil is when foals get costive, and deranged internally this may be avoided in a great measure by a laxative food, such as a warm bran mash which will have the effect of keeping the foal laxative also. But where mares can get green fresh grass or have been fed laxative food little doctoring is required. More harm than good is often done by treating the foals. It is best to treat the mare and not the offspring. It scmetimes happens that the flow of milk is greater than the foal can take, in such cases it is well to draw from the udder two or three times a day until the foal is able to take care of it all. If it is allowed to remain in the udder it becomes unwholesome and liable to derange the foal internally. But as soon as the foal is well under way and able to take all the milk the mare gives, means should be taken to increase the quantity as well as the quality of the milk. Oats with bran or alfalfa meal and other green feeds will produce the desired result. If the weather is warm in April and the fore part of May turn the mare out on grass after the cold dew is off and the sun is shining. Young animals derive great strength and benefit from sunshine. Of course, in the extreme heat of the last days of June and July this treatment must be reversed and keep the very young foal in from the extreme heat of the day. Pardon me for saying so much about colt management and feeding in early stages, but I have learned from experience that the most critical period in all the colt's life that the feeder has to contend with in rearing the colt is from birth to four weeks old.

Mares should have at least fourteen days rest from work after foaling and if farm operations will admit, longer. When the mares are put to work they should be used only a few hours at first, and the time gradually increased. Anyone who has watched a mare and foal will know what a great number of times the latter will nurse in an hour. It is, therefore, very unreasonable to take a mare away from a very young foal and work her a half a day without allowing it to nurse. When it gets older and can take some nourishment it is different. I do not work my

mares after foaling if I can possibly avoid it, for I know the mare that is being worked cannot possibly have the amount of nutrition to spare for the foal that she would have if idle. If a mare gets heated when at work she should not be allowed to nurse the foal until she has cooled down, and has some of the surplus milk that has remained too long in the udder to be good for the foal drawn from her. This is the general cause for scours which sets the colt back and is fatal if it becomes of a chronic nature.

To raise horses successfully and profitably they should be constantly kept improving. The raising of young stock may be compared to the progression of a railway train. We all know what a tedious thing it is to travel a long journey by rail when the stops are numerous and we grumble at the time wasted. It is not only the length of time the train stops, but the time it takes before it can be got properly on to speed again. The same way with the colt, if by neglecting to supply suitable food or by mismanagement you allow the animal to come to a standstill in its growth and condition it will very often take a couple of months good feeding before any apparent improvement in condition is made. This is a serious loss of time and food which means a pecuniary loss to the owner, whereas if sufficient food is supplied to keep the colt constantly improving you will weighing close to 1,200 pounds and better, and you are now well on the way to make a good draft horse. When the yearlings go on grass give them a ration of three or four quarts of oats twice a day, and when the heat and flies are bad increase the ration a couple of quarts a day, and when winter comes again duplicate the ration you used before, only increase as the case may require. You can with good results at this time increase the corn and alfalfa and cut down some on the oats. The alfalfa will balance the corn. Try alfalfa meal mixed with 40 per cent molasses. It is the best appetizer, conditioner, laxative and bone and muscle builder with other grains there is. It is cheaper than bran and of far more value as a horse feed. There is no fixed rule as to the number of pounds of grain or hay that will apply to every horse or colt. The feeder must use judgment as not every horse feeds alike and does not require the same mixed ration. For instance, if I had a big, rough, raw-boned colt I would feed a heavy ration of corn and get a top on as soon as possible. It is wonderful how the digestive organs of the horse can be developed by proper and gradual feeding, and there is no animal that will make more gain for the grain consumed than the horse. It is common for a good feeder to put on from six to twelve pounds a day, and good horse flesh is selling

The above illustration is a good likeness of Messenger Boy, the undefeated grand champion Hampshire boar of 1911 and 1912. He is owned by Clayton Messenger, Keswick, Iowa.

have a good return for the quantity consumed. To keep colts constantly improving must be the result constantly aimed at.

The best means to secure this improvement must next be considered. Size, bone and muscle are the three things necessary for a draft horse to possess. They can only be obtained by proper breeding and feeding of food suited for their conformation and by exercise. Generally when the colts are three weeks old they will begin to nibble oats or bran. Encourage them by having a few nice sweet crushed oats in your pocket and when you go into the stall or pasture scratch them on the back with one hand and let them eat the oats out of the other. It will only be a short time until they will be looking for you. I want to say that kindness is one of the best foods that can be mixed with the rations. A sulky groom that is always kicking the animal out of his way is not fit to feed anything and must not be tolerated. Provide a little box in the stall or pasture and when you feed the mother don't forget to have a little pan for the foals. I would not advise buying alfalfa meal or bran for a ration when the mares and colts are on good pasture. They do very well on oats alone. Before weaning time mix a little alfalfa with their oats and get them started on full feed. Then when they are taken off the mother they will go on and grow and keep their flesh.

In the winter time give them plenty of clover hay, if you can get it, or cane. Keep up the ration of oats and alfalfa meal and a small amount of corn will do good. Let them out every day for they must have exercise to develop their feet and muscles. They will roll in the snow banks and enjoy it. The next spring you will have colts at twelve months old from twelve to twenty-four cents per pound on the open market and a few extra individuals much higher.

Should we not then pay more attention to the proper feeding of our horses and send them to market as a finished product? We can raise here in Iowa all the necessary feed and can develop as good a horse as any country in the world can produce, and there is no one can finish them for market cheaper than the farmer. Then why continue sending our big colts and our feed all raised on our farms down to the eastern feeders to be finished by them at a good profit and go on the eastern market to be sold as a product of their state? We have all the raw materials so let us send it to market in a finished form and have it stamped "Made in Iowa."—(Before Iowa Draft Horse Breeders' Association.)

CENTRAL SHORT-HORN BREEDERS' MEETING.

At the annual meeting of the Central Short-horn Breeders' Association held at Kansas City last week, Mr. N. H. Gentry, of Sedalia, Mo., was elected president and E. H. Hall, of Carthage, Mo., secretary and treasurer. A resolution was unanimously adopted tendering to Mr. B. O. Cowan the respects of the association and expressing regret that he could no longer act in the capacity of its secretary, a position he has held from the time of its origination some fifteen years ago.

The breeders present were enthusiastic over the plan of holding annual bull sales and enough bulls were pledged to insure the holding of one in the not far distant future. Those in attendance were enthusiastic over the rapid increase in the popularity of Short-horn cattle.

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There is a simple method of applying *Certain-teed* Ready-to-lay Roofing on all kinds of buildings—farm houses, barns, garages, poultry houses, silos.

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Look for the *Certain-teed* label of quality—your dealer can save you money.

Valuable Book Free You will find many valuable suggestions in our new book, "Modern Building Ideas and Plans." It tells you what to do and what not to do—it suggests economies and conveniences that will save you money.

A book of this kind would ordinarily sell for $1, but as it shows the use of our *Certain-teed* Roofing on all kinds of model homes and farm buildings, we offer it to you at 25 cents. We prefer to have you go to your lumber, hardware or building material dealer, who will gladly get you a copy FREE. If you write us, enclose 25 cents to cover cost, postage and mailing.

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Smooth Tread or NON SKID TIRES

Firestone rubber and design mean mileage never before approached.

Fullest comfort, greatest car protection with fewest tire and car repairs are additional values and economies. Twelve years of uninterrupted leadership have proved it.

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375 lbs. in 9 months

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Mar. 5, M. H. Donohoe, Williamsburg, Iowa.
Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Mar. 5, A. L. Meith, Cairo, Neb.
Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 1, D. R. Hanna, Chicago, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Mar. 4-5, Funkhouser, Gabbert and others, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.
Mar. 6, J. A. Shade, Kingsley, Iowa.
Mar. 20, A. A. Hager, Avoca, Iowa.
Mar. 21, R. P. Clark, Brayton, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Mar. 18-19, R. B. Young, Buffalo Center, Iowa; McKay Bros., Buckingham, Iowa, and W. B. Barney, Hampton, Iowa (sale at Waterloo, Iowa).
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Mar. 12, L. H. Luckhardt, Tarkio, Mo.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Jacks and Jennets.

Mar. 4, L. M. Monsees & Son, Smithton, Mo.
Mar. 10, G. C. Roan, La Plata, Mo.

Percherons, Shires and High Grades.

Mar. 8, Breeders' second annual sale, Malvern Iowa, Fred Durbin, Mgr.

Percherons, Jacks and Jennets.

Mar. 6, S. J. Miller, Kirksville, Mo.

Poland China Swine.

Mar. 5, A. L. Meith, Cairo, Neb.
Mar. 8, J. H. Healy, Manilla, Iowa.
Mar. 11, M. F. O'Hern, Barnum, Iowa.

Duroc Jersey Swine.

Mar. 3, John Truax & Son, Sycamore, Ohio.
Mar. 4, F. J. Rupert, Spencerville, O.
Mar. 21, Hunt & Weberg, Denison, Ia.

Hampshire Swine.

Mar. 12, D. H. DeKalb, Dekalb, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

G. W. Baskerville, Jolley, Iowa, is advertising a pure-bred Belgian stallion for sale. His advertisement appears elsewhere in this issue.

Chester White fall boars are advertised for sale by A. C. Orme, Nodaway, Iowa, elsewhere in this isue. He also offers some good gilts for sale.

P. Bischmann, Monee, Ill., has three registered Short-horn heifers on which he is quoting a price in his advertisement appearing elsewhere in this issue.

Robert Jarman, Carlinville, Ill., has two good Shire stallions and four mares which he is offering for sale in his advertisement found elsewhere in this issue. For further information and prices write Mr. Jarman.

Wm. D. Whisler, Garner, Iowa, is advertising a closing-out sale of Percheron horses on March 5th. His announcement appears elsewhere in this paper. The offering will consist of three stallions and fifteen mares. Write Mr. Whisler for further particulars.

R. E. Baldwin, Osceola, Iowa, has a number of good Short-horn cattle that he is quoting prices on in an advertisement found elsewhere in this issue. The offering will consist of young cows, heifers and bulls. They are of the Brawith Bud, Princess Royal, Alexandria and other good families. They will be priced to sell. Mr. Baldwin invites those interested to visit his herd and inspect the stock, and if that is not possible write him.

An English Shire stallion and one Missouri-bred jack are advertised for sale elsewhere in this issue by L. B. Cummings, Clearfield, Iowa.

D. W. Guthrie, Newton, Iowa, has for sale a pure-bred Guernsey bull that he has used in the herd for some time and can no longer use him to advantage. Write him for particulars, mentioning The Homestead.

George Lippert, Magnolia, Ill., in furnishing copy for his advertisement appearing elsewhere in this paper, writes: "I never saw such a hunger for bred Hampshire sows. It looks like a shortage of brood sows all over the corn belt. The recent Hampshire brood sow sales were good offerings and prices were very high."

Some choice Percheron, Belgian and English Shire stallions are advertised for sale by P. J. Eggers, Denison, Iowa, elsewhere in this issue. He also offers a splendid lot of Percheron mares for sale, some of which will weigh from 1,600 to 2,000 pounds. Write Mr. Eggers regarding these at once and kindly mention this paper.

Henry Meissner, Leighton, Ia., is advertising regenrated, Swedish select seed oats elsewhere in this issue. Mr. Meissner secured the seed from which these oats were grown from the Garton-Cooper Seed Company, who are noted as breeders and improvers of oats. Mr. Meissner is pricing these oats at a very reasonable figure and will be pleased to receive orders from Homestead readers. He has grown all the oats he has for sale and they are first class in every respect.

A Poland China boar for some time at the head of the herd of Wm. Lentz, at Ankeny, Iowa, has been a producer whose merits have cropped out in a great many directions. At the Iowa State Fair one exhibitor showed a gilt under six months whose dam was a daughter of Tecumseh Longfellow and took second place with her. He also captured ribbons in the boar classes with a litter brother. At the same fair still another exhibitor took fifth on an aged sow that was a granddaughter of Tecumseh Longfellow. All these points are of interest because Mr. Lentz will offer considerable of the same blood at a public sale which will be announced in this paper later.

D. A. Hodge's public sale of Jersey cattle will be held at his place in the city of Des Moines, Iowa, on Tuesday, February 25th. The offering includes eight mature cows, five heifers with calves, four young heifers, six pure-blood bull calves and a number of grade cows and heifers. The blood lines carried by these cattle are of the most popular imported and American strains. Many of the cattle are right close up to imported sires and dams. Mr. Hodge's cattle are good ones which he has gotten together at a great deal of expense and considerable pains. Buyers will find them to be of money-making sorts. Owing to the destruction of The Homestead's job printing plant Mr. Hodge's catalog will be seriously delayed. Descriptive circular, however, may be obtained by writing to B. A. Hodge, Route 6, Des Moines, Iowa.

Taylor & Jones, Williamsville, Ill., write: "Among our recent sales we are glad to mention the following: To Kellums & Sturdivant, Clay county, Illinois, a three-year-old imported Percheron; to A. E. Leonard, Fond du Lac county, Wisconsin, a three-year-old imported Percheron; to Schertz & Smith, Woodford county, Illinois, a three-year-old imported Percheron; to John McCarty, Douglas county, Illinois, a two-year-old imported Percheron, while G. W. Morgret, Christian county, Illinois, gets two imported Percherons. Our horses are doing fine and business is good. We have a nice lot of imported and American-bred draft stallions and mares and parties who are planning to buy such will find here just what they are looking for and we guarantee the treatment you receive at our hands will be all you can expect. Our guarantee is the most reasonable." Their advertisement appears elsewhere in this issue.

G. A. Ford, manager of the Ford Stock Farm, Parker, S. D., writes: "During the week ending the month of January we had the pleasure of selling J. M. Trecker, Salem, S. D., an imported black Percheron; John Lechner, Leola, S. D., two imported Percherons, a gray and a black; C. E. Wiley, Carthage, S. D., an imported roan Belgian; Percy Bump, Montrose, S. D., an imported black Percheron; John Reimer, Zeeland, N. D., an American-bred black Percheron; F. F. Tiesen, Freeman, S. D., an imported chestnut sorrel Belgian; Jacob Unruh, Parker, S. D., an imported dark gray Percheron, and five head to a party in Montana not yet delivered. With the exception of F. F. Tiesen, John Lechner and Jacob Unruh, who have been regular customers in the past, several of the above gentlemen spent both time and expense visiting other importers and dealers and their verdict was that they found as much bone, weight and conformation in our offerings and in many instances found them far superior. After making their choice of stallions suitable to their locality they purchased them at $100 profit to us, thereby saving from $100 to $500 dollars on each purchase of stallions weighing from 1,850 to 2,100 pounds. We invite the inspection and investigation of Homestead readers." The advertisement will be found on another page.

Public Sale of Percherons.

V. D. Wolcott, Battle Creek, Iowa, announces a public sale of registered Percheron and French draft horses on Friday, March 7th. Twelve head of horses will be included in this sale. Two of them are big, heavy-weight imported Percheron stallions, six and seven years old, as good as can be found. The remainder are mares, fillies and stallion colts. These horses are sold because of illness of the owner. There will not be a catalog of the sale, but registry certificates will be furnished with each animal sold. For other information write to V. D. Wolcott, Battle Creek, Iowa.

French's Imported Horses.

R. F. French, Independence, Iowa, has a high-class lot of imported Belgian stallions and mares that he is pricing right to Homestead readers. Mr. French personally selected these horses in Belgium last year and his judgment came into good play in getting together a good, heavy-boned, clean lot of stallions and mares. If interested write him, mentioning The Homestead. See his advertisement elsewhere in this paper.

Pfander & Son's Last Call.

The forty head of big-type Poland China sows to be sold by J. W. Pfander & Son, at Clarinda, Iowa, on Ferbuary 26th, are unquestionably the largest sows of this breed that will be sold this winter. In previous issues we have told you all about their offering. Now we wish to urge you to go to their sale. M. T. White will represent this paper at the sale and will care for any bids sent to him, in care of J. W. Pfander & Sons.

The Malvern Horse Sale.

On Saturday, March 8th, at Malvern, Iowa, will occur the second annual public sale of registered Percheron and Shire stallions and mares made under the management of Fred Durbin, and it promises to be one of the best sales to be made this spring. There will be twenty head of registered stallions and mares in this sale, one pedigreed black Mammoth jack and forty head of high-class, good draft mares, geldings, fillies and colts.

C. C. Evans' Chester White Dispersion.

C. C. Evans, the well-known live stock auctioneer and breeder of Chester Whites, North English, Iowa, has sold his farm and will close out his herd of Chester Whites at public auction on February 28th. This offering includes all of his tried brood sows that have made him hundreds of dollars during the past few years. Those who have attended Mr. Evans' sales know what a grand lot of pigs these sows have been producing each year. It is a chance of a lifetime to get some of the seed stock that has made Mr. Evans' sales a well-known event to breeders needing herd boars and breeding stock. Sows by the champions, Joker and Triumph, as well as daughters of New Hampton King 2d, O. K. Chief Noximal, Joy's Chief, Inspector O. K. and Triumph 2d will be sold. If interested write for catalog, mentioning The Homestead. See advertisement elsewhere in this issu.

The J. O. Duncan Duroc Sale.

On February 27, 1913, J. O. Duncan, Lebanon, Ky., will offer a most select lot of Durocs, including bred sows and gilts and fall pigs, both male and female. The sows are sired by Ohio Chief, Defender, Orion Chief, B. & C.'s Col., Ky. Col., Tippy Col., Garnett Chief, Col. King, Masterpiece, Pal's Col. and others. They are bred to Defender, Superba, Professor Good and others. But we wish to call particular attention to the fall pigs. They are large, growthy and extra good in quality. They are by Defender, dam by Ohio Chief, and others by Superba, dam by Tippy Col. There are sure show prospects and herd headers among them. E. S. Mayes and McKee Bros. sell the day following just nine miles away at Springfield, Ky. Make both sales. H. E. Browning will represent The Homestead. Colonels Igleheart and Wheeler, auctioneers. For catalog and further information address J. O. Duncan, Lebanon, Ky.

The Dannen-Lowrey Percheron Sale.

R. C. Dannen, Marshalltown, Iowa, and H. C. Lowrey, Nevada, Iowa, will join forces in holding a Percheron sale at Marshalltown on March 6th. The offering includes some of the good show stallions and mares that were exhibited at four state fairs in 1912 and many of them were winners. The horses are young, sound and nearly all imported. Pedigrees of the imported horses have been inspected and passed on by the French and American governments, so buyers are taking no chance along this line. Thirty-eight of the fifty head are mares and all old enough are bred to the best of imported stallions. With one exception the stallions are all imported and were selected with care as to heave, clean bone and draft quality. The sale will be held in Harmon's sale barn. A catalog can be had by addressing either consigner as per their advertisement in this issue of The Homestead. When writing for catalog kindly mention this paper.

Swallow's Dispersion.

Breeders of Poland China hogs everywhere will be interested in the announcement that W. Z. Swalow, pioneer Iowa Poland China man, will close out his entire herd at public sale on Thursday, March 6th. Fifty head will go in this sale. First in importance will be the herd boar, A Wonder 186341, two years old in March, a first-prize winner at the Minnesota State Fair and a descendant of prize winners on both sides. On his dam's side he traces to Peter Mouw's Chief Price and to the Orange Maid family of sows. This animal has proven himself a good breeder and is worthy of consideration by those who are acquainted with the best blood lines. Two younger boars will go. One of these, a coming yearling, is by Big Look and his dam traces to animals of great size. The other, also a coming March yearling, is strong in strains of blood that have produced growthiness, feeding qualities and finish. The older brood sows are highly attractive, none of them more than three years old and all of known producing character. Three of them are by Adviser and are of the same litter, their dam having been a Harvey Johnson-bred sow, a granddaughter of old Chief Tecumseh 3d. Others are by T. R.'s Perfection and Big Tecumseh. Throughout the entire lot there runs the blood of Chief Tecumseh 3d, which has been so effective in producing the size now so greatly in demand among Poland China breeders. The younger sows are by A Wonder. The older ones will have been bred by A Wonder and the younger ones to Look's Best. For additional information write to W. Z. Swallow, Waukee, Iowa.

The Trotter Jack and Jennet Sale.

On February 27th, at Mr. Ayr, Iowa, W. T. Trotter will make a public sale of thirty head of jacks and jennets and any of our readers who may be on the market for a good jack will find what they want in this sale. Mr. Trotter is one of the best breeders today in the West and he is selling some of the best jacks in this sale that will be offered at public auction this winter. He is also selling a high-class lot of jennets. Make it a point to be at this sale at Mr. Ayr, Iowa, on February 27th.

Truax & Son's Duroc Sow Sale.

These gentlemen will hold their first sale at the farm near Sycamore, Ohio, on March 3, 1913. They have erected a new hog house and sale pavilion and everyone will be made comfortable. All the passenger trains will stop at the farm to take on and let off pasengers for the sale. Don't that show that these two gentlemen are live wires? But wait until you see the catalog. We challenge anyone to say but what the blood lines are the very best up to date known to the Duroc herd registers. As to the quality, H. E. Browning, our representative, who looked over the herd a few days ago, says he saw some of the best Durocs he has seen anywhere right on Truax & Son's farm. Now this is about the last sale of the season and Duroc men should have pride enough in their favorite breed to make it a hummer. Those who cannot attend should send bids by mail or wire to H. E. Browning, in care of John Truax & Son, Sycamore, Ohio. Write for catalog, mentioning The Homestead.

The Holst Chester White Sale.

On February 27th, at Denison, Iowa, John F. Holst, Jr., will make his second annual sale of Chester Whites and he has cataloged forty head for this sale. Mr. Holst has been an advertiser of The Homestead for the past two or three years and he has built up a nice business by square dealing, and we take pleasure in calling attention to his sale. He is not only selling a splendid lot of sows in his sale, but you can depend on it that they are just as he represents them. The nineteen head of yearlings that he is selling are all sired by Fancy Boy, a boar that he purchased a couple of years ago from Louis Reese, and he has proven himself a most excellent sire. He still has him in the herd and some of the sows that go into the sale are bred to him. He has been using good boars in the herd and has a lot of the blood of old Combination as well as other noted boars. If you want Chester White bred sows don't overlook the John Holst sale. C. C. Carlin will represent The Homestead at the sale.

The Mayes, Jr.-McKee Bros. Greatest Defender Duroc Sow Sale.

E. S. Mayes, Jr., has sold Defender to McKee Bros. for a world's record price. Some twenty head of high-class sows go in this sale bred to Defender, the greatest boar in America today. The sale will be held at Springfield, Ky., Friday, February 28th, the day following the J. O. Duncan Duroc sale at Lebanon, Ky. The features of these sales are Defender, owned by McKee Bros., and Superba, owned by Mr. Mayes and Mr. Duncan. The auctioneers will be Colonels Igleheart and Wheeler. H. E. Browning will represent The Homestead. Good Durocs should have been first and good time and profitable place to go second, but the above names indicate all the best. Better make arrangements to attend these sales. You will be entertained at the Hotel Vaughn, Lebanon, Ky. Say, isn't that just about a first-class line-up of head lines for two days in the "Blue Grass" state? Bids sent H. E. Browning will be handled to your interest. For catalog write E. S. Mayes, Jr., Springfield, Ky., or McKee Bros., Versailles, Ky.

McCray's Hereford Sale.

We want to again direct the attention of our readers to the great sale of Hereford cattle to be made at Kentland, Ind., Wednesday of next week, February 26th, by Warren T. McCray. Seventy-six head are listed, twenty-five bulls and fifty-one cows and heifers, and, as we have before stated, it is without question as strong a lot of cattle as any breeder ever sent forward to a draft sale, numbers considered. Fifteen sons and grandsons of Perfection Fairfax, the greatest Hereford sire of modern times, are cataloged, forming one of the strongest lots of herd-leading material ever presented in a sale ring. In addition, several daughters of this great bull are in the sale and there are several with calves at foot or bred to him, while all the balance of breeding age are bred to sons of Perfection Fairfax. It would seem that no further comment is needed as to the value of the offering. In this sale are show cattle of all ages, the kind that can win in the fastest company. There are breeding cattle that will make money for the farmer on any land in the corn belt and there are bulls for the breeder and for the ranchman that are as good as the breed affords. Mr. McCray is a breeder in the broadest sense of the word and the present offering is, with a very few exceptions, the surplus of the fine herd that he maintains at Orchard Lake Farm. Manager James McHendry, than whom there is no better practical cattleman, will put the cattle in the sale ring in a most satisfactory condition. Not a bit overdone, but in bloom and strong breeding condition, and back of every animal stands the guarantee of Mr. McCray, which is gilt edged in every respect. In this day of great cattle shortage with tremendously increasing demand, it would certainly seem that the enterprise of Mr. McCray in offering to the public so high class a lot of cattle should meet with ready and liberal response. It will be the event of the year in Hereford circles and those of our readers interested

in the white faces cannot afford to overlook it. Remember the date, Wednesday of next week, February 26th, at Kentland, Ind. If you have not yet received a copy of the handsomely illustrated catalog send for one at once to W. T. McCray, Kentland, Ind.

Luckhardt's Percheron Dispersion.

On Wednesday, March 12th, L. H. Luckhardt, Tarkio, Mo., will disperse his stud of registered Percheron stallions and mares. Four Mammoth-bred jacks are included. There are twelve mares and eighteen stallions listed. Of this number eighteen head are owned by Mr. Luckhardt and in order to make the sale number attractive H. P. Hurst, H. E. Miller, D. O. Murphy, W. F. Baker and J. W. Hanna contribute the remainder of the offering. Mr. Luckhardt has bred Percherons for a number of years, using good stallions on a foundation of high-class mares that have produced regularly colts that made good as breeders and producers of a good type of Percheron. Mr. Luckhardt's horses are blacks and dark grays that have plenty of scale and quality. The older mares have been in the harness regularly and are the kind that earn their way and produce a colt each year. They and the fillies old enough to breed have been bred to a McMillan-bred stallion, secured two years ago to head the stud. He is a black four year old included in the sale. Ten of the mares weigh from 1,800 to 2,100 pounds each and several of the tried stallions are ton horses. The jacks are blacks, are large, heavy-boned fellows and are broke. The sale will be held under cover in town and Mr. Luckhardt would like to send you a catalog and will on receipt of your request, mentioning this paper.

Miller's Percheron and Jack and Jennet Sale.

The sale of Percherons and Mammoth jacks and jennets which S. J. Miller, Kirksville, Mo., will hold at his barns in Kirksville on Thursday, March 6th, will be a good place to buy a high-class imported or home-bred stallion, reliable brood mares or jacks and jennets. Mr. Miller has never listed a better class of stock and all are in the best possible condition to show their value. Lot 1 of the stallions is Imp. Incident, a black four year old that should mature into a 2,200-pound horse. He is a rangy fellow with excellent action, good feet and legs and is an extra good foal getter. Lot 4, Instar, is an imported four year old, a steel gray, imported in 1910. He is a well-coupled fellow, strong over loin, is low set on good stout legs. He is one of the very best bred Brilliant stallions to be found. Introvable, an aged imported stallion weighing better than 2,300 pounds, is a black with such action and style that he should please those looking for size and smoothness. King's Model, listed as Lot 6, is a very dark gray two-year-old stallion by Mr. Miller's reserve stud stallion, Imp. Echanson, and out of an imported mare. His scale, conformation and quality are such that he should please the more discriminating buyer. Perfection is a steel gray colt, two years old and is one that will grow out well and make a ton horse. He is listed as Lot 3. Joe Funston, a six-year-old black, is a tried sire that gets stock of the right sort, as will be seen by some of his get in the sale. The mares are a goot lot and should be appreciated. The jacks and jennets are all high class and of the most useful ages. Note advertisement elsewhere in this issue and when writing him kindly mention this paper.

Sheehan's Poland China Sow Sale.

On Monday, February 24th, at his farm near Stuart, Iowa, J. M. Sheehan will make a public sale of fifty head of big-type Poland China sows and he never fails to put up a good offering. He is selling fifteen tried sows and thirty-five spring gilts. Nearly everything in his sale is sired by or will be bred to his 800-pound yearling boar, King Wonder, which is one of the greatest living sons of Fesenmeyer's old A Wonder. King Wonder will step in the sale ring for exhibition February 24th weighing 800 pounds in his yearling form. He is an excellent feeder and has been doing well since the breeding season. Breeders and field men pronounce him one of the good herd boars of the corn belt. I am having what is termed as a King Wonder offering, mostly bred to or sired by him. His get are bred to Big Orange 2d, a big, robust, heavy-boned son of Big Orange, and out of a Colossal dam. Some are bred to King Look, a son of the 1,000-pound Choice Look, and he out of a Long King-Giantess dam; also Big Nelson, a grandson of Pawnee Nelson, and out of the grand old Expansion sow, Lady Ohava. The latter sow is the dam of Colossal and Big Sensation, two noted herd boars. He is selling sixteen good, useful tried sows that raised two good litters last season, of which there are two two year olds and fourteen yearlings. The entire crop of spring gilts go in the sale, thirty-two in number. Among the sows are Lady Look, the dam of the boar that topped the October sale. Mr. Sheehan also sells three good Smooth Giantess sows sired by Choice Look, another Giantess sired by Tecumseh Longfellow, one sired by Big Crow and a number of good, smooth sows sired by Choice Look. No. 1 in the catalog is a Lady Ohava sow sired by Prospect Jumbo. Other sows are sired by King Giant and Guthrie's Mastodon, a Wheeler-bred hog. All the sows are bred to the 800-pound King Wonder. King Wonder has proven himself a first-class sire, especially of gilt stuff. We are calling attention to No. 22 in the catalog, a March gilt sired by King Wonder and out of Queen Ohava, a Choice Look sow. This is an outstanding good gilt. She has quality to give away and will weigh 400 pounds by sale day. She is bred to Big Orange 2d for an early litter. Her litter will carry A Wonder and Big Orange blood lines. A majority of the gilts are out of Giantess sows that trace to the old Giantess, that made Fred L. Rood famous in southwestern Iowa. Other gilts are sired by Chief Price See, a son of Chief Price Again; Big Tom Jr., a son of the first-prize boar at Lincoln, Neb; Wapsie Giant, and Mammoth Wonder, a litter brother of King Wonder. The entire offering are of popular big-type breeding. M. T. White will represent The Homestead at the sale.

Eggert's Imported Stallions.

George Eggert, Newton, Iowa, has an announcement in this issue of The Homestead that will interest anyone expecting to buy a draft stallion or mare, either imported or home bred, during the next few weeks. Mr. Eggert has the big, drafty, heavy-boned kind and he can make prices that will interest prospective purchasers. Write him your wants, mentioning The Homestead.

Prichard & Sons on the Horse Outlook.

W. E. Prichard & Sons, Ottawa, Ill., the well-known importers of Percheron and Belgian horses, write us that they have been experiencing a brisk and consistent demand for big, strong, rugged drafters. They state that the trade shows a decidedly optimistic tone. They state further: "Our prediction, early in the season, that bumper crops and progressive public sentiment in live stock channels would create a keen demand for good draft stallions in 1913 has come true. Never has there been a more earnest desire on the part of the American farmer to take up the raising of pure-bred draft horses than during the early weeks of 1913. And this desire is expressing itself in a substantial way. Action has taken the place of hesitation and breeders are supplying themselves with high-class stallions to meet the demands of the coming season. To those who have not yet supplied themselves we will say that we have on hand a splendid collection of Percheron and Belgian stallions, imported and American bred, ranging in age from yearlings to six year olds. In buying a stallion a man should be critical. We like to show our horses to the critical buyer, because we know they will stand inspection. If you want the big-boned, clean-jointed kind, with deep bodies and wide ends, come and inspect our offerings. They will please you. During the past ten days we have sold and shipped three stallions to Illinois buyers, two to Montana, two to North Dakota, one to Minnesota and one to Maryland. It's easy to buy of us because of prices are reasonable, our guarantee reliable and our methods of doing business clean and satisfactory. Others have found these things to be true and you will be no exception to the rule." See advertisement elsewhere.

Donohoe's Angus Sale.

On March 5th, M. H. Donohoe, Parnell, Iowa, will hold a sale of Aberdeen Angus cattle at the Williamsburg sale pavilion. G. W. Felton, Knoxville, Ill., is consigning ten head of excellent females to this sale. Fifty-two head will be sold in the sale, consisting of ten bulls and forty-two females. Among the bulls are a number of high-class herd header propositions. Black Oakfield is one of the best bulls in the sale. He is a September yearling by Black Woodlawn and out of Black Cap Cherokee 2d. This bull has been good enough for Mr. Donohoe to use on some of his best cows and to those who know Mr. Donohoe this is sufficient evidence that he is a good one. Bombay D. is another July yearling by Egan Star by Black Woodlawn that is an extra good bull and will suit someone looking for a herd header. Bedford D. is a son of Black Woodlawn that will suit a critical judge. Black Banco D. is an extra good Queen Mother bull that will sire a lot of market-topping steers for someone. Among the cows Blackcap 26th is one of the best propositions in the sale. She is the daughter of the noted cow, Blackcap Judy, and sells with a heifer calf at foot sired by Bermerton's Prince. Blackbird Mary is another one of the good cows Mr. Donohoe is listing for this sale. Angus breeders generally know the reputation of this cow as a breeding cow and she is due to calve in May. Blackbird Favorite 3d is a daughter of Black Woodlawn and a half-sister to Mr. Battles' great show cow, Blackbird Favorite 2d. Blackbird McHenry 73d is an extra good cow by Proteros. Mr. Felton is listing some of the very best cows he owns. Blackbird McHenry 66th is an extra good cow that has changed hands at a price well up in three figures and few better ones can be found. Her daughter by the great show bull, Bermerton, is also cataloged. Blackbird Cherokee 26th is an extra good cow that Mr. Felton very reluctantly consigns in order to make the sale attractive. This sale will interest any Aberdeen Angus breeder in need of a herd bull or valuable female to add to his herd. A catalog can be had by mentioning The Homestead when writing to M. H. Donohoe, Parnell, Iowa. See the advertisement elsewhere in this issue.

Suzette 1526, Champion of Iowa, 1912, Changes Ownership.

This beautiful sorrel filly, adorned by a silver mane and tail, was foaled at H. Lefebure's farms at Fairfax, Iowa, in 1910, present weight 1,930 pounds. She was the first-prize yearling filly of the Iowa State Fair and the Chicago International in 1911. At the Iowa State Fair in 1912 she was first in the two-year-old class in competition with the best imported fillies of this and adjoining states; she won championship of Iowa over matured and imported mares, and she was the reserve champion at the Iowa State Fair in the open champion class, all states competing. At the Chicago International in December, 1912, she won fifth in the strongest class of Belgian mares ever lined up in an American show ring. At the same place she won a $100 gold medal offered by the Belgian Horse Society of Belgium. Besides the above prizes she won several specials given by the Belgian Horse Society of America, making a total of one gold medal and ten ribbons, all blues but two, won by this noted Linn county filly in just two years' time and at the greatest shows of the country. Mr. Lefebure sold this filly recently to Ben L. Clark, Shannon City, Iowa, for $1,500. Mr. Clark also purchased a team of imported blue rdan Belgian two-year-old fillies for $1,400 and his purpose in buying Suzette is to use her as a cornerstone in the establishment of a stud of pure-bred Belgian horses on his farms. At the St. Louis World's Fair of 1904 it was a two-year-old filly bred and exhibited by H. Lefebure that was the grand champion Belgian mare of that show; this filly and her three-year-old sister, also bred at Fairfax, were sold to the Reed Ranching Co., Alberta, Canada, for $2,000 to be used as the foundation of a stud of pure-bred Belgians, that has already become very popular in western Canada. The above indicates that if the Iowa farmer would give his colts proper care and attention it would soon become unnecessary to go to Europe for good horses. We lead the world in cattle, hogs and sheep, and if the horse breeders would give their horses the same care that the cattlemen give their cattle we would soon lead the world in horses. Mr. Lefebure imported forty head of Belgians last April, sixty head in October and, in order not to allow the supply on hand to run low, he has arranged for another large shipment to arrive the 15th of March. See advertisement elsewhere in this paper.

Meith's Short-horn and Poland China Sale.

One of the early March sales of the season will be the one that will be made by A. L. Meith, Cairo, Neb., on March 5th. At this time Mr. Meith will offer forty head of young Short-horn stuff and forty head of Poland China bred sows. This sale should interest those looking for good stuff and yet not wishing to pay the price for an abundance of fat, as is necessary at some auctions, for this stock, both the Short-horns and the Poland Chinas, will be presented in their working clothes. We do not mean that they are not just as good as though they were heavily fatted, for they are just as good and in many ways better, yet many buyers will pay for the big fat and many men are disposed to supply what the market wishes. However, it will be possible to buy these cattle and hogs at a little less money than if they were in the pink of condition, but all that money is absolutely net to the buyer, for the excess burden of fat just mentioned avails the buyer but little. Mr. Meith is a pioneer in the breeding of pure-bred stock in Nebraska and of the older herds his is one of the top ones. This herd of Short-horns was founded when the country and the business was new. It should be the place to buy good stuff and we believe that it will. The young things are mostly sired by the good breeding bull, Lord Missie 2d by Prince Victor 2d by Prince Gloster. His dam was the good cow, Victoria 8th, and the dam of Prince Victor 2d is the noted cow, Victoria Countess, a cow that Geo. Allen paid Mr. Dryden $1,000 for. The Poland China offering is a strictly useful one and of good blood lines. Mr. Meith has always employed good breeding and the results of it are apparent. Try and attend this sale if in need of something of this sort, for there will be such a number to sell that there are bound to be some bargains. Parties from all points can easily gain access to Grand Island and the Burlington passenger trains leave there for Cairo at 3:06 and 10:25 o'clock in the afternoon, and a local freight leaves about 7:30 in the morning. Make plans to attend this sale and if possible go to Cairo the afternoon of the day before.

Broughton's Hereford Bulls.

In a recent letter from Ben Broughton, Lake View, Iowa, he has the following to say about some bulls he is offering: "I am offering a splendid young bull called Dobson that is good enough to head any herd. He is a November calf and will weigh 1,100 pounds. This bull will make a herd bull for any of our best herds and the man who wants him should lose no time in coming after him, as he will not remain long with the present demand. Another young bull sired by Beaumont Jr. and out of Mellita, a granddaughter of old Autocrat and Washington, is also for sale and I will price him where any man can afford to buy. The sire of the first bull mentioned, Dobson, is Beaumont Jr., and his dam is Dimple, one of the largest strain of cows on my farm. This young bull will weigh 2,400 or 2,500 pounds when matured and he is a strictly herd-heading proposition." Write Mr. Broughton about these bulls, but the best thing to do is to get on the train and go and see them.

Pederson's Poland China Sale.

On February 28th, at Dunlap, Iowa, C. M. Pederson will make a public sale of forty head of bred sows and it will be one of the very last sales of the season. He is selling a nice, useful and well-bred bunch of sows bred to good boars and it will be a splendid place to buy. There will be fifteen tried sows in the sale and these are as good as he has in his herd. Then there will be fifteen tried sows in the sale and these are as good as he has in his herd. Then there will be fifteen head of fall yearlings and ten head of spring gilts. Many of these will be sired by Gold Dust Wonder, while others are sired by Chief Price Again, Miller's Tecumseh, Miller's Chief Price, Long King's Enterprise and Ruebel's A Wonder. These sows are bred for early litters to Long Orange, a son of Big Orange; also to Gold Dust Wonder and Defender Again. As this will be one of the very last sales of the season it behooves you to be at his sale if you are going to want Poland China sows. M. T. White will represent The Homestead at the sale.

Fifteen Short-horn Bulls for Sale.

On Saturday, March 8th, at Malvern, Iowa, on the morning of the day of the breeders' draft horse sale, George H. White, Emerson, Iowa, and I. J. Swain, Malvern, Iowa, will sell fifteen head of good Short-horn bulls. Remember that these bulls are going to be sold in the morning and the stallions and mares in the afternoon and those who are going to want these bulls should make it a point to be at Malvern in the morning. Mr. White is one of the best known breeders in the West and he is selling some very choice young bulls from his herd and of his very best breeding. Mr. Swain is also selling some excellent young bulls. One of the bulls they are selling is Sultan Goods by the noted sire, Best of Goods, and out of Village Sultana by Whitehall Sultan. This bull was calved in October, 1911, and is a splendid individual and none better bred. Another good young bull is sired by Best of Goods and is out of a Butterfly cow. Another good bull is Roan Goods, calved December, 1911, by Best of Goods and out of Barmpton Fashion by Imp. Fashion's Favorite. This fellow is very thick and a beefy bull every way you look at him. Then there is another by Best of Goods and out of a Missie cow by Lord Banff 3d. This fellow is past nine months old and a good calf. All of these bulls are very choice and anybody wanting Short-horn bulls should be at the sale.

Healy's Great Sale of Spring Gilts.

On Saturday, March 8th, J. H. Healy will sell sixty head of Poland China spring gilts at Manilla, Iowa, and in many ways it is one of the exceptional offerings of the winter season. There is not an old sow in the sale, every one being a spring gilt, and the entire offering will average right around 400 pounds. They have the size and the quality combined and are bred along big-type lines. The entire offering is sired by Lingford's Choice 60911, the second-prize senior yearling boar at the Nebraska State Fair in 1911. This hog was one of that sensational litter that W. A. Lingford showed that season. One of his litter brothers won first, the Healy boar won second and the other boar was third that year. The first-prize boar was shown again last fall at Sioux City, where he again won first prize. We simply call attention to this at this time to show you what kind of a boar Mr. Healy is using at the head of his herd. Many of the best gilts are bred to the great young boar, Colossal H., that was the top boar in the Alvin Windom sale last fall. The remainder are bred to one of the top boars in the Joe Goltry sale in November and from these facts you can just make up your mind that you will see a great line-up and all sired by or bred to the best boars that Mr. Healy could buy. Nos. 1, 2, 3, 4, 5 and 6 are all litter sisters and they are out of a sow called Edna by Young Look, bred by Johnny Meese, of Nebraska. These are outstanding good gilts and they will average 400 pounds and there is not a poor one in the bunch. You could shut your eyes here and pick a gilt and be sure you would get a good one. Nos. 7, 8 and 9 are out of Broadface Hadley, a daughter of Mogul Hadley, bred by John Blain, and these are just as good as he will offer in the sale. Three April 17th gilts Nos. 10, 11 and 12, are out of a sow called Lengthy, a daughter of Mogul Hadley. The dam of these gilts is one of the largest and best sows in the herd. These gilts, while farrowed in April, are going to weigh 400 pounds by day of sale. Four other April 9th gilts are out of Sweet Hadley and will rank right

NEXT WEEK'S SALE PROGRAM

Monday, February 24	Poland Chinas, J. M. Sheehan, Stuart, Iowa. Duroc Jerseys, Madison Spencer, Audubon, Iowa. Duroc Jerseys, Jess C. Andrew, La Fayette, Ind.
Tuesday, February 25	Short-horns, R. M. Parker, Midland City, Ill. Poland Chinas, W. M. Shrader & Co., Stuart, Iowa.
Wednesday, February 26	Herefords, Warren T. McCray, Kentland, Ind. Poland Chinas, J. W. Pfander & Sons, Clarinda, Iowa. Poland Chinas, L. R. McClarnon, Braddyville, Iowa.
Thursday, February 27	Chester Whites, John F. Holst, Jr., Denison, Iowa. Herefords, Thomas E. McCarty, Peoria, Ill. Duroc Jerseys, J. O. Duncan, Lebanon, Ky. Aberdeen Angus, J. V. Arney, Leon, Iowa.
Friday, February 28	Poland Chinas, C. M. Pederson, Dunlap, Iowa. Duroc Jerseys, E. S. Mayes, Jr., and McKee Bros., Springfield, Ky. Chester Whites, C. C. Evans, North English, Iowa.

FRANK IAMS' DRAFT STALLIONS

are **"up to the minute"** and 10 years in advance. They are the **"drafty, big-boned type"**—**"nifty, big black boys"**—the **real "medal winners"**—sensational **"show and business horses"** of note, **"ripe peaches"** from the **select "400." Big, classy "peaches and cream" black boys.** The **"Iams brand"** of drafty **"top notchers."** Iams' **importation of Percheron and Belgian stallions** and **mares** are in the **"pink of condition"** and ready for a **"good selling." "Ikey boy," smile sweetly,** and hundreds of Iams' satisfied customers **"will sit up and take notice"** that **Iams,** the **"king pin"** horse importer, is still **"doing business"** at the **"old stand." Iams** is **"pushing"** his horses to the front. The big **"peaches and cream"** "boys and girls" are **attractions** that can't be overlooked. Iams **mesmerizes** buyers with **"real drafters"** at **"bargain prices"** and having the **"horses as advertised."** Iams' **"competitors"** and **"hammer knockers"** are **"boosting** Iams" by their "knocks," until **now** he is **known** as the **"millionaire horseman,"** and on **"Easy Street,"** and growing fast. **Ikey, "come on along" and sing Iams' song.** He is selling these **"aristocratic," fancy "black boys" cheaper** than ever—or **better** horses **for less money—$1,000 and $1,400** (few little higher). Iams has

"Ikey Buyer." Bea "Wise Guy" —Buy **"Show Horses"** of Iams—who has crossed the Ocean **50 times** for horses and **sold 4,444 Registered Horses, "Iams' 30 years of success"** make him a safe man to buy from at Special Low Democratic Prices. "Everybody's Doin' It.

100 PERCHERON AND BELGIAN STALLIONS AND MARES 100

They are **"models"—"humdingers."** They are 2 to 5 years old, weigh 1,700 to 2,500 pounds, 80 per cent blacks, 50 per cent ton horses. All **"registered," approved** and **inspected** by **governments of France** and U. S. and **certificates "stamped O. K."** All **"sound," "bell ringers" ("Iams' kind"—** need **no "state law"** to make **"them sound.")** Many **"prize winners"** and **"gold medal horses."** Big, **drafty "topnotchers,"** with big bone, quality, style, finish and **action to burn.** They are **"eye openers"**—larger and better horses than seen **elsewhere.** Big **"business propositons"** that make **"the wheels work fast"** under a **"buyer's hat." "Georgie, dear,"** Iams made a **"big killing"** by buying his horses in Europe in October, 1912. **"War scare," "dry weather,"** "bad crops," **"close money"** and **"Iams' cash"** caused the **"prize winners"** and **"tops"** to be thrown on the **market** for a **"good selling."—Iams "cut the melon"** and bought the **"rippers"** at **"knock-out prices." Iams** will give his customers the benefit of his **"good buy." "Ikey boy," "come on down town"**—see Iams—"Everybody is Doing It."

Get into Iams' "get rich wagon" and save $1,000 on a "top stallion"

(and you **wear the diamonds**). Iams is a **"big fly in the jelly"** in the horse world. "He keeps the guessing." Iams sells "imported horses only" —(they win 90 per cent of prizes at big horse shows). **No American-bred "full bloods"**—no **"auction stuff"** or **"peddlers' horses"**—only **"choice drafters" of big size, bone, quality** and **finish. Iams** was the **"crack stallions** and **mares"** you **"read about."** Buy horses of **Iams** and you won't **"get stung"** in **horse** or **price. "Dolly D.,"** waltz me around **once** again, **"Ikey,"** land me at **Iams' box office** and **importing barns.** Full to "the roof" with **"black boys"** (and all must be sold). **Reduced prices.** All the world knows Iams and his **"peaches and cream" horses.** 1913 **promises** to be a **bumper** year to **Iams** and **his customers.** He saved **$300,000 to stallion buyers** in 1912. **Watch "Iams' smoke."** Iams' **30 years of successful business** make him a **safe man** to do business with. **Iams sells horses "on honor."** A boy or a lady can buy as cheap as a man. **Iams' 1913 horse**

Catalog is an "eye opener." It has a "laugh" and a $1,000

bargain in every line. A **"bunch of gold"** to stallion and mare buyers. It is full of the real **"peaches and cream"** stallions. It is the **finest, most elaborate and original up-to-date horse book** in the world. Iams, the **"square deal" horseman,** makes every statement in **ad** or **catalog good**—or you get the $500 he **hangs up. Iams** guarantees to sell you a **better**

Imported Stallion at $1,000 and $1,400

(few higher) than are sold to **stock companies for** $4,000. Imported mares, $700 and $1,000. Iams gives **60 per cent** breeding guarantee; **pays freight** on horse and **fare** of one buyer. He can furnish $1,500 insurance. **Iams buys** and **sells every stallion himself. Saves buyers $1,000 in middlemen's profits.** He buys stallions by **"train load."** He speaks languages—(saving 20 per cent). He is **not** in the **"stallion trust."** No **partners** to share profits. He **"pays cash"** for his horses—and sells **"topnotchers"** by **"hot advertising"** and having **"the goods." "Big Ikey,"** leave your "happy" home and buy a **"top"** stallion or pair of **imported mares** (of **Iams**) that bring colts that sell at **$500 each. "Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American full bloods"** of **questionable breeding.** Buy an **imported horse of Iams,** the **"reliable horseman."** (Then we will **"all wear diamonds."**) Iams' **"selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog.** Iams won't let you go without **a peaches and cream** stallion or mare. **"He sells the horses quick."** Iams' guarantees are backed by **"half million dollars."** References—1st Nat'l and Omaha Nat'l Banks, Omaha; Packers Nat'l Bank, So. Omaha; Citizens State, 1st State and St. Paul State Banks, **St. Paul, Neb.** Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL, NEBRASKA

along with the rest. We have just mentioned a few of these, but there are a lot more that are just as good as these we have spoken about. We will guarantee this, that no man who goes to the sale will be disappointed in the Healy offering. It is one of the best offerings of young sows that we have seen in any sale this winter. Write for his catalog and mention The Homestead. M. T. White and C. C. Carlin will represent The Homestead at the sale.

McCarty's Hereford Sale.

The dispersal of T. E. McCarty's herd of Hereford cattle at Peoria, Ill., Thursday of next week, February 27th, should be kept in mind by our readers. The forty-five head to be sold are a well-bred and well-made lot, the kind that will be profitable on any farm in the corn belt. Hereford cattle have worked for Mr. McCarty for many years and he would not dispose of his present herd under any circumstances were it not that he has decided to make a change in his farming operations. This sale follows that of W. T. McCray, at Kentland, Ind., and parties can go from Kentland to Peoria the evening of the McCray sale. Look up the advertisement elsewhere in this issue and arrange to attend this sale.

The Arney Angus Sale.

One of the earlier Aberdeen Angus sales of the season and one that should attract attention will be that of J. V. Arney at Leon, Iowa, on February 27th. The Arney herd has been regarded as one of the best herds in the state and he is selling a very choice lot of cattle in this sale. Among these are show and breeding cattle of the highest order and these are sired by many of the more noted bulls of the breed. There will be twenty-five of his very best cows and heifers listed for the sale and ten young bulls. It will be a most excellent time to buy Angus cows or heifers and it will be a good place to buy a few good young bulls. All of the females that are old enough will be bred and safe in calf to his splendid breeding bull, Black Star 2d, a bull that has sired much of the show stuff that he has been winning on at the fairs. Some of these show cows and heifers he will sell in the sale. Among these is that splendid two-year-old heifer, Katrine of A. She is a royally bred K. Pride and she is in calf to that splendid young bull, Ebony of E. 3d, a prospective young show bull that he recently sold to Mr. Coldwell, of Missouri. This heifer was always in the money and was never lower than fourth, exeept at the International. She is just one of the many good ones that he is selling in the sale. There wil be ten head of good Blackbirds, three Trojan Ericas and the balance will be K. Prides, Queen Mothers and Pride of Aberdeens.

HAMPSHIRE SWINE.

VALLEY VIEW HAMPSHIRES. Breedn stock, either sex, any age, quality unexcelled, satisfaction guaranteed. Fred Wheeler, St. Charles, I

He is selling daughters of such famous sires as Imp. Earl Eric of Ballindalloch, Imp. Black Jester of Ballindalloch, Imp. Proteros and other famous sires. If any of The Homestead readers are on the market for Angus cattle the Arney sale will be an excellent one to attend. Write him for catalog and kindly mention this paper.

The Shadeland Hereford Sale.

On March 6th, at the famous Shadeland Hereford Farm at Kingsley, Iowa, J. A. Shade will make his annual sale of fifty head of registered Hereford cattle. The Shadeland herd of Herefords is today regarded as one of the greatest herds in the West and this draft is one of the best that has ever been sold off the farm. There will be twenty-six head of young bulls in the sale of the highest class and most fashionable breeding. Among these are bulls that can go out and win next fall, and there are some splendid herd bull propositions in the offering. It is a great bunch of bulls throughout, we think the best that Mr. Shade has offered in recent years. More than two-thirds of the bull offering are over sixteen months old. Every bull has been retained for this sale, so you get the pick of all the bulls raised on the farm last year. Among the bulls offered is Rex Dorion, a son of the great and noted bull, Dandy Rex. He is a four year old and a splendid breeding bull. This bull has been used in the Shadeland herd with the best of success. He is the sire of Beau Albany, that sold in his last April sale to go to L. A. Clifford, of Canada, at a long figure, and he is also the sire of the great show heifer, Petunia, in the C. A. Tow sale. Beau Dover, a Gudgell & Simpson-bred bull, goes in, and he was one of the best things that that noted firm have turned out in recent years. There will be six very excellent young bulls by Beau Elect in the sale—Elect 4th, Elect 5th, Elect 7th, Elect 9th, Elect 10th and Beau Albany 2d. Any one of these bulls will make a good herd bull and they are out of the best bred cows on the farm. The breeding and individual merit of these will commend them to anybody looking for herd bulls. Another splendid bull that is listed is Monarch 9th and several of the best cows in the sale are bred to him. Among the other good ones are Beau Matchless by Beau of Shadeland 35th, Matthew of Beaumont Jr., Duke of Dudley and Belfast, any one of which should make great breeding bulls. Fourteen of the best cows in the Shadeland herd have been listed for this sale, all with calves at foot and bred again. Ten of the

TOO LATE TO CLASSIFY.

Swallow's Closing-Out Sale

Dispersion Sale at My Farm Near BOONEVILLE, IOWA, THURS., MARCH 6

MY entire herd of fifty Poland Chinas will be disposed of at this sale. It includes a prize winning herd boar, A Wonder; two coming yearling boars, eight boars five months old, nine tried two-year-old sows, ten spring gilts and thirteen head of fall pigs. The sows carry the best strains of blood of the breed. They will have been bred for March, April and May litters. The older ones are recorded and all others are eligible to record. Buyers will be met at Booneville and Waukee.

W. Z. SWALLOW

John Duff, auctioneer. **Waukee, Iowa.**

THE PURE-BRED BELGIAN STALLION Bristol Delange, foaled in 1902, will be sold at my sale Feb. 27, 1913. Will weigh a ton in breeding condition, a certain breeder. A low-down blocky kind, sound, plenty of bone. Too many of his mares in this vicinity is my reason for offering him for sale. **G. W. BASKERVILLE, Jolly, Iowa.** Five miles west of Jolly, Iowa, six miles south of Fonda, Iowa

CLOSING-OUT SALE, MARCH 5
18 PERCHERONS
THREE STALLIONS FIFTEEN MARES
Write me.
WM. D. WHISLER, Box 154, Garner, Ia.

RED POLLED CATTLE

WE ARE offering a splendid bunch of heifers, some choice young cows with calves at side, also some tried cows due to calve soon. A few bulls of serviceable age. Address, mentioning The Homestead, Roger Van Evera, R. 1, Davenport, Iowa

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address
H. H. REED, - MARENGO, IOWA.

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Each a splendid animal and offered at extremely low prices. Call or write **V. W. HARMS, Fairbury, Illinois.**

FOR SALE—An English shire stallion and a Missouri-bred jack. Good breeders. Sure foal getters. Prices reasonable. L. B. Cummings, Clearfield, Ia.

FIRST CHECK of $175.00 takes three roan recorded Short-horn heifers from one, two and three years old. P. Bischmann, Monee, Illinois.

WE now offer 30 head of registered females and 8 May Rose bulls, 5 of them ready for service. **WILCOX & STUBBS CO., Des Moines, Ia.**

AYRSHIRE Cattle for sale. Bred for good dairy results. Breeders and Shippers. Prices reasonable. **F. TSCHUDY & SONS, Monroe, Wis.**

TOO LATE TO CLASSIFY.

ROYAL SOVEREIGN

ONE of the greatest Scotch bulls of the breed is the sire of the young bulls we have for sale. We maintain a herd of heavy-milking cows that are great fleshers. We name farmers' prices on the young bulls. Write us. Address

L. Chestnut & Sons Geneva, Neb.

SHORT-HORNS

FOR SALE OR TRADE

MUST sell by March 1st. My herd of 15 head of Short-horns, 4 cows, 3 three-year-old heifers and 2 choice yearling heifers, all in calf to Count Rosemary, the pure Scotch herd bull. 5 summer calves, 2 bulls and 3 heifers. Will take high-grade draft horses, mare or geldings, or give terms. No land.
C. H. DRAKE, HAZLETON, IOWA.

SHIRES

TWO GOOD STALLIONS and FOUR MARES for sale. Write for information and price.

ROBT. JARMAN, Carlinville, Illinois

LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Are of the Brawith Bud, Princess Royal, Alexandria and Athene families. Are priced to sell. Come and see or write.

R. E. BALDWIN

Osceola, Clark Co., Iowa, on C. B. & Q. Ry.

D. S. POLLED DURHAMS

10 BULLS, 10 to 18 months old, all red, good individuals. Herd established 18 years. Prices reasonable. Write what you are in need of. Farm within town corporation. Address
L. L. HENNINGSEN'S SONS, Dike, Iowa.

15 SHORT-HORN BULLS

ALL blocky blood reds 10 to 14 months old. Address **J. E. BARR, R. F. D. 4, Davenport, Iowa, successor to I. Barr & Son.**

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable. **Willard Miller, R. F. D. No. 2, Anita, Iowa.**

calves that sell with their dams are nearly of serviceable age. This includes Delight 3d, the two-year-old champion cow; Lady Lavender by the champion bull, Castor; Geraldine by young Beau Brummel, nearly a full sister to the champion, Scottish Lassie. He is also selling that splendid cow, Petonette, a daughter of that world-famous bull, Beau Brummel, and this is one of the last chances to buy a daughter of that noted sire. Ten splendid two-year-old heifers have been reserved for this sale and they are an excellent lot. These are all bred and safe in calf and in point of breeding and individual merit cannot be surpassed in any sale this year. The Shadeland offering is one that every breeder should be interested in, as well as every farmer who might want a bull. Make it a point to get the catalog and be sure to be present on day of sale. Write J. A. Shade, Kingsley, Iowa, and kindly mention The Homestead.

A Great Poland China Boar for Sale.

In the dissolution Poland China sale of W. M. Shrader & Co., at Stuart, Iowa, on February 25th, there will be two splendid boars that should attract the attention of breeders who are going to want a herd header. One of these is the great boar, Choice Look, a son of Chief Look by old Grand Look. His dam is Fashion's Pride by Woodland King. This boar is a four year old, but he is one of the great breeding boars today in the West. He is a 900-pound boar in his everyday clothes and is a breeding boar of unusual merit. He is just such a boar as all of the big-type breeders are now looking for and some enterprising breeder who is onto his job will be on hand to buy him. He is the sire of Choice Look 2d, the Sid Reed boar that won at the state fair last fall, and he is the sire of the top of several of the best sales during the past few years. His get in this sale will prove all we have said about him and had we not seen his get and know how he breeds we would not be as emphatic in insisting that here is a boar for the big breeders to go after. He is a large hog and he breeds size and quality to go with it. The breeders of big-type Polands will miss it if they pass this boar up, as he is a hog that the best of them can use. The young boar, Big Improver, is also a promising young boar and he was one of the highest-priced boars last fall. He is a grandson of Big Victor and Hadley's Expansion and he is a good young boar. Now about the Choice Look sows that they are selling in this sale. They are an outstanding good bunch of sows with size and quality and here will be one of the best sale offerings of the rapidly closing season. Many of the sows not related will go into their sale bred to Choice Look. Write W. M. Shrader & Co., Stuart, Iowa, for catalog and kindly mention The Homestead. M. T. White will represent The Homestead at the sale.

The Kansas City Hereford Cattle Sale.

The sixty Hereford bulls and forty females that sell in the Kansas City sale on March 4th and 5th, under the management of R. T. Thornton, 1309 East 15th St., Kansas City, Mo., have such quality and breeding that buyers should be attracted from a wide territory. The list of breeders contributing to these sales is sufficient guarantee that the cattle are right. Many choice herd headers have been sold in former sales held by them and there are more prospects of this sort in this than in any former sale they have held. The females are such that buyers wanting a choice cow or two to add to herds or those desiring to buy foundation stock should inspect this offering. Benton Gabbert, one of the oldest and most successful breeders, says their bulls are much better every way than the first Hereford bull he bought for $500. They are an even lot, well bred and well fed on feed raised on the farm. Mr. Gabbert mentions Lot 42 of the catalog, Columbus Prize 25th, a November yearling by Columbus 53d, a son of old Columbus and out of Viola by Onward 19th that he sold to the state university, where he sired several prize steers. His individuality and select pedigree should insure a good herd header. Mr. Gabbert also sends a fine string of Beau Folly bulls that are out of Columbus dams and those looking for serviceable bulls, with good size and splendid bone, should inspect these. J. W. Lenox sends a string of Simoon bulls to the sale that will bear the closest inspection. Simoon was got by old Beau Brummel, out of a granddaughter of Anxiety 4th, and is one of the good Anxiety bulls in service. The catalogs of the sale tell of the breeding of the offering and as this is the time to buy good cattle our readers who are looking for Hereford bulls or females should arrange to attend this sale. Note the advertisement elsewhere in this issue and write Mr. Thornton now for catalog.

Kent's Chester White Sows.

Elsewhere in this issue will be found the advertisement of Thos. F. Kent, Walnut, Iowa, who is offering for sale a grand good lot of Chester White sows. The Kent herd was one of the greatest prize-winning herds out last fall and for the past year or two. Last fall he went all through the circuit, beginning at Des Moines, then at Lincoln, Hutchinson, Topeka, Sedalia, Springfield and several other great fairs and he made a killing at every show. Mr. Kent has one of the greatest Chester White herds today in this country and no herd living can show a better line of breeding. Mr. Kent formerly owned that celebrated boar, Combination, and he has more Combination blood in his herd than any other in this country. This old boar, Combination, has been one of the most wonderful boars of the breed, both as a show winner and as a sire of show winners. The blood of old Combination lives on and if you want to get it from the fountain head you will have to buy it from Mr. Kent. Other boars used in the Kent herd have either been noted winners or have been sires of noted show hogs, so you can therefore get anything you want.

HEREFORD SALE

By FUNKHOUSER, GABBERT and OTHERS

OUR SEVENTH BIG ANNUAL TWO-DAY SALE

To be held at KANSAS CITY, MO., MARCH 4-5, '13

60 BULLS
40 COWS
AND HEIFERS

EVERY ANIMAL TESTED FOR TUBERCULOSIS. Sixty splendid, big, lusty bulls of serviceable age. Forty excellent young cows safe in calf or with calves at side. Representatives of herd bulls that have made Hereford history. A selected lot from the following well-known breeders:

Benton Gabbert, Dearborn, Mo. — J. W. Lenox, Lake City, Mo.
W. A. Dallmeyer, Jefferson City, Mo. — S. J. Gabbert, Dearborn, Mo.
Funkhouser Estate, Plattsburg, Mo. — T. W. Carmichael, Odessa, Mo.
R. T. Thornton, Kansas City, Mo. — James A. Gibson, Odessa, Mo.

We have sold you good cattle at our former sales, but never before have we been able to offer you as many high-class cattle as at this sale.

For Catalog or other information address R. T. THORNTON, Mgr., 1309 E. 15th St., Kansas City, Mo.

He is offering a great line of bred sows for sale just now. He can fill orders for bred sows, yearlings or spring gilts and these are bred to his very best boars. The Kent advertisement was inadvertently omitted a couple of issues through an oversight and we are now urging readers of this paper who want the best of Chester White bred sows to rush their orders at once. When ordering of Mr. Kent you are getting Chester Whites from a herd that has not had any disease and you are buying from one of the best herds and from one of the best breeders in this country. We therefore say to our readers who are wanting some bred sows to lose no time in getting their orders to Mr. Kent. Kindly mention this paper when sending your order.

Limestone Valley Farm's Jack and Jennet Sale.

L. M. Monsees & Sons, Smithton, Mo., have listed for their thirty-fifth annual sale of jacks and jennets, which is to be held on Tuesday, March 4th, a class of stock that should and undoubtedly will please the more discriminating buyers looking for Mammoth jacks and jennets. Thirty-five head of jacks and twenty-four head jennets are listed, which insures a full day of selling and ample opportunity for selecting from a large number of high-class jacks and jennets. There are in this sale twenty as good jacks as have ever been gathered under one roof and for sale. They range from four to six years of age, are fifteen and one-quarter to sixteen hands standard measure, are blacks with white markings and have as much bone and quality as are possible to find in this number of jacks. They are furthermore as well bred as are found, have the big ears and good heads such as Limestone Valley Farm is noted for. The jennets are in the same class and practically all are in foal to the World's Fair champion, Orphan Boy, a jack that has no superior as a sire. A large number of these sell with colts at foot and among these colts are prospective herd headers. Monsees & Sons make every possible preparation for showing their stock to prospective customers. They would like to have you come a day or two before the sale, so that you will have ample time to inspect the entire offering and ask of them any questions regarding the various animals you may select as being what you desire to buy. Their dealings are such that they bear inspection, they guarantee everything to be just as represented and their guarantee is absolutely good. The catalog is a book of sixty-three pages with illustrations of the stock and Limestone Valley Farm. It is yours for the asking. Note their advertisement elsewhere in this issue and when writing Monsees & Sons kindly mention this paper.

Barker's Futurity Sale.

E. S. Barker's annual bred sow sale, held in his spacious sale pavilion on his farm near Doon, Iowa, was one of the most successful sales of the year. He had the pavilion filled to its capacity when the sale was opened. Among the crowd were breeders, a good representation from several states, and the stock which these gentlemen took with them will prove that Mr. Barker breeds a mighty good kind of hogs. Col. J. A. Benson was at his best, both in his opening address and in the manner in which he handled the sale. Henry Bros., Sheldon, Iowa, topped the sale on a matured sow, No. 5, at $185, with Jerome Summy, Ponca, Neb., coming near them on a gilt at $181. The futurity litter was distributed between Iowa, South Dakota and Minnesota. The first-prize pig was purchased by S. E. Jackson, Hurley, S. D., at $175. The other two of this litter went to J. M. Glasier, St. James, Minn., and E. E. Farver, Ocheyedan, Ia. Ruebel Bros. got a great sow in No. 10 at $150. Mr. Barker's prices did not go to boom figures, but his sale was held at a fairly even figure all through. He was also successful in making some good sales of a few fall pigs. We list all the sales of bred sows below:

1. E. O. Carpenter, Rock Rapids, Iowa ---------- $150.00
2. J. M. Peery, Alvord, Iowa--- 155.00
3. Geo. Van Auken, Doon, Iowa 72.50
4. H. H. Cable, Hudson, S. D--- 80.00
5. Henry Bros., Sheldon, Iowa--- 185.00
6. Geo. Jeffers, Rock Rapids, Ia. 76.00
7. Ed Kressler, Rock Valley, Ia. 72.50
8. Sam Bauer, Le Seuer, Minn-- 70.00
9. Frank J. Hicks, Onargo, Ill--- 75.00

9½. R. E. Beavers, Granite Falls, Minn. ---------- 57.00

10. Ruebel Bros., Marathon, Ia-- 150.00
11. Feay Bros., Larchwood, Iowa 100.00
12. B. S. Warner, Kingsley, Iowa 75.00
13. Mrs. McGowan, Worthington, Minn. ---------- 60.00
14. L. C. Riemenschneider, Wapeton, N. D---------- 75.00
17. Feay Bros. ---------- 105.00
18. H. C. Carpenter, Hudson, S. D. 70.00
20. Will Henry, Marcus, Iowa--- 95.00
21. N. H. Majears, Remsen, Iowa 67.00
22. H. C. Carpenter---------- 66.00
23. Melvin Barker, Doon, Iowa--- 70.00
00. F. A. Parkinson, George, Ia-- 141.00
25. F. E. Jackson, Hurley, S. D-- 175.00
26. J. M. Glasier, St. James, Minn. 102.50
27. E. E. Farver, Ocheyedan, Ia-- 97.50
28. J. M. Peery---------- 125.00
29. August Maurer, Lester, Iowa 152.00
30. J. M. Glasier---------- 112.50
31. August Vaupel ---------- 101.00
32. Henry Dorr, Remsen, Iowa-- 100.00
33. McNiff Bros., Luverne, Minn. 51.00
34. F. M. Zenor, Woolstock, Iowa 65.00
35. Whiting Farm, Whiting, Ia-- 145.00
36. A. F. Jensen, Ellsworth, Minn. 80.00
37. Jerome Summy, Ponca, Neb-- 181.00

39½. G. J. Bloemendaal, Alton, Iowa ---------- 55.00

40. H. O. Marin, Elk Point, S. D-- 57.50

SUMMARY.

40 head -------$3,849; aver-------$96.22

PERCHERONS, JACKS AND JENNETS

AT AUCTION, AT

Kirksville, Mo., Thursday, March 6th

20 Head Imported and American-bred Stallions and Mares.

25 HEAD Mammoth Black Jacks and Jennets

STALLIONS range from 1,800 to 2,000 pounds, are a tried and proven lot of blacks and dark grays. An exceptional lot of mares safe in foal. The second-prize 2 year old 1911, and first-prize weanling, 1910, at Missouri State Fair are included. The jack and jennet offering is superior in every way. The blood of old Hanibal, Planter and Clearmont predominates. Send now for catalog, mentioning The Homestead.

Col. Geo. P. Bellows, Auctioneer.

S. J. MILLER, Kirksville, Mo.

Dispersion Hereford Sale

PEORIA, ILL., THURSDAY, FEB. 27th

46 HEAD--7 BULLS Including my herd bulls, Bondsman by Disturber and Perfection 2d by a son of the champion, Perfection. This offering will comprise a most useful lot of well-bred cattle, strong in the blood of Disturber, Beau Donald, Perfection, Corrector, March On and other great sires. Ten cows will have calves at foot. I have been breeding Herefords for twenty-two years with pleasure and profit, and were I not making a change in my farming operations these cattle would not be for sale at any price. Send for the catalog, mentioning The Homestead. Colonel Reppert, auctioneer. This sale follows that of W. T. McCray, at Kentland, Ind., February 26th, and can be easily reached from there. Address

THOS. E. McCARTY, PRINCEVILLE, ILL.

REGISTERED PERCHERONS
French Draft Stallions and Mares
AT AUCTION

Battle Creek, Iowa, Friday, March 7th

THIS is a closing-out sale and will include two of as good heavy weight imported Percheron stallions, age 6 and 7 years, as can be found in any importing barn, and have proven good breeders. The balance are mares in foal, fillies and stud colts from the above sires, 12 head in all. This is an unexpected sale. On account of a recent illness will not be physically able to handle them, for that reason I haven't time to make catalog. Registers furnished with each animal.

V. D. WOLCOTT, - BATTLE CREEK, IOWA.

P. McGUIRE and F. O. CUBBAGE, auctioneers.

DISPERSION SALE

Registered Percheron Mares and Stallions

Tarkio, Mo., Wednesday, March 12, 1913

12 Mares and Fillies, 18 Stallions and 4 Mammoth Jacks

TEN of the mares weigh from 1,800 to 2,100 lbs. Several tried ton stallions. Jacks are blacks that weigh from 1,000 to 1,200 lbs., are heavy boned and broke. A strictly useful, high-class lot of Percherons, mostly blacks. Sale in town, under cover, in F. S. Travis' new implement building. For catalog address

L. H. LUCKHARDT - - TARKIO, MISSOURI

Auctioneers: BELLOWS and MANIFOLD.

NOTHING FOR SALE

MY correspondence is running from 20 to 30 inquiries per day. I will book orders for Hampshire spring pigs any time from now. Write soon if you want one and mention The Homestead. CLAYTON MESSENGER, Keswick, Iowa.

ABERDEEN ANGUS CATTLE.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty 50 coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazlmura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

AMSBERRY'S ANGUS

TWENTY extra choice young cows and heifers,al so a few young bulls and one aged Blackbird bul for sale. Popular breeding and attractive prices Address J. A. Amsberry & Son, Mason City, Neb

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

I AM OFFERING for sale at private treaty 14 Angus bulls from 8 to 16 month of age. Nearly all of them are sired by Blackbird Jack 129823,one of the good sons of Black Woodlawn, and all of them bulls of quality and breeding. There are 3 Blackbirdas, 2 Trojan Erics, 3 Queen Mothers and 1 Pride in the lot. A.G.Messer,Grundy Center,Ia.

QUALITY in ANGUS BULLS

Big, black business bull—Ready for you—The kind you want— Both quality and price will please—Come to see. **H. J. HESS** WATERLOO, IOWA.

SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy, Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

THE FARMERS' SHORT-HORNS

MILKING SHORT-HORNS. Cows that have made a pound of butter a day under official tests. Bulls which carry strong milking strains and are good Short-horn types. Have extra good young stock from these animals for sale. Address J. C. CHARLSON, - Leland, Iowa.

Short-Horn Bulls for Sale

I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address PERRY O. BROWN, Lamoni, Iowa.

15 SHORT-HORN BULLS

ALL blocky Blood Reds, 10 to 14 months old. Address J. E. BARR, R. F. D.4, Davenport, Iowa, successor to I. Barr & Son.

7 GOOD YEARLING SCOTCH AND Scotch-Topped Short-Horn Bulls

FOR SALE at the Pike Timber Stock Farm. Address Davenport & Mack, Belmond Iowa.

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

WAY SIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address G. H. BURGE, - - Mt. Vernon, Iowa.

EGGER'S SHORT-HORNS

THE real beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and address J. F. EGGER & SON, ROCA, NEB,

FOR SALE 1 red roan yearling Scotch Short-horn bull, 1 eight months old black Percheron filly, 1 three-year-old French Coach stallion, 6 choice, big-type Poland China gilts. Address Henry Moll, Garner, Iowa.

SHORT-HORN MALES Yearlings all sold,have a nice lot of 1912 calves, redsand roans. J. T. Swearingen & Sons, Hedrick, Ia.

RED POLLED CATTLE.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C. FRANK J. CLOUSS, Barnum. Iowa.

Heavy Milking Red Polls

A FEW very choice bulls, old enough for service Also a number of very choice females. Our herd won numerous first places and champions at the fall fairs. Our prices are very attractive. Addres THOS. L. LEONARD, Beaver Crossing, Neb.

WILES' RED POLLS

SOME very choice bulls, good even fleshers, som by Happy Jack 2d and all out of choice milking dams. The breeding is first class and the prices right. LUKE L. WILES, Plattsmouth, Neb

GALLOWAY CATTLE.

PURE-BRED GALLOWAYS

Bulls, Cows and Heifers for sale at farmers' prices. JAMES P. MILLIKEN, MEDIA, ILLINOIS
Main line Santa Fe Railroad.

IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address. C. S. Hechtner, Chariton, Iowa.

PURE-BRED GALLOWAY BULLS

10 to 12 MONTHS OLD,
PRICE $50 to $65
W. W. SCHOLES, ONAWA, IOWA

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

HEREFORD CATTLE.

Hereford Bulls for Ranchmen or Farmers

BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah. Newton, Iowa.

HAGER'S HEREFORD SALE

AVOCA, IA, MARCH 20, '13
50 HEAD—25 bulls, 25 cows and heifers.
Send for my catalog. Address
A. F HAGER AVOCA, IOWA

HEREFORD BULLS

12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals. G. G. CLEMENT - - ORD, NEB.

When writing to advertisers please mention The Homestead.

Hereford Bulls

I HAVE a good thick yearling at $150. A good 2 year old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, and they are good ones. Lamplighter, Earl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa. P. W. REECE, R. 3, ELLMORE, MINN.

Ten Head of Recorded Hereford Heifers for Sale

Call on or address B. W. GREGORY, Harlan, Ia.

C. C. Evans, of North English, Ia.,

Has sold his farm and must immediately reduce his great herd of Chester White bred sows and gilts, and also his fall pigs of both sexes. Therefore he will offer at public sale at farm, 5 miles north of North English, Iowa, on

FRIDAY, FEBRUARY 28, '13

30 Head of Recorded Bred Sows and Gilts, 20 Head of September, 1912, Farrow Boars and Gilts.

Every sow, gilt and boar in this herd and offering has been vaccinated and are immune from hog cholera. This, of course, includes the boars to which the sows and gilts were bred. All will be fully guaranteed to the purchaser to be immune. Sires: Combination 2d, Triumph Joker, Chief O. K., Noximal and New Hampton King. These five blood lines are among the best in the U. S. This offering is bred to Combination 2d and Chief Keokuk 21645. Two boars that are unsurpassed in the great corn belt today. The fine boar, Chief Keokuk 21645, will be in the sale. While this boar has never been shown he is claimed by leading breeders as one of the best individuals of the breed. He was farrowed October 8, 1910, sired by the great Wonder 18069 and out of Counselor Girl 39664. The fall pigs include some "herd header" prospects in both sexes. This is a great chance to get some fine bred sows and gilts. A chance that does not come often. One that has taken much time and money to produce. Time will not permit catalogs to be printed. You know what this offering will be. Come. This is your invitation. If impossible to attend send your mail bid to Jas. R. Moore, of the W. B. C., in my care. Write me for particulars about some of the sows if you can't attend, so you can send a mail bid, but come, if possible, and take advantage of this rare opportunity. I have sold my farm on short notice and am compelled to reduce my herd that I was keeping for my own use, and which I would part with under no other conditions. Free accommodations at both hotels in North English night before the sale. Terms to suit the purchaser. Every sow and gilt guaranteed to be with pig and immune from hog cholera. Full particulars of this guarantee will be given on sale day.

C. C. EVANS, - NORTH ENGLISH, IOWA.

Remember the date, note the guarantee, look at the great blood lines. COME!

JOHN F. HOLST'S

SALE CHESTER WHITE BROOD SOWS

DENISON, IOWA, THURSDAY, FEBRUARY 27, 1913

40---HEAD---40
23 yearlings and tried sows, 17 choice gilts

THE BEST lot of Chester White sows ever sold in Iowa

THESE are sired by Perry, a grandson of old Combination; Young America; Fancy Boy, a son of the great Keep On, and other noted boars. These are bred to Combination III., Ike and Fancy Boy, my three herd boars. I am selling a great lot of sows in this sale. C. C. Evans, auctioneer. C. C. Carlin, field man for The Homestead. Write for catalog and mention The Homestead.

JOHN F. HOLST, JR., - - - DENISON, IOWA

25 MAMMOTH JACKS. 25 JENNETS

MISSOURI, Iowa and Illinois prize winners in 1912, and others as good 15 to 16 hands high jacks are priced right. They range from two to five years, have big bone, good heads and ears, and are blacks with mealy points. Come and see them or write, mentioning The Homestead,

DEIERLING & OTTO, Queen City, Schuyler Co., Mo.

MISSOURI AUCTION SCHOOL

KANSAS CITY, MISSOURI
THE TERM OPENED FEBRUARY 3, 1913

This is an actual practice term. Get my new free book, it tells how to be an auctioneer
MISSOURI AUCTION SCHOOL, 14th and Grand Ave., KANSAS CITY MO.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. When writing mention The Homestead. THOS. P. KENT, R. 2, Walnut, Iowa.

IMPORTANT ABERDEEN ANGUS CATTLE SALE

TO BE HELD AT THE SALE PAVILION IN

WILLIAMSBURG, IA., WEDNESDAY, MARCH 5

52 HEAD--10 BULLS 42 FEMALES

THE BULLS are nearly all herd headers. Among the good ones are Black Oakfield, a great yearling by Black Woodlawn, Bombay D. by Egan Star by Black Woodlawn; Bedford D., a September yearling, by Black Woodlawn. The above bulls are show bulls and good enough to head any herd. Black Banco D. is a good Queen Mother bull. **THE FEMALES** are the best lot we have ever offered. Such great cows as Blackcap 26th, Blackbird Mary, Blackbird Favorite 3d, Blackbird McHenry 73d and many others will be sold. A grand lot of two year old and yearling show heifers good enough to win are cataloged.

G. W. FELTON, Knoxville, Illinois, is consigning 10 extra good females, including the great cow, Blackbird McHenry 66th, and her daughter by Bermerton, Blackbird Cherokee 26th and other good ones. This is an offering of high-class cattle and will interest all Angus breeders. Mention The Homestead when you write me for catalog, and arrange to attend the sale.

M. H. DONOHOE, - - - - Parnell, Iowa.

Silas Igo, auctioneer. Williamsburg is on the Marion-Ottumwa branch of the C., M. & St. Paul R. R.

LIVE STOCK AUCTIONEERS.

C. C. EVANS
AUCTIONEER

CHESTER White and farm sales a specialty. I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,

C. C. EVANS, North English, Iowa.

COL. H. L. IGLEHEART

Elizabethtown, Kentucky

LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

N. G. KRASCHEL
HARLAN, IOWA.
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I am conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

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I ALSO have a very choice lot of Shetland ponies for sale. Just the thing for a present for the little folks. Priced low for quick sale.

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WILL sell you live stock, farm or ranch, business or residence lots and town sites. Write for terms and dates mentioning The Homestead.

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Pure-bred sales a specialty Write for dates
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POLAND CHINA SWINE.

W. H. COOPER, LIVE STOCK AUCTIONEER

THE fact that I am selling for many of the best breeders of today is ample evidence of my ability to get the value of your property. I am arranging sale circuits, making dates for next season's business, now. If my services are desired to conduct or assist in your sale would be pleased to give you dates and terms.

DON'T FORGET, WE BREED AND SELL BIG-TYPE POLANDS We will sell now some AUGUST boars and gilts, sired by our 860-pound two-year-old boar, BIG BONE 2d, and out of sows weighing 650 to 800 pounds. These at $20 each while they last. If you want some send your check with the order. You can send them back and we will return your money if they don't suit. Can furnish boars unrelated. Address W. H. COOPER, HEDRICK, IOWA.

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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COL. C. O. LOWREY, Auctioneer

PEDIGREED live stock. Also have new plan for selling real estate. It is a money getter. Send for it today. Also my terms. Address
EDGAR, - - NEBRASKA.

COL. G. W. HALLER, Spencerville, O.
Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates.

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50 HEAD POLAND CHINA SOWS FOR SALE 50

WE WILL not make a public sale and we are offering 50 of the best big-type sows ever listed at private treaty. Among these are prize-winning sows, yearlings, spring gilts and matured sows. These are bred to our 1,024-pound boar, Chief Price Again 2d, and W.'s Wonder. Bred for January, February, March and April farrow. Write us at once.

WIGSTONE BROS. - - - STANTON, IOWA

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Pri 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address

E. F. ESCHER - - - MANNING, IOWA

BAIRD'S MAMMOTH POLAND CHINAS

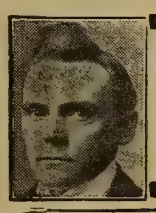
THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address R. B. BAIRD, Central City, Neb.

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address E. V. Waugh, Greeley Center, Neb.

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners
G. A. WIEBE - BEATRICE, NEBRASKA

LIVE STOCK AUCTIONEERS.



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I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.

Harrod, Ohio

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Live Stock and Real Estate Auctioneer.
23 Years' Experience.

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address
C. H. PORTER - EAGLE GROVE, IOWA.

For Sale--Big-Type, Prolific Bred Gilts

AT from $35 to $40, and aged sows at $50 to $60, and a few choice September 3d fall pigs at $20. All healthy and the kind that sell at sight. Will sell two herd boars. Address
J. B. HEISEL - GRINNELL, IOWA.

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30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
P. S. & S. BARR, - Davenport, Iowa.

FOR SALE

A FEW big-type spring gilts, one fall gilt. Will be sold worth the money. All from matured stock Weight 225 to 300 pounds, fall gilt near 400 pounds Also 1912 fall pigs. Write for prices and description Address W. A. Bissonnett, R. 1, Charles City, Iowa

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POLAND CHINA BRED SOWS Sows by our 1,000 lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address
E. J. AUGSPURGER, - PULASKI, IOWA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Iowa

SHADELAND HEREFORD SALE

The Greatest Lot of Cattle Ever Sold From Our Farm

50 HEAD. 26 Show Bulls of the Highest Class and Most Fashionable Breeding. 24 Cows, 14 With Calf at Side and Bred Again, 10 Two-Year-Old Heifers. 50

KINGSLEY, IOWA, THURSDAY, MARCH 6, 1913

The Kind We Breed at Shadeland, All Sons of Beau Elect, Some Promising Herd Headers. The Picture Shows the Smallest Bulls in the Sale. The 15 Older Bulls are the Same Type

THE grandest lot of young bulls that ever left **Shadeland Farm** go into this sale. Both **show and breeding bulls** of the highest order, with exceptional uniformity and unsurpassed breeding. All of serviceable age, from 16 to 24 months. None have been sold and the best go into this sale. There will be **14 of as good cows with calves at foot** as was ever listed for a sale in the West, and these are all bred again. **Ten of the calves are bulls of nearly serviceable age. Ten of the very best heifers in the herd have been reserved for this sale,** and some of these will make show heifers for the fall fairs. If you are on the market for Herefords come and spend a day at **SHADELAND FARM,** the finest in the West.

Parties attending the Funkhouser-Gabbert combination sale on March 4th and 5th can leave Kansas City on the Missouri Pacific at 10:35 p. m. March 5th, reaching Sergeant Bluff, Iowa, at 10:40 a. m., where there will be an extra train awaiting them to reach Kingsley at 11:30 a. m., March 6th. Through sleeping car accommodations from Kansas City to Sergeant Bluff. Parties from the west can leave Omaha at 7:45 and Council Bluffs at 8 a. m. the morning of the sale. Write for catalog at once.

COL. FRED REPPERT AND ASSISTANTS, AUCTIONEERS.
Please mention Iowa Homestead when writing for catalog.

J. A. SHADE, KINGSLEY, IOWA.

MIETH'S BIG SALE

Poland Chinas Short-Horns

Will be Held at Farm Near

Cairo, Neb., Wednesday, March 5, 1913

40 HEAD of choice cattle, mostly young cows and good, thrifty heifers and young bulls, just old enough for service. They are nearly all the get of **LORD MISSIE 2D** by Prince Victor 2d, he by Prince Gloster, the sire of the $10,000 Prince Imperial. These cattle will be sold in only moderate flesh. They are all of good blood lines, however, and my herd is a very prolific one.

THE FORTY POLAND CHINAS consist of 20 sows and 20 gilts. They are sired by the great breeding boar, Quality by Blue Valley Quality; also by Gold Dust by Raven. Raven is a brother to the champion, King Mastiff. They are mostly bred to Expansion Look by the great Expansion Again and Ideal Sampson by Sampson by Pawnee Lad. The sows are the utility kind, not show stuff, but the sort to raise good, strong, even litters. Send for catalog at once and mention The Homestead. Col. Z. S. Branson, auctioneer. J. C. Price, field man for The Homestead. Address

A. L. MIETH - - - CAIRO, NEB.

BREEDERS' SECOND ANNUAL SALE OF

PERCHERON AND SHIRE STALLIONS AND MARES

Malvern, Iowa, Saturday, March 8th

20 Head of Registered Percheron and Shire Stallions and Mares, 1 Registered Spanish Jack, 40 Head of High-Grade Draft Mares, Geldings, Fillies and Colts

OVER half of the registered horses are matured stallions ready for service. These are consigned by the following breeders: **C. E. Hilton, I. J. Swain, Henry Parker, Clara B. Stevenson, O. A. Strahn,** Malvern, Iowa; **E. O. Jackson,** Glenwood, Iowa; **V. L. Gaston,** Tabor, Iowa; **J. H. Clark,** Imogene, Iowa; **C. E. Ballain, W. A. Lang,** Emerson, Iowa; **J. H. Thompson,** Elliott, Iowa; **D. J. Gibbons,** Cromwell, Iowa; **Grant Summers,** Malvern, Iowa. These horses are all good and were raised by the breeders in this vicinity. Weanling colts will weigh 1,000 pounds and some stallions 2,200 pounds. There are some splendid mares in this sale. This is a high-class lot of horses in every way. Write for catalog at once. Col. Carey M. Jones, auctioneer.

15 SHORT-HORN BULLS 15

At 10 o'clock in the morning Geo. H. White, of Emerson, Iowa, and I. J. Swain, of Malvern, Iowa, will sell 15 registered Short-horn bulls of the very best breeding and splendid individuals. If you want bulls be sure to be here in the morning.

FRED DURBIN, Manager **MALVERN, IOWA**

J. V. ARNEY'S SALE

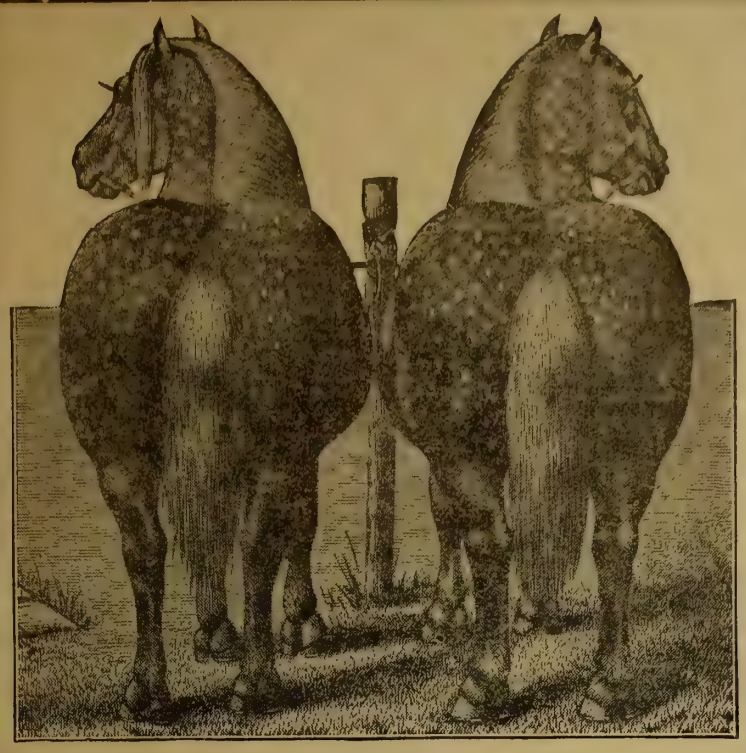
ABERDEEN ANGUS CATTLE

LEON, IOWA
FEBRUARY 27, 1913

40 HEAD, 30 Cows and Heifers 10 BULLS 40

INCLUDED will be ten of my choicest **Blackbird** cows and heifers, among which will be one choice Blackcap, three **Trojan Ericas,** balance **K. Prides, Pride of Aberdeens** and **Queen Mothers.** There will be quite a number of my greatest show winners sired by my great breeding bull, **Black Star 2d**; also daughters of such noted sires as **Imp. Earl Eric of Ballindalloch, Imp. Black Jester of Ballindalloch, Imp. Proteros, Baltimore of Glendale** and other bulls that have made Angus history. There will be ten or twelve good young bulls in the sale. Catalog now ready. Write for it and mention The Homestead. Address

J. V. ARNEY, - - LEON, IOWA
COL. SILAS IGO, Auct.



DANNEN & LOWREY WILL SELL

50 Head of Percherons

AT MARSHALLTOWN, IOWA

THURSDAY, MARCH 6th

THIS offering comprises some of the best in breeding and quality ever put through a public sale, some of them having been shown at Des Moines, Sioux City, Dakota and Minnesota State Fairs, winning everywhere. Among them is the four-year-old stallion, Jambameau 82337 (83856), first-prize winner at the great show at Minneapolis, 1912. This offering is young, clean and nearly all imported. Their pedigrees inspected and passed by the French and American governments. Thirty-eight of these are mares, and all old enough are bred to the best imported sires. All stallions offered, with one exception, are imported, and were selected with the same care we would use in picking one for our own use. Address for catalogs

R. C. DANNEN Marshalltown, Iowa, or H. C. LOWREY, Nevada, Iowa.

Sale to be held in Harmon's sale barn, Marshalltown. Auctioneers, Col. P. McGuire, Col. John Garris.

J. H. HEALY'S

BIG-TYPE POLAND CHINAS

MANILLA, IOWA, MARCH 8TH

60 HEAD of Spring Gilts that will average 375 to 400 lbs. 60

THESE are all sired by **Lingford's Choice 60911,** the 2d-prize boar at Nebraska State Fair, 1911. These are out of my very best sows. In no other sale this year has such an offering been listed for a public sale. Most of these will weigh over 400 pounds by sale day. Most of the best of these are bred to **Colossal H. 65758,** the top boar in the Alvin Windom sale last fall. You never saw a bettor lot of young sows than I am selling in this sale. M. T. White and C. C. Carlin, field men for The Homestead. Catalog now ready. Write for it and mention Iowa Homestead. Address

J. H. HEALY, MANILLA, IOWA.

COL. H. S. DUNCAN, Auctioneer.

CHESTER WHITE SWINE.

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

ALDEN ANDERSON, ELLSWORTH, IOWA

SWEEPSTAKE 28006 WEIGHS 1260, IST AND CHAMPION

Boar at Iowa, 1912, heads our herd of Chester Whites. **We ship c. o. d, and pay all express charges.** Choice growthy bred gilts. Catalog free. We also offer for sale Recorded Shire Fillies, and Mares in foal. Write

B. M. BOYER & SONS - - - FARMINGTON, IOWA

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.
S. J. PHILSON, - Harlan, Iowa.

I AM OFFERING 25 of the very choicest bred gilts sired by Keatsch Shi and Best Regards. Weight 250 to 275 lbs. If you want length and bone combined with lots of quality, come to see them or write me. Also 50 choice fall pigs, Sept. farrow, by Keatsch Shi, the first prize pig at State Fair, 1911. Address
E. H. KAHL, - Buffalo Center, Iowa.

CHESTER WHITE BOARS

OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address
VANDERSLICE BROS. Cheney, Neb.

EVERY Chester White and O. I. C. breeder and feeder should read the White Breeders' Companion, Rochester, Ind., the only paper published exclusively for this breed, 50c a year. Subscribe today

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O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

ORME'S PRIZE-WINNING CHESTERS A few herd headers in July and October boars, a few gilts. A. C. Orme, Nodaway, Ia.

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mproved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

CHESTER WHITE SWINE.

Wildwood Chester Whites Brood Sows for Sale.

6 YEARLING sows and 30 spring gilts bred for late March and April farrow to 4 high-class mature herd boars. Strong bone, good size and in moderate breeding condition. Address
W. W. VAUGHN, - Marion, Iowa.

CROSIER'S O. I. C.'S

LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address
CHAS. W. CROSIER, - Juniata, Neb.

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30 CHESTER WHITE

SPRING and fall gilts bred for last of March and April farrow. Bred to the best boars money can buy. If you are looking for choice individuals as well as breeding I will sell them cheap. Also a few choice Barred Rock cockerels. Harry Hurless, Ogden, Ia.

Chester White Sows

25 bred sows and gilts for sale. Some are show sows and all are as good as can be found. Some gilts weigh over 200 pounds. Bred to an 800-pound boar hog. **Earl Bloom, Bridgewater, Iowa.**

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our are aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today. **MIKE SHARP & SONS, COAL VALLEY, ILLINOIS**

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Keatucky ond Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS**

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address
H. D. DE KALB, - - - - Dekalb, Iowa.

I STILL HAVE SOME EXTRA GOOD HAMPSHIRE BRED GILTS

to farrow in March and April. Also some very good tried sows that are right in every respect. Prices reasonable. Kindly mention The Homestead when writing.
GEO. LIPPERT, - - - - - - - - - - Magnolia, Illinois.

SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, Reserve grand champion boar, 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale. All sows bred to these great boars will sell in our sale February 5, 1913. Mention Homestead when writing.
C. A. BROOK, - - - - WASHINGTON, IOWA.

IMMUNIZED HAMPSHIRES

OUR entire herd has had the simultaneous treatment to immunize them from cholera. We have over 150 head, all of the best breeding, from which to make selections. General Allen, International champion, heads the herd, assisted by General Wills and Riverside King. Write today. We can suit you in quality and price. Public sale of 60 head January 15th. Mention The Homestead and address
J. CROUCH & SON, La Fayette, Indiana.

GOODENOUGH'S HAMPSHIRES

BOARS all sold but two extra good yearlings. I will hold a public sale of bred sows and gilts on January 27, 1913. Write me, mention ing The Homestead.
A. L. GOODENOUGH - Morrison, Illinois

Hillside Hampshire Swine

FALL and winter yearling sows bred to get of Erlanger 1039. Fall sows and male pigs for sale. Prices reasonable. W. M. Sipherd, Grand River, Ia.

MULE-FOOTED SWINE.

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resis disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address **ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio**

BERKSHIRE SWINE.

BIG-TYPE BERKSHIRES.

5 JULY boars, $15; 5 April 1911 sows to farrow in April, $50 each; 2 show sows as above, $60 each; 5 yearlings, $40; 10 spring pigs, $30. Bred to show boar. W. A. O'Brien, West Wind Farm, Route 2, Reedsville, Wisconsin.

YORKSHIRE SWINE.

LARGE YORKSHIRES

Choice breeding stock from state fair prize winners. Gilts bred for May farrow to an importe boar $25 each, registered. Pigs, all ages, either sex Address W. C. Cook, R. 42, Box 22, Ada, Michigan

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DUROC JERSEY SWINE.

DE YOUNG'S DUROCS

A FEW good gilts and bred sows to sell. Best lines of breeding, King of Col.'s Again, Phallas Col. and Crimson Sol., sires of majority. Bred to Crimson Climax boar and others of similar good breeding. **A. J. De Young, Sheldon, Iowa.**

WENDT'S DUROC JERSEY BRED SOWS

GROWTHY brood sow prospects by C. Indicator and Long Hero, bred to Grand King by Crimson Climax, and above boars are individuals on which they could be used. Stretch, bone and size specialties. **W. J. WENDT, Remsen, Iowa.**

BRED SOWS AND GILTS

A GOOD lot of Duroc Jersey gilts, large, lengthy, with good color and plenty of bone, bred to farrow in March; sired by Choice Goods, High Col. and Model Chief; bred to R. J.'s Chief, Harding's Model 5th and King Gano. J. C. Porter, Ogden, Iowa.

WE HAVE A DRAFT of bred gilts that are bred for M'ch and April farrow good enough for a breeder and cheap enough for the farmer. Bred from leading families, mated to best male we have ever owned. Col.-bred hog. For particulars and prices write, phone or come see them. Farm near town. J. W. Troy & Bros., Rose Hill, Ia.

FOR SALE Open gilts by Crimson Col. one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address
C. B. REAM - Route No. 6, Lima, Ohio.

DUROCS Can spare a few choice sows bred for April farrow. Address
L. L. WOODS, - GRINNELL, IOWA.

KEAN'S DUROCS have length, color, bone and breeding. Bred gilts and yearlings. A few good ones left for April farrow. Priced worth the money. **Frank Kean, Mt. Pleasant, Iowa.**

HORSES AND JACKS.

OAKLAWN STOCK FARM BREEDS AND IMPORTS

PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

We have enjoyed an excellent trade in stallions and mares during the past few weeks and we believe the main reason is because we have had a class of horses that met with the approval of good horse judges. The accompanying illustration is a good likeness of one of the stallions we have for sale and will give you an idea of the high character of stallions we import and breed. Our winnings at the Iowa State Fair, 1912, where we made our first exhibit, were given in a quarter-page advertisement in the January 16th issue of The Homestead. Our last importation of stallions and mares arrived in November and these are now in nice condition and we willbe glad to show them to prospective purchasers. Our horses have the bone, size and draft qualities that all the horsemen like. They are a clean-limbed, sound, good-acting lot of horses and we can please anyone in need of a high-class stallion or mare. I treat my customers right, which is shown by the fact that I have sold men their third and fourth stallions. I will make prices that will save you money if you will give me a chance. Visit or write me, mentioning The Homestead.

GEORGE EGGERT - - - NEWTON, IOWA

DUROC JERSEY SWINE.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion Intetnational Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
E. S. MAYES, JR., SPRINGFIELD, KENTUCKY

J. W. STORM BUYS THE GRAND CHAMPION DUROC BOAR, VOLUNTEER, AT $1,500

HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead, **J. W. STORM, SEVILLE, OHIO**

CHERRY LAWN DUROC JERSEY BRED SOWS

WILL sell between 15 and 20 choicely bred sows and gilts, carrying some of the best breeding and showing up with any individually. Sows by Crimson Chief, King of Cols. Again, View Chief by Frankfort K. and Commodore Boy. Gilts by Soo King and sows bred to Soo King, gilts to King of Kings, the top boar of Maderow's fall sale. These sows are strictly first-class. Address
ROBT. PRITCHARD, - - - - CARROLL, NEB.

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mound's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

Cramer's Grand View Durocs

WE have several choice gilts bred for early farrow that are bred right and must make good. Pricee right. Also a number of fall pigs, August and September farrow, either sex, not akin, at $15.00 and $20.00 each. Remember the big type always. Address **M. C. CRAMER & SON, Monroe, Iowa**

BURTON'S DUROC SOWS AND GILTS

15 HEAD of tried sows, fall and spring gilts. Bred to Cloverdale Chief, a grandson of Model Chief; Lincoln Model 2d, second-prize 6 months pig, Sioux City, 1912. Bred for March and April farrow.
U. G. BURTON, STORM LAKE, IOWA

FALL PIGS AND BRED SOWS Will be offered for next few weeks at from $10 to $40. White Rock cockerels and W. Holland toms. Address **EARL ROBERTS, Ulysses, Neb.**

20 GILTS and SOWS bred for March and April farrow. Good length and bone. Moderate prices to move them soon. S. J. Butts, Mason City, Iowa.

AVERYDALE BOARS and bred sows. Also Silver King corn. A. M. Avery, Mason City, Iowa.

MENAUGH BROS.

GARDNER, ILLINOIS,

DUROCS, POLLED DURHAMS

SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write
MENAUGH BROS., Gardner, Ill.

Duroc Jersey Bred Sows

STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic.
C. H. PEWSEY, Sioux Rapids, Iowa.

HORSES.

PAUL'S PERCHERON PLACE

IMPORTED AND HOMEBRED

STALLIONS, MARES, FILLIES

Barns adjoining city limits, on C. R. I. & P., C. M. & St. Paul and C. B. & Q. Railroads. Address
WASHINGTON, IOWA.

WHAT KIND OF COLTS

WILL your mares drop this spring; pure breds worth $175 to $275 at weaning time, or grades for which you will be lucky to get $100 at same age? Starting right doesn't cost so much as you imagine, it costs no more to rear pure breds than "scrubs."

Purchase Percherons

Free Bulletin C on request. Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

FOR SALE

HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.
E. P. HAMILTON & SONS,
Garden Grove, Decatur county, Iowa, R. F. D. 2, 23 miles southwest of Chariton,

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, Ia.**

PERCHERONS FOR SALE Stallion and mares. A Short-horn bull 5 months old. W.H.Miller & Sons, Independence,Ia.

FOR SALE—Three French Draft stallions. 1 black, weighs 2,100 lbs.; 2 3-year-olds, brown and black, weigh 1,800 lbs. Jacob Layland, Box 444, Audubon, Ia

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.
P. J. EGGERS - Denison, Iowa.

SPECIAL OFFER THIS WEEK.

IN ORDER to move the few horses that I have on hand am naming special prices for quick sales. One splendid gray and three blacks, Would trade one for mares. Can please those looking for a good horse and save them some money. Percherons and Short-horns our specialty. **F. A. Egger, Crystal Lake Stock Farm, Sprague, Nebraska.**

PERCHERON STALLION

FOR SALE. Seven-year-old black, registered, good breeder, sound, state certificate. Actual weight 1,700 lbs. E. H. Hawbaker, Stratford, Iowa.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

HOMEWOOD STOCK FARM PERCHERON, BELGIAN, SHIRE STALLIONS AND MARES

Now is the time to buy a good stallion or mare. We have the kind you have been looking for. Our horses arrived home in October, are now perfectly acclimated and in the best of condition to do you a lot of good. The Percherons are two and three years old with size, bone and draft horse qualities, many of them weighing over a ton and not fat.

Our mares are of the best brood type. All are in foal and plenty of ton mares to select from. Every animal guaranteed sound and a satisfactory breeder. Others say we have the best bunch of two-year-old Percherons they ever saw. You will say the same. Come and see us or write for full particulars. You will find horses right, terms right and prices below others of equal merit. We have also a lot of big, heavy-boned American-bred stallions at surprisingly low prices. Don't buy until you have seen our stock. Homewood is on the main line of the Big Four and I. C. R. R., twenty-three miles south of Chicago. Trains hourly to and from the city.
S. METZ & SONS, HOMEWOOD, ILLINOIS.

J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

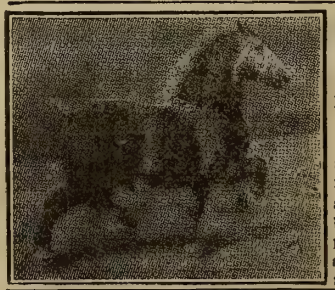
This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION
We have all ages. Write for catalog, prices and terms.

J. LEITCH & SONS, LA FAYETTE, ILLINOIS
Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

Merry King 13229
Imp. & owned by John Leitch, Prop. Avondale Stud Farm La Fayette, Illinois.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.



W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers [of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars.

Percheron Stallions

ONE coming three, two coming two-year-old stallions, sired by 2,200-lb. stallion, out of daughters of Georgiana, one of the greatest mares of the breed, won the blue at the Iowa State Fair, producing 18 living colts without a break, three of them state fair winners. They are a wonderful family of show horses, and sure breeders. These young stallions will all make better than ton horses. We are pricing them to sell. Address, mentioning Homestead, **WOODLAWN FARM, Sterling, Illinois.**

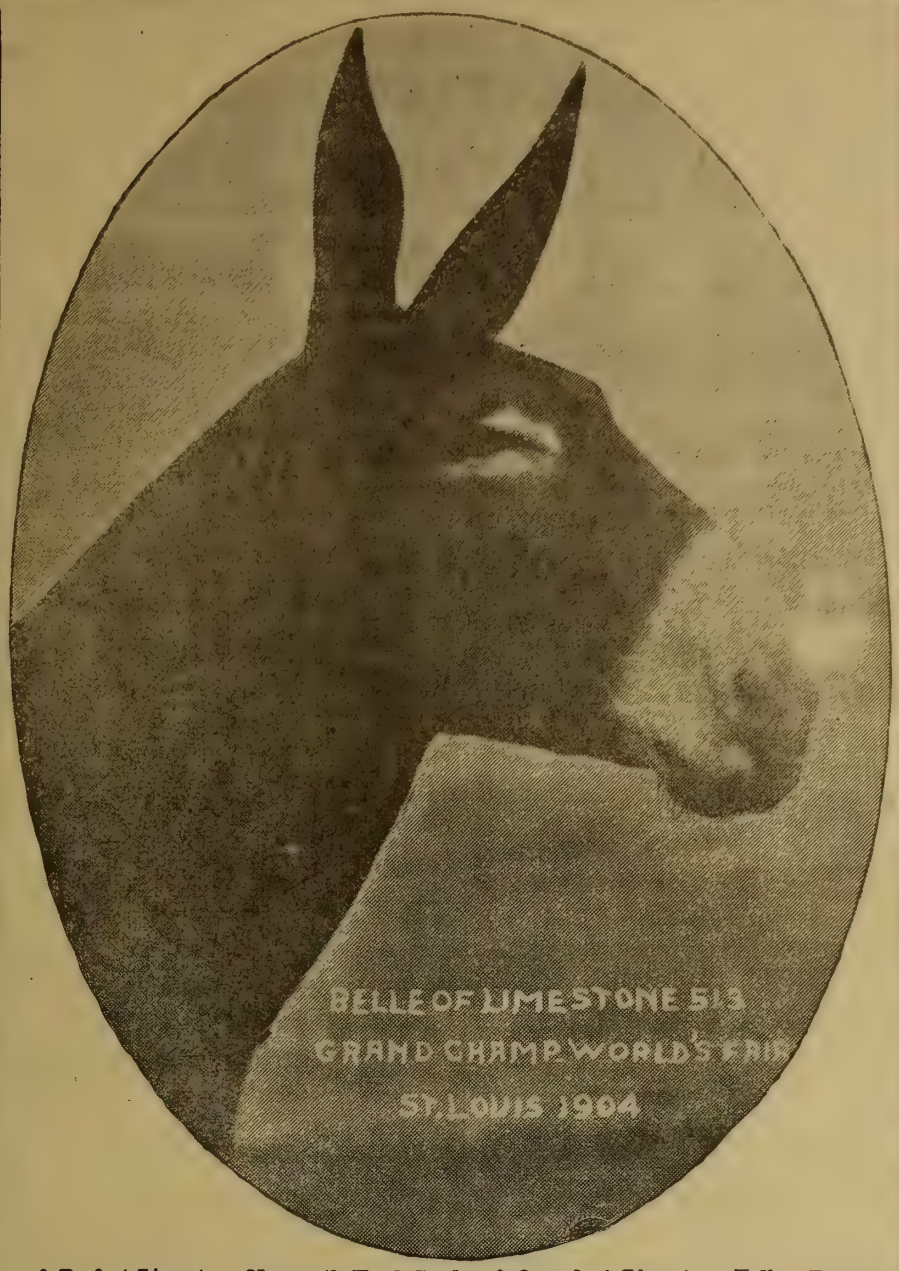
FOR SALE—Duroc gilts bred. Shetland stallion, Ruby's Trinket 10579, black and white, 3 yrs, old, half value. Fred Hanks, R. 3, Box 55, Winnebago, Minn

JACKS AT PRIVATE SALE

IF you want the **BIG** kind come to one of the oldest breeding barns in the state where you will find the big, heavy-boned, black fellows that will do your country good and at reasonable prices. Mention The Homestead and address
G. M. SCOTT, - Rea, Missouri.

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

L. M. Monsees & Sons' 35th Auction Sale at Limestone Valley Farm, Smithton, Mo., Tuesday, March 4, 1913



A Perfect Limestone Mammoth Head, Bred and Owned at Limestone Valley Farm.

35 Head of Jacks

24 Head of Jennets

All Blacks with White Markings

4 to 6 Years Old

15 to 16 Hands High

Standard Measure

WE guarantee this the best offering of the year from any firm, breeder or company. There will be as much bone and quality as possible to be found in this number of jacks. All registered and guaranteed as represented. If interested please write for illustrated catalog with pictures of practically the entire offering. Address, mentioning The Homestead.

L. M. MONSEES & SONS,

SMITHTON - - - MISSOURI

AUCTIONEERS

HARRIMAN

SPARKS

SYNDER

HIERONYMUS BROS.

WELLS

LOGSDEN

RINGEN

A Group of Yearling Jacks All in the Sale

HORSES AND JACKS.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 5th 1912 importation arrived Oct. 29th. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

GALBRAITH'S CLYDESDALES

are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action. size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, DE KALB, ILLINOIS

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion

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WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of **PERCHERON** stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

FAIRVIEW STOCK FARM

PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK, - - LITCHFIELD, NEB.

PARAMOUNT STOCK FARM

BREEDS AND IMPORTS

PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to **Hudson, Iowa,** and see **Crownover's** new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

WILLIAM CROWNOVER - - HUDSON, IOWA

Trotter's Jack and Jennet Sale

MT. AYR, IA., FEB. 27, 1913

15 Jacks from 2 to 6 years old, the best ever sold in Iowa; **15 Jennets,** all bred to **Keno** and **Jumbo.** An extra choice offering with lots of bone and quality. Send at once for catalog. Address

W. T. TROTTER, - Mt. Ayr, Iowa

LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10

SELL or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

W. J. FINLEY, - HIGGINSVILLE, MO

IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

JACKS AND JENNETS

ne of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. Reference: The banks of Lawrence, 40 miles west of Kansas City. Address Al. E. Smith, Lawrence, Kansas

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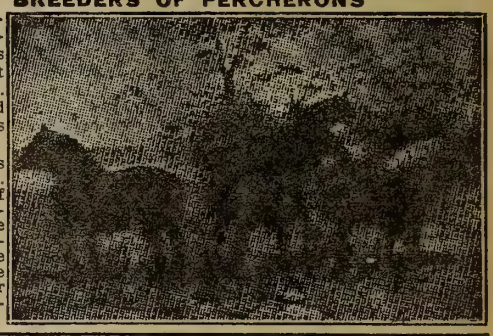
MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS



Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

NORTH & ROBINSON CO.,

IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE

STALLIONS AND MARES.

50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of Imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

NORTH & ROBINSON CO., Grand Island, Nebraska

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

Holbert Horse Importing Company

The World's Greatest Importing Establishment

Percherons, Belgians, Shires, German and French Coachers, Hackneys

Big, ton black and gray Percherons our specialty—Blacks, black-grays, steel-grays and dapple-grays.

Royal Belgians—We import more Belgian stallions than any other firm in the U. S. Bays, browns, roans, chestnuts and blacks.

Shires—The best that old England produces.

We have at any time of the year more big, ton, high-class Percheron and Belgian stallions than any other firm in the U. S.

If your neighbor is thinking of buying a stallion send us his name and address and we will mail you FREE a beautiful lithograph of our premises, suitable for framing, showing 200 head of stallions.

A. B. HOLBERT, Proprietor and Manager, **GREELEY, IOWA**

VAN STEENBERGE'S

DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,
OGDEN, IOWA

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

-B-E-S-T-

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

PERCHERON and BELGIAN STALLIONS and MARES

IMPORTED and Home Bred. High-class horses on hand.

CALL AND SEE US.

E. H. Knickerbocker & Son
Fairfax, Iowa.

SHIRES

SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

ED. H. MAGOWAN & SONS, Gibbon, Neb.

Hart Bros.

Osceola, Iowa

Our 1912 importation now in our stables. A high-class lot of imported Percheron, Belgian and Shire stallions and mares. Come and see them.

FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

STALLIONS

Home-bred draft stallions, $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds.

A. LATIMER WILSON, Creston, Ia.

OUR ENTIRE HERD OF 40 SHETLAND ponies for sale at closing-out prices. Address Spivey, Robb & Co., University Place, Neb.

FOR SALE Ten head of Percheron stallions, mares and colts. Address Ashbaugh Bros., Maynard, Iowa.

PERCHERON STALLION in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C. W. Chandler, R. 4, Kellerton, Ia.

TAYLOR & JONES

INTENDING BUYERS OF STALLIONS, EITHER

Percherons, Belgians or Shires

should not overlook the fact that We Won, at the Illinois State Fair 1912, GRAND CHAMPION Shire Stallion, GRAND CHAMPION BELGIAN Stallion, Grand Champion Herd of Best Five Percheron Stallions, Grand Champion Herd of Best Five Belgian Stallions, FIRST PRIZE aged Belgian Stallion, FIRST PRIZE three-year-old Belgian Stallion, FIRST PRIZE two-year-old Belgian Stallion, FIRST PRIZE three-year-old Percheron Stallion and Second and Fourth Prize aged Percheron Stallions. Our **Stallions defeated those of all other importers for every Championship in all the draft breeds.** These stallions are all for sale, with many other winners, at prices below what common horses can be bought for at many other importing barns. We also have for sale a nice line of extra good imported and American-bred mares. Send for our booklet containing prices and guarantee.

TAYLOR & JONES, Box 68, Williamsville, Sangamon County, Illinois.

THE Imported Shire Stallion, Severn Flag 12749 (28763), GRAND CHAMPION at Illinois State Fair, 1912, also winner of First Prize and Reserve Champion at the International, 1912.

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FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP, BOLIA, PIKE COUNTY, MISSOURI

PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA

Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.
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Percherons

I AM offering some splendid yearling and 2-year-old stallions for sale at popular prices. Address

MONROE AYERS - Shenandoah, Iowa.

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10 Prize Winning Belgians

IMPORTED and home-bred stallions and mares, ranging in age from yearlings to matured horses. Some splendid mares and studs for sale. For particulars address

ED BOLL, JR., - SCRIBNER, NEB.

IMPORTER AND BREEDER OF PERCHERONS AND BELGIANS

CUSTOMERS get their money's worth on stallions and mares. Every animal just as represented. Can't be under sold by any firm, considering quality. All young, from yearlings to five year olds. Farms one mile from town. We meet trains.

C. G. GOOD - OGDEN, IOWA

SHIRE AND PERCHERON STALLIONS AND MARES

IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

PERCHERON STALLIONS

FOR SALE. One imported 6 year old, one home-bred 4 year old. Extra good ones. Good breeders.

SMITH & BAUMERT.

Postoffice, R. 1, South English. Keokuk county, Ia. Stations—South English and Harper, Iowa.

IMPORTED PERCHERON AND BELGIAN STALLIONS AND MARES

Also Home-Bred Stallions

I think it is better to have extra good stallions to show when customers come to see, than it is to claim you have them and cannot show. If interested, write or come and see me.

Bell Phone 237 or Union Hotel. On C. B. & Q and Santa Fe Railroads.

J. R. JUSTICE, at Union Hotel, GALESBURG ILL.

IMPORTED BELGIANS

I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.

R. F. FRENCH, INDEPENDENCE, IA

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $850; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

WM. GRAFF

Imported Belgian, Shire and Percheron Stallions for sale at all times. Write me, address

MINIER, - - - ILLINOIS

Stooker's Stock Farm

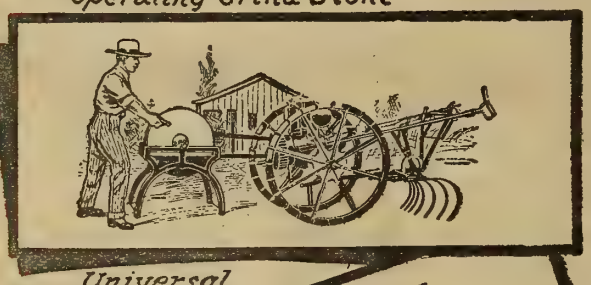
OFFERING just now some very choice Percherons. A pair young stallions and a few mares Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska.

This wonderful invention will revolutionize farm life

IT marks the beginning of a new era. Reduces farming to a scientific basis, increases the efficiency of your labor, swells your profits, saves time, saves trouble, saves money. Keeps the boys at home and makes the farm modern and automatic.

Universal Tractor operating Grind Stone



Universal Tractor operating Washer

Universal Tractor operating Cream Separator

HERE IT IS AT LAST,—the device you have been wanting for so many years! A machine that goes wherever it is wanted under its own power and that does the work of a stationary engine in addition to the work of a horse. The device that harrows your ground, drills, plants, weeds and *cultivates* your fields, saws your wood, pumps water, grinds your grain, chops your feed, runs your churns and separators, your washing machine and your electric generator; a machine that does in one hour the work that now requires half a day and does it better, easier and more economically, that costs little to operate and that costs nothing when not actually working,—that makes money for you while your horse is eating his head off in the barn. The

Universal Tractor

annihilates farm drudgery as the automobile has annihilated distances. It is the touring car of progressive farming. It multiplies the efficiency of farm labor as modern machinery has multiplied the efficiency of factory labor. It enables one man to do the work heretofore done by two. The only limit to its capacity is the capacity of the operators. With three shifts of drivers the Universal Tractor can work in the fields for twenty-four hours straightaway. Its total operative cost is trifling in comparison with the cost of the feed consumed by a horse.

The Universal Tractor is obedient to the touch of the thumb. It runs with uniform and unvarying speed according to *your* will and not at the caprice of your horse. One, two, three or four miles per hour exactly as you wish, the Universal Tractor maintains a perfectly uniform and unvarying rate of speed no matter how rough or uneven may be your fields.

If you want to cultivate close up to the rows of growing plants you can regulate the position of your shovels accordingly. If you want to straddle the rows you can do so without danger of injury to the plants such as is almost certain to occur when you do your cultivating by horse.

The Universal Tractor will do any work that a horse can do in cultivating your fields and do it much better, quicker, cheaper and easier. It will also operate any machinery that you can operate with any three to five horse power engine, and it requires no special skill to operate. It is so simple that a child can start it, regulate its speed or stop it without assistance and without danger. It is built as strong as a young locomotive and as accurately as a watch. It can not freeze up in the coldest winter weather. It requires little attention and it is so perfectly adjusted that it is not liable to get out of order. All parts are standardized and interchangeable and can be removed or replaced without the assistance of a mechanic.

Think what this will mean to you. Think of the time you will save, of the trouble and delays you will avoid. Here is a cultivator that runs itself, one that works without tiring, one that never needs to stop for water or feed like Old Dobbin, that maintains a uniform rate of speed, that you can guide to the accuracy of a hair's breadth, that has power to spare and that is always ready for work. Here is a harrow that works automatically,—a drill and seeder that does not depend upon any horse,—a weeder that will go through twelve acres of ground in less time than you now require to go through six acres with your horse-drawn weeder.

Here, in the same machine, is an automatic churning device, a motor for your separators, a power plant that will operate all your small machinery, one that will go to the place where the work is to be done instead of making you bring the work to it. And all this for a price that compares favorably with that of a high grade stationary engine capable of doing only the simplest kinds of work, and this only when the work is brought to the engine.

The Universal Tractor opens up to you, Mr. Farmer, an outlook of unlimited opportunity. No more delay cultivating your growing crops with a horse drawn cultivator. No tramping on the young plants, nibbling at the tops of the tender sprouts, no more lurching and plunging of the old horse as he starts up after pausing to shake off a horse fly. No more back breaking labor over the chopping box or the feed mill, no straining at the cider mill; no more hard drudgery for your wife at the separators and churns and washing machines.

With the Universal Tractor you will enter upon a better, easier, pleasanter mode of living because all your hard work will be made easy, your labor will return you a larger profit, and your sons and daughters will not want to leave the farm because farm life will be more pleasant and more profitable than city life can ever be.

This story of The Universal Tractor is too long to be told in a single advertisement. It is fascinating. It reads like a romance. Write today for the book "Farming by Motor." It is free. It tells you everything. Fill out the coupon and send it to us by return mail.

THE UNIVERSAL TRACTOR COMPANY

20 KAY STREET, NEWCASTLE, IND.

Universal Tractor Co.
20 Kay St.
Newcastle, Indiana

Please send without cost to me the book, "Farming by Motor."

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COUNTY..... STATE.....

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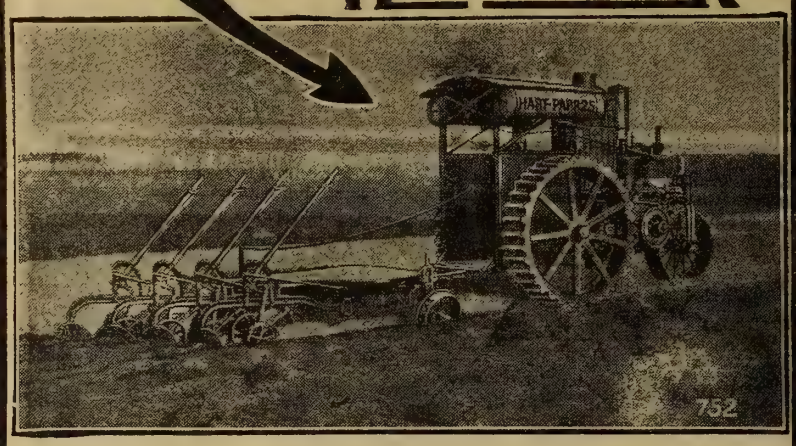
The Iowa Homestead

VOL. LVIII. NO. 9 DES MOINES, IOWA, FEBRUARY 27, 1913. WHOLE NO. 2890

25 Brake Horse Power Outfit

Here's a Small Tractor just like the one you've often wished you could find. It's a

HART-PARR
-OIL TRACTOR-



This addition to the long established and old reliable Hart-Parr line, is our answer to the constantly increasing demand for a medium power tractor. A tractor built especially for farms as small as 160 acres.

Many inexperienced builders have rushed pell-mell into the field with untried, untested small size tractors. Even with our many years of tractor building experience, we were not satisfied to do this. First, we gave long, careful thought to the power problems of the small farm. We studied the requirements from every angle. Then we designed and built this 25 B. H. P. tractor especially to meet these conditions. Next, we gave this tractor a thoro, searching shop and field test. Step by step, we modified and strengthened it. No guess work at any stage.

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The same general features of construction which have made our 30, 40 and 60 B. H. P. outfits so successful, are embodied in this new Hart-Parr model. It is built almost entirely of steel, thus insuring greatest strength with *light weight*. The drive wheels are equipt with our wonderful wave form lugs, making the tractor well fitted for work on soft soil.

In combination with the Hart-Parr-Sattley **Self-Lift Plow**, shown in the illustration, it forms a strictly *One-Man Outfit*. It will easily take the place of 10 sturdy horses and do the work better, quicker and cheaper. It has two working speeds—1.8 and 2.6 miles per hour. It uses ***cheapest kerosene*** for fuel at all loads, and is oil cooled.

Write today for illustrated circular fully decribing the important features of this new Hart-Parr Oil Tractor.

69

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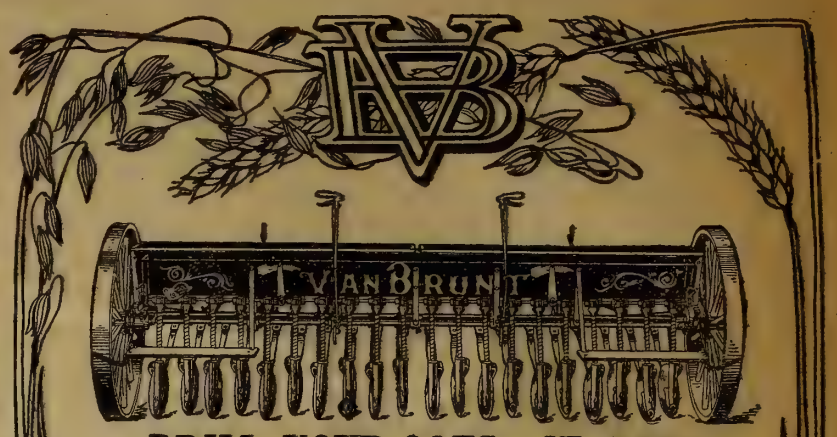

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Iowa Station found a gain of over 9 bushels per acre.

Get this extra crop by using Single Disc Van Brunt Drill—the drill that will not choke in sticky, trashy ground. Guaranteed to make a good seed bed in any ground that can be seeded.

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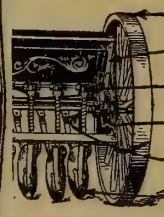

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- **Bearings extend under frame**
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Our guarantee is fair and honest. If the engine does not suit you, you don't keep it. Write today stating power required. We will send catalog and name of Lauson Dealer.

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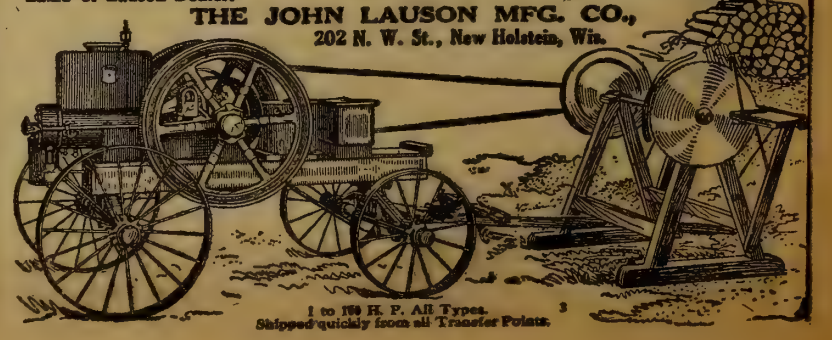

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Shipped quickly from all Transfer Points.

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY FEBRUARY 27, 1913.

A MODEL LIVE STOCK FARM

How the Noted Breeder of Percherons and Berkshires, Mr. W. S. Corsa, has Built up the Gregory Farm Until it Stands Today as an Object Lesson to All the Grain Belt.—*By George H. Dacy.*

ANYONE at all familiar with Percherons or Berkshires has heard of Mr. W. S. Corsa and his famous Gregory Farm. Hogs of the Masterpiece strain and horses that have been sired by the great Carnot predominate on this farm. Gregory Farm is deservedly famous, not only as a fine breeding farm, but also as a practical and profitable, everyday project. Any person with sufficient capital and time can develop good families of live stock where foundation of desirable type and quality is used. However, everyone cannot make a success of general farming as a side line to the breeding operations. Too many of our leading breeding farms are badly mismanaged when it comes down to profitable crop production and the home raising of the majority of the grain and roughage that is fed. In these respects Gregory Farm stands out as a model. A permanent system of agriculture is practiced; grains and hays are profitably raised and fed to the stock; economical substitution is practiced in compounding the various rations that are used on the place; the fertility of the soil is constantly on the upgrade; the time of the laborers is efficiently utilized to the best advantage; intensive business management is pursued in all the farming operations and the entire proposition is handled according to up-to-the-minute direction The farm includes 1,280 acres of fertile, rolling prairie soil. On the farm is raised all the feed, except rather small quantities of bran, middlings, oil meal and cottonseed meal that are purchased and bring added fertility to the soil. The barns and feeding yards are provided with concrete floors, so that all the manure produced on the place is conserved in good condition and returned to the fields in the best of shape for toning up the productivity of the soil.

TWO HUNDRED AND FIFTY PURE-BRED BERKSHIRES COMPOSE THE CORSA HERD; THE SWINE ARE RAISED UNDER NATURAL CONDITIONS.

A bumper manure pile annually accumulates from the live stock colony at Gregory Farm. One hundred pure-bred Jerseys, 100 pure-bred Percherons, 250 registered Berkshires and seventy-five pure-bred Shropshire sheep are maintained on the farm, and in the course of a year these animals yield a bumper supply of fertilizer. Enough manure is yearly produced to fertilize 200 acres of the farm with ten to fifteen tons of fertilizer per acre, so that every six years all the land is thoroughly manured. About 100 pounds of raw rock phosphate per acre has also been profitably used with the well-rotted manure. The nitrogen side of the fertility question is amply provided for in that each year about eighty acres of alfalfa and 160 acres of clover are cropped on the farm.

Where any indication of sourness or acidity of the soil is apparent two-ton applications of ground limestone per acre have advantageously corrected this trouble. In the main the stands of alfalfa at Gregory Farm are secured without inoculation. The major part of the land is in fine condition to develop a vigorous stand of the leguminous forage crop-de-luxe without any need for using bacteria-laden soil from an old alfalfa or clover field in order to inoculate the new fields. Formerly the alfalfa crop was always sown without a nurse crop, but of late good results have obtained where bearded barley was seeded in conjunction with the legume. The applications of lime invariably seem to exert a beneficial effect on the black soil of these rolling prairies. Three to four cuttings and from four to five tons of fine quality hay per acre are secured each year from the alfalfa fields. In addition to playing square with Mother Earth from a fertility standpoint Mr. Corsa practices an efficient rotation of crops which features the pursuit of intensive tillage and the use of the best quality pedigree seed of the high-producing strains. Corn, clover, alfalfa and the small grains are grown, while about 350 acres are annually devoted to blue-grass, clover and mixed pasture. As an indication of the remarkable fertility of the black loam soil and as a testimonial to the efficient method of fertilization that is followed the crop yields are of particular interest. Three hundred acres of corn annually average in the neighborhood of seventy-five bushels to the acre. Recently one sixty-acre field produced 100 bushels of excellent quality corn per acre. Fertility maintenance and pure-bred seed undoubtedly effect an increase of 30 or 40 per cent in the acreage

(Continued on page 40)

CARNOT, THE $10,000 PERCHERON STALLION AT GREGORY FARM, WAS GRAND CHAMPION OF ENGLAND, FRANCE AND AMERICA IN 1910—A BUNCH OF HIS COLTS SHOWN ON THE RIGHT.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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INCREASED YIELD FROM TESTED CORN.

Some interesting data is given in a bulletin recently prepared by Prof. H. D. Hughes, of the Iowa Experiment Station, relating to the matter of testing seed corn. Something like 45,000 ear-test readings were made by Professor Hughes during 1910 and 1911 and the bulletin referred to gives in detail the results of this extensive experimentation.

It was clearly demonstrated that the work of testing the seed corn was in every case very profitable, the actual planting results showing that no other farm practice will give so great returns in dollars and cents as will be returned from the labor involved in testing seed corn. In 1910 the untested corn gave a stand of 50.5 per cent and a yield of 55.5 bushels per acre while good, sound tested corn gave a stand of 72.3 per cent and a yield of 75.1 bushels per acre. Here was a gain of 19.6 bushels in favor of the tested seed. The actual cost per acre of testing the seed was thirty-five cents. In 1911 the untested seed gave a stand of 52 per cent and a yield of 35.6 bushels per acre while the sound tested ears gave a stand of 73.9 per cent and a yield of 45.7 per acre.

The results obtained at the station correspond very closely with the field tests made on various demonstration farms throughout the state of Iowa. In Cerro Gordo county, for instance, samples from seventy-three farmers were planted. The five best yielded 61.1 bushels per acre while the five poorest yielded only 39.8 bushels per acre. This difference was almost entirely due to the difference in vitality as shown by the percentage of stand and germination test.

It is shown in these experiments that the increased yield is not always proportionate to the percentage of stand, but the results on the whole show that the best stand of corn gives the best yield per acre. For instance, during 1910 a stand of 54 per cent gave a yield of sixty-three bushels per acre; 65 per cent, seventy-one bushels; 74 per cent, seventy-eight bushels, and 84 per cent, eighty-three bushels per acre.

It is not uncommon to find instances where men are satisfied with half a stand of corn, their belief being that in the case of a dry year as large a yield will be produced as if a full stand were obtained. While it is possible that conditions might be found where this result would obtain, yet, as said before, the extensive experiments conducted by Professor Hughes indicate that on the average the most perfect stand gives the largest yield. This taken in conjunction with the fact that seed corn can be tested for about thirty-five cents per acre should lead every corn grower to the conclusion that he cannot afford to plant anything but tested seed.

IN DOLLARS AND SENSE.

In this enlightened day and age it is hardly necessary again to point out the advantages of good roads, not only from a dollar and cents standpoint, but from an educational and aesthetic standpoint as well. We cannot refrain, however, from calling attention to one or two pertinent facts which have been brought to light during the last week. The United States office of public roads has issued some figures to illustrate its declaration that land values increase immediately when roads are improved. A farmer in Lee county, Virginia, owned 100 acres, which he offered to sell for $1,800. The road through the land was improved in 1908 and the farmer opposed the improvement. Since its completion, however, he has refused $3,000 for the land. On the same road there is a tract of 3,000 acres, supposed to have been sold for $6,000. A dispute arose as to whether the sale had been consummated. The supposed purchaser refused to take the contract and the owner threatened to sue. After the road was improved the same tract was sold for $9,000 to the original purchaser, without any additions or improvements on the land for which he previously had declined to pay $6,000.

From the other standpoint the set of resolutions adopted by a good roads convention in Illinois is of interest:

> Improved roads mean better schools and larger attendance, better health and quicker medical attention, better farms and more cultivated land, better crops and cheaper transportation, better economic conditions and less isolation, better church attendance and better citizens, better postal service and closer friends, better business and more consumers, better industries and more employment, a better state and a better nation.

The road question is a perennial one, but there is no denying that there is more interest and discussion this year than ever before, thanks largely to the agitation in the legislatures of most of the grain-belt states for remedial action which will give the people the relief for which they have long been waiting.

CROPS FOR SOD LAND.

An Iowa subscriber, Mr. Ira Lancaster, asks for information concerning the best crop to sow on sod ground that was plowed last September. The sward in this case was prairie grass mixed with a little tame grass. His desire is to use a crop that will rot the ground quickly so that the grass will be destroyed and the soil brought into ideal shape for future tillage.

Not knowing the extent to which this soil decomposed during the fall months it is difficult to give unconditional advice. When growth starts in the spring if the grass appears to well killed cut corn ought to do fairly well and possibly it will be the most profitable crop that can be used. It should be planted very late, however, because in ground like this cut worms are apt to do considerable damage.

Possibly the most ideal crop to be grown under conditions of this character is flax. One crop of flax is almost as good as a summer fallow as a means of fitting the soil for future crops and it may be seeded during the interim between corn planting and corn cultivation. It should be sown at the rate of two or three pecks per acre.

If only a small area is involved ground of this character can often be used to a great advantage in growing millet or sorghum. In this case the land may be plowed lightly in May or early in June and either of these crops sown with every expectation of accomplishing two things, namely, rotting thoroughly the sod and secondly, obtaining a very large yield of good hay or fodder. In the case of millet we would advise using about three pecks of seed per acre whereas if cane is grown sixty or eighty pounds of seed per acre should be sown.

WHERE THE PASTURE AREA IS SHORT.

In certain parts of the corn belt poor results have followed the attempt to obtain a stand of grass for three years in succession. A subscriber from Fremont county, Iowa, says that he seeded a large acreage of timothy and clover in 1910, 1911 and 1912 and as a result not a spear of either clover or timothy is alive today. As the outcome of this he is short of pasture and asks for information relating to the matter of obtaining a quick pasture for the coming season.

As clover and timothy are both slow growers they cannot be depended upon to furnish good grazing until the fall of the same year that they are seeded. This being the case we are obliged to fall back on the cereals for pasture during the fore part of the season. A mixture of oats and barley or oats, wheat and barley seeded thickly will furnish a great deal of good feed for a considerable period of time. If in addition to the mixture of small grain four quarts of timothy and four quarts of clover seed are used per acre there is a reasonable possibility that the latter will make sufficient growth so that by the first of September they will furnish considerable feed. It must be remembered that the small grain will mature just as if it were not pastured, though pasturing will somewhat delay the date of maturity. By sowing late varieties the small grain may furnish fairly good grazing well on into August or probably up to the first of September.

We have had good success in sowing fall rye in the spring. It is a hardy crop and may be seeded just as soon as the ground is in condition to work without puddling, and fall rye will remain green a little longer than will the spring cereals. Five or six pecks per acre will answer every purpose and if the seed can be obtained at anything like a reasonable price there need be no hesitation about using it because this plan has been well tried out.

HEALTH TO THE YOUNG PIGS.

A Kansas subscriber calls attention to a few factors that should be kept in mind by those who expect to raise a large percentage of strong pigs per sow this spring. Among other things he says:

> Advancing hog prices have put everyone in a different frame of mind concerning the spring hog crop, and no doubt everyone will make the greatest possible effort to save all pigs that farrow and to take good care of them. In other words, there is a feeling that "pigs is pigs," and more than the usual effort will likely be made to save all possible.
>
> Aside from weather effect, the greatest loss of young pigs comes about through a sow smothering or laying on her pigs before they are large and strong enough to work their way out of such difficulties. As sows grow old they are apt to become more and more indifferent to the outcry of their young and to pay no attention when a pig is squealing for dear life. The better way is to safeguard against this loss by putting a rail all around the pen, high enough from the floor so as to enable the litter to lie beneath, and strong enough to guard the sow away from the sides of the pen. More pigs are crushed to death between the sides of the pen and the body of the sow than in any other way, and these railings or guards will largely prevent such loss.
>
> Another way of helping along the litter average is by feeding the sow right for some time before farrowing. A sow fed on corn, with water for drink, is liable to have trouble at farrowing time, especially if she is a gilt. A little shorts slop, given once a day, puts the sow in fine condition for farrowing, and will greatly diminish the number of dead pigs found in the nest, or that must even be taken from the sow. Many gilts that live on a ration of corn and water die at farrowing time. Fat at farrowing time is very much against a gilt, and is wholly against the saving of a good-sized litter of thrifty pigs, and it sometimes works very much against the saving of the sow.

Too much emphasis cannot be placed on the importance of using something in conjunction with corn for the brood sow. Where shorts are not used excellent results will be obtained from feeding one pound of oilmeal or tankage to eight or ten pounds of corn. The addition of either one of these protein-carrying bodies for a few weeks previous to farrowing time make the difference between weak and strong litters. We could cite instances where year after year men have been raising an average of three or four pigs per sow as the result of straight corn feeding. On the other hand, our most successful breeders average six or seven pigs per sow and one instance has been called to our attention where for a series of years one breeder raised and fitted for market an average of eight pigs per litter. While a number of important factors enter into the proposition yet the main one involves the feeding of a balanced ration. While of almost equal importance is the question of compulsory exercise. There should not be a single day's delay after the advice is read in turning the sows away from their sleeping quarters in the daytime and this should be kept up every day unless during periods of severe storms.

MUST RAISE OUR OWN MEAT SUPPLY.

Never in the history of our country, according to Abraham Renick, general manager of the American Short-horn Breeders' Association, did the future hold out such prospects as at present for those engaged in the production of prime beef.

In support of his claims he has lately pointed out that Canada, with a very short grazing season, extreme winters and the lack of corn, can never furnish us or interfere with our home market. Mexico, practically a barren waste from a revolution that has destroyed her cattle industry and is still in progress, is not holding out any hope for relief. Argentina can find a more profitable market for her surplus meat in European markets, and if this nation is to have more beef it must be bred and matured in the great corn and grain-belt states.

As well as an opportunity there is, Mr. Renick believes, a necessity for farmers to turn more and more to stock raising. Under present conditions the overhead expenses of operating a farm, the scarcity and high price of farm labor make it necessary, he declares, that our farms yield a greater gross income. To accomplish this result it is necessary to both practice economy and introduce better methods in farming.

The average man who lives on and operates a farm should not, in the opinion of this experienced stockman, be designated as a farmer, but rather as a land pirate or soil miner; as a land pirate he is transitory, he is there for the purpose of getting what he can from the soil without regard to the future and the natural consequence of his acts. When the farm fails to yield a revenue he sells and moves to another. The miner plows and tills the crops that he can sell to the greatest advantage off the farm, never thinking or caring for the future or the advantages of rotating, the growing of clover and turning the crop back to the hungry soil or the feeding of all crops back on the farm which produced them. The only way to do this is breed and feed live stock. Statistical information does not make the impression usually that it should, and we often fail to appreciate the full meaning and importance of a few figures when they are merely to express a per cent of increase or decrease of a certain product. This, he believes, is true regarding the statistics that are now being so freely used in expressing the great shortage in beef cattle. When it is said that our population has increased 26 per cent in the last ten years and that we only have four-fifths as many cattle as we had ten years ago, or a loss of 20 per cent, the real significance of these figures is not appreciated. With an estimated immigration of 1,400,000 people to our shores in 1913, and estimating our natural increase 600,000 more, what provisions are the farmers making to feed this additional 2,000,000 people?

AN EXCEPTIONAL OFFER.

An opportunity such as given by our exceptional Red Letter Subscription Offer is not frequently encountered. Here are five of the best, most interesting and most practical periodicals published, of value to each and every member of the farm household, obtainable at almost one-half the regular subscription price. By remitting $1.25 to The Iowa Homestead, Des Moines, Iowa, we will see that you receive a full years' subscription to each of these five papers: The Iowa Homestead, Kimball's Dairy Farmer, Woman's World, Kansas City Weekly Star and People's Popular Monthly. This is the time of year when the largest and best numbers of each of these five papers are being issued and we urge upon all who intend availing themselves of this opportunity to remit at once, in order that they may secure these large numbers and have a full year's uninterrupted service.

JOINT OWNERSHIP OF FARM IMPLEMENTS.

An Indiana subscriber, W. F. Purduo, outlines a plan by which men who are unable to bear the expense of owning implements outright might solve their problem by entering into a partnership with neighbors who are similarly situated. On this subject Mr. Purdue says:

It is to the small farmer that the plan of joint ownership of some of the farm implements appeals especially, offering as it does a method of lessening the expense annually imposed by having to buy new tools. With the improved methods of farming that now prevail, all the tools required to run even a small farm represent a large investment of money. It is on the small farmer that the greatest expense, proportionally, for machinery falls. The man with 160 acres needs but few more implements to carry on his farming operations than does his neighbor who has perhaps only eighty acres. The former probably has an extra plow and cultivator, but otherwise he can get along all right with the tools needed to run the eighty-acre place.

But to insure always getting his crops in on time and caring for them properly at the right time, the small farmer must have a complete set of farming tools, even though he himself does not use some of the tools more than two or three days in the year. The rest of the year they are either taking up barn room or, if left outdoors, are depreciating in value as rapidly as are the same tools of a neighbor who uses them several times as much.

Therefore, why not go into partnership with a neighbor who has about the same sized farm, and thus has about an equal amount of use for an implement, and make one implement serve two owners. Each can save some storage room thereby as well as money. Two farmers situated side by side seldom want to plant their corn or harvest their grain at the same time and it is the same with other work for which implements are used. By planning together, each can generally so arrange his work as not to interfere with the other. Not only the corn planter and binder, but the mower, rake, hay loader, fanning mill, grain drill, manure spreader and butchering tools may be owned jointly between two farmers.

Always, however, in order that partnerships of this nature may not prove unsatisfactory to one of the parties or lead to any ill feeling between the men, care must be used to choose the right kind of partner, and then we must resolve that we will try to be the right kind of partner for the other fellow. Each joint owner of an implement should endeavor to take the best possible care of any tool while it is in his possession and, as even two good machinists are generally unequally hard on the same machine, there should be an agreement as to whether repairs are to be paid for jointly or by the partner responsible for the breakage. There should also be an understanding as to which one is to store the implement when it is not in use and also in regard to lending or renting it to other farmers of the neighborhood. Then all agreements made must be rigidly adhered to by both parties if pleasant relations are to be sustained. Under these conditions the plan of joint ownership has much to commend it.

There is no doubt but what this plan could be carried out much more extensively than is the case at present if men would adopt a given-and-take policy. It is true that every man would prefer to be independent in matters of this kind, but in the case of small farms it is quite possible to become what might be called implement poor. There is nothing visionary about the plan of joint ownership of implements because in most every neighborhood there can be found instances where it is carried out in an ideal way. We believe that in the interests of economy in production the plan could be much more widely adopted than it is at the present time.

BELIEVES IN LESS GRAIN AND MORE LIVE STOCK.

A Nebraska subscriber, A. F. Danielson, calls attention to the blunder that too many farmers are making in the effort to grow a large acreage of grain. He says that while we raised about 1,000,000,000 bushels of grain in 1912 than we did in 1911 yet the larger crop is worth about $24,000,000 less than the smaller one. According to Mr. Danielson the average yield of corn in Nebraska is twenty-seven bushels per acre, wheat sixteen and oats twenty-three bushels. These yields will not pay interest on the present value of land and therefore the farmer must change his policy. On this point he says:

We have followed grain raising too long, especially wheat. We need to change our method of farming very much. We should put half of our farms into meadows and produce more horses, beef, butter, cheese, hams and bacons, and in a very few years we will raise as much grain on half of our ground as we are doing now on all of it; besides our land will be getting richer and we will be making more money.

More and more men are coming to believe in diversified agriculture, which involves the raising of live stock to consume most of the grain and roughage produced. We are free to admit that the plan of marketing grain direct may in the beginning seem to carry with it a great degree of prosperity, but it must be remembered that year by year the crops are lessened, this taking place in many instances in the face of land rising in value. On the other hand, where live stock of some sort is utilized as a means of marketing grain and roughage the soil continually improves and even though only market prices for grain are realized in the sale of live stock the enrichment of the soil alone is sufficient to offset the extra labor involved. Admitting as we do that the violent fluctuation in live stock values has much to do with discouraging men who might otherwise be engaged in live stock raising, yet it cannot be denied that the most marked degree of prosperity taking the matter over a series of years will always be found on those farms which maintain a constant policy of live stock raising. To put it in another form it could be easily proven that on the whole live stock farmers are much more prosperous than grain farmers and so long as this holds true we shall only be doing our plain duty when we preach in an orthodox way that gospel of stock raising.

GOVERNMENT FIGHTS HOG CHOLERA.

Senator Cummins, of Iowa, has offered an amendment to the agricultural appropriation bill proposing a comprehensive state and federal campaign for the elimination of hog cholera. Senator Cummins asks for an appropriation for $100,000, with which to enable the federal government to co-operate with the state governments in checking the ravages of this disease, which has already wrought such an immense loss.

In a semi-official letter recently Secretary Wilson, of the department of agriculture, declared that the federal government was powerless to help the state governments in this important matter. Senator Cummins' amendment is designed to make it possible for the government to give the co-operation which the department of agriculture is willing and anxious to give, but which it is prevented from giving at present by lack of funds. Federal experts have already been watching the progress of the disease and making an investigation which will enable them to take hold of the matter promptly once the necessary authorization is given.

Because of being the leading hog state in the Union and because of the extent to which hog cholera has been prevalent within the last year, Iowa will be one of the first states in which the federal aid will be forthcoming. Dean Curtiss, of the Iowa Experiment Station, following a recent visit to Washington made this announcement:

Congress is expected to make appropriation for the bureau of animal industry to come into a number of states to demonstrate how hog cholera may be eradicated by the serum method. Because of its large hog-producing industry, Iowa naturally will be one of the first states chosen for the demonstration. The bureau experts will work in a limited territory, covering several counties They will locate there, encourage general preventive measures and watch closely for signs of the disease. The men who have made a study of hog cholera for the bureau of animal industry are agreed that this way is the only way of combatting it successfully. It must be eradicated at the very beginning, before it has spread over a great territory. When cholera once has a big start and has covered a large portion of the state, it is practically impossible to provide enough serum or to employ enough competent men to fight it satisfactorily.

With two bills already introduced in the Iowa legislature providing for state appropriation and with the federal government proposing to come to the relief in the near future, there seems every prospect of the necessary remedial measures being secured, without delay, for the checking of this disease which has caused such loss and worry among the live stock men of the grain belt.

Use the thermometer in the dairy —summer and winter.

STUDYING THE BULLETINS.

A plea for the reading of bulletins and kindred agricultural literature, rather than a too close attention to ordinary text-books designed for the city boy instead of the farm boy, is made by Prof. L. W. Chase, of the State College of Agriculture of Nebraska, who says:

The farm is one of the greatest laboratories we have. It contains the physics laboratory, the soil laboratory, the rural architecture laboratory, the bacteriological laboratory, the botany laboratory, the topographical laboratory, the psychological laboratory, the crop laboratory, the engineering laboratory, and many others.

When the farmer is taught to overlook the drudgery of the dust which will blow in his face a few days of the year and to study the various courses which he might by reading the agricultural papers, the states' bulletins and the magazine articles, as well as a text-book and applying them to his various laboratories, he will see life in the country different from the way he sees it now.

Second, I would consider that the text-book system is entirely wrong for rural population. Our arithmetics are such that instead of dealing with farming and live stock and such as that they deal largely with stocks and bonds—a feature which none of the pupils will ever have an opportunity to work with.

At one time the four elements of a good country school education were reading, writing, spelling and arithmetic. Writing is not a fundamental element in our later schools. A great many farmers are now owning their own typewriters, hence, instead of using so much time in teaching writing, why not use it for agricultural questions? Change our text-books so that each pupil may see the beauty of his own surroundings.

Another feature which should be dwelt upon in the country schools is that the country life is no harder than the city life, in fact, is not nearly as hard.

Many of the rural schools in the grain belt are finding it advantageous to subscribe and to study daily newspapers and farm papers, the pupils using these pediodicals not only for the practical instruction to be derived therefrom, but as the subject matter of reading and grammar lessons, relegating the old text-books to second place. There is a general tendency toward making school instruction more practical than it was a few years ago and so far as the rural schools are concerned the plan of Professor Chase is an excellent one. Newspaper English is not always the king's English in its purest form, but a pupil who goes out from the schoolhouse well posted on current affairs, knowing to what bulletin or farm paper to turn for practical information, is far more likely to succeed than the one who is able, in a parrot-like manner, to name the principal products of Bulgaria and the boundaries of Baluchistan. The successful text-books of tomorrow will be those which consider the farm child fully as much as the city child, and present the problems in a form which will appeal because of its everyday nature and practical significance.

FEDERAL AID FOR ROADS.

The question of federal aid for good roads looms large. A joint committee of the senate and house, with Senator Bourne, Oregon, (the father of the parcel post bill) chairman, is now investigating the entire subject with every likelihood of a report being submitted favorable to the general project. The main subject under investigation at present is the manner in which federal aid when finally forthcoming shall be distributed, whether to the states according to their population, their area or the mileage of their highways. In a recent magazine article Senator Bourne expressed himself as favorable to a plan which shall combine all three of these elements, inasmuch as it would not be fair to grant more aid to Rhode Island, for instance, than to Iowa, although the population of the former state is much larger than that of the latter; or more aid to Nevada, for instance, than to Nebraska, although the former state is much larger in area than the latter; or to some state which has already solved the good roads problem by thousands of miles of good roads, leaving a state with impassable highways suffering because of lack of the necessary aid.

With federal aid and state aid both imminent, an impetus is being given to road building greater than ever before. The statement is made that $500,000 a day is being spent for good roads in this country, but the general consensus of opinion is that until within the last year or two results commensurate with this immense expenditure have not been secured. There is a feeling all over the country that road building must be made as systematic and as scientific as railroad building, hence the movement for a state highway commission with plenary powers and scientific supervision by expert engineers. Congress has already appropriated $500,000, to be distributed $10,000 to each state for improvement of stretches of road over which rural free deliveries operate regularly. The results of this appropriation will go a long way to show whether or not the federal government will be justified in making still greater appropriations and in going still more extensively into this important subject. The secretary of agriculture and the postmaster-general have both been ordered to loan their influence to the investigation, to the end that actual facts may be secured so that road building may no longer be theoretical, but may at last take on that practical element which it must have in order to secure the best results.

A RIVAL OF KAFIR CORN.

A new candidate for the agricultural championship has appeared in the dry belt, says the Kansas City Times. Feterita has thrown its hat into the ring—or head, more properly speaking, for it is the feterita head which determines the yield to the acre, but the yield is what counts after the sun has burned, and the hot winds scorched, the growing vegetation in the region of deficient rainfall.

Feterita is another contender from Africa, but, far from longing to see it put down and out for the count, the farmers in the short country are spurring it on to greater effort.

Feterita, a nonsaccharine sorghum, is a brother of kafir corn and milo maize. It was brought by the department of agriculture a few years ago from the African Sudan, near the burning Sahara. The new product produces well at experiment stations in Texas, Oklahoma and Western Kansas, and last season several farmers who grew the crop report phenomenal yields. W. A. Taylor, of Lone Wolf, Okla., in a report to the Star, says feterita on his farm threshed eighty bushels to the acre. Growing on the same land, beside the feterita, was kafir, which yielded fifty-three bushels per acre, and milo maize, which produced sixty bushels per acre. "Feterita," says Mr. Taylor, "will mature in seventy days and will stand the drouth better than either milo or kafir corn."

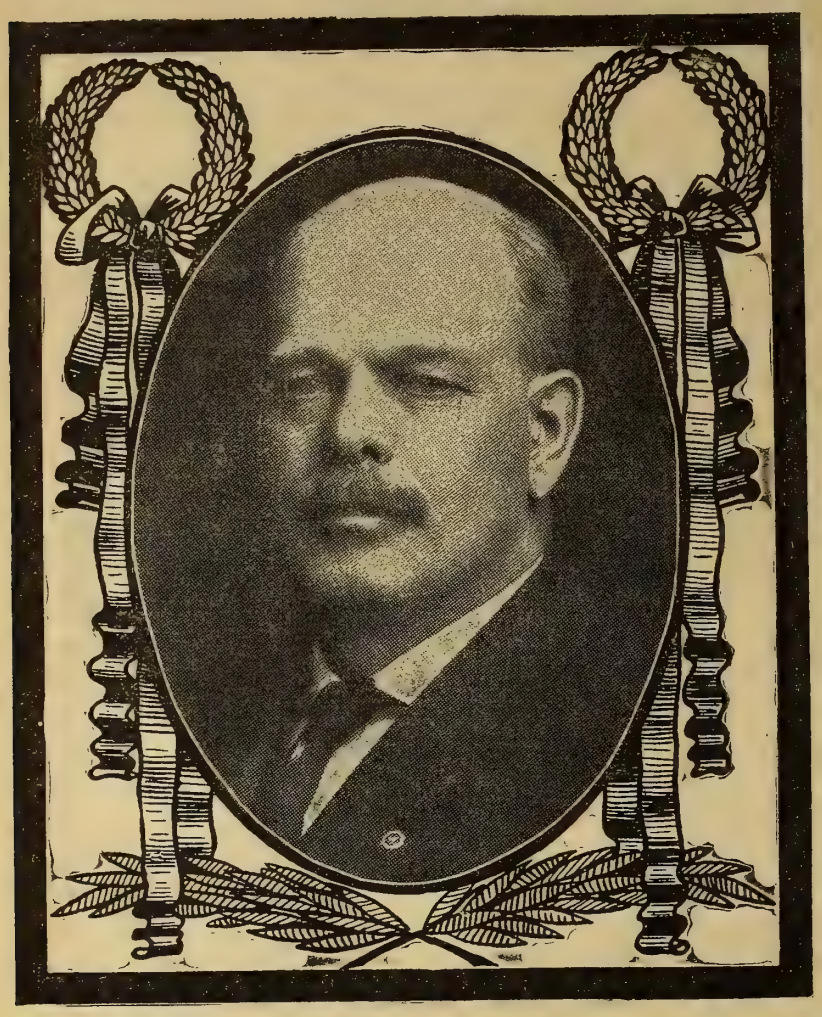
Experiments at the Oklahoma Agricultural College indicate that feterita is not superior to kafir corn and milo, but the college desires to conduct further experiments before making positive statements.

SWISS SCHOOL SYSTEM.

One or two peculiarities, as compared to the schools of the United States, are to be noted in the educational system of Switzerland. In the first place when a teacher is engaged for a position it is for life or a long term of years. He settles down with the people whose children he teaches and generally intends to make that particular job his life's work. The record for continued service is held by a teacher in Thurgau, who has occupied the same position for sixty-five years says a daily newspaper. Another example is given where a teacher has held his position for twenty-four years, and his father held the same position for thirty-five years before him.

W. K. Tate, supervisor of rural schools in South Carolina, who has been investigating the Swiss schools, adds to the above information the following paragraph:

"One of the most attractive features of the Swiss schools is the cordial personal relation that exists between teacher and pupil. There is nothing of the military in the discipline of the school; no lining up; no marching to classes. When the children go to the class room they shake hands with the teacher, greeting him as if they had not seen him for a long time and are really glad to see him. The whole relation is one of charming naturalness and kindliness on both sides."



THE LATE GEORGE P. BELLOWS.

IN MEMORIAM.

DIED, near Maryville, Missouri, Monday afternoon, February 17, 1913, as the result of an automobile accident, George Purdy Bellows, aged 50 years, 4 months and 18 days. The funeral services were held at the family home, in Maryville, Thursday afternoon, February 20, in the presence of a large concourse of friends from Missouri and adjoining states, the services being conducted by Rev. Gilbert S. Cox, pastor of the First Methodist church, of which the deceased was a member. Interment was made in Miriam cemetery.

I HAVE been called upon during the past week to perform one of the saddest duties of my life: To assist in consigning to its last resting place the body of a friend whom I loved as a brother, a man like unto whom another does not exist, a veritable "prince in Israel," George P. Bellows. This friend and I had been comrades in adversity and in prosperity; we knew each other as only men can who have struggled and suffered and conquered together. The world had yet much need of this friend, but, of a sudden, in the twinkling of an eye, he who had been so full of life and vigor was only inanimate clay. As we stood, with bared and bowed heads, watching the "house of man's soul" lowered into the grave there came upon me an overpowering sadness and loneliness. And yet I know that in the blitheness of his unconquerable spirit he who has gone on before would not have us mourn unduly nor surrender the good fight, for it is part of the day's work, and night comes on apace for us all.

If ever a man were an aid, a comrade and an inspiration to another, George Bellows was that, and more, to me. We linked our fortunes together twenty years ago the first of this coming August. We came together with mutual interests. In our boyhood days we had lived in adjoining counties. We knew what it was to be boys on the farm, to scan the horizon just beyond the cornfields for the bigger things of which we fondly dreamed. When, later, we came together in an association and a friendship tested by many years, the dream-days were past; we were face to face with the stern realities of every-day life and work. It was the formative period of present-day agricultural journalism. The struggle which resulted in the survival of the fittest was a strenuous one. George Bellows and I joined hands to carry on a work in which my lamented comrade never lost hope or heart to the very day that his body, cold in death, was found under the automobile which had become an engine of destruction. The agricultural prosperity of the grain belt has advanced by leaps and bounds. Agricultural journalism has come to occupy a plane higher even than the one of which we dreamed twenty years ago, proving its usefulness and value in a thousand unexpected ways. If it has been given to me to bear a part in these victories, alongside my dear friend, I am truly grateful, repaid beyond the power of words to express. I know that George Bellows bore a part and a big one; the work wrought by his hands will stand for many a long day.

George Bellows was a many-sided man. It is given to many men to be successful at some one thing, to few to be successful at many things. Genius has been defined as knowing what you can do best, doing that and nothing else. George Bellows more nearly measured up to that other standard of genius: An infinite capacity for taking pains. Whatever he did he did well. He left no little details unattended to. With a breadth of vision which swept the whole horizon he did not overlook the little things at his feet. His outlook was world-wide, yet he went about the thousand and one little details of every-day life as though nothing were half so important or far reaching. He set the pace in agricultural journalism, as a live stock field man, in a day when the profession was young and untried, when success or failure throughout all the future depended on the type and the acts of the men blazing the new field. Throughout the eleven years when we were associated together in business the counsel of no man was more often sought by me, nor more profitably followed, than that of George Bellows. No man could have rendered more faithful, loyal service. Hard headed and practical, his advice was that of a sage, a friend, a comrade. Together we weathered financial storm and when the haven toward which we had steered, through many a heavy sea, was at last safely reached, it was the hand of George Bellows at the wheel which had aided and sustained mine, which had brought the craft safe through to port.

George Bellows left The Homestead to enter upon a career as a live stock auctioneer. The intervening nine years tested him in the fire of responsibility. He stood at the head of his profession. His word was as good as his bond. Men trusted him as they would a brother, a father. Practicing the square deal to patrons and bidders alike, he hewed close to the line of absolute integrity; respected by all, his life is a priceless heritage to those he leaves behind.

The circumference of his life still widens. He was a live stock breeder, with a specialty for Short-horns, second to none in his devotion to live stock progress. He knew the value of blood and of breeding, whether it be in man or in beast. He devoted himself to developing a breed of stock that makes men richer, prouder of their profession, bigger factors in making America first in agriculture and the kindred arts. He left his imprint on hundreds of grazing herds. Men who have never looked upon his face are looking upon his handiwork today on a thousand hills and pronouncing it good. Born on a farm, educated at the State Agricultural College, teaching a country school, living practically all his life on farms or among those who till them, he knew the innumerable problems which beset the farmer and set himself to solving them, with a sagacity, a perspicacity and an energy never equaled. The record of such a man is a monument that will always endure.

I am not alone in such high tribute. I have before me the tributes of two of Mr. Bellows' associates, men who knew him through their connection with The Homestead in a capacity the same as his, who have been his comrades in hundreds of show rings and sales rings, whose heartfelt words of praise echo that which I would say. Mr. M. T. White, whose association with Mr. Bellows and myself is a long record of pleasant and congenial service, writes:

Having associated with George Bellows almost continually for the past ten or twelve years, I am in a position to speak of his splendid qualities as a man, a husband and a father. The world does not make enough of his kind. He was a man of lofty ideals and high purposes, and yet no man was more democratic in his bearing. Above all things, he was fair in his dealings both to buyer and seller and no man ever had occasion to complain of the treatment accorded him. His like will not soon be seen again, if ever, but his memory will long remain as an inspiration to others.

With every word of Mr. White's heartfelt tribute I thoroughly agree, as I do, also, with those equally sincere words of another Homestead representative, Mr. A. T. Cole, who, because of his intimate acquaintanceship, is amply qualified to speak for hundreds of grain-belt farmers whose hearts are deeply touched by Mr. Bellows' death. Mr. Cole writes:

During the past twenty-five years George Bellows has been a welcome and an honored guest in the homes of hundreds of the grain belt's best farmers and live stock men. Not one of them but felt honored to have George Bellows enter his home. His cheering words, his sunny disposition, his bright optimism combined to make him welcomed by every member of the household. The eyes of hundreds of farmers and stockmen will moisten with tears as they learn that he will be with them no more. But his memory will linger many years and men will be better because he lived and moved among them.

Our friend and comrade has passed on. He lived the good life and when he went a great oak fell, leaving at its base the fragrant flowers of memory which shall forever endure. There was no time to say good-bye; there was no parting message. And yet George Bellows did leave a message, and it is this: The man who does his work well, whatever it is, wherever it leads him, measures up to the standard of true nobility, and when he passes becomes an inspiration to countless thousands, guiding them over rough places, cheering them when they falter, sustaining them when they fall. Such a man does not die; he passes on ahead a little while, but just over the next hilltop we shall see him and greet him again: Comrade and friend:

There is no death! What seems so is transition,
This life of mortal breath
Is but a suburb of the life elysian
Whose portal we call death.

In this spirit, we say of George Bellows: He is gone, but he is still with us, for his record and his memory remain, a blessed, imperishable heritage of all the future.

JAMES M. PIERCE,
Publisher The Iowa Homestead.

A BOOK OF FIELD CROPS.

Two talented scientists have recently combined their efforts in the preparation of a useful book on "Field Crops." They are Prof. A. D. Wilson, superintendent of the institutes and agricultural extention of Minnesota University, and Prof. C. W. Warburton, agronomist of the United States Department of Agriculture. This book is designed primarily to use as a text in secondary schools and wherever agriculture is taught although it will also be of interest to farmers and to those who desire to become farmers. Some comprehension of the field covered by this work may be obtained by a perusal of the chapter headings which are: Classification of Field Crops, The Growth of Plants, Corn, Wheat, Oats, Barley, Rye, Flax, Miscellaneous Grain Crops, The Making of a Meadow, Hay and Hay-Making, Pastures, The Grasses, Perennial Grasses, Annual Forage Grasses, What Legumes Are, The Clovers, Alfalfa, Miscellaneous Legumes, Root Crops, Root and Tuber Food Crops, Sugar Plants, Fiber Plants, Tobacco, Rotation of Crops, and Weeds.

We are in position to supply this book to our readers at the regular publisher's price, namely $1.25.

A BULLETIN ON SEED CORN TESTING.

Every farmer who grows corn will find reading of interest and value in Bulletin 135, "The Germination Test of Seed Corn," just issued by the Iowa Agricultural Experiment Station for free distribution. It is based on two years of careful work with the germination test in which Prof. H. D. Hughes, the author, and his helpers made more than 45,000 ear test readings. Many hundreds of ears of corn were tested in thirteen different testers for the sake of comparing their merit; these ears were then planted in the field so that the value of testing might be determined by actual stand and yield per acre. Nowhere else has so thorough work been carried on and published. The results show conclusively the value of the germination test, they show further that the homemade testers like the rag doll and the saw dust box are good enough. Professor Hughes also brings out some interesting facts about the much discussed "weak kernel" and shows what it does when planted. This bulletin, comprising eighty pages, is the most complete published by any experiment station on the germination test and may be had free by writing to the Bulletin Section of the Iowa Agricultural Experiment Station, Ames, Iowa.

INCREASING THE BEE OUTPUT.

The University of Pennsylvania is trying to have bees make money in winter. Despite all the old theories about bees and the fact that they are the best known of the hibernating insects, science demands that they shall be more profitable and work the year around.

To experiment on this plan, the university engaged Professor Phillips, of the department of agriculture at Washington, who has taken up his work at the laboratories in Philadelphia.

Professor Phillips said that they had not progressed far enough to prove whether it would be a profitable side line for the average housekeeper or not. He is attempting to learn if it will not be productive of more real value to the small home owner than the raising of poultry.

The fact that in the cold weather the bee has no food to keep it at work is given as the reason for its sleepiness, and to solve this problem Professor Phillips is feeding the bees at the university apiary with all sorts of mixed alfalfa and clover and other honey-making products, and some of them have actually been at work in the hives.

The national department of agriculture believes there may be artificial means, thus eliminating the large waste due to damage by rain in the fields after cutting. For two or three years experiments have been in progress in southeastern Missouri with alfalfa hay, putting it through a kiln drying process. Hay artificially dried is subject to great heat for a short time and comes through the process retaining a rich green color.

C. G. PHILLIPS, "The Wool Fat Man"

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Hard and Contracted Feet, Split Hoofs, Corns, Grease Heel, Thrush, Quarter Crack, Barb-wire Cuts, Sore Teats of Cows, Ulcers, Old Sores, etc.

CORONA WOOL FAT must not be confused with ointments which have grease or oil as a basis. The hoof of a horse is from 60% to 70% water, and grease and water do not mix. That is why CORONA WOOL FAT succeeds where other remedies fail. **It is not a grease, but the fatty secretions extracted from the wool of the sheep.** It is readily absorbed by the skin and the hoof and will actually grow a new hoof on your animal. It causes no pain, burning or blistering, and leaves no scars. It will never become rancid or decompose.

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Dear Sirs—I received the Corona Wool Fat all right and have tried it and it works just as you recommend and even better. My horse was sore in the front feet and she could hardly get out of the barn, and in two weeks time she improved so much that she is as limber as ever, and our blacksmith stated that he never saw anything as good as the Corona Wool Fat.

Sincerely, (Signed) T. J. TISHELL.

Dec. 6, 1912.

Dear Sir—I enclose you remittance in full for Corona Wool Fat. Two weeks ago we had a horse cut on a barbed-wire fence, and our neighbor also had a horse with a nail in his foot, and we used Corona Wool Fat. They are both well and everyone now wants Corona Wool Fat of me. I am going to get a dozen or so of the large cans. I know Corona Wool Fat is all you claim for it.

(Signed) B. S. NESMITH, Wiscoy, N. Y.

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Gentlemen—Please send me at once a 2-lb. can of your Corona Wool Fat. It is understood that I am to use this for 20 days in accordance with directions, and if I am satisfied with the results I will send you $1.00 to pay for it. If it does not do as you claim I will owe you nothing.

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P. O. .....

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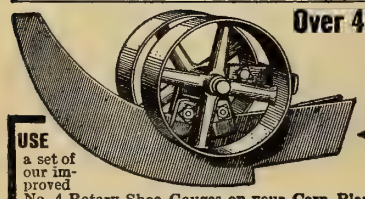

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The Monmouth has a *steel frame* with Wood Cushion. The Main Cross Piece is Heavy Angle Steel—side braces are Stiff High Carbon Steel. Square timber through the center acts as a Cushion between side braces—gives it a bit of flexibility—keeps frame from buckling under heavy strain—prevents springing out of shape. Many other features all told about in my new book. Hard Maple, Oil-Soaked Bearings easily lubricated. Forward Trucks make it as easily turned around as a plow. Scrapers held by Coil Spring in just right position to prevent clogging—occasional foot pressure cleans discs in stickiest soil. Furnished with Transport Trucks, Cutaway Discs, Plow Cut Discs—in all sizes.

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Any dehorning of cattle should be done early, as it is an unpleasant task at best, and if delayed till a warm day or two comes on immediately after the dehorning, serious results are apt to follow.

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Always arrange the rubber boots so they will dry out well after being worn, as they usually are damp inside, which results in their being rotted out if they are left in that condition for very long at a time, and they are too costly to allow them to be wastefully ruined in that manner.

If the well for house use is bored but six inches in diameter there will be no danger of any of the little fellows falling into it. There are only one or two drawbacks to the small-bore well, and they will not even compare with the safety such a well insures in the respect mentioned above; while the lower cost is an item to be considered.

Use the thermometer in the dairy—summer and winter.

Arrange to coop every brood of chicks separately. Where more than one hatch is confined in the same coop, the smaller ones are crowded underneath; often smothered or killed by being trampled on. Then they cannot be expected to secure their share of the feed, if fed with the larger chicks; so that the coop of mixed sizes will turn out most unprofitably. More coops will be needed later in the season, anyhow, as the chicks grow in size, and by cooping each hatch separately, the trouble of moving the chicks around will be avoided.

Buy a feed grinder, and do your own grinding of grain, thus saving the time you lose in going to mill, at the same time cheating the miller out of his toll.

Few of us, even we who preach an abundant water supply for the poultry, realize its vast importance. In the first place, an egg is 60 per cent water, which goes to show how important it is that the layers have plenty of water at all times. Then after eating a meal of dry grain, water relieves the thirst of the bird and promotes ideal digestion. Again, when the layer is about to deposit an egg, she feels the need of a drink, and after the work is done, a cooling draft of water lowers the temperature of her egg-producing organs and soothes her entire system.

If the sheep limps examine it for foot rot.

I often hear it argued that manure will return more put on the best land of the farm than on the poorest. Perhaps this is the truth, but no good farmer will let his poorer soil become still poorer at the expense of making a big showing where the soil is naturally richer.

Don't let the word "automatic" fool you into neglecting the incubator. There never yet has been one invented that would require no attention at all.

Hindsight is always a great deal better than foresight. I have a neighbor who paid seventy-five cents a foot to get a 175-foot hole put down on his farm, in the hope of finding permanent water. It turned out to be a dry hole, although a local "water witch" that "never was known to fail" located the prospect for him. This man would have kept his money had he known what he knows now.

Fertilize the asparagus bed early.

Where cholera doesn't step in to take a toll, there is money in feeding corn to shoats. A thrifty bunch of shoats should pay close around seventy cents for corn, now, beating the elevator price by about twenty cents or more. I wish I had more shoats to feed, but it may be better for me that I have not, for cholera may call around at any time.

The main objection to boarding up a barn or any other outhouse on the inside of the studdings is that this makes a safe retreat for the rats and mice. This is a strong objection and if a double wall is necessary they should be placed on the outside of the studdings with a layer of tarred felt between.

The ground hog failed to see his shadow, but every day since then has been far from springlike. If he really has remained outside all this time he must have his toes and his nose frosted by now.

I am a firm friend of the common red clover because it has done well with me, but on soils where it is impossible to get a stand it may be that sweet clover is the plant to sow. It seems that it has made good with many, both as a forage plant and a soil builder and if it will do this its former reputation as a noxious weed should not stand in its way.

Owing to our open winter it looks as though we will have more than enough roughage to carry us through. Those who are feeding ensilage claim that it "goes" about as usual and with even better results than when the weather is cold and stormy. Score another point in favor of the silo and ensilage.

The man who gives his cattle all sun and no shade in summer and all shade and no sun in winter is not on the high road to success as a stock raiser.

The automobile is no longer a novelty, but to see them sailing along the roads in February is rather unusual for us in this part of the country. I don't know how others feel, but to me the sound of sleigh bells would seem more natural than the chug of the auto at this time of the year.

CURRENT EVENTS

PRESIDENT TAFT has vetoed the immigration bill passed by congress, which would have refused admittance to any immigrant who could not read or write some language or dialect. The bill did not require the ability to read or write the English language, but was designed to shut the doors to the riff-raff from foreign countries who have not the intellectual energy to know at least their own language or dialect. It was admitted in congressional debate that the new bill would keep out many of the undesirables from Italy, Greece and other countries of southern Europe, while it would have practically no effect upon the desirable emigrants from the northern countries of Europe. Notwithstanding this, however, President Taft vetoed the bill, declaring that he was opposed to any law which prevented the downtrodden from any foreign country finding a refuge in the United States. The senate again passed the bill by a vote of seventy-two to eighteen, but the house failed by five votes to repass the bill over the Taft veto. The movement to restrict immigration and require either an educational or a property test has been under way for many years past and there was a general feeling that the educational test was much the fairer and more important. The bill would have placed representatives of the government on board of foreign vessels to make the required examination in advance of arrival at port and this was objected to by many, but was adopted in order to expedite matters. The United States has been built up, in large measure, by the higher class of immigrants from northern Europe, but all too many undesirables have been admitted, from southern Europe, in the past.

PLANS for a reorganization of the republican party continue to be broached. Sen. Elihu Root, New York, and Sen. Murray Crane, Massachusetts, two of the reactionary leaders, came out during the past week in favor of a national convention some time this fall to revise the rules for the national convention in 1916 and cut down the unfair representation of the southern states, thus allying themselves in this particular with Senator Cummins and Senator Kenyon, of Iowa. Senator Root, who was chairman of the republican national convention in Chicago last summer which permitted the steam roller to run things, is quoted as follows: "I am in favor of holding a republican convention at some convenient time next fall or winter for the purpose of doing two things. First, to make representation in national conventions proportional to the republican vote—that is, correcting the southern representation. Second, to permit the republicans of each state to elect delegates to national conventions in their own way, so that the choice in each state will be regulated according to the laws of the state. In order that these changes shall be effective in a convention to nominate a president, they must be made before that convention, and that can be done only by a good convention. The national committee still is bound by the old rules which were adopted by the convention of 1880. They will have to call the next convention just as they did the last one, under these rules, unless a special convention is called to make the changes which certainly ought to be made." There is a general conviction that if the republican party is not to trail third again, as it did last November, reforms must be granted to the people as they have long demanded.

JOAQUIN MILLER, the poet of the Sierras, died in his lonely cabin, high up in the California mountains, during the past week, at the age of seventy. Mr. Miller was known and beloved as one of the leading nature poets of the country. Ever since the publication of his "Songs of the Sierras," over forty years ago, he has been honored as one of the gifted verse writers of this country. He spent the greater part of his life "far from the madding crowd," living in seclusion among the foot hills and mountains which he so dearly loved and which furnished a theme for the great majority of his poems. Mr. Miller was of a picturesque appearance and personality, and with his long, flowing hair and garbed in true western fashion made a striking appearance on the infrequent occasions that he appeared in public. With John Burroughs he ranked as the leading nature writer of the country at the present time

ON TUESDAY of next week Woodrow Wilson will be inaugurated president, the first time that a democrat has been called to the White House since Grover Cleveland was retired sixteen years ago. The president-elect will retain his office as governor of New Jersey until Saturday, March 1st, by which time he hopes to have his anti-trust legislation program completed, the state senate having already passed his bills, with good prospects of the house doing likewise. Governor Wilson will leave Princeton for Washington next Monday evening, accompanied by 1,000 or more Princeton students who will make as much noise as possible in the interests of their distinguished fellow townsman. The first event on the program for inauguration day is the induction into office of Vice-President Marshall, after which President Taft and President-elect Wilson will ride down Pennsylvania avenue together, President Wilson will be sworn in and then will review the big inaugural parade from the White House. President Taft will go immediately to New Haven, Conn., where he will enter upon his duties as professor of international law at Yale University. President Wilson will deliver a short inaugural address, promised not to be more than 2,000 or 3,000 words in length, and will thereafter immediately announce his cabinet appointees, not one of whom has been named as yet, although it is confidently expected that Wm. J. Bryan will be secretary of state. Congress will be called in extra session within a few days after the inauguration, to take up the work of revising the tariff downward, and by the middle of March the democrats will be in full control of the government, prepared to put their program into prompt execution.

BETRAYED by his own troops and placed under arrest in the presidential palace, Francisco I. Madero, chief executive of Mexico since Porfirio Diaz was deposed, has been forced to resign the presidency, thus bringing to a temporary end, at least, the revolution which has practically devastated the city of Mexico for the last ten days. General Huerta, one of Madero's leading commanders and a personal friend of Gen. Felix Diaz, rebel leader, has been chosen provisional president until peace can be restored and a new election called at which a president will be chosen by the people. Separated by less than one-half mile the batteries of Madero and Diaz poured shot and shell into each other for more than a week, stray bullets and shells causing great destruction in practically all parts of the capital city, the American embassy being repeatedly struck and the American ambassador missing death narrowly. The engagement between the two forces has not only been bloody, but is the first time in the history of the world when such a terrific encounter has been fought within the business district of so large and prominent a city. It is stated that between 1,000 and 2,000 lives have been lost, while the property damage mounts high in the millions, many of the leading buildings of the City of Mexico being practically ruined by the artillery duel. President Huerta is described as a stern soldier of the type of former Pres. Porfirio Diaz, a man of great personal bravery and a friend of the older Diaz. Unless he can succeed in effectually restoring peace at an early date a resumption of the revolution is probable, while the possibility of American intervention (to save American life and protect American property) looms large. President Taft has coped with the situation in an able manner, but has hesitated to take decisive action because of retiring from office at so early a date.

The early March litter of pigs is liable to come to a great deal of grief before the robin proclaims the coming of spring. It all depends upon the weather mood and also the farrowing quarters. We can regulate the latter, but not the former. have known it to happen so the March litter fared better than the April or May litter, but the weather wise are promising us fine weather for April and May this spring.

Exceedingly high prices, as a rule, are not good for the finance of the country. It would seem as if the prices now being paid for considerable of the stuff at public sales is high enough to put some of the purchasers to the bad when the day of settlement comes.

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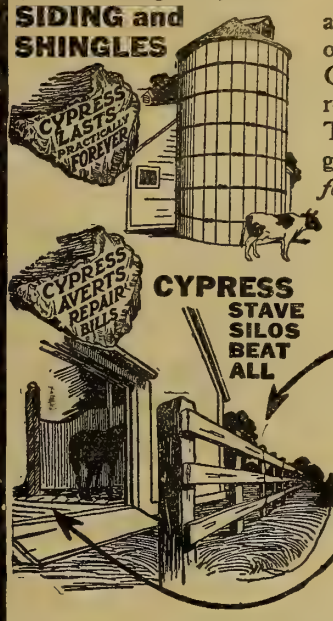

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and a *good one* or he'll be one of the hands on another man's place before he knows it. GOOD TIMES tend to make everybody reckless except the good *business*-farmer. They only make him *more careful* that he gets *the limit* of INVESTMENT VALUE *for every cent he pays out!*

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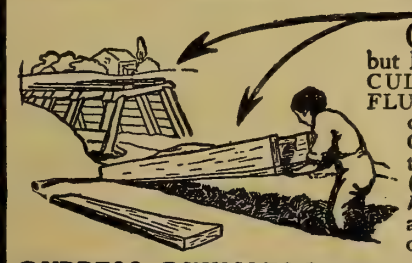
in the Official Rept. (Dept. Agric. Forest Serv. Bul. 95, June 1911), page 33: "Its resistance to decay fits it for Stable-Floors and Timbers near the ground as well as for Fences, Gates, and *especially* Fence POSTS."

THEN PAGE 24: "AS SIDING IT (CYPRESS) PRACTICALLY WEARS OUT BEFORE IT DECAYS." (TRUE).



(Takes paint well, holds it well, but lasts a lifetime with no paint at all). CULVERTS, CURBS, TROUGHS, FLUMES, and every use that hastens decay of other woods, are just where CYPRESS, "the wood eternal" shows the strongest. The Govt. Report, (p. 22) says: "In New Orleans *Cypress Water Mains* remained sound nearly a century — marble gravestones often crumble in less time."

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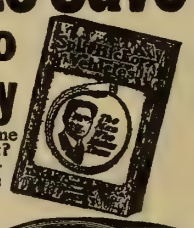

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

MAKING A WILL—CHILDREN OMITTED.

A Subscriber, Axtell, Neb.—My father died leaving three 160-acre farms, valued on the assessor's books at $46,000, and some town property worth $4,000. He had seven children and willed the three youngest all his real estate, providing in the will that they should pay two of the older ones $3,600 each. One of the older ones is dead, leaving two small children. They get nothing. The will states two things: First, that the five children shall share and share alike, but closes by giving only $3,600 to two, and all the land to three. These three children took the old man, seventy-three years of age, out of his bed when he was very sick and had the will made, inducing him to believe that the land was too high at its real value, and that they could not stand to pay the price. They had used their influence to this effect for several years. Father told several parties after the will was made that he wanted all his children to share alike. Can anything be done about it? Does not the law require that something must be given a child?

Answer.—It is most likely that the old man was induced to make the will as he did by the exercise of undue and perhaps wrongful influences, and if this be so the will can be set aside by proc edings brought for that purpose. See a good local lawyer and explain the matter fully to him. Where a parent fails to provide for one or more of his children by his will and the omission is not intentional, such child can get its full share as though no will had been made.

STATUTE OF LIMITATIONS.

A Subscriber, West Branch, Iowa.—A owes B $5,000, for which he gave five notes of $1,000 each, one note being due and payable each year for five years, all drawing interest. A failed to pay off any of the notes, but kept the interest paid. At the end of the five years A wanted the time for payment extended for five years more. (1) When will the first note be outlawed? (2) Is the law on the subject the same in California as in Iowa?

Answer.—(1) In ten years after it is due and payable. (2) It is not. In California a note becomes barred by the statute of limitations in four years after it is due.

SALE OF PROPERTY ON CONTRACT.

A Michigan Subscriber.—A bought a house and lot from B for a certain sum, paying part cash and signing a contract to pay the balance in equal yearly payments. A lived on the place less than a year and made all sorts of improvements thereon, and left it and has paid nothing more on it. (1) Can B hold A liable on the contract? (2) Can A recover anything from B?

Answer.—(1) B can hold A liable on the contract for the amount he agreed to pay. (2) As to whether or not A can recover anything from B depends upon the terms of the contract. It may be that there is a clause in the contract providing that in case A fails to comply with it he is to forfeit the amount he has paid. Show the contract to a good, local lawyer.

HEIRS' MONEY IN COUNTY TREASURY.

A Subscriber, Newhall, Iowa.—A died leaving property in Illinois, willing the property to his wife during her lifetime and then to the heirs of his brother. The property was sold and some money left in the county treasury for the heirs. Can the heirs hold the property, or will they have to be satisfied with what money is left in the county treasury for them?

Answer.—The property was no doubt sold by and under the order of the county court, and the proceeds of the sale deposited with the county treasurer by order of said court, as the law of Illinois provides. Therefore the heirs cannot hold the property, but are entitled to the money, and may apply to the court for an order directing it to be paid over to them.

DANGEROUS PUPIL.

A Subscriber, Wellman, Iowa.—A had two children going to school, one of them nine years old. Y has a boy about ten years old who seems to be feeble minded, and he was going to school. He kicked A's nine-year-old child and she died from the hurt four days' afterward. The school board refuses to turn the boy out of school. The boy threatened to kill with an axe he carried. A keeps his other child at home. What can A do about the matter?

Answer.—A has no legal remedy. The school board has power to expel

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the boy from the school, but if it refuses to do so, there is no way to compel it.

FENCES—JOINT TENANCY HUSBAND AND WIFE.

A Subscriber, Oconto Falls, Wis.—A and B own adjoining farms. A owned his land first and therefore he erected all of the partition fence, consisting of three barbed wires, and there is a large bow in the fence. (1) Can A compel B to pay him for half the fence, or can B put in his half and let A take his fence up? (2) A and B were husband and wife and owned a farm, the deed thereof being made to both A and B. They have two children, both of age. A died. Can B sell the land without making any settlement with the children. If not, can the estate be settled without going through court, if B and the children can agree to a settlement? (3) Would a settlement by agreement stand in law?

Answer.—(1) A can compel B to pay him for one-half the value of the partition fence by having the fence viewers meet and determine the matter and fix the value. (2) When A died the entire farm became the property of his surviving wife, and she can sell it without making settlement with the children. No further answer is necessary, as A and his wife were not tenants in common, but tenants by entirety, or commonly known as joint tenants of the land.

ADJUSTING LOSS BY WILL.

An old Subscriber, Earlham, Iowa.—My youngest son bought 160 acres of land at Akron, Colo., in 1909 and was married in the fall of the same year and moved to the land. His wife's parents had land there and moved to it at the same time. My son put buildings on the land and broke up seventy-five or eighty acres. In the fall of 1910 he became sick and came back to Iowa the next summer and died in August, 1911. He left one child, six months old. An administrator was appointed to settle his estate. I had loaned the boy $1,050 to pay on the land and also secured him in $1,000 more to improve the place. He contracted other debts, so the whole amount of claims against his estate was $5,800. I paid the $1,000 note I secured for him. The administrator said my claim was a fourth-class claim and I would not get more than 10 per cent, as there were claims of the first, second and third class ahead of it. My claim is $2,400. The place was sold and the widow bought it December 2, 1912, for $1,000. Can I so arrange matters that my loss will come out of the child's interest in my estate, and if so, how can I do it?

Answer.—You can very easily arrange the matter by making a will giving the child that much less than you would otherwise give it.

SURETY ON NOTE—NO NOTICE.

A Subscriber, Keswick, Iowa.—A gave his note to a certain bank and B went his security, or signed the note with A. The bank kept the note in its possession for nearly three years, neither principal nor interest being paid thereon. At the end of this time A disposed of all his property. B had no notice of non-payment of the note. Has the bank done its duty to B, and what is the effect on B's liability

Answer.—The bank has not done its duty to B in the matter. When the note was due, the bank should have presented it to A for payment and if not paid the bank should have notified B without delay of such non-payment. Having failed to do this the bank will be unable to collect the note from B by law.

REDUCING COST OF BEEF PRODUCTION.

By H. J. Hess.

ONE of the problems which confronts the farmer of the corn belt region of the United States is the production of beef on the farm. The dry land farmer and the irrigation farmer have divided up the ranges and ranches and the cheap beef of the past is no longer a pos ibility. We must raise our own beef or we must ship it in cold storage from the Argentine or other countries. There is no getting around this problem; it must be faced. We have a rapidly increasing population of non-producers, who must have meat, and it is up to the farmer of the corn belt to supply this meat.

The former methods of cultivation on many of our corn-belt farms have rendered it absolutely necessary that live stock be kept for the maintenance of their fertility. And yet the farmer finds himself seriously hampered in facing this problem because of the fact that he does not know how to profitably produce beef under present conditions. With corn at from fifty cents to seventy-five cents per bushel a large investment in farm equipment and work teams, the high price of land, the scarcity of help and the other conditions which surround the present-day farmer, he is at a loss to know how to begin to raise beef profitably on the farm. The existing high prices for beef animals will undoubtedly result in a large number of farmers attempting to raise beef and this in turn will result in a larger consumption of the corn crop, with the final result that a greatly increased number of beef animals will tend to reduce the price on the market, while the greater increased consumption of corn will tend to raise its price on account of scarcity. This will make many farmers conclude that it is more profitable to sell their corn at an occasional high price than it is to feed it and sell it on the hoof.

Right here is where the silo has come in to play an important part in beef production. With ensilage the cost of feeding cattle can be very largely reduced. One acre of good corn put in a silo will furnish the best of roughage for four head of steers weighing 1,000 pounds each, for six months, with but very little hay. This same acre would not furnish hay enough for two steers the same length of time. By the use of a silo we can take at least one-half our present hay meadows and convert them into cattle pastures and this will enable our corn-belt farmers to keep more cattle on their farms in the summer months.

Let us compare ensilage with corn fodder in the shock. One acre put into a silo will furnish as much feed as two acres the same kind of corn in the shock, besides the advantage of having your feed where you can get at it with pleasure during the cold winter days. Corn put into the silo is very palatable and stock clean it all up and the waste is so very small that it does not pay to mention it.

It furnishes a succulent feed for the winter months where, under old methods, we had dry feed stuff altogether. I have fed steers as high as thirty-five pounds of ensilage per day with no bad results: I have never had a steer miss a meal or even scour. When given all the ensilage they want with their grain rations, they will scarcely ever eat hay at all. From my experience in feeding beef cattle, I think a ration of twenty to twenty-five pounds of ensilage, fifteen pounds of corn cob meal or crushed ear corn, two pounds of cottonseed meal and what clover or mixed hay they will eat is very satisfactory. By the use of the silo the corn-belt farmer will be able to produce his own feeding cattle instead of depending on the market centers for them. Farmers of the corn belt will be able to produce prime beeves at a young age that will pay a good profit and beef production can nearly be doubled on our farms.

All experience teaches that the farmer, who raises beef animals and feeds them from the crops produced on his own farm, not only makes money by the direct operation, but is free from the losses which surely come to those who wobble from one thing to another, and he is sure of maintaining the fertility of his own acres so that his farm may not only be the means of his support and pleasure, but a rich inheritance for the coming generation.

Get the breeding stock in the poultry yards separated at once. The effect of mating will taint the strain for a longer period of time than most of us think.

Cut Down Upkeep

By R. E. Olds, Designer

I have built cars for 26 years—60,000 of them.

But of all I have learned, nothing else compares with these ways for cutting upkeep—shown in Reo the Fifth.

The Final Cost

The buyer sees just the car's first price. But the vital thing is the after cost.

That may be little or it may be much. It depends on the builder largely. And the difference to you, in the course of five years, may be $1,000.

How I Reduce It

One big item is tires.

In Reo the Fifth I cut this cost by using tires 34x4. They cost $60 per set more than tires often used on a car of this weight. But they save many times that in tire bills.

I use in this car 15 roller bearings—11 Timken, 4 Hyatt. They cost five times as much as common ball bearings. But they do not break.

I use 190 drop forgings, at twice the cost of steel castings. But drop forgings don't have flaws.

Margin of Safety

Axles and driving parts should show very large over-capacity. I build them all to stand the tests for a 45 h. p. car. That leaves enormous margin.

I have all steel made to formula. Then I analyze each lot twice.

For testing my gears I use a crushing machine of 50 tons' capacity.

I use 7-leaf springs, two inches wide. And I test them for 100,000 vibrations.

Each engine is tested for 48 hours—20 hours on blocks, 28 hours in the chassis. I employ unusual tests.

Each car in the making gets over 1,000 separate tests and inspections.

Costly Items

I use a $75 magneto to save ignition troubles. I doubly heat my carburetor, for low-grade gasoline. I use a centrifugal pump, not a syphon. That adds about $10.

I use 14-inch brake drums.

I give each body 17 coats, so the finish will endure. I use the best genuine leather in upholstering. Also the best curled hair.

I am using flush electric dash lights in place of the old-style lamps.

All these things are costly. Yet I supply them, through factory economy, in a wonderfully low-priced car.

A car without them is likely to cost five times as much for upkeep. There may be costly repairs, and frequent.

I never would buy a lesser car. Therefore, I never shall build one.

Our $100 Control

Here is one feature worth $100 which costs not an extra penny.

It's the Reo center control. All the gear shifting is done by moving one little handle only three inches in each of four directions. It is as simple as moving the spark lever.

The driver sits on the left hand side, as in the latest high-priced cars. And this control lever is at his right hand.

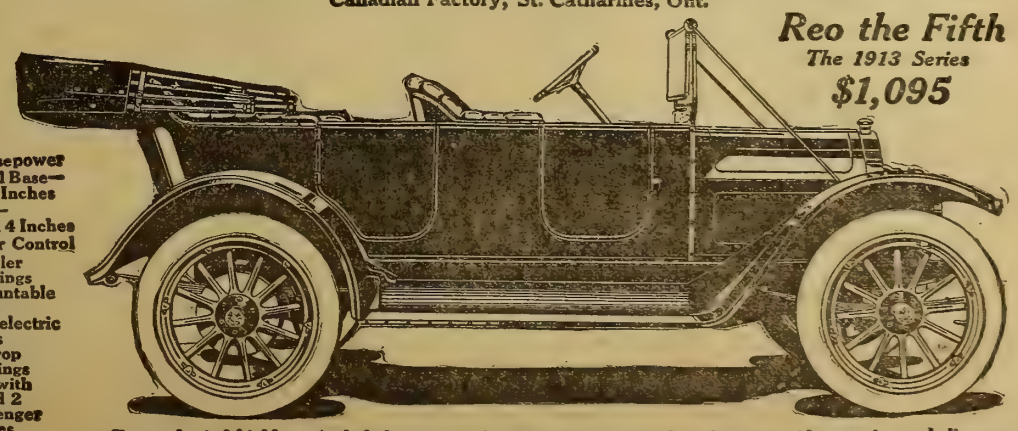
Both brakes are operated by foot pedals. There are no brake levers, so both front doors are clear.

A car in these days should have these modern features.

Sold by 1,000 dealers. Write for our 1913 catalog and we'll tell you the nearest show-room.

R. M. Owen & Co., General Sales Agents for Reo Motor Car Co., Lansing, Mich.
Canadian Factory, St. Catharines, Ont.

Reo the Fifth
The 1913 Series
$1,095



30-35 Horsepower
Wheel Base—112 Inches
Tires—34 x 4 Inches
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15 Roller Bearings
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Three electric lights
190 Drop Forgings
Made with 5 and 2 Passenger Bodies

Top and windshield not included in price. We equip this car with mohair top, side curtains and slip cover, windshield, gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for $100 extra (list price $170).

Succeed with SALZER'S Seeds

SALZER'S Northern Grown ALFALFA

The farmer's "get-rich-quick" crop. Can be grown in any state in the Union. Alfalfa is the crop of the future—no! the crop of the present. Salzer's Alfalfa is Northern Grown—acclimated. Hardy, luxuriant. Has three times the feeding value of Red Clover and Timothy. If you keep cattle, hogs or sheep, you should plant Alfalfa. But be sure you get Salzer's famous Twentieth Century strain, with United States Government purity test of 99.85 per cent.

You have to get it direct from us. We have no agents or dealers; thereby save you commissions. We give you the lowest prices and highest quality. Send for quotations.

Salzer's Earliest Six Weeks Potato

The monarch of general purpose potatoes. Northern Grown. Ten days ahead of Early Ohio and other "earliest" sorts. Reliable yielder. Good size. Splendid keeping. The potato for every potato-growing district, north or south. We handle all reliable varieties. Prices always the lowest. Get our figures and change your seed stock this year while potato prices are low.

Salzer's Famous Silver King Barley

We are the largest growers of Seed Barley in the world. Our Seed Barley is at the top for yield and quality. Quick to mature. Fabulous yield of 175 bushels of 50 pounds per acre. Catalog contains sworn statements of growers. Send for it.

Salzer's Rejuvenated White Bonanza Oats

has stood at the top for more than twenty years. It won $500.00 in gold open to the world for the heaviest yielding oats. We have rejuvenated this oat and the result is an oat stronger in straw, healthier, larger, plumper, meatier kernels, yielding from 20 to 50 bushels per acre more than any other oat known! There is no finer, plumper, handsomer oat grown in the United States.

10 Big Sample Packages 10c

For ten cents we gladly mail one package each new $1,000 Marquois Wheat, Twentieth Century Alfalfa, Rejuvenated Bonanza Oats, Silver King Barley and other farm seed packages, together with our great seed book.

Our 1913 catalog is bigger and better than ever. You can get valuable articles for the farm, home or personal use, as premiums, free. Send for this catalog. It is free for the asking. But, remember, now is the time to send your dime for our great farm seed offer.

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We are America's largest growers of farm seeds—Alfalfa, Clovers, Grasses, Oats, Rye, Barley, Wheat, Potatoes, Seed Corn, Onions, Tomatoes, Peas, Beans, etc. All seeds are Northern grown and grown under our eye and our care, on the lands famed for its Red Clover. No seeds shipped before being thoroughly twice tested for vitality and trueness to type. You will find what you want in our big catalog and premium list. Copy free to you on request.

JOHN A. SALZER SEED CO.
124 So. Eighth St., LaCrosse, Wis.

SENATOR CASHMAN'S 100% SEED CORN

I want to *increase* the corn yield of *every* farmer in the Northwest.
I want *you* to grow *more* bushels of corn per acre this year than you *ever* grew before in your life.
I want *you* to have the benefit of my experience.
I am a corn crank---its my hobby.
I have been breeding and growing corn on my farms here at Owatonna for years.
I make my fields produce from 35 to 40 bushels *more* corn per acre than the average Minnesota field.
My claims are based on *facts* and are not mere extravagant statements.

FREE TO YOU

Handsomely illustrated and descriptive 1913 Seed Book telling all about Farm, Vegetable and Flower Seeds—"Seeds of Quality"—will be mailed to you on request. Write today - now.

To make sure that the best scientific methods would be used in growing, selecting, testing and storing my seed corn, I employed Professor Theodore Sexauer, the greatest corn expert in the Northwest, with the result that I now have several thousand bushels of 100% seed corn—corn of my own growing, carefully selected, hand gathered in the fall before being injured by frost and every ear individually tested.

This quantity of perfect testing seed corn will not last long. Last year I returned $15,000.00 to customers after my supply was exhausted because I would not fill their orders with inferior seed. I will do the same this year. When my 100% corn is sold no further orders will be accepted--the money will be returned. Therefore, it behooves you to order early. First come, first served.

You can grow as much corn to the acre as I do. My book "Seeds of Quality" tells you how I do it. If you will get this book, which I send free of charge, and will get my **guaranteed 100 per cent seed corn,** you can improve your stand tremendously and get more bushels from every acre.

My seed corn is all sold on the ear and every ear individually tested.

Don't plant corn and just HOPE it will grow. Get my 100 per cent seed and KNOW it will grow.

Thomas E. Cashman, President,

Clinton Falls Nursery Company, - - Owatonna, Minnesota.

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Four generations of fruit tree growing experience, boiled down, is ready for you **absolutely free of charge.** Don't experiment with fruit trees of **unknown** productiveness, uncertain quality. Stark Trees **always** pay big. The secret is in Stark Brothers' perfect method of growing, transplanting, packing and shipping.

50 Years Ahead of Any Other Nursery in America

Why don't you take advantage of our **Special Service Department? All Advice Free to You.** We send you **free** the best scientific methods of preparing your soil for **biggest profits;** show you how to prune your trees, give you best methods of Stark cultivation; how to spray the Stark way. We make your orchard a **winner** and a big money maker. Write us at once for Stark Year Book, complete fruit tree literature and statistics. **Write today.**

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A Record of One Hundred Honorable Successful Years in Business

FARM SEEDS Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, **Seed Corn,** Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. **Large illustrated catalog of great value to farmers free.** Mention this paper.
Iowa Seed Co., Dept. D1 ***Des Moines, Iowa.***

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

HARDY CATALPA CULTURE.

A reader of this paper asks for some information upon the subject of catalpa growing. It is one of the good signs of the times that there is a constant growing interest in timber culture. Among the varieties which may be planted in the central north with best prospects of success, in a commercial way, the catalpa takes high rank. This tree has sported into several forms which are native to the region extending from central Ohio, and Indiana southward. The varieties grown in the extreme Southland are too tender for use in the Northwest. But the form called Spaciosa, has proven to be hardy, succeeding as far north as central Minnesota. But going westward the limit of its safe culture would probably cut through north Nebraska.

The western boom for this tree was started in the sixties, by Suel Foster, a nurseryman of Muscatine, Iowa. He looked up the record of the tree as to rapidity of growth and durability of timber, and published his findings. At the same time he secured seed and starting the little trees in nursery, disseminated them all over the Northwest. He dwelt especially upon the value of the timber, and as one means of advertising it he furnished catalpa boards for the interior finishing of the horticultural rooms in the new capitol then building in Des Moines.

The culture of the tree made its way rapidly among foresters, and there soon came from all quarters stories of failure as well as success. An investigation showed that the brisk inquiry for the seed had led to the mixing of the tender, worthless southern varieties with that of the Speciosa. This was a bad break and caused trouble and loss to great numbers of planters.

As a rule the nurserymen were not personally responsible. They bought such seed as they could get in the market, supposing it to be all right. As the seed of the different varieties are indentical in appearance no one can distinguish them after they are once mixed. This unfortunate error gave catalpa growing a black eye, from which it has not entirely recovered. There are scores of planters all over the central North who will today declare that the catalpa is a humbug. And their experience seems to warrant the charge. But when more care was exercised in getting true hardy seed, and as far as possible northern-grown seed, better results followed.

There are some growers who claim that it matters little where the seed is grown—in Minnesota or Kentucky, so that it is the Speciosa. But we believe it safer to choose the northern seed. Trees do slowly adapt themselves to their climatic environment, and it is reasonable to expect that trees grown in the North for two generations will be hardier than trees from the South. And there is no difficulty now in getting northern seed.

Two ways are open to the grower. The money-saving way is to get seed and grow the trees in the home garden. The seed is small—somewhat the shape, but a little larger than parsnip seed, and a pound of it ought to start 5,000 to 10,000 trees. Plant either in fall or spring, scattering in the row as you would any garden seed. Cover but lightly—an eighth inch of soil is enough—but mulch with a half inch of hay or straw to retain moisture until seeds germinate. Even with favorable weather it will be ten days or more before the plants appear. Cultivate thoroughly for two months, and if you have too good a stand thin out to one every three inches.

In October your trees should stand from twelve to twenty inches. They will be ready to transplant the following spring. But a quicker way to get a grove is to buy the one-year seedlings of the nurseryman. The trees have strong vitality and will stand handling. And always provided you get the right variety, you will be one year ahead of seed planting. They will cost you from $2 to $4 per 1,000.

Genuine—Unadulterated

No matter how **valuable** your land. No matter how much you **weed, hoe** and **dig.** No matter how much the sun shines or how much it rains, nor how much you irrigate your land; **and all these things represent money.** Your efforts are all in vain and the money lost if you get cheap seed. Why take a chance even if you get your seed for nothing, on stale, low-germination test inferior seed when you can get **Pure—Genuine--Unadulterated** seed from us? We sell only one quality—no second or third grades

50c Collection Only 10c

All packed in big envelope which is good as part payment on future orders Good for 25c on orders of $1.00 or more. Collection contains one regular 10c packet each of **Champion Pickle Cucumbers, Matchless Tomatoes, Prize Head Lettuce, Southport Globe Onions and large G-B Mixed Sweet Peas.** N thing like equal value ever offered before.

FREE SEED BOOK
New--Original--Different

Here's the greatest seed book of the year—special field articles by Prof. M. L. Bowman, recognized authority on seeds.

Send for it today, enclosing 10c for our famous 50c collection of Pure seeds
Write to Box 106

Galloway Bros. Bowman Co.
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Is Your Home Sheltered?

Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

TRANSPLANTED 100 EVERGREENS $7.50
Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of

IOWA'S GREATEST EVERGREEN SPECIALIST.

I ship direct from the ground on the day the order is received. The trees you buy of agents have been out of the ground often three weeks. That is why they don't grow. Buy direct of me and you will be satisfied. We can also sell you prize-winning **"True-to-Name" Fruit Trees** and berry plants guaranteed to prove hardy or cost you nothing. Catalog of special bargains FREE.

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EARL FERRIS NURSERY CO.
210 Bridge HAMPTON, IOWA.

AINSWORTH

Seed Corn that Tests 95% to 100%

This is our guarantee. Packed in each crate or bag is a slip showing the actual germination test. **Test the corn yourself 12 days.** If not up to guarantee, return at our expense. We own 1000 acres of the best corn land in the world. On these farms we grow our seed corn. Ours is one of the largest and unquestionably the most modern seed corn building in the country. Corn dried on racks; hand picked three times. Corn all in plant by Nov. 12th. All standard varieties. Corn bred for high yield. VISITORS WELCOME. **Send for our big convincing catalogue.** FREE. Read our offer to pay your railroad fare to visit us. See testimonials stating that our corn has produced from 5 to 25 bushels more than crib dried seed. Our prices are reasonable. Address

W. T. AINSWORTH & SONS
BOX E, MASON CITY, ILL.

Genuine Montana ALFALFA

is scarce this year. Those who want the true northern-grown strain should buy it quickly. Secure it from us and make sure of getting the right seed.

Samples and Catalog FREE

If you want farm and garden seeds of quality, write us. State what interests you, and quantities needed. We'll mail samples and prices. Write for instructive catalog TODAY. A post card brings it.

CURRIE BROS. CO., 207 Broadway, MILWAUKEE, WIS.

SWEET CLOVER

The new pasture and forage clover. Equal to alfalfa in productiveness. Sample seed and circular giving directions for growing mailed free on request. Also copy of our large illustrated catalogue of Farm and Garden Seeds. Ask for it.

IOWA SEED CO. Dept. D1 Des Moines, Iowa

BOYS-

LOOK HERE!

WM. GALLOWAY OFFERS YOU YOUR CHANCE

I want every ambitious boy over 10 years old to send me his name and address (a postal card will do) so that I can tell you about a splendid opportunity I've got for you.

Wm. Galloway, Pres.

I Was a Boy on the Farm

Only 10 years ago. The first actual money I ever made was from selling water melons I raised, myself, at 10c apiece. The next money I earned came from answering an advertisement something like this in the Iowa Homestead. This started my business career.

Answering This "Ad" May Start Your Business Career We want to introduce our pure, genuine and unadulterated field, farm and garden seeds in every neighborhood in the U. S. for 1913. We need your help. I am not only going to pay bright, ambitious boys **real money** for their work, but I also have

Many Splendid Prizes

For boys who do the best work. I am going to give a lot of cash prizes—every boy has an equal opportunity. It's a fine chance to get started in business for yourself. The work is light—easy—pleasant—profitable. Just begin at home. Your own folks need seeds—nearly every home in your neighborhood will help your business grow. **On a Postal, just say:** "I want to know more about your business offer to boys." Write plainly. I will then send you—**Free**—our Beautiful Seed Catalog—new, original, different from all others—and my Special Offer of Fine Presents—with full details of the offer. **Wm. Galloway, Pres.**

GALLOWAY BROS.-BOWMAN CO.
100 Galloway Station, Waterloo, Iowa

OUR NEW BEAUTIFUL CATALOG FREE

FERRY'S SEEDS

The sower has no second chance. A good beginning is the only safe rule; put your faith in the best seeds you can buy. Ferry's have had the highest reputation for over 50 years. For sale everywhere.

1913 Catalogue free on request.

D. M. FERRY & CO., Detroit, Michigan.

GOOD SEEDS

BEST IN THE WORLD
Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE

Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

WRAGG TREES

WE GROW AND GUARANTEE THEM

We offer 500,000 First Quality Trees. All varieties of apples, peach, pear, cherry. Evergreens by the million. **New Catalog for 1913 just out**—Save money. Get our wholesale price list. Write today.

WRAGG NURSERY CO.
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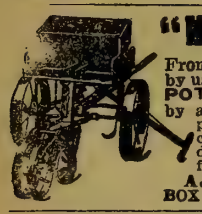


"More Potatoes"

From ground planted secured by use of The **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for **CATALOG**, price, etc.

A. J. PLATT, MFR.
BOX H STERLING, ILL.

Why Don't You Buy Guaranteed SEEDS

Guaranteed to satisfy. Write for our large 76-page catalog telling all about our sure way to grow Garden, Flower and Field seeds. Prices low, quality guaranteed. It is to your interest to write **A. A. Berry Seed Co., Box 203 Clarinda, Iowa**

CLOVER

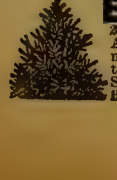
New Crop Iowa Grown Recleaned TESTED

and inspected Red Clover. Also Mammoth, Alsike, Alfalfa and Sweet Clover of choicest quality.

TIMOTHY **Blue Grass, etc., at low prices. Now is the time to buy.**

Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.

IOWA SEED COMPANY, Dept. D 1 DES MOINES, IOWA



EVERGREENS

200 Norway Spruce, 3 to 6 in., $1; 100 Arbor Vitae, 3 to 6 in., $1. Prepaid by mail. Many other $1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free.

HARVARD NURSERY, Box W HARVARD, ILL.

So it is a question of money and time, which each man must decide for himself. But mark this point: if you dislike the fine, close work of seed planting and gardening, and are therefore likely to neglect your young trees, you had better buy of the nursery.

Experience in growing catalpa shows that the best way is to plant in groves, four by four, or six by six feet. Planted closely the trees trim themselves, grow straight and thinning out at the sixth year, the poles are valuable, being ten to fifteen feet tall and three inches in diameter at butt.

When planted in rows along street they will be larger at the ground in a given number of years, but will make many large branches and be spreading trees. If planted six by six feet, and not thinned they will at the end of ten years make each one good fence post, and a lot of wood and poles. And when fifteen years old each tree will make three good fence posts, posts worth a shilling each, or thirty-seven and a half cents per tree. As you have 1,800 trees per acre this figures out a gross value for the crop at the end of fifteen years of $675 and this equals an annual rental of $3 per acre for the time the crop was growing. This is supposing that you wish to realize at the end of fifteen years, but you had better not. The trees will grow more rapidly in value after that time, and you should by all means let them stand for twenty-five years.

But this is "if," "but" and "perhaps." If you get the right trees to start with, and if you give them the right start, and if (here comes in the most important if) if you plant them upon rich soil. It does no good to plant the catalpa upon poor soil. A rich, deep soil, either prairie mold or forest leaf, compost will make the catalpa hump itself. But a thin sandy soil, or a poor clay will not do it. This tree is a native of rich bottom lands, and it has its strong preference for the soil where its roots are to labor for a livelihood. So if you have a rocky hillside, or a sandy plain which you have reserved for timber, try the larch, or the walnut, or anything but the catalpa.

Will it pay to plant timber? Yes, by all means. Old Judge Oliver, late of Monona county, Iowa, one of the most successful foresters which the state has ever produced, used to say: "No land is too valuable for tree planting." We believe that he was right. It is not only the direct results in dollars and cents, but there are various economic and general profits from groves not easily estimated, but none the less real which swell the profits in a term of years far beyond what any common farm crop yields. Plant timber, of the best varieties, and plant generously.

THE FARM GARDEN.

To the Editor of The Homestead:

With a little attention there is no piece of land which gives the farmer better returns for the labor and cost expended than the home vegetable garden. Yet few farmers realize this for they neglect the garden and put the time onto what they mistakenly believe to be more important work. If strict account is kept the average farmer will find that under ordinary conditions his garden returns clear profit of at least $100 per acre. If a good market is handy it is often very profitable to raise a little more than we need for home use and sell. Of course where the surplus cannot be sold to good advantage only enough of each vegetable for home use should be grown so that there will be no waste. Vegetables are about the most healthy food man can eat and if there is a good variety in the garden almost the entire summer's living can be had from home-grown products. Then too they can be taken fresh and crisp from the garden direct to the house and served at their very best. Truly a good garden is worth working and planning for. The earlier the garden can be brought to bear and the longer it can be made to continue so the more value it will return. We should plan the garden with this idea in view. I prefer to plow the garden in the fall for the freezing not only improves the texture of the soil so that the seed bed is better, but also enables one to get started several days earlier in the spring than

One Dollar

Is All It Now Costs to Have Your Seed-Grain Cleaned and Graded

Manson Campbell

Now that farmers everywhere are cleaning and grading their Seed Grain, the question is, how to get it done *best, easiest* and cheapest. Here's my 1913 offer:

Send me one dollar and I will ship you, FREIGHT PAID BY MYSELF, this improved 1913 model Chatham Grain Grader and Cleaner with all equipment. Clean your Seed Wheat, Oats, Flax, Barley, Peas, Beans, Corn, Grass Seed, etc. Then PLANT those fine seed. AFTER you have harvested a bumper crop, pay me the balance of my low price. Not one penny need you pay, except the $1, until next November. And by November HAVE MORE THAN PAID ITS ENTIRE COST in INCREASED CROPS. Then you'll have a "Chatham" to work FREE for you the rest of your life.

Your Dollar Returned

if you want it. I don't want your dollar or want you to keep my "Chatham" unless it pleases you. If, after a 30-day test, you are not satisfied, return the machine at my expense and I will send back the dollar.

A Machine That Fits Your Farm

After 40 years' experience, I know every grain and noxious weed grown in America. I know the section where each one grows. I know every grain and weed that grows on *your* farm. Experience has shown that a Grain Grader and Cleaner should have special equipment for the particular farming section to which it goes. For example, I send an *entirely different equipment of screens*, riddles and gangs to Maine from what I send to California. In fact, *there are scarcely 2 states in the U. S.* to which *I send the same equipment*. Thus you get the exact and proper outfit to handle the grains and weed seed that grow on *your* farm. You *don't* have to pay for a lot of extras for which you have no use.

Extra Screens and Riddles Free

In case you want more or different screens, just write me and I will send them free. Not a penny would I ask for extra screens and riddles.

I also have a Free Service Department which will separate, clean and grade FREE any mixture you send in. If you've got some impurity in your grain that you cannot get rid of, don't get discouraged. Write me.

Handles all Small Grain and Grass Seed

My 1913 Chatham handles over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc. Takes cockle, wild oats, tame oats and smut from seed wheat; any mixture from flax; buckhorn from clover; sorts corn for drop planter. Removes foul weed seed and all sun-taken, cracked or sickly grains. Takes out all dust, dirt and chaff. It is also a bully chaffer. Handles 60 bushels grain per hour. Gas power or hand power. Easiest running mill on earth.

Special Corn-Sorting Attachment

Last year I added a Corn-Sorting Attachment, which grades corn so that a *round or edge* drop planter drops the right number of grains in 98 out of every 100 hills (in repeated tests at State Agricultural Colleges). Same planters, loaded with *ungraded* corn, make only 65 out of 100 perfect hills. In two months I shipped to Iowa farmers alone 4,000 machines with Corn-Sorting Attachments. Try my Special Corn-Sorting Attachment. *It will increase your corn crop amazingly!*

Postal Brings My New Book

on Seed Selection. Every chapter is highly practical and exceedingly interesting. It shows an easy, simple way to get rid of any weed on your farm; how to separate any mixture of grains—in short, how to get perfect grain for *sowing, feeding* or *marketing*. Send postal *today* and receive by *next mail* my new Book *free*. Address Dept 50

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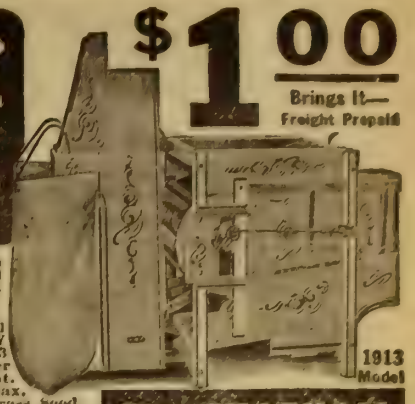

1913 Model

The CHATHAM Grain Grader and Cleaner

Big Money in Oats AND HOW TO GROW THEM

I want every reader of this paper to write me for my new book, "Big Money in Oats and How to Grow Them." Just mail me a postal or a letter giving me your name and address and I will send you this valuable book together with a free sample of our pure Canadian Grown Regenerated Swedish Select Seed Oats. This book was written by Wm. Galloway, Professor N. L. Bowman and other seed experts. It contains priceless information worth real money about how to make big money in oats, how to make a seed bed, how to start a seed patch, how to make oats stand on rich ground and how to grow a bumper crop of oats. It is profusely illustrated by photos taken from actual life and contains, besides, facts, figures and opinions given by farmers all over the country. Now, remember, this book is **free** for the asking and we will send it to you together with a free sample of the oats or, better still, enclose 10c to cover packing and postage, and we will send you an extra big sample packet, or for 25c we will send you a triple size and for 50c a packet three times the size of the 25c packet. In addition to this, after you have had a chance to examine the sample oats, if they suit you, as I know they will, you can return the empty packets to us and we will accept them the same as cash in part payment on any future orders you may send in. Can you beat this offer? Never

Feed Your Old Oats to the Hogs

Better feed your old oats to hogs or the horses, or sell them. You can afford to do it when you stop to figure up the net results between our seed and ordinary seed. For instance, which is cheaper—Genuine Imported Regenerated Swedish Select Seed Oats that germinate nearly 100 per cent—every oat sprouting—Fresh, Hardy, Full of Life and Vitality—or oats that are half hulls full of weaklings, that plainly prove they are inferior and run out? Our thoroughbred Imported Canadian oats cost a little more than common seed at the start, but if you pay twice the price and receive common seed for nothing, our oats would be cheaper and bring in the most profit. It's net results that count. Here's the proof

J. E. Andrews, Dassel, Minn., writes: "Yielded 105 bu to acre" Oscar Kling, Alamosa, Colo. writes: "Yielded 141 bu to acre" H Hendrick, Roanoke, Ill., writes: "Got 95 bu. from one acre" A J Barber, Clinton, N. Y., writes: "Galloway, you are right. Last spring I bought some seed oats of you. Just threshed. Yielded 80 bu. per acre."

Write For New Free Oats Book

We'll tell you how to put your oats growing back on a money making basis—Discard your old in-bred seed oats and start your crop this year with our Regenerated Swedish Select Seed Oats. They'll make you big money.

You can raise 75 to 140 bushels to the acre with our seed. Imported direct from Canada. Extra fine. Send for free sample. It speaks for itself. Our customers who bought from us last year raised from 75 to 140 bushels to the acre against one-eighth to one-half as much from their old seed, which proves our statement that farmers need a change of seed oats in this country.

We specialize on extra fine Seed Oats on our big Canadian Farm—new clean land—and grow the Genuine Regenerated Swedish Select Oats which have broken all records. Specially bred to suit climatic conditions in the U. S. Matures from 12 to 15 days earlier than other kinds. Extra large white berry. Thin husk. Stiff straw. Tremendous yielder. Rich in protein, and just the oat you have been looking for.

Why not start a seed patch on your farm this year? It has paid others big. It will pay you. Write us early. The demand for our seed is tremendous. Last year we had to return orders we could not fill. Write early. Demand tremendous. Supply limited.

Address WM. GALLOWAY, Pres., Seed Oats Specialists

Galloway Bros.-Bowman Company Box 102, WATERLOO, IOWA

Pure Bred Seed Corn

Picked in September, sure growing, big yielding, Reid's Yellow Dent, Johnson County White, Leaming, Improved Silvermine, and Bloody Butcher, grown by us on Sunnyside Seed Farm which we own and operate ourselves. Send today for the free corn book giving full particulars, prices, etc.

McGREER BROS., COBURG, IOWA.

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Yields 140 Bu. to the Acre Two Splendid New Varieties

Wonder of the age. Big Money Growing New Oats from our Imported Canada Grown Seed. Extra Fine. Send for Free Samples and 76-page Catalog giving full particulars. Write now and save money.

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How to grow Alfalfa, how to feed it, how to harvest and care for it. Full information for corn belt farmers who wish to grow this most profitable hay crop will be sent free on application. Also a sample of our extra choice high grade seed.

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HARDY TREES & PLANTS

At 1/2 Agent's Prices
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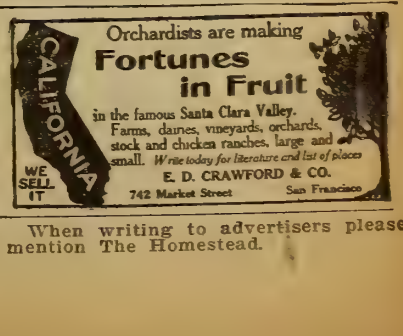
Strand's Nursery, Box 30, Taylors Falls, Minn.



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Galloway wants you as his guest at Waterloo—COME! Jump on the train and come—quick—spend at least a day or two—stay a week if you like—go through the great Galloway Factories and see for yourself how and why Galloway saves his Farmer Friends big money on the best Engines, Manure Spreaders and Cream Separators.

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Everything free—no expense. From the moment you get off the car at Galloway Station I foot the bills—you're visiting me. Stop at the $60,000 Agricultural Club built for the Farmers. Splendid meals; music; plenty of good company—over 500 of my farmer friends here last week!

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Just come and look around—enjoy yourself to the limit—but remember you're under no obligation to buy any Galloway goods—not the slightest. I'll show you the finest chain of factories you ever saw, explain everything—give you my lowest special factory-to-farm, one-small-profit prices. If you see a big bargain and want it, all right—if not, all right. Just suit yourself!

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MORE POTATOES PER ACRE

Think of finding one to eleven $5 bills in the furrow, on every acre you plant. It's been done many times. Plant the spaces you skip, sell the potatoes, and you've got the money. No extra land, no extra work. It costs no more to prepare ground, fertilize cultivate, spray and dig a perfect stand

IRON AGE (Improved Robbins) **Potato Planter**

This machine soon pays for itself and yet puts real money into your pocket. One seed piece in every space and one only. Uniform spacing. No injury to seed. Ask your dealer to show it and write us for free booklet, *"100 per cent Potato Planting."* We make full line Potato machines, Garden Tools, Sprayers, etc.

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No Farmer Should Overlook!

"MARQUIS WHEAT"—The Grand Champion Prize winner of the Wheat-family

Captured sweepstakes prizes two years in succession — yields **34 to 40 bushels** per acre. **Earliest maturing** and **best quality** wheat yet discovered. Be the first to grow **"Marquis"** and reap the benefits. We offer the genuine seed to our customers in limited quantities. **Samples free.**

NEW WHITE DANISH OATS—Introduced by the Danish Government, where we procured some of the original seed and have fully acclimated same on our farms. It has averaged **65 bushels** per acre for us and weighs 45 pounds to the bushel. We stake our reputation on this oat and offer the true seed in limited quantities to our customers. **Samples and new Seed Book FREE.**

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PETTY BROS.' PURE-BRED SEED CORN
THE BEST.

9 varieties of yellow, 2 white, grown by us on our own farms. None other for sale. Try Petty's Yellow Dent and our Clay County White. Ried's Yellow Dent and Petty's Early Eclipse are good. All the best lines of field and garden seeds carried in stock. Illustrated catalog. Samples may be seen at 1515 Genesee St., Kansas City Stock Yards. Address
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ST. CHARLES RED COB WHITE CORN
THE BEST CORN FOR ENSILAGE

Grown only in St. Charles county, Mo.; buy it direct and get the genuine article. Write for prices.
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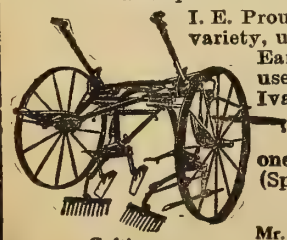
STRAWBERRIES PAY BETTER THAN ANY OTHER CROP. We grow the kind of plants that will pay you to plant. We also grow all other kinds of small fruit plants. Our catalog is different from any other catalog; it will pay you to get it. It is free. Address **F. W. DIXON, HOLTON, KANSAS.**

INCORPORATED 1901 **Towers' System of Surface Culture**

In the season 1912, the Cornbelt enlarges credit to our "right way."

Without commercial fertilizer the **Tower Surface System** gave the results always claimed as shown in prize contests and special efforts. At the Iowa Corn Contests the following prize winners were users of the **TOWER.**



Cultivator

I. E. Proudfit, Altoona, Iowa, **grand sweepstakes,** best 10 ears corn any variety, used both pulverizer and cultivator.
Earl Zeller, Cooper, Iowa, whose **yield** on one acre was **141 bushels,** used the Tower Cultivator.
Ivan Houser, Farmer City, Ill., used the **Tower** Cultivator on 7 acres with **average** yield **117 bushels** per acre—1 acre **122** bushels.
Chester Yarnell, St. James. Minn., used the **Tower Cultivator** on one acre, with yield, **103** bushels.
(Space does not permit mentioning many others.)

The Tower is all that any country needs.

Mr. Farmer:—Your cultivator should bear our name ☞ **"TOWER"** on the tongue. Let us send our free literature.

(One Right Way)

J. D. TOWER & SONS CO., 40th Street, Mendota, Ill.

where breaking is deferred until spring. The earliest vegetables can be grown on a gentle southern slope with an evergreen windbreak from the north. The garden should not be laid out haphazard but a definite plan should be made and followed. In laying out the garden all permanent plants as rhubarb, horseradish, asparagus, etc., should be to one side so as not to interfere with the cultivation of the annual plants and the plowing of the plot. We get some extra early and choice rhubarb by placing a headless barrel over a few crowns and piling fresh horse manure about them. In our anxiety to get the garden started early in the spring. We must not forget that the soil must be thoroughly prepared and warmed before putting in the plants and seeds. If the soil is improperly prepared the plants will never make satisfactory growth while if the bed is ideal the growth will be quick and good. I prefer manure to all other fertilizers as it not only restores the food elements to the soil, but also supplies humus which greatly improves the mechanincal texture of the soil and enables it to catch and retain more moisture. I like to fertilize heavily in the fall before plowing and give a light top dressing in the spring again when preparing the seed bed. The top dressing is best applied with a spreading machine and the fine bits are easily worked into the surface when harrowing in the spring. The best manure on the place should be used for the garden as the soil must be very rich for many of the plants are gross feeders and on many plots two crops will be harvested during the season.

Best results cannot be realized from the garden without a hotbed and no farm should be without at least one. They are inexpensive and a great aid in starting seedlings for later transplanting. Peas are the earliest plants that can be started outside and can be planted late in March. The early smooth varieties should be used. When the seeds for peas are sown outside seeds for celery, tomato, pepper, lettuce, parsley, eggplant, early cabbage and early cauliflower should be started in the hotbed to be ready for transplanting at the proper time. Active outside work does not begin until April when onion, cress, kohrabi, beet, carrot, radish, parsnip, turnip, squash, potato and many other things can be started. We do not make all of our seasons' sowing at one time, but put in a little of each kind at intervals of two weeks thus keeping up a succession. It is best to arrange the crops in rows rather than beds for there is much less work in cultivation and less waste space in the garden. All cultivation that can be done by horse and for the smaller vegetables I find the wheel hoe a very efficient and useful implement. Other implements which I find very useful are the common hand hoe, onion hoe, hand dibble and weed hook. Of course, the spade and hand rake should not be left out. As soon as a crop is harvested I have another to take its place. Thus, after the early peas and beans are harvested celery plants are set in their place. Sometimes I follow the peas with spinach. Early cabbage is followed by late peas or turnips and early potatoes are followed by late cabbage. Onion sets, radishes or lettuce can be followed by celery or some such crop. Before digging the early potatoes late corn can be started between the rows. Every year we aim to grow all the vegetables we think we can possibly use of our favorite kinds and a few trial specimens of something new to us. Very often we are disappointed, but then again we often find something very good and at any rate we cannot lose much since our first venture is always small. If a crop matures too late for another to take its place we sow crimson clover to turn under for green manure thus helping to keep the soil supplied with humus and fertilizing elements.

Again, I say that if properly cared for the garden is a very paying proposition, but it requires planning and work. The work is often of a nature that is very beneficial for the children to perform. In any case cultivation must be kept up and after the crops get started they must be watched for insect and disease enemies and spraying done in time.

C. J. Griffing.

WHAT KIND OF CHERRIES AND PLUMS TO GROW.

A subscriber asks what varieties of plums and cherries are the best for market, such as can be grown successfully along the northern line of fruit growing.

We understand that this subscriber proposes to grow these fruits for market in the hope of making some profit from them. When a man invests his time, his land, and a certain cash outlay he needs to be pretty certain of his venture. He wants above all things to be sure that his selected varieties are the surest, and that his market demand is steady and reliable

The best location for such an enterprise is close to a line of road running north into the fruitless lands. The direct line is an advantage because you may ship 200 miles direct, cheaper than you can send fifty miles when you have to make a change half way. We know of a man who has shipped the Wild Goose plum in great quantities to a town in north Minnesota, and has made it pay. The fact which makes this variety safe and desirable is this, it is so early that it will not have to compete with the heavy crop which comes later in all good plum years. We would advise him to plant this one, and for the same reason he had best plant the Early Richmond cherry. You may be sure there are dozens of towns in the north where cherries are rarely seen for sale, and there are young people by the score and hundreds who actually never saw the fruit. Both plums and cherries for this market should be boxed and shipped in cases. The expense of growing them is light, after the trees are once started, and the selling price to the consumer will be chiefly the express charges.

The fruits in that market can be sold readily at fifteen cents per box, and after paying the shipping charges and allowing the retailer a reasonable price there should be a comfortable margin for the grower, over and above the picking and packing cost. And bear in mind that this northern market may be developed, indefinitely. There is absolutely no danger of your sending them more fruit than they can use.

If one would make a specialty of northern marketing, the two varieties named, planted in large quantities, are the best he can do.

When it comes to planting plums for the general local market, in competition with all the great varieties now grown and offered, select for size and quality, and you do better to have but few varieties, say two. The advantage is this, your packages will be uniform, made up of one variety only. Mixed packages will not sell as well. If you select two good sorts you can make them cover the season, one eary, and one late.

STARTING EARLY PLANTS IN HOTBEDS HEATED BY FIRE.

To the Editor of The Homestead:

Mr. Nipper, of Johnson county, Ill., has built up quite an extensive and remunerative trade by growing a variety of early plants in hotbeds. Thousands of these plants are sold to farmers and gardeners who do not care to operate a hotbed themselves. Mr. Nipper is a successful gardener himself and owes his success to knowing how to arrange and operate his hotbeds in order to secure the best results.

He selects a southern slope with perfect drainage and builds his hotbeds running from east to west so that the plants will get all the sunshine possible. The beds are seventy-five feet in length and of a width to suit the length of regular hotbed sashes.

Beginning, the furnace or fire box is dug to the depth of two and one-half feet gradually sloping the ground upward to about six inches deep. The flues are then dug, running lengthwise of the bed. These are six inches deep and eight inches wide, leaving a strip of earth between about three feet in width. Flat rock two or three inches thick are then placed over these flues and over this a layer of clay to fill up any crevices which may exist between them. Such a hotbed is provided with chimneys made of boards eight inches wide and five feet in length which are placed at the opposite end of bed from furnace where the flues terminate. Either coal or wood may be used for heating purposes. A frame of boards is then made beginning with the back wall which is one and one-half feet high and the front wall six inches lower to give sufficient slope to the sash. This makes it convenient when ventilation is necessary as the slope will allow the sash to slide down easily. This frame is nailed to stakes which are driven in the ground outside of bed and banked up outside to prevent surface water from running in.

Rich soil is filled in the frame to the depth of six or eight inches and over this a layer of well-rotted stable manure (fresh manure is never used in hotbeds which are heated by fire) which is well mixed with the soil underneath. Strips are nailed inside of back and lower boards of frame the entire length of the bed on which the ends of the sash bars rest and the sashes are moved when ventilation is necessary. A thermometer is placed about five feet back from the furnace in an upright position in the seed bed to the depth of two or three inches.

Mr. Nipper begins heating his hotbeds about ten days before the seeds

SEEDS

SEEDS SEEDS

The kind your grandfather planted

KNOWN FAVORABLY FOR 129 YEARS,

A long time in any business

Send us your name and address, mention this paper, and we will send you, free of charge, one

10c Packet of

LANDRETH'S

RED ROCK TOMATO

and our new 1913 Seed Catalogue

D. Landreth Seed Company,
Bristol, Pennsylvania,

SeedCorn

That Will Make Good

Sold on a guarantee that you will know is good before you order. You take absolutely no chances, this is a strong statement, but it will only cost you one cent for a postal card to prove it for yourself. Don't buy until you get our catalog. Write today.

Vermillion Seed House,
Vermillion, South Dakota

CLOVER

OUR "PURITY BRANDS" of red clover, timothy, alfalfa, alsyke and other farm seeds average nearly 100 per cent pure. All guaranteed to pass severest tests of your State Agri. College. We have the best cleaning plant in Iowa and for more than 20 years our seeds have been the standard of purity. Buy our hardy northern variety. **The Adams Seed Company, Box 61, Decorah, Iowa.**

5,000 BUSHELS SEED CORN

From seed corn center of the world. Reid's Yellow Dent, Silver Mine, White Cap Yellow, Legal Tender, Blair Yellow, Nebraska White Prize, Pride of the North, Blair White. Send for free catalogue.

AYE BROS., Blair, Neb.

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SHULTZ GRASS SEEDS

Our Red Top grass seed is the best you can buy. We also handle Cowpeas, Millet, Cane, Timothy, Blue Grass, Alfalfa Red Clover, Alsike and Sweet Clover. Send for sample prices. Address **Shultz Seed Company, Olney, Illinois.**

SEEDS.

Fire-dried **SEED CORN** husked before the frost, dried on independent seed ear racks with air and steam heat. Sure to grow because germ is preserved. Also Clover, Alfalfa Oats, Rye and Garden Seeds. Write at once for **FREE CATALOG** and receive **FREE SOUVENIR.** Address

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Kherson Oats.

DOES NOT RUST OR LODGE

Recommended by experiment station and the best farmers. Yield 112 bus. per acre. We also have **Swedish Select, White Shonen, Mammoth Cluster and Danish Side Oats, Seed Corn, Grass and Garden Seeds, and Pure-bred Poultry. Send For Free Catalog.**

AYE BROS., BLAIR, NEBRASKA
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SEED CORN

My famous high yielding strains, bred for high yield, strong stalks, freedom from barren stalks; 10 to 40 bushels per acre increased yield assured if you plant my seed. Every ear grown on my farms. Selected in early fall and dried on rack. Practically 100 per cent strong, every test. Get my corn booklet No. 3, describing my work with corn. C. Ray Moore, Box 33, Kellerton, Ia. "The man who does things with corn."

SEED OATS

Regenerated Swedish Select from seed bought direct from the introducers, The Garton-Cooper Seed Company. Latest improved strain. Recleaned and shipped in new 2-bu. bags. Prices: 2 to 10 bu., 85c per bu.; 10 bu. or over, 75c per bu. Address **HENRY MEISSNER, LEIGHTON, IOWA**

are sown. When the bed is sufficiently warm, about 90 degrees at first the drill rows are marked off crosswise of the bed four inches apart and the seed sown thickly and covered lightly. After the seed bed has been heated to 90 degrees and the seed sown the heat need not be so great except when the weather is very severe. The fire is regulated according to the weather. On real cold days and frosty nights the beds are covered with straw, which is removed when the weather moderates and is sunshiny again. Mr. Nipper begins operations about the first of February as he wishes the seed for early plants to be sown by February 14th at the latest.

Such a hotbed as above described will last four years without any other labor except to replenish the soil every alternate year. The cost of building will not exceed $12 minus the glass sashes. Mr. Nipper makes a specialty of growing cabbage, tomato and pepper plants. Besides many other plants are started in these hotbeds which are transplanted until the season arrives for setting them in the garden or field. J. T. McCoy.

PRUNING APPLE TREES.

If your apple trees have been started right in the nursery, you will have, when first planted, one straight stem with a few small side branches. No nurseryman who understands his business will send out trees, with bad forks, double stems of nearly the same size. But if you have such promptly cut one of them.

As the tree grows the ideal aim should be to maintain the same symmetrical proportions, always a main stem, and smaller side branches. To maintain this relation of main stem to side branches requires great watchfulness, and what is called thumb pruning. That is pinching off the unneeded shoots while they are still small. This is the easier way of pruning, but it requires care, and a keeping in mind, of the proper shape of tree when it is developed.

But June, when this thumb pruning should be done, is a busy month, and it is usually neglected. This would not be so bad, if we would make a business of trimming trees once a year. But we are too busy for that, even, and we wake up after three or four years of neglect to find that our trees are in bad shape. Fortunately our apple trees will stand a vast amount of abuse and neglect, and still recover and be profitable. In trimming such a neglected tree, half of the top should be removed. Nature, left to herself, will grow twice as much wood as is needed for good fruit. The necessity of having plenty of bearing surface is so important that nature overdoes it. The best time for this trimming is in October or November, for that is the time of your comparative leisure, and the leaves having dropped, you can see perfectly the shape of your tree. In the first place, cut sparingly upon the south side of the tree. Encourage the top to grow upon that side, for as a rule our trees incline to lean to the northeast, and you need the top upon the southwest to shade the body of the tree from the warm spring sun.

Then whenever two branches cross remove one of them. And where a crotch has been formed which in time would split down, to the ruin of your tree, remove one of the stems. This is a method of life insurance for your tree. Having done this much, step back and study the tree to see if it is symmetrical. You will note perhaps, that some branches are too long. If so clip the ends. Again you will see that in places the top is still too thick. There are two branches where there should be but one. Remove the weaker of the two. Make the top loose and open so that the sun can reach every part. The principle to consider is this: You cannot have good apples unless the sun can reach them to give them color and flavor.

The tools to use in this work may vary, but a small, sharp saw is very convenient. And a good heavy jackknife in good condition will fill the bill. Some recommend a chisel and mallet, and a hatchet, while a rough implement for work requiring care, is sometimes used. But whatever the tools you may use, make clean cuts, close to the trunk, and paint every wound which is a half inch or more in diameter.

A liquid grafting wax or a thin paint of white lead will do. This application will not only prevent the bleeding, but will prevent the checking when the hot sun strikes the cut. This cracking open of the wood admits water, and when water is absorbed rotting soon begins, and your tree is weakened by a rot which soon reaches the heart. But if the grafting wax is applied new bark will form over the cut before rot begins.

INTENSIVE ONION CULTURE.

To the Editor of The Homestead:

As different localities will call for different methods of farming and different crops to be raised, I do not think it best to lay down any iron-bound rule for any man to follow. What I want to impress upon the mind of the reader is the importance of intensive farming, and the profit as compared with extensive farming.

Three years ago I tried an experiment with one-fourth acre of Red Clove onion. I selected what I considered the best onion land I had. I had been raising these onions many years, but thought I would see what could be done on a small piece of land properly handled. I prepared my land in the fall of the year, prepared it well too, and planted my onions as they should be. I planted the cloves, as they make onions, and the onions make cloves.

Early the next spring when the ground was in good condition for work I began to cultivate them, and gave them what I considered the very best of cultivation for the development of the bulbs, and when the weather began to get dry I supplied the needed moisture from a near-by stream. When gathering time came I was pleased to gather from that one-fourth acre, 250 bushels, of nice marketable onions, and sold them to a buyer for $1 per bushel.

After I paid all expenses, including everything to make the crop and market it, I had left $125. This, however, was not extremely large, but a good yield. The following figures will give some idea of the cost of producing a crop, or as near as I can estimate it:

Plowing and preparing the land which required several times of disking, harrowing, dragging, etc., counting man and team at $3 per day, four days, $12; planting the crop, hiring help at $1 and $1.50 per day, $25; cultivating the crop, which was very great, $50; harvesting and housing, $20; marketing the crop, $18; total amount, everything considered, $125. Received for the crop of 250 bushels, at $1 per bushel, $250; paid out for labor of all kinds, $125; balance, $125.

This I consider is a little above an average for such crops, but I was trying to see what I could do with a small area of land.

I find from several different trials with different things that it is much more profitable to have a little area well tilled than to go over a large area and not thoroughly cultivate it.

Of course, onions might not suit every farmer, but there is an endless chain of things produced on the farm that will bring handsome profits when properly handled. I find one of the greatest secrets of success lies in being able to find a good market, otherwise the best stuff would become profitless

I would advise the reader to decide on what you want to raise and then get all the information that is possible and then try to profit by same, I have found that the knowledge of what to do, how to do it and then doing that which is best is the secret of success on the farm, large or small. Subscriber.

TREATMENT OF POTATO SCAB.

The disease known as scab in potatoes causes a heavy annual loss to the farmers of the corn belt. The disease remains in the ground from year to year so that if the same soil is used the second year for potato growing even the planting of scab-free seed will not prevent the crop from being diseased. It is a well-known fact that fresh manure contributes to the development of this disease and because of this old manures are recommended for the potato ground.

Treating potatoes to destroy scab

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FIVE BEST Swedish Select and Kherson, bred for heavy yield and strong straw. Also **SEED CORN** Four of the very best varieties, all carefully grown and selected. Also other farm and garden seeds. Write for prices today. Mention The Homestead.

FRANK J. RIST, Humboldt, Nebraska

ALFALFA $9.75 Per bu.

Best Non-Irrigated Seed—99.6% Pure

95% Germination absolutely guaranteed. No seed better. We sell good seed for $8.00. Also have Turkestan alfalfa. Write now for free samples and save money. Our 76-page book sent Free, giving valuable information on growing alfalfa. Write today.
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FOR 40 years we have specialized on strawberry plants, and can furnish most any variety in any quantity desired at money-saving prices. All plants guaranteed. Send for money-saving list and full description. **Geo. W. Bridgman Nursery Co.,** Dept. A, Benton Harbor, Michigan.

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95 to 100 per cent—Paradise corn; germination guaranteed. Test the corn yourself 10 days. If not satisfied return at my expense and I will refund money. This corn is an early corn. It never fails to mature. It is a deep yellow, deep heavy grain, a little rough. I will send sample to any address, $2.50 per bu. **John Paradise,** Barnes City, Iowa.

SEED CORN

WE make a specialty of Reid's Yellow Dent corn. Standard type. Bred to yield. Picked early and dried on racks. Germination perfect. Send for catalog and prices. **Sommer Bros., Pekin, Illinois.**

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C. & N. W. main line.

250 Strawberry Plants $1

OR 100 evergreen seedlings $1.00, or 75 raspberry plants $1.00. Write for catalog and premium list. Address West Side Nursery, Box 1, Postville, Iowa.

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Reg. White Bonanza, National, Emperor William oats, Oderbrucker barley, Ida County Yellow Dent corn. Price list and samples free. Address **ALLEN JOSLIN, Holstein, Iowa.**

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BEST oats to grow, price 60c per bu., bags free. Also prize-winning Reid's Y. D. seed corn. Ask for free booklet on oats growing. Cloverdale Farm, South Amana, Ia.

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and Millet seed that will grow, at farmers' prices.
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REID'S Yellow Dent, Boone County White. Individual ear test. Shipped, crated, at $3.25 per bushel. **E. S. DYAS & SONS, Bellevue, Iowa.**

WANTED--RED CLOVER

Alsyke, Timothy, Mixed Alsyke and Timothy, etc. Send samples stating quantity. The Adams Seed Company, Box 18, Decorah, Iowa.

SEED CORN

Hecker's Improved Red. High yield and early maturity. Happy Home Farm, Amboy, Ill.

SEED OATS, Reg. Swedish Select. CLOVER, Med. Red. Ask for samples and prices. Address H. D. CLORE, Lucas, Iowa.

REGENERATED Swedish Select oats. Recleaned 50c bu. Mandscheuri barley 75c. Clover and Timothy seed. Samples. B. S. Strayer, R. 1, Hudson, Ia.

Kherson Seed Oats The best early variety for upland seeding; great yielder, fine to seed grass with. ABSOLUTELY FREE FROM SMUT, clean, bright seed, recleaned, high test. Also Swedish Select, a widely advertised variety, but I recommend Kherson as best corn belt variety. Get my Booklet No. 3, describing these and other farm seeds. C. Ray Moore, Box 33, Kellerton, Ia. "The man who does things with corn."

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Prices bound to be higher later. Buy before advance and save money. Write today for special low price and free samples of our Pure Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Have alfalfa, alsike, sweet clover, all kinds grass seed. Write us now.
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SEED CORN HOME GROWN—direct from farm to you—not elevator seed. We are growers and send you only pure fresh seed of highest germination. Buy direct and save all middlemen's profits. Send for FREE book and FREE samples.
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Seed Potatoes Red River Ohios. Extra selected seed corn, Reid's Y. D. Sample ear 15c. Clover and timothy seed, Also timothy and clover mixed, one-fifth R. clover, $4.00 a bushel. Sample and circular free. THE ALL GROW SEED HOUSE, Knoxville, Iowa.

CLOVER, TIMOTHY MIXED Timothy and Alsike, Alfalfa, Ky. Blue Grass, Dwarf Essex Rape, Seed Flax, Barley, and Oats. SEED CORN: Silver King and Early Yellow Dent. Special prices for early orders. Write today. The Hofler Seed Co., Nora Springs, Iowa.

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Bees for the Farm Need little attention and pay big profits If you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.
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Two Machines in One.

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Get the Newton Catalog Write us today and get circular telling all about this simple, practical, big-capacity corn grader and grain grader and cleaner—two machines in one. It tells all about its many points of advantage over other machines.

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FARM SEEDS Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, Seed Corn, Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. Large illustrated catalog of great value to farmers free. Mention this paper.
Iowa Seed Co., Dept. D Des Moines, Iowa.

BOYS' AND GIRLS' CLUBS.

By H. A. Crafts.

IN ORDER to awaken an interest and create an enthusiasm among the school children in the study of agriculture the California schools are adopting the very commendable method of organizing boys' and girls' clubs.

In organizing these clubs the members agree to study together about agriculture and domestic art, make gardens for home and school, and try experiments for the improvement of crops.

The chief purpose of these boys' and girls' clubs are stated as follows:

First—To afford the teacher a simple and easy method of teaching practical agriculture and domestic arts in the best possible way, namely, by actual work in growing plants, rearing animals or preparing articles of food or clothing.

Second—To show that there is more is a simple operation requiring only that the potatoes be immersed for a period of two hours in a mixture of one pint of formalin to fifteen gallons of water. Considerable latitude may be allowed for the ingenuity of the average man in this matter. A very good plan, if a large barrel or hogshead is available, is to place the potatoes in gunny sacks and immerse them for the length of time mentioned so that the sacks are entirely covered by the water-formalin mixture. We have known instances where feed baskets were used for the purpose in which case it is a simple matter to pour off the solution when the seed has been treated.

It should be remembered that formalin is not a dangerous substance to handle, because when diluted with water in the proportion of one pint to fifteen gallons it is not poisonous, though, of course, in the pure state it must be remembered that formalin is a powerful disinfectant. The use of a diluted solution in feed baskets in no way poisons the baskets.

in the soil than the farmer has gotten out of it; to inspire boy's with a love of the land, by showing them how they can get wealth out of it, and thus be helpful to the family and the neighborhood; to inspire girls with an appreciation of domestic arts by helping them to discover what they themselves can do in bettering their surroundings.

Third—To give both boys and girls a definite, worthy purpose and to stimulate friendly rivalry among them.

As to ways and means in getting the clubs started, and rendering them popular among the pupils, it is suggested that the principal special supervisor or superintendent will only be too willing to arrange meetings and render assistance in the work of organizing the clubs. The teacher will also delight to be a learner in common with the pupils while leading in the making of plans for study, contests or exhibitions.

The co-operation of local grangers, farmers' unions, farmers' clubs, chambers of commerce or boards of trade may also be readily enlisted in furthering the work.

Further assistance is to be secured from instructors in agriculture in normal schools, farm schools and high schools.

The College of Agriculture, University of California, will answer all inquiries lodged therein in reference to the formation of clubs and institution of courses of study, while the secretary of agriculture, Washington, D. C. will send, free of cost valuable pamphlets, farmer's bulletins, ets., that may be made of good use in the club studies and club activities.

Boys' and girls' school agricultural clubs are advised in the preparation of their work to choose subjects which will be of interest to the greatest number of members. Separate clubs will be organized in cases of a divergence of interest between boys and girls. The latter will have their own clubs for the study of cooking, sewing, etc., while exclusively boys' clubs will be organized for the special study of such crops as potatoes, wheat or cotton.

At the same time many clubs will be co-educational, such for instance as will study the raising of sweet peas, trees, poultry or butter making.

These lines will be made to lead up to contests and exhibitions.

The following plan has been suggested for the getting up of contests:

Class A, for boys—1st, crop growing—potatoes, wheat, corn, lima beans, sugar beets and cotton; 2d, hog raising.

Class B, for girls—1st, cooking; 2d, sewing; 3d, canning.

Class C, for both boys and girls—1st, sweet pea growing, poultry raising, butter making, tree growing.

From this the pupils may go on to a wider class of subjects, such as squab-raising, rabbit-raising, bee-keeping, rose-culture, chrysanthemum growing, etc.

It is maintained that a school, or a town, or a group of schools or towns through the agency of their clubs should hold exhibitions, in which they may display the products grown on articles cooked, sewed or canned, certificates and badges to be awarded to all who excel in their exhibits.

Two grades or standards of excellence will be recognized by both certificates and badges, for those achieving first grade, and only the certificate for those attaining second grade, individual cash prizes are depreciated.

Some suitable reward to the club collectively will be made for the largest number of individual certificates secured, as an incentive to good team work and community interest.

Agricultural education is receiving due recognition even in Finland. In 1910 over a hundred institutions in that country received government aid for agricultural instruction. Among these institutions were six itinerant farm schools extending through two months; two farm schools with two winter courses and sixteen with one winter course and twelve public high schools offering agricultural instruction.

Ask your neighbor to subscribe for The Homestead.

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EVERY EAR GROWN ON MY SUNKIST FARMS
Every Ear Selected in Early Fall and Dried on A Rack
Practically 100% STRONG sprouts, both root and stem sprouts starting vigorously at low temperatures and showing ability to withstand cold rains and unfavorable conditions at planting time.
Every bushel sold on ten days' approval—If it doesn't please in every respect, ship it back at my expense and get your money back. I think it's the best seed to be sold this year—but you can be judge.
Get My Free Booklet No. 3, telling how I breed, care for and sell this Different seed—my famous High-Yielding Strain. Address today
C. RAY MOORE, Box 33, KELLERTON, IOWA,
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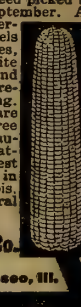

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do all of the sowing, hoeing, cultivating, weeding, furrowing, ridging, etc., in any garden, with better results, far less work and some real pleasure for the operator. $3 or more combinations at $2.50 to $12.00. Ask your dealer about them and write us for new booklet, "Gardening with Modern Tools" also copy of our paper "Iron Age Farm and Garden News"—both are free.
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MAKES BIG PAYING CROPS.
Insist on Having Pepseeco Brand.
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ALFALFA TIMOTHY MILLET — Ky. Blue Grass CLOVER CANE
"CREATORS OF CROPS"
Your dealer should be able to supply you with "PEPSEECO" Brand Seeds. He knows they are the highest quality money can buy. Carefully selected, thoroughly cleaned and rigidly tested. Get larger and better crops. Plant them this year.
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APPLE TREES FOR TESTING FREE

Our "BLIZZARD BELT," Foster mother root Apple Grafts make vigorous, long lived, heavily fruiting trees, because they grow their own hardy roots. To prove their worth we will send you 2 Grafts (rooted ready for planting) FREE, or if you send 10c for packing, will send you six grafts. Write today.
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You can't look at *any* Silo without mentally comparing it with the Indiana Silo. You can't read about the value of silos *in general* without remembering some *special* advantage possessed by the Indiana Silo exclusively. For example, there is the method by which the two-piece staves are joined in the

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Look at the picture. Notice the air-tight, self-draining, all-wood mortised joint. That patented joint has revolutionized the whole business of building silos by making it possible to construct a perfectly solid stave silo of any desired height. When put together with a little white lead at these joints, a two-piece stave Indiana Silo is as good as if it were made of one-piece staves, and very much less expensive. There is no metal at these joints to become corroded by the acids and no outside moisture can collect in them to rot the wood. This joint adds years to the life of your silo and many dollars to its value, as proven by experience.

When you buy an Indiana Silo you not only secure this scientific and permanent form of construction but you know that it will go up easily and will stay up for years and years without repairs.

Order now—today—on our easy buying plan.

WRITE today for our catalogue and a free copy of the book "Silo Profits", which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. And ask us for the name of our representative in your locality.

"You *buy* an Indiana Silo—but it *pays* for itself."

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The first great big reason is that it's the only really high-grade separator sold at a reasonable price. Separators have been costing too much money—no doubt about it.

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The Beatrice established a new order of things. The price of the very largest size Beatrice, capacity 950 to 1000 pounds, is only $75.

I bought that size—my saving was $35. Smaller sizes cost $55 and $65. Why should I or any other dairyman pay more than the Beatrice price?

We would get no more for our money.

The Beatrice has everything that goes to make a cream separator valuable. Easy running, durable, a close skimmer, remarkably easy to clean, gets thick, heavy cream.

I'll have something to say on each of these points in later talks. Watch for them. Price is only my starter. In the meantime, remember how I saved $35.

Save $25 to $40

Farmer Onswon is right. Ask the Beatrice dealer. If none near you, write us for catalog and particulars. Address nearest office.

BEATRICE CREAMERY COMPANY

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40 BULLS 40

PURE-BRED registered Holstein bull calves, from 1 to 12 months old. An extra choice lot, most of them sired by our great herd bulls, and many of them out of high record cows. Our prices are bedrock. We are short of room and must sell at least 20 of them in the near future. Send for price list.

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DAIRY

COMPARING THE MILKING MACHINE WITH HAND METHODS.

As the result of experimental work carried on for five years at the New York experiment station, the conclusion was reached that machine milking if properly done does not influence the flow of milk to any extent capable of measurement. In a bulletin from that section it is pointed out that not every good hand milker would be able to handle a machine with equal success; but no remarkable qualities are necessary for efficient machine management. During the tests of the B-L-K machines at the station, six men have run them for periods varying from three months to three years and none of them has failed to do fairly satisfactory work with the milkers. These men probably represent fairly well the better class of farm workmen; and none of them was selected for any special ability to operate machinery. The essential qualities in running a milking machine are merely carefulness, willingness to follow instructions and reasonable intelligence.

In station work it has been necessary to weigh and record each cow's milk separately, so that it has been inadvisable for one man to handle more than two machines, each milking two cows, and the operations have undoubtedly been done a little more carefully and a little slower than would be necessary in a commercial dairy. The data given for labor are therefore very conservative. They are based on accurate records of the time consumed by each step of the afternoon milking on 144 days in 1911, and on records of the time required each day for a month in washing and otherwise completing the cleaning of the machines, this last work being done in the dairy building, not at the barn.

Based on the use by one man of two machines in milking fifteen cows, the time consumed each day would be as follows:

Preparing machines night and morning	6.72 minutes
Milking 30 cows (15 night and morning)	88.20 minutes
Rinsing machines at barn night and morning	15.36 minutes
Cleaning teat-cups and tubes (done weekly)	2.61 minutes
Washing remaining parts of machines	8.13 minutes
Total time required to milk 30 cows	121.02 minutes
Average time required to milk one cow	4.034 minutes

Under commercial conditions this time could be decidedly lessened; and the advantage would increase as the number of cows milked increased. Fifteen is probably as small a number as will be found profitable in connection with present machine milking; since with this number of cows approximately one-third of the time is spent in operations other than the actual milking. As the number of cows increased this extra consumption of time would become relatively less and the average time required for each cow would decrease. It is possible, also, where detailed records are not kept, that one man could handle more than two machines and thereby reduce the labor cost.

As station figures show that it takes seven minutes for a hand milker to milk a cow, record the weight and pour the milk on the cooler, it is evident that the machines do economize labor. As to whether, or under what conditions, their installation would be financialy profitable, data are lacking. Owing to rapid and repeated changes and improvements in the milkers used in these tests and the substitution of new pails and parts, it has been impossible to measure the deterioration of the machines or to get any very definite idea as to the cost of maintenance. Until these data can be secured, possibly not for a long period of time, each herd owner will have to decide for himself whether the saving in labor indicated above will justify him in installing machine milkers.

The station experience proves that such machines, at least the one used by us, can be readily handled by the better grade of farm laborers, that they can be made to produce milk with very satisfactory bacterial counts, that they do not injuriously affect the flow of milk and that they will lessen the amount of human effort necessary to milk cows.

"STRONG" BUTTER.

To the Editor of The Homestead:

The following inquiry has been received from one of your subscribers:

I have three cows, one three years old and one ten years old, both fresh in September, and one ten years old that will be fresh in February. About four weeks ago my butter began to get strong right after churning. I thought it was the milk from the cow that was to be fresh soon, so I quit using her milk and the butter is just the same. At first I fed soft corn on cob, corn fodder, timothy and millet hay and alfalfa hay, giving each cow a big bucketful of corn night and morning. Thinking perhaps the corn might be causing the trouble I fed about half as much for about two weeks to no effect. They have good clean barn and good water, which is heated by a tank heater. I al-

HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B. Young, Prop. Buffalo Center, Ia.

FOR SALE

5 YEARLING GUERNSEY HEIFERS AND 5 TWO-YEAR-OLD GUERNSEY HEIFERS

Part of them bred.

W. W. MARSH, Waterloo, Iowa.

REGISTERED GUERNSEYS

Holstein-Friesians

Cows and heifers, good size, well marked, and all springing. All are tuberculin tested. Will sell singly or in carload lots, and at reduced prices.

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Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

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WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

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THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested

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I HAVE for sale cows and heifers of the most popular producing strains, and at quite reasonable prices. Would also spare a few choice young bulls. 2 mature Shropshire rams, a number of ram lambs at farmer's prices. Geo. S. Redhead, Des Moines, Ia

A valuable Free Book on CLOVER

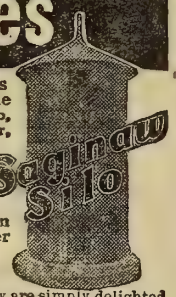
A gold mine of information

We have just published a wonderful new book entitled "Clover, the Great $Cash Money Crop$." This book is truly a most remarkable source of information on the subject of clover raising. For the first time the opinions and experiences of the world's greatest clover authorities and practical growers have been gathered together in printed form. Every question you can think of is fully answered. It tells you how to get a sure "catch" first planting; how to keep clover in the rotation; about clover as a soil enricher; how to handle the crop for hay and seed production; how to grow clover that makes richer feed—that produces more beef and more milk—that puts immediate cash money in your pocket. It explains the cause of clover failures; how to avoid winter killing; how to prevent ground heaving; how to guard against the loss from heat and drought; it tells all about the causes of "clover sickness" and how to deal with it. These and hundreds of other questions are answered, covering sixteen clover varieties, including Red, Mammoth, Crimson, Alsike, Sweet, White, Yellow, Japan, Berseen, Burr, Serradilla, etc.

This book is a gold mine of information to the farmer who is looking for bigger and better results. Ordinarily this book is sold for 35 cents per copy, but for a short time we will mail a free copy, postage prepaid, to the readers of this paper, or until a certain number have been distributed. If you will write at once you will be sure of getting a copy by return mail.

SALLOWAY BROS.-BOWMAN CO., BOX 108 M WATERLOO, IA

4 Amazing Features



The 1913 Saginaw now has four amazing features—the **Patented Angle Steel Rib, the Saginaw Base Anchor, the Saginaw Inner Anchor, the All-Steel Door Frame.** No wonder the Saginaw is as strong as a city sky-scraper. No wonder 587 Saginaws have been sold in a single day. No wonder five big factories are needed to supply the Saginaw demand. Farmers and Stockmen all over the country are simply delighted with the "Saginaw." And you will be, too, when you get our Book which pictures and describes the Saginaw. Remember, the Book is **FREE.** Just send a postal now for Book No. 34 and it will come by **return mail.**

The McClure Co., formerly Farmers Handy Wagon Co.
Saginaw, Mich. Des Moines, Iowa Cairo, Ill.
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Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

Blatchford's Calf Meal Factory
Waukegan, Ill.

How about staying on **top of the mud,** instead of **down in the mud,** this coming year? **Wide tire steel-wheel** trucks will help to do this, and also help to make better roads for your community. Get in the game for **good roads.** Ask for our **free** catalogue of instructions.

HAVANA METAL WHEEL CO., Box 47, HAVANA, ILL.

COOK YOUR FEED and SAVE Half the Cost—with the

PROFIT FARM BOILER

With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also make Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P

D. R. Sperry & Co., Batavia, Ill.

ways wash my cows with warm water before milking. My cream is skimmed by hand and I wash and scald every piece I use. Lately I have been feeding just a few apples and carrots night and morning, but cannot see that they help any.

Without being present during the entire process of preparing the cream and making the butter as well as the keeping of the butter after it is made, it would be very difficult to determine exactly what the cause of the trouble is. It would seem that this man is a careful and painstaking person and apparently is complying with every law of hygiene and sanitation. Sometimes, however, when cows are on dry feed and when the feeds are not properly balanced, especially after the cows have passed half of their lactation period this difficulty is experienced. There is often difficulty in churning the cream also and the cheese maker often complains of the same trouble.

The communication does not state where the cream is kept. It sometimes happens that cream is kept in the kitchen or in the cellar before it is cooled down sufficiently and as milk or cream is very sensitive to odors when warm the butter is affected. Sometimes at this season of the year the cream has to be kept too long before it develops the acidity required that it permits putrefactive bacteria to develop to such a degree that they overcome the desired acid bacteria and leave only undesirable conditions. It is a well-known fact in science that acid bacteria cannot grow in low temperatures, while some of the putrefactive forms can grow and develop bitter and astringent tastes and make the butter smell and taste old.

Without knowing any more about the manner of handling the cream I will venture to make a few suggestions hoping I may be able to help this subscriber out of his difficulty. Set the milk in a cold, clean place as soon as possible after milking. If you used a separator it would be far better. Skim the cream as thick as possible. Then use a good commercial starter so as to get it into the churn as soon as possible. Do not feed the carrots until after milking. If these few precautions do not overcome the difficulty then try feeding a balanced ration. In that case it would be necessary to add two or three pounds of oil meal or cottonseed meal or some other feed rich in protein to balance the feed already being used. However, I think if the above advice is followed in preparing the cream and making the butter the trouble will be eliminated.

O. O. Brewbaker.

CHURNING-TIME "DON'TS."

To the Editor of The Homestead:

Don't churn market butter till the cream is proporly soured.

Don't expect sweet cream to churn as easily as sour; although the quality of the butter will be better.

Don't put cream into the churn till that vessel has been well scalded out; then rinsed copiously with cool water.

Don't put the churn over half full of cream. If it is only one-third full it will give more space for the splashing and agitation of the cream, which is necessary in breaking up and separating the globules of fat.

Don't churn in less than from twenty to thirty minutes, as the fat globules are liable to be injured, and some of them be left in the cream, if the operation is performed too quickly; while the quality of the butter is apt to be affected.

Don't try to churn cream where it is cold enough to froth when agitated. Put the cold cream into the churn, set it into a large vessel of warm water (tub, boiler or large pail) and let this raise the temperature to a proper point for good churning.

Don't attempt to warm cold cream by pouring hot water into it, as this would raise the temperature too suddenly, scalding the cream and making it difficult to churn. At the same time, there would be a loss of butter, and the product would be of a sickly-white color; while its texture would be open and flabby, its taste and appearance more of a greasy nature, the flavor poor.

Don't forget that the working of butter after it begins to gather, is really of more importance than the churning. As soon as the grains of butter become the size of wheat

DE LAVAL CREAM SEPARATORS

TIME TESTED

If a member of your family were dangerously ill you wouldn't think of calling in an inexperienced doctor?

Certainly not! You would call a physician, who had built up a reputation, a man with experience and a successful practice.

Why not use the same care and common sense in your selection of a cream separator?

Every little while you hear of some new cream separator, claiming to be a "world beater" and just as good as the De Laval but a little cheaper.

These "mushroom" machines stay in the limelight only until they are "found wanting" by the users and in a short time drop out of sight.

It takes years of experience to build a "good" cream separator. More than 30 years of experiments and experience have made the De Laval pre-eminently the best machine on the market for the separation of cream from milk.

Even were other concerns not prevented by the De Laval patents from making a machine exactly like the De Laval they could not build as good a machine as the De Laval, because they all lack the De Laval manufacturing experience and organization.

If you buy a De Laval you run no risk of dissatisfaction or loss. It's time tested and time proven. Why experiment? Why take chances with an inferior machine when you KNOW that the De Laval is the BEST MACHINE FOR YOU TO BUY?

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

YOU WILL BE GLAD 730 Times a Year— That You Selected A GREAT WESTERN

Twice a day—730 times a year—for a *lifetime* — you'll be mighty glad you chose a *Great Western* Separator instead of any other.

Whenever neighbors are around while you skim—or when you happen to be at your neighbor's when he is skimming with some other make—you'll feel *proud* of *your* judgment in selecting a *Great Western.* You'll realize then, what Great Western

Quality

means to you. You'll realize what it means in close skimming, easy turning, easy cleaning and in bigger profits from *quality* cream and butter. Let us tell you the facts.

The Great Western *bowl* follows nature's laws by delivering the *cream* from the *top* and the *skim milk* from the bottom. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming COLD milk.

The bowl of the Great Western is self-draining and self-flushing. There are no long tubes, no minute slots, nooks, corners, crevices or ragged edges to hold milk and collect dirt.

The Great Western is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50% to 100% harder than balls others use.

The ball races in the Great Western are tempered so hard that you cannot cut them with a file. That is why the Great Western beats them all for easy running and long service—why it is positively the greatest and undisputed

Value

ever offered in a cream separator. We will arrange to give you any kind of a trial you want on any size Great Western.

Test it yourself on every point, close skimming, ease of turning, ease of cleaning, sanitary construction, quality of cream, quality of butter and every feature that means durability—the most cow profits for the longest time.

Our 5 year guarantee and Security Bond prove our confidence in the Great Western.

Write Us Now

Let us send you our big book on more dairy profits. See how you can make from $10.00 to $15.00 more each year from every cow you milk. See the only separator that follows natural laws. The only separator cleaned in a jiffy. Skims warm or cold milk to a trace.

Write for our fine book today.

Rock Island Plow Co., 1810 Second Avenue Rock Island, Illinois.

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Are your best cows paying all the bills? Every one who takes up testing finds that the majority of his cows are unprofitable. Often those who appear best prove to be the most worthless.

The custom of testing and weighing increases the demand for pure-bred Holsteins The man who tests is the kind of a man who sees the economy of keeping large-yield cows. When a man's dairy education reaches that stage it's a short step to Holsteins.

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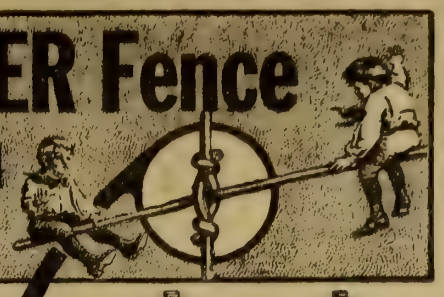
This BETTER Fence
Follows Every Hill and Hollow



THE *swinging joint* allows *Apex Fence* to conform to the roll of the *land*. The upright stays clasp the line wires firmly, yet the line wires swing up or down hill or hollow, while the stays always stand plumb. It is the easiest fence to put up—no buckling or straining, no sagging or lopping. That makes a better fence, and *saves money* on the first cost.

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Many Other Advantages Besides the Swinging Joint

The swinging joint makes Apex Fence the best fence bargain even if it were no better in other ways. But to make every part of the fence as good as the joint, we use only high-grade genuine *Open Hearth Steel—galvanized* by the most thorough and modern process that brains and money have been able to discover—and *guarantee* Apex Fence to *satisfy*.

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Get All Facts Before You Buy!

Don't buy a rod of fence for *any* purpose until you get our booklet. Just tell us about how much fence and what heights you'll need, and when you expect to put it up. Also tell us at what town you buy your fencing. We'll send you our free booklet and important facts, with an interesting proposition. We may have an Apex dealer near where you can see the fence. In any case, you will be supplied with fence promptly at the right price. Address

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PUBLIC SALE 150 Registered Tuberculin-Tested
HOLSTEIN-FRIESIANS
WATERLOO, IOWA, MARCH 18th and 19th

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WATERLOO - - - - - - - - IOWA
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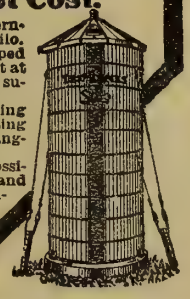
Built for Permanence
First Cost Is the Last Cost.

Creosote dipping adds, according to Government reports, 17 to 20 years of life to the Silo. That is the reason the Des Moines Silo is dipped in creosote. A special dipping plant was built at great cost to add this feature to the already superior construction of the Des Moines Silo.

The creosote penetrates into the wood covering every check and going deep—making the wood absolutely impervious to moisture, thus preventing rot and in a large measure overcoming the shrinkage and swelling due to changing atmospheric condition. It is never necessary to paint the Des Moines.

Des Moines Silos are equipped with spring lugs that overcome the last possibility of the hoops becoming loose. The Des Moines Triple Anchor System and three inside hoops are the best in the world. Positive insurance against damage by wind. Other buildings may go but the Des Moines Silo will stand.

The story of the Des Moines Silo is told in a book that will be sent free.



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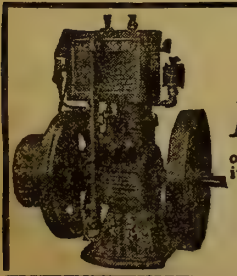

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Holstein Cows and Heifers at Bargain Prices

ON account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a car load. All tuberculin tested and bred to registered bulls. Also few registered bulls ready for service. ROCK BROOK FARM, STA. B, OMAHA, NEB

grains rinse the sides and lid of the churn with cool water, give a few gentle strokes with the dash, let the churn set a few moments; then drain off the milk. Remove the butter from the churn to a clean vessel, work the milk from it with a firm, even pressure (not by long, smearing strokes), rinsing it with a little cool water during the operation.

Don't cheat your customers by oversalting butter in order to make it weigh heavier or kill the strong flavor. Salt it when you start to work the milk from it, putting in enough to make it just a little saltier than is desired, and by the time the milk is all out, it will wash out much of the salt, leaving the butter about the desired taste. There is no set rule for salting butter, as some of it will require more than other. The taste is the only method by which one can ascertain the amount required to the pound. Use only the very best and highest grade dairy salt for seasoning butter. Coarse salt not only settles through the butter in large lumps that are very disagreeable to the taste, but it will not enter the texture of the butter and give it a uniform flavor like the finer dairy salt will.

Subscriber.

HINTS FOR BUTTER MAKING.

Keep the cream thoroughly stirred while ripening

The barrel churn is about the best farm churn.

Strain all the cream into the churn and add the coloring before beginning to churn.

Stop churning when the butter granules form about the size of a pea.

Too much working will make the butter salvy. Work it just enough to get out all water.

A good clean cellar, well ventilated and properly drained is a good place to ripen the cream. It is also a good place for churning.

Poor feeds, weeds and foul water will add a bad flavor to the milk. The hand separator should be used to separate the cream from milk. The milk can be given to hogs or calves while it is sweet and fresh.

BANKERS TO AID FARMERS.

If agriculture does not come to the front in Missouri it will not be the fault of theMissouri Bankers' Association., says The Kansas City Star. More than a thousand bankers in the state will see that bulletins on good farming practice issued by S. M. Jordan, the Pettis county soil expert, reach the farmers in all counties.

The bulletin to be issued by Mr. Jordan will give timely advice on farm management and the handling of crops. The bankers will distribute the literature. A committee of bankers is now polling the newspapers of the state to see how many publishers will print the Jordan bulletin entire.

A bulletin just issued by Mr. Jordan calls attention to the necessity of having clover seed tested, since the indications are that a very large amount of land will be used for clover this year. Clover seed will be tested free of charge in the seed testing laboratory of the Missouri Agricultural College at Columbia, Missouri.

Some samples that have been left at my office have contained from 5 per cent to 20 per cent of other seeds and trash, but this foreign seed, such as foxtail, pepper grass, buckhorn, bracted plantain, timothy, etc., come too high when you are paying clover seed prices for them. If you sow bad clover seed it is your fault.

The Pettis County Farm Bureau was the first of its kind published in Missouri. Mr. Jordan helps the farmers of the county to solve every problem.

Farm bureaus similar to that in Pettis county have been published, or are being established, in a dozen counties in Missouri. It is believed that the county farm bureau with an agricultural adviser in charge represents the long sought method of effectively and surely solving the many problems which confront the rural communities of the United States. The plan started in the South several years ago in order to combat the boll wevil, which was attacking the cotton crop. With some changes it has spread to the Northern agricultural states and is proving effective.

Ask your neighbor to subscribe for The Homestead.

Nets $14.00 per Ton From Ensilage in Champion Silo

C. L. Hurd, Mainright, Okla., bought 140 head of steers at $58 per head. Fed 200 tons of ensilage and $378 worth of cotton seed meal. Sold them for $81 per head, bringing $14 per ton for his ensilage.

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50 bu. of corn per acre at 50c brings $25. One acre of corn ensilage averages about 11 tons, worth $2 per ton. The difference between corn and ensilage pays for a Champion silo, the best in the world, because it has interlocking steel door frame, malleable lugs, steel anchors and inside hoop, etc.

Write for Free Book of Champion Profits Made by Champion Silo Owners

It tells interesting experiences, gives facts and figures, tells all about the Champion and why thousands of farmers find it the best. Write today. Address

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LET THIS SURPRISING ENGINE SOLVE YOUR HELP PROBLEM

Does several men's work—at less than cost of a boy. Surprising, the amount of farm "drudgery" this marvelous little engine will get away with. Separates cream, grinds feed, cuts ensilage, saws wood, shells corn, waters stock, washes buggy—the family clothes—almost anything you want. Handy, practical, easy to operate—a quick starter and steady runner—excess power above rating—convenient, too—with trucks, located anywhere. Fuel—gasoline, kerosene, distillate or gas.

THE T&M Farm Engine

is a REAL ENGINE—sold at far too low a price, considering quality—backed by the nearly 13 years' practical engine experience of a reliable firm—sold on a REAL GUARANTEE, gilt-edge to you and iron-clad to us. Don't struggle with the "hired man problem" this season—when the T & M will attend to it for you. LET US SHOW YOU how this "everlasting," reliable engine (1½ to 20 H. P.) will deliver you more power and greater value in every respect than you pay for. Spring work is coming—write, NOW, for catalog and prices.

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1913 copyrighted edition just off the press. Most complete work on this subject published. Used as text book by many Agricultural Colleges. Gives the facts about Modern Silage Methods—tells just what you want to know. 264 pages—indexed—over 45 illustrations, a vast amount of useful information boiled down for the practical farmer. Tells "How to Make Silage"—"How to Feed Silage"—"How to Build Silos"—"Silage System and Soil Fertility"—"Silage Crops in Semi-Arid Regions." All about "Summer Silos" and the Use of Silage in Beef Production. Ninth Edition now ready. Send for your copy at once. Enclose 10c in coin or postage stamps and mention this paper.

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This new grinder is especially designed to run with a Gasoline Engine

An honest mill sold in an honest way. Try it. No Money down. I trust you—keep it if satisfied, if not, return at my expense. Grinds Ear Corn and all small grains. Write for FREE Catalogue.

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Made from the best of material and shipped on approval. Send for free catalog and price list.

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THE BUTTER BREED

Has merits worth investigating
Let us tell you about this
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WE now offer 30 head of registered females and 8 May Rose bulls, 5 of them ready for service.
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I want to tell you how Belle City won in 10,000 hatch-contests *year after year*—facts about the winners, how they did it and *how you can do it*. I'll give you 1, 2 or 3 months home test, 10 year guarantee, freight prepaid offer and my low price proposition. I'll send you all this information free if you just write me a postal *now* for World's Champion hatching facts.—JIM ROHAN, Pres.

We ship quick from St. Paul, Buffalo, Kansas City or Racine.

Belle City Incubator Co., Box 52 Racine, Wis.

ROUP

Be prepared for this dangerous disease, which is liable to break out in your flock without a moment's warning. Stop it immediately or it will attack every bird and the loss will be frightful.

KELLERSTRASS ROUP REMEDY

Positively cures. Prevents spreading of the disease, besides curing the sick birds. Also cures Canker quickly. Sold under a positive money-back guarantee. If your dealer can't supply you send direct to us for 25c, 50c and $1.00 sizes. FREE—"Kellerstrass Way of Treating Poultry Diseases." The most valuable book ever sent free to poultry raisers. Write for it today.

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QUEEN Incubator

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Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.

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Before buying any kind of an incubator, at any price, from any body, get my 1913 offer on the IDEAL. Last year I broke the record for low price on efficient, dependable incubator. This year I'm going still further.

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When writing, tell me what size incubator you are interested in and I'll send you my **BIG ILLUSTRATED POULTRY BOOK FREE.** Describes Standard Bred Poultry, tells how to become successful and other valuable information. Easily worth $1.00. Because it contains advertising, you get it FREE. Ask for copy.

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Direct from factory. 18 years experience. Safe, sure, simple. Redwood, triple walls, asbestos lined. Copper hot water heating tank, self regulator, automatic ventilation, safety lamp, nursery, tested thermometer. Comes all set up, ready to start. Write for free Catalog and Poultry Book. Address

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and Almanac for 1913 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c.

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POULTRY

SOME FACTS ABOUT BROODING CHICKENS.

To the Editor of The Homestead:

Since the object of incubation is to produce life, it is evident that the prime object of brooding is to preserve life. The object of every brooder offered for sale, however, is not so much to preserve life as it is to favor economical growth and to save labor. The hen will preserve life in a way better than the brooder, but she causes too much labor to be expended and is so costly that she cannot be used where large flocks are to be raised.

If you buy a brooder that will not favor rapid growth of the chicks at the same time, in an economical way, you had better burn the brooder and resume the use of the hen for she will prove the more economical of the two. The great fault with those who purchase incubators and brooders is that they judge the machine by its cost price and not by its real value. If you buy a brooder simply because it is cheap, you are running a chance of buying a death trap for your chicks.

The brooder that will prove a success must have plenty of light, for light itself is favorable to the rapid growth of chicks. It also is an enemy of disease in nearly every form, especially if the sun be allowed to shine in the interior of the brooder a few hours each day. It must be well ventilated for badly ventilated brooders will never raise healthy chicks. Plenty of pure, fresh air is needed to instill that vigor into the chicks that is so much desired. The brooder must have a large air space, for chicks require a large amount of air. It is a well-known fact that a fowl breathes seven times faster than the human person. It is evident that those brooders having small air spaces will not supply the chicks with good oxygen rapidly enough to satisfy their needs. The air will be consumed in a short time and the coop will be filled with carbon dioxide, which is the exact opposite of air (commonly called "breathed air").

These points must be remembered in purchasing the brooder. Buy those brooders that have a liberal amount of glass and that have a large air space. Remember that it is easier to heat that large air space than it is to supply brooders with small air space, with plenty of fresh air. The last point, which should not be forgotten, is to determine if the brooder will save labor. Since the object of using brooders is to save time and labor, it is essential that this point be considered in its selection. If it will not save labor, do not buy it at all, for the hen will prove more economical than a costly brooder.

There are two types of brooders on the general market today. They may be classed as those artificially heated, and the so-called fireless brooders.

The artificially heated brooders are those that are operated by means of heat generated, usually by a common oil lamp, and brought to the chicks either by means of water pipes or sections of metal that supply the hot air direct to the chicks. The general verdict seems to be in favor of hot water brooders for they supply a better heat. It is of an even nature and does not lack the moisture that seems to be missing in brooders heated with hot air.

These brooders are used more extensively than any other type that has been suggested up to this time. Many have found them economical, but the greatest economy is realized where they are used in large systems. They are all heated by one fire, which causes a great saving in oil and other fuel. We are inclined to think that the artificially heated brooder is a failure from an economic viewpoint, if used on a small scale. But where a hundred or two early chicks are desired it is one of the greatest helps that has been given to the poultry-raising public.

The other type of brooder that is comparatively new is the fireless brooder. It works on the principal of conserving the heat in the bodies of the chicks instead of supplying artificial heat for their needs and comfort. We honestly believe the fireless brooder to be one of the greatest inventions ever offered the public. From an economic point it is without equal, costing less than fifty cents and lasting a lifetime. It will brood up to fifty chicks in a flock and will brood about two flocks each season if used early in the year.

As in the case of the artificially heated brooder, we have given this type of brooder a thorough test and have found it to answer all the requirements of a good brooder. The only objection to its use, however, is that it must be used in connection with some other building. There is hardly a farm in the country that could not overcome this difficulty for there is always an empty loft or room that can be utilized. If this cannot be done you can build small coops out of scrap lumber that will answer the purpose.

In one test with the fireless brooder and the hen as rivals we placed fifteen chicks in a brooder that was supposed to accomodate twenty-five chicks. In another coop which was built exactly like the one in which the fireless brooder was placed, we placed hen and another fifteen chicks. So far as we could see the chicks in each coop were equally active, but at the end of the third week of the test, those in the fireless brooder were far in advance of those that were with the hen, and many were even feathering out in wing and tail. At the end of the sixth week of the test, those in the fireless brooder were almost twice the size of those with the hen and everyone developed into a strong, husky fowl. The hen killed two by stepping on them. At night they became overheated because the body heat of the hen and chicks combined was more than was needed and as a result the chicks were retarded in growth, which did not meet one of the essential requirements of proper brooding—rapid growth.

Another thing in favor of the fireless brooder is that it costs nothing to operate and involves no labor whatever, except a regular cleaning, which is necessary in all brooders. You need have no fear of the fireless brooder setting your house or barn on fire, or overheating or chilling the chicks and, at the same time, you can be assured that the chicks will keep as warm as nature intended that they should. In the wild state the brood did not return to the nest every night to be mothered by the hen. Instead they huddled up under some tree while the mother hen joined her associates among the branches. The hen never hovered her flock, in the wild state, except the first few days till the chicks attained an age sufficient to warrant their wandering about on their own accord.

There are many people who believe that the reason why their chicks are small and stunted is because of the poor service of the incubator, but half the time it is due to poor brooders. A poor brooder will stunt any chick, no matter how strong it may be when hatched.

The first four weeks is the most critical period of the chick's life and the management of the brooder during that time will have much to do with determining the future usefulness of the chick. You must be regular in your attendance of the little fellows and you must feed them intelligently. Above all, avoid corn as a food for chicks, as you would a plague. The best chicks we ever saw were grown without one single grain of corn in the ration. Corn is not necessary—just as good growth is obtained by the use of oats and wheat. Seeds of all kinds are good and nearer nature's original food than any other. Another thing to remember is to refrain from feeding wet or sloppy foods. Dry rations are the best.

Chesla Sherlock.

EGG EATING HENS.

To the Editor of The Homestead:

Perhaps a little actual experience with egg-eating hens will not be out of order. We had felt so proud of the number of eggs we were getting from our pullets that it was hard to convince us that they had acquired so ruinous a habit as that of eating their eggs. We thought it might have been an accident when we first found an egg shell in a nest, but to have it repeated over and over and to find the egg basket just the opposite from filling up, what must we believe?

Those pullets were covered with shining plumage and their combs were the most beautiful red, they had been supplied with generous grain rations and had water, but all these items did not dispute the fact that they were devouring their eggs. No matter how disagreeable the fact it had to be faced and remedied or off would have to come their beautiful heads. Of course, it was midwinter, just the time when Jack Frost and the sunshine were playing hide-go-seek and perhaps an egg had been split, tempting them to test the contents. But no matter the cause we could not have such a performance so we set our wits to work to devise a means of correcting it. The first conclusion was that an egg really is meat and water and that seemed to be what they were so ravenously hungry for. So we collected meat scraps and gave them a generous supply, not enough to hurt them but to satisfy their appetite, then the water, and we gave it as the Irishman voted, "airly and often" and had it well warmed. This menu was so satisfactory that the birds actually forgot the need of warm, fresh eggs and to such a surprising extent that we found no more

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shells in the nests. The egg basket mounted up even faster than before.

We learned our lesson so emphatically that we did not forget to supply the "ounce of prevention" by way of a basket of meat scraps hung safely in the henhouse where it would be convenient and thus make no extra trouble and we would not forget to furnish it to our hens each alternate day Martha M. Knudeson.

THE SPARROW A CURSE.

To the Editor of The Homestead:

I have noticed that someone is trying to pass a law in Iowa to exterminate turtle doves, claiming that they help to spread hog cholera by flying to different feed yards where hogs are fed corn or fattened and picking up loose kernels. I think such a law would be a great sin. English sparrows feed in such places a hundred times thicker than the doves and are more for flying over a large territory to get their meals in different feed yards. Everyone that has had cholera knows that they have been feeding a large bunch of sparrows at their feed lots.

The English sparrow is a curse in every way. They will soon exterminate our song birds in spite of everything we can do to save them. Who sees the martin nesting in the martin boxes any more? Where do you see the wrens and bluebirds raising their broods around our buildings.

Let us save the innocent, harmless doves that were our comfort and joy in pioneer times. John R. Millard.

It Pays to Test Seed Grains.

By H. L. Post.

THE importance of testing our seed grains previous to sowing and planting the season's crop cannot be overestimated. How are we to get the full benefit of our pure-bred seeds that have taken the college of agriculture years to bring up to their present high standard if we are not reasonably sure that the seed sown will produce strong, healthy plants. In Wisconsin alone the annual loss incurred by the planting of untested seed, amounts to hundreds of thousands of dollars. Then why do farmers continue this wasteful practice when if they would give a little time during the early spring and test their seed their increased yield would make it the most profitable piece of work done?

The testing of small grains and grass seeds is perhaps not so commonly practiced as the testing of corn, yet each farmer should do this before sowing. In a great number of cases the poor catch of grass seed or failure of small grains to come is due to the sowing of seed of low vitality which might have been avoided had the seed been tested previous to sowing.

Of course with the small grains a lower germinating per cent may be used than with corn, for the seed may be sown thicker, but do not use poor seed under any circumstances. In testing the small grains it is necessary to get a uniform sample of the recleaned seed by thoroughly mixing and if one has a large quantity to sow, it would be best to take several samples from the same lot and put in a germinating box such as used for corn. This is a much easier job than testing each ear of corn we are going to plant. A great many are under the impression that it is an endless job to test each ear of seed corn and that it does not pay because "father never tested his seed corn before planting" and they feel that a stand of 75 or 80 per cent is about all that can be expected. Experiments, however, show that under favorable conditions of weather and a normal absence of insect pests, etc., there is no reason why a stand of corn should be less than 95 per cent. Fifteen average ears of seed corn will plant an acre in check rows three feet eight inches each way and will make 3,240 hills of corn. Assuming four stalks in the hill and allowing 5 per cent loss from uncontrollable causes, a perfect stand would mean 12,312 stalks on each acre. Now if we plant corn that tests only 85 per cent which, by the way, is above the average for untested seed corn, this would mean a loss of 1,236 stalks on every acre and then too there would be a much larger per cent of weak or barren stalks that produce only small nubbins or nothing at all.

Don't you think you could afford to do a little extra work at a time of year when work is not so rushing and test your seed corn to save over 1,000 ears or ten bushels on every acre you plant? Why work just as hard to produce nine-tenths of a crop or less, as you would for a full crop.

The work of testing each year of seed corn is not such a tedious task after all. In fact after you are once started it has a real fascination. If a close observer one finds some very interesting things. It is not the best looking ear of corn that is the best in the germinating test. Perhaps you will notice a difference in the vitality of the corn picked early and that picked later, that placed near the ceiling and that nearer the floor of the drying room, or that hanging in the sunlight and that where it is not so light.

We usually start testing our seed corn and grains some time in January as we test all that we plant and sell for seed. Right here let me add a word of caution, be sure the frost is entirely out of your corn before you put any in the test as very erroneous results will be obtained if the corn is frozen.

The first requisite in seed testing is a germinating box of which there are several on the market and others described in various bulletins issued. After trying several methods we have found the one most satisfactory is a box about eighteen by thirty-six inches and four or five inches deep. In the bottom place about two inches of sand then put three or four thicknesses of burlap, over which we stretch tightly a piece of heavy muslin tacked to the sides and ends of the box. Then with an indelible pencil draw two-inch squares upon this sheet and number them. For a cover we use several thicknesses of burlap then place a piece of iron roofing cut to fit the box over all, to hold the moisture.

After the corn has been selected for testing place on a table or floor of the drying room with the tips all pointing from you and a nail driven between each ear numbering each space. By placing the ears in this manner they are in a position so the sampling may be done rapidly and systematically. Great care should be exercised when removing the kernels from the ear not to injure the germ. Now take out four kernels from each ear and place in the germinating box in the square numbered correspondingly to that of the ear. In taking out these four kernels we take one from near the butt, then by about a quarter turn of the ear take out the second just about a fourth of the way toward the tip. By repeating this when we have taken out the four kernels we have one out of each quarter of the circumference and length of the ear. After the sampling is completed and covering put over the kernels in the germinating box, it should be thoroughly dampened and the tin cover placed over all to hold the moisture. We allow six or seven days before making determinations, during which time the germinating box should be held at as even a temperature as possible anywhere between 65 and 85 degrees. It is important that the temperature does not get too low during the night. A drop much below 55 degrees will seriously affect the reliability of the test.

At the end of this time remove cover from the box being careful not to disturb the kernels in the squares. Beginning with space No. 1 in germinating box examine the kernels in each square. This part of the testing must be done with considerable care and requires good judgment as kernels will be found in all stages of development. If the four kernels in any square each show good healthy sprouts the ear which they represent should be retained for seed.

If one of the kernels fail to germinate or gives even a weak root or stem sprout, the ear from which it was taken should be discarded as unfit for seed, as should ears in which all the kernels have sprouted but show lack of vigor. The main thing to remember in checking up your test is to use only those ears for seed from which every kernel tested has given a strong, healthy sprout.

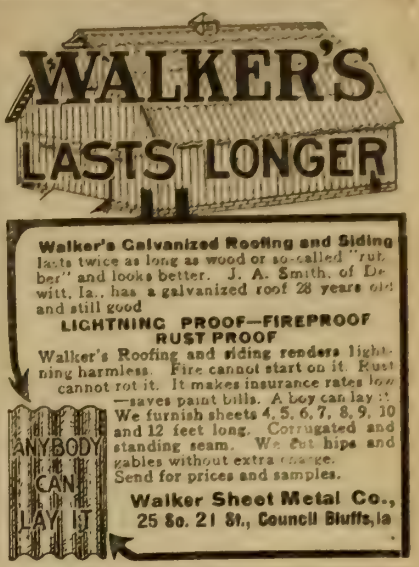
With our pure-bred seeds that have taken hard-working men years to increase the yield to their present high average let us, as members of the Wisconsin Experiment Association, show our appreciation of their labors by at least testing our seed before planting the season's crop that we may obtain as great a yield as possible, expressing in this way our gratitude to them.—|Before Annual Meeting of Wisconsin Agricultural Experiment Association.

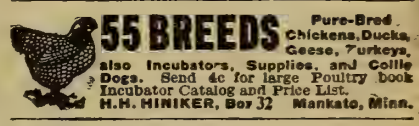
CLOVER, ITS VALUE AS A SOIL RENOVATOR.

To the Editor of The Homestead:

The value of the clover plant as a food for live stock and its use and value as a fertilizer is generally better understood and more fully appreciated than its functions as a soil renovator. In general soil management there are numerous important functions that tillage and fertilizers are unable to perform. When we discuss the clover plant as a soil renovator we have special reference to that particular function or quality which puts the soil into a loose or friable condition and prepares it for the most perfect pulverization by the tools used in fitting and cultivating. The clover plant acts as agent and distributes certain gases which act as a leaven, making the soil more porous and allowing a free circulation of the air, heat and moisture among the roots of the plants. This free action of the air and water enables the roots to gather nitrogen from the atmosphere and deposit in the soil, thus affording fertilizing and renovating qualities for future use. These qualities may be greatly conserved and stimulated when the surface of the soil is kept covered with growing clover at all times. During the winter the tops of the clover will decay and form humus which acts as a cover crop and prevents the loss of nitrogen in the soil by evaporation and prevents the soil from washing.

The long root systems of the clover plants penetrate the depths of the subsoil while silently searching for mineral plant food which they bring up from below and deposit within easy reach of the roots of plants that follow in the rotation of crops. They leave the soil in a porous conditon and it is more easily penetrated by the roots of succeeding crops that follow in the rotation. Clover is a great weed exterminator, and when rightly managed enables us to clean up and renovate a field cheaper than by any other method. The roots reach every part of the soil and disintegrate it, and by their decay leave vegetable matter and food elements brought from the air and subsoil. The value





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White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

Silver Laced Wyandotte cockerels for sale. Choice birds Prices right. Glen and Mae McLaughlin, R. 5, Manning, Iowa.

BUFF WYANDOTTE COCKERELS Farmers' fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

SILVER Wyandottes exclusively. Bred for winter laying from prize winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

Partridge Wyandotte ckls. and pullets from high-scoring birds at a low price. Eggs in season. Good Bros., Montezuma, Iowa.

Partridge Wyandottes B. Wyandottes; average score 91; ckls. for sale. Orders now booked for eggs. Thos. L. Morlan, Indianola, Iowa.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia.

W. WYANDOTTES—Pure-bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

White Wyandotte Ckls. $2.00 to $10.00. Eggs and chicks. Describe your flock. White Wing Poultry Farm, C294, Perry, Ia

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Tisley, Milo, Ia.

EGGS from Pure White Wyan. Chickens, $2.00 22; $3.00 40, $6.00 100. Farm range. John M. Hall - Williams, Iowa

CHOICE WHITE WYANDOTTE COCKERELS, $1.25 to $1.50 to close. Large, vigorous, sure to please. **E. S. DYAS, Bellevue, Iowa.**

White Wyandotte Eggs $1.00 for 15, $4.00 for 100; from state show winners. Address
ETHEL H. SHAW, R. 6, Newton, Iowa.

of clover as a soil renovator depends upon the skill that is exercised in the management and the all-important question for us to consider is, "What can be done to insure the greatest benefit from the clover crop?" First we must get a good stand and then we should plan to have it shade the ground as much as possible. This may be accomplished by cutting the stubble high and allowing the plants to make a vigorous fall growth for protection during the winter. When there is a growth of weeds in the newly seeded stubble it may be cut, leaving a high stubble and taking the track clearer off and allowing the cut plants and weeds to remain on for a winter mulch. It is folly for any farmer to think that he can get the full amount of benefits from manure or commercial fertilizers unless he improves the physical condition of his soil with an occasional growth of clover to lighten the soil and improve its texture. We may study the state bulletins, the works of the best writers and the agricultural press and draw but one conclusion—that the farmer can find no plant that will do more toward putting his soil in good condition and improve its texture than clover.

Subscriber.

POINTERS.

—Mrs. A. Kitson, Audubon, Iowa, has an advertisement appearing elsewhere in this department offering Mammoth Bronze turkey toms and pullets for sale.

—Ethel H. Shaw, Newton, Iowa, quotes prices on White Wyandotte eggs from state show winners in her advertisement appearing elsewhere in this department.

—Cap Oaks, Adair, Iowa, is booking orders for Black Langshan eggs from birds scoring 90 to 95 points as per advertisement found elsewhere in this department.

—Choice White Wyandotte cockerels are advertised for sale by E. S. Dyas & Sons, Bellevue, Iowa, in his advertisement appearing elsewhere in this department.

—Mammoth Bronze turkey toms are advertised for sale by Mrs. A. Bolsinger, Buffalo Center, Iowa, in her advertisement appearing elsewhere in this department.

—Wess Whetstine, Wellman, Iowa, can supply readers with Barred Plymouth Rock eggs from large, well-marked birds, as per advertisement elsewhere in this department.

—E. M. Thompson, Independence, Ia., names the prices in his advertisement appearing elsewhere in this issue at which he can furnish Single Comb Rhode Island Red eggs.

—Write for prices on Mammoth Bronze turkey toms, pullets and two-year-old hens as per the advertisement elsewhere in this department of Mrs. G. W. Curtis, Winterset, Iowa.

—P. W. Frehse, Clarinda, Iowa, wants to buy Indian Runner ducks in quantities. He will also pay highest prices for pure-bred poultry. His advertisement appears elsewhere in this department.

—Frank Hanson, Walnut, Iowa, is prepared to furnish Homestead readers with Single Comb Rhode Island Red eggs at prices named in his advertisement found elsewhere in this department.

—Eggs from high-grade Rose Comb Rhode Island Reds and Indian Runner ducks are offered for sale by Mrs. R. P. Peterson, Ringsted, Iowa, as per advertisement found elsewhere in this department.

—Mrs. W. F. Morgan, Burlington, Ia., has one pen of Crystal White Orpingtons, a cockerel and four pullets, which she is offering for sale in her advertisement appearing elsewhere in this department.

—W. S. Moore, Kalona, Iowa, will make reasonable prices on Single and Rose Comb Rhode Island Reds. His advertisement appears elsewhere in this department. He will send his mating list on request.

—Single Comb White Orpington cockerels that score 90 to 92 and some very good pullets are offered for sale at moderate prices in the advertisement of W. I. Price, Ira, Iowa, that appears elsewhere in this issue.

—Mrs. C. L. Thuirer, Fostoria, Iowa, has some pure-bred Indian Runner ducks and drakes, fawn and white in color, which she announces for sale in her advertisement found elsewhere in this department.

—Single Comb Buff Orpington eggs from farm range, prize-winning stock of good type and color are offered for sale by Glenn Heninger, Hedrick, Iowa, in his advertisement appearing elsewhere in this department.

E. C. Matthiesen, Bryant, Iowa, has a number of good pure-bred Short-horn bulls for sale. His advertisement appears elsewhere in this paper. These bulls are sired by Grand Champion 357001 and out of dams got by Bridegroom 224977, he by Imp. Merry Hampton 132572.

—With this issue of The Homestead Earl Roberts, Ulysses, Neb., is starting an advertisement offering White Plymouth Rock eggs for hatching from one of the most carefully selected flocks in the country. Hatches are guaranteed and prices are very low. See advertisement elsewhere in this department.

—Edward Meyer, Dyersville, Iowa, is offering Pekin duck eggs for sale in his

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
EXCLUSIVELY
STOCK AND EGGS SHIPPED ON APPROVAL
Score Card by Shellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city.
HENRY G. WALKER, IOWA CITY, IA.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

Farm Range R. C. R. I. Red

EGGS for hatching. 75c per 15 eggs or $4.00 per 100. Pen No. 1, $3.00 per 15; Pen No. 2, $2.00 per 15 or $10.00 per 100. No other breed on this farm. Address **J. B. HEISEL, Grinnell, Iowa.**

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

Brilliant Red Strain

SINGLE Comb Reds. Strong, vigorous cockerels, purest blood. Trios and pens mated. Eggs $3 for 50. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

PRIZE-WINNING R. C. R. I. REDS Long, back, big bone, red eyes and low tail. Score 92½ to 95, won 13 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2 50 and $5 per 15. Circular free, Address C. B. Alverson, Moravia, Iowa.

Rose Comb R. I. Red Cockerels

BRED from prize-winning, good laying strains. Prime birds, farm range, closing out $1.50 to $2. Special reduction on four or more. Write today.
W. W. Forbes, Box 41, Jefferson, Iowa.

R. C. RED COCKERELS Must go this month: $2.00 each or 3 for $5.00. Good birds. Book egg orders for both chickens and M. B. turkeys. **O. C. BIERMA, Altoona, Iowa**

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15, $5 per 100. Write **Mrs. W. L. Stoner, - Henry, Illinois.**

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

MOUSER'S REDS (Both Combs) Big, brilliant red ckls. Pullets, mated trios and pens for sale. **W. I. Mouser, R. 5, Red Oak, Iowa.**

R. & S. C. R. I. REDS for sale. Choice cockerels and few pullets. Also eggs from choice pens. When you buy here you get the best. O. A. Knerr, Beaver Crossing, Nebraska.

MOUSER'S REDS (Both combs). Cockerels, pullets, trios and pens for sale. Also Omaha King, first cock at Omaha. Address
W. I. Mouser, R. 5, Red Oak, Iowa.

R. C. RHODE ISLAND REDS

Big-bone, vigorous cockerels at reduced prices. Baby chicks and eggs. F. N. Blake, Maquoketa, Iowa.

S. AND R. C. Rhode Island Reds, DeGraff and Tuttle strains. Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

FOR sale. R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

R. C. R. I. Red cockerels, big boned, dark red, 7 to 8 pounds, $2.00. Two-year-old M. B. turkey hens and 1 tom. **Mrs. F. B. DANN, Dewitt, Iowa.**

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. **C. F. BATTELS, Indianola, Iowa.**

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia

S. C. RHODE ISLAND REDS large size, red to the skin, a laying strain. Eggs $2.00 per 15. E. M. Thompson, Independence, Ia.

S. C. R. I. RED EGGS

for sale. Address Mrs. Sophia Rader, Laurel, Ia.

BRAHMAS.

LIGHT BRAHMA COCKERELS

THEY have heavy bone and good markings. Have bred the Light Brahmas over 20 years. Prices $1.50 to $3.00. Also Shetland ponies. Address
FRANK P. HEALY Bedford, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

ORPINGTONS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK

EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

Fortmann's Single Comb White Orpingtons

ARE strictly high-class. Now is the time to place your order for cockerels of the better sort. Please let me know your wants. Address at once Frank Fortmann, Box 23, Dyersville, Iowa.

S. C. BUFF, BLACK AND WHITE ORPINGTON cockerels, hens and pullets. High quality, prize-winners, scored, unscored. Shipped on approval at reasonable prices. Eggs in season. E. B. Conable, Box C, Independence, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

FOR SALE—One pen C. W. Orpingtons, purchased of Kellerstrass; ckl. won 4th, Burlington show. 4 pullets, and all fine birds. Must move, reason for selling. Mrs. W. L. Morgan, 1803 Orchard St., Burlington, Ia.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 for 100; Utility flock $5 for 100 Book orders early. V. H. Conner, Shell Rock, Iowa

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

CHOICE CRYSTAL WHITE ORP. ckls. and pullets for sale. Kellerstrass $30.00 egg mating strain. Special prices. J. H. Hartshorn, Traer, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

50 S. C. Buff Orpington ckls. Fine, large birds of exhibition color and solid buff wings. $2 to $5 each. Address Dan McCarty, Winthrop, Iowa.

Choice Crystal White Single Comb Orpington Ckls. Kellerstrass strain. H. A. Hamilton, Yutan, Neb.

FARM range S. C. Buff Orp. eggs. Prize-winning stock; good type and color; are offering eggs at $1 per 15, $5 per 100. Glenn Heninger, Hedrick, Ia.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

S. C. W. ORPINGTON Cockerels, scoring from 90 to 92, $2.00 to $2.50. Pullets $1.00. Address W. I. PRICE, IRA, IOWA.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, high-scoring, 13, $2; 35, $4; 100, $10. Address B. M. HALL, Ellsworth, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Buff Orpingtons Yearlings, young stock and eggs for sale. Prices right. Glynn Poultry Yards, L. B. 69, Cascade, Iowa.

KELLERSTRASS WHITES—Eggs $1.50 per 15 or $8.00 per 100. S. C. Buffs $5.00 per 100. ORPINGTON FARM, Big Rock, Illinois.

DUCKS.

Wanted, Indian Runner Ducks

IN quantities. Will buy entire flocks. Highest prices for all pure-bred poultry. What have you to sell. P. W. Frehse, Clarinda, Iowa.

CHAMPION ROUEN DUCKS

FOR SALE. Our stock beat Crystal Palace, London, winner last season at Chicago. Only $3.00 per head for male or female for quick sale. Have to make room. Mention Homestead. HENRY SCHEHL & SONS, Prophetstown, Illinois.

Eggs from Mammoth White Pekin Ducks HEADED by drakes scoring 97, 97½. Won blue ribbon at Oswego, Kansas, poultry show, 1912. $2 for 13; $4 for 30; $6 for 50; $10 for 100. Address JOHN M. HALL, - Williams, Iowa.

Pekin Duck Eggs from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 13; pen 2, $1.50 per 13. Address EDW. MEYER, Dyersville, Iowa.

EGG ORDERS NOW BOOKED from our champion strain of Indian Runners that won all firsts at Chicago. A few choice drakes. F. L. Reinhard & Son, Ottumwa, Ia.

WE are offering 100 extra choice breeding trios o pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address Rahn & Son, Box 144, Clarinda, Iowa.

I. R. ducks, both fawn and white, and the English penciled. Special prices on eggs for Feb. and March orders. Nishna Collie Kennels, Oakland, Ia.

Genuine English Walton white egg Runners, Ideal duck for farmers. Send for leaflet. E. D. Alkire, Dallas Center, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. MRS. C. A. ROBINSON, Griswold, Iowa

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia.

FOR SALE Pure-bred Indian Runner ducks and drakes, fawn and white. MRS. C. L. THUIRER, Fostoria, Iowa.

MINORCAS.

EGGS S. C. Black Minorca, Blue Ribbon FERTILITY TESTED. Ideal laying strain, stock limited. Pens $4, $3, $2; mixed, $2.50. Quality cheaper. Booking orders. Write me. C. G. DAKE, - EPWORTH, IOWA.

Rose and S. Comb Black Minorcas. B. Langshans from our silver cup prize winners. Elmwood Poultry Farm, Blakesburg, Iowa.

advertisement that appears elsewhere in this department.

—L. M. Murrow, Mitchellville, Iowa, quotes a low price on Buff Rock cockerels in his advertisement appearing in this department.

—The Glynn Poultry Yards, Cascade, Iowa, can supply readers of The Homestead with Single Comb Buff Orpington stock and eggs at right prices.

—N. W. Scales, Iowa City, Iowa, can furnish eggs from snow white utility White Wyandottes at prices named in his advertisement appearing elsewhere in this department.

—M. H. Mammn, Hinton, Iowa, is quoting prices on White Orpington eggs under the proper heading in this department. He is also quoting prices on Indian Runner duck eggs in an advertisement elsewhere in this department.

—Tom Sellers, Vinton, Iowa, has two pens of White Orpingtons from which he can supply Homestead readers with eggs for hatching. His advertisement quoting prices and giving other information appears elsewhere in this department.

—Barred Plymouth Rock eggs from females weighing ten pounds and males weighing twelve pounds are offered for sale by A. D. Murphy, Essex, Iowa, in his advertisement that appears elsewhere in this department. They issue a catalog which will be sent free and have some state show first-prize winners in their flock.

—"My White Plymouth Rocks are better than ever before and the flocks contain 150 choice hens in fine condition," writes Mrs. H. Wood, Moville, Ia., in sending copy for advertisement found elsewhere in this issue. She adds, "I am well equipped to handle all egg orders and, whether large or small, each shall receive the same careful attention."

—White Plymouth Rock eggs from two different pens, each headed by a prize-winning cockerel and mated to hens weighing ten pounds each, are offered for sale by Charles L. Berry, Iowa City, Iowa, in his advertisement appearing elsewhere in this department. Mr. Berry will give a very liberal discount on all orders for eggs booked before March 15th.

—Mrs. B. C. Marts, Hampton, Iowa, has an advertisement offering Single Comb White Leghorn eggs for sale elsewhere in this department. In furnishing copy she writes: "Our stock are farm range, good and healthy and nothing but good fresh eggs will be shipped. They will be packed carefully. Parties wanting large orders should write for prices."

—J. B. Heisel, Grinnell, Iowa, is offering eggs for sale from his flock of Rhode Island Reds in his advertisement found elsewhere in this department. He breeds Rose Comb Rhode Island Reds exclusively and has a number of prize winners in his pens. Orders will be filled promptly and carefully and in the order in which they are received.

—We wish to call the attention of Homestead readers to the advertisement elsewhere in this department of Mrs. H. E. Clark & Sons, Estherville, Iowa. They are advertising for sale some choice White Plymouth Rocks and Rose Comb Buff Leghorn cockerels, also a limited number of Rose Comb White Orpington females and a few pairs of White guineas.

—W. W. Vaughn, Marion, Iowa, who has bred Buff Cochins for twenty-five years, reports good sales thus far this season. He still has a fine lot of big-boned, large-framed, well-feathered, good-colored cockerels, weighing eight to twelve pounds, which he is offering at $2 to $5 each. He can also spare a few hens and pullets. See advertisement elsewhere in this department.

—Mrs. Wilson McIntyre, Red Oak, Ia., writes: "I cannot fill any more orders for unscored Single Comb White Leghorn cockerels. Have a few cockerels scoring 92¼ to 93¼ points from $2.50 to $3.75 each. Have a few hens and pullets at $1 each. I am booking orders for eggs and baby chicks. Eggs from exhibition females mated to cockerel direct from D. W. Young at $3 per fifteen, or $5 per thirty."

—In furnishing copy for her new advertisement found elsewhere in this department, Miss Maggie Henning, Ira, Iowa, writes: "My Rose Comb Rhode Island Reds are in good healthy condition, fine looking, large vigorous birds. They will weigh from seven to eight pounds and were raised on a large farm. They score from 91¼ to 93¼. My prices are greatly reduced, as I must make room for my breeding pens."

—Mrs. H. A. Wohlsdorf, Lawler, Ia., in furnishing copy for advertisement found elsewhere in this department, writes: "I am sold out of White Holland turkey hens, but have some good toms left. They are big, heavy-boned birds and of the best of breeding. Have sold all my Single Comb Black Minorcas and could have sold more if I had had them. The Pekin drakes I am advertising for sale are choice birds, nice, large and heavy boned, with snow white plumage."

—H. Nobiling, Perry, Iowa, in sending copy for advertisement offering Partridge Wyandotte eggs for sale, found elsewhere in this department, writes: "I have sold all of my cockerels. Have two pens mated for this season. They are hard to beat and are headed by prize-winning cockerels. The cockerel at the head of pen No. 1 took first at Lansing and Grand Rapids, Mich.; the cockerel at the head of pen No. 2 won first at Gowrie and second at Boone, Iowa."

Ask your neighbor to subscribe for The Homestead.

LEGHORNS.

Rose Comb Brown Leghorns EXCLUSIVELY.

15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $5; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

THOROUGHBRED S. C. W. Leghorn cockerels for sale. They are raised from a choice flock of hens and $5 apiece cockerels. Will sell same at $1.25 each. Same quality, with frosted combs, 75cts. each. No discount for quantities and not less than 3 shipped. Power Creek Farm, Treynor, Iowa.

S. C. W. LEGHORNS

CHALK WHITE. Six blue ribbons Des Moines, 1912. Eggs $2 to $5 per 15. Utility $6 for 100. Address J. M. Williamson, R. 1, Des Moines, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed, Express prepaid. Circulars free. Address R. S. Ketcham, Box H, Boonville, Indiana.

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 A. B. JORDAN, - Moravia, Iowa.

S. C. Brown Leghorn Eggs from scored farm range stock. 75 cents for 15, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. F. Bollman, Wall Lake, Ia.

PURE BRED Rose Comb, Brown Leghorn cockerels. Fine birds, $1 each or six for $5. Address Mrs. Laura Mather, Clarksville, Iowa.

ROSE and Single Comb White Leghorns and Black Langshan cockerels for sale. Single bird $1.25 or 6 for $6. Address Joseph Kappes, Jr., Ashton, Iowa.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100. From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

ROSE COMB Brown Leghorn cockerels and pullets for sale at $1 each or 6 for $5. Address T. E. Diehl, Berwick, Iowa.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

S. C. W. LEGHORN. Young's cockerels, 92¼ to 93¼ points. Hens and pullets, $1.00; eggs $5.00 per 100. Mrs. Wilson McIntyre, Red Oak, Iowa.

26 S. C. BROWN LEGHORN Eggs for $1.00; chicks, 25, $3. Address Mrs. John Morse, Route 4, Avon, Illinois.

R. C. B. Leghorn Ckls. If taken soon. $ each or six for $5 Address Mrs. G. W. Stetzel, Audubon, Iowa

TURKEYS

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

MRS. J. E. BAXTER Walnut Grove, Minnesota, has Mammoth White Holland turkeys for sale. Toms $5.00, hens $3.00. Write your wants.

WHITE HOLLAND TURKEYS ELEPHANT strain. Both sexes. Prices right. Mrs. J. H. Hanlon, Lawler, Ia.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. LONGWORTH'S, Polk, Iowa.

M. B. TURKEYS Giant strain. Marked right and priced right. Address C. A. Molesberry, Plymouth, Iowa.

White Holland Turkeys. Extra large. Eggs and trios furnished. Prices rigbt. Address Mrs. C. J. Way, Bussey, Iowa.

Mammoth Bronze Turkeys Sire scoring 93¾ Toms $5, hens $3.50. Address Geo. W. Stewart, Floyd, Iowa.

GIANT STRAIN M. B. turkeys. Young toms for sale, noted for size, vigor, standard markings and show record. A. D. Walker, Memphis, Mo.

M. B. TURKEYS, both hens and toms, large boned and nicely marked for sale. Satisfaction guaranteed. Address F. J. Scantlebury, Hampton, Ia.

White Holland Turkeys. About 50 choice toms and hens, farm raised. Address Mrs. Lloyd Clark, Greenfield, Iowa.

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. Foster, Caldwell, Ohio.

W. H. TURKEYS. Hens $3, toms $5. S. C. B. Minorca hens and pullets. Ckls. not related. $1 each while they last. Mrs. H. A. Wohlsdorf, Lawler, Ia.

Mammoth Bronze Turkey Toms FOR SALE. Weight 25 pounds. Price $5.00. MRS. A. BOLSINGER, R. 3, Buffalo Center, Iowa.

M. B. TURKEYS Toms, pullets and 2-year-old hens. Write for prices. Mrs. G. W. Curtis, R. F. D. No. 7, Winterset, Iowa.

FOR SALE M. B. turkeys—toms and pullets. Extra fine birds. Address PLAIN VIEW STOCK FARM, Colfax, Iowa

M. B. T. TOMS and pullets, eggs from 28-lb. hens. Buff and White Orpington ckls. Also eggs. Address Steve Morlan, Plano, Iowa.

M. B. TURKEY TOMS $5.00 each, pullets $2.50. Address MRS. A. KITSON, Audubon, Iowa.

W. H. TOMS $4.00 each, weight 22 and 23 lbs. A few choice Pekin drakes $1.50 each. Address Mrs. H. A. Wohlsdorf, Lawler, Ia.

CORNISH GAME.

FOR SALE Cornish Indian ckls. and hens. Prices right. Eggs in season. MRS. J. N. COOPER, R. 2, Red Oak, Iowa.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls. and pullets for sale. W. W. Vaughn, Marion, Iowa.

DOGS.

SCOTCH COLLIES

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BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

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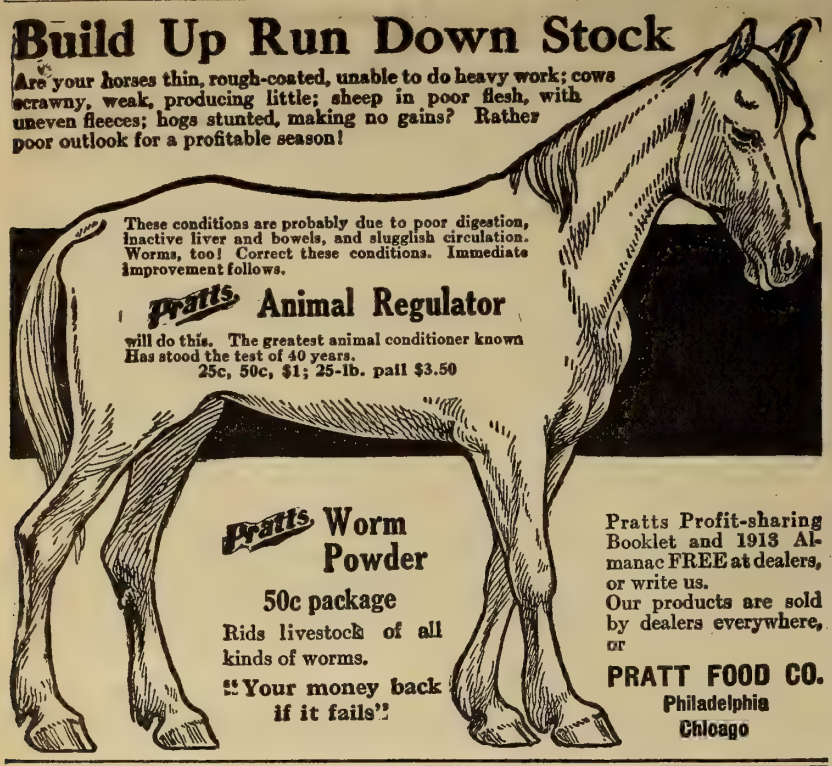

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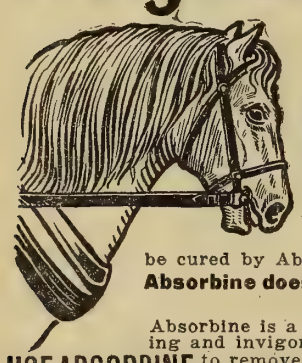

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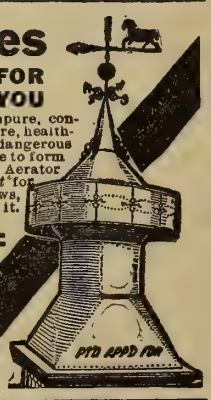

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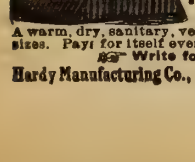

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

PINING COW—WOODEN TONGUE.

(1) Have a red cow six years old due to come fresh in May and now giving some milk. About two months ago she refused to eat and has since become very thin. At first she passed bloody urine frequently, but now seems normal in that respect. Her bowels have not been as loose as they should be. She eats hay, fodder or ear corn, but won't eat bran or shelled corn. Seems rather stiff, will stand outside all the time and has to be driven into the barn, regardless of weather. I gave her linseed oil mixed with bran and shelled corn, which she ate for a few days and seemed better, but won't eat it now. (2) Have another cow six years old that started to slobber about a month ago, and about a week ago her tongue began to swell up. The trouble seems to be on the under side at the root. She starts to eat all right and then her tongue swells and she does not seem to be able to swallow. After eating she gets better and chews her cud all right. I washed the sore spots with a strong alum solution.—R. K. W.

(1) We would not feel justified in prescribing treatment for this cow as the symptoms strongly suggest the presence of tuberculosis. Have her tested with tuberculin. (2) This trouble is called "wooden tongue" and is due to an invasion of the parts by the ray fungus (actinomyces). It is curable. Paint the denuded spots on the tongue once daily with tincture of iodine. Dissolve one dram of iodide of potash in the drinking water night and morning for ten days; then skip ten days and repeat. Several ten-day periods of treatment may prove necessary to effect the cure.

INDIGESTION.

I moved from Iowa to Nebraska last spring and all horses have been poor all summer, though they look better now. However, one, fifteen years old, is in bad condition. His hair is long and standing the wrong way. He is a fast eater and has a ravenous appetite, but quite a good deal of the corn passes through whole. He is blind and his teeth seem to be in good order. I feed him corn, oats straw and millet hay once a day.

Have the teeth attended to by a veterinarian. Clip the hair from the belly to a line with the straps of breeching and breast collar and from legs above knees and hocks. Feed from a very large shallow feed box so that he will not bolt feed. Change rations to whole oats, wheat bran, ear corn and mixed clover hay. For the present at least do not feed millet hay. As worms probably are present give the worm powders so often prescribed here.

DISEASED COWS.

Five cows had calves last summer and fall, but some of them died the first day and some lived longer, but they were weak and did not have much life. The cows are young, look good and give milk. They were on pasture last summer and are in the stalks now. It is impossible to get them with calf again.

Have the cows tested with tuberculin as tuberculosis may be the cause of the trouble. If not tuberculosis they are doubtless afflicted with contagious abortion and if so they should go to the butcher for immediate slaughter. It will not pay you to treat them unless they are valuable registered animals. No specific cure has been found for contagious abortion.

WOUND.

Last fall my three-year-old mare got cut in the wire and though I have had two veterinarians treat the wound it does not heal up as it should and the leg is very badly swollen.

You do not describe the wound or say where it is located so we cannot give confident advice. Give the mare plenty of exercise every day and bandage the leg when she comes into the stable. Let her occupy a box stall. Wet the wound often with a mixture of one ounce of sugar of lead and six drams of sulphate of zinc in a pint of water. Label the bottle "poison" and shake it well before use.

BLINDNESS.

I have a young horse that was castrated last spring and nearly bled to death. He has been blind since, but sometimes I think he can see a very little. His eyeball looks all right, except the pupil.

We fear that the blindness mentioned is incurable; but you might try the effects of a blister applied to the poll of the head. Cerate of cantharides will serve the purpose. Also give once daily in the drinking water for five consecutive days a week, one dram of iodide of potash, to be continued for two weeks. Feed the horse well on oats and bran.

GARGET.

Sometimes the udder of one of my cows swells up and when in that condition she gives lumpy milk having the appearance of being clabber. I would like some advice as to how to cure this trouble.

At times of attack give a pound dose of epsom salts dissolved in three pints of warm water well sweetened with molasses, and follow with a tablespoonful of saltpeter in drinking water each night until trouble subsides. Foment the udder with hot water three times a day, stripping away the milk at same time, and at night rubbing in warm melted lard.

LAMENESS.

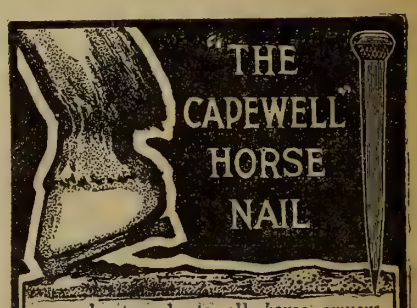
I have a black mare that often gets lame in her right front leg, but I can't see anything wrong with it; no swelling any place except that it seems a little puffy just above the fetlock. If she is lame at night when I take her into the barn she is all right in the morning for awhile, sometimes for half a day, and sometimes she will limp in a couple of hours.

Each time she comes into the stable hand rub the leg dry, then wrap with cotton batting and bandage snugly. If this does not suffice, after a thorough trial, clip off the hair and blister the back tendons with cerate of cantharides.

WOODEN TONGUE.

Please tell me what causes wooden tongue in cattle and what will cure it.

See answer on this subject to R. K. W. in this issue.



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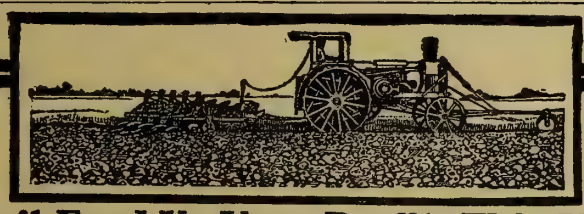

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Because they are "Light-Weight" (12-25 H. P. less than 7,500 pounds, 20-35 H. P. less than 11,500 pounds and 40-80 H.P. only 20,000 pounds) they don't pack the ground or waste fuel like heavy-weight Tractors. This is a big point to note. Also the Simplest Tractors built. Burn gasoline or kerosene.

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produces in the hot summer when other pastures are short and feed is scarce. Can be planted in summer for fall feeding. Great for stock of all kinds. Grows quickly—produces big tonnage of fine green fodder *when it is needed most.* Write today for prices also free book of Garden and Field Seeds.

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NEWS OF THE SALE RING.

Slepicka's Short-horn Sale.

One of the snappiest and nicest sales of Short-horns that the writer has attended for some time was held by Chas. A. Slepicka, Tobias, Neb., on February 14th. The offering was a nice one, mostly quite young, excepting three cows with quite a little age, and they were eagerly picked up at an average price of $100. About five years ago Mr. Slepicka started with three or four heifers and the cattle sold in this sale were all descendants of these same cows and three of them went in the sale. We cite this fact merely to show that it is possible for a farmer who is only of moderate means to build up a herd of choice cattle and realize a good profit on them if only given reasonable attention. Another feature of this sale was the fact that practically all the cows were taken out of the pastures and stalk fields only the day before the sale. The value of a good bull in the herd was clearly demonstrated by the demand that was manifest for cows bred to Mr. Slepicka's great young bull, Diamond Digger, a son of the champion, Diamond Goods, and out of a Queen of Beauty cow. Col. W. J. Thompson did the selling and certainly set a high mark for himself by the manner in which he conducted the sale. Those selling for $100 or more are listed:

COWS.

Atlanta, calved April, 1908, and c. c.; W. J. Kottas, Tobias, Neb.	$120.00
Melinda, calved April, 1908; L. L. Miles, Grafton, Neb.	110.00
Lady Countess, calved March, 1909; C. Smraha, Milligan, Neb.	112.50
Violet, calved February, 1911; J. A. Schinzel, Grafton, Neb.	134.00
Rosie, calved April, 1907; J. A. Schinzel	111.00
Rosie 2d, calved April, 1910; Alex. Fergersen	100.00
Viola 2d, calved February, 1911; Blank & Hackleman, Macon, Neb.	102.50

BULLS.

Hero, calved March, 1911; Alex. Fergerson	125.00
Glendale, calved January, 1912; B. A. Ksamit, Hallam, Neb.	130.00
Violet's Count, calved December, 1911; C. W. Sarnes, Western, Neb.	105.00

The Mouw Poland China Sale.

The annual sale of bred sows, held by Peter Mouw, Orange City, Iowa, on February 19th, was one of the most successful of the winter sales in the northwestern part of the state. The average of $137 was secured on an offering of fifty head and from a crowd among which were some of the most prominent breeders of the Poland China hog in the country, a gathering which appreciated the class of the sale stuff to the utmost. Breeders were present from Missouri, Indiana, Illinois, Minnesota, South Dakota and Nebraska and were buyers of the best in the offering. Mr. Mouw had a great lot of sows, mostly matured, and the entire consignment showed all the size that this breeder has made so prominent in his work. The sale was topped by Herring Bros., Columbus, Neb., on No. 48 at $345. No. 1 was next in price, going to J. G. Gallman at $320. For the number of animals listed and sold this sale will probably set a mark in the breeding record made by Peter Mouw that will stand for some time, and it is about as good an average as has been made by any breeder who is not riding his hogs on a boom. Although the world-famous Big Jumbo is dead there are several young boars in the herd at this time that give promise of developing the same great size and other good qualities that this boar possessed, and sows bred to them were much in demand, especially those by Big Jumbo. The sale was conducted by Col. J. A. Benson, assisted by Cols. Ira Cottingham, W. H. Cooper and E. H. Jackson. The following is a list of the sales:

1.	J. G. Gallman, Van Horne, Iowa.	$320
2.	J. G. Gallman	210
3.	W. J. Graham, Howard Lake, Minn.	165
4.	S. A. Nelson, Malcolm, Neb.	125
5.	M. S. Stanhope, Tampico, Ill.	90
6.	N. Bondra, LeMars, Iowa	100
7.	Ruebel Bros., Marathon, Iowa	145
8.	W. J. Graham	155
9.	Thomas Sturdy, Greenfield, Ia.	95
10.	Lewis Ries, Ringsted, Iowa	205
11.	Thos. Sturdy	105
12.	Ruebel Bros.	155
13.	Manchester Bros., Leon, Iowa	170
14.	Thos. Sturdy	175
15.	Myron Nelson, Dante, S. D.	80
16.	Wilson Rothman, Parker, S. D.	75
17.	N. H. Majears, Remsen, Iowa	100
17.	L. K. Haggin, Georgetown, Ky.	160
19.	E. E. Farver, Ocheyedan, Iowa	195
20.	Frank T. Romberg, Sleepy Eye, Minn.	80
21.	Ruebel Bros.	155
22.	W. H. Cooper, Hedrick, Iowa	110
23.	J. D. McFarland, Camp Point, Ill.	140
24.	Wm. Grooters, Boyden, Iowa	190
25.	J. L. Gutshall, Sheffield, Ill.	155
26.	Geo. M. Vader, Churdan, Iowa	155
27.	Wm. Rostock, Oregon, Mo.	140
28.	C. W. Humerick, Atlantic, Iowa	135
29.	W. J. Graham	225
30.	W. H. Deacon, Raymond, Mo.	85
31.	Wilson Rathman	110
32.	Geo. J. Trestfod, Rushford, Minn.	75
34.	J. T. R. Nash & Sons, Minden, Neb.	100
35.	Manchester Bros.	85
36.	W. J. Graham	115
37.	S. A. Nelson, Malcolm, Neb.	200
40.	C. A. Johnson, Washta, Iowa	90
42.	W. H. Cooper	140
43.	Mr. De Voe, Rock Valley, Iowa	90
44.	Manchester Bros.	65
45.	L. T. Silkey, Smith's Mills, Minn.	90

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You Can Do It While He Works.

We want to show you that there isn't any affection that causes lameness in horses that can't be cured, no matter of how long standing. We want to send you our instructive book, "Horse Sense" No. 8.

It describes all. And with the book we want to send you an expert's diagnosis of your horse's lameness. All this is absolutely free. Simply mark the spot where swelling or lameness occurs on picture of horse, clip out and send to us telling how it affects the gait, how long animal has been lame and its age.

We absolutely guarantee Mack's $1,000 Spavin Remedy to cure Spavin, Bone or Bog Spavin, Curb, Splint, Ringbone, Thoroughpin, Sprung Knee, Shoe Boil, Wind Puff, Weak, Sprained and Ruptured Tendons, Sweeny, Shoulder or Hip Lameness and every form of lameness affecting the horse. We have deposited One Thousand Dollars in the bank to back up our guarantee. Cures while he works. No scars, no blemish, no loss of hair.

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POSITIVELY cure sick hogs and prevent well hogs from getting sick. Cure your hogs now or make your well hogs sick proof. Will ship remedies without money. If they fail no money will be asked. Write today. Give number, sizes and true condition of all hogs in herd. Address

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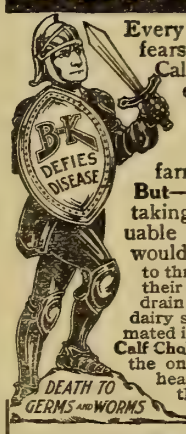
Calf Cholera



Every dairyman knows and fears the deadly results of Calf Cholera. The loss every year in the Central States alone amounts to more than the total taxes paid by farmers in those states. But—the greatest loss is the taking away of so many valuable young animals that would otherwise develop into thrifty profit producers for their owners. This enormous drain on the farmers of the dairy states can hardly be estimated in dollars and cents.

Calf Cholera is a germ disease and the only way to avoid these heavy losses and wipe out the disease is to destroy the germ.

10 times as Powerful a Germ Destroyer as Carbolic Acid, but Non-Poisonous.

B-K Bacili-Kil

Destroys Germs. Disinfects Stables, Animals, etc. Prevents Disease.

By actual laboratory tests it has been proved that one drop of B-K in five tablespoonfuls of water destroys the Calf Cholera germ instantly and yet it is absolutely non-poisonous to either human or animal life, making it possible to give to calves in their milk.

By this simple, easy means B-K is taken into the digestive tract where it acts directly upon the disease-breeding germs. Even in advanced cases relief is prompt, and as a means of prevention the B-K treatment is safe, sure, convenient and inexpensive.

Trial Bottle FREE

To prove the wonderful value of B-K about the farm and dairy in treating Calf Cholera, Tuberculosis and all other forms of germ diseases, we will for a limited time send a full trial bottle free to any farmer or dairyman who fills out the coupon below. You can't afford to pass this liberal offer. You can't afford to be without this positive protection from the scourges and diseases which are causing the loss of millions of dollars to farmers every year, especially when you can get it to try and prove, absolutely free. Fill out and mail coupon now—lest you forget.

GENERAL PURIFICATION CO.

501 Pioneer Bldg., Madison, Wis. (4)

General Purification Co., (4)
501 Pioneer Bldg., MADISON, WIS.

Express me one Free Trial Bottle of B-K. I will give it a thorough test on honor, according to directions and will write you the results. I think of trying it for.

I keep ____ Cows ____ Hogs.

Name ____

P.O. ____

Ex. Office ____

When writing to advertisers please mention The Homestead.

46. A. A. Chantland, Badger, Iowa__ 110
47. L. K. Haggin_____ 200
48. Herring Bros., Columbus, Neb_ 345
49. Wm. Rostock _____ 130
50. Thos. Sturdy _____ 100
51. Wilson Bros., Panora, Iowa____ 115
52. Frank Harris, Onward, Ind_____ 95
53. L. R. McClarnon, Braddyville, Iowa _____ 125
54. W. H. Deacon_____ 75

SUMMARY.

50 head _____$6,850; aver_____$137

Koenig's Duroc Jersey Sale.

A very successful sale of Duroc Jerseys was held by H. H. and C. H. Koenig at the farm of the former at DeWitt, Neb., on February 13th. The offering was very choice in most cases, and while a nice average was secured, yet more money was due on the better ones. The top of the sale was only $58 and at the price Lot 3 went to the good young breeder, A. J. Duerr, Milford, Neb. Wm. Retzlaff, Bennet, Neb., secured an extra choice sow in Lot 1 for $50. This sow was easily the $100 kind. The entire offering averaged $38.50. Those selling for $35 or more are listed. The sale was conducted by Col. W. J. Thompson:

1. Wm. Retzlaff, Bennet, Neb_____$50
2. C. W. Buck, DeWitt, Neb_____ 47
3. A. J. Duerr, Milford, Neb_____ 58
6. H. J. Pfingston, DeWitt, Neb___ 35
11. H. O. Waldo, DeWitt, Neb_____ 50
12. W. H. Jewell, DeWitt, Neb_____ 40
14. H. O. Waldo_____ 36
17. Jas. Mitchell, Wilber, Neb_____ 51
23. E. C. Jewell, DeWitt, Neb_____ 37
24. Hammond Bros., Exeter, Neb___ 48
25. Wm. Howlett, DeWitt, Neb_____ 39
26. Jas. Mitchell _____ 40
27. J. W. McFarland, DeWitt, Neb__ 37
28. D. Raines, DeWitt, Neb_____ 35
29. E. G. Wendland, Plymouth, Neb. 46
30. Jas. Mitchell _____ 46
31. C. B. Clark, Fairbury, Neb_____ 43
32. J. W. McFarland_____ 36
33. Oscar Solberg, Grafton, Neb____ 47
34. Jas. Mitchell _____ 40
35. J. W. McFarland_____ 40
37. Jas. Mitchell _____ 45

Bloemendaal's Poland China Sale.

The sale of Poland China bred sows held by Korver Bros. and G. J. Bloemendaal, Alton, Iowa, on February 18th, was a decided success. The forty-four head sold for an average of $85.57 in a quick sale, and were sent to many sections of the corn belt. The sows that were by the great boar, Big Black Jumbo, or bred to him, were in the strongest demand, for this boar has demonstrated that he is one of the best breeding sires in this section of the state. He puts on good bone and gives stretch to his progeny that is taking them to some of the best breeders in the country. The top of the sale was $150, paid on two sows, one from the Korver offering and the other from the Bloemendaal herd. Harry Uitenbogarrd, Archer, Iowa, who has been buying some of the choicest sows in the sales of the northwestern part of the state, bought the sow, Mollie C., from the Bloemendaal herd at this figure, and the top of the other offering was No. 33, which went to Fred Miller, Rock Valley, Iowa. Nebraska buyers were prominent in the bidding and practically all of the offering went to good breeders. The sale was in charge of Col. H. S. Duncan who, at the opening of the sale, in respect to the memory of Col. Geo. P. Bellows, whose death was announced just previous to the sale, requested that the gathering uncover in memory of that great figure in the live stock industry. Following is a list of the sales:

1. Harry Uitenbogaard, Archer, Iowa _____$150.00
2. Wm. Scholten, Alton, Iowa__ 77.50
3. Harry Uitenbogaard _____ 125.00
4. Harry Uitenbogaard _____ 145.00
5. Frank Roberts, Earlham, Ia_ 145.00
6. Frank Roberts _____ 95.00
7. W. H. Mossdamm, Sibley, Ia_ 97.50
8. French & Doctor, Hawarden, Iowa _____ 85.00
9. Nick Hulst, Alton, Iowa_____ 70.00
10. E. M. Parry, Kingsley, Iowa_ 80.00
11. Wm. Carey, Fonda, Iowa____ 87.50
12. G. M. Pullman, Marathon, Ia. 80.00
13. Nick Hulst _____ 92.50
14. Wilson Bros., Panora, Iowa__ 87.50
15. Geo. Califf, Carter, S. D_____ 75.00
16. Wm. Van Surksum, Hospers, Iowa _____ 70.00
17. John Littzen, Dayton, Iowa__ 70.00
19. N. H. Majears, Remsen, Iowa 57.50
20. Wm. Grooters, Boyden, Iowa 87.50
a21. Hrrry Uitenbogaard _____ 97.50
22. J. M. Peery, Alvord, Iowa___ 65.00
23. J. Tancate, Edgeton, Minn___ 70.00
24. Wm. Scholten _____ 75.00
25. A. Vanderploeg, Kanawha, Ia. 75.00
26. Henry Bloemendaal, Alton, Ia. 62.50
27. C. H. Johnson, Correctionville, Iowa _____ 55.00
28. J. O. James, Braddyville, Ia_ 70.00
29. Wilson Bros. _____ 87.50
30. Jim Bloemendaal, Alton, Ia__ 70.00
31. C. H. Johnson_____ 77.50
32. Wilson Bros. _____ 100.00
33. Fred Miller, Rock Valley, Ia_ 150.00
34. L. A. Robinson, Correctionville, Iowa _____ 72.50
35. Sam Dykstra, Maurice, Iowa_ 62.50
36. Tim Neuhofel, Central City, Neb. _____ 62.50
37. John Grotenhaus, Hospers, Ia. 77.50
38. W. J. Graham, Howard Lake, Minn. _____ 87.50
39. Frank Hurst, Alton, Iowa____ 87.50
40. G. A. Henning, Scranton, Ia_ 67.50
41. N. A. Christian, Scranton, Ia. 75.00
42. W. S. Austin, Dumont, Iowa_ 87.50
44. L. T. Silkey, Smith's Mills, Minn. _____ 77.50
45. John Grotenhaus _____ 67.50
46. Wm. Carey _____ 87.50

SUMMARY.

44 head _____$3,765; aver_____$85.57

Tutt's Chester White Sale.

The Chester White sale held by Geo. H. Tutt at his farm near Marathon, Ia., on Wednesday, February 19th, was quite successful from every standpoint. The average of $42.14 on thirty-five head was considerably more than the average that the same breeder secured a year ago, and the sows that he sold were sent out to some of the best breeders in this state. Mr. Tutt is a progressive breeder and has been sending out stock that has made good in the hands of other breeders. The sale was in charge of Col. W. R. Ritchie. Below we list the sales at $40 and over. All were Iowa buyers: Nos. 2, 23, 33 and 39, George Hinn, Laurens, $47.50, $64 and $44; Nos. 3 and 22, Freeman Gorman, Armstrong, $40 and $41; No. 4, Nels Whitman, Laurens, $45; Nos. 5, 13 and 16, Jay Tutt, Marathon, $46, $46 and $40; No. 6, A. B. Heath, Newell, $50; No. 7, Ed Tibbitt, Peterson, $50; No. 8, H. C. Foster, Storm Lake, $44; No. 10, C. L. McLaughlin, Marathon, $40; No. 11, John Holst, Jr., Denison, $67; No. 14, W. L. Foster, Storm Lake, $47.50; Nos. 15 and 20, Adolph Bahde, Sutherland, $40. No. 18, J. L. Barber, Harlan, $42; No. 25, F. W. La Doux, Spirit Lake, $40; No. 24, Herman Becker, Laurens, $40; No. 36, Alden Anderson, Ellsworth, $59. No. 37, Otis Edwards, Havelock, $53; No. 38, Oscar Swanson, Kleinme, Iowa, $43.

Peery's Duroc Jersey Sale.

While J. M. Peery, Alvord, Iowa, did not top the list of sales held this year in northwestern Iowa, he did land among the topmost when he sold his Durocs at his farm on St. Valentine's day. His average was $67 on the forty-one head driven out, topped at $132.50 by E. E. Farver, Ocheyedan, Iowa, on the big brood sow, Mollie Price 9th. Considerable of the offering was taken by breeders from a distance, while farm support from near at home bolstered up the sale when the breeders were not active. Mr. Peery has a very good class of hogs and his younger herd boar, Jessie's Chief, looks like a record maker in this herd for another year. Col. J. A. Benson, assisted by H. C. Carpenter and H. O. Tellier, were in charge of the sale. The following is a list of buyers and prices:

1. C. F. Barrett, Doon, Iowa____$105.00
2. Chas. Wenzel, Alvord, Iowa__ 65.00
3. Jos. Jones, Doon, Iowa_____ 82.00
4. Sam Bauer, Le Seuer, Minn__ 90.00
4½. Geo. Van Auken, Doon, Iowa 66.00
5. Geo. Van Auken_____ 60.00
6. Geo. Hartman, Rose Creek, Minn. _____ 97.50
8. Frank Knudson, Inwood, Ia_ 60.00
9. Mike Nagel, Rock Rapids, Ia. 78.00
10. F. Stoltenberg, Ellsworth, Minn. _____ 60.00
11. H. C. Carpenter, Hudson, S. D. 67.50
12. Raymond Meyer, Ellsworth, Minn. _____ 50.00
13. Mark Haley, Elysian, Minn__ 47.50
14. Jos. Jones _____ 85.00
15. W. C. Palmer, Tyler, Minn___ 71.00
16. G. J. Bloemendaal, Alton, Ia__ 85.00
18. W. S. Gillin, Doon, Iowa_____ 56.00
22. Ole Nelson, Inwood, Iowa____ 50.00
23. Mrs. Ida Ragness, Hills, Minn. 77.50
24. A. Sint, Rock Rapids, Iowa__ 67.50
25. Arthur Kervink, Alvord, Ia__ 82.50
26. E. E. Farver, Ocheyedan, Ia__ 132.50
27. Geo. Van Auken_____ 59.00
28. E. S. Barker, Doon, Iowa_____ 70.00
29. W. S. Gillin_____ 66.00
30. Arthur Ragness _____ 64.00
33. J. M. Glasier, St. James, Minn. _____ 65.00
34. S. G. Eliason, Montevideo, Minn. _____ 62.50
35. G. W. Hayman, Alvord, Iowa_ 51.00
36. G. W. Hayman_____ 46.00
37. F. L. Powell, Algona, Iowa__ 60.00
38. Ruebel Bros., Marathon, Iowa 67.50
39. F. Stoltenberg _____ 47.50
40. Fred Drolle, Mission Hill, S. D. _____ 90.00
41. Clarence Kelley, Alvord, Iowa 47.00
44. F. L. Powell_____ 85.00
48. McNiff Bros. _____ 50.00

SUMMARY.

41 head _____$2,694; aver_____$67

The A. R. Barnes Duroc Sale.

The A. R. Barnes Duroc Jersey sale was held on Thursday, February 13th. Mr. Barnes sold a draft of forty-seven sows from his herd. The day was ideal and one of the largest crowds of the season faced Colonel Callahan when he opened the sale. The offering was in keeping with the splendid reputation of this herd. An especial feature at this sale was the liberal buying of the farmer neighbors of Mr. Barnes. No less than twenty-five of the forty-seven head were bought by the farmers of this neighborhood. The offering sold for $3,529, an average of $75.08. Below we give a list of the sales:

1. A. W. Lamb, Albion, Neb____$135.00
2. F. B. Nelson, Lindsay, Neb__ 140.00
3. Jno. Bader, Scribner, Neb___ 130.00
4. Clarence Wallace, Wisner, Neb. 90.00
5. Wm. Moderow, Beemer, Neb__ 102.50
6. M. O. Froisted, Newman's Grove, Neb. _____ 72.50
7. C. E. Peterson, Genoa, Neb__ 73.00
8. J. O. Froisted, Newman's Grove, Neb. _____ 72.50
9. John Bader _____ 67.50
10. Ivers Byerly, Petersburg, Neb _____ 76.00
11. Roy Blough, Loretto, Neb___ 66.00
12. F. W. Sellers, Ainsworth, Neb. 70.00
13. W. E. Hershberger, Ainsworth, Neb. _____ 62.00
14. Roy Blough _____ 67.00
15. Lloyd Bristell _____ 57.50
16. Joe Pelster, Petersburg, Neb. 70.00
17. Robt Leisy, Wisner, Neb____ 75.00
18. Frank Cartwright, Loretto, Neb. _____ 67.50
19. R. Widle & Son, Genoa, Neb__ 87.50
20. T. A. Bunker, Loretto, Neb__ 70.00
21. Roy Brittell, Elgin, Neb_____ 65.00
22. Thos. Thomason, Loretto, Neb. 77.50
23. Ed Lybel, Elgin, Neb_____ 70.00
24. Roy Brittell _____ 67.50
25. J. S. Golder, Scribner, Neb___ 130.00
26. John Thomason, Loretto, Neb. 60.00
27. Roy Brittell _____ 63.00
28. John Bader _____ 85.00
29. F. A. Lemmerman, Creston, Neb. _____ 100.00
30. A. Byerly, Petersburg, Neb__ 70.00
31. N. J. Nelson, Newman's Grove, Neb. _____ 80.00
32. Gus Kruger, Beemer, Neb___ 110.00
33. Mr. Lyfeld, Petersburg, Neb. 70.00
34. Ben Armstrong, Elgin, Ill___ 70.00
35. W. E. Hirshberger, Atkinson, Neb. _____ 70.00
36. Glen Blough _____ 55.00
37. Henry Asse, Bradish, Neb___ 62.00
38. A. Greenwood, Albion, Neb__ 56.00
39. Glen Blough _____ 53.00
40. R. N. Hastings, Albion, Neb_ 82.00
41. Jones Ludquist, Scribner, Neb. 55.00
42. Joe Pelster _____ 46.00
43. Millard Bloom, Loretto, Neb__ 1.00
44. W. E. Reetzel, Genoa, Neb___ 43.00
45. T. A. Evans, Oakdale, Neb___ 40.00
46. G. E. Samuelson, Osceola, Neb. _____ 46.00

Theobold's Duroc Sale.

J. C. Theobold, Ohiowa, Neb., held a very nice sale of Durocs at his farm on February 12th. The offering was one of exceptional merit, of excellent blood lines and sold at such prices that they are sure to make their buyers money. We believe the greatest values for the money spent were secured in this sale, of all the Duroc sales we have attended. The average of $37 represents a profit to Mr. Theobold and he was well pleased with the results. A good attendance of breeders was on hand and bought most of the offering. Col. W. J. Thompson did the selling in a very efficient manner. Those selling for $35 or more are listed:

1. D. S. Cochran, Lincoln, Neb____$45
2. R. A. Wilson, Strang, Neb_____ 56
3. G. G. Ricker, Guide Rock, Neb__ 42
4. R. W. Mastin, Tobias, Neb_____ 50
5. F. E. Waterman, Ohiowa, Neb___ 41
6. J. G. Snodgrass, Ohiowa, Neb___ 38
7. W. M. Putman, Tecumseh, Neb__ 50
8. H. O. Harney, Aurora, Neb_____ 37
10. V. H. Beggs, Exeter, Neb_____ 41
11. Geo. Briggs & Son, Clay Center, Neb. _____ 43
13. Mr. Sharpe, Ohiowa, Neb_____ 40
15. L. R. Hill, Geneva, Neb_____ 35
16. E. Semler, Dorchester, Neb_____ 41
17. J. F. Tyrell, Goehner, Neb_____ 35
20. Amos Eigsti, Milford, Neb_____ 42
24. Henry Wolf, Ohiowa, Neb_____ 35
27. Fred Elliot, Ohiowa, Neb_____ 45
41. Herman Wranke, Ohiowa, Neb___ 36

Van Patten & Sons' Duroc Sale.

One of the choicest offerings of Durocs that has gone out from the Van Patten herd in recent years was sent forth on February 19th, and they met with only fair demand. There were plenty of breeders and farmers at the ringside and the bidding was snappy up to a certain point, but it was out of the question to realize full value for these hogs. Local conditions and, in fact, the conditions all over the south Platte country of Nebraska are not such as to tend to make strong buyers. Few farmers have enough corn for their horses and, while there is a big crop in the northeastern part of the state and in Iowa, yet it makes rather expensive feed by the time it gets to the farms of the south Platte country. The disease situation is and has been a big factor in keeping prices down in this part of the country, as there is scarcely a section anywhere but that has been visited recently. However, these gentlemen send forth a lot of good hogs, and while they were not bought high they were really appreciated by those present. This is one of the oldest and best firms of Duroc breeders in Nebraska. A. J. Duerr, Milford, Neb., topped the sale on the exceptionally choice young sow, Lot 26 of the catalog. Colonels Callahan and Kraschel did the selling. The forty head averaged $48. Those seiling for $40 or more are listed:

1. J. O. Bayne, Aurora, Neb_____$ 87.50
2. Henry Brehm, Sutton, Neb___ 55.00
3. R. Widle & Son, Genoa, Neb__ 50.00
4. H. H. Koenig, DeWitt, Neb__ 52.50
7. Grant Stickney, Loup City, Neb. _____ 47.50
8. J. E. Forke, Malcolm, Neb___ 45.00
9. E. J Brown, Osceola, Neb___ 52.50
11. Alta Alshouse, Ulysses, Neb. 48.00
12. W. E. Otto, Surprise, Neb____ 50.00
13. G. E. Samuelson, Osceola, Neb. _____ 53.00
14. Aug. Kuhnke, Sutton, Neb___ 40.00
15. H. C. Acker, Grafton, Neb___ 42.00
16. Ed H. Magowan, Gibbon, Neb. 49.00
17. Ed Weston, Sutton, Neb_____ 46.00
18. A. F. Hoffman, Stockham, Neb. 41.00
19. C. B. Dennis, Sutton, Neb___ 40.00
21. G. H. Matteson, Sutton, Neb_ 41.00
22. J. E. Forke_____ 45.00
23. Grant Stickney _____ 42.00
26. A. J. Duerr, Milford, Neb____ 120.00
27. Clarence Wallace, Wisner,

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I'll Give You the Use of a Genuine Galloway Gasoline Engine on Your Own Farm for Three Months ABSOLUTELY FREE! Read My Great Offer NOW!

1¼ H. P. to 15 H. P. $29.75 Up

Listen! Read this carefully! There isn't one farmer in the country—no, not a single one—who can afford to miss this offer. I positively know this to be the most liberal engine offer that has ever been made. I'll let you take a genuine Galloway Engine—let you pick any size or style you want from 1¼ H. P. to 15 H. P.—let you take it right to your own farm for 30, 60 or 90 days' trial **absolutely free.** Yes, I mean it, **absolutely free;** you don't take a **cent's** worth of risk. Don't take anybody's word about a gasoline engine—find out the truth for yourself. Get my engine and put it right to work. Use it just as though it were your own. Test it any way you want to. **Make it prove its SUPERIORITY to engines costing two or three times as much!** Take your time. I won't hurry you—don't you let anybody else hurry you. If you aren't ready at the end of a month, tell me and I'll let you keep it two or three months longer—all free. Then you'll know! Then you'll either tell me, "Galloway, I know I can't beat your engine at any price"—or you'll send it right back to me and I'll pay the freight both ways, so that you won't be a cent out of pocket!

The Only Way Is the Galloway

Selling Direct from Factory to Farm

I'm going to turn the engine world upside down with this offer. It's a wonderful offer— the most liberal engine offer anybody ever thought of. But that's the way I do business. I won't take a man's money until he is thoroughly, absolutely and permanently satisfied. That's why 125,000 farmers say: "The only way is the Galloway."

Here Is the Strongest Proof of All

E. L. Davis, South Gibson, Pa. I wish to say that the 5 H. P. gasoline engine I bought of you has given perfect satisfaction. I have used it on a three-horse threshing cleaner this fall, and have recommended your make of engine to everyone, both in price and quality. Two parties, especially, who own an _____ engine, admitted to me that my Galloway Engine was much simpler than theirs and run just as nice. I will do what I can for your business in my neighborhood.

Joe A. Oliver, Seneca, Neb. Received your 5 H. P. engine about six months ago and it has never given me a minute's trouble since. Had an _____ and a _____, but the Galloway has them all skinned a city block. Have been working two days on another make to get it to run, but it isn't built to run.

Em Probst, Kennedale, Texas. I received the engine all O. K. and it is the simplest and smoothest running engine I ever saw. I have been running engines over 25 years and I would not give the 5 H. P. Galloway for any one I ever saw. Everyone that sees my engine says its a dandy. I am running a ten-cow dairy and I run a cream separator, and churn and pump, sausage mill and grist mill and am to get me a wood saw and an emery wheel and grindstone attached to engine. Anyone can run it. I can start it and go about my work, and I want to say it has the best governor that I ever saw.

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If you do keep the Galloway, you won't have to pay for anything but pure engine value. I'll sell it to you at **actual cost to make** with just one small factory profit added. I'll save you **all the middleman's profits—put $50 to $300 in your pocket right at the start.**

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It's the biggest, finest thing I ever did. I can't explain it here—I'll have to write you a personal letter. But here's the gist of it. I'll show you how to get a Galloway engine partly or entirely **without a cent of cost to you,** no canvassing or soliciting either. **Get this offer sure.**

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28.	W. S. West, Hanna City, Ill.	60.00
30.	Harry Pfander, Clarinda, Ia.	50.00
31.	John Pritchard, Sutton, Neb.	41.00
33.	H. O. Harney, Aurora, Neb.	40.00
34.	G. H. Matteson	40.00
35.	Geo. Reutzel, Sutton, Neb.	38.00
36.	Grant Stickney	41.00
37.	J. M. Harvey, Salem, Ore.	40.00
38.	O. G. Smith & Son, Kearney, Neb.	51.00
39.	A. A. Russell, Geneva, Neb.	47.00
49.	Geo. Reutzel	40.00

Briggs & Sons' Duroc Jersey Sale.

It is, or at least should be, some satisfaction to a breeder to be able to present an offering of Durocs that will stand right at the head of the season's offerings for excellence, even though they do not bring as much money as they should, and this condition is the sort that prevailed at the recent sale of Durocs made by Geo. Briggs & Sons, Clay Center, Neb., on February 18th. Only one or two other offerings in Nebraska south of the Platte river were up to this offering, and purchases at such sales are sure to result in much good for the men who buy. The forty head at the Briggs farm were sold for an average of $53 per head. C. H. Koenig, Plymouth, Neb., topped the sale on Lot 28 at the low price of $87.50. This sow was easily worth twice the money, but as the offering was so uniform the buyers seemed to think there was no necessity of going higher, as they would about leave have some of the others. Colonel Callahan did the selling in a very efficient manner. Those selling for $40 or more are listed:

1.	Wm. Hovaelt, Fairfield, Neb.	$68.00
2.	Emil Anderson, Edgar, Neb.	55.00
3.	Wm. Husing, Doniphan, Neb.	48.00
4.	C. E. Higginbotham, Hastings, Neb.	53.00
5.	Albert Christiansen, Minden, Neb.	49.00
6.	Joe Nejezchleb, Spring Ranch, Neb.	48.00
7.	W. T. Townsley, Giltner, Neb.	53.00
8.	T. H. Davis, Deweese, Neb.	56.00
9.	Fred Vieselmeyer, Carleton, Neb.	42.00
10.	Carl Louden, Clay Center, Neb.	45.00
11.	Geo. Davis & Son, Milford, Neb.	68.00
12.	John Zdychynee, Clay Center, Neb.	48.00
13.	Chas. Crawford, Fairfield, Neb.	46.00
14.	Reuben Letwiller, Milford, Neb.	46.00
15.	Merwin Ramsey, Trumbull, Neb.	44.00
16.	Ed A. Baxter, Pawnee, Ill.	50.00
18.	J. E. Rowe, Stockham, Neb.	77.50
19.	G. W. Hager, Litchfield, Neb.	46.00
20.	H. J. Hoegh, Hampton, Neb.	56.00
21.	C. E. Higginbotham	45.00
22.	John Weyenburg, Fairfield, Neb.	65.00
23.	Edgar Kissinger, Fairfield, Neb.	67.50
24.	Thos. Townsley, Giltner, Neb.	48.00
25.	Frank Nejezchleb, Spring Ranch, Neb.	46.00
26.	S. J. Tillman, Regan, Neb.	60.00
28.	C. H. Koenig, Plymouth, Neb.	87.50
29.	Albert Christiansen	59.00
30	C. E. Higginbotham	41.00
31.	Martin Kelley, Verdon, Neb.	50.00
32.	S. J. Tillman	51.00
33.	Geo. W. Schwab, Clay Center, Neb.	49.00
34.	A. J. Duerr, Milford, Neb.	56.00
35.	E. E. & N. T. Youngs, Lexington, Neb.	52.00
36.	E. E. & N. T. Youngs	51.00
38.	Geo. W. Schwab	42.50

The Menzie Poland China Sale.

Below is a complete list of the F. P. Menzie Estate dispersion sale of Poland Chinas, held at Hampton, Iowa, February 4, 1913. The sale was well attended and an average of $47 was made on the aged sows and gilts, this being the highest average ever made in that vicinity in a sale of hogs of any breed:

4.	A. E. Nolte, Hampton, Iowa.	$62.00
5.	J. H. Woodley, Hampton, Ia.	50.00
6.	A. D. Severe, Dows, Iowa.	60.00
7.	F. Eberhardt, Hampton, Iowa.	60.00
8.	John Peters, Ackley, Iowa.	63.00
9.	A. E. Nolte, Hampton, Iowa.	67.00
10.	Silas Harris, Latimer, Iowa.	57.00
11.	Chas. Scantlebury, Hampton, Iowa	56.00
12.	Fred Morhing, Hampton, Ia.	53.00
13.	C. F. Adams, Owassa, Iowa.	50.00
14.	S. G. Wolfe, Hampton, Iowa.	45.00
15.	E. E. Esslinger, Sheffield, Iowa	49.00
16.	W. S. Austin, Dumont, Iowa.	50.00
17.	Guy Green, Hampton, Iowa.	43.00
18.	J. F. Delong, Bristow, Iowa.	45.00
19.	L. G. Hickman, Geneva, Iowa.	39.00
20.	C. C. Baber, Hampton, Iowa.	39.00
21.	A. D. Severe, Hampton, Iowa.	49.00
23.	L. G. Hickman	39.00
24.	O. R. Meyers, Hampton, Iowa.	46.00
25.	L. G. Hickman	40.00
26.	L. H. Beed, Hampton, Iowa.	40.00
29.	J. W. Davis, Williams, Iowa.	40.00
30.	J. P. Brown, Hampton, Iowa.	48.00
31.	L. G. Hickman	45.00
32.	S. G. Wolfe, Hampton, Iowa.	41.00
33.	A. L. Serfus, Bristow, Iowa.	51.00
34.	Peter Miller, Hampton, Iowa.	41.00
35.	D. Vought, Hampton, Iowa.	37.00
36.	Guy Green	40.00
37.	Wm. Anderson, Coulter, Iowa.	35.00
38.	Grover Banker, Chapin, Iowa.	46.00
39.	T. E. March, Geneva, Iowa.	30.00
40.	F. L. Bender, Hampton, Iowa.	41.00

The Jones Poland China Sale.

A. D. Jones, Dunlap, Iowa, made a public sale of Poland China brood sows on February 10th, at which sixty-six head were disposed of at the very verifying average of $52.47. Quite a large proportion of them were obtained by local buyers. The consignment was in excellent condition and Col. H. S. Duncan performed his part in his usual pleasing manner. Below we give a list of those sold at $40 or over:

1.	J. C. Wilson, Ladoga, Iowa.	$ 47.50
2.	John Smith, Ogden, Iowa.	47.50
3.	J. J. Walsh, Vail, Iowa.	47.50
4.	C. C. Polly, Whiting, Iowa.	42.50
5.	J. C. Hannigan, Dunlap, Iowa	42.50
8.	John Smith	60.00
9.	J. C. Bailey, Marshalltown, Iowa	67.50
10.	A. H. Dennison, Dunlap, Iowa	55.00
11.	J. J. Walsh, Vail, Iowa.	57.50
12.	Jas. Quinn, Dunlap, Iowa.	55.00
14.	D. Clark, Dow City, Iowa.	47.50
16.	C. H. Bohm, Buck Grove, Ia.	60.00
18.	Jas. Quinn	47.50
19.	F. Jackson, Dunlap, Iowa.	42.50
20.	S. W. Thomas, Dunlap, Iowa	47.50
21.	A. Anderson, Dunlap, Iowa.	45.00
22.	H. H. Bremmer, Dunlap, Ia.	52.50
23.	John Smith	55.00
24.	John Smith	47.50
25.	F. Newcom, Beloit, Iowa.	42.50
26.	H. C. Pryor, Dunlap, Iowa.	50.00
27.	F. Meyers, Schleswig, Iowa.	60.00
28.	J. C. Wilson	40.00
28½.	John Smith	67.50
29.	John Smith	80.00
30.	F. Meyers	70.00
31.	J. Ferman, Deloit, Iowa.	50.00
32.	John Smith	40.00
33.	H. H. Bremmer	47.50
34.	John Smith	47.50
35.	H. S. Garnet, Woodbine, Ia.	57.50
38.	A. Harrington, Vail, Iowa.	65.00
41.	J. C. Hannigan	52.50
43.	S. Brazzle, Dow City, Iowa.	42.50
44.	J. J. Walsh	50.00
45.	Geo. Kearns, Dow City, Iowa	62.50
46.	John Smith	52.50
47.	H. H. Bremmer	47.50
48.	John Smith	75.00
49.	A. H. Dennison	47.50
51.	B. Becker, Dunlap, Iowa.	52.50
60.	H. H. Bremmer	45.00
64.	Myron Bell, Denison, Iowa.	55.00
66.	B. Becker	57.50
67.	H. H. Bremmer	40.00
68.	John Smith	60.00
70.	Ross Hill, Jefferson, Iowa.	192.50
74.	A. Andrews	62.50
71.	Myron Bell	57.50
72.	J. C. Bailey	147.50
72½.	F. W. Pearsell, Dow City, Iowa	57.50

The Cockerton Poland China Sale.

Forty head of the tops in the James Cockerton Poland China sale made an average of $46.67. The offering was in splendid condition and deserved more money. It was an offering that any breeder could be proud of and those who attended the sale got good bargains. The local people were slow to take hold, but the attendance from the outside was quite strong. Col. Will Duncan cried the sale. Below we list those selling for $40 and over:

2.	C. C. Polly, Whiting, Iowa.	$65.00
3.	A. J. Larson, Whiting, Iowa.	50.00
4.	Robt. Hornby, Mapleton Iowa	52.00
5.	Dave McNeill, Castana, Iowa.	40.00
6.	H. Zentmire, Dakota City, Neb.	41.00
8.	Whiting Farm, Whiting, Iowa.	47.00
9.	Whiting Farm	66.00
12.	Jas. Crabb, Bronson, Iowa.	48.00
14.	W. M. Shrader, Stuart, Iowa.	51.00
15.	A. T. Jepson, Moorehead, Ia.	60.00
17.	W. A. Hale, Onawa, Iowa.	50.00
18.	Chas. Ballard, Whiting, Iowa.	41.00
19.	A. T. Jepson	60.00
20.	J. H. Sonberg, Moorehead, Ia.	42.50
21.	Geo. J. Mohrhausen, Danbury, Iowa	48.00
23.	W. W. Griffith, Lake City, Ia.	47.50
24.	Ivers Sorenson, Whiting, Ia.	48.00
26.	O. P. Woodward, Rodney, Ia.	45.00
27.	F. B. Lighthall, Lawton, Iowa	40.00
28.	J. H. Sonberg	43.00
31.	W. W. Griffith	55.00
32.	I. G. Turner, Odebolt, Iowa.	41.00
35.	W. W. Griffith	67.50
36.	Albert Waddell, Allen, Neb.	43.00
38.	Henry Cramer, Onawa, Iowa.	67.50
40.	Roy Crawford, Whiting, Ia.	70.00
41.	O. C. Nicholson, Lohrville, Ia.	42.50
42.	J. H. Sonberg	43.00
43.	Soren Johnson	40.00
49.	F. B. Lighthall	41.00

The Jepson Poland China Sale.

The Poland China sale of A. T. Jepson, at Moorehead, Iowa, on February 15th, was well attended and he sold a very useful offering. A number of his sows were bred a trifle late or they would have gone higher. No. 2 of the catalog was the top and went to O. N. Lewis, Mapleton, Iowa, at $59. No. 1 was a close second and went to C. M. Pederson at $59. Below is a list of those selling for $35 and above:

1.	C. M. Pederson, Dunlap, Iowa.	$59
2.	O. N. Lewis, Mapleton, Iowa.	61
3.	Mike Mikkleson, Moorhead, Ia.	50
4.	Axle Peterson, Moorhead, Iowa.	45
5.	Chris Nicholizer, Moorhead, Ia.	58
6.	Mike Mikkleson	40
7.	John H. Johnson, Moorhead, Ia.	38
8.	B. F. McCord, Moorhead, Iowa.	40
9.	R. Rounsberg, Moorehead, Iowa.	34
10.	W. J. Masters, Mapleton, Iowa.	55
11.	C. H. Dougaard, Moorhead, Ia.	46
12.	C. H. Dougaard	35
13.	Chris Nicholizer	41
14.	Hans Nelson, Moorhead, Iowa.	40
15.	John Hansen, Little Sioux, Iowa	40
17.	John Hansen	33
20.	W. A. Hale, Onawa, Iowa.	55
21.	C. H. Dougaard	39
25.	Mike Mikkleson	37
26.	Mike Mikkleson	35

SUMMARY.

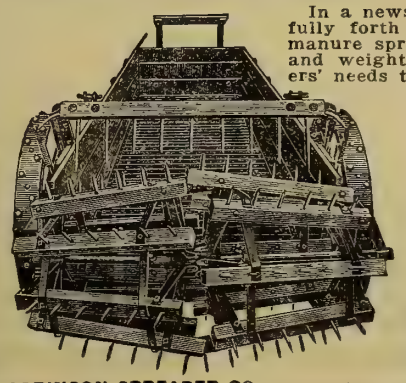
39 head averaged $37.50

The Humerick Poland China Sale.

The sale of C. M. Humerick at Atlantic, Iowa, on February 15th, was well attended and his entire offering made an average of $52. It was a good sale and the crowd was large and eager to buy sows. Col. N. G. Kraschel cried the sale. Below we list those seling for $40 and over:

1.	E. C. Huff, Wiota, Iowa.	$55.00
2.	John Sarsfield, Atlantic, Ia.	62.00
3.	L. B. Williams, Villisca, Ia.	58.00
4.	John Sarsfield	57.00
5.	Max Beckhart, Atlantic, Ia.	49.00
6.	James Bailey, Atlantic, Iowa.	50.00
7.	W. M. Shrader, Stuart, Iowa.	56.00
8.	G. B. Berg, Atlantic, Iowa.	60.00
9.	G. B. Berg	50.00
10.	John Sarsfield	55.00
11.	J. M. Sheehan, Stuart, Iowa.	55.00
12.	J. B. Petinger, Adair, Iowa.	64.00
13.	C. H. Weston, Carbon, Iowa.	52.00
14.	Sid Reed, Monteith, Iowa.	50.00
15.	L. B. Williams	59.00
16.	G. B. Berg	45.00
18.	Art Mountain, Cumberland, Ia.	50.00
19.	Wm. Edwards, Atlantic, Iowa	62.00
20.	R. R. Turner, Atlantic, Iowa.	51.00

The Spreader That Spreads.



In a newspaper advertisement we cannot set fully forth the merits and advantages of this manure spreader. Its size and style and width and weight make it more suitable to the farmers' needs than any other on the market. It has a capacity of 60 cu. ft. It is low and easy to load, the front and hind wheels track with each other and track with a farm wagon. Being narrow, it is handy to drive into a barn and easy to back into a shed. Its weight is 1,420 lbs. and two good farm horses handle it easily under all ordinary conditions. Its operating parts are simple, strong and serviceable, guaranteed to do the work a manure spreader is intended to do. The sectional cylinder rotates outwardly and spreads to the width of the wheel tracks. It is an ideal spreader. Your implement dealer should handle it. Write for our latest folder describing it. Address

ROBINSON SPREADER CO. - - - - - - VINTON, IOWA

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., - 515 Popular Building - Des Moines, Iowa

22. J. B. Petinger---------- 54.00
23. R. E. Dreyer, Atlantic, Iowa-- 48.00
24. C. H. Weston---------- 51.00
25. N. H. Johnson, Elkhorn, Iowa 54.00
26. John W. Fox, Atlantic, Iowa- 50.00
27. J. B. Petinger---------- 77.50
28. Wm. Lentz, Ankeny, Iowa---- 53.00
29. W. M. Shrader---------- 50.00
30. C. A. Spry, Wiota, Iowa------ 43.00
31. Henry Stormer, Atlantic, Ia-- 45.00
39. W. M. Shrader---------- 42.00

Mousel Bros. and Others' Hereford Sale.

An average of $221.84 per head on the 114 head in the joint sale of Herefords made at Grand Island, Neb., on February 14th and 15th, under the management of Mousel Bros., was the sort of sale held and certainly is indicative of the strong demand that is manifest for Hereford cattle and should be a matter of much encouragement to all lovers of good cattle. The consigners, which included twelve prominent Hereford men of Nebraska and Missouri, were far sighted enough to include only good breeding stock, and with the exception of a few head the cattle were really very choice. A little more flesh would have been very acceptable on many of the cattle and a few consignments suffered materially for this reason. The buyers were gathered from Iowa, Missouri, Kansas, Idaho, Wyoming, Colorado, Minnesota and Nebraska. The first day of the sale made an average of practically $300, but in this average were included the two highest priced animals of the sale. The get of Beau Mischief, consigned by Mousel Bros., Cambridge, Neb., were the chief attractions of the sale. The writer had made the statement before the sale that as good bulls as we had seen pass through a sale ring in years would be in this sale. We are glad to know that they were appreciated. The top of the sale was a Beau Mischief bull, Beau Contender, and he went to Wm. Hutcheon, Bolckow, Mo. His brother, Beau Lindell 2d, went to the old established herd of Gudgell & Simpson, Independence, Mo. This is the first bull that has been purchased by this firm in many years and it is certainly some distinction to be able to supply such breeders. Only three head sold below $100, and they at $90 or above. Col. Z. S. Branson and E. D. Snell did the selling. The entire list of sales follows:

BULLS.

Don Augustus, calved June, 1911; Will Henn, Denver, Colo---------$335
Beau Donaldbain, calved December, 1911; E. C. Rodwell, Cambridge, Neb. ---------- 210
Beau Allo, calved July, 1911; John Saylor, Campbell, Neb---------- 175
Beau Carlos 10th, calved October, 1911; Phil McCormick, Julesburg, Colo. ---------- 250
Beau Mischief 21st, calved May, 1911; Will Henn---------- 125
Beau Mischief 27th, calved January, 1912; Carl Thompson, Indianola, Neb. ---------- 340
Beau Mischief 47th, calved May, 1912; A. Goodreaux, Campbell, Neb. ---------- 200
Beau Carlos 4th, calved November, 1911; Phil McCormick ---------- 195
Beau's Contender, calved November, 1911; Wm. Hutcheon, Bolckow, Mo. ---------- 950
Beau Lindell 2d, calved May, 1912; Gudgell & Simpson, Independence, Mo. ---------- 925
Beau Mischief 31st, calved May, 1911; Andy Rosenfelt, Max, Neb-- 275
Beau Monington, calved January, 1912; E. D. Gorman, Lineville, Ia. 340
President Astor 2d, calved April, 1911; E. L. Clayton, Central City, Neb. ---------- 170
Principal 3d, calved November, 1911; D. C. Ballentine, Curtis, Neb. 170
Principal 10th, calved February, 1912; Chris. Bueckow, Grand Island, Neb. ---------- 155
Principal 16th, calved November, 1911; Will Henn---------- 125
The Princeps 8th, calved October, 1911; W. H. Hunter, Encampment, Wyo. ---------- 190
The Bull Moose, calved April, 1912; Thos. Mortimer, Madison, Neb--- 450
A Principal, calved September, 1911; A. L. Lutton, Cozad, Neb--------- 310
San Toy, calved December, 1911; Will Henn ---------- 210
Beau Mischief 62d, calved October, 1911; Will Henn---------- 270
Beau Mischief 64th, calved December, 1911; C. E. Clough, Lyons, Neb. ---------- 205
Nebraska Special, calved September, 1911; D. C. Ballentine---------- 170
Beau Ingram, calved January, 1912; Thos. Mortimer ---------- 335
Beau Beauty, calved February, 1912; A. Wickstrom, Hershey, Neb---- 195
Beau Forest, calved March, 1912; L. H. Robinson, Moorcroft, Wyo---- 200
Beau Morton, calved March, 1912; Will Henn ---------- 260
Beau Idam, calved April, 1912; John Tyce, Lincoln, Neb---------- 115
Regulator 2d, calved February, 1911; Andy Norrell, No. Park, Colo. ---------- 185
Mason, calved April, 1912; Fred Stodley, Grand Island, Neb------ 165
Autocrat, calved February, 1912; Thos. Mortimer ---------- 150
Banker, calved February, 1912; Peter Kennan, Grafton, Neb------ 175
Dan, calved April, 1909; John Griffith, Maxwell, Neb---------- 385
Polled Fortune, calved December, 1911; C. M. Cottrell, Imperial, Neb. 205
President Astor 4th, calved January, 1912; L. H. Robinson------- 200
Dean 2d, calved April, 1912; E. A. Slover, Sidney, Neb---------- 150
Grover, calved April, 1912; Fred Storey, Holbrook, Neb---------- 125
Princeps Alfonso, calved November, 1910; W. H. Hunter---------- 180
Wheeler, calved June, 1911; Andy Norrell ---------- 300
Colonel, calved June, 1911; Andy Norrell ---------- 280
Omaha, calved June, 1911; L. E. Potter & Son, Springfield, Minn.-- 330
St. Joe, calved June, 1911; Andy Norrell ---------- 260
Gordon, calved April, 1911; C. E. Clough ---------- 195
Coupon, calved August, 1911; L. B. Storer, Grand Island, Neb------- 195
St. John, calved July, 1911; Andy Norrell ---------- 275
Valentine, calved December, 1911; J. C. Osborne, Meadow Grove, Neb. ---------- 200
Mason, calved May, 1912; F. C. Carleson, Chappell, Neb---------- 185
Maxwell, calved May, 1912; F. Traite, Sartora, Neb---------- 155
Wilson, calved May, 1912; D. C. Ballentine ---------- 125
Norris, calved May, 1912; W. H. Hunter ---------- 155
Solomon, calved May, 1912; Thos. Jeffrey, Norcatur, Kan---------- 200
Harold, calved June, 1912; R. L. Fahlstrom, Concordia, Kan------ 185
Howard, calved June, 1912; Hans Schiel, Grand Island, Neb------- 180
Hubert, calved June, 1912; Dr. Watkins, Cambridge, Neb---------- 135
King Herod, calved June, 1912; L. H. Robinson ---------- 250
Mutt, calved June, 1912; H. F. Skolil, Comstock, Neb---------- 205
Princeps A. R., calved 1908; J. E. Deming, Broken Bow, Neb------- 350
Dolan, calved February, 1912; Thos. Shaffrey, Oxford, Neb---------- 185
Bob, calved February, 1912; D. C. Ballentine ---------- 135
Morton, calved February, 1912; F. O. Carlson ---------- 200
Surprise, calved September, 1911; L. H. Robinson ---------- 170
Clipper, calved March, 1911; Will Henn ---------- 250
Topsy's Prince, calved July, 1911; Alfred Springer, Sidney, Neb---- 175
Louis, calved August, 1911; Geo. Landgren, Ong, Neb---------- 170
Beau Aster, calved May, 1912; Otto Faulcher, Holyoke, Colo--------- 600
Moon Change 4th, calved June, 1911; R. G. McKinney, Beloit, Kan---- 300
Moon Change 3d, calved June, 1911; E. E. Harrison, La Veta, Colo---- 560
Blue Bull, calved January, 1908; Nels Jorgensen, Ord, Neb-------- 175
Beau Mischief 32d, calved October, 1911; W. H. Hunter---------- 185
Principal 14th, calved March, 1912; Andy Morrell ---------- 145
Beau Mischief 30th, calved May, 1911; Harry Williams, Gothenburg, Neb. ---------- 260

COWS.

Bangle 16th, calved November, 1910; W. D. Mysenburg, David City, Neb. ---------- 175
Blanche 59th, calved January, 1910; Mousel Bros., Cambridge, Neb--- 155
Blue Bell 27th, calved March, 1910; L. H. Robinson---------- 165
Bright Duchess 61st, calved March, 1910; A. Wickstrom---------- 150
Capitola B. 4th, calved January, 1911; H. & H. Kerr, Brady Island, Neb. ---------- 150
Domette 4th, calved March, 1909; D. C. Ballentine ---------- 215
Dorana 20th, calved November, 1908; Mousel Bros---------- 425
Dulcinea 17th, calved September, 1910; F. W. Mues, Edison, Neb--- 285
Lovely 5th, calved 1909; E. E. Harrison ---------- 175
Grateful 6th, calved September, 1910; L. H. Robinson---------- 300
Grebe 7th, calved March, 1910; E. E. Harrison ---------- 200
Marietta 33d, calved October, 1909; Henry Smith, Octavia, Neb------ 150
May Morning 3d, calved January, 1911; A. Wickstrom---------- 150
Miss Callie 5th, calved August, 1909; A. Wickstrom---------- 220
Modesty 16th, calved August, 1909; E. E. Harrison---------- 195
Peggy Picayune 3d, calved March, 1910; A. E. Sager, La Vete, Colo. 210
Pretty Lady 44th, calved February, 1910; A. Wickstrom---------- 300
Sorisis 16th, calved April, 1910; L. H. Robinson ---------- 170
Sunny Lass, calved August, 1911; E. F. Skolil---------- 100
Lura Dean, calved September, 1911; Geo. Zeller, Bellwood, Neb------- 90
Sunlight, calved August, 1911; Wm. Hutcheon ---------- 95
Lillian, calved June, 1910; A. C. Smith, Lexington, Neb---------- 155
Bonnie Bartee 4th, calved January, 1911; E. E. Harrison---------- 155
Belle Mischief 16th, calved April, 1912; Henry Smith, Octavia, Neb- 265
Belle Mischief 34th, calved 1911; Henry Smith ---------- 275
Pauline, calved August, 1910; A. E. Sager ---------- 145
Bernice 2d, calved May, 1910; E. E. Harrison ---------- 205
Miss Dictator, calved March, 1907, and c. c.; E. E. Harrison-------- 175
Emegene, calved August, 1910; E. F. Skolil ---------- 165
Dorothy, calved June, 1910, and c. c.; E. E. Harrison---------- 180
Belle Princess, calved May, 1910, and c. c.; E. E. Harrison--------- 150
Princeps Lass, calved March, 1910, and b. c.; A. E. Sager---------- 200
Maxine 2d, calved August, 1910; R. W. Davis, Ord, Neb---------- 140
Miss Princeps 24th, calved September, 1911; D. C. Ballentine------- 205
Princess 4th, calved February, 1906; John E. Painter, Roggen, Colo--- 175
Nellie, calved September, 1907, and b. c.; A. E. Sager---------- 280
Miss Dictator, calved October, 1907, and b. c.; E. E. Harrison------- 190
Miss Princeps 29th, calved January, 1908; E. E. Harrison--------- 190
Bell Hardy 5th, calved February, 1912; A. C. Smith---------- 95

SUMMARY.

41 females ----$ 7,630; aver----$186.10
73 bulls ------- 17,660; aver---- 241.91
114 head ------ 25,290; aver---- 221.84

The Fowler Poland China Sale.

One of the real good sales of Poland Chinas of central Nebraska was held by Morris Fowler, Arcadia, Neb., on February 12th. The forty head made an average of $44 and went to a number of new herds. Mr. Fowler has enjoyed a splendid trade in his nearby territory and it certainly has been due him, for he has put up a grand good lot of stuff for his customers. His great young boar, Tom Sampson, was much admired by those present and the preference for sows bred to him was very marked. Sales of $35 and over are listed. Colonel Jensen, of Iowa, did the selling:

1. J. D. Bridges, Arcadia, Neb-----$45
2. J. D. Bridges---------- 45
3. J. L. Snodgrass, Arcadia, Neb--- 46
4. Theo. Schultz, Arcadia, Neb----- 41
5. J. L. Snodgrass---------- 46
6. C. R. John, Arcadia, Neb--------- 56
7. C. Sorensen, Arcadia, Neb------- 46
8. C. R. John---------- 56
9. J. D. Bridges---------- 55
10. C. R. John---------- 56
12. S. C. Sorensen---------- 45
13. Bob Stone, Arcadia, Neb--------- 44
14. Bob Stone ---------- 41
15. F. W. Fowler, Arcadia, Neb------ 45
16. Bob Stone ---------- 41
17. E. E. Slocum, Comstock, Neb---- 44
18. Bob Stone ---------- 44
19. W. A. Lingford, Dannebrog, Neb. 50
20. R. F. Rowe, Arcadia, Neb--------- 40
21. J. B. Hughes, Arcadia, Neb------ 53
21½. J. B. Hughes---------- 53
24. Geo. Slocum, Arcadia, Neb------ 39
25. John Te Poel, Arcadia, Neb----- 40
26. Albert Johnson, Loup City, Neb. 67
27. John Te Poel---------- 63
5½. R. F. Rowe---------- 50
0. Albert Johnson ---------- 70
00. Herman Luedtke, Loup City, Neb. 62

The Phelps & Case Horse Sale.

Fairly good weather prevailed the day of the Phelps & Case horse sale at Hastings, Neb., on February 5th. There was a large crowd of out-of-town people, a few from Iowa and Colorado, but the bulk of the crowd from Nebraska. It looked very favorable for a good sale at the outset, but those most interested in the outcome of the sale were certainly disappointed. Mr. Case sold all of his horses, as he was moving away. Mr. Phelps sold all but a few head. The buyers from away were there for the very best horses, and as the competition was not as keen as it should have been for the more ordinary ones, there was a good lot of bargains. Mares were in good demand, but stallions were slow sale. The offering sold made an average of a little less than $400 per head and the buyers were C. A. Skoog, Holdredge, Neb.; H. A. Johnson, Red Cloud, Neb.; S. R. Sidders, Giltner, Neb.; W. H. Gallentine, Inland, Neb.; R. E. Bradley, Juniata, Neb.; L. Wall, Ruskin, Neb.; W. Harmon, Trumbull, Neb.; R. M. Terrill, Hastings, Neb.; Henry Uden, Hastings, Neb.; F. P. Wells, Hastings, Neb., and E. H. Goudy, Kenesaw, Neb. Col. Z. S. Branson did the selling.

Crow's Poland China Sale.

Although the sale of Crow-type Poland China sows was stopped when only about one-half the offering had been driven through the ring the sale made a good average. Thirty-seven head sold for a total of $2,609.50, making an average of $70.50. It was one of the banner offerings of the year and one of the very best that Mr. Crow has ever put in a sale ring. He will hold his postponed sale on March 12th and it will be a chance for someone to buy the best that the breed has to offer. Breeders who are still a little shy on the sow stuff that they can handle this year will do well to bear this date in mind and be at the sale to get some of this well-bred offering. Col. W. R. Ritchie cried the sale and worked rapidly to get as many of the hogs sold before the crowd was driven away by the storm. Following is a list of the sales:

1. I. J. Conrad, Melbourne, Ia--$ 77.50
2. Kluge Bros., Alta, Iowa------ 81.00
3. C. H. Drake, Hazleton, Iowa- 77.50
4. J. H. Snyder, Windom, Minn. 70.00
5. J. W. Moriarty, Webb, Iowa- 80.00
6. W. Kluge, Alta, Iowa-------- 75.00
7. S. C. Egler, Marathon, Iowa- 65.00
8. Loren Howe, Dickens, Iowa- 86.00
10. J. M. Craig, Sioux Rapids, Iowa ---------- 65.00
11. Kluge Bros. ---------- 71.00
13. J. H. Snyder---------- 65.00
15. Loren Howe ---------- 80.00
16. Kluge Bros. ---------- 91.00
17. J. W. Lane, Rhodes, Iowa---- 62.50
18. J. H. Snyder---------- 52.50
21. Kluge Bros. ---------- 65.00
23. I. J. Conrad, Melbourne, Ia-- 76.00
24. J. D. Cairns, Dickens, Iowa-- 72.50
28. O. H. Sinby, Westbrook, Minn. 100.00

WILLIAM GALLOWAY. Pres.

Shipped FREE!

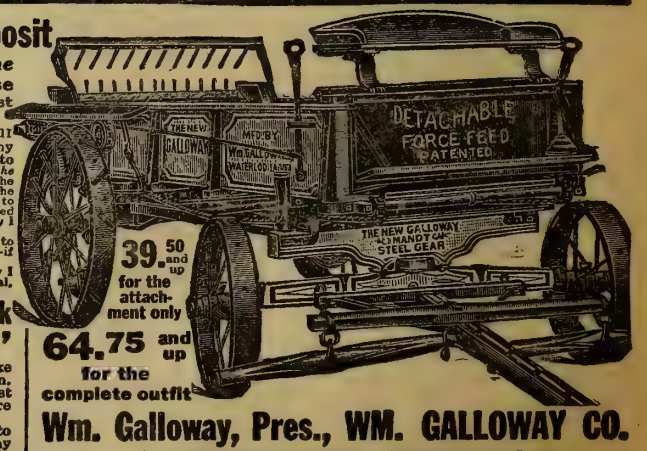
Yes, ABSOLUTELY Free—Not One Cent Down—No Bank Deposit

I don't want you to send me one cent for this spreader. No sir, *not one cent.* I don't even ask you to sign any mortgage, lease or note or even promise to buy it. I won't let you take *any* risk of any kind or nature. I'm making the most daring offer I've ever made and I'm banking on *my* spreader *and your judgment.*

Here's my plan: I'll ship you one of my new 1913 Model Galloway Spreaders right to your farm without even a dollar's deposit. I want you to take that spreader and test it in a way that would put any other spreader in the world on the scrap heap. I'll even tell you how to do it. Hunt up the toughest manure to handle you can find. If you've got any heavy, tramped-down, unrolled, frozen slough hay manure in your calf yard, *that's just the stuff to use.* If you can't find anything tough enough on *your* farm, get a load from one of your neighbors. let him watch the test, too. Drive out into the field; *get your team on the gallop* AND SLAM IT IN GEAR! Don't you worry about smashing the machine—*remember, it's a Galloway you're using now.* Besides, I'm taking the risk—*not you.* I've been putting the Galloway to tests like this for seven years. 40,000 farmers besides myself know what the Galloway will do. Study out the exclusive patented features—the things that make it easy for the Galloway to do things that would *wreck* any other machine in the world. See *why* I can make this offer, *why I can guarantee it for a year, me and back that guarantee with a $25,000 bond.*

Take a month to make up your mind—use the spreader all that time anyway you want to. Then, if you can't honestly say to me: "Galloway, your spreader is better than I ever thought a spreader could be and I don't see how I can get along without it"—if you can't say and mean every word just sent it back to me and I'll pay the freight *both* ways so you won't be out a cent.

If you want to keep it, I'll absolutely guarantee to save you $25 to $50 on the very *best spreader in the world.* That's why I say: "The Only Way is the Galloway". Selling direct from factory to farm, every middleman's profit cut entirely off; the actual, net factory price with just one small profit added.



39.50 and up for the attachment only

64.75 and up for the complete outfit

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Spreaders in Stock at Chicago, Kansas City, Minneapolis, Council Bluffs and Winnipeg

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Here's What Your Neighbors Say:

Gentlemen: I received the spreader all O. K., and have it now nearly six months. I have never had any trouble with it at all and I like it very much. I would not be without one now for a great deal. My team weighs 2200 pounds and will handle it even on plowed ground. This morning I spread a load and there was two inches of snow on the ground, but the wheels did not slip, even without the mud lugs.

Yours truly,
Walter Ensign.
Killawog, N. Y.

Dear Sir: I received your wagon box spreader and am more than pleased; it does the work far better and is much easier on the team than I expected. My little mules handle it easily and they only weigh 900 lbs. The farmers come from all around to see it work and most all say they are going to have one of them.

Yours truly,
F. J. Robinson.
Navina, Okla.

My Special 1913 Offer

I've got a new proposition for 1913 that's so much bigger and more liberal than anything I've ever been able to offer before that there's simply no comparison. Listen—if you decide to keep the Galloway after having had the free trial, I'll tell you how you may get it partly or entirely free. No canvassing—no soliciting. Just the fairest, squarest, straightest, cleanest co-operative offer that anybody ever made. I can't explain it all here and I won't try to. But I'll tell you all about it in a personal letter if you'll write me right away.

My Regular $1.00 Book "A Streak of Gold" Sent FREE Nothing else like it ever written. Tells plainly just how to produce manure, store it, treat it, care for it and use it. This book is worth $25.00.

Price regularly one dollar a copy. I'll send it to you free in addition to a full explanation of my record-breaking, 1913 proposition and my big spreader catalog so you can pick out just the spreader you want me to send you on this free offer. A postal or letter is enough. Don't lay down this paper 'till you've sent it.

29. W. A. Hargreaves, Dickens, Iowa ---------- 75.00
14. Bob Lanning, Melbourne, Ia. 103.00
69. Grant Pelley, Wel., Iowa--- 57.50
67. D. H. Snyder---------- 65.90
68. G. A. Castle, Inwood, Iowa--- 70.00
33. John Saxton, Tuesdale, Iowa- 60.00
36. Grant Pelley ---------- 53.00
39. Kluge Bros. ---------- 75.00
41. Carl Anderson, Albert City, Iowa ---------- 68.00
42. H. A. Weeldryer, Canistota, S. D. ---------- 60.00
43. Will Moriarty, Tuesdale, Ia- 75.00
45. Grant Pelley ---------- 59.00
46. Loren Howe ---------- 67.00
47. Gus Carlson, Royal, Iowa--- 69.00
48. Grant Pelley ---------- 70.00
49. Chas. Shaffer, Sioux Rapids, Iowa ---------- 69.00

SUMMARY.

37 head ------$2,609.50; aver------$70.53

Ruebel Bros.' Poland Sale.

The Poland China sale of Ruebel Bros. at Marathon, Iowa, on February 20th, in which they sold forty-eight head, brought them an average of $70.70. The sale was well attended and a large number of the sows that were sold went to some of the best breeders in the state and some to men prominent in this line of breeding outside of the state. The top of the sale was No. 1, a sow, which went to Mendenhall Bros., Audubon, Ia., at $190. A spring gilt, No. 39, sold for $142.50 to J. M. Nelson, Litchfield, Minn. A large attendance was present and the sows that were sold went to both farmers and breeders and all at pretty good prices. Col. H. S. Duncan was in charge of the sale. The following is a list of the sales and the buyers:

1. Mendenhall Bros., Audubon, Iowa ----------$190.00
2. C. L. McLaughlin, Marathon, Iowa ---------- 87.50
3. J. C. Munday, Rockwell City, Iowa ---------- 135.00
4. F. A. Davis, Marathon, Iowa- 92.50
5. H. P. Black, Marathon, Iowa 75.00
6. C. H. Deven, Rockwell City, Iowa ---------- 67.50
7. S. C. Egler, Marathon, Iowa--- 85.00
8. Sam Tillinghast, Peterson, Ia. 67.50
9. J. C. Hoag, Manson, Iowa--- 87.50
10. Geo. M. Vader, Churdan, Ia-- 135.00
11. Jackson & Hill, Jefferson, Ia- 75.00
12. C. J. Biewen, Ames, Iowa--- 82.50
13. W. Kluge, Alta, Iowa--------- 80.00
14. W. Kluge ---------- 72.50
15. J. C. McLaughlin, Marathon, Iowa ---------- 62.50
16. Frank McDowell, Rockwell City, Iowa ---------- 67.50
17. Wm. Kluge ---------- 65.00
18. J. K. Campbell, Slayton, Minn. 97.50
19. Melvin Barker, Coggon, Iowa 75.00
20. E. F. Florine, Marathon, Ia-- 57.50
21. G. A. Henning, Scranton, Iowa 65.00
22. Otis Howard, Marathon, Iowa 65.00
23. Frank Douglas, Rockwell City, Iowa ---------- 87.50
24. J. K. Campbell---------- 80.00
26. John Gridley, Morrison, Ill-- 52.50
27. E. F. Florine---------- 72.50
28. Geo. M. Vader---------- 55.00
29. J. K. Slaytno---------- 70.00
30. Chas. Thomas, Marathon, Ia- 77.50
32. W. J. Crow, Webb, Iowa----- 55.00
33. R. P. Black, Marathon, Iowa 57.50
34. Geo. Burge, Marathon, Iowa- 70.00
35. N. E. Christian, Scranton, Ia- 75.00
36. Jackson & Hill---------- 90.00
37. F. A. Schaeffer, Raleigh, Ia-- 75.00
38. A. T. Jepson, Moorhead, Iowa 70.00
39. J. M. Nelson, Litchfield, Minn. 142.50
40. J. H. Smith & Son, Belle Vernon, Pa. ---------- 55.00
46. R. Minot, Laurens, Iowa----- 57.50
47. J. A. Kerr, Ashland, Mo----- 67.50
48. A. E. Swanson, Litchfield, Minn. ---------- 50.00

SUMMARY.

49 head -------$3,409.50; aver------$70

The Jones Poland China Sale.

A very successful sale of Poland China bred sows was made by Orville O. Jones, York, Neb., on February 21st. It was a very stormy day and the attendance was small. The gathering was about equally divided between farmers and breeders and they were very liberal in their bidding, although no high prices were paid at any time. The nice average of $46.40 shows that these hogs were appreciated and they were certainly deserving of the support they received. The herd boar, Jumbo the Great, was well liked by all who saw him, and he is surely one of the great big, heavy-boned boars of Nebraska right now. He is a sire of the right sort of stuff and is becoming more and more popular each year. Mr. Jones is just one of the most careful farmers and stockmen in the central part of the state and his influence for good stock is far reaching. Those of our readers unacquainted with him and his herds and flocks will do well to know him. Colonel Callahan did the selling and those bringing $40 or more are listed:

1. J. K. Regier, Henderson, Neb---$51
2. J. L. King, York, Neb---------- 50
3. J. K. Regier ---------- 52
4. J. K. Regier---------- 67
5. A. W. Paxson, York, Neb-------- 55
6. Gilbert Johnson, Osceola, Neb--- 50
7. J. L. King---------- 64
8. J. L. King---------- 46
9. Gilbert Johnson ---------- 51
10. Odd Fellows' Home, York, Neb-- 51
11. J. K. Regier---------- 49
13. Henry Atking, Bruning, Neb---- 40
15. John Vedsted, Staplehurst, Neb-- 45
17. J. K. Regier---------- 45
18. Odd Fellows' Home---------- 48
20. G. H. Matteson, Sutton, Neb----- 40
21. A. L. Meith, Cairo, Neb---------- 45
22. J. E. Barr, York, Neb---------- 53
23. J. K. Regier---------- 50
25. J. H. Regier, Henderson, Neb--- 43
24. G. H. Matteson---------- 40
26. G. H Matteson---------- 46
27 Chas. Hansen, Edgar, Neb------- 41
28. John Vedsted ---------- 40
29. F. H. Troutman, York, Neb----- 42
30. Matt Keefe, Benedict, Neb------ 47
32. Odd Fellows' Home---------- 50
33. Odd Fellows' Home---------- 50
34. J H. Regier---------- 41
35. J. K. Regier---------- 56
36. Thos. McGraw, Geneva, Neb---- 51
38. E. E. Goobe, Benedict, Neb----- 41
39. Jas. Arnold, York, Neb---------- 43
40. J. H. Regier---------- 46
41. John Vedsted ---------- 40
00. John Cowiszee, York, Neb------- 56

Farver's Goliath Sale.

The following report of the sale of bred Poland China sows held by E. E. Farver, Ocheyedan, Iowa, although delayed in publication, will be of interest to those who breed the big type of this breed, for the class of the sows that were in this sale was about as high as those in any sale of the year. The gilts that were sired by Mr. Farver's great breeding boar, Farver's Goliath, were pronounced by all who saw them to be one of the best lots by any one sire that they had seen. Many declared that they were the very choicest that had been driven out in any ring this year. It seems too bad that the attendance of breeders who would appreciate the high quality of this offering was not greater. On the thirty-nine head sold the average was a little more than $4 each. The following is a list of the buyers:

1. Walter Pfeil, Worthington, Minn. ----------$ 52.00
2. M. P. Hancher, Rolfe, Iowa-- 54.00
3. H. W. Van Valkenburg, Osakis, Minn. ---------- 60.00
4. M. A. Maxwell, St. James, Minn. ---------- 65.00
5. R. A. Schug, Coleridge, Neb. 102.50
6. L. Yesky, Bigelow, Minn---- 50.00
7. Henry Minden, Bigelow, Minn. 52.00
8. Seigman Coyer, Ocheyedan, Iowa ---------- 47.00
10. F. A. Schaeffer, Raleigh, Ia--- 60.00
11. J. M. Peery, Alvord, Iowa---- 85.00
12. Wm. Foley, Melvin, Iowa----- 50.00
13. Jas. Wyania, Orange City, Ia. 41.00
15. J. C. Grieve, Gladbrook, Ia--- 75.00
16. F. A. Schaeffer---------- 50.00
19. M. W. Gribben, Jr., Minburn, Iowa ---------- 45.00
20. J. E. Baxter, Walnut Grove, Minn. ---------- 67.50
21. M. P. Hancher---------- 70.00
23. Henry Lewin, Hartford, S. D- 122.50
25. E. S. Barker, Doon, Iowa----- 52.50
26. E. S. Barker---------- 62.50
27. J. E. Baxter---------- 43.00
28. Chris Grotewold, Larchwood, Iowa ---------- 55.00
29. G. J. Bloemendaal, Alton, Ia- 102.50
31. Geo. Oppold, Bayard, Iowa---- 55.00
32. L. P. Silkey, Smith's Mills, Minn. ---------- 46.00
34. R. A. Schug---------- 57.50
36. E. A. Tripp, Round Lake, Minn. ---------- 45.00
37. Chris Grotewold ---------- 48.00
39. Jas. Wyania ---------- 51.00

SUMMARY.

39 head ---------$2,116; aver---------$54

The Nuckolls County Horse Breeders' Association Sale.

The Nuckolls County Horse Breeders' Association met with a very stormy day for their first annual sale that was held at the fair grounds at Lincoln, Neb., on February 20th. The bad day cut the attendance a great deal and this fact cut the range of prices very materially. There was a brisk demand for mares and some very choice young ones were sold in this sale. The state of Nebraska has at the present time a stallion law that is taking anywhere from 20 to 50 per cent off the value of practically every stallion offered for sale within the state. The fact that almost any kind of a blemish bars a stallion from standing under this law makes the buyers timid about putting a lot of good hard coin into a stallion purchase, even though he is ever so good. This law has been declared unconstitutional in the court of Howard county, Nebraska, and as the case has been appealed by the board to the higher court and was, at the time of this sale, up for a rehearing, the stallion buyers all over the state are inclined to wait until they see the final outcome of the case, and in the event that the law is upheld stallions will certainly decline in price still further. The law just mentioned has probably cost the breeders making this sale a big lot of money and is costing every stallion owner large sums all over the state. The stock sold in this sale was practically all grown by the men making the sale, and while they did not get value for their horses, yet they made a profit by growing them, even at the prices received. These men mean to stay in the business unless legislation of different sorts puts them out, and they intend to make these sales annual features. The thirty head made an average of practically $400 and the buyers were Jackson Bros., Thompson, Neb.; F. B. Good, Nelson, Neb.; B. N. Lewis, South Bend, Neb.; Fred Nuns, Geneva, Neb.; Walter Petz, Nelson, Neb.; Andy Bradley, Davenport, Neb.; G. H. Smith, Ruskin, Neb.; G. M. Clark, Raymond, Neb.; Grant Whitney, Palmyra, Neb.; John Peterson, Davey, Neb.; J. S. Gilbert, Lincoln, Neb.; W. H. Bowman, Beatrice, Neb.; Jos. Rouselle & Son, Seward, Neb.; Milton Kaufman, Fairbury, Neb.; Geo. Clark, Lincoln, Neb.; A. S. Anderson, Ruskin, Neb.; J. E. Macrum, Haigler, Neb.; J. B. Smith, Ceresco, Neb., and R. S. Hall, Clarks, Neb. Col. F. M. Woods conducted the sale.

The Halford Poland China Sale.

The sale of R. W. Halford, at Manning, Iowa, on February 21st, encountered the storm in its full fury last week and was up against it, and yet, in spite of the conditions, he sold fifty head at an average of $64.52. The top was No. 2 of sale, a daughter of Big Chief, and she went to Tim Neuhofel & Sons at $167.50. Mr. Halford sold a splendid lot of sows and had conditions been different it would have been much higher. Col. Harve Duncan cried the sale. Below we list those selling for $40 and above:

2. Tim Neuhofel & Sons, Central City, Neb. ----------$167.50
3. Andrew Stewart, Harlan, Ia- 82.50
4. W. E. Zimmerman, Neola, Ia. 137.50
5. Chas. J. Biewen, Ames, Iowa 75.00
6. Mendenhall & Sons, Audubon, Iowa ---------- 72.50
7. Geo. Bingham, Bradford, Kan. 75.00
8. W. R. Lewis, Gray, Iowa----- 72.50
9. H. A. Woods, York, Neb------ 75.00
10. O. C. Nicholson, Lohrville, Ia. 41.00
11. J. S. Price, Muscatine, Iowa- 72.00
12. C. A. Babcock, Manning, Ia- 42.50
13. C. B. Powers, Aurora, Neb--- 100.00
14. Henry Fesenmeyer, Clarinda, Iowa ---------- 67.50
16. Fred Dreher, Gray, Iowa----- 90.00
17. Fred Dreher ---------- 67.50
18. Fred Dreher ---------- 67.50
19. Fred Dreher ---------- 67.50
20. S. Green, Woodbine, Iowa----- 60.00
21. Chas. Leyden, Manning, Iowa 65.00
22. Joe Wilson, Manning, Iowa--- 40.00
23. Jackson & Hill, Jefferson, Ia- 40.00
24. John C. Nyrup, Harlan, Iowa 70.00
25. W. W. Griffith, Lake City, Ia. 57.50
26. George Bingham ---------- 75.00
27. Willard Zeller, Bagley, Iowa- 47.50
28. J. H. Healy, Manilla, Iowa--- 67.50
30. Frank McLaughlin, Coon Rapids, Iowa ---------- 42.50
31. Ellis Frick, Central City, Neb. ---------- 42.50
32. James Fitzhenry, Breda, Ia--- 41.00
33. Jackson & Hill---------- 42.50
34. Willard Zeller ---------- 42.50
35. F. H. Hassler, Manning, Ia- 140.00
36. M. P. Hancher, Rolfe, Iowa--- 105.00
37. O. C. Nicholson---------- 85.00
38. Chas. Leyden ---------- 60.00
39. John C. Nyrup---------- 122.50
40. G. H. Paul, Washington, Iowa 55.00
43. Frank Wilson, Manning, Ia--- 52.50
44. J. H. Healy---------- 55.00
46. Frank Wilson ---------- 60.00
48. G. W. Goslee, Kenton, Ohio-- 60.00
49. Willard Zeller ---------- 40.00
50. Henry Rohr, Manning, Iowa- 45.00

The Zimmerman Poland China Sale.

The big snowstorm of the winter season caught the W. E. Zimmerman sale on February 22d and yet he made an average of $41, which was very satisfactory under the circumstances. No high prices were paid, but it was an even sale. Sows bred to his splendid young boar, Pawnee's Price, were sought after and this boar made an excellent impression on those who attended the sale. He is a son of the great Smooth Price and is one of the very best in western Iowa. We list herewith those selling for $35 and over:

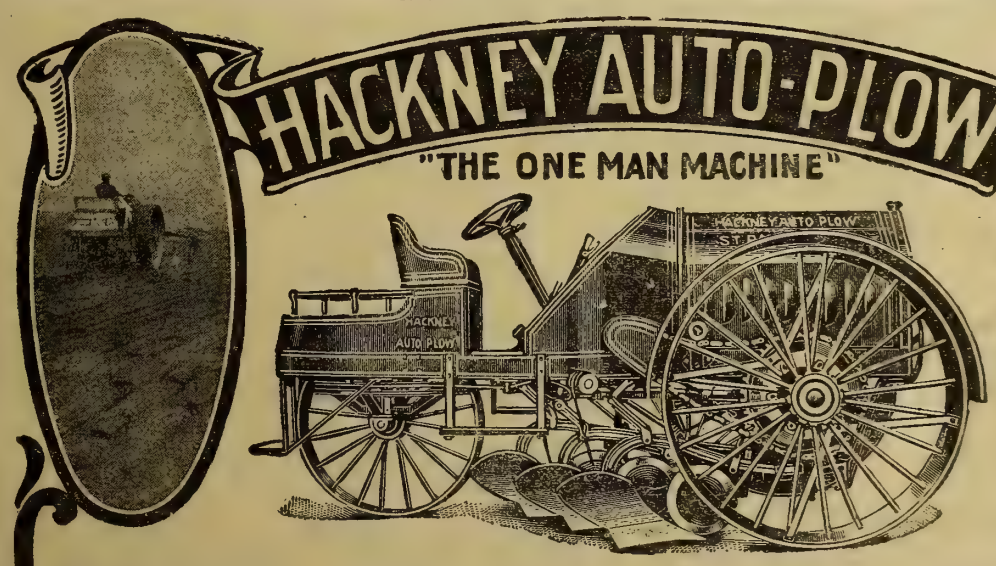
1. Harry Scott, Weston, Iowa---$57.50
2. J. W. Bell, Underwood, Iowa- 50.00
3. Carl Mark, Neola, Iowa------ 52.50
4. Henry Scott, Weston, Iowa--- 75.00
5. F. W. Dewey, Neola, Iowa---- 41.00
7. C. W. Humerick, Atlantic, Ia- 65.00
9. M. J. Doyle, Neola, Iowa------ 38.00
10. Harry Scott ---------- 55.00
11. John Hatfield, Neola, Iowa--- 35.00
12. F. Nelson, Weston, Iowa------ 47.50
13. J. A. Lewis, Neola, Iowa------ 35.00
14. F. W. Dewey---------- 42.00
15. George Gardner, Neola, Iowa--- 43.00
16. J. W. Bell---------- 47.00
17. J. J. McDonald, Neola, Iowa--- 47.50
18. Henry Scott ---------- 72.50
19. Jno. Hatfield ---------- 38.00
20. H. W. Kessler, Neola, Iowa-- 37.50
21. George Gardner ---------- 42.50
22. J. J. McDonald---------- 42.00
23. Andrew Agerson, Neola, Iowa- 37.00
24. C. W. Humerick---------- 52.50
25. George Gardner ---------- 44.00
28. H. H. Grace, Neola, Iowa---- 44.00
29. S. Nelson ---------- 41.00
30. Andrew Agerson ---------- 39.00
32. W. O. Hatfield, Neola, Iowa--- 35.00
33. W. O. Hatfield---------- 35.00
34. John Hatfield ---------- 35.00
35. W. O. Hatfield---------- 35.00
36. John Hatfield ---------- 35.00
36. John Hatfield ---------- 35.00
38. Andrew Agerson ---------- 39.00
40. Andrew Agerson ---------- 37.00
19. John Hatfield ---------- 38.00
27. John Hatfield ---------- 38.00

Gilbert Johnson's Poland China Sale.

A very successful sale of Poland Chinas was held by Gilbert Johnson, Osceola, Neb., on February 11th. The buying was snappy from the start and the good average of $41.50 was made on the forty head sold. Col. A. W. Thompson did the selling and rendered splendid service. Those selling for $35 or more are listed:

1. C. W. Lundberg, Osceola, Neb.$90.00
2. Orville O. Jones, York, Neb-- 70.00
3. Ed Seronstrum, Stromsburg, Neb. ---------- 50.00
4. A. J. Johnson, Stromsburg, Neb ---------- 48.00
5. W. F. Thalendar, Osceola, Neb. ---------- 50.00
6. P. Lindholm, Stromsburg, Neb. ---------- 55.00
7. P. Lindholm ---------- 45.00
8. G. Brook, Osceola, Neb------- 37.00
9. Wm. Deeds, Stromsburg, Neb. 60.00
10. J. W. Pfander & Son, Clarinda, Iowa ---------- 47.50
11. H. W. Johnson, Shelby, Neb-- 41.00
12. Wm. Deeds ---------- 47.50
13. Orville O. Jones---------- 40.00
14. C. W. Lundberg---------- 39.00
15. C. W. Lundberg---------- 35.00
17. Wm. Deeds ---------- 41.00
19. Earl Reynolds, Bloomington,

(Continued on page 41.)



The Only Tractor For Small Farms That Can Be Used Economically

EVERYONE is familiar with the development and success of the big tractor. It cannot be employed economically on small farms. The Hackney Auto-Plow was designed and built especially for *small farms*—farms of average acreage. It is equally successful on large farms. Years were spent in perfecting it. It has been tested in all parts of the country, in all kinds of soil, under all sorts of conditions and has always *made good*. It does the work of a dozen horses and two men plowing.

It will also do the **seeding, disking, harrowing, harvesting, threshing, wood sawing, road grading, feed grinding, ensilage cutting** and all other work where power can be applied. It is a tireless worker, day or night, and enables the farmer to do his work quicker and better and at the time when weather, soil and other conditions are all in his favor. It solves the labor problem and eliminates drudgery. It is so simple in construction and easy to handle that it is really a pleasure to operate. In price it is within the reach of all. Before you buy a tractor we want you to investigate the Hackney Auto-Plow—the **one-man** outfit. Catalog, photographs and letters from actual users will be mailed on request.

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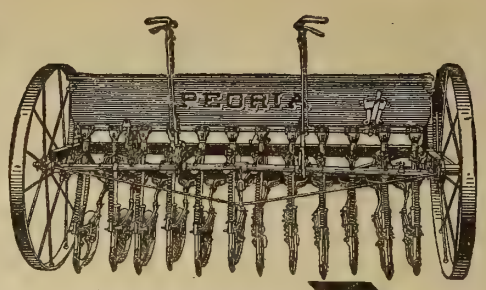
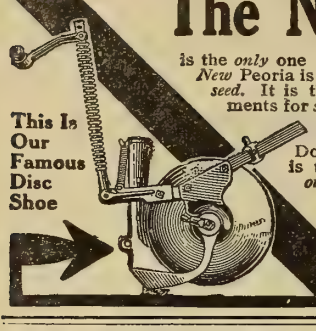
The Only Drill With a Perfect Furrow Opener



Here's the drill that will greatly increase *your* crops and profits, just as it has done for hundreds of *other* progressive farmers. It is equipped with our wonderful DISC SHOE FURROW OPENER, the *only* one that combines *every* advantage of the *single disc* for cutting trash and penetrating hard ground, with every advantage of the *shoe*, for forming the furrow and depositing the grain. It's the only furrow opener that *packs* the seed bed after the *disc* has *opened* the furrow. The *shoe* carries the seed to the *bottom* of the *packed furrow*. Every seed counts. Every seed is sown at a proper, *even* depth. So *every stalk* comes up and ripens *evenly* and the grain *grades* up best. The shoe prevents any dirt from falling into the furrow until *after* the seed is deposited.

The New Peoria Drill—



is the *only* one equipped with this *Disc Shoe Furrow Opener*. So the *New* Peoria is the drill that is sure to *increase* your *crops* and *save* your *seed*. It is the drill that insures *every* seed the three *essential* requirements for *successfully* growing small grain—Heat, Air and Moisture. Even if you have a new drill of some other make, it will pay you well to discard it and buy a New Peoria. Do not think that the wonderful Disc Shoe Furrow Opener is the *only* advantage of the New Peoria Drill. Every *other* part is just as superior. Let us *prove* it. Let us send you a *booklet* and all the *facts* and *figures*, also opinions of *men who know*. Send your name and address on a postal *now*. It's worth money for you to know all the details.

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A Frameless Plow

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It is built to stand the roughest kind of usage. Every part has been carefully tested out and there is no possibility of breakage on this outfit. Plow beam is of heavy steel and moldboard and share on this plow are the "Dan Patch" quality in every respect. Operation of the plow is very simple. Levers are easy to operate and within reach of operator at all times. A boy can handle this plow.

$24.50—30 Days Free Trial on Your Own Farm—Guaranteed to Please or Your Money Back. Write Me NOW! Wheels substantially constructed; boxes dust-proof—large axles. Plow furnished with best grade steel rolling coulter, adjustable to any position. Coulter has dust-proof bearings. Hitch can be adjusted to any position. The Dan Patch Frameless Sulky Plow is a perfect plow at a low price—furnished with 3-horse eveners, coulter, wrench, and weed hook. Write today for Special Implement Catalog. I guarantee to save you money. M. W. Savage, Pres.

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It Does the Work of Three Teams

Is Built for the Hardest Wear and is a Wonderful Convenience and Money Saver

With this rig you can do more work in one-half the time than three men and three teams can do in a day. It hits the nail right on the head and it is built for the hardest wear and tear. It is guaranteed to give the best of service and satisfaction. Notice the size of the wheels, the large hubs, heavy, durable spokes and rims, axles strong and yet not too heavy, and wheels of just the happy medium—neither too high nor too low. You can put on the back seat and take your family to church or for a pleasure ride; you can haul your pigs, calves, sheep, milk, poultry, eggs and vegetables to market and be back home again before you could even reach town with a horse and wagon. Just think of the convenience of a rig of this kind. When you want something from town in a hurry you can jump into this transport and you have got it before you know it. You can go to town for your groceries, flour, feed, furniture, hardware, cement and lumber or anything you can think of and you can do it cheaper than you can drive a horse and wagon.

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There is only one way that I could make a price of $595 on a rig of this kind, and that is by making them in big quantities. Remember this auto transport is no toy. It is practical, durable and built of the best material that could possibly be used for the purpose intended, and will give you all the service and satisfaction any car could give you even though it cost you twice as much. **Send for full description and my special introductory offer that will help you pay for the transport and make you money at the same time. Write me today and you will be mighty glad of it**

A Remarkable Factory to Farm Price

WM. GALLOWAY CO., 10 Galloway Station WATERLOO, IOWA

Vocational Training for Boys and Girls.

By Edwin G. Cooley.

IT IS SOMETIMES contended that the responsibility of the public for the education of the masses ends with the elementary school. Those destined for the professions, the executive positions, and the leisure class may enter the public high schools and state universities, and obtain an education leading directly or indirectly to vocational efficiency. Not everyone, however, seems to be conscious of the fact that the great masses who leave school at fourteen—either from choice or from necessity—to enter into vocational life are entitled to as careful consideration in our educational plans as their more fortunate brothers. As a matter of fact, this great 90 per cent needs vocational training, and have as good a right to expect it at the hands of the public as their brothers who enter the so-called "higher vocations."

We contribute to the support of the public schools on the ground that they are necessary to the perpetuation of our free institutions. We urge that a certain minimum of instruction and training is indispensable as a preparation for citizenship, and the training in character connected with the acquisition of the minimum is of great importance in this preparation. We are now beginning to see that we are permitting the boys and girls to leave our public schools at fourteen, just at the time when they most need guidance and instruction, just at the time when character-building really begins, and just when they should be objects of special attention in our educational plans. The state cannot continue to expend vast sums of money in high schools and universities, and neglect the 90 per cent who now go into vocational life with only elementary school training, without repudiating the reasons usually given for having schools of any sort as a public charge. If self-preservation through the training of the character of the future citizen is the justification for spending money for schools, the state must enter the entire field of vocational education, and provide for all, the artisan, the professional man, the farmer, and the merchant. Justice to the individual as well as self-preservation of the state demands this.

It should be difficult to overestimate the value of our system of elementary schools! The general education given in them is the necessary basis of all vocations, academic or industrial. While these schools are in need of improvement and probably will in the future devote greater attention to the training of eye and hand, this training should be given on account of its pedagogical importance rather than of its vocational utility. The eight years of general training of the elementary school system should not be shortened to make room for any scheme of vocational training. Any attempt to substitute for this a training for mere skill and instruction concerning machinery and processes of production will be fully as apt to hinder as to further the development of the mental powers.

It is sometimes proposed to provide vocational training for the backward children in the elementary schools. While experience has shown that much can be done for these unfortunate children by the introduction of the manual arts, the instruction of pure vocational training may lead to the forming of false ideals in the minds of the pupils in the elementary school. It may lead to the assumption that general training is of little importance for the mechanic, and it is also quite apt to lead to the impression that manual labor, skilled or unskilled is the proper employment for children of lesser ability, while the gifted may expect work in profession. This ideal is undemocratic and foolish. It would be better to hold up the ideal that skilled manual labor is just as honorable as work in an office, and more profitable, and that it requires a much higher degree of character and ability. In short, we should strive to check the rush of our youth away from the shop and the farm into the office.

Roughly speaking, the age of fourteen, the beginning of the age of adolescence, marks the end of this general training for nine-tenths of the boys and girls in civilized communities; it marks the end of the period of compulsory attendance, as provided in the laws of civilized countries. The problem of industrial education, therefore, is a problem of adolescence. We are only beginning to recognize our responsibilities to the adolescent, to recognize that he is entitled to our guidance and care, and that he needs it probably more than he has at any previous period of his life. He is at the parting of the ways; he is ceasing to be a child, but is not yet a man; he is beginning to be interested in matters related to his life work, in the problems of society, and of the state. More can now be done towards training his character than at any previous or subsequent period of his life. One of the blunders of civilized countries, a blunder that has led to an enormous increase in the number of youthful vagabonds and criminals, has been to neglect the adolescent, and to act as though there were a sharply defined line separating the child from the man, and that it is feasible and wise to care for the child systematically up to fourteen and then leave him abruptly and absolutely to the tender mercies of the factory and street.

If we are to undertake the further training of these boys, we must consider their newly awakened needs and interests; we must recollect that there is a limit to the amount of instruction along academic lines that they are ready to receive. If we attempt to keep them in a school of any kind, and repeat the sort of instruction they have been receiving during eight years of childhood, we shall disappoint a majority of them, and leave them bored, sullen and obstinate. If we wish to hold them longer, we must arouse their interests by connecting the school with their vocation. Through this interest, we may hope to succeed in giving them some all-round cultural training—training that will not only make them more efficient bread-winners, but better men and better citizens.—[From Report to Commercial Club of Chicago.

It is not too early to put the horses that have been loafing through the winter into training for the work season that will soon be with us. Sore muscles and tired nerves do not feel any better to the horse than they do to a man.

Ask your neighbor to subscribe for The Homestead.

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Whether your engine lasts ten years or two is a point that affects **your** pocket book.

INGECO ENGINES are built **to last.** The main reasons for their unusual wearing qualities are perfect fitting parts, large bearings, best material and construction.

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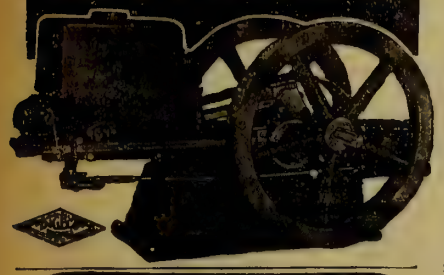

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You'll get your water at low cost, you save a lot of time and work—you'll have an engine that will do your pumping in a short time and be ready for general service the rest of the day. To make pumping no job at all, hitch this engine to a

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Rigid frame, lathe-turned arbor, running in self adjusting, non-heating, dust-proof boxes makes our saw frames simple, strong, safe and successful.

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Buckeye Storm Proof Farrowing Pen

The Buckeye galvanized iron hog house with patent Tight Lock Joints is portable, sanitary, ventilated. Easily set up; dry and warm

Mother can't trample little ones yet has plenty of room for comfort. Size, 6 1-2 ft. wide, 6 1-2 ft. long, 4 ft. high. Satisfaction guaranteed.

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Northfield Well Curb
Prevents disease. Germs and filth cannot seep in. Will not rust or taint water. Any size. Anyone can install. Write today direct to factory for catalog
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CREDITABLE ROAD WORK.

To the Editor of The Homestead:

I have been reading an article in your paper written by Dean Raymond on permanent roads wherein he stated that it would be necessary to cut down the grades in making roads. I would like to ask how that is to be done. Most of the roads that are being worked at present or the majority of them, are being graded so that the hills and high places are being made higher by grading the dirt from the side of the road to the middle and it seems the higher they can get the dirt in the middle and the steeper the grade, the better it suits them.

I notice the fact that money is thrown away on the roads mentioned. Why is it thrown away and who throws it away, the road overseers by not doing enough work or the parties who hire the work done, say for instance the trustees or the county supervisors. I would like to get at the bottom of the trouble.

I have been quite interested in the good road question myself, having been a road overseer for five years and have handled quite a lot of dirt during that time. For the last three years I have made quite a study of the problem and have tried to make the grades better instead of worse. In my opinion forty rods of work done right so that the public can travel in the middle of the grade when finished is far better than two miles with none of it done right, compelling the public to travel on the side of the grade the year round.

The first two years I tried to please everybody and get over as much territory as possible, but I came to the conclusion that the best a man can do is poor enough and whatever was done should be done right, no matter if it was only a mile.

Road work will soon begin and if anything is going to be done to remedy the matter it must be done quickly. As a rule where the roads are graded with a grader, near bridges where the work needs to be done it is left undone and over the tops of hills where the road should not be made higher it is generally raised, instead of taking the dirt to the low places.

As to mowing the sides of the roads, will say that I think it is the duty of the road overseer to leave the ditches in condition so they can be mowed with a machine where it is at all possible to leave them that way. I know of miles of road where it is impossible to mow along the roadside on account of the ditches made by the grader. The grader can be used to slope the sides of the ditches so a mower can be used and the dirt left in the middle of the road. People find fault that the grass and weeds are not mowed along the road, but whose fault is it? Stop and ask.

Mark Baker.

REVISE KANSAS GAME LAWS.

A complete revision of the Kansas fish and game laws has been made by the joint fish and game committees of the house and senate. The bill has the approval of Professor Dyche and sportsmen and there is little doubt of its enactment about as it is drawn.

The important changes are:

Quail and prairie chicken cannot be killed at any time.

Boys under fifteen years old cannot go hunting under any circumstances and carry a gun unless accompanied by an older person.

Doves are declared game birds, instead of insect-eating birds, and may be killed from August 1st to October 1st, provided not over twenty doves are shot at one time.

Every man must have a license to hunt and to fish. Women and boys are not required to have a license.

A day's shooting of wild ducks is increased from twelve to twenty. Ducks may be shot over live decoys, they may be shot while sitting on the water and they may be shot at any time of day.

At least 50 per cent of the fees collected from hunters as license fees must be devoted to the propagation and protection of game. At present practically all the fees have gone to the propagation of fish.

The present system of deputy fish wardens throughout the state is abolished and eight deputy fish wardens, each to receive $1,000 a year and expenses, are provided.

These are the points on which there has been so much contention between the sportsmen and the game warden. They have been worked out and the law as it was reported is regarded as satisfactory to the sportsmen and the farmers.

There's Only One Safe Way to Buy a Buggy

Here are a few of the things to look out for

First—See your buggy before you buy. There's a mighty big difference in buggies.

Second—be sure it is made by a manufacturer who has a *reputation for making first-class buggies.*

Third—Buy of a dealer you know.

Fourth—Don't buy an Eastern-made buggy They are not built to stand the strains of our western roads.

Fifth—Don't buy a cheap-priced buggy. It will look shabby in a short time, cause heavy repair expense and go to pieces quickly. A really *first-class* buggy—the *Kratzer*—costs only a little bit more, looks better, is much easier riding, and stands the wear and tear because it is built *in* the West to suit Western conditions. Best—and cheapest in the end.

Kratzer Quality Carriages
Are sold by reliable dealers

You get the most in buggy beauty and endurance in a Kratzer All wool broadcloth or genuine leather backs and cushions, springs of the finest tempered Cambria steel, tires put on "hot-set" by hand, only the best selected seasoned hickory, drop forged iron reinforcement at every point of strain, the famous Wilcox all-steel fifth wheel, every bolt, nut, stick and rod made to last for years This is the kind of buggy you want.

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We have some very interesting facts on buggies and carriages which you should get at once Just mail the coupon and you will receive this information by return mail. Don't put it off Send the coupon *now.*

Kratzer Carriage Company
104 W. First Street **Des Moines, Iowa**

No. 52 "Aeroplane" Buggy

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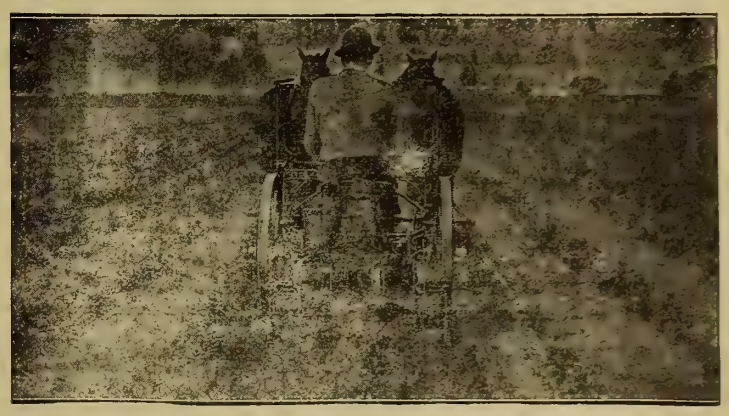

EMERSON Auto-Cultivator

This cultivator is different than any cultivator you have ever seen. It is so built that the wheels, and the gangs with the wheels, are turned at will, like the front wheels of an automobile, hence the name "*Emerson Auto-Cultivator No. 35.*"

Quick and Easy This construction enables you to *instantly* change the direction of the wheels and shovels without changing the direction of the team. It makes a much *quicker* and *easier* turn in cultivating crooked corn than where you must swing the gangs as in the old style machine.

The Foot-Lift The *patented* foot-lift device insures the shovels going back to the same depth of penetration after turning as they were before you raised the gangs at the end of the field—a feature that makes perfect cultivation easy. More new, time and labor-saving features in our Auto-Cultivator than others. That's why it's the leader.

Write for Details Write for our special circular. Give us an opportunity to prove to you that the EMERSON Auto-Cultivator is a big step in advance of anything in the riding cultivator line. Write *today*, before you forget it, for Booklet No. 7.

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358 Iron Street, (INCORPORATED) **Rockford, Illinois**

Plows, Harrows, Pulverizers, Spreaders, Drills, Listers, Planters, Cultivators, Stalk Cutters, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Clover Hullers, Road Rollers, Saw Mills, Wagons and Vehicles.

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ARE you thoroughly posted about the heating question? Do you know what "Rotary Air Movement" means? Do you know who invented it, and why it is vitally necessary to the health and comfort of your family, the efficiency of your heating plant, and the good you get out of your coal?

Remember, this heating question is a mighty important one—you do not change your heating plants often, and when you do, it should be with a view to getting a *life time* service. To prove how and why this is possible with our *all steel* Campbell Winter-Chaser, we will send you, *free*

"TWICE-A-DAY"

A Book on Health and Heating

The story of the *guaranteed* heat to 70 degrees, and the longest wearing, strongest furnace made. In this book we explain why you should have the Campbell Winter-Chaser in your home—large or small, new or old. It tells about the need of *moist and clean* air as well as *warm*, and explains why the large reservoir and the ample air chamber with entrance door insure all the necessary moisture and cleanliness which mean health to the family and long life to the furniture.

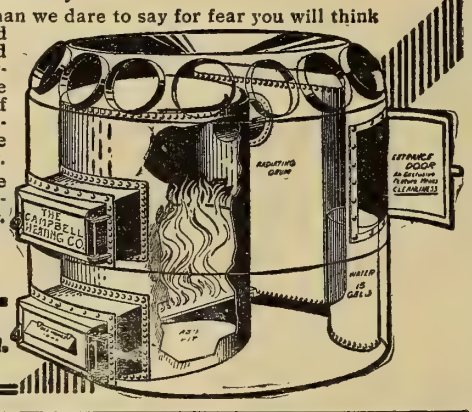
The Winter-Chaser Is Guaranteed To Give Most Heat With Least Fuel

And this statement is a calm fact which letters from happy owners prove,

And the Repairs Are Not Worth Mentioning

With ordinary care the Winter-Chaser will last a lifetime, and there is rarely a penny spent—for ten or twelve years.

The saving in coal is more than we dare to say for fear you will think we are exaggerating. So we would rather send you the booklet, and let you read these facts for yourself in black and white with the owner's name at the bottom of the letter. Those are the statements that count and there are plenty of them in the booklet.



Besides you ought to have the information and heating suggestions it gives. So write *today*. Address

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Dash and go are personified in the new spring styles

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30 Days Free Trial 360 Days Approval Test. Big book illustrated—400 styles and sizes of stoves to choose from. *Get it NOW! Ask for catalog No. 46.* We also make furnaces and gas stoves—special catalogs free.

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A Kalamazoo Direct to You And Gas Stoves Too

FREE BOOK of 400 Stoves

THE HOME

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WITH THE EDITOR.

Last year America had a visit from a distinguished Englishman, Arnold Bennett. In his own country Mr. Bennett has been for several years reaping fame and shekels from his novels, one of which, "The Old Wives' Tale," is the best known in this country. Before talking of "The Old Wives' Tale," I wish to give our readers an extract from "Living on Twenty-Four Hours a Day," a late work of Mr. Bennett's, and one which greatly enlarged the circle of his readers on both sides of the Atlantic:

It has been said that time is money. The proverb understates the case. Time is a great deal more than money. If you have time you can obtain money—usually. But though you have the wealth of a cloak-room attendant at the Carlton Hotel, you cannot buy yourself a minute more time than I have, or the cat by the fire has.

The supply of time is truly a daily miracle—an affair genuinely astonishing when one examines it. You wake up in the morning, and lo! your purse is magically filled with twenty-four hours of the unmanufactured tissue of the universe of your life. It is yours. It is the most precious of possessions. No one can take it from you. It is unstealable and no one receives either more or less than you receive. Talk about an ideal democracy. In the realm of time there is no aristocracy of wealth and no aristocracy of intellect. Genius is never rewarded by even an extra hour a day, and there is no punishment. Waste your infinitely precious commodity as much as you will and the supply is not withheld. No mysterious power will say, "This man is a fool if not a knave. He does not deserve time; he shall be cut off at the meter." It is more certain than consols and the payment of interest is not affected by Sundays. Moreover, you cannot draw on the future. Impossible to get into debt. You can only waste the passing moment. You cannot waste tomorrow; it is kept for you.

"The Old Wives' Tale" is not exhilarating reading, quite the reverse. Which is not to say that it is not well written. Being the work of Arnold Bennett its technique could hardly fail to be admirable. The trouble is, it makes life seem so little worth while. However, those chapters which deal with the relations of parents and children are so very well done that reading them one feels as if a mirror were being held up to life.

Mr. Baines, a shopkeeper in Bursley, of the Five Towns in Staffordshire, England, had been a bed-ridden invalid for years when the story opens. Mrs. Baines managed the store and the house and the children, of whom there were two, Constance and Sophia. Mrs. Baines was a capable woman, equal to her three-fold duties, a good woman, too, as anyone in Bursley would tell you, but with all her ability and her goodness she was not able to manage her daughter Sophia, age fifteen when the story opens.

The struggle between Sophia and her mother began when Mrs. Baines informed her daughters that it had been decided they should niether of them return to school (Constance was sixteen), but that both should begin to make themselves useful in the home and the shop. It ended when Sophia, but that is to anticipate one of the few ripples which mark the calm of the story.

Sophia did not want to go into the shop. She expressed herself so decidedly on this subject that her mother used to implicit obedience and profound respect was astounded at her child's naughtiness. Being, as has been stated, a good woman, being also wise and tactful, Mrs. Baines proceeded cautiously with Sophia. Neither her goodness nor her wisdom nor her tact availed her except in so far as they made what would have been a rout become a retreat. At the last Sophia had her way—she returned to school, to prepare herself to become a teacher.

Circumstances into which we need not enter led Sophia voluntarily to leave school and enter the shop after the death of her father. While employed there she became acquainted with a commercial traveler, who fell in love with her at sight. Thereby precipitated the climax of Mrs. Baines' failure to control Sophia, a failure the more remarkable in that in dealing with Constance she was altogether successful. Sophia's will was as strong as that of her mother and while she never sought an encounter, when she made up her mind to go or to get or to have nothing stopped her. So, when she set her young affections upon Gerald Scales, a veritable prince in her girlish eyes, though in reality a worthless spendthrift and roue, she quietly and cunningly outwitted and overrode her mother without the slightest qualm of conscience, though her course in-

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volved deceit and even theft before it culminated in an elopement.

It is significant of Bennett's treatment of the facts of life that he suggests no thought of Nemesis when misery and unhappiness overtake Sophia. So far as his point of view is concerned her life was no whit less admirable than that of her sister, Constance, who evolved from an affectionate and dutiful daughter into a loyal and dutiful wife, who in turn became a devoted mother.

(Contined next week.)

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Each man's chimney is his golden milestone;
Is the central point from which he measures every distance
Through the gateways of the world around him.
—The Golden Milestone.

The fragrance of a sweet flower and the upright conduct of a good man make the world purer and better until the end of time.

Shrink not from any necessary responsibility or duty. Positive courage and decision have easily overcome many seemingly formidable obstacles. The courage to do the right is often more than half the battle.

A WORD OF WARNING.

In foreign countries, where young people are permitted less freedom, warning against promiscuous kissing is unnecessary.

But the mother of every American girl, if she has that girl's interests at heart, should instill into her from the moment she arrives at an age of understanding that the kiss is a solemn, tender, holy thing, but that when misplaced it becomes a dangerous thing.

A kiss is meant to express the rich, full treasure of the heart—love. And no man should dare to ask this token of regard from a girl unless he loves her and wishes to make her his wife.

Heed paid to a parent's wise injunction in the matter of promiscuous kissing would save many a young girl from unhappiness and misery.

IRONING TABLE LINEN.

Well-washed table linen does not represent finished work unless it has been well ironed and folded. It should be sprinkled more evenly and more heavily than any other type of clothes. Before ironing pull the cloth straight, in order to make the edges and corners even. Table linen should be ironed with a heavy iron, preferably on a large table, where free space makes it possible to have a large surface exposed without the necessity of constantly shifting the material. Always have the linen half dry on the wrong side and entirely dry on the right, to prevent mussing while folding.

HINTS FOR THE COOK.

To keep salt from caking in the shaker, place with it either a little cornstarch or a few grains of rice.—Mrs. N. L.

A tablespoonful of melted cocoa or chocolate stirred into the poor man's rice pudding quite changes the character of the dessert.

If you have trouble with cakes falling after they are put in the oven, try giving the pan a few knocks before it is put in. This causes the air bubbles to come to the surface and break.

A sweet biscuit may be made with ordinary biscuit dough, with the addition of chopped dates. Roll the dough quite thin, spread with plenty of soft butter, and then put on a thick layer of chopped dates. On top place another layer of dough and cut out with a small cutter. Bake in a hot oven.

For candying orange peels use only the thick rinds; soak the peels in water, changing several times, until they lose their bitterness; then put them into boiling sirup, and boil gently until they become soft and transparent; then take them out and drain, roll in powdered sugar and put in a dry place. The sirup which adheres to the peel will "candy."

To simmer is to boil slowly; if the liquor throws up bubbles above its surface it is boiling at a gallop, and will harden any meat that is cooking in it.

Fasten a wire hook to the handle of a grape basket. Hang over line when hanging out clothes and push along before you, thus saving much time.

SEASONABLE RECIPES.

Try this way of cooking parsnips: Pare and slice thin and fry as potatoes, taking about the same length of time, but cooking slowly, as they burn readily. When partly tender, to a large skilletful sprinkle over a tablespoonful of sugar and a little salt. Squash is very good cooked in the same way.

Creamed Turnips.—Cut peeled turnips into half-inch dice, boil in salted water and drain, pour over a cream sauce made of one cupful of hot milk, over one tablespoonful each of butter and flour rubbed together. Salt and pepper.

Macaroni with Cheese.—One-fourth of a pound or twelve sticks of macaroni broken into one-inch lengths and cooked in three pints of boiling salted water twenty minutes. Turn into a colander and pour over it cold water; drain. Make a sauce of one tablespoonful each of butter and flour and one and one-half cupfuls of hot milk and salt. Put a layer of grated cheese in bottom of baking dish, then a layer of macaroni and one of sauce; then cheese, macaroni and sauce, and cover the top with fine bread crumbs, with bits of butter dotted over it, and a little grated cheese. Bake until it is brown.

AMONG OURSELVES.

The cry of "Fire!" "Fire!" has been ringing in my ears ever since the disaster of a month ago. By the most strenuous efforts of our manager and his assistants the results of this loss have been minimized and we have been meeting "Among Ourselves" almost as cosily as though nothing had occurred to the great building and the machinery which sends out this paper. I feel as though I could preach a little sermon on this incident, but life is so full of occasions when some bear heavy, uncalled-for burdens and others receive without a passing thought blessings which they have not earned, that I refrain. But there are some who have been visited by the fire fiend and they have some notion of what it has meant to readjust, reorganize and renew such an enterprise as is represented in the Pierce Farm Weeklies. We of the Home Department would never have been aware that anything unusual had happened had we not been informed. Let us wish such loyal workers "success." For our program today, I will call on Mrs. S. H. S. to read us one of her original poems, which she calls

THE UNRULY MEMBER.

I've made my way wherever any wind of news has blown;
I've talked away by night and day, whenever not alone;
North, south, east, west I've traveled, over mountain, plain and hill,
For once you get the gossip germ you can't keep still.

I settle down quite often, and to quit I really try;
And I vow to cut out gossip, and let all scandal die;
But the breezes seem to taunt me, "Why, of course, we know you will!"
Then, before I think, I'm at it, for I can't keep still.

I've seen so many places where I'd like so much to stay,
But the old-time longing takes me to improve a lovely day;
I was never built for quiet, just to sweep my own home sill;
So I'm soon all robed and ready, for I can't keep still.

I've gone to rich folks' houses, and I've scattered tracts in jail;
I've proclaimed from lofty housetops all the good works in my trail;
I am such a social being, and with spicy news I thrill,
For I've got the gossip habit, and I can't keep still.

All nature looks so smiling, and my news today is good;
So I'll drop in at the "Circle," where we meet to sew for God; (?)
For it is no use resisting when once you feel the thrill,
If you get the gossip habit you can't keep still.

From house to house I'll visit, and at every cross street line,
And I'll swell with the importance of this latest news of mine;
I tell you there's no pleasure half as keen my breast to fill,
And this last is worse than ever, and I can't keep still.

So I'll hie me to the "Circle," and Endeavor meeting, too,
And you'll hear the whispered questions, long before my tale is through;
For though some folks will not tell things, they will listen with a will,
And that spurs me to my limit, and I can't keep still.

On the following Sabbath morning, as each settles in her pew,
You just note the eager glances, wondering "if it can be true?"
Though the pastor struggles bravely, all his pushing is up hill,
For the scandal germ is spreading, and folks won't keep still.

The Sabbath day is ended, and all nature is at rest;
Above the stars are shining, and the people "have been blest;"
But my tale will ne'er be sleeping, 'twill the church and city fill,
For thus grows the scandal microbe, for it can't keep still.

Oh! shades of Luther, Wesley, Roger Williams and the rest!
What sort of folks are waiting to receive the coming guest?
What sort of mothers had they, left to gossip to their fill?
Did they peddle shame and slander? Could they not keep still?

How oft one generation must be judged by that before,
For the mother leaves her imprint on her daughter evermore;
And the daughter reared in kindness ne'er with poison tongue will kill;
She's immune from scandal's microbe, so she can keep still!

Then, oh mothers, let us hasten to the cleansing fountainhead,
For life's little span is passing, soon we're numbered with the dead;
Cover o'er with Christ's own mantle what, if understood, might fill
All our hearts with deep compassion, and—let's all keep still!

You remember that our sister is a missionary in northern California. She has looked around, seen some

$850 Detroiter $900

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Claims, without proof, are empty. The Detroiter claims much but proves more. Statistics tell us that the average price of all cars made in this country is $2419.93—the Detroiter is $850.

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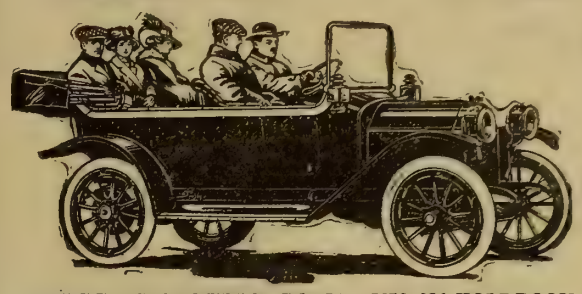

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Milwaukee, Wis., Oakland-Wisconsin Motor Co.
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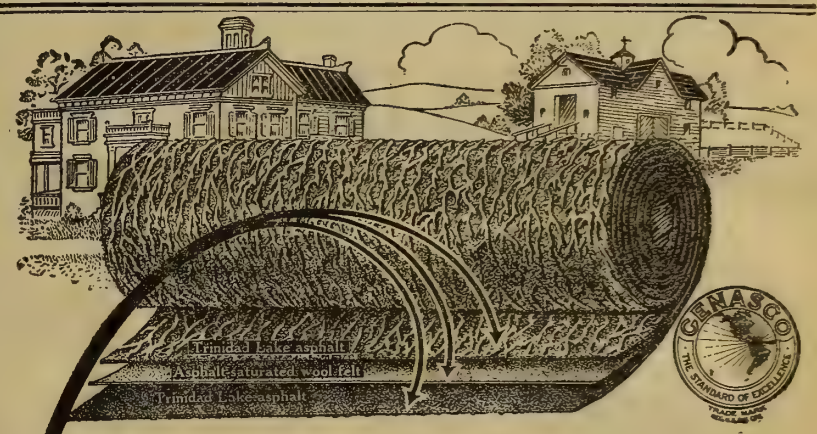

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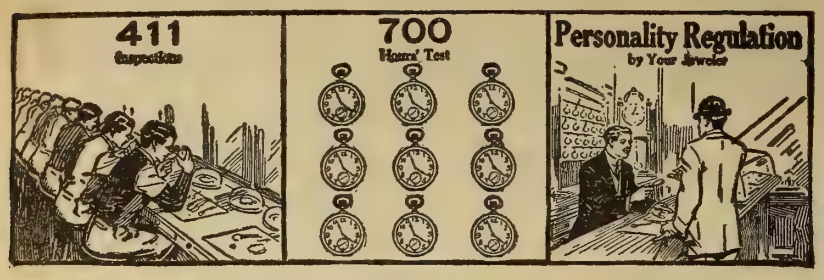


A WONDERFUL Farm Watch

Next to the jolting on locomotives, a watch used on the farm gets the hardest tests.

In both places the South Bend Watch is famous. Engineers on the Twentieth Century Limited, the well-known Chicago-New York train, use South Bends. So do hundreds of other railroad men.

The jolting your watch gets on your farm wagon is almost as severe as these watches receive in these cabs.

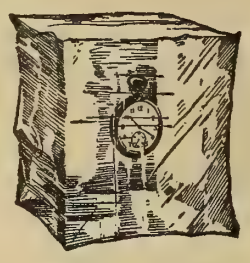
How South Bends Stand It

First, we build them with wonderful care and precision. The cutting of parts and assembling require a full six months. Then the parts are inspected 411 times. Then the watch complete is given a running test of 700 hours. We will *keep* it six months more, if needed, to make it *keep* perfect time. Some South Bends stay a year in the factory. But when they come out they are up to the highest standard.

"Tuned" to Your Pocket

Every watch should be regulated to the person who wears it, for different men give watches different treatment. If you walk a great deal, bend over at work, or ride most of the time in a jolting farm wagon, your watch must be regulated to offset those conditions.

A watch that runs stiffly can't be so regulated, hence seldom keeps time for anyone.



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things and we are benefited by her observations. "The Unruly Member" appears to need as careful guidance in the mountains as on the plains, but when this "member" is wisely trained what beautiful things it produces to the great pleasure of the owner and the benefit of others. You know about "apples of gold in pictures of silver."

From the pen of Mrs. L. H. Palmer, Baraboo, Wis., I have for you something you will like, and I am happy to present her photograph for our Home Department collection. She writes to us about

THE HOME A SOCIAL CENTER.

The question is frequently asked, "What place do the home and homemaker occupy in the economic world?" There should be no attempt made to place a cash value on the influence of the home or the homemaker. Home means something too sacred to come into the commercial world. It means mother, father and the children. It stands for all that is lovable or worth living for. It is all that binds the human race together. The homemaker has a work to do, a holy service to render to the world, that is far above a money value. The home should be a social center, where old and young may meet for a social hour, and the children should be helped to feel that there is no place where they and their friends can have quite as good times as at home. If that spirit was fully lived up to it would do more to close the saloon doors than all the political "isms" together. There is an atmosphere of refinement, a feeling of cordial fellowship, about a home function that is never present as a public entertainment, however well conducted. The home affairs should be so managed that each individual understands that he is a part of the whole, with specific duties and obligations; that the material and social life of the home depends on the willing co-operation of the members. Parents should understand the necessity of training the children to willing obedience of home rule; that the home is a small republic, in which all have an equal right to work, play and share what comes in the way of success or the reverse, and as all know that "into each life some rain must fall," children should be taught to meet disappointment bravely and feel that they can do much to comfort those who are troubled. The family life should be so regulated that there will be stated times for work, study and social recreation. The holidays should be celebrated with appropriate entertainments and the children should understand the significance of the day, especially Christmas. Much of the discontent and dislike of work among children could be avoided if parents would go cheerfully about their own duties. Do not expect children to be willing workers when they constantly hear older people complain of the drudgery of their lives, and wish they might live without work, and denying themselves and families many pleasures that they may accumulate money enough to live in town where there is something doing. Suppose you get something started in the country. There is material all around in the bright boys and girls who ought to be kept busy, and all they need is to be guided by someone with matured judgment who has not forgotten how to be young. Invite the neighbors to help plan the work, so there will be time for parties, picnics and literary meetings. Organize clubs for culture and social purposes and when club evening comes don't be too tired to go, but take part in the entertainment and let the young people see that the old folks are alive and intend remaining so. There is nothing that will spur on the mental activity of the young like a literary contest in which old and young meet in friendly rivalry. We are too much given to cultivating that tired feeling, as we draw near life's meridian, and begin to think the new house, with its fine furnishings, is just a little too nice to give parties in, and there is no sense in the young people wanting parties. The home should be as fine as can be afforded, but there should be nothing too good for family use. There should be an abundance of good reading, music and games that the home life will be such that in after years, when the children look back to the dear old home, their sweetest memories will be of the quiet evenings spent at home with the family. The home should radiate good fellowship that, expanding in ever-widening circles until meeting counter currents, the community will be united in a harmonious whole, to foster and keep alive the sentiment so beautifully expressed, long years ago, by the homeless, home-loving John Howard Paine, in his immortal poem, "Home, sweet home; be it ever so humble, there's no place like home."

Some writers of fame put on paper this sentence which is often quoted: "Let us live with our children." Too many mothers as has been hinted, live for instead of with their children. You readily catch the distinction, which has so well been brought out by Mrs. Palmer.

Of course, we are compelled to be guided, if not governed, by circumstances, more or less, but that there should be found any such conditions in farm life, American farm life, as are told by "Eyewitness" is unbelievable. When knowledge of all sorts is so easily attainable in these days such a state of affairs as are

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here told us is simply criminal. Most counties nowadays have health officers and they should be notified of such occurrences as our correspondent writes about:

Careless or thoughtless watering of hogs causes untold loss, not alone among the future hogs, but also the human family as well. Several years ago water was scarce during the autumn months and a family, who were clean and good housekeepers otherwise, neglected to care properly for the animals. The father was sick with tuberculosis and finally died. All water used in bathing him, including the water used in bathing his corpse, was thrown into the swill barrel. Some of the hogs that drank that water were butchered at home for meat; some were kept for breeding purposes, and some were sold on the market to the packing house. Of course, the water that washed his dishes and the remains of his food went to this same swill barrel. Is it any wonder that when one such person in a family dies of consumption, other members of the family, and often in the community also, die of consumption?

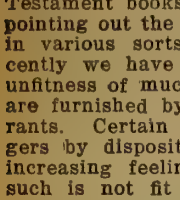
There is a lot of wisdom in the sanitary laws laid down in the Old Testament books. Modern science is pointing out the differences that exist in various sorts of foods. Just recently we have had a stir over the unfitness of much of the oysters that are furnished by the cheaper restaurants. Certain animals are scavengers by disposition and there is an increasing feeling that the flesh of such is not fit for human food. It is hardly possible to be over-scrupulous in choosing and preparing some things for food.

One of our housekeepers is getting things prepared beforehand for the annual spring campaign and has a request to make. She also contributes a method of making use of otherwise waste materials. Another good item for your scrap books:

Some time ago there appeared an article on preparing linseed oil with burnt umber or sienna for use on hardwood floors. Will the lady who sent this in please tell me how much to use and how it should be prepared. What do the sisters think is the best finish for a kitchen floor, where one must use same for dining room? There are many floor finishes that one can purchase, but they seem too expensive for general use. I am using old waists and dresses, the best parts of men's flannel shirts in making mattress pads. I cut the pieces the size of a post card and sew light and dark together. I used a comforter that had been used until it was faded and worn. I trimmed the sides off just the size I wished, then covered both sides with my woolen covering and tied it. I am so well pleased with it that I am making another. It is so warm. Such a good way to use old garments and also make use of faded quilts and comforters. This is my first attempt at writing to our Home Department. I enjoy the letters very much. The only fault I find is that there is not enough of it, for it is read all too soon. Then I look forward to the next issue.

You may have heard that we have the reputation of being a wasteful people, but when our housewives are as careful as Miss Rachel it would seem as though the blame would have to be laid at other doors. To be saving without being "niggardly" and to expend without being a spendthrift is an art worth much and constant study. In fact, a number of us put in much of our time and energy doing this very thing.

I hope you have kept our contest in mind and that your letter is on the way if not already in my hands. There is such a breadth to the subject that every woman who reads the department should contribute for the helping of others. I expect a huge mail.



THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

USEFUL HINTS.

Rub flatirons with fine salt to make them smooth.

To get rid of ants in a pantry, sprinkle red pepper in all crevices.

To prevent clothes from drying in streaks, rinse in salt water, not too strong.

To keep clothes from freezing on the line, put a little salt in the rinsing water.

In cooking tough fowls or meats, one tablespoonful of vinegar in the water will save nearly two hours boiling.

To make washing easier, soak the clothes half an hour in lukewarm soapsuds before rubbing.

Rub the hands with a piece of raw potato or a stalk of celery after peeling onions in order to remove the unpleasant odor.

A little lemon juice in plain water in an excellent tooth wash; it not only removes tartar, but sweetens the breath.—Arkansas Girl, age 15.

THE OLD FIREPLACE.

From its permanent spot the old fireplace
Smiles out on many a cheery face;
With its huge jamb rock and broad hearthstone,
And crackling wood, that doth howl and groan,
And long, broad mantelpiece overhead,
A ruddy light its flames over all doth spread.

And when the storm comes, with its snow and rain,
The old fireplace the cold will restrain,
And pour out its bright light over the wall,
And large, dark shadows creep and crawl,
Then every heart is light and gay,
And by our old homestead we long to stay.

And now, as I sit in my study tonight,
With my parents and brothers, so peaceful and quiet,
All circling around the old fireside,
Which we look upon with esteem and pride;
No hatred, no sadness, nor grief finds vent,
But there reigns joy and sweet content.
—Katheryn, age 16.

Earth, Air and Water— A Good Game.

One of the players is furnished with a handkerchief, which he throws suddenly and unexpectedly to another, crying out the name "earth," "air" or "water," which ever he likes and then counting as rapidly as he can. Before he has come to ten, the person at whom the handkerchief is thrown must name a creature that inhabits the element thus mentioned, or, failing to do this, pays a forfeit. Thus, suppose the thrower of the handkerchief says: "Water, one, two, three, four, five, six, seven, eight, nine, ten," the person challenged must call the name of some fish; if air, the name of a bird; or, if earth the name of some animal. If the question is put very abruptly and the numbers quickly counted, the players will often be unable to get out their replies quickly enough and the forfeits come in merrily. The best way is to look at one person, and then unexpectedly throw the handkerchief at another.—Buffalo Bill, Wisconsin.

The Last Muster.

The twins were up early on this particular morning, for something unusual was to happen to the twins and to the old soldiers around the village. It was the day on which the last muster of the soldiers was to be held and the old soldiers had looked forward with great joy to seeing their comrades. But I do not think the muster was looked forward to with more joy by anybody than by Roberta and Robert (usually called Rob and Bob) for they were going to do something which seemed very daring to them. Of course, nobody was to go to the meeting except the soldiers, but Rob and Bob were going to break the rule. At ten o'clock the twins walked down the street. "Bob, how are you going to get into that church, when all the soldiers are in there?" asked Rob. "Well, of all things," said Bob disgustedly, "I don't mean to get in there while they are there, I'm going in there right away." "Oh!" said Rob, "you are going in there and hide. May I go along?" "Well, I suppose you'll have to go, but I know you'll make a noise and they will find us out. All girls are alike," said Bob with dignity. At length they came to the old church where the meeting was to be held. They went up the steps and into the church. Here they walked very quietly for fear the faithful old janitor would hear them. Luckily he was busy at some work and did not hear them. "Bob, where are you going to hide?" whispered Rob. "Under that seat, there, see, where that funny little hole is. You get in first and then I'll get in," answered Bob. When the twins got in the hole they found it larger than they had thought it. They were very comfortably seated and enjoying the situation finely when the soldiers began to arrive. One by one they came until all were there. "Now they are going to begin," said Rob excitedly. "Keep still," answered Bob. The meeting was opened by singing "America." Then a speech followed which told how the soldiers were called to war and how some left their parents, others wives and children. All left friends. The way he told about the soldiers bravery and hardships which they went through seemed wonderful to the twins who were quietly listening under the seat to every word which was said. Then the man told how, during the whole war, friends at home looked for the return of their loved ones. Some returned well, some cripples and some not at all. Here there were signs of disturbance over the room and could the twins have looked up they would have seen eyes which were very misty. After this long speech the soldiers sang "Camping Tonight On The Old Camp Grounds." After this a speech was given about the number of soldiers which were now living and how they were cared for. In about the middle of this speech Rob whispered to Bob, "Bob, I have to sneeze, what shall I do?" "Roberta White, if you dare to sneeze I'll never, never—" but here Bob was interrupted from his awful threat by Rob sneezing. The twins were lucky for the soldiers were so interested in the speech that they never noticed Roberta's sneeze. After this speech which was not very interesting to the twins a man arose and gave a very touching speech on the friendliness and love that each member of the company had shown for each other. He also said that although this was the last muster he hoped that they would have the same love and not forget each other. If the twins could have looked up now they would have seen tears in many men's eyes and the others having a hard time keeping them back. When the soldiers clasped each other's hands and said "good-bye" it was a very touching sight and Bob, who despised to see anyone cry, could not keep the tears back. After the soldiers went the children got out of their hiding place and went out into the street. When they arrived home their mother ran out to met them saying, "Children, where have you been? I have been looking for you all over." "Oh, mother," said Rob, "we have been hearing the soldiers talk and they said some things that made Bob and me cry." "Rob, what are you talking about?" asked Bob, "I'd like to know when I cried? And anyway I thought we were not going to tell where we were. Well, I ought to have known better than to take a girl along. I never will again."—Vietta.

BIG AMUSEMENT PACKAGE--10 Cts.

Checker and Chess with men, Set Dominoes, Fox & Geese, 9 Men Morris, Authors—48 cards, 15 Cards—Love, Courtship, Marriage, 200 Riddles and Conundrums, 275 Select Autograph Album Verses, 15 Magic Tricks, 17 New Parlor Games, 12 Chemical Experiments, Language of Flowers, The Secret of Ventriloquism, How to Tell Fortunes, and a lot of other things to entertain the whole family all winter. This big $1.00 package all for 10c. **S. Cooper & Co. Bx. 49 Horton, N. Y.**

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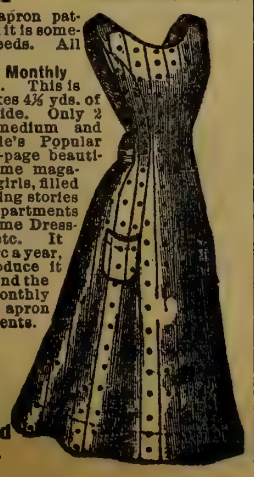
This is the best apron pattern ever offered and it is something every lady needs. All new subscribers to **People's Popular Monthly** will receive one free. This is a prize pattern. Takes 4½ yds. of material one yard wide. Only 2 buttons. Small, medium and large size. People's Popular Monthly is a fine, 32-page beautifully illustrated home magazine for women and girls, filled with bright, interesting stories and well edited departments on Fancy Work, Home Dressmaking, Cooking, etc. It would be cheap at 50c a year, but in order to introduce it to new readers we send the People's Popular Monthly a full year and the apron pattern for only 25 cents. Address,



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211 Grand & 3rd
Des Moines, Ia.

LATCH STRING

Is Out for You at GALLOWAY'S

You owe yourself a visit to Waterloo. Come! A little vacation right now will do you a world of good. Come! The moment you get off the car at Galloway Station, you're Galloway's personal guest—no expense, free entertainment—put up at our $40,000 Agricultural Club and enjoy every comfort and luxury. Remember, this Club was built for my farmer friends and their families.

Bargains—If You Want Them!

Go through my factories. See how Galloway Spreaders, Engines, Separators, Harrow Carts, are made. Satisfy yourself about quality—then if you like save big money on anything you need. I'll give you lowest, direct factory prices and a special 5% discount if you cut out and bring this "ad."

No Obligation to Buy

Look around. Have a good time. Get posted on real values. Then, buy if you want to—if not, all right! There are other factories in Waterloo. I'll put you in touch with my competitors so that you can get all the facts. Isn't that square? That's the Galloway idea. Everything fair and square at every turn of the road.

Write Me That You Are Coming
Wm. Galloway, Pres., WM. GALLOWAY CO.
108 Galloway Station, Waterloo, Iowa 227

WE SHIP ON APPROVAL *without a cent deposit*, prepay the freight and allow **10 DAYS FREE TRIAL.** **IT ONLY COSTS** one cent to learn our *unheard of prices* and *marvelous offers* on highest grade 1913 model bicycles.

FACTORY PRICES a bicycle or a pair of tires from *anyone* at *any price* until you write for our large **Art Catalog** and learn our *wonderful proposition* on first sample bicycle going to your town.

RIDER AGENTS everywhere are making big money exhibiting and selling our bicycles. **We Sell** cheaper than any other factory. **TIRES, Coaster-Brake rear wheels,** lamps, repairs and all sundries at *half usual prices.* **Do Not Wait;** write *today* for our *special offer.*
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FREE—Write today for catalog and certificate, entitling you to free $50 course in running tractor engines—we own two tractors. Only auto school in the world teaching tractioneering. Send name today.

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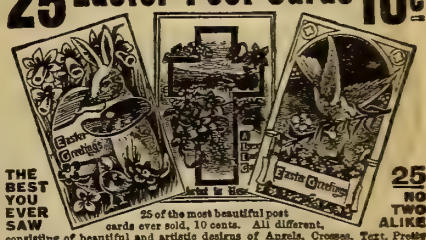

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25 of the most beautiful post cards ever sold, 10 cents. All different, consisting of beautiful and artistic designs of Angels, Crosses, Text, Pretty Flowers, Rabbits, Chicks, Eggs; all with appropriate Easter Greetings. Some are embossed and in gold, lithographed in many colors on a fine grade of cardboard.
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Big Doll For You

D-L-I-D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.
902 Popular Bldg., Des Moines, Iowa

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6108 Lady's Five-Gored Skirt.—One of the newest style skirts for separate wear or for costume or coat development is here offered. The garment is cut in sufficient width at bottom to make for grace and convenience in walking.

The pattern, No. 6108, is cut in sizes 22 to 30 inches bust measure. Medium size requires 3⅞ yards of 36-inch material or 3⅞ yards of 44-inch material. Price of pattern, ten cents.

6073 Miss' Suit.—A clever suit for the young girl is here shown. This suit is also designed for the small woman. The coat is double breasted and the skirt is cut in three gores. Good style is combined charmingly with a certain simplicity that makes the suit all the more attractive. The usual materials are employed.

The pattern, No. 6073, is cut in sizes 14, 16 and 18 years. Medium size will require 3½ yards of 54-inch material and ½ yard of 24-inch velvet. Price of pattern, 10 cents.

6036 Girl's Blouse Dress.—A pretty frock for the little girl is here shown. It is made in the popular blouse style and is very becoming to any small miss. The blouse is slipped on over the head and the kilt skirt is joined to an underwaist. The sailor collar and cuffs are fashioned of contrasting fabric with navy blue or red serge for the frock.

The pattern, No. 6036, is cut in sizes 6 to 12 years. Medium size will require 2⅞ yards of 36-inch material and 1 yard of 27-inch contrasting goods. Price of pattern, ten cents.

6038 Boy's Suit.—Navy blue serge was selected for the development of this style boy's suit. The blouse is made to be slipped on over the head, has applied yokes and may be made with or without the tucks. A patent leather belt holds it in place. The trousers are the usual bloomers finished with legbands or elastics.

The pattern, No. 6038, is cut in sizes 2, 4 and 6 years. Medium size requires 3¼ yards of 36-inch material. Price of pattern, ten cents.

5934 Lady's Waist.—This stylish waist closes at the left side of the front and choice of two styles of sleeve is offered. The garment has shoulder plaits at the back, also a yoke which extends over the shoulders at the front. Wide insertion bands may be used or the garment may have a frill at each side of the center front.

The pattern, No. 5934, is cut in sizes 32 to 42 inches bust measure. Medium size requires 2⅞ yards of 36-inch material. Price of pattern, ten cents.

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PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER LESSON IX. GEN. XV. 1. 5-18 March 2, 1913

GOD'S COVENANT WITH ABRAHAM —THE STORY.

Nomadic life has always its own strong attraction. But the story of the migrations of this first of pilgrim fathers has a fascination peculiar to itself. Before the eye of imagination his caravan seems to pass. There goes the venerable shiek, clad in his crimson robe, wearing his silken turban with its fillet of rope. His "princess," in all her Oriental finery, rides beside him. There are the armed scouts on fleet horses; the noisy herdsmen, urging on the flocks and droves; the women and children, 1,000 souls and more; and the long train of beasts of burden, carrying the impedimenta of a great camp. Some time after Abraham's arrival in the Land of Promise it pleased God to arrest his journey by the outshining of the Shekinah and give him more explicit terms for the promise. There is a significant change of name ordered in the case of each party concerned in the convenant. The Deity himself condescends to follow the custom of man and at this juncture give himself a new and significant name; namely, El Shaddai—the All-sufficient God. Abram's name is changed from Exalted Father to Father of Nations, Abraham. Sarai, my princess, to Sarah, pricess universal. This change of name was a device of the eldest times, when means of intercommunication and record were scarce, to arrest attention and fix in memory important events and change of circumstance. By this means it was advertised to Abram's motly clan, and the surrounding tribes as well, that this aged sheik should miraculously beget a son by his own and venerable wife, from whom in turn should spring noisy masses and tumultuous nations. The pledge of this incredible circumstance was the new name of the Deity. He was "sufficient" for this thing. "I am the Almighty God." On that golden hook Abraham could hang his faith. And he did! He fell on his face, in that very act of adoring worship, appropriating the promise in all its fullness. In the injunctions, "Walk before me!" and "Be perfect!" there is gentle hint of the times when Abraham had failed to see the Invisible, and had stooped to ignoble devices to ward off imaginary dangers. This is no new convenant, but the happy assurance that Almighty God is rising to set in motion toward their blessed consummation the contents of the covenant, the first elements of which were given at least thirty years before in Ur of the Chaldees.

The Teacher's Lantern.

What a bugaboo "perfection" is to many people! Yet twenty centuries before Christ, God commanded Abraham to be perfect, and Jesus, with this very command apparently in mind, directs his disciples to be perfect even as their Father is perfect. El Shaddai should be the mystic tailsman, the broad phylactery bound upon our foreheads. God's almightiness ought to stir our feeble faith, make us realize the promises, however exceeding great they are. Saved from many a snare would we be if we only walked before the Lord, conscious that his eye was on us from above. "Thou, God, seest me." The Lord said, "Walk before me." The thought of a continued purpose inheres in the word—set thyself, be firmly purposed, thoroughly determined to obey before me. Truth is, literal and spiritual, run side by side in the history of God's favored people. Abraham is literally a father of nations—Arabia, Midian, Ammon, Moab, as well as Israel. But he is also the Spiritual Father of the nations that are now being born in a day by the preaching of the gospel. Kings are his offspring—David and Solomon, literally; all believers spiritually, who are made "kings unto God." His descendants are literally and phenomenally numerous, but his spiritual descendants are already numbered by the hundreds of millions.

WEDDING BELLS!!

"Let Them Ring for You at Waterloo"
—GALLOWAY

This is an offer to any young couple who is contemplating marriage. If you will come to the Galloway Agricultural Club in Waterloo and have the knot tied here, I will pay for the license, furnish the minister, flowers, music and a fine wedding dinner—all free! And listen—I'll also give the bride and groom a handsome present.

Let Me Entertain You

I want Farmers and their Families to visit me here at Waterloo. Come on over while you've got time for a vacation. I'll take care of you—free—at our splendid $60,000 Agricultural Club, planned and built for my Farmer Friends. Plenty to eat, music, good company—everything to make you enjoy life while here. Last week over 500 Farmers visited my big chain of factories. Many of them bought Engines, Spreaders, Cream Separators, etc., at a big saving, direct at factory prices. No obligation to buy, though. Just come and spend a day or a week, if you like, as my guest. I'll give you the time of your life.

Special 5% Discount!

If you cut out this "Ad" and bring it with you, I will give you a special 5% discount on your purchases while here. This will help pay your railroad fare. And remember, your expenses are paid while in Waterloo.

If You Can't Make the Trip Right Now, Write Me When to Expect You

WILLIAM GALLOWAY, Pres.
The William Galloway Company
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Biggest Stumps Pulled For 4c Each—In 5 Minutes!

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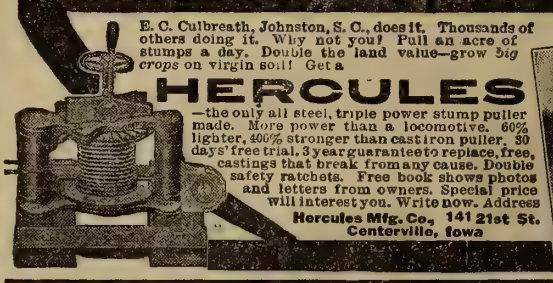

E. C. Culbreath, Johnston, S. C., does it. Thousands of others doing it. Why not you? Pull an acre of stumps a day. Double the land value—grow *big crops* on virgin soil! Get a

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—the only all steel, triple power stump puller made. More power than a locomotive. 60% lighter, 400% stronger than cast iron puller. 30 days' free trial. 3 year guarantee to replace, free, castings that break from any cause. Double safety ratchets. Free book shows photos and letters from owners. Special price will interest you. Write now. Address
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A Pair of $3 Gloves FREE

You can share profits with me this winter. Every one of my friends will get absolutely free a pair of fur gauntlet gloves or mittens (just as you prefer) with each horse, cow, steer or bull hide which we tan and make into a coat or robe—workmanship guaranteed. Send for prices and our valuable booklet, which has a large amount of information on how to select and care for hides, how to choose the best hides for fine coats, how to ship hides, etc. Write today. Address
H. B. Mickle, Pres.,
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is NOW in the Province of
SASKATCHEWAN
Western Canada

Do you desire to get a Free Homestead of 160 Acres of that well known Wheat Land? The area is becoming more limited but no less valuable.

New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homesteading land left.

A Swift Current, Saskatchewan farmer writes:—"I came here on my homestead, March, 1906, with about $1000 worth of horses and machinery, and just $35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 50 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta.

Send at once for Literature, Maps, Railway Rates, etc., to

Frank H. Hewitt
Des Moines, Iowa
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R. A. Garrett, 315 Jackson St., St. Paul, Minn.
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I HAVE a finely improved farm of 280 acres, two miles from good town, only 18 miles north of Iowa line, at $85.00 per acre. $2,500 cash will handle this fine farm—and it certainly is a fine one. Also have a fine farm of 320 acres at $70 per acre, and one of 400 acres at $75.00 per acre. Any one of these are worthy of your consideration.

11 sections of selected prairie land in Lincoln county, Colorado, at $9.50 per acre. This tract will make a fine colonization proposition.

18 sections in Billings county, North Dakota, in a very fine stock ranch with good buildings. Northern Pacific Railroad runs through the land. Will sell at $5.00 per acre. Small cash payment. Balance to suit at 6%. The coal alone on this land is worth many times more than the sale price of ranch.

In Wisconsin I have some very fine cut-over lands that are suitable for dairying. Finest water in the world. Greatest tame grass country in the United States. Lands are near markets and will sell at $7.50 to $10.00 per acre, upon your own terms. A small cash payment will secure you one of these tracts. Write for information concerning any locality you may be interested in. **Geo. R. Slocum,** 601 Pioneer Building, St. Paul, Minnesota.

NEW LAND NEW TOWNS

1,000,000 acres] of land in five northwestern counties of Oklahoma have remained undeveloped because the nearest railroad was 10 to 35 miles away. The new extension between Joplin, Mo., and Muskogee, Okla., of the Missouri, Oklahoma & Gulf Ry., is now completed and opportunities are here offered to those who are quick to take hold and secure business property and farming land.

The M. O. & G. Ry. has no land to sell but will cheerfully answer all letters of inquiry with the view of giving out reliable information to all who make inquiry. Address H. L. Traber, General Passenger Agent, M. O. & G. Ry., Muskogee, Oklahoma.

MINNESOTA

KITTSON and Roseau Co..open lands;a few groves for shelter,good graded roads and cement bridges and drainage ditches; perfect system, a gift by the state to the lands, a gift to you who buy the lands; a small balance payable with the tax for a few years. See sample of soil and grain in our office; clay subsoil. Price $15.00 to $50.00. Choice unimproved $25.00 to $35.00. Don't stop to write. Come to see us and let us show samples and explain the drainage; better than Illinois tiled lands. Also our special contract, something new and good for you. Don't rely on letters and pictures but come and see. **W. H. STELLMACHER, 407-409 Clapp Block, Des Moines, Iowa.**

BREEDER'S LAND BARGAIN

HAVE 1,300 cut-over timber land with considerable timber standing. Located in Hubbard Co., Minn., 4½ miles from 2 good towns. Very good soil, highly productive. Specially adapted to farmer who combines live stock with grain farming. Investigate, and I will show this to be one of the biggest snaps in the country. Must sell. Address

M. L. TANKEL

573 Seventh Avenue No., Minneapolis, Minnesota, for prices and further particulars.

MISSISSIPPI

FOR SALE—3,555 acres of good hill cotton land, now in successful operation; well supplied with good negro labor. The plantation lies between two branches of the Illinois Central R. R.; nearest shipping point 4 miles from the dwelling. The land corners within ¼ mile of the shipping point. A sufficiency of cabins for tenants, stables, cribs, cotton bins, and all outhouses;36 head of mules and horses, cows, farming implements and feed stuffs. Price very low; terms good. Address **A. C. LEIGH, Grenada, Mississippi,** bona fide owner.

CLARK COUNTY, WISCONSIN

VIRGIN land, easily cleared, good soil, healthful, climate, adequte rainfall; roads, churches and schools, creameries and markets; all conveniences of a well-settled, prosperous community.

$18 PER ACRE

On terms to suit you. Monthly payments of $12.50 if desired. Special bargains for those who buy before spring. Write for full particulars to

WEST-CANNON-BISSELL COMPANY,
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A FARMER'S STATEMENT Hon. Edward Nordman, a farmer in Upper Wisconsin, says that he can keep a dairy cow per acre,and that he makes $3,000 per acre from 60 acres of improved land. About cheap upper Wisconsin land, write, Wisconsin Advancement Association, 331 Caswell Block, Milwaukee, Wisconsin.

MINNESOTA has a home for you. Good land at low prices. Literature giving information about soil, climate, price of land, etc., sent free on application to H. J. Maxfield, Commissioner of Immigration, Room 208, State Capitol, St. Paul, Minn.

ENGRAVING Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

SILOS ON THE STAKED PLAINS.

A new Southwest is in the process of making. According to cattlemen the silo promises to transform the cattle industry in the great plains states and make them producers of fat cattle, instead of raising thin cattle to be fattened in the corn belt.

Cattlemen at the stock yards say that in the past ten years the country to the west and southwest of Kansas City has produced about 65 per cent of the cattle that have been fattened in feed lots east of the Missouri River. This region is preparing now to fatten its own cattle according to the Kansas City Star.

R. E. Cable, of Amarillo, Tex., marketed in Kansas City cows fattened on silage. They sold at $6.50 a hundred pounds, the highest price he ever received for cows.

"All over Patten county, where I live," said Mr. Cable, "silos are looming up, and before the close of the present year hundreds of more will have been built. This means that we will fatten our cattle for market instead of selling them to corn-belt feeders as formerly. We can produce plenty of kafir, milo maize, cane and other rough feed to fill the silos, and with cottonseed by-products and grain to be had, Texas in a few years will produce more fat cattle than any other state. In former years the lack of low priced rough feed in winter made cattle feeding impracticable, but now the silo solves that problem."

The King ranch, in southern Texas is installing forty-five silos, with a total capacity of 5,000 tons. On the "J. A." ranch, near Paloduro, Tex., a large number will be built. The "S. M. S." ranch, near Stamford, Tex., has several silos. Travelers from Kansas City to Amarillo, Tex., say that one never loses sight of silos on the trip.

Some of the commission men at the stock yards believes that the knowledge of this development is the chief reason why the new owners of the stock yards invested here. They believe that it will result ultimately in putting Kansas City ahead of Chicago as a market for fat cattle.

With the southwest ranchmen fattening the cattle they raise, instead of shipping them to the corn belt to be finished, it will become necessary for farmers in the corn belt to raise cattle more extensively, or else go out of the feeding business.

A GOOD RECORD IN HOG FEEDING.

To the Editor of The Homestead:

I would like to submit for the perusal of your readers my records for the last year in handling hogs and I would very much like to hear through your columns from those who are able to make a better showing.

Capital invested, seven sows at $20, $140.

Capital invested, one male hog, $10,

These sows farrowed forty-nine head of pigs, two of them being three years old and five one year old. Sold $514.70 worth of young pigs in the market. In addition I received $72 for two old sows; $56 for four brood sows sold to farmer; $15 for one male sold to farmer; $40 for three hogs for home meat and $2.30 for pigs given to minister, making a total of $700.

COST OF FEEDING.

Pasture	$ 10.00
Three acres of corn and rape hogged down	45.00
Two acres of cowpeas	15.00
Twelve acres of husked corn, forty bushels at forty cents	192.00
Shorts and oil meal	20.00
Rental for seventeen acres at $5	85.00
	$367.00
Twelve acres stalks at $1 per acre	$ 12.00
Eight tons of fertilizer	8.00
	$ 20.00
	$347.00

Subtracting $347 from $700 leaves $353.

$353 represents hog fat profit.
$347 represents feed.

Fed 700 bushels of corn and shorts and sold $700 worth of pork, or received $1 per bushel for corn at home. Have thirty-two pigs one month old from these same sows, this record being made in less than one year. Does it pay to raise hogs on $150 land? It is a trade, not a happenso. F. E. Morrell.

Linn county, Iowa.

LOW FARES to CANADA

Settlers! Go to Canada via the Duluth-Ft. Frances Gateway or via St. Paul and Winnipeg, over the **Canadian Northern Railway.** Even if you have already selected your farm you have the advantage of traveling from 1550 to 2500 miles through Canada's richest farming country. Tickets on sale **every Tuesday** March 11 to April 29, 1913.

Just glance over these low rates—second-class, one-way fares for settlers. Tickets good for stop-over privileges.

ONE WAY

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This would make a splendid home for some one who does not want to work a large farm and also a splendid investment, as the city of Springfield is rapidly growing, on account of it being headquarters for the shops and offices of the great Frisco railway system.

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KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

FOR SALE—Missouri farm, 443 acres, two miles from Palmyra, Missouri. Write to owner, Geo. J. Thurwachter, Palmyra, Missouri.

Keeping the Acre Busy.

I HAVE been impressed for a long time with the fact that the work that is being done by the experiment stations and the colleges of agriculture is attended with some dangers in this respect: We appoint in the college of agriculture a number of specialists—men who devote their time to the study of corn, or hogs, or cattle, or apples, etc., and each of these men investigating his particular problem comes to feel that his subject is about the most important one ever investigated by man up to this present century. There is a danger that the farmer himself may lose to some extent the proper attitude in reference to the relation of things, and it is therefore most important that we should understand the fundamental principles which should govern a series of farm enterprises for a consecutive period. I can understand how it is possible for a man to produce the finest corn and get the silver cup at the corn show, and perhaps win all the prizes at the National Corn Show, and yet be an unsuccessful farmer from a money-making point of view. I can understand how it is possible for a man to produce the finest beef cattle or the finest sheep or the finest horses and yet be an unsuccessful farmer, and therefore it seems to me that we should look upon these various intensive plans of agricultural betterment in relation to their effect upon a successful agriculture.

Now, as I have examined the various facts and investigations relating to agriculture in the past twenty years, I have become more and more convinced that of all the fundamental things with which we have to deal in the cultivation of the soil the most fundamental thing of all is the productiveness of the acre of land. It does not matter whether you are a beef cattle farmer or a dairy farmer or a grain farmer or any other kind of a farmer—the fundamental essential to your successful agricultural enterprises is the productiveness of the acre of land. Now, unfortunately, the systems of agriculture which we have practiced during the past 100 years have practically neglected the consideration of that fundamental thing. We have found here land of reasonable fertility, and we have treated it precisely as the coal miner or the copper miner has treated his mine, and we have contracted from the soil year after year the stored fertility in that soil until in many cases agriculture has come to be unprofitable, not because a man does not know how to grow good corn, not because a man does not know how to produce good cattle, but because the labor and expense devoted to an acre of land has become equal to or greater than the income from that acre of land. There is no business known to me where the fixed charges of production are so nearly uniform as in agriculture. Suppose we assume, for the purpose of this illustration, that it requires about twenty bushels of corn to pay the fixed charges; that is, it costs just as much to plow an acre of poor land as it does to plow an acre of good land, it costs just as much to harrow it, just as much to plant it, just as much for the seed and just as much to cultivate an acre of corn that produces twenty bushels per acre as an acre of corn that produces sixty bushels. And yet what is the relative profit? If we are cultivating land that yields twenty bushels per acre we are absolutely standing still; we are getting good wages for the time we are putting in, and the man who is farming that kind of land and getting that kind of a crop, rather than continue in that way, would be better off on his own account and the state would be better off if he would sit in the shade and smoke his pipe instead of robbing the soil still further of what little fertility it has.

Now suppose that we had an acre of land that produced twenty-five bushels per acre. In that case the charges are practically the same, but we have five bushels profit at fifty cents per bushel, or $2.50 on the acre. But suppose we had land that would produce sixty bushels of corn; in that case the charges are practically the same. It will take twenty of the sixty bushels to pay these fixed charges, and we have a profit of approximately forty bushels per acre. I grant that it will cost a little more to harvest sixty bushels than twenty-five bushels, but in substance my comparisons are sufficiently accurate for my purpose. Forty bushels profit at fifty cents a bushel amounts to $20 profit. Now, twenty-five bushel land as compared with sixty-bushel land is as $2.50 profit is to $20 profit; that is, about eight times as much profit from land that produces sixty bushels to the acre as from land that produces twenty-five bushels to the acre. Now, is it true that a man had better own one acre of land that produces sixty bushels of corn under average conditions than to own eight acres of land that produces twenty-five bushels per acre? That's an economic problem that will pay us to think about carefully. The longer you live and the more you think about it the nearer you will come to admitting that it is better to own one acre of land that produces sixty bushels of corn per acre than to own eight acres producing twenty-five bushels per acre. Now what are the farmers going to do who have twenty-five bushels to the-acre land? That's the big problem of Missouri, Iowa, Illinois, Kansas and of every other state. The average yield of corn is around thirty bushels to the acre in all these states I have mentioned.—[F. B. Mumford in Missouri Report.

FEDERAL AID FOR ROADS.

The widespread demand for national road building has awakened great interest in congress. Sen. Jonathan Bourne, Jr., of Oregon, chairman of the joint congressional committee on federal aid for highways, published recently a series of questions relating to the need of the proposed federal appropriations. A letter stating the position of the advocates of national good roads, has been written by Judge J. M. Love, of Kansas City, president of the National Old Trails Road Association. The letter was designed especially as an answer to Senator Bourne's question. It follows in part:

There is much confusion of thought on the road question. So-called "federal aid"—a misleading phrase—is responsible for much of this confusion. It ought to find no place in road literature. The states need no "aid" from the general government or from any other source in building their own highways. The state does not decide what roads are national. This is a function of congress alone. No question of state rights is involved, as was clearly maintained by John C. Calhoun when this question arose in legislating for the Cumberland Road.

Let Congress exercise its undoubted authority, either directly or through a commission or bureau of highways, to decide what roads are national, and take over such roads for improvement and maintenance by the government. In this way no conflict of authority can occur, no divided responsibility, no question of supremacy, no proposition of mutual "aid."

What an impracticable scheme it would be to divide the waters of a navigable stream between the states through which such stream may flow and subject it to a divided control and supervision. It would, however, be no more impracticable than to divide a national highway in such a manner.

Twenty million dollars will build any national trans-continental road in contemplation. This amount should be appropriated annually until a vast system of national highways should read every part of the country. The states and counties should enlist and apply their energies and revenues to a system of lateral or local roads, intersecting the national roads.

This system, if adopted, will not require the levying of a single dollar of additional national taxation, will build at least one trans-continental highway annually, will add millions of dollars to property values and thus increase enormously the federal revenues and add to the sum of human welfare and well being beyond any other single activity of governmental endeavor.

One of the means of stimulating the live stock industry in Canada is that of furnishing of steers at cost to farmers' sons who will undertake to feed them, the profits on sale to be paid to the boys.

At the present time a pound of butter fat is worth more than a bushel of corn or oats. Is it any wonder that the dairyman is pleased with his work or that the silo is gaining in favor?

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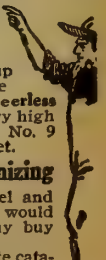

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THE MARKETS.

Union Stock Yards, Chicago, Ill., February 21st.—Considering supply figures, the beef steer market has done a very creditable stunt this week. Chicago's receipts will reach nearly 51,000, or about 12,000 more than the week previous, while there has been an aggregate increase of 20,000 at six leading western markets over either last week or a year ago, yet everything in the steer line has cleared with reasonable celerity, with closing prices on most grades of beef steers about steady with the close last week, giving current values a legitimate appearance, as this trading basis is shown despite weather of the consumption repressing brand. The market is undoubtedly on a much more substantial basis than it was some three weeks back and the trade now realizes that low spot for the season was uncovered at that time. Feeders who a few months ago were clamorous for an invitation from their commission houses to load are now viewing the prospects complacently, as if confident that the process of putting on a little more weight would be profitable. February does not bear an enviable reputation in its relation to the cattle market, especially where fat cattle are concerned, and the improved trade conditions since the month's opening have therefore been more than was expected by many. Prime weighty steers are scarce and subject to very little fluctuation in value at this time, although killers are demonstrating their ability to get alone with very few heavy bullocks, good, bad or indifferent. Retailers want light carcasses and consumers small steaks and roasts. In trade circles an opinion exists that weighty cattle will be handicapped right along. Feed abundance always has had the result of furnishing plenty of heavy beef late in the winter. Killers are now getting few decent steers of any weight below $8, and the upturn within the last fortnight has resulted in a broad trade at $8.25 to $8.65. While this week's top was only $9, a really prime drove of bullocks would doubtless have been eligible to $9.25. The bad spot in the Lenten season in the cattle trade is invariably the week before Holy Week, which this year ends March 22d. Country shippers will doubtless profit by keeping this in mind.

Stock and feeding cattle trade is not waiting for the arrival of the grazing season to do the pyrotechnical stunt that had been predicted for it. For the past three weeks the trend of values, already high, has been steadily upward and thin and fleshy feeding steers of all weights are now not only selling at the highest prices on record, but selling to a hungry demand at the high altitude which they have attained and which they promise to hold for sometime ahead. It is a remarkable trade, an outstanding feature of which, in addition to its volume at the prices, is the narrow spread that exists between decent, thin, young stockers and fleshy, strong-weight feeders. Prices range from 10 to 25 cents higher than a week ago and quality, rather than age or weight, determines the selling price. While prices look dangerously high, there is much in the outlook, if statistics are worth anything, to warrant the belief that purchasers of thin young cattle at current lofty rates are by no means bereft of reason. From both the cattle feeders' and the consumers' standpoint, the beef cattle situation is alarming. With a total cattle supply in this country estimated by the government at 36,000,000 head, other than milk cows, against better than 50,000,000 twelve years ago, accompanied by a 20,000,000 increase in population in the United States, the country full of feed of all kinds, much of which must either be fed or wasted, and the grazing season close at hand, there is much reason for the belief that the present $7.40 to $7.85 market for the bulk of the good 600 to 900-pound thin steers and the $8 to $8.35 trades that have been recorded this week in selected yearlings and fleshy feeders of fancy class are warranted. Stock steers now selling at $7 to $7.25 are light and very ordinary in quality and it is not taking much of a bunch of feeding heifers to sell around $6.

Prices on butcher stock have been undergoing a readjustment process this week, the increase in supply giving buyers opportunity to work the hoof cost of cows, heifers and bulls down to a point nearer in line with steers, killers having contended for sometime past, and their stand has not been subject to criticism, that butcher and canning stock was relatively too high. Ten to 15-cent declines from a week ago are shown by medium to good cows and heifers, canners are about 10 cents lower and bulls have had a 25 to 30-cent decline from that high time when any good, strong-weight bologna bull was worth $6.15 to $6.25 on this market. Calves are holding firm prices, moderate receipts and some outside shipping orders stiffening the demand.

Cattle quotations at Chicago at the close of this week's business follow:

BEEF STEERS.

Prime steers, 1,350-1,700 lbs.	$9.00@9.25
Choice steers, 1,250-1,500 lbs.	8.75@9.00
Choice steers, 1,100-1,240 lbs.	8.60@8.80
Good to prime yearlings	8.25@8.70
Medium to good yearlings	7.75@8.20
Common to fair yearlings	7.00@7.60
Good steers, 1,100-1,400 lbs.	7.75@8.40
Good steers, 900-1,200 lbs.	7.75@8.00
Fair steers, 900-1,200 lbs.	7.50@7.75
Medium steers, 850-950 lbs.	7.25@7.50
Inferior steers, 850-950 lbs.	6.85@7.25
Common steers, 800-850 lbs.	6.50@6.75

FEEDERS.

Selected, 900-1,150 lbs.	$7.75@8.15
Fair to good, 700-900 lbs.	7.20@7.60
Plain to good light	6.50@7.10
Feeding heifers, poor to good	5.35@6.10

STOCKERS.

Selected, 500-700 lbs.	$7.40@7.90
Good straight lots	6.90@7.25
Fair plain lots, 500-600 lbs.	6.40@8.85
Common to plain mixed	6.00@6.35
Heifers, common to good	5.00@5.75

BEEF COWS.

Choice to prime fed cows	$6.40@7.15
Good to choice cows	5.75@6.35
Fair to good cows	5.10@5.70
Common butcher cows	4.40@5.00

CANNERS AND CUTTERS.

Good to ch. heavy cutters	$4.25@4.40
Fair to good light cutters	4.10@4.20
Fair to good canners	3.80@4.05
Poor to fair canners	3.50@3.75
Old, thin, weak shells	3.10@3.40

HEIFERS.

Choice to prime heifers	$7.10@7.85
Good to choice fed heifers	6.60@7.00
Fair to good heifers	6.00@6.50
Common to fair heifers	4.75@5.75

BULLS.

Good to choice bolognas	$5.90@6.00
Light and medium bolognas	5.60@5.85
Canner and poor light	4.25@5.00
Good to choice butchers	6.00@6.25
Choice to fancy beef	6.35@7.00

VEAL CALVES.

Good to choice vealers	$9.75@10.35
Fair to good light vealers	8.75@ 9.60
Strong weight vealers	7.25@ 8.75
Good to ch. stock calves	6.50@ 7.25
Inferior to fair hvy. calves	4.50@ 6.00

Further proof that the recent sharp upturn in hog values was legitimate has been on top this week. At the close of last week the general average price at Chicago stood $1.10 above the low spot of the winter, hit on December 18th, when the average cost of Chicago droves dropped to $7.12. Yet no time within the last few weeks of an awaiting price list has the healthy condition of trade jarred loose more than a fair weekly run of hogs from feeders' hands. Six western markets received but 362,000 during the first five days this week, or 15,000 less than like period of the week previous and 43,000 less than a year ago. Today's trade closed strong with an $8.50 top on prime lights and the bulk of the supply selling at $8.30 to $8.40, or 15 to 20 cents higher than a week ago. Since January 1st there has been a decrease of 758,000 hogs as compared with the corresponding time last year in the aggregate marketing at six leading western points. This shortage, costly beef and the further fact that the public is not getting access to unlimited quantities of cheap mutton as was the case a year ago, seems abundant reason for the present high hog market and anyone laboring under the impression that hogs are going to sell much cheaper soon has another think coming. Patrick Cudahy, the packer, was a Chicago visitor this week and gave utterance to the following bullish prediction:

"I think that there never was such a shortage in the meat supply in the history of the world as exists at the present time. Anybody who can figure in pounds the shortage indicated by the government report of last month will find that the shortage runs up to one billion and two hundred odd millions of pounds.

"I believe that hogs will sell at $9 or higher in April. Most of the hog shippers from the country whom I talk with now and then say that next summer is when we will feel the real shortage of hogs. The provision situation looks stronger every day. We are just finishing the four big packing months, which are generally months of light trade, yet we have accumulated little or nothing in the way of product. We are now just finishing the four big packing months, which are generally months of light trade, yet we have accumulated little or nothing in the way of product. We are now just at the beginning of three months when receipts of hogs are generally light and trade big. It is the beginning of the cotton-planting season, and when the colored man works he must have his pork."

Today's Chicago hog quotations follow:

Bulk of sales	$8.30@8.40
Mixed, 215-250 lbs.	8.20@8.32
Mixed, 170-200 lbs.	8.30@8.37½
Medium weights	8.30@8.37½
Light butchers	8.35@8.45
Heavy butchers	8.35@8.40
Light shipping	8.40@8.50
Heavy shipping	8.35@8.40
Heavy packing	8.10@8.30
Rough heavy packing	7.90@8.10
Throwout packing sows	7.35@7.85
Fair to choice light	8.25@8.40
Light-light, 135-165 lbs.	8.20@8.40
Pigs, good to fancy	7.40@8.25
Pigs, inferior to fair	6.50@7.55
Boars, poor to good	3.25@4.50
Stags, subject to dockage	8.35@8.75
Government throwouts	4.50@6.25

Matured muttons have advanced 15 to 25 cents this week, while fat lambs have declined 25 to 35 cents, with many heavy lambs selling 50 cents lower, thus materially lessening the gap between sheep and lamb values. This narrowing of the spread has made good abundant prediction and many in the trade express the belief that the two classes are scheduled to sell still closer together.

Colorado is running lambs freely, as if desirous of taking current prices and shutting off the feed bill, and expectancy is for a big March run from that source, but corn-belt feed lots, outside of western Nebraska, have been all but exhausted, and Buffalo and other eastern markets will be bare right along, forcing butchers down that way to come West for their supplies. It is probable that the lamb trade will be choppy the rest of the winter and during the early spring, as it has been thus far this year, but that prices will continue on a remunerative basis to feeders there is little room to doubt. Aged sheep are now selling higher than at any time since last May, with sales of prime fed western wethers and ewes as high as $6.75 and $6.40, respectively, here late this week; but best lambs are now 65 cents below the January high spot and heavy lambs, which are meeting strong discrimination, are nearly $1 per hundredweight below the season's best levels. Quotations:

Lambs, good to prime handy	$8.50@8.85
Lambs, good to prime heavy	7.50@8.50
Lambs, fair to good natives	8.25@8.60
Lambs, common to fair	7.85@8.25
Lambs, culls	6.50@7.75
Wethers, good to prime	6.40@6.75
Yearlings, fair to ch. handy	7.25@8.00
Yearlings, fair to ch. heavy	6.75@7.50
Ewes, fair to best handy	5.60@6.25
Ewes, fair to prime heavy	5.65@6.15
Ewes, culls	4.00@4.50
Bucks	3.75@4.25
Lambs, feeders and shearers	7.50@8.35
Wethers, feeders	5.00@5.50
Yearling wethers, feeders	6.00@6.50

SOME THINGS THE YOUNG FARMER SHOULD KNOW.

Under the title "The Young Farmer —Some Things He Should Know," a volume has recently appeared from the pen of Dr. Thomas F. Hunt. Here is a book which every man, young or old, taking up farming as life work, will find an interesting, readable, practical guide covering the whole subject. The author, who is one of the safest and wisest counselors in this country on agricultural matters, is himself a farmer and has had wide experience with young men and farmers, obtained through his many years' association in college work. This new book was written for the young man, although it is fully as useful to farm people of all ages and will prove extremely valuable to those who read it. The following table of contents will indicate the nature of splendid suggestions and advice in pointing out the things the young farmer ought to know: Essentials of Success, Means of Acquiring Land, Farm Organization, Opportunities in Agriculture, Where to Locate, Size of Farm, Selection of Farm, The Farm Scheme, The Rotation of Crops, The Equipment, How to Estimate Profits, Grain and Hay Farming, The Cost of Farming Operations, The Place of Intensive Farming, Reasons for Animal Husbandry, Returns from Animals, Farm Labor, Shipping, Marketing, Laws Affecting Land and Labor, Rural Legislature, Rural Forces.

This paper is in a position to supply its readers with single copies of this volume at $1.50.

FIRST PRINCIPLES OF FEEDING FARM ANIMALS.

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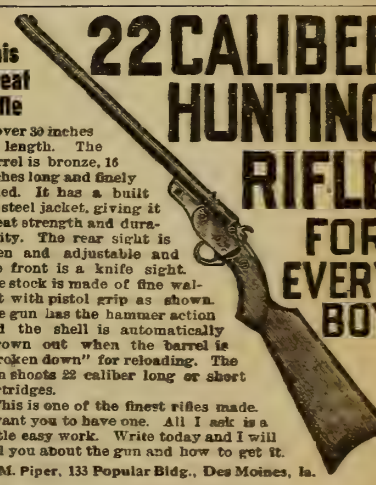

is over 30 inches in length. The barrel is bronze, 16 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

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A MODEL LIVE STOCK FARM.

(Continued from page 3.)

production on this banner Illinois farm. A combination hay of cowpeas and millet is profitably grown at Gregory Farm. About forty acres of this combination roughage are cropped, the yield amounting to about three tons to the acre. The hay is of superior quality and is highly relished by all classes of live stock. It is particularly rich in protein, and constitutes an inexpensive source of this valuable feeding element. Small lots of rape, which aggregate about five acres, are raised for summer and fall hog pasture, while an additional ten acres of sorghum are also grown for feeding purposes. The home consumption of all this grain and roughage means that a veritable mine of fertility is maintained right on the place in the guise of the hundreds of head of live stock that are maintained in the permanent breeding herds.

Perhaps the average reader is not familiar with the fact that Mr. Corsa maintains a large herd of Jersey cows in addition to his other live stock operations. The milking herd rounds out the labor question to a nicety; that is to say, the time of the hired help is wholly utilized in profitable production with the dairy as an adjunct to the swine and horse-breeding operations. Two prepotent and well-typed, pure-bred Jersey bulls are kept in service on the farm, so that approximately forty head of young stock are sold each year. The cream of the heifers are kept on the farm in order to recruit the milking herd as the need arises, while the other young females and males are disposed of.

When Mr. Corsa sold Star Masterpiece, one of the best boars that ever lived, for $5,500, he created a furore in swine-breeding circles all over the world. Such a price for a "plain pig" seemed the height of folly and extravagance. However, subsequent results have demonstrated that this male was well worth the money. The Corsa "Berks" show a preponderance of Masterpiece blood. It is unnecessary to mention at length the excellence of this strain of outstanding merit. Anyone familiar with Berkshires in the United States knows that the Masterpiece families occupy the same position among the "stub noses" that the Vanderbilts hold among New York's "four hundred." It is also sufficient to say that all the Gregory Farm Berkshires are of corresponding type, quality and excellence. This is a farm on which none but the best survive. Each pig and mature animal is submitted to a Spartan-like test that features only the survival of the fittest. The "culls" are fattened and marketed.

The herd boars that are used at present in the Corsa herd include invincible Masterpiece, Fearnot Masterpiece, Rival's Emblem, Invincible Verdict and Superba's Masterpiece. Among the leading sows of great producing sons are Lee's Artful Belle 30th, Matchless Perfection, Duchess Robin Hood 2d and Longfellow's Duchess 3d. These animals are all champions of their kind which are unexcelled as fine specimens of the breed. As far as possible pigs are raised and the mature animals are maintained under absolutely natural conditions. Plenty of exercise and out-of-door life stand for hog godliness on the Gregory farm. By nature the swine are rustlers and foragers and if the breeder unduly restrains or confines the animals the earmarks of this bad management are sure to be indelibly impressed on the offspring.

A large central farrowing house is maintained which provides twelve large pens for the sows that are about to farrow and their subsequent litters. Sanitation rules supreme in this house. Mr. Corsa fights disease with cleanliness and sanitary precautions. "Control the germs by keeping the farm free of them," is the advice of Mr. Corsa to the hog farmer. Hog cholera is a stranger that never is known at the Gregory Farm. The practice of strictly sanitary management prevents this pestilent scourge from even establishing a speaking acquaintanceship with the Corsa Berkshires.

A noteworthy feature of the farrowing house is a small annex sun parlor which is twelve by four feet in floor dimension. The roof of this sun-bath slopes toward the South. Both the roof and southern side of the building are made of glass. In consequence the sunlight penetrates to every nook and cranny of the building and it furnishes an ideal place for the sow and her litter to bask in the sun even during the most severe days of winter. The house is equipped with a wooden floor on which there is a wooden overlay that can frequently be removed and cleaned. Such a house should prove of great value to the farmer who experiences difficulty in raising two crops of pigs a year on account of inclement climatic conditions. The structure is relatively inexpensive and it pays for itself times over in the lives of the pigs that it saves.

As soon as the pigs are old enough and the weather is fairly moderate each sow and her litter are removed to an individual portable house with an adjacent three-fourths-of-an-acre lot on the range. On the Gregory Farm the A-shaped portable house meets with small favor because it is so hard to keep the floors of such houses dry and warm during the winter season and also because little sunshine can penetrate to the interior of these shelters. When the hog lies down on the damp floor the animal heat of her body brings more moisture to the surface. After the pigs are weaned they are usually placed on clover or alfalfa pasture in lots of twenty-five or thirty animals. Breeding animals are sold at any time after they are 100 days old. The Gregory Farm sells about 300 breeding hogs a year. Mature sows bring from $150 to $300 while occasionally an exceptionally fine female will sell for $1,000. Duke Eunice was sold from the farm for $1,100.

The fat hogs are sold in small lots of from thirty to forty head at a time while they will range in weight from 150 to 350 pounds. During the summer the fattening porkers run on clover pasture in addition to being fed plenty of corn. In the winter the swine follow the dairy cattle and feed on corn fodder and ear corn. On Gregory Farm the fat hog crop is really a by-product of the pure-bred business. The brood sows run on clover, alfalfa and blue-grass pasture as long as it lasts. The swine are kept in the pink of healthy condition all the time. A slop feed of two parts of wheat middlings to one of ground corn is used to particular advantage in the hog ration. Skim milk is used only in weaning the pigs, as the farm provides only about one-half enough skim milk for this purpose.

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TEN YEARLY PAYMENTS

PRAIRIE ROCK FOR ROADS.

Common prairie rock, properly crushed, makes the best material for hard roads, says J. D. Clarkson, president of the 365-day road club at Carthage, Mo., an organization of business men and farmers which has built many miles of permanent roads in Jasper county.

"This may seem a little strange, coming from a district overflowing with mine gravel, considered by many to be the best road material," said Mr. Clarkson. "But our club has experimented with many materials and I speak from our experience. River gravel is also better than mine gravel. The flinty 'chats' which comes from the mines breaks up under travel like glass and pulverizes into dust. The prairie rock and river gravel pack into a smooth hard road and outwear the 'chats.'

"The most important of our club's equipment is a traction engine and a portable crusher. We find plenty of prairie rock along most of the country roads. Farmers are glad to have it removed from their fields and sometimes we use up a dilapidated stone fence. If a creek or river is near we mix river gravel with the crushed stone.

"We hear often of residents of other counties saying they could have good roads also if they had mining gravel convenient as has Jasper county. As a matter of fact, the land of those very counties probably abounds with prairie stone enough to turn every earth road they have into fine hard pikes."

The Carthage club was organized two years ago by business men who wanted more and better roads leading to Carthage. Five hundred members pay $5 a month each.

Concerning the work of the club, Mr. Clarkson says:

"The activities of the club may be illustrated notably in two instances. First, in a case where a few farmers desired to have a couple of mud holes filled and were in Carthage to get assistance. The club took hold of the propcsal and when they got through with it there were two miles of good road constructed. Another case where there had been many efforts in the last few years to build a stretch of six miles of road where it was badly needed, the club finally took a hand in the matter and by the appropriation of $500 toward the work constructed six miles of hard road.

"You will understand it just needed this little extra push to bring to fruition an enormous amount of labor that had already been done in the way of getting money, but without the assistance of the club it is probable that the road would not have been constructed so soon."

Iams and "models" of his "nifty," "big" imported "peaches and cream" Percheron and Belgian stallions and mares. Prices reduced on "business" and "show horses." All have been "inspected" by U. S. A. veterinary and certificates "stamped" O. K. by government of U. S. A. Iams gives certificate of soundness with each horse. See Iams and save $1,000 and buy a "hummer." He has many Paris and European prize winners. Iams sells "toppers" at $1,000 and $1,500.

Brood Sow Management.

By John M. Evvard, Iowa Experiment Station.

TO PRODUCE strong, healthy litters is not only necessary that the sows be fed correctly upon feeds that furnish sufficient muscle, bone and energy-making materials, but that they be handled wisely during the period of gestation.

The mother sow needs food for three important purposes; first, for her own maintenance; second, for growth on her own body; and third, for the nourishment of the fetal pigs. Corn lacks muscle and bone formers and in addition is too concentrated (not bulky enough for breeding swine). Tankage, meat meal, linseed oil meal, skim milk, buttermilk, bran, oats, middlings, shorts, soy beans, clover and alfalfa are the logical supplements to corn in the middle west. At the Iowa Station we have found that most excellent rations for gilts carrying litters are:

1. Corn 88 to 90 per cent, meat meal or tankage containing 60 per cent protein, 10 or 12 per cent.
2. Corn 75 per cent, finely cut clover or alfalfa 25 per cent.
3. Corn 80 per cent, oats, chopper clover or alfalfa 10 per cent, meat meal or tankage 10 per cent.

For old sows the proportion of meat meal or tankage can be cut down practically one-third to two-fifths and still get excellent results.

Stronger, healthier litters having more hair, more color and more bone have been the result whenever we added a suitable protein and ash supplement to corn. When we selected our supplements wisely we also got cheaper pigs. At present prices for purchased protein and ash supplements, meat meal and tankage are our cheapest sources.

Above all things, excepting the food supply only, and abundance of exercise is most important. All classes of pregnant animals do well only when abundant exercise is allowed. The general tone and vigor of the mother is reflected in the offspring; the better the general health and condition of the dam the stronger and more vigorous the young. Range on pasture is perhaps the best of all. Allow the sows to follow cattle for awhile, but be sure to remove them when they tend to become clumsy and heavy. Scatter the feed over the ground, such as sheaf oats, soy bean hay, etc., and let the sows gather it. Feed on the side of the field opposite the sleeping bunks. Allow hay in racks, the eating at which is conducive to light exercise. Shut the sows from the houses in the middle of the day rather than allow them to huddle up and snooze peaceably. Schemes to induce exercise cost little, yet the returns are considerable.

Warmth, dryness, ventilation and sunlight are the essentials of an ideal hog house. Such conducive conditions can be secured with a little forethought. Good dry bedding is needed and to be kept dry must be changed regularly. Arrange the houses so as to avoid drafts and heavy winds, preferably placing them in sheltered nooks. Although the hog can stand considerable cold, yet the breeding hog does not have the fat which would ordinarily keep the fat hog warm, neither does the breeding sow have such a warm coat as the horse, for instance, that roughs it. We have found in our experience that sensible shelter saves many cents.

We hog men cannot afford to feed our hard-earned corn and other grains to lice and worms. Crude oil is cheap, costs not more than $4.00 a barrel, is easily applied and does the lice up brown and black, hence why hesitate. It kills the nits on application and can be used in winter because it is an oil and does not evaporate. An old broom, a sprinkling can and a couple of hurdles handled by two active men is sufficient equipment for ridding the farm of hog lice.

Worms are serious drawbacks. I know of no better remedy than Santonin six grains, calomel four grains, to a hundred pounds of hog given once on an empty (twelve hours off feed) stomach and repeated in ten days, if necessary. It is not well to use any worm medicine upon sows within a couple of months of farrow, because all pregnant animals in advanced stages have some tendency to abort when given a strong laxative. The thing to do is to tend to the worms in time.

Laxativeness of the bowels is highly desirable as costiveness is a menace. Plenty of exercise combined with laxative feeds such as tankage, oil meal, bran, alfalfa, hay, etc., will largely solve the problem. However, if it does not, a week before farrowing an emergency remedy of an ounce of epsom salts per hundred pounds of hog will help considerably.

The essentials of brood sow management may be briefly summarized; Provide suitable food, but do not overfeed. Emphasize the protein and ash constituents. Keep the sow growing nicely, but do not fatten. Devise schemes to induce exercise. A dry, warm, well-ventilated bed in a sheltered house is in order. Kill off the lice and drive out the worms, because you cannot afford to feed parasites. Avoid constipation by natural feeding management, but resort to emergencies, if necessary. Practice gentleness with your brood sows, speak kindly in their presence, recalling always that good treatment bespeaks contentment with its corresponding

NEWS OF THE SALE RING.

(Continued from page 29.)

Neb.	41.00
20. H. W. Johnson	42.00
21. A. Shralstrom, Stromsburg, Neb.	38.00
22. H. A. Woods, York, Neb	37.00
26. O. Gustafson, Osceola, Neb	40.00
28. G. Brook	35.00
29. O. Gustafson	41.00
31. L. M. Nichols, Osceola, Neb	39.00
38. W. J. Hather, Ord, Neb	51.00

Barr & Rae's Chester White Sale.

A public sale of Chester Whites held at Ames, Iowa, by Barr & Rae on February 18th, was an unusually successful one and demonstrated that the breeders of Chester White hogs are fully as energetic in their pursuit of the best and fully as appreciative of quality as are those who are engaged in the production of animals of other breeds. Fifty-three head were sold at an average of $74 each. The top price of the sale was $174, J. L. Dickerson, Knoxville, Iowa, being the buyer. Below we give a complete list of animals sold:

1. J. L. Dickerson, Knoxville, Ia.	$174.00
2. J. L. Dickerson	140.00
3. C. C. Paul, Laurel, Iowa	73.00
4. E. J. Bronhard, Colo, Iowa	76.00
5. Iowa State College, Ames, Ia.	76.00
6. G. B. Satri, Jewell, Iowa	93.00
7. Alden Anderson, Ellsworth, Iowa	82.50
8. C. B. Finch, Kelly, Iowa	80.00
9. T. W. La Doux, Spirit Lake, Iowa	79.00
10. W. J. Leeper, Newton, Iowa	63.00
11. Nels Russell, Story City, Ia.	70.00
12. W. T. Horn, Pleasanton, Ia.	39.00
13. W. J. Leeper	65.00
14. Alden Anderson	65.00
15. L. O. Hansen, Ames, Iowa	45.00
16. H. W. Sawin, Northwood, Ia.	37.00
17. C. B. Finch	48.00
18. Tom Roney, Ames, Iowa	63.00
19. G. M. Person, Kelly, Iowa	45.00
20. Alden Anderson	50.00
21. W. T. Horn	40.00
22. George Person	42.30
23. H. W. Sawin	39.00
24. G. M. Person	38.00
25. Iowa State College	49.00
26. C. C. Paul	87.00
27. G. Ogden, Nevada, Iowa	45.00
28. Jonas Christen, Rollin, Iowa	42.00
29. John F. Holst, Jr., Denison, Iowa	42.00
30. F. L. Marsh, Belle Plaine, Ia.	39.00
31. W. F. Horn	33.00
32. W. H. Dunbar, Jefferson, Ia.	72.00
33. Tom Roney	48.00
34. G. Ogden, Nevada, Iowa	37.50
35. W. F. Warren, Ames, Iowa	45.00
36. August Newburger, Wesley, Iowa	59.00
37. F. W. La Doux	59.00
38. W. H. Dunbar	64.00
39. W. F. Horn	55.00
40. J. H. Ginn, Glidden, Iowa	51.00
41. Bert Kooser, Ames, Iowa	44.00
42. Chris Smellich, Colo, Iowa	42.00
43. Raymond Brown, Dunlap, Ia.	45.00
44. G. Ogden	39.00
45. Chris Smellick	46.00
46. F. L. Marsh	31.00
47. E. J. Brouhard	30.00
48. R. W. Markley, Ames, Iowa	29.00
49. C. H. Springer, Spirit Lake, Iowa	26.00
50. W. F. Horn	33.00
51. W. T. Horn, Pleasanton, Ia.	30.00
52. J. Bart, Ames, Iowa	27.00
53. J. L. Dickerson	71.00

Walker & Son's Poland China Sale.

On February 15th, at Fairbury, Neb., Thos. F. Walker & Son, Alexandria, Neb., held one of the most successful sales of Poland Chinas that has been held to date in the West. No really high prices were secured, in fact, a little more money was due these gentlemen on nearly everything in the sale. It is a fact that better sows may be had for the money in the sales made by these gentlemen than may be had elsewhere, with a very few exceptions. The herd boars were not on exhibition and the writer is of the opinion that these two good boars, Blue Valley, a son of Blue Valley Quality, and Blue Valley Orange by Big Orange, would have added much to the sale had they been on hand. They will certainly bear inspection and buyers at this sale are assured of buying choice stuff in the matings offered. The veteran breeder of big Polands, E. V. Waugh, Greeley Center, Neb., topped the sale on Lot 1 at $150. F. E. Jackson, Hurley, S. D., was a contending bidder on all of the better ones and landed the choice sow of the sale, Lot 6, at $90. The fifty head averaged $58.60, which is a very satisfactory average, everything considered. H. S. Duncan did the selling. The list of sales at $40 or over follows:

1. E. V. Waugh, Greeley Center, Neb.	$150.00
3. U. G. Higgins, Nelson, Neb.	57.50
4. Frank Roberts, Earlham, Ia.	140.00
6. F. E. Jackson, Hurley, S. D.	90.00
7. Jas. W. Anderson, Leonardville, Kan.	85.00
9. W. M. McCurdy, Tobias, Neb.	60.00
10. G. Bartles, Tobias, Neb.	55.00
11. W. G. Gewacke, Ohiowa, Neb.	52.50
12. T. E. Griffith, Fairbury, Neb.	50.00
14. R. E. Ridgley, Pickrell, Neb.	52.50
15. W. E. Epley, Diller, Neb.	52.50
16. J. Egglehart, Jansen, Neb.	60.00
17. H. L. Voigt, Davenport, Neb.	62.50
18. O. C. Cowell, Hebron, Neb.	67.50
19. J. H. Knape, Gilead, Neb.	62.50
20. M. Mills, DeWitt, Neb.	52.50
21. Wm. Butt, Western, Neb.	61.00
22. C. C. Ingram, Bloomington, Neb.	62.50
23. F. D. Church, Chester, Neb.	47.50
24. Henry Wissel, Roca, Neb.	65.00
25. W. M. McCurdy	72.50
26. C. F. White, Friend, Neb.	67.50
28. Edward Spencer, Hickman, Neb.	67.50
29. Bert Bowman, Algona, Iowa	65.00
31. F. D. Church	47.50
32. Ed W. Cooper, Oberlin, Kan.	50.00
34. A. Steinkamp, Manley, Neb.	77.50
35. Pitz & Adams, Plattsmouth, Neb.	70.00
39. E. T. Ketchum, Shickley, Neb.	45.00
44. U. G. Higgins	70.00
45. F. C. Swiercinsky, Belleville, Kan.	52.50
46. R. Bevington, Gilead, Neb.	40.00
47. Jas. Arkel, Junction City, Kan.	50.00
49. Pitz & Adams	62.50
51. H. F. Knutzen, Bruning, Neb.	47.50
52. H. F. Knutzen	55.00
54. J. Schroll, Tobias, Neb.	52.50
FALL BOARS.	
56. W. R. Webb, Bendena, Kan.	77.50
57. A. R. Reystead, Mankato, Kan.	51.00

The Kuhl Poland Sale.

A good crowd remained over from the Lonergan sale February 13th and, with some new buyers, Herman Kuhl, Florence, Neb., was enabled to make a sale of forty-three Poland Chinas at an average of $53.90. The top was the well-known herd boar, Big Tom, and he was secured by Paul Waggoner at $147.50. The price of Big Tom was no measure of his value, but it was one of those occasions when breeders overlook the opportunity to buy a good boar when they have a chance to buy him right. Col. Hrave Duncan cried the sale. Below we list those selling for $40 and above:

1. Paul Waggoner, Pierce, Neb.	$ 72.50
2. Harry Dodds, Florence, Neb.	57.50
3. I. S. Johnson, Stanton, Neb.	52.50
4. Peter Kaer, Florence, Neb.	55.00
5. J. B. Strickett, Kennard, Neb.	75.00
6. O. C. Cowell	65.00
7. Paul Waggoner	75.00
8. W. H. West, Shubert, Neb.	60.00
9. Joe Nausel, Council Bluffs, Ia.	50.00
10. C. H. Porter, Eagle Grove, Ia.	62.50
11. C. L. Mayabb, Plattsmouth, Neb.	42.50
12. C. J. Christensen, Genoa, Neb.	45.00
13. W. V. Hoppe, Stella, Neb.	70.00
14. W. V. Hoppe	70.00
15. D. Bolte, Waco, Neb.	50.00
16. Steve Gleeson, Oakland, Neb.	47.50
17. P. L. Ugge, Kennard, Neb.	47.50
18. R. F. Rogginbach, Wisner, Neb.	55.00
19. C. H. Porter	55.00
21. R. J. Peckham, Pawnee City, Neb.	50.00
22. O. E. Applegate, Oakland, Ia.	42.50
23. Steve Gleeson	47.50
24. H. S. Giltner, Oakland, Iowa	57.50
25. H. H. Jacob, Kennard, Neb.	55.00
26. C. J. Landholm, Wausa, Neb.	52.50
28. Steve Gleeson	47.50
29. Steve Gleeson	50.00
30. W. Shipley, Florence, Neb.	45.00
32. Joe Nausel	40.00
34. Joe Nausel	42.50
35. Joe Nausel	42.50
36. Joe Nausel	40.00
37. Joe Nausel	42.50
38. Frank Patton, Surprise, Neb.	70.00
39. Joe Nausel	42.50
40. C. J. Christensen	47.50
41. Tom Patrick, Herman, Neb.	47.50
42. H. L. Faulkner, Jamesport, Mo.	42.50
Big Tom 56664; Paul Waggoner	147.50

Tillingharst's Poland China Dispersion.

The dispersal sale of Sam Tillinghast's herd of Poland Chinas at Peterson, Iowa, encountered the worst weather of the year. The day was bitterly cold and the tent warmed with considerable difficulty. The crowd, as would be naturally expected on such a day, was not at all large, and as a result the hogs that were deserving of great deal better prices failed to make the average they would undoubtedly have made on a good day. Mr. Tillinghast has always kept a good strain of this type of hog about him and his stock has been appreciated by all who bought of him and it is too bad that he could not have been accorded a better farewell on his retirement from the business. The list of principal sales follows:

1. J. M. Peery, Alvord, Iowa	$77.00
2. E. Gritters, Hull, Iowa	67.00
3. J. H. E. Wessels, Cromwell, Ia.	97.00
4. E. S. Barker, Doon, Iowa	70.00
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SUMMARY.

38 head ——$1,801; aver——$47.39

FREE BOOK ON

ALFALFA

How you can grow it on your land
How to get "catch" first planting
How to select and prepare the soil
How to get more than average crops

These and hundreds of other questions that you want answered are clearly and distinctly covered in our new book just issued entitled "Alfalfa—Wonder Crop". This remarkable book contains a priceless fund of information about alfalfa growing, secured from many sources; United States Government, State Experiment Stations, the best posted authorities and successful growers. In simple language, easy to understand, it tells just the things that you want to know before you start to raise this greatest of all $cash money$ crops. This book will convince you that you have some land on your farm where you can profitably grow alfalfa. This information was secured at a great cost of time, money and research. It tells how to grow alfalfa, how to get results from first planting, how to select the field and prepare the soil. It tells all about fertilization, plowing, liming, preparing the seed, when to plant and how to plant. Tells what to do during the growing period, how to get bigger than average crops, and how to cut and cure. The contents of this book are worth many dollars to the farmer interested in growing alfalfa. This book is ordinarily sold for 25 cents but we will gladly send it without cost or obligation of any kind if you answer at once. Don't put it off—write for free book today.

GALLOWAY BROS.-BOWMAN CO., BOX 104 P WATERLOO, IA.

MOTORS FOR SALE

A PROMINENT automobile manufacturing concern offers for sale, at a bargain, a few slightly used motors. These motors develop horsepower ranging from 34 to 50, and are all of the four cylinder type. They have been slightly used for testing purposes, but have since been overhauled and are at present in first-class running order. They are offered at very attractive figures and should give excellent satisfaction as a means for furnishing power for almost any purpose about the farm. If you are interested in obtaining an excellent power plant cheap for use about your place, we invite your correspondence. Address "R," care this paper.

One of the Large Wheat Fields in the Shallow Water District

Logan county, Colorado. This field yielded 46 bu. per acre. This is the finest farm land in the West and we are selling it at the very lowest prices. One crop pays for the land. Finest soil and water. Close to market. Agents wanted. Write for free circular. Address

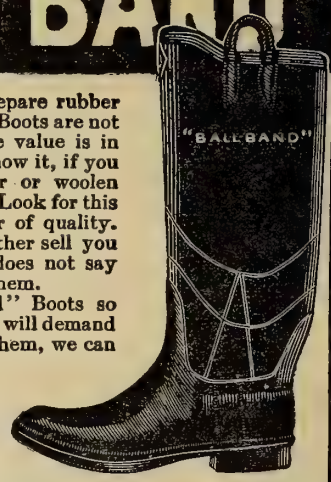
Platte River Valley Land Company

1119-29 City National Bank. OMAHA, NEBRASKA.

JUST as you fertilize your soil for better results, we sacrifice part of our profits to give you "Ball-Band" quality.

We believe in the idea of spending a little extra money to make a better article. In making rubber footwear for you we go about it that way. To give you a better fit we make "Ball-Band" Boots and Arctics over a natural last. We know that a farmer can't do his best work in boots that are not comfortable any more than a poorly shod horse can work right. So we take good care that "Ball-Band" Footwear will *fit*.

"BALL (Red) BAND" TRADE MARK



Also it must wear. The best way to prepare rubber is not the cheapest way and "Ball-Band" Boots are not the cheapest boots you can buy—but the value is in every pair. If you have worn them you know it, if you haven't, ask any man who wears rubber or woolen footwear bearing the Red Ball trade-mark. Look for this Red Ball. It's the sign of rubber footwear of quality.

Ask your dealer what boot he would rather sell you to give all-round satisfaction, and if he does not say "Ball-Band," it's because he doesn't sell them.

Our whole aim is to make "Ball-Band" Boots so good that the next time you want boots you will demand "Ball-Band." If your dealer doesn't sell them, we can tell you of a nearby dealer who does.

Write for Free Illustrated Booklet

Mishawaka Woolen Mfg. Co.
35 Water St. Mishawaka, Ind.
"The House that Pays Millions for Quality"

Rid Your Hogs of WORMS and You'll Have HEALTHY Hogs

E. Myers, President, E. Myers Lye Company

An enormous part of the swine plague known as "cholera" that sweeps over the country killing hogs and causing a loss of millions of dollars every year, is not **cholera** at all. It is stomach, intestinal or lung **worms.** The symptoms of hog worms are easy to detect. When you see a hog slinking around with his nose to the ground, hair sticking up, tail down, coughing, off his feed and losing flesh, don't jump to the conclusion that he's getting "cholera". He has **worms,** and if you don't act quickly your whole herd will have them, too. Feed all your hogs **twice daily** according to directions on every can on a ration mixed with

Merry War Powdered Lye

It destroys hog worms quicker than anything else in the world. And, even though there should be an epidemic of **real** hog cholera in your neighborhood, **your** hogs will be healthy and strong to resist it. MERRY WAR POWDERED LYE is the **proven preventive of hog cholera.**

The Folly of Vaccination

Vaccination may be all right for putting a hog's system in a condition to resist the cholera germ. But no amount of vaccination will cure a single hog of worms, nor will it make him well if he's sick. Vaccination will not keep him on his feed, make him fat, sleek, skin free from scurvy, and condition him so that he will be a prime hog at market time. **That's what** MERRY WAR POWDERED LYE does. Feed it to your hogs from weaning time on and you'll have healthy hogs. Cholera won't alarm you and your hogs will weigh in heavy.

Read This Convincing Evidence

C. F. NEWMAN, Lebo, Kan. "Have best results with my hogs and no sickness since I've used Merry War Powdered Lye while our neighbors have lost heavily."

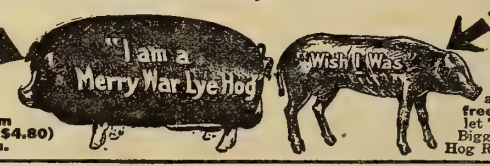
Refuse Substitutes

Don't experiment with ordinary, old-fashioned lye. **It might prove dangerous.** MERRY WAR POWDERED LYE is the specially prepared lye that is **safe** to feed hogs. Experience has **proved** its worth. **Insist** on getting it. **There are no substitutes.**

E. MYERS LYE COMPANY, Dept. 80 ST. LOUIS, MO.

10c A Can—120 Feeds

MERRY WAR POWDERED LYE is for sale at most grocers, druggists and feed dealers. It is convenient to buy in case lots, 4 doz. cans, $4.80. **Order direct from us in case lots (4 doz. cans $4.80) if dealers won't supply you.**



FREE If your dealers can't supply you write us stating their names. We will see that you are supplied and also send you, **free,** a valuable booklet "How To Get The Biggest Profits From Hog Raising."

MAKE THE HORSE GLAD AND EAGER FOR WORK

The way to do it is to clip him before you put him at the spring work. Take off his winter coat that holds the wet sweat and dirt. He'll get more good from his feed, look better, rest better and give you better service. The best and most generally used clipper is the

Stewart Ball Bearing Clipping Machine

It turns easy, clips fast and stays sharp. Gears are all file hard and cut from solid steel bar. They are enclosed, protected and run in oil; little friction, little wear. Has six feet of new style easy running flexible shaft and the celebrated Stewart single tension clipping head, highest grade. **Get one from your dealer** or send $2.00 and we will ship C. O. D. for balance. Money back if not satisfied.

PRICE $7.50

Chicago Flexible Shaft Co.,
734 La Salle Ave. Ill.
Write for Big new catalogue showing complete line of Horse Clipping and Sheep Shearing Machines.

CLIP ALL THE WOOL

YOU LOSE $1.00 ON 6 SHEEP BY THE OLD METHOD

You know the size of your flock—figure how much more money you'll get if you use a

Stewart No. 9 Ball Bearing Shearing Machine

It's the most perfect hand operated shearing machine ever devised. Has ball bearings in every part where friction or wear occurs. Has a ball bearing shearing head of the latest improved Stewart pattern. **Price** complete, including 4 combs and 4 cutters of the celebrated Stewart quality is only... **$11.50**

Get one from your dealer, or send $2.00 and we will ship C. O. D. for balance. Money and transport charges back if not satisfied.

DEATH OF GEORGE ALLEN.

With sorrowing hearts we bring to our readers at this time the news of the death of Mr. George Allen, of Lexington, Neb. This means the removal of one of the pillars from the stockmen's ranks of the United States. For generations the Allen name has been intimately associated with improved live stock interests and for a period of forty years Mr. George Allen has been building for himself a name that will pass on to future generations as one to be revered. The record of his great achievements was started

GEORGE ALLEN.

by the success he attained as an importer and breeder of Shropshire sheep while located in Illinois. Thirty years ago he became interested in Short-horn cattle and his success in building up a herd of that noted breed has been equaled by few of his contemporaries and surpassed by none. In 1904 Mr. Allen moved from Atherton, Ill., to Lexington, Neb., where with the aid of his sons he has enlarged his breeding and farming operations until at the time of his death he owned and operated one of the largest and most successful Short-horn breeding establishments in the corn belt.

GRAVEL ROADS.

To the Editor of The Homestead:

It looks like the bulk of money is larger than the faculty for building. What we want are good roads not for coasting purposes, but for the good of the traveling public. We have had some experience in gravel roads and the best ones are made in this way. We located the center of a well-formed road bed, then four feet each way from center we open out a gravel bed eight feet wide and twelve or fifteen inches deep, depending on the kind of soil. The road bed is filled with coarse gravel mixed well with clay, or earth, and crude oil enough to make it a bed impervious to moisture. This bed is well packed for all heavy freight. The surface bed upon this should be of finer gravel about eight or ten inches deep and from the center each way should be from eight to ten feet making a top bed from sixteen to twenty feet wide with the edges well wrapped up with earth. Then the whole is rolled down to suit the form of a good road bed. The oil bed being underneath the seasons will evaporate the oil and harden the finer gravel sides of the road so as to make a fine driveway for coasting and light traffic.

Flint or limestone is the best. Money is being thrown away by the use of sandstone as a road bed because of the fact that when it is rolled down and crushed into form it is only a short time until the frost has it in such shape that it proves worthless. Never hammer or crush the sand rock. The better form can be made of sandstone by getting the rock in good building material form to be used only on soft, wet land, laying them in mechanically to make the eight-foot road bed and covering with the oil, clay and shell. Always put the oil bed underneath and in that way save all the fine particles to harden the road bed. D. R. Austin.

This Planter Never Misses A Hill—

BARE spots from missing hills cut the corn crop short. Good seed, rich soil and favorable weather *will not prevent this loss.* Don't be blinded to this fact—figure it out yourself. How much have the bare spots cost you, year after year? Eliminate this waste! *Make sure* that every square foot of your corn fields will be *working* for you this season.

Hayes Never-Fail Drop

The HAYES Drop *never fails.* Simple, durable and most efficient. Fewer parts, less breakages and delays. Has no clutch to miss and give trouble. *Never cracks or grinds the seed.* Will drop accurately any size or shape kernel. *No bare spots* in HAYES planted fields. No replanting necessary. Increased yields soon pay for it.

Four Wheels—Bigger Yields

Runners set back between the wheels, regulating depth of planting to the fraction of an inch. Plants every kernel *exactly the same depth.* Corn all comes up at the same time. *Earlier cultivation* and no missing hills from uneven planting.

HAYES Four-Wheels guarantee *surer germination and quicker growth.* Wheels pack the dirt around the corn to hold moisture and leave a *ridge of loose soil* on top. Ridge over the corn prevents washout in hilly fields and gives greater surface for sun's heat.

Covers where all ordinary open wheels fail—even in wet and sticky ground. Guaranteed not to clog. Short coupled, light draft and turns in shortest space.

160,000 Users Know

This planter is *guaranteed. It must* be all we claim and all you expect. Ask your neighbor or dealer or let us prove this planter prevents cornfield waste and increases corn yields. Don't make a mistake. Buy the planter that *guarantees* results.

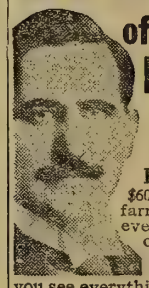
Can be furnished with perfect working Fertilizer and Cow Pea Attachments; also Stub Runners or Discs if preferred.

Write! Send postal for Free Book "I" of valuable Planting Facts. Write today, then you won't forget.

HAYES PUMP & PLANTER CO. GALVA, ILL.

Hayes Four Wheel Corn Planter

OVER 500 of My Farmer Friends Visited Me Last Week at Waterloo



I entertained them at our $60,000 Agricultural Club built for farmers and their families. I want every farmer who possibly can to come to Waterloo. The moment you step off the car at Galloway Station you are my guest—and you see everything at my expense. Come!

Rare Bargains Here!

Tremendous savings in Engines, Spreaders, Separators, Harrow Carts, Pianos, Sewing Machines, Incubators, Furniture, Rugs, etc. You can have a splendid vacation, free entertainment while here, and go home with money ahead on what Galloway Factory-to-Farm prices save you.

Make the Trip Now!

Treat yourself to this vacation trip while you can spare the time. Bring your wife along. Plenty to see and do here. A beautiful clubhouse filled with every attraction—music, splendid meals, home-like, comfortable sleeping rooms—everything to make you enjoy every minute as my guest—all FREE to you. Make up your mind to

"Come to Waterloo"

I'd like mighty well to show you over my big Model Dairy Farm—a real business plant—stocked with the finest pedigreed animals and fitted up with every convenience and profit maker known to modern business farming.

Wm. Galloway, Pres. Wm. Galloway Co.
1CA Galloway Station, Waterloo, Iowa (207)

Comfortable Fur Coats—For Less Than Cloth!

We will make your beef or horse hides up into robes or coats for you at a price under what you would pay for an ordinary cloth overcoat. They will be

Softer, Lighter, Stronger

than any other fur coats or robes you can secure elsewhere. We are specialists in the art of high-class tanning. Let us send you today our catalog and price list.

DUBUQUE TANNING & ROBE CO.,
45 S. Main St., DUBUQUE, IOWA.

PROFITABLE CORN CULTURE.

To the Editor of The Homestead:

In attempting to raise corn for profit it is well to look into at least a few fundamental facts concerning the crop. At fifty cents a bushel, the profit to be made raising corn sinks into insignificance. Take the average crop at twenty-six bushels to the acre and give the landlord his half the crop, as is the rule, in the crib. The tenant has thirteen bushels, or $6.50 worth of corn, per acre, for his summer's work.

If the tenant has forty acres, he has $260 worth of corn. At least $100 worth of corn will be required to keep his three horses twelve months. It is taken for granted that the tenant will find enough other employment to make a living throughout the year when not busily engaged attending to the crop.

By allowing the customary rate, the tenant would be out the following in raising the crop:

Seed corn per acre	$ .15
Two diskings per acre	1.00
Listing and planting	.75
Curling twice	1.00
Cultivating three times	1.80
Husking	.78
Total	$5.48

The tenant has $6.50 worth of corn. It cost him in labor, etc., $5.48, leaving him $1.02 clear profit, per acre, or $40.80 on the entire field, besides allowing him pay at the customary rates for all work done on the crop. Nothing is allowed for re-planting the crop as is often the case. Two or three plantings are necessary to secure a stand.

The living of the tenant and family, horses and tools, have not been counted, which of course, will serve to discourage still more if mentioned. Corn sometimes brings over fifty cents a bushel, but it is the exception rather than the rule.

By carefully figuring the costs, it is easily seen that no tenant can afford to raise corn on land that will produce less than forty bushels per acre. This will keep the tenant about even financially, and if he is careful and makes a profit feeding his crops to hogs, cattle, etc., he can gradually get ahead financially. But there is little land that will produce forty bushels to the acre, regularly. Then such land should not be planted to corn. Small grain and grasses should be put in the place of corn. This would cause a tremendous falling off of corn production with a large acreage of grasses and other crops. Cattle and sheep could be raised in large numbers, and the price of meet materially reduced. The country would be better off. Stock need less care on grass than the raising of a crop requires, and hence the meat could be sold for less money than is now required. At any rate, the farmer cannot afford to raise one-half of a crop of corn when the same effort will produce a large yield.

The corn yield can be largely increased by planting standard varieties of heavy yield corn. Poor varieties and poor soil go hand in hand and result in a poor man who uses them. After over a quarter of a century's experience raising corn, I will give you some of the prime essentials of successful corn growing.

The first consideration is the soil. This should be rich enough to produce a good crop under ordinary conditions. Spare no needed effort in preparing the seed bed. This should be thorough.

The second consideration is the seed used. It is not only desirable that the seed be tested, but a variety of pronounced yielding quality should be planted. Old worn-out seed should be discarded and a variety as nearly adapted to the peculiar requirements of the land as is possible to be obtained should be used.

The third consideration is the man and his equipment. He should have good judgment, be energetic and ready to do what is necessary whether the task be small or great.

Most farmers improperly prepare the ground. Plant too early. Use too much poor seed. Do not begin working corn soon enough after the corn is up. Do not work often enough and stop too soon. They plant corn that only three-fourths of which will grow, thus losing one-fourth the prospect of a crop on the start. The average farmer is not insistent enough. He should go at his work expecting to succeed and spurn failures. Do whatever is necessary to succeed. Success always costs highly.

Three corn plowings are better than two. Four better than three, and usually five are better than four. Many crops are raised with only two plowings when the third plowing would have increased the yield ten to fifteen bushels to the acre.

There are many ways of selecting seed. The best way perhaps is to go into the field before frost and gather three times as much as you expect to need of the best ears on the most satisfactory stalks. Place this where it will dry gradually before freezing. After being thoroughly dried freezing will not hurt it. If wet and frozen the germs of the kernels will be killed. Some time in March go over the seed corn again, carefully choosing the best for seed. Look well into the following details: The ear should be as nearly clindrical as possible and standard length, neither too long or too short, too thick or too thin. The rows should be straight, the circumference two-thirds the entire length. The color should be true to the variety. Yellow corn usually has red cobs. White corn white cobs. Any variety is usually a sign of impurity in the seed. The butt and top should be well filled out with uniformly shaped kernels. The kernels should be wedge shaped, wider at the crown than at the tips and one-half as thick and wide. The germ should be large and well developed. The kernels should be of uniform shape and size over the entire ear.

Lay the chosen ears in a row. Take one kernel from each end and one from the center. Turn over and do the same on the other side. Place at the end of ear from which taken. Do likewise with each ear, being careful not to mix the kernels. Place the kernels in a sprouting box, marking so that you know where each six kernels belong. Leave the ears as they are. After the corn is sprouted, compare your test with their respective ear, and if the germination is not satisfactory discard that ear. When through shell the corn and run through a corn grader. This will place the best kernels of uniform size and shape by themselves. The grader will separate the corn into several grades. The first and second grades only, should be used for planting. By planting the first grade only the kernels are of the same size and a uniform stand can be easily secured. The second grade should be kept for future use in case replanting is necessary.

Carefully test the planter or drill before taking to the field, so as to know that it drops properly. As soon as the corn is up, begin to work it, being careful not to cover any. Work as often as possible. All deep cultivating should be done while the corn is small so as to not injure the rootlets.

The last cultivation should not ridge the row much, and must be shallow so as to not injure the roots. Let your last cultivation be when the corn begins to break, as it passes under the arch of the cultivator. No crop shows the benefits of good cultivation or pays better on the ordinary farm, than corn. Some farmers claim that a good man and team produce $20 to $25 worth of corn daily by the last cultivating. So do not lay the corn by, too soon, but keep at it until it is necessary to quit. Subscriber.

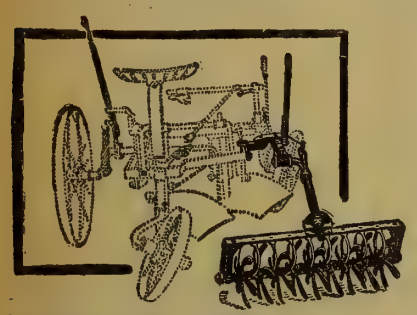
Preparing an excellent seed bed—all accomplished in one operation and by one man and a Hackney tractor.

MAKING PLANS FOR THE FUTURE.

To the Editor of The Homestead:

It is well, and indeed helpful, for every farmer to study the season with reference to his work. It means the difference between driving and being driven. Business men have learned the necessity of buying stock and planning their business with reference to the season. If farmers are to systematize their work and put their farms on a business basis, right now is the time to lay plans for the season's work. In a general way every farmer understands that he must plant in the spring, cultivate in the summer and harvest in the fall, but there are more definite distinctions that should be considered in his calculations. There is always an economical time for doing certain things on the farm, and there are times when the doing of certain kinds of work conflicts with other work.

Get a memorandum book right away. If the country store does not keep a good, large one—two or three pages for each week in the year—send to the city. "Nonsense, not practical," you say; "we are not prophets." Quite true, but the seasons are before you. You have formed a general idea of the big things of the year. You know the things



NATIONAL ROTARY HARROWS FOR PLOWS

It will surprise you to know the low price that we are quoting the first ten farmers in each township on our famous Rotary Harrows for Plows, to quickly introduce them. We refund the purchase price and pay freight charges if not satisfactory. 75,000 in use and sales doubling each season. Pays for itself on first five acres plowed. Guaranteed to increase yield twenty per cent. The new way of harrowing as you plow proved to the farmers last season that it saves time, labo and money in preparing the seed bed. Write us today for special introductory prices and circulars.

NATIONAL HARROW CO. LEROY, ILLINOIS

THE WEBBER ANGLE SIEVE

Grain Separator and Fanning Mill

Something new — is a little wonder, produces seed grain, separates grain, cleans it and grades it, besides doing work of ordinary fanning mill. Makes perfect separation once through. Write for prices to

HIRSCH BROTHERS
272 Reed St., Milwaukee, Wis.

MEN WANTED!

SOUND men 21 to 40 years old wanted at once for electric railway motormen and conductors in every state. Wages $60 to $100 a month. Experience unnecessary. Permanent employment, no strike. Write immediately for application blank. Address Manager Employment Department, Room 950, Dwight Building, Kansas City, Missouri.

AGENTS Our absolutely square $30.00 to $67.50 weekly salary and 30% commission proposition assures steady workers unfailing success.

Wm. R. Petticrew, Mgr., Box 360 EE, Waterloo, Ia.

CIVIL SERVICE examinations open the way to good government positions. I can coach you by mail at small cost. Full particulars free to any American citizen of eighteen or over. Write today for Booklet O-1143. Earl Hopkins, Washington, D. C.

DRAINAGE WITHOUT DITCHES

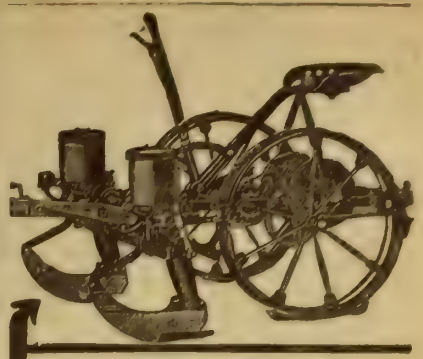
YOU can drain your land without digging a ditch. Write for circular at once.
VERTICAL DRAINAGE CO., Clinton, Iowa.

AGENTS WANTED—Farmers' Directory. Account Book. Exclusive home territory. Quick seller. Big inducements. Particulars free. Write Naylor 945, Ft. Wayne, Indiana.

Columbian Stock Powder

GUARANTEED to be all right and in good condition; am closing out 100-lb. keg, $5; 250-lb. barrel $11. Booklet free. E. E. Arnold, Sandwich, Ill.

PATENTS that PAY $561,530 made by clients. Patent Book—"What & How to Invent—Proof of Fortunes in Patents" FREE. 112-p. Guide Free! E. E. VROOMAN, Patent Atty., 812 F St., Washington, D. C.



Mix Brains With Your Planting!

Use your head and get two to ten bushels more per acre and without any more expense or work. You can now do it because of an invention by which you can change the number of seed to the hill instantly. You don't have to stop. You don't have to get out of your seat. You simply pull a lever and it's done.

When you come to the richer parts of your field you shoot an extra kernel or two into each hill. And when you come to thin soil you plant less grains per hill. Thus you waste no seed and you make the richest soil raise the most corn. Besides, the poorer soil makes more and better ears if you don't overload it. This is scientific and right.

And it's just as easy and fast as ordinary planting. No extra work—just use your head.

Rock Island No. 1 Corn Planter

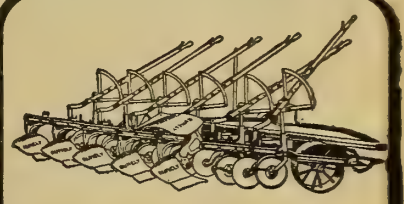
This planter is also instantly changeable from edge to flat drop. Both plates furnished free. It plants straight, even rows, whether horses walk fast or slow. Positive clutch that's absolutely trouble-proof and that outwears four ordinary clutches. Special flexible connection to front frame makes uniform planting certain, no matter how hilly your land. Adjustable width. Adjustable seat. Discs or runners. 30 or 36-inch concave, flat or open wheels.

It's the masterpiece machine of corn-planter construction. Has become the sensation of the Corn Belt in three seasons. Over 10,000 machines now in use and all doing wonderful work! More than pays for itself in one season.

WRITE! Drop us a postal at once and you will receive our latest Corn Planter Book and a copy of Prof. Holden's famous book on Corn Growing—ALL FREE! We will tell you where you can see a Rock Island No. 1.

Simply write this on your postal: "Am interested in the Rock Island No. 1 Planter." Then add your name and address and send the card to

Rock Island Plow Co.
183A Second Ave., Rock Island, Ill.



The "LightPull" Plow

Strength, compactness, flexibility, light draft, low cost of up-keep, easy operation, easy adjustment, large capacity and ability to do good work at any depth are all combined in the

Rumely Engine Gang Plow

In 1910, at the Winnipeg Motor Competition, an 8-bottom plow of this type showed the lightest draft of any engine gang plow. In 1911 at Winnipeg the 6-bottom plow averaged 633.3 pounds draft for a 14-inch furrow against an average of 726 pounds for all competing makes. Two Silver Medals in 1912.

We have sizes for all tractors—bottoms and coulters for all soils.

If you want the best power for your plow choose the OilPull, GasPull or any of the Rumely "Pull" family.

Our Data-book on plowing is worth having—send for it—ask for No. 338. Get the name of our nearest dealer, too.

RUMELY PRODUCTS CO.
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Power-Farming Machinery
LINCOLN DES MOINES
Home Office: La Porte, Ind.

that must be done as well as the things you contemplate doing. If your brood mares are to have colts you know that your team work ought to be planned so that you can spare their services at that particular time. You should know when the calves, pigs and lambs are to arrive so that if you are called away suddenly you can leave them in charge of a competent man, or if you are at home you can make plans for their reception.

If you are going to build or repair your buildings in the spring you can plan to haul your material before the roads are soft and before the farm work demands the services of the men and teams. As a general thing the springtime, immediately after sowing and planting is the ideal time to build or repair farm buildings. Many farmers who have delayed this work until late in the fall will agree with this advice. At this season the days are long and pleasant, the mechanics are not crowded with work and if one is handy with tools himself he can plan the building so that much of the inside work can be done at times when the weather is unfavorable for outside work. If the building is to have a foundation, as is the case with a house or dairy barn, there is no fear about the cold weather damaging the mortar. One of the most serious mistakes the writer ever made in building was that of beginning to remodel a dairy barn late in the month of October. The weather turned cold unusually early and for almost two weeks it was necessary to work to a great disadvantage with the cows in the stable and the workmen pinched up with the cold. On account of being rushed by the cold weather and the lack of time a large part of the pipe fitting and plumbing had to be done over again the next year.

Years ago farmers never thought of getting the manure on the land during the winter, but we know now that winter is the time to get out the manure which is made during that season. As soon as the spring's work begins there are other things that demand attention. A manure spreader can be furnished with lugs so that they can be drawn upon the snow and have enough grip to enable them to unload in the proper manner. Of course, there may be days when the snow and weather defeat our plans, but such brief spells need not defeat a man who has a purpose in his work. The manure spreader will do more efficient work with manure fresh from the stable than it will with that from a heap that is frozen so that it comes up in huge chunks that cannot be broken up and scattered properly.

Plans should be made to grow young stock during the winter when they can have better care than during the rush of work in the spring and summer months. Young colts and calves that are properly fed and cared for during the winter months are ready to go out in the pasture as soon as the grass becomes somewhat hardened along in June. When we come to the smaller kinds of stock, such as lambs, pigs and chickens, plans must be made to have them come as early as consistent with the seasons and our conveniences for handling them when they arrive.

As you consult your plans for the coming season's work you will find yourself continually making notes in your "week by week" book, and what is more to the point, studying it ahead. A farm run on schedule time is a joy, and it can be done more easily than you think.

One of the most valuable features of this "week by week" book is that the slack times as well as the busy times are pointed out ahead. Many bits of work that can be done a few days or a few weeks ahead of time can be done during the slack season. The work for the whole year is done easier, with less anxiety, less rush, less expense and more profit if these odd jobs are done a few days or even a few months before they demand immediate attention, instead of a few days or more behind time as is so commonly the case when the farm is managed on a short-sighted schedule. Even the most industrious of men will fall far short of their possible accomplishments unless the entire farm is managed on a systematic basis. This system must be planned to furnish steady profitable work for the men and equipment every week day during the year. It is the man with the faculty of keeping everything going along steadily and smoothly that gets his work completed on schedule time. It is not spasmodic effort to do two day's work in one and drive the men and teams beyond their strength, but the big average that counts most at the end of the year. The odd minutes, hours and days saved now and again tell mightily in summing up the results of the year's work.

Another advantage of making plans for the year's business is the fact that it gives up an opportunity to figure the cost of labor, seeds, fertilizers, machinery and various other items and plan our year's business according to our finances. It is almost as important to know what next year's expenses are likely to be as it is to know what the past year's income amounted to. By carefully going over our plans and estimating the cost of the things needed for the coming season's activities it is possible to plan our business so that every dollar invested will add to the permanent value of the farm or increase the efficiency of the organization.

W. Milton Kelly.

Echoes From a Kansas Farm

BY HENRY HATCH

The more sales there are, it seems, the higher stuff sells. This does not mean just a few certain things, but all things sold. We have seen stuff sold lately, like machinery, harness and small tools, that have seen two or three years use, sell for the price of new goods of the same quality. Surely such purchasing is not good for the buyers.

We are in need of more pasture on this farm than we have, hence our object in sowing timothy and clover on fifteen acres of land that was in corn last year. Were we after hay alone we would not care so much about the timothy, although it helps.

There is a lot of land in this corner of the corn belt that needs something besides the overdose of corn growing it has been getting for the last twenty or thirty years. Rented farms, especially, are producing less each year because the fertility is being drained right out of the soil by continual corn growing and a system of farming that puts nothing back into the soil to replace what is taken out.

The cattle feeders here are glad to see the advance of thirty-five to fifty cents that has taken place in the price of fat steers, the past week. They hope prices will keep right on advancing, for some now realize they bought their feeders rather high, there being, in some cases, still much less than a dollar spread between what they paid for the feeders and what the finished product would now sell for. One cannot produce gain in weight and sell it at the same price per pound paid for the feeders.

The women folks are now talking over the phone about trimming lamps, thermometers, turning the eggs and airing them. The reader can quickly guess what is on the mind of these madams. Dates when the various incubators of the neighborhood are to "come off" are carefuly remembered, and the next day after everyone will be asking "what luck."

It is still too early to burn to kill chinch bugs. Investigation shows that most of the bugs are beneath the surface, down in the soil, and fire now would pass over them without harm, and more than likely the freezes we would have from this on would be insufficient to kill them, even with the trash protection burned. It is better to wait until the weather thaws the bugs out and brings them out in the grass; fire then, before they take wing, will leave none behind.

Every now and then someone wants a law passed prohibiting the use of the common narrow-tired wagon on public highways. There is no denying the fact that narrow tires do make ruts when the grade is soft, but at such a time wide tires would add another team to the draft for the load, and they too would make ruts—not quite so deep, perhaps, but a great deal wider. We have used wide tires on feed wagons for a number of years, but do not get out on the roads with them unless all is smooth and the roadway is hard. When the soil will "pick up," it is surprising how much of it will stick to broad tires.

THE HIGH COST OF LIVING.

An attack on the high cost of living was begun in the Wisconsin house when speaker Hull, aiming to bring together farmer and consumer, introduced a bill providing that the state industrial commission shall offer to publish names of individuals who desire to purchase produce direct from farmers, creameries, cheese factories and country dealers.

Persons desiring to deal direct with the farmers or country dealers for farm produce will have to file applications with the commission.

Both farmer and consumer would benefit under the proposed law, according to Mr. Hull, who presented statistics to show that the farmer got only 46 per cent of the price for his produce, railroads and retailer getting the other 54 per cent.

"By means of the parcel post, farmers and country dealers will be able to sell their produce direct to the consumer at a much higher price and the consumer will purchase it at a much lower price than under present conditions in large cities," said Speaker Hull.

Any dehorning of cattle should be done early, as it is an unpleasant task at best, and if delayed till a warm day or two comes on immediately after the dehorning, serious results are apt to follow.

Galloway

Invites You to Enjoy Yourself at His Expense

Right now's the time, boys, to take that little trip to Waterloo. You've got the time, and it will pay you big to see with your own eyes the wonderful money-saving bargains to be snapped up right in the big Galloway factories. Bill says

"Come to Waterloo"

Be my guest at my expense. Whether you stay a day or a week, I'll entertain you at our $60,000 Agricultural Club, planned and built for the comfort and pleasure of my farmer friends. Over 500 here last week had a ripping good time. Some bought; some didn't. It doesn't matter. You're under no obligations whatever to buy.

See My Big Factories!

A great sight! Worth traveling many miles to see. I will show you through an enormous chain of factories—largest in the world selling direct to farmers—hundreds of men turning out a flood of Engines, Spreaders and Cream Separators where only a few years ago was a cornfield on the edge of Waterloo. Don't miss this!

I Will Expect You Sure!

Now, don't disappoint me. I'll look for you and will make your visit a big surprise. You'll go back and tell your friends: "I never had such a fine vacation." If you can't come just now, write me why.

WILLIAM GALLOWAY, Pres.

WILLIAM GALLOWAY COMPANY

1015 Galloway Station, Waterloo, Iowa (247)

Flying Dutchman Variable Drop Corn Planter

If you pay more than $35.00, and freight, for a Corn Planter you are actually throwing away your money.

You can save $7.00 to $10.00 and still get the World's Best Planter.

The Flying Dutchman Planter which all Flying Dutchman Dealers are selling for $35.00 F. O. B. our Factory or Warehouses at

BLOOMINGTON, ILL.	INDIANAPOLIS, IND.	MADISON, WIS.
KANSAS CITY, MO.	COLUMBUS, OHIO	TOLEDO, OHIO
DES MOINES, IOWA	SIOUX FALLS, S. D.	ST. LOUIS, MO.
MINNEAPOLIS, MINN.		OMAHA, NEB.

is the very latest and best Corn Planter we have ever built.

From the ground up it is the best Planter that money and brains can produce. It is backed by the Flying Dutchman reputation, which has for nearly 50 years stood for the highest quality in farm implements.

ABSOLUTELY ACCURATE. DROPS 2, 3 or 4 KERNELS. EDGE OR FLAT DROP.

The simple Variable Drop device can be instantly changed while the Planter is in motion to 2, 3 or 4 kernels, to meet any soil requirements.

The drop is as positive and accurate as the tick of your watch. Drive fast or slow and the hills are always in check—absolutely no variation nor scattering.

It can be instantly changed to a Drill—simply move a lever.

Write today for Free Folder showing illustration of Planter in colors. Ask your Dealer about the Flying Dutchman Planter.

Moline Plow Co.

Dept 11 MOLINE, ILL.

Lock Stitch Sewing Awl FOR YOU

This Awl

is a wonderful tool and a household necessity. Diamond ground needles and complete supplies including thread, come with every outfit. Can be carried in pocket. This awl will save you many a trip to the shoemaker and harness shop. Given free with a two-year subscription to People's Popular Monthly Great Home Magazine, for only 60 cents.

PEOPLE'S POPULAR MONTHLY

Dept. 2, Des Moines, Iowa

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Mar. 12, Isenbarger Bros., Battle Creek, Iowa.
Mar. 25, White Bros., Perry, Iowa.
Apr. 8, Dispersion sale, Walter Roberts Estate, Atlantic, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 1, Association spring bull sale, Kansas City, Mo.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 1, D. R. Hanna, Chicago, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 10, A. C. Shallenberger, Alma, Neb.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
May 27, H. H. Kuper, Humboldt, Neb.
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Mar. 20, A. A. Hager, Avoca, Iowa.
Mar. 21, R. P. Clark, Brayton, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Short-horn, Hereford and Angus Cattle.

Mar. 11-12-13, Sidney B. Smith, Mgr., South Omaha.

Holstein-Friesian Cattle.

Mar. 18-19, R. B. Young, Buffalo Center, Iowa; McKay Bros., Buckingham, Iowa, (sale at Waterloo, Iowa).
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Mar. 12, L. H. Luckhardt, Tarkio, Mo.
Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Jacks and Jennets.

Mar. 10, G. C. Roan, La Plata, Mo.

Percherons, Belgians and Shires.

Mar. 20-21, North & Robinson Co., Grand Island, Neb.

Percherons, Shires and High Grades.

Mar. 8, Breeders' second annual sale, Malvern Iowa, Fred Durbin, Mgr.

Poland China Swine.

Mar. 5, A. L. Meith, Cairo, Neb.
Mar. 11, M. F. O'Hern, Barnum, Iowa.

Hampshire Swine.

Mar. 12, D. H. DeKalb, Dekalb, Iowa.

Duroc Jersey Swine.

Mar. 24, Smith & Rodgers, Springfield, O.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address Inez Hotel, 9th & Troost Sts., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

The strawberry plants advertised elsewhere in this issue by Geo. W. Bridgman Nursery Co., Benton Harbor, Mich., have forty years of practical experience back of them. Write for circular and prices, mentioning this paper.

The Baier automatic chick feeder and protector, advertised elsewhere in this paper, is a time and labor-saving device, works automatically and sells for $4. Write Baier Bros. Mfg. Co., Cissna Park, Ill., mentioning The Homestead.

Evergreens are advertised elsewhere in this issue by the Harvard Nursery, Harvard, Ill., at $1 each for Norway spruce, arbor vitae, etc., prepaid by mail. Larger trees are supplied at correspondingly attractive prices. Sixteen different kinds are handled by this nursery and price list and full particulars will be furnished upon application.

The American Guernsey Cattle Club, the first breed organization to establish an Advanced Registry system, upon the basis of a year's production of butter fat has now come forward with a very complete "List of Advanced Register Sires and Great Producing Dams." The list is published in the Guernsey Breeders' Journal for February, and we believe it is the first one attempted by any cattle breeders' organization. To the breeder or purchaser it will prove of incalculable value by giving not only the number of progeny, but the record in pounds of milk and butter fat each cow has produced; every bull that has two or more progeny, and each cow that has one, in the Advanced Register, being listed. The bulls and cows with their progeny are alphabetically arranged in separate lists. A condensed history from birth to date is concisely given. The list is corrected to November 1, 1912, but we understand it is the purpose of the club to keep it up to date for the benefit of all breeders. Copies can be obtained by writing to the office at Peterboro, N. H., and should be in the hands of every breeder.

The inquiries for Wisconsin homemaking opportunities are four times as numerous now as they were a year ago, according to A. D. Campbell, general manager of the Wisconsin Advancement Association. These inquirers are furnished printed matter containing census figures upon the crop yields of the various counties of the state.

W. W. Vaughn, breeder of Chester White hogs, Marion, Iowa, writes: "We have had a brisk trade in Chester White bred sows at Wildwood. We still have a few good yearling sows, strong boned, roomy and well quartered, weighing around 375 pounds, and thirty gilts with length, quality, size and finish, weighing from 200 to 300 pounds. They are bred to high-class herd boars to farrow in March or April. We are making very reasonable prices compared with present pork value." See advertisement elsewhere in this issue.

James Pedley, Britt, Iowa, has for sale, as advertised elsewhere in this issue of The Homestead, a pair of strictly first-class Clydesdale stallions of the best individuality and breeding. His aged stallion, Forest King, is the sire of the younger horse and the older one is a full brother to this splendid show horse. The prices that he is putting on both the horses are ones that should move them at once, especially if the men who may write him about them could see the animals. The older horse is a grandson of the famous Baron's Pride and has a lot of substance, is a good mover and a successful sire of the highest grade of colts. The younger horse is a yearling and by Forest King, and out of the mare he is will make a bigger and, we feel, as good a horse as his sire. His dam is being offered for sale at this time also and she is one of the good things that are being put up for sale this season. She is coming six years old, has a flat bone, good foot, is more drafty than the average of her breed and is bred along the best that the breed can show. Write to Mr. Pedley at once for his descriptions of the horses and plan if you can to get out to his place to see them for yourself. Address James Pedley, Britt, Iowa. See advertisement elsewhere in this issue.

Justice's Imported Stallions.

J. R. Justice, Galesburg, Ill., has some extra good young imported Percheron and Belgian stallions, two, three and four years old, and every one over a ton in weight, that he is anxious to move. They are the right kind and will be priced as low as is consistent with good quality. If interested in a good horse get in touch with Mr. Justice. He can be addressed at the Union Hotel, Galesburg, Ill., as per his advertisement elsewhere in this paper.

The Roberts Dispersion Angus Sale.

On April 8th, at Atlantic, Iowa, will occur the dispersion sale of the Walter Roberts Angus herd and it promises to be one of the leading events of the season. There will be sixty head in the sale, among which will be twenty-four head of Blackbirds, twelve Trojan Ericas and a lot of Prides and Queen Mothers. The old herd bull, Deceiver, will also be sold and a choice lot of young bulls. Twenty to twenty-five cows will have calves at foot. The sale will be held at the fair grounds at Atlantic, where it will be handy for everybody to get to and from the sale. Write the Walter Roberts Estate at once for copy of their catalog and kindly mention The Homestead.

The Usefulness of the Portable Engine.

It has been our experience that farmers never regret the purchase of a good portable engine. There are so many places about the modern farm where power is needed that the farmer who realizes the merits of such a machine will never be contented without one. One of the best portable gasoline engines on the market is the Lauson Frost King, advertised on the first inside cover of this issue. It will be well for our readers who are thinking of buying a gasoline engine to look up this advertisement. The Lauson engine is sold under a positive guarantee. If it does not suit our readers they may return it and receive their money back. The engine is made in various sizes from one to 160 horsepower and in all types. Prompt deliveries can be made. Address all correspondence to the John Lauson Mfg. Co., 202 N. W. St., New Holstein, Wis.

Wright's Herefords.

W. T. Wright, Mt. Pleasant, Iowa, has a large herd of Hereford cattle and at the present time is offering twelve bulls one year old and over and cows with calves at foot or safe in calf and heifers of any age. The bulls are sired by the noted show and breeding bull, Pre-emptor, an intensely bred Anxiety 4th bull that has sired so many good ones for Mr. Wright. The others are by Pre-eminence, one of the very best sons of Pre-emptor. Mr. Wright has some herd bull propositions as well as bulls for steer-breeding purposes. Mr. Wright has breeding matrons in the herd sired by such noted bulls as Hesiod 2d, Wilton Alamo 6th, Imp. Fine Lad, Shadeland Dean 22d, Peerless Perfection 19th, Advance by Disturber, Lawton by Larrs, Nero by Eureka, Beau Peerless 4th and other noted bulls. Mr. Wright is one of the strongest Hereford enthusiasts in the country and is one of the men who has stayed by the breed during the long depression in Hereford values. He has raised most of the cattle he is offering and for this reason can afford to price them worth the money. In this herd our readers will find the very best of blood lines combined with strong individuality. The cattle have been grown under conditions found on the ordinary farm. They are not carrying any excess flesh, but are in just nice breeding condition and the man who buys any of these cattle and will give them anything like decent care will be more than pleased with his purchase as time passes. If interested in a bunch of females or a good herd bull see Mr. Wright's advertisement elsewhere in this issue and write him for prices, mentioning The Homestead.

Strawberries.

Frank W. Dixon, Holton, Kan., advertises strawberry plants in this issue and wants to send his strawberry catalog to every reader of this paper who loves strawberries. Mr. Dixon has been specializing in strawberries many years, he has met with big success and numbers his regular customers all over the United States. He solicits orders from those who will grow only enough for home use as well as from large commercial growers. No order is too small or too large for the Dixon strawberry farm. Mr. Dixon also grows all other kinds of small fruit plants.

Petty Bros.' Pure-Bred Seed Corn.

Petty Bros., Liberty, Mo., breeders and growers of pure-bred seed corn, have this year the greatest line of seed corn they have ever raised. They are seed corn breeders who sell only the corn raised on their own farm. When this is sold they have no more to sell. Last year they returned over $1,000 sent in on late orders, as all their corn had been sold. They produce three varieties of yellow corn and two of white. Their location is such that their corn is adapted to any location, north or south. This year they will ship ear corn in bags, thus saving the expense of crating to the buyer, as they price ear corn at same price as shelled. Note their advertisement elsewhere in this issue and address accordingly.

Galbraith & Son's Stallions.

Alex. Galbraith & Son, De Kalb, Ill., write: "We have recently added to our stock some Clydesdales, Shires, Suffolks, Percherons and Hackneys, all of the very best quality and several of them prominent prize winners. We are offering these horses as well as our regular stock at very attractive prices and on easy terms. In buying a stallion of any breed the most important things for a buyer to keep in view are to get a horse that is sound, well bred and well suited for the purpose, a horse whose cost price is not out of proportion to his real merit and value, and also to get a guaranty that will prove a real protection in case the stallion should not 'make good.' This can best be had from a reputable firm whose business is thoroughly established and whose name and reputation stand for something in the horse world. We invite a close inspection of our present stock, feeling confident that neither an unsound, inferior nor defective horse can be found amongst them." See the advertisement elsewhere in this paper.

Short-horn Bull Sale.

On March 8th, at Malvern, Iowa (sale to be held in the morning), Geo. H. White and J. I. Swain & Son will sell fifteen head of Short-horn bulls and among these are some that are good enough to head herds. One of the bulls they will offer is Sultan Goods, a son of the noted Best of Goods and out of Village Sultana, a daughter of the grand champion, Whitehall Sultan. Here is a well-bred bull and an individual that the breeders will want. They are selling a good Cruickshank Butterfly bull, also sired by Best of Goods, and another splendid bull is Roan Goods, that is out of a daughter of Imp. Fashion's Favorite. There is another good young bull in the sale sired by Best of Goods and out of a Lord Banff 3d cow. There are several other good young bulls in this sale that both farmers and breeders can use. In the afternoon a draft horse sale will take place and they are going to sell these horses in the morning. It therefore behooves those who want bulls to be at Malvern by ten o'clock on the morning of March 8th. Geo. H. White, Emerson, Iowa, can give you further information about these bulls and he will send you a catalog if you ask for it.

Smith & Son's Short-horn Cattle Sale.

An offering of choice cattle, practically all of their own raising and of very desirable blood lines and individuality, is the sort of stuff that will be offered in the sale of Short-horn cattle that will be made by H. Smith & Son, at their farm near Tobias, Neb., Saline county, Neb., on Tuesday, March 18th. The thirty-eight head that will go in the sale include thirty cows and heifers and eight bulls. They are not in high flesh, none of them fat, but they are in the very best sort of working order. Smith & Son have been in the business of breeding pure-bred cattle for a number of years and today their herd will compare very favorably with the very best herds of the country. They have employed the very best kind of bulls that they could get, that money would secure and that good judgment, tempered with many years of experience, could select. The greater part of the offering is sired by the great breeding bull, Gold Dust. This bull has come to be regarded as one of the very greatest Short-horn sires that has ever been used in central Nebraska. He has sired some of the most prized females in many of the good herds of the West and a number of his sons have done service in good herds. To find a bull to mate on the daughters of Gold Dust was not a small task and, in fact, two or three bulls have been used very lightly, but none gave the desired results until they secured Roan Cumberland, a son of Cumberland's Last. Roan Cumberland is a bull that was used some in the C. A. Saunders herd and was parted with very reluctantly by that good breeder. The writer is of the opinion that better property in the Short-horn line than a cow bred to Roan Cumberland will be hard to secure. His calves on this farm are certainly very choice, very uniform as to type and color and of excellent conformation, which makes them very desirable. The writer would like to see a good attendance at the sale. We would also like to see a wide distribution of the catalogs for this event. They are ready to mail and a postal with your address, stating that you saw this notice in The Homestead will bring it to you. Address H. Smith & Son, Tobias, Neb.

Advantages of Steel Wagon Wheels.

Money, labor, time, horses and roads are saved by the use of steel wheels. The narrow-tired, high, wooden wheel farm wagon is the blacksmith and repair man's best friend, while the Empire steel wheels with the staggered spokes are the farmer's best friend. Durability, ease of operation in bad weather and heavy roads, the fact that the Empire wheels fit any wagon, are all strong arguments in their favor. There are over a million in use and they all give satisfaction. Write today to the Empire Manufacturing Company, Quincy, Ill., mentioning this paper and ask them for detailed information, which will be sent free.

Meith's Short-horn and Poland China Sale—Last Call.

One of the last opportunities to secure choice Poland China sows this season in Nebraska will be at the sale of A. L. Meith, Cairo, Neb., which will be held on March 5th. On the same date and at the same place Mr. Meith will sell forty head of carefully bred Short-horn cattle. The cattle are all of desirable ages and while in only moderate condition they are of such blood lines and conformation that they will surely make good for the men who may buy them. The Poland Chinas come of very choice breeding and they are inlike to see a good number of breeders on hand for this sale. We believe that it will pay to be there. Those unable to attend will do well to place buying orders for this stuff. They will probably sell at such a price that they will be good property. J. C. Price will represent The Homestead at this sale and will make the best possible selections for the men who send bids to him. Address all letters in care of A. L. Meith, Cairo, Neb.

The Kansas City Hereford Cattle Sale.

The sale of sixty bulls and forty females to be held at Kansas City, Mo., on March 4th and 5th under the management of R. T. Thornton, 1309 E. 15th St., Kansas City, Mo., is a sale those desiring Hereford cattle should attend. The list of breeders contributing to the sale is assurance of good cattle as well bred as are found. The bulls are of serviceable ages and a number are high-class herd headers. The cows are young and with the exception of a very limited number of things too young to breed are in calf to the bulls at the head of the herds of various contributors. The contributors are Benton Gabbert, Dearborn, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; Funkhouser Estate, Plattsburg, Mo.; J. W. Lenox, Lake City, Mo.; S. J. Gabbert, Dearborn, Mo.; T. W. Carmichael, Odessa, Mo.; James A. Gibson, Odessa, Mo., and R. T. Thornton, Kansas City, Mo. Each of these gentlemen invite you to the sale. They want you to see the kind they produce and if they please you buy such as you want.

Percheron and Shire Sale.

Those of our readers who want to buy a registered Percheron or Shire stallion or some good registered mares of the same breeds will be interested in the sale at Malvern, Iowa, on March 8th. This is the second annual public sale that has been made by the various breeders who live in this vicinity. The breeders who are making this sale own from one to fifteen mares each and they have now got to the point where they can make an annual sale each year. They are selling a grand good lot of young stallions in this sale and also some older stallions that will weigh 2,200 pounds. Besides these, there will be a splendid lot of Percheron and Shire mares and all of these are bred to ton stallions. It will be one of the best opportunities offered this spring to buy registered stallions or mares at your own price. They are also listing one pedigreed Mammoth jack and forty head of high-grade draft mares, geldings, fillies and colts. You cannot afford to miss this sale if you are thinking of buying stallions or mares. Write Fred Durbin, Mgr., Malvern, Iowa, for catalog and kindly mention The Homestead.

March Sale of Poland Chinas.

A March sale of bred sows that is full of good things is the offering of bred Poland Chinas to be sold by M. F. O'Hern, Barnum, Iowa, on his farm southeast of Barnum on Tuesday, March 11th. He has listed about forty head of good brood sows of the larger type and from a strain that has always produced well at this farm. The litters that these sows have farrowed on the farm show them to be a profitable strain to handle and the sows that will go through the ring on the day of the sale are the same kind that have made good money for their owner in the years that he has had the herd on his farm. There are fifteen tried sows, four fall gilts and twenty-one spring gilts in the sale all bred so that any farmer who is short of brood sows for the coming year can handle them to great advantage. The most of them are bred for April farrow and some later, making them come in at just the time when they will be bound to do the best for the man on the average farm who may buy them. The boar to which the majority are bred is a good pig of the larger sort, but smooth and an easy feeder. He is Standard Chief The Great, tracing back to the best of Harvey Johnson's breeding, and the most of the gilts and tried sows in the sale are of the medium type of the breed crossed on John Miller breeding. It will be time well spent to go over there for a day or so, attend this sale and then go to the sale at Clare the next day, for at each of these sales there will be sows that will be bound to suit someone. Send for a catalog now, mentioning The Homestead when you write. Ray L. Gribben or C. C. Carlin will attend the sale for The

Homestead. Address M. F. O'Hern, Barnum, Iowa. See the advertisement elsewhere in this issue.

—Fred Post, Moulton, Iowa, in remitting for advertising already done, reports that he is entirely sold out of White Holland turkeys, but that he has a few choice Barred Plymouth Rock cockerels for sale at a bargain.

—M. V. Leeper, Redfield, Iowa, in furnishing copy for his Barred Plymouth Rock chicken and Bronze turkey advertisement appearing elsewhere in this department, writes: "The young toms I have left are late hatched birds, weighing from nineteen to twenty-three pounds. The old toms are extra fine, well-marked birds, and anyone wanting yearling toms will be pleased with these birds. My breeding flock of turkeys are up to my average of former years, hens in this flock weighing up to twenty-four pounds. For size and markings my Barred Rocks are second to none, pullets weighing up to eight and one-half pounds, hens ten pounds, cockerels up to ten and one-half pounds and cock birds up to fourteen pounds."

Luckhardt's Percheron Dispersion.

On Wednesday, March 12th, L. H. Luckhardt, Tarkio, Mo., will disperse his small but select stud of registered Percheron horses. A dozen mares and fillies, eighteen stallions and four Mammoth jacks are listed. The Percherons are all blacks but a few and these are good grays. The jacks are blacks with good markings. Several of the mature stallions weigh a ton or better and ten of the mares weigh over 1,800 pounds. The jacks are all broke, are the heavy-boned kind and are good breeders. Mr. Luckhardt has bred Percherons for a number of years and is dispersing, as he has moved to town and cannot give his horses the attention they need in order to carry them in the condition necessary in order to get best results. They are a decidedly useful lot and sell in just good breeding condition. The mares have been in harness almost regularly since of working age. Note Mr. Luckhardt's advertisement elsewhere in this issue and send for his catalog, kindly mentioning this paper when doing so.

Dannen and Lowrey's Percheron Sale.

R. C. Dannen, Marshalltown, Iowa, and H. C. Lowrey, Nevada, Iowa, will hold a joint sale of Percheron stallions and mares in Harmon's sale barn, Marshalltown, Iowa, on March 6th. Mr. Lowrey is one of the old-time importers of Percherons and has been actively identified with the Percheron interests for over a quarter of a century. Mr. Dannen has been breeding Percherons for a number of years and has made importations at different times. Both men are recognized as excellent judges of horses and this is the class of men who could be expected to put up an offering of horses with merit. The twelve stallions are all imported with one exception and nearly all the mares are imported and are safe in foal to the service of the best of imported stallions. Many of the stallions and mares in this sale were winners at four state fairs during the year of 1912. Among them is a four-year-old stallion, Jambameau, the first-prize winner at the Minnesota State Fair. See the advertisement of this sale in this paper and write for catalog, mentioning The Homestead.

Short-horn Herd Bull for Sale.

Earl of Linwood 306024, a five-year-old roan Short-horn herd bull, is offered for sale at a reasonable price by F. P. Greenwalt, Mount Auburn, Iowa. Earl of Linwood has for a sire Matchless Robin, a show bull sired by the International prize-winning bull, Imp. Rock Robin, used so successfully in the herd of I. M. Forbes & Son. The dam of Earl of Linwood was Imp. Belle of Ordens by Lochaber, a grandson of Star of the Morning. Earl of Linwood is a low-down, thick, beefy bull with as good a head and horn as one could find. He has been used in this herd for four years and the uniform lot of short-legged, beefy daughters and sons of his to be found in the herd are his best recommendation. The man who needs a herd bull and will visit the herd and look over the get of this bull cannot help but buy him at the price. This bull is in nice breeding condition and weighs a ton. This firm also has a thirteen-months-old red bull sired by Earl of Linwood that they will price worth the money. If you are interested in a good herd bull it will pay you to investigate this fellow. The advertisement appears elsewhere in this paper. When writing kindly mention The Homestead.

Lawler's Sale Postponed.

On account of a severe snowstorm and blizzard the sale that was to have been held by James Lawler, Clare, Iowa, at his farm on February 22d, was postponed until March 12th. On that date there will be a chance to get some great young sows bred to two of the best big-type boars in the state for litters that will come at a time when the farmer can take care of them to the very best advantage. The class of the offering has been referred to in these columns before, but we would like to call attention to the sale again, as there are some sows here that will compare favorably with those in any sale this winter. This sale will follow the sale of M. F. O'Hern at Barnum, Iowa, just a few miles to the south, and the two days' trip will be a profitable one for anyone who may not yet be supplied with all the sow stuff that they will want for the coming year. The boars at the head of Mr. Lawler's herd, Miller's Choice, Chief Price A. and the young boar, Giant's Equal, are as good a lot of sires as almost any breeder in the state can show. The older one, Miller's Choice, is a boar that in only fair flesh weighed 970 pounds, and he is a well-made pig, too. Chief Price A. is as strongly bred in big-type lines as any sire in the country, being sired by old Chief Price 2d and out of a sow by Fesenmeyer's A Wonder, second dam by Wonder 2d. Such good lines of breeding ought to bring good prices and is surely worth an investigation on the part of men who still can use some good sows for next year. Send for the catalog now and mention this paper when you write. Address James Lawler, Clare, Iowa. See advertisement elsewhere in this issue.

Miller's Percheron and Jack and Jennet Sale.

S. J. Miller, Kirksville, Mo., the well-known Percheron importer and breeder of Percherons and Mammoth jacks and jennets, will hold at his barns in Kirksville, Mo., on Thursday, March 6th, a sale that should be attended by those looking for imported or home-bred stallions and mares and Mammoth jacks and jennets. Ten stallions and six mares make up the Percheron offering. Ten jacks and fourteen jennets are listed. It is an offer of high-class breeding stock that sells in just good breeding condition. The stallions are all tried breeders with the exception of four that are one and two year olds. The mares are bred to stud stallions that are sires of exceptionally high-class colts and, as they are choice individuals, they should prove valuable investments. There are among the jacks a number that are of serviceable ages and others are fine prospects to buy and grow out. Several of the jennets have colts at foot and all of breeding are bred to high-class herd jacks. Remember the sale is next Thursday. If you have not received a catalog send for one now and kindly mention this paper when doing so.

The Healy Poland China Sale.

On March 8th, at Manilla, Iowa, J. H. Healy will make a public sale of sixty head of Poland China sows and he is certainly selling a splendid bunch. We have personally looked over the Healy offering and we want to say to Homestead readers that every gilt that Mr. Healy is selling in this sale is a good one. We question whether we ever saw as many gilts in one sale that are as good as the bunch that he will sell in this sale. These gilts are all sired by his great boar, Lingford's Choice, that was the first-prize boar a couple of years ago at the Nebraska State Fair. This boar and two of his litter brothers were all winners at the same fair and they were three of the best boars of their age that were ever shown by one man at that fair. Mr. Healy has a great bunch of brood sows, all of the large type, and these gilts are all out of them. In last week's issue we gave extended mention of the breeding of the Healy herd and we will not repeat it again this week, but we will say that if there is any farmer or breeder who has not as yet bought his sows this winter here will be a sale that they can all attend and get about what they want. The gilts that he will sell in this sale will all average from 375 to 400 pounds by sale day. Make it a point to attend his sale, as it will be one of the greatest gilt offerings of the entire winter season. Bids sent to M. T. White or C. C. Carlin will be cared for on day of sale.

Colosso and Thuirer's Big Orange.

C. L. Thuirer, Fostoria, Iowa, who sells a splendid offering of bred Poland China sows at his farm on Tuesday, March 11th, will be remembered by those who were at the Minnesota State Fair in 1911 as the man who showed the great junior yearling, Colosso. This sale of sow stuff has as one of its strongest features the twenty odd head of sows sired by this boar. Mr. Thuirer was unfortunate in losing Colosso just about a year ago, when he had given promise of making the herd one of the best known in the state. Considerable of the sows being retained in the herd are by him and they are bred to the younger boar, Thuirer's Big Orange, a cross which will be found on much of the sale offering. Thuirer's Big Orange is a son of Crow's Kind and gets the Big Orange in his name because his grandsire, the sire of Crow's Kind, is Big Orange. His dam, Black Lady, is by Up To Date, out of Surprise Lady by Big Surprise 144749, all the best of W. J. Crow's breeding. This boar is big in bone, good of feet, is mellow, active, smooth and sires the short heads and deep, stretchy bodies making the most desirable class of breeding hogs. We would expect some great things of this cross of the Big Orange boar on the Colosso sows. Colosso produced considerable quality on his stuff and gave them size, strong arched backs, good hams and lots of depth. Thuirer's Big Orange gets smooth pigs with lots of bone and a ruggedness of build that shows constitution and vigor in breeding. Some of the gilts are by other boars, one especially by Smooth Giant by Giant 2d by Nebraska Giant, that is one of the best in the sale. She is the largest of the spring gilts, smooth, deep, well hammed and with good bone and feet. Another of the choice spring gilts is by Big Black Jumbo, the big boar making such an excellent record in the Bloemendaal herd. The fall gilts are even in size and big, and while speaking of gilts there are three May gilts to be sold that are extra choice, nearly as big as late March gilts on most places, and cracking good ones, too. Write for catalogs now and plan on attending the sale. Ray L. Gribben will attend the sale for The Homestead. Address, mentioning this paper, C. L. Thuirer, Fostoria, Iowa.

The Hunt & Weberg Duroc Sale.

On March 4th, at Denison, Iowa, Hunt & Weberg will make a sale of fifty head of Duroc Jersey bred sows and it will not only be one of the last sales of the season, but it will be one of the well-bred offerings of the year. The sows these gentlemen are selling in this sale will be bred to such noted boars as Crimson Wonder 3d, the grand champion boar of several states, and this will be one of the first opportunities offered to buy a sow bred to this noted boar since he has come west. The other sows will be bred to C. H.'s Special, Gold Dust Prince and Grand Chief, every one a good boar and a splendid breeder. Included in the sale will be daughters of that noted sire, King The Col.; Col. Willetta; C. H.'s Special; Model Advance; Golden Model; A. F.'s Pilot Wonder; Golden Wonder 17th, and several other noted sires. These two well-known breeders have selected the very best sows they have in their herd for this sale and they are selling some that any breeder can well afford to buy. Few offerings this winter have contained as many well-bred sows as will be found in this sale. They are in nice condition and, while not loaded with fat, are in just the condition that will do the buyer the most good. Another thing about the sows that go into this sale—they are immune, and that means a great deal to the man who wants to buy a few of these good sows. If you don't get a catalog in time, just come to the sale or be represented with a bid at the sale. M. T. White will represent The Homestead on the above occasion and any bids sent him will be properly cared for.

Limestone Valley Farm's Jack and Jennet Sale.

L. M. Monsees & Sons, Smithton, Mo., who hold their annual sale of jacks and jennets on Tuesday, March 4th, at Limestone Valley Farm, have listed such a superior class of breeding stock that all who are in the market for or are interested in the Mammoth jack should arrange to attend the sale and see the thirty-five head of Mammoth jacks and twenty-four head of jennets that sell. It also will be an excellent time to see the world's leading jack breeding plant and to note the improvements being made in the herd. It was the writer's good fortune last week to spend some time on Limestone Valley Farm and again inspect the herd and the list of sale stock and we assure our readers of an opportunity never before surpassed to pick from this offering jacks and jennets that cannot fail to please and make good. Monsees & Sons have listed jacks that will please those looking for herd headers or for just good serviceable mule jacks. In fact, they have listed jacks that will fill the wants of the masses as well as those wanting the very highest type of herd headers. Among these herd headers we desire to call special attention to Buster Mammoth, a three year old; Dick Moore, another three year old; Monsees' Monster, and John Stypes, the latter being four and six years of age. The champion jacks, Limestone Mammoth and Orphan Boy, are represented in the offering by sons and grandsons. The twenty-four jennets are mostly bred to Orphan Boy and a number have jack and jennet colts at foot. It is not expected that former sale records will be broken, but this offering compares favorably with any ever made by these gentlemen and in some respects it is better. Monsees & Sons have established such an enviable reputation for square dealings in all their business transactions, both privately and through these public sales, that every one is assured an honest, square deal, backed by a guarantee that is unimpeachable. They put these jacks and jennets through the sale ring unprotected and your price is theirs. They have refused flattering offers for some of the tops, but, as has always been their custom, these offers were turned down and the stock will sell on its merit for the honest high dollar. Remember, the sale is next Tuesday; also remember that Monsees & Sons invite you to come a day or two early so that you may have ample time to inspect the stock and ask any questions you desire. See advertisement elsewhere and when writing these gentlemen kindly mention this paper.

Donohoe's Angus Sale.

M. H. Donohoe, Parnell, Iowa, is holding a sale of fifty-two Angus cattle at Williamsburg, Iowa, on March 5th. Ten bulls will be sold and among them are a number of extra good herd bull propositions. Black Oakfield, an extra good son of the noted sire, Black Woodlawn, is one of the good ones. He has been good enough for Mr. Donohoe to use on some of his best cows. The general high character of the bull offering should make this an excellent opportunity for breeders to select herd bulls. The females are equally as good and, in fact, few sales in the past have contained as many extra good cattle as this. Such noted celebrities as Blackcap 26th, Blackbird Mary, Blackbird Favorite 3d, Blackbird McHenry 73d, Blackbird McHenry 66th, Blackbird Cherokee 26th and other great females will be sold. Brookside Blackbird 20th, Blackbird of Cherokee 42d, Blackcap McHenry 96th and Midnight Lass W. are a quartet of two-year-old heifers that are mighty hard to beat in any sale. They are thick, smooth heifers with a world of quality and every one a show heifer. Oakfield Blackbird 18th is an extra good yearling by Irwin C. and out of Blackbird Judy; Oakfield Blackbird 19th is another extra good yearling daughter of Irwin C. and out of the noted cow, Blackbird Mary, and there are several other good yearling heifers, among them several show prospects. G. W. Felton, Knoxville, Ill., is consigning ten extra good females. If you want good Aberdeen Angus cattle write M. H. Donohoe, Parnell, Iowa, mentioning The Homestead, and arrange to attend the sale.

Frank Iams' Offering.

Frank Iams, St. Paul, Neb., addressing all those who are in any way interested in the purchase of draft horses, says: Cheer up! Never mind who is president, "Bryan or Wilson." It's "the man" who "does things" who makes the "government wheels" run smoothly and makes the "people prosperous." That's Frank Iams, St. Paul, Neb. He keeps "butting in," selling more first-class Percheron and Belgian stallions and mares annually. You will buy of him if you visit his barns. Iams began life a "poor boy," without money, friends or rich relations. Today he loans money to "110 banks" in Iowa, Kansas, Nebraska, Colorado and the two Dakotas and has the largest collection of first-class imported Percheron and Belgian stallions and mares owned by any one man in U. S. He has enriched his customers and their customers "ten million dollars" by placing first-class, big drafters on their farms and for sale to big cities (at "let-live prices"). "Iams' thirty-one years" of successful business ("making every statement good"), selling 5,444 registered stallions and mares "in thirty different states," also Mexico, Canada and Japan. Also 140 horses "on order" (or "on honor") from one to seven horses to "a party" and has never yet seen any of these "110 buyers." Iams has crossed the ocean "fifty times" for first-class horses and is good for "fifty more." Iams has sold from three to eleven head of stallions and mares each to sixty different farmers and ranchmen, one to five at a time. These men have "made good" in the horse business. They are Iams' "big, whole-page" advertisers daily. Mr. Business Farmer, if these many prosperous, "money-making horsemen" can buy stallions and mares of Iams and save $1,000 a stallion and buy a better horse, why is it not "good business" to buy your stallions and mares of the "king bee" horseman, Iams? Iams has eighty Percheron and Belgian stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 50 per cent "ton horses," 25 per cent grays, at $200 less price than blacks—75 per cent blacks and bays. Iams sells these stallions at $1,000 and $1,400 (few higher). Imported mares $700 to $1,000. All these stallions and mares have been "inspected" by two veterinary surgeons in France and are approved, registered and branded by French government. They have been "inspected" by two federal veterinary surgeons at New York City and horses pronounced "healthy" and their certificates "stamped and approved" by "chief of animal husbandry" at Washington, D. C. Also Iams has had a "Nebraska deputy state veterinary surgeon" "inspect" all his horses and Iams gives each buyer a "certificate of health and soundness" from this "state deputy veterinary surgeon." Iams' six financial letters of recommendation from six of the best banks in Nebraska (shown in his 1913 catalog)—they tell you why you should buy imported stallions and mares of Iams. His thirty-one years of successful business—his "one-half million dollars" behind his guarantee—the fact that he is a "live wire" business man—an expert horseman. He makes all competitors "stammer and stutter" and get "their hammers" out for Iams. But "every knock"

NEXT WEEK'S SALE PROGRAM

Monday, March 3	Durocs, John Truax & Son, Sycamore, Ohio.
Tuesday, March 4	Herefords, R. T. Thornton, Mgr., Kansas City, Mo. Jacks and Jennets, L. M. Monsees & Sons, Smithton, Mo. Durocs, Hunt & Weberg, Denison, Iowa.
Wednesday, March 5	Herefords, R. T. Thornton, Mgr., Kansas City, Mo. Aberdeen Angus, M. H. Donohoe, Williamsburg, Iowa. Poland Chinas, A. L. Mieth, Cairo, Neb. Short-horns, A. L. Mieth, Cairo, Neb.
Thursday, March 6	Percherons, S. J. Miller, Kirksville, Mo. Jacks and Jennets, S. J. Miller, Kirksville, Mo. Herefords, J. A. Shade, Kingsley, Iowa. Percherons, R. C. Dannen and H. C. Lowrey, Marshalltown, Iowa.
Friday, March 7	Percherons, V. D. Wolcott, Battle Creek, Iowa. French Drafts, V. D. Wolcott, Battle Creek, Iowa.
Saturday, March 8	Percherons, Fred Durbin, Mgr., Malvern, Iowa. Short-horns, Fred Durbin, Mgr., Malvern, Iowa. Shires, Fred Durbin, Mgr., Malvern, Iowa. Poland Chinas, J. H. Healy, Manilla, Iowa.

is a "boost" for Iams, as when stallion buyers visit "Iams' horse emporium" they find Iams has the horses as represented and that Iams "makes good" and his "old customers" are his best "whole-page advertisers." Write for Iams' 1913 "catalog and eye opener" with a "laugh and $1,000 bargain" on every page. It's the finest and most up-to-date "horse catalog" in the world. Buy a "through ticket" to "Iams' horse town," then "buzz around" and see Iams' "horse show," as he has the "best bunch" of big black boys he has ever owned. His "selling clothes" fit all buyers. See his advertisement elsewhere in this issue.

Burge's Short-horns.

George H. Burge, Mt. Vernon, Iowa, well known as a Short-horn breeder for nearly a quarter of a century, has been winning many important prizes at the Iowa State Fair for many years on cattle of his production. At the present time Mr. Burge has two extra good bulls for sale that are suitable for herd-heading purposes. A representative of this paper recently visited Mr. Burge and found on his farm some good young bulls. There is a good red yearling bull sired by a son of Imp. Lord Banff and out of a Nonpareil cow that will please some breeder looking for a good thick bull with a good spring of rib and well proportioned throughout. There is another good yearling red bull sired by Sultan's Heir, a son of the celebrated champion, Whitehall Sultan, and out of the dam of Mr. Burge's herd bull, Silver Sultan. This calf will please someone looking for a good one. Another good dark roan, thick bull is a Roan Lady sired by Choice Sultan 2d, a grandson of Whitehall Sultan. There is another good Flower Girl bull sired by Sultan's Heir. Mr. Burge can please the breeder in need of a herd bull, both in quality and price. During the past year Mr. Burge has offered the public his services as a live stock auctioneer. He has been employed on a number of sales and in every case has given excellent satisfaction and has received many compliments on his conscientious efforts to secure the values for the live stock sold in the sales with which he has been connected. His terms are reasonable and he would be glad to hear from anyone in need of the service of an auctioneer who knows values and pedigrees. See his advertisement and write him, mentioning The Homestead.

Dekalb's Hampshire Sale.

On March 12th H. D. Dekalb will make a public sale of Hampshire sows which, from present information, ranks as the greatset offering of that breed which has been presented to western buyers. For the convenience of patrons Mr. Dekalb has decided to hold the sale at Council Bluffs, Iowa, because of the excellence of railroad facilities. Sixty head of bred sows have been cataloged for this occasion. Thirty of them are mature sows that have raised litters. Most of these are the get of Major 19069, a hog which has been in service in the Dekalb herd for five years and that has decidedly remarkable qualities as a producer of size and quality. Major comes rightly by his impressiveness, because his ancestors for several generations have been champion prize winners at the greatest shows. These thirty tried sows have a great deal of size, many of them tipping the scales at from 600 to 700 pounds. They will have been bred to Dekalb King 13th and Dekalb King 56th. There will be twenty yearling sows, a portion of them by Major and others by Pirate 4517. There will also be ten spring gilts by Major and Erlanger 1039, the latter a Kentucky-bred grand champion winner. The whole consignment have been bred for April and May litters. Taken in its entirety the sale offering is an extraordinarily good one, in which the most discriminating buyers will be sure to find something good enough for either show or breeding purposes. It has been said that the DeKalb herd is stronger in its percentage of broad, well-arched backs and strong feet, as well as in size, than any other herd of the breed in Iowa. A representative of this paper, who recently visited the farm, found a collection of brood sows such as would be a surprise to buyers of any other breed of hogs. They were big, a number of them reaching the 700-pound limit; they had perfect backs and a general excellence of conformation that was striking. Mr. Dekalb has used a great deal of judgment in the selection of blood lines and has kept the blood of Major running throughout the entire lot in such a manner as to reproduce and settle the uniformity of type and good quality which make the herd so generally attractive. The excellence mentioned is illustrated by the fact that Mr. Dekalb bred the hog, Teddy R. B., which was the only one which ever defeated the grand champion, Pat Maloy. At a combination sale held at Creston a hog of his breeding brought the high price of the offering. Last fall a gilt in his Council Bluffs sale brought $101. In later issues of this paper additional facts of interest to buyers will be presented. In the meantime, however, catalogs may be obtained which will give pedigrees in full and such other facts that may be of interest to purchasers. These catalogs may be secured by writing to H. D. Dekalb, Dekalb, Iowa.

Isenbarger Bros.' Angus Sale.

One of the good offerings of Aberdeen Angus cattle that will be sold this spring will be on March 12th, at Battle Creek, Iowa, when Isenbarger Bros. will sell thirty-six head made up of Blackbirds, K. Prides, Trojan Ericas, Queen Mothers and other popular families. These gentlemen are selling thirteen head of Blackbirds in their sale and these are just as good as they have in their herd. They always sell a good bunch of cattle and this offering is no exception to the rule. There will be twelve head of bulls in the sale, among which will be their noted herd bull, Black King of Homedale. This bull is one of the best individuals in the West and one of the best bred bulls in the country. He is a son of the mighty Black King of Woodlawn, that made the reputation of the Igo herd. His dam is Blackwood 14th by the noted show and breeding bull, Black Monarch of Emerson. He is one of the best bred Blackbird bulls in the West and he is an individual of rare excellence. Some breeder is going to buy a great herd bull there. They have retained so many of his heifers in the herd they cannot use him any longer and therefore have concluded to part with him. There will be four splendid young Blackbird bulls in the sale and these are sired by Black King of Homedale, Blackbird Barney and Black Justice 2d. One of the oldest and one of the best of these is Fairly Burly 3d. He is a son of Black King of Homedale and is out of Blackbird of Benson 37th. Fairland Brigand is a yearling by Black Justice 2d and is out of a daughter of Black King of Homedale. A splendid seven-months-old bull is by Blackbird Barney and out of Esther of Quietdale, and there are two or three of these young Blackbird bulls sired by Black King of Homedale that are going to make outstanding herd bulls when grown out. These gentlemen are selling some splendid bulls in this sale and here will be an excellent place to buy your herd bull. They are also offering some splendid cows and heifers, among which are a choice lot of Blackbirds, Trojan Ericas, K. Prides and Queen Mothers, of which we will tell you more about in next week's issue. C. E. Fuester, Battle Creek, Iowa, is also selling seven good females in their sale. Altogether these gentlemen are selling one of the choice offerings of the spring season and it will be a splendid place to buy bulls or females of this great breed. Write Isenbarger Bros., Battle Creek, Iowa, at once for copy of their catalog and kindly mention The Homestead.

The Shade Hereford Sale.

On March 6th, at Kingsley, Iowa, J. A. Shade will offer another great offering of Hereford cattle, and it should be one of the most attractive sales of the year. He is offering the largest number of good aged bulls that will sell in any one sale this year. More than two-thirds of the offering are over sixteen months old. Every bull has been held for this sale and I never have seen more quality with good breeding for the number. This is a strong statement, but he has the goods. It is a bull show sale, twenty-six in number, a grand lot throughout, including several that have done service in the herd. Rex Dorian goes in, one of the greatest sons of Dandy Rex. He is four years old and is one of the grandest breeding bulls that will sell this year and the last chance to get this breeding. Mr. Shade regrets to part with him, but his herd is much the same breeding. He sired Beau Albany, that sold in his last April sale to L. A. Clifford, Oshawa, Ontario, Canada. He also sired the show heifer, Petunia, in the C. A. Tow herd, Norway, Iowa. Mr. Shade is also selling the grand bull, Beau Dover, as he has several cows in the herd by the same sire. He was Lot 1 in the Gudgell & Simpson October 24th sale at Kansas City. They said he was the best they had bred in years. No one is selling a better prospect for a show and breeding bull. Six great bulls by Beau Elect—Elect 4th, Elect 6th, Elect 7th, Elect 9th, Elect 10th and Beau Albany—no better to be found. Beau Elect's first three bull calves sold last spring, all under a year; two were top of sale. One junior bull calf sold privately to L. A. Clifford, president of the Canadian Hereford Cattle Breeders' Association. Monarch 9th will make someone a great herd bull. Four of the best cows in the sale are bred to him. Others of their equal are Beau Matchless by Beau of Shadeland 35th, Mathew by Beaumont Jr. and Duke of Dudley. Belfast will make someone a grand bull by the great breeding bull, President, sold in Mr. Shade's last sale to head the Geo. Leigh herd at Aurora, Ill. Fourteen great cows with calves at foot and bred again. Ten of the calves at foot are bulls of nearly serviceable age. This includes Delight 3d, the two-year-old champion cow; Lady Lavender by the champion bull, Castor; Geraldine by Young Beau Brummel, nearly a full sister to the champion, Scottish Lassie. For a further attraction Mr. Shade is listing Petonette by Beau Brummel, without doubt one of the best cows of the breed. Ten grand two-year-old bred heifers, as good as you ever saw, are in one lot. It is a high-class show throughout. It will be worth your trip to Shadeland to see them. There is a bright future ahead for the man who has stood by his beef herd. When writing kindly mention The Homestead. See advertisement elsewhere in this issue.

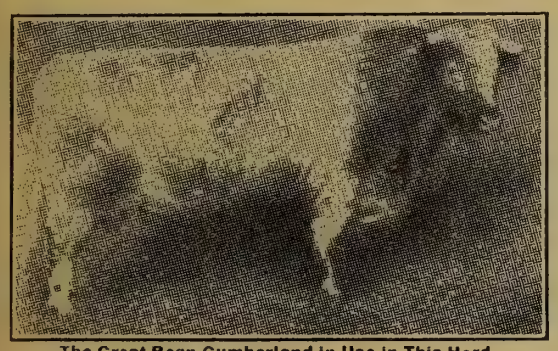
Imported Belgians for Sale.

R. F. French, Independence, Iowa, a well-known importer of Belgian stallions and mares, writes under recent date as follows: "For the next thirty days I am offering the stallions and mares of my October importation at very close prices to make room for my spring importation. I still have some of the best on hand and can show the

GREAT DRAFT SALE of SHORT-HORNS

WILL BE SOLD FROM THE HERD AND AT THE FARM OF

H. SMITH & SON, TOBIAS, NEB., ON TUESDAY, MARCH 18, 1913.



The Great Roan Cumberland in Use in This Herd.

THIRTY-EIGHT head of very choice cattle will be offered. They include thirty cows and heifers and eight bulls. The offering is practically all of our own breeding, and by far the greater part of the offering sired by the great and only **GOLDDUST,** one of the best sires central Nebraska has ever had. The females of breeding age are bred to or have calves at foot by **ROAN CUMBERLAND,** a son of Cumberland's Last. We show herewith a likeness of Roan Cumberland. The young bulls are of serviceable ages, and the entire offering is of good pedigree, many are Scotch. Arrange to attend this sale. We want you to be with us. Send for a catalog today, and when writing mention The Homestead. Address

A Daughter of the Great Golddust, Included in This Sale.

BELLOWS & THOMPSON, Auctioneers.

H. SMITH & SON, TOBIAS, SALINE COUNTY, NEBRASKA.

SHADELAND HEREFORD SALE, KINGSLEY, IA., THURSDAY, MARCH 6

The greatest lot of cattle ever sold from our farm. 50 head. 26 show bulls of the highest class and most fashionable breeding, 24 cows, 14 with calf at side and bred again, 10 two-year-old heifers.

The Kind We Breed at Shadeland, All Sons of Beau Elect, Some Promising Herd Headers. The Picture Shows the Smallest Bulls in the Sale. The 15 Older Bulls are the Same Type.

THE grandest lot of young bulls that ever left **Shadeland Farm** go into this sale. Both **show and breeding bulls** of the highest order, with exceptional uniformity and unsurpassed breeding. All of serviceable age, **from 16 to 24 months.** None have been sold and the best go into this sale. There will be **14 of as good cows with calves at foot** as were ever listed for a sale in the West, and these are all bred again. **Ten of the calves are bulls of nearly serviceable age. Ten of the very best heifers in the herd have been reserved for this sale,** and some of these will make show heifers for the fall fairs. If you are on the market for Herefords come and spend a day at **SHADELAND FARM,** the finest in the West. Parties attending the Funkhouser-Gabbert combination sale on March 4th and 5th can leave Kansas City on the Missouri Pacific at 10:35 p. m. March 5th, reaching Sergeant Bluff, Iowa, at 10:40 a. m., where there will be an extra train awaiting them to reach Kingsley at 11:30 a. m. March 6th. Through sleeping car accommodations from Kansas City to Sergeant Bluff. Parties from the West can leave Omaha at 7:45 and Council Bluffs at 8:00 a. m. the morning of the sale. Col. Fred Reppert and assistants, auctioneers. Write for catalog at once, mentioning The Homestead.

J. A. SHADE, Kingsley, Iowa.

MARCH POLAND CHINA SOW SALE

M. F. O'Hern TUESDAY, MAR. 11 Barnum, Ia.

40 Head including 15 Tried Sows, 4 Fall Gilts, and 21 Spring Gilts.

BRED for April farrow, some for later, making the proper time for farmers who are wanting more sows for the next year. This is a sale which it will pay the farmer to attend for the sows are good ones and you can get them at the prices you want to pay for them. The sows are Chief's Wonder 2d., a boar that carries some of the best of the old Harvey Johnson blood, and a good individual of the most useful type. Some of the old sows, Osborne's Queen, Osborne's Queen 2d., Tecumseh Lady 3d. and Ideal Queen, especially, are good enough for any sale, and the most of the gilts are descendants from these sows and their kin. The sows that will be sold are the medium type, and come from stock that have always brought big litters. The sale will be held at the farm two miles southwest of town. Get a catalog mentioning The Homestead when you write. Col. F. F. Luther, auctioneer, Ray L. Gribben, and C. C. Carlin, field men.

M. F. O'HERN - - - BARNUM, IOWA.

Lawler's Postponed Poland China Sale

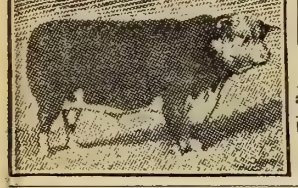
CLARE, IOWA, MARCH 12, 1913

50 Head Choice Sows and Gilts in strictly thrifty and healthy condition

A BIG-TYPE herd with two of the best big-type boars in the state at its head. Miller's Choice is a strongly bred big-type boar with the best of the John Miller breeding and is a 970-pound pig. Chief Price A. by Chief Price 2d dam by the Fesenmeyer A Wonder, another of the good ones in this herd. Giant's Equal by Equal's Giant by Long King's Equal, and out of a sow by D's Longfellow is the young boar. The sows are in good condition to go out and do well on any farm. They are the best of breeding, and you will have the chance to make your own prices. Be at the sale and get some of these good sows Write mentioning The Homestead. Ray L. Gribben, field man.

JAMES LAWLER - - - CLARE, IOWA.

TOO LATE TO CLASSIFY.



HEREFORD BULLS AND FEMALES

FOR SALE—15 bulls from 12 to 18 months of age. Also some younger bull calves, yearling and two-year-old heifers. Cows with calves at foot or due to calve soon. At prices that will move them. Disturber, Anxiety, Perfection, Earl of Shadeland, Hesiod 2d and other noted bulls appear in the pedigrees. Write for prices, Mention Homestead.

W. T. WRIGHT, Mt. Pleasant, Ia.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA.

MISSOURI AUCTION SCHOOL

KANSAS CITY, MISSOURI

THE TERM OPENED FEBRUARY 3, 1913

This is an actual practice term. Get my new free book, it tells how to be an auctioneer

MISSOURI AUCTION SCHOOL, 14th and Grand Ave., KANSAS CITY MO.

SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, reserve grand champion boar 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale from our prize-winning sows and boars. Prices right. Mention The Homestead when writing. C. A. BROOK, WASHINGTON, IOWA.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals We send him anywhere on request and quote prices as low as is consistent with good work Let us send him to you before arranging your season's advertising Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

Swallow's Closing-Out Sale

Dispersion Sale at My Farm Near BOONEVILLE, IOWA, THURS., MARCH 6

MY entire herd of fifty Poland Chinas will be disposed of at this sale. It includes a prize winning herd boar, A Wonder; two coming yearling boars, eight boars five months old, nine tried two-year-old sows, ten spring gilts and thirteen head of fall pigs. The sows carry the best strains of blood of the breed. They will have been bred for March, April and May litters. The older ones are recorded and all others are eligible to record. Buyers will be met at Booneville and Waukee.

W. Z. SWALLOW

John Duff, auctioneer. Waukee, Iowa

BERKSHIRES

We are now ready to book orders for **Pigs from Spring farrowings,** to be shipped when weaned. We also have a few very fine pigs from last Fall litters still unsold. Be sure and write before buying.

MORGAN FARM BELOIT WIS

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address

H. H. REED, - MARENGO, IOWA.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable **Willard Miller, R. F. D. No. 2, Anita, Iowa**

AYRSHIRE Cattle for sale. Bred for good dairy results. Breeders and Shippers. Prices reasonable. **F. TSCHUDY & SONS, Monroe, Wis.**

When writing to advertisers please mention The Homestead

prospective buyer of a stallion or pair of mares, the best that were imported last year. I do not import any second-rate stallions or mares, as my motto is: 'The best are none too good for the Iowa farmer.' I have several prize winners in Belgium and also several Iowa State Fair winners for sale. I give a guarantee that is on the square. You are sure to buy if you come and see my horses. Do not do yourself the injustice of not seeing what I can show you if you want to buy a Belgian stallion or mare with quality guaranteed." Mr. French's advertisement appears elsewhere in this issue. Write him your wants, mentioning The Homestead.

—Mrs. Alice J. Morris, Big Rock, Ill., writes that she has sold nearly all her surplus cockerels, but can spare a few choice pens and trios at reasonable prices. Her White Orpingtons are of a very superior quality, the original stock being a $100 pen direct from Kellerstrass Farm. Many birds of highest exhibition quality are included in the flock from which eggs are furnished for hatching at the reasonable price of $8 per 100. She also has a splendid flock of Single Comb Buffs, eggs $5 per 100. If in the market for eggs for hatching you can hardly afford to miss this opportunity to get high-class eggs at such a low price.

Shallenberger's Great Short-horn Sale.

One of the great Short-horn events of Nebraska each season is the great sale made annually by Hon. A. C. Shallenberger, Alma, Neb. It is an event that sort of marks the progress of the years, so well established it has become. It is an event that annually marks the starting of new herds, and with a view to supplying that demand Mr. Shallenberger is listing many of the very choice things of the herd. Practically pure Scotch breeding prevails, although there are a few pedigrees that have an outcross or two in them. These so-called outcrosses of plain breeding are in reality crosses of most excellent bulls and come from a long line of noteworthy ancestors. The writer takes the stand that any pedigree is a good one that is descended from a long line of worthy ancestors and, in fact, that is the only thing that adds a bit of value to any pedigree. While the reading of these few pedigrees has been damaged a bit, yet we will have to admit that the animals are fully as good and if we face the matter squarely we will probably admit that they are just a bit improved. However, the greater part of the offering is of the purest Scotch and the lovers of the straight pedigree will find ample material here to satisfy their wants. This herd has always been particularly strong in the line of herd bulls, and included among them are many that are imported. The great Imp. Diamond Rex was among this number, also Imp. Scotch Bank, Imp. Scottish Sentinel, also the great and only Victor's Roan Duke. This last named bull was of the famous Brawith Bud family and he was got by the great Golden Drop Victor by Imp. Nonpareil Victor. The dam of Victor's Roan Duke was Imp. Golden Duchess 2d by the noted Duthie bull, My Lord by Royalist. Just now there is in use the young bull by Victor's Roan Duke called His Highness. He was a show bull of much prominence in his yearling form and we are of the opinion that if properly fitted he will be mighty interesting competition for the next season's shows. Also a young bull, Royal Peer by Victor's Roan Duke, has been some in service in the herd and he will also go in this sale. His dam was one of the very best cows in the Shallenberger herd and was got by Coming Star by Royal Victor. This last named bull will be a mighty interesting kind of a bull for those looking for a herd header. Another young bull we would like to mention in particular is out of one of the great cows of the breed today, having produced the well-known bull, Royal Rex, now in use in the R. Wilde herd; also the young bull, Royalist, in use in one of the good herds of the state. Royal Peer is a proven sire, as there are quite a few calves on the farm sired by him and they are exceptionally fine and every one of a beautiful color. He is a very attractive sort of an individual and really should meet with favor by someone in the market for a really high-class sire. A beautiful herd bull prospect may also be found in a son of Imp. Scotch Bank and out of Imp. Maud 44th by Lovat Star by the noted Lord Lovat bull, Royal Star. This is a herd bull proposition for the very best kind of a herd and should be well looked after. A choice young bull is one sired by Combination, a young bull of the Geo. Allen herd and named Combination by him for the reason that he combined more of the blood of really great sires and dams than any other bull he had ever owned. Two or three very choice young bulls are the get of Imp. Scottish Sentinel and we can only add that this bull is now at the head of the H. H. Kuper herd and is being widely advertised and becoming more and more popular each season. Bulls by him are the right sort to buy. A lot of choice cows and heifers will be included and among them are many that will appeal to those looking for the choice stuff. Nice pedigrees and nice cattle are the rule among them. Keep this sale in mind and send for the catalog today. Mention The Homestead when you write.

THE SUCCESS OF THE AVERAGE MAN.

By Elliott Flower.

Western Canada has struck a new note in the exploitation of her resources and opportunities. Time was when, like all other countries in process of development, she sent out broadcast the story of the exceptionally successful settler by way of invitation to the others. The story was true, too. Make no mistake about that. It is quite unnecessary to fake such stories in western Canada, for true stories can be had that are as wonderful as any the fertile imagination can invent. But they give a wrong impression of general conditions, especially to the unthinking. The unusual success of Jones, or Smith, or Robinson, of whom prospective settlers heard much, was accepted as fairly representing general conditions, whereas it was really exceptional. Now, the prospective settler is not only told more about the average man and less about the exceptional one, but he is specifically warned not to base his hopes upon exceptional successes.

About ten years ago I made a trip through Western Canada with a party of newspaper and magazine men, and from Fort William to Edmonton we were the guests of the Canadian Northern railroad. We gave some attention to the Saskatoon district. We made an automobile trip over part of that district, and we met a man who had arrived there a few years before and then had ony $3 in his pocket, and now had a farm of 640 acres and over 200 head of live stock. We also met the man who had raised 107 bushels of oats to the acre on a part of his land, and we heard of, but did not meet, the man who had raised fifty-five bushels of wheat to the acre on a part of his land. Likewise we heard of the man who had to borrow money to get there and now has nearly 1,000 acres of land, a $3,000 house, three barns, etc. But we did not hear anything about the success of the average man, nor did we learn what the men who had made such wonderful records on part of their land—a few acres, possibly—had cleared from the rest of it. There was also a foot on the soft pedal when it came to the question of the hardships and work required to achieve these successes.

Don't misunderstand me! All that we were told was true, but it somehow gave the impression that a man could come out there barefoot and grow a pair of shoes; that, after planting a shoe lace, he could sit down in idleness and smoke until the shoes were ripe. No one said so, but neither did anyone say anything about the hard work and privations that were the price of success. The experienced farmer would know, of course, but the inexperienced would get the idea that it was no trouble at all to make a fortune.

I went over part of the same country again last fall, giving some attention to Saskatoon and also the Goose Lake district, through which the new Calgary branch of the Canadian Northern passes, and it was then that I discovered the new note. I heard more about the average man and less about the exceptional one; more about average yields and less about record ones. When a phenomenal success or an exceptional yield was mentioned as naturally happened occasionally, it was always with a cautionary, "but that's much better than the average ye know." There seemed to be an actual disinclination on the part of the men in charge of promotion work to talk about these things; they preferred to tell of the cases of moderate success—moderate for that country, although they would have been exceptional for many localities. For instance, I learned that the average yield for a considerable number of farms—not selected, but taken as they came—was thirty-one bushels of wheat to the acre and fifty bushels of oats. Many could show thirty-five to forty-five of one and sixty to eighty of the other. The higher figures showed what could be done with the land; but the average represented what was done with it. On the previous trip there was no talk of averages.

I was also encouraged if I chose to interview any settlers to select my victims at random instead of having them selected for me, and I did so. Different men reported very different results, but they were all satisfied. Those who had done so well as their neighbors expected to do better the following year. They admitted, in some cases, that lack of experience had much to do with their relatively poor showing, and they were gaining in experience and knowledge all the time. They also emphasized something that received scant attention on the previous trip—the necessity for work, work and more work if any great measure of success were to be secured

ISENBARGER BROS.' ABERDEEN ANGUS SALE

BATTLE CREEK, IA., MAR. 12

36 HEAD. 12 CHOICE BULLS, 28 COWS AND HEIFERS

INCLUDED will be our great breeding bull **Black King of Homedale,** one of the greatest Blackbird bulls in America today. He is one of the best sons of the noted Black King of Woodlawn, and is one of the best bred bulls that has been sold in recent years. There will be 12 choice young bulls in the sale and some excellent cows and heifers. There will be **13 Blackbirds, 6 Prides, 2 K. Prides, 2 Trojan Ericas,** and other families will be represented. C. E. Fuester, of Battle Creek, will sell 7 head of cows and heifers in the sale. Write for catalog at once and mention The Iowa Homestead. Address

COL. SILAS IGO, Auctioneer. **ISENBARGER BROS. - BATTLE CREEK, IOWA**

HAMPSHIRE SOW SALE

The Breed that belts the world.
The Hog that feeds the millions.
The Market Toppers.

60 HEAD

60 HEAD

Sixty head from America's best herd, and I can prove it, will be sold at the Kiel barn,

COUNCIL BLUFFS, IA., WEDNESDAY, MARCH 12, 1913

Auctioneers: Fred Reppert, H. S. Duncan, N. G. Kraschel, R. H. Glenn. Monroe Newton, clerk.
For catalogs address

H. D. DeKalb, DeKalb, Iowa

MIETH'S BIG SALE

Poland Chinas Short-Horns

Will be Held at Farm Near

Cairo, Neb., Wednesday, March 5, 1913

40 HEAD of choice cattle, mostly young cows and good, thrifty heifers and young bulls, just old enough for service. They are nearly all the get of **LORD MISSIE 2D** by Prince Victor 2d, he by Prince Gloster, the sire of the $10,000 Prince Imperial. These cattle will be sold in only moderate flesh. They are all of good blood lines, however, and my herd is a very prolific one.

THE FORTY POLAND CHINAS consist of 20 sows and 20 gilts. They are sired by the great breeding boar, Quality by Blue Valley Quality; also by Gold Dust by Raven. Raven is a brother to the champion, King Mastiff. They are mostly bred to Expansion Look by the great Expansion Again and Ideal Sampson by Sampson by Pawnee Lad. The sows are the utility kind, not show stuff, but the sort to raise good, strong, even litters. Send for catalog at once and mention The Homestead. Col. Z. S. Branson, auctioneer. J. C. Price, field man for The Homestead. Address

A. L. MIETH - - - CAIRO, NEB.

J. H. HEALY'S

BIG-TYPE POLAND CHINAS

MANILLA, IOWA, MARCH 8TH

60 HEAD of Spring Gilts that will average 375 to 400 lbs. 60

THESE are all sired by **Lingford's Choice 60911,** the 2d-prize boar at Nebraska State Fair, 1911. These are out of my very best sows. In no other sale this year has such an offering been listed for a public sale. Most of these will weigh over 400 pounds by sale day. Most of the best of these are bred to **Colossal H. 65758,** the top boar in the Alvin Windom sale last fall. You never saw a bettor lot of young sows than I am selling in this sale. M. T. White and C. C. Carlin, field men for The Homestead. Catalog now ready. Write for it and mention Iowa Homestead. Address

J. H. HEALY, MANILLA, IOWA.
COL. H. S. DUNCAN, Auctioneer.

BREEDERS' SECOND ANNUAL SALE OF

PERCHERON AND SHIRE STALLIONS AND MARES

Malvern, Iowa, Saturday, March 8th

20 Head of Registered Percheron and Shire Stallions and Mares, 1 Registered Spanish Jack, 40 Head of High-Grade Draft Mares, Geldings, Fillies and Colts

OVER half of the registered horses are matured stallions ready for service. These are consigned by the following breeders: **C. E. Hilton, I. J. Swain, Henry Parker, Clara B. Stevesson, O. A. Strahn,** Malvern, Iowa; **R. O. Jackson,** Glenwood, Iowa; **V. L. Gaston,** Tabor, Iowa; **J. H. Clark,** Imogene, Iowa; **C. E. Ballain, W. A. Lang,** Emerson, Iowa; **J. H. Thompson,** Elliott, Iowa; **D. J. Gibbons,** Cromwell, Iowa; **Grant Summers,** Malvern, Iowa. These horses are all good and were raised by the breeders in this vicinity. Weanling colts will weigh 1,000 pounds and some stallions 2,200 pounds. There are some splendid mares in this sale. This is a high-class lot of horses in every way. Write for catalog at once. Col. Carey M. Jones, auctioneer.

15 SHORT-HORN BULLS 15

At 10 o'clock in the morning Geo. H. White, of Emerson, Iowa, and I. J. Swain, of Malvern, Iowa, will sell 15 registered Short-horn bulls of the very best breeding and splendid individuals. If you want bulls be sure to be here in the morning.

FRED DURBIN, Manager MALVERN, IOWA

PERCHERONS, JACKS AND JENNETS

AT AUCTION, AT

Kirksville, Mo., Thursday, March 6th

20 Head Imported and American-bred Stallions and Mares.

25 HEAD Mammoth Black Jacks and Jennets

STALLIONS range from 1,800 to 2,000 pounds, are a tried and proven lot of blacks and dark grays. An exceptional lot of mares safe in foal. The second-prize 2 year old 1911, and first-prize weanling, 1910, at Missouri State Fair are included. The jack and jennet offering is superior in every way. The blood of old Hannibal, Planter and Clearmont predominates. Send now for catalog, mentioning The Homestead.

Hieronymus Bros., Auctioneers. **S. J. MILLER, Kirksville, Mo.**

HEREFORD SALE

By FUNKHOUSER, GABBERT and OTHERS

OUR SEVENTH BIG ANNUAL TWO-DAY SALE

To be held at KANSAS CITY, MO., MARCH 4-5, '13

60 BULLS
40 COWS
AND HEIFERS

EVERY ANIMAL TESTED FOR TUBERCULOSIS. **Sixty splendid, big, lusty bulls of serviceable age. Forty excellent** young cows safe in calf or with calves at side. Representatives of herd bulls that have made Hereford history. A **selected** lot from the following **well-known breeders:**

Benton Gabbert, Dearborn, Mo.
W. A. Dallmeyer, Jefferson City, Mo.
Funkhouser Estate, Plattsburg, Mo.
R. T. Thornton, Kansas City, Mo.
J. W. Lenox, Lake City, Mo.
S. J. Gabbert, Dearborn, Mo.
T. W. Carmichael, Odessa, Mo.
James A. Gibson, Odessa, Mo.

We have sold you good cattle at our former sales, but never before have we been able to offer you as many **high-class cattle** as at this sale.

For catalog or other information address R. T. THORNTON, Mgr., 1309 E. 15th St., Kansas City, Mo.

HUNT & WEBERG'S SALE

DUROC JERSEY

BRED SOWS

DENISON, IOWA,

MARCH 4, 1913

50--HEAD--50

THIS will be one of the last sales of the year and one of the best offerings of the season. We are selling daughters of **Col. Willetta, King the Col., Model Advance, Grand Chief, C. H.'s Special, Golden Model, A. F.'s Pilot Wonder, Golden Model 17th,** and other good boars. These sows are bred to the grand champion boar **Crimson Wonder 3d, C. H. Special, Gold Dust Prince** and **Grand Chief.** Make it a point to attend this sale or send a bid. Catalogs ready.

HUNT & WEBERG, DENISON, IOWA.

Col. N. G. Kraschel, Auctioneer. M. T. White, field man for Homestead.

C. L. Thuirer's

Poland China Bred Sows

Sale Fostoria, Ia., March 11th

40 HEAD Including 5 tried sows, 7 fall gilts and 28 spring gilts, ALL BRED FOR LATE MARCH and EARLY APRIL FARROW **40 HEAD**

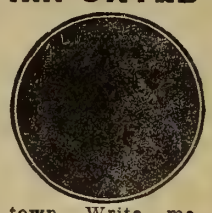
SIRED by the great **Colosso** a Minnesota winner, and before we lost him pronounced one of the best boars in this part of the state. Some by Thuirer's Big Orange, a grandson of Big Orange by one of Big Orange's greatest sons—Crow's Kind. The Colosso sows will be safe in pig to the Big Orange boar. Some are bred to Pioneer Price, a Pioneer Chief Price boar, and Thuirer's Hadley by Barker's Hadley. These sows and gilts are thrifty and healthy, good size, all carrying best of breeding. Take advantage of this last chance for good bred sows.

Col. H. S Duncan, Auct. **C. L. THUIRER, Fostoria, Iowa.**

Ray L. Gribben, field man.

HORSES.

IMPORTED BELGIANS



I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.

R. F. FRENCH, INDEPENDENCE, IA

SHIRES

TWO GOOD STALLIONS and FOUR MARES for sale. Write for information and price.

ROBT. JARMAN, Carlinville, Illinois

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

SHIRE AND PERCHERON STALLIONS AND MARES

IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

SHIRES

SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

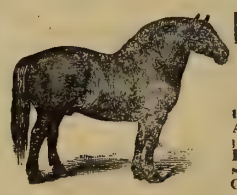
ED. H. MAGOWAN & SONS, Gibbon, Neb.

PERCHERON and BELGIAN STALLIONS and MARES

IMPORTED and Home Bred. High-class horses on hand.

CALL AND SEE US.

E. H. Knickerbocker & Son
Fairfax, Iowa.



Hart Bros.

Osceola, Iowa

Our **1912 importation** now in our stables. A high-class lot of imported **Percheron, Belgian** and **Shire stallions** and **mares.** Come and see them.

FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

-B-E-S-T-

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

HORSES.

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

PERCHERON STALLIONS

FOR SALE. One imported 6 year old, one home-bred 4 year old. Extra good ones. Good breeders.

SMITH & BAUMERT.

Postoffice, R. 1, South English. Keokuk county, Ia. Stations—South English and Harper, Iowa.

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.

P. J. EGGERS - Denison, Iowa.

WHAT KIND OF COLTS

WILL your mares drop this spring; pure breds worth $175 to $275 at weaning time, or grades for which you will be lucky to get $100 at same age? Starting right doesn't cost so much as you imagine. t costs no more to rear pure breds than "scrubs."

Purchase Percherons

Free Bulletin C on request. Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

Royally Bred Clydesdale Prize Winners

2 stallions, one a full brother to the state fair winner, Forest King; the other, a yearling, by him. They have size, big flat bone, good feet, are drafty types. One mare, the dam of the young horse, and a good one. I guarantee them to be right in every way. Address JAMES PEDLEY, Britt, Iowa.

FOR SALE

HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.

E. P. HAMILTON & SONS,

Garden Grove, Decatur county, Iowa, R. F. D. 2. 23 miles southwest of Chariton.

10 Prize Winning Belgians

IMPORTED and home-bred stallions and mares, ranging in age from yearlings to matured horses. Some splendid mares and studs for sale. For particulars address

ED BOLL, JR., - SCRIBNER, NEB.

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska

Percherons

I AM offering some splendid yearling and 2-year-old stallions for sale at popular prices. Address

MONROE AYERS - Shenandoah, Iowa.

FOR SALE Five registered Clydesdale stallions. Four are sired by a half-brother to the highest priced draft horse ever sold. **JAMES WILLIAMSON, Baxter, Iowa**

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, Ia.**

PERCHERONS FOR SALE Stallion and mares A Short-horn bull 5 months old. W. H. Miller & Sons, Independence, Ia.

FOR SALE—Three French Draft stallions. 1 black, weighs 2,100 lbs.; 2 3-year-olds, brown and black, weigh 1,800 lbs. Jacob Layland, Box 444, Audubon, Ia

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

Horses Wanted $3,000 equity in one of best quarters in Stanley Co. to trade for horses. Incumbrance $1,500 at 7%. B. Datin, Faith, S. D.

FOR SALE 2-year-old black Percheron stallion. A good one. will sell at right price. Inquire of L. G. OVERTURF, ELBERON, IOWA.

FOR SALE—An English shire stallion and a Missouri-bred jack. Good breeders. Sure foal getters. Prices reasonable. L. B. Cummings, Clearfield, Ia.

High Prices for Shires.

In a telegram received from J. H. Truman, Whittlesea, England, by the Pioneer Stud Farm, Bushnell, Ill., is conveyed the information that at Lord Rothschild's sale, held at Trigg, England, February 14th, thirty-two Shire colts and fillies, running in ages from yearlings to three years old this spring, sold for an average of 454 guineas, or $2,288. The colt champion, Goalkeeper, that was junior champion at London last year, topped the sale at 4,100 guineas. This is a world's record sale.

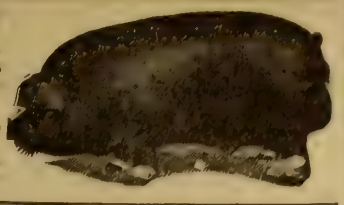
Choice Hereford Bulls.

W. T. Willis, manager of the Funkhouser Estate, Plattsburg, Mo., is selling in the Kansas City Hereford cattle sale on March 4th and 5th nine bulls and six heifers. Mr. Willis calls special attention to Cromwell 6th, Cromwell 5th, Rex Onward 14th, Onward Lad 41st and Onward Lad 43d as being among the choicest things produced in the herd in recent years. R. T. Thornton, 1309 E. 15th St., Kansas City, Mo., manages the sale and will take pleasure in mailing you a catalog if you have not received one.

POLAND CHINA SWINE.

W. H. COOPER, LIVE STOCK AUCTIONEER

THE fact that I am selling for many of the best breeders of today is ample evidence of my ability to get the value of your property. I am arranging sale circuits, making dates for next season's business, now. If my services are desired to conduct or assist in your sale would be pleased to give you dates and terms.



DON'T FORGET, WE BREED AND SELL BIG-TYPE POLANDS We will sell now some AUGUST boars and gilts, sired by our 860 pound two-year-old boar, BIG BONE 2d, and out of sows weighing 650 to 800 pounds. These at $20 each while they last. If you want some send your check with the order. You can send them back and we will return your money if they don't suit. Can furnish boars unrelated. Address W. H. COOPER, HEDRICK, IOWA.

CLOSING OUT POLAND CHINA SOWS

I AM offering all my noted big-type brood sows for sale at private treaty. Forty head, daughters of Chief Price 2d, Monarch Chief and other noted boars. I am offering twenty head of brood sows that cannot be equaled in any one herd in the state. I am leaving the farm and they must be sold. Write or come and see me. Address

E. F. ESCHER - . - MANNING, IOWA

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address R. B. BAIRD, Central City, Neb.

Porter's Oakwood Farm

BRED Poland China Sows. Big, stretchy Poland China gilts, yearlings and some matured sows bred to big-boned boars from best strains. Gilts mostly out of Porter's Hadley Expansion, bred for early farrow. Spring gilts up to 300 pounds, fall gilts 400 to 450 pounds in breeding condition. Size, quality and bone specialties. Address
C. H. PORTER - EAGLE GROVE, IOWA.

POLAND CHINA BRED SOWS Sows by our 1,000 lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

POLAND China spring gilts, bred for April farrow to a grandson of A Wonder. The prolific, heavy boned kind. $25.00 to $35.00. Address
E. J. AUGSPURGER, - PULASKI, IOWA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Iowa

30 Heavy-Boned, Growthy Poland China Boars AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
P. S. & S. BARR, - Davenport, Iowa.

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address E. V. Waugh, Greeley Center, Neb.

Big-Type Poland China Gilts

BRED for March and April farrow. If you want something with lots of size and bone, with quality, write me your wants. Prices right. Address
H. A. WOHLSDORF, LAWLER, IOWA.

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners
G. A. WIEBE - BEATRICE, NEBRASKA

ABERDEEN ANGUS CATTLE.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty 50 coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, highr class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

AMSBERRY'S ANGUS

TWENTY extra choice young cows and heifers, also a few young bulls and one aged Blackbird bul for sale. Popular breeding and attractive prices Address J. A. Amsberry & Son, Mason City, Neb

I AM OFFERING for sale at private treaty 14 Angus bulls from 8 to 16 months of age. Nearly all of them are sired by Blackbird Jack 129823, one of the good sons of Black Woodlawn, and all of them bulls of quality and breeding. There are 3 Blackbirdas, 2 Trojan Erics, 3 Queen Mothers and 1 Pride in the lot. A. G. Messer, Grundy Center, Ia.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

QUALITY in ANGUS BULLS

Big, black business bull—Ready for you—The kind you want—Both quality and price will please—Come to see. **H. J. HESS** WATERLOO, IOWA.

SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

THE FARMERS' SHORT-HORNS

MILKING SHORT-HORNS. Cows that have made a pound of butter a day under official tests. Bulls which carry strong milking strains and are good Short-horn types. Have extra good young stock from these animals for sale. Address
J. C. CHARLSON, - Leland, Iowa.

Short-Horn Bulls for Sale I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address
PERRY O. BROWN, Lamoni, Iowa.

15 SHORT-HORN BULLS

ALL blocky Blood Reds, 10 to 14 months old. Address J. E. BARR, R. F. D. 4, Davenport, Iowa, successor to I. Barr & Son.

7 GOOD YEARLING SCOTCH AND Scotch-Topped Short-Horn Bulls

FOR SALE at the Pike Timber Stock Farm. Address Davenport & Mack, Belmond Iowa.

1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

WAY SIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE, - - Mt. Vernon, Iowa.

LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100 Are of the Brawith Bud, Princess Royal, Alexandria and Athene families. Are priced to sell. Come and see or write.

R. E. BALDWIN
Osceola, Clark Co., Iowa, on C. B. & Q. Ry.

Short-Horn Herd Bull

FOR SALE—Earl of Linwood 306024, roan, calved Oct. 22, 1907. Sire Matchless Robin by Imp. Cock Robin; dam Imp. Belle of Ordens. Earl of Linwood won 9 in class of 33 bulls at Chicago, 1908. Weighs 2,000 pounds in breeding condition. Absolutely sure, and has a kind disposition. Sires excellent calves. Also 13 months' old red calf for sale. Prices right. Address
F. P. GREENWALT & SON, MT. AUBURN, IOWA

FOR SALE, PURE-BRED

SHORT-HORN bulls fit for service. Got by Grand Champion 357001, and the dams got by Bridegroom 224977, and he got by Imp. Merry Hampton 132572 (73063). E. C. Matthiesen, Keystone Stock Farm, one mile north of Bryant, Iowa.

EGGER'S SHORT-HORNS

THE real beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and address J. F. EGGER & SON. ROCA, NEB.

FOR SALE 1 red roan yearling Scotch Short-horn bull, 1 eight months old black Percheron filly, 1 three-year-old French Coach stallion, 6 choice, big-type Poland China gilts. Address Henry Moll, Garner, Iowa.

SHORT-HORN CATTLE.

ROYAL SOVEREIGN

ONE of the greatest Scotch bulls of the breed is the sire of the young bulls we have for sale. We maintain a herd of heavy-milking cows that are great feeders. We name farmers' prices on the young bulls. Write us. Address

L. Chestnut & Sons Geneva, Neb.

SHORT-HORNS

FOR SALE OR TRADE

MUST sell by March 1st. My herd of 15 head of Short-horns, 4 cows, 3 three-year-old heifers and 2 choice yearling heifers, all in calf to Count Rosemary, the pure Scotch herd bull. 5 summer calves, 2 bulls and 3 heifers. Will take high-grade draft horses, mare or geldings, or give terms. No land.
C. H. DRAKE, HAZLETON, IOWA.

FIRST CHECK of $175.00 takes three roan recorded Short-horn heifers from one, two and three years old. P. Bischmann, Monee, Illinois.

SHORT-HORN MALES Yearlings all sold, have a nice lot of 1912 calves, redsand roans. J. T. Swearingen & Sons, Hedrick, Ia.

RED POLLED CATTLE.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
FRANK J. CLOUSS, Barnum, Iowa.

WILES' RED POLLS

SOME very choice bulls, good even fleshers, sons by Happy Jack 2d and all out of choice milking dams. The breeding is first class and the prices right. LUKE L. WILES, Plattsmouth, Neb

GALLOWAY CATTLE.

PURE-BRED GALLOWAYS

Bulls, Cows and Heifers for sale at farmers' prices.
JAMES P. MILLIKEN, MEDIA, ILLINOIS
Main line Santa Fe Railroad.

IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address, C. S. Hechtner, Chariton, Iowa.

BERKSHIRE SWINE.

BIG-TYPE BERKSHIRES.

5 JULY boars, $15; 5 April 1911 sows to farrow in April, $50 each; 2 show sows as above, $60 each; 5 yearlings, $40; 10 spring pigs, $30. Bred to show boar. W. A. O'Brien, West Wind Farm, Route 2, Reedsville, Wisconsin.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa.

MULE-FOOTED SWINE.

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resis disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigrees furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

Mule-Foot Hogs
Oldest breeder in the State. Pedigreed stock for sale.
Samuel Johns, Sec. A., Wilmington, Ohio.

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LARGE YORKSHIRES Choice breeding stock from state fair prize winners. Gilts bred for May farrow to an importe boar $25 each, registered. Pigs, all ages, either sex Address W. C. Cook, R. 42, Box 22, Ada, Michigan

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C. C. EVANS
AUCTIONEER

CHESTER White and farm sales a specialty. I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,
C. C. EVANS, North English, Iowa.

COL. H. L. IGLEHEART

Elizabethtown, Kentucky

LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

LIVE STOCK AUCTIONEERS.

FRED REPPERT LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.
DECATUR, IND.

N. G. KRASCHEL
HARLAN, IOWA.
LIVE STOCK AUCTIONEER

I am conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

H. S. ALLEN
RUSSELL, IOWA.
PEDIGREED LIVE STOCK AUCTIONEER

THOROUGHLY POSTED. Fine stock sales booked in four states. Also public sale of farms at auction. Write for prices.

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I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.
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COL. G. W. HALLER, Spencerville, O.
Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates.

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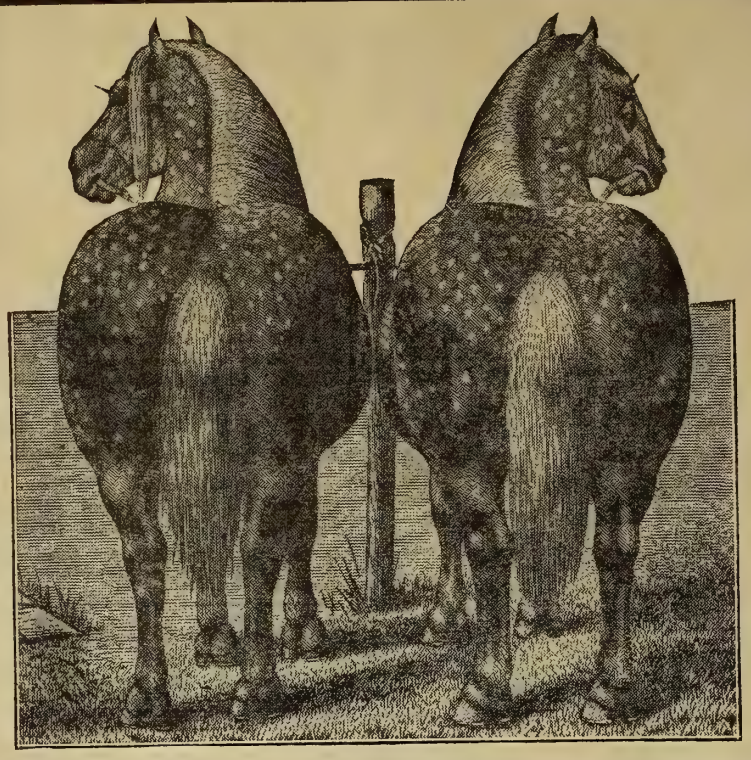

DANNEN & LOWREY WILL SELL

50 Head of Percherons

AT MARSHALLTOWN, IOWA

THURSDAY, MARCH 6th

THIS offering comprises some of the best in breeding and quality ever put through a public sale, some of them having been shown at Des Moines, Sioux City, Dakota and Minnesota State Fairs, winning everywhere. Among them is the four-year-old stallion, Jambameau 82337 (83856), first-prize winner at the great show at Minneapolis, 1912. This offering is young, clean and nearly all imported. Their pedigrees inspected and passed by the French and American governments. Thirty-eight of these are mares, and all old enough are bred to the best imported sires. All stallions offered, with one exception, are imported, and were selected with the same care we would use in picking one for our own use. Address for catalogs

R. C. DANNEN Marshalltown, Iowa, or H. C. LOWREY, Nevada, Iowa.

Sale to be held in Harmon's sale barn, Marshalltown. Auctioneers, Col. P. McGuire, Col. John Garris.

CHESTER WHITE SWINE.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. When writing mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa.**

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address
ALDEN ANDERSON, ELLSWORTH, IOWA

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.
S. J. PHILSON, - Harlan, Iowa.

CHESTER WHITE BOARS

OF early spring farrow and of best breeding for sale at moderate prices. We are able to furnish them at the lowest possible cost to you. Address
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I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address
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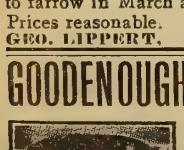

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FALL and winter yearling sows bred to get of Erlanger 1039. Fall sows and male pigs for sale. Prices reasonable. W. M. Sipherd, Grand River, Ia.

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80 PERCHERON AND BELGIAN STALLIONS AND MARES 80

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(few higher) than are **sold** to **stock companies** for $4,000. Imported mares, $700 and $1,000. Iams gives **60 per cent** breeding guarantee; **pays freight** on horse and **fare** of one buyer. He can furnish $1,500 insurance. **Iams buys** and **sells every stallion himself. Saves buyers $1,000 in middlemen's profits.** He buys stallions by **"train load."** He speaks languages—(saving 20 per cent). He is **not** in the **"stallion trust."** No **partners** to share profits. He **"pays cash"** for his horses—and sells **"topnotchers" by "hot advertising"** and having **"the goods." "Big Ikey,"** leave your "happy" home and buy a **"top"** stallion or pair of **imported mares** (of **Iams**) that bring colts that sell at **$500 each. "Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American full bloods"** of **questionable breeding.** Buy an **imported horse** of **Iams,** the **"reliable horseman."** (Then we will **"all wear diamonds."**) Iams' **"selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog.** Iams won't let you go without a **peaches and cream** stallion or mare. **"He sells the horses."** Iams' guarantees are backed by **"half million dollars."** References—1st Nat'l and Omaha Nat'l Banks, Omaha; Packers Nat'l Bank, So. Omaha; Citizens State, 1st State and St. Paul State Banks, **St. Paul, Neb.** Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

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35 Head of Jacks

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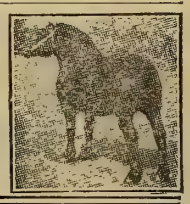

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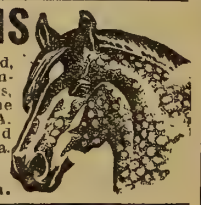

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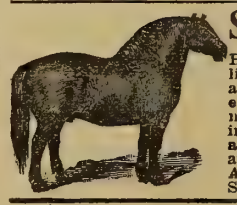

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We have all ages. Write for catalog, prices and terms.

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J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.

NORTH & ROBINSON CO.,

IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE STALLIONS AND MARES.

50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of Imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

NORTH & ROBINSON CO., Grand Island, Nebraska

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA.

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 80 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

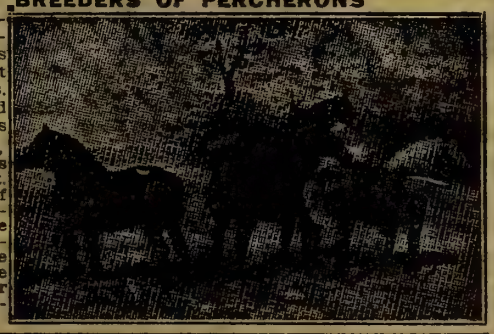
JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



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are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action, size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, DE KALB, ILLINOIS

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of **PERCHERON** stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

FAIRVIEW STOCK FARM

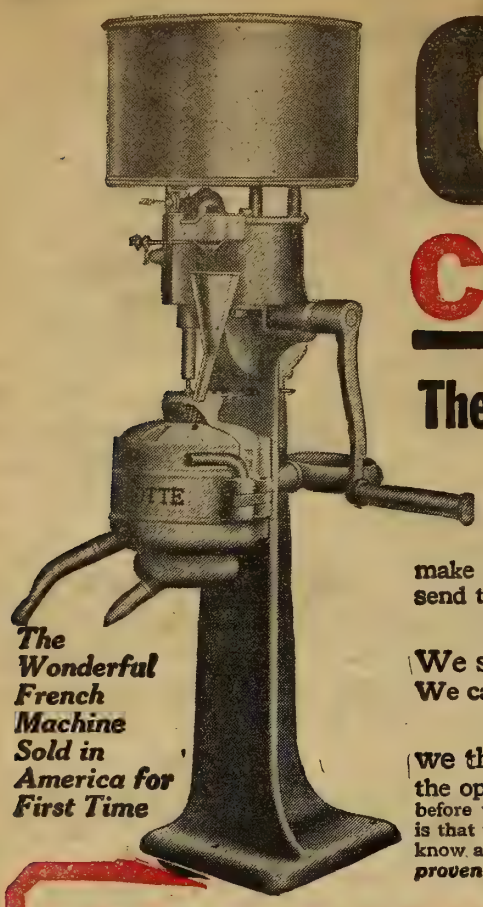
PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK, - - LITCHFIELD, NEB.

JACKS AND JENNETS

One of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. Reference: The banks of Lawrence, 40 miles west of Kansas City. Address Al. E. Smith, Lawrence, Kansas



The Wonderful French Machine Sold in America for First Time

GREATEST
Cream Separator Offer!

The Melotte Cream Separator—Guaranteed for 15 Years

The Genuine French Melotte Sold in America for First Time

This is positively the first bona fide, no-money-down offer ever made on any cream separator. No manufacturer of any cream separator ever ***dared*** to make such a startling offer before. All others who have ever ***pretended*** to offer you a free trial or to send their separator without any money down have taken care to get ***something*** out of you first.

But we don't want ***anything.*** All we ask is your simple request. We send the cream separator direct to your farm absolutely without any money down. We can afford to do this because the Melotte sells itself. It has an absolute self-balancing bowl.

We want you to read every word of this great offer. It is an offer which, we think, proves our ***absolute faith*** in the great ***Melotte Cream Separator.*** You are given the opportunity of seeing just how much cream this marvelous separator will extract from your milk before we ask you to send us one cent. You never saw another manufacturer who was so open-handed in his offer. The reason is that no other manufacturer ever wanted you to know ***all*** about his machine ***before*** paying him anything. We want you to know all there is to know because we know that we have the separator that is right. The principle of the Melotte has been ***proven*** to be right in the greatest dairying countries in the world. Now, read every word of this wonderfully liberal offer.

Sent Without a Penny Down

30-Day Free Trial!

Your simple word that you would like to see this cream separator in your own barn or dairy house brings it to you instantly. We send you the Melotte without a bit of quibbling or hesitancy. We neither ask nor want you to send a penny. We don't want a cent of your money. The Separator goes direct to you. You set it up, give it a thorough test with the milk from your own cows. We give you a free trial that *IS* a free trial in every sense of the word. It is a free trial because we don't ask you to pay us any money down—there is no C. O. D.—no lease nor mortgage. You keep your money right in your own pocket. You pay nothing to anybody.

Some people PRETEND to give you a free trial, but they ask you to give them your money first. We are not afraid to let our separator speak for itself. Test the Melotte Cream Separator in every way, watch your profits go up, watch the increase of the amount of cream, then, if you do not believe that you ought to have a cream separator, just send it back at our expense. If, however, you decide to keep this genuine Melotte—the peer of all cream separators—the separator that gives you greater profits than any other—makes every cow you have give you 100% greater value and insures you greater profits from your dairy than you ever made before—we will allow you to keep it on extremely easy

MONTHLY PAYMENTS

These payments are so small that you will hardly notice them. You only pay out of your increased profits. You don't need to be without a cream separator when you can have the separator right in your dairy house while you are paying for it. In reality you do not pay for it at all. It pays for itself.

This is what we want to demonstrate to you. We want to demonstrate and prove beyond all peradventure that the Melotte Cream Separator does pay for itself. Only a few months' use of a Melotte Cream Separator and you will be satisfied that this statement is ***absolutely correct.*** A few months and the separator has paid for itself. It does not cost you a penny because the increased amount of cream has paid for the machine.

Send the Free Coupon now —Today!

Don't delay

We don't want to tire you with a long discussion of how our cream separator is made here. You can best understand this if you will let us send you our free catalog. Besides this free book we have another book which we should like to put into your hands.

Valuable Book
"Profitable Dairying"
Sent FREE!

Send Today! It Brings the FREE DAIRY BOOK

Just ask for this book and it will be sent to you. It is free. Place your name on the coupon, cut it out and mail it at once. Then we will send you our great free book, ***"Profitable Dairying,"*** telling you everything about cows and dairying, butter and cream—how to feed and care for cattle, how to make them twice as valuable as they are now, how to make more money than ever before out of your cows. This book is written by two of the best known dairy scientists in the country—Prof. G. H. Benkendorf, Wisconsin Dairy School Agricultural College, Madison, Wis., and K. L. Hatch, Winnebago County Agricultural School, Winneconne, Wis.

We will also send you Our FREE Catalog, describing fully the great Melotte Self-Balancing Bowl Cream Separator and telling all about our liberal terms. Find out all about our liberal terms. Find out about these terms anyway, even if you don't expect to buy a cream separator *just now.* Remember—no money down, free trial and easy payments—and we let the separator tell its own story. You see with your own eyes why we can afford to guarantee this separator for 15 years. The most sensational offer ever made in connection with a cream separator. Our catalog tells all about it. Don't delay. **Sign the coupon RIGHT NOW.**

BABSON BROS., Agents in U. S.
Dept. 4472, 19th St. & California Ave., Chicago

CUT OR TEAR OFF ALONG THIS LINE

BABSON BROS., Agents in U. S. Dept. 4472, 19th and California Ave., Chicago, Ill.

Kindly fill in this coupon and we will send you free and prepaid our book "Profitable Dairying" by Prof. G. H. Benkendorf and Prof. K. L. Hatch, the Wisconsin Dairy Experts. We will also send you our free Melotte Self-Balancing Bowl Cream Separator Catalog, explaining our do-money-down and easy monthly payment offer on Melotte Cream Separators.

Your Name.....

Address.....

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No letter necessary just sign and mail the coupon TODAY

Melotte Runs 54 Years!!

At the Melotte works one of the Melotte Separators has been working every day (driven from the shafting) since Nov. 5, 1900, running 10½ hours per day—or 19,687 hours at a cost of only $7.50. Reckoning that a farmer works his separator one hour per day, the 19,687 hours represent (on the farm) a period of 19,687 days, or nearly 54 years. Therefore, the total cost of maintenance for the Melotte separator for 54 years, inclusive of oil, will be only $7.50. At great trials of separators held at Boulogne, France, Oct. 5 to 9, 1905, under the auspices of the Federated Agricultural Societies of the North, the Melotte easily vanquished all other separators—proving the cleanest skimmer and taking less power—and was **Awarded the Gold Medal.**

World's Grand Prize Winner

Here is a small Percentage of the First Prizes the Wonderful Melotte Has Won:

1888—Brussels—International Exhibition—Progressive Prize.
1889—Tongres—First Prize.
1890—Brussels—First Prize.
1891—Louvain—Diploma of Honor.
1892—Bouchout-lez-Anvers—First Prize.
1893—Theux—First Prize.
1894—Weert—First Prize. Medal of Higher Merit.
1895—Vienna—First Prize.
1895—Drontheim—Silver Medal. First.
1896—Patay—First Prize. Gold Medal.
1897—Rennes—First Prize.
Brussels — World's Exhibition. First Prize.
1898—Lyons—First Prize.
London—First Prize.
1899—Poitiers—First Prize.
1900—Northants—First Prize.
Paris Gold Medal and First Prize.
1901—Vise—Diploma of Honor.
Marchin—First Prize. Gold Medal.
1902—Prague—Diploma of Honor. First Prize.
1903—Reggio-Emilia—Diploma of Honor. First Prize.
Aussig—Gold Medal. First Prize.
1903—Luxembourg—Gold Medal. First Prize.
Reims—First Prize.
London—Gold Medal. First Prize
1904—Heyst-Op-Den-Berg—First Prize. Gold Medal.
1904—Vouneuil S Vienne—First Prize.
St. Louis—First Prize.
1905—Bombay. First Prize.
Durban. First Prize.
Orleans. First Grand Prize.
1906—Milan. First Grand Prize.
Tours. First Prize.
1907—Amsterdam. First Prize.
1908—Starodour. Grand Prize.
1909—Saint-Gilles-Termonde. First Prize.
1910—Axel. First Prize.
1911—Sinay. First Prize.
Brussels—Grand Prize and First Gold Medal.

And no wonder all these prizes have been won! For the Mellotte is different (and better) than any other separator in the world. The bowl turns on a single bearing and is positively self-balancing. The cream and milk chambers are made of white bath tub enamel—not tin. Bowl self-draining. Get free catalog today.

Test With Other Machines

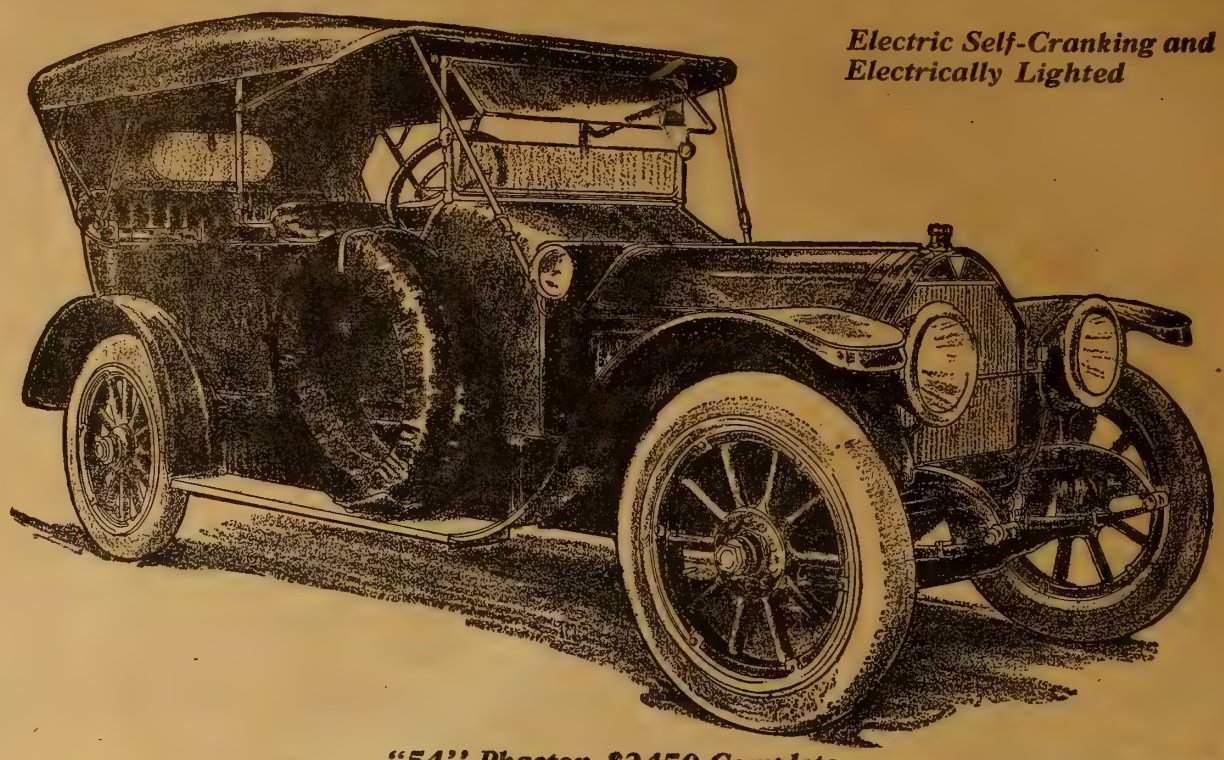
Before you decide to buy any Cream Separator arrange to test a MELOTTE along side of the machine you now think is the best separator in America. We want you to do this. Then there can be no doubt in your mind as to whether you are really getting the best machine. This is the only way to buy a cream separator. Then it will not be necessary to take anybody's word.

You'll know which machine turns easiest—which machine is the best made. You'll know which skims the closest. You'll know which will make you the most money.

Write to us about the MELOTTE and the MELOTTE FREE TEST today. We are the sole factory representatives in America.

The Iowa Homestead

VOL. LVIII. NO. 10 DES MOINES, IOWA, MARCH 6, 1913. WHOLE NO. 2891



Electric Self-Cranking and Electrically Lighted

"54" Phaeton $2450 Complete

These Only Are The Cars You Should Buy

HUDSON MOTOR CARS

While there are approximately 250 different makes of automobiles on the American market, it is not so difficult to choose a car that will prove satisfactory. Your neighbors tell you of their experiences. The dealers speak in highest terms of the cars they sell. You are appealed to from practically every angle to consider the advisability of this car and that car.

But in all this there is apt to be much confusion as to what car can really be trusted unless you bear in mind easily understood conditions that often result in selecting the very car you should not have bought.

If you will bear these facts in mind in weighing the guarantee of each car it will save you much worry.

These Are The Cars You Should Not Buy

Cars offered at a cut price should never be purchased. Just think what effect a cut price has upon the second-hand value of the car when you want to sell it. In reality the apparent price reduction means no more, so far as actual value is concerned, than does the offer of a quoted $25 suit of clothes at $14. The suit never was worth $25, it is out of date or the dealer is losing money.

If the dealer is so poor as a business man that he will sell cars at no profit, he is an unsafe man with whom to trade.

Every time a dealer fails he does inestimable injury to the manufacturer in shaking the confidence of the people of the community in the car and also depreciates the market value of your car.

Be sure also that the manufacturer is prosperous. Be sure he has had years of successful experience. New companies may have a well-designed car, sufficient capital and the intention to give generous values, but are unable to always produce just what they intend because a smoothly working organization of men cannot be quickly perfected.

A Car You Can Trust

Howard E. Coffin, America's foremost engineer, and his board of engineers—48 in all—combined in building the new HUDSONS.

The "37," the four-cylinder car, is a masterpiece of its type. The "54", a Six, is offered as the equal of any motor car ever built at any price.

Road performance, comfort of riding, deep, luxurious seats, small maintenance cost, long service without attention further than lubricating and cleaning are distinctive qualities.

With 48 experts, each a specialist in some feature of motor car construction, you can see how improbable it is that anything essential to value, comfort or service can have been overlooked.

Several thousands of these cars are now in the hands of owners. They are giving satisfactory service over every kind of road. Many have been driven thousands of miles without even requiring the use of a screw driver, wrench or hammer to make adjustments or repairs.

Don't expect to buy a HUDSON at a discount. You must pay just what your neighbor pays—no more, no less.

Send for catalog of either the "37," which sells at $1,875, or the "54," the Six, at $2,450. The prices are f. o. b. Detroit. Or go to a HUDSON dealer and he will prove their value in a hundred different ways.

Bodies for either car are furnished in Touring car, Phaeton—five-passenger—and two-passenger Roadster. Cars are fully equipped with electric self-starter, electric lights, speedometer, clock, windshield, top, demountable rims, extra rim, tire holder and everything needed ready to operate.

Important Notice.

All the leading makers find this year, because of the unusually fine weather of the past winter, that they have more orders than they have cars.
Therefore whatever car you choose should be ordered now. Otherwise you will not be able to get any of the makes it would be safe for you to buy.

See the Triangle on the Radiator

Hudson Motor Car Company

7615 Jefferson Ave., Detroit, Mich.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 6, 1913.

Proves That Dairying Is Profitable

How Col. W. H. Phelps, Member of the Missouri Legislature, Has Established a Model Farm Which is an Object Lesson of Success.—*By A. A. Coult.*

ONE of the most modern dairy farms of the grain belt has been established near Carthage, Mo., by Col. W. H. Phelps, a member of the state legislature and a well-known stockman. Dr. A. Knight, state veterinarian and dairy commissioner for British Columbia, recently spent three days at the farm, studying the methods of housing the cows, caring for their health and handling the milk. He came to Missouri to study the intradermal test for tuberculosis, as Missouri leads all others in this country in that particular line of precaution against the disease. He requested the privilege of making an extended visit at Colonel Phelps' Meadowmere Dairy Farm, as it had been especially called to his attention. He now is en route to his home at Victoria, British Columbia, and is going to advocate to the dairy interests in his country some of the ideas he saw demonstrated at that farm.

During October, 1911, Dairy Commissioner Cutler spoke at the Jasper County (Missouri) Corn Carnival and pointed out to the farmers the benefits which would be gained by each one individually, and the community at large, if they would raise more dairy cattle on their farms and sell the cream or milk and save the fertilizer. As Colonel Phelps was developing a new farm near town, he was shown that the dairy business would build up the farm faster than any other method of operation, and he promised to go into the business on a large scale if a creamery could be obtained for Carthage. The necessary arrangements were made for starting a creamery and Colonel Phelps began to build dairy barns, silos and pig pens. He sent expert judges of Jersey cattle throughout the state to buy the best that could be obtained, and now owns a herd of seventy-nine head, fifty of which are registered. His milking barn accommodates forty cows and he keeps the dry cows in a barn on another farm. The calves and young heifers are housed in another building on the main farm. He is now making preparations to build another large dairy barn on his farm. He has all of his stock tested for tuberculosis. Every convenience for doing the work has been installed and the cows are milked by machinery, at the rate of twenty cows an hour. The litter is carried out in a large metal carrier suspended from a track back of the cows, to a manure spreader shed several feet removed from the barnyard. The heavy manure is hauled to the field and distributed every day. The liquid manure drains off through sewers into a concrete well outside of the barnyard, so that not a drop of the valuable fertilizer is lost. From the well it is pumped into tank wagons and sprinkled over the alfalfa fields.

THE MODERN WAY OF CLEANING OUT A BARN; THE LIQUID MANURE DRAINS TO A WELL OUTSIDE.

The milking barn is 101 feet long by forty-two feet wide, fourteen feet high to eaves and thirty-three feet to gable. The loft has space for 150 tons of loose hay, with modern facilities for elevating the hay into the loft and for distributing it to the cows as they require it. The walls of the barn are of rock and cement, eighteen inches thick, set with numerous windows and doors. The barn is ventilated by a system which provides plenty of pure air without causing any drafts. At the west end of the first floor is the office, where the daily record of milk production and per cent of butter fat from each cow is kept, together with the cost books of feed, etc., and next to the office the room containing the machinery necessary for separating the cream, making the individual butter fat tests, and for running the milking machines.

Each cow's milk is weighed as soon as drawn, a sample taken for the tester and the remainder immediately run through the cream separator. The cream is placed in the refrigerator and the skim milk is fed to the calves and pigs before it gets cold.

Two large silos on the north side of the barn have a capacity of about 300 tons of ensilage. The silos connect with the barn through a feed room, so that the entire work of feeding, watering, milking and cleaning can be done without going outside of the building.

The water supply for the farm is obtained from a deep well, pumped into a large water tank which is high enough to supply by gravity the water to the farm residence, and all the main farm buildings.

As there was more rock on the farm than could be disposed of without large expense, Colonel Phelps used part of it in building about half a mile of stone fences around the barn lot. The fence is four feet high and eighteen inches wide. The setting of the stone barn surrounded by stone fences makes an attractive picture and Meadowmere Dairy Farm has suddenly become the show place of Jasper county and surrounding country. Large numbers of visitors in automobiles and carriages visit the farm on Sundays and a week ago Colonel Phelps had to leave his own automobile outside, as the yard was filled with conveyances containing sight-seers.

But Meadowmere Dairy Farm has also become a demonstration farm, for Colonel Phelps has shown the farmers that the rock-studded, sour land which has not grown a good crop of weeds for years can be made very fertile by removing the surface rocks, putting plenty of ground limestone on the land to cure the sourness, and underdraining it to keep it in good

(Continued on page 37.)

COL. W. H. PHELPS AND SOME EVIDENCES THAT SCIENTIFIC DAIRYING IS ALMOST CERTAIN TO BRING PROFITABLE RESULTS.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

SUBSCRIPTION RATES—Single subscription, $1.00 a year. In clubs of ten, 75 cents a year and an extra copy to getter up of club. In clubs of fifty or more, 30 cents a year. Single subscription three years in advance, $1.50; five years in advance, $2.25; ten years in advance, $4.00. Subscription price in Canada, $1.50 a year. Remit by draft, registered letter, postoffice or express money order. In changing address, send both the old and new addresses. In renewing, give the same name and initials as you gave before or state both the old and new names, and explain why you make the change. In case of errors or failure to receive the paper within two weeks, promptly notify the publisher. Address all letters to

THE HOMESTEAD COMPANY,
Des Moines, Iowa.

A RAPID RECOVERY.

Four weeks ago today (Monday) The Homestead printing plant was partially destroyed by fire, the building gutted and the mechanical departments put out of commission. The fire was a serious one. It came in the midst of the busiest season, when the largest papers of the year were to be issued and everybody connected with the establishment was working at top-notch speed. For a time such a setback as must discourage even the most courageous seemed inevitable. And yet in only four weeks' time we have made such rapid headway in recovering from the disaster that already not only is daylight visible, but the sun has risen high above the horizon. The building is once more under roof and enclosed and the next fortnight will see it in as good condition as before the fire. Car loads of fine new machinery and type are being unloaded and hauled to the building and the last of the present month will find us better equipped than ever before. Plans are already well under way for a Homestead in the future which shall eclipse, in every department and particular, The Homestead of the past. I am duly thankful, indeed, that it has been permitted us to make such rapid headway in recovering from a blow which seemed truly staggering as I stood, in the barren bleakness of a winter morning, and watched the flames on their work of destruction.

The worry and work caused by the fire of February 3d have been more than offset by the hundreds of cheering, consoling letters received from loyal friends and well wishers. I shall never forget these manifestations of friendship. I have before me one of the latest to be received, a letter so characteristic of many others received, in its wholesome and inspiring cheer, that I cannot refrain from printing it for the enjoyment of others:

Wyoming, Iowa, February 22d. Dear Mr. Pierce: Herewith find check to pay my renewal and five new subscribers for three years each. I was very sorry, indeed, to read of The Homestead plant being burned, and am glad that it is to be rebuilt at once, as The Homestead is the best farm paper published. Every farmer in the grain belt ought to take The Homestead. Now, I am interested in other things than the Almighty dollar. I believe in education, in conservation, in good roads, not the so-called hard roads, but dirt roads constructed on a scientific basis. That is, with the water drained out or kept out from under them. In order to do this it will be necessary to establish a thorough system of tiling. The road builders and the people of Iowa generally must combine to establish a thorough tiling system and then have the surveys made by educated surveyors or persons who know how. All these things will make for the greatness of our beloved state.

Yours truly,
A. G. Alden.

Such letters as Mr. Alden's are more comfort and assistance than their writers can possibly realize, and for all such received I am indeed truly grateful. The recent disaster has disclosed many, many friends whose heartfelt words of sympathy shall remain with me long after the fire has become only a faint and indistinct memory. A friend in need is a friend indeed, and I am truly thankful that so many friends have so cheered and consoled me with their words of sympathetic well wishes. I shall strive ever and always in the future to deserve their continued confidence and support.

Sincerely yours,
JAMES M. PIERCE,
Publisher The Iowa Homestead.

A STORY OF SUCCESS.

That the Northwest and the Pacific West have been built up largely by the exploitation of instances of exceptional success is generally conceded. For every such instance duplicates could be printed showing even more striking success in the ordinary lines of farming in the grain belt. This is coming to be realized more and more, so that men are not being lured great distances by tales of fortunes won, but are devoting themselves more and more to realizing the full possibilities of land nearer home. All this by way of introduction to a story of success on a farm in northern Iowa, as printed recently in one of the prominent dailies of the state:

Nearly thirty-five years ago two men, brothers, came to Garner from Clayton county, Iowa, and bought a quarter section of land. They paid $15 per acre for it, a high price for those days, because it was close to a little town and because forty acres of it were under cultivation at the time. After a few months another brother came "to see what the boys were doing out west," and after he had looked around a little they asked him what he thought of the country. He replied that if one had his land paid for he might, by hard work and careful management, make a living. So thought one of the two who came first and he stayed. He is here yet and scattered around over a township or two are numerous sons and daughters on farms of their own which they were helped to secure by the father, who still owns something more than two sections of highly improved Hancock county land, besides large tracts located elsewhere. Hard times? Well, what would they be called when one didn't write a letter to the folks "back home" for six months because it required a three-cent stamp to pay transportation charges? Wheat dropped to twenty-eight cents a bushel once and had to be hauled to Clear Lake, sixteen miles away, at that. As late as 1896 corn had to go at seven cents a bushel unless one happened to have stock to which it could be fed. In those earlier days there was little thought of advance in land, the main theme being the making of a "living." The father and mother in this case stacked the wheat several seasons while the little tots played around in the field. Will any young farmer of this day find it possible to possess himself of 2,300 acres of land, the greater part in as fruitful a portion of Iowa as this, within the next thirty-five years, building it all up from only enough capital to buy a quarter section?

We are not inclined to agree with the statement that the possibilities within the next thirty-five years will not be as great as within the same period of time in the past. Thanks to the rapid spread of agronomic ideas and the introduction of mechanical devices, making every ounce of energy more productive, the rewards of farming are yearly becoming greater. We do not believe, moreover, that the top notch price for land, either in Iowa or elsewhere throughout the grain belt, has yet been reached and are free to pin our faith to a continued advance which shall serve fully as much as an incentive in the future as any record of achievement in the past now serves.

BREEDING BEEF CATTLE ARE NOW APPRECIATED.

Twelve years ago there were approximately 50,000,000 beef cattle in the United States. Since that time our population has increased 20,000,000 people while the number of beef cattle has been reduced to approximately 35,000,000 head. With these facts staring us in the face no difficulty should be experienced in offering a satisfactory explanation as to why good beef steak is high in price. The why and wherefore of this reduced cattle supply is another story and a number of causes are at the bottom of it all. The main one, however, is simply this: That the farmers of the United States particularly those of the corn belt have shown as yet no steadfast adherence to a fixed policy in farm affairs. High-priced grain means that good breeding stock is in many instances sacrificed while in turn a large cereal crop like that of 1912 stimulated the demand for feeding cattle. The pendulum swings one way for a time and in the opposite direction almost with a change of season.

An incident occurred in the state of Indiana last week that we believe will strengthen the faith of those who have persistently advised farmers to hold on to their good breeding cattle. We refer to the sale of seventy-six head of Hereford cattle by Warren T. McCray for the sum of $40,000, an average of $525 per head. The bulls in this sale averaged $740 per head and when the last one was knocked down to the highest bidder the demand was not fully met. This was foundation stock to be sure and the animals in the offering were of the most select and modern type. The small steer feeder on the farm with his grade herd may not consider himself in any way interested in an incident of this kind, but as a matter of fact every man who proposes to adopt a fixed policy in the production of cattle is more or less interested in the value of the highest class of pure-bred beef cattle. The blood of the various males in this sale will by no means in the future be wholly confined within the limits of pure-bred herds, but will be disseminated as the years go by with the result that the standard will be raised in the case of thousands of cattle intended for the block only.

We have always contended that the breeding of pure-bred live stock was the highest and most ennobling type of agriculture that could be carried on by any people. While at times men grow discouraged when they are obliged to sacrifice the very highest type of pure-bred cattle at beef prices, yet in the end those who persist in using the good blood and in keeping up the pedigrees of their cattle are sure to meet with financial success. While it cannot be expected that every man who is raising pure-bred cattle is going to sell his surplus at an average of $500 per head, yet as we see it a tremendous effort will be made during the next ten years as we are catching up with our cattle supply to improve the quality of the increase. If we are to come back to our normal supply of 50,000,000 beef cattle and to increase that number proportionate with the increase in population we should coincidental with this increase place much more emphasis on the use of the right kind of sires in grade herds in the future than has been the case in the past. We have faith enough in the progressive spirit of the corn-belt farmer to believe that this emphasis will be so placed and it means that those who have the high-class pure-bred cattle to fill the demand will be amply rewarded for their foresight and for the faith they have shown in the permanence and stability of the cattle industry. In turn it is an unequaled opportunity for those who have the right kind of cattle to start off the cattle industry now that it is at low ebb on a standard that far exceeds and excels anything that has been maintained in the past.

WHEN TO TURN CATTLE ON GRASS.

A Wisconsin subscriber, Mr. C. J. Griffing, gives his views on the question of turning live stock to grass, in the following communication:

I have a neighbor who turns his stock into pasture on a certain date every year. My experience proves this to be a very foolish practice, for conditions which are favorable for pasturing on a certain date one year will not exist on the same date the next year. We cannot go by dates in this matter and the safest way is to see that the land is in fit condition. In the fall, as soon as the crop is removed from the field, I turn the stock into the stubble. Here they get good feed and the regular pasture gets a rest. Thus it gets a chance to come up so that there will be a good winter protection. The stock can be turned onto such a pasture as early in the spring as the ground is firm enough. If the ground is wet and mushy much damage may be done and the pasture even ruined by the roots being cut and trampled by the sharp hoofs. Where there is much of the old grass on the pasture in the spring it is easier to make the change to pasture, as much of it is eaten with the new grass, and bowel trouble does not result, as it is very liable to when sudden change is made to new grass. The stock continue also to eat a little hay at the stables, which they will not do if pure green grass is to be had. It is important that the change be gradual, for if the bowels are thrown out of order the result will be a loss of growth, gain or production. The pasture should be allowed a good start before the cattle are put upon it, for if they start out when the pasture is poor the chances are that it cannot recover all summer. It never pays to overstock the pasture, for a close-cropped pasture dries out and becomes practically worthless when dry weather comes. Stock does a great deal of damage tramping and roaming about on a close-cropped pasture, thus adding "insult to injury." When the pasture is in this condition they are also hard upon the fences, leaning and reaching over to get the longer grass on the outside. A good pasture is one of the most valuable assets of any farm, and it pays many times to take good care of it.

While we doubt if any stockman will oppose the plan here suggested by Mr. Griffing, namely, that of allowing the soil to get firm before turning out live stock, yet we know that some will object to the plan of allowing grass to get a good start before doing any pasturing. We have known so many instances where cattle that were never turned off the pasture during the winter or spring were maintained in the pink of condition that something may be said in favor of not letting the grass get too rank before turning in. On the other hand, we have known cases where cattle were 100 pounds lighter at the end of the first month of grazing than they were when turned on grass, this being due to the abrupt change in the character of the ration.

We shall consider it a favor if some of our stockmen readers will give their views on this important matter. The issue is whether we should or should not keep the cattle out of the pasture until the grass has made a considerable start.

BELIEVES IN SHOW CORN FOR SEED.

Mr. Ray Redfern, of Des Moines county, Iowa, has clearly defined views on "type" in seed corn selection both for show and for seed purposes. He believes that in the main the best samples of show corn are alike superior for seed purposes. On this important phase of the corn question he says:

A question often asked at corn shows, institutes and elsewhere is, "Is the corn that wins the ribbons the best corn for the farmer; will it yield more than the samples not winning a place?" With few exceptions, if rightly placed, it will. What we want is the largest number of bushels of matured corn per acre, and the judge, in making his placings, looks for the samples that indicate these qualities, as those that show breeding, are uniform in size and shape of ear, well matured and heavy, good and full in central portion, indicating a strong constitution, good depth of kernel and uniform, with large, bright germs, which give the growing stalk a good start.

Corn to win in the shows today must have some brains and breeding back of it and most men who are breeding corn select from the rows that produce the most bushels of good quality corn, and in selecting the seed from these rows they select the ears that nearest approach the type that wins in the show. While the score card is not usually used by the judge, yet the main points it emphasizes is emphasized in the placing of the samples. The influences it has exerted over the breeder and grower is responsible in a large measure for the increased yield in the best varieties and for the splendid samples of fine, well-matured corn seen at the corn shows of today.

The men who are raising the samples that win are men who, as a rule, are producing large yields on their farms, much larger than the average. Seed sold and distributed from these men to farmers and neighbors often yields as much as one-third more than the corn they are growing

I have in several instances received the unsolicited testimony of neighbors and men who have purchased my seed that it yielded as high as twenty bushels per acre more than the corn they were growing under identical conditions.

The man who picks out and exhibits a sample of corn good enough to win in the large shows is of itself evidence that he produced a good yield of matured corn and that he planted well-bred seed, the kind you must plant if you want to win or produce exceptionally large yields.

In my breeding plot of 1906 Row 28 was one of the largest yielders and produced an exceptionally large number of well-matured seed ears, showing excellent breed type, and the next year three acres planted from seed from this row under field conditions yielded over 100 bushels per acre of fine corn and again a large per cent of seed.

Over 75 per cent of the corn I have shown that has won in national, state, in short courses and local shows was from this high-yielding strain of corn, which further goes to prove that the corn of the type that wins the ribbons does yield and is profitable for the farmer to plant.

It cannot be denied that corn shows and expositions have resulted in increasing the yield of corn in those communities that have given the most attention to this phase of agricultural education. Possibly at the outset too much emphasis was placed on outward appearances, but year by year it has been found that corn carefully selected in accordance with certain standards gradually crept up in yields. In due time another forward step has been taken. This involved the planting of individual ears so that seed could be selected from the high yielders only. According to the experience obtained by Mr. Redfern

quality from the standpoint of the showman is very closely associated with yielding ability because he says that from his highest yielding single row he has obtained the best show corn.

EARLY HOG PASTURE.

A subscriber, Mr. L. J. Dewall, asks for information in regard to early hog pasture. He expects to have about one hundred spring pigs and desires to sow crops so that he will have plenty of pasture up until the middle of September.

Two plans may be followed in establishing a hog pasture. One would be the sowing of about three bushels of mixed spring grain composed of wheat, oats and barley. In conjunction with this, seven or eight pounds of rape should be seeded per acre. Such a mixture if seeded early would in the course of five or six weeks after seeding be ready for pasturing. If the larger hogs could be kept off until a growth of six or eight inches had resulted, so much the better. Rape is not a rapid grower when sown in conjunction with a nurse crop, but as the cereals are pastured off the rape will come on and when it once gets a good start it will furnish a very large amount of pasturage. According to this plan pasture would be obtained earlier than in any other way.

The second plan would be to use rape alone at the rate of seven or eight pounds per acre. It should be seeded early in the spring after thoroughly preparing the seed bed. In all probability it will pay to wait until the crop makes a growth of eight or ten inches and after that point a five or six-acre patch of rich ground will likely carry through one hundred growing shoats. It is just possible that at times it will pay to turn the hogs out for a week or ten days in order for the crop to catch up, as it were, and with a little precaution of this kind rape will furnish a large amount of good food up until the period of freezing weather in the fall. While rape might not furnish as early pasture as the small grain, yet it will produce much later as it is very hardy and it does not mature, but on the other hand remains green until it is frozen down.

SPRING MARKET FOR FAT CATTLE.

There is some uncertainty among men who want to feed cattle for the spring or early summer market, as to whether conditions warrant the very high prices that have to be paid for suitable feeding cattle at this time. The action of the beef steer market since the first week in February, in its advance of nearly $1 per 100 in that time, lends confidence to prospective feeders, notwithstanding that cattle for feeding have advanced in like manner. Commission men at the markets believe there will be a strong market for fat cattle from now till grass cattle start to market, but they are slow to advise their customers to buy stock or feeding cattle at present prices. The reason for their hesitation in this respect, while believing in strong markets ahead, is the same reason that makes the men want to feed doubtful about the wisdom of the venture, simply that they are unaccustomed to having feed-lot investments mount up into such high figures as they do now.

So far as the determining evidence goes, it is nearly all one sided, and that is in favor of feeding. Not only is cattle shortage admitted to be acute everywhere in this country, by practically all authorities, but also in other cattle-raising countries. Also there is a feeding margin between the prices of feeders and of fat steers that apparently justifies the operation of feeding. According to custom it costs eight cents a pound to make feed-lot gains, but by practicing the improved-feeding methods and rations in vogue in recent years, together with the relatively low price of feed this winter, it might be possible to put on weight at less expense than that. Of course, several weeks of muddy feed lots in March would cut down gains greatly. But admitting that all conditions are favorable, and accepting the old ratio, if it costs eight cents a pound to put on weight, then feeders at $8 and fat steers at the same price balance. At the present time there is a safe margin of profit, according to this line of reasoning, between the cost of feeders and the selling price of fat steers.

Enough of the substantial farmers and feeders have settled the question in favor of feeding for the spring markets to absorb the entire supply of feeding cattle coming to the markets, as fast as they are received. In some cases they are taking cattle away from the killers for this purpose. In a great many instances the buyers are men who have already fed a drove of cattle this winter, and have sold them at a good profit. Having a fair amount of velvet to work on, they are able to view the high prices of feeders more complacently than they might be otherwise. Mr. W. H. Grassmeyer, of Cambridge, Neb., has been feeding 800 cattle this winter, which he is now marketing. He stated in an interview at Kansas City on February 24th, that he has enough confidence in the spring cattle market to cause him to complete arrangements for feeding another string of cattle, after his present lot is gone.

Mr. H. H. Hutchings, of Raymond, Ill., who was in the market a week or two ago looking for stock cattle good enough to go on farm land worth $200 an acre, said after he had made a purchase: "I have been a cattle feeder continuously for fifty years, but today I made a purchase of stock cattle at the highest price I ever paid for cattle." Mr. C. E. Speery, of New Philadelphia, Ill., takes the matter of high prices philosophically, partly because he sold some of his first feeding this winter at $11.10 per 100 pounds. He said, immediately after signing a check for $14,000, in payment for 150 head of feeding steers, bought at the stock yards February 24th: "To be sure, these feeding steers are selling at high prices, but we have got to have them."

CONSERVING HUMAN ENERGY.

Someone calls attention to the fact that the highest form of conservation applies to the world's men and women, more than to her raw material. Possibly the one is the counterpart of the other, because when the drudgery of labor (particularly labor of the farm) is removed from the shoulders of men and the same labor is more economically performed by mechanical power the indirect result must eventually be the conservation of nature's forces.

Under farm conditions there is little danger of making machines out of men, as is often the case in manufacturing, and because of this we must adapt ourselves more and more to the handling of levers rather than to the lifting of loads. It is, therefore, impossible for invention to go too far in lifting the burden from the farmer's shoulders, as it sometimes may in other industries where, as previously intimated, men are changed from humans into machines. In a very important sense every improvement in farm implements contributes to the intellectual uplift of those who take part as operators. More time for leisure does not necessarily mean better opportunity for the development of the habits of indolence, but rather it means better opportunities for social pleasures and intellectual enjoyments.

Because of the great conservation principle involved when men's energies are at stake we consider that a real service is performed when there is spread before our readers each week illustrations, accompanied by suitable descriptive matter, dealing with all types and forms of labor-saving machinery. Viewed in this light we believe that the advertising columns of this paper carry a most important message to the producer. It may be the farm tractor, the gasoline engine for general use around the farm, the automobile, the cream separator, the improved plow, the grain drill, modern fencing, the manure spreader or a thousand and one other articles that are finding a large market in the corn belt, each one an important factor in multiplying the powers of man in his effort to conquer the forces of nature. With this thought in mind, therefore, we commend to the attention of our readers the subject matter contained in the advertisements which appear in this paper. We make the same appeal to those who are not yet in position to purchase as to those who are in the market, because we claim that in an occupation like agriculture, where every man in a way competes with every other man, the individual who falls behind and eventually drops out of line is he who undertakes to do with his hands what his competitor is doing with less energy by the use of some form of modern labor saver.

Upper Wisconsin has a staunch friend in Dr. Cyril G. Hopkins, the eminent soil specialist. Of its opportunities he has written: "For the remaining virgin lands of Wisconsin and other northern states I think we should all rejoice and be exceedingly glad, because when the booms of the irrigation congress and dry farming congress reach an equilibrium which will mean in many cases only after an explosion resulting in loss and privation to many individuals, then the only substantial outlet will be such lands as you are familiar with in Wisconsin."

The best way to spend a reasonable amount of the road tax is in hiring grades dragged when storms make dragging necessary. It is surprising how much good a few draggings will do to an earth grade, the surface is smoothed and when rain falls it soon gets into the ditches and away. The grade that is never dragged is filled with rut holes out of the main track, and these catch and hold the water away from the ditch.

$200

Takes possession of a fertile quarter section in

Southwest Kansas

There's not much vacant land left in Kansas. The five southwestern counties have remained unsettled and undeveloped because of inadequate transportation. The Santa Fe is building new lines to serve this territory, and thousands of farms next season will be put to creating wealth. This is your opportunity to get a good Kansas farm cheap. The terms are advantageous, the results certain.

If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of speltz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

There are some flowing artesian wells in this territory, and everywhere that wells have been put down water comes to within thirty to sixty feet of the surface. Irrigation by pumping will doubtless be commonly practiced, and the tremendously increased yields will pay big dividends on the small investment required for gasoline or oil driven pumps.

The climate is pleasant and healthful. Your boys and girls will find good schools. Churches, social clubs and farmers' institutes are being organized. Rural telephones and free delivery are coming in. In every way development is rapid, and only a few years will give you every advantage that older communities have.

You can secure a quarter section (160 acres) for only $200 down. The price is $10 to $15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

For further information write for illustrated descriptive folder containing map and full details.

Santa Fe Land Improvement Co.
Topeka, Kansas

The Clothcraft Guarantee is as Good as Money

WHEN you buy a Clothcraft suit you *know* you are getting all-wool cloth that is properly shrunk and fast in colors—that the trimmings and workmanship are first-class and that the suit will give satisfactory wear.

Clothcraft goes further than fit, and gives you the qualities on which fit largely depends. These qualities are guaranteed by both maker and dealer and this is the guarantee you will find in the coat pocket:

Clothcraft clothes in many fabrics and styles at $10 to $25 are made for men of taste and judgment.

Clothcraft Blue Serge Special No. 5130 at $15.00 is a suit you should have for spring. You can find it at the Clothcraft store. Look for the Clothcraft label on the coat and the guarantee in the pocket.

If you cannot locate a dealer, write us and we will send you a card of introduction to the nearest Clothcraft store, a style book for spring and a sample of 5130 serge.

CLOTHCRAFT CLOTHES
Guaranteed All Wool At $10 to $25

THE JOSEPH & FEISS CO.
Founded 1846—Oldest American Manufacturers of Men's Clothes
628 St. Clair Avenue, N. W.
Cleveland

THE WEBBER ANGLE SIEVE
Grain Separator and Fanning Mill

Something new — is a little wonder, produces seed grain, separates grain, cleans it and grades it, besides doing work of ordinary fanning mill. Makes perfect separation once through. Write for prices to
HIRSCH BROTHERS
272 Reed St., Milwaukee, Wis.

MARK W. WOODS.

NO LESS an authority than the venerable ex-president of the University of Michigan, Dr. James B. Angell, declared: "The more of a man one is, the more successful will he be in any worthy enterprise." The career of Mr. Mark W. Woods, of Lincoln, Neb., is a splendid illustration of the aptness of this statement. Mr. Woods has made good in enterprises covering such a range of endeavor that his career stands as an object lesson and an inspiration to others.

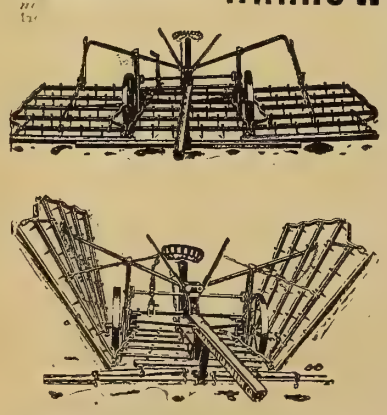
A son of the well-known live stock auctioneer, Col. F. M. Woods, than whom no man connected with agriculture in the grain belt excels in natural talent or in the affection of the people, Mark W. Woods has proven a worthy son of a worthy sire. In the face, at times, of apparently insurmountable obstacles, he has achieved to an enviable position of success, by hewing close to the line of absolute integrity, by a perseverance which has never wavered and by an industry which amply justifies its high reward.

One of Mr. Woods' first undertakings was to introduce and popularize the independent telephone line in his home state, and so well did he work that notwithstanding the most intense opposition from the already established telephone interests he has had the satisfaction of seeing the independent systems flourish until today there are 63,000 independent telephones in the southern half of Nebraska alone. Not content with this work, he took up the development of a tract of 62,000 acres of Montana land, partially under irrigation and partially devoted to dry farming. The venture called for the display of all of his remarkable and varied talents and was eminently successful. It removed the last lingering fear from the mind of many a "doubting Thomas" as to the productiveness of the land and opened the eyes even of the Montana farmers themselves to the immense possibilities of their soil. Still more recently Mr. Woods has undertaken the operation of a 5,400-acre farm in Nebraska. Twenty silos will be erected on this farm in the near future and a large feeding plant will be established. Mr. Woods proposes to demonstrate the possibility and feasibility of growing beef on high-priced land, incidentally convincing stockmen generally of the value of the silo and its permanent place in grain-belt agriculture.

In his work in connection with the Woods Brothers Silo and Manufacturing Company, Mr. Woods is demonstrating that close application to the same business methods which worked out successfully in the establishment of the independent telephone lines and development of the large western land tract is destined to bring the same reward of unqualified success. While the past few years have seen the magnitude of the business of this company advancing by leaps and bounds, we are free to predict that the next few years will see Mr. Woods' "hinge door" silo the vehicle for carrying to every state the name and fame of a man whose marked success in worthy enterprises is but commensurate with the greatness of the man himself.

Clipping horses too soon is like taking off your winter underclothes too soon, except that you cannot put the clipped hair back on the horses, while you can sneak back to the wardrobe and get your winter underclothes again when spring weather turns back to winter. Clipping the long winter coat off the horse is beneficial to the horse all right, only don't get in too much of a hurry to do it, remembering that one robin seen on the back fence doesn't mean spring has come to stay.

HOWELL RIDING HARROW



THE upper picture shows Harrow at work. The lower shows it on the road with all sections raised and side sections folded **to go through any wagon gate.** Trot to the field and back. Safe in the hands of a boy, as the driver's seat is well to the rear.

Is of steel and malleable iron throughout, no bolts or taps to lose. Close hitch makes easy and steady pull. No jerking. Teeth can be set to any pitch. Makes a fine drag or stalk breaker. Coiled spring shock absorbers—fine for stump ground.

Best of all—the driver can lift any one of the three sections while moving, easily and quickly. More work, easier work, and better work. Ideal dry weather harrow, as it pulverizes dirt into a fine emulsion to retain moisture.

Factory to Farmer
No Middleman

This harrow is made by farmers. We know how to talk to farmers, and, talk in our low, direct prices.

WRITE TODAY for catalog and prices. You will then know what to buy when ready.

SPRINGFIELD HARROW CO.,
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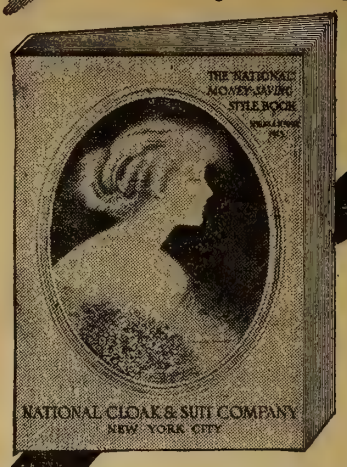
The Beautiful "NATIONAL" Money-Saving Style Book

Full of Latest Styles—Send Today Sure



You *Need* This Book—

it's the new "NATIONAL" Style Book—*the* book *of* books when it comes to styles and bargains.

It helps countless American women to dress *well* at *low* cost. Just look at these samples of "NATIONAL" Bargains and then write for your free copy of this beautiful "NATIONAL" Style Book today.

Waists	$ .59 to $5.98	Silk Dresses for Misses and Small Women	$4.98 to $9.98
Skirts	.98 " 7.98	Coats for Misses and Small Women	1.98 " 9.98
Lingerie and Wash Dresses	2.49 " 12.98	Suits for Misses and Small Women	2.98 " 14.98
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"NATIONAL" Tailored Suits $10.95 to $35
Made to Measure

Samples of Materials Sent Free

IMPORTANT: This season, "NATIONAL" Tailor-Made Suits are shown in a separate Suit Booklet containing fashion plates of all the new styles. This Suit Booklet is *not* a part of the regular "NATIONAL" Style Book. It is, in fact, a separate and special booklet, filled exclusively with Tailor-Made Suits which are made to order. And so now please note carefully:

This Special Suit Booklet is sent gladly, but only when asked for. So, if you are interested in Tailored Suits, be very sure that in writing for your "NATIONAL" Style Book you say—Send also the Special "NATIONAL" Suit Booklet and Samples.

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We prepay postage and expressage on all our goods to any part of the United States. Every "NATIONAL" garment has the "NATIONAL" Guarantee Tag attached. This tag says that you may return any garment not satisfactory to you and we will refund your money and pay express charges both ways.

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Send This Coupon Today

NATIONAL CLOAK & SUIT CO.
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Please send me, free, my copy of the "NATIONAL" Spring Style Book.

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Address .....

Are you interested in seeing the new Tailor-Made Suits for Spring? And do you wish us also to send you, together with your "NATIONAL" Money-Saving Style Book, the "NATIONAL" Special Suit Booklet? .....

At the same time we will send you samples of beautiful new Spring materials for Tailor-Made Suits if you state here the colors you prefer. Colors .....

A Corn Grader—A Grain and Grass Seed Cleaner

Two Machines in One.

It's exactly what you get in the Newton grader and cleaner. It grades corn in a most satisfactory way. Cleans and grades all kinds of grass and field seeds. Hundreds in use on the farms of successful farmers.

The Newton

Separates Oats from Wheat.

No other grader on the market will give you better work than the Newton. Few will come anyways near doing the work it will do.

Ungraded Seed Doubly Unprofitable.

The danger in sowing weak, shriveled grains does not lie alone in the fact that they do not grow, but by leaving vacant space you allow weeds to get a start which injure neighboring stalks. With the Newton grader you take out the light and chaffy grain, leaving only the plump, well-matured grain for seed. Grading your grain this year should save the price of our grader on the larger yield of the season's crop, and the grader will last many years. Don't take our word for it. Ask the college experts and they will tell you we are right.

Get the Newton Catalog Write us today and get circular telling all about this simple, practical, big-capacity corn grader and grain grader and cleaner—two machines in one. It tells all about its many points of advantage over other machines.

BERGMAN MFG. CO., - NEWTON, IOWA.

Studebaker

How Studebaker Automobiles Are Made

A Heart-to-Heart Story. No. 3

In this series of articles concerning the manufacture of Studebaker automobiles we have already described the four main opening channels of the Studebaker factories—the forge shop, foundry, steel stamping mill and heat-treating ovens—and also some of the many intricate milling and grinding operations which must all be wisely planned and well done before even the single parts of a Studebaker car are ready for assembling.

This issue describes farther steps in manufacturing which carry the car towards completion.

From the time some mighty forge hammers a molten block of steel into the form of a finished part, that part starts on a

A motor assembling department. The stock is drawn from bins at either side.

long journey through the Studebaker factories. It is milled, ground, heated white hot, baked, tempered and ground again in the course of its journey, but ever the process brings it one stage nearer its final adjustment in the finished car. The process is ceaseless. That stream which we call *production* always goes on.

Because Studebaker manufacture is organized in this way we are able to get better workmen at every point in the process. And this is how we do it.

The men who grind Studebaker gears, for example, are master mechanics of a single job. They grind gears, and nothing else. It is skilled labor brought to a high degree of specialization—incidentally, too, very well paid. As Sheffield workmen are famous for cutlery and South Bend watchmakers for watches—so Detroit workmen are famous for skill in building automobiles. And in no plant is there more attention paid to high standards and the most efficient labor than in the Studebaker factories.

The Studebaker factories have been making automobiles for years and our financial and factory resources are large—naturally this draws to us the best workmen because we can offer them regular employment. We keep our men and as we keep them they gain in specialized expertness. This is one of the important reasons why a concern like The Studebaker Corporation is able to produce the very highest quality of goods.

From each of the departments, as parts are completed they are sent to the big stock rooms where they are laid away until assigned to the assembly departments; but before they are accepted by the stock department they are put through a final test, which is in addition to the many tests they have had during the process of their manufacture.

We want you to appreciate this kind of organization. We maintain a separate department known as the efficiency department. This group of engineers study the methods and organization of Studebaker plants and constantly seek to improve them. All the machines, benches and shops are charted. The journey of every part is charted on big paper charts which show exactly how it passes through the factory. The efficiency engineers study how this journey can be shortened; how handling can be reduced; how by manufacturing universal joints, for example, in one shop instead of another a little less time will be consumed in the process; how the change of a bench here, the addition of an electric light there, will enable time and money to be saved. And all this means a better car for less money.

The department where the parts are brought together in a car is called an assembling department. There are six great assembling departments in the Studebaker factories; the small parts assembly; the motor assembly; the rear axle assembly; the steering gear assembly; the control assembly and the chassis or final assembly.

In the small parts assembly small units of two or three parts are put together. For instance, the clutch, the universal joints and other similar small units are assembled and made ready to join with the larger assemblies in the chassis.

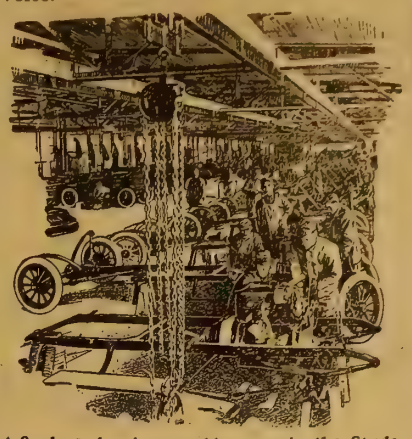
The motor assembly is one of the most important assembling departments in the

Enameling room where the finish is baked on Studebaker fenders and hoods. The enamel is baked for hours at a time.

factories. Here the cylinders, the crank shaft, the cam shaft and other parts are brought together and built into a motor. Expert workmanship is absolutely necessary. If the motor is to run true there must not be the slightest looseness or any distortion or unevenness of balance. In fact, each pair of pistons and connecting rods are balanced to within a fraction of an ounce so that the crank shaft will revolve perfectly smoothly.

Did you ever think how rapidly the parts of a motor must move and how, in a good motor, every part must be fitted true to the last degree of accuracy? It is because of the fine workmanship that Studebaker motors run so silently, you can seldom hear them, and so efficiently that Studebaker motors deliver, through the transmission to the rear wheels, a larger proportion of the power developed by the exploding gas than any other motor yet designed.

When the motor is assembled it is clamped to a solid frame and belted to an electric motor which drives it for several hours under heavy lubrication in order to "work in" all the bearings. Later the same motor is taken to the motor test room and run for many hours under its own power. If a "knock" or any imperfection should develop, it is corrected then and there. In this motor room 75 motors are constantly running under their own power, yet it is so quiet that no one needs to speak above an ordinary tone of voice.



A final or chassis assembly room in the Studebaker factories. Notice the traveling crane in the foreground.

Before a Studebaker motor is finally approved it is tested for horsepower by a dynomometer. If it shows up perfect in every respect it is passed to the chassis assembly to be placed in its chassis.

If you will reflect a little here, you will see how perfect must be our system of manufacture in order that the different parts of a car may be drawn from stock and yet always each exactly fit the other. If we did not manufacture to the finest limits the cost of assembling would be prohibitive. This is how an owner in Bombay, India, or in Mobile, Alabama, or anywhere in the world may send to us for any part needed on any car we ever built and get a part which may be slipped into the car and fit exactly. This is what we call real interchangeability of parts.

Another important assembly department is where the rear axle and transmission are built up, in much the same way as the motor. When the rear axle and transmission are ready they are belted to an electric motor. It will be remembered that these gears have already been tested for accuracy and silence. They are now tested in permanent relation to each other and must be perfect before they are passed. It is such care as this which is producing Studebaker rear axles on the new cars which are noiseless at all speeds.

When the rear axle passes its final test it is sent to the chassis or final assembly.

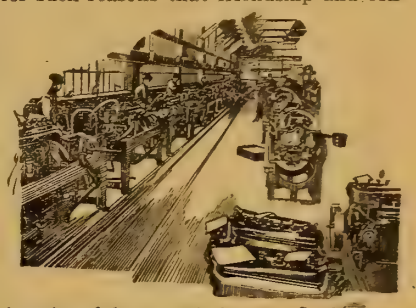
These rooms are huge and in them 150 cars are built at one time. Labor is reduced to a minimum. Electrically-driven traveling cranes run the length of the room and the chasses pass down the line of workmen, each doing his part as the cars pass by. One skilled workman places the steering gear or the control mechanism in the chassis; two others working together place the springs on the frame; two more put in the axles; others bolt in the motor, and so on until the chassis is completed.

If you have read between the lines of this story you have already seen how quantity production not only lowers prices but also does better work. The effect of specialized skilled labor is everywhere apparent in the finished Studebaker car.

When the chassis is finally finished, it is ready for the road test. The final adjustment of the carburetor must be made and the little finishing touches which tune up the car to prepare it for the owner's hands.

We have 35 testers, young men and automobile experts, who put a rough body on the chassis and take it out for a long, hard drive on the country roads. It is run at slow, medium and highest speeds over hills and through sand. Of course on the road test old wheels and tires are used. The skilled eye of the driver watches every part of the car and his ear detects instantly any variation or defect in the car's running capabilities. Any necessary minor adjustments are made on the road and when the tester returns he turns in to an inspector a complete report on the car. If changes are necessary they are made and when the inspector finally passes it the car is sent to the painting department, where it is cleaned by steam to take off every particle of oil, sand and dirt.

We have gone over these matters in detail because in the aggregate they account for the remarkable value of Studebaker cars. We want you to believe in Studebaker cars because you know that they are manufactured by most efficient, honest and up-to-date methods. It is for such reasons that friendship and con-

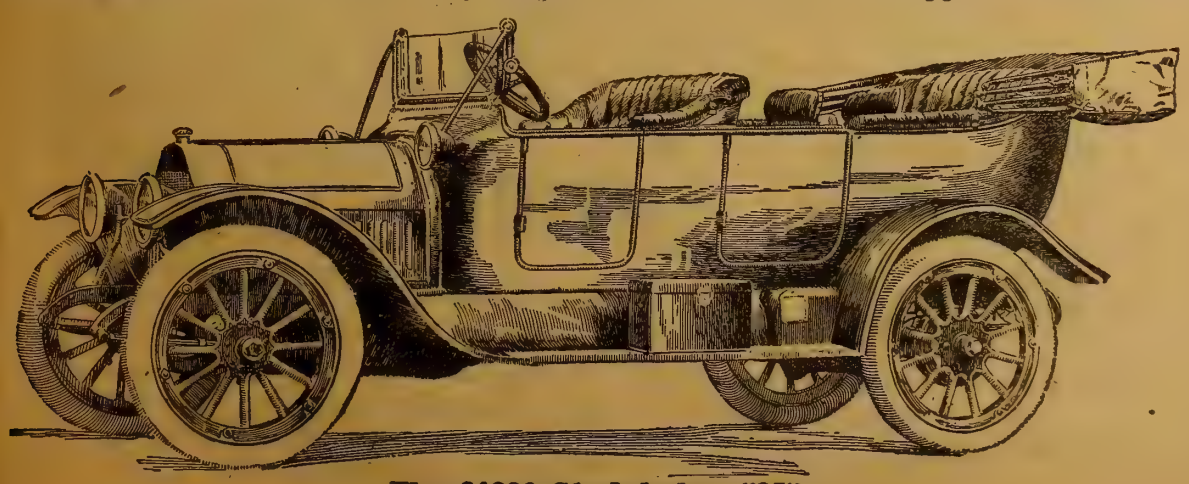


A section of the motor test room. In this room 75 motors are tested under their own power at one time, yet it is so quiet that the workmen speak in ordinary tones.

fidence grow strong, and we hope you will come to have real friendship for and confidence in Studebaker cars and Studebaker business principles.

The fourth of this series—and next to the last—will appear in the March 20th issue. It will be worth reading. Remember to look for it.

Many other important matters of Studebaker automobile manufacture we have described in our "Proof Book." It explains things about an automobile which few people know but which every buyer ought to know. It is free. Send for it now on the coupon below.



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5 passenger—Gas starter.

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

After an unusually dry winter our blanket of snow is not at all unwelcome, but it looks as though Old Sol is going to make short work of it.

The increased yield on one acre will pay the expense of sharpening the disk. If the sharpening cannot be done at home it pays well to give the blacksmith a job. Live and let live is not a joke.

After the quail is almost extinct it looks as though our lawmakers are going to try to protect them. This may help some and if every farmer would forbid hunting on his farm it might be that the call of "Bob White" will be heard again.

Last year we cut our oats hay with the self binder and liked it well enough to make this year a repeater. It was cured better than the oats in the swath and was easier to handle, especially since some of it had to be stacked. I would advise making small bundles and small shocks and to see that the shocking is well done.

A feed mill that crushes ear corn and grinds other grain is a pretty good machine to have for the farmer who wishes to get the very highest price for his grain, but it is a mistake to try to do much grinding with anything less than a four-horsepower engine. It goes without saying that one who wishes to get the highest price for his grain must sell it in the form of beef, pork or dairy products.

The auction season is on again with its usual hurly-burly of bills, noise, free lunch at noon and "other articles too numerous to mention." It is noticed, however, that "twenty tons of hay in the stack" does not draw the crowd that it did a year ago.

Many first-class nurseries are now selling direct to the planter, which is a move in the right direction, because it allows the one who wishes to plant to use his own judgment in making a selection. The old-time nursery agent has seen his best days and has received many well-deserved kicks, but there are many groves and orchards on our prairie farms that show that this was not all to the bad.

If the early plowing is left a little rough it doesn't worry me, for rains are most sure to smooth it and pack it before the time of planting, but if I am plowing a short time before planting, I want the harrow to follow the plow, unless a rain is in sight. In a real arid country I would likely change this plan a little, and would be particular about keeping a dust mulch.

An incubator can be regulated so a cold snap has no effect on the hatching of the eggs, but I find it doesn't do to get in such a hurry to "start the thing going" that the eggs must be gathered during freezing temperature. It is difficult to get eggs that will hatch in cold weather, even by gathering three or four times a day.

As a rule the cheap thing proves the most costly in the end. On the other hand, a high price paid for a cheap thing adds nothing to its durability. A cheap belt is a poor investment at any price, no matter how low, for it is sure to give out and cause delay just when everyone wishes to rush the work along and finish.

Time now to get busy with the fanning mill. Putting it off until seeding time may mean putting it off altogether.

A spring in the price of live stock proves a great boon to those making public sales. Last fall shoats were selling comparatively reasonable at sales, but since prices have advanced, bidders have put the selling price of shoats away up in the skies. Fat hogs will have to sell higher than they do now if some of the sale-bought shoats realize their purchasers a profit, for some have been selling three cents a pound higher than fat hog prices, and they have been 150-pound shoats at that.

Unless March gives us a great excess of moisture, soil will work fine this spring. I never have known it to come this far through the winter in such fine shape. A lack of heavy rains, and plenty of freezing with the surface bare, has mellowed it beautifully. Let us hope for no prolonged floods.

Coal oil is higher in price than it was but it is still cheaper and much more comfortable for summer cooking than wood or coal. The modern oil stove is certainly a great improvement over the old way of roasting over a cook stove, all through the summer season. The cook is as entitled to these improvements as is the man to his improved machinery.

It costs but little to have the harrow teeth sharpened, and the difference in work done by a harrow with sharp teeth and one with dull teeth is certainly great. It is a good idea to look after these things and get them put in shape before the spring's work comes on with a rush.

Horses that have been wintered with little to do are soft when put into work in the spring, and they should be handled with care for several days. A horse can be injured quickly when soft, so it pays to use a level head when doing the first few days' work.

The disk harrow that more than takes two corn rows or that will not quite take two is a nuisance. The fourteen-disk size is about right for the average width of corn row, while the twelve size is too narrow and the sixteen size is too large.

Hindsight is a mighty sight better than foresight. Many a time I have got an oat field half sowed when stopped by storm. Almost always made the better yield, but a man never knows which it will be at the time of sowing.

If you have a good-sized garden, plant in rows that can be worked with a horse cultivator, if you have only a small garden, get the rows close together so there will be less ground to hoe.

Calves are now worth enough so they will pay for all the good feed they need. Any kind of live stock is worth so much that it is worth keeping well.

The nearer the approach of pasture the more a cow's appetite must be tempted with the best roughness the farm affords. I like to have a stack of good clover or alfalfa hay left to feed during the time when the smell of grass is in the air and before it arrives in entirety.

A weedy field is best plowed early or else late, just before planting. By plowing early, the weed seed has time to sprout and can be killed by disking before planting; by plowing just before planting, the corn is given at least an even start with the weeds.

No-Rim-Cut Tires
10% Oversize

One Million Sold Another Million in a Single Year

One year ago—in our 13th year—we announced that one million Goodyear tires had then gone into use.

This month we touch the two million mark, and it's only one year later.

It took 12 years to bring motor car owners to use a million of these tires.

It took only one year for those million tires to sell a million others.

Mark What Those Tires Told

A million tires, within 12 months, sold a million others. That breaks all the records of Tiredom.

Don't you think you should know how they did it?

This is How

Men found that rim-cutting, with old-type tires, ruined 23 per cent of their tires.

They found that Goodyear No-Rim-Cut tires ended this loss entirely.

Men also found that the 10 per cent oversize added 25 per cent to the average tire mileage.

Hundreds of thousands of men learned this, then told the facts to others.

The resulting demand now compels an output of 6,000 tires daily.

Are They Wrong?

You who still use other tires must infer that these men are wrong.

But these are days of odometers. Men are keeping track of tire mileage.

Mileage figures only sold those million tires—the mileage figures on the previous million tires.

And Goodyear sales, because of those figures, are seven times larger than two years ago.

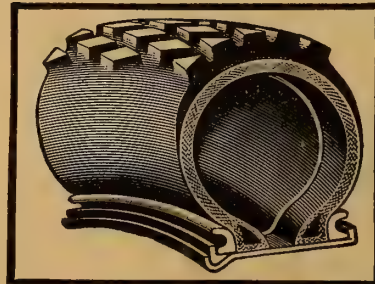
Find Them Out

For your own sake, test No-Rim-Cut tires. They save the average user almost half one's tire bills.

Think how that cuts tire bills. Think how it saves annoyance.

These tires now outsell every other tire in the world. Find out why they do it.

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.



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With or Without Non-Skid Treads

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Branches and Agencies in 103 Principal Cities **More Service Stations Than Any Other Tire**
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
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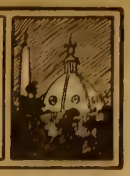
CURRENT EVENTS



FOR the first time in sixteen years the country is now under a democratic administration. Woodrow Wilson was inaugurated president and Thomas Marshall vice-president on Tuesday of this week. They bring with them into power a congress controlled by a good working majority in the lower house and by a bare majority in the upper house. Unless the democratic ranks are divided, as the republican have been for some years, the party should see much legislation enacted in fulfilment of campaign pledges. President Wilson comes into power with the largest electoral college vote of any president, and yet the fact remains that he is a minority president to the extent of taking office by the votes of less than half the people. He is cultured, experienced in dealing with men and brings to the office probably the highest degree of intellectual vigor which it has ever experienced. Up to the time of writing none of the members of President Wilson's cabinet had been officially named, although it is unofficially stated that the following have been agreed upon: Secretary of state, William J. Bryan, of Nebraska; secretary of the treasury, William G. McAdoo, of New York; postmaster-general, Albert S. Burleson, of Texas; secretary of the navy, Josephus Daniels, of North Carolina. The week will be a busy and important one, because of the change in national administrations, and the selection of new men for the important positions of presidential advisers and the first steps to put the democratic legislative program into execution.

CONGRESS will be called in special session by President Wilson, Tuesday, April 1st, to take up three important matters: Revision of the tariff downward, an income tax bill and probable currency reform. President Wilson announced his plans a few days prior to his inauguration, after receiving a letter from Congressman Underwood, democratic leader of the lower house, who informed him that by the first of April drafts could be made for most of the tariff bills so that congress could immediately proceed to their consideration. It is confidently expected that the proposed tariff legislation will have passed the house before the first of May. The democrats have complete control of the senate so that President Wilson is confident of the tariff bills becoming laws before his administration is many months old. An income tax bill is being prepared, following the action of the necessary number of states in ratifying the proposed constitutional amendment. Whether the minimum income will be placed at $5.000 or less has not yet been disclosed. President Wilson is known to favor currency reform and has spent much time recently studying the subject.

PRESIDENT FRANCISCO I. MADERO and Vice-president Jose Saurez, of Mexico, were killed while being transferred from the national palace to the penitentiary, in Mexico City. Although General Huerta, provisional president, had assured the public that the lives of the two men would be safeguarded and although President Taft had served official notice that this country would demand the protection of the former rulers, the two men were done to death in a manner which casts suspicion upon the present administration in Mexico. Claim is put forth that an attempt was made to rescue Madero and Saurez and that in the melee the two men were killed, whether by their friends or their guards has not been disclosed. An official investigation has been ordered and in the meantime Ambassador Wilson has notified President Taft that he believes President Huerta's version of the affair and that the men were accidentally killed. President Huerta will remain in control in Mexico until a new president and vice-president are chosen by the people at an election, the principal candidates being Felix Diaz, who led the recent revolt against President Madero; Francisco de la Barra, former provisional president, and Rodolfo Reyes. In the meantime American troops to the number of 10,000 have been mobilized on the Texas frontier, in a position to be moved immediately into Mexico should American life be sacrificed. What action President Wilson will take on probable intervention has not been disclosed, but the troops will be in readiness along the Texas line for any serious movement.

DIRECT election of United States senators, under a constitutional amendment, is an imminent probability. Twenty-four of the states have already ratified the amendment, which will become a law when ratified by two-thirds of the entire number or thirty-six. One house of twelve additional state legislatures has already ratified the amendment, so that if the other house of each of these twelve states takes similar action the amendment will have passed in thirty-five states, or within one of the required number. The legislatures of forty-two states are in session this winter, so that it is considered highly probable that before the spring adjournment enough will have taken action to make it possible to put the direct election amendment upon the constitution. It is considered probable that the successors to thirty-two senators whose terms of service expire March 3, 1915, will be chosen by the people at a direct election rather than by the old system with its corruption and deadlocks of legislatures. In the meantime several states are adopting the Oregon plan, which provides that candidates for the legislature shall announce in advance whom they will support for the senatorship, thus giving the people an indirect opportunity to say who shall be the state's members in the upper house of congress. Iowa is one of the states which are proposing to adopt the Oregon plan, the lower house having already passed the bill, with good prospects of the upper house doing likewise.

NOTWITHSTANDING much discussion of economy, congress has seen fit to pass one of the biggest "pork barrel" bills in many years, appropriating over $25,000,000 for some 400 public buildings scattered throughout the districts of the various men who voted for it. That there is urgent need of many of the buildings provided for by the bill is not to be denied, but on the other hand (as Representative Fitzgerald, of New York, pointed out) postoffices and other public buildings are provided for for twenty-four towns of less than 3,000 population and with postal receipts of less than $7,500, although a few years ago a minimum limit of $10,000 for postal receipts was agreed upon before a new public building could be had. Only twenty minutes were allowed for the opponents to discuss the bill, which provides $100,000 for a public building in Jasper, Alabama, a town of 2,500 population; $125,000 for Las Cruces, New Mexico, with less than 4,000 population; $62,500 for Buffalo, Wyoming, with only 1,300 population and $75,000 for Bellefourche, South Dakota, with a population of only 1,300. For many years past the "pork barrel" bill has been simply a scheme for various congressmen to secure large sums of money to be expended in their districts for but little other purpose than to insure their reelection. The congress which passed this particular bill had made much to-do about economy, cutting down the naval appropriation bill and a $20,000 appropriation for a national counsel of defense, but wasted many millions of dollars upon the public building bill.

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My $30,000 Guarantee

Under this guarantee I will ship you any buggy or harness in my catalog and let you use it right on the road for 30 days and submit it to any reasonable test in actual use. If it is not exactly as my catalog states I will refund every cent of your money and pay the freight both ways besides. And there won't be any argument about it either. Behind my guarantee is a $30,000 bond deposited by me in the Mercer National Bank of this city. That ought to convince the most skeptical.

Let me send you my big

BOOK of Buggy Bargains FREE

This shows you not only the latest styles in buggies but also how they are made and how carefully each one is inspected and tested before it is shipped. It shows tests of strength for individual parts which no cheap buggy could stand. You will find all this explained in my book together with a lot of other interesting and valuable information.

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I want you to have it whether you buy a buggy this year or not. I will be glad to send it and pay the postage on it. You need not write a letter, just use a postal card, but send it TODAY.

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Badgers require less fuel to run under heavy load than the average engine consumes under lightest load. Dependable at all times; rain or shine, cold or hot, under heavy load or light load. Runs so smoothly requires no blocking. Extra large bearings mean long life. Perfect Oiling System. Easy to start.

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THE CHRISTENSEN ENGINEERING CO.
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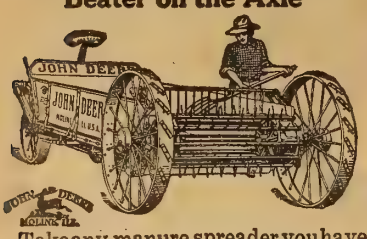
John Deere Spreader

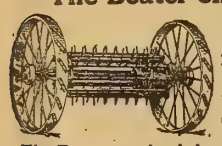
The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

The Beater on the Axle


The Beater on the Axle

The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

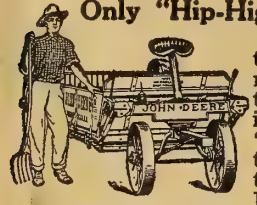
Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

Out of Gear

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.

Only "Hip-High"



Easy to Load

Because the beater is mounted on the rear axle, it is only "hip-high" to the top of the box. Each forkful of manure is put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—*Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y.27*

John Deere Plow Co.
Moline, Illinois

Hamstring the Snout of your HOGS with a

BELL-HART Anti Rooter

A boy can ham-string the snout of a hog in a moment with a BELL-HART tool.

STOP THE ROOTING.

Once done, always done. Mr. Hog hasn't the power to lift the sod. Does not disfigure the finest show stock. Most humane of all known methods. Be the first to use the BELL-HART tool in your neighborhood.

Ask your dealer—if he does not carry it send us his name and $2.50 and we'll send you tool prepaid.

Write for Booklet which tells the interesting story about the discovery and advantages of the Bell-Hart Tool.

BELL-HART TOOL CO., Manufacturers, Department 5. Palmyra, Illinois.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED

INSPECTION OF ANIMALS.

Mr. H. A. Parker, Auburn, Iowa.—I intend to move to Cottonwood county, Minnesota, next spring, and will take with me four horses and two mules. Is it necessary to have them examined by a veterinary before shipping?

Answer.—You will have to have the animals inspected by the state veterinarian of Iowa, or one of his assistants and get a certificate that they are free from contagious and infectious diseases. This certificate must be made in duplicate, and the original forwarded to the live stock sanitary board of Minnesota, and the duplicate given to the railroad or transportation company to be attached to the bill of lading.

PARTITION FENCE.

An Iowa Subscriber.—About six years ago I fenced my pasture with woven wire fence. I furnished all the woven wire for eighty rods of fence between the pasture and my neighbor's land, fastening the wire to his posts on his part of the division line, and have kept it up ever since. He sold his land to B and B sold it to C. I now wish to take the wire off his part of the line and put it on my own, but he objects to it. Has he a right to continue to use the forty rods of wire on his part of the line, or can I take it off?

Answer.—This is a matter within the jurisdiction of the fence viewers. You have no right to take off the wire until the matter is determined by them. Request them to meet and decide the question. They should in such case find the reasonable value of the forty rods of wire, and order your neighbor C to pay you for the same, or else make an order allowing you to remove the wire.

LICENSE FOR AUTOMOBILE.

Mr. James Smith, Jefferson, Iowa.—Can a man lawfully keep an automobile in a shed on his farm and not use it on the roads without paying license?

Answer.—He can. Registration and license are required only for owners of motor vehicles which are operated or driven upon the public roads of the state.

CHURCH CONSTITUTION—ELECTION.

No. 77, Baxter, Iowa.—A certain article in a church constitution is as follows: "Elders and deacons shall be elected by a majority of the votes cast at a congregational meeting, and may be reelected. Nominations for the offices of elder and deacon shall be made by the consistory, which shall present the names of one or two persons for each officer to be elected. A person shall not be voted for unless regularly nominated." In some congregations the consistory nominates two persons for each office and declares the members whose terms expire may be reelected. This would make practically three nominations for each office. In other congregations the consistory nominates two persons, one of which may be the person whose term expires. Which is correct according to said article in the constitution?

Answer.—The last method is correct. Nevertheless if the first method be pursued, and a person voted for receives a majority vote the irregularity would not be sufficiently material to render such election void.

HOMESTEAD—SOLDIERS AND SAILORS.

Mr. Arthur Ewald, Northwood, Iowa.—What must an honorably discharged soldier or sailor do to secure a homestead, and what privileges, if any, are extended to him by the new homestead law?

Answer.—In order to secure a homestead on the public lands an honorably discharged soldier or sailor must select the land he desires and make application for the same at the land office within the district where the land is located, paying the land office fees. The register will furnish the necessary blanks for his application. Under the new law the claimant is only required to reside on and cultivate his land for three years before proving up and getting his final receipt. He must construct a habitable house on the claim and reside there, and cultivate at least one-sixteenth of the claim beginning with the second year, and at least one-eight of it beginning with the third year. The special privilege given to an honorably discharged soldier or sailor is that the time he served in the army or navy is deducted from the three years of residence and cultivation, except that he must reside on it and cultivate it for at least one year.

BOUNDARY LINE—PARTITION FENCE.

A Subscriber, Bushnell, Ill.—I live in a town in Illinois and the lot adjoining mine is occupied by a big flat, in which five or six families live, and they trespass upon my ground and keep the grass tramped so that it will not grow. There has never been a fence between the lots and I am not certain as to where the exact line between the lots is. (1) Can I compel the owner of the flat to have a survey made and the line established? (2) Can I compel the owner of the flat to build half of a partition fence between the lots, and if so, how must I proceed to do so?

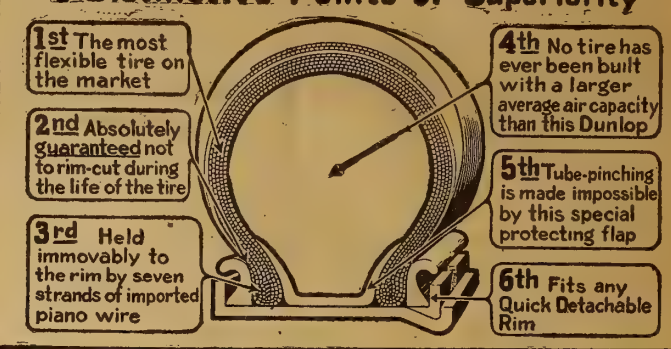
Answer.—(1) The law gives author-

The Genuine

DUNLOP

Straight Side Tire is an Ideal Tire for Country Use

6 Distinctive Points of Superiority



Everywhere men who use their cars in cross country service are turning to the Genuine Dunlop straight side tires.

Here they have found a tire that is fortified at every possible point to withstand the extra rough service over country roads.

Country drivers want maximum flexibility in their tires—they want protection against rim-cuts and tube pinching—they want security of fastening and extra size.

The Genuine Dunlop Tire combines all of those advantages and in addition has the extra strength and durability that comes from the co-operative four-factory methods of manufacture used *exclusively* in the making of *all* United States Tires.

The Dunlop is in no sense a new tire.

It was placed on the market over ten years ago, and has been steadily gaining in popularity since then.

But remember—the Genuine Dunlop, the only tire that combines all the advantages of this type—is made exclusively by the

UNITED STATES TIRE COMPANY

Makers of the Famous Nobby and Chain Tread Tires
(Made in 3 Styles including the Dunlop)

The Only Spreader with Two Beaters and with a Distributing Attachment. Pulverizes and Spreads Wider.

Man, it's a wonder! Covers three full rows—5 to 7 feet. Cuts the manure into shreds and distributes it evenly. No choking. No bunching. Guaranteed to do this with all kinds and conditions of yard and stable manure; also lime, ashes, compost and commercial fertilizers. See the spreading paddles in the picture!

New Idea Manure Spreader

The Spreader That Won the Hartman Contest

Far ahead of any other on the market. Simple construction. Light—but stands hard usage. No cog or bevel gears. Easy loading. Easy haul for double team—not a horse killer. Tracks with standard wagon. Solid bottom which never warps, breaks or wears out. Only perfect endless conveyor—cannot slip. All power direct from rear axle. Only two levers to operate. Strong metal wheels.

50 more strong points. All explained in New Catalog. WRITE FOR IT TODAY, whether you need a spreader now or not. SEND A POST CARD.

NEW IDEA SPREADER CO., 144 Sycamore Street, Coldwater, Ohio

Light
Strong
Never Clogs
Low-Down
Guaranteed

ity to the city council to regulate partition fences and party walls. You should apply to the council to determine the line. We do not think you can compel the owner of the flat to have a survey made. (2) The fence law of Illinois is applicable to agricultural lands, and not to city or town lots. If the owner of the flat does not want a partition fence there is no way by which you can compel him to build half the fence between the lots.

FARM CROSSINGS—CATTLE GUARDS.

A Subscriber, Ord, Neb.—I bought land in Nebraska five years ago. The C., B. & Q. railroad runs through it and the company has fenced both sides of its right of way and placed a gate so I can go from one side to the other. I have asked for planks for a crossing, but the company refuses and says it is not required to keep up a private crossing. Can I compel the company to make a private crossing and put in a cattle guard at the crossing?

Answer.—You cannot compel the railroad company to make a private crossing nor to put in a cattle guard. The law requires the railroad company to provide openings or gates at farm crossings and cattle guards at all road crossings, but not at farm crossings.

SALE OF FARM—MOVABLE ARTICLES.

A Subscriber, Ogden, Iowa.—I have sold my farm and have several movable hog houses on the place which were not mentioned in the deal. Can I lawfully take them with me when I leave the place?

Answer.—The movable hog houses are not fixtures on the place, but merely personal property belonging to you, and you have a right to take them with you when you give possession of the farm.

EXAMINATION OF SCHOOLROOM DESKS.

A Subscriber, Osage, Iowa.—Has an assistant principal of a high school the right to examine the desk of a pupil, to see what he can find, and on finding an open letter, read it?

Answer.—During school hours the desks and other furniture and appliances in the schoolroom are in charge of and under the control of the principal and teachers and any of them has a right to examine the desks or read open letters found therein.

PARENT AND CHILD—GUARDIAN.

A Subscriber, Orchard, Iowa.—B had a wife and a daughter and sent them away and married again after getting a divorce. Neither B nor his first wife are Catholics. The daughter is not of age. Her mother has married again and will not take care of her daughter. (1) Can B send his daughter to a Catholic school? (2) Has the daughter a right to choose a person for a guardian, and have him appointed?

Answer.—(1) B is the natural guardian of his daughter, and has a right to send her to a Catholic school or any other school that he chooses. (2) The law provides that a minor over fourteen years of age, of sound mind, may select its own guaradian, subject to approval by the district court or a judge thereof in the county where its parents reside, if living with them, if not, in the county of its residence.

DAMAGES FOR ESTABLISHING ROAD.

A Subscriber, Deerfield, Ill.—Some time ago I bought a strip of land on a section line containing nine and a half acres, not knowing that a road had been laid out. The road had not been actually opened. A petition is now being circulated to open the road. Can I recover damages for the land which will be taken for the road?

Answer.—If the proceedings laying out the road were legal and regular, damages must have been assessed in favor of the former owner of the strip, for the land to be occupied by the road, and you can not have damages assessed in your favor, when the road is actually opened. If no damages were ever assessed in favor of the former owner, and he did not grant right of way for the road, you can have compensation made to you.

MOVING ANIMALS FROM IOWA TO NEBRASKA.

A Subscriber, Menlo, Iowa.—When unregistered live stock, such as horses, cattle and hogs, are moved from Iowa to Nebraska, do they have to be tested or examined, and if so, by whom?

Answer.—There is no law requiring such animals to be inspected, before or after moving them from Iowa to Nebraska, unless they are actually in a diseased condition, in which case the owner must report the same to the deputy state veterinarian of Nebraska.

NO INTEREST IN ESTATE—NOT LIABLE.

A Subscriber, Anthon, Iowa.—(1) A and B were sweethearts and were to be married on December 24, 1912. A was not yet twenty-one years old and on November 10, 1912, he died. Can B recover any of his estate? (2) If A had been more than twenty-one years old could she recover any of his estate? (3) A put his team in B's livery barn and while the team was there B walked up behind it and one of the horses kicked B on the leg and broke it. The horse had never before kicked at anyone. Is A liable to B for damages?

Answer.—(1) B cannot recover any part of A's estate. (2) She could not. (3) A is not liable to B for damages.

Two Horses Do the Work of Three

Roller Bearings roll around the axle instead of wearing them out like the ordinary frictional sliding bearing and do away with one-third the usual friction. Our improved hardened steel bushing takes away practically all wear on the bearing and box. Don't think of buying a new wagon until you have seen the

Peter Schuttler Roller Bearing Wagon

The Greatest Improvement in Wagon Construction in 50 Years

Saves horses because it pulls easier; saves time because you can go faster; saves repair bills because the whole wagon stands up better. Roller Bearings need oiling only about once a month and never get hot or tight on the wheel. They are the crowning feature of the old reliable Peter Schuttler "The One Best" wagon that has lead all others for quality since 1843.

Read What U. S. Government Tests Show

Official tests made by Government road experts on common axles in competition with Roller Bearing axles on the same roads report the following:

To Start Load
Common Axle - - - - 850 lbs. pull
Roller Bearing Axle - - 400 lbs. pull

To Haul Load
Common Axle - - - - 260 lbs. pull
Roller Bearing Axle - - 100 lbs. pull

You Can Make the Same Kind of a Saving in Hauling Your Own Loads

PETER SCHUTTLER CO.
2508 W. 22nd Street, Chicago
The World's Greatest Wagon Factory., Est. 1843.

Free Book Send for our illustrated book telling more about the Peter Schuttler Roller Bearing Wagons. Read what farmers who have actually used these wagons say of this great new invention.
Send for the book today

JANESVILLE Pivot Axle Disk CULTIVATOR

Manufacturers of Farm Implements

6 Times Over By 3 Times Through

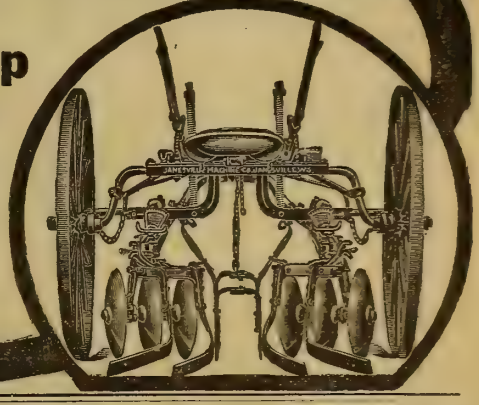
A double cultivation, every time through! That's what the Janesville Pivot Axle Cultivator means. Every advantage of the disk—pulverizing the hardest, baked soil, penetrating trash, cutting through weeds, cornstalks, etc. *And in addition, a perfect surface cultivator* because of our *springy, vibrating surface blades.*

We'll Take The Extra Crop On 40 Acres As Our Pay

We make that absolute *guarantee.* We *know* what the Janesville has done. It is a machine that *makes it easy* to do good work. Levers force disc gangs into hardest ground without extra leg work on part of hired man or boy operator—guiding of disc gangs done by feet on long levers connected direct to pivot axle. Insures farmer that his crop will be well tended. *Surface blade* follows disc gangs, fills up trenches, throws dirt to or from the rows, destroys weeds, drags them out, leaves soil in thoroughly pulverized condition. Combines all features of "special" surface cultivator and disc—leaves soil in best condition for largest yields.

Send Name for our booklet about this splendid money saving implement.

The Janesville Machine Co., 31 Center St., Janesville, Wis.



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Direct to you at lowest cost. Save money and get a roof that will last a lifetime and is guaranteed lightning and fire proof. Anyone can easily apply it. Saves repair bills. Prevents damage from leaky roofs.

Galvanized Cupolas

Make your stock healthy by keeping a current of fresh air in your barn. Rain and snow can't blow in on your hay. Birds can't nest in it. Made of galvanized steel, outlasts wood ten to one and needs no painting or repairs.

Free Samples

of our roofing by mail, and catalog with prices and full information. Write today.

STEEL ROOFING & STAMPING WORKS
512 S. W. 2d St. Des Moines, Iowa

Get more Pull from your Horses

You get more pull from your horses when you use **Gamble Equalizers.** They divide the pull evenly between 3, 4 or 5 horses—even the pull to within a fraction of a pound—make horses' work and your work easier. **Gamble Equalizers** work 4 horses abreast—1 in furrow, 3 on unplowed ground. No chance of tugs rubbing horses' legs. Pull in direct line—no side draft. Each horse has plenty of room and gets its share of the pull.

Style of Equalizer shown here is for use on 16, 18 and 20 inch sulkies, and 12 and 14 inch gang plows with cross clevis hitch. Also on disc sulkies and 12 and 14 inch gangs having wide draw-head. To attach to clevis only one bolt is used. We make clevises and attachments for use with all improvements.

Gamble Equalizers are Guaranteed

to give perfect satisfaction and do everything we say or *money refunded.* They are the original Equalizers—the best—fully protected by patents. No others like them. Do not accept a substitute. Cost so little you cannot afford to be without them.

See them at your dealer's

This weight test proves its perfection

Gamble Equalizers are made for 3, 4 or 5 horses—for wagons manure spreaders, potato diggers, harvesters, hay loaders, etc. See them at your implement dealer's. If he does not handle them, send us his name. We will see you are supplied. Send for

Free illustrated CATALOG showing full line of **Gamble Equalizers.**

STAR MANUFACTURING CO.
Dept. 1 Carpentersville, Ill.

Corn Belt Mill

20 Days Free Trial

Grinds more ear corn or small grain, with less power, than any other mill. Doesn't warm the feed. Lathe-centered Burrs may be changed in three minutes. Try it 20 days free. Write to-day for booklet.

Spartan Mfg. Co. 28 Main St. Pontiac, Ill.

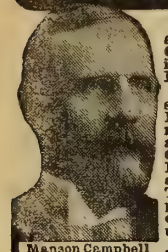
PERFECTION SANITARY CIRCULAR METAL BROOD COOP

made entirely of galvanized iron which will last a life time. They are properly ventilated, and are Rat, Mink, Weasel and Skunk proof. Just the coop you are looking for. Write for circular & special introductory prices.

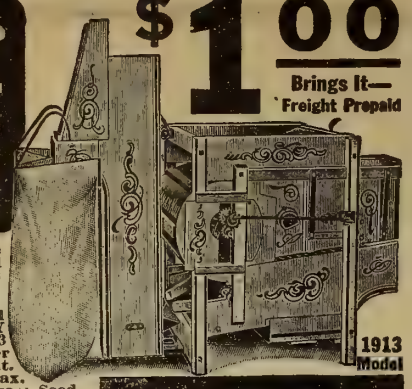
Perfection Metal Brood Coop Co., BOX 30-P Warsaw, Ills.

One Dollar

Is All It Now Costs to Have Your Seed-Grain Cleaned and Graded



Manson Campbell



$1.00 Brings It—Freight Prepaid

1913 Model

The CHATHAM Grain Grader and Cleaner

Now that farmers everywhere are cleaning and grading their Seed Grain, the question is, how to get it done *best, easiest* and cheapest. Here's my 1913 offer:

Send me one dollar and I will ship you, FREIGHT PAID BY MYSELF, this improved 1913 model Chatham Grain Grader and Cleaner with all equipment. Clean your Seed Wheat, Oats, Flax, Barley, Peas, Beans, Corn, Grass Seed, etc. Then PLANT those fine seed. AFTER you have harvested a bumper crop, pay me the balance of my low price. Not one penny need you pay, except the $1, until next November. And by November YOUR CHATHAM WILL HAVE MORE THAN PAID ITS ENTIRE COST in INCREASED CROPS. Then you'll have a "Chatham" to work FREE for you the rest of your life.

Your Dollar Returned

if you want it. I don't want your dollar or want you to keep my "Chatham" unless it pleases you. If, after a 30-day test, you are not satisfied, return the machine at my expense and I will send back the dollar.

A Machine That Fits Your Farm

After 40 years' experience, I know every grain and noxious weed grown in America. I know the section where each one grows. I know every grain and weed that grows on *your* farm. Experience has shown that a Grain Grader and Cleaner should have special equipment for the particular farming section to which it goes. For example, I send an *entirely different equipment of screens*, riddles and gangs to Maine from what I send to California. In fact, *there are scarcely 2 states in the U. S.* to which *I send the same equipment*. Thus you get the exact and proper outfit to handle the grains and weed seed that grow on *your* farm. You *don't* have to pay for a lot of extras for which you have no use.

Extra Screens and Riddles Free

In case you want more or different screens, just write me and I will send them free. Not a penny would I ask for extra screens and riddles.

I also have a Free Service Department which will separate, clean and grade FREE any mixture you send in. If you've got some impurity in your grain that you cannot get rid of, don't get discouraged. Write me.

Handles all Small Grain and Grass Seed

My 1913 Chatham handles over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc. Takes cockle, wild oats, tame oats and smut from seed wheat; any mixture from flax; buckhorn from clover; sorts corn for drop planter. Removes foul weed seed and all sunken, cracked or sickly grains. Takes out all dust, dirt and chaff. It is also a bully chaffer. Handles 60 bushels grain per hour. Gas power or hand power. Easiest running mill on earth.

Special Corn-Sorting Attachment

Last year I added a Corn-Sorting Attachment, which grades corn so that a *round* or *edge* drop planter drops the right number of grains in 98 out of every 100 hills (in repeated tests at State Agricultural Colleges). Same planters, loaded with *ungraded* corn, make only 65 out of 100 perfect hills. In two months I shipped to Iowa farmers alone 4,000 machines with Corn-Sorting Attachments. Try my Special Corn-Sorting Attachment. *It will increase your corn crop amazingly!*

Postal Brings My New Book

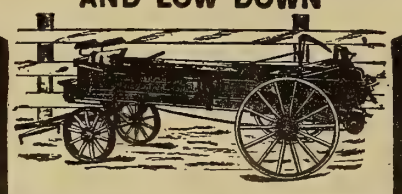
on Seed Selection. Every chapter is highly practical and exceedingly interesting. It shows an easy, simple way to get rid of any weed on your farm; how to separate any mixture of grains—in short, how to get perfect grain for *sowing, feeding* or *marketing*. Send postal *today* and receive by *next mail* my new Book *free*. Address Dept 50

MANSON CAMPBELL CO., Detroit, Mich., Kansas City, Mo., Minneapolis, Minn.

APPLETON

RETURN APRON ENDLESS APRON AND LOW DOWN

MANURE SPREADER



Solid oak, trussed frame; worm and worm gear apron drive, encased, runs in oil; wood or steel wheels.

So simple a boy can run them. Apron works over chilled rollers. Wide seat, comfortable foot rest.

Appleton Manure Spreaders always give long service; spread even, pull easy; because they are perfectly designed and honestly constructed. An Appleton Manure Spreader is a profitable machine for you to buy. Its use keeps your land healthy and in highest productive condition—that means paying crops. Write today for Free Catalog illustrating and describing our 10 styles.

A complete line of machines in stock in your territory.

APPLETON MANUFACTURING CO., 239 Fargo St., Batavia, Ill.

PLANT YOUR TREES WITH DU PONT Red Cross DYNAMITE

Stops First Year Loses, Hastens Development, Improves the Fruit in Quantity, Quality and Color

THE illustrations are actual reproductions of photos of 2-year old Bing Cherry Trees planted same day out of same nursery shipment. Similar results have been obtained generally. The root diagrams show the reason. You cannot afford to plant trees in spaded holes.

Red Cross Dynamite is safely and successfully used by prominent fruit growers for planting, cultivating and regenerating orchards.

Write today for name of nearest dealer, or expert blaster, and Farmers' Handbook No. 105

DU PONT POWDER CO., Wilmington, Delaware

Pioneer Powder Makers of America Established 1802

STARK TREES — Best For Over 100 Years

Four generations of fruit tree growing experience, boiled down, is ready for you absolutely free of charge. Don't experiment with fruit trees of unknown productiveness, uncertain quality. Stark Trees always pay big. The secret is in Stark Brothers' perfect method of growing, transplanting, packing and shipping.

50 Years Ahead of Any Other Nursery in America

Why don't you take advantage of our Special Service Department? All Advice Free to You. We send you free the best scientific methods of preparing your soil for biggest profits; show you how to prune your trees, give you best methods of Stark cultivation; how to spray the Stark way. We make your orchard a winner and a big money maker. Write us at once for Stark Year Book, complete fruit tree literature and statistics. Write today.

28

Stark Bro's NURSERIES & ORCHARDS CO., R. R. No. [illegible], LOUISIANA, MO.

A Record of One Hundred Honorable Successful Years in Business

STARK TREES

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

MODERN GINSENG CULTURE.

To the Editor of The Homestead:

The Panax plant has its best form in Manchuria and Korea if we allow the Chinese people, who are the chief users of the root to be the judges. The American form, which differs a little from the Asiatic, is native to an extensive region adjacent to the great lakes. The plant is found from western New York to the Missouri river, and was in the early days very abundant, but commercial gathering has in many places exterminated it.

The name "ginseng" is supposed to mean "image of man." The forked shape which the growing root sometimes assumes is thought to resemble the human body, and from this fact has perhaps grown the curious, but strong faith that it will cure human ills.

Certainly for ages past it has been used, and very highly esteemed, as a medicine by our brethren in the antipodes. Western physicians of our time do not understand why the Chinese so esteem it, and they insist that it has a physic value only. In other words, the imagination must aid those who use it, the drug should be mixed with faith in the consumer.

But since the culture of the root has become popular among us there are some Americans who have tested its virtues and claim to be benefited thereby. The root is slightly aromatic, and a strong infusion tastes sweetish and mucilaginous.

For sixty years past the pioneer settlers of our central North have dug the native root and sold the dried product to the merchant, and from him it has found its way across the water. The cash value of the American exportation has amounted to an average of a half million annually.

The roots when they are matured at seven or eight years of age, are five or six inches long, and the size of a wienerwurst sausage. But under special conditions the size may be greatly increased. In Asia the culture of the plant has been common for centuries, and it began in America some fifty years ago. It has now taken its place as a staple industry.

About twenty years ago, when there was evidence of a lively boom in ginseng culture, the agricultural department at Washington, issued a bulletin discouraging the business. But this unusual proceeding upon the part of the government farm advisers, while it had perhaps a detterrent effect upon some new enterprise, did not affect the established business. Ginseng growing as an industry is upon a sure footing, and its culture is bringing, to make a conservative statement, as good returns in cash as are realized from the usual farm crops. All over that region which is the naturual habitat of the plant ginseng gardens may be found, and there are very few counties in a half dozen states without ginseng devotees.

Many planters began, indeed, upon a very small scale, and lured by the briliant prospect of eight dollars per pound hoped for immediate wealth. But they soon learned the elementary lesson that profits are always in proportion to the size of the investment.

The man who had capital twenty-five years ago, and sufficient courage of his convictions to invest it in ginseng, has secured good returns, and in some cases enormous profits. Many of the smaller growers have lacked both the means, and the persistence, which are essential to success.

Those who were early in the business reaped large profits from the sale of seed. While the roots have seven years or more, for growth, the plants will seed freely at the third and fourth years. And when the new industry was in the first flush of popular favor, this seed sold at $3 to $5 per hundred—not pounds, but seeds. This was a very timely aid to the cultivator whose patience was sorely taxed in the long wait for profits. But the seed supply outgrew the demand, and that side product of

Put Your Grain in the Sack and Not in the Stack

YOU know that many times there is grain enough wasted in your straw stack to pay your thresh bill. Why? Because you have not insisted upon the best machine to do your threshing. The

Red River Special

saves it and puts the money into your pocket.

Why? Because it employs the only true and certain method of beating the grain out of the straw. All other machines expect the grain to drop out.

The Red River Special **beats it out** just as you do by hand with a pitchfork.

The Big Cylinder, the "Man Behind the Gun" and the uplifting shakers **beat all the grain out** before the straw leaves the machine.

Thousands of farmers are saving their thresh bills by using the Red River Special.

You can, too, if you insist upon a Red River Special doing your work.

Calvin Brown and seven other farmers of Higginsville, Mo., say, "It really does save the farmers' thresh bill by not wasting his grain."

R. F. Lumm, farmer of Percival, Iowa, says "The Red River Special saved all the grain."

You can save yours. Hire a Red River Special. Write for proof.

Nichols & Shepard Co.

Builders of Threshers, Engines and Oil-Gas Tractors

BATTLE CREEK, MICHIGAN

SUTTON'S SEED CORN — ON APPROVAL

Grown on the best land in the United States for maturing seed. Seed picked by experts in fields, during September. All seed scientifically bred and germination is *perfect*. 15,000 bushels hung on wire hangers. Standard varieties, Improved Boone County White Dent, Favorite White, Special Bred Reid's Yellow Dent and Improved Leaming (Yellow.) Every ear carefully examined before crating or shelling. Shelled corn hand tipped and graded. We are largest seed corn house in the world. Three big plants. Write for beautifully illustrated *free* catalog. Address nearest office. Geneseo is in north part of Illinois. Mason City in central Illinois. Write *now*.

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HOW TO GROW IT ON YOUR LAND

"Alfalfa—Wonder Crop," is the title of a new book just issued by us. It contains a fund of priceless information on alfalfa growing secured from many sources; United States Government, State Experiment Stations, the best posted authorities and successful growers. This information was secured at a great cost of time, money and research, and yet it is yours for the asking **without cost.** This book will convince you that your farm has some land on which you can grow alfalfa; it tells how to get results from the first planting, how to select the field and prepare the soil, including fertilizing, plowing, liming, and how to prepare the seed; when to plant, how to plant. It tells you what to do during the growing period, how to get bigger than average crops, and how to cut and cure. This book is worth many dollars to the farmer interested in growing alfalfa, but we gladly send it without cost or obligation of any kind if you answer at once. Don't put it off—write for free book today.

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MORE POTATOES PER ACRE

Think of finding one to eleven $5 bills in the furrow, on every acre you plant. It's been done many times. Plant the spaces you skip, sell the potatoes, and you've got the money. No extra land, no extra work. It costs no more to prepare ground, fertilize cultivate, spray and dig a perfect stand

IRON AGE (Improved Robbins) Potato Planter

This machine soon pays for itself and yet puts real money into your pocket. One seed piece in every space and one only. Uniform spacing. No injury to seed. Ask your dealer to show it and write us for free booklet, *"100 per cent Potato Planting."* We make full line Potato machines, Garden Tools, Sprayers, etc.

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BEST IN THE WORLD

Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

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Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

the ginseng arbor may now be bought at reasonable prices.

Because of the fact that capital and patience are required in this business, many of the small growers are retiring, selling out their beds to the wealthier class, and so the business is concentrating. The general rule holds true here, as in all other human enterprises: The larger the scale of business the more economically it may be managed, and the greater the profits. The more successful ginseng growers of the future will have capital, and will operate upon a large scale.

As a case to the point take the Gilbertson Company. They began work fifteen years ago, and are now the recognized leaders in this industry west of the Mississippi river. Their original plantation is an arbor of five acres, where all the approved methods taught by years of experience are employed. This arbor is high enough to admit of a man walking erect under the shade. The shade is heavy, for three-inch strips are used and only a half-inch is left for light. And the placing of the shades is done with such care, that the most of the rain dripping from the roof falls upon the paths beneath, and not upon the plants.

The beds are laid out in such width as to admit of easy culture. At any given time may be found here beds in all stages of growth, from seeds lately sown, through one and two-year plants up to eight and ten-year roots ready to dig for market.

The estimated value of this five-acre arbor, as it stands is $80,000. Seed is produced here in great quantities, but not for sale, as it is all required for use in the enlargement of their own business, for this arbor is only the beginning of their enterprise.

The company has acquired thirty acres of timber land upon the Cedar river, natural ginseng land, and sufficiently level for practical purposes. The trees remaining are so placed naturally as to furnish sun protection, ample shade for the young plants. The underbrush was all removed a year since, and the land cultivated in preparation for planting. This thirty acres was all planted last September, at the rate of about 200,000 seeds per acre.

For planting, it was laid out in beds, as is usual under arbor culture. for the same care will be required in weeding. The seed was sown six inches apart, and two in a place. This double seeding is found necessary because some seed is imperfect, and fails to germinate. The beds, separated by narrow foot paths are four and a half feet wide, and after they are well prepared, a puncher, handled by two men makes sixteen holes two inches deep at one time. Girls, and women follow dropping seed, which is next covered by a roller.

The methods employed in handling the seed are interesting. When taken from the plant in July or August it is packed at once in damp sand. In about three weeks' time the hull decays and loosens, so that it separates easily as the seed is sifted out. As the seed must not be allowed to dry out, it is again packed in sand where it remains until planting time. Sometimes the seed is sown thickly, with the intention of transplanting when one or two years old.

The roots at one year old are about the size of an angle worm. In the great warehouses of the Gilbertson Company a part of the basement is reserved for handling ginseng. Here were to be seen last fall great quantities of seed ready for the field, and piles of one and two-year roots ready for resetting, or for the market. In one place was a quantity of eight-year roots, fresh dug for the market. This pile, which a horse blanket would completely cover, was valued at $2,000.

As was once customary to have a watchman sleep in the bank vault, so this room was each night under guard, for a robber might easily carry off a thousand dollars' worth of ginseng.

This company is reaching out for all branches of the business. They sell the one and two-year plants at two and three cents each to would-be growers. And whenever a ginseng man of small capital meets with embarrassment and needs to realize they stand ready to take over his venture. In this way it is acquiring small beds in many places.

Mr. Gilbertson is making an effort to improve the variety. There is a difference in plants as usually grown, some having leaf stalks one-third longer than others. It is found that the shorter the stalk the more chunky and valuable the root, so he is developing an improved strain, with the desired short, stubby growth.

When we consider such an enterprise as this company has inaugurated there is a fascination in estimating results. Disregarding the assumption that all estimates based upon hopeful prospects are utterly unreliable, let us figure a little. And we will remember that while liars will figure, it is also true that figures may be so handled as to tell the truth.

Of the 200,000 seeds planted per acre it is expected that fully one-half will germinate. But allowing for some loss and for space taken for paths and shade trees, it is reasonable to expect 80,000 plants per acre to grow and mature. This gives for thirty acres 2,000,000 roots. These roots are expected, when eight years old, and prepared for market, to weigh one-third of a pound each. This gives us 800,000 pounds of the drug, in all, and the market price is $7 per pound. So the total gross value of the crop to be harvested in 1920 is $5,600,000.

It is wise to be moderate in all our calculations, and we will anticipate a partial failure and a decline in price, let us allow 50 per cent for these possible but not very likely losses, and we will still have the very comfortable gross sum of $2,800,000. But over against this there is, of course, an expense account. There are taxes, and interest, rental value of land, and large outlay for labor during the eight years needed to mature the crop. The debt side of the ledger will read something like this:

To 30 acres of land at $200 per acre	$ 6,000
To taxes and rent, 8 years	2,000
To seed for planting, say	10,000
To labor preparing land and planting	4,000
To labor and care, 8 years	5,000
To labor, digging, handling, marketing	15,000
To unforseen expenses	8,000
Total	$50,000

This would seem to cover the expense claims amply, but as this is to be a safe and conservative estimate, let us double the allowance for cost and make the charge for eight years' work, planting, culture, digging and marketing an even $100,000. There still remains the magnificent sum of $2,700,000 as net profit upon the enterprise. But even this is making money too fast, and nobody will anticipate such enormous profits. Let us get

Trees at Half Price

I will sell you, just as I have hundreds of others, my hardy northern grown trees direct from the nursery row at one-half the price you pay agents for poorer stock that has been out of the ground for days or weeks.

My catalog is my salesman. It costs me only one cent to send it to you. You get the saving. It clearly describes and prices my Evergreens and "True to Name" fruit trees—Delicious Apple, Earl Plum, Jones Strawberries and many others.

I stake my reputation on every tree shipped, and personally supervise the work of my employees to see that everything goes out right. That is why I can guarantee my trees to reach you in good growing condition and give satisfaction.

With every tree I sell goes two generations of nursery experience. My father started this nursery in 1869, and I have devoted my entire life to building it up.

100 TRANSPLANTED EVERGREENS $7.50 EXPRESS PAID

A good windbreak of my hardy Northern-grown Evergreens, costing only a few dollars at my bargain prices, will add $1,000 to the value of your farm.

My Evergreens will give satisfaction because my 25 years of experience has taught me how to handle Evergreens, and you get them direct from me before they have been out of the ground more than 18 to 36 hours, depending on where you are. They have been transplanted and root-pruned, assuring them an abundance of fibrous roots, nature's guarantee of life to young trees.

Some people think that Evergreens are hard to start. This is because they have bought of traveling agents whose trees were out of the ground two or three weeks. My trees are shipped direct from the nursery row in well-packed air-tight casings. They are backed by the fairest guarantee of any nursery in the United States and by my 25 years' reputation as Iowa's greatest Evergreen specialist.

Send for Catalog. Send for my catalog containing special bargains of Evergreens, "True-To-Name" fruit trees, shrubs and bulbs, all of which I guarantee to prove hardy or cost you nothing.

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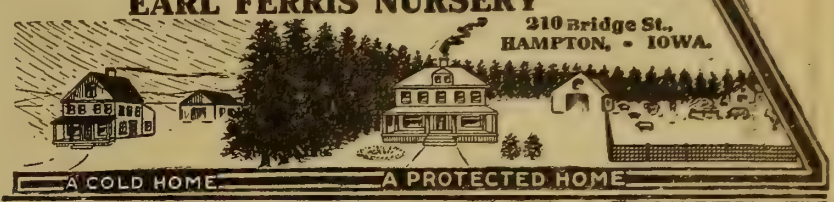

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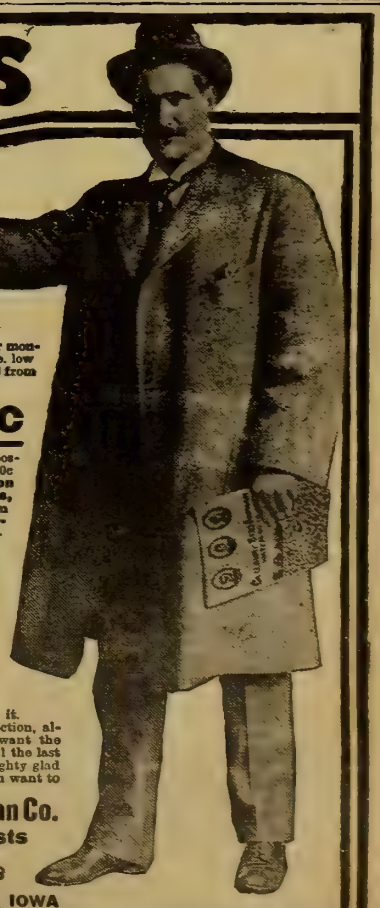

GENUINE—UNADULTERATED

Listen Just One Moment

I want you to fully realize that no matter how valuable your land; no matter how much you hoe, weed and dig; no matter how much the sun shines nor how much it rains; nor how much you irrigate your land. Your efforts are all in vain and your money lost if you get cheap seed. Why take a chance—even if you get your seed for nothing—of sowing stale, low germination test, inferior seed when you can get **Absolutely Pure, Genuine and Unadulterated Seed** from us. We sell only one quality—the best; no second or third qualities.

BIG 50c COLLECTION, 10c

Here is the most valuable seed offer ever offered by anyone. Just send us 10c to help pay postage and expense of shipment and we will send you a big envelope containing five regular 10c packages of our best seeds. This package will contain one full 10c packet each of **Champion Pickle Cucumbers, Matchless Tomatoes, Prize Head Lettuce, Superb Globe Onions,** and a **Large Packet** of **G. B. Mixed Sweet Peas** and never has anything like it ever been offered before. Then here is another thing. The **large envelope in which these five varieties** are packed will be accepted the same as 25c on all future orders you may send in amounting to $1.00 or more. Now, remember, we could not afford to send you this big 50c collection at any such price if it were not for the fact that we know you will be **pleased** with the **pure seed** that we send you and that **we will get your future orders.** Now write us today just enclosing 10c in your letter and you will be delighted with the results.

Get My FREE Seed Catalog IT IS NEW, ORIGINAL AND DIFFERENT

In my left hand I am holding the most original, unique and different seed book that ever has been published. It is profusely illustrated with garden, flower and field scenes and contains the choicest assortment of pure genuine, unadulterated farm, field, garden and flower seeds that you have ever seen in a catalog, and what is more, you can save a lot of money by ordering from this book. Now, remember, this book is absolutely free and will be sent you postpaid on receipt of your request for it. And don't forget at the same time to enclose 10c for the big 50c collection, although of course you are welcome to the catalog even if you do not want the big seed collection. Now don't put off ordering until the last moment. Spring will soon be here and you will be mighty glad to have these seeds on hand at just the moment you want to use them.

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THERE'S a wide difference in quality between Devoe & Raynolds Co.'s Pure Paris Green and a good deal of the paris green offered you.

Use "Devoe" and take no chances on the poorer articles.

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BUY NEW PEPSEECO Brand "CREAM of the CROP"

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Go to your dealer —insist on PURE Clover Seed—take no chances with weed pests or of a poor crop. Buy seed you know you can depend on.

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Gigantic Tomato SEEDS FREE

Here is the king of all Tomatoes, largest and most productive, fruit often weighing 3 to 5 lbs., each, and 100 to 150 lbs. have been grown on one plant, very smooth, few seeds, solid all through, ripens early, being a handsome red color. A few plants will produce more Tomatoes than any family can use.

OUR SPECIAL OFFER

We want every person who uses seeds to see our 1913 Seed Book and try this Gigantic Tomato and we will send a sample packet for trial, with Seed Book Free. This book is full of new Vegetables, Fruits and Flowers.

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For Windbreak Profits
Protect Stock, Crops, Buildings

Get bigger profits, from bigger crops. Keep barns warmer—save fuel, save feed, save money—*make* money. Hill's double transplanting and root pruning insures certain growth. You can have a Hill Evergreen Windbreak of *guaranteed* quality *at very low cost.* Free evergreen book tells how. Also shows 50 big bargains. 56 years experience—biggest firm of its kind in the world. Fifty million evergreens in stock. Get *Hill's Low Prices.* Write to

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CLOVER AND TIMOTHY $4.50 Per Bu.

INVESTIGATE—Best and Cheapest Seeding Known. Alsike Clover and Timothy mixed. Fully 1-3 alsike, a big bargain. Greatest hay and pasture combination grown. Write for Free Sample and 76-page catalog and circulars describing this wonderful grass mixture. Beats anything you can sow and ridiculously cheap. We handle only best tested recleaned seed guaranteed. Write before advance.

A. A. BERRY SEED CO., Box 603, Clarinda, Iowa

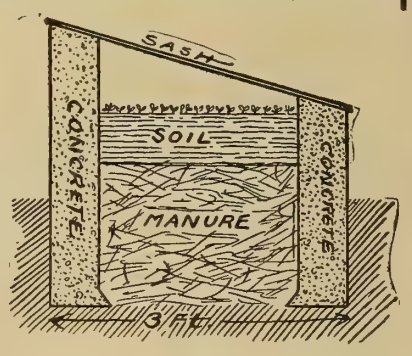
down to a common-sense basis and double the estimated expense and again divide the gross receipts by two—$1,400,000 minus $200,000 still leaves a $1,200,000 gain.

We fancy that most business men would be satisfied with that, which is an annual interest return of 50 per cent upon the capital invested. As will be noticed, even reasonable calculations in ginseng culture look wildly impossible. The most conservative convey the impression that the imagination, like a runaway horse, has got the bit in its teeth and cannot be safely guided. Yet notwithstanding our skepticism, facts will continue to be facts for some time to come at least. We cannot all grow ginseng, but we can all admire the energy and the foresight of those who do it. And also we can see with half an eye that their faith in their business is well grounded.

M. E. Hinkley.

Concrete Hotbed.

Where the hotbed is to stand in the same place year after year, one made of concrete is to be preferred. It may be as cheaply constructed, and is much more satisfactory than one made of lumber. The excavation should be made the required depth, width and length, then the forms made of inch lumber, building up a foot higher on the north than the south side. A wall six inches thick will be strong enough. In finishing up the back and front walls give them the proper slope



so that the sash will fit snugly. The heavy concrete wall will give more protection than could be got with a wooden wall, and will last for a lifetime, whereas wood or lumber will have to be renewed after a few years. The material exclusive of the lumber for forms will cost in most places about $3 per cubic yard, making the cost per square foot of a six-inch wall less than five cents. Any kind of lumber may be used, and the labor need not be skilled.

FERTILIZERS FOR THE FLOWER GARDEN.

To the Editor of The Homestead:

If you want to increase the size and brilliancy of your roses, both in flower and foliage, a liberal dressing of bone meal in the spring before growth begins, or any time during the summer for that matter, will be beneficial. Stir the bone meal into the soil as far as the branches extend. Bone meal is a safe fertilizer, as its elements are slowly released, lasting over a long period.

Where quick effects are desired in feeding roses or other plants that show a sign of starvation, or lack of nitrogen, as is evidenced by slow, hard, close-jointed growth, nitrate of soda is a good fertilizer to use. One ounce to a bucket of water, or one pound to a barrel, is about right. Do not water the plants with this when the soil is very dry, or if the plant is diseased. Apply thoroughly once every ten days at first, and shorten the periods as the plants gain strength.

Strong ammonia, used in the proportion of one pint to the barrel of water, will be found a good nitrogen fertilizer. There is danger in using it too strong. A lady phoned me one day to find out what ailed her fern. She said a friend had told her to water it with ammonia water, and when she had done so it soon began to wilt. She had used one teaspoonful to the pint of water and applied it when her fern was very dry. She should have used a teaspoonful to the gallon. Her fern died.

Fresh cow manure cannot be excelled for making liquid manure, and it is safe. Mix a half bushel or more of cow manure in a barrel of water

Big Money in Oats
AND HOW TO GROW THEM

I want every reader of this paper to write me for my new book, "Big Money in Oats and How to Grow Them." Just mail me a postal or a letter giving me your name and address and I will send you this valuable book together with a free sample of our pure Canadian Grown Regenerated Swedish Select Seed Oats. This book was written by Wm. Galloway, Professor M. L. Bowman and other seed experts. It contains priceless information worth real money about how to make big money in oats, how to make a seed bed, how to start a seed patch, how to make oats stand on rich ground and how to grow a bumper crop of oats. It is profusely illustrated by photos taken from actual life and contains, besides, facts, figures and opinions given by farmers all over the country. Now, remember, this book is **free** for the asking and we will send it to you together with a free sample of the oats or, better still, enclose 10c to cover packing and postage, and we will send you an extra big sample packet, or for 25c we will send you a triple size and for 50c a packet three times the size of the 25c packet. In addition to this, after you have had a chance to examine the sample oats, if they suit you, as I know they will, you can return the empty packets to us and we will accept them the same as cash in part payment on any future orders you may send in. Can you beat this offer? Never.

Feed Your Old Oats to the Hogs

Better feed your old oats to hogs or the horses, or sell them. You can afford to do it when you stop to figure up the net results between our seed and ordinary seed. For instance, which is cheaper—Genuine Imported Regenerated Swedish Select Seed Oats that germinate nearly 100 per cent—every oat sprouting—Fresh, Hardy, Full of Life and Vitality—or oats that are half hulls full of weaklings, that plainly prove they are inferior and run out? Our thoroughbred Imported Canadian oats cost a little more than common seed at the start, but if you pay twice the price and receive common seed for nothing, our oats would be cheaper and bring in the most profit. It's net results that count. Here's the proof.

J. E. Andrews, Dassel, Minn., writes: "Yielded 105 bu to acre." Oscar Kling, Alamosa, Colo. writes: "Yielded 141 bu. to acre." H. Hendrick, Roanoke, Ill., writes: "Got 95 bu. from one acre." A. J. Barber, Clinton, N. Y., writes: "Galloway, you are right. Last spring I bought some seed oats of you Just threshed. Yielded 80 bu. per acre."

Write For New Free Oats Book

We'll tell you how to put your oats growing back on a money making basis—Discard your old in-bred seed oats and start your crop this year with our Regenerated Swedish Select Seed Oats. They'll make you big money.

You can raise 75 to 140 bushels to the acre with our seed. Imported direct from Canada. Extra fine. Send for free sample. It speaks for itself. Our customers who bought from us last year raised from 75 to 140 bushels to the acre against one-eighth to one-half as much from their old seed, which proves our statement that farmers need a change of seed oats in this country.

We specialize on extra fine Seed Oats on our big Canadian Farm—new clean land—and grow the Genuine Regenerated Swedish Select Oats which have broken all records. Specially bred to suit climatic conditions in the U. S. Matures from 12 to 15 days earlier than other kinds. Extra large white berry. Thin husk. Stiff straw. Tremendous yielder. Rich in protein, and just the oat you have been looking for.

Why not start a seed patch on your farm this year? It has paid others big. It will pay you. Write us early. The demand for our seed is tremendous. Last year we had to return orders we could not fill. Write early. Demand tremendous. Supply limited.

Address WM. GALLOWAY, Pres., Seed Oats Specialists
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The 1913 "Flour City" surpasses all previous models in mechanical efficiency. It embodies all the desirable features that enter into the construction of a successful farm tractor. Its development has been guided by the requirements outlined by the progressive farmer, along the most conservative lines. Its reputation is of the character that comes through actual work in the field. It stands for QUALITY, EFFICIENCY and SERVICE. Built in three sizes, 20, 30 and 40 H. P. Look up the records of the "Flour City" before placing an order.

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Trojan "More-Corn" Sorter
Wonderful Time Saving Money Making Invention

SAVES THE GOOD SEED, DISCARDS THE BAD. Increases both quality and quantity, sorts corn in uniform sizes so your planter will drop 3 good kernels to a hill 99 times out of 100. None other like it. Your boy or girl can operate it. Just fill the hopper, turn the crank and the TroJan does the rest. PAYS FOR ITSELF ON 4 ACRES. A small investment that is guaranteed to pay for itself on 4 acres. The price is cheap because it is sold direct from factory to you. Get my special low freight prepaid price, and my special free trial offer and guarantee. Write for illustrated circular and price today. Address

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do all of the sowing, hoeing, cultivating, weeding, furrowing, ridging, etc., in any garden, with better results, far less work and some real pleasure for the operator. 88 or more combinations at $2.50 to $12.00. Ask your dealer about them and write us for new booklet, "Gardening with Modern Tools" also copy of our paper "Iron Age Farm and Garden News"—both are free.

BATEMAN M'F'G CO.
Box 1482 Grenloch, N. J.

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FRENCH RADISH
early, crisp and tender.

Dwarf Giant Tomato
Extra Early

FOR TESTING

Dwarf Giant Tomato. Grows two ft. high produces enormous size Tomatoes. They often weigh one or two pounds each: color crimson: a wonderful bearing plant.

We will send a trial package of each to any one who writes, also our new 1913 Seed Catalog included (4 colors)—all FREE. Write Today.

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Towers' System of Surface Culture

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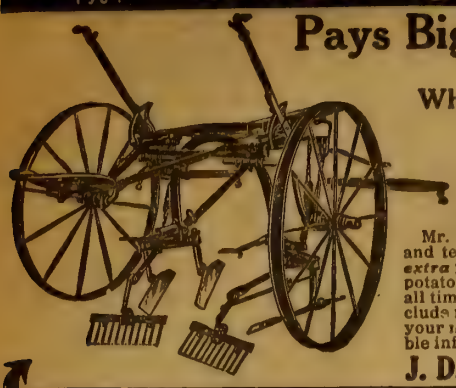

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stirs every inch between the rows, makes a dust mulch (which saves moisture for the plant), kills weeds, prevents firing of corn, and does *no damage* to any of the crop *roots* (as do "pointed shovels").

Mr. Farmer:—Let us prove to you by evidence of scores of experts and tens of thousands of practical farmers that it *pays for itself* in *extra* yield of corn it tills in one season. It is great also for cotton, potatoes, sorghum, etc. The "TOWER" is the only cultivator needed all time. Write for our *free* literature of facts and figures which include rules for handling and increasing your corn crop, etc. Send your name and address today. A postal card brings all this valuable information. Address the manufacturers,

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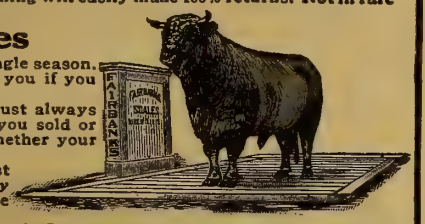

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good crop of celery if well cared for, but sandy loan is perhaps the best. The land should be plowed at least several weeks before planting. I get bettor results, however, when I plow in the fall and leave the soil exposed to the action of the frost. In the spring when the land can be easily worked up I go over the rough-plowed surface with a disk and then drag and harrow until the soil is smooth and loose to a depth of at least six inches. I am very careful to have the surface even. At the time the surface is prepared a good top dressing of manure is worked in.

As a usual thing I order my seeds from a seed man early so as to get good seed and I make no objection to the price if the quality is good. High prices with high quality is better by far than low prices and no crop. After planting the seed I water them enough to keep the soil moist and see that they get plenty of sunshine. I never allow the ground to become dry for this retards growth. If cultivation is kept up it is seldom necessary to apply water in the field, but while they are yet in the boxes they should be watched carefully. About five weeks after planting I transplant the seedlings to trays. This I find has a tendency to form side roots and where double transplanting is practiced it does away with thinning and a consequent waste of many plants. The second time I remove the plants they are placed outdoors in the field and I am very careful not to destroy any part of the plant, especially the roots. Then tender young plants are placed in holes made by a roller or small cart wheel with projecting pegs. I plant in single rows about three feet apart and have the plants from four to five inches apart in the rows. By this method I can cultivate them with a horse cultivator or with a wheel hoe and can bank them more easily. After they are placed in the field I cover the soil about the plants with well-rotted horse manure. This not only keeps the soil in good condition, but helps the growth on account of its qualities as a fertilizer. If these means are resorted to only shallow cultivation is necessary. Also no cultivation by hand is necessary except to pull out weeds that may happen to come up. The manure mulch holds the moisture and the soil will require only such cultivation as is necessary to keep the soil loose and free from weeds. Watch for insect enemies the most common of which are the grasshoppers, the celery leaf tier, the celery caterpillar and the tarnish plant bug.

The next important step is the blanching process. I tie the plants up so that they are straight and compact, then pull away some of the outer leaves and place tiles over them. The leaves will draw up to the top of the tiles and thereby shutting off the light from the stem of the celery plant. This may sound expensive, but is not since the tiles can be used season after season and the better grade of celery commands a better price. The tiles keep the plants cool during the hot part of the day and keep them tender. As soon as the celery is nice and white I trim, clean and pack them in bunches for the market. I aim to make them very attractive. If a good market is not ready I pack them just as they come from the garden in moist sand in a well-ventilated cellar. They will stand quite a little frost, but should never freeze. Last year in our home market I sold 1,400 bunches at twenty-five cents per bunch and received a net profit of over half the amount received besides having all the celery we could use at home.

All localities do not demand the same variety and any one who plans to grow celery for the market should first learn what his locality demands. It is producing a product that the people like on first trial that counts for future profits. L. Marshner.

Wisconsin.

and let stand several days until it ferments, stirring occasionally. Draw off the liquid and dilute until it is a light brown, or straw color. Saturate the soil around your healthy plants with this solution once a week and you will be surprised at the results.

Cannas, caladiums and bananas want a very rich soil and plenty of water. A depression around these plants filled with manure and watered freely will give wonderful results, well worth the trouble it takes. Half-decayed horse manure is excellent for this purpose, as it is warmer than cow manure. A few droppings from the henhouse mixed with the horse manure greatly increases its strength.

Be careful how you mix manure in the soil when setting out plants or shrubs, for it is very detrimental to many plants, and beneficial to very few, unless it is so decayed it resembles dirt, and then it should be thoroughly mixed with the soil you use. Tender rootlets are quickly injured by contact with decomposing manure in masses. L. H. Cobb.

CELERY FOR THE MARKET.

To the Editor of The Homestead:

Celery has now become one of our most common garden crops. The demand for good, tender celery is greater than the supply and as a consequence good prices are offered. Almost any fertile soil will return a

SOAKING SEEDS A GOOD PLAN.

To the Editor of The Homestead:

We often give seeds a good soaking before planting, especially those planted in early spring, as the season at this time often is unfavorable for out-door planting, on account of the chill in the damp soil causing the seeds to rot before they have time to germinate.

Then where the seeds are soaked before planting, they will propagate

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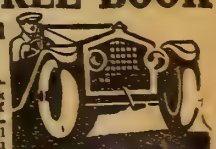

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SEED CORN Golden Row, Reid's Yellow Dent, Nebraska White Prize and Silver Mine. Gathered early and dried on racks in our furnace heated seed house. Write for 27th annual price list.
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SEED POTATOES FOR SALE—Pure-bred, best varieties. Address Guy Anderson, Ogdensburg, Wis.

stronger plants than those seeds which are deposited ir the soil while dry and lie there till they absorb moisture, swell and sprout. This is especially true of such hard-shelled seeds as beet, cane, bean, etc., as the tough, outer covering is hard for the tender sprout to penetrate, and many times conditions thus check and ruin the germinating process entirely.

We soak the seeds to be planted in a basin of warm water, immersing the seeds into it and leaving there for from twelve to twenty-five hours, according to the kind of seed, their adaptability to soaking, signs or germinating, etc. As a general rule, we soak the grains till they swell and begin to show where the sprout will burst out; sometimes we even carry on the process till the grain sprouts, and this is a good plan where they are not so tender they would break in handling while being planted. This applies, of course, only to moderate-sized plots that are planted to truck, garden stuff, etc., as the dampening of the seeds will not admit of their being placed in a drill or planter and deposited in the earth.

M. Coverdell.

Cole county, Mo.

RAISING GEESE.

To the Editor of The Homestead:

Of all the side lines on the farm we find none that gives better returns for the time and money invested than geese. They are the hardiest fowl upon the farm and do not require much of any outlay for buildings. The greatest expense is for pasture. They must have pasture and if the flock is large quite a piece of land will be necessary. The greatest objection is that the pasture is practically spoiled for other stock. This can be arranged, however, for there is pasture enough for a large flock along the road of almost every farm which ordinarily goes to waste. This might just as well be used for goose pasture and thus turned to account. Now the only objection left is the disagreeable noise they make, but we soon get used to it. Geese will not thrive under pampering. Close housing is a positive mistake and failure will surely result where it is practiced. Fresh air is even more important in rearing geese than in any other live stock venture. Geese do not need or want much grain and if left to themselves will graze like sheep or cattle and thrive. They may be raised in pens if not crowded and if green stuff is cut for them, but not with the same success as when allowed to do their own grazing. Breeding stock or such intended for that purpose should be allowed free range at all times, but market geese may be penned and fattened as soon as their wings and bodies are completely feathered. Geese are long lived and good breeders can be kept for a long period and produce much profit. Two geese are enough for one gander and we sometimes get better results in pairs. If one wants to start immediately into the business old breeders should be purchased in the fall as they are slow to get accustomed to each other and their new surroundings. Old geese are the best breeders. If a start is made with young stock one must wait until they are three years old before best results can be had, but it is worth while for one can always know the age of their breeders and suitable stock can be started with.

After they are known we mark breeders with leg bands and thus distinguish the males from the females. This cannot always be done with the eye. These bands come in handy in the fall too when it is hard to distinguish the old from the young. Geese usually start laying in February and lay about twenty eggs and then set. We remove the goose to a box giving nothing but water for a few days and then if put back she usually starts to laying again in a few days. There are many, many farms on which geese could be profitably introduced and they would become an extra source of much appreciated income. Every year we have a nice little income from our flock which grazes along the roadside. This is nearly all clear profit for the rearing costs us little. C. J. Griffing.

Ask your neighbor to subscribe to The Homestead.

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Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.
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JUNG Jack Rose Early Tomato Seed FREE

In order to acquaint you with the high quality of our Farm, Garden and Flower Seed, we will send a packet of our Jack Rose Early Tomato seed absolutely Free if you send a 2c stamp to pay postage. We will also include a copy of our illustrated bargain list catalog. It's a money saver. Send today.
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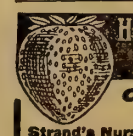

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You have seen cheap buggies get shabby and go to pieces quickly on our heavy, rough Middle West roads. That is wasting good money and you don't want that kind of a buggy. It costs a little more to put the best materials and workmanship into a **Kratzer Buggy**, but you get a good, light running, comfortable, fine buggy that will give you 10 or 15 years steady service.

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IOWA'S LEAD IN LIVE STOCK AS SHOWN BY RECENT STATISTICS.

According to a statement prepared by the Iowa Department of Agriculture Iowa's supremacy in the live stock field is more marked in this period of high prices than ever before. The Hawkeye state leads all other states in the number and value of her farm animals. The figures up to January 1, 1913, have just been announced by the United States Department of Agriculture.

The total value of Iowa live stock January 1, 1913, was $393,482,000. The state exceeds her next nearest competitor, Illinois, in the value of her live stock by $55,492,000.

Iowa leads all of her sister states in the value of her horses and also in the value of her swine. She is first in beef cattle with the exception of Texas. She leads all of the corn-belt states in sheep, but does not have the sheep that many of the far western states show. In all lines of live stock, however, she is so strong that the sum total surpasses that of any other state in the Union.

All of the swine in twenty-eight states of the Union do not equal in value those of the state of Iowa. The territory which includes all of the North Atlantic states, all of the South Atlantic states and all of the far western states, has swine to the value of $101,884,000, while the swine of Iowa are valued at $104,640,000. In fact Iowa has more than 14 per cent of all the swine in the entire United States and in value they amount to more than 17 per cent. Iowa's population is only 2,250,000, while that of these twenty-eight states is more than 50,000,000.

Beef cattle are comparatively scarce in Iowa, now, as is the case throughout the entire country, but the Hawkeye state has more beef cattle than all of the North Atlantic states combined. She now has over 2,607,000 beef cattle on her farms. The annual marketing of beef cattle at the seven principal markets of the United States amount to 8,000,000.

Prices for live stock are high. Horses in Iowa are averaging now $120 per head while the average price in the past ten years has been $96 per head. Beef cattle average $33 per head while the ten-year average is $22.30. Swine averages $12 per head here in Iowa while the ten-year average has been $8.60 per head.

These figures show that Iowa live stock products go a long ways toward feeding the world. And this, too, at a time when the demand is great and the products scarce.

DEATH OF CHARLES H. GARNER.

Charles H. Gardner died suddenly at his home at Blandinsville, Ill., February 13th. Mr. Gardner was for several years one of the most prominent Aberdeen Angus breeders and showmen in the country. A decade ago his bull, Rosegay, was one of the sensations of the show rings, and Mr. Gardner's herd was one of the strongest on the circuit. Some six years ago he dispersed his cattle at public sale, and since that time has devoted his attention to the carrying on of farming operations at his Blandinsville farm. He is survived by Mrs. Gardner.

HAMPSHIRE SWINE ASSOCIATION ELECTS OFFICERS.

At a meeting held recently at Washington, Iowa, the Iowa State Hampshire Breeders' Association elected officers for the ensuing year. Mr. George T. Pearce, of Bloomfield, Iowa, was made president and J. E. Beckendorf, of Walnut, Iowa, secretary and treasurer. The breeders present at this meeting were enthusiastic over the rapidly increasing popularity of the breed and the year 1913 is expected to eclipse all former records.

An electrical engineer hit upon a good scheme to keep his automobile in shape for winter service. During the cold weather he keeps a sixteen-candle-power incandescent lamp, of the old carbon filament type, burning inside the engine hood to prevent the raditor from freezing while the machine is standing in the garage. Not only does it prevent freezing, but it keeps the engine warm so that it can be easily and quickly cranked.

Better Than Money In the Bank

is money put into good paint.

Good paint will earn you a far bigger dividend on your investment than the paltry 3% or 4% which banks allow.

Good paint, from the day it's put on, adds every penny it costs or more, to the value of your buildings. Oftentimes it increases property values 10 to 33⅓%.

Well painted buildings are a delight to the eye and a pride to the owner. What better enjoyment can money bring?

Good paint is not expensive. But it protects and preserves property that is expensive and saves untold expense in indefinitely postponing repair and rebuilding.

Invest liberally in paint—but be sure you get **good** paint. Otherwise it will be a disappointment instead of an investment.

You can **bank** on the goodness of

Lucas Paints

They are as sure to be good quality as U.S. dollars are sure to be worth 100 cents. Good paint materials are as standard in value as gold. Our methods of selecting good materials and combining them into paint are as standard as the methods of coining gold dollars, too. We never guess or take a chance. We select our materials according to chemical analysis. We take no one else's word that they are pure and right, but **prove** them ourselves.

Brains, Experience, Equipment Count Most in Paint Making

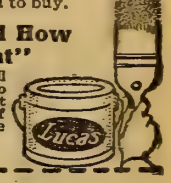
Our experience dates back sixty-four years. Our men in charge have had twenty-five to forty years experience with us. They are the best paid, most careful and loyal force of paint-makers anywhere. The equipment with which our huge plant is filled is the most modern, efficient and dependable in the country.

64 Years' Experience Concentrated in Lucas Paint

Our established standard is the finished perfection of 64 years' of paint-making. Every batch of finished paint is compared with **standard** for color, working quality and strength and **must** match **perfectly.** It is all this greater experience and brains, all this mistake-preventing inspection, that makes "Lucas" mean **certain satisfaction** on a can of paint, and that makes "Lucas" the kind of paint it will pay you to buy.

FREE BOOK "When and How to Paint"

tells the important things to know when buying paint, varnish or enamel. Will help you select the **right** paint for your house, buildings, etc.--tell you how to refinish furniture--how to enamel an iron bed, sink or bath-tub--how to paint screens, porches, pantry shelves--farm machinery--vehicles--and dozens of other things. You'll keep this book always as a reference book. Send the coupon today for a copy. Be sure to give the name and address of your dealer.



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Not a cent until the mill has made good. Back at *our expense*—if it isn't the best, most economical grinder you ever saw. Write for details, stating H. P. of engine. **Leiz Mfg. Co.**, 123 East Road, Crown Point, Ind.

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Most stomach troubles, rheumatism, malaria and typhoid are due to drinking polluted water. This Sanitary curbing keeps water pure. Lasts a lifetime. Economical. Easy to install. Quicksand or any soil. Fits any well. Always bright, tight and clean. For wells, pits, springs, reservoirs, etc. Write direct to factory for catalog. Address Northfield Iron Co., 118 Water St., Northfield, Minn.

Harvey Bolster Springs

prevent damage to eggs, garden truck, fruits, live stock on road to market. Make any wagon a spring wagon. Soon save cost—produce brings bigger prices—wagon lasts longer—horses benefited—thousands in use—"my wagon rides like auto" says one. Get a pair at dealers. If not at dealer's write us. Insist on Harvey's. 40 sizes—fit any wagon—sustain any load to 10,000 lbs. Catalog and fistful of proofs free.

HARVEY SPRING CO. 734 15th St., Racine, Wis.

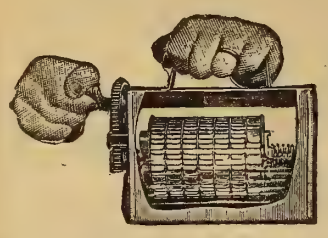
Clarke's Hog House

Prevents disease, destroys lice. It's indestructible—will last a life time. It's scientifically constructed to **Save All the Pigs.** Made of all galvanized, rust-proof, extra heavy metal with a patented door. Can't be broken or get out of order. You can roll Clarke's Hog House anywhere and open the top of it to let the sunshine in. **Write for prices.**

Ben Hur Mfg. Co., 76 Main St., Crawfordsville, Ind.

Wash Your "United States" Cream Separator Mechanically

This System is Revolutionizing the Method of Cleaning Separator Bowls

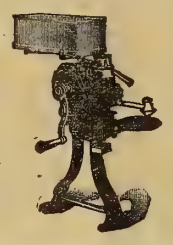


The United States Cream Separator is best adapted for mechanical washing, owing to the scientific arrangement of the skimming sections which drive the washing water with great force through the skimming device, actually scrubbing all parts of the metal.

The mechanical washing is made still more effective by the U. S. **non-rusting** skimming sections of **nickel silver** and by the absence of obstructions in which or behind which milk and dirt can lodge.

By the use of the U. S. Mechanical Washer a United States Separator is cleaned in practically **half the time** of other separators, besides saving strength and making the work far more pleasant. The turning of a crank washes the skimmer.

In addition to its easy cleaning feature the 1913 model "United States" is one of the **lightest running** separators on the market, due to a reduction of the bowl diameter nearly one-half that of older models and to improved gear construction, and is admitted the closest skimmer, a fact backed by the **World's Record** won in an open contest in which all separators were allowed to enter, embracing **fifty consecutive** runs, lasting over **thirty days** and covering milk from **ten different** breeds.



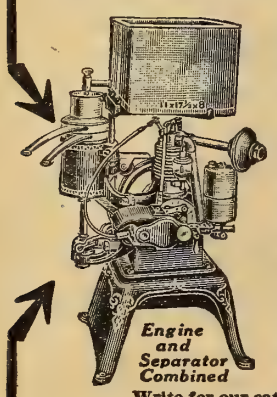
Our catalogue describing these and other big features is free for the asking. Get one from your local U. S. dealer or write us today.

VERMONT FARM MACHINE CO.

Bellows Falls, Vt. **Chicago, Illinois**

15 Distributing Warehouses from Coast to Coast

"AUTOMATIC" CREAM SEPARATOR Magneto Equipped



Engine and Separator Combined

This is our latest improvement. Protects ignition of the little gasoline engine even better than the battery and coil system hitherto used with excellent results. The "AUTOMATIC" is now more automatic than ever. Not even a battery to renew nor a coil to adjust.

The Engine is a Little Wonder

It is only a ½ horse power but has double the capacity needed. Compactly built into the separator itself. Starts dependably, by the simple pulling of a cord. The engine will do any work on the farm that man power can do. And it won't balk. The self regulating gasoline feed keeps it running, whatever the atmosphere or load.

It Runs for Hours Without Watching

There is nothing to watch but the fuel supply, and that is good for a six hours' steady pull. The "AUTOMATIC" requires no cranking. It skims while you milk. And it skims closer than can be done by hand power.

Write for our catalog No. 7. It is filled full of practical facts about the use of gasoline power in a cream separator. This is information which every up-to-date dairyman should have.

STANDARD SEPARATOR COMPANY, POST OFFICE BOX K-33 **Milwaukee, Wisconsin**

$2 The Price You Get for About 8-lbs. of Butter Puts This Big Fine SEPARATOR in Your HOME

Then the machine itself will earn the other easy payments before they are due. You have the machine to use twice a day on your farm. You get **one-fourth** to **one-third** more cream—have fresh, warm skim milk for the calves, pigs and chickens—make work easier for the women folks and before you realize it this big money maker is all paid for out of your extra cream profits. You don't feel the cost at all, especially at our low factory-to-farm prices of only $24 and up.

NEW BUTTERFLY

$24 and Up

New Butterfly Cream Separators are sold **direct from the factory to you.** No agents' commission—no dealers' profits to pay. No interest—no extras. You save half. For example—$24—(payable **only $2 down and $2 a month** for 11 months) buys the New Butterfly Junior No. 2—light running, easy cleaning, close skimming, durable. **GUARANTEED A LIFETIME.** Skims 95 quarts of milk per hour. Made also in four larger sizes up to No. 5 1-2, shown here. Free colored folder tells which size you need.

30 DAYS' FREE TRIAL — LIFETIME GUARANTEE

We ship any machine we make on 30 days' FREE TRIAL—allow you to use it on your own farm—test it in every way. If you are not fully satisfied, send it back at our expense and we will refund all you have paid, together with *freight charges both ways*, so you will not be out one penny. You can't afford to miss this opportunity to get a cream separator. You take no risk. Write for FREE CATALOG FOLDER and Factory Price List TODAY.

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The Silo That Won!

We admit it was no easy matter to put the Saginaw at the top. The greater part of seven years passed before Dairymen and Stockmen came to know the **Saginaw** as the one best Silo. During those seven years, we popularized the All-Steel Door Frame; and we designed the now-famous Inner Anchor; then the Saginaw Base Anchor; and the Angle Steel Rib, which marks final perfection in Silo building. In those seven years we've grown from one small Silo plant to five huge, modern Silo Factories. Our sales in a single day have totaled 587 Silos.

The Saginaw stands strong and immovable as a big City Skyscraper. No storm can twist it or tilt it or shift it on its foundation. And every pound of Silage that goes into a Saginaw comes out bright and clean. That's why leading farmers choose it.

Write! Our latest Silo Book is ready—the best we've ever had. Send for it and you'll see why experienced Dairymen and Stockmen everywhere are putting up Saginaws. Postal sent now brings handsome Book 34, by return mail.

The McClure Company (formerly Farmers Handy Wagon Company)
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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

HOW TO BEGIN THE DAIRY BUSINESS.

To the Editor of The Homestead:

The old adage, "Be sure you're right, then go ahead," is directly applicable to the case of the man who is going to begin the dairy business on a more or less extensive scale. To get a good start means that success is at least well assured in almost any undertaking, and I shall completely ignore another old saw which suggests anything different about endings under opposite conditions.

The project should be talked over in the family. The wife ought to have a chance to express her opinion, and her ideas may usually be depended on to be not far out of the way on any question of importance. If there are growing boys in the family it will be well to talk the matter over with them also, for their assistance will be needed in the milking and care of the cows. If there are no boys, is there other help which can be relied upon by hiring or will the owner have to do most of the work himself? Is there a shipping station conveniently located or is there a good market other ways, or is there a cheese factory or creamery within a reasonable distance so that long hauls may be avoided? Are the roads reasonably good between the farm and the place where the milk will have to be hauled? At seasons of the year when the roads are bad this means much to the man who must travel them once every day, rain or shine. If there are others on the route and they combine to hire a man to do the hauling or take turns in doing it themselves this means heavier loads to haul, all of which works into the convenience or inconveniece of shipping the milk. These things having been favorably passed upon, let us see what suggestions will help the man who is just beginning in the dairy industry.

He must not forget that upon himself individually rests the responsibility to a very great degree and his must be the brain to run the business end of it. Moreover, he must be a man with a keen interest in cows, a student of cow nature and something of a scientist to boot, for the day of scientific farming is here and will not and cannot be ignored. In order to succeed, he must know or be willing to learn how to formulate a balanced ration. He should be familier with such subjects as deal with carbohydrates and proteid, and know where to find them in the various foods grown upon the farm, as well as purchased, and how best to combine them as a ration for the animals. Yet to the man of ordinary intelligence there is nothing of a scentific nature connected with the undertaking that need deter him from entering upon it. It will sharpen his wits, it will get him to thinking, and that is exactly what farmers need to do.

The next step is to decide upon the breed of cattle to keep. If he is a poor man financially, buying high-priced stock may be out of the question, although if it can be in any way managed the purchase of one or two such animals will prove a good investment. A good way is to buy a young calf or two of the breed selected. These quickly grow to maturity, and into money also. A chance to get a calf cheaply may many times be found through people in town who keep but one cow for family use. Another way is to buy an aged cow of good breeding, which can usually be gotten cheaply. This plan is not always satisfactory, as such animals are very likely to be shy breeders. Having tried both plans I would recommend the purchase of well-bred calves, heifers, of course, which can be had at moderate prices. I have known a well-bred Jersey bull calf eligible to registry to go for $10 because the owner did not want it and was willing to take that sum rather than keep or kill it.

The matter of breed is one worthy of much careful thought. What breed to select depends somewhat upon what disposal is to be made of the milk and also upon the personal preference of the individual. If the milk is to be sent to a condensary, I would

Only 10¢

"Modern Silage Methods"

1913 copyrighted edition just off the press. Send for this 264-page book of profit-producing information—the most complete work on this subject published. Tells facts you ought to know about silos and silage—used and endorsed by many agricultural colleges—over 45 illustrations—indexed—a wealth of useful information for the practical farmer. Chapters on—"How to Build Silos"—"How to Make Silage"—"How to Feed Silage"—"Silage System and Soil Fertility"—"Silage Crops in Semi-Arid Regions"—All about Summer Silos, use of Silage in Beef Production and many other points. Ninth edition now ready. Send for your copy before too late. Inclose 10c in coin or stamps and mention this paper.

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Bird and Rain Proof Ventilator

Gives fresh air circulation and keeps out sleet, snow and rain. Birds can't nest in it. Keeps your stock healthy and brings you bigger stock profits. A real necessity for every barn, whether old or new. Improves appearance 100 per cent.

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Queen Cupola

Is a Real Cupola

Made of galvanized steel. Looks better and costs less than wooden cupola. No painting or repairs. Lasts a lifetime. Boy can install it. Gold leaf vane with each cupola.

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Write for free catalog. Also full particulars and complete price list.

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Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

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The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

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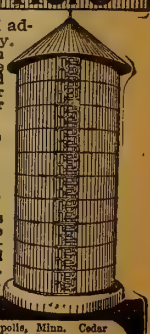
Send us your name and address at once for your copy.

Learn about the silo door you can open and close with one arm. Most convenient and safest. Lets you keep silo door closed airtight protecting your silage all year around.



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Your choice of two famous makes. Hinge door has safe ladder—all steel door frame—strong anchor base—Billet steel hoops—dozens of big features. Catalog tells all. Write today.

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General Offices, Lincoln, Neb.
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BOWSHER SWEEP MILLS

Different from all others. 4 or 2 horses. **Grind Corn with shucks** *and all small grains.* (Also make 10 sizes of belt mills)

FREE—Booklet on **"Feeds and Manures"**

E.N.P. Bowsher Co., South Bend, Ind.

have no hesitation in recommending the Holsteins, as they give a large volume of milk, although not ordinarily testing very high. For the retailer there is no doubt that the richness of the milk plays an important part in holding his trade, and the straight Holstein fluid cannot always be relied upon to show the amount of cream on the tops of the bottles that customers demand. A mixed herd may be made to pay admirably by careful selection and testing, but there is not the satisfaction in it. For the production of butter fat, or where cream is to be sold, there is no question of the supremacy of the Jersey or the Guernsey, the two acknowledged breeds which are so nearly related that there is really little difference between them. Repeated tests have given the Jersey the lead as an economical producer of rich milk, and the man who decides upon this as the breed to go into the dairy business with will make no mistake, if that is what he wants.

For the beginner I think it is well to keep the best cows already in the farm herd. Breed these to a pure-bred sire, selecting the kind decided upon. It will not pay to change, but continue from year to year the same line of breeding. As the heifers grow up breed these in the same way, keeping always in mind the productive advancement of the herd. The Babcock tester is an absolute necessity, and at the very beginning all cows of the herd should be tested. This, combined with weighing the milk from time to time, will give a good idea of each cow's value. Still better is the plan of weighing the milk separately every time and testing it once a month. In this way a complete record is secured and each animal's performance is known at the end of the year. The ribbon cows are thus detected and the best producers determined. I would keep no cow that does not show better than a 4 per cent test in a butter or cream dairy.

A good sire should be retained in the herd as long as possible, and none but a pure bred should be used. Frequent changes are not to be recommended. Worst of all is the practice of using a Jersey one year, a Holstein the next, with a Short-horn or Red Poll the third. One should not try his hand at improving his herd by cross breeding. Violent crosses are never advisable. There are enough good animals to be had in any breed and nothing will be gained by mixing them. One may think that by securing a Jersey-Short-horn cross or a Jersey-Holstein that the result be a larger yield of rich milk, but this is rarely true. The best plan is to select a breed and then stick to it. Give it the best possible attention at all times. Weed out the inferior animals as soon as they exist. Care for and feed the other intelligently, and there is not one of the dairy breeds but that will make money for their owner. I am quite sure that no one will make a successful dairy herd out of any but a pronounced, acknowledged dairy breed. To be successful one must give strict attention to all the details connected with the business. The two greatest essentials are good stock to work with and feeding the right kind of a ration.

Subscriber.

RAISING CALVES WITHOUT MILK.

To the Editor of The Homestead:

To raise calves without milk and get good growth and proper development is by no means an easy thing to do. A few farmers have raised good calves in this way, but they are exceptions, and are the kind who pay close attention to their animals, giving them the best of care, and keeping them in the best of health. Many others who have tried the experiment have failed, either losing their calves or badly stunting them.

Calves should by all means have whole milk for the first two weeks of their lives in order to get their digestive and assimilative organs to working properly, and to furnish them with bodily vigor which will help tide them over the weeks when they are not getting their natural sustenance. The best dairymen allow the calves to nurse their mothers for a day or two after birth, and then feed them warm, fresh milk, which after two weeks is gradually diminishing in amount, and skim milk or water is substituted, a little at a time.

The most common mistake in feeding calves, particularly where they are given other feeds than milk, is overfeeding them the first two or three months and thus getting their digestions disturbed and their bodily vigor reduced. Overfeeding produces indigestion and a general weakening of the system even where it does not cause diseases of a serious nature. Experienced feeders would advise no one to try to raise calves without at least a little milk in connection with the other feeds during the first six weeks or two months; even two quarts a day of skim milk will have a very beneficial effect. A little milk mixed with flaxseed gruel will produce a very fair growth and development if good judgment is used in feeding.

To make this gruel, add ten quarts of water, to one of flaxseed, let soak for several hours, and then boil for one hour, or until the flaxseed has been transformed into a jelly. It is best to use flaxseed from which the oil has not been removed. Enough of this gruel may be prepared at one time to last for several days, if conditions are such that it does not sour or spoil. It should always be heated to bloodheat before being added to the milk and fed. Experienced farmers never feed this gruel before the calves are two or three weeks old, and then but a little at at time until they become accustomed to it. At first a quart of the gruel three times a day, mixed with a little milk is a good ration. As the calf becomes accustomed to this, diminish the quantity of milk, and increase the amount of gruel until, two or three quarts may be fed three times a day, if the calves are always hungry and show no harmful effects. Until they are over three months old, more than three quarts of this mixture is apt to prove injurious.

In connection with this feed, a grain ration and a little bright clover or

This Man Knows Cream Separators

Farmer Onswon's Advice to Farmers

Look at this BEATRICE. I paid $75 for it instead of the $100 to $110 usually asked for less capacity. It's the only A No. 1 separator on the market which has these two most important virtues:

Highest quality and fair price.

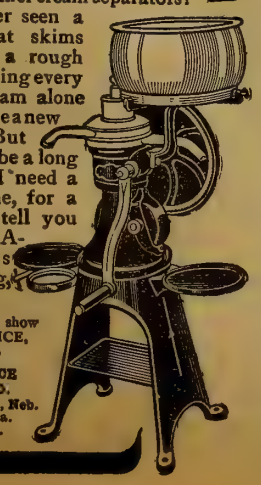
1,000 lbs., $75. They have smaller machines for less money.

Twice a day I spend *less than 2 minutes* to make this

BEATRICE Cream Separator

scrupulously clean and sanitary. The patented device does the trick. How's that compared with the time it takes to clean some other cream separators?

I have never seen a machine that skims closer. At a rough guess my saving every year on cream alone would buy me a new machine. But it's going to be a long time before I need a new machine, for a glance will tell you that the BEATRICE is built for long, long wear.



Let your dealer show you a BEATRICE, or write direct to

THE BEATRICE CREAMERY CO.
Chicago, Lincoln, Neb.
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DE LAVAL CREAM SEPARATORS

No Excuse for any Cow Owner Being Without One

There is no reason why any cow owner who sells cream or makes butter should be without a cream separator and there is no excuse why he should not have the best separator.

Any creameryman or experienced dairyman will tell you that a good cream separator will give you a great deal more and a great deal better butter than you can make with any gravity setting system, and equally, of course, more and better cream, if you are selling cream.

The DE LAVAL is acknowledged by creamerymen and the best posted dairymen the world over to be the **"World's Standard"** and the one and only separator that always accomplishes the best results possible and always gives satisfaction.

You cannot make the excuse that you can't afford to buy a De Laval, because it will not only save its cost over any gravity setting in six months and any other separator in a year but is sold either for cash or on such liberal terms that it will actually pay for itself.

A little investigation will prove to you that the truth of the matter is that you really can't afford to make cream or butter **without** the use of a DE LAVAL cream separator.

The nearest De Laval local agent will be glad to demonstrate this to your own satisfaction, or you may write to us direct.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

Use it 10 Weeks FREE

NO MONEY DOWN

KING Sanitary Cream Separator

$24.95

Four Sizes Capacity Up To 800 lbs. per Hour

Send No Money

Choose Your Own Terms

We don't ask you to send a penny, make any deposit or obligate yourself in any way. Simply try a King Sanitary Separator in your own home or dairy for **Ten Weeks Free,** just as if you owned it, test it with warm or cold milk, and if it doesn't separate all the cream right down to the very last drop in finer condition and do it easier than any other separator on the market, bar none, then return it, **at our expense,** the trial costs you nothing.

Cleanest, Simplest, Most Efficient, Absolutely Sanitary

The KING skims warm or cold milk more thoroughly and easier than any separator made, **regardless of price.** Positively never defeated in a skimming contest. Strong, durable, runs very freely; has all latest improvements including our improved separable disc bowl. Simplest machine to clean, all parts readily accessible. No nooks or corners to gather or hold dirt. After ten weeks **Free Trial,** if you decide to keep it, you can choose your own terms to pay.

The **KING SANITARY SEPARATOR** in all sizes cost you only one-half as much as agent's machines. Buying direct from our factory saves you all the expense of the agents, salesmen, stores, wagons, etc. To prove our claims, we make the **most liberal offer ever heard of.**

Life Long Guarantee Should any part of the King Separator prove defective in material or workmanship during the entire life of the machine, we'll replace it with a new and perfect part absolutely free of all cost to you and prepay all express charges.

Our million-dollar-factory stands back of every KING Separator.

This is your opportunity to save money. It is to your advantage to read our descriptive catalog immediately. **Send for Free Catalog at Once.**

King Separator Works 280 RANO ST. BUFFALO, N. Y.

The "STAY THERE" Aluminum Ear Markers

are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address

WILCOX & HARVEY MFG. CO.,
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ENGRAVING Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY
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WANTED: A MAN OR WOMAN all or spare time to secure information for us. Work at home or travel. Experience not necessary. Nothing to sell. GOOD PAY. Send stamp for particulars. Address M. S. I. A., 552 L Bldg., Indianapolis, Indiana.

mixed hay should always be fed. If this is not done the calf's digestive apparatus is very liable to be deranged. The grain ration may consist of a number of ground feeds, which later should be changed to whole grain. Some good combinations are ground oats, and bran; corn meal, ground oats and bran; oats or barley and corn chop. A mixture of twenty pounds of meal, twenty pounds of oil meal or bran, ten pounds of blood meal and five pounds of bone meal makes a very good standard ration for calves from three weeks to three months old. It has been found that where a great deal of the grain ration is left where the calves can have easy access to it at all times they do not thrive as well, as they do when but a little is fed several times a day, and none is left to become sour or dirty in the box.

Calves have been found to do well when alfalfa tea was gradually substituted for the milk, after the calves were several weeks old. In this case, however, the calves started to eat grain very early and apparently liked it. A little oil meal was added to each grain ration, when it was not fed in the milk. The ground feed should not be fed as a slop, but dry, and it should never be fed before giving the calf a drink because such a procedure is almost sure to cause bloat, due to the fact that when grain in the calf's stomach becomes wet it has a tendency to swell up. Feeding the grain, after the liquid part of the ration will lessen the danger of overeating, and consequent indigestion.

Handled in this way, if the calves are not allowed to get run down and out of condition the first few weeks, very fair success can be attained in growing them for dairy purposes. But, of course, they cannot be grown or fitted for veal or meat purposes with this feed. The main point in growing calves in this way is to keep a careful watch on the animals to see that they are healthy, and always give a little milk to the weak, puny individuals who show any tendency to scour.

It should be remembered that we can never duplicate nature, and the further we get from nature's methods, the less are our chances for success. Milk is the ideal food which nature intended for calves, and wherever possible it should continue to be the major part of their standard ration, either as whole or skim milk.

J. H. Murphy.

BEST METHOD OF PASTEURIZATION.

Milk can be pasteurized most efficiently in the bottles in which it is received. To do this a small tin pail with a perforated false bottom, such as shown in the illustration, can be used. If a special pail is not at hand, the same results can be secured by using an ordinary tin pail with an inverted pie tin placed in the bottom of same. This false bottom is

placed in the pail so as to permit circulation of water and prevent bumping of the bottles. An accurate thermometer should be placed in the water or in one of the bottles. Set the bottles of milk in the pail and fill with water nearly level with the milk in the bottles. Place the pail with the milk bottles on the stove and heat until the thermometer indicates a temperature of from 150 to 160 degrees F. The pail and bottles should then be removed from the stove and allowed to stand twenty-five minutes in the hot water. Now remove the cover and place the pail under a cold water faucet, allowing the water to run slowly into the pail. Continue until all the hot water has been replaced with the cold water and the temperature of the milk has been reduced to about that of the water. This is the cheapest and most efficient way of cooling and will also prevent breaking of bottles. The milk can then be conveyed to the refrigerator and placed on ice until required for use.—[Nebraska Bulletin.

SELECTING THE BULL CALF.

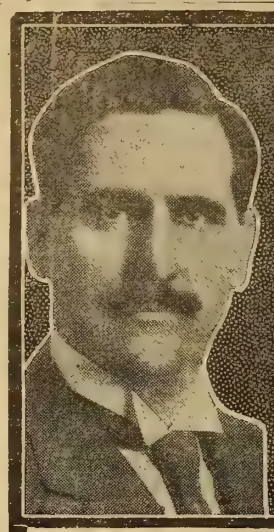
To the Editor of The Homestead:

I want first, at least two generations, four are better, of strong, vigorous ancestors backing the calf to be raised. If the calf to be raised is to be used to promote the best interests of dairying, its ancestry must have, in addition to size and vigor, a dairy performance that will warrant the trouble and expense of raising this calf properly, as its future usefulness depends largely on the manner in which the calf is cared for.

At birth the calf should be of medium size, vigorous, active and free from deformities, full, good-sized eyes, with clean-cut features, broad between the eyes, dished out in face below the eyes, broad muzzle, open nostrils, with eight well-developed milk teeth are good points. Rather straight and broad back, with well-sprung ribs, and well proportioned body with plenty of capacity are wanted.

Measurement through body, just back of front legs, should be good, as this is where the heart and lungs are located. They must have plenty of room to do their work if the calf is to prove a vigorous and prepotent animal; which, if he is not, he is a failure. I should like the calf to be a fair representative of his breed as to coloring and markings.

I will give some of my reasons for wanting certain points. Brightness, vigor and activity are the prime requisites for prepotency. Large,



90 Days Trial FREE!

The latest, greatest and absolutely the most wonderful product of my great factories — the superb 1913 Galloway Sanitary Separator — shipped right to your farm for 3 full months' trial — FREE!

I'm not even going to try to tell you about this separator—I can't find words to do it. Three years ago I called my factory superintendents, my inventors and my mechanical experts all together. I told them it was time for somebody to make a separator that would simply sweep the field on account of its overwhelming superiority over anything of the kind on the market, and that I intended to be that man. I said: "Now, boys, you've worked for Bill Galloway long enough to know that he won't take anybody's dust. You can have all the time and money you want for your experiments, but I expect you to make good."

Last August they told me my separator was ready. I took it out to my farm and tested it every way I knew how. I'll tell you, there isn't a single machine on the market that would stand up for one day under the tests to which I put this new Galloway Sanitary for week after week. I was so amazed, so thunderstruck by the results that I simply could not believe the evidence of my own eyes. I made up my mind right then that I would give every one of my farmer friends a chance to find out the truth about this separator the same way I did — by an actual three months' test right on their own farms, absolutely at my risk and expense!

I Challenge Every Manufacturer in the World to Meet Me on This Offer

I challenge any manufacturer or any dealer in the world to put a machine in your hands, regardless of price, for a fair test right alongside of the Galloway Sanitary. I'll even tell you how to make one test that no other manufacturer in the world has ever even dared to mention! **Take a batch of milk and skim half in the new Galloway Sanitary and half in any other machine on the market today. Then take the skim-milk from the Galloway and run it through the other machine and run the skim-milk from the other machine through the Galloway—AND WATCH THE CREAM SPOUTS!** You see the point—I don't need to explain—I'm just telling you one way to get the proof yourself.

And that's all I ask. I want you to see for yourself how the wonderful new Galloway Sanitary puts every other machine on the market just 20 years behind the times. I want you compare its simplicity, the amazing ease of operation, the handiness and the score of exclusive features of this wonder-working separator. See for yourself how the wildest claims of other manufacturers are fulfilled a hundred-fold in the machine Galloway sends you.

I'll Save You $25 to $50, Besides!

I'll tell you, frankly, this wonderful machine is my particular pet and pride, and I'm going to give you an extra big slice of the Galloway melon in its honor. I'll make you a price on this scientific marvel so low that no other separator in the country will even have a chance with you after you get my prices and terms. I'll guarantee—yes, guarantee—to save you $25 to $50 on the first cost alone, besides giving you a machine that's fully 20 years ahead of anything on the market today. Of course, this is an amazing offer — but it's my way of doing business. That's why 125,000 farmers, from one end of the country to the other, say

"The Only Way Is The Galloway"

Remember, this separator is made right in my own factory—every single piece—by the best and most experienced separator experts in the world and on the latest and most improved automatic and high-priced machines. I ship you this separator direct from my own factory. You don't pay a cent to any middleman or salesman. You buy at the actual factory cost with only one very small factory profit added. I take all the risk. I'll ship you a Galloway Sanitary, any size you may select, direct to your farm. Use it 30, 60 or 90 days. Then decide. If you can't honestly say that it's a better separator than you ever dreamed of owning, just ship it right back to me. I'll even pay all transportation charges, both ways, *so that you won't be out a single cent.*

Gear Driven Throughout

Gears running in a BATH OF OIL. The easiest running and most durable separator in the world.

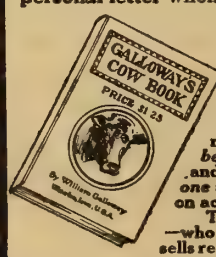
3 Months' Trial, Right On Your Own Farm, *FREE!*

$5,000 Challenge—$25,000 Guarantee!

You couldn't take any risk when you do business with me **even if you wanted to.** Every statement, every promise and every claim that I make **is backed by $5,000 in cold, hard cash.** Every customer is protected by a $25 000 guarantee of **ABSOLUTE SATISFACTION—and your word is always good with me.** You alone are the judge of the machine.

Get My Special 1913 Offer Sure

Here's the biggest and most startling proposition that I have ever been able to make. I have a proposition to offer you such as you nor anyone else ever heard of or even dreamed of before. **I'll tell you how you may get your Galloway Sanitary Separator or a Galloway Engine or Spreader either partly or entirely free.** I won't ask you to do any work or any canvassing, either. It's just a fair, square, co-operative proposition — that's all. I'll tell you all about it **in a personal letter** when you write me. WRITE TO ME NOW—TODAY.



COW BOOK FREE!

I want to send you a copy of my new Cow Book *absolutely free. There is positively nothing else like it in print.* It is the most complete and up-to-date manual of dairying for the farmer *that has ever been published.* All of the real, money-making facts—all of the *latest* methods and discoveries of the greatest dairy authorities of the world are condensed in this *one valuable volume.* There are no fancy theories—every single word is based on actual, practical experience. Everything is fully told in plain, clear English. There isn't a cow owner in the country—I don't care how successful he is—who can't *make more money* by following out the pointers in this book. It sells regularly for $1.25, *but I'll send it to you free and postpaid if you write me at once.* Besides, I will send you my handsome new Separator Catalog, just off the press, and full explanation of my 90-day Free Trial Offer and my 1913 Proposition. Now, don't wait a minute. *Don't let anything stop you.* Just get a pen or pencil and send me the coupon or a postal or letter for these free books and my offers NOW!

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☐ Make a cross here in this square and I will also send you my big 144-Page Merchandise Catalog giving 1,000 or more bargains on furniture, rugs, carpets, buggies, harness, machinery—everything for home and farm.

HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B. Young, Prop. Buffalo Center, Ia.

Russell's Holsteins

Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

T. H. RUSSELL, • Geneva, Ohio

40 BULLS 40

PURE-BRED registered Holstein bull calves, from 1 to 12 months old. An extra choice lot, most of them sired by our great herd bulls, and many of them out of high record cows. Our prices are bed-rock. We are short of room and must sell at least 20 of them in the near future. Send for price list.

WOODLAWN FARM CO., STERLING, ILL.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

W. C. KENYON, - Elgin, Illinois

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented. Bulls and heifer calves. Herd tuberculin tested

Geo. Burmeister, Prop., Waukesha, Wis.

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GUERNSEY

Most Economical
Producer of Highest
Natural Colored Dairy
Products
Get them. Write

The American Guernsey Cattle Club,
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INGLESIDE GUERNSEYS

MAY King and Glenwood families, 38 advanced register cows. All mature cows in the A. R. Largest herd of registered Guernseys in Illinois. Bull calves and a few heifers for sale. Send for catalog. T. W. BROPHY, Proprietor, 81 E. Madison Street, Chicago, Illinois.

CLOSING-OUT SALE Tuesday, March 11, 37 Guernseys, 6 registered bulls, 15 horses, 12 Short-horns, 26 spring colts. Sale to commence at 12 o'clock. L. C. Gourley, Villisca, Iowa.

JERSEY CATTLE.

Butter Profits

You ought to get more butter profits. Jersey Cattle mean more butter profits, because they yield more butter fat at less net cost of keep than any other breed.

THE JERSEY

excels in beauty of dairy type. She is a persistent milker. Jerseys are easily acclimated. They live long and keep healthy. They mean *steady* butter profits. Write now for Jersey facts. Free for the asking.

AMERICAN JERSEY CATTLE CLUB
324 W. 23d St., New York

WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Producing Jersey Cows

I HAVE for sale cows and heifers of the most popular producing strains, and at quite reasonable prices. Would also spare a few choice young bulls. 2 mature Shropshire rams, a number of ram lambs at farmer's prices. Geo. S. Redhead, Des Moines, Ia

Register of Merit JERSEYS

J. Q. Emery & Son, Edgerton, Wis.

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ORWIG & BAIR

Crocker Building, Des Moines, Iowa

WE now offer 30 head of registered females and 8 May Rose bulls, 5 of them ready for service.
WILCOX & STUBBS CO., Des Moines, Ia.

eyes, clean-cut features and good space between the ribs denote good nerve force, which every good dairy cow must have. Broad muzzle and open nostrils denote good lung power and appetite. The eight milk teeth are the ones on the front of the lower jaw, and, when well developed, denote vitality.

Four fair-sized, well-placed rudimentary teats ahead of the scrotum is considered a good dairy indication. The skin should be soft, mellow and oily with yellow color; the inside of the ear also, should be oily with rich yellow; this denotes quality in butter fat. Subscriber.

FLOOR FOR COW STABLE.

To the Editor of The Homestead:

In a recent issue of your paper I saw the request for something better than cement for floors for dairy and horse barns. After forty years' experience with all kinds of floors and bedding for stock we have fallen back to the earth floor. For best results we use a tough clay floor, well packed or beaten down with a maul or pestle and sloped back to the manure gutter for cows and to rear wall for horses. Our cows and all cattle like sawdust best for bedding. We learned this by having a saw mill near the barn and the dust was piled in a large heap nearby. Our cows would go to it and lie down and neighbor's cows would come for a mile to enjoy the dust pile. It can be put in the stalls from one to six inches deep, the deeper the better. In cleaning the stalls daily only a small amount of dust is removed at a time. If the dust goes with the manure to the field it will make clay land loose and pliable, but is inclined to sour it; however, it will produce the same results as chip dirt or leaves. The application of lime in some form will sweeten the land and should be used occasionally at any rate. Wheat straw is scarce and too valuable here in eastern Tennessee for bedding. Dry saw dust absorbs the liquid and will keep the floor dry.

Tennessee. H. L. Reynolds.

Among the curiosities of litigation may be cited the following case. On the boundary line of two farms in an Austrian village there grew a large gooseberry bush, from which the two farmers for years gathered the product. "What grows on my side is mine and you may have the rest," was the agreement. Some time ago the neighbors had a misunderstanding, and this came to a climax when the gooseberries became ripe. A lawsuit followed, and appeals were made to higher judicial bodies. The final decision was lately recorded in the Austrian courts. Each party is to have the right to pick the berries which grow on his side of the line, just as it was originally, but neither may destroy the bush. The costs are charged half to each litigant. Each farmer had to pay 225 krone. The yearly yield of the bush is worth about one-half krone, and the judge told the fighting farmers: "With good luck, it will take you only 800 years to make the bush pay. Take good care of it."

Although the register of production for Brown Swiss cattle has been established but a year, more than 100 cows and heifers of the breed are now being tested to determine their butter fat producing capabilities. The reports from these herds indicate that high averages will be made. The first twenty-one cows to be tested produced on the average 11,550.5 pounds of milk and 448.30 pounds of butter fat or 523 pounds of butter, and the average of the thirty-two cows and heifers of all ages was 10,860.7 pounds of milk and 429 pounds of butter fat.

How a small one-teacher school in the country may have all the conveniences popularly supposed to be the exclusive privilege of the city is demonstrated in the model rural school at Kirksville, Mo., according to H. W. Foght, specialist in rural education for the United States Bureau of Education. Indoor toilets and shower baths, drinking fountains, and a modern heating plant, are shown to be possible in the country school, however remote from the city. Furthermore, the cost is said to be within the means of a comparatively small community.

Big Ben

Big Ben—Two Good Alarms in One

Take your choice in Big Ben. He rings either way you wish — five straight minutes or every other half minute for all of ten minutes unless you switch him off. He's two alarms in one.

If you're a light sleeper, turn on the half minute taps before you go to bed. If you sleep heavily, set the five minute call. You can slumber then without the get-up worry on your mind.

When morning comes, and it's announced by Big Ben's jolly bell, you can't help getting up at once, for Big Ben never fails to get you wide awake.

Big Ben is really three good clocks in one, two excellent alarms and a fine time-keeper to keep in any room and tell time all day by.

If you have got to get up bright and early, if you have to get your help in the field on time, ask for Big Ben at your jeweler's and try him for a week. You'll never want to be without him afterwards.

Big Ben stands seven inches tall. He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves. He rings five minutes steadily or ten intermittently. If he is oiled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is $2.50 anywhere in the States, $3 anywhere in Canada. If you can't find him at your jeweler's, a money order mailed to *Westclox, La Salle, Illinois*, will send him anywhere you say express prepaid.

Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 600 Popular Bldg, Des Moines, Ia.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

Pure-bred Registered

HOLSTEIN CATTLE

With the right kind of cows you can make dairying pay well.

In Michigan there is a herd of 90 Holsteins in which official testing is constantly practiced in order to maintain a yield of 600 pounds of butter fat per year for every aged cow in the herd.

Every breed has its great cows but in no other breed is the proportion of large-yield cows so great as among Holsteins.

Send for Free, Illustrated, Descriptive Booklets.

HOLSTEIN-FRIESIAN ASS'N., F. L. Houghton, Sec'y. Box 113, Brattleboro, Vt.

Holstein Cows and Heifers at Bargain Prices

ON account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a car load. All tuberculin tested and bred to registered bulls. Also few registered bulls ready for service. ROCK BROOK FARM, STA. B, OMAHA, NEB

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

MATING BARRED ROCKS.

An inquirer who is a reader of this paper of Phillips, Wisconsin, writes:

Could you give us a description of a good Barred Rock hen? About their legs—should they be yellow? Do their beaks run darker than the males? We have one pullet that is beautiful; fresh, bright plumage, yellow legs and beak, while "feminine" is written all over her.

It is one thing to recognize a good Barred Rock, and wholly another affair to mate them so as to produce standard birds. Twenty-five years ago I knew all there was to learn and began to mate up pens of different breeds. Today, I know only a very small part of one-half of the business of mating Barred Rocks for good results.

The production of Barred Rocks is divided into two distinct parts, which is called a double mating. One pen to produce standard colored pullets, the other to produce standard colored cockerels. A poultry man who was somewhat of a dreamer, scoffed at the idea of a double mating of fowls. "The quail and prairie chickens do not use a double mating system and they breed true to color."

All wild birds do breed true to color, that is a fact, but God made the birds and man was instrumental in producing Barred Rocks, so, of course, there is more or less of mess made of it. This breed was produced from several other breeds, and so, of course, they will degenerate and run back, ativism it is called. In Barred Rock matings the cockerels invariably run lighter than the pullets, yet the standard requires uniformity of color in the sexes.

The cause of this was discovered by W. J. Spillman, of the department of agriculture. The male of this breed transmits barring to both male and female of his descendants, while the female transmits barring to her male descendants only. This peculiarity naturally causes the males to run lighter than the females.

To produce standard colored cockerels it is necessary to use a male of standard color and a female several shades darker. The barring of the female should be sharp and distinct. From long and careful study of this breed, I find that the pullets are prone to run too dark towards the head, while the cockerels invariably tend to a lighter color towards the head. To counteract this tendency, I always choose females that are very clearly and distinctly barred to the eyes, with no sign of smut, and the cockerels must show good neck and head barring and if a fault there must be, it must be in some other section. This fact is worthy of note.

To produce standard colored pullets requires a male very light in color, so light in fact, that the novice would look at him with suspicion. His mate should be standard in color and very distinctly barred to the skin, as should all Barred Rocks for that matter.

The stock should be perfect in comb, possess a bright bay or red eye, bright yellow shanks in all pullet breeders and the cockerel bred males. The pullets should have that distinct "feminine" appearance and for best results at filling the egg basket should not be crowded above standard weight. Other things being equal, the females from a pullet mating are the better egg producers. They are bred that way and built that way. The females from a cockerel mating run so dark that some spots will be in evidence in beak and shank, if, however, care is used year after year, and the best marked females only used for the breeding pens, this objectional feature can be almost eliminated.

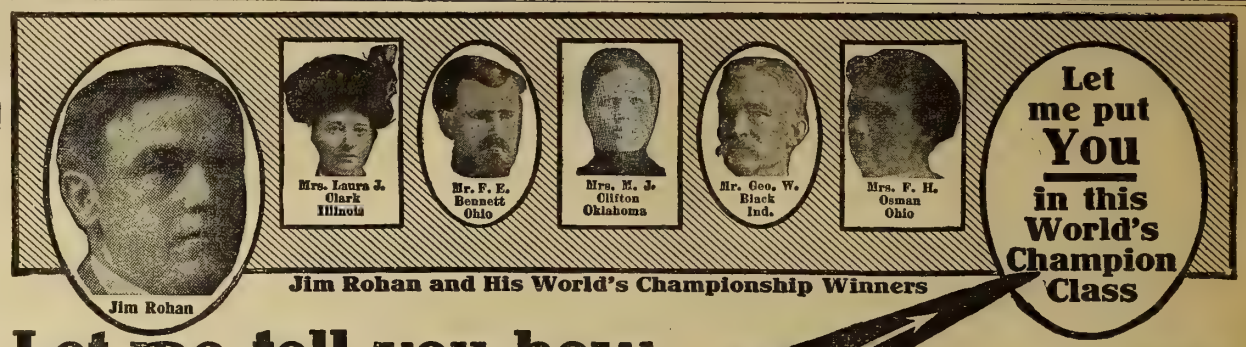
For a common farm flock, one mating is enough, and it depends on how you wish to dispose of them which is better. If one desires to raise cockerels to sell to head pure-bred flocks the cockerel mating is preferable. Less than 5 per cent of our customers ask for pullet mated birds. If you wish to raise wholly for your own use, with possibly a few surplus cockerels to sell on the market, the pullet mating would be better. They are rarely excelled as layers and I know of no prettier sight in the fowl kingdom than a flock of standard Barred Rock pullets that have just attained maturity.

MANAGEMENT OF LAYING DUCKS

To the Editor of The Homestead:

As a general rule, ducks lay their eggs from January to the last of June, missing but a few days during this period. They demand good care, however, at all times during the laying season if the maximum number of eggs are desired. Dry quarters are very essential for one thing. The duck quarters need never be an expensive building, but it must be kept perfectly dry inside at all times. The roof should be water tight and the floor must be such as will not become damp during wet weather. A plank floor raised several inches from the ground is always the most satisfactory. Keep several inches of straw or litter on the floor constantly, putting down a fresh supply at least twice a week. An abundance of bedding insures comfort for the ducks and it prevents broken eggs, as the birds drop their eggs on the floor. The duck house requires no furnishings in the way of perches or nest boxes.

The laying ducks require good feeding, but one must be careful not to overfeed. A fat duck is a poor layer, and a fat drake is unsafe as a breeder. Feed for eggs and not for fat. Three feeds a day of ground grains and cooked vegetables may safely be given until the arrival of grass and insects, when one feed a day will be sufficient. Until the arrival of grass



Jim Rohan and His World's Championship Winners

Let me tell you how these champions hatched 140 Chicks From 140 Eggs

I Want Your Photo Here

Here's plain common sense: You want an incubator that will **hatch every fertile egg.** And you want a Brooder that will **raise every chick,** if such machines are built. You are going to buy the incubator that you believe is **better than all others.** That is plain good judgment. Good incubators cost so little and last so long that you can't afford not to get the best!

Now here's **my** proposition: I want to give you **facts** and **proof!** I don't want to take up your time here with **empty arguments.** You haven't time now for dilly-dallying. The time is now here when you must **get busy** with your **hatching.** You want an **early** hatch. You can't afford to lose time **experimenting.**

Follow the lead of Uncle Sam. **The U.S. Government is among my 201,840 customers!** Surely the machine good enough for Uncle Sam is good enough to make money for **you!** I want to send you the **proof** that my **Belle City** Incubator is the **best.** I want to give you the **proof** that it **has produced a chick for every egg**—not luck shots, but **time after time!** I want to **prove** to you that all of these World's Championship winners and **thousands of others** are getting **100 per cent hatches** with the **Belle City** Incubator.

I want to send you the most remarkable **incubator and brooder news ever published.** I want to send you all the facts about my six-time World's Champion Belle City Incubator. I want to show **you** how to get into the World's Champion Hatching Class. I want to tell you how to make the **most profit** out of poultry **right from the start** and at the **least possible cost.** Let me tell you how my

This is the Tycos Cup won by my **Belle City** Incubator in the World's Championship Contest for best hatches, beating incubators costing 2 to 5 times more.

You can get record hatches too—just as easily as these World's Champions. I will show you how.

I want to tell you how I give you **1, 2 or 3 months test** right in your own home, and my liberal, **personal 10-year guarantee** and **money-back offer.** Won't you write me now? Just mail me a postal and I'll send all this information and more, absolutely free.

World's Champion Belle City Incubator

is made—how they are different from all others, how I have embodied in them everything worth having **in** and **on** an incubator—the features that have made the Belle City the **6-time World's Championship Winner!**

My **140**-Egg World's Championship Belle City Incubator has Oakes double disc self-regulator, correct hot water heating system, copper tank and boiler, safety lamp, double walls and double door, with dead air space all over, with roomy nursery and strong egg tray. Of course, the thermometer is right; I use the "Tycos." I also supply egg-tester, Edw. Miller sun hinge burner, funnel, everything you need including **valuable instruction book** on operation, hatching and care of chicks.

And I want to tell you all about my famous **140**-Chick Belle City brooder—the only double walled, hot water, top heat brooder made, **guaranteed** to raise largest percentage of chicks every time—a fitting companion to my **World's Championship** Belle City Incubator.

My Price Sensation

You may wonder at the remarkably **low price** at which I sell my machines **direct** from **factory.** I want to tell you how I send them all **freight prepaid** east of the Rockies and freight allowed that far on shipments beyond.

Just Drop Me a Postal—Now!

I will send you by **return mail** the **proof** that my **World's Champion Belle City** is the Incubator that will pay you the **handsomest** returns!

If you're in a hurry—if you don't want to wait for all this proof, you can order direct from this advertisement. I tell you how my machines are made, and give you my **money-back guarantee.** The editor of this paper, or any bank or express company will tell you your money is perfectly safe and I'll do just as I say I will. I ask you to send only **$7.55** for my **140-egg, 6-time** World's Champion Belle City Incubator—the best you can buy at **any** price, or **$4.85** for the **140-chick Belle City brooder.** You can order both together if you wish, and **save more money** at my unheard-of **low combination price**—send only **$11.50** when both are ordered together.

Don't turn this page without either writing to me or else tearing out this corner as a reminder. Whether you order or not you get all my valuable World's Championship hatching facts **absolutely free!** But be sure to **write me today.** Just say, "Send World's Championship Hatching Facts," or order **now** and save delay. I guarantee to ship machines same day your order is received. **Satisfaction guaranteed.** Address Jim Rohan, President,

Belle City Incubator Company, Box 52 Racine, Wis.

the layers may be given about all they will eat as long as an abundance of grit is supplied. Don't make the feed sloppy; just moist enough to cling together well. Some green food is necessary for ducks the year around and it should be provided at least once a day at this season. Give grit separate from the food, for when the two are mixed the fowls may be forced to eat more grit than they require. Drinking water should always be kept near the feed troughs.

Five ducks may safely be allowed to each drake. The first two dozen eggs are seldom fertile but afterwards the fertility runs higher than in hen eggs until June, when the eggs are no longer safe for incubation. It is best to keep the layers fastened in their quarters each morning until nine o'clock in order that the eggs may be deposited there, after which the fowls may be given their liberty for the remainder of the day. On cold mornings the eggs should be gathered as soon as laid, as chilled eggs will not hatch. If the eggs are not placed at once for hatching they should be carefully wrapped in paper and kept in a dry room having a temperature between 50 and 60 degrees. But the sooner the eggs are set after being laid the better they will hatch. They are not very reliable after they are a week old.

The breeding ducks should not be picked during the laying season if eggs are wanted, as the fowls cannot produce eggs and feathers at the same time. W. F. Purdue.

WHEN HENS STEAL THEIR NESTS.

To the Editor of The Homestead:

When a hen makes her own nest in the fields she usually chooses a hedge row, and it is curious that she generally prefers the side nearest the ditch, and not the middle of the hedge, as one might suppose. If the nest is undiscovered she will probably lay fifteen eggs before becoming broody, which means that she must be three weeks, or nearly so, in doing it. Yet the eggs all hatch out on the same day. If we set eggs varying from one day to three weeks old, there will be twenty-four hours difference in time of hatching the stale and the new laid. I think this is accounted for by the hen staying on the nest while she lays sufficiently long to slightly warm up the whole, and to give a revivifying influence to the germ. I have never tried warming eggs that I was keeping for setting, but it probably would enable them to be kept longer.

Hens will sometimes choose very curious places about a farmstead, and I once found one sitting on a boarded floor in a loft with two eggs under her and no nest at all. Left alone she hatched one chicken. It is also curious that when a hen steals her nest she never lays more eggs than she can cover before becoming broody—at least I have never known one to do so. It would seem that the accumulation of eggs in a nest, and the constant sight of them, brings on broodiness. It is a fact that hens go broody more quickly where eggs are collected badly, or when they are in breeding pens in the presence of a cock. On a poultry farm where we never dream of keeping a cock except in a breeding pen, we have plenty of opportunity for noticing this. Subscriber.

To Prevent White Diarrhoea.

Dear Sir:—I was losing my young chicks last year by the dozen, when I noticed Walker's Walko Remedy, recommended by a lady. I sent (M. O.) for two 50-cent packages to the Walker Remedy Co., U. 12, Lamoni, Iowa, and can say that it not only cured all the sick ones, but checked and stopped the disease, White Diarrhoea; and I had fine luck with my later hatchings—raised practically all of them.

Mrs. C. C. Jones, Blackwater, Mo—Adv.

NEWS OF THE SALE RING.

The Miller & Herr Duroc Sale.

Everybody was pleased with the fine offering, old and new breeders, and Miller & Herr were pleased with the large attendance and the prices their animals brought. Sows bred to Helen's Chief, their herd boar, were especially sought after. Col. C. C. Boyd, Centralia, Mo., topped the sale on No. 32, a grand individual by the great Fancy Col.; then, to add to that, she was bred to Helen's Chief for a March litter. Duroc men of the western shows should look out for her. Cols. Fred Reppert, Igleheart and Irwin done the selling in tip-top shape. Below is a list of buyers and prices:

1.	Wm. Staffer, Haskins, Ohio	$ 54
3.	Wm. Basse, Ada, Ohio	55
4.	L. H. Scott, Alexandria, Ohio	75
5.	Wayne Smiley, Woodburn, Ind	56
6.	Byron King, Perrysville, Ohio	35
8.	Wm. Staffer	56
9.	J. C. Ewing, Youngstown, Ohio	85
10.	G. O. Golen, Wooster, Ohio	30
11.	J. A. La Febor, Bryant, Ind	51
12.	E. C. Stemen & Son, Middle Point, Ohio	40
13.	F. J. Rupert, Spencerville, Ohio	131
14.	Dr. Buschamp, Lima, Ohio	50
15.	C. C. Ballon, Toledo, Ohio	53
16.	C. H. Hooley, Cable, Ohio	45
18.	Chas. Bryle, Gaston, Ind	49
19.	W. P. Penry, Radnor, Ohio	34
20.	J. A. La Fevor	45
21.	Wright & Meeks, Findley, Ohio	53
23.	E. S. Mayes, Jr., Springfield, Ky.	63
24.	J. O. Duncan, Lebanon, Ky	65
26.	Wm. Bosse, Ada, Ohio	62
28.	Wm. Bosse	62
30.	F. J. Rupert, Shelbyville, Ohio	169
31.	W. P. Penry	120
32.	Col. C. C. Boyd	195
34.	J. F. Borton, West Unity, Ohio	60
35.	C. A. Kisabeth, Fostoria, Ohio	62
36.	L. Schoonover, Ney, Ohio	50
37.	E. M. Marquette, Bluffton, Ohio	71
38.	Mahan Bros., Osborn, Ohio	65
39.	D. A. Ferguson, Love City, Ohio	52
40.	Walter Herrod, New Hampshire, Ohio	75
42.	H. E. Browning, Hersman, Ill.	57
43.	McKee Bros., Versailles, Ky	60
45.	C. J. Stuckey & Son, Mechanicsburg, Ohio	92
46.	Byron King, Perryville, Ohio	35
47.	Wm. Bosse	47
48.	W. E. Smiley	42
50.	C. F. Sprague, Lima, Ohio	46
51.	Wm. Hoewisher, Sidney, Ohio	41
52.	W. F. Stiner, Bluffton, Ohio	63
54.	L. E. Huffine, Van Wert, Ohio	45
55.	Wm. Howard	48
56.	Wm. Kalthoff, West Bremen, O.	49
57.	Smith & Rodgers, Springfield, O.	46
58.	Clarence Goller, Nye City, Ohio	42
59.	E. S. Monroe, Selina, Ohio	44
60.	L. H. Scott, Alexandria, Ohio	42
61.	W. E. Smiley	30
63.	E. S. Monroe	34
64.	J. E. Pierecon, Elida, Ohio	41
65.	Smith & Rodgers	43
67.	J. E. Ewing, Youngstown, Ohio	44
68.	Bob Ewing, New Hampshire, O.	36
69.	L. M. Barnes, New Hampshire, Ohio	26
72.	C. B. Ream, Lima, Ohio	81

The Sprague and Grant Duroc Sale.

Much credit is due Mr. Sprague and Dan Grant for the excellent offering they put up. They were a nice, even lot throughout. Sows bred to the noted boars, Cherry Col. and Jack's Friend, were in good demand. Some most excellent sows were also sold by these boars and good values were received for them. This sale sure indicates a most healthy condition of the Duroc business, as the offering were all sold on their merit and breeding and no high tops were reached. The sale made the highest average of the week of th Ohio sales. When Homestead readers need good Durocs they should look up the advertisement of Mr. Sprague elsewhere in this paper. Colonels Igleheart, Reppert and Irwin did the selling in a most satisfactory manner. Below is a list of buyers and prices:

1.	L. E. Kohli, New Paris, Ind	$156
2.	W. O. Vogt, Ada, Ohio	53
5.	Wm. Wilcoxson, Richmond, Ind.	53
7.	Perry M. Barker, Thorntown, Ind.	102
8.	J. W. Haas, Hume, Ohio	50
10.	Geo. E. Butler, Kenton, Ohio	133
11.	E. C. Stemen & Son, Middle Point, Ohio	90
12.	L. E. Kohli	165
13.	C. B. Ream, Lima, Ohio	85
15.	Thomas Bros., Vaughnsville, O.	58
16.	J. W. Haas	41
17.	Geo. W. Lones, Ada, Ohio	60
18.	Ira Jackson	76
20.	C. W. Clum & Son, Ada, Ohio	67
21.	Ira Jackson	76
22.	Miles Harkins, Pleasantville, Ia.	70
23.	Irwin Terwilliger, Wapaknetta, Ohio	79
24.	D. P. Diller	62
25.	J. O. Duncan, Lebanon, Ky	76
26.	W. P. Penry, Radnor, Ohio	71
27.	Stewart & Seiss, Tipton, Ind	86
28.	Geo. E. Brown, Logansport, Ind.	55
29.	Stewart & Seiss	109
30.	Amos Lugibill, Lima, Ohio	53
31.	M. D. Harvey, Lionsville, Ind.	57
32.	Terwilliger & Richie, Waponiette, Ohio	75
33.	Allen Baker, Sandusky, Ohio	52

Ironclad TRADE MARK
Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only $10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the greatest hatching contests ever held. In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid for only $10. Mrs. C. P. Merrick, Lockney, Texas hatched 148 chicks from 148 eggs in 1912 contest

140-EGG Ironclad Incubator
Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this adv.

GALVANIZED IRON
INSULATED BOARD
REDWOOD
ASBESTOS
6-Year Guarantee

Both for $10 Freight Paid East of Rockies

30 Days' Free Trial Money Back if not Satisfied.

140 Chick Brooder

IRONCLAD INCUBATOR CO., Box 59 Racine, Wisc.

THE X-RAY

Bigger Hatches With Only 1 Gal. Oil To Hatch—One Filling of Lamp!—

Get our new Free Book No. 41 on X-Ray Incubators and Brooders. Shipped direct from factory to you. No agents—no dealers. Guaranteed to please. Freight prepaid anywhere! The X-Ray is the one incubator today that's built on the right principle with the lamp underneath, in the center, and not on the side. This means perfect distribution of heat in the egg-chamber and no outside cold. We use a large oil tank holding four to eight quarts of oil—making only one filling of the lamp, but just four quarts are all that's needed for hatch. Old style machines have to be filled every day. The X-Ray saves both work and money! Heat is regulated by our patented automatic trip which cuts down flame at burner when egg chamber gets too hot—this is a big saving of oil. The ever successful

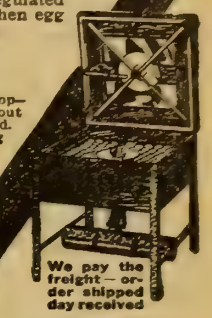
X-RAY INCUBATOR

has other exclusive and proven features that you will like. It opens from the top—has *two* double glass panels so you can see the thermometer at any time without letting in outside air on eggs. Ventilate or turn eggs by simply raising the lid. There are no sliding heavy drawers to break the eggs. X-Ray is heated to hatching temperature in just 15 minutes—others take 4 to 8 hours because of their *old style* principle. X-Ray is made of all genuine California redwood, covered completely with enameled steel, beautiful rosewood finish, legs galvanized, strongly braced. Every X-Ray incubator fully guaranteed. X-Ray results are the *biggest* results.

Write Today For Free Book No. 41

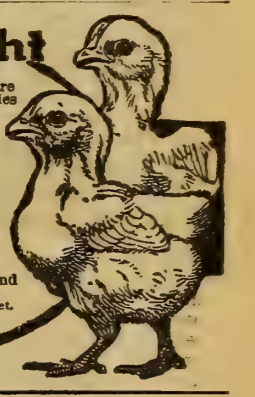
Learn *all* about X-Ray construction—why X-Ray is entirely different and wonderfully better than any other. Read why women and all mere beginners have such *big* success *every time with the X-Ray!* Write today—this is very important news—*worth money!*

X-RAY INCUBATOR COMPANY, Wayne, Neb.



We pay the freight—order shipped day received

Feed Growing Chicks Right



They must be furnished with the right kind of material if they are to make satisfactory growth of muscle, bone and feather. Profit lies in quick growth and early maturity. Rush those cockerels to marketable size and turn them into cash before prices fall. Get the pullets completely developed and ready to fill the nests with fall and winter eggs.

Pratts Baby Chick Food

contains just the necessary ingredients to give them during the first three weeks the best possible start, at a cost of 1c per chick. In boxes and bags, 25c, 50c, $1 up. After the third week mix

Pratts Poultry Regulator

in the ration to aid digestion and make the greatest gain for every pound of feed consumed. 25c, 50c, $1. 25-lb. Pail, $2.50.

"Your money back if it fails." Get Pratts Profit-sharing Booklet.

Our products are sold by dealers everywhere, or

PRATT FOOD COMPANY
Philadelphia Chicago

$10 Buys 165 Egg National Incubator And Brooder

ALSO 60 & 125 EGG

$9.00 Incubator & $4. Brooder for $10. FREIGHT PREPAID East of Rockies.

High, roomy nursery,	Strong, fireproof, metal case,
Automatic heat regulator,	Reliable non-breakable lamp,
Hot water heating system,	Cold-rolled copper water tank,
Double Glass Doors,	Has made many 100% hatches
Very sensitive thermometer,	
Wide dead air space.	
Spacious egg chamber,	

Brooder has safety lamp. Is roomy and easy to clean.

Order direct from this advertisement. We guarantee satisfaction or you get all your money back quick. Brand new Poultry Book free. Order Now.

165 Chick Brooder Alone $4.00

NATIONAL INCUBATOR COMPANY, 1343 19th St., Racine, Wis.

Freight Paid East of Rockies

125 Egg Incubator and Brooder Both For $10

Why pay more than our price? If ordered together we send both machines for only $10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay. (12)

WISCONSIN INCUBATOR CO., Box 119, Racine, Wis.

THIS PLANTER DOUBLES POTATO — PROFITS

DOES NOT INJURE SEED

Reduces planting costs to a minimum. The Eureka opens the furrow, drops seed accurately any distance or depth desired, puts on fertilizer if wanted, covers perfectly and marks next row. Always plants uniform depth. Three sizes, one or two rows.

Get a Eureka Mulcher and Seeder

Creates dust mulch, cultivates and weeds, sows and covers grass seed, alfalfa, oats, etc. Prompt shipment from branch house near you. Write for Free Catalog.

EUREKA MOWER CO.
Box 567, Utica, N. Y.

For Lame Horses

Remove-All positively cures Sprains, Ringbone, Curb, Shoe Boils, Capped Hocks, abnormal growths and lameness.

REMOV-ALL

Sold on money-back guarantee. Leaves horses sound and unscared. Lump Jaw is cured in less than three weeks with

Adams Rapid Lump-Jaw Cure

Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases.

H. C. ADAMS MFG. CO.
Dept. 14, Algona, Iowa

ALFALFA $9.75 Per bu.

Best Non-Irrigated Seed—99.6% Pure

95% Germination absolutely guaranteed. No seed better. We sell good seed for $8.00. Also have Turkestan alfalfa. Write now for free samples and save money. Our 76-page book sent Free, giving valuable information on growing alfalfa. Write today.

L. A. BERRY SEED CO., Box 403 CLARINDA, IOWA

Eggs From Full Blood Stock Eggs

26 White or Brown Leghorn Eggs	$1.50
13 Barred or White Plymouth Rock Eggs	1.00
13 Silver or White Wyandotte Eggs	1.00
13 White Orpington Eggs	1.50
13 Rhode Island Red Eggs	1.00
13 Black Minorca Eggs	1.50
10 White Pekin Duck Eggs	1.00
10 Indian Runner Duck Eggs	1.00

100 Leghorn Eggs, $8. 100 White Orpington, $12. Others $8 per 100. 50c extra for 2 sittings or less by Parcel Post, otherwise by Express. Book orders early; will send when wanted

Remit by Postal, or Express Order, on St. Louis.

W. F. CHAMBERLAIN, (*The Perfect Chick Feed Man*)
Dept. 17, KIRKWOOD, St. Louis County, Mo.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

F. K. REMEDY CO., 700 2d St. Arkansas City, Kan.

STOP THAT White Diarrhea

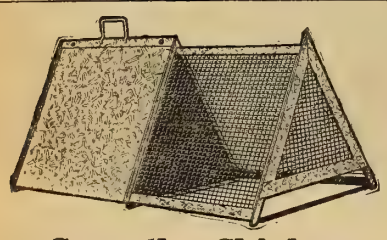
Don't wait a moment. Even one hour's time is valuable if you act quickly. Little chicks have **little vitality** and do not last long if seized by this disease. Be sure to have

Kellerstrass' Remedy

on hand so that you can **immediately** stop the trouble and **save your chicks.** If not sold by your dealer send direct to us for **25c, 50c, or $1.00 sizes.** Cholera, Roup and other diseases that kill can be prevented and **cured** by the "Kellerstrass Method of Treating Poultry Diseases."

FREE BOOK—telling all about the Kellerstrass Way, if you send your dealer's name.

ROYAL MANUFACTURING & IMPORTING CO.,
705 Royal Building, Kansas City, Mo.



Save the Chicks

Gem Chicken Coops protect from everything—rain, cold, damp, mice, vermin, etc. Made of one piece galvanized iron. Strong and safe. Metal or wood floor. Yard slips in coop at night. Eight feet floor space. Never needs painting. Instantly cleaned. Get full particulars and prices.

GEO. E. MAURER, Box I. H., Freeport, Ill.

More Chicks

Bigger, stronger and healthier, because hatched under right conditions. Send for catalog of the 1913 model automatic

QUEEN Incubator

28 Points of Superiority

Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.

P. M. WICKSTRUM, Incubator Man
Box 10 Lincoln, Neb.

15 Years on The Market

GERMOZONE

GEO. H. LEE'S Great Poultry Remedy

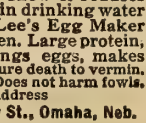
It tones the system, regulates the bowels, keeps chicks and fowls in fine condition. The best remedy for *Roup, Colds, Canker, Swelled Head, Cholera, Bowel Complaint, etc.* Actual figures show it reduces chick losses 90 per cent. Given in drinking water—no trouble. Price 50 cts. Lee's Egg Maker should be used by all poultrymen. Large protein, every ounce digestible. Brings eggs, makes chicks thrive. **Lee's Lice Killer** is sure death to vermin. Paint on roosts; it kills by fumes. Does not harm fowls. Lee's fine poultry books (3) free. Address

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

Neubert's 1913 BOOK FREE

SEND A POSTAL

Tells about the incubator it took 19 years to perfect. Shows why it beats others in 25 different ways. Tells facts you ought to know before you buy *any* incubator at *any* price *anywhere.* Read about the



TRIUMPH

Incubator leader of the year. Built for a lifetime service—big batches sure. Redwood case, Basswood inner walls, dead air space, asbestos lined. Double heating system, double regulating, perfect ventilation. Has greatest improvements ever made in incubator. Book proves it. Surprise on price saves you $5.00 or more. Write me a postal *now.* Get my book. Read the facts. Then decide. Address

R. F. Neubert, Box 787 Mankato, Minn.

Lice Proof Nests

Galvanized Steel

Keep your hens happy and laying by keeping them free from profit killing lice and mites with

KNUDSON Galvanized Steel Lice Proof Nests

These wonderful, sanitary, *patented* nests can't get out of order—last a life time and earn their cost many times over.

Regular price $3.90, set 6 nests—special introductory price $3.50; 3 sets (18 nests,) $10. Write for our *free* catalog, Gal. Steel Brood Coops, Runs, Chicken Feeders, etc. **KNUDSON MFG. CO., Box 483 St. Joseph, Mo.**

Latest Book "Profitable Poultry," 128 pages practical facts, 180 beautiful pictures. Latest improved methods to raise poultry. All about world's famous Runner Ducks, 52 other varieties pure-bred poultry. This Book, lowest prices, fowls, eggs, incubators, etc., only 5 cents **BERRY'S POULTRY FARM, Box 49 Clarinda, Iowa**

EGGS, 63c a dozen. You can get premium prices in any market if you'll read "Poultrology" and learn how Yesterlaid Egg Farms produce and market their eggs; 144 pages—70 pictures. Get one now. Edition limited. Yesterlaid Egg Farms, Dept. 45, Pacific, Mo

34.	Miller & Herr, Lima, Ohio	75
36.	J. W. Storm, Seville, Ohio	101
37.	Wright & Meeks, Findley, Ohio	51
38.	Ed F. Hulbert, Stonington, Ill.	76
39.	Ira Jackson	65
41.	C. W. Clum & Son	50
42.	R. W. Ingle, Piqua, Ohio	52
43.	Ed C. Michler, New Paris, Ind.	88
44.	Chas. Lyman, Maroa, Ill.	51
45.	H. W. Winebremer	77
46.	Joe Lepold	55
48.	C. E. Weaver	59
49.	Ira Jackson	76
50.	J. M. Kemper, Lima, Ohio	67
51.	Amos Lugibill	62
53.	Miller & Hess, Lima, Ohio	55
54.	John Keefe, Piper City, Ill.	100
5.	I. E. Stewart, Ada, Ohio	66
56.	F. J. Rupert, Spencerville, Ohio	121
57.	H. M. Wineremer	59
58.	Chas. Lyman	59
59.	Ira Jackson	107
60.	L. M. Barns, New Hampshire, O.	67

Fifty head averaged $75.

The McClarnon Poland Sale.

The sale of Poland China brood sows made by R. L. McClarnon at Braddyville, Iowa, on the evening of February 26th, was well attended again this year and he sold forty head at an average of $75.70, the top being No. 33, that went to Robert I. Young at $145. No high prices prevailed, but it was an unusually even sale from beginning to end. H. S. Duncan was the auctioneer. Below we list the entire offering:

1.	Geo. Griffin, Pleasanton, Ia.	$ 98.50
2.	G. W. Sefrit, Lucas, Iowa	102.00
3.	A. R. Sigler & Son, Pickrell, Neb.	102.50
4.	Weaver Bros., West Point, Ind.	117.50
5.	Andrew Anderson, Hastings, Iowa	106.00
6.	C. R. Miller, Atchison, Kan.	65.00
7.	W. A. Beesonell, Charles City, Iowa	62.50
8.	C. E. Brown, Murpheysburg, Tenn.	70.00
9.	Henry Doyle, Bloomingsburg, Ohio	72.50
10.	Geo. Griffin	67.00
11.	Gilbert Johnson, Osceola, Neb.	75.00
12.	G. W. Sefrit	78.00
13.	Earnest Beery, Shambaugh, Iowa	71.00
14.	Andrew Anderson	80.00
15.	Oscar Hensel, Edelstein, Ill.	90.00
16.	Howard Phelps, Carthage, Mo.	82.50
17.	John Kiely, Toledo, Iowa	100.00
18.	Geo. Griffith	75.00
20.	Earnest Beery	77.50
21.	J. A. Campbell, Stockton, Mo.	117.50
22.	N. L. Buffon, Red Oak, Iowa	46.00
23.	Andrew Anderson	66.00
24.	C. E. Beathard, Shelbyville, Mo.	61.00
25.	A. B. Duncan, Shannon City, Iowa	45.00
26.	J. A. Milne, Forbes, Mo.	54.00
27.	G. W. Sefrit	72.00
29.	S. Snell, Edina, Mo	65.00
30.	F. L. Fritz, Fontanelle, Iowa	60.00
31.	F. F. Brown, Shannon City, Iowa	57.00
32.	Geo. Bingham, Bradford, Kan.	70.00
33.	Robt. I. Young, St. Joe, Mo.	145.00
34.	Geo. Griffin	75.00
35.	Jas. McCune, Cummings, Ia.	57.00
35½.	N. A. Anderson, Burbank, S. D.	55.00
37.	A. B. Heckenlively, Cozad, Neb.	51.00
38.	A. B. Duncan	49.00
39.	Andrew Anderson	55.00
40.	W. B. Lockridge, Fayette, Mo.	55.00
42.	N. L. Buffon	51.00
41.	W. D. Carwin, Essex, Iowa	62.00
43.	G. W. Sefrit	72.50
44.	E. P. Byrne, Edina, Mo.	80.00
45.	N. A. Anderson	55.00

Duerr's Duroc Jersey Sale.

The sale of Duroc Jerseys that was held by A. J. Duerr, Milford, Neb., on January 28th, was well attended by breeders, but the cold, stormy day kept many of the local farmer buyers away. However, the forty head sold in short time and at fair prices. The offering really merited more money, but they made Mr. Duerr a profit at the price and they were certainly good bargains for the buyers. Colonels Page and Thompson did the selling and the ones that sold for $35 or more are listed:

H. H. Koenig, DeWitt, Neb.	$57.50
H. O. Harney, Aurora, Neb.	50.00
John Kahre, Dorchester, Neb.	37.00
Amos Eigsti, Milford, Neb.	52.00
George Davis & Son, Milford, Neb.	35.00
Hans H. Jessen, Dannebrog, Neb.	44.00
Chris Stahley, Milford, Neb.	50.00
R. D. Morrisy, Dorchester, Neb.	40.00
Ben Mooberry, Dorchester, Neb.	38.00
U. G. Nantkes, Bellwood, Neb.	39.00
Ben Mooberry	38.00
U. G. Nantkes	40.00
Wm. Severns, Tamora, Neb.	40.00
John Porterfield, Heartwell, Neb.	40.00
Geo. Davis & Son	44.00
Wm. Runty, Milford, Neb.	35.00
Ben Mooberry	36.00

POINTERS.

—Miss Edith Young, Huntertown, Ind., is offering Pekin ducks for sale in her advertisement found elsewhere in this department.

—Mrs. Anna N. Brodahl, Wahoo, Neb., has an advertisement elsewhere in this department of The Homestead offering Single Comb Rhode Island Red eggs for sale.

"My pens are now all mated ready for the egg trade," writes L. G. Johnson, Steamboat Rock, Iowa, in furnishing copy for his Single Comb Rhode Island Red advertisement that appears elsewhere in this department. "My birds have that fine shade of red so much sought for. They have been winning at every show where I have exhibited. I am in a position to give customers big value at prices within their means. I can fill orders for one sitting or in lots of 100 or more. My mating list will be sent to parties interested in purchasing, but not to those simply curious."

—Mrs. T. W. Glass, Sac City, Iowa, has White Wyandotte eggs for sale, prices on which are named in her advertisement elsewhere in this department.

—Rose Comb Rhode Island Red eggs by the hundred are priced in the advertisement of Emma Curts, Lawrence, Neb., that appears elsewhere in this department.

—Single Comb White Leghorn eggs are offered for sale in the advertisement of the Eggland Farm, Mt. Vernon, Iowa, appearing elsewhere in this department.

—Mrs. George W. Godlove, Riverside, Iowa, is offering Single Comb Rhode Island Red eggs for sale in her advertisement appearing elsewhere in this department.

—Elsewhere in this department of The Homestead will be found the advertisement of A. E. Goodman, Indianola, Ia., quoting prices on Single Comb White Orpington eggs.

—M. E. La Shome, Epworth, Iowa, is prepared to furnish readers of The Homestead with high-scoring Single Comb White Leghorn baby chicks. The advertisement appears elsewhere in this issue.

—Prices on Barred Plymouth Rock, Single Comb Rhode Island Red and Pekin duck eggs are stated in the advertisement of Mrs. C. A. Geisz, Carroll, Ill., that appears elsewhere in this department.

—Eggs from Barred Plymouth Rocks of the Thompson, Felch, Hawkins and Bradley strains, also blue ribbon winners in 1912, are advertised for sale by Mrs. Minnie Lenker, Wilton Junction, Iowa, in her advertisement appearing elsewhere in this issue.

—"Our Barred Plymouth Rocks," writes the Hawkeye Poultry Yards, Mt. Pleasant, Iowa, in furnishing copy for advertisement found elsewhere in this department, "are nice, large birds and well barred. We guarantee a good hatch; can only spare a few sittings."

—Norris & Norris, breeders of Single Comb Buff Leghorn chickens, Grinnell, Iowa, has an advertisement elsewhere in this department offering eggs for sale. They write: "We showed some birds of our own breeding at the Des Moines show, January, 1912, and took first and second on hen, fourth and fifth on pullet and second on young pen. We secured a ribbon on every bird we entered, and many of the birds are retained in our breeding pen this year. We will send mating list free on request."

—Ammy Bartow, Lynnville, Iowa, has an advertisement elsewhere in this department offering Barred Plymouth Rock eggs for sale. In furnishing copy she writes: "I have as fine a flock of breeders as there is in the state. Come and visit my yards and be convinced. My prices are low for the stock I handle. I have spared neither time nor money in building up my flock. Now is the time to take advantage of these prices. Eggs from my stock produced

Uncle Sam's Poultry Book

is the greatest chicken book printed. None other like it. Written by the government experts, and gives all the secrets of the business they have learned from years of experience. Tells all you want to know about the practical poultry business. It's only 20 cents, but worth $10.00 to anybody. By our plan you can get 50 cents back. Send today 2 dimes, or 10 2-cent stamps. Use this great book with the world-famed and unequaled hatcher, that never fails, the

SURE HATCH INCUBATOR

and you will have better luck with your chickens, raise more of your hatches, get more eggs and insure greater profits than by any other course you can pursue. The **Sure Hatch** is the best built machine on the market selling for a low price. It is the only machine made **exactly** after the style recommended in the government reports. It hatches chicks that live. **FULLY GUARANTEED FIVE YEARS.** Send for our big free catalog and put your chickens into market as soon as you can and get the big prices. You will be delighted with the Uncle Sam's Poultry Book and our plan of giving back more than you paid for it. Get our liberal proposition.

60 Days' Free Trial.

SURE HATCH INCUBATOR COMPANY,
BOX 16, FREMOMT, NEBRASKA.
FREIGHT PREPAID

WHY INCUBATOR CHICKS DIE.

THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The cause and tells of a cure. **Book Absolutely Free for the Names.**

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA.

ORPINGTON.

Fortmann's Single Comb White Orpingtons

ARE strictly high class and superior type that usually is not found in White Orpingtons. 10 grand matings for this season's egg trade. Now is the time to place your order for eggs. Address **Frank Fortmann, Box 23, Dyersville, Iowa.**

EGGS from prize-winning Buff Orpintons. Cookland Owen strains $1.50 per 15, Some good ckls. for sale at $1.50, $3.00 and $5.00 each. H. CAVELL, Haverhill, Iowa.

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

ORPINGTONS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK

EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address **W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.**

PROLIFIC WINTER LAYERS BUFF ORPINGTONS ONLY

IF you want the best buy of a specialist. I breed only Buff Orpingtons, and in late fall I make a careful selection of my early winter layers, excluding all others from my breeding pens. My birds have standard size, color and shape. Eggs, $1.50 per 15; $7.00 per 100. Dr. W. C. Cummings, Ryan, Iowa.

S. C. BUFF, BLACK AND WHITE ORPINGTON cockerels, hens and pullets. High quality, prize-winners, scored, unscored. Shipped on approval at reasonable prices. Eggs in season. E. B. Conable, Box C, Independence, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

FOR SALE—One pen C. W. Orpingtons, purchased of Kellerstrass; ekl. won 4th, Burlington show. 4 pullets, and all fine birds. Must move, reason for selling. Mrs. W. L. Morgan, 1803 Orchard St., Burlington, Ia.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 for 100; Utility flock $5 for 100 Book orders early. V. H. Conner, Shell Rock, Iowa

EGGS S.C. Buff Orpington, 4 club specials, 16 prizes Prices $5, $4, $3, $2, and utility pen at $1 Mating list ready. E. N. Silker, Epworth, Iowa

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15, $1.50; 30, $2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

S. C. W. Orpington Eggs $2 per 15, $4 per 45 or $7 per 100. Address M. D. Korns, Hartwick, Iowa.

EGGS from pure Cook strain Buff Orpingtons. Four yards, each headed by a blue ribbon winner. Write for mating list. Wm. Cook, Eddyville, Neb.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

CHOICE CRYSTAL WHITE ORP. ckls. and pullets for sale. Kellerstrass $30.00 egg mating strain. Special prices. J. H. Hartshorn, Traer, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Burdsley, Neola, Iowa.

50 S. C. Buff Orpington ckls. Fine, large birds of exhibition color and solid buff wings. $2 to $5 each. Address Dan McCarty, Winthrop, Iowa.

FARM range S. C. Buff Orp. eggs. Prize-winning stock; good type and color; are offering eggs at $1 per 15, $5 per 100. Glenn Heninger, Hedrick, Ia.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

S. C. W. ORPINGTON Cockerels, scoring from 90 to 92, $2.00 to $2.50. Pullets $1.00. Address W. I. PRICE, IRA, IOWA.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, high-scoring, 13, $2; 35, $4; 100, $10. Address R. M. HALL, Ellsworth, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Buff Orpingtons Yearlings, young stock and eggs for sale. Prices right. Glynn Poultry Yards, L. B. 69, Cascade, Iowa.

KELLERSTRASS WHITES—Eggs $1.50 per 15 or $8.00 per 100. S. C. Buffs $5.00 per 100. **ORPINGTON FARM, Big Rock, Illinois.**

PLYMOUTH ROCKS.

40 BIG-BONED BARRED ROCK

COCKERELS to close out at only $1.75 to $5.00 each.

I HAVE bred them for over 20 years and have won prizes at Odebolt, Denison and Schleswig. I offer these birds cheap to make room for my breeding pens. Send me any sum from $1.75 to $5.00 and I will select a bird that's worth far more. EGGS IN SEASON.

MRS. EVA GIRARD, - Schleswig, Iowa.

EGGS from PRIZE MATINGS

I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellenbarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address

HENRY LINKE, - Wayne, Nebraska.

1898--Buff Plymouth Rock--1913

EGGS from 3 prize-winning matings at $3.00 per 15, $5.00 per 30. Utility flock $1.00 per 13, $2.00 per 30, $3.00 per 50. Nothing in this flock scoring less than 90 points. Book your order early so you can get the eggs when you want them, as there is going to be a great rush this spring. Mating list free. Address M. E. KRAFT, Brooklyn, Iowa.

WHITE PLYMOUTH ROCK EGGS

PEN No. 1 is headed by a cockerel that took first at Grinnell. Pen No. 2 is headed by a cockerel sired by a cockerel that was GRAND CHAMPION at Detroit in 1912. These are mated to yearling hens weighing 10 lbs. each. For all orders booked before March 15th I will give 25 per cent discount. Eggs $2.00 per 15. Address Chas. L. Berry, Iowa City, Ia.

BARRED ROCK ECGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

Big Barred Rock Cockerels

200 GREAT large, nicely marked, heavy-boned, yellow-legged cockerels. Single birds $3 each. Three at $2.50 each. Five at $2 each. Weigh up to eight pounds each. Money back if not suited. Address Theo. Martin - - Bellevue Iowa.

BARRED ROCKS, BRONZE TURKEYS

A few good young toms at $5 each and 2 yearling toms, wt. 36 lbs. or better, $7 each. Eggs, Barred Rock, special matings, $2 per 15, 2 sittings $3.75, 3 sittings $5, farm range, 30, $1.50; 100, $4. Turkey eggs 30 cents each. M. V. LEEPER, Redfield, Iowa.

WHITE ROCK COCKERELS FOR SALE

SIRED by the grand champion at 1911 Des Moines show. $3.00 each or two for $5.00. Every bird guaranteed. Address Charles Guth, Berwick, Iowa.

IVORY WHITE ROCKS

S. C. Orpingtons. R. C. Leghorns, Wyandottes. Holland turkeys, Indian Runner ducks. Embden geese. Scored cockerels, pullets, hens for sale, $4.50 to $10. Eggs in season. $1 to $10 per 15. Address Ivory White Poultry Farm, Greene, Iowa.

B. P. ROCK COCKERELS

LARGE size and extra heavy bone with that deep blue barring, not brassy; sired by high-scoring ckls. weighing 10 to 12 lbs; from hens and pullets weighing 7¼ to 11 lbs. Price $2 to $5 each. Eggs, 15 $1.50; 30, $2.25. M. A. Easthouse, Hartley, O'Brien Co., Ia.

White Rock Cockerels

EXCLUSIVE. Strictly high-class, 125 from 6½ to 10 pounds. Prices for quick sale. $1, $1.50 and $2. Eggs in season. A. C. BINNIE, Alta, Iowa.

Exhibition Barred Rock Ckl.

From our 1st-prize pens. Pure Bradley very closely related to Chicago and New York winners Prices $2.00 to $10.00 each. Satisfaction guaranteed. Albert A. Foster, - - Russell, Iowa

WE HAVE a few choice White Plymouth Rock and Rose Comb Buff Leghorn cockerels for sale at $1.00 to $3.00 each. Five fine Rose Comb White Orpington females, $7.00. A few white guineas $1.50 each, $2.50 pair. Address Mrs. H. E. Clark & Sons, R. 3, Box 9, Estherville, Ia.

EGGS FROM QUALITY

BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $5 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Bachman, Blakesburg, Ia.

Bradley Barred Rocks and S. C. Reds

Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

EGGS—Barred P. Rocks, from 10-pound female, 12-pound males. State show first-prize winners. Free catalog showing real photos of prize winners. A. D. MURPHY & SON, ESSEX, IOWA.

WHITE P. ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

EGGS from large White Rocks at 5 cents per egg. Address Mrs. H. Wood, Moville, Ia.

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Mammoth Pekin ducks. Prices reasonable. Mrs. M. W. Coan, Little Cedar, Iowa.

GRAND BARRED ROCKS Cockerels. Large, vigorous birds, $2 each, three for $5. Eggs for hatching. J. C. Fisher, McConnell, Ill.

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

BUFF PLYMOUTH ROCKS

BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and state what you are interested in buying. Address J. O. KOERTH, - Ionia, Iowa

40 P. R. Rock and Golden Wyd. ckls. narrow barred and have quality. One million strawberry plants. Special prices to Homestead reader. J. L. Todd, R. 3, Des Moines, Ia.

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 60; $4.00, 100. Stock direct. Wm. Kerr, Box B. Winthrop, Iowa.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100, $6. Write for particulars. Grant Lynn, Spirit Lake, Ia.

Eggs—Barred Rocks Free catalog, magnificent birds, low prices. Hurry. HAZEL-DELL YARDS, - ESSEX, IOWA.

WHITE Rocks, 92 to 95¼; eggs $2.00 per 15, utility flock $1.00 per 15 or $5.00 per 100. Address MRS. JAS. PEDLEY, R. 3, Bri , Iowa.

BARRED Rock ckls.; am closing them out at once, cheap. Also one thoroughbred Holstein bull calf for sale; write at once. Chas. McCaskey, R. 2, Ogden, Ia.

Barred Rock Eggs Pen fine females headed by 91½ ckl. $2 for 15. Hawkeye Poultry Yards, Mt. Pleasant, Ia.

EGGS from H. S. Barred Rocks and S. C. R. I. Reds, $1.50 per 15, $3 per 50, $5 per 100. Also M. W. P. ducks $1.50 per 11. Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

PARTRIDGE ROCK COCKERELS Bred from $50 Noftzgen male, $5.00 each. Address C. W. McQuinston, Monmouth, Ill.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

B. P. R. eggs for hatching, from large well-barred birds. Good laying strain. 15 for $1.00, 45 for $2.25, 105 for $5.00. Mrs. J. H. Hellman, Holstein, Ia.

CKL. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

PURE-BRED Barred Plymouth Rock Eggs, $1.25 for 15, Write for larger amts. Large and well-marked birds in season. Wess Whetstine, Wellman, Ia.

B. P. R. eggs from large, fine, barred birds; good laying strain; ckls. scored 90-92½; wt. 10-12 lbs. 15, $1.50; 30, $2.25. G. J. Pfeil, R. 3, Central City, Iowa.

EGGS FOR HATCHING—B. P. Rocks, large boned, narrow barred, good laying strain. $1.00 for 15, $6.00 for 105. James H. Howarth, Moulton, Ia.

WHITE ROCK EGGS Send me your orders now for future or present shipment. Write B. W. Eckels, Nevada, Iowa.

White Plymouth Rock Eggs and ckls. for sale; good scored stock. Write for prices. Mrs. E. C. Turner, R. 1, Griswold, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

TURKEYS

M. B. Turkeys, Pekin Ducks

I HAVE about 7 M. B. turkey toms and a number of Pekin Ducks, all first-class stock, for sale. Address Mrs. G. M. Grinstead, Mitchellville, Iowa.

MISSOURI KING and Giant M. B. turkeys bred from prize stock, combine size and fancy markings. Also R. C. Brown Leghorn ckls. for sale at $1 each. Henry Schlatter & Sons, Lawler, Iowa.

MRS. J. E. BAXTER Walnut Grove, Minnesota, has Mammoth White Holland turkeys for sale. Toms $5.00, hens $3.00. Write your wants.

WHITE HOLLAND TURKEYS ELEPHANT strain. Both sexes. Prices right. Mrs. J. H. Hanlon, Lawler, Ia.

Order Now Eggs from 28-lb. M. B. T. hens; large Buff and White Orpington chickens. Address Steve Morlan, Plano, Iowa,

NARRAGANSETT TURKEY TOMS Weight 30 pounds, 8 mos. Foster's strain. Address MRS. R. B. HOWE, Tipton, Iowa.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. LONGWORTH'S, Polk, Iowa.

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 batch turkeys. Address E. Foster, Caldwell, Ohio.

W. H. TURKEYS. Hens $3, toms $5. S. C. B. Minorca hens and pullets. Ckls. not related. $1 each while they last. Mrs. H. A. Wohlsdorf, Lawler, Ia.

Mammoth Bronze Turkey Toms FOR SALE. Weight 25 pounds. Price $5.00. MRS. A. BOLSINGER, R. 3, Buffalo Center, Iowa.

FOR SALE M. B. turkeys—toms and pullets. Extra fine birds. Address PLAIN VIEW STOCK FARM, Colfax, Iowa.

M. B. TURKEY TOMS $5.00 each, pullets $2.50. Address MRS. A. KITSON, Audubon, Iowa.

W. H. TOMS $4.00 each, weight 22 and 23 lbs A few choice Pekin drakes $1.60 each. Address Mrs. H. A. Wohlsdorf, Lawler, Ia.

show winners in 1912 and I expect as good or better this year. Write for circulars."

—L. S. Fisher & Sons, Edgewood, Ia., have a few choice big-type Poland China gilts for sale. They are bred to F.'s Longfellow for March and April farrow and will be shipped on approval, express prepaid. The advertisement appears elsewhere in this issue.

—J. B. Heisel, Grinnell, Iowa, has a new advertisement in this issue for eggs from his fine flock of exclusive Rose Comb Rhode Island Reds. He has a number of prize winners heading these pens and you will receive your money's worth from him. Write him, mentioning The Homestead.

—Miss Jennie Rider, Farmington, Ia., has an advertisement in this department of The Homestead offering Indian Runner duck eggs for sale. She will guarantee them to be pure white in color. She reports that she had splendid luck in selling ducks and could have sold fifty more if she had had them.

—Grant Lynn, Spirit Lake, Ia., whose new advertisement appears elsewhere in this department, writes: "The eggs I am offering for sale are from nicely barred, large-boned Plymouth Rock stock of the Thompson Ringlet strain." For further information address Mr. Lynn, mentioning The Homestead.

—G. J. Pfeil, Central City, Iowa, a breeder of pure-bred Barred Plymouth Rocks for the past fifteen years, has an exceptionally fine lot this season, good layers and barred to the skin. The prices at which he will furnish cockerels and eggs will be found in his advertisement elsewhere in this issue.

—The Evergreen Poultry Yards, Waterloo, Iowa, write: "The Mottled Ancona cockerels we are offering for sale are extra choice birds and are from our heavy laying strain of large white eggs. They are closely related to our Chicago and Waterloo prize winners." See advertisement elsewhere in this department.

—Hal E. Rogers, Luverne, Iowa, in furnishing copy for his advertisement offering Rhode Island Red eggs for sale, found elsewhere in this department, writes: "At the head of pen No. 1 I have a fine cockerel from the Buschmann-Pierce Red Farms, mated with the best of my pullets, while at the head of pen No. 2 I have a large bird of my own raising."

—James H. Howorth, Moulton, Iowa, writes: "We have been breeding Barred Plymouth Rocks since 1880. Our flock is a fine one, of more than standard weight, with fine, narrow barring clear to the skin, and are good layers that will please anyone in practical utility. They are not only good lookers, but they pay in the egg basket." See advertisement elsewhere in this department.

—R. E. Colburn, Weyauwega, Wis., whose advertisement offering Single Comb Buff Leghorn eggs for sale appears elsewhere in this department, writes: "Our stock, scoring from 92 to 93¼, took first, second and third over all competition at the Waupaca County Fair. They are heavy layers of big, white eggs. Our May hatched pullets began laying in November and kept busy all winter."

—Mrs. Eva Girard, Schleswig, Ia., has forty big-boned Barred Plymouth Rock cockerels which she is closing out at low prices as per advertisement appearing elsewhere in this department. Mrs. Girard has bred Barred Plymouth Rocks for twenty years and has won prizes at Odebolt, Denison and Schleswig. Prices quoted on these cockerels she considers low in order to make room for her breeding pens. She will be able to furnish eggs in season.

—J. W. Robinson, Truro, Iowa, breeder of Single Comb White Leghorns, whose advertisement offering eggs for sale appears elsewhere in this department, writes: "My Leghorns have the run of the farm; they are healthy and are laying like slot machines. It is the quality of my birds and eggs that is high, not the price. If you want Leghorn eggs give me a trial order. I guarantee good, fertile eggs. Will be well packed and delivered to the express company in good shape. Write me your wants." When writing please mention The Homestead.

—F. Fortmann, Dyersville, Ia., whose advertisement offering Single Comb White Orpington eggs for sale appears elsewhere in this department, writes that he has a few good cockerels left; also that he has ten grand matings for the season's egg trade. Mr. Fortmann's winnings were first and special best-shaped cockerel at Aurora Fair and Poultry Show, and grand sweepstakes hen; also first on pen. At Epworth, Ia., he won first on cockerel, first on hen, first on pullet; also best pen and the handsome club ribbons of the American White Orpington Club and the beautiful club medal for best pen. At Dubuque he won first on display pen. All these winners are in his show matings. Mr. Fortmann wishes success to all his friends and customers.

—The advertisement of Ben Bradshaw, Truro, Iowa, offering Single Comb Buff Orpington eggs, appears elsewhere in this department. In furnishing copy Mr. Bradshaw writes: "My birds are farm raised and are free from disease. My Buffs are very even in color and are good egg machines. Pen No. 1 is headed by a ten-pound cockerel mated to twelve good hens and pullets; pen No. 2 is headed by a nine and one-half-pound cockerel that is a good one, mated to twelve hens and pullets that are good for the money that I ask for the eggs. My range flock is headed by cockerels running in weight from nine to ten pounds apiece. If you are looking for something good in the egg line I have them. Thanking all who got eggs and birds from me last season,

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS

EXCLUSIVELY

STOCK AND EGGS SHIPPED ON APPROVAL

Score Card by Shellabarger Accompanies Each Bird

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are at liberty to inquire of any bank or business firm in Iowa City. HENRY G. WALKER, IOWA CITY, IA.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address

H. E. HUSTON, - Iowa Falls, Iowa

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I. REDS

75 cents per 15 or $4 per 100. Pen No. 1 $2 per 15 or $10 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed. J. B. HEISEL, - Grinnell, Iowa.

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive circular. Address

P. H. THIEL, - Renwick, Iowa.

SINGLE COMB REDS

EGGS that will hatch, at right prices, from my prize-winning, skin deep Reds; the kind that pays; start today with this popular breed. Send for my free mating list. L. G. Johnson, Box H, Steamboat Rock, Ia.

Brilliant Red Strain

SINGLE Comb Reds. Strong, vigorous cockerels, purest blood. Trios and pens mated. Eggs $3 for 30. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

PRIZE-WINNING R. C. R. I. REDS Long, black, big bone, red eyes and low tail. Score 92½ to 95; won 15 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2.50 and $3 per 15. Circular free. Address C. B. Alverson, Moravia, Iowa.

MOUSER'S REDS (Both combs.) Cockerels, pullets, trios and pens for sale. Also Omaha King, first cock at Omaha. Address W. I. Mouser, R. 5, Red Oak, Iowa.

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15, $5 per 100. Write Mrs. W. L. Stoner, - Henry, Illinois.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. C. RHODE ISLAND REDS

Big-bone, vigorous cockerels at reduced prices. Baby chicks and eggs. F. N. Blake, Maquoketa, Iowa.

R. & S. C. R. I. RED EGGS for sale from 6 choice pens headed by show winners, When you buy here you get the best. Address O. A. Knerr, Beaver Crossing, Neb.

SCORED R. C. R. I. RED COCKERELS

$1.25 to $3.00 each. G. D. Owen, Pilot Mound, Ia.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address THE RED FARM, Luverne, Iowa.

Eggs--Rose Comb Rhode Island Red

$5.00 per 100. Address Emma Curts, Lawrence, Neb.

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R. 1, Box 3, Wahoo, Neb.

ROSE C. R. I. Red ckls. greatly reduced prices next 30 days; fine, large, pure-bred birds, scoring 91½ to 93¼; $1.50 to $5 each. Miss Maggie Henning, Ira, Ia.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address MRS. GEO. W. GODLOVE, Riverside, Ia.

SAND R. C. Rhode Island Reds. DeGraff and Tuttle strains. Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

FOR sale, R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls. $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. C. F. BATTELS, Indianola, Iowa.

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2 Walnut, Ia.

S. C. RHODE ISLAND REDS large size, red to the skin, a laying strain. Eggs $2.00 per 15. E. M. Thompson, Independence, Ia.

S. C. R. I. RED EGGS

for sale. Address Mrs. Sophia Rader, Laurel, Ia.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls. and pullets for sale. W. W. Vaughn, Marion, Iowa.

ANCONAS.

A Few Choice Mottled Ancona cockerels, large, cheap if taken at once. Evergreen Poultry Yards, R. 4, Waterloo, Ia.

WYANDOTTES.

A. L. Anderson

Breeder of high-class GOLDEN AND SILVER LACED WYANDOTTES, Indianola, Iowa. 20 miles south of Des Moines.

Faha's Silver Laced Wyandottes Grand type. Superb lacing. Trap-nested layers. 50 fine breeding pens at $10 per pen if taken soon. Write me your wants. Frank Faha, Jr., Box 620, Dyersville, Iowa.

50 Silver Wyandotte Ckls. Farm raised, from prize-winning stock Score cards by J. L. Todd. Circulars free. Prices reasonable. John A. Johnson, R. 2, Pilot Mound, Iowa

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15. $5.00 per 100. Mrs. W. F. Prather, Atlantic, Iowa.

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

Large Strain of Buff Wyandotte Cockerels

FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

SCALES' SNOW WHITE UTILITY White Wyandottes. Eggs for hatching, farm flock. $1 per 15; $6 per 100. Special pen, show birds, $2 per 15. N. W. Scales, Iowa City, Iowa.

PARTRIDGE WYANDOTTES Ckls. scored and unscored. Reduced prices to close out. Egg orders booked. Thos. L. Morian, Indianola, Ia.

EGGS from prize winning, good laying strain White Wyan., $1.00 per 15, $5.00 per 100. Address E. G. Pont, Atlantic, Iowa.

EGGS for hatching from White Feather Poultry Yards. High-scoring W. Wyan. W. H. turkeys. Book orders early. Mrs. C. F. McLochlin, Gray, Ia.

BUFF WYANDOTTE eggs for sale. Good stock and farm range. $1.50 per 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

Partridge Wyandottes. The beauty breed; eggs for hatching from prize-winning birds. Write for prices. H. Nobiling, Perry, Iowa.

PUREST and BEST White Wyandotte eggs, $1.25 per 15; nothing better at any price. Mrs. C. Lionberger, Humboldt, Neb.

White Wyandottes, well bred, good layers. Cockerels, pullets, hens for sale. Prices low for quality. E. G. Brockway, Indianola, Iowa.

Silver Laced Wyandotte cockerels for sale. Choice birds. Prices right. Glen and Mae McLaughlin, R. 5, Manning, Iowa.

BUFF WYANDOTTE COCKERELS Farmers' fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

Partridge Wyandotte ckls. and pullets from high-scoring birds at a low price. Eggs in season. Good Bros., Montezuma, Iowa.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia.

WYANDOTTES—Pure-bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Ilsley. Milo, Ia.

CHOICE WHITE WYANDOTTE COCKERELS, $1.25 to $1.50 to close. Large, vigorous, sure to please. E. S. DYAS, Bellevue, Iowa.

White Wyandotte Eggs $1.00 for 15, $4.00 for 100; from state show winners. Address ETHEL H. SHAW, R. 6, Newton, Iowa.

LANGSHANS.

BLACK LANGSHAN COCKERELS. 175 ckls., 50 hens and pullets. Won 72 ribbons at state poultry show and state fair. Score 90 to 96 points. Satisfaction guaranteed. Address R. G. McDuff, Monroe, Ia.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

B. Langshans, I. R. ducks. Eggs from high scoring pens $1 to $3 per 15. Circular of winnings. Bert A. Randell, Mt. Zion, Ia.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

BLACK LANGSHANS Large-boned cockerels $2.00 each. Three $5.00 Eggs in season. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

BLACK and W. Langshans, S. C. Buff Orpingtons, Light Brahams, R. C. R. I. Reds, choice stock prices right. Mrs. S. E. Newell, R. 6, Aububon, Ia.

Black Langshans Ckls. all sold. I am booking orders for eggs now. Birds scoring 90 to 95 points. CAP OAKS, Adair, Iowa.

GEESE.

TOULOUSE GEESE Toulouse Geese eggs from very large-framed birds, weight 20 lbs. and over, 6, $1.50; 13, $4. 2 extra ganders for sale $2.50. Frank A. Gould, Rockwell City, Ia.

The Homestead is a good paper in which to advertise."

—Geo. Gaul, Tipton, Iowa, advertises Single Comb White Leghorn eggs from a well-established strain and one fancy imported pen in his advertisement appearing elsewhere in this issue.

—Buff Orpington eggs from prize-winning stock and some good cockerels are offered for sale by H. Cavell, Haverhill, Iowa, in his advertisement appearing elsewhere in this department.

—Eggs from prize-winning White Wyandottes of a good laying strain are advertised for sale in the advertisement of E. G. Pont, Atlantic, Iowa, that appears elsewhere in this department.

—Toulouse geese eggs from large-framed birds are offered for sale by Frank A. Gould, Rockwell City, Iowa, in his advertisement appearing elsewhere in this department. Under the Buff Wyandotte head Mr. Gould is also offering eggs for sale from good stock having farm range.

—J. M. Reeder, Earlville, Iowa, breeder of Barred Plymouth Rocks, in furnishing copy for advertisement found elsewhere in this department, writes: "I have an extra choice lot of Barred Rock hens and pullets this year, mated with the best cockerels I ever owned. They are all good in color, shape and size. Kindly get your order booked a few days before you wish eggs shipped. In so doing you will get eggs when wanted."

—Mrs. E. C. Turner, Griswold, Iowa, in furnishing copy for her new advertisement appearing elsewhere in this department, writes: "Our White Plymouth Rocks are in good condition; if any difference, they are better than heretofore, not any brass in plumage, pure white, bay eyes, yellow legs and feet, score 92½ to 95½. They are of the Fishel strain and this year's flocks are headed with cockerels from one of Fishel's $25 pens."

—Mrs. James Pedley, Britt, Iowa, writes that her White Plymouth Rocks are in good condition, hens weighing up to eight pounds, cockerels up to ten pounds and score from 92 to 95¼. Some are very fine birds and a great many of them prize winners, she having won first and second wherever shown. Mrs. Pedley has raised White Plymouth Rocks exclusively for the past fifteen years. Her advertisement appears elsewhere in this department.

—L. C. Crum, Red Oak, Iowa, in furnishing copy for his advertisement offering Buff Plymouth Rock eggs for sale, found elsewhere in this department, writes: "I feel that I am offering the public that which I can justly be proud of. We have been breeding Buff Plymouth Rocks for three years and have taken great pains to make them good. We had them scored this year by A. L. Houston and received some very encouraging compliments from him."

—Ben Bradshaw, Truro, Iowa, writes: "My Single Comb Buff Orpingtons are farm raised and free from disease; they are very even in coloring and are good egg producers. My pen No. 1 is headed by a ten-pound cockerel, mated to twelve hens and pullets; pen No. 2 is headed by a nine and one-half-pound cockerel also mated to twelve hens and pullets. My range flock is headed by cockerels weighing nine to ten pounds." Read advertisement found elsewhere in this department.

—Eli F. Hersey, Parkersburg, Iowa, a life member of the American Poultry Association, is making a very moderate price on eggs by the sitting or by the hundred, in his advertisement that appears elsewhere in this department. The varieties from which he can supply his customers are Single Comb Brown Leghorns, Rose Comb Brown Leghorns, Single Comb Rhode Island Reds, Barred Plymouth Rocks and Pekin ducks. Winners at Chicago, New York, Kansas City, St. Paul and Iowa shows are in his yards. Catalog will be sent for the asking.

—William Kerr, Winthrop, Iowa, is a breeder of Thompson Ringlets, Bradley and Latham strains of Barred Plymouth Rocks; he has both pullet and cockerel mating pens this season containing high-scoring stock. His range flock consists of Thompson Ringlets headed by pure Thompson cockerels scoring 90 to 91, a number of the hens in this flock scoring 90. His stock is closely related to Chicago, Boston and New York prize winners. Anyone wanting Barred Plymouth Rock eggs should read the advertisement naming prices that appears elsewhere in this department.

—Mrs. John E. Griffith, Washington, Iowa, whose advertisement offering Dark Cornish eggs for sale, appears elsewhere in this department, writes: "I have had more demand for Dark Cornish fowls this season than I could supply. My flock was never in better condition to furnish eggs for hatching than this spring. I have new birds to head all my pens and I expect the best of results. Egg inquiries are coming in most every mail and I have booked a number of orders. The best of care is taken to prepare the eggs for shipment and sittings are sent in Erie shipping cases."

Geo. S. Phillips, Tecumseh, Neb., is offering just now eggs for hatching from his noted flock of Single Comb White Leghorns at the very low prices of $1.50 for fifteen or $5 per 100. When one takes into consideration that Mr. Phillips has been breeding choice Leghorns for twenty-four years and that his fowls have always made good, either in the breeding pen or in the shows, and that the stock from which these eggs are now for sale are of the very purest white and that they are large, well-balanced birds, it will then be apparent that he is indeed offering a lot of real bargains at the prices asked for these eggs. Order today if you want something choice and that is true to type and name. Mention this paper

—The advertisement of Mrs. S. J. Philson, Harlan, Iowa, offering Single Comb White Leghorn eggs for sale, appears elsewhere in this department.

LEGHORNS.

Rose Comb Brown Leghorns EXCLUSIVELY.

15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $5; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

THOROUGHBRED S. C. W. Leghorn cockerels for sale. They are raised from a choice flock of hens and $5 apiece cockerels. Will sell same at $1.25 each. Same quality, with frosted combs, 75cts. each. No discount for quantities and not less than 3 shipped. Power Creek Farm, Treynor, Iowa.

S. C. W. LEGHORNS

CHALK WHITE. Six blue ribbons Des Moines, 1912. Eggs $2 to $5 per 15. Utility $6 for 100. Address J. M. Williamson, R. 1, Des Moines, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address R. S. Ketcham, Box H, Boonville, Indiana.

S. C. W. LEGHORN eggs by the 100. It is not the price that is high but the quality. Write me your wants. J. W. Robinson, Route No. 1, Truro, Iowa

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 A. B. JORDAN, - Moravia, Iowa.

Must Sell My choice flock of S. C. W Leghorn hens and pullets. Young's strain. As I have to move March 1 will make special prices for quick sale. C. H. Drake, Lisbon. Iowa.

S. C. W. Leghorns; eggs from a strain with blood lines well established; $4.00 per 100, $1.00 per 15. Also fancy imported pen (Campbell strain of Canada) $2.50 per 15. Address Geo. Gaul, Tipton, Iowa.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

S.C. BUFF LEGHORNS Eggs from high-scoring, prize-winning stock $1.50 per 15. Ckls for sale, $5 each. R. E. Colburn. Weyauwega Wis

BABY CHICKS from fancy S. C. W. Leghorns, high-scoring, 10c each. Eggs $1.00 per sitting. M. E. La Shorne, Epworth, Iowa.

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 and $4.50 per 100. Eggland Farm, Mt. Vernon, Iowa.

S.C. BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S. C. W. LEGHORNS. Pure white, persistent layers. Eggs, $1.50 per 15; $5.00 per 100. Geo. S. Phillips, Tecumseh, Nebraska.

S. C. Brown Leghorn Eggs from scored farm range stock. 75 cents for 15, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. F. Bollman, Wall Lake, Ia.

ROSE and Single Comb White Leghorns and Black Langshan cockerels for sale. Single bird $1.25 or 6 for $6. Address Joseph Kappes, Jr., Ashton, Iowa.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100. From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

ROSE COMB Brown Leghorn cockerels and pullets for sale at $1 each or 6 for $5. Address T. E. Diehl, Berwick, Iowa.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

S. C. W. LEGHORN. Young's cockerels, 92¼ to 93¼ points. Hens and pullets, $1.00; eggs $5.00 per 100. Mrs. Wilson McIntyre, Red Oak, Iowa.

MINORCAS.

EGGS S. C. Black Minorca, blue ribbon, ideal laying strain, FERTILITY TESTED, setting of 15 eggs from three choice pens, $3, $2, $1 each. Mixed $1.50. Liberal discount for larger orders, C. G. DAKE, Epworth, Iowa.

BLACK MINORCAS Eggs in season, 15 for $2 30 for $3.50, 50 for $5.00 Address H. L. Simpson, R. R. 13, Epworth, Iowa

DOGS.

SCOTCH COLLIES

STRONG in the blood of Buckler, a grandson of the great Southport Student. Also Parbold Piccalo by Anfield Model. These great breeding dogs at the prices ordinarily asked for common stock. Address A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

SCOTCH COLLIE PUPPIES

HIGH-class puppies, the best blood in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. T. A. STEVENSON, SHANNON CITY, IOWA

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

Fox Terrier Puppies for Sale

Nicely marked and great ratters. Very best breeding. Address N. R. ROGERS, Pern, Nebraska.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thoman, West McHenry, Illinois.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

FOR SALE High grade Scotch Collie pups. Bargains if taken soon. Address, T. A. GOUGH, Bristow, Iowa.

BRAHMAS.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

DUCKS.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Maines. Send for circular of winnings. Mention Homestead. Address Henry Schehl & Sons, R. 2, Prophetstown, Ill.

Eggs from Mammoth White Pekin Ducks

HEADED by drakes scoring 97. 97¾. Won blue ribbon at Oswego, Kansas, poultry show, 1912. $2 for 13; $4 for 30; $6 for 50; $10 for 100. Address JOHN M. HALL, - Williams, Iowa.

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. F. P. HEALY, Bedford, Iowa.

Pekin Duck Eggs from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 13; pen 2, $1.50 per 13. Address EDW. MEYER, Dyersville, Iowa.

EGG ORDERS NOW BOOKED from our champion strain of Indian Runners that won all firsts at Chicago. A few choice drakes. F. L. Reinhard & Son, Ottumwa, Ia.

WE are offering 100 extra choice breeding trios o pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address Rahn & Son, Box 144, Clarinda, Iowa.

I. R. ducks, both fawn and white, and the English penciled. Special prices on eggs for Feb, and March orders. Nishna Collie Kennels, Oakland, Ia.

FOR SALE PEKIN DUCKS. Drakes $2, trio $5. MISS EDITH YOUNG, Huntertown, Ind.

INDIAN RUNNER DUCK Eggs, $1.60 per 13. Pure white eggs. Address Jennie Rider, R. No. 2, Farmington, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½. drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. MRS. C. A. ROBINSON, Griswold, Iowa

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia.

FOR SALE Pure-bred Indian Runner ducks and drakes, fawn and white. MRS. C. L THUIRER, Fostoria, Iowa.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 98¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

FINE THOROUGHBRED POULTRY

40 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 19th Annual Poultry Book. Address R. F. Neubert, Box 807, Mankato, Minn.

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LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box Freeport, Ill.

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

50 Best Paying Varieties Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at Low Prices. Send 4c. for my Book which gives reliable information worth many dollars to you W. A. WEBER, Box 910 Mankato, Minn.

KEEP YOUR CHICKENS HEALTHY

WITH GERMIKIL (the great roup and white diarrhoea remedy). CATALOGUE FREE. AYE BROS., Box 1, BLAIR, NEBRASKA

Rose Comb Rhode Island Red eggs from high-grade stock, $1.00 per setting of 15, pure faun and white Indian Runner duck eggs at $1.25 per setting of 11. Write for quantity prices. Mrs. R. P. Peterson, Ringsted, Ia.

EGGS FOR HATCHING

From 21 Leading Varieties of Chickens. AYE BROS., Box 1, Blair, Nebraska.

White Wyandotte and Buff Orpington Cockerels. I still have good flock of each variety left. 7 to 9 lbs. Big-boned birds. At $1.25 each. Address A. G. Dreher, Audubon, Ia.

S. S. HAMBURGS Cockerels and eggs for sale. Prices right. Address H. C. SCHRAGE, Bristow, Iowa

EGGS for hatching; S.S. Hamburgs, R. C. W. Orps., P. Wyandottes, Mottled Anconas Buff Leghorns, I. R. ducks. E. E. Calvert, Shellrock, Ia.

Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

Baby Chicks 4 varieties, all pure bred stock. Price 8c to 11c each. Catalog free. 20th Century Hatchery, Dept. A, Chatfield, Ohio.

FOR SALE Toulouse goose eggs at 20 cents each. Good marked birds. Address A. B. Summerville, Monroe, Iowa

Interstate Farmers' and Breeders' Association.

THE farmers of the region of which Sioux City, Iowa, is the center have in the Interstate Farmers' and Breeders' Association one of the live organizations of the whole corn belt. In the eleventh annual meeting of the association held in the parlors of the new Martin hotel at Sioux City on February 27th and 28th this year, the attendance was about double that of a year ago, and this in spite of the fact that the session was held during a hard time of the year for many farmers to get away. The entire list of officers who worked up the program and the entertainment are entitled to much credit for their efforts. A new feature of the meetings is the women's section which holds sessions at the same time as the men. The new officers for the coming year are: President, B. F. Stoddard, of Sloan; vice-president, E. M. Casady, of Whiting; secretary, Joe Morton, of Sioux City, and John Thompson, of Sioux City, treasurer. Directors elected were: H. M. Corwin, of Rock Valley; C. H. Babcock, of Moville; E. B. Carter, of Sergeant Bluff; W. S. A. Smith, of Sioux City; C. W. Maynard, of Elk Point, S. D.; W. B. Whiting, of Whiting, Iowa; W. H. Benn, of Sioux City; Frank Drulley, of Yankton, S. D., and Daniel Hartnett, of Hubbard, Neb. Friday evening the meetings were closed with a banquet in the hotel banquet room which was attended by 300 people including the members of the associatically no more tillable land remaining of Sioux City.

"The farm tenant system in the United States has been a greater menace to the country than war, famine and pestilence," said Prof. W. J. Kennedy in discussing that subject. It encourages soil robbing, prevents good schools, good rural churches, the building of good roads and interferes with good home life. The production of the farms in the United States is fast becoming lower than the demand of the country's population and since there is practical no more tillable land remaining that is not already being farmed, this demand must be met not by farming more acres, but making each acre produce more. The tenant farmer cannot work as efficiently under the present system as he could under other conditions, because of the prevalence of the short-lease system. He loses 25 to 50 per cent of his efficiency because he lacks comfortable homes, has not sufficient live stock nor proper farm machinery, he cannot have the proper buildings, not one tenant farm in five is properly fenced and the tenant is not able to command sufficient credit or bank capital. The result is that instead of farming the land he mines the soil. Instead of continuing under the present short-time leases of a year or so, the long-term leases that prevail in England and Scotland were recommended as means of improvement. The following suggestions of methods to improve were given: First, long leases with renewal options, mentioning prominently the ten, fifteen and seventeen-year contracts of Great Britain; second, cash rentals as a means of taking farmers away from the grain farming idea; third, better equipment in buildings and fences; fourth, credit system enabling renters to borrow at as low rates of interest as owners; fifth, government aid similar to that of Ireland and Denmark, enabling farmers to buy land on long-term contracts at low rates of interest.

Fall wheat as a principal crop is fast attaining prominence in the region from which members of this association come. It has been successfully raised by Bert Stoddard, of Sloan, who in a paper "Why and How to Grow Winter Wheat" related his experiences with the crop as grown on a large scale. His principal reason why winter wheat should be grown was the profit to be obtained. Crops in Woodbury county have made from fifteen to forty bushels per acre and the returns from marketing have shown it to be profitable. There is more profit in this crop than other small grain crops sown in the rotation commonly followed; it aids more than these other crops in ridding the land of foul weeds, as it starts early, choking the weeds down and its early maturing and early harvest time gives a chance to plow the land early in the summer when the weeds are most easily killed. Mr. Stoddard told of a field badly infested with milkweeds that was cleared by the tillage necessary for this crop. It is far ahead of spring wheat as a crop in this section and has winter-killed but once in Mr. Stoddard's ten years of ex-

Shallow Men Believe in Luck—Deep Men Believe in Cause and Effect

THE CAUSE—

The Spalding Deep Tilling Machine is built especially for deep and thorough tilling of the soil. It is guaranteed to do the work exactly as represented in our catalog.

We told the editor of The Iowa Homestead that we wanted to advertise the Spalding Deep Tilling Machine to his readers and asked him how we could get the readers to take the most interest in the machine. "Why, that's easy," he said, "tell them what they want to know. Tell them what the Deep Tiller is doing for other farmers right here in the territory this paper covers. Show them what the machine has accomplished in the way of increased yields of such crops as our readers grow. If you can show them results worth while, they will sit right down and write to you."

Very well—we will do that. We print here extracts from a number of letters from farmers in this territory who have been using the Spalding Machine, tilling their soil 12 to 16 inches and harvesting the result of their labor in the shape of increased crops and enhanced land values. *What the Deep Tiller has done for these and others it will do for you.*

Tell us which crops you raise and what kind of soil you have and we will give you helpful information from our *Experience File,* including letters from farmers with conditions practically identical with yours.

THE EFFECT—

Martin City, Mo., Jan. 18, 1913.
I have plowed 150 acres in the Little Blue bottoms in Jackson county, Missouri, since the beginning of corn husking and I am plowing 14 to 18 inches deep and turning stalks under so completely and well that you would hardly know that it is a cornfield. In fact, this plow is doing the swellest job of plowing that I have ever seen. I bought a farm in this Little Blue bottoms, consisting of 283 acres, 200 acres of which was as level as a floor,and 100 acres of this farm is shown on the U. S. Survey map as being Wabash clay—(in plain words, the stickiest gumbo ever).This 100 acres had never been plowed since Columbus discovered America and was entirely covered with swamp willows.(I mean covered to.) I took this Spalding Machine and $5,000 worth of the biggest mules I could buy, put 5 head on this plow at a tim e,working 5-hour shifts, put them into this 100 acres and the work this plow did was a wonder to know and see. It put this wilderness into a seed bed, the best you ever saw. I planted this in corn and husked from 80 to 90 bushels per acre and am now finishing plowing this field for the second time. I have completely reclaimed this land and it is worth to cultivate $200 per acre any place in the U. S., and I feel that no other plow could do this work and I know that I am $10,000 better off for having known of this machine and having bought it. I consider this machine the most wonderful and valuable piece of farm machinery in existence and its invention will do more for future farming than all the agricultural colleges in the United States. I am now figuring on buying a tract of 680 acres of ground that can be made to raise large crops with this plow applied, which otherwise will remain wild blue stem for reason of expense of putting into condition.
J. H. Wallace.

Elsie, Neb., March 20, 1912.
Expect to keep my two Spaldings at work continually this spring and to be able to report later the exact results. My experience, so far as it has gone, has been very encouraging. Their work speaks for itself. Whenever deep plowing is needed, they solve the problem with a minimum of power needed, and no other machine that I have seen will mix in the same way the soil from top to bottom of furrow. A most important point in many soils.
Robt. Taylor.

Alliance, Neb., Nov. 16, 1912.
In answer to your letter in regard to the Deep Tiller as to the effect it had on my crop, would say that the corn made 60 bushels per acre, while that raised on the mould-board plowing made about 20. That on the deep tilled land would have yielded 75 bushels if it had not been so thick on the ground. There was very near double the stand that should have been. I don't consider that this last summer was as good a time to show the merits of the plow, as if it had been a dry season; we had double the rain we needed to make a crop.
We have done some fall plowing where we plowed with it last spring and it pulls considerably lighter than the first plowing did. I consider it the most profitable machine I have and would not take $500 if I could not get another one.
Yours truly,
(Signed) J. P. Barger,

Fulton, Mo., Nov. 30, 1912.
Until last spring I had never seen real plowing. One end of the field was so hard and stony that no mould-board plow could be held in the ground. The Spalding Machine cut its way through everything and left the surface in beautiful condition. It was so well pulverized that it was in much better condition undisced than was the shallow plowed portion after double discing. It was easy to pick out the deep tilled corn from a distance by the vigorous growth.
C. J. Smith, Mgr. Mo. State Hospital Farm.

Highmore, S. D., March 29, 1912.
I used the one they had at the Experiment Station here on two or three acres of my farm last year. I had corn on that land this year, and winter wheat was sown in the corn. I observed last fall that the winter wheat on the deep tilled land showed at least 50% better crop than the more shallow tilled land.
H. H. Stoner, Supt. Farmers' Institutes.

Fort Atkinson, Wis., Oct. 28, 1912.
I have your letter of the 16th inst., relative to my experience with one of your machines,which has been in use on my farm for nearly two years.
I can say frankly that the plowing it does is the only plowing that suited me in full. The way "it goes to the bottom of things," the results shown in the growing crops for two seasons (one of drought and the other of abundant moisture), convinced me that I have found another farm that the machine has disclosed to me.
My idea that one thorough breaking up of the soil twelve inches deep is enough for at least a term of years. Both logic and experience justify the use of this splendid tool.
W. D. Hoard.

Montevideo, Minn., May 25, 1912.
I have this day had a plowing demonstration on my farm with your Spalding Deep Tilling Machine on a piece of ground that I stalled with three other plows, even the late patterns of the ———which would not scour. We plowed it 13 to 14 inces deep,and it put the ground into garden condition, covering all cornstalks and stubs. I think as a plow it is the greatest machine I ever saw and will be anxious to see the results of a crop.
Paul J. Falkenhagen, Prop.,
Crystal Springs Dairy.

Brunswick, Neb., January 10, 1913.
My experience with the plow was very satisfactory. I had more than doubled my corn yield this year by tilling the soil 12 to 15 inches deep. I plowed 40 acres with the machine and the balance I farmed the old way, listed it in. The listed corn cultivated four times and harrowed once, made about 15 bushels of corn per acre. Where I used the tilling machine it made about 40 bushels. It was awful dry this season, the average corn was about 20 bushels to the acre.
E. G. Bauman.

Clarinda, Iowa, Jan. 20, 1913.
Replying to yours of January 2d in regard to the results of the use of the Spalding Deep Tilling Machine, will say that the field in which we used this machine was freer from weeds, worked easier and the soil was in a better physical condition than fields plowed in the ordinary way.
Marco B. Walker.

Plover, Wis., July 30, 1912.
We tried the Spalding Deep Tilling Machine on some marsh land and found the results to be much better than anything we could do with any other plow.
The ground contained many grubs and heavy grasses, but these did not prove to be obstacles to the plow.
Purviance & Robinson.

R. D. No. 2, Curtiss, Wis.,Nov. 5,1912.
I have received the plow. I like it fine. It works just the way I wanted it to. And now I am breaking sod 14 inches deep—goes right along with four small horses.
J. M. Johnson.

Lawson, Mo., Nov. 8, 1912.
Gentlemen:—
I recommend the Spalding Deep Tilling Machine to my neighbors and farmer friends. I bought your machine late in April. I plowed about ten acres on an average of 12 inches deep, contrary to advice of several friends and relatives. I had two good corn raisers on adjoining fields, one in the north and one in the east, across the fence, on practically the same land for production. One of these neighbors listed his corn, the other broke his ground as deep as he could plow with an ordinary walking plow.
We had a very dry season all through. Now for results.
My corn never seemed to want for moisture at any time and when the other fields were suffering for rain my corn had rich, dark color and was not affected by drouth. The stalk is larger, the ears are larger, better filled and superior in every respect.
I call it a success and have asked several that looked the field over; they all agree with me that my corn is the best they have seen in the neighborhood.
Respectfully,
(Signed) Clem L. Smith.

Thomas, Ill., Dec. 16, 1912.
My corn was one-third better when I used the Spalding Deep Tilling Machine.
Thos. A. Drayton.

Monmouth, Ill., Oct. 29, 1912.
The deep tilling caused a gain of 17 bushels per acre.
Henry F. Fair.

Wheaton, Ill., Sept. 12, 1912.
In reference to crops growing on land plowed with your Spalding Deep Tilling Machine will say, that on the deep tilled land we had a good catch of alfalfa and is now looking fine, while that on the ordinary plowing in the same field is so poor that we are plowing it up.
Also a small strip of corn sown on the deep tilled land is quite noticeable better than that on the ordinary plowing. In fact the stand of corn is immense, being from 13 to 15 feet high and on ground that in 1910 the crop was too poor to gather, the most of it being left standing in the field.
S. R. Bacon.

St. Paul, Minn., May 27, 1912.
We have had your Spalding Deep Tilling Machine in use for some two weeks. We are so pleased with it that we send you herewith another order for another one, which kindly forward at your earliest convenience to Gilfillan, Minn.
C. O. Gilfillan.

University Farm, St. Paul, Minn.,
July 23, 1912.
Some time ago I had the pleasure of seeing the Spalding Deep Tillage plow at work. I was very much pleased with the kind of work done. The plow seemed to have no difficulty in turning under standing cornstalks, completely covering all the stalks. I noted that the plow turned a perfect furrow to any depth from ten to sixteen inches, completely burrying all rubbish that might be on the surface of the land. I also noted that the draft of the plow was mush lighter where the land had been plowed with this deep tillage implement.
L. B. Bassett.
Asst. Prof. in Farm Mechanics.

For more facts and information in regard to Spalding Deep Tilling Machine Address SPALDING DEPT. 68 GALE MFG. CO., Albion, Mich.

Get Your Farm in the American Northwest

Locate in the Land of Prize Cattle and Crops Along the Northern Pacific Railway

Stay in your own home country—near to home markets and quick transportation—close to good neighbors and good schools. No isolated pioneering. More rapid development is going on along the Northern Pacific than you will find elsewhere in the Northwest.

The world's greatest prize for wheat—a $5000 tractor outfit was won by farmers in the Shields River Valley, Montana, on the Northern Pacific Ry., last fall.

The yield was 59⅓ bushels per acre from a 52-acre tract—farmed by the "dry farming" system of scientific agriculture.

An average man in Northern Pacific territory last year made a bountiful living for his family of eleven children and put $2,385 in the bank as the result of the season's yield from 40 acres of irrigated land.

There are 30 million acres of Government Homestead Land available to you for proving up under the revised and easy Homestead Law which requires only 3 years to acquire the land and allows 5 months leave of absence each year.

Tell us what state or section you are most interested in and let us send you free illustrated literature and particulars about low fares made especially so you can see these Great Prosperity States of America at small cost.

Ask for our Government land pamphlet.

Write today.

L. J. BRICKER,
General Immigration Agent
238 *Northern Pacific Bldg.*
St. Paul, Minn.

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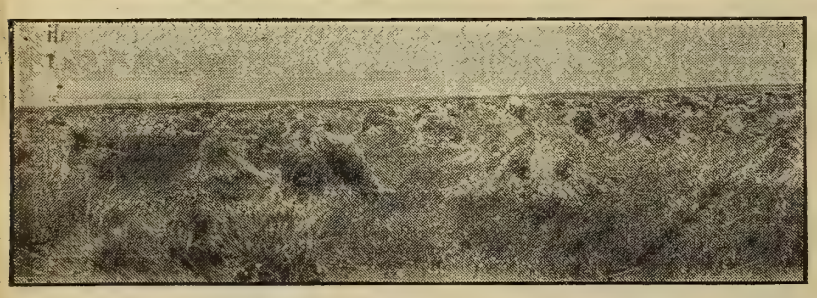
YELLOWSTONE PARK LINE



One of the Large Wheat Fields in the Shallow Water District

Logan county, Colorado. This field yielded 46 bu. per acre. This is the finest farm land in the West and we are selling it at the very lowest prices. One crop pays for the land. Finest soil and water. Close to market. Agents wanted. Write for free circular. Address

Platte River Valley Land Company
1119-23 City National Bank. OMAHA, NEBRASKA

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

perience with it. Winter wheat was recommended for reclaiming wet lands and will do well on gumbo which doesn't heave as other soils. There are objections made by some to winter wheat because it must be grown on fall plowing upon which the average farmer likes to grow corn. To place corn in the rotation requires fall plowing for two successive years, which is considered an advantage because of the more thorough tillage that results. Early plowing, preferably in July immediately following removal of small grain was recommended with the additional requirement of deep plowing. Harrow every day, and after showers while waiting for the final preparation of the seed bed. Where tractors are used the harrow is attached directly to the plow. It is necessary to prepare the best of seed beds and to be careful to conserve the soil moisture. The condition of the seed bed has much to do with the amount of seed to use, as also has the time when sowing is done. Mr. Stoddard advocates sowing seed generously always, less being required for early sowing than in late, and using a drill. Early deep sowing stands hard winters best. Drilling in standing corn had too many disadvantages compared with the usual method. The seed used is the hard headed, white wheat which competes well with Kansas grown. The grain should be stacked and carefully threshed as often the waste would reseed the ground and more.

Ward Minor, of Whiting, Iowa, in his talk upon the subject of "The Production of High-Class Beef" urged first of all the selection of only those animals for both breeding and feeding that are of the highest beef type. No one should attempt to raise dual-purpose cattle for this section for this is an age of specialization. Beef cows that are good milkers should be selected, but the milking quality should not be given so much attention that the beef form is at all sacrificed. The selection of the best types of cows and a bull that is better than the cows, the building a silo and the production of baby beef are the requisites for the greatest success in beef growing in this state according to Mr. Minor. A silo makes the acres go farther in the production of beef, and is a matter of a great deal of convenience. Expensive barns are not necessary. For the winter a large, open shed and windbreak about the lots are about all that are needed. The most of the farmers of the corn belt will find it to their advantage financially to feed baby beef, getting the steers on the market at from fifteen to eighteen months of age. The calf must be well cared for from birth. At weaning time he must not only have been kept growing, but must also be fat. The calves should be on full feed from the time that they first learn to eat grain, and should be kept on full feed until they are put on the market some twelve months later. They will probably weigh 450 pounds by the first of December (April calves) and should for the next year make a gain of two pounds daily. The first winter they will eat about twenty pounds of silage, ten pounds of corn and one pound of oil cake if given all the alfalfa and clover hay they will take. This ration should be fed until grass comes, when the silage and oil meal should be reduced gradually, but continue feeding all the corn they will consume. Cattle on grass will eat the corn better if it is soaked for about twelve hours before feeding. In the fall let the silage gradually replace the grass and add oil meal to the ration again. This method should put the steers on the early winter market and make way for the following crop of calves.

That legumes are an important feature in the conservation of soil fertility was shown by Hugh Van Pelt in his talk upon the "Relation of Legumes to Farm Management." Farmers of the past have had no fear of exhausting the fertility of the soil and the present-day farmer is taking away plant food more rapidly than his forefathers with his greater crops and his improved methods of tillage. The most severe losses have been of nitrogen and it is this element that the legume crops are so well adapted to replace in the soil, giving them their great importance in the management of the farm. "The time will soon be here," said Mr. Van Pelt, "when the soil robber will be classed among the thieves and considered as much in disgrace as the man who cracks a safe or robs a postoffice. Unlike the farmer of forty years ago he has seen the direful results of extracting the fertility from the soil and he has been taught how to maintain and build up his land. Legumes are also important in the management of the farm because they furnish to the farmer the protein feeds which he must pay such high prices for when he buys them from a feed dealer. They are necessary to the proper feeding of the farm animals, and have a greater feeding value than is sometimes realized. In New York it was found that an acre of alfalfa produced one-half more digestible matter and six times as much protein as an acre of corn. The Kansas station showed that a ration of corn and cob meal with alfalfa hay produced $11.80 worth of meat where the same ration with sorghum substituted for the alfalfa produced $6.25 worth. Such examples of the worth of this class of plants are numerous, and show us that they ought to continue to be used even more than they have in the past."

In speaking of "The Relation of the American Farmer to the World's Beef Supply," J. J. Ferguson, of Chicago, said that there are three factors to be considered in the beef supply of the country and the prices which the finished product will bring. They are the producer, the distributor and the consumer, and of the three the one who exercises the most freedom in the entire problem is the consumer. The producer must ship when his steers or hogs are ready, the packer and the others who are aiding in the distribution of the meats must find some way to put the meats before the people, while the consumer may if he so chooses refuse to buy at all. In looking into the future of the business in this country the situation over the entire world must be studied. At home the increasing population and the decrease in the supply of meat cattle has shown that it is only a matter of a very few years until the home demand will take all the meats that we can produce. In fact, now the ex-

(Continued on page 37.)

New Labor Saving Farm Machine

This 14-attachment tool sharpening outfit is a big saver or time. It sharpens and polishes all farm tools quickly and keeps them in shape. Attachments and tool rests make all kinds of difficult sharpening easy and save lots of time.

LUTHER FARM TOOL GRINDER

has extra attachments if wanted, such as milk tester, horse clipper, jig saw, rip saw, forge attachment, etc. Saves the expense of taking many jobs to town. Fitted with Dimo-Grit wheels that make 3000 revolutions per minute, no need of cooling with water or danger of drawing temper. Sent on 30 days free trial if desired. Write for 40-page free book which explains all about this new labor saving machine.

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Kendall's Spavin Cure is the old reliable, *Safe* remedy for all cases of spavin, splint, curb, ringbone, bony growth and lameness from other causes. It keeps the horses working—not loafing. What it has done for others it will do for you. Keep a bottle of

Kendall's Spavin Cure

handy so you can use it quickly when the need arises. A one dollar bottle may save a horse for you. It's worth while to be ready. Ask your druggist the next time you are in town. Tear this advertisement out to remind you. Sold by druggists everywhere, $1.00 a bottle; 6 for $5.00. Keep it in the house for family use, as well as in the stable. Get a copy of "A Treatise on the Horse" at your druggists or write to

DR. B. J. KENDALL COMPANY, Enosburg Falls, Vt. 14

Quinn's Ointment

for curbs, splints, spavin, ringbone, wind-puffs, thoroughpin, swelling of the throat and glands, all bunches, enlargements on flesh, cuts, bruises, scratches, lameness, etc. Has been *proved* as

The SURE Horse Cure

Equally valuable for lump jaw and all cattle blemishes. Is safe—humane—certain—*guaranteed*. If it doesn't work to suit you, you get your money back. Leading horsemen say it's the one great remedy. Save your horses! Run no risks! Use the *old reliable, safe* remedy. At your druggists, or sent direct anywhere for $1.00—prepaid. *Write* for Free Booklet.

W. B. EDDY & CO., Dept. H Albany, N. Y.

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Farmer or Farmer's Son

with rig in every County to introduce and sell Family and Veterinary Remedies, Extracts and Spices. Fine pay. One man made $90 one week. We mean business and want a man in your County. Write us.

Shores-Mueller Co., Dept. 69, Cedar Rapids, Iowa

VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do no answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

ABORTION.

I have a bunch of twenty-five head of cows. About a year ago they began to abort, first just one losing her calf and then in two months another, until they averaged one a month. In September I shipped out all that had lost their calves and from then on I had no more trouble until ten days ago, since when two cows have lost their calves. I have been told that a cow seldom has more than one abortion and is generally immune after the first abortion. I have also heard that you can have an immune herd by keeping those that have aborted. Is there any truth to such a statement?

It is not true that a cow rarely aborts more than once, but there is some truth to the belief that a cow may become immune after she has aborted several times. Although a cow may become immune she remains infected with the germs of contagious abortion and may spread the disease to clean cows or young heifers. A cow should not be re-bred sooner than six months after she has aborted. The germs stay in an infected stable, so that getting rid of affected cows is not enough. The stable must be perfectly cleansed, disinfected and whitewashed, including the ceilings, and yards should be plowed, cropped and seeded down.

TUMOR.

One of my four-year-old cows has a hard bunch under the belly right by the navel, which seems to be sore to the touch. She is not in the best of condition, though she has good care and feed. She has never been sick, but always seems poor.

The enlargement may be a tumor, or an abcess may be forming, as the result of a bruise, and when soft will have to be opened for evacuation of pus. Meanwhile paint the lump once daily with tincture of iodine until skin is irritated; then stop for a few days and repeat. As the cow is thriftless she should be tested with tuberculin, as tuberculosis may be detected in that way.

ITCHING SKIN.

My sixteen-year-old horse has an itch on his neck and has rubbed all the hair off in scratching. We feed him on June grass, timothy and wild hay.

Make sure that chicken lice are not causing this irritation. Wash affected parts clean with a 1-50 solution of coal tar dip and then rub in a mixture of four ounces of sulphur and half an ounce of the dip shaken up in a pint of sweet oil. Repeat the latter application every three days until well.

RHEUMATISM.

I have a sixteen-months-old Holstein bull that I have always kept in a warm basement and standing on a plank floor. During the past week he seems to be getting stiff throughout the whole body, but especially in the hind part. He is turned out daily for about two hours.

It is a mistake to keep a bull confined in a warm stable. The stable should be so well ventilated that the temperature does not exceed fifty-five or thereabout. It may be that rheumatism has been contracted from going out of warm stable into cold. Give him half an ounce of salicylate of soda twice a day in feed. Keep the bowels active and do not feed heavily.

HOG CHOLERA.

Is there a sure preventive of hog cholera, and if so, what is it and where can it be obtained?

Hog cholera may be prevented in a majority of instances by the timely use of protective serum. Relative to obtaining a supply of serum, address a letter to the veterinarian of your state experiment station at Manhattan.

LAMENESS.

I have a bay mare four years old that has been lame for over two months. I examined her hind feet and found a hole on each side of her frog. What is the remedy for this?

Cleanse the foot and cut away all loose, rotten or underrun horn of sole and frog, then swab all exposed parts with a 1-500 solution of corrosive sublimate and at once cover with boric acid, cotton batting and a bandage. Renew the dressing once daily.

IRON DANGEROUS FOR SOWS.

Is sulphate of iron injurious to brood sow, providing it is fed from the time they are bred until they farrow? I have been feeding it in slack coal in the proportion of a shovelful of coal to a thin layer of salt and a thick layer of sulphate of iron ground.

As often stated here, sulphate of iron should not be fed to pregnant animals, as it is considered dangerous. You will find this advice given wherever we have prescribed this remedy for worms.

LUMP JAW.

One of my cows has the lump jaw. I would like to be advised as to whether this can be cured, and if so, how.

The disease may be cured if taken in time and if the bones of the part are not involved Treatment consists in cutting out the diseased mass, or causing it to slough out by the use of caustics. It will be best to have the case attended to by a veterinarian.

SPAVIN.

I have a fine, black mare, eight years old, weight 1,400 pounds. In driving her she became lame in her left hind leg at the hock joint and a small bunch appeared there and still remains. She seems to be lame at times and part of the time she is not lame.

You do not say whether the lump is at the back or low down on the front of the hock. If behind it is a curb, if in the other position it is a spavin. In either case it will have to be blistered after removal of hair, but for spavin it would be best to have the part fired and blistered and then give six weeks rest in stall.

EYE DISEASE.

I have a six-year-old coach mare

YOUR NEIGHBOR'S HOGS ARE DYING

YOURS MAY BE NEXT!

Nearly $50,000,000.00 of cold hard cash for hogs which should be in the pockets of the farmers, was lost last year, because hog owners would not take the simplest precautions to protect their stock.

Worms cause 90% of all hog losses. Even the dreaded cholera attacks herds only after worms have sapped their vitality and weakened their power to resist disease. All hogs have worms, from the time they are a few weeks old. **Yours have them.**

Columbian Stock Powders will positively destroy all worms and dispel them in twelve hours after feeding. They will stop your hog losses. The oldest stock powders on the market; the leader for 25 years. The only powders that never fail to expel all the worms.

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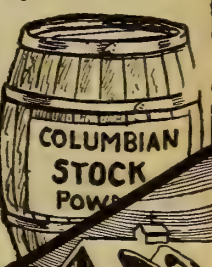

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Sloan's Liniment is a quick and safe remedy for any kind of lameness in horses, for cholera or distemper in hogs and chicken distemper or roup.

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Mr. BAILY KIRBY, of Cassidy, Ky., writes:—"I used Sloan's Liniment on a mule for 'high lameness' with success. I am never without a bottle; have bought more of it than any other remedy for pains."

Chickens All Got Well.

Mrs. J. H. WHITE, 101 Cedar St., Montgomery, Ala., writes:—"In the fall my chickens were all sick. One had bumble-foot and one had the worst kind of a sore mouth and windpipe, her eyes were closed and her head turned around to the back. I used Sloan's Liniment on them and I am happy to say that every one of them got well."

SLOAN'S LINIMENT

A Remedy For Hog Cholera.

A. J. MCCARTHY, Idaville, Ind., writes:—"My hogs had hog cholera. I have used Sloan's Liniment now for three days and they are almost well. One hog died before I got the Liniment, but I have not lost any since."

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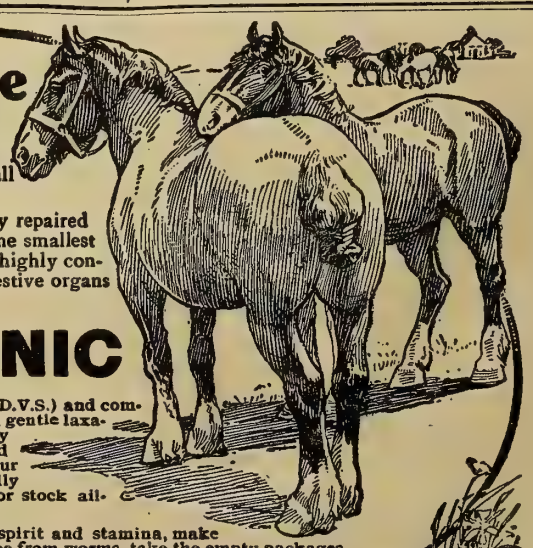
The Backbone of the Farm



The horse is the backbone and sinew of every farm—the call for horseflesh and muscle is continuous.

This everyday utilization of tissue and muscle must be constantly repaired and can only be repaired by *digested food*. But as the horse has the smallest stomach of any barnyard animal of its size and its feed much more highly concentrated, it is necessary to invigorate and tone up the horse's digestive organs to make sure of his getting the good out of his dinner.

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is a scientific preparation formulated by Dr. Hess (M.D., D.V.S.) and composed of bitter tonics that give tone to the general system, gentle laxatives that regulate the bowels and diuretics that act gently on the kidneys. It not only gives the workhorse spirit and stamina, but it will make your cows give more milk, your steers digest more food, and its results are especially marked when fed to hogs and pigs. It relieves the minor stock ailments and expels worms.

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Sulphate of Soda. Laxative and Liver Tonic.
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Nitrate of Potash. Stimulates Kidneys.
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Fenugreek. Tonic and Aromatic.
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INSTANT LOUSE KILLER KILLS LICE

weighing about 1,100 pounds. She has been fed corn stover, oats, straw, clover hay, timothy and a quart of oats at night, with free access to salt and spring water. About six weeks ago her right eye watered profusely as if hurt by corn blades. I washed it with a solution of borax in hot rain water and apparently it healed up. About two weeks ago the eye began to cloud up and now seems to have a gray film over the eyeball. She is not blind yet.

The mare no doubt has periodic ophthalmia (moon blindness) which is incurable and results in blindness of one or both eyes, after successive attacks. An affected mare should not be used for breeding as tendency to the disease is considered hereditary. Wash the eye twice daily with a 10 per cent solution of boric acid.

Ask your neighbor to subscribe for The Homestead.

Affairs of Corn-Belt Beef Producers' Association.

IN HIS address delivered at the recent annual meeting of the Corn-Belt Meat Producers' Association, the president of that association, Mr. A. Sykes, took up in detail the various lines of work that have been carried on by the association during the last year. At the time of the last annual meeting there were pending two very important cases which the association was handling in the interest of the farmers and stockmen. One was the proposed advance in rates of 33 1-3 per cent on stocker and feeder cattle and sheep, which was pending before the Interstate Commerce Commission; the other the advance in minimum weights on cars of live stock shipped within the state, pending before the Iowa Commission. The public hearings before the commission had been concluded and dates set for the submitting of printed briefs and for oral arguments at Washington, D. C. Accordingly, soon after the last annual meeting Judge Henderson, commerce counsel for the state, and the president and secretary set about preparing the brief, to be submitted by January 2d. Then followed the preparation for the arguments to be made before the entire commission at Washington on February 10th.

Aside from Judge Henderson and the president of the association, the live stock exchanges of Kansas City, Omaha, Sioux City and South St. Paul were represented before the commission and made arguments in favor of a continuance of the old rates and customs. On the other hand, the railroads were represented by their ablest counsel. On March 23d the commission handed down its decision refusing to allow the railroads to cut out the 75 per cent on stockers and feeders. This was a complete victory for the association and the live stock exchanges that assisted in the case. The winning of this case means a saving to the farmers and feeders of the state of from $200,000 to $300,000 annually in freight rates.

On the minimum live stock car case the commission rendered its decision last September. It provides that the standard minimum shall be 22,000 pounds on fat cattle, 20,000 on stocker and feeder cattle, 16,000 on hogs, 20,000 on sheep in double-deck cars, and 10,000 on sheep in single-deck cars; these minimums to apply regardless of the size of the car ordered. It is therefore not necessary to order small cars for shipment within the state in order to be protected on the low minimum.

The question of the rate on fat sheep when loaded for interstate shipment in single-deck cars, when double-deck cars had been ordered, has at last been settled, and the rate on such sheep shall be the double-deck rate; provided, however, that the shipper gives the railroad five days' notice when ordering double-deck cars. Shippers should therefore order their double-deck cars five days in advance in order to secure the double-deck rate when single-deck cars are furnished by the railroads.

During the fall of 1911 the railroads made application to the railroad commission for an advance of 12½ per cent in rates on all kinds of live stock shipped within the state. This case was never pushed, the railroads never requested a hearing on the application, and just recently they dismissed the case. This was certainly very courteous on their part, as it no doubt relieved the association of a very bitter and prolonged fight to prevent those advances. If the farmers had not been organized, and had there been no Corn-Belt Meat Producers' Association, those advances would not only have been requested, but they would have been put into effect, and the farmers would have been paying them for some time.

A word about the recent movement of the Chicago Live Stock Exchange to advance commission charges for selling live stock. Ever since the closing of the offices of the Co-operative Live Stock Commission Company it has been felt that it would only be a question of time until a demand would be made for advanced commissions; and the very light receipts during the past summer gave the agitators and the fellows who were just hanging by the skin of their teeth an excuse to make this demand.

Without the officers of the association having any knowledge of what was going on the following increases were made in commissions. On all straight car loads of live stock over the following minimums an extra charge of five cents per 100 is made:

Cattle, 23,000 pounds.
Hogs, 17,000 pounds.
Sheep in double-deck cars, 22,000
Sheep in single-deck cars, 12,000 pounds.

Up to these minimum weights the commissions remain the same as before.

Without doubt the past year has been one of the worst in regard to service and accommodations for the stockmen that has been experienced for years, and a flood of complaints and protests has been filed by the members. Had these complaints been confined to the winter months of 1912, when the snow and cold were so severe, we should not have wondered at them; but the facts are that the shippers have complained of the poor service and accommodations during the entire summer and fall. The shippers' reports filed by the members show that the service was slow and the accommodations for the stockmen very bad in many instances. Especially is this true as to overcrowding of way cars and their unsanitary conditions. It is a very common occurrence to crowd

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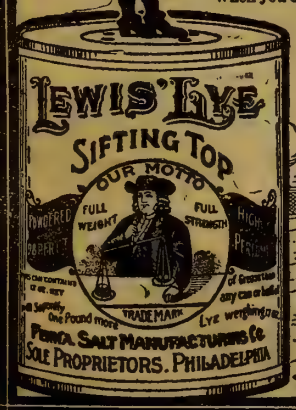

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from twenty to thirty men into one of these way cars. This is certainly overcrowding humanity, from a humanitarian standpoint the railroads should furnish at least decent accommodations for the shippers, so that they might ride with as much ease and comfort as the animals they are shipping.

Also many complaints come from shippers that their stock has been unloaded at some small town where there is neither feed nor water, and but a few miles from the Union Stock Yards, because the conductor claimed the thirty-six hour limit had expired. It is found that stock is often unloaded within twenty-five to fifty miles from Chicago and allowed to remain in those little two-by-four yards for from eight to twelve hours; when at the pleasure of the railroads they are picked up and taken into the stock yards, arriving too late for the market, and of necessity must be held over until the next day. This is certainly a gross injustice on the part of the railroads by taking undue advantage of the thirty-six-hour law. The intention of the law was to give the railroad ample time to deliver the stock from the farthest point in Iowa inside of the thirty-six-hour limit. It is well remembered that their plea was for an extension of the twenty-eight-hour law in order to enable them to reach the market without the necessity of unloading the stock, which they claimed they could not do under the law as it was then enforced. At that time the stockmen believed that the railroads were acting in good faith, and took them at their word and consented to the extension of time to thirty-six hours; but since then they have learned the railroads were only playing for more time to get stock to market, and that the speed on stock trains had been reduced in proportion to the extension of time, and that the percentage of live stock now unloaded on account of the expiration of the time limit is practically as large as it was under the twenty-eight-hour law. This should not be the case, however, and it does seem that any Iowa-Chicago line of railroad ought to be ashamed to confess that it cannot deliver a car or cars of live stock from the farthest Iowa point to Chicago inside of thirty-six hours, when they formerly did it almost every day in the week inside of twenty-eight hours.

Then there is the question of a five-day-per-week Chicago market instead of three, which is being agitated again by the commission men of the the Chicago Live Stock Exchange. Some time ago a meeting was held in Chicago at which representatives of the exchange, the packers and the railroads decided to try to further the plan for a five-day-per-week market, and if possible distribute the receipts more evenly over the five-day period. They are now asking the feeders and shippers to join with them in making this plan a success. This is certainly a commendable undertaking and one in which our members should most heartily join.

THE POSSIBILITY OF GROWING SUGAR BEETS.

To the Editor of The Homestead:

When interest in the manufacture of sugar from beets was first aroused in this country, seventy-five or eighty years ago, Michigan was honored with the distinction of being the first state in which the new project met with success. While the sugar industry did not develop as rapidly in Michigan at first, as it did in some of the western states, it's growth during the past thirty year leaves little room for doubt as to whether or not sugar beets can be grown with profit in that section of the country. In spite of the rapid development of the industry in some of the western states, where natural conditions are far more favorable, Michigan still stands well at the top of the list of beet sugar producing states. It is rather remarkable, therefore, that the industry has spread so slowly to the surrounding states, where natural conditions are about the same, if not better. The cause, however, may be found in an observation of the general trend of development in these states during the past.

The general practice in the development of a new section of the country is to grow the one crop that brief experience has shown to be best adapted to existing conditions. This particular crop is usually exploited on as an extensive scale as possible, to the exclusion of all others. Thus in the development of the north central states, west of the Mississippi river, wheat was the chosen crop and in North Dakota and northern Minnesota wheat will doubtless continue to be the predominating crop for many years to come. In the eastern part of South Dakota, southern Minnesota and northern Iowa, however, wheat has been gradually replaced by other crops; principally corn, and other cereals.

While beet culture has spread to some extent to Wisconsin, it has played only a very minor part in the cropping system in northern Iowa, or southern Minnesota. This dilatory progress in the industry cannot be attributed to the lack of interest on the part of capital, but rather to the attitude taken by the farmers themselves.

As has been previously stated, such crops as wheat, corn, and other cereals may be produced by extensive methods of agriculture. The development of modern agricultural machinery has made it possible for one man to care for a considerable area of one of these crops with comparative ease, and at but small expense.

Sugar beets, on the other hand, are a crop that is particularly adapted to intensive methods of farming, requiring a large amount of time and hard labor.

There are several reasons, however, why beets can be grown with profit in the section in question. In the first place, it has been adequately shown, both by experimentation and by practice, that conditions are favorable for the production of good quality beets. To be sure they cannot compete with beets from some of the western states on the matter of quality, but they can be produced with a percentage of sugar high to give the factory a fair working margin.

Then too, beets are a money crop, producing returns largely in proportion to the time and labor expended. It has been shown by experimentation that not only the yield per acre, but the percentage of sugar which the beets contain, is influenced to a marked degree by the amount of cultivation which they receive.

With good care under normal conditions, a farmer should be able to

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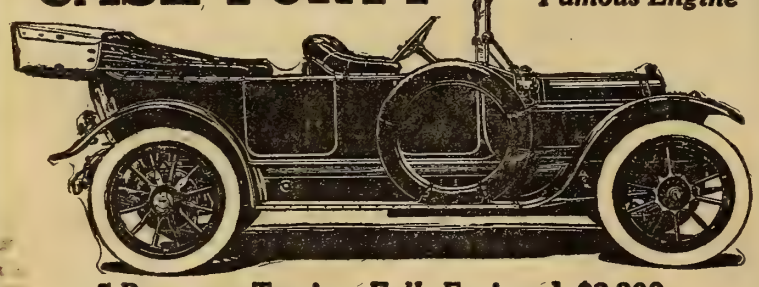

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The way to do it is to clip him before you put him at the spring work. Take off his winter coat that holds the wet sweat and dirt. He'll get more good from his feed, look better, rest better and give you better service. The best and most generally used clipper is the

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It turns easy, clips fast and stays sharp. Gears are all file hard and cut from solid steel bar. They are enclosed, protected and run in oil; little friction, little wear. Has six feet of new style easy running flexible shaft and the celebrated Stewart single tension clipping head, highest grade. Get one from your dealer or send $2.00 and we will ship C. O. D. for balance. Money back if not satisfied.

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CLIP ALL THE WOOL

YOU LOSE $1.00 ON 6 SHEEP BY THE OLD METHOD

You know the size of your flock—figure how much more money you'll get if you use a

Stewart No. 9 Ball Bearing Shearing Machine

It's the most perfect hand operated shearing machine ever devised. Has ball bearings in every part where friction or wear occurs. Has a ball bearing shearing head of the latest improved Stewart pattern. Price complete, including 4 combs and 4 cutters of the celebrated Stewart quality is only—

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Get one from your dealer, or send $2.00 and we will ship C. O. D. for balance. Money and transport charges back if not satisfied.

produce from twelve to fifteen tons of beets to the acre. With the prevailing price of $5 per ton, this would give him a gross return of $60 to $75 per acre. According to an estimate made by the department of agriculture, it requires about seven tons of beets to pay for the production of the crop, which would leave a net income of from $25 to $40 per acre, returns as large as can reasonably be expected from any crop. Large yields of twenty to twenty-five tons to the acre are not at all uncommon, and will, in all probability, be more common as intensive methods of cultivation become more generally practiced.

Another factor in favor of the sugar beet on the small farm, is the important place which it can profitably fill in the crop rotation. It is a plant that requires care and skill in its production, and the large amount of cultivation which it must receive cannot help but leave the mark of its beneficial effect upon succeeding crops. Its deep-rooting character makes it especially valuable in loosening up the sub-soil, providing better aeration and drainage, and in other ways making the lower soils a better feeding ground for the roots of other crops. It has often been objected that beets are hard on the soil, and it is true that they do remove considerable amounts of the mineral elements, phosphorus and potash.

The exhaustive effects of the sugar beet crop is well shown by results obtained at the Michigan Experiment Station in a comparison of results obtained from fertilized and unfertilized plats. The decrease of yield on the unfertilized plats as compared with plats receiving annually a normal application of fertilizers was 1.25 per cent the first year, 11.25 per cent the second, and 13.85 per cent the third.

In view of what has been said as a general guide to the proper use of fertilizers on the sugar beet, when a complete fertilizer is deemed necessary, we would suggest a mixture having about the following composition, nitrogen 4 per cent, available phosphoric acid 6 per cent and potash 9 per cent.

The time is near at hand when commercial fertilizers will have to be used to retain the productive power of the soil, regardless of the crop grown, at any rate, the return from the beet will readily warrant the expenditure. On the other hand, a large part of mineral elements removed from the soil are stored in the leaves and crowns which are left on the farm, and may either be turned back into the soil, or fed to farm animals, forming a very valuable succulent feed, especially in a dairy ration.

The great drawback to the production of the sugar beet in the north central states, is the labor problem. The farmer of that section who is accustomed to the handling of his farm with machinery, is particularly averse to the drudgery of the hard labor involved. By co-operation between the factory and the farmer, Michigan has solved this problem by importing cheap labor to do the hand work in the beet fields and the same solution is equally applicable to the other states as well.

The United States, at the present time, is producing only a comparatively small percentage of the sugar consumed within its borders, so that there is ample room for a much larger development of the industry, and capital has shown itself to be ever ready to provide means of extraction, provided enough of the raw product could be supplied to warrant the erection of a factory. It is a field which indeed holds out bright prospects for the farmer of that section, and one whose returns both directly and indirectly have too often been underestimated. There are large areas admirably adapted to the production of this crop, and the farmers, when they are ready to take up the work in earnest, will reap ample rewards.

George Wright.

SALT SUPPLY OF KANSAS.

Kansas has enough salt to last the world 10,000,000 years. That is the substance of a report made public by Prof. Erasmus Haworth of the University of Kansas, state geologist. Professor Haworth made a survey of the salt resources of Kansas and has prepared a map showing in detail the quality and amount of the known salt beds of the state. So vast is the area of saline deposits that Professor Haworth is confident that the world need fear no salt shortage for countless ages.

"There are at least 10,000 square miles of salt beds in Kansas," said Professor Haworth. "I have no doubt but that there are 20,000 or 30,000 square miles, but I based my report only on proven territory. The average thickness of the salt bed is 300 feet all practically pure salt. "The salt may be obtained by mining or by using an evaporation process. By the latter method, most of the commercial product is obtained. Rice, Reno, Ellsworth and Kingman counties are underlaid by salt beds."

Danish eggs bring fancy prices because they are always fresh, well sorted, well packed and guaranteed. Each egg must be stamped with the date on which it is laid, with its own number and that of the group to which it belongs, so that it is possible to ascertain exactly who supplied each egg. The farmer who sends in a bad egg is fined by the society.

Ask your neighbor to subscribe for The Homestead.

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(Trade Mark Registered.)

THE LAME HORSE is never cured whose owner reads and doubts,---BUT FAILS TO ACT---Here is a case in Point,---And what Happened to this Subscriber is Taking Place with Thousands.

Letter No. 1 Orleans, Vermont, April 26th, 1912.
Troy Chemical Co., Binghamton, N. Y.—Your adv has given me courage to try again. I have a valuable pacer. Two years ago he went lame. I tried every remedy and Doctors have blistered three times for spavin and twice hip. The symptoms are—etc., etc. I determined to see what you think. HALE MASON.

Letter No. 2
Orleans, Vt., May 2nd, 1912.—I received your letter and book yesterday and believe you are right about its being a bone spavin. I was so encouraged I drove eight miles and bought a bottle of Fred D. Pierce, druggist at Barton, and will closely follow your special instructions. Thanking you for your quick reply to my first letter, I remain,

Letter No. 3 HALE MASON.
Orleans, Vt., Oct. 2, 1912.—Perhaps you expected to hear from me before, but I have been waiting to see if any trouble would return after stopping the treatment. I am pleased to say the horse is well. I cannot thank you enough for your interest and the advice you gave. If I had known about it two years ago it would have saved me a lot of money. Yours respectfully, HALE MASON.

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IF there is one thing that emphasizes the special advantages in the Ozarks for stock raising, it is the unusual success and big profits which farmers there are making with baby beef. Good stock, after one year's feed, is bringing them $50 per head profit!

Here is the plan that the Ozark farmer is following to get such profits. He buys up good grade calves at $15 to $20 a head (providing he dosn't raise them himself). Then, instead of letting them "mosey along" until the second year with just enough rations to keep them in good trim, he starts feeding them for quick flesh gains *right away*. The calves are put on flesh-producing field grasses until after corn is harvested; then the shocks, with a little extra now and then, keep them going until January. That leaves only three months of winter feeding (for pasture is green again by April 1st).

By that time the beef will weigh around a thousand to twelve hundred pounds easily, and will top the market at $8 a thousand or more. The feeding, on account of the short winter and other advantages in the Ozarks, doesn't cost more than $25 per head, all told—that's a clean profit of around $50 from every baby beef.

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Baby beef is just *one* way of making money in the Ozarks. It is *just one* example going to show why all kinds of stock raising is so profitable in the Ozarks. Hogs, for example, bring Ozark farmers around 5 cents a pound profit, because they cost so little to produce per pound—only 2½ cents, or less. Sheep make $12 per ewe easily, and Ozark dairymen are getting $8 to $10 per cow per month, regularly.

The reasons for these profits are easy to understand. The Ozarks have very mild, short winters—good pasture from April 1st to January 1st—only three months of winter feeding. Right there is a mighty big cut in costs.

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But all these advantages mean more when it is realized that good land can be bought now in the Ozarks at $12 to $15 per acre. It's a proposition that deserves any man's serious thought and investigation right *now!*

A free book for you!

It's not the kind you can pick up anywhere. Double sized pages, 75 actual photo pictures of farms—some in full color. Written by a man who knows farming. Takes up the Ozark sections, county by county, and describes the farming conditions there. Also tells actual experiences of Ozark farmers. I haven't many copies of this book on hand; please drop me a postal to-day for your free copy.

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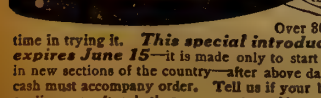

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UNCLE SAM AS A ROAD BUILDER.

Scarcely any public work is more permanent in its character when once undertaken than that of highway improvement. When a road is once located it is difficult to change its location. When once a foundation has been laid for a permanent highway the laying of a new foundation necessitates reconstruction of the entire surface.

It is, therefore, important that, before entering upon a plan of national participation in highway construction, we should adopt a definite and comprehensive plan based upon anticipation of needs and operations for many years to come, in order that we may be certain the money expended and the work done in one year will co-ordinate with the expenditures and constructive work of the next year, and for many years to come. Care in planning a system and methods of procedure may save us millions of dollars of waste or bring vastly greater results than would be attained under an ill-considered and haphazard action.

In the last postoffice appropriation bill, the house inserted a provision, after the bill had been reported from the committee and while it was under discussion on the floor of the house, providing the classification of roads used for the carrying of United States mails and for the payment by the government of an annual sum as rental, in consideration of the fact that the government uses these highways.

Such payments were to be either $15, $20 or $25 a mile—according to the character of the road over which the mails were transported.

This provision was rejected by the senate for several reasons: First, it did not provide that the federal appropriations should be expended in highway improvements; second, it established the policy of obligating the government to pay to local communities compensation for the use of highways in conducting the rural free delivery service—a service that is conducted at a great loss to the government and for the special benefit of the communities served; third, it was the beginning of a system of compensation that had not been carefully considered, but which when once adopted would certainly grow to immense proportions.

It is estimated that in the beginning the appropriations under the provision proposed by the house of representatives would be approximately $18,000,000 annually. It is beyond question that this amount would be very rapidly increased under the pressure of constituents upon their several members of congress, until the highway appropriations would be recognized as the grossest abuse of the pork barrel feature of national legislation. From every section of the United States would come the protest that the compensation provided is inadequate for any practical purpose, and that the government must very materially increase its allowance; thus resulting in expenditures far beyond present calculation and without any assurance of permanent results.

Believing that the government should not enter upon any policy of participation in highway construction without first giving careful attention to every phase of the subject, the senate rejected this provision and inserted a substitute, directing the appointment of a joint committee of the two houses for the study of the entire question and the drafting of such legislation as may meet the approval of the committee.

In legislating upon the subject of national participation in road improvement four different problems must be solved:

First—To devise a plan that shall insure an equitable distribution of the funds of the different sections of the United States.

Second—To determine whether the money should be expended in the construction of main arteries for interstate commerce, or to be expended upon local branch lines that will serve merely as feeders for railroads.

Third—to devise a plan of co-operation with the different states that will be acceptable to them and insure the co-operation of all with the federal government.

Fourth—To throw round the national funds such safeguards as will insure their proper expenditure and guard against waste.

I think it will be generally felt that a plan should be adopted which will guarantee an expenditure of national road funds in the several states approximately in proportion to the amount each state contributes to the fund. I say "approximately," for I apprehend that circumstances may show the need of expenditure of a somewhat larger portion in the undeveloped and thinly settled regions of the United States than is expended in the thickly settled region.—[Senator Bourne in The Saturday Evening Post.

COST OF RUNNING THE AUTO.

To the Editor of The Homestead:

My car is a 1912 model five passenger car weighing 3,200 pounds and was bought May 18th last. Up to the present time it has covered a distance of 4,658.6 miles and I have gotten fifteen miles to each gallon of gasoline which costs fifteen to seventeen cents per gallon. I have used two and one-half pounds of hard oil at fifteen cents per pound and eighteen gallons

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AGENTS PORTRAITS 35c, FRAMES 15c. Shee Pictures 1c, Stereoscopes 25c, Views 1c. 30 days credit. Samples and catalog free. Consolidated Portrait Co., Dept. 4477, 1027 W. Adams St., Chicago.

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Seed Oats Regenerated Swedish Select. Ask for sample and price Address **H. D. CLORE, LUCAS, IOWA.**

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He doesn't generalize. He comes right down to brass tacks and tells you what Farmer Tull is raising—shows you actual pictures of Farmer Tull's crops, etc.; and tells you what the same kind of land, near Tull's place, would cost you *now*. He got the personal experiences of scores of farmers in this way; and took actual photos of their places. He points out the best sections for wheat growing, for corn, fruit, truck, etc.—in plain words he sifts the whole situation down to a point where you can say to yourself: "*There* is the most likely locality for *my* line of farming—I'll go and investigate." (And with low round trip fares via Cotton Belt Route twice each month your trip will cost mighty little.) Send a postal *today* for

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of these books—115 farm pictures and 100 pages of farm facts! I know you'll be glad to get them. Write *now*.

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I saw the future of the Romeo district of the Famous San Luis Valley, the home of the market-topping pea-fed lamb and hog. I purchased some land which I now desire to close out, and I will price it right. The country is well established. Good church and school accommodations. Abundant water supply insuring good crops of wheat, oats, barley, potatoes, etc. Continued advance in land value sure. Will accept small payment down and long time on balance.

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of cylinder oil at sixty-five cents per gallon. Cylinder oil is used in the transmission. The crank case and oil reservoir are drained and cleaned each 500 miles.

I use the Prest-o-lite gas and so far have used five tanks at a cost of $2 each, also recharging storage battery three times, $1.50. It is used for side and tail lamps, horn and starting.

The car is equipped with 36x4-inch tires and have had no tire trouble and only one puncture. Have had no kind of repair work done to the car yet. My boys take care of it and we have ground the valves twice ourselves. We think this is cheap riding as the car goes through all kinds of weather.

Atchison county, Mo. B. J. Jones.

CORN SHOWS OUT OF DATE.

To the Editor of The Homestead:

During the past few years much has been written on the subject, corn. The farm journals have filled their columns with reports of corn shows coming and gone, the winners have had their "pictures taken" beside the winning ears. Farmers everywhere have been urged to emulate the example of so-and-so of such-a-place, who won a silver cup with ten pretty ears of corn.

By inference farmers have been told to go and do likewise, that is, get some seed of the prize-winning strain. Surely, if it won a prize it must be better seed. All of which is all right in a way. I haven't any great fault to find with the corn shows, or the corn that wins at them. They were a necessary evil in their day.

Corn shows were all right when it was necessary to do something more or less sensational in order to awaken even passive interest in corn improvement. But after interest is awakened the corn show has fulfilled its mission, and should be abolished. Its awards are misleading, and throw men off the right track rather than leading them into better knowledge.

We are ready for a great forward step in corn improvement work. I dare any sincere corn improver to refute what I shall state in the following paragraph.

Because in the ordinary corn show judging the standard of comparison is beauty of form and utility from the market standpoint, solely, false ideals and false values are created by premium awards. I have seen sweepstake ribbons tied to ears which would have tested 50 per cent weak sprouts, and were unfit in every respect to be called seed ears. I have tried out show ears in my test plats, and found, even when vitality was good and a good stand obtained, that the yield was low, a large percentage of the stalks were barren of ears, the stalks were weak, and broke easily, and the general returns from the winning ears far below those from less favorable ears which possessed more real utility.

The seed tester has obviated the need of planting weak vitality ears, because their appearance was good. It remains for seed corn improvers to weed out low yielding ears, which are inherently low yielding as I have proved in my tests time and again, and really begin improving corn by paying less attention to type and more attention to utility, which is measured accurately by most bushels of sound corn per acre.

If corn contests are to be held, let it be for the highest yield from a given acerage, instead of the ten prettiest ears the grower was lucky enough to find. Then and then only will the awards stimulate growers to dig for real utility. More can be done in one year, by individual ear testing for yield, to improve the corn yield of the corn-belt states, than has been accomplished in ten years of shows, accompanied by a hullabaloo about uniform type, color of grain, dimple or pinched dent, etc. C. Ray Moore.

Ringgold Co., Iowa.

In the future our beef supply must come from our farms. The ranches are being cut up and sold for small farms. Why not raise a few beef cattle each year to consume the surplus hay and grain crops?

Pigs and peanuts make a good combination and they are adapted to most farms in this country. Give them a trial this year.

LAND AND HOMES FOR SALE

FOR SALE
DIRECT FROM OWNER

194 ACRES. One of the best and most highly improved and productive up-to-date farms in Indiana. Eleven-room house, cellar, hot and cold water, bath and acetylene lighting plant. Large new barn, cribs, granary, and one of the best and most sanitary hog houses that can be built. All cleared and in high state of cultivation but 20 acres and that is a fine woods pasture. Three good wells, cement tanks and water pumped with engine and one windmill. No stumps, no waste land. Three miles to two good towns, 1½ miles to traction stop. On macadamized road, rural route and telephone. Can raise 100 bu. corn per acre, good seasons, and anything else grown. Have cut alfalfa four times per season. Reason for selling, health. Price $125 per acre. Easy terms. Reference, H. E. Browning of The Homestead, as he has been on this farm and has seen corn that made 100 bushel per acre. Address

Geo. W. Bolds - Bryant, Indiana.

SOUTHERN MINNESOTA LAND BARGAINS.

I HAVE a finely improved farm of 280 acres, tw miles from good town, only 18 miles north of Iowa line, at $85.00 per acre. $2,500 cash will handle this fine farm—and it certainly is a fine one. Also have a fine farm of 320 acres at $70 per acre, and one of 400 acres at $75.00 per acre. Any one of these are worthy of your consideration.

11 sections of selected prairie land in Lincoln county, Colorado, at $9.50 per acre. This tract will make a fine colonization proposition.

18 sections in Billings county, North Dakota, in a very fine stock ranch with good buildings. Northern Pacific Railroad runs through the land. Will sell at $5.00 per acre. Small cash payment. Balance to suit at 6%. The coal alone on this land is worth many times more than the sale price of ranch.

In Wisconsin I have some very fine cut-over lands that are suitable for dairying. Finest water in the world. Greatest tame grass country in the United States. Lands are near markets and will sell at $7.50 to $10.00 per acre, upon your own terms. A small cash payment will secure you one of these tracts. Write for information concerning any locality you may be interested in. **Geo. R. Slocum, 601 Pioneer Building, St. Paul, Minnesota.**

CLARK COUNTY, WISCONSIN

VIRGIN land, easily cleared, good soil, healthful, climate, adequate rainfall; roads, churches and schools, creameries and markets; all conveniences of a well-settled, prosperous community.

$18 PER ACRE

On terms to suit you. Monthly payments of $12.50 if desired. Special bargains for those who buy before spring. Write for full particulars to

WEST-CANNON-BISSELL COMPANY, 97 Wisconsin St., Dept. H, Milwaukee Wis.

WE WANT YOU to know about the greatest section in the irrigated West. Richer soil cannot be found anywhere; climatic conditions, railroads, churches and educational facilities are the best; in fact this is a section possessing all the advantages of a populated community and none of the hardships of recently reclaimed districts. Here is opportunity for the farmer, dairyman, orchardist and investor. Write for literature that will open your eyes to a great and growing country. Mountain Home Co-operative Irrigation Co., Mountain Home, Idaho.

COME SOUTH

200 ACRES convenient to Birmingham and Gadsden; 90 in level, fertile fields; five-room dwelling, barn and tenant house; pike, R. F. D. and telephone service; ¾ mile to station; 800 twelve-year-old apple trees, bearing; grape, pear, fig, E. walnuts. Price only $4,000. For full particulars of this, as well as many others, address

SID L. BEASON
"The Land Man." Whitney, Alabama.

OWN A FARM IN TAYLOR COUNTY, WIS.

GREAT dairy county. Prices $10.00 up; 10 yrs. to pay. We are OWNERS. Improved and unimproved. Values rising steadily. Safe, sure, large returns. Get table of crop yields from gov't. records Sample bargain—120 a., well located on main traveled road, 15 a. clear, some good timber on bal., frame house and barn. Price $22.50 per acre. We sometimes take in desirable property in pt. pyt. of a farm. **Loeb-Hammel Realty Co., Box B, Medford, Wis.**

LOCATE near the great markets. 190-acre farm in fertile Mohawk valley. Surface rolling; gravelly; clay loam; well watered; good buildings, sheltered; summer and winter silos. Usually keeps from 25 to 30 milch cows besides horses and young stock and sells hay. Some alfalfa, enough woodland. $40 per acre. Price about enough to replace buildings. Poor health. P. H. Elwood, R. 3, Fort Plain, New York.

POSITIVE EVIDENCE For U. S. Census figures of yields in Wisconsin's cheap land districts write us. We have no lands to sell, but will tell you what lands are available, what they produce and, if you desire, will tell you the owners. Wisconsin Advancement Association, 331 Caswell Block, Milwaukee, Wisconsin.

FOR SALE

200 ACRES of good, level land; 150 acres tillable, balance wood and pasture; good buildings; 3 miles to good town. Price $6,000. Send for list of Cayuga county farm bargains. **J. H. Vanden Bosch, 53 Genesee St., Auburn, New York.**

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

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250 STRAWBERRY PLANTS $1.00

CHOICE of Sen. Dunlap, Warfield, Crescent or Excelsior. Send for **Free Illustrated strawberry Book.** Tells how to grow them. **The Wildhagen Strawberry Beds, B. 414, Waterloo, Ia.**

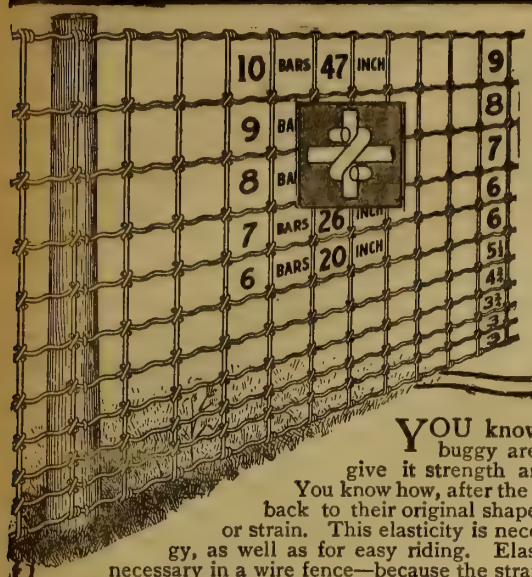
1913, Great Minnesota Year!

BUY lands now! Rapid advance certain. Snake River Valley, Aitkin County Lands. Write land agent C. R. I. & P. Ry., 116 Wolvin Bldg., Duluth, Minn.

CENTRAL MISSOURI. Write for list of corn, wheat, clover and blue grass farms, described and priced, that will prove profitable and satisfactory for homes. Mild, healthful climate. Hamilton & Crenshaw, Box 3, Fulton, Missouri.

FOR SALE Good 200-acre, level, rich soil, imp. farm in Wisconsin; ¾ mile to high school, 2 railroads and creamery. Gold mine for the right man. Address L. B. 5, Necedah, Wis.

Elastic Tension



How It Adds Years to the Life of Farm Fences

YOU know why the springs on a buggy are bowed—don't you? To give it strength and elasticity—springiness. You know how, after the strain is released, they fly back to their original shape, ready for the next load or strain. This elasticity is necessary to the life of a buggy, as well as for easy riding. Elastic Tension is even more necessary in a wire fence—because the strains are more sudden; heat and cold contract and expand the wires, and if the fence does not give and take it soon becomes baggy, saggy, and goes down. That's why you see so much wire fencing sagged—it lacks the proper elastic tension. In

SQUARE DEAL FENCE

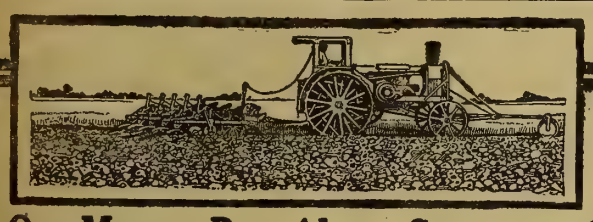
(The Kind That's ALWAYS Trim and Tight)

we have solved this important problem on the same principle as the buggy spring. Note the Wavy Strand Wires which form the "springs" in SQUARE DEAL Fence. These furnish the give and take caused by sudden strains, heat or cold. They are further strengthened, stiffened and supported by the one-piece Stay-Wires which go from top to bottom—making a fence that is unusually rigid, yet **elastic** enough to relieve the undue strains and thus **prolong** its life many years, at the same time keeping it **always** tight and trim. That's why SQUARE DEAL Fence lasts longer, is cheaper, looks better and gives such universal satisfaction.

Write for Catalog, Prices and Free Folding 2-ft. Rule

A postal brings all, postpaid, by return mail—also our nearest dealer's name. Send today, and get posted on the fence that ALWAYS STAYS tight and trim.

THE KEYSTONE STEEL & WIRE CO., 417 Industrial St., PEORIA, ILL.



One Man or Boy, Alone, Can Run This Avery Plow Outfit

You don't need any plowman with an Avery "self-lift" Engine Gang. The plows are handled **entirely by power taken from the plow wheels.** Pull a cord at the ends of the furrows and the plows lift out of the ground—turn around, pull the cord again and they drop back in.

This wonderful Avery "Self-Lift" Engine Gang puts all the Hand Lever Plows all out of date. **Saves** you the wages and board of a plowman. **Saves** you all the **hard, back-breaking work** of lifting and lowering the plows by hand levers at the end of each furrow.

And with an Avery "Self-Guide" attachment you don't even have to touch the tractor steering wheel from one end to the other. Just sit there and watch the outfit run. **Plowing is certainly play with an Avery "Self-Guide" Tractor and "Self-Lift" Plow.**

AVERY "Light-Weight" Tractor and "Self-Lift" Plow

Make More Money By Power Farming Like Others Are Doing

Power Farming with an Avery Outfit is a Proven Money Maker. Definite cost records kept by owners prove a saving of **half and more** of the expense of horse plowing, also a big saving in harrowing, discing, seeding, harvesting, hauling, grading and other work. You can raise **bigger crops** by tractor farming—**plow deeper** and do **all your work better** and at **just the right time.** Also save hard work for yourself and make farming more interesting for your boys.

You can get an Avery Outfit to fit **any size farm**—12–25 H. P. Tractor pulling 3 to 4 plows and plowing 10 to 12 acres per day, for small farms—20-35 H. P. pulling 5 to 6 plows and plowing 15 to 18 acres per day, for medium size farms—40-80 H. P. pulling 8 to 10 plows and plowing 25 to 30 acres per day, for large farms.

Get Tractor Farming Facts, Free

Learn the facts about **Tractor Farming.** The Avery Tractor and Plow Book tells you about them. Also tells about the wonderful **"Light-Weight"** of Avery Tractors—the 12-25 H. P. weighs less than 7,500 pounds, the 20-35 H. P. less than 11,500 pounds, and the 40-80 H. P. only 20,000 pounds. Shows why they are the **simplest Tractors built.** Explains all about the **Avery Mutual Benefit Selling Plan** of **Sold on Approval Terms, Strong Guarantees** and **Low Prices.** Write—get all the facts—ask for Avery 1913 Complete Tractor Book with Power Farming Facts, full information about Avery "Light-Weight" Tractors and "Self-Lift" Plows and the Avery Mutual Benefit Selling Plan. Address

AVERY COMPANY, 1265 Iowa Street, PEORIA, ILLINOIS

Also manufacturers of Avery Steam Traction Engines, "Yellow Fellow" Grain Threshers and Gasoline Farm Trucks.

"Can't Sag" Gates Save You BIG MONEY

Cost only one-third as much as ordinary iron, wire or gas pipe gates, but last twice as long. Neat in appearance—best and strongest gate made—light, easy to handle, opens both ways. Boards are double *bolted* between eight angle steel uprights and double truss braces. *guaranteed never to sag.*

Cost Less Than All Wood Gates—Last 5 Times as Long

Can't Sag Gates are furnished complete, ready to hang, or just the Gate Steels which include everything except the boards. Patent self-locking hinge feature—reinforced two piece malleable hinges. Six Triangular Truss Braces make gates extra strong.

Improved Elevating Attachment permits the gate to be raised full length from 5 to 30 inches, so small stock can pass under, and to swing over snow.

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30 Days Free Trial and 5 Year Guarantee

Catalog shows both complete Gates and just the Steels, at prices you can't afford to miss. Send for my new catalog with free 30 days' trial and *freight prepaid offer.*

Alvin V. Rowe, Pres.

ROWE MANUFACTURING CO.
495 Adams St., Galesburg, Ill.

"Can't Sag" Gates & Steels

Live Stock Insurance.

By James H. Murphy.

THE loss of a single well-bred and registered animal may mean the loss of hundreds, or in some cases of thousands of dollars, and to farmers in moderate circumstances such a loss is almost irretrievable. Such an animal is hard to replace without a big cash outlay, and in the case of a breeding animal, its death removes the source of a considerable income upon which the farmer is depending. Farmers in this country have been accustomed to certain very limited lines of live stock insurance, but the subject has not been thoroughly covered, and it still remains for some enterprising company to advance a live stock insurance schedule, which, while reliable, will be cheap enough to appeal to any breeder of fairly good stock.

We have never attacked the live stock insurance problem with anything like European completeness. In these older countries, live stock insurance has been developed to a degree that amazes the average American. A large percentage of their farmers are so near the margin, that the loss of an uninsured pig is a serious matter. To a man who has only a few acres and a horse and a cow or two—a loss of one of these large animals, it has been claimed, may mean life-long financial embarrassment. He cannot easily recover from such a disaster, but which to meet his American brother need only to apply a little industry. Under the spur of such conditions Europe has tried almost everything from the local mutual life insurance company to the great state-aided ventures. Their experience may afford us untold aid in devising a plan of live stock insurance which will be equitable and reliable.

In the Union Stock Yards at Chicago a premium of ten cents per car load is charged to provide fire insurance. This sum is turned over to a large eastern insurance company, which becomes liable to owners for loss or damage by fire to cattle, hogs, sheep and goats, while in the yards. Important as this project may be to the man who markets directly in Chicago, it is of no use to the average breeder or stockman, and at best covers but a brief period in the life of the insured animal. In Indiana live stock insurance has been developed to a point of greater utility than in many sections of this country. Policies of the company operating in this state cover death losses from any causes, and the premium rate is moderate, based upon the age and value of the animal. An average age limit of twelve years on horses, and eight years on cows is fixed in order to protect the companies from losses due to death of animals from natural causes accompanying old age. As yet, however, the idea of live stock insurance has not been as universally adopted as it deserves. Only the breeders and owners of exceptionally valuable stock have taken advantage of it, and until it becomes general among breeders and stockmen it cannot be sold nearly as cheaply as its popularity would require.

In the dairy sections of our country where high production greatly increases an animal's value for breeding purposes, live stock insurance would be a great boon to those men who desire to breed good animals, but due to the chances of loss they are very reticent about investing in good foundation stock. If they could purchase and then insure one or two good animals, it would be a big incentive toward starting right and building up a high-class herd, instead of the scrub pure breds now too often seen. Young men would more willingly invest in pure-bred mares, if insurance could be obtained to prevent them from loss in case of accident or death of the animals.

Live stock insurance in this country is in its very infancy and while it is a new subject, it is a very vital one, intimately connected with the raising of better stock, and of their universal dissemination among the farmers. Action in the matter, however, must be taken by some reliable company or the state, in order to make the venture a success, and there should be a big future for such a venture.

Soy beans will become one of the most important legumes when its advantages are better understood. Try soy beans.

The Weakest Link

YOU CAN MAKE THE GATE THE STRONGEST SPOT IN YOUR FENCE BY USING THE

Cyclone Victor Gate

HEAVILY GALVANIZED

High-carbon, tubular steel, unbreakable frames.

Large, heavily-galvanized, rust-proof wire fabric **wrapped on** the frames—no holes in the frame to weaken it—Double raise device; automatic stock-proof latch; adjustable stretcher bar; and other important exclusive features.

COSTS LESS THAN OTHERS not as good.

Guaranteed for life.

CYCLONE ORNAMENTAL FENCE

is built in various designs for durability as well as beauty. **Rust and Sag Proof;** easy to put up and cheaper than wood. Your dealer has them—See him or write us for Free Catalog.

Cyclone Fence Co., Dept. 76, Waukegan, Ill.

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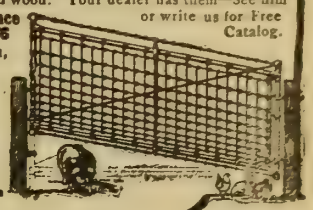
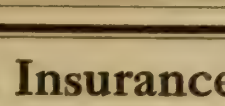


Do You Want This Steel Gate FREE



One farmer in each community can get one for helping us introduce Tro Jan Gates to his neighbors. Write for particulars.

The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel caster brace. Unbreakable. Raises at either end. Sold on 2 years' trial at our special direct-to-you factory price of **$4.95.**

W. K. VOORHEES, Mgr. Standard Mfg. Co. 300 Main St. Cedar Falls, Iowa

KITSELMAN FENCE

We make you the same price we would make the Dealer or Jobber. That is why we can save you money. Look at these very low prices.

14 CENTS A ROD for 26-in. hog fence.
23½c. a rod for 49-in. farm fence.
25½c a rod for 60-in. poultry fence.
$1.55 for 80 rod spool of Ideal Barbed Wire. Large free Catalog showing 100 styles of Farm, Poultry and Lawn Fence.

KITSELMAN BROS. Box 290 Muncie, Ind.

STRONGEST FENCE MADE

FROM FACTORY DIRECT TO FARM

26-inch Hog Fence,.....13½c.
49-inch Farm Fence,.....22c.
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80-rod spool Barb Wire, $1.49

Many styles and heights. Our large Free Catalog contains fence information you should have.

COILED SPRING FENCE CO. Box 20 Winchester, Ind.

FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c a rod for 47 inch high stock fence; 28 1-2c a rod for a 60-in. heavy poultry fence. Sold direct to the farmer on **30 Days Free Trial.** Special barb wire, 80 rod spool, $1.55. Catalog free.

INTERLOCKING FENCE CO. BOX 17 MORTON, ILLINOIS

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25 Designs—All Steel

Handsome, cost less than wood, more durable. Don't buy a fence until you get our Free Catalogue and Special Prices.

We can save you money.

Kokomo Fence Machine Co. 493 North St., Kokomo, Ind.

Factors in the Cost of Living.

THE average price of commodities has risen steadily since the latter part of 1896. During this period the prices of nearly all commodities, especially food products, have steadily advanced. A few articles have fluctuated, but have had little influence in changing the general trend upward. In the ten-year period immediately preceding this there was a steady fall in prices which reached their minimum in 1896. During this period the standard of living has constantly increased making an additional burden upon people, whose incomes are fixed, or who have been unable to increase their income in proportion to the cost of living.

The high cost of living has been caused by the attempt to meet the demands of a high standard and the constantly advancing prices. The latter is the chief cause.

It is necessary to discriminate between the cost of living arising from a higher standard and that arising from high prices. The former is sometimes called "the cost of high living" and the latter "the high cost of living." The former means that we have a better and more varied life for which we pay correspondingly. We have better schools, school equipment, better churches, better homes and better furniture and better clothing. We have telephones, automobiles, electric lights, paved streets, rural mail delivery, conveniences of shop, home and market and a hundred other things that we must pay for if we live the ordinary life of civilization. It is all very well if the income keeps up with the demand. On the other hand advancing prices of nearly everything have caused humanity to hustle to keep the pace. Prices have increased about fifty points in the last ten years and are still going up. There is no immediate relief in sight, especially in food products.

The causes are many and complex. They should be divided into world causes and local causes. Chief among the former is the expansion of currency caused by the production of gold and the lessening of the purchasing power of gold. Our unit of value measure, the gold dollar, is growing smaller and it takes more of them to measure the value of a given article than formerly. Moreover, this makes an expansion of business somewhat fictitious in nature. But it causes great activity, and a dollar travels faster now than formerly—which intensifies the power of the volume of money to raise prices. Add to this the effect of credit shown by the large bank deposits half of which, in this country, are checking deposits and we have another factor in the inflation of prices.

The second great world cause is the shifting of the population from the group of producers of raw material to the group engaged in transforming, transporting and distributing products, and to the group who are attempting to satisfy the demand for multitudes of desires old and new. Add to this the increase of population in cities the relative decrease in agricultural products to feed them and we have the chief causes for the advance of world prices.

Local causes in the United States have been influenced by the relative scarcity of food products. The number of acres in agriculture has not increased as rapidly as the demand for food products. This condition is intensified by the depletion of the soil and the decline in the yield per acre. The prices of food products have been so high as to effect prices of other commodities by sympathetic action.

The imperfect and expensive machinery of getting the product to the consumer has added greatly to the cost. The difference between the price of the product at the farm and at the door of the consumer is too great. Simpler methods of distribution are needed.

The tariff has had something to do with the advance of local prices although its influence has been greatly overestimated.

Trusts, combinations, produce associations, cold storage and other business organizations that have had power to restrict production, control the output or fix prices within certain limits have helped to raise prices.

The cost of living has been advanced by extravagance, waste and the lack of economy of consumption. Waste of energy and money brings want of energy and money. High prices are not necessarily an evil in themselves. A level of high prices is as safe and sound as a level of low prices and in some respects much better. Only the income must correspond to the price. Suddenly shifting prices are detrimental to all classes and ruinous to many. If the necessary cost of living advances 50 per cent and wages and salaries but 25 in the same time distress must follow.

It is difficult to suggest positive remedies that are scientific and can be made practical, but the following are given:

1. Let the government check the decline in the purchasing power of gold by taking automatically seigniorage of the bullion that is behind the dollar, thus leaving the value of the dollar stable and allowing the weight to rise or fall in correspondence with the rise and fall of average prices.

2. Induce if possible more people to engage in the production of raw material.

3. Introduce scientific intensive agriculture in order to double the production per acre.

4. Revise the tariff by a scientific treatment which will eliminate present evils.

5. Prevent as far as is possible organizations from advancing prices arbitrarily. Place a maximum limit to prices if necessary.

6. Introduce simpler and less expensive methods of bringing the commodity to the consumer.

7. Finally, educate people in the principles and habit of true economy, thus doing away with extravagance and waste.—[Prof. F. W. Blackman before Kansas Board of Agriculture.

Keep the salt in a sheltered box in the sheep pasture. Spasmodic salting is very dangerous.

INSERSTATE FARMERS' AND BREEDERS' ASSOCIATION.

(Continued from page 28.)

portations are practically negligible, and in a few years we will be importing ourselves, unless something is done to increase the supply. This country differs from those abroad for where the laboring man there seldom eats meat, in America he has it often on his table. There is a bright future for the meat grower. The natural conditions here are the best in the world, and we have not begun to reach the possibilities of the land. As to the sections where the meats will be grown most people are beginning to look to the middle West, where the best foods can be grown on the farms where the feeding will be done. It will mean better farming and the use of much that is now being wasted, but the market will always be good if not perhaps always as high as now. The farmers are urged to remember the viewpoint of the consumer when thinking of the prices they expect.

In his investigation concerning beef production, Prof. H. R. Smith, of the Minnesota Agricultural College, has been testing rations for many years, but finds that the profits depend about equally upon the animal itself and the ration. It was found that the most profitable and cheapest producing ration was a combination of the corn plant and some legume. Experiments are not yet conclusive as the comparative merits of silage and corn fodder, though recent ones indicate the economy of the silo. In all the feeding experiments there was so much difference between individuals that Professor Smith decided to investigate the "Relation of Conformation to Gains in Beef Cattle." In a series of lantern slides the various types were thrown on the creen and the audience given an opportunity to select from the groups the steers they considered the best feeders. Later the steers in finished condition were shown in the same manner and figures showing which had been the most profitable given. In stating his conclusions Professor Smith said that often a rough steer with great capacity was a more profitable one than a more fancy one with more quality, because of the difference in cost at the beginning of the feeding period. Of the various measurements taken the size of the middle girth seemed most indicative of feeding capacity and profitable feeding qualities. In selecting steers attention should be given to depth and width of body and to a short, wide head because it is so closely associated with depth and width in the steer. These qualities go with the most profitable feeding steer.

PROVES THAT DAIRYING IS PROFITABLE.

(Continued from page 3.)

condition. During the past year he has laid five miles of four-inch soil drain under his pastures and crop fields, and now has twelve miles of drain pipes under his farm. He now owns 440 acres, but the last purchase of nearly 100 acres has not been cleared or under-drained and that work will be done during the coming season. Before he started to farming, the manure disposal proposition in Carthage was an expense to the owners of cows and horses, but as soon as enough of the farm was cleared of rocks so a wagon could operate on the ground, Colonel Phelps purchased three manure spreaders and offered to haul free of cost all the manure he could obtain in Carthage. He has kept the three wagons busy hauling manure and during the last two years has spread 8,000 loads of animal-made fertilizer on his farm, raising some of his land almost six inches above the former level. During the past season his wheat crop averaged forty bushels to the acre, and some of his alfalfa cut nine tons per acre in four cuttings. The farmers in that neighborhood have seen the value of using fertilizer, and now they are bidding against each other for the manure from the larger barns in Carthage. With his large dairy herd and the pigs he feeds, Colonel Phelps can now raise on his own farm nearly all the fertilizer he will need and he is letting the other farmers get a share of the fertilizer in town.

The dairy business in the community has also shown remarkable growth. The creamery started on June 1, 1912, and during the first month made less than 2,000 pounds of butter. At present the creamery is making 500 pounds of butter a day, with a maximum capacity of 1,200 pounds of butter per day and they are beginning to plan for enlarging the plant as several wealthy men in town are planning to establish dairy farms in the vicinity. The creamery owns an automobile truck which travels thirty miles a day, making collections of cream on a regular schedule. At present the creamery is paying twenty-seven cents per pound for butter fat. A large distributing dairy in St. Louis recently offered Colonel Phelps five cents a pound premium over the market price for his cream, to be shipped to St. Louis, knowing that the additional cost could be made up in the quality of cream they would obtain and in the advertising they could get out of handling the product of his dairy, but he is loyal to his home town and its industries and would not consider the offer.

The Kansas senate committee on live stock has introduced the bills to regulate the Kansas City Stock Yards. The bills are practically the same as those introduced in the Missouri legislature. They apply to all stock yards of the state. One bill provides for the appointment of a stock yards inspector and the necessary deputies. The inspector is to have a salary of $2,000, and his deputies are to be paid $1,800. The other bill provides that the inspector is to have charge of the weighing and inspection of all the hay, grain and other feeds sold to stockmen by the stock yards companies.

Ask your neighbor to subscribe to The Homestead.

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YOU can clear an acre or more of stumps a day. No stumps can resist the Hercules. Doubles land value—enables you to make $1200.00 on 40 acres the first year after stump, are out—and $750.00 in crops *every* year after. Get the proof. Why not

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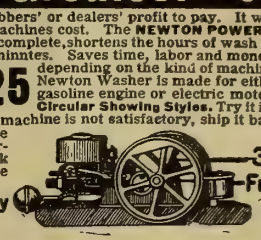

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Importers of foreign sugar, dominated by the **Sugar Trust,** seek to have the tariff on sugar **lowered or removed,** which if put into effect means that the American beet sugar industry will be completely **crushed** and the revenue-stealing trust will absolutely control the sugar situation. They will lower the price of sugar temporarily until the beet sugar industry is **annihilated,** absolutely wiped off the map—then watch the price of sugar soar—up! up!! up!!!

Read this brief paragraph from U. S. Senate Document No. 890, which tells the story in a nutshell:—

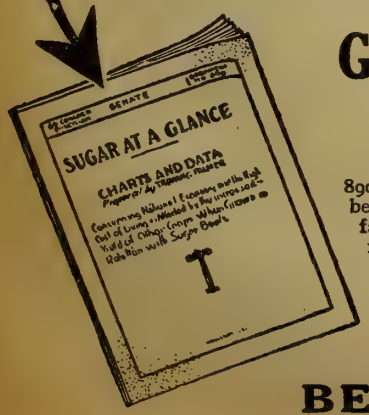
"Knowing that with the prevailing high wage rate of the United States, sugar produced in this country could not compete with the raw sugars they purchase from low wage rate countries, unless a reasonable duty were imposed upon such sugars, the American refiners of foreign raw sugar are expending large sums of money in an effort to obtain free raw sugar from foreign countries, which would destroy their only competitor, **after which they could raise the price of sugar at will.**"

This Is Important to You—Act Promptly

It is up to you to take a positive stand on this sugar tariff question—and **at once.** By prompt, energetic action **you** can help hold this great American industry for the American people. By **delay** or **neglect,** you will assist sugar monopolists to **crush** the great beet sugar industry of America, their only competition. You will enable the Trust to gain absolute control of the sugar supply, and exact heavy toll on every pound of sugar sold to **you** and to the millions of other Americans.

Do **you** stand for any such tyranny? If you **don't,** then **enter your most vigorous protest against the lowering of tariff on sugar**—and do so **at once!** Write your congressman today, explaining that you are opposed to any reduction of the tariff on sugar. Don't delay—do it now.

We appeal to you on behalf of the thousands of American farmers who grow sugar beets, the manufacturers who make beet sugar, and the thousands of American workingmen employed in sugar factories. Don't put this matter off—it's too important.



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TRUMAN G. PALMER,
Sec'y United States Beet Sugar Industry,
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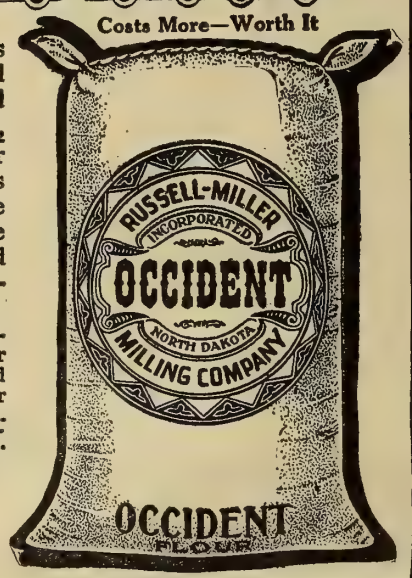

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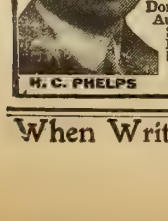
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WITH THE EDITOR.

(Continued from last week.)

Constance Baines had been Constance Povey for several years, commonplace, humdrum years they were as pictured by historian Bennett, when the horizon of life was unexpectedly enlarged for the Poveys by the advent of a baby. This baby pushed everything else on to another plane and brought a new element into the relations of the hitherto entirely united Constance and Samuel.

Samuel Povey was as utterly devoted to his child as was his mother whose thoughts were busy with her babe every waking moment of her life. Cyril was the pivot of the house, every desire of both Samuel and Constance ended somewhere in Cyril, but while the parents were agreed in desiring the best things for their child they were not always of one mind as to what the best things were.

When Cyril was still but a few months old there came a conflict of their wills. They were agreed that the child must be taught self-control from the beginning, but Constance could not bear to hear the wailing of her baby crying for his mother after he had been tucked away for the night, and Samuel would not permit the child to be pampered. A more serious situation was precipitated by the boy's naughtiness at a party when he was not yet five years old. His father decided on that occasion that it was time for him to discipline his son. "That night Constance could not sleep. As she lay darkly awake by her husband, her secret being seemed to be a-quiver with emotion. She said that Samuel was right, quite right. And then she said that the poor thing was not yet five years old. The two had to be reconciled. And they never could be reconciled. Always she would be between them to reconcile them, only to be crushed by the impact. Always she would have to bear the burden of both of them. She could not change Samuel; besides, he was right. And though Cyril was not yet five, she felt that she could not change him either."

As the years passed there were other such times; and always the mother heart in an attitude of defending her child; always the father heart feeling it must be stern for the boy's own good. No one but a close observer of boys and their development could sketch Cyril Povey as he is presented in "The Old Wives' Tale," no one but a parent could so tell the story of the marked coin which proved that Cyril had stolen money from his father's till. The morning of the discovery of this fact was one never to be forgotten. How the father and mother lived through it and how, gradually, it faded into the background of memory and their son once more became their pride and their darling one must read the story to understand.

There came a day when the lad carried off some special school honors, honors which seemed to indicate that the boy was possessed of unusual abilities. On the evening of that day husband and wife had a long talk. "The face of Constance said to her husband: 'I've always stuck up for that boy in spite of your severities and you see how right I was.' And the face of Mr. Povey said: 'You see now the brilliant success of my system. You see how my educational theories have justified themselves.'"

Not the least illuminating chapters of the story are those dealing with the relations of mother and son after the death of the father, which occurred when Cyril was about thirteen. One feels that these relations as reported are typical. A single incident will serve to illustrate.

Cyril had expressed a wish to go to the school of art after the holidays, but his father had decided against the project. The boy had apparently yielded, but shortly after his father's funeral he calmly announced that after Christmas he intended to enter the school of art. His mother

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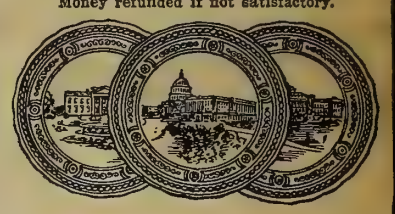

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reminded him of what his father had said and added that he must give up the idea. The boy at once began to pout and sulk; he would not listen to reason; he accused her of harshness; he gave up drawing entirely. It was war between them. After several weeks of unhappiness the mother yielded. The war was over. The boy was charming again. And the mother said to herself: "If we can be happy together only when I give way to him I must give way to him. After all perhaps it is very important that he should go to the school of art."

Children are quick to discern. Before three months Cyril Povey, not his mother, was head of the house. Fortunately the lad did not become dissipated—his tastes did not incline that way—he did become thoroughly selfish and careless of his mother's comfort and happiness. As the years passed Constance Povey was compelled to admit to herself that Cyril was not a good son. It does not seem to have occurred to Mrs. Povey that her training was in any way responsible for Cyril's defects of character, neither does the author suggest it, except it be by holding a mirror up to the family life which formed the lad's environment.

The eye sees what it brings with it the power to see, although the canvas is painted in dull browns and depressing grays. The "Old Wives' Tale" should prove a profitable study to parents.

AMONG OURSELVES.

Warm as is our welcome here "Among Ourselves" to newcomers we give an even more hearty greeting to old friends like Mrs. O. E. Osborn, who has first place upon this program:

I have been one of the silent, though appreciative, readers most of the time, though have occasionally sent a letter to the Home Department. When I first started reading this department a lady from Wisconsin, I think her name was Velma Caldwell, was editress. Some of the names of those times I remember and enjoyed reading were Mrs. Vanderhoef, Mrs. Alice Aul, Margaret Flindt, Mrs. Bertha Engle and Flora Wood. Some of these, I know, have since passed

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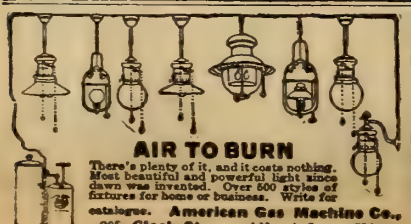

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over. There are a number of names whose writings I enjoy at present. Ninette Lowater, Eugene Secor, Mrs. Hulsers, whose picture we had recently, and a number whose names are not quite so familiar. I am glad that in these days woman's only sphere is not in the kitchen. Not that we should neglect our making of homes, and I would not go to the extreme of thinking there is any higher calling, but why not break the monotony by writing for some Home Department, working up a neighborhood club or of making your Sunday school class the very best in the school. These things are all worth while. By the way, we have a new country church that a town ought not to be ashamed to own, which we hope soon to have ready to dedicate. The women of our church not long since met to pull nails from old lath. Ten women and girls, armed with hammers, met. At noon a bonfire was made, coffee warmed and lunch served. By 3:30 o'clock the large pile had all been gone over and piled neatly for use, and we had enjoyed the day, besides doing what the men and boys were too busy to do.

Mrs. Osborn's reminiscent mood kindles pleasant memories in the hearts of other old-timers, while her interest in the new church and her plea for larger activities for women commend her to the younger women—in other words, we have all enjoyed her visit and all hope she will make another before long.

Our friend Mrs. Ferguson, of Nashua, Iowa, comes to talk to us about their water system, a subject which should be of interest to many of our circle:

We installed a waterworks system in our house which we built six years ago, and if less elaborate than in many homes we find it very convenient. The first cost has been our only expense so far, as we have not, as yet, paid out one cent for repairs. We built in one corner of our basement, which is 34x40, a cistern 8x16, using the outside wall of the basement for two sides of the cistern; the two inside walls are the same thickness as the outside, which is eighteen inches, but not as high as the outside walls, being left open about twenty inches from the ceiling, having also a window in one end to admit light when cleaning cistern. Near the top of the cistern we have an overflow pipe which discharges into the drain and about a foot from the bottom we have a faucet to draw cold water from and conveniently near is a hot water tank attached to the furnace, which makes it handy for laundry purposes. The water in winter is always boiling and supplies the first floor with hot water and the bath room on the second floor as well. Now, I hear someone say, "I should prefer to have the hot water tank heated by the kitchen stove," which, of course, has some things in favor of heating that way, as well as other things not preferable. One thing against it is the constant boiling of the water, besides its making the kitchen many degrees warmer in summer. However, we will leave it for each to do his or her own planning. Our supply tank, being in the attic, keeps water sufficiently warm for bathing, as all who have an attic know that there is no known place here below that is warmer in summer nor colder in winter. The supply tank is filled by forcing the water with a force pump. There are other ways perhaps easier, for instance, a gasoline engine or a ram, which should be installed when putting in the waterworks. We have open plumbing; that is, instead of running inside of walls they pass straight through and converge in a small toilet room off the kitchen, so that in case of accident the walls will not have to be torn up. The pipes, centering as they do in this little room, which has a seat and lavatory, but no bath, are out of sight as far as the rest of the house is concerned and are so situated that frost does not affect them in the least. The chimney, which is built from the bottom of the basement to the top of the chimney, may have something to do with the pipes never freezing, as it runs through the bath room and on one side, or directly against the chimney, is the pipe which supplied the cold water tank, while on the opposite side, similarly situated, is the pipe that feeds the hot water tank. Our bath room is in the chamber conveniently near the sleeping rooms which, I think, is as it should be, and yet, for one reason, I should prefer to have it downstairs. Then one could have the supply tank in the chamber and when raining it could be filled directly from eaves troughs and, by having an overflow trough running into the cistern, both are filled at the same time without labor. In having the tank in the attic it is above the eaves troughs and, as water has never yet been coaxed to rise above its source without assistance, that is the only reason why it is preferable to have the bath on the first floor. The drainage pool consists of an old stone well about 100 feet from the house and which is only partially covered to allow the escape of sewer gas. The four-inch iron sewer gaspipe attached to the drain instead of passing up through the roof, as in many houses, runs up by the side of the chimney to about two-thirds the height of the bath rooms, then goes into the chimney like a stovepipe. You all remember, perhaps, the old adage, "Anticipation is greater than participation." I have found by experience that there are four well-defined exceptions to that rule, which are the following: A baby, a telephone, a screened porch and a waterworks system. Try them and be convinced.

Going into detail as she does, Mrs. Ferguson makes her talk one of practical interest to those who may be considering building or putting water in the old house. A water system with sink and bath means so much to the family in both comfort and cleanliness that I wish we might hear from others and so stimulate interest and desire that the next few months would see an increased number of homes equipped with this modern luxury which is almost a necessity.

A friend who wishes to be known "Among Ourselves" as "Incognito," has some questions to propound:

I want to ask the Home Department contributors a few questions, because I

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do not know whom else to ask. Is it right for a man, a farmer in good circumstances, to hold the family purse and compel each and every member of the family to come to him for every cent? Is it right to keep several growing sons right under his thumb day and night, with never a holiday, never a vacation (even on Sundays, one might almost say), never a penny to spend except it comes out of "dad's" pocket; never a horse of their own to drive, always having to "foot it" or ride behind a clumsy pair of spavined draft horses, or else stay at home? Is it right that the daughters, grown women, must go to father and beg a nickel or a dime every time they want to buy so much as a packet of hair pins, or post a letter, or put a few cents in the Sunday collection? Or for these daughters, though doing their full share of house work, not to mention their unending labors in the family garden, the dairy barn or even the meadow at times—is it right that they can never at one time possess enough stockings, underwear and night clothes to feel that they are decently clothed, to wear hats (cheap ones, too) three years, and coats five and six, not because the family is poor, but because they do not care to beg for every penny and would rather do without? Is it fair that these young folks, living under the very shadow of the opera house, must be unable to say that they have never seen so much as one play on its stage, or one motion picture show? Or, when it happens that they have brushed up and mended their wardrobes, braved the inclemencies of the weather and the frightful state of the country roads, to the extent of walking a couple of miles to a neighboring party—is it right for father to go about the next day with a frown and an eternal lecture against the waste of time, the useless waste of energy and the fact that "them parties ain't goin' to put a cent of money in your pockets;" preferring, forsooth, that his young folks vegetate behind the kitchen stove the winter long, as he has done! Is it fair that the mother, like her children, can never have a cent of money to call her own—not even woman's portion, the "egg money"—but that John should carry the eggs to the store himself weekly and bring sugar, flour and coffee in return. Is it fair to compel Mary to ask even though she may always get it, to make her so dependent that she must perforce ask for a quarter to buy a set of cake tins or a tin dipper, when John, in his prosperity, need never think twice before marching to the store for a new ax, strap, shovel, halter, pitchfork and so on up to harness or manure spreader? Doesn't Mary earn her pin money as well as John does? Do not Mary, Jr., and John, Jr., and the rest of the boys and girls earn a right to a little spending money, a few good times, good clothes and driving horses? Then why does not Mary receive her pin money freely, without having to listen to John's kicks against her "extravagance, always beggin' for money" before she can wheedle out enough to buy herself a pair of cotton gloves? And why are not Mary, Jr., and John, Jr., and the rest allowed to live and have reasonable pleasures the same as are the children of their less prosperous neighbors?

These questions "Incognito" asks suggest a distressing state of family affairs. The washing of soiled linen in public is always an unpleasant proceeding, but sometimes public health is served thereby. With this hope "Incognito" was given place on our program. Will those who try to answer the questions make their replies as practical as possible. There must surely be some way out in a situation such as that suggested. Let us hear what it is.

It gives me real pleasure to give our old friend, Mr. A. L. Foote, place immediately following "Incognito:"

As I have been a reader of the Home Department for several years, and also a writer in several capacities, I was interested in Cousin Clara's thoughts on a wife having to beg for money from her husband, or even have him take her chicken money to buy tobacco and cigars, and I will add beer and whisky. You may call me a lawyer or a preacher or a common farmer, but I am glad I can plead "not guilty." Myself and wife have been married a little over one-third of a century, we are alone this winter the first time for thirty-two years, and I ask her every time I go to town if there is another thing she wants. And I write it down so I won't forget it. I have been asked many times who my partner was, when I have said, "We have certain things," and I have to say "my wife and children." I have many times wondered how a Christian man could keep himself steeped in tobacco, for when I promised God that I would be a radical Christian He made me give up the use of tobacco, and that was before my wife knew me. I have thought and said many times in the past year that the hardest job there is to do at the present time is to get people to do as well as they know. The best and easiest way for husband and wife to live is to be one, as God intended, for how can two walk together unless they are agreed. I think that the only right way for a family to live, whether they are rich or poor, is to all work together for the best interest of all the family and use the money as it is most needed for all the family. Also to pay for a good home. Myself and wife started poor enough, but we have raised a good-sized family and have a good farm home paid for. I worked in a good many homes as a builder of buildings for many years, and I believe it is generally the little foolish things and carelessness on the part of one or both that make the unpleasantness in homes.

It will be seen that Mr. Foote without referring to "Incognito" answers his questions indirectly, by stating underlying principles. After all, perhaps that is as good a way as any. At the same time let us hear from others.

Two of the friends come with requests both of which are made with view to summer needs rather than immediate necessities. Mrs. Emmetsbury asks me to ask where water glass is to be obtained and the method of its use in preserving eggs; "Inquirer" will speak for herself:

I enjoy the Home page very much and frequently find helpful suggestions. I would like to ask a few questions. I have been casting about in my mind to find something by which I could help out in the way of earning a little more cash than we usually get from chickens, early tomatoes and melons. We usually have a quantity of apples (early or summer ones that go to waste), also tomatoes after the early ones are sold. Would it be feasible to get a small canning outfit that one person could operate and use some of the farm products that would otherwise go to waste and make a little money at it? The fuel in this case is not in the reckoning. Can we not hear from someone who has tried something of the kind? Is the work hard to manage Of course, we have used the glass jars for our own use, but suppose we would use tin cans and hermetically seal them. If anyone has had any experience we would like to hear it, that we may know what to depend on doing.

"Inquirer's" query opens up what should prove a fruitful subject of discussion. The market for canned goods, both fruit and vegetables, is a growing one. Those who claim to know state that it pays better to can fruit and vegetables than to sell them fresh—except in the case of choice varieties which command high prices. If this be so canning ought to be a regular part of the farm industries. Is it? Do many of the friends own and operate small canneries? What does an outfit cost? How is the product disposed of? These are but a few of many points upon which we hope to receive information. And, as "Inquirer" asks, let answers come soon.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

But though fierce blow the winds through forests shrouded,
Where snows, for leafy verdure, cheerless cling,
Though seas moan wild, and skies are darkly clouded,
Within the heart that loves 'tis always spring!
There memories and hopes, fresh budding, throng,
And faith forgets that winter lingers long.

—Florence Earle Coates.

THE DIFFERENCE.

Have you ever noticed how small a disorder, how slight a dust or misplacement it takes to make a room look untidy and slovenly? If not, think about it now. Reflect upon the impression it gives you when you go into your kitchen and find the soiled spoon, the unwashed dish left there after the work of the day is done, and the place should be spotless. Don't you have an instant sensation of irritation and disappointment? The woman who has done this or who has left her stove littered with crumbs or spotted with grease, who has not brushed up the flour that has fallen beside the bag, undoubtedly thought that it made no difference, since she was going to give the room a good "ridding-up" the next day. Yet the disorder made all the difference between good and "sloppy" housekeeping. Apply the principle to the manner in which you conduct the care of your own room, your own clothing, your own sewing equipment, and see if, after all, the same truth of the advantage of keeping clean, rather than of making clean, does not run all through your homemaking.

THE WIFE.

He sees the wife, from slim, young comeliness,
With bearing of his children and their care
Grow stooped and withered, and the shining hair,
That was his pride, grow thin and lusterless.
Day after day, with wordless, pained distress,
He strives to ease the load her shoulders bear,
Lifting a burden here, a burden there;
Or offering some clumsy rare caress.
But, ah! her girl face never was so fair,
And eyes and lips that answered his desire
Are dimmed with sacred meaning to him now.
To his rapt sight an angel might aspire
To claim the stature of her soul, or wear
The halo that surrounds her mother brow.

—Anna Spencer Twitchell in Delineator.

A SMILE.

One day the children in a New York school were given a lesson about the cow. The next day a cocoanut was brought in for their inspection.

When the big nut came to Rosie Gold-

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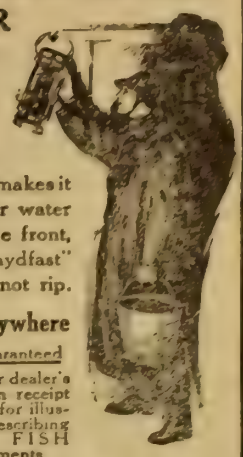

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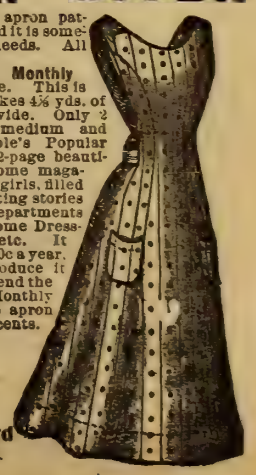

PEOPLE'S POPULAR MONTHLY,
211 Grand & 3rd
Des Moines, Ia.

berg she happened to shake it and heard something lapping inside.

"What's that?" she asked.

"That's milk."

Rosie took another look at the nut and asked:

"Did the cow lay it?"

FOR THE COOK.

Beef Loaf.—This can be sliced and sold as it is sold at the delicatessen. This is excellent and economical, as this recipe makes a large loaf. One and one-half pounds of round steak (ground), one-half pound of pork steak (ground), one-half teaspoonful of salt, one-half teaspoonful of sage, one-half saltspoonful of pepper, one tablespoonful of onion juice. Beat one egg; add one-half cupful of sweet milk and one cupful of bread crumbs. To this add the meat and seasoning. Knead and make into one loaf. Butter the pan and pour one-half of a cupful of milk in the pan; press the loaf down firmly and bake one and one-quarter hours in a medium oven.

Parsnip Balls.—Boil in salted water till very tender; mash and season with butter, pepper and salt; add a little flour and two well-beaten eggs. Form into small balls and fry in hot lard.

Peppermints.—Put a pound of white sugar and one and one-half teaspoonfuls of cream of tartar in a teacupful of cold water. Stir until dissolved, then boil until a little of it, cooled in water, can be rolled into a ball with the fingers. Remove from the fire, allow it to cool a little, and beat with a spoon until it turns white. Add three drops of oil of peppermint, and mix well. If it hardens too quickly while beaten, set the bowl in a tin of boiling water. Make it into balls with the hands.

Corn with Poached Eggs.—Open a tin of corn and strain off the liquid, and then simmer the corn until tender in three tablespoonfuls of milk, one-half ounce of butter, pepper and salt. It will take about ten minutes. Then spread it on a hot fire-proof dish, arrange as many poached eggs as are required neatly on it, and serve very hot.

Ask your neighbor to subscribe for The Homestead.

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

To do to others as I would
That they should do to me
Will make me honest, kind and good,
As children ought to be.
—Selected by Fairy Love.

TO LITTLE BOY BLUE.

Dear little Boy Blue,
I'm writing to you
From my home way out on the farm.
The school bells are ringing,
The peewees are singing,
And the sun's shining brightly and warm.

Have comfort, dear lad,
In your sorrow so sad.
Father has gone to his dear home above;
For his dear blessed life
Was finished on earth;
Now his memory will guide you with love.

Dear little Boy Blue,
Be brave and be true;
Father's precepts remember alway.
Then in that home there
He has gone to prepare,
You will surely go see him some day.
—R. S., Ill.

ROLL OF HONOR.

Adelheid, Betty Elizabeth, Blonde, Burdick, Carol, Chickapee, Columbine, Dagmar, Dalben, Elithe, Fairy Queen, Farmer's Son, Fink, Flora, Francesca, Franklin, Gabriella, Geda, Gem, Giggles, Golden Sunlight, Happy Farmer Girl, Hayseed, Honey Girl, Inacha, Indiana Lass, Iowa Beauty, Irish Vera, Jewel, Job Lot, Just Freddie, Katheryn, Lady Kate, Lazy Joe, Little Beauty, Little Missy, Lotus Blossom, Loza, Lucille, Moonflower, Mother's Helper, Nedevo, Queen Eleanor, Red, White and Blue, R. E. G., Retha, Rosetta, School Girl, Sharlot, Silvery Wings, Sissy, Sly Fox, Smiles, Spit Fire, Sunflower, Susan, Thalia, Verno, Watcher, Wee Lou, Wisconsin Girl.

Milkmaid, Rosy Plum and Ted get their pansy badges, and Wilna her silver badge this week. If Wilna will send her photo we will be glad to publish it, as she is the fourth "silver badger."

The following do not get on the Roll of Honor: Charmion, Mishy, Red Ruby, Tilda Engen, who sent recipes. Jessie, Junebug, Rosebud, who gave no address. (By the way, we get a letter from a new "Rosebud" every other day. Try to choose a name you haven't heard or seen in this department.) Ellenora Hoene, Henrietta, Old Owl, Trixie, riddles (not original). Badger Boy, Evangeline, Leona Evans, Wave, selections. Leona Evans also wrote on both sides of her paper. Now, young folks, try to avoid these errors if you wish to be put on the Roll of Honor.

To join us, simply write a good letter. Verses, original puzzles, stories or handiwork of any kind, if it is your own work, will be accepted. Everyone under twenty-one is welcome.

THE INTERESTING PUZZLES.

(Published January 30th.)

There were two answers so nearly alike, and both so good, that Aunt Mary has decided to give two prizes instead of one. These are the winners:

"Ayfa," Chatfield, Minn., and Ethel Heard, Melvin, Iowa.

There were in all 112 solvers. Quite a number fell down on Reykjavik, but very many sent perfect and excellent lists. The number of vegetables found, and the correct spelling of every word, counted in making the prize awards. Following are the names of the other solvers:

Agnes Koep, Alice Draye, Alice Kilmer, Alta Shetler, Amelia Jensen, Ann, Anna Metzger, Arthur, Attie Johnson, Bernice Brown, Bertha Schryver, Bessie Hartling, Bessie Snider, Betsey Bouncer, Blue-eyed Darling, Buckeye Girl, Catharine Fetler, Cecil Deutsch, Cecile, Charlotte Kennig, Clara Dawson, Clark Gossich, Cleda Rayburn, Daddy's Girl, Edna Cape, Edwin Drescher, Elithe, Eliza Reynolds, Elna Rosenken, Elsie Schauper, Emma Eilers, Ernest Sanders, Ethel Heacock, Fern Boettner, Ferne Matney, Fernwood, Florence Van Horn, Flotis, Frieda Lorfeld, Frizzle-top, George Montgomery, George Willey, Georgia Cox, Gertrude Driscoll, Gothenburg Neb, Grace Barber, Helen Finney, Henrika, Ida Birky, Ida Yoder, Irene Bekemeier, Irene Rehberg, James Searle, Jennie Buffenbarger, Joe Kreisel, John Pekarske, Josephine Omnink, Joseph McMahon, Lazy Joe, Leah Johnson, Lee L. Lenth, Lena Johnson, Leona Boeke, Leon Truxaw, Lily, Lizzie Schneider, Lola Kessler, Lola Pharaoh, Loza, Luella Morris, Lula, Mabel Thompson, Mabel Westbrook, Malta Ohio, Manasses Bontregor, Marie Eckerman, Maude, Maybell Groth, Meadow Lark, Mildred Coder, Myron Greene, Naomi Bradshaw, Napoleon, Nebraska Boy, Negah, Nellie Gray, Nina Kincheloe, Oscar Swanson, Otto Marek, Pauline Thomas, Pearl Chase, Phyllis Johnson, Prairie Gal, Queen Inez, Rebecca, Red Red Rose, Sadie Estes, Samuel Goodsell, Sea Foam, Signa, Mitts, Theodore Smeby, Tom Rosson, Vera Robinson, Verneal, Victoria Ill, Virginia Kirchner, Willamette, Winifred Hughes, Woodland Maidie, Zerlina.

ANSWERS TO THREE GOOD PUZZLES.

(Published February 20th.)

1. Nellie, Mary, Milicent, Dorothy, Rosalie, Evangeline, Ida, Marjorie; the letters taken out spell Nathalia.

2. St. Paul, Pierre, Jefferson City, Little Rock, Columbus, Jackson, Bismarck, Concord, Raleigh, Lincoln.

3. Genoa, Eliot, Orange, Reynard, Ganges, Egypt, Wales, Austin, Seward, Hale, Indiana, New Orleans, Ginger, Transvaal, Ottawa, Norway; initials spell George Washington; numbered letters spell surveyor, general, president, writer, hero.

CHILDREN IN THE FIELDS.

There were six children in the Brown family. The oldest of them was Margaret; then came Robert, Esther, Ruby, Charlie and Roslyn. It was early in the summer, the flowers were in bloom, and the trees in blossom, when one sunshiny morning the children went out in the fields to spend the day. They took their lunch with them and some baskets to gather flowers in. They went near a pond. They left their lunch by a tree until they should be ready to eat it. They went to the field barefooted. They went wading in the pond. After lunch they gathered some flowers. They got a great many spring beauties, violets and buttercups and other wild flowers. They found some wild moss and covered a stump with moss and wild ferns and flowers. Each one of the children had to get up on this stump and make a speech. They called themselves "The Stump Speakers' Association." Little Roslyn made the first speech:

Bid peepo, il peepo,
An peepo of all tide:
We dad a tee oo he' aday.
Weco ow eccatide.

This sounds like a foreign language to you, but Roslyn was only two and a half and this is what he meant:

Big people, little people,
And people of all sizes:
We're glad to see you here today.
Welcome to our exercises.

Charlie was five, and he felt ever so much older than baby Roslyn, so he stood up and spoke in a very manly voice:

Here I 'tand, all wagged and dirty;
If anyone kitheth me, I'll wun like a turkey.

Of course, after this challege, Margaret and Esther chased him and tried to "kith" him, and he did "wrun like a turkey." Next came Ruby, age 8. She had been going to school, and at school they learned to "speak pieces." This was hers:

By the shores of Gitche Gumee,
By the shining Big Sea Water,
Stood the wigwam of Nokomis—
I can't remember the rest.

They all clapped their hands, after each "speech," so that all felt satisfied they had done well. Esther tried next:

A friend in need
Is a friend indeed.

But the others told her that was too short, so she tried again:

True happiness, if understood,
Consists alone in doing good.

This was as bad as before, and as no applause was forthcoming she rattled off:

Jack and Jill
Went up the hill
To fetch a pail of water;
Jack fell down
And broke his crown,
And Jill came tumbling after.

To emphasize her remarks, Esther fell off the stump and they certainly clapped then. Now Master Robert, aged 13, took the stump: "Ladies and gentlemen, we are gathered here today for a day of pleasure and profit. When we look at the lovely flowers, and the—er—lovely trees, and—er—when we eat by the gurgling brook (only it's a pond, you see, but that doesn't sound so well)—when we eat—hm—(I said that before). Guess I'll quit." This was quite satisfactory, and the orator wiped the sweat from his brow proudly. "I can't make up a speech like Robert," said Margaret, as she scrambled to the post of honor, "but I will recite a little poem I made up the other day when I was churning:"

Splash! Splash! Splutter!
Hear me making butter!

How funny it would seem
If butter looked like cream!

Round and round I turn
The handle of this churn

Sputter! Splutter! Splash!
Don't I cut a dash?

Butter's good to eat,
So is bread and meat.

If we had no cow,
I'd not be churning now.

Splash! Splash! Splutter!
See me making butter!

This brought down the house, so to speak, and ended the program for the day. The sun was getting low, so they started home, having enjoyed every minute of this happy day in the fields.—By Ceda and Cara.

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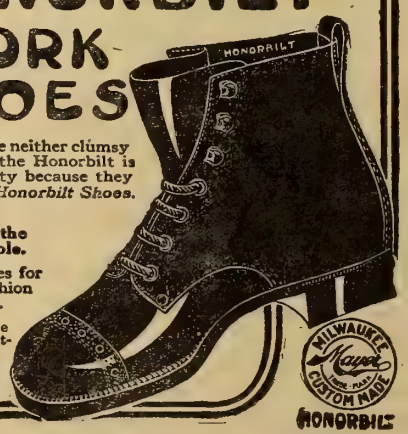

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PEOPLE'S POPULAR MONTHLY
Dept. 2, Des Moines, Iowa

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair — Tennyson

The International Sunday School Lesson

FIRST QUARTER LESSON X GEN XVIV 12-17 23-29. March 9, 1913

THE DESTRUCTIION OF SODOM: TEMPERANCE LESSON—THE STORY.

While Abraham, with courtly hospitality and grace, was going a pace with his department guests, the Lord revealed the curse to him. Excess of joy over the blessing was tempered by grief over the impending curse, and vice versa. It was natural God should tell Abraham of what would befall Sodom. Proximity would suggest it. Then, too, the patriarch had fought for the Sodomites, and his nephew dwelt among them. But this vitally important information would never have been given to any human being of less exalted character than the patriarch possessed. This is the plain inference from the words with which the revelation is prefaced. The very fact that he was worthy to be chosen the progenitor of the favored race signified that he was worthy to be the Lord's confidant. The greater included the less. "Why, indeed, should the thing be hidden?" By this very act of confidence the Lord lifted Abraham, as he intended to, from the plane of servitude to that of friendship. The servant knoweth not what his lord doeth, but the friend does. As the Lord had assumed a human form, so he also accommodated himself to the fashion of human speech,

and described himself as on the way to make a personal investigation of the wickedness of Sodom—to see whether the reality of it was as great as the fame of it—and thus qualify himself to pass judicial sentence; all of which was of the nature of anthropomorphism. As the angel trio started on their dread mission, Abraham's generous, compassionate heart prompted him to throw himself between the Lord and the doomed cities. All unconsciously he makes himself a striking type of the great Intercessor of the race. He prays for sinners. Their awful fate touched his heart to pity. He had once gone to battle for them; now he goes to his knees in their behalf. He is a daysman, a mediator. With consummate skill he handles their desperate case. "Shall this be a wholesale slaughter? Will there not be a discrimination between the good and the bad? Might not the sparing of the bad on account of the presence of the good among them have a striking, exemplary influence? If so, what shall be the ratio between the good and the bad? Might it not be as fifty to the whole population? Or (with extreme deprecation of himself as an intercessor) forty-five, or forty, or thirty, or twenty, or ten?" Abraham displayed no bargaining temper, striving only to get the best possible terms, but was climbing the ladder of hope and faith, with each promise taking courage to ask for more. When he felt that he had reached the uttermost verge of Divine forbearance, then only he rested his case, and returned unto his place with mingled emotions—joy at the blessing that should soon be his; grief at the curse that should next day fall upon the cities of the Plain.

The Teacher's Lantern.

The value to the world of the good people who are in it here has a conspicuous illustration. They are the salt that saves it. There are things that God might do to the world which he does not do because of the presence of his saints. These are ever increasing in number, so the world grows proportionately safer. Never again will the poverty of the world in righteous men be so as in the case of Sodom. But Sodom and its awful doom will obtrude itself. The physical means of destruction were as natural as those of Pompeii. The traveler who has stuck his staff into a fissure of Vesuvius and taken it out aflame, has no trouble about that fiery eruption that destroyed the cities of the Plain. The region was volcanic, bituminous, saline. Even Lot's wife suddenly converted into a pillar of salt does not trouble one who has laid his hand on those human pillars—the petrified remains of the unfortunate victims of the Vesuvian eruption of A. D. 70. No connection can be traced, however, between the form of their wickedness and the form of their punishment. The cities were not depopulated by internecine strife, were not enervated by vice so as to become the easy prey to enemies; they were not consumed by the hideous diseases that would naturally follow their nameless sins. This may serve as a stand-off to the iterated affirmation of our day that the only punishment is the physical suffering naturally entailed. God burned the Sodomites with literal fire. Just and merciful was he, too, when he did it. "They were not unadmonished," Bishop Hall says. "If they had been warned by the sword, they had escaped the fire." Their cup was full. Their destruction was only an acceleration of the inevitable. While it shortened their own remediless misery, it was a startling object lesson to the race. Its exemplary power is incalculable. Millions may have been saved by the destruction of hundreds who had no further claim upon the Lord's forbearance. The modern fascination for city life in a city, even if it is only Zoar! That Banquo's ghost, the city problem, will "up" in this lesson. Within the lifetime of some readers the population of the cities of this country will equal its entire present population, and De Tocqueville affirmed that the cities are a real danger threatening the republic.

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5957 Lady's Waist.—For the woman who desires a plain, practical skirt model the one here given is especially appealing. The design is a two-piece one with the closing at the left side. It can be made with Empire or regulation waist line and has plaits at the bottom at each side which make for grace and convenience in walking.

The pattern, No. 5957, is cut in sizes 22 to 30 inches waist measure. Medium size will require 2⅝ yards of 4-inch material. Price of pattern, ten cents.

5997 Lady's Dress.—Here is a nice dress that is quite easy to make and is stylish and serviceable as well. The garment closes at the back and can be made with long or short sleeves. There is an applied yoke, which is the chief feature, and the skirt is a six-gored design. Serge or linen can be used to make the dress.

The pattern,, No. 5997, is cut in sizes 32 to 42 inches bust measure. Medium size will require 5¼ yards of 44-inch material. Price of pattern, ten cents.

6015 Lady's Skirt.—This skirt is made with three-piece upper part and is an excellent design for costume development. Any of the popular costume or suiting fabrics may be employed in following the design.

The pattern, No. 6015, is cut in sizes 22 to 30 inches waist measure. Medium size will require 3¼ yards of 36-inch material or 3 yards of goods 44 inches wide. Width of lower edge is 2⅜ yards. Price of pattern, ten cents.

6094 Boy's Russian Suit.—A clever little Russian suit for the small boy is offered in this design. The blouse has removable shield and a pretty sailor collar which extends well down at the front. This is fashioned of contrasting material. Linen, pique, madras or serge may be used to develop this design.

The pattern, No. C094, is cut in sizes 2, 4 and 6 years. Medium size will require 2⅜ yards of 36-inch material and ½ yard of 27-inch contrasting goods. Price of pattern, ten cents.

6029 Lady's Waist.—This waist has the fastening at the back and a feature of the garment is that the back peplum and collar are in one. The collar is in one. The collar is trimmed with contrasting material. The neck has a frill of edging and the bottom of the long sleeves is likewise finished with a trimming of edging. Linen, madras or silk can be used for this waist.

The pattern, No. 6029, is cut in sizes 34 to 42 inches bust measure. Medium size will require 2⅜ yards of 36-inch material and ½ yard of 27-inch contrasting goods. Price of pattern, ten cents.

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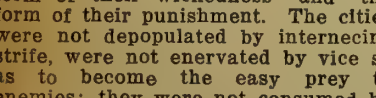

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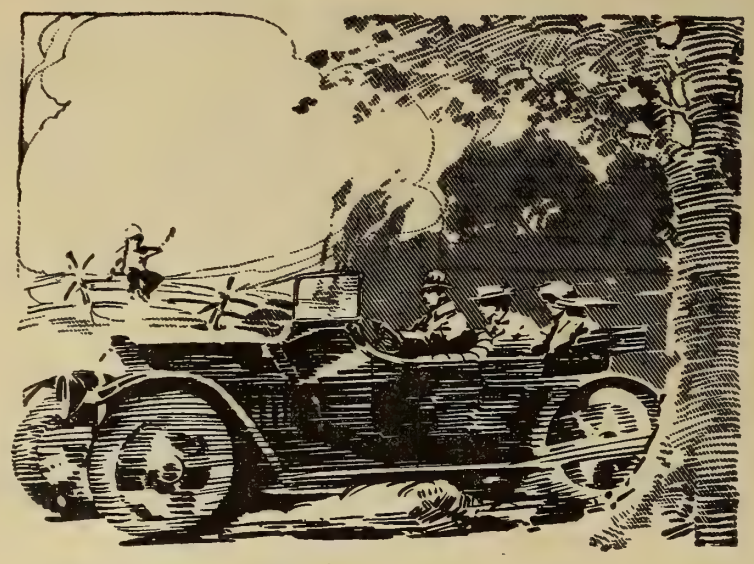

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An Advanced Registry for Swine.

By J. H. Murphy.

AS YET the various swine breed associations have made no attempt to establish an advanced registry system for their breed, but the time will doubtless come when these organizations will add to their herd book a special department for the recognition of meritorious animals. The success which the advanced registry has gained among the dairy breeds leads one to predict that its success would be assured among the swine breeds if carried on along the same lines.

What an advanced registry might be for any breed of live stock, can best be understood by a brief review of the essentials of the advanced registry system of the dairy breeds. This system is entirely an American idea and was first introduced by the Holstein-Friesian Association in 1885. Although established at this early date it did not progress, and become prominent for more than ten years because of the fact that no simple rules for admission to this department of the herd book could be made. However, after the Babcock test came into general use, butter fat production was made the basis for admission to advanced registry, and although the amounts of fat required, and the length of test varies among the different associations, yet in all breeds admission to advanced registry is on the basis of butter fat production. Before any animal can be tested for admission to advanced registry, however, it must be recorded in the herd book of that breed, that is, it must be a pure-bred, pedigreed animal. Admission to the advanced registry of the Holstein-Friesian Association is as follows: A cow two years old must make an official record of not less than 7.2 pounds of butter fat in seven consecutive days, one three years of age must make 8.8 pounds of butter fat, at four years of age 10.4 pounds of butter fat, and at five years or maturity twelve pounds of butter fat. Bulls are admitted as soon as four of their daughters have been admitted to advanced registry. The other dairy breeds require semi-official yearly records of from 250 to 360 pounds of butter fat. Based on these essentials the advanced registry department of the herd book of the various breeds has increased in prominence and importance until today it is the best advertising medium possible for the animals in it. By this method the meritorious animals are separated from the scrub pure bred and a purchaser knows immediately whether or not he is buying a producer, if he is aware of her ability to enter the advanced registry.

The scheme followed in connection with the advanced registry of dairy cattle offers many valuable suggestions for the application of a like plan in improving swine breeding. In the case of swine, however, instead of basing the requirements on performance entirely, which is more difficult to determine than in the case of dairy cattle, as much if not more importance should be placed on individuality. The breeds of lard hogs must fulfil the same market requirements, therefore, the standard of excellence for each breed should differ only in the minor points of breed detail, while the performance requirements for each might be the same. It would be necessary for each breed association to take up the matter at their annual meeting, and to formulate requirements which in their judgment will do the breed the greatest good. After the requirements of performance and individuality had been standardized it would certainly be necessary to have a competent and impartial man, who was a recognized judge of the breed to inspect and pass on all the candidates for advanced registry. Reproduction being an important factor in successful swine raising, prolificacy should be one of the prime requisites of performance. The requirements should also be such as to encourage to the greatest extent the production of strong, vigorous, disease-resisting animals.

Prof. J. G. Fuller, head of the swine department of the University of Wisconsin, was the first advocate of an Advanced Registry for hogs, and is responsible for the present agitation to standardize performance and individuality of the various breeds. Recently in discussing the matter Professor Fuller suggested the following requirements as a standard on which the various breed associations of lard hogs might establish an advanced registry for pure-bred animals.

1. Sows must be from a litter of six living pigs and have farrowed and raised to weaning a litter of eight.
2. Males must be from litters of six living pigs and have sired eight or more living pigs in 70 per cent of the litters in herds of ten or more farrowing sows.
3. All animals must fulfil the weight requirements of the score card, including breed characteristics, and score not less than 93 per cent.

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General appearance	6
Size	5
(Sow 1 year, 300 pounds.) (Sow 2 years, 375 pounds.) (Boar 1 year, 325 pounds.) (Boar 2 years, 475 pounds.)	
Quality and condition	5
Style	3
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Snout	3
Face	2
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BODY.	
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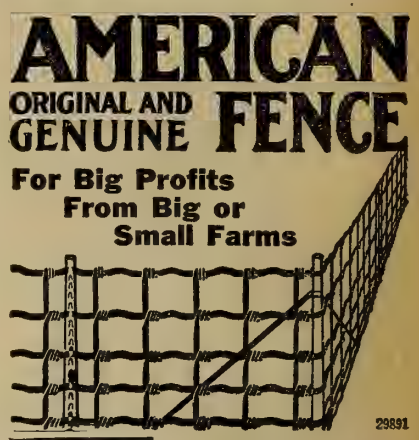

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The establishment of an advanced registry based on conformation, prolificacy, health and vigor could best be carried out, and perfected by the breed registry associations of the breeds working in co-operation with the various agricultural colleges. Qualified representatives could be sent out by the colleges to inspect the candidates and report their findings to the breed association officers where they could be compiled for publication. This is the plan which has proven so successful for years with the dairy cattle association, and which has given entire satisfaction. It has been suggested that the advanced registry be published in connection with the annual herd book, and would be of great value both to the breed, and to the breeders. Illustrations and descriptions of the more noted animals could also be entered, and a part of the publication might profitably be devoted to records of state fair, and national show yard winners.

Many advantages would be derived from the operation of the system described. Our breeds of lard hogs have not yet attained their highest perfection, and there is still much more room for improvement on which our breeders might exert their ingenuity. There is still much opportunity for perfecting the type and raising the standards of excellence. At the present time the Poland China as a breed, it is thought, show too much refinement, and would be much benefited by more scale and strength of bone. The type of head needs to be perfected, for a well-shaped head on a pure-bred Poland China is seldom seen at the present time. The prolificacy of this breed also needs much improvement, and its popularity would be assured if breeders were certain of good-sized litters. The Duroc Jersey would be improved by greater uniformity of conformation and color.

The quality of this breed, which means clean, strong bones, mellow skin, and fine coat of hair could also be improved upon. The Chester White would be benefited if bred for better hams, a smoother finish, and elimination of the curly coat so often seen in this breed. Many of the Berkshires are high on the legs, narrow in body and light in the rear. Irregularity in color markings among Berkshires is also very common.

The advanced registry, however, should do more than perfect the type and fix the most desirable features in a breed. It should assure the permanency and transmission of the most important characteristics—prolificacy, type, disease resistance and vigor. Breeders who followed these ideals would be stimulated to make a more careful selection of breeding stock and thus eliminate the scrub pure bred from service. An animal to sell well as a breeder would have to be more than a pure bred, it would have to be a descendant of advanced registry stock and if not already in advanced registry, it would have to possess such other attributes as would enable the purchaser in time to enter it in advanced registry.

SOLUTION FOR TANNING.

To the Editor of The Homestead:

Dissolve together two pounds of chaponica, one-half pound of alum and one-half pound of salt using water enough to cover the hide. If hide has been folded to get it into the vat put sticks between so that it does not come together. It requires about six weeks to tan a cowhide and one week to ten days to tan a sheep or dog hide. When the color has penetrated the hide, which may be determined by cutting the edge, it is ready to dress. Rinse thoroughly in clear water, wringing as dry as possible after which it should be stretched well and given a thin coat of neat's-foot oil on the flesh side of the hide. After hanging in the shade until dry the hide is ready for use.

To make a good fleshing bench secure a log ten or twelve inches in diameter, split it and use one half. Bore two holes with one and one half or two inch auger almost through the log, about twelve inches from big end. Into these should be inserted the legs and the other end will rest on the ground. The round side should be up and the top end should come to the waist band. Cut the heads off of about six eightpenny nails and drive them into the log about one inch apart and one inch below the surface leaving the end exposed for about one-quarter of an inch. File these so that they will hold the hide, but not sharp enough to cut it. These nails will hold the hide while you are fleshing and taking the hair off. Use an apron and let a little of the hide hang over the end of bench, push your body against it and work your knife down.

To make a fleshing knife take an old spokeshave and straighten the handles out, or take a thick-back corn knife and make a handle on the other end. Use the back to take off hair and the sharp side to take off the flesh, but the knife should not be very sharp.

George I. Phillips.

Appanoose county, Iowa.

The Missouri house engrossed bills creating two new state departments. One bill establishes a state board of veterinarians of three members to examine all veterinarians in the state and issue licenses. The governor is given appointment of two members of the board and the state veterinarian is the third. The other bill creates the state reclamation department, in charge of a commission who is to receive a salary of $3,000 a year. He is to take charge of the flood protection, swamp land and reclamation work in the state.

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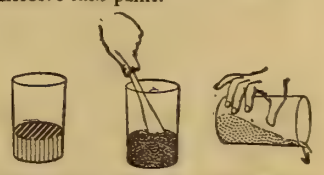

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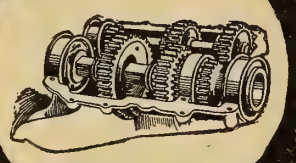

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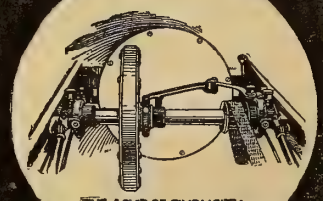

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NEWS OF THE SALE RING

McCray's Hereford Sale.

One of the most successful sales of cattle of any of the beef breeds that has ever been held in the United States was conducted at Kentland, Ind., February 28th, by Warren T. McCray, when seventy-six head of Herefords sold for $40,000, an average of $525, a record, numbers considered. It was a success in every way deserved by the gentleman making the sale. Buyers were on hand from every section of the country and from the Canadian Northwest, and they showed their appreciation of the high-class offering by prompt and liberal bidding. Mr. McCray has achieved an enviable reputation in the cattle industry. He has brought to bear upon that business the same high talents that have made him a success in the business world, and has built up at Orchard Lake Farm what is one of the best herds of Herefords in the country. The seventy-six head that he selected for the sale were an outstanding lot, bred along the most attractive lines, and Manager McHendry placed them in the ring fit to the minute. The result of the sale was a striking demonstration of the urgent demand for good cattle, and a remarkable exhibition of the value of a great sire. Perfection Fairfax, the bull at the head of Mr. McCray's herd, has not only won championship honors in all the big shows, but he has easily demonstrated himself to be the greatest present-day sire of the breed, his sons and daughters having been winners and champions all down the line for the past few years. The blood of this bull was in demand and the fact that it predominated in the majority of the offering was a great factor in the success of the sale. Ten of his cows sold for $10,105, an average of $1,010, and six of his daughters averaged $492, or an average of $817 on sixteen of his get, while the cows bred to him were in strong demand. The top of the sale was $2,500, which figure was reached twice. J. P. Cudahy, Kansas City, Mo., paid that price for the two-year-old son of Perfection Fairfax, Crusader Fairfax. This bull was not cataloged, but several of those present asked that he be offered, and he fell to the bid of Mr. Cudahy. Thompson Bros., West Point, Neb., paid $2,500 for the yearling bull, Duke Real by Beau Real, dam Lady Fairfax 9th by Perfection Fairfax. This youngster is little short of sensational. He was a winner all along the line last fall and both Mr. McCray and Manager McHendry consider him one of the greatest prospects ever bred at Orchard Lake Farm. Cyrus A. Tow, the progressive Hereford breeder at Norway, Iowa, secured one of the best bulls that ever went through a sale ring in Byron Fairfax, a three year old by Perfection Fairfax, and a show and breeding proposition of the highest class. Mr. Tow paid $2,450 and secured his bull at a conservative figure. The two year old, Russell Fairfax by Perfection Fairfax, went to Dr. J. E. Logan, Kansas City, Mo., at $1,650, and James J. Moffat, Carroll, Manitoba, paid $1,575, for the three year old, Perfect Fairfax by Perfection Fairfax, out of a dam by the champion, Dale, making him a double-bred Dale. The bull demand was the strongest seen at a sale in the middle West for years, twenty-seven head selling for the excellent average of $740, with the demand unsupplied. The top for females was $1,100, paid by J. A. Chapman, Brandon, Manitoba, for the four-year-old show and breeding cow, Gay Lass 5th by Prime Lad 16th, and at $1,025 Simon Downie & Son, Carstairs, Alberta, secured the two-year-old heifer, Sally, first at the 1912 International and bred to Perfection Fairfax. The result of this sale should be an inspiration not only to the Hereford breeders, but to all the beef cattle adherents, as it certainly shows that the demand is here, and is an acute one, and that the proper kind of cattle can safely be submitted to the appraisal of the public. Mr. McCray is to be congratulated upon the success of the sale, but it was a success to which he is justly entitled. The Hereford has had no more loyal adherent than Mr. McCray and none that has shown his faith by his works any more than he has. Much credit for the success of the sale is due to Manager James McHendry. The cattle were in prime condition and showed evidence of the work of Mr. McHendry's master hand. Every detail was carefully looked after and there was no hitch from start to finish. Col. Fred Reppert sold the cattle and did a most excellent day's work, the entire offering being disposed of in about three hours. He was assisted in the ring by Colonels Huxley and Igleheart. The following is a list of the sales in detail:

FEMALES.

Gay Lass 5th, calved 1909; J. A. Chapman, Brandon, Manitoba	$1,100
Sally, calved 1910; Simon Downie & Son, Carstairs, Alberta	1,025
Harris Princess 64th, calved 1907, and b. c.; J. V. Hill, Roundhead, Ohio	475
Madam Donald, calved 1909; Sal-Tone Stock Farm, Greensburg, Ind.	410
Fleeta Fairfax, calved 1912; L. O. Clifford, Oshawa, Ontario	550
Jemima, calved 1908, and c. c.; K. H. Zwick, Pyramid, Colo	445
Cleo Fairfax, calved 1911; A. L. Weston, Golden, Colo	530
Miss Armour Fairfax, calved 1912; J. A. Chapman	775
Donald Lass, calved 1910; J. V. Hill	450
Miss Perfect Donald, calved 1910; J. J. Barr, Brookston, Ill	450
Frances Brummel, calved 1910; O. Harris, Harris, Mo	500
Pretty Lass 2d, calved 1910; Sal-Tone Stock Farm	410
Miss Rupert 2d, calved 1908; J. J. Barr	500
Miss Dolly Dale 2d, calved 1910; J. Hill	760
Primrose Fairfax, calved 1911; Simon Downie & Son	700
Columbia 13th, calved 1904, and c. c.; K. H. Zwick	340
Lady Marian 2d, calved 1908; J. J. Barr	325
Elizabeth, calved 1911; E. E. Barton, Peotone, Ill	175
Dolly Albany, calved 1909; J. J. Barr	380
Beauty British, calved 1910; K. H. Zwick	295
Celia Fairfax, calved 1908; S. W. Tilley, Irving, Kan	550
Donald Lass 13th, calved 1911; SalTone Stock Farm	210
Mildred, calved 1910; O. H. Nelson, Amarillo, Texas	325
Miss Garfield, calved 1909; Loyal Order of Moose, Aurora, Ill	300
Dolly Lass, calved 1910; O. H. Nelson	350
Princess 33d, calved 1911; J. P. Cudahy, Kansas City, Mo	415
Princess Fairfax, calved 1911; K. H. Zwick	280
Pretty Lady, calved 1909, and b. c.; Cyrus A. Tow, Norway, Iowa	610
Miss Mapleton, calved 1907; L. C. Brydenbaugh, Kenton, Ohio	400
Lorine Lass, calved 1911; J. A. Shade, Kingsley, Iowa	205
Belle Donald 109th, calved 1906; Smith & Wilson, Decatur, Ind	560
Donna Fairfax, calved 1911; J. J. Barr	270
May Blossom 2d, calved 1909; Henry Bidwell, Mt. Victory, O	220
Mandy, calved 1906, and c. c.; J. A. Shade	325
Onaway Belle 4th, calved 1908, and c. c.; J. V. Hill	380
Lady Wilton, calved 1910, and b. c.; R. W. Christy, Wood Lake, Minn.	450
Lady Coral 2d, calved 1906; J. V. Hill	300
Onaway Queen, calved 1908; S. R. Fugate, Winamac, Ind	300
Grove's Maid, calved 1908, and c. c.; O. H. Nelson	400
Lady Spot 6th, calved 1907, and b. c.; J. A. Shade	425
Annette 2d, calved 1909; Wm. George, Aurora, Ill	230
Improver's Lady 2d, calved 1904, and b. c.; Press Postle, Belle Center, Ohio	400
Onaway Belle 1st, calved 1906; J. L. Priddy, Warren, Ind	235
Donald Lass 16th, calved 1911; J. L. Priddy	200
Adelaide, calved 1907; Jerome Franklin, Brook, Ind	235
Onaway Belle 3d, calved 1907; Loyal Order of Moose	275
Pea Blossom 2d, calved 1909; Loyal Order of Moose	250
Miss Jannette, calved 1908; Loyal Order of Moose	275
Ellen Armour, calved 1905; J. L. Priddy	360

BULLS.

Duke Real, calved 1912; Thompson Bros., West Point, Neb	2,500
Crusader Fairfax, calved 1911; J. P. Cudahy	2,500
Byron Fairfax, calved 1910; Cyrus A. Tow	2,450
Russell Fairfax, calved 1911; Dr. J. E. Logan, Kansas City, Mo	1,650
Perfect Fairfax, calved 1909; Jas. I. Moffat, Carroll, Manitoba	1,575
Adonis Lad, calved 1911; Conrad Kohrs, Helena, Mont	630
Albany Fairfax, calved 1912; Chas. Adams, Dickinson, N. D	850
Governor Hadley, calved 1912; W. J. Davis & Son, Jackson, Miss	400
Donald Lad 20th, calved 1911; Conrad Kohrs	460
Star Grove 23d, calved 1909; Leroy Henson, Williamsburg, Iowa	300
Perfection 6th, calved 1910; Conrad Kohrs	420
Swordsman 3d, calved 1909; Wm. Henn, Denver, Colo	225
Kenneth Real, calved 1912; Conrad Kohrs	605
Wilton Fairfax, calved 1911; William George	420
Realfax, calved 1911; Conrad Kohrs	630
Richard Fairfax, calved 1912; J. V. Hill	500
Real Fairfax, calved 1912; Gudgell & Simpson, Independence, Mo	610
Perfect, calved 1909; L. Van Reed & Son, Williamsport, Ind	250
Beau Max, calved 1909; F. H. Vodden, Malta, Ill	275
Prince Fairfax, calved 1911; Watson & Puckett, Apple River, Ill.	725
Edward Fairfax, calved 1911; Frank High, Momence, Ill	225
Perfection R. 3d, calved 1911; Conrad Kohrs	400
Byrn Du Fairfax, calved 1911; U. G. Sanders, Flemingsburg, Ky	400
Harris Prince 223d, calved 1911; P. P. Deffenbaugh, Carlinville, Ill.	225
Chandler Fairfax, calved 1911; I. L. McKinight, Wingate, Ind	225
Perfection 18th, calved 1911; R. Alexander, Williamsport, Ind	210
Onaway Fairfax, calved 1911; E. C. Lockhart, Fulton, Ill	200

SUMMARY.

49 females	$20,130; aver	$410
27 bulls	19,870; aver	740
76 cattle	40,000; aver	5[illegible]

White's Holstein Sale.

Frank White, Hampton, Iowa, held his sale of Holstein cattle as previously announced. Cattle were contributed

from other herds and altogether over 100 head were sold at a very handsome average, as the following list would indicate. The demand for Holsteins, especially good ones, is very strong and the buyers undoubtedly will make plenty of money on their purchases. Those selling at $100 and above are listed:

FEMALES.

Lauretta Burke, calved April, 1917; A. J. Podendorf, Logan, Iowa.....$155
Eva Rubina 3d, calved September, 1910; J. F. Sagehorn, Kensett, Ia. 300
Meadow Brook Marble Princess, calved January, 1912; Carl O. Wamstad, Tracy, Minn..... 170
Affra Ottey De Kol, calved June, 1911; W. B. Loveland, Janesville, Iowa 245
Paxton Affra Emma 3d, calved April, 1911; J. V. Blackford, Hampton, Iowa 295
Anchoria, calved March, 1911; Carl O. Wamstad 230
Flush's Emma De Kol 2d's De Kol, calved May, 1903; Frank Dockery, Hampton, Iowa 230
Boness' Pride, calved May, 1911; L. C. Myers, Shell Rock, Iowa 220
Carlotta Korndyke, calved March, 1911; R. J. Sours, Floyd, Iowa... 230
Groveland Idske Hijlaard, calved September, 1912; D. J. DeHoogh, Boyden, Iowa. 190
Minnie Clothilde De Kol, calved May, 1904; J. P. Wilson, Cedar Falls, Iowa 135
Wixom Vale De Kol 2d, calved January, 1910; R. J. Sours..... 150
Plebe Estata De Kol 2d, calved December, 1901; S. C. Oleson, Turland, Iowa 155
Crown Hill Plebe, calved September, 1905; Frank White & Son, Woodstock, Ill. 285
Lady Tatty 2d's Princess, calved December, 1901; L. C. Myers..... 160
May Queen Butter Girl, calved May, 1096; A. C. Forgeson, Beresford, S. D. 140
Inka De Kol Concordia, calved May, 1912; H. H. Schrodermeier, Waverly, Iowa 190
Groveland Imperial Pontiac, calved July, 1911; L. C. Myers..... 230
Groveland Mercedes Inka, calved October, 1910; L. C. Myers..... 245
Groveland Idaske Pontiac, calved September, 1909; Fred Vogel, Farnhamville, Iowa 315
Nellie Netherland Cornucopia, calved November, 1911; S. H. Saddons, Jordon, Iowa 115
Alaska Beloit 2d, calved April, 1905; C. B. McCanna, Burlington, Wis... 200
Korndyke Queen De Kol Artis, calved October, 1904; S. H. Saddons 185
Lena Lyonian Butter Girl, calved February, 1911; J. P. Wilson, Cedar Falls, Iowa..... 175
Lily Lyonian Butter Girl, calved January, 1911; W. B. Loveland... 300
Ophelia of Norwood, calved April, 1903; J. P. Jensen, Cedar Falls, Iowa 150
Princess Euphemia De Kol, calved November, 1908; Archie O. Roseboom, Girard, Kan..... 230
Gertrude Goshen, calved May, 1907; Fred Vogel 190
Lody Tatty's Louise of Deerfield, calved December, 1911; Chas. McCasky, Ogden, Iowa..... 150
Fanny Flint Prilly Segis, calved May, 1912; John Harms, Lohrville, Iowa 145
Kaan Longfield De Kol, calved January, 1909; W. B. Loveland..... 250
Princess Pietertje Barber; Carl A. Lunde, Zumbiota, Minn..... 165
Lady Winters De Kol, calved June, 1906; Frank White & Son..... 430
Elizabeth Gerben, calved January, 1904; O. H. Brook, Nashua, Iowa... 175
Miss Alice Gerben De Kol, calved November, 1905; W. J. Ulman, Hampton, Iowa 365
Sweet Alice Gerben of Cedarside, calved August, 1910; Cass Farm Co., Sumner, Iowa...4..... 300
Dorothy Emporia De Kol, calved February, 1904; F. H. Brunemeier, Hubbard, Iowa..... 335
Jewell Abberkerk Gerben 2d, calved August, 1909; F. M. Ressler, Shell Rock, Iowa 400
Queen Bess Jewel of Cedarside, calved September, 1908; S. P. Jensen 415
Jean Netherland De Kol of Cedarside, calved December, 1910; Frank White & Son..... 320
Rozana of Cedarside, calved November, 1907; Walter B. French, Goldfield, Iowa 215
Parthenea Shadybrook, calved January, 1907; C. B. McCanna..... 225
Groveland Skylark Hijlaard, calved July, 1911; J. F. Sagehorn..... 450
Lilith Inka, calved January, 1910; Cass Farm Co..... 260
Concha Butler, calved October, 1901; W. B. Barney & Sons, Chapin, Ia. 125
Calamity Mercedes, calved February, 1906; Frank Ashby, Girard, Kan. 175
Jewel Alexis, calved August, 1905; A. E. Torgeson..... 135
Lydia Mercedes, calved November, 1904; Frank Ashby 280
Pleasant Hill Nudine De Kol, calved September, 1909; A. T. Skow, Turland, Iowa 200
Maple View Clothilde, calved September, 1907; S. H. Saddons..... 145
Bell Mechthilde De Kol Burke, calved June, 1909; E. F. Yeager, Jordan, Iowa 214
Daisy Aagie De Kol Clothilde, calved April, 1910; Mark Halleberg, Fonda, Iowa 225
Lady Belle De Kol Nudine Count, calved December, 1909; C. B. McCanna, Burlington, Wis..... 230
Lady Tirania, calved April, 1910; C. B. McCanna 155
Midnight Pride, calved February, 1906; F. H. Brunemeier..... 420
Princess Abbekerk Vale, calved March, 1912; D. J. DeHoogh..... 125
Beauty Burke Johanna, calved April, 1912; A. T. Skow..... 120
Queen Saf Hengerveld, calved November, 1912; J. F. Sagehorn..... 155
Nancy Pietertje Cornucopia, calved September, 1906; C. B. McCanna.. 195
Beauty Saf Hengerveld, calved September, 1910; Abe B. Friesen, Mountain Lake, Minn..... 250
Rocelia Dale Alphi Tucker, calved February, 1904; J. F. Sagehorn... 175

MALES.

Prince Mercedes De Kol, calved May, 1912; John Harms..... 125
Sir Groveland Hartog Pontiac, calved February, 1912; F. H. Brunemeier 210
Groveland Pontiac Artis Pride, calved December, 1912; T. W. Rogers 165
King Pontiac Harry, calved December, 1910; Wm. Sargent, Bronson, Iowa 230
Groveland Pontiac Sit Inka, calved August, 1910; Carl O. Wamstad, Tracy, Minn. 180

Storm's Successful Sale.

On Thursday, February 20, 1913, J. W. Storm held a most successful sale at his farm near Seville, Ohio. It was a good offering and some twenty sows were bred to Volunteer and averaged $110 per head. The top of the sale was a Defender sow bred to Volunteer, she selling at $500. Below is a list of buyers and prices:

1. F. A. Ott.....$ 97
2. H. E. Browning, Hersman, Ill... 500
3. L. H. Scott, Alexandria, Ohio... 105
4. Jno. Truax & Son, Sycamore, O. 130
5. Mahan Bros., Osborn, Ohio..... 80
6. Smith & Rodgers, Springfield, O. 105
7. C. G. Ballou, Toledo, Ohio..... 95
8. C. B. Ream, Lima, Ohio..... 72
9. H. J. Long & Son, Ashland, O... 59
10. F. A. Moore, Van Wert, Ohio... 53
11. F. A. Moore..... 52
12. Chas. Settles, Fulton, Mo..... 55
13. Chas. Settles 54
14. C. J. Rice, Seville, Ohio..... 56
15. Bert Bilheimer, Sterling, Ohio... 55
16. Everett Stone, Creston, Ohio... 50
17. W. P. Penry, Radnor, Ohio..... 98
18. E. S. Mayes, Jr., Springfield, Ky. 55
19. E. S. Barker, Canton, Ohio..... 53
20. J. F. Myers, Marion, Ohio..... 72
21. J. R. Graham, Jeromeville, Ohio 65
22. J. R. Graham..... 45
23. J. D. Brown, Massillon, Ohio... 49
24. F. A. Ott..... 39
25. N. M. Cutting, Medina, Ohio..... 42
26. E. W. Beamer, Ashland, Ohio... 54
27. H. K. Ray, Kewanee, Ill..... 58
29. N. A. Linn, Creston, Ohio..... 40
30. A. Workman, Orville, Ohio..... 140
31. F. J. Rupert, Spencerville, Ohio 75
32. John Keefe, Piper City, Ill.... 67
33. J. W. Chapman, Woodburn, Ind.. 100
34. Smith & Rodgers 157
35. Jno. Truax & Son 220
36. Jno. Obrecht, Loudenville, Ohio 58
37. H. J. Long & Son, Ashland, O... 48
38. Byron King, Perrysville, Ohio... 59
39. Byron King 47
40. E. C. Fomer, Jeromesville, Ohio 44
41. Walter Geltgey 47
42. Smith & Rodgers..... 45
43. I. D. Brown, Creston, Ohio..... 49
44. E. Stout, Creston, Ohio..... 55
45. H. Myers, Wooster, Ohio..... 45
46. W. A. Little, Kenton, Ohio..... 44
47. H. G. Bernard, Creston, Ohio... 45
48. Guy Stafford, Loudenville, Ohio 47
49. H. J. Long & Son..... 57

Three unborn pigs out of Browning's Duchess, sired by Volunteer, were sold. They brought $100, $100 and $95, respectively. The average on the entire sale was $73.82 on fifty-two head.

Stemen & Sons' Duroc Sale.

Stemen & Sons had a good sale, as is their custom, although the prices did not range quite so high as usual, but this was owing to the lateness the sows were bred. Below is a list of buyers and prices:

1. Samuel Harrod, Wapakoneta, O...$47
2. Arthur Hyser, Sheldon, Ind..... 45
3. John Keefe, Piper City, Ill..... 80
4. C. F. Perry, Spalding, Ohio..... 46
5. J. W. Chapman, Woodburn, Ind... 93
6. Pttsburgh-Buffalo Co., Johnetta, Pa. 49
7. L. E. Huffine, Van Wert, Ohio... 43

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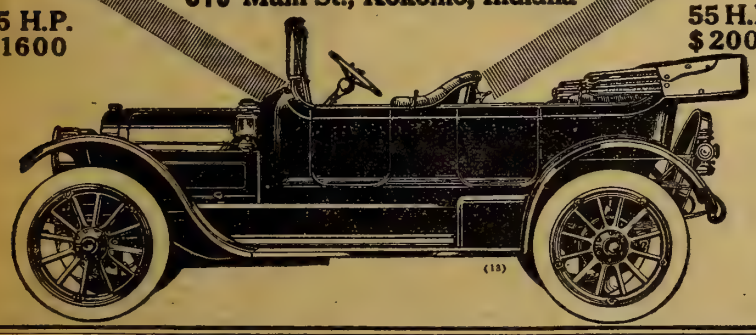

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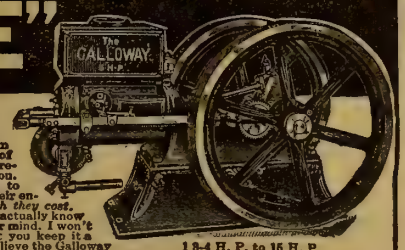

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182 **Second Ave., Rock Island, Ill.**

Rock Island "C.T.X." Universal

(109)

Lost $100.00 by Not Buying Champion Silos

That's what Wisdom and Taylor of Bowling Green, Mo., write. They bought two wooden door frame silos several years ago. Since then they bought two Champion steel door frame silos and consider them worth $100 more than any others. That's more proof of our claims that the Champion is the best.

Don't Make the Same Mistake—Investigate

Don't be satisfied with any kind of silo. Get the best. That means the Champion, the kind that's on thousands of farms, the silo with interlocking steel door frame, malleable lugs, combination latch and ladder, steel anchors and inside hoops.

Write for Full Particulars

Find out all about the Champion. One proof will convince you that the Champion is the best, also biggest profit maker.

WESTERN SILO CO.
100 **11th St. Des Moines, Iowa**

Don't Have a Blind One

"VISIO"

An Absolute Cure for Moon Blindness

(Opthalmia), Cataract and Conjunctivitis

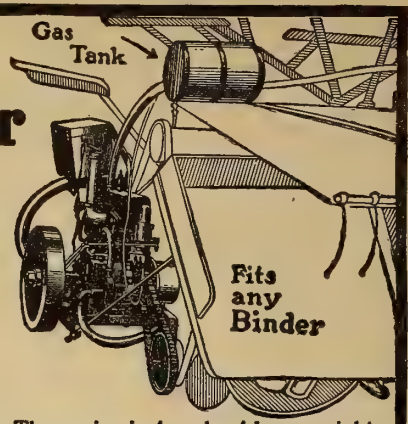
Shying horses all suffer from diseased eyes.

"Visio" will convince any horse owner that it will absolutely cure defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our GUARANTEE to refund money if it does not cure.

$2.00 per bottle, postpaid on receipt of price.

VISIO Remedy Ass'n, 2459 Calumet Ave., Chicago, Ill.

Operate Your Binder with a Cushman Engine



THE Farm Cushman Engine saves a team and makes grain cutting easy. All the horses do is draw the machine. The engine does all the work of operating.

Steady power is supplied. The sickle never stops when the bull wheel skids.

It is a great advantage in low, wet ground. More work and more satisfactory work can be done in all conditions of weather and grain.

Hundreds of these engines are now in use—on grain binders everywhere—on rice binders in the South and on corn binders.

Operating cost is low—30c to 50c a day. That's actual experience of users.

The Farm Cushman is the original binder engine. It is the first engine ever adapted to binders and the only one in successful use.

The engine is 4 cycle, 4 h.p., weight under 200 lbs. It speeds to 5 h.p. easily. Built on the automobile engine plan—high efficiency and great power in light weight.

It is fitted with high grade Schebler carburetor. Its automatic throttle governor measures out just enough fuel to do its work at any required speed and no more.

The Farm Cushman fits any binder. It can be detached and used separately to run any other farm machine.

We build 6-8 h. p. and 20 h. p. specialty engines for heavier farm duties. Power for all purposes. Tell us your needs.

You should know this binder engine. Read the story of advantages told by its users. Send for free book.

CUSHMAN MOTOR WORKS, 2029 N St., Lincoln, Neb.

Costs Less Per Year

That's the Record of Great Western Spreaders for the Past 12 Years

Less Expense—Less Labor—Less Repairs—Longer Service

The cost of a manure spreader must be figured by the *years* of service it gives you and the *kind* of service you get out of it. The first cost of a **Great Western** may be a little more than the price of some shoddy, poorly-made, heavy-draft spreader, but it costs more to make a **Great Western**, and that extra cost is made up to you many times in the kind and length of service it gives. Based on the *cost per year*, the **Great Western** is the cheapest spreader you can buy. The extra dollars you pay at the start are paid for *quality*, and you'll get them all back, with many more.

Great Western—Low Down

embraces all the great features that have kept it ahead of all others for over twelve years. More than 100,000 farmers testify to the superiority of this machine. There's but one opinion regarding this spreader, and that is that it is the *one perfect* spreader.

Features that Count

Wheels under the load—roller bearings—rear wheels track with the front—lightest draft — no neckweight — simplest direct drive—no hidden parts, no enclosed gears—individual rollers—strong, rigid oak beater rails — these are some of the points that put the **Great Western** in first place years ago, and have *held* it there ever since.

Trussed Steel Frame

The Great Western frame is built for great strength—of best trussed steel, firmly braced. All weight of load and beater, and force of operation, rests on 4-inch steel sills.

Simplest Drive Possible

Nothing to get out of order. No enclosed gears. Simple shifting device—no parts in motion when driving to or from field.

Fewest parts on any spreader. Simplicity, strength, service and durability are its crowning features. *Write today* for Free Spreader Book.

ROCK ISLAND PLOW CO.
181 B Second Avenue
Rock Island, Ill.

Wholesale and Retail **Profit Saved! FREIGHT PAID**

RUBBER ROOFING

1-Ply, 35 lb. 108 sq. ft., $1.10 per roll.
2-Ply, 45 lb. 108 sq. ft., $1.30 per roll.
3-Ply, 55 lb. 108 sq. ft., $1.50 per roll.

Warranted For 25 Years. Terms Cash. These Special Prices Only Hold Good for Immediate Shipment.

FREIGHT PAID to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S.D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla. on orders of three rolls or more. Special prices to these States on request.

INDESTRUCTIBLE BY HEAT, COLD, SUN OR RAIN.

FIRST-CLASS IN EVERY RESPECT. NO SECONDS, REMNANTS OR MILL ENDS. Write for FREE SAMPLES or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to the Southern Illinois National Bank.

Century Manufacturing Co., Dept. 186 East St. Louis, Illinois, or Dept. 186 132 N. Wabash Avenue, Chicago.

8. C. F. Cooper, Van Wert, Ohio---- 41
9. A. Simpson, Harrod, Ohio------- 38
10. Bob Ewing, New Hampshire, O- 38
11. Menaugh Bros., Gardner, Ill---- 42
12. M. A. McWilliams, Wall Lake, Ia. 49
13. Richard Schaadt ---------- 32
16. Eli Diller, Bluffton, Ohio------ 75
17. J. P. Creston, Celina, Ohio------ 53
18. J. A. Snyder, Bryan, Ohio------- 40
19. J. A. Utrecht, Van Wert, Ohio-- 34
20. Marion Deshler, Deshler, Ohio--- 43
21. J. A. Worley, Monroeville, Ind-- 39
22. G. V. Beamer & Son, Wabash, Ind. ---------- 35
23. Jacob Delaval, Delphos, Ohio---- 45
24. Jno. Truax & Son, Sycamore, O-- 66
25. E. A. Walborn & Son, Van Wert, Ohio ---------- 41
26. L. E. Kohli, New Paris, Ind------ 41
27. John Whetstone, Spencerville, O- 38
28. Richard Schaadt ---------- 35
29. Smith & Rodgers, Springfield, O- 30
30. Pittsburgh-Buffalo Co. ---------- 36
31. J. W. Chapman---------- 51
32. D. O. Clapper, Delphos, Ohio----- 37
33. Eli Diller ---------- 40
34. Richard Schaadt ---------- 34
35. J. A. Snyder---------- 34
36. D. Stemen, Middle Point, Ohio--- 35
37. Thos. Matthews, Middle Point, O. 40
38. Richard Schaadt ---------- 34
40. H. C. Overland, Montpelier, Ohio 49
41. Pittsburgh-Buffalo Co. ---------- 52
42. C. W. Webster, Butler, Ind------ 61
44. H. E. Ritchie, Middle Point, Ohio 36
45. R. C. Gardner, Delphos, Ohio---- 31
47. H. P. Kraschel, Convoy, Ohio---- 39
48. R. C. Gardner---------- 34
49. Thomas Matthews ---------- 33
50. W. E. Smiley, Payne, Ohio------- 45
51. A. P. Cleland, Macy, Ind-------- 58
52. W. E. Ritchie---------- 36
53. W. E. Ritchie ---------- 37
54. E. H. Pressey, Van Wert, Ohio--- 37
55. R. C. Gardner---------- 34
56. Chas. F. Sprague, Lima, Ohio--- 47
57. L. E. Kohli---------- 40
58. Pittsburgh-Buffalo Co. ---------- 60

The average was about $40 on the entire lot sold.

The Arney Angus Sale.

The J. V. Arney Aberdeen Angus sale at Leon, Iowa, on February 27th, encountered the severest storm of the year, but he came out all right and made an average of $105.30 on everything, including a lot of young calves. The top of the sale was Queen of Leon 2d, a three-year-old cow, that went to Bert Woodard, Leon, Iowa, at $202.50. Col. Silas Igo cried the sale. Below we list those selling for $100 and above:

COWS.

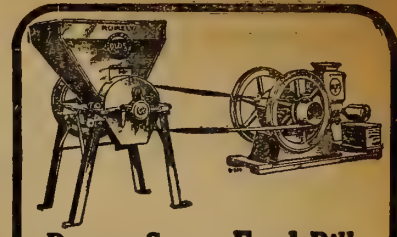
Blackbird Missie 2d, calved December, 1907; W. H. Colter, Decatur City, Iowa----------$137.50
Arndale Black Princess 4th, calved May, 1910; Art Scott, Decatur City, Iowa---------- 160.00
Arndale Black Princess 2d, calved May, 1909; Art Scott---------- 175.00
Arndale Prunella, calved September, 1904; Art Scott---------- 125.00
Poetess of Arndale, calved March, 1908; Brann & Moore, Memphis, Mo. ---------- 117.50
Poetess of Arndale 2d, calved April, 1910; T. R. Sanders, Memphis, Mo. ---------- 137.50
Elluna 2d, calved July, 1909; Brown & Walker, Clarinda, Ia.- 130.00
Erica of Paramount, calved May, 1909; E. O. Lovett, Garden Grove, Iowa ---------- 130.00
Katrine of A., calved September, 1910; Brown & Moore---------- 162.50
Queen of Leon 3d, calved April, 1910; Euritt Bros., Decatur City, Iowa ---------- 105.00
Queen of Leon 2d, three years; Bert Woodard, Leon, Iowa---- 202.50

McCarty's Hereford Sale.

T. E. McCarty, Princeville, Ill., dispersed his herd of Hereford cattle at public sale at Peoria, Ill., on February 27th. The attendance was large, many breeders who had attended the McCray sale at Kentland, Ind., the day previous being on hand, while there was a liberal attendance of local buyers, so that the entire offering was quickly absorbed. Mr. McCarty has been breeding Herefords for some twenty years and has always found them one of the most profitable things on his farm, but desiring to make a change in his farming operations he was compelled to sell his cattle. The top of the sale was $355, paid by J. C. Robinson & Son, Evansville, Wis., for the six-year-old cow, Lady Belle, sired by Disturber. J. L. Priddy & Son, Warren, Ind., paid $250 for the cow, Galatea, calved in 1909, sired by Beau Donald 68th and out of a March On dam. Priddy & Son were liberal bidders and buyers all through the sale, as were also Michael Jacobs, Sparland, Ill.; R. B. Ross, of Virginia, and J. H. & J. W. Van Natta, La Fayette, Ind. Mr. McCarty conducted the sale in a highly satisfactory manner and the selling was done by Col. Fred Reppert. The following is a list of all sales amounting to $100 or over:

COWS AND HEIFERS.

Acasia, calved 1911; R. B. Ross, Virginia ----------$100
Florence Perfection, calved 1910; L. Ba, LeRoy, Ill---------- 135
Miss Donald, calved 1907; J. L. Priddy & Son, Warren, Ind------- 200
Hazel Perfection, calved 1911; R. B. Ross ---------- 100
Belle Donald 2d, calved 1908; J. H. & J. W. Van Natta, La Fayette, Ind. ---------- 200
Perfection Belle, calved 1910; J. Hildebrand, Glasford, Ill------- 135
Jessaline Donald, calved 1909; F. W. Sheehy, Durant, Iowa---------- 125
Linda Donald, calved 1906; Michael Jacobs, Sparland, Ill---------- 110
Linda Perfection, calved 1909; Michael Jacobs ---------- 125
Belle Disturber, calved 1911; Michael Jacobs ---------- 160
Sophia, calved 1911; J. C. McKown, Glasford, Ill. ---------- 105
Coral, calved 1911; R. B. Ross------ 125
Perfection Maid, calved 1911; F. W. Sheehy ---------- 100
Linda Donald 2d, calved 1910; Finch Bros., Joliet, Ill---------- 105



Power Saves Feed Bills

Don't waste the feed. Get the full value from the grain you feed your stock—grind it—get all the beef and pork out of every bushel. Get a feed mill outfit. Here's a good one—

A 4½ Rumely-Olds Engine and a Rumely Feed Mill

We don't have to tell you about this engine. It's proved its worth. Thirty-five years of experience goes into every engine. It's built right—every part of the best material. You'll find a hundred uses for this engine. It will make money for you every day. Inquire about this engine—you can't go wrong on it. It's built for service and will save money for you every day that you own one.

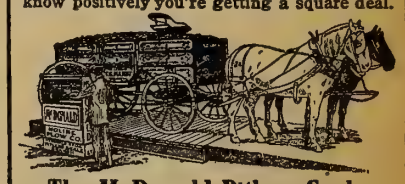
The Rumely Feed Mill is the right mill to grind feed—made of the best materials—least number of parts—easily adjusted.

Send for Data-Book No. 344, on the Rumely-Olds Engine and information about this feed mill. Ask the name of our nearest dealer.

RUMELY PRODUCTS CO.
(Incorporated)
Power-Farming Machinery
Lincoln Des Moines
Home Office: La Porte, Ind.

Know You're Right

Weigh your grain, stock and coal yourself and know positively you're getting a square deal.

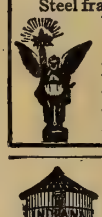


The McDonald Pitless Scale

weighs accurately every day in the year. Protected bearings cannot freeze. No pit required—everything above ground. Steel frame—steel joists—10 year guarantee. U. S. Standard. Used for weighing U.S. Mails. Flying Dutchman Dealers sell them.

FREE BOOKLET. Write today.

MOLINE PLOW CO.
Dept. 11 MOLINE, ILL.



You can keep THREE COWS FAT with an

INDIANA SILO

from the same land you now use to keep ONE COW LEAN.

Some farmers do even better. One writes that he could burn his Indiana Silo and buy a new one every year and still be money ahead. You don't have to pay cash for an Indiana Silo. It pays for itself out of its own earnings.

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Ends Drudgery of High Lifting Saves 25% of The Draft

30 Day Test will prove that you can haul heavier loads over softest fields with less effort if wagons are equipped with *low*

EMPIRE STEEL WHEELS

Write today for catalog and particulars of free trial offer.

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HARTSHORN SHADE ROLLERS

Bear the script name of Stewart Hartshorn on label. Get "Improved," no tacks required.

Wood Rollers *Tin Rollers*

PATENT YOUR IDEAS

$9,000 offered for certain inventions. Book "How to Obtain a Patent" and "What to Invent" sent free. Send rough sketch for free report as to patentability. Patents advertised for sale at our expense in Manufacturers' Journals.

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TIMOTHY $2.00 Per Bu

SAVE MONEY---Buy Direct From Grower.

New recleaned Iowa Grown Timothy, free from weed seed. Guaranteed satisfactory or money refunded. Write today for large 76-page catalog and Free Samples. Low prices on Clover and all grass seeds. Write before advance. A. A. BERRY SEED CO., Box 303 Clarinda, Iowa.

When writing to advertisers please mention The Homestead.

There's a long string of middlemen between you and the mill and every one adds **his** *profits to the price of* **your** *lumber.* The retail dealer in your town is only *one* of them. You can't see the others but they're all there, adding to the *cost* of your lumber without adding to its *quality* or quantity—making you pay *more for low grade stock.*

STOP this loss. **Go over the middlemen's heads**—buy direct from our mills and **get all that you pay for.**

And remember—Quality is as important to you as price. A house built with poor stock is labor and money wasted. Every piece of lumber you buy from us is clean, new, high-grade stock. *Guaranteed* to be up to standard of specifications or better. It is not picked-over lumber. No local Line Yard can give you our quality of lumber at our price, because their stock is limited and they do not get it at first hands.

Our enormous supply—the biggest in the middle west—enables us to give you exactly what you want, in size and quality. **No substitutions** which make your lumber **cost you more in cash and labor.**

THESE ARE POINTS TO REMEMBER

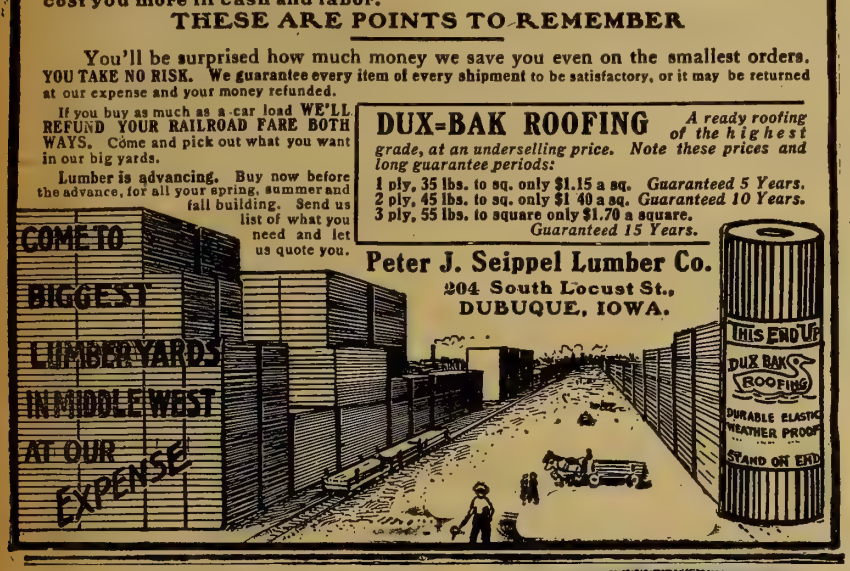
You'll be surprised how much money we save you even on the smallest orders. **YOU TAKE NO RISK.** We guarantee every item of every shipment to be satisfactory, or it may be returned at our expense and your money refunded.

If you buy as much as a car load **WE'LL REFUND YOUR RAILROAD FARE BOTH WAYS.** Come and pick out what you want in our big yards.

Lumber is advancing. Buy now before the advance, for all your spring, summer and fall building. Send us list of what you need and let us quote you.

DUX-BAK ROOFING *A ready roofing of the highest grade, at an underselling price. Note these prices and long guarantee periods:*

1 ply, 35 lbs. to sq. only $1.15 a sq. *Guaranteed 5 Years.*
2 ply, 45 lbs. to sq. only $1 40 a sq. *Guaranteed 10 Years.*
3 ply, 55 lbs. to square only $1.70 a square. *Guaranteed 15 Years.*



Peter J. Seippel Lumber Co.
204 South Locust St.,
DUBUQUE, IOWA.

"Farmers' Pride"

A General Purpose Saddle That Fills Every Need. **Special Price for March and April** **$9.67**

Seldom is an opportunity offered to buy a good saddle at a low price, and never has so fine a saddle as our "Farmers' Pride" been offered at anywhere near the price we are quoting. Just another example of Sears, Roebuck and Co.'s policy of distributing dependable merchandise at prices based on production cost plus **one** profit.

This is the way we make it:

TREE—13½-inch, Morgan style, steel fork and horn; sheepskin covered bars, making the saddle easy on the horse's back.
SKIRTS—21 inches long.
RIGGING—Double cinch rigged, with 1-inch tie straps to tie; 4-inch soft hair cinches.
SEAT—Half leather covered, roll cantle.
STIRRUP STRAPS—1½ inches wide, full length, to buckle; fenders, 6½ inches wide, 13½ inches long, attached; 3-inch Texas bolt stirrups.
Weight of saddle, about 13 pounds; packed for shipment, about 20 pounds.

No. 10W3513021/4 Price.....$9.67

Send us an order for either or both of these items and we will ship promptly. Your money back if you are not pleased. Take advantage of these low prices now, as hides are scarce and leather is steadily advancing in price. This is an opportunity that will not be presented again. Our complete line of exceptional values in harness, saddlery and accessories is shown in our beautifully illustrated 80-page Special Harness Catalog. Write "Harness" on a postal card, sign your name and address and we will mail you this catalog postpaid. Act now and send us an order and save money.

Our "Mansfield" Farm Harness

is still another money-saving bargain in a strong, serviceable double farm harness worth almost twice the price we ask for it. Following are the specifications:

BRIDLES—⅞-inch short cheeks, round side reins, sensible blinds, nickel spots.
LINES—1⅛ inches wide, 18 feet long.
HAMES—Wood, iron bound, square staple; Moeller hame tugs, jointed Concord clip attachments; 1½-inch breast straps and martingales, with collar straps.
TRACES—1¾ inches wide, Moeller clip cockeyes.
TRIMMINGS—XC buckles.
Weight, packed for shipment, about 80 pounds.
No. 10W35567¼ Price, without collars..... **$32.79**

PADS—Flat harness leather, felt lined; drop hooks and terrets; nickel spots; folded bellybands; 1⅛-inch hip and back straps; scalloped safes, cruppers buckled on; Cooper's trace carriers, nickel spotted on outside.

A BARGAIN ONLY **$32.79**

We guarantee this saddle or harness to give you satisfactory service.

Sears, Roebuck and Co.
Chicago, Ill.

A Pair of $3 Gloves FREE

You can share profits with me this winter. Every one of my friends will get absolutely free a pair of fur gauntlet gloves or mittens (just as you prefer) with each horse, cow, steer or bull hide which we tan and make into a coat or robe—workmanship guaranteed. Send for prices and our valuable booklet, which has a large amount of information on how to select and care for hides, how to choose the best hides for fine coats, how to ship hides, etc. Write today. Address

H. B. Mickle, Pres.,
H. B. Mickle Fur Coat & Robe Co.
531 West 7th St., Mason City, Iowa.

Mattie, calved 1911; J. C. McKown		115
Lady Belle, calved 1905; J. C. Robinson & Son, Evansville, Wis		355
Beau Belle, calved 1902; J. L. Priddy & Son		145
Blossom Donald, calved 1909; Finch Bros.		115
Miss March On, calved 1904; J. L. Priddy & Son		205
Priscilla, calved 1904; J. L. Priddy & Son		110
Galatea, calved 1909; J. L. Priddy & Son		250
Laura, calved 1911; C. A. Martin, Altona, Ill.		150
Zephyr Perfection, calved 1910; C. A. Martin		160
Lady Winsome, calved 1907; J. H. & J. W. Van Natta		210
Lady Donald, calved 1909; J. H. & J. W Van Natta		165
Correctress Maid, calved 1910; J. C. McKown		100
Perfection Queen, calved 1912; J. L. Conley, Peoria, Ill		120
Brida Donald ,calved 1909; J. L. Priddy & Son		135
Miss Corrector, calved 1906; Lewis Bain, LeRoy, Ill		160
Zephyr Donald, calved 1909; J. C. Sheehy		150
Lars Blossom, calved 1903; D. S. Andrus, Glasford, Ill		135
Mabel Donald, calved 1908; R. O. Webster, Toulon, Ill		185
Perfection Belle, calved 1911; J. C. McKown		105
Linda March On, calved 1904; J. L. Priddy & Son		155
Winnie, calved 1911; J. L. Priddy & Son		100
BULLS.		
Perfection 2d, calved 1911; R. B. Ross		165
Bondsman, calved 1908; Cyrus A. Tow, Norway, Iowa		150
Captain, calved 1912; J. Hildebrand		105
Disturber Boy, calved 1912; W. E. Birks, Cornland, Ill		100
Bondsman 3d, calved 1912; J. L. Conley		100
SUMMARY.		
38 females	$5,365; aver	$142
6 bulls	695; aver	116
44 cattle	6,060; aver	140

The Pfander & Sons Poland China Sale.

Another great sale is to be recorded for J. W. Pfander & Sons, Clarinda, Ia. On February 26th they sold forty-one head of their big-type Poland China sows at an average of $110.69, making it one of the best sales of the season. They put up a most excellent offering and those who attended the sale were well pleased and went after them as though they wanted them. The top of the sale was Pawnee Belle, No. 2 of the catalog, and she was bought by U. S. Burn, Saxon, Mo., at $330. She was certainly one of the greatest sows that has gone through any sale ring this winter. She was in pig to old A Wonder. Col. H. S. Duncan cried the sale. We list herewith the entire offering:

1.	Archie Davis, Tremont, Ill	$120.00
2.	U. S. Burn, Saxon, Mo	330.00
3.	H. C. Sprague, Sabina, Ohio	150.00
4.	John Kiely, Toledo, Iowa	112.50
5.	Perry Pollard, Humboldt, Neb.	80.00
6.	J. F. Foley, Oronoque, Kan.	102.50
7.	G. A. Kissinger, Milford, Neb.	195.00
8.	Henry Fesenmeyer, Clarinda, Iowa	150.00
9.	Will Forbes, Clarinda, Iowa	100.00
11.	Perry Pollard	150.00
12.	Harry Nelson, Miami, Texas	157.50
13.	Geo. Griffith, Pleasanton, Ia.	128.50
14.	C. E. Sapp, Sharpsburg, Iowa	75.00
16.	John Kiely	115.00
18.	T. E. Miller, Clarinda, Iowa	70.00
20.	Ernest Beery, Shambaugh, Ia.	107.50
21.	W. D. Carwin, Essex, Iowa	120.00
22.	W. D. Carwin	77.50
24.	Clyde Pfander, Clarinda, Ia.	59.00
25.	Everett Johnson, Clarinda, Iowa	200.00
26.	H. F. Adams, Castleton, Ill.	155.00
27.	Thos. O'Hara, Ohio, Ill	117.50
30.	Miller Parrish, Eureka, Kan.	120.00
31.	Everett Johnson	79.00
32.	A. L. Bedell, Diagonal, Iowa	102.50
37.	Ralph McCoy, Hepburn, Iowa	102.50
38.	H. C. Sprague	97.50
40.	H. P. Mayne, Sharpsburg, Pa.	67.50
42.	W. D. Carwin	65.00
43.	George Griffin, Pleasanton, Ia.	71.00
44.	W. C. Galloway, King Hill, Idaho	60.00
45.	John Doyle, Bloomingsburg, Ohio	80.00
46.	Howard Phelps, Carthage, Mo.	87.50
47.	Perry Pollard	72.50
48.	E. P. Byrne, Edina, Mo	70.00
49.	Henry Fesenmeyer	155.00
50.	E. P. Byrne	50.00
51.	G. W. Sefrit, Lucas, Iowa	82.50
53.	O. E. Davis, Red Oak, Iowa	70.00
54.	W. D. Carwin	67.50
55.	A. L. Bedell	68.00

Evans' Chester White Sale.

On February 28th, C. C. Evans, North English, Iowa, closed out his herd of Chester Whites, which was necessitated by the sale of his farm, upon short notice. Mr. Evans expects to buy another farm and engage in the business again. This sale made the highest average ever made on Chester Whites. The high standing of th herd made this possible. R. E. Brown topped the sale on No. 1 at $276. J. L. Barber secured a great sow in No. 14 at $165. J. B. Tracy, Alden Anderson, J. H. Mahannah and G. H. Hess all secured good sows at right prices. H. N. Donhowe, Story City, Ia., sold the offering and has to his credit the best sale in Chester White history. Those selling at $50 and above are listed below:

Chief Keokuk; Frank Sherer, Joy, Ill.		$130
1.	R. E. Brown, Dunlap, Iowa	276
2.	G. H. Hess, Leaf River, Ill	154
3.	A. M. Gustafson, Trade Lake, Wis.	100
4.	W. H. Hall, Harper, Iowa	93
5.	Wm. Meyer, Hedrick, Iowa	62
6.	J. B. Tracy, Greene, Iowa	105
7.	Otis Coffman, South English, Iowa	85
9.	J. H. Mahannah, North English, Iowa	125
10.	C. Zimmerman, North English, Iowa	70
12.	A. J. Campbell, North English, Iowa	60
13.	Alden Anderson, Hillsworth, Ia.	105
14.	J. L. Barber, Harlan, Iowa	165
15.	E. J. Brouhard, Colo, Iowa	55
16.	J. McCall, North English, Iowa	70
18.	F. O. Dunkerton, Dunkerton, Ia	60
19.	L. L. Patterson, North English, Iowa	50
20.	W. H. Burkett, Beaver Crossing, Neb.	60
21.	A. L. Gray, Mt. Hope, Wis	70
22.	Frank Sherer	91
23.	L. L. Patterson	55
24.	D. H. Lewis, Geneseo, Ill	55
25.	W. L. Dodd, Laona, Ill	55
26.	W. H. Dunbar, Jefferson, Iowa	55
28.	Frank Sherer	51
SUMMARY.		
23 sows	$2,200; aver	$95 60

Ewing's Superba Sale.

The sows bred to Superba were in

Small Fields Too

Tractors aren't meant for big farms and large fields only—a

RUMELY OilPULL TRACTOR LA PORTE IND

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will plow fenced fields of 8 to 10 acres profitably. Some farmers use the OilPull on three-acre patches.

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(Incorporated)
Power-Farming Machinery
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$25.95 FIVE YEAR GUARANTEED $29.95
AIR COOLED 1½ H.P. GASOLINE ENGINE 1½ H.P. HOPPER COOLED
LIKE PICTURE

We will send you our latest improved 1 1-2 horse power air cooled gasoline engine at $25.95 or one of our famous high grade, 5-year Insured Faultless hopper cooled 1 1-2 to 12 horse power engines (like picture) at $29 95 up, without any money in advance on at our risk. Test it as severely as a gasoline engine can possibly be tested and after the 30 days are up, if you find the engine unsatisfactory for any reason, return it at our expense. Our engines possess **Every Good New Feature** Four cycle; make and break ignition; speed control lever; governor controls fuel supply; uses fuel according to load; simple positive mixing device. Easiest operated engines in the world. Any one can run them Simply constructed. No complicated parts. Wear longest. Develop greatest power. If interested **WRITE US AND SAY:** "Send me your big special gasoline engine catalog," and read for yourself our wonderful 30 day free trial offer, our no money in advance offer and our great 5 year insurance policy; see the big fine pictures of our engines and our wonderfully low prices.

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great demand, as were the good Superba sows bred to B. & C.'s Col. The offering was in fine shape and were first-class individuals. J. W. Storm topped the sale on No. 1, a splendid sow by Superba, dam by Chief's Col., she selling for $209. The second highest price was for a High Chief-bred sow bred to Superba, she going to Mahan Bros., Osborn, Ohio, at $117.50. Breeders seemed well pleased with Mr. Ewing's good offering. Below is a list of the buyers and prices:

1.	J. W. Storm, Seville, Ohio	$209.00
2.	J. O. Duncan, Lebanon, Ky.	146.00
3.	McKee Bros., Versailles, Ky.	105.00
4.	Menaugh Bros., Gardner, Ill.	68.00
5.	J. O. Duncan	87.50
6.	M. T. Shafer, New Hampshire, Ohio	40.00
7.	Smith & Hall, Vermilion, Ill.	77.50
8.	Smith & Hall	65.00
9.	M. T. Shafer	45.00
10.	Jesse Andrews, West Point, Ind.	72.00
11.	Herr & Miller, Lima, Ohio	60.00
12.	D. E. Sherrick, Indianapolis, Ind.	91.00
13.	Mahan Bros., Osborn, Ohio	117.50
14.	H. E. Herron, Hartford City, Ind.	53.00
15.	Maddox Bros., New Paris, O.	100.00
16.	J. E. Swart, New Paris, Ind.	83.00
17.	E. S. Mayes, Jr., Springfield, Ky.	57.50
18.	F. W. Havens, Burgoon, Ohio	73.00
19.	C. C. Stevens, West Unity, O.	42.50
20.	L. E. Kohli, New Paris, Ind.	76.00
21.	E. S. Mayes, Jr.	75.00
22.	H. J. Cornish, Hebron, Ind.	75.00
23.	Jesse Andrews	40.00
24.	J. O. Duncan	69.00
25.	W. E. McIntire, Warren, Ind.	75.00
27.	Smith & Rodgers, Springfield, Ohio	40.00
28.	O. C. Stevens	50.00
29.	McKee Bros.	52.00
30.	Herr & Miller, Lima, Ohio	66.00
31.	L. M. Barns, New Hampshire, Ohio	50.00
32.	Stuckey & Robbins, Mechanicsburg, Ohio	58.00
33.	W. J. Fitts, Gallatin, Tenn.	60.00
34.	L. E. Kohli	100.00
35.	Marvin Harrod, Uniopolis, O.	47.00
36.	L. C. Ransbottom, Elida, O.	72.50
37.	W. W. Monk, Kendallville, Ind.	63.00
38.	Stemen & Sons, Middle Point, Ohio	75.00
39.	G. O. Snyder, St. Johns, Ohio	51.00
40.	W. E. McIntire	59.00
41.	B. H. Johnson, West Liberty, Ohio	45.00
42.	A. C. Perry, New Hampshire, Ohio	36.00
43.	A. C. Perry	35.00
44.	H. L. Troyer, Continental, O.	34.00
45.	C. C. Boyd, Centralia, Mo.	50.00
47.	Rhodes & Andrews, St. Johns, Ohio	32.00
49.	Dan Kirwin, New Hampshire, Ohio	40.00
50.	L. E. Kohli	41.00
51.	Walter Harrod, New Hampshire, Ohio	72.00
53.	E. L. Crookston, West Liberty, Ohio	40.00
54.	M. T. Shafer	39.00
55.	Dan Kirwin	49.00
57.	H. E. Browning, Hersman, Ill.	51.00
59.	McKee Bros.	71.00

The average on the entire offering of sixty head was $59.90. The average on the bred sows was $64.

The Shrader Poland China Sale.

Quite a good crowd of breeders and a good local attendance were present at the W. M. Shrader & Co. dissolution sale at Greenfield, Iowa, on February 25th, and they made an average of $61 on everything. The top of the sale was that splendid boar, Choice Look, and he went to J. A. Countryman & Son, Rochelle, Ill., at $215. This is one of the best Poland China boars sold in the West in recent years and he is one of the very best breeding hogs that we know of. His get have always been sale toppers and they have had both size and quality. He should make a great boar in the Countryman herd. Below we list those selling for $40 and above:

	Choice Look; J. A. Countryman & Sons, Rochelle, Ill.	$215.00
Big	Improver; E. S. Bosold, Stuart, Iowa	100.00
1.	Ed Hickey, Gretna, Neb.	100.00
2.	C. W. Humerick, Atlantic, Ia.	90.00
4.	Jas. Cockerton, Whiting, Ia.	67.50
5.	Henry Fesenmeyer, Clarinda, Iowa	59.00
7.	W. L. Willey, Menlo, Iowa	58.00
8.	J. Draymier, Stuart, Iowa	67.50
9.	Ed Crest, Stuart, Iowa	61.00
10.	Mart Leydon, Stuart, Iowa	52.00
11.	O. W. Simmons, Guthrie Center, Iowa	58.00
12.	J. M. Sheehan, Stuart, Iowa	66.00
13.	J. M. Sheehan	90.00
14.	H. A. Hasier, Adair, Iowa	55.00
15.	E. S. Bosold	60.00
16.	Frank Boyd, Menlo, Iowa	50.00
17.	J. Jones, Stuart, Iowa	52.50
18.	W. H. Tanott, Fontanelle, Ia.	57.00
22.	B. F. Bosold	60.00
25.	J. M. Sheehan	55.00
26.	M. Christensen, Stuart, Iowa	42.00
27.	E. H. Tanott, Fontanelle, Ia.	51.00
28.	O. M. Healy, Bedford, Iowa	56.00
29.	O. W. Simmons	50.00
30.	Fred Whittum, Stuart, Iowa	55.00
31.	C. M. Riggs, Stuart, Iowa	43.00
32.	E. S. Bosold	49.00
33.	O. M. Healy	52.00
34.	O. M. Healy	50.00
40.	Fred Sexsmith, Orient, Iowa	46.00
50.	W. H. Tenott	61.00
51.	L. B. Williams & Sons, Villisca, Iowa	60.00
52.	Tom O'Brien, Stuart, Iowa	49.00
00.	Tom O'Brien	49.00

THE MARKETS.

Union Stock Yards, Chicago, Ill., February 28th.—Steer trade has been gradually working on a stable basis. February has witnessed advances of 25 to 75 cents per hundredweight. Medium and cheep steers showed most of it. Killers are now getting only crooked rough and thinly covered steers below $8 and much of their buying is at $8.25 to $8.60. Finish is the factor and weight is not enjoying a premium, nor is it likely to do so. The spread is narrow and 80 per cent of the crop is selling at a range of $7.80 to $8.60. Prices are high, especially when the product reaches the consumer, and killers are determined on a hand-to-mouth policy which renders the market supersensitive to many influences, especially the weather. Every short supply reveals killers' needs and frequently they have not been able to get enough beef to satisfy urgent trade needs. Considerable light quarantine stuff is reaching Kansas City and St. Louis, and as conditions have been right for making beef in Texas an expanding movement from that quarter may be expected. The visible supply appears to be in strong hands and market sentiment is conservatively bullish.

Prime steers, 1,350-1,700 lbs.	$8.85@9.00
Choice steers, 1,250-1,500 lbs.	8.75@8.90
Choice steers, 1,100-1,240 lbs.	8.65@8.90
Good to prime yearlings	8.25@8.75
Medium to good yearlings	7.75@8.20
Common to fair yearlings	7.00@7.60
Good steers, 1,100-1,400 lbs.	7.75@8.40
Good steers, 900-1,200 lbs.	7.75@8.00
Fair steers, 900-1,200 lbs.	7.50@7.75
Medium steers, 850-950 lbs.	7.25@7.50
Inferior steers, 850-950 lbs.	6.85@7.25
Common steers, 800-850 lbs.	6.50@6.75

STOCKERS AND FEEDERS.

Declines ranging from 10 to 35 cents are shown by stock and feeding cattle from the phenomenally high rates current a week ago, but the reaction is likely to prove a temporary one only in the opinion of many traders, for high as prices have been and still are, it would neither take much of curtailment of supply or long continuance of a healthy and strengthening fat cattle trade to arouse prospective stock and feeding cattle buyers' anxiety for supplies again to feverish heat. Killers and feeders are competing for nice qualitied, fleshy feeder steers costing around $7.75 to $8. The only drawback to investment in stockers and feeders is the high cost of cattle, as corn is both plentiful and reasonably cheap and there is a great abundance of other feed in most all sections, while an infallible sign of scarcity of thin young cattle has been furnished by the demand for them that comes from all sections of the West. Whatever else happens, stocker and feeder cattle are not going to be cheap in any sense of the word. Few stock steers of decent killing quality are available at $6.75 to $7, most of the fair to good 600 to 700-pound stockers selling at $7.10 to $7.50, choice of like weights up to $7.65 and good to best 800 to 1,050-pound feeders making $7.60 to $8. Good light stock heifers sell around $5.25, desirable heavier feeding grades up to $6.25 and decently bred thin young cows $5.25 to $5.75.

FEEDERS.

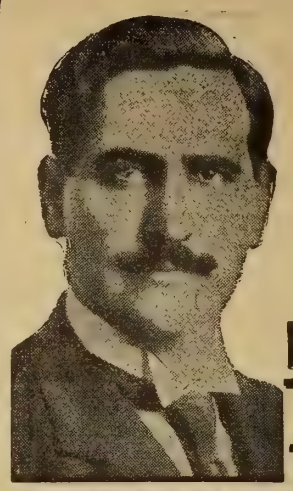
Selected, 900-1,150 lbs.	$7.65@8.10
Fair to good, 700-900 lbs.	7.10@7.60
Plain to good light	6.60@7.10
Feeding heifers, poor to good	5.65@6.25

STOCKERS.

Selected, 500-700 lbs.	$7.30@7.65
Good straight lots	7.00@7.25
Fair, plain lots, 500-600 lbs.	6.50@6.90
Common to plain mixed	6.00@6.35
Heifers, common to good	5.25@6.00

BUTCHER CATTLE SELLING WELL.

A healthy tone is being shown in the



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DON'T send me a dollar—*no, not one cent!* Keep your money—*let me take the risk.* And I'll do it willingly. Just tell me—*"Galloway, I'm willing to give your new 1913 spreader a good, fair trial at your risk." That's all I ask.* You'll get the spreader just as quick as I can ship it. Test it any way you want to. Then decide whether you want to keep it on this amazingly liberal proposition or send it back and let me pay the freight both ways. I'll put it squarely up to you and I'll accept your decision without a word or question. Now let me tell you briefly

Why I Am Making This Offer:

Now, I know that you can tell more about my spreader in a half-hour's actual use than you could by reading all the ads I ever wrote. So I'm just going to send you the spreader itself and let you be the judge. I want you to put it through every test you can think of. Take the toughest, tramped-down, unrotted slough-hay manure from the calfyard. If it's frozen, so much the better. Drive out into the field—get your team into a fast trot AND SLAM IT IN GEAR! Do that *again* and again, and AGAIN! Then, if you can find any fine, powdered manure, load it in and see how it handles that.

Notice how easy it is to load the low-down body. See how easily two horses can do the work it uses up three or four horses to do with the big, horse-killing types. Examine the exclusive patented features. It's the only double-drive spreader on the market having power furnished by BOTH wheels alike to move the load and run the beaters. It's the only roller-bearing spreader. It's the only endless apron, force-feed spreader. This feature alone makes the Galloway worth $25 more than any other spreader in the world. Notice how the pull between the wheels is brought entirely upon the reach, making it not only the lightest, but the strongest and most durable spreader known. Use the Galloway a whole month. If that isn't enough, say so, and I'll let you keep it for two or even three months. Then, if you can't honestly say—"Galloway, this is the best spreader in the world"—then I want you to ship it right back to me and I'll cheerfully pay the freight both ways, so that the trial won't cost you one single cent.

The Only Way Is the Galloway

Selling Direct From Factory to Farm!

If you do decide to keep my spreader, after having had the free trial, I'll put $25 to $50 in your pocket right at the start. You don't pay any middlemen's profits—you don't pay any salesman or dealer to help you make up your mind. The whole deal is just between you and me—AND YOU ARE THE SOLE AND ONLY JUDGE.

Now, Here's Something I've Never Done Before:

I'm going to make you a better proposition for 1913 than anything I've ever made. I'm going to tell you how you can get your spreader PARTLY OR ENTIRELY FREE! There's no work, no soliciting, no canvassing—I mean exactly what I say. Can't tell more about it here, but I'll tell you all the details in a personal letter when you write me.

Here's the Kind of Letters I Get Every Single Day

Gentlemen:—I received my spreader and came out home and got a neighbor to help me start it. We loaded a load of light manure and drove on solid ground. The machine went off without a hitch—just fine. So we drove back, and loaded a load of heavier manure and tramped it and drove to the field on a piece of soft plowed ground, and my team weighing 2325 lbs. just went right through with it. My neighbor said he could not see any difference in the draft when in gear or out. From what I have seen the No. 4 is as good as you say. Very truly,
Elk City, Kan. J. D. GRAY.

Gentlemen.—The more we use the spreader the better we like it. One of the most attractive things about it is its light draft; two horses take it easily, loaded full up, over soft ground. Yours very truly,
Wappacoma, W. Va. E. HERRIOTT & SON.

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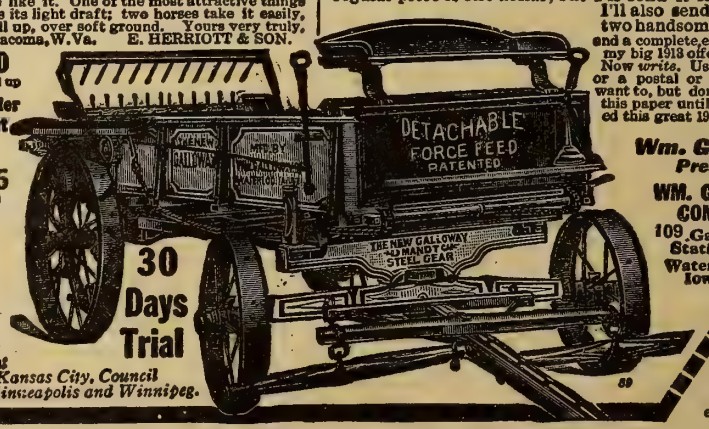

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I'll admit I'm interested in your new 1913 Spreader Proposition. Send me full particulars and your three books—including "A Streak of Gold"—all FREE.

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OHMSTEDE'S GREAT SALE

SHORT-HORNS AND D. S. POLLED DURHAMS

WILL BE HELD AT FARM, 2 MILES SOUTH-WEST OF

GUIDE ROCK, NEBRASKA, WEDNESDAY, MARCH 19th, 1913.

IN this sale will be offered one of the very choicest offerings of young Short-horn females that has or will be sold this season in Nebraska. They are of splendid conformation, well grown and thrifty. Many of them are safe in calf to Butterfly King, 2d prize bull at Nebraska State Fair, 1911. He is one of the good ones of the country. A few nice Short-horns and a few D. S. Polled Durham bulls will be listed. Some that are good enough to head any beef herd. We want to particularly impress you with the fact that there is not an old cow in this sale, or a poor one. Everything two and three years except three yearlings. Come to this sale. It is the day following Smith & Son, Tobias, Neb., and good train connections. There are 25 of these females and about ten bulls. Plenty of good ones. Mention The Homestead and write for the catalog today. Address

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WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser.

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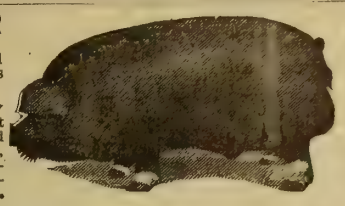


butcher cattle trade. Prices are from 10 to 25 cents higher on the medium to best grades of cows and heifers than late last week and on a remarkably high basis for this season of the year. The advance is most pronounced on good handy-weight heifers, which are scarce and in urgent demand. A spread of from $5.25 to $6.35 is taking most of the decent to good fat cows, but prime heavy fed cows have sold in carload lots this week as high as $7.25. Heifers selling around and under $6 are either on the stocker order or of very good breeding quality, most of the right good to choice fat heifers selling at $6.25 to $7.40, and choice to prime up to $7.50 to $8. Canner cows are selling largely from $3.75 to $4.15 and cutter grades from $4.25 to $4.60. Most bologna bulls are selling from $5.80 to $6.10 and beef bulls from $6.25 to $6.65, although prime beef bulls are quotable to $7 or better. Good stocker bulls sell up around $5.75, canners from $5 to $5.50. Calf receipts continue moderate and that trade is holding up well, but the season for increased supplies of vealers is near and many traders see breakers ahead. However, high lambs and hogs and the hunger of country buyers for strong-weight calves bred along decent beef lines are strengthening factors and will continue so. Good to choice vealers are selling from $10 to $10.25, fair to good light calves from $9.25 to $9.75 and most heavy calves from $6 to $6.50, though choice, fat, big weights are quotable to $8, high-class feeding steer calves to $7.50 and big, common, coarse calves range downward to $4.75 to $5.50. Quotations:

BEEF COWS.

Choice to prime fed cows	$6.50@7.25
Good to choice cows	5.85@6.50
Fair to good cows	5.25@5.85
Common to fair butcher cows	4.00@5.25

CANNERS AND CUTTERS.

Good to ch. heavy cutters	$4.35@4.50
Fair to good light cutters	4.15@4.35
Fair to good canners	3.90@4.10
Poor to fair canners	3.60@3.85
Old, thin, weak shells	3.10@3.50

HEIFERS.

Choice to prime heifers	$7.35@8.00
Good to choice fed heifers	6.90@7.35
Fair to good heifers	6.15@6.90
Common to fair heifers	4.75@6.00

BULLS.

Good to choice bolognas	$5.90@6.10
Light and medium bolognas	5.65@5.85
Canner and poor light	4.25@5.50
Good to choice butchers	6.15@6.40
Choice to fancy beef	6.50@7.00

VEAL CALVES.

Good to choice vealers	$10.00@10.50
Fair to good light vealers	9.25@10.00
Strong weight vealers	7.25@ 8.75
Good to choice stock calves	6.75@ 7.50
Inferior to fair hvy. calves	4.50@ 6.00

HOGS.

Packers are still running a bear campaign, but much of the time their efforts are abortive. They have an occasional inning, but meet few opportunities to "shoot the market to pieces," their favorite pastime at this season. Early in the week a new high level for the year was reached at $8.70 for light shipping grades, but the resultant 8-cent country market expanded supply and gave packers a chance to take off 20 to 30 cents. This led to putting away a lot of stuff behind padlocks because it could not be sold except at a loss and as country buyers suspended operations simultaneously a sharp reaction occurred, Friday's trade being 20 to 25 cents higher than the low spot of Thursday. During the week $8.30 to $8.60 took the bulk, light hogs claiming a slight premium, owing to scarcity and strong eastern demand. Fresh meat trade is making prices and provision values are considerably out of line with live hogs. Eventually the two markets will get together, but bearish sentiment regarding hogs is not audible, as packers are accumulating nothing and the winter packing season is over. A series of choppy markets is expected during the seeding period. Today's closing quotations:

Bulk of sales	$8.40@8.55
Mixed, 215-250 lbs	8.30@8.45
Mixed, 170 to 200 lbs	8.40@8.50
Medium weights	8.40@8.45
Light butchers	8.45@8.55
Heavy butchers	8.40@8.50
Light shipping	8.45@8.60
Heavy shipping	8.35@8.50
Heavy packing	8.20@8.35
Rough heavy packing	8.05@8.20
Throwout packing sows	7.70@8.00
Fair to choice light	8.35@8.55
Light-light, 135-165 lbs	8.25@8.50
Pigs, good to fancy	7.50@8.25
Pigs, inferior to fair	6.65@7.40
Boars, poor to good	3.50@4.75
Stags, subject to dockage	8.35@8.80
Government throwouts	5.00@6.75
Government pigs	2.50@4.00

Live mutton supply in the West this week has been about the same as the week previous and slightly less than a year ago, the six-point total being 210,000, against 211,000 the week previous and 219,000 the corresponding week last year, but prices have been subject to rather sharp fluctuations. While the supply figures do not look burdensome an analysis of the offering discloses reasons for the sluggish tons displayed by the lamb trade during most of the week. A vast proportion of the run, both here and at Missouri river markets, has consisted of lambs, 90 per cent or more of which have been of killing quality and have sold for slaughter. This, taken into consideration with the fact that lamb prices are averaging more than $2 per hundredweight higher than a year ago and that the period of meat abstinence on the part of a considerable portion of the public is on, and that weather conditions during a part of the last fortnight have been of a brand inclined to further the contraction of meat consumption, removes surprise at the sluggish and droopy tendency of the trade. Fat lambs had a 10 to 15-cent advance today on a meager supply, but still showed 10 to 15-cent declines from a week ago.

Matured mutton trade has not performed at all discreditably. Though sheep closed 25 cents lower last Wednesday they sold higher early in the week and at the finish, closing fully as high as a week ago and closer to fat lamb values than any preceding time this season. There is only one factor that seems at all likely to keep matured sheep from selling still closer to lambs. This is the probability of a continued liberal quota of heavy lambs in the run which would enable buyers to worry along with fewer sheep and yearlings than would otherwise be needed.

Sentiment in trade circles is still conservatively bullish on the sheep and lamb situation, although it is realized that conditions are such as to require careful attention on the part of feeders, and such as to create a period of very "choppy" markets unless the supply on feed is conservatively marketed. Bullish factors underlying the trade now are the very light supplies available in territory contiguous to eastern markets, assuring a good shipping demand at Chicago, the strong position of the cattle market, rapidly advancing hog prices and marked scarcity of lambs left in feeders' hands in most all sections other than Colorado and western Nebraska. These conditions are counted upon to maintain a high level trade if Colorado offerings are properly strung out during March and April. In response to a good market and weather conditions that favored an early fattening of much of the supply on feed, the February run of Colorado-fed lambs has been unusually heavy, but March receipts from that source will be liberal and if Colorado and western Nebraska feeders should have the unfortunate conditions of any extended period of bad weather to contend with at this juncture, the exodus from feed lots to market would doubtless be so rapid as to cause a sharp downward revision of lamb prices at market, and a probable scarctity of supplies in April and the fore part of May. March trade will depend largely on weather conditions. Quotations follow:

Lambs, good to prime handy	$8.35@8.75
Lambs, good to prime heavy	7.65@8.25
Lambs, fair to good natives	8.10@8.50
Lambs, common to fair	7.65@8.10
Lambs, culls	6.50@7.50
Wethers, good to prime	6.40@6.95
Yearlings, fair to ch. handy	7.25@7.85
Yearlings, fair to ch. heavy	7.00@7.50
Ewes, fair to best handy	5.75@6.40
Ewes, fair to prime heavy	5.75@6.40
Ewes, culls	4.00@4.75
Bucks	4.25@4.75
Lambs, feeders and shearers	7.50@8.25
Wethers, feeders	5.00@5.50
Yearling wethers, feeders	6.00@6.50

THE IMPORTANCE OF GOOD SIRES.

To the Editor of The Homestead:

This doctrine has been preached so often by the agricultural and live stock journals that its repetition ought to be unnecessary, but like some other forms of truth constant reiteration is required to insure acceptance. The correctness of this statement will be readily admitted by most stockmen, but while admitting its truth many do not act upon it. Experiment stations, corn clubs and fruit shows are emphasizing the necessity of good seed and faith in the correctness of this doctrine is what causes farmers to pay prices for prize ears of corn. Sentiment and enthusiasm may have influenced such sales to some extent at least just as these elements have been known to enhance the value of noted bulls or horses in public sales. But making proper allowance for these fictitious agencies of current prices, it is the belief in the ability of the noted bull or horse or the prize ear of corn to reproduce its excellent qualities that causes it to bring an exceptional price. The faith in the reproduction of inherited merit is the foundation of all agricultural improvement and progress.

With the knowledge of the value of good sires, it is very strange that so many farmers and stockmen are content to use scrubs or indifferent pure breds, for not all pedigreed live stock should be retained as breeders. Purity of pedigree may reproduce itself, but it does not always reproduce quality and excellence in form.

It is not the intention of this article to intimate that every farmer in buying a bull should strive to get some noted sire or prize winner. There are enough of these to supply all, but what each farmer should require and what his own interest demands is just as good a bull as he can afford to buy, and in making his selection he should remember that an indifferent one is dear at any price. This is true when applied to men who are breeding grade cattle and should appeal with greater force to those who have pure-bred herds. No cattle breeder ever achieved any more than ordinary success who did not have a high-class bull at the head of his herd, and the ownership of excellent sires explains the difference between success and failure.

A greater familiarity with Short-horns than any other breed of live stock naturally calls to my mind some of the noted sires of that breed. It is not the purpose to give any extended list of those noted bulls, though a long list could easily be given, but rather to name a few of both early and modern days. No bull of his day did more to improve the Short-horns of America than Imported Duke of Airdrie. His sons and grandsons were extensively used in the herds of Kentucky, Ohio and elsewhere and one of the most impressive of these sons and a great show bull withal, was Airdrie 2478 used with such signal success in the Rose of Sharon herd of Abe Renick. Among the later bulls of outstanding excellence as sires I will mention Gay Monarch, Sharon Marshall, March King, Choice Goods and Whitehall Sultan. Sons of the two last-named bulls now at the head of many prominent herds of Short-horns and the blood of no bulls of modern days has been more widely distributed.

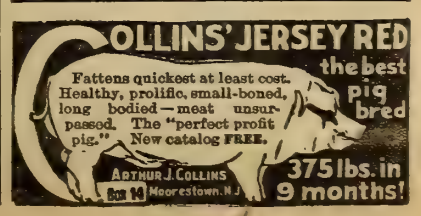
There are no means of estimating the value to a breed of such sires, and indeed to the cattle of the farms generally, for the blood of these bulls descends in various and ever-increasing channels from pure breds to grades. So the farmer who is raising grade cattle has every encouragement to use good sires and so produce a better and more profitable class of beef cattle. Short-horns have done much the larger share in laying the foundation and fixing the type of the beef cattle of the country and as the breed is better and stronger now than at any previous time in its history, it can be relied on by stockmen to aid in restocking the farms with a profitable class of beef cattle. In order to bring about this desirable result only bulls of a good type should be used. In raising steers it is quite important to have good sires.

B. O. Cowan.

The average price at which national forest timber was sold on the stump by the government last year was $2 per 1,000.

A comfortable home is the first essential in progressive farming. Farming cannot be a pleasure without it.

Spring has come because the first of March has, but it may be some time before winter is over.



DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Mar. 25, White Bros., Perry, Iowa.
Apr. 8, Dispersion sale, Walter Roberts Estate, Atlantic, Iowa.
Apr. 29, Association spring bull sale, Omaha, Neb.
Apr. 30, Association spring bull sale, Chicago, Ill.
May 2, Association spring bull sale, East St. Louis, Ill.
May 29, Otto V. Battles, Maquoketa, Ia.

Short-horn Cattle.

Mar. 18, H. Smith & Son, Tobias, Neb.
Mar. 19, John Ohmstede, Guide Rock, Neb.
Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 4, D. R. Hanna, Chicago, Ill.
Apr. 10, A. C. Shallenberger, Alma, Neb.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
June 10, Bellows Bros., Maryville, Mo.

Hereford Cattle.

Mar. 18, Geo. J. Anstey, Massena, Iowa (sale at South Omaha, Neb.)
Mar. 20, A. A. Hager, Avoca, Iowa.
Mar. 21, R. P. Clark, Brayton, Iowa.
Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Holstein-Friesian Cattle.

Mar. 18-19, R. B. Young, Buffalo Center, Iowa; McKay Bros., Buckingham, Iowa, (sale at Waterloo, Iowa).
Mar. 26, A. J. Podendorf, Logan, Iowa.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Mar. 18, Pabst Stock Farm, Oconomowoc, Wis.

Percherons, Belgians and Shires.

Mar. 20-21, North & Robinson Co., Grand Island, Neb.

Percherons, Shires and High Grades.

Duroc Jersey Swine.

Mar. 24, Smith & Rodgers, Springfield, O.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Wm. Graff, Minier, Ill., is offering some bargains in imported and home-bred Percheron and Belgian stallions as per his advertisement elsewhere in this issue.

Ralph Thurston, Osceola, Iowa, has an imported five-year-old black Percheron stallion on which he is naming a price in his advertisement appearing elsewhere in this issue of The Homestead. Mr. Thurston also has a number of other Percherons for sale at right prices.

A. G. Messer, Grundy Center, Iowa, is offering nine Angus bulls for sale in his advertisement that appears in the regular Aberdeen Angus column elsewhere in this issue. These bulls have quality and breeding and Mr. Messer is offering them at farmers' prices. They were calved from October, 1911, to May, 1912.

In the Duroc Jersey department of this week's Homestead will be found the advertisement of A. G. Messer, Grundy Center, Iowa, who has ten head of gilts of last March farrow. They are bred to farrow this March and April. They have length, bone, size and quality. Crimson Wonder Again breeding predominates in the herd.

Elsewhere in this issue appears an advertisement of Coe's humane pig forceps, put out personally by Chas. A. Coe, Atlantic, Iowa. Mr. Coe has had thirty-five years' experience in this line of work and the forceps advertised he states are the only self-adjusting forceps on the market. They are recommended by veterinarians generally.

Among recent sales of stallions Taylor & Jones, Williamsville, Ill., report the following: "J. W. Coffman, DeWitt county, Illinois, an imported Percheron; J. L. Ulrich, Stephenson county, Illinois, an imported Percheron; Keesse & Staples, Hamilton county, Iowa, an extra good imported Percheron, and also the Belgian stallion that was grand champion at the 1912 Illinois State Fair, and Lahr & Achenbach, Christian county, Illinois, an imported Percheron.

E. J. Augspurger, Pulaski, Iowa, is advertising red and roan Polled Durham bulls for sale. He has a three-year-old roan bull and several calves that are choicely bred. Write him, mentioning The Homestead.

A letter from A. Latimer Wilson, Creston, Iowa, says his last importation of stallions this season will leave Europe on March 5th and are due in his barns at Creston, Iowa, March 20th.

Sweany Bros., Kidder, Mo., write that they have sold the bred Duroc gilts they were advertising and have only fall pigs to sell. These are all immune and are choice. Note advertisement elsewhere in this issue and when writing them kindly mention The Farmer and Stockman.

Henry Field has started the publication of a monthly horse organ called "Field's Seed Sense." This booklet will be mailed monthly throughout the United States free to those interested and will be of great interest to all buyers of seeds and is written in such a way as to make the reading of it a pleasure. Mr. Field has made a remarkable career as a seedsman and we welcome him as a brother in the publishing business. We suggest that all our readers get on the list of his paper. His address is Shenandoah, Iowa.

With this issue Mrs. Chris Lionberger, Humboldt, Neb., starts an advertisement offering the very choicest sort of White Wyandotte eggs for hatching at the extremely low price of $1.25 per fifteen. This flock has been built up from the very best foundation material that money and judgment could secure and there is certainly no excuse for anyone to offer for not having high-class and profitable poultry when seed stock may be secured at this price. Our readers are perfectly safe in sending money with order for these eggs, and when doing so please mention this paper.

The King Separator Works, Buffalo, N. Y., whose advertisement appears in the dairy department of this issue, agree to ship one of their separators to any farmer or dairyman in the United States on ten weeks' free trial without a penny being sent in advance or a deposit of any kind made. It is their purpose to convince every prospective buyer of a cream separator by actual demonstration in his own home that it is most efficient and all that is claimed for it. The King separator is backed by the life-long guarantee which protects every customer. We suggest that our readers write them, mentioning that they saw the advertisement in this paper.

The Wisconsin Incubator Co., Racine, Wis., is making a remarkable offer on a large capacity hatching outfit. This offer includes one of the prize-winning Wisconsin incubators of 175-egg capacity, made of genuine California redwood with three walls, dead-air space between, copper tanks and boilers, self-regulating hot water heating system, thermometers, egg testers, etc. In fact, everything complete ready to use. Also one of the standard Wisconsin brooders with scratch yard and runway for very small chicks. Both machines are delivered, all freight charges paid, to any town east of the Rocky mountains for only $10.85. See advertisement in the poultry department of this issue and write the company, mentioning that you saw the advertisement in this paper.

Recently a man from the United States Department of Agriculture visited the Sutton Seed Company's plant at Mason City, Ill., without saying who he was and getting samples of their seed corn made laboratory tests on it for moisture and germination. His report shows an extraordinary high percentage of germinating powers. Last year this firm's supply was sold out by the middle of February and they returned $21,000 in cash that was sent them in orders which could not be filled without substituting, and which they would not do. A copy of a very interesting book published by them, entitled "Sutton's Book of Corn," may be obtained free by writing them at Mason City, Ill. See their advertisement that appears in the horticulture department of this issue.

The Malvern Horse Sale.

On Saturday, March 8th, at Malvern, Iowa, will occur the second annual public sale of registered Percheron and Shire stallions and mares made under the management of Fred Durbin, and it promises to be one of the best sales to be made this spring. There will be twenty head of registered stallions and mares in this sale, one pedigreed black Mammoth jack and forty head of high-grade draft mares, gelding, fillies and colts.

W. C. Seybold, Auctioneer.

Elsewhere in this issue of The Homestead is a unique advertisement calling attention to the ability of Col. W. C. Seybold, Harvard, Neb., as an auctioneer. The peculiar part of this advertisement is that Colonel Seybold will buy or sell anything, from a herd of pure-bred stock to a stock of merchandise. He has confidence enough in his ability as a salesman to buy these stocks and sell them again at auction and has made handsomely by so doing. This advertisement will not appear again, for some time at least, and those interested should address Colonel Seybold at once. Mention The Homestead when you write and kindly notice the advertisement.

Two Hundred Strawberry Plants for $1.

Strawberry plants that grow and do best are being offered by our old friend, J. L. Todd & Co. These people know about strawberry plants from A to Z. Their many years of experience in this business have taught them that great care must be exercised in packing the plants for shipment in order to insure successful planting when received by the customer. This firm spent considerable money in getting up a book to educate their customers in planting and growing small fruits, and they have printed several thousand copies of this book. Anyone sending $1 for their special collection of strawberries offered in this paper will receive a thirty-two-page catalog describing the fruit and, in addition, will also receive the book mentioned above. Address J. L. Todd & Co., R. R. 3, Des Moines, Iowa.

The Howell Riding Harrow.

A booklet issued by the Springfield Harrow Co., 1010 Jackson street, Springfield, Ill., containing a large number of fac-simile letters from users of the harrow is one of the strongest endorsements for any implement we have seen. This harrow is sold direct to the consumer, is of steel and malleable iron throughout, has no bolts or taps to lose, is built in three sections any or all of which can be raised or lowered at will, teeth can be set to any pitch, is close hitched, giving it an easy pull, has coiled spring shock absorbers and is guaranteed to give the most complete satisfaction. It is a complete riding harrow in every way, is flexible and adjustable to any kind of ground, sections can be raised to pass through any gate. Write for a catalog to Springfield Harrow Co., 1010 Jackson street, Springfield, Ill., for catalog and particulars, as per the advertisement elsewhere in this issue.

Hickory Cluster Farm Duroc Sow Sale.

Elsewhere in this issue of The Homestead will be found the advertisement of Smith & Rodgers, Springfield, Ohio, offering Duroc sows for sale on March 24th. They will sell forty-five head of high-class bred sows of the most approved breeding and quality. The sows are by Orion Chief, Mt.'s Col., Col. Pilot Wonder, Col. Beabout, Premier Col., Pal's Col., Royal E. Nuff, The Professor, Chief's Col., Instructor, Kelly's Pilot Wonder and many other noted boars. They are bred to Col.'s Pilot Wonder, grand champion of the Ohio State Fair, 1912; Mt.'s Col., grand champion of the Pennsylvania State Fair, 1912, and many other of the most noted sires of the breed. The sale will be held at Hickory Cluster Farm and better arrangements have been made for transferring guests from the traction line to the farm than ever before. The same kind of a fine dinner will be served and all visitors will be entertained in royal style. This is a golden opportunity to buy a few extra good sows to fill the place of those that have already lost their pigs at home. The offering is a very select one and many of them are sows that Smith & Rodgers intended to keep for their own use, but to make this sale an attractive one they have put these good ones in and they will be a credit to the Smith & Rodgers herd and stuff the best breeders in the land can use. H. E. Browning will represent The Homestead and bids by mail or wire should be sent to him in care of the firm. Colonels Igleheart, Reppert and Irwin, auctioneers. For catalog address Smith & Rodgers, Springfield, Ohio.

Galesburg Short-horn Combination Sale.

An attractive offering of Short-horn cattle will be made at Galesburg, Ill., Tuesday, March 25th, when practically fifty head from the herds of A. J. Ryden, Abingdon, Ill.; Chas. T. Nelson, Blandinsville, Ill.; Wm. Kreigh & Son, Knoxville, Ill., and H. G. Bowers, Elmwood, Ill., will be submitted. The gentlemen making this sale are among the best known and most reliable breeders in Illinois and they have selected for the coming event a very desirable lot of young, well-bred cattle. Mr. Nelson is contributing eighteen head, including some very attractive females and two good young bulls; also Lord Robin, a Clipper, and Hillsdale Baron, a promising prospect. Mr. Ryden sends forward ten head, seven cows and heifers and three bulls. Sons and daughters of Village Sultan are included in the lot, among them some attractive propositions. Mr. Ryden can be depended upon to put his cattle in the sale ring in a satisfactory condition. Kreigh & Son list ten head, including an exceedingly attractive May yearling bull calf by Village Sultan, out of Flora Knight 2d, that should attract attention sale day. Two of their females will sell with calves at foot by Village Sultan and all are bred to him or Juno's Royal. Mr. Bowers sells ten head, including some strong young bulls of the right kind. More detailed information regarding all these cattle will be given in later issues. This sale is the day preceding that of Rigg & Glasgow, at Galesburg, Ill., so that prospective buyers will have practically 100 head from which to make selections, a fact that should appeal to the public. There will be cattle to suit all wants and they come from reliable breeders. The initial advertisement appears elsewhere in this issue. Look it up and write for a copy of the catalog to A. J. Ryden, Abingdon, Ill., mentioning The Homestead when you write.

Shire Stallions and Mares.

Those of our readers in search of some high-class Shire stallions or mares will do well to correspond with Ed H. Magowan & Son, Gibbon, Neb. These gentlemen maintain one of the highest-class studs in the West and the stock for sale at this time is of this high order. Magowan & Son have purchased top stuff at all times and they are good stockmen, hence they have this sort to sell. Some choice young stock of good breeding ages are for sale and we would urge that those interested write at once for full prices and description. Mention The Homestead when writing.

Choice Short-horn Bulls and Heifers.

J. F. Egger & Son, Roca, Neb., have for sale just now a very choice line of Short-horn bulls and heifers of choice blood lines. The young cows of breeding age are bred to a choice young bull by the great Snowflake. He is one of the best sons of the old bull and comes of a long line of choice stock on the side of the dam. The young females are of a heavy-milking strain, with some fashionable Scotch tops. The prices on this stock are very low for the quality offered and those interested should be quick to grasp this opportunity. The future outlook to the cattle business is very bright and the time to purchase is now. Quick action in this matter will mean good profits. Mention The Homestead and adress as above. See advertisement elsewhere in this issue.

Steel Wheels Economical.

Their practical value is further vouched for in the experiences of those who find that wide-tired steel wheels do not cut the pastures, do not become "mired" in soft fields or muddy roads and do not cause the heavy pulls that "rutty" roads have always meant for narrow tires. An agricultural college in a recent bulletin said: "Low, wide-tired steel wheels will give any farmer better equipment for his work. Under all conditions of the field and nearly all conditions of the road it is estimated that broad-tired steel wheels pull from 30 to 100 per cent lighter than the narrow tires." See advertisement of the Electric Wheel Company, Quincy, Ill., elsewhere in this issue.

Wiles Makes Fine Sale of Red Polls.

Luke L. Wiles, Plattsmouth, Neb., recently sold to C. S. Tremewan, Gold Creek, Nev., one of the nicest lots of Red Polled cattle that has ever left Nebraska. Mr. Wiles' herd is one that has always been particularly high class and this draft, which included a full car load of nineteen head, eighteen females and a bull, were all good representatives of this good herd. Mr. Tremewan made this purchase after visiting several herds of good cattle, which speaks very highly for the class of stuff offered. Mr. Tremewan is to be congratulated on his good selection and the writer and The Homestead wish him the best of success with this fine young herd in their new home. Mr. Wiles also has for sale a number of choice young bulls, three of which are sired by a son of the noted Closson, and two are by his famous herd bull, Happy Jack 2d. This last named bull is certainly one of the greatest in the corn-belt states. He has never been shown in the show rings, but he certainly has "shown" that he is some breeder. For full particulars concerning this young stuff address Luke L. Wiles, Plattsmouth, Neb., and when you write mention The Homestead.

Ohmstede's Short-horn and Polled Durham Sale.

On March 19th, the day following the Short-horn sale of H. Smith & Son, Tobias, Neb., will be held a sale of Short-horn and Polled Durham cattle by John Ohmstede, Guide Rock, Neb. In this offering there will be about thirty-five head, twenty-five of which are choice young females. Every one of these females is of very desirable ages, as all except three that are yearlings are either two or three years old. They are thrifty, well-grown cattle and in nice breeding shape. They are also all of good blood lines, as they are descended from good foundation material and have been improved with the selection of good bulls. Some of the cattle carry a liberal percentage of Scotch breeding, and all are Scotch-topped stuff. There are a few Polled Durham bulls and a number of the young cows are bred and safe in calf to the second-prize Polled Durham bull at the Nebraska State Fair two years ago. These cattle are positively the right sort of stuff to buy and those of our readers who are looking for some good cattle should not overlook this opportunity of getting in and getting in right. The future of the cattle business is certainly in the very finest kind of shape and the man who buys now will have good reason to congratulate himself a little later on. The H. Smith & Son sale will contain a lot of good stuff and we would like to see a good crowd at that place and all those who do not get supplied at that place should certainly make the trip to the Ohmstede place, as the train connections are good and, as said before, a good offering will be presented. Send in your name at once for the catalog that it may be sent you as soon as out. Do this at once, as delay may mean that you will not receive it in time. Mention The Homestead when you write.

Rigg & Glasgow's Short-horn Dispersion.

Owing to a dissolution of partnership the Short-horn herd of Rigg & Glasgow, Sterling, Ill., will be dispersed at public sale at Galesburg, Ill., March 26th, the day following the combination offering of Messrs. Ryden, Nelson, Kreigh and Bowers. A dispersion sale is always the place to secure plums and the coming sale will be no exception to the rule. The senior member of the firm, W. B. Rigg, has long been known as one of the most reliable breeders in Illinois and the forty odd head of cattle that will be presented to the public for appraisal at Galesburg on March 26th are a credit to his judgment and his skill. From the standpoint of blood lines they are very attractive and their individual merit is in keeping with their breeding. The get of such good sires as Baron's Pride, Trout Creek Champion, Golden Charity Prince, Shenstone Albino, King Cupbearer, Penan Diamond and others are listed. It is not a speculative offering, but represents Mr. Rigg's best efforts for several years and should certainly meet with appreciation sale day. Eight cows will sell with calves at foot, the majority by the Forbes-bred Pride of Linwood, and all females of breeding age have been served by this bull. Ten outstanding two-year-old Scotch heifers are in the list and they form a decidedly attractive lot, as do eight yearling heifers. The prospective bull buyer will find something attractive at this sale. The two-year-old Sultan Archer is a sappy white bull and combines the blood of two champions, Whitehall Sultan and Ceremonious Archer, and is a bull that should be looked after sale day, as he is a breeding proposition. He has been used some in the herd. Other good young bulls are listed and some strong bull prospects sell with their dams. The cattle in the offering can be commended to the buying public without reservation. They will stand inspection and give satisfaction. The catalog tells the story.

Send for it today to Rigg & Glasgow, Mt. Sterling, Ill., mentioning The Homestead when you write. The advertisement appears elsewhere in this issue.

Many farmers hesitate about buying a modern and improved corn planter, believing the price is out of reach. Our attention has just been called to the fact that the Flying Dutchman planter, undoubtedly one of the best on the market, as it has a very extensive sale, is being sold to the farmers at the low price of $35. This planter is made of very good material and contains the latest improvements. It has two full sets of plates and can instantly be changed from edge drop to a flat-drop planter. Changes can be made to plant two, three or four kernels to the hill without stopping. We suggest that our readers who are interested write to the manufacturers, Moline Plow Company, Moline, Ill., for the Flying Dutchman booklet and mention this paper when writing.

Mudd and Williams' Poland Sale.

The sale of big-type Poland China hogs held by T. H. Mudd and W. E. Williams, at Silex, Mo., on February 18th, was one of the most successful sales held this year, when ages of the hogs listed are considered. On fifty head a general average of $48.93 was made. Each of these breeders contributed twenty-five head and the home buyrs, with those from a distance, absorbed the offering in two hours. The herd boars at the head of the herds these gentlemen maintain were admired by all who are partial to good, big, smooth hogs. Col. Jas. W. Sparks handled the sale to the entire satisfaction of all concerned. Following is a list of the sales:

Oltmanns Bros.' Stallions.

The recent importation of Percheron and Belgian stallions made by Oltmanns Bros., Watseka, Ill., adds a goodly number of fresh horses to their collection and places them in an advantageous position to care for the wants of the trade, so that buyers will find in their stables a decidedly attractive lot of young horses with bone, size and substance. The senior member of this firm resides at Leer, Germany, within a short ride of the French and Belgian horse-producing districts, and is thus in constant touch with the breeders there, giving him exceptional advantages in the way of buying. Oltmanns Bros. sell their horses at close figures, carrying on their business at the minimum of expense, which enables them to give buyers additional concessions, and they back their horses up with a guarantee so liberal that it is out of the ordinary. If you are in the market for a Percheron or Belgian stallion or a span of mares get in touch with Oltmanns Bros. Their advertisement appears elsewhere in this issue.

Good Short-horn Bulls.

W. W. Oliver, Guilford, Mo., proprietor of the Sunnyside Farm herd of Short-horn cattle, is advertising elsewhere in this issue three good young Short-horn bulls that are just of serviceable ages. He prices these at prices that should be attractive to those wanting good young stock bulls. They are sons of Merry Sultan, a Bellows-bred bull by their Whitehall Sultan bull, Chief Sultan. His dam was Merry Sylva, dam of the $1,060 Merry Goods. Two are out of cows by Count Ramsden, a good son of the two-time champion, Lavender Viscount. Mr. Oliver's bulls are thick, blocky fellows, are well grown and are reds with the exception of one that has just a little white. As he has used pure Scotch sires his herd is practically Scotch and the bulls he is offering carry 90 per cent or more Scotch blood. Mr. Oliver would like to have you come and see these bulls, as he knows they will please you. Guilford is on the Great Western railroad north of St. Joe, Mo., and is easily reached over this line or the Wabash via Conception, the junction point of the two roads. Note Mr. Oliver's advertisement elsewhere in this issue.

Homemade Creamery Butter.

A big problem for the dairyman has been solved in Owatonna, Minn. The results obtained with the Owatonna Home Creamery have proved that it is possible to make the finest grade butter at home with but little work. The machine responsible for the good work is a churn, a ripener and butter worker and gatherer, all in one. It sells at a price about equal to that of the ordinary churn. Butter made in it has taken first prize at the National Dairy Show in Chicago, Ill., and at a number of other shows through the country. For sanitary principles it has the highest type of construction. Butter can be made in it without the hands touching the cream or butter. While this machine is equal to the big creamery plant in every respect, it is made in all sizes, so that it can be used profitably by the owner of only three cows as well as the largest dairy herd. The ordinary farmer who milks from eight to a dozen cows can make from $400 to $500 more per year by making his own butter than by selling his cream. The president of this company, Harvey P. Gardner, has just issued a book, "Dairy Dollars," which makes interesting and instructive reading for every owner of cows. He will be glad to mail a copy free to anyone who will write him, mentioning this paper.

Luckhardt's Percheron Dispersion.

On next Wednesday, March 12th, L. H. Luckhardt, Tarkio, Mo., will disperse his stud of registered Percheron stallions and mares. Twelve mares and fillies, eighteen stallions and four Mammoth jacks are listed. The mares have been worked regularly and have been regular producers, as is shown by their produce in the sale. They are the big, drafty kind that weigh from 1,800 to 2,100 pounds. The mature stallions are ton horses that have proven sure foal getters and sire high-class colts. Remember the sale is next Wednesday and will be held in town in Travis' new implement building.

Stallions at Homewood Stock Farm.

The time is at hand when prospective stallion buyers must be making their selections for the coming breeding season, and they will find at the barns of the Homewood Stock Farm, at Homewood, Ill., a strong lot of imported and home-bred Percheron, Belgian and Shire stallions and mares from which to make their selections. Metz & Sons make their importations early in the season, so that when the heavy buying time approaches they have their barns filled with a lot of seasoned horses, thoroughly acclimated and ready for heavy work on the stand. Their last importation landed in October, so that buyers are taking no chances on securing any green, unseasoned horses. Their Percherons are blacks and grays, two and three years old, with size, substance and bone, many of them weighing well over a ton and not fat. Their mares are a strong lot of the approved brood mare pattern, nearly all in foal to imported horses, many of them in the ton class and all possessing plenty of size and weight. In addition to their imported horses Metz & Sons handle a large number of home-bred stallions and mares, not the speculative kind, but horses that have been secured from reliable breeders, many of them the get of imported horses they have sold and which they know to be all right in every way. Their Belgians are the right sort, selected with a view to getting the kind that will be most profitable to the American farmer, and their Shires, while they do not handle a very large number, are the kind that should be in demand. Metz & Sons back up their horses with a broad guarantee and invite the inspection of discriminating buyers. They are easy of access, being located on the main line of the Illinois Central railroad, twenty-three miles south of Chicago, with trains nearly every hour. Their advertisement appears elsewhere in this issue.

Percheron Stallions and Mares.

Elsewhere in this issue P. J. Eggers, Denison, Iowa, advertises some good Percheron stallions and mares for sale. He also has some good Belgian and Shire stallions that he is offering. He is making prices on these horses that will surprise you. Write him at once and kindly mention this paper. If possible go and see these horses.

The New Hudson Auto.

The new Hudson car, as advertised on page 2 of this week's issue, is a beautiful car. To illustrate how the car will stand the bumps and jolts of the road is the fact that before it was publicly announced it was given a 20,000-mile test, which consumed approximately nine months. During this test the car was driven at train speeds by a racing driver, whose services were secured for the purpose, and he endeavored to smash the car, if that were possible. He went up into the Allegheny mountains and through them from Pittsburgh to Philadelphia by the worst known roads—the passes against which motorists are warned, unless they are expert drivers and their cars are built for the roughest usage. The car conquered the mud of Illinois, the sand of Michigan, the sticky gumbo of Missouri and Iowa and the entire test covered the worst road conditions of ten states, the Allegheny mountains and southern Canada. When the long trip was finished it was equivalent to 40,000 miles of the average farmer's driving, or equal to four years' use in his hands.

A Great Company.

A statement contained in the page advertisement of the Chicago House Wrecking Company under the head "Explanation" will undoubtedly prove interesting to our readers at this time, since the month of March is the time when our readers figure very largely on repairs on buildings, fences and homes and, in fact, all around the farm. The statement is as follows: "Our mammoth plant covers forty acres and our list of customers is numbered by the hundreds of thousands and include people from every walk in life. We sell practically everything under the sun at unbeatable prices. We buy our goods at forced sales, taking advantage of sheriffs', manufacturers' and auction sales. In this way we can sell brand new, clean, high-grade goods at prices in many instances even less than the cost of manufacture. Our stock includes everything for the farm, home and personal use, building material, lumber, roofing, doors, millwork, fencing, hardware, plumbing, heating apparatus, furniture, household goods, clothing, shoes, in fact, every single article needed to clothe a man, woman or child; sporting goods, harness and vehicles, jewelry, sewing machines, groceries, etc. You cannot think of a single manufactured article but what we can supply it to you at a saving in price." We feel sure that our readers who are in need of anything handled by the Chicago House Wrecking Company will be well pleased with the treatment they receive. This company has advertised with us for a number of years and we have not had a serious complaint concerning the character of the goods they put out.

Good Mammoth Jacks.

Delerling & Otto, Queen City, Mo., are offering at private treaty all their prize-winning jacks and jennets with a great string of as good fifteen to sixteen-hand high jacks. All their stock is young, ranging from two to five years old. As these gentlemen pay particular attention to bone, quality and strong constitutions they are good men to buy from. Note their advertisement elsewhere in this issue and when writing them kindly mention this paper.

Battles Announces an Angus Sale.

Otto V. Battles, Maquoketa, Iowa, announces a sale of Aberdeen Angus cattle for May 29th. This herd has probably won as many ribbons during the past five years as any other herd and the announcement of a public sale from this herd will interest every breeder of Aberdeen Angus cattle in the country. About forty head of yearling and two-year-old heifers and cows and a few young bulls will make up the offering. Practically every animal in the sale will be of show-yard character. Full particulars will appear in The Homestead in due time.

Exit the Grindstone.

If there is one field more than another that the farmers of today are backward in it is tool sharpening. The old grindstone is still a standard factor on most farms and is no different than the one in use by our grandfathers seventy years ago. The operator, unless experienced, is likely to spoil more tools than a modern machine is worth. Of late years there has been put on the market a sharpening abrasive that has proved itself many times superior to the grindstone and emery. It cuts many times as fast, leaves a smooth, fine edge, and without any danger whatever of drawing temper. This satisfactory sharpening substance for steel is "Dimo-Grit," manufactured by the Luther Grinder Mfg. Co., 583 Stoh Bldg., Milwaukee, Wis. They not only guarantee the machine for five years, but agree that if any machine is found unsatisfactory for any reason whatever, the money will be refunded any time within one year. This grinder has been adopted by railways and every department of the United States government that uses edged tools. The government reports show that only one-twentieth of the time is required to sharpen tools on this wonderful machine as on the ordinary grindstone.

Anoka Farms' Short-horn Sale.

The annual offering of Short-horn cattle at Anoka Farms, Waukesha, Wis., will take place on Wednesday, April 2d. For this event Mr. Harding has selected forty-five head, twelve bulls and thirty-three females, all but six of Whitehall Sultan line of breeding. Particulars regarding this offering will be submitted in succeeding issues. File your application for a catalog with F. W. Harding, Waukesha, Wis., mentioning The Homestead when you write.

Sane Cholera Preventive Methods.

The entire corn belt is agitated over the great loss of hogs due to cholera. As has already been pointed out in this paper, the best way to save hogs from cholera is to eliminate the chance of their taking the disease. Nine-tenths of the trouble that occurs among hogs is due to a running down of the animal's constituion on account of worms. There is no system of treating cholera that will cure a hog in this condition unless the worms are first eradicated. Attention, therefore, must be given to more sensible treatment if the heavy losses by cholera are to be stopped. There are many remedies on the market whose manufacturers advocate that they are sure worm exterminators. Naturally the need for such a remedy has brought many new products on the market within the last year or two. Utmost care should be taken by hog men in selecting a remedy. One that has been on the market for years and which has demonstrated its efficiency by building up an immense volume of sales, such as the Columbian Stock Powders, will undoubtedly be safest. This remarkable remedy has made almost an unparalled success in the corn belt, and if universally used would have done much to save the many millions of dollars that have been lost. These powders have been used successfully for more than twenty-five years, and it is said of them that they never fail to expel all the worms and invariably do it within twelve hours after feeding. Special attention can be called to the remedy at this time on account of its excellency as a help to brood sows. It keeps them in good condition, insures an abundant flow of pure milk and eliminates the feverish condition which results in poor pigs. The Columbia Hog & Cattle Powder Company, 1433 Genesee Street, Kansas City, Mo., have a half-page advertisement elsewhere in this issue and it would be well for those interested to look it up.

Taylor Offers Short-horn Bulls.

A recent communication received from C. W. Taylor, the well-known Short-horn breeder, Abilene, Kan., states that he is entirely sold out of females at present, but has on hand four toppy Scotch bulls about a year old. Three are red, while the other is a good, heavy-boned roan and all should find homes in good herds. He also has for sale at this time six Scotch-topped red bulls coming one year old in April, May and June and eight red bulls coming two years old from April to June. If in the market for a good young bull write or call on Mr. Taylor at once and inspect the stock. Do so at once, as they will not last long at the prices at which they are being offered. See advertisement and when writing kindly mention The Farmer and Stockman.

Live Stock in Condition.

Animals which have been confined during the winter need something to put their skins and coats in good condition and to kill lice, fleas, etc.; also to cure mange or other diseases which they may have contracted. No other product on the market today will put your animals in good condition more quickly or may be used with better results as Kreso Dip No. 1. It is used on all live stock for killing lice, mites, fleas and ticks and curing their common diseases. It is also invaluable around the poultry, both for putting the birds in good condition and for disinfecting the coops. It is sold by all druggists and is not at all expensive. If our readers will write to Parke, Davis & Co., Dept. of Animal Industry, Detroit, Mich., they will send free valuable booklets on the uses of Kreso Dip No. 1 for all live stock and poultry.

Visiting an Automobile Plant.

The manufacturers of the Studebaker automobile are bringing their plant to our readers through a series of advertisements in our columns. This is the first time anything like this has been attempted, and it will undoubtedly be the means of bringing the buyer and the automobile into a closer acquaintanceship. The Studebaker corporation has taken the farmer entirely into its confidence, not neglecting to explain a single phase of automobile manufacture. Even a casual perusal of these articles cannot fail to impress him with the mechanical magnitude of the great Studebaker organization, which builds its cars entire in its own plant and builds them so well that the farmer who buys one has as much faith in Studebaker automobile quality as he has in the quality that has made Studebaker farm vehicles famous. The third article of this series appears on page seven of this week's issue of The Homestead.

Good Culverts.

In road making, about which much is heard these days, the use of scientifically tested material should prevail against those of indefinite specifications. The thoroughly trained and experienced engineer has a professional pride in the selection of the former, while the latter are the natural outcome of a regime of political appointees. For example, the modern highway expert knows that iron of the highest possible degree of purity is far more resistant to rust than the ordinary product and that culverts, bridge floorings, etc., made from it give promise of two or three times the actual service. He knows further that the difference between purity and impurity in iron and steel is measured by hundredth parts of 1 per cent. It is not enough that a metal should be vaguely recommended as "pure and rust-resisting;" it must conform to certain standard specifications based on the characteristics of the best obtainable material and stating an absolute minimum of foreign substances allowable. This subject has assumed considerable importance of late in view of the increasing number of installations of corrugated culverts, these being preferable in many regions to any form of masonry. In this connection we wish to call the attention of our readers to the advertisement of the National Corrugated Culvert Mfg. Co., Cincinnati, Ohio, appearing elsewhere in this issue.

An Individual Combined Power and Light Plant.

For an outlay of a comparatively small sum the farmer of today can procure a complete electric lighting and power plant. He will have an engine to pump water, grind feed, fill the silo, run the thresher, raise the hay, grind his tools and blow his forge. This same engine will, at odd times when not engaged in any of the above tasks, run a dynamo from which a set of storage batteries are charged, the latter furnishing electric lights in the barn and house when needed. On the possibility of all this has been brought about by the strides which have been made in the development of the apparatus employed to accomplish it. Take the storage batteries now on the market, the "chloride accumulator" for instance, which makes electric light practicable on the farm without interfering with the use of the engine for other purposes. This silent and unobtrusive item of the plant needs practically no attention whatever—simply receives the electricity from the dynamo, say at the noon hour or at any time it is convenient, and stores it up for use later when needed. At the barn, when the stock is being put up for the night; in the house for the evening's reading and recreation, and again in the dark early morning light can be had instantly wherever wanted at the turn of

NEXT WEEK'S SALE PROGRAM

Monday, March 10	Jacks and Jennets, G. C. Roan, La Plata, Mo.
Tuesday, March 11	Poland Chinas, C. L. Thuirer, Fostoria, Iowa. Poland Chinas, M. F. O'Hern, Barnum, Iowa.
Wednesday, March 12	Poland Chinas, James Lawler, Clare, Iowa. Percherons, L. H. Luckhardt, Tarkio, Mo. Aberdeen Angus, Isenbarger Bros., Battle Creek, Ia. Hampshires, H. D. DeKalb, Council Bluffs, Iowa. Horses, etc., Chas. Irvine, Ankeny, Iowa. Poland Chinas, W. J. Crow, Webb, Iowa.

a switch. In this connection the advertisement of the Electric Storage Battery Company, Philadelphia, Pa., which appears on another page in this issue will be found interesting. When writing them mention this paper.

Three Centuries Old.

Very few firms can boast of having been actively engaged in business in three centuries (1784-1913), so when we received, a few days since, the new spring catalog of the D. Landreth Seed Company, who own the Bloomsdale Seed Farms, at Bristol, Pa., we found our perusal of their handsome book interesting. The accumulated knowledge and experience of a concern such as theirs deserves the recognition of those who wish to get the worth of the money which they devote to the purchase of seeds, plants and bulbs. The advertisement of this company appears elsewhere in this issue and we suggest that our readers look it up.

Choice Duroc Gilts Bred.

Chas. L. Taylor, Olean, Mo., breeds a superior type of Duroc, as has been proven by the winnings at the Missouri State Fair and the American Royal. He is now pricing right a superior lot of gilts by the prize-winning Col. Wonder, a son of Crimson Wonder 3d. These are bred to Crimson Col. I Am by B. & C.'s Col. A better combination of blood lines is not found and as each of these boars are noted for their size and quality the offspring should be exceptionally good. A limited number not by Col. Wonder are bred to him. Note Mr. Taylor's advertisement elsewhere in this issue and when writing him kindly mention The Farmer and Stockman.

Schmale Offers Choice Poland Chinas.

Herman Schmale, DeWitt, Neb., is offering for quick sale a choice lot of real big-type Poland China fall boars and gilts. Readers of this paper who are going to need a boar to breed for fall litters, or that wish a start in choice Poland China hogs, and wish to get started before hogs get as high in price as they are bound to do soon, will do well to order some of these boars and gilts at once. It would be a good plan to order a pair or more of these gilts and one of these young boars and start a good herd. They are of the right age and size to breed for early fall pigs and the express charges will not be great on them if ordered at once. The breeding is of the very best to be had of the real big stuff, and the prices are away below what such stock usually sells for. Mention The Homestead and write for full prices and description at once. Mention The Homestead when you write.

Ehlers Offers Short-horn Bulls.

F. H. Ehlers, Tama, Iowa, is offering Scotch Short-horn bulls for sale in this issue of The Homestead. He has a two-year-old bull named Lancaster Sultan, sired by Missie Sultan and out of a Lancaster cow. This is a good top bull with an excellent spring of rib and will be sold worth the money. One of the best bulls Mr. Ehlers offers is a son of Scotch Sultan, the prize-winning son of Whitehall Sultan. This calf is out of Red Missie, coming from the well-known Mar Missie family. This calf is a thick, low-down fellow and will make someone a valuable herd bull. There is a good September yearling sired by Rob Roy, a Campbell Mina and out of Lady Anne 16th by Imp. Redlight. These bulls are worth the money asked for them. Mr. Ehlers would also sell cows or heifers of the best Scotch breeding at right prices. He also has a few seven and eight-months-old bulls sired by his great herd bull, Roan Knight 2d. See the advertisement on another page and write him, mentioning The Homestead.

Drybread & Sons' Duroc Sale—Last Call.

This will be our last opportunity to call the attention of our readers to the great sale of Duroc Jersey bred sows to be held by Samuel Drybread & Sons at the Star Breeding Farm near Elk City, Kan., Monday, March 10th. The offering of fifty head, consisting of fifteen one and two-year-old sows, fifteen fall yearling gilts, fifteen spring gilts and five young boars, is royally bred and contains many splendid individuals. It is made doubly valuable from the fact that it has been given the simultaneous treatment against disease and is immune from cholera. The blood of such well-known sires as B. & C.'s Col., McNeil's Model, Buddy K. 4th, Ohio Chief and Red Wonder is prominent in the offering. A majority of the sows and gilts are bred to that splendid breeding boar, Model Top 77405, a son of the great Golden Model. This offering of sows, bred the way they are and safe from disease, should certainly appeal to Duroc Jersey lovers, and all those looking for brood stuff of the right type should attend this sale. If unable to attend any bid sent to John C. Halderman, who will represent this paper at the sale, will be carefully looked after.

Cochran & Sons' Short-horn Sale.

C. G. Cochran & Sons, Hays, Kan., are bringing to Salina, Kan., for the sale which will be held on Friday, March 14th, a class of Short-horn cattle that should be appreciated by all who like cattle with scale, quality and bred character. They have always used superior herd bulls noted for thick, heavy-fleshing quality and this has made their herd superior in this respect. The cattle come to the buyer in just good prime breeding condition, so that they cannot fail to do well in the purchasers' hands. Cochran & Sons have always placed individual merit above all else when buying herd headers or females for their herd and have looked to the pedigree after finding the animal that was of the type and conformation they desired. By so doing they have built a superior herd. Some of the very choicest of Scotch and pure Bates breeding is found in the pedigrees and as they have not followed fads and fancies in breeding their herd is free from inferior animals with choice pedigrees. The bulls they are putting in the sale are just of serviceable ages and are strong constitutioned fellows with plenty of bone. The females are a breedy lot selected from a large herd with the thought of offering the public as good as they produce. The sale is held at Salina, Kan., on account of the excellent railroad facilities over several lines. A. F. Cochran, who manages the sale, will gladly send you a catalog and complete information of the offering. Note advertisement elsewhere in this issue and when writing kindly mention The Farmer and Stockman.

Lefebure's Belgians.

Henry Lefebure, the well-known horse importer of Fairfax, Iowa, informs us that he is in receipt of a cablegram from Belgium announcing that his spring shipment of Belgian draft stallions was shipped from Antwerp on the twenty-second. They will be due at Fairfax about March 15th, which will be in ample time for his April and May trade. They consist of three to five year olds, of all the popular colors, and their quality needs not be questioned, for he imports none but choice, strong, heavy-boned and sound horses. His barns are full of stallions at the present time, all of the best quality and in the pink of condition. Several mammoth roans weigh from 2,250 to 2,400 pounds and he has a barn full of coming three year olds that weigh 1,800 to 2,000 pounds at the present and not a matured horse that weighs less than a ton. He also keeps a few choice Percherons, but men wanting Belgians are always delighted at the Belgian horse show to which they are treated when there. Visitors will not find any empty stalls until in May or June; the supply never runs slow. Illustrated catalog will be sent free to all who write, mentioning this paper. See advertisement elsewhere.

Kreischer's Herefords and Polands.

E. W. Kreischer, Mt. Vernon, Iowa, offers Hereford bulls and females for sale. He has six young bulls, three by his great show bull, Albany, and the balance by Dale's Eclipse, a grandson of the $10,000 Dale. There is one calf by Young Albany and out of Spray by Distributor that is a show calf. He was calved in July and is one of those thick, deep, good-quartered fellows that will develop into a high-class herd bull. The others are good calves and will not last long at the price. A few cows and heifers that are granddaughters of Disturber and Defender, and daughters of Advancer, Success, Norway Chief and Wilton would be priced, and everyone is bred to Young Albany, the great show bull Mr. Kreischer recently sold to Bell Bros., Nora Springs, Iowa, for $500. Cows bred to such a noted bull as this should prove exceptional money makers in any herd. Mr. Kreischer has one of the good herds of Poland Chinas in the corn belt, the average of his recent sale indicating what breeders thought of the offering. Fifty head sold for an average of $76 and the top was only $115, which indicates that it was an exceptionally even sale and the offering was uniformly good throughout. If you want a Hereford bull or some females write Mr. Kreischer as per his advertisement, mentioning The Homestead.

American Aberdeen Angus Breeders' Association Spring Bull Sales.

The American Aberdeen Angus Breeders' Association has claimed the following dates for its annual spring bull sales: April 29th at Omaha, May 1st at Chicago and May 2d at East St. Louis. About enough topnotch entries from the best herds in the country have been received for the Omaha sale. A few more good entries are needed for the Chicago and St. Louis sales. Members of the association who are thinking of consigning bulls to any of the sales should advise Secretary Gray at the Union Stock Yards, Chicago, Ill., at once. Last year many good entries were barred from sale because application for space was made too late. The sales last year were very successful and those who consigned the bulls were well pleased with the prices obtained. The auction form of selling bulls under the auspices of the association has become very popular. The strong demand for bulls this season indicates that bulls will bring good prices at the sales. The business of the association so far this year shows an increase of 35 per cent and is steadily increasing. The increase is chiefly from registration fees and new members being enrolled. Breeders from every part of the country report that the bull trade is exceptionally good. Breeders seem more jubilant over the outlook than has been in evidence for ten years. Every breeder who has animals to record should give the same attention at once, so he can take care of his spring trade.

Choice Scotch Collies.

We recently received this interesting letter from A. A. Martin & Son: "No dog equals the Scotch Collie, either as a faithful companion for children or for service about the farm. They are one of the most affectionate of dogs. He is so full of business that he feels the responsibility of the entire farm, keeping a constant vigil day and night. A well-bred Collie will adapt himself to stock of all kinds, even to informing his master of unusual conditions around the premises at any or all times. Certainly blood tells. Our kennels are composed of Collies of the best blood that can be purchased. Their breeding is close to such dogs as Alloway Ambition, that won at Crystal Palace, London; Edinburg; Airdirie; Airdrie, Dunoon; Paisley; Aberdeen, and Shettleson, Scotland, and Belfast, Ireland. Glentana Bounder is a winner of over sixty firsts in Scotland and a full brother to the great champion, Anfield Model. The Collie Club of England recently adopted his head as a vignette to go on all official printing. He is famous for his beauty and a noted sire. Our kennels are very rich in the blood of this dog. Our blood lines also include Champion Irmskirk Emerald, who sold for the highest price ever paid for a dog. Buckler, who stands at the head of our kennels, has eighteen champions in five generations, including Champion Anfield Model twice, Southport Student, Wishaw Clinker, Parbold Piccolo and many others of equal note. Lady Ambition also has Champion Anfield Model, Champion Emerald Eclipse, Wishaw Leader and about twelve or fourteen others. The other bitches are equally well bred." For full particulars and prices on the young stock for sale mention The Homestead and address A. A. Martin & Son, Box 107, R. 4, Lincoln, Neb.

Irvinedale Farm Sale.

On March 12th Chas. Irvine, Ankeny, Iowa, will hold a public sale which shall include pure-bred Belgian horses, draft horses and Short-horn cattle. There will be two yearling Belgian stallions that have been prize winners at the Iowa State Fair and at the Interstate Live Stock Show. They are both big fellows, from big ancestry and with wonderful promise of development. Mr. Irvine has gotten together a very large number of high-grade draft mares for this sale and believes that he is offering a consignment that farmers generally will appreciate. The sale of Short-horn cattle contains a number of excellent individuals, mature cows and young bulls. In addition, a considerable amount of other property will be disposed of, chief among which, perhaps, is a good five-passenger Mitchell automobile. Any additional information concerning this sale may be obtained by writing to Chas. Irvine, Ankeny, Iowa. Mr. Irvine will be glad to meet buyers at Ankeny before the sale and return them after the sale without cost.

Council Bluffs Hampshire Sale.

In again calling the attention of our readers to the public sale of Hampshire hogs which H. D. DeKalb, Dekalb, Ia., will hold at Council Bluffs, Iowa, on Wednesday, March 12th, we feel that we are doing them a service and one which they will certainly appreciate on sale day. Mr. DeKalb has one of the largest herds of this breed of hogs in Iowa, if not, indeed, the very largest. Better than that, however, he has one which carries the highest degree of breed perfection and, at the same time, one which in the individuals conforms to the most approved type of economical and profitable pork-making animals. This type has been gained by a judicious commingling of the most prominent and valuable strains of Hampshire blood. It is doubtful if there is anywhere in the country today a herd which can boast an equal number of great big, smooth, well-formed, mellow brood sows as that which finds its home on Mr. DeKalb's farm. Sixty head have been cataloged for the sale in question. All but ten of them are mature animals. That is, yearlings and two year olds, and fully half of them are tried breeders. They are in perfect thrift and excellent health. There has never been any disease on the DeKalb farm, so that buyers may be assured of protection in the animals they purchase. There are a choice lot of young sows in this sale which should be looked after by those who have an eye on the coming show season. In general make-up, excellence of feet, broad, well-arched back and neatness of finish, the consignment stands preeminently above the average sale offering. These sows will all have been bred for April and May litters. They carry show-yard strains and are in every respect desirable. Catalogs may yet be obtained by writing to H. D. DeKalb, Dekalb, Iowa. It should be remembered, however, that the sale will be held at Kiel's barn at Council Bluffs, Iowa. Any reader of this paper who is unable to attend the sale may forward bids to M. T. White, who will be in attendance and who will be glad to execute any commissions. The advertisement will be found elsewhere in this paper.

The North & Robinson Horse Sale.

In the opinion of the writer one of the greatest lots of draft horses ever offered in Nebraska will be put up for sale by North & Robinson, Grand Island, Neb., on March 20th and 21st. We have seen the greater part of the offering that is to be sold, and we must say that for real big, drafty, sound horses, that they are the equal or the superior of anything that we have seen sell in a long time. More big, smooth, ton mares will be in this sale than any sale we have yet attended, and there are a great many that weigh well over that mark. Twelve of these mares have weighed sixteen tons. Some weight, but the scales say that they do it. One of these mares weighs now, and by sale time will probably exceed 2,400 pounds and several of them weigh 2,300 pounds. These mares are in good condition, but they are not fitted as for a show and would carry quite a little more weight, should one care to put it on them. Among these big mares are the first and second-prize mares at the Nebraska State Fair last season. They are all bred to topnotch stallions and if they are not good property, then we know of nothing in the horse line that will be. The writer has long known the men making this sale, and we know that the horses that they have offered for sale have always sold, and we are also confident that every horse that enters the sale ring at this forthcoming sale will change owners. These gentlemen have the greatest horse-breeding establishment that we know of, and they raise horses to sell. A great part of this offering is home bred and they are the equal of anything that we have seen from the old country. They should be better and we confidently believe that they are. They are raised under better conditions as regards climate, for there is no better climate for horse growing than central and western Nebraska. The feeds are right, the climate is right and they should and have developed a better constitution than horses raised under less favorable circumstances. We would like to see a lot of Homestead readers at this sale. We are making a special appeal to them, for they are all close friends of the writer and we would not advise them wrong for anything in the world, and we just want you to take this piece of advice. Attend this sale; it is of importance to you that you do. These horses are right and they will positively sell at the prices you set. Be on hand; it is certainly to your interest. For further particulars address North & Robinson, Grand Island, Neb., and mention The Homestead when you write.

W. C. Baughman, Pulaski, Iowa, is offering a few imported mares and fillies for sale in his advertisement that appears elsewhere in this issue. The mares are in foal to Imp. Holdebert, a government stallion of France. They are all grays. He also has five coming three-year-old imported and home-bred stallions. He invites those interested to visit his barns and inspect the stock.

Elsewhere in this issue of The Homestead will be found the announcement of William T. Trotter's postponed jack and jennet sale, which is now to take place at Mount Ayr, Iowa, on March 13th. The offering will consist of fifteen jacks, all broke and all big black fellows. There will also be fifteen extra large jennets, all bred, and none of them over eight years old. The sale will start at 12:15 and every animal advertised will be sold. Mr. Trotter requests those interested to come the day before the sale and inspect the stock.

O'Hern's Poland Sale—Last Call.

A sale of Poland China sows bred for April litters and some for later ones that has some good sows in it is that of M. F. O'Hern, Barnum, Iowa, Tuesday, March 11th, the day preceding the sale of James Lawler, Clare, Iowa, a few miles to the north. It is the first sale that has been held by this man. There will be a collection of useful sows and on account of the date of the sale it will be full of good bargains for anyone. The breeding of the sows is given in the advertisement elsewhere in this issue and it will be seen that the foundation stock was chosen from some of the good breeders of the country. Get some of the catalogs and send along some bids for the stuff if it is not possible to attend the sale. Send them to Ray L. Gribben, Homestead representative, who will attend the sale. Address for catalog M. F. O'Hern, Barnum, Ia.

Lawler's Last Call.

James Lawler, Clare, Iowa, holds his postponed sale of bred Poland China sows at his farm near Clare on Wednesday, March 12th. These sows are by boars that carry the good lines of the big-type strain and one of them, Miller's Choice, is right at the top of the big ones in the size he shows. The other, Chief Price A., is as well bred along the same lines, and though not quite as large, is still big and has some good gilts in this herd to show for his powers as a sire. The most of the sows are bred for April farrow and can be handled by the farmer to good advantage. They are in good, thrifty condition and can be depended upon to do well for the men who may buy them. Write for the catalogs and then get ready for the sale. The farm can be reached either from Barnum, on the Iowa Central, or Clare, on the M. & St. L. Address James Lawler, Clare, Iowa. Ray L. Gribben will attend the sale for The Homestead.

Thuirer's Poland China Sale.

Remember the sale of Poland China bred sows to be held by C. L. Thuirer at his farm near Fostoria, Iowa, Tuesday, March 11th. There are some choice attractions here that would have done well in any of the earlier sales. Many of them are sired by one of the best known of the herd headers of this section, Colosso. He was a prize-winning pig at the Minnesota State Fair the fall he was shown and sired a lot of pigs with more smoothness than is usual in this type. His offspring are mated with Thuirer's Big Orange, a son of the smooth Crow's Kind, which will put good bone on a quick growing. This has been proved by the work he has already done in the herd, and there will be sows in the herd that are being kept which will more than bear this statement out. Two more are unusually good sows, spring gilts, are listed for this sale, one by Smooth Giant and the other by Big Black Jumbo, and these are worth looking up by any good breeder. They are the best sort of bargains. The sale includes five matured sows, seven fall gilts and twenty-eight spring gilts, all good ones. Write for the catalogs now and take off to come to the sale and get some of this good stock. Write, mentioning The Homestead, C. L. Thuirer, Fostoria, Iowa. Ray L. Gribben will attend the sale for this paper.

Crow's March Sale.

W. J. Crow, Webb, Iowa, holds on March 12th a second sale of bred Poland China sows, and among the bunch that will go through the ring are some of the good sows of the year. At his first sale, held in a blizzard in February, he sold an offering that was one of the best in the northern part of the state, and this lot is the same sort, except that they are bred a little later and will farrow at a time when anyone can afford to buy, as the farrowing time comes when the sows can be handled with very little trouble. They are sired by the good boar, Crow's Kind, giving them smoothness and good bone, and are the sort that mature early, grow big, and those who have bought from this breeder have always gotten sows that have done well under the new conditions they have been removed to. Some are by Big Surprise, another smooth, big boar of the more practical type. The young service boars are as fine prospects for the top sort of herd boars as one sees in any herd. The youngest of the lot, Brilliant, a June pig, looks more like a real boar for his age than any boar that we have seen this season. Here is one of the best chances to go to a sale and get sows that have lots of size and smoothness, that have large litters and are profit makers at fair prices that will come this season. Write to W. J. Crow and get his catalog of

the sale and plan to be present. Address Mr. Crow at Webb, Iowa, mentioning The Homestead.

H. Redenius, Rushmore, Minn., is advertising home-bred and imported Percheron stallions and mares from $200 to $900 each. See advertisement on another page.

A. J. Podendorf, Logan, Iowa, announces a sale of Holstein cattle to take place March 26th. On that date he will sell fifty pure-bred and high-grade Holsteins. Further particulars will appear in next week's Homestead.

The farmer looking for good seed will undoubtedly be interested in the catalog published by Fred Echtenkamp, Arlington, Neb. Mr. Echtenkamp assures our readers that his corn is positively home grown from pure seed and is not purchased from different farmers as they haul to market, as some seed houses do and then claim to have good seed. His advertisement will be found elsewhere in the horticultural department in this week's issue.

Catalog No. 19 for the Flour City tractors, made by the Kinnard-Haines Company, Minneapolis, Minn., is a very beautiful booklet. In addition to being beautiful it is one of the best illustrated and one of the most comprehensible booklets that has been sent to our office. We feel sure it will pay all our readers who are interested in tractors to get a copy of this catalog. The Flour City tractor is advertised elsewhere in this issue.

We desire to call the attention of our readers to the excellent line of Eureka potato and corn-planting machinery advertised elsewhere in this issue. This is a very fine line of goods, manufactured by the Eureka Mower Company, Utica, N. Y., and bears an excellent reputation. It is extensively sold all over the United States. Farmers who are planning to buy something in this line will do well to write them for catalog.

W. J. Wendt, Marcus, Iowa, offers elsewhere in this paper some of the best bred sows of the Duroc Jersey breed and is offering them at very fair prices. This season anyone can make good on this class of sows and no time was ever a better one to get started in the breeding of better stock. Mr. Wendt can make you some good propositions and it will be to your benefit to write him for descriptions and prices. Mention The Homestead when you write. Address W. J. Wendt, Marcus, Iowa.

We wish to call the attention of Homestead readers to the advertisement elsewhere in this issue of L. C. Gourley, Villisca, Iowa, who announces a closing-out sale of thirty-seven head of Guernsey cattle, six head of registered bulls; fifteen head of good horses, twelve head of Short-horn cattle, and twenty-six head of spring gilts, twenty of which are full-blood Duroc Jerseys and six are full-blood Poland Chinas. The sale will take place at his farm three miles northeast of Villisca, starting at twelve o'clock on Tuesday, March 11th.

A new sweet corn, with the combined merits of Golden Bantam and Stowell's Evergreen, is being introduced this season by Vaughan's Seed Store, Chicago and New York. Because of its parentage this 1912 novelty is named Bantam Evergreen. The ears are a golden yellow of good size and possess the quality of the Golden Bantam. The earliness of Bantam Evergreen makes it one of the most valuable sweet corns ever introduced. This company's advertisement appears in this week's issue in the horticultural department.

Two very valuable booklets for live stockmen have been put out by the Chicago Flexible Shaft Company, LaSalle Ave. and Ontario St., Chicago, Ill., manufacturers of clipping and shearing machinery. One of these bears the title of "Why Horses Should be Clipped," stating the condensed opinion of sixteen veterinary surgeons. The other concerns practical methods for extensive sheep shearing. These books are both well illustrated and are not confined wholly to the merits of the excellent line of goods manufactured by the above company. We think it will well repay our readers who are contemplating buying machinery of this type to write the Chicago Flexible Shaft Company, whose advertisement appears elsewhere in this issue.

C. H. Porter, Eagle Grove, Iowa, has had a good trade this season in bred Poland China sows, and though he had a large number for sale and has sold quite a lot of them, he can still offer some first-class ones to men who can use some more of the breed. They are mostly by Porter's Hadley Expansion by Dorr's Expansion, one of the good sons of that sire. They are bred to other good sires, many of the breeding that has made the herd of W. J. Crow so well known and so much sought by those who are breeding the best. You will like the sows that are for sale by this firm and it will pay you to write to C. H. Porter, Eagle Grove, Iowa, about the sows that are still for sale. See the advertisement elsewhere in this issue.

Davenport & Mack, Belmond, Iowa, have Short-horn cattle and Poland China sows for sale at all times, and just at the present they can furnish sows good Poland China bred sows to those who may still be able to use some good ones. The sows carry good breeding and are reared under thoroughly practical conditions, making them a good sort to buy for anyone who expects them to go ahead on the average farm. It is this class of men to whom the stock here are adapted, for they are as good as any and are not pampered, so that it will not be impossible for the good farmer to care for them, as they are used to being cared for. Write now and get the description of the stuff. Address Davenport & Mack, Belmond, Iowa. See the advertisement elsewhere in this issue of The Homestead.

A young draft stallion is described and priced in the advertisement of Amos Hanson, Collins, Iowa, that appears elsewhere in this issue. From the description this stallion is a promising young horse and interested parties should write Mr. Hanson for further particulars.

The illustration presented herewith is that of Frank J. Rist, Humboldt, Neb., one of the most progressive and enthusiastic seedsmen of Nebraska. Mr. Rist is a man who has been trained in the seed business from boyhood. He has been taught from childhood the value of good seed and has had this early education supplemented with a full course at the Nebraska University of Agriculture. Mr. Rist has made a success. His efforts have been appreciated and the seeds sent out from his farm have done much good. His last year's buyers are ordering again this season. They realize that good seeds are the best investment they can make and the best seeds are what they are after, therefore they buy of Mr. Rist. Those of our readers who are in search of the very best will

make no mistake by ordering their seeds of this gentleman. He is a young man of the very best reputation and this good name he values very highly. He will maintain this good name at any cost, hence no one need hesitate ordering from him. One of the most attractive exhibits at the recent corn show at Lincoln was put up by Mr. Rist. His efforts aided the show materially. This sort of effort is deserving of support and the writer would like to see the same rally to this call. Seed oats and seed corn of the very best strains of leading varieties are offered. Address as above and mention The Homestead when you write.

A Great Angus Bull for Sale.

One of the leading attractions in the Aberdeen Angus sale of Isenbarger Bros., at Battle Creek, Iowa, on March 12th, will be their sensational herd bull, Black King of Homesdale 98817. This splendid bull is now six years old, but he is just in his prime. He is one of the greatest sons of that equally noted bull, Black King of Woodlawn, that helped make the Igo herd famous. The dam of this bull is Blackwood 14th, a daughter of that noted show and breeding bull, Black Monarch of Emerson, and he is one of the most richly bred Blackbird bulls that has been used in the West in recent years. As an individual this bull has few superiors today in the West and he has been a great breeding bull. He is strictly a herd bull proposition and is good enough to head any Angus herd in this country. Isenbarger Bros. have used this bull at the head of their herd for several years and they now have so many of his heifers in the herd and want to retain them that it becomes necessary to sell the old bull. Here is a bull that the best Angus breeder in America can use and we care not how noted his herd may be. It is seldom a bull of the individuality and breeding of Black King of Homedale is offered in a public sale. The breeder who attends this sale and is looking for a high-class sire is not going to be disappointed in this bull. He is all we say about him and we wil stand behind all we have said regarding him. They have listed a splendid lot of younger bulls in this sale, many of which are Blackbirds, and among these are several that will make good herd bulls. They are also cataloging a splendid lot of females, among which are some of their very best Blackbirds, K. Prides and other well-known families. Write Isenbarger Bros., Battle Creek, Iowa, for catalog and kindly mention The Homestead.

Public Sale of Short-horn Bulls.

On Saturday, March 8th, at Malvern, Iowa, Geo. H. White and I. J. Swain will make a public sale of fifteen head of splendid young Short-horn bulls. These are both Scotch and Scotch topped and several of these will make splendid herd bulls. The sale will be held in the morning about ten o'clock, so if any of our readers are on the market for a bull it will pay them to attend this sale.

Percheron and Shire Sale.

On March 8th, at Malvern, Iowa, will occur the public sale of twenty head of registered Percheron and Shire stallions and mares, one registered Spanish jack and forty head of high-grade draft mares, geldings and fillies. These stallions and mares are contributed mostly by the smaller breeders of Mills county and they are offering some of the best horses that will be sold in any public sale this spring. If any of our readers want a good stallion or a good span of registered mares it will pay them to attend this sale on March 8th.

Clark's Hereford Sale.

On March 21st, at his home farm near Brayton, Iowa, R. P. Clark will make his annual public sale of fifty head of Herefords, including twenty bulls and thirty cows and heifers. Included in this sale will be his well-bred herd bull, Gay Donald 12th, a son of that well-known bull, Beau of Shadeland 31st. This bull is a grandson on the sire side of W. N. Rogers' noted show and breeding bull, Beau Donald 28th, and his dam is out of the 2,800-pound bull, Monarch of Shadeland 3d. He is an exceptionally well-bred bull and has done splendid service in the Clark herd. He is a four year old and he was bought when a calf, and as Mr. Clark is retaining his heifers he has decided to sell him. He has listed a splendid lot of young bulls for this sale, among which Acrobat 5th, a son of Acrobat's Star and out of Lucy Vanguard, is one of the best cows in his herd. Another is Czar, an August yearling by Caesar, Mr. Thornton's great herd bull. This bull has for his dam that splendid cow, Luminary, regarded as one of the most useful cows that he has ever had in the herd. Prince 12th is another August yearling sired by King Francis and out of Lucky Lady, another one of his good brood sows. Stylish Lad, Peter Sconce and Governor G. are all sired by Beau Donald 124th and these will all make good and useful bulls. Mr. Clark is selling some splendid females in this sale, among which is Nell Gwin, a daughter of old Gold Bug, one of the bulls that did service in the herd of Minier Bros. at Craig, Neb. She will have a calf by sale time to the service of Gay Donald 12th and she is one of the best cows that he will offer in the sale. Another good thing is Martie, a daughter of Clover Leaf Dale, out of a dam by March On 6th, and she will also have a calf about sale time. Gay Wilton 9th is a five year old and she is a daughter of Gay Wilson 5th and is one of the splendid breeding cows that he has in the herd. She is safe in calf to Gay Donald 12th. Lady Vanguard is another one of his best cows, as is also Birdie, a daughter of Beau Gallant by old Beau Brummel. Mr. Clark is also selling some very useful and well-bred heifers in this sale. If you are interested in Hereford cattle make it a point to send and get the R. P. Clark catalog at once, which will be forwarded upon application. When writing for it kindly mention The Homestead. Remember the Clark sale will be held the day following the A. F. Hager sale and intending purchasers can attend these two sales with ease and comfort.

A. F. Hager's Hereford Sale.

On March 20th, at the new sale pavilion at Avoca, Iowa, A. F. Hager will make a public sale of fifty-four head of Hereford cattle and it will be one of the best offerings of the spring season. It has long since been known that Mr. Hager has had one of the best herds in western Iowa and the cattle that he will sell in this sale are going to meet with favor on the part of those who will attend his sale. He is selling twenty-six head of splendid bulls and a great number of these will make herd headers. There will be twenty-eight head of cows and heifers and no man is selling a better bunch. First and foremost is his great herd bull, St. Elmo R., that is listed as No. 1 of catalog. This is one of the very best herd bulls today in the West and one of the best that we know of that will be sold in any of the sales this spring. He is a son of St. Elmo 27th, a bull that was formerly used in the Hood & Baker herd at Dunlap, Ia. His dam is Rena 2d, a granddaughter of old Sylvester, and he in turn was a son of Anxiety 4th. He is a well-bred bull through both sire and dam side and is a most excellent individual and a splendid breeding bull. He will weigh about 2,400 or 2,500 pounds and is one of the most active and best servers you ever saw. It is not often that a bull of this kind is offered in a public sale, but Mr. Hager has owned him since a calf and has so many of his heifers in the herd that he is compelled to part with him. We have known this bull since he was dropped and we know whereof we speak when we say he is one of the outstanding herd bull propositions that will be sold in any of the sales this spring. Another splendid bull that he is offering is Beau Charm 2d, a grandson of Beau Donald 28th and March On 16th. This bull, while not as large as some, is nevertheless a good one and he is full of quality from end to end. Clearmont Lad, a six-year-old bull, is also listed and he is another one of the good breeding bulls that will be cataloged for this sale. He is a grandson of old Dale 3d on the sire side and descends from that old World's Fair bull, Ancient Briton, on his dam's side. He will weigh right around 2,300 pounds and has been a most excellent breeding bull. Clearmont's Pride is another good young bull and he is a son of Dale Lad 8th. This youngster was seventh-prize bull at the Iowa State Fair and he has every promise of making a good herd bull. Monarch Wilton is the making of a splendid herd bull. He is an August yearling and is a grandson of Monarch of Shadeland and St. Louis Wilton and will make a large and a very good bull. There are a lot of other good bulls in the Hager sale and they are in splendid shape and the farmer, the breeder or the ranchman will find here just about what they are looking for. The females he has listed for this occasion are in keeping with the rest of the offering and he is selling some outstanding good cows and heifers and nobody can show a better bred lot. We will speak of the female offering in next week's issue. In the meantime kindly write A. F. Hager, Avoca, Iowa, for copy of his catalog and mention The Homestead when doing so.

Anstey's South Omaha Hereford Sale.

On March 18th, at South Omaha, Neb., George J. Anstey, Massena, Iowa, will make his annual public sale of seventy-eight head of Hereford cattle and it promises to be one of the most attractive sales of the year. For twenty-five years Mr. Anstey has been one of the mainstays of the Hereford breed and in his time has bred some splendid cattle. Many of the earlier herds were started from drafts from the George Anstey herd and he in his time has bred some of the best. This Omaha sale is going to be particularly attractive because of the number of young bulls that he has listed for the occasion. There will be fifty-three young bulls in the sale, all bred on the farm, and these are the pick of last season's crop. There will be forty yearling bulls in the sale ranging in age from fourteen months to two years of age. There will be eight bulls that are just about a year old and four or five two-year-old bulls, and it will certainly be one of the most attractive bull sales of the season. About half of the bulls that he will offer in this sale will be sired by his splendid old bull, Sidney 1st, a grandson of Imp. Keep On. This old bull is now sixteen years old, but is still doing service in the herd, and he has been one of the greatest breeding bulls Mr. Anstey has ever used. We have known old Sidney 1st for these many years and we have seen his get in many a sale ring and they have always been good. In fact, he has been one of the monarchs of the Hereford breed, and while he is getting along in years, yet he is today one of the most vigorous old bulls you ever saw. The remainder of the bulls are sired by Bruce Beau Donald, a son of Beau Donald 37th, and Columbus K., the latter bull being a grandson of old Columbus. The fifty-three head of bulls that Mr. Anstey is selling in this sale are a rugged lot and are out of the best cows on the farm. Among these are dams that are descendants of old Corrector, Keep On and Anxiety 4th. The Anstey herd now numbers over 300 head and is one of the largest herds in the state and the West. In no sale held this spring will there be found as many bulls as Mr. Anstey is offering at this time and he is making the sale at Omaha because of its accessibility to the breeder, the farmer and the ranchman. He has selected twenty-five females to make up the balance and these are a well-bred and useful lot from one end to the other. These will range from two to six years of age, but most of them are twos coming three. Everything old enough will be safe in calf and some will have calves at foot by Bruce Beau Donald, Columbus K. and Beau Gaston, the latter bull being a full brother to the great Beau Mischief. The heifers will be daughters of Sidney 1st, Beau Shadeland 10th, a Beau Donald bull bred by W. N. Rogers, and there are some outstanding good heifers in the sale. The man who wants to buy a few good females to replenish his herd or to start a herd will find about what he wants in the Anstey offering. We will say this for Mr. Anstey, and we have known him for these many years, that there is no more reliable breeder of Herefords in the business. He is selling a good lot of cattle in this sale, in nice breeding condition, and he extends a special invitation to every breeder, farmer and ranchman who wants to buy a few Herefords to be at South Omaha on March 18th. His catalog is now ready for distribution and will be mailed upon application. When writing for it kindly mention The Homestead.

Stallions and Bulls

THE Iowa State College is offering for sale one Clydesdale stallion coming two years old sired by Kuroki (12629) 13214, dam Maggie Refiner 13341 by Refiner (12301) 12116; 2d dam Princess Maggie 10880 bred by Colonel Holloway. Also several good, young Short-horn and Angus bulls. Address Division of Agriculture, Iowa State College, Ames, Iowa.

Choice Boars and Gilts

OF August and September farrow are for sale now. They are sired by Wonder Price, by A Wonder, and his dam is the great Lady Nelson. Also some by Pawnee Tall by Pawnee Chief. These are real big-type stuff, big boned and they are the making of big hogs. I am pricing them to sell. Address at once
HERMAN SCHMALE, De Witt, Nebraska.

Trotter's Jack and Jennet Sale
Postponed Until March 13th

FIFTEEN jacks, all broke, all big black fellows. Fifteeen extra large jennets, all bred and nothing over 8 years. If you want a first-class jack or some good jennets be at Trotter's barn in Mt. Ayr, Iowa, at 12:15, on March 13th, as they will every one one be sold on that day, rain or shine. Write or phone at my expense and will meet your train. If you want to come to Benton on Great Western R. R., or Burlington R. R. into Mt. Ayr. Come the day before and inspect stock before sale if you desire.
WILLIAM T. TROTTER, Mt. Ayr, Iowa.

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address
H. H. REED, - MARENGO, IOWA.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable
Willard Miller, R. F. D. No. 2, Anita, Iowa

When writing to advertisers please mention The Homestead.

GEO. J. ANSTEY'S SALE

HEREFORD CATTLE

78 Head. 53 Bulls, 25 Females. 78

SOUTH OMAHA, NEB., TUESDAY, MARCH 18, 1913

I AM selling **53 head of splendid young bulls** in this sale. The choice of my last year's raising, and as good a bunch as has ever left my **Fairview Herd.** There will be **40 yearling bulls coming two years old, 8 bulls about a year old and 4 two-year-old bulls.** These are sired by my noted old bull, **Sidney 1st 161307,** a grandson of Imp. Keep On; **Bruce Beau Donald,** a son of Beau Donald 37th; and **Columbus K.,** a grandson of the famous old Columbus. These bulls are all out of Corrector, Keep On and Anxiety 4th bred dams. There will be **25 cows and heifers in sale,** ranging in age from two to six years. These are all bred or will have calves at foot to **Columbus K., Bruce Beau Donald or Beau Gaston,** a full brother to Beau Mischief. The heifers are mostly sired by **Sidney 1st** and Beau Shadeland 10th. No such offering of bulls will be made this year and it will be a great opportunity for breeders, farmers or ranchmen. Write for my catalog at once, mentioning The Homestead. Address

Cols. Fred Reppert and M. H. Kruse, Auctioneers. **GEO. J. ANSTEY - - - MASSENA, IOWA**

OUR FIFTH ANNUAL

30-Day Sale Starts March 1st

THE offering consists of a choice selection of imported and American-bred Percheron and Shire stallions and mares. We were never better equipped to furnish the most discriminating buyers with first-class stallions than we are at present. Our horses were imported last October. Are perfectly acclimated, are two and three years old, all dark colors, weighing from 1,800 to 2,200 pounds. The mares are of the large brood type of serviceable age and are in foal. We give our customers fresh, clean, sound horses each year. They are not stale from overfitting. They are the right type with plenty of size and bone. We sell our horses at prices any farmer can pay. We have a large assortment to select from. Every animal guaranteed sound and a satisfactory breeder. If you want the best at prices that defy competition do not fail to visit us before buying elsewhere. We have a few good aged horses that have been replaced with two year olds, sound and good breeders, that will be sold very cheap. Terms to suit any one. Come and see us or write today for full particulars. Homewood is conveniently located 23 miles south of Chicago on Big Four and I. C. R. R., with trains to and from the city every hour. Barns near station. Bell phone, Homewood 58 W. Address

S. METZ & SONS, Homewood Stock Farm, Homewood, Illinois.

MARCH POLAND CHINA SOW SALE

M. F. O'Hern TUESDAY, MAR. 11 Barnum, Ia.

40 Head including 15 Tried Sows, 4 Fall Gilts, and 21 Spring Gilts.

BRED for April farrow, some for later, making the proper time for farmers who are wanting more sows for the next year. This is a sale which it will pay the farmer to attend for the sows are good ones and you can get them at the prices you want to pay for them. The sows are Chief's Wonder 2d., a boar that carries some of the best of the old Harvey Johnson blood, and a good individual of the most useful type. Some of the old sows, Osborne's Queen, Osborne's Queen 2d., Tecumseh Lady 3d. and Ideal Queen, especially, are good enough for any sale, and the most of the gilts are descendants from these sows and their kin. The sows that will be sold are the medium type, and come from stock that have always brought big litters. The sale will be held at the farm two miles southwest of town. Get a catalog mentioning The Homestead when you write. Col. F. F. Luther, auctioneer, Ray L. Gribben, and C. C. Carlin, field men.

M. F. O'HERN - - - BARNUM, IOWA.

Lawler's Postponed Poland China Sale

CLARE, IOWA, MARCH 12, 1913

50 Head Choice Sows and Gilts in strictly thrifty and healthy condition

A BIG-TYPE herd with two of the best big-type boars in the state at its head. Miller's Choice is a strongly bred big-type boar with the best of the John Miller breeding and is a 970-pound pig. Chief Price A. by Chief Price 2d dam by the Fesenmeyer A Wonder, another of the good ones in this herd. Giant's Equal by Equal's Giant by Long King's Equal, and out of a sow by D's Longfellow is the young boar. The sows are in good condition to go out and do well on any farm. They are the best of breeding, and you will have the chance to make your own prices. Be at the sale and get some of these good sows Write mentioning The Homestead. Ray L. Gribben, field man.

JAMES LAWLER - - - CLARE, IOWA.

HAMPSHIRE SOW SALE

The Breed that belts the world.
The Hog that feeds the millions.
The Market Toppers.

60 HEAD

60 HEAD

Sixty head from America's best herd, and I can prove it, will be sold at the Kiel barn,

COUNCIL BLUFFS, IA., WEDNESDAY, MARCH 12, 1913

Auctioneers: Fred Reppert, H. S. Duncan, N. G. Kraschel, R. H. Glenn. Monroe Newton, clerk.

For catalogs address

H. D. DeKalb, DeKalb, Iowa

A. F. HAGER'S

MAPLE LAWN HEREFORDS

AT PUBLIC AUCTION AVOCA, IOWA, THURSDAY, MARCH 20TH

54 HEAD 54

26 Choice Bulls

28 Cows and Heifers

INCLUDED will be my great herd bull, **St. ELMO R.,** a bull of unsurpassed merit as a sire and an individual. This is one of the greatest Hereford herd bulls offered either publicly or privately in recent years. There will be **24 young bulls** in this sale that are as good as will be sold in any sale this spring. My splendid Maple Lawn herd is regarded as one of the greatest today in the West, and I am not ashamed to invite the most critical to my sale as I know they will be satisfied with my cattle. I am selling a grand, good lot of cows and heifers, all bred and safe in calf. No better offering will be sold this year. Write for catalog at once. Address

Cols. Kraschel and Hager, Auctioneers.

A. F. HAGER, . . . AVOCA, IOWA

Please mention The Homestead when writing for catalog.

R. P. CLARK'S

SALE

HEREFORD CATTLE

BRAYTON, IOWA, MARCH 21, 1913

50 HEAD—20 Bulls, 30 Cows and Heifers.

50 HEAD—20 Bulls, 30 Cows and Heifers.

INCLUDED will be my splendid herd bull, **Gay Donald 12th,** a son of that splendid bull, **Beau of Shadeland,** together with a splendid lot of young bulls that are ready to go out and do good service. Among the good young bulls offered are sons of Thornton's great bull, **Caesar, Beau Donald 124th, Gay Donald 12th, King Francis** and other well-known sires. Among the females will be eight yearling heifers, seven 2-year-old heifers, and the remainder will be cows, most of which are young and in their prime. Most of these are bred and well along in calf and some will have calves at foot. **There will be plenty of bulls in my sale both for the breeder, the farmer and the ranchman.** Catalog now ready and will be sent on application to

R. P. CLARK, BRAYTON, IA.

COL. FRED REPPERT, Auctioneer

Please mention Iowa Homestead when writing for catalog.

HICKORY CLUSTER FARM

Duroc Sow Sale

SPRINGFIELD, OHIO

MONDAY, MARCH 24, 1913

THE PROPERTY OF SMITH & RODGERS

45 Head of Superb Duroc Bred Sows

OF FANCY BREEDING

BRED TO COL. PILOT WONDER, GRAND CHAMPION OHIO STATE FAIR, 1912; Mount's Col., champion Pennsylvania State Fair, 1912, and several other noted champion boars. The sows are by Col. Pilot Wonder, Mount's Col., Col. Beabout, Fancy Col., Premier Col., Royal E. Nuff, Orion Chief, Pal's Col., Red Col., Professor, Chief's Col. and others. H. E. Browning will represent the Homestead. Cols. Igleheart, Reppert and Irwin, auctioneers. Send for catalog.

SMITH & RODGERS, Springfield, Ohio.

ISENBARGER BROS.' ABERDEEN ANGUS SALE

BATTLE CREEK, IA., MAR. 12

36 HEAD. 12 CHOICE BULLS, 28 COWS AND HEIFERS

INCLUDED will be our great breeding bull **Black King of Homedale,** one of the greatest Blackbird bulls in America today. He is one of the best sons of the noted Black King of Woodlawn, and is one of the best bred bulls that has been sold in recent years. There will be 12 choice young bulls in the sale and some excellent cows and heifers. There will be **13 Blackbirds, 6 Prides, 2 K. Prides, 2 Trojan Ericas,** and other families will be represented. C. E. Fuester, of Battle Creek, will sell 7 head of cows and heifers in the sale. Write for catalog at once and mention The Iowa Homestead. Address

COL. SILAS IGO, Auctioneer. **ISENBARGER BROS. - - BATTLE CREEK, IOWA**

PUBLIC SALE 150 Registered Tuberculin-Tested HOLSTEIN-FRIESIANS

WATERLOO, IOWA, MARCH 18th and 19th

THESE cattle represent some of the best breeding to be found in the West. There will be abou 125 females. This includes cows—in milk or to freshen soon, young heifers, cows with A.R.O records, and daughters of A. R. O. cows. Those of breeding age are in calf to Korndyke Queen DeKol's Prince, King Segis, Pontiac Manor and Johanna Bonheur Champion and other high class sires. There are 25 young bulls of choicest breeding from A. R. O. cows. Majority of them old enough for service. Consignors: McKay Bros., R. B. Young, D. J. DeHoogh, Elliott Bros., J. L. Mason, W. A. Speer, H. A. Smucker, J. R. Thompson. Write for catalog.

IOWA HOLSTEIN BREEDERS SALE CO.,
WATERLOO - - - - - - - IOWA
Col. D. L. Perry, Auctioneer.

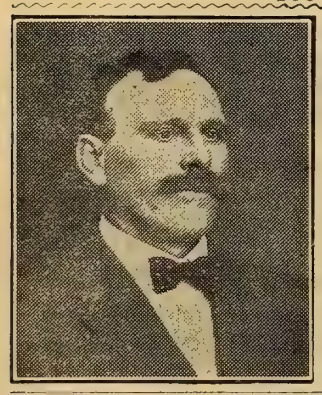
LIVE STOCK AUCTION SALE

Irvinedale Farm will make a Public Sale at

Ankeny, Iowa, Wednesday, March 12, '13

IT will include two pure-bred red roan yearling Belgian stallions weighing 1,600 and 1,620, both prize winners at Sioux City and Des Moines. Sire Pete de None (weight 2,320) dam a 2,100-pound mare. Will also offer some pure-bred mares at private sale. We have 20 head of the best grade draft mares ever sold at one farm sale. They will weigh from 1,400 to 1,800 pounds and a large per cent are in foal. All known defects will be named on day of sale. We will offer one five-passenger Mitchell automobile in first-class repair and guaranteed. Two pure-bred Shorthorn bull calves and six grade cows will sell, as well as some farm machinery, one 3½ h. p. gasoline engine, and one 11-foot grain drill. The cattle and machinery will sell at 10 o'clock and the auto and horses at 12. Free lunch at 11 o'clock. Free conveyance from Ankeny and return. Terms—cash or bankable note bearing 7 per cent interest from date. **CHAS. IRVINE, Ankeny, Iowa.**

TOO LATE TO CLASSIFY.



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GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.
GEORGE EGGERT, - NEWTON, IOWA.

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I HAVE 6 young bulls by Young Albany and Dale's Eclipse, one an extra good one. I will sell a few cows and heifers all safe in calf to young Albany, a bull I recently sold for $500. Write for prices and description, mentioning The Homestead. E. W. KREISCHER, Mt. Vernon, Iowa.

POLLED DURHAM CATTLE.

Wayside Polled Durhams Scotch-bred bulls, roan 3 years old, roan and red calves, 3 to 7 months old. A few choice bred ones. E. J. Augspurger, R. 2, Pulaski, Iowa.

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Good Luck Herd of Poland Chinas

A FEW choice big-type gilts for sale. The large useful kind with quality. Bred to F.'s Longfellow for March and April farrow. Will ship on approval, express prepaid. Satisfaction guaranteed. Write for description and prices. Address L. S. FISHER & SON, Route 1, EDGEWOOD, IOWA.

Big-Type Poland China Gilts

BRED for March and April farrow. If you want something with lots of size and bone, with quality, write me your wants. Prices right. Address
H. A. WOHLSDORF, LAWLER, IOWA.

POLAND CHINA BRED SOWS Sows by our 1,000 lb. Orange Boy and bred to Arnold's Expansion for March and April farrow. We invite inspection. Having used Orange Boy 2 years, we are now prepared to sell him and will let him go for the first check for $100. Address M. G. Arnold & Son, Strawberry Point, Iowa.

THE NORTH & ROBINSON COMPANY ANNUAL SALE

BIG, RUGGED AND CAREFULLY SELECTED

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES

Will be held in Bradstreet & Clemen's sale barn at **GRAND ISLAND, NEBRASKA, THURSDAY AND FRIDAY, MARCH 20-21**

TWENTY-FIVE big-boned, rugged young stallions, including the prize-winning Adolbert, by the champion Olbert and said by many to be the making of as good a horse as his sire. A fine lot of young stallions that are right and fit to head the best kinds of studs. They are nearly all Nebraska grown, and on one of the greatest breeding establishments in the entire country. They are grown where climatic conditions are of the very best, and on the best feeds ever grown for the production of the highest type horses. See these ton and over colts. They are the kind that please. We have listed horses for this sale that will please any man in search of the very best. See them.

THE forty mares offered will include a number that were prize-winners at the Nebraska State Fair last season, and the dozen biggest mares ever sold in one auction will be here. The 12 weigh 16 tons. Parties looking for big, sound mares that are mated and safe in foal to as good stallions as there are in the country today will do well to see this offering. We do not believe that as good values will be had in mares anywhere this season, and the man East or West, North or South can well afford to attend this sale. Everything that goes in the sale ring will sell. We raise these horses to sell, and you will not be dealing fair with yourself if you do not see them.

The catalogs are ready, and we want every horseman to have one. Col. Z. S. Branson, Auctioneer. Mention The Homestead and address at once.

THE NORTH & ROBINSON COMPANY, **GRAND ISLAND, NEBRASKA**

100 SHORT-HORNS AT PUBLIC SALE 100

GALESBURG, ILLINOIS, MARCH 25 AND 26

50 HEAD. 12 BULLS

From the herds of A. J. Ryden, Abingdon, Ill., Chas. T. Nelson, Blandinsville, Ill., Wm. Kreigh & Son, Knoxville, Ill., and H. G. Bowers, Elmwood, Ill., will be sold

TUESDAY, MARCH 25, 1913

EACH contributor is sending forward a well-bred, desirable lot of cattle. There will be twelve good young bulls in this offering including some grandsons of Whitehall Sulton that are herd-heading propositions. A breeding lot of cattle, the increase from reliable breeding herds. Breeders and farmers attend this tale. You will find here what you need in Short-horn cattle. Remember that at this sale and the sale the day following practically 100 head of cattle are to be sold, so bargains will be plentiful. Send for the catalog today. Mention The Homestead and address

A. J. RYDEN, ***Abingdon, Ill.***

A DISPERSION SALE

of the herd of Rigg & Glasgow, Mt. Sterling, Ill., owing to a dissolution of partnership, will be made

WEDNESDAY, MARCH 26, 1913

A CHOICELY bred lot of cattle is listed for this sale, representatives of the Secret, Lavender, Fancy, Emma, Clara, Missie, Rosemary and other popular families. Daughters of Trout Creek Champion, Imp. Pennan Diamond, Golden Charity Prince, Shenstone Albino, King Cupbearer and other good sires are in the list, and many sell with calves at foot while all of breeding age are in calf to Pride of Linwood. Ten extra high-class two-year-old heifers are in the sale. Some strong bull propositions including the two-year-old Sultan Archer, a grandson of Whitehall Sultan and Ceremonious Archer. Remember the entire herd is to be sold. Nothing kept back. Mention The Homestead and write for a copy of the catalog to

RIGG & GLASGOW, ***Mt. Sterling Ill.***

Cols. Jones and Cottingham, Auctioneers. Sales at Galesburg Union Stock Yards.

ALL CATTLE TO BE TUBERCULIN TESTED

POLAND CHINA SWINE.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4. **P. S. & S. BARR, - Davenport, Iowa.**

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners **G. A. WIEBE - BEATRICE, NEBRASKA**

EASY FEEDING POLANDS

THEY are bred big and will mature into large hogs, but they have the feeding quality that makes them profitable. Mention The Homestead and address **E. V. Waugh, Greeley Center, Neb.**

FOR sale, one 2-yr.-old reg. Poland China sow and her 6 gilts; heavy-boned sows all due to farrow in April. Write or call. J.J. Dooley, Emmetsburg, Ia.

ABERDEEN ANGUS CATTLE.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, highr class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

QUALITY in ANGUS BULLS

Big, black business bull—Ready for you—The kind you want—Both quality and price will please—Come to see. **H. J. HESS WATERLOO, IOWA.**

AMSBERRY'S ANGUS

TWENTY extra choice young cows and heifers, also a few young bulls and one aged Blackbird bul for sale. Popular breeding and attractive prices Address J. A. Amsberry & Son, Mason City, Neb

ANGUS BULLS

I have 9 Angus bulls, with quality and breeding, that I am offering at farmers' prices. One of them is a toppy blackbird calved last May. They were calved from Oct. 1911, to May, 1912. Call on or write **A. G. MESSER, GRUNDY CENTER, IA.**

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ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

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E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion Intetnational Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you. **E. S. MAYES, JR., SPRINGFIELD, KENTUCKY**

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HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead, **J. W. STORM, SEVILLE, OHIO**

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mound's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

MENAUGH BROS.

GARDNER, ILLINOIS,

DUROCS, POLLED DURHAMS

SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write **MENAUGH BROS., Gardner, Ill.**

Duroc Jersey Bred Sows

STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic. **C. H. PEWSEY, Sioux Rapids, Iowa.**

BURTON'S DUROC SOWS AND GILTS

15 HEAD of tried sows, fall and spring gilts. Bred to Cloverdale Chief, a grandson of Model Chief; Lincoln Model 2d, second-prize 6 months pig, Sioux City, 1912. Bred for March and April farrow. **U. G. BURTON, STORM LAKE, IOWA**

DE YOUNG'S DUROCS

A FEW good gilts and bred sows to sell. Best lines of breeding, King of Col.'s Again, Phallas Col. and Crimson Sol., sires of majority. Bred to Crimson Climax boar and others of similar good breeding. **A. J. De Young, Sheldon, Iowa.**

DUROC JERSEY GILTS

I HAVE 10 head of gilts of last March farrow, bred to farrow next March and April. These have length, bone, size, quality and passed through disease last summer. Crimson Wonder Again breeding predominates in herd. A.G. Messer, Grundy Center, Ia.

WE HAVE A DRAFT of bred gilts that are bred for M'ch and April farrow good enough for a breeder and cheap enough for the farmer. Bred from leading families, mated to best male we have ever owned. Col.-bred hog. For particulars and prices write, phone or come see them. Farm near town. J. W. Troy & Bros., Rose Hill, Ia

FOR SALE Open gilts by Crimson Col. one Superba and one Defender gilt. Will breed to above boar for spring farrow. Summer and fall pigs of both sexes by this champion boar out of sows of noted blood lines. Bargains in boar pigs. Address **C. B. REAM - Route No. 6, Lima, Ohio.**

DUROCS

MAY gilts, bred to farrow in May. Priced right. Address **L. L. WOODS, Grinnell, Iowa.**

AVERYDALE BOARS and bred sows. Also Silver King corn. A. M. Avery, Mason City, Iowa.

MIDLAND DUROCS Bred sows all sold. One yearling boar for sale or exchange for fall pigs. Address S. J. Butts, Mason City, Ia.

HAMPSHIRE SWINE.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Keatucky ond Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address **HUGHES ATKINSON - - - MT. STERLING, KENTUCKY**

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS**

DE KALB'S HAMPSHIRE SALE, Council Bluffs, Iowa, MARCH 12, 1913

I WILL sell at the above place and date 50 of the best Hampshire sows that were ever cataloged for a public sale. Catalog will be sent to every one who writes for it and mentions Iowa Homestead. Address **H. D. DE KALB, - - - - Dekalb, Iowa.**

NOTHING FOR SALE

MY correspondence is running from 20 to 30 inquiries per day. I will book orders for Hampshire spring pigs any time from now. Write soon if you want one and mention The Homestead. **CLAYTON MESSENGER, Keswick, Iowa.**

SUNNY SLOPE HAMPSHIRE SWINE

JOE 2743, reserve grand champion boar 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd, 200 choice fall pigs for sale from our prize winning sows and boars. Prices right. Mention The Homestead when writing. **C. A. BROOK, WASHINGTON, IOWA.**

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

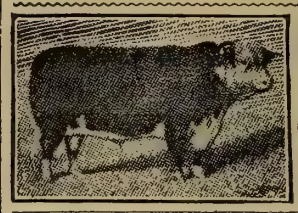
WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our are aim. Nothing but good individuals shipped off. Can ship by Adams or U. S Express. Write today. **MIKE SHARP & SONS, COAL VALLEY, ILLINOIS**

VALLEY View Hampshires. Nothing left at present but a coming 3-year-old boar and fall pigs. Address **Fred Wheeler, St. Charles, Iowa.**

Hillside Hampshire Swine

FALL and winter yearling sows bred to get of Erlanger 1039. Fall sows and male pigs for sale. Prices reasonable. W. M. Sipherd, Grand River, Ia.

HEREFORD CATTLE.



HEREFORD BULLS AND FEMALES

FOR SALE—15 bulls from 12 to 18 months of age. Also some younger bull calves, yearling and two-year-old heifers. Cows with calves at foot or due to calve soon. At prices that will move them. Disturber, Anxiety, Perfection, Earl of Shadeland, Hesiod 2d and other noted bulls appear in the pedigrees. Write for prices, Mention Homestead

W. T. WRIGHT, Mt. Pleasant, Ia.

Hereford Bulls for Ranchmen or Farmers

BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah. Newton, Iowa.

Hereford Bulls

I HAVE a good thick yearling at $150. A good 2 year old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, and they are good ones. Lamplighter, Earl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa. **P. W. REECE, R. 3, ELLMORE, MINN.**

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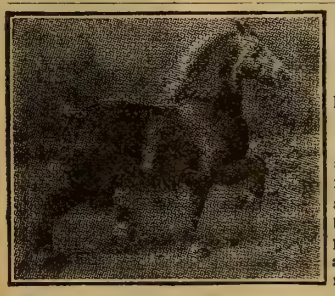

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SELL or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

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TWO GOOD STALLIONS and FOUR MARES for sale. Write for information and price.

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YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

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HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.

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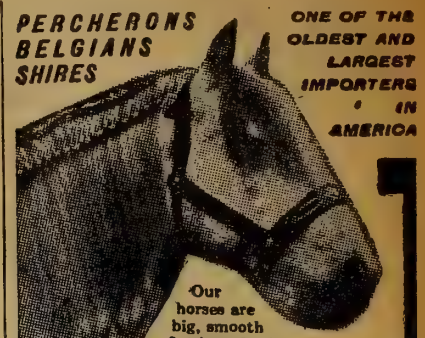
PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA



Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.

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IMPORTED PERCHERON AND BELGIAN STALLIONS

SOME extra good three and four-year-old stallions, as good as anybody can show you. All weighing a ton or better. Write, or better still, come and see me.

J. R. JUSTICE

UNION HOTEL. GALESBURG, ILL.

Bell Phone 237. Burlington and Santa Fe railroads.

PERCHERONS

THREE coming 4-year-old, 3 coming 3-year-old, 2 coming 2-year-old stallions. Grays, blacks, and blue roan. Home bred. Registered P. S. A. Heavy, well grown and showy. South central Iowa. Fast trains. Address

FRED CHANDLER
Route 7, Chariton, Iowa.

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

JACKS AT PRIVATE SALE

IF you want the BIG kind come to one of the oldest breeding barns in the state where you will find the big, heavy-boned, black fellows that will do your country good and at reasonable prices. Mention The Homestead and address

G. M. SCOTT, - Ren, Missouri.

VAN STEENBERGE'S DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,
OGDEN, IOWA

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.

P. J. EGGERS - Denison, Iowa.

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska

FOR SALE—An English shire stallion and a Missouri-bred jack. Good breeders. Sure foal getters. Prices reasonable. L. B. Cummings, Clearfield, Ia.

HORSES AND JACKS.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

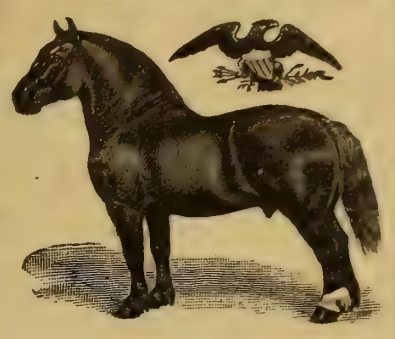
BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 1st 1913 importation arrived Feb. 13th. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

Holbert Horse Importing Company

The World's Greatest Importing Establishment



Percherons, Belgians, Shires, German and French Coachers, Hackneys

Big, ton black and gray Percherons our specialty—Blacks, black-grays, steel-grays and dapple-grays.

Royal Belgians—We import more Belgian stallions than any other firm in the U. S. Bays, browns, roans, chestnuts and blacks.

Shires—The best that old England produces.

We have at any time of the year more big, ton, high-class Percheron and Belgian stallions than any other firm in the U. S.

If your neighbor is thinking of buying a stallion send us his name and address and we will mail you FREE a beautiful lithograph of our premises, suitable for framing, showing 200 head of stallions.

A. B. HOLBERT, Proprietor and Manager, **GREELEY, IOWA**

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

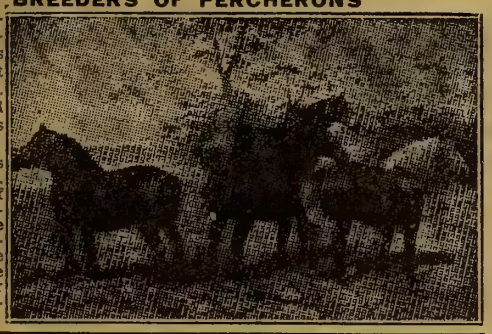
PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



NORTH & ROBINSON CO.,

IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE STALLIONS AND MARES.

150 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of Imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

NORTH & ROBINSON CO., Grand Island, Nebraska

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

PERCHERONS of this Type and BELGIANS and SHIRES ALSO

OF the very highest order are the only kind imported by Jos. Rousselle & Son. The Custom House records show that we import the most valuable horses that come to the West. Former buyers our best reference. We sell these horses at the prices ordinarily asked for inferior ones. Let us tell you of them. Address

JOS. ROUSSELLE & SON,

25 miles west of Lincoln. **SEWARD, NEBRASKA.**

GALBRAITH'S CLYDESDALES

are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action, size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, **DE KALB, ILLINOIS**

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP, EOLIA, PIKE COUNTY, MISSOURI

B-U-S-T-E-D-! PRICES

Biggest Price Wrecking Sale in the history of this Company. An excellent opportunity to save 30 to 50 per cent.

Never again will such remarkably low prices exist. Don't delay — Send your order at once or write us. Act now.

ROOFING

Corrugated Steel Roofing
1¼c Per Square Foot

Here is the chance of a lifetime to buy the best roofing in the world, at a mere fraction of it's real value. Our enormous buying power enabled us to pick up for spot cash a stock of this brand new, perfect corrugated, "V" crimped and Standing Seam Roofing and Brick Siding, at a tremendous sacrifice — 'way under what it is actually worth. Immediate cash needed made possible this purchase. Just another chapter added to the long list of our famous bargain sales.

Corrugated Steel Roofing
Practically Indestructible

There is nothing else that compares with corrugated steel roofing for real protection. It makes a long, lasting roof. Is fire, rain, frost, wind, sun and lightning proof—warmer in winter—cooler in summer; and under ordinary circumstances does not leak, rot or warp, neither does it taint rain water. You can depend upon it that Corrugated Steel is the best material for roofing, siding and ceiling.

At 1¼c per square foot, we furnish our grade **AB-700** Steel Roofing, in sheets 22 x 24 inches x 1¼ inches. This price is delivered on board cars at Chicago.

Galvanized Steel Roofing
2¾c Per Square Foot

Another big Steel Roofing Bargain. Several thousand squares of the very highest grade specially coated, corrugated, galvanized roofing and siding, made of specially prepared steel, of superior quality. Best roofing, and will last indefinitely. We will furnish it in suitable lengths for any purpose. Only a limited quantity on hand, so we urge you to send us your order immediately. Don't wait to write us again—order today, while this stock exists. Price only 2¾c per square foot, and will outlast 4 to 1. Just drop us a line, and tell us the size of your studding and general facts, and we will help you to select proper sheets. If you are not ready to use the material now, we will reserve it for future delivery, if you will give us a small deposit on account. This price of 2¾c per square foot is for our Lot **AB-800** corrugated material, and is delivered on board cars at Chicago. If you prefer some other style, we will furnish it. We have this same grade in "V" crimped, Standing Seam and Brick Siding. Samples on application.

Ready Roofing With Supplies
62c Per 108 Square Feet

We have several thousand squares of a superior quality Ready Roofing, which we are offering in our AJAX BRAND, 1-ply, at a price of 62c per square of 108 square feet, including necessary cement and caps to lay it. This is undoubtedly the most remarkable bargain ever offered in Ready Roofing. This famous brand is put up 3 or 4 pieces to a roll.

The price of 62c per square of 108 square feet is loaded on board cars at Chicago. We will, however, make a freight prepaid price on this same grade of roofing, including nails and necessary cement of 75c per roll of 108 square feet, and at this remarkably low price

We Pay the Freight

in full to any point east of Kansas and Nebraska and North of the Ohio River.

We will also furnish 2-ply, at 90c; 3-ply, at $1.05.

This **Ajax Roofing** is guaranteed to wear as long, and give as good service as any Rubber Surface roofing on the market.

We have other grades of roofing which we offer 30 per cent lower than others quote. Samples free. Get our free Roofing Book before buying roofing of any kind. This is a chance to lay in your roofing. You must send in your reservations at once—use the coupon shown in this advertisement, or merely write us a letter and tell us where you saw this advertisement. While the stock we have on hand would be considered large for any other concern, remember we have hundreds of thousands of customers who are waiting and watching for these bargains, and who will quickly take advantage of our offer; therefore, we urge you to get in your order at once, even though you are not ready to have the material come forward today. Send us your order and tell us when you want it shipped, and we will ship it according to your requirements. Do not overlook this chance—take full advantage of this offer while it lasts.

Send for Special Roofing
Catalog and Samples

Write at once for our Special Roofing Catalog. Free samples and full instructions for laying roofing. No need to write a letter, simply use the free inquiry coupon shown in this advertisement. We will understand that you simply want full information, samples, prices and specifications, which will be sent you at once, prepaid. Just send your name and address. If you are in a big hurry, send in your order direct from this advertisement. We will fill it for you correctly, and will ship forward without any delay. In any event, write us today.

SMASHING BARGAINS

EXPLANATION

The Chicago House Wrecking Company known to the commercial world as the "Great Price Wreckers" is easily acknowledged **the bargain house of the earth.**

Our Mammoth plant covers 40 acres, and our list of customers are numbered by the hundreds of thousands, and include people from every walk in life. We sell practically everything under the sun at unbeatable prices. We buy our goods at Forced Sales, taking advantage of Sheriffs, Manufacturers' and Auction Sales. In this way we can sell brand new, clean high-grade goods at prices, in many instances even less than the cost of manufacture.

We Supply Everything Needed

Our stock includes everything for the farm, home and personal use, Building Material—Lumber, Roofing, Doors, Millwork, Fencing, Hardware, Plumbing, Heating Apparatus, Furniture, Household Goods, Clothing, Shoes, in fact, every single article needed to clothe a man, woman or child, Sporting Goods, Harness and Vehicles, Jewelry, Sewing Machines, Groceries, etc. You cannot think of a single manufactured article but what we can supply it to you at a saving in price.

OUR GUARANTEE

Our capital stock is $2,000,000. Any bank or Commercial Agency, or any publisher will confirm our responsibility. We have advertised in this paper for many years. Ask any publisher what he thinks of the Chicago House Wrecking Company; get their personal opinion of the values, and our square methods of doing business. We guarantee each and every article that we sell to be exactly as per our representations. Should you buy anything from us that fails to come up to our representations, or does not agree with your expectations, we will take back such unsatisfactory merchandise at our freight expense. We want satisfied patrons.

FENCING

Brand New Wire Fencing Less Than
1c Per Running Foot

Biggest of all offers of the past. We come to you with the most wonderful proposition ever known, and offer you the very best woven wire fencing at a fraction of it's real value; lower in price than ever before, not withstanding that all other merchants and manufacturers have advanced their prices on fencing. We are determined to simply get all the business in sight, and with that in view, we bought up from manufacturer's sales, 150 carloads of High Grade Woven Wire Hog, Cattle, Field and Poultry Fencing, Barb Wire and Nails, in quantities sufficient to take care of our regular customers and those who will quickly respond to this advertisement.

Barb Wire Less Than 2c Per Rod

Galvanized, two-point Barb-Wire, full weight (not the light kind) put up regular on spools, containing about 100 lbs. to a spool. It is made of No. 12½ wire, with good weight barbs. Price per 100 lbs. during this sale, **only $1.95. Order by Lot No. AB-600.** Several thousand spools of this Barb Wire, Painted, price per **100 lbs. $1.75. Order by Lot AB-500.** Also have in stock 1000 spools of light weight, new galvanized barb wire, put up 80 rods to the spool, made of No. 14 galvanized wire, No. 15 barbs, barbs 5 inches apart; price per spool of **80 rods $1.45. Lot AB-400.** We also have several other bargains. You never had a chance like this before, and we advise that you send us your order today. Don't wait until the material is sold—we cannot hold this quotation open.

Galvanized Hog Fencing
At a Material Reduction in Price

100,000 rods of 26 in. Galvanized Steel Spring Wire, 26 in. high, hog fence, put up in 10, 20, 40 and 60 rod rolls, made with 7 bars, spaced 12 in. apart, with No. 9 top and bottom wires, No. 11 intermediate wires, heavier than the regular fencing offered. Price per rod, during this sale, **only 15c. Order by Lot AB-900.**

Same fencing spaced 6 in. apart, per rod during this sale, **only 21c. Order by Lot AB-1000.** Other heights at proportionately low prices.

High Grade Poultry Fencing
48 in. High, Per Rod 27c

A complete stock of all heights of Woven Wire Fencing for every purpose. Do not delay your order, but send it in at once, even if you are not ready to have it shipped. We will hold the material ready to deliver when you want it.

Several Carloads of
Galvanized Wire Shorts

This is smooth wire, put up 100 lbs. to a coil, first-class for general use. Comes in sizes from 6 to 15 gauge. **Price for 9 gauge, $1.25 per 100 lbs. Lot AB-1200.** Other sizes in proportion.

Some Big Bargains in Nails

At last we have the bargain of bargains. 10,000 kegs of genuine galvanized wire nails; will outlast all other kinds. Put up in regular kegs. Price per keg of 100 lbs., as follows:—

10 pennyweight, $2.00
8 pennyweight, $2.10
6 pennyweight, $2.15
Shingle Nails $3.00

Also 5,000 kegs of Nails, mixed all kinds in a keg; good assortment, handy to have around your workshop. During this sale only, **per 100 lbs., $1.45. Order by Lot AB-1100.** We have other bargains in nails.

Also, in this same job, we have 5,000 kegs of Fence Staples, galvanized; **per keg, $2.00. Lot AB-1400.**

Crimped wire for reinforcing, cut to any desired length: **per 100 lbs., $2.25. Lot AB-1300.**

We have bargains in every line. Write us today for our Wire and Fence Catalog, but the best thing for you to do is NOT TO DELAY, BUT SEND IN YOUR ORDER, and WE WILL HOLD FOR SHIPPING INSTRUCTIONS.

LUMBER

Complete houses and barns at an enormous saving. Never before in the history of Building Material has such an opportunity existed. We offer high grade, brand new complete lumber and building material needed for the construction of houses and barns at lower prices than ever before.

20,000,000 Ft. of New Lumber at Our Yards and Warehouses Ready for Quick Delivery

We have upwards of twenty million feet of first-class, brand new lumber for the construction of buildings of every kind. A wonderful stock of the very finest millwork, interior trim, etc.—enough material to construct cities and villiages everywhere. It is our determination that 1913 will be the "Banner" year in the history of our Great Lumber and Millwork department, and the way we will accomplish this, is by quoting prices that will undersell any possible competition. The proof of this is in our catalog and literature.

Write today and tell us what you contemplate improving or building during this Spring — talk to us plainly, and we promise you the advice straight from the shoulder. No other concern in the world is equipped such as we are. Right in our main yard and warehouses, at Chicago, we can load you out complete, at one time, and in one carload, every single article required for the improvement of the building you have in mind. No where else can you go and get such service.

House No. 6A

$725.00

Buys the material to build this 2-story modern, 8-room residence. Write for description.

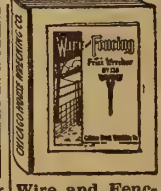
Personal Service To You

You can get the kind of service that will give you absolute satisfaction — satisfaction from the word "go." If you have ideas of your own as to the kind of building that you want, we will give you the benefit of the Greatest Architectural Department in the world. Will furnish you with plans according to your own ideas, and will quote you a price on the material that will make you a wonderful saving. Dollars saved are dollars earned.

Write today for our **Book of Plans** and **Latest Catalog of Building Material** and Supplies.

GET THESE CATALOGS FREE

Roofing Catalog
A book covering this subject complete. Tells you how to select the best kind of roofing for general purposes; also describes our Siding and Ceiling. It's free. Write for it today.



Wire and Fencing Catalog
A complete description contained in this book of all our wonderful bargains in Woven Wire Fencing, Barb Wire, Nails, Bolts, etc.

Book of House and Barn Plans
Contains 100 designs of different kinds of buildings and houses, from $147 60 up. Also shows the latest style barns. It's free.

Building Material Catalog
A 200 page book of bargains in Millwork, Lumber, Paints, Plumbing, Heating Apparatus, Hardware, etc. Just what you need. Write for it today.

SEND IN THIS COUPON

CHICAGO HOUSE WRECKING CO.
35th and Iron Streets, Dept. AB 39 Chicago

I saw your "Busted Price" advertisement in The Farmer and Stockman and am interested in the following:

Without any obligation or promise to buy, please send me the following catalogs and full information free:

(Put a check mark opposite the books you want)

- ☐ Special Catalog and samples of Metal Roofing.
- ☐ Special Catalog and samples of Ready Roofing.
- ☐ Catalog of Lumber and Building Materials.
- ☐ Book of House and Barn Plans.
- ☐ Catalog of fencing and wire.
- ☐ Catalog of house and Barn Paints.

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Address_____

County_____ State_____

R. R._____ P. O. Box_____

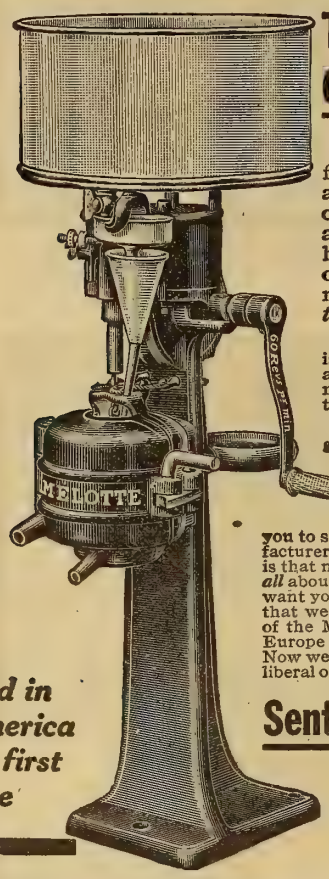
CHICAGO HOUSE WRECKING CO. Dept. AB 39 CHICAGO

FILE NO. 58 IO I 65 K

The Iowa Homestead

VOL. LVIII. NO. 11 DES MOINES, IOWA, MARCH 13, 1913. WHOLE NO. 2892

GREATEST Cream Separator Offer!



Sold in America for first time

The Melotte Cream Separator GUARANTEED FOR 15 YEARS

This is positively the first bona fide, no-money-down offer ever made on any cream separator. No manufacturer of any separator ever *dared* to make such a startling offer before. All others who have ever *pretended* to offer you a free trial or to send their separator without any money down have taken care to get *something* out of you first.

But we don't want *anything*. All we ask is your simple request. We send the cream separator direct to your farm absolutely without any money down. We can afford to do this because the Melotte sells itself.

We want you to read every word of this great offer. It is an offer which positively proves the *absolute merit* of the great **Melotte Cream Separator.** You are given the opportunity of seeing just how much cream this marvelous separator will extract from your milk before we ask you to send us one cent. You never saw another manufacturer who was so open-handed in his offer. The reason is that no other manufacturer ever wanted you to know *all* about his machine *before* paying him anything. We want you to know all there is to know because we know that we have the separator that is right. The principle of the Melotte has been *proven* to be right throughout Europe and the greatest dairying countries in the world. Now we want you to read every word of this wonderfully liberal offer.

Sent Without a Penny Down

FREE Trial!

Your simple word that you would like to see this cream separator in your own barn or dairy house brings it to you instantly. We neither ask nor want you to send a penny. The Separator goes direct to you. You set it up, give it a thorough test with the milk from your own cows. We give you a free trial that IS a free trial in every sense of the word. There is no C. O. D.—no lease, no mortgage.

Some people pretend to give you a free trial, but they ask you to give them your money first. We are not afraid to let our separator speak for itself. Test the Melotte Cream Separator in every way, watch your profits go up, watch the increase of the amount of cream, then, if you do not believe that you ought to have a cream separator, just send it back at our expense. If, however, you decide to keep this genuine Melotte—the peer of all cream separators—the separator that gives you greater profits than any other—makes every cow you have give you 100% greater value and insures you greater profits from your dairy than you ever made before—we will allow you to keep it on extremely easy

Melotte Machine Runs 54 Years

At the Melotte works one of the Melotte Separators has been working every day (driven from the shafting) since Nov. 5, 1900, running 10½ hrs. per day—or 19,687 hours at a cost of only $7.50. Reckoning that a farmer works his separator one hour per day, the 19,687 hours represent (on the farm) a period 19,687 days, or nearly 54 years. Therefore, the total cost of maintenance for the Melotte separator for 54 years, inclusive of oil, will be only $7.50. At great trials of separators held at Boulogne, France, Oct. 5 to 9, 1905, under the auspices of the Federated Agricultural Societies of the North, the Melotte easily vanquished all other separators—proving the cleanest skimmer and taking less power—and was **AWARDED THE GOLD MEDAL.**

Monthly Payments!

These payments are so small that you will hardly notice them. You only pay out of your increased profits. You don't need to be without a cream separator when you can put the separator right in your dairy house and let it pay for itself.

This is what we want to demonstrate to you. We want to demonstrate and prove beyond all peradventure that the Melotte Cream Separator does pay for itself. Only a few months' use of a Melotte Cream Separator and you will be satisfied that this statement is absolutely correct. A few months and the separator has paid for itself. It has not cost you a penny because the increased amount of cream has paid for the machine.

We don't want to tire you with a long discussion of how our cream separator is made here. You can best understand this if you let us send you our free catalog. Besides this free catalog we have another book which we should like to place in your hands.

Valuable Book "Profitable Dairying" Sent FREE!

Clip Out Coupon—

Send Today! It Brings the FREE DAIRY BOOK

Just ask for this book and it will be sent to you. It is free. Place your name on the coupon, cut it out, and mail it at once. Then we will send you our great free book, *"Profitable Dairying,"* telling you everything about cows and dairying, butter and cream—how to feed and care for cattle, how to make them twice as valuable as they are now, how to make more money than ever before out of your cows. This book is written by two of the best known dairy scientists in the country—Prof. G. H. Benkendorf, Wisconsin Dairy School Agricultural College, Madison, Wis., and K. L. Hatch, Winnebago Co. Agricultural School, Winneconne, Wis.

We will also send you Our FREE Catalog, describing fully the great Melotte Cream Separator and telling all about our liberal terms. Find out about these terms anyway, even if you don't expect to buy a cream separator *just now.* Remember, no money down, free trial and easy payments—and we let the separator tell its own story. The most sensational offer ever made in connection with a cream separator. Our catalog tells all about it. Don't delay. **Sign and send the FREE coupon RIGHT NOW!**

BABSON BROS., Agts. in U. S.
Dept. 4473
19th St. and California Ave.
CHICAGO, ILLINOIS

CUT OR TEAR OFF ALONG THIS LINE

BABSON BROS., Agents in U. S., 19th and California Ave., Dept. 4473 Chicago Ill.

Without obligations on me please send me free and prepaid, your FREE BOOK, "*Profitable Dairying*," and your free catalog in explanation of your free trial, no-money-down and easy monthly payment offer on MELOTTE Cream Separators.

Name .....

Address .....

No letter necessary. Just sign & mail the coupon today.

Concrete Fence Posts Are Permanent Posts

Wooden posts rot, may burn and must be frequently replaced.

Concrete Lasts Forever

Build your fence with concrete posts. They hold wire securely—will not heave from frost—will not pull up easily—need not be painted—will not be destroyed by worms, insects or other pests. Time and weather cannot affect them. Even a forest fire leaves a line of concrete posts undamaged. Farmers may make their own posts at odd times at a cost not exceeding the cost of good wooden posts.

Write to us for information about making concrete fence posts. Send for Farm Cement News Nos. 7 and 8, vol. 1, which tell how to make concrete posts. Use

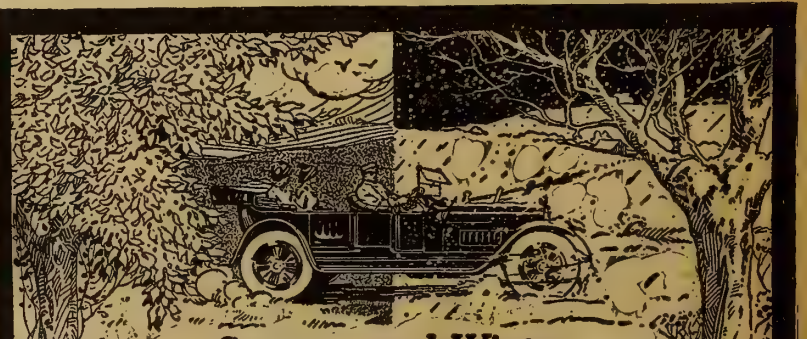
UNIVERSAL PORTLAND CEMENT

For good concrete work. It is always uniform, has good color and its quality is the highest. UNIVERSAL is for sale by representative dealers everywhere.

Universal Portland Cement Co.

CHICAGO 72 West Adams Street
PITTSBURGH Frick Building
MINNEAPOLIS Security Bank Building

Plants at Chicago and Pittsburgh, Annual Output 12,000,000 Barrels



Summer and Winter and in Between—

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 13, 1913.

Teaching the Farm Girl to Cook

How the Campaign to Add Domestic Science to Every Rural School is Gaining Ground Throughout the Entire Grain Belt---Notable Success on Little Money in Kansas.

THE movement to improve the farm home, by adding city conveniences, has extended until a widespread campaign is now under way to make the farm girl and the farm woman a better and more scientific cook. Not that the farm wife of yesterday was guilty of absolute ignorance of the gentle art of making food stuffs palatable and digestible, but that the fine art of domestic economy is making such rapid progress toward absolute perfection it is only fair the farm cook should have the same advantages as her city cousin.

A bill which has recently passed one of the houses of the Iowa legislature (with good prospects of shortly becoming a law) provides for the teaching of domestic science (as well as elementary agriculture) in every public school in the state, both urban and rural, the course of instruction to be offered after July 1, 1915. This bill is in line with the recommendation of the Better Schools Commission, appointed to study the needs of rural schools, in particular. Similar laws are in effect in other grain-belt states, with notable success, and the day is not far distant when no school course will be considered complete without instruction, both to farm girls and city girls, in the culinary art.

The hue and cry which went up in Iowa when it was proposed by the state board of education to remove the domestic science course from the state agricultural college has resulted in a plan to have such courses taught in all three of the state's institutions of higher learning and to add to, rather than detract from, the opportunities the farm girl has long enjoyed at the agricultural college to learn how to become a better housekeeper. The plan of the state board to change the courses of study in the three institutions might have gone through had it not been for the plan to deny farm girls a chance to learn how to cook scientifically. Such a storm of protest arose as convinced not only the board, but every interested observer, that the movement to relieve the farmer from floundering in an "everlasting sea of grease" is a permanent and far-reaching one.

For $50 any rural school can buy equipment sufficient to teach cooking. And for two and one-half cents a lesson for each girl this department may be maintained in one corner of the school room. These figures are from Miss Ida Rigney, now with the Kansas Agricultural College, and who for several years has been teaching domestic science in the public schools. Miss Rigney says a $50 outfit is not skimpy. It includes everything necessary—a stove, a work table with cupboards and drawers, and all the utensils. At this low figure a department of cooking is within the reach of even the smallest district school, says Miss Rigney. Within the last two or three years between 500 and 600 rural schools in Kansas added courses in either cooking or sewing. Here is the itemized list of equipment needed and the cost:

Article.	Cost.
One table	$20.00
One stove (2-burner coal oil)	10.00
One oven	2.00
One oil can (5 gallons)	.60
Four dishpans	4.00
Four kettles (gray granite, 5½ inch)	.60
Four saucepans (gray granite, 4½ inch)	.40
Two omelet pans	.40
Four small china bowls	.40
Four teaspoons (plated)	.28
Four tablespoons (plated)	.30
Four paring knives	.20
Four kitchen knives	.36
Four measuring cups	.40
Four cake tins (4½x4½x1½)	.60

MISS IDA RIGNEY, THE KANSAS TEACHER WHO IS SETTING THE GRAIN BELT A GOOD EXAMPLE.

Four pie tins (5 inch)	$ .32
One grater	.15
Two biscuit cutters	.10
Two egg beaters	.12
Two egg whips	.10
Two rolling pins	.50
Four bread pans (9½x4½x3½)	.80
Four molds (tin)	.20
Two soap dishes	.30
Four scrub brushes	.20
Two towel racks	.50
One can opener	.05
One tea kettle	1.00
*One meat grinder	.85
One lemon reamer	.10
Two strainers	.10
*Two toasters	.25
One small garbage can	.50
*One broom	.50
One dust pan	.20
One muffin tin	.40
One butcher knife	.25
*One frying basket	.15
*Two potato mashers	.10
One flour can (5 pounds)	.10
One sugar can (5 pounds)	.10
One pint Mason jar for salt	.05
One pint Mason jar for pepper	.05

*CHINA FOR SERVING.

One cup	$ .15
One saucer	.15
One small plate	.15
One sauce dish	.10
One sherbet (stemmed)	.10
One water glass	.10
One bouillon cup and saucer	.15
One knife	.50
One fork	.50
One bouillon spoon	.30
One salad fork	.35

*Where funds are low, these may be omitted from the equipment. The cost may also be lessened by reducing the number of several items.

COST TO STUDENTS.

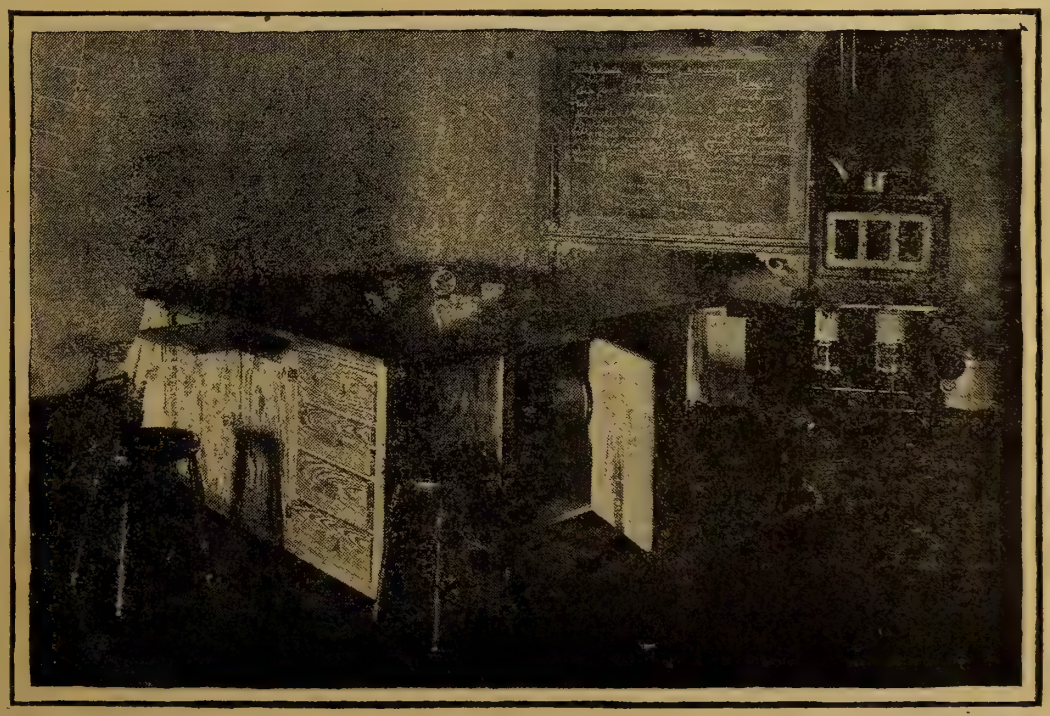
One apron	$ .50
One dish towel and cloth	.05
One hand towel	.05
One holder	.05
One notebook	.05
Total cost of equipment	$51.13
Total cost to student	.80

The table is an important piece of equipment. It should be square, with drawers and a cupboard on each of the four sides of which to keep the utensils. A table four feet square is large enough to satisfy four girls comfortably, and eight if necessary. If there are more girls in the school different hours for the work may be arranged. Such a table probably can be made for $20 to $25.

The maintenance of a small cooking department in one corner of the school room amounts to nearly nothing, as stated before. But by making a charge of a few cents for the articles cooked—usually the girls like to take the results of their efforts home to show their parents—the teacher acquires a fund which may be used in buying more equipment.

A good many Kansas schools find it convenient to devote Friday afternoon, after recess, to the classes in cooking, agriculture or manual training—one lesson a week. The boys do their problems in agriculture or manual training in one corner of the room and the girls work in another.

The tendency throughout the entire grain belt is to make country schools more practical. While the boys have their corn-judging contests and their general instruction in agriculture, it is only fair and proper that the girls should have every chance to become better housewives. No sign of the times is more fraught with promise than this one of giving the farm girls the culinary instruction and domestic science training all too long denied them. Kansas deserves much credit for setting a splendid example in this line. Cooking schools in various towns, attended by townspeople and farmers' families as well, have proved highly successful in the past, a week being devoted to each town, with instructions given by domestic science experts from the state college of agriculture. There is a growing conviction that the best and fullest results cannot be had until the housekeeper is taught in the art not only of making home attractive, whether it be in the city or in the country, but of preparing food so as to give the maximum of physical strength with the minimum of indigestion. That farm wives are taking advantage of their opportunities so eagerly is a most pleasing sign of the times.



A CLASS USING MODEL EQUIPMENT FOR TEACHING COOKING IN A RURAL SCHOOL, SHOWING THE ADAPTABILITY OF THE $50 OUTFIT.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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TO SUCCEED WITH LIVE STOCK.

There are few who do not admire beautiful animals. The son of a successful stockman born and reared on a good stock farm where high-class animals are bred and fed has unlimited advantages and bright prospects for success. Every year we become more and more convinced of the importance of getting greater returns from our acres. While it may be possible by the judicious use of legumes, commercial fertilizers, judicious tillage, etc., to build up and improve impoverished lands without live stock, experience teaches that it is not at all likely to be done, and it is generally conceded that if the fertility of the land is to be maintained and increased the feeding of live stock must be continued.

To have a good stock farm is a decided advantage to the stockman. This farm if located where the winters are not too long and hard is highly advantageous. Surely the soil should abound with lime and phosphorus as this insures grasses and grains of all kinds, rich in all the essential elements for the proper development of the animal's body. This farm to be ideal should be well watered with never-failing springs.

To succeed as a stock breeder some particular class of stock must be chosen and this class should suit the farm. A good hog farm is not usually well adapted to sheep and a beef cattle farm may be entirely unsuited to dairying. To succeed with live stock the breeder should choose the class he likes best and that suits his farm.

The fact should always be remembered that improvement depends largely upon the selection of the breeding animals and unless the breeder is a good judge his prospects for success are few indeed. So one of the very first essentials in the improvement of live stock is to learn to judge in order that the right kind of individuals may be selected for breeding purposes. Great judges are born, not made, but anyone can learn to be a fairly good judge, good enough at least to be able to breed market-topping animals. To learn to judge animals the breeder if possible should visit the great market centers and see what types are in greatest demand and are bringing the highest prices. He should visit successful breeders of the class of animals he expects to produce, read live stock journals, attend the stock shows and, if a young man, he should go to the college of agriculture and take the courses in stock judging.

After the class has been decided upon and one has learned how to select, then a breed should be chosen. This should be from some of the good old reliable breeds that have proven a success. We do not need new breeds, but more good individuals of the breeds we already have.

In order to produce choice animals the very best of sires must always be used. It is dangerous to use inferior sires when the offspring are to be used for breeding purposes, as this inferiority will be sure to crop out in a few generations. The breeder should never be satisfied with anything but a high-class sire, one that is a good breeder and with good ancestors as far back as possible. The sire must not be expected to do all. Good dams must be used. These must be of the same breed, the same type and with the same uniform ancestry, if high-class youngsters are to be expected. When these rules are strictly adhered to, breeding will not be a lottery and good animals of the desired type will be produced invariably. Just as long as we continue to cross, recross and mix up breeds just so long will the big bulk of our live stock remain inferior and of no recognized breeding.

The successful breeder will always retain the very best young females from his very best dams for breeders. No breeder who sells the better females need ever hope to make much progress. Proper feed and care must not be overlooked, as this is more important even than breed. Pedigreed animals half fed and cared for will be scrubs in the eyes of the public and no amount of talk will convince buyers to the contrary. The farmer who produces choice animals is a benefactor. Young men seeing his good works will profit thereby. Producing high-class animals for the block is a safe business and one in which there is both pleasure and profit.

PRESIDENT WILSON ON THE FARMER.

Farm demonstration work and a better system of rural credits are two of the things to which President Wilson pledged himself in his scholarly inaugural address. The address was a declaration of principles, rather than of platform planks or personal pledges, but of the dozen big and important matters which the incoming president listed as deserving of immediate attention, these farm issues stand among the most conspicuous. The president's reference was brief:

A body of agricultural activities never yet given the efficiency of great business undertakings or served as it should be through the instrumentality of science taken directly to the farm, or afforded the facilities of credit best suited to its practical needs.

This brief declaration, however, taken in connection with President Wilson's more extended remarks on the same subject recently, shows his interest in the farmer's welfare and his plan to bring the needs of the farmer prominently before the attention of congress. Delivering an address to the New Jersey legislature only a few weeks ago, President Wilson elaborated his ideas on farm demonstration work in this manner:

The farmer has not been served as he might and should be. We have set up and subsidized agricultural schools, horticultural schools, schools of poultry raising, and the rest, and they have done excellent work. Our support of them should be hearty and generous. But a more effective way still has been found by which the farmer can be served. Lectures and schools and experimental farms attached to schools like laboratories are excellent, but they do not and cannot of themselves push their work home. Some states have gone much beyond this and we should follow them with zest.

The thing that tells is demonstration work. The knowledge of the schools should be carried out to the farms themselves. It does not require a great deal of money to train men and send them out for this work, and when once it is begun it goes on of itself. Private persons, voluntary independent associations, county authorities take it up. It is a thing that gives life as it goes. It awakens countrysides and rouses them to take charge of themselves. It is not help from the government, it is merely light from the government. The light does the rest.

That the new president proposes to continue the investigation of foreign rural credit systems is evident from the brief statement in his inaugural address. Ambassador Herrick has already filed an exhaustive report, while a congressional investigation is proposed, with representatives of farm journals and societies to visit Europe this summer and examine carefully into the workings of the credit systems so successfully operated there. Whether similar societies are ever organized in the United States or not, it is believed that a discussion of the subject cannot fail of beneficial results and President Wilson's interest in the subject is evidence that he does not propose that the agricultural advance of recent years shall be checked or deflected in the least. Appointing a grain-belt man as his secretary of agriculture and pledging himself to the farmer's best interests in two important matters starts the new president right, so far as looking after the farmer's welfare in a patriotic and non-partisan manner is concerned.

RIGHT WAY TO DISK LAND.

One of our subscribers calls attention to the mistakes often made in disking land. The writer mentions particularly the unwise plan of disking a field one way, then turning and crossing it, thus blocking the field off into squares, a ridge being formed by the outer disks throwing up the soil. When a field is disked one way, then crossed the other way, the appearance, when finished, is much like that of a checkerboard.

All land requires at least two diskings, and the best way of doing this is to "lap half" and do the job up as fast as the work progresses. If, however, it is preferred not to do both diskings so close together, the "lapping half" may be done later, but in no case can better work be done by crossing the direction of the first disking. This can be done by straddling the ridge made by the outer disks, and the outer disks will then fill the cut made by the center disks the first time over the field, leaving the surface level so far as the throw of the disks are concerned.

Rather than put weight on the disk gangs to cut deep, we believe in using a sharp angle. This pulverizes the soil better and moves it further, giving it a greater throw. When disking in heavy stalks it may be necessary to add weight, but a good disk will do all the work that four good horses care to do if the shift levers are set to give the sharpest angle. But the main thing to remember, as our subscriber states, is not to disk one way, then cross it the second time over, as this blocks the field off in squares, each square marked by the ridge left by the outer disks.

KEEPING TAB ON INCOME AND EXPENSES.

This paper has not given a great deal of attention to the problem of farm bookkeeping nor do we propose to apologize at this time for our conduct in this regard. We have always held the belief that a successful farmer would be able to work out a system of bookkeeping for himself that would be well adapted to his needs. On the other hand we have felt that the man who is not successful in getting profitable crops from his soil can be aided but little by keeping a record of his mismanagement. In many cases the bank account at the end of the year tells the important part of the story.

However, we find no fault with those who emphasize the importance of keeping an accurate record of farm transactions. Such a record is advocated by one of our subscribers, who says:

If you have never kept a record of the income and expenditures of the farm, this spring will be a good time to begin keeping one. There are many books especially prepared for this purpose. They cost from fifty cents to $1. They are no doubt well suited for the purpose for which they were designed. If you do not care to buy such a book, a very good record book can be purchased at the drug or book store. I have such a book which I bought for fifteen cents and which has served me well for a couple of years.

In this book is jotted down every article sold from the farm. I can turn to this book and figure up just how much was sold from my farm last season, from asparagus to cantaloupes and watermelons. I know just exactly the income from my place and the expenditures, or you might say the expenses, of getting my crop on the market. There is a great deal of satisfaction in referring to this book, and I am often called upon to use it.

In this book can also be kept every item of purchase from toothpicks to winter clothing. By thus keeping a record of one's expenses a spirit of economy will be encouraged and developed, and one will come to realize there are a great many things that one does not really need. So he will get along without them and keep his money in the bank. I am safe in saying that the man who keeps a record of his income and expenses will be 10 per cent more economical than the fellow who does not. Thus a spirit of thrift is encouraged.

We cannot deny that there is a certain educational value to be derived from the keeping of accounts. While every farmer knows which is the most profitable and which the most unprofitable part of his farming operations, yet there is a satisfaction in summing the whole matter up at the end of the year for the purpose of confirming what might otherwise be a guess. As such a system as here advised, the writer asserts, cultivates the habit of thrift, then to that extent must it be endorsed because thrift is a most highly commendable personal attribute. After all there is some solid satisfaction to be derived from knowing just what the poultry are paying, what the sheep are contributing to the welfare of the farmer, what the hogs are doing to lift the mortgage, what the cows are doing to help pay some of the larger expenses of the farm and incidentally to know the exact value of the grain that is sold direct from the farm. A sensible system of farm bookkeeping might more quickly than otherwise convince a farmer just where the emphasis should be placed in order to derive the greatest revenue from the least expenditure of labor.

BELIEVES IN DEEP CROSS PLOWING.

A subscriber from the semi-arid belt, Mr. C. O. Woodmansee, expresses the belief that deep plowing will answer an even more important purpose in what he calls the rain belt than it does in the semi-arid region. Commenting on the advice recently given in this paper to a subscriber who had fall plowed his sod land and who was asking for information concerning the best crops to sow or plant, he says:

If the subscriber has plowed his sod as it used to be done in Iowa years ago when the writer was a boy and the greater part of the state was covered with "blue stem" grass, turning the sod only about two and one-half or three inches deep, the best thing for him to do is to plow it again about eight or ten inches deep (twelve inches would be better). It is a mistake to rot the grass roots as quickly as possible; the longer you can preserve the grass roots the longer you preserve the humus, which is the life of the soil. If your subscriber will take a good stirring plow and put on a rolling cutter, and hitch plenty of good horses to it, and turn the grass roots down from eight to twelve inches deep, he will find that by properly preparing the surface with disk or harrow (a harrow is better in a clay soil for the reason that it does not pack the soil), he will find that he can raise any crop suitable to the climate.

In plowing under sod as mentioned above it is advisable, of course, to plow across the breaking as much as possible. In this country a "two-way" plow is used, and the "dry land" farmers are finding that conservation of humus and moisture are the two things necessary to their success. The methods which are successful in the semi-arid districts of the West should be doubly successful in the rain belt.

We have many times called attention to the fact that the average farmer plows too shallow. But on the other hand we would be endangering the welfare of some of our subscribers if we endorsed in detail the suggestions made by this subscriber. On soils that are inclined to be stiff in character, that is, either clay or clay loam, we cannot advise plowing from eight to twelve inches deep in the spring because such a practice means the bringing of so much inert material to the surface where the feeding roots are that the first crop is actually apt to be starved to death. In the corn belt we need a variety of weathering influences to liberate our fertility and that is why the labor of plowing deeply must always be performed in the fall of the year. We believe that the introduction of deep tillage machinery will eventually bring about a great change in the practice of corn-belt farmers because that type of implement leaves the inert material in the bottom of the furrow in a pulverizing condition. With that system we believe that great good will come as the result of increasing the root pasturage of crops. With the ordinary plow, however, it is easy to make a blunder by doing the work at the wrong time.

COUNTY AGRICULTURAL EXPERTS.

In a recent report published by the national department of agriculture on the value of farmers' institutes, attention is called to a serious defect in agricultural institute work. Considered as an educational force the institute system as carried on in the past is too transient in its nature because in many instances it completely disappears from the field of activity for the greater part of the year. During the institute season a force of lecturers comes into a district, comparative strangers to the people and the conditions that exist, deliver addresses and then leave, never perhaps to appear again in that community. The next year the same or different corps

of institute lecturers come in and go through the same process of lecturing and disappearing, not responsible for getting their teaching into operation in any of the districts they visit.

As advertising agricultural education this system has operated very well, according to institute specialist, Mr. John Hamilton, but now that many communities have become informed with respect to the value of science applied to agricultural operations, some more substantial assistance is demanded and more extended instruction by a responsible body of teachers whose advice is tested in the community in which their instruction is given by actual demonstration in the field. There is need now in many localities in all of the states for a man or a corps of men to be located permanently in each county to give attention to the development of its farming interests who will devote their entire time to professional work as advisers and demonstrators along the various lines of agriculture and home economics in which the community is engaged. The valuable results that have attended this form of assistance in the matter of developing and improving agriculture commend it to the attention of the directors of extension work, whether in connection with the farmers' institutes or the agricultural college. The method has been tested abroad until there is no longer a doubt as to its practicability or value.

In a report to the board of agriculture and fisheries and education, London, 1910, the rural education conference of Great Britain, after a very exhaustive study of methods for securing improvement in agricultural operations, recommended the establishment by the county councils of a staff of agricultural experts in each county in England to supervise agricultural operations and to give advice to farmers of the county respecting the improvement of their crops and the general betterment of their condition.

THE SILO AND THE MANURE CROP.

In the following communication an Illinois subscriber calls attention to a matter that has not always received a proper degree of emphasis, namely, the effect of the policy of using a large amount of ensilage in increasing the supply of farmyard manure:

By actual trial I find that where cattle and stock enough to consume 100 tons or more of silage are kept on the farm and a liberal use of bedding is practiced, the manure amounts to from 400 to 600 tons of good ordinary farm manure. Fifteen loads per acre will restore the land to its former fertility, if 100 bushels of corn per acre have been removed. So we find we have forty acres covered each year by using plenty of bedding and keeping it hauled out closely. What money value that will produce depends on the crop and the weather and the kind of tillage, whether bad or good. But I am safe in saying that the land that has been so treated year after year is usually worth $50 more per acre than that that has not been so treated.

Some may not agree with me on this, so I will phrase it another way. On land so treated one can raise $50 more per acre of any kind of ordinary farm crops during the time it takes to rebuild the other land, which amounts to the same thing. But someone may say, "I can keep up my farm with clover." I acknowledge clover is the greatest restuvenator known, all things considered, and for the sake of the argument grant the contention; with the help of clover one can raise sixty bushels of corn per acre. Suppose he applies the fifteen loads of manure and raises eighty bushels per acre, he would have a gain of forty bushels the first year. Then, applying his own rule, with the aid of clover he maintains the eighty-bushel crop, say, for twelve years four crops of corn would equal a net gain of eighty bushels, besides gains in wheat and clover. But it won't do to figure the gain in fertility for only one year at a time, for the sum of twenty years of manure farming over the grain farming would mean more than the grain farmer would credit to the silo.

While we are not prepared to agree with this subscriber that the feeding of 100 tons of ensilage and the use of such bedding as is found around an ordinary farm will make from 400 to 600 tons of farmyard manure, yet the quantity of manure made (a large amount we concede) when it is sensibly applied to the land will in reality greatly increase productiveness. There are a great many factors that tend to bring about increase in the value of corn-belt land. Among these we find the development of markets, improvement of schools, betterment of roads, improved means of railroad transportation, the building of interurbans, etc. We say that the effect of these is to increase the value of land, but the combined effect of all of these factors cannot equal the results to the owner of carrying out the sensible policy of increasing farm fertility. Land values in some parts of the corn belt are not actually based on soil productiveness. This is shown in certain instances where land has doubled in value without the productivness of the acre increasing one iota. Land can only maintain its present value and continue to pay interest on its capitalization by the rapid introduction and application of such a policy as will lead to its increase rather than its decrease in productiveness.

ENSILAGE FOR WORK HORSES.

A subscriber, Mr. A. W. Hess, of Pocahontas county, Iowa, gives his experience in feeding ensilage to work horses, in the following communication:

I have had very satisfactory results in feeding ensilage, not only to growing colts and idle horses, but also in the case of work horses. Last summer my ensilage lasted until the middle of June and I fed one bushel to a team three times a day and in addition each horse received eight or ten ears of corn. My horses were given good stiff work and yet I have never had them come through in better shape. I plowed three and one-half acres a day for ten days with three 1,200-pound horses and they were just as much up on the bit the last afternoon as they were when I began.

I have learned that exceedingly great care must be taken in feeding ensilage to horses to see that they do not get any moldy or spoiled ensilage. By taking a little extra pains it is not a difficult matter to avoid using anything that is spoiled. I might say that in addition to the corn and ensilage my work horses were fed a little hay, but as hay was very high in price last year I want to assure you that their hay ration was a very small one. On high-priced land hay is not a very paying crop and more and more farmers must adopt the practice of feeding all their live stock on ensilage or corn fodder. I brought colts through the winter in rather good shape on absolutely nothing but ensilage and of course at a cost very much lower than if grain and hay were used.

Thousands of our readers are now feeding ensilage to some class of live stock. Presumably a great many of these are using it for the first season and in a way the experience of feeding ensilage is experimental with them. This being the case we are glad indeed to have the experience of Mr. Hess because it may lead a great many of our readers to feed a little ensilage to their work horses during the coming spring months. If one individual can feed a horse a bushel and a half of ensilage daily with good results we see no reason why another cannot attain an equal success by following the same plan. Where hay is scarce and high in price it is well worth a trial.

SEEDING DOWN WITH WINTER WHEAT.

It is easier to obtain a good stand of clover and timothy when the same is seeded with winter wheat than it is with any other nurse crop. Wheat matures earlier than the spring grains and the crop is usually harvested before the dangerously hot weather begins.

There are two general plans that might be followed in seeding down winter wheat ground. A very common practice is to sow the seed during the month of March so that it is afterwards covered by the process of freezing and thawing. "Sowing on the last snow" is an adage hoary with age and yet after all carrying with it a very large common-sense germ.

According to the second plan seeding is delayed until the ground is sufficiently dry so that the surface can be harrowed without puddling the soil. Two or three harrowings will invariably benefit the winter wheat crop and we have never known an instance where labor spent on the surface with a harrow did any injury whatever. The seed is covered in this way and an important effect is to create a mulch on the wheat ground which prevents too rapid evaporation of the moisture and also prevents the caking or hardening of the surface soil.

As to which plan should be followed we do not propose to say, because sometimes it is advisable to sow early while in other instances it is better to sow late and harrow the ground. Our preference is for the latter plan because we prefer to have the seed covered by mechanical methods and as said before, the practice of harrowing must be commended because of its benefit to the wheat crop.

HELPING THE BOY.

It is no new idea, but because it is a good one the school superintendent of the large grain-belt city who spoke the following is deserving of commendation:

I believe every boy who is raised on a farm should be given his property share in that farm that he may have an interest in farm life. It is a long, long time in the life of a boy until he becomes twenty-one years of age. Farm boys become workers on farms by the time they are six and seven years old. The farm boy meets complexities of life of which the city boy has no knowledge whatever. His father does not always make allowances for the fact that he is only a boy after all, and not at the age when he has best judgment. A farm boy has to know everything on the farm from teaching a calf to eat to the more complex farming problems and he is expected to meet them. The boy gets whipped because things go wrong on the farm because he is supposed to know things to do at the right time. That is not quite justice. I have a great deal of sympathy for the farm boy. I was one myself and sat on a horse that pulled a harrow when I was but seven years old. If a boy was given a part ownership of a horse, cow or pig he would be far more interested in the development of the farm, because he would feel that he was a part owner. The trouble with many farm fathers is that they consider their sons so much property and free labor. My plan would be to give the farm boy time for himself.

Not the least factor among those which cause the farm boy to look enviously toward the city is that the city boy has innumerable opportunities to earn a few dollars before and after school and thus buy the trinkets dear to the heart of boyhood. By carrying daily papers, cleaning snow off the sidewalks, running errands and in a host of other ways, the city boy may accumulate a few dimes and quarters and in time come to feel himself a real millionaire. Unless the farm boy's father rewards him for his work, or permits him to work for neighbors and keep the money thus earned for himself, or gives him a tract of land or an animal for his very own, the farm boy is likely to be so discriminated against as to cause bitter feelings and add another to the all too long list of boys who quit the farm for the city, to their sorrow eventually, fully half the time. Give the farm boy something to call his own, let him learn the use and value of money by personal experience, call him into frequent consultation and respect his opinion, even if valuless, and the trend of young manhood from the farm to the city will no longer be the vexatious problem that it is now.

DENOUNCES THE BURNING OF CORNSTALKS.

Mr. S. M. Jordan, manager of the Pettis county (Mo.) Bureau of Agriculture, strongly condemns the practice of burning cornstalks. On this subject he says:

Cornstalks should be broken down at least by this time, and then when the ground conditions are right we should take a sharp disk and by going over each row we cut the stalks pretty well; but the really great value we get out of that process is the working of the soil. I know of no conditions in Pettis county that would by any means justify burning the cornstalks. If the land is already too rich we might then be justified, or if the fields last year were badly infested with chinch bugs we might be justified in burning, but under conditions in Pettis county there is no justification for burning these stalks. There is no great amount of soil fertility in cornstalks, but there is vegetable matter and most of our farms are suffering for want of vegetable matter rather than lack of soil fertility. It would decidedly pay to plow them under, even though they did not contain one particle of soil fertility. This vegetable matter renders the soil porous and sponge-like, gives life to the soil and gives it capacity for holding moisture, and it is this condition that prevents washing and makes plant food available to the young plants. Usually all that we can say about burning cornstalks is that it is a very serious blunder.

We are not so sure that conditions never justify the burning of cornstalks. We have tried both plans and our preference would be to carry out the plan outlined by Mr. Jordan. We agree with him that the soil needs all the vegetable matter that is available and as much fertility as it is possible to apply. Our opposition to the plowing under of cornstalks has been due to the fact that we have never been able to cut up with the disk and plow under a heavy crop of stalks so that they would not give lots of trouble later on both at planting time and during the season of cultivation. It is true that a sharp disk will cut most of the stalks into short lengths, but our experience is that a considerable number escape and these constitute a regular nuisance in operating corn machinery.

What is here said does not apply to a light crop of stalks because they can be cut up and buried so as to give little trouble, but in the case of a crop that would yield fifteen or twenty tons of ensilage with stalks running up ten and twelve feet tall, the situation is entirely different if such a crop is simply husked out and stalks pastured as they ordinarily are. Burning wastes a part of the fertility we will admit and all of the vegetable matter, but regardless of this waste we believe that it will always be practicable under certain conditions to burn the stalks.

THE CLIPPING OF HORSES.

Every man who has had experience in handling horses knows how disagreeable it is to start in spring work with horses wearing their long winter coats. If it is disagreeable for the driver it is ten times more disagreeable for the horse. A horse working hard under such conditions must either eat more than the clipped or short-haired horse, or on the other hand he must fall off in flesh. In giving his view on the practice of clipping horses Dr. W. W. Talbot, of Monroe county, Iowa, says:

The clipping of horses is becoming quite a common practice, especially in the eastern states and in our larger towns and cities, and this care of a horse has become a great benefit to his well-being and general keeping. It has been shown a number of times the good to the horse that is clipped, over one that is not, this demonstration being made by large concerns who are owners of many horses. One firm in the East which owns over 400 horses, one spring had half of them clipped. Among those that were clipped they had not one that was sick, while among those with their long coats on they had over 125 horses with colds, coughs, pneumonia and various other lung and skin troubles.

The horse that is clipped of his long, thick, shaggy coat looks better, feels better, works better and will keep and put on more flesh with the same amount of food than the horse with long hair, and the horse with long hair is more predisposed and contracts diseases and skin troubles, especially such as colds, pneumonia, coughs, scratches, grease heel and mud fever, much easier than the horse which is clipped. One man of authority says, "I would just as soon think of going through a year without taking a bath myself as to let my horses go without clipping in the spring."

If a man should become wet from perspiration by hard exertion, he would not like to stand around until dry or go to bed without a change to dry clothing, because of the danger to him of contracting some form of sickness, and the same comparison holds good to the horse with a long coat of wet hair when he returns from his day's work to the stable, wet, muddy and tired.

The clipping of horses is increasing rapidly, and it should, as those owning horses are beginning to see the value of it, both in the general health and appearance of the horse and the saving of feed. The long, woolly coat of hair is very slow to dry out and in this condition it collects and holds dust, dirt and filth much longer and in this way stops and closes the pores of the skin, through which is one of the natural outlets for the escape of waste and poisonous matter of the body. Then the skin becomes cold when the hair is wet after the horse stops his exercise and it requires more feed to keep up the heat of the body and skin besides enough for nourishment. If you want your horse to live long, do good work, feel refreshed and bright after his night's feed and rest, and look better, don't be afraid to groom and, above all, clip off the long hair in the spring.

We believe it will surprise many of our readers to be told that horses with long coats are much more troubled with coughs, pneumonia and other lung ailments than are clipped or short-haired horses. Upon second thought, however, every man knows that it must be unhealthful for a horse to stand over night with a wet coat. There is no reason why the country horse should not have just as good care and attention as his city cousin and among the little attentions that really spell economy the practice of clipping should be given a prominent place. We do not contend that every farm horse should be clipped in the spring, but the late shedders should be clipped always.

Ask your neighbor to subscribe to The Homestead.

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Likewise, also, "automobiles is automobiles." But in breeding either for the market, quality counts. It doesn't pay to run a poor machine any better than it does to breed "razor-backs." High class stock, and high class motor cars are cheapest in the long run.

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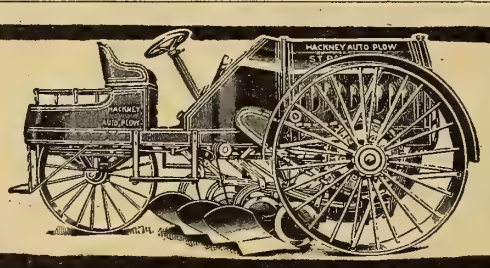

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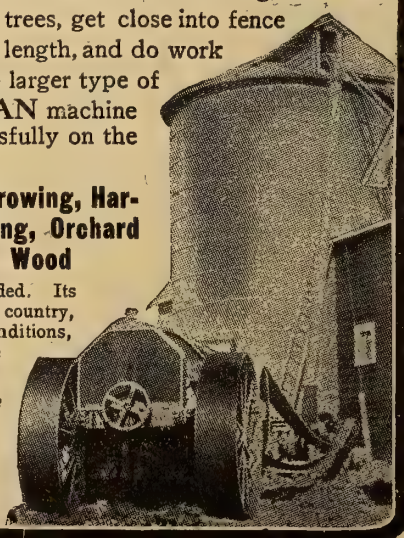

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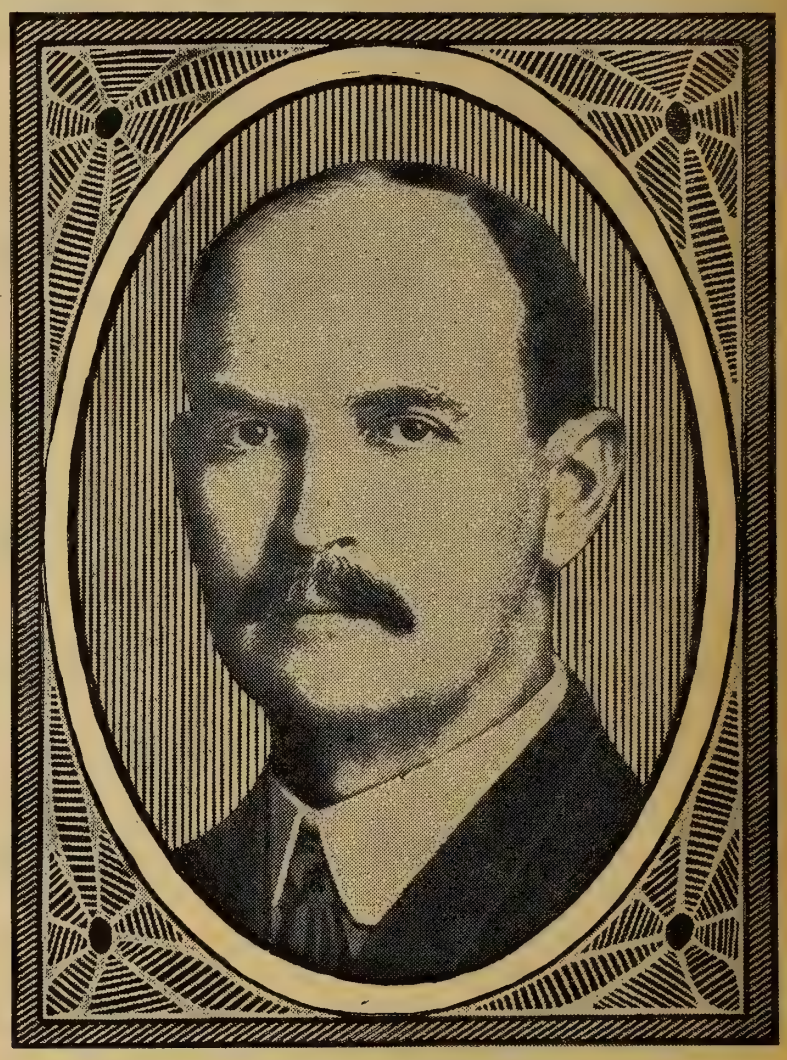
The New Secretary of Agriculture.

DAVID F. HOUSTON, of Missouri, formerly president of the State Agricultural College of Texas, and for the past five years chancellor of Washington University at St. Louis, has been appointed secretary of agriculture by President Wilson. Secretary Houston is forty-seven years of age, a personal friend of President Wilson and by his administration of the affairs of Washington University has shown himself both progressive and aggressive. His appointment came as a surprise, but is being universally commended by his Missouri associates and those who know him through affiliation in a long and honorable career along educational lines.

Secretary Houston is a native of North Carolina, having been born at Monroe, February 17, 1866. He is a graduate of Harvard and has had numerous honorary degrees conferred upon him, included in the list of institutions which have thus honored him being the University of Wisconsin. Spending the early years of his educational work in the public schools of South Carolina, Secretary Houston went to Texas almost twenty years ago and was on the faculty staff of the state university for eight years, occupying the chair of political economy and serving as dean for three years. In 1902 he was made president of the State Agricultural College of Texas, located at College Station, in which office he continued until 1905, when he was made president of the University of Texas, located at Austin. He remained there until 1908 when he went to St. Louis, becoming chancellor of Washington University, one of the strong schools of the middle West. His splendid services there have given him high place in the educational world, while his devotion to the progressive principles championed by President Wilson brought him in close touch with the present administration and resulted in his selection for the important cabinet position, the former occupants of which have been Norman J. Coleman, of Missouri; Jeremiah M. Rusk, of Wisconsin; Sterling J. Morton, of Nebraska, and James Wilson, of Iowa.

Secretary Houston came into striking prominence in recent years through his investigation of the hookworm disease in the South, becoming an authority on that ailment. He has made a close and careful study of the agricultural situation, particularly in the South and Southwest, and because of his residence in the grain belt for the past five years is in close touch with farming conditions. He has been repeatedly honored by his associates with election to important positions on various organizations, testifying to his high standing and administrative ability. The department of agriculture has grown to such immense magnitude in the past decade that it demands a chief who possesses administrative ability fully as much as agricultural knowledge and Secretary Houston is believed to be the right man for the place. Being guardian of many millions of dollars annually it is incumbent upon the secretary of agriculture to see that this immense sum is expended judiciously, so that not only may farming be made more profitable, but that the absolute integrity of the department may be maintained. Secretary Houston's success in the institutions of North Carolina, Texas and Missouri is evidence that he possesses the ability to make good in the important position to which he has been called by the new president.

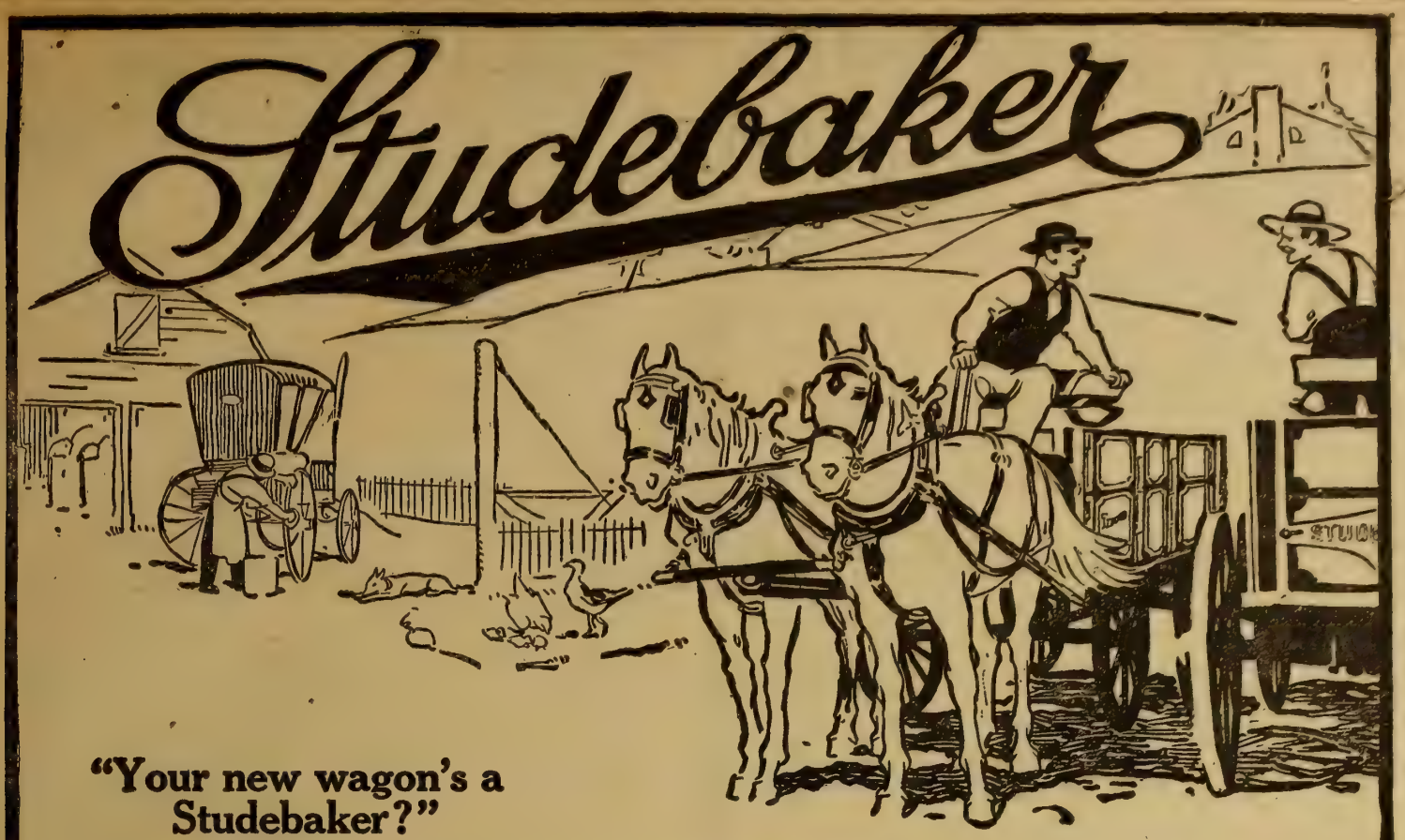


DAVID F. HOUSTON,
Secretary of Agriculture in President Wilson's Cabinet.

About the handiest tool a farmer can carry in his pocket is a jack knife with a harness punch blade. This and a six-inch plier will save miles of travel and days of time in the course of a season.

Those who have sharpened a lot of fence posts this winter with the intention of using them in their fences this coming summer will do well to pile them up as loosely as possible then try to forget about fence troubles until late in the fall or better still a whole year. A year of seasoning will mean years of life to the post.

Studebaker



"Your new wagon's a Studebaker?"

"Sure! I bought a Studebaker buggy, too."

"Well, there's no better made. I'm driving a Studebaker myself."

Confidence—the feeling that back of the mechanical excellence of the wagon and the buggy is the Studebaker name and reputation made this conversation possible.

For the man who buys a Studebaker wagon or buggy is always proud of it. He knows he has the ***best.***

And he also knows that the entire Studebaker organization will steadfastly uphold the guarantee that goes with the wagon and buggy.

For sixty years the Studebakers have enjoyed the confidence and good will of the farmer. Other wagon makers have come and gone, but Studebaker has kept right on making honest wagons and selling them at honest prices.

One standard of quality—the best—has made this possible. A wagon never leaves the Studebaker shops until it has been tested and retested to make sure it is up to this undeviating Studebaker requirement.

And the Studebaker standard is inflexible. Take the one item—wheels—hubs and spokes are stored for three years, inspected at every step of manufacture. Spokes turned from billets, cut with slope shoulders, so as to strengthen the shoulder, hubs treated with a sealing fluid which penetrates the wood and gives it a stubborn weather-resisting quality. Tires made—one for every wheel—not kept in stock sizes and forced on. Hub boxing made, so spokes can't ride on the boxing, spokes countersunk on felloe face so the load doesn't rest on the end of a single spoke. Little details, it is true, but attention to these details have made the Studebaker wagon what it is—the strongest, most dependable wagon made.

It is the absence of these little details that makes the cheap wagon possible, but the cheap wagon isn't a Studebaker, and it will neither give the service nor stand up to its work like a Studebaker.

The farmer who knows wagon values sticks close to the Studebaker dealer. He's a good man to know, for back of the Studebaker wagon is the reputation and integrity of the Studebaker organization.

Studebaker makes every kind of vehicle—for town or country, for business or pleasure. Farm wagons, contractors' wagons, trucks, delivery and business wagons, buggies, runabouts and surreys, and for every animal and every vehicle there's a Studebaker harness of the same high quality as the Studebaker wagons.

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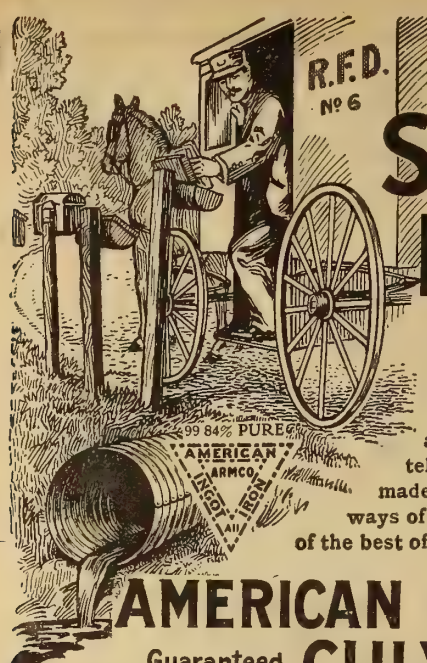

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FARM FURROWS
TURNED BY A PRACTICAL FARMER

Corn shocks frozen down and coated with ice again glorify the silo and the use of silage for winter feeding. A man doesn't have to go after silage with a pick, a shovel and ax and a four-horse team.

The cow that is to bring a good calf this spring is almost worthy of a place in the parlor. I can remember when cows sold for no more than a veal calf brings now.

Ye who think that the horse is becoming a back number go into the market place and try to buy one.

Just because the papers are not being filled up with seed corn foolishness this spring is no reason for neglecting the seed corn. It is a good idea to test until you are sure you will be planting good seed, even if the ear test is not indulged in. Knowing that a seed ear plants one-tenth of an acre, however, ought to convince one that it is unprofitable to plant too many poor ears.

When drouth or other unfavorable conditions make potatoes small, it may be all right to use the small potatoes for seed, but to make a practice of using small potatoes for seed is, I am sure, not conducive to big potato crops.

With proper handling the hog is not only a mortgage lifter, but he is a mortgage preventive.

More folks would spray their orchards if they knew how quickly and easily the work can be done with modern sprayers, and how cheaply the correct spraying solutions can be mixed. With many, it would only be a matter of getting started.

Perhaps the garden fence needs looking after before the garden is worked up fresh, offering an inducement for Biddy and her flock to slip through and test the condition of the soil.

Sitting up all night with a farrowing sow is a lonesome job, but it frequently turns out to be a profitable loss of sleep.

Instead of fighting parcel post, many of the local merchants are using it. I notice by several local papers that many local merchants advertise to deliver free, by local parcel post, all goods coming under the parcel weight. First thing we know even those who fought it hardest will find they "cannot get along without it."

Make it a point to save some of the choicest ewe lambs for the improvement of your own flock.

If you cannot "fix" your automobile yourself better not let the brawny blacksmith tackle the job. Repairing an automobile calls for a knowledge of the steel used in the construction of the "critter," rather than in "main strength and awkwardness." Because a man has pounded iron does not signify that he would make a good hand at repairing an auto.

Do your farm work well today and tomorrow's work will take good care of itself.

The makers of farm machinery should now sell repairs direct to the users of their machinery, or, at least, mail repairs direct to farmers through dealers' orders. The parcel post will prove a great thing for delivering repairs directly to the farm, whereas, when coming by express, the farmer usually has to make a trip to town after the repair when it arrives.

Shape up now for some real hard licks that will count for something in farming.

We may expect spring rains to set in any time now. Those who profess to know in advance what the weather is to be promise us more rain than usual this spring. As to this I cannot say, but it is more than likely that a good-sized pile of bedding will come in handy for use in the cattle sheds and hog house, before the pasture season arrives.

Woven wire and clover or alfalfa pasture form the stronghold for hog raising.

A neat sign board in front of the house will save peddling your surplus products around town or among your neighbors.

Oats are not especially exhaustive on the soil; yield well; are very cheaply produced; and make an excellent ration for all stock on the farm. Plan now to raise a bumper crop of them this season, either mowing them early for roughage or binding and threshing them for grain, saving the straw for bedding and to help out as roughage in conjunction with better roughage.

There is one lesson that many of our farmers have yet to learn of the city man; that of advertising whatever he has on hand to sell.

Give careful attention to the planning of a truck patch. It will yield

1000% Returns From

the use of a Hercules Stump Puller. Bumper crops instead of stumps. Big money in place of taxes. $1,200 from 40 acres the first year—$750 in extra crops every year after. Get the catalog of the

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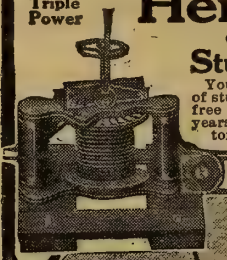

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INTERLOCKING FENCE CO. BOX 65 MORTON, ILL.

you a neat profit in surplus products for the market; while the big end of your living will be produced here.

Take the time to improve the appearance of the yard this spring by scattering a generous sprinkling of blue-grass seed over it, together with some white clover, putting it on a little heavier where there are any thin spots. Later, when the ground is dry enough to work, rake the seed in with the garden rake.

Don't let the few dollars difference in the price of a really first-class farm tool and that of a poor one, tempt you into buying the one of low quality, as the superior service rendered by the better tool will more than overbalance the small difference in the first cost of these tools.

Make early preparations for raising your own sweet potato plants by looking up catalogs or having your local merchant order you the hotbed potatoes. They wil cost you but a few cents, and you can raise plants for yourself and supply your neighbors with enough to pay many times the cost of producing them.

The weather is hardly ever too cold for cleaning seed grain, but the treating for smut should be left until a short time before seeding. A hard freeze while the grain is wet would beliable to spoil the grain for seed.

Don't forget to do a little planning for the farm garden when planning the other farm work. The earlier the "garden sass" comes to our table the better it tastes.

FEEDING NURSING EWES.

To the Editor of The Homestead:

The importance of supplying nursing ewes a liberal ration is not as fully appreciated by sheepmen as it ought to be. I recently attended a farmers' institute and the question, "Which pays better, early or late lambs?" was being discussed by a gentleman who has spent practically a natural lifetime in the sheep business, having always maintained a large flock on his farm and fed hundreds of lambs for the market. He said that he did not think that the time the lambs were dropped had as much influence on the development of the lambs as the care which they received from the time of birth until placed upon the market.

It has been my experience that this is true, and most flock owners make a great mistake in not giving more attention to the feeding of their ewes during the nursing period. As soon as a ewe drops her lamb a heavy draft on her system begins that necessarily must be restored through a larger consumption of nutritious food. If this food is not supplied regularly to replace that which has been utilized for producing milk for the young, the time must come when the supply will become reduced, not only on quality, but quantity as well.

The future of the lamb crop is largely determined by the start each individual is given. No better evidences of this can be given than instances in the flock where the ewes are poor milk producers, and their progeny fails from the start to secure sufficient nourishment to supply the needs of its body. In every flock there are a few ewes that are inferior milk producers and unless they are carefully looked after and well fed they will fail to properly nurse their offspring during the nursing period. Ewes that are poor milk producers can be made, through good care, to nurse their progeny sufficiently to promote rapid development until the lambs are old enough to take supplementary nourishment.

There are also ewes in many flocks that are good milk producers for a few weeks after dropping their lambs, but gradually reduce their milk supply until the amount is much too small for the daily needs of their offspring. This condition of affairs in the flock materially influences the quality and uniformity of the lamb crop and reduces the profits in sheep husbandry.

Permitting the ewes to become badly reduced in flesh is a very poor practice and one that causes heavy losses. As the lamb begins to draft heavily upon its dam for daily nourishment, it is necessary to not only supply additional food to maintain a steady flow of milk, but also to preserve the flesh of the mother as well. It is very natural for a nursing dam to favor her offspring and consume sufficient food to not only maintain her own system, but also to supply the necessary amount to her young. Many ewes can be found in every flock that by naturally acquired habits, sacrifice their own body for the sake of their progeny. Pasture alone in early spring possesses insufficient nourishment to supply ewes to retain their flesh and at the same time supply their offspring. There must be some other means of meeting this demand. Ewes that drop twin lambs are more heavily drawn upon by their progeny than those that drop only one lamb. As a general thing, ewes that drop twin lambs are good milk producers naturally, and while they may be able to furnish a sufficient amount to promote a rapid growth in their progeny the first few weeks, the strain is generally too heavy and either the supply becomes reduced or the ewe breaks down. When it is desirable to rear two lambs to each ewe, attention must be directed toward supplying supplementary food as soon as they recover normal condition after lambing. As a rule, care must be exercised in feeding heavy milk-producing ewes. They are usually greedy feeders. I have had some trouble in overfeeding heavy milking ewes and, as a result, lost a lamb or impaired the milking system of the dam.

It is well to begin graining the ewes lightly at first, as soon as they recover normal conditions, and gradually increase the ration as the lambs grow older and the ewes become accustomed to the supplementary ration. Corn is not a good feed for milking ewes, as it tends strongly toward heating the system. I have found that a ration compounded from oats, peas, bran and oil meal makes a very excellent ration for milking ewes. This ration is very high in protein and extremely low in carbohydrates, and tends toward inducing a heavy flow of a high quality milk. I begin feeding very lightly on this ration at first and as the ewes become accustomed to the feed, I gradually increase the amount to what the ewes will readily consume. If the pasture is very succulent I find it an excellent practice to feed a little clover hay in the rack in the sheep barn during the spring months to counteract the laxative effect of the early grass. Shepherd.

One Thousand Dollars Cash Premiums

Will be paid to the farmers of Iowa by the **Home Mutual Hail Association, of Cherokee, Iowa,** in a free-for-all exhibit of the best ten ears of corn. We are vitally interested in this subject, and as a mutual association of the best farmers of this state, we feel it our duty to help and encourage each individual farmer. Premiums will be apportioned as follows:

NORTHERN ZONE		NORTH CENTRAL ZONE		SOUTH CENTRAL ZONE		SOUTHERN ZONE	
1st Premium	$50.00	1st Premium	$50.00	1st Premium	$50.00	1st Premium	$50.00
2d Premium	25.00	2d Premium	25.00	2d Premium	25.00	2d Premium	25.00
3d Premium	15.00	3d Premium	15.00	3d Premium	15.00	3d Premium	15.00
4th Premium	10.00	4th Premium	10.00	4th Premium	10.00	4th Premium	10.00
5 Premiums of $5.00 Each		5 Premiums of $5.00 Each		5 Premiums of $5.00 Each		5 Premiums of $5.00 Each	

Double Cash Premiums Will Be Paid

If you are now or become a member of the Home Mutual Hail Association, of Cherokee, Iowa, before July 15, 1913, then the premiums will be doubled, as follows:

NORTHERN ZONE

1st Premium $100.00 2d Premium $50.00 3d Premium $30.00 4th Premium $20.00
5 Premiums of $10.00 Each and like premiums in the North Central, South Central and Southern Zones.

RULES:—This contest is wide open to every farmer in Iowa. All corn to be sent by express or parcel post, charges prepaid, during the week commencing December 22, 1913, to the Iowa Corn and Small Grain Growers' Association, Ames, Iowa, who will judge the corn and award premiums, under the rules of membership.

For further information, before shipping corn, secure entry blank, premium list and shipping tag from the Iowa Corn and Small Grain Growers' Association, Ames, Iowa. Let each and every farmer try

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Silver Manufacturing Co., Salem, Ohio

Wm. Harding & Sons' Duroc Sale.

The offering was one an old breeder could be proud of and the large crowd snapped them up in a few moments. In fact, it was as good an offering as we have seen sold this year. Colonels Reppert, Igleheart and Boyd did the selling. Below is a list of buyers and prices:.

1.	John Keefe, Piper City, Ill	$152
2.	J. M. Cudahy, Innisfail Stock Farm, Libertyville, Ill	50
3.	Wm. Oakes, Laura, Ill	82
4.	Harry P. Ladd, Kewanee, Ill	78
5.	Loper Bros., Castleton, Ill	60
6.	Harry P. Ladd	83
7.	T. E. Price, Trivoli, Ill	64
8.	Wm. Oakes	56
9.	Cudahy Stock Farm	56
10.	Ira Porter, Brimfield, Ill	46
11.	H. E. Chichester, Brimfield, Ill	63
12.	C. H. Emans, Peoria, Ill	56
13.	C. C. Painter, Stronghurst, Ill	60
14.	Arthur Anderson, Toulon, Ill	55
15.	W. F. Drummy, Ryan, Iowa	55
16.	C. S. Gleason, Wyoming, Ill	88
17.	Ira Hodson, Brimfield, Ill	50
18.	J. B. Kays, McNabb, Ill	66
19.	L. O. Pulsipher, Elmwood, Ill	62
20.	C. C. Painter	77
21.	Cudahy Stock Farm	51
22.	Cudahy Stock Farm	50
23.	S. H. Neikirk	50
25.	W. P. Moore, Terre Haute, Ill	60
26.	Clark & Son, Brimfield, Ill	65
27.	W. P. Moore	66
28.	Arthur Anderson	70
29.	L. O. Pulsipher	60
30.	Jas. Smith, Wyoming, Ill	50
31.	Harrison Hines, Brimfield, Ill	57
32.	L. O. Pulsipher	62
33.	L. O. Pulsipher	60
34.	Cudahy Stock Farm	58
36.	Harry P. Ladd	95
37.	Wirt Cottingham, Trivoli, Ill	100

Thirty-five head sold for $2,313, an average of $66.08 per head. The gilts by Proud Defender averaged $84.16 per head.

Remove One Nut and Share is Off

Off or on quick—that's the new feature. That's what you want. It's the biggest plow improvement in years.

When you see how it works you'll know the advantage of the

JOHN DEERE Q-D SHARE

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Our book, mailed free, tells all about this new improvement in plows. Write for free "Q-D" Book No. Q-D-27

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JOHN DEERE MOLINE, ILL. THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

CURRENT EVENTS

IN the presence of a vast concourse of enthusiastically cheering citizens, Woodrow Wilson, of New Jersey, was inaugurated president of the United States. The oath was administered by Chief Justice White, of the supreme court, following which the new president delivered an inaugural address, which for brilliancy and briefness is a classic. In many respects the address was comparable with documents issued on similar occasions by President Lincoln and earlier executives, who took the occasion to promulgate a set of principles rather than personal pledges or party planks. President Wilson made a plea for human rights and declared the change of government, which began two years ago when the house of representatives became democratic by a decisive majority, means that the nation has "been refreshed by a new insight into our own life." He was enthusiastically cheered when he added that "the scales of heedlessness have fallen from our eyes. We have made up our minds to square every process of our national life again with the standards we so proudly set up at the beginning and have always carried at our hearts. Our work is a work of restoration." The concluding sentences of the president's inaugural address stand without an equal in recent state documents, for their brilliancy and eloquence, and are as follows: "This is not a day of triumph; it is a day of dedication. Here muster, not the forces of party, but the forces of humanity. Men's hearts wait upon us; men's lives hang in the balance; men's hopes call upon us to say what we will do. Who shall live up to the great trust? Who dares fail to try? I summon all honest men, all patriotic, all forward-looking men, to my side. God helping me, I will not fail them, if they will but counsel and sustain me!" After having delivered his address, President Wilson and Vice-President Marshall (who had been sworn in a short time previously) reviewed the inaugural procession, which consumed five hours in passing the reviewing stand. The new president starts his administration under the most auspicious conditions and with the well wishes not only of friends, but of his recent political opponents. He called to his aid "all forward-looking men" and pledged himself to carry out progressive principles.

AFTER a career of uninterrupted public service beginning when he was twenty-one years old, William H. Taft has retired from public life. Immediately after the inauguration of President Wilson, President Taft left Washington for Augusta, Georgia, where he will be the guest of the city for three weeks, after which he will go to New Haven and take up his work as professor of international law at Yale University, at a salary of $5,000 a year. President Taft has held various offices, having served on the bench for a number of years, as governor of the Philippines and secretary of war, prior to his elevation to the presidency. He left the office with no bitterness in his heart, he confided to personal friends, but only with thankfulness that he had been given the opportunity to serve. He was given an ovation as he drove from the White House to the depot, testifying to the personal esteem in which he is held by his friends and neighbors in Washington.

PRESIDENT WILSON is understood to be antagonistic to the plan to permit American coastwise vessels to pass through the Panama canal free of toll and in this respect takes the position maintained by Great Britain, which has filed a formal note of protest with the state department. President Wilson will either lend his influence to securing a repeal of the law adopted by congress exempting this class of American vessels, or will unite with Great Britain in urging that the matter be settled by an international court of arbitration. This matter of Panama canal tolls is the only thing which has caused a serious difference of opinion between the United States and Great Britain in many years and it is sincerely to be hoped that it will be settled amicably to both nations, without any diminution of the friendly relations now existing.

CHAMP CLARK, of Missouri, will preside over the next house as speaker, the democratic caucus, held last week, continuing him in his high office. Representative Underwood, of Alabama, will remain as chairman of the house ways and means committee, which will bear the brunt of the work of revising the tariff downward. The democratic caucus was harmonious in the extreme and pledges were given that the party would remain united until the campaign pledges were fulfilled. Speaker Clark put an end to the rumors of a falling out between him and President Wilson by declaring: "It is a thing incredible that any man fit for official station would let his personal likes or dislikes interfere with his cooperating with any other democrat in unifying the party in its Herculean and multifarious tasks to redeem our pledges." The speaker was a candidate for the presidential nomination against Wilson, but has shown no visible evidences of ill feeling since his defeat.

ONE of the last acts of President Taft was to veto the bill recently passed by congress prohibiting the interstate shipment of intoxicating liquors into prohibition states, in conflict with the laws of those states. President Taft gave as his reason the belief that such law was unconstitutional. Congress apparently did not share this opinion, as both houses passed the bill over the president's veto by an overwhelming majority, so that it becomes a law regardless of the presidental disapproval. The bill does not prohibit the interstate shipment of intoxicating liquors intended for personal use, but does prohibit their shipment where they are intended for illegal

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A careful comparison of Imperial cars, feature by feature, with other leading makes priced at $1500 to $2000 *more*, will furnish a welcome revelation to you. The time spent in making such a test will repay you a hundred fold. Through this means, men who previously believed that their requirements could not be satisfied in a car costing less than $3000, have found that the Imperial more than fulfils their highest expectations besides saving them from $1000 to $2000 on first cost alone.

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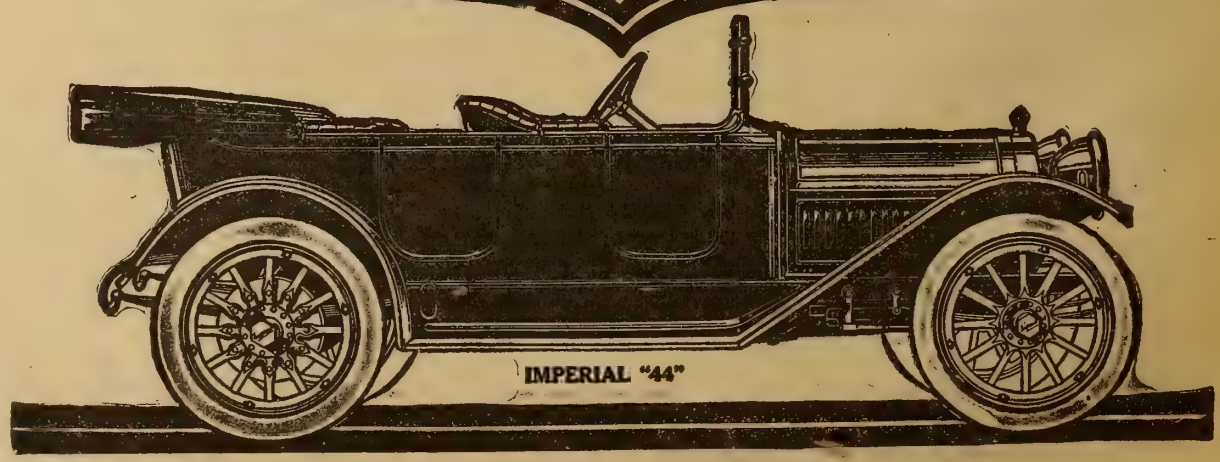

IMPERIAL "44"

use. It will thus strike a blow not only at bootlegging, but at the practice of clubs furnishing liquor to their members. The bill was championed most ardently by Senator Kenyon, of Iowa, and had the endorsement of William J. Bryan, who strongly urged democrats to pass the bill over the president's veto.

THE grain belt has two representatives in President Wilson's cabinet: William J. Bryan, of Nebraska, secretary of state, and David A. Houston, of Missouri, secretary of agriculture. The other members of the new cabinet are as follows: Secretary of treasury, William G. McAdoo, of New York; secretary of war, Lindley M. Garrison, of New Jersey; attorney-general, James McReynolds, of Tennessee; postmaster-general, Representative Albert Burleson, of Texas; secretary of navy, Josephus Daniels, of North Carolina; secretary of interior, Franklin K. Lane, of California; secretary of commerce, Representative William C. Redfield, of New York, and secretary of labor, Representative William B. Wilson, of Pennsylvania. President Wilson's cabinet will consist of ten members, whereas President Taft's consisted of only nine, the office of secretary of labor having been recently created by congress, the bill being signed by President Taft only a few hours before he retired from office. The new cabinet finds the various sections of the country well represented, New England being practically the only one without a member. Secretary Bryan, who becomes the premier of the cabinet, will inherit a number of important matters which will come up for early determination, among them being the question of intervention in Mexico or the recognition of the Huerta government and the question of Panama canal tolls, raised by Great Britain. Because of his extensive personal acquaintance, his experience in practical politics and his widespread knowledge of foreign affairs, owing to his world tours, it is confidently expected that Secretary Bryan will make an admirable premier.

THE congress which convenes on April 1st, at the call of President Wilson, to revise the tariff, will find a number of formerly prominent members of both houses conspicuous by their absence. Particularly will the passing of "Uncle Joe" Cannon, of Illinois, attract attention, not only because of the length of his service, but because of his picturesque personality. Speaker Cannon was retired to private life by the edict of the voters of his district last November. He will be accompanied to private life by Congressman Nicholas Longworth, son-in-law of Theodore Roosevelt, and by a number of prominent members of the senate, conspicuous among them being Senator Norris, of Montana, campaign manager of Colonel Roosevelt in the last campaign; and Senator Bourne, of Oregon, father of the parcel post; and Senator Crane, of Massachusetts, one of the prominent reactionaries. The term of Sen. Shelby M. Cullom, of Illinois, likewise has expired, but Senator Cullom has been appointed resident manager of the $2,000,000 Lincoln memorial to be erected in Washington, so that he does not retire completely to private life. The forthcoming congress will find many new faces in both houses, while the supremacy long held by the republicans will give way to the supremacy, for the next two years at least, of the democrats.

FOR the second time in the last sixteen years a president has vetoed an immigration bill which would have refused admittance to foreigners unable to read or write their own language. No sooner had President Taft's veto been received by congress than an effort was made to pass the bill over his veto, the house mustering the necessary two-thirds vote, but the senate failing by five. The immigration bill was heartily endorsed by the leading union labor leaders of the country, who maintain that cheap foreign labor is competing with American labor to the detriment of the latter. President Taft held, however, that it is unfair to deny admittance to the down-trodden of foreign countries, who, because of oppression there, have been unable to secure the educational advantages which they seek in this country. He maintained, moreover, that illiteracy is not necessarily an indication of citizenship that is undesirable. President Taft thus aligned himself with President Cleveland in refusing to put up the bars against foreign immigrants because of illiteracy. It is considered highly probable that an effort will be made to pass the same, or a similar, bill through the present democratic congress, as President Wilson (judging from his books) is known to be in favor of restricting immigration.

The mere enactment of law prohibiting the sale of impure seeds never has and never will prevent the indifferent or mercenary dealers from selling seeds badly adulterated and of low germination power. It requires rigid inspection and persistent campaigning to convince the buyer and seller alike of the enormous waste and loss which results from the sowing or planting of impure seeds and those of low vitality.

Already, according to competent authority, sixteen states have enacted seed laws and of these at least four have laws which for one reason or another are not capable of accomplishing good results. And as would be expected in a number of the other states, owing to inadequate inspection and insufficient campaigning far too much of the seed sold and sown is not as pure or vital as it should be. Due to the work done by Professors R. A. Moore and A. L. Stone, of the Wisconsin College of Agriculture, the dealers of Wisconsin are endeavoring to supply their patrons with superior seeds. Never a planting or sowing season returns unless the state seed inspectors are swamped with requests to inspect seeds.

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(Dept. Agriculture, Forest Service, June, 1911)

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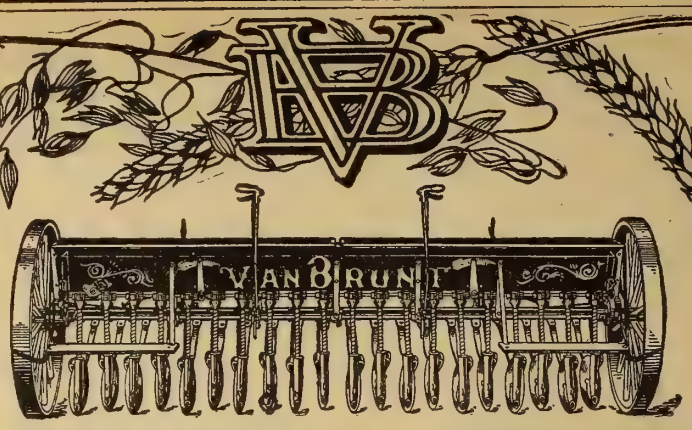

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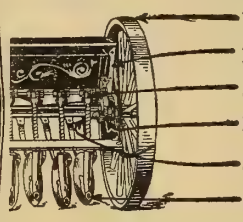
This Van Brunt invention made disc drills popular. Positively makes a good seed bed in any ground that can be seeded. Trash, gumbo, or mud have no terrors for the Van Brunt. Bearings glass hard, guaranteed for life of drill.

Adjustable Gate Force Feed

Plants wheat, rye, flax, oats, or any grain in a continuous even stream without bunching or damaging a kernel. No gears to shift when changing feed.

These Features Made Van Brunt Famous



- Wheels always stand true
- Hopper trussed—don't sag
- Adjustable gate force feed
- Bearings extend under frame
- Adjustable spring pressure
- Every seed at bottom of furrow

These Van Brunt Drills are made in all sizes with interchangeable single discs, double discs, shoes, or hoes.

Grass seeder attachments can be furnished on all sizes.

Every Van Brunt feature the result of fifty years successful experience.

Write us for new book, VB No. 27

JOHN DEERE PLOW CO.
MOLINE, ILLINOIS

That Necessary Inch

Like a pole that doesn't quite reach; a rope that is a bit too short; a bar rail that continually drops out of the post, the fertility in ordinary soil lacks the necessary small amount of available fertility for a bumper crop. There is enough fertility of a kind in the soil for many years; but it is unavailable. Only enough becomes available each year to produce small, unprofitable yields; and when all other conditions are right for a large yield the crop fails for lack of **available** fertility. Available fertility is the kind provided in the

EMPIRE FERTILIZERS

These fertilizers supply to growing crops in available form the plant food elements required which in connection with good seed, cultivation and weather and the plant food supplied by the soil and air, are producing good crops of profitable size and quality. Farmers depend upon them as upon other old friends, and have done so for years.

Agents wanted where we have none. Address early for prices and terms,

EMPIRE CARBON WORKS
429 Locust Street, St. Louis, Mo.

HORTICULTURE

ORCHARD MANAGEMENT.

To the Editor of The Homestead:

Every farm should have its own orchard. This should be large enough and of sufficiently well-chosen varieties to supply the family needs the entire year. It is desirable, too, that the varieties be of the best that can be obtained for the peculiarities of each farm as well as the likes of the users of the fruit.

Much is to be considered in locating an orchard. It is desirable that the orchard be near the dwelling. Of course, school, rural route and town conveniences weigh heavily in locating the dwelling and it is best to have these three features chosen correctly as they are permanent. If these compel the location of the dwelling so as to cause an unfavorable location for the orchard it may be well to have the orchard some distance from the house. Windbreaks can be grown of catalpa, cottonwood or some other valuable tree if necessary. Points unprotected from the heavy winds which come when the apples are large and nearly ripe should be avoided if possible. The land should be well drained and free from hardpan or alkali. A southern slope is good for coloring the fruit, while a northern slope is more protected from winds. In the latter case the trees will not be so forward in the spring and thus the late frosts have less chance of injuring the premature budding of the trees. However, fruit raised on a decidedly northern slope is less highly colored, has a poorer flavor and is not quite so salable.

Every farmer cannot be an expert orchardist, but every farmer can learn enough about it to raise an abundance of fruit for his own use. The amount of fruit that an acre of ground will produce when properly cared for will surprise those not accustomed to it, while a dozen well-chosen apple trees will often produce more fruit than a large family can consume in an entire year if proper methods of canning, drying and preserving are used while the apples are ripening. The land cannot be too well prepared. The ground should be deeply plowed in the fall and thoroughly pulverized.

Your success depends very much upon the varieties chosen. An apple that is a leader in some states or even counties may be at the end of the list in an adjoining county. Select therefore the trees that you know are a success or do the best in your own particular locality, regarding any deviation from that as an experiment only. Always insist on getting good stock. This does not call for the largest, but should consist of strong, healthy, unbruised plants of fair size for their age with good roots. These trees should be typical of the variety. It is not economy to purchase low-grade stock simply because it costs less.

Best results follow spring setting. It should be borne in mind that taking up and resetting a tree is a critical time with the tree and nothing should be left undone that will promote the chance of the tree growing. In taking up many of the roots are broken or cut off and in order to do well the top should be cut back to correspond with the root loss. Broken, bruised or badly injured roots should be cut back to healthy wood. Cut off the root with a smooth, slanting cut on the bottom side. Dig a large hole so that all the roots can lie in their natural position and set about two inches deeper than the trees were before being taken up. Carefully fill in between the roots with mellow dirt, allowing no rubbish or manure to enter the hole. Press this dirt firmly about the roots being careful to set the tree straight and not bruise it. Apple trees do best when set at least thirty feet apart each way. Trees one year old grow better and are cheaper as well as being the most satisfactory to set and tend.

The young orchard should be given every possible chance to grow rapidly. The conditions that are favorable to growing corn are as good as can be devised for young apple trees. If corn is planted in a young orchard care should be taken to keep the rows far enough away from the trees so that the growing corn will not injure the trees or so that the trees will not be debarked by the singletrees of the tools used in cultivation. A young orchard should never be set in sod. The best of soil and cultivation are none too good for a crop from which we wish to gather crops of delicious fruits for a score of years.

Danger of injury from mice and rabbits should not be overlooked. Wrapping with cornstalks is very good and costs but little. Mulch and manure should not be allowed close to the trunks of the trees as mice will nest there and girdle the trees near the ground, which is ruinous.

In pruning the tree have your object

Genuine—Unadulterated

No matter how **valuable** your land. No matter how much you **weed, hoe** and **dig.** No matter how much the sun shines or how much it rains, nor how much you irrigate your land; **and all these things represent money.** Your efforts are all in vain and the money lost if you get cheap seed. Why take a chance even if you get your seed for nothing, on stale, low-germination test inferior seed when you can get **Pure—Genuine—Unadulterated** seed from us? We sell only one quality—no second or third grades.

50c Collection Only 10c

All packed in big envelope which is good as part payment on future orders. Good for 25c on orders of $1.00 or more. Collection contains one regular 10c packet each of **Champion Pickle Cucumbers, Matchless Tomatoes, Prize Head Lettuce, Southport Globe Onions and large G-B Mixed Sweet Peas.** Nothing like equal value ever offered before.

FREE SEED BOOK
New--Original--Different

Here's the greatest seed book of the year—special field articles by Prof. M. L. Bowman, recognized authority on seeds.

Send for it today, enclosing 10c for our famous 50c collection of Pure seeds.

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Galloway Bros. Bowman Co.
Waterloo, Iowa

YOUR NAME IS WANTED

By the **D. Landreth Seed Co.,** Bristol, Pennsylvania. Send it and if you mention this paper you will receive one 10c. packet of seed of

Landreth's Red Rock Tomato

the best tomato ever introduced, and one of our fine

NEW SEED CATALOGS

D. Landreth Seed Co.
Bristol, Pennsylvania

clearly in mind. The form of the tree is important. Avoid crotches to split when the tree is heavily laden with fruit. The tree must be strong to bear its burden and the branches spread sufficiently so as to admit light and color and flavor the fruit. No two branches should emanate from the same place on the tree. This is sometimes hard to secure, but keep your trees as nearly right as possible. In removing branches use care to make smooth wounds. Leave no ragged traces of careless methods. All dead branches should be removed and the tree left as well balanced as possible.

The question of fertilization needs much emphasis. The production of heavy crops of fruit draw heavily upon the fertility of the soil and unless something is done to maintain this fertility soil exhaustion is sure to follow, resulting in unproductive orchards. For this nothing is better than fresh wood ashes with well-rotted stable or barnyard manure second in value. If these are not to be had crops of clover allowed to grow to full size and plowed under is very good. If none of the legumes can be used rye, buckwheat and rape do quite well.

Tillage is the fundamental factor in progressive orchard management. The offices of tillage are many. Among the most important are: The setting free of the plant food; the ground is made finer for the penetration of the roots, and the soil is kept in condition to absorb rainfall more quickly and completely as well as to retain the moisture. Injudicious cultivation when the soil is too wet will do more harm than good and the best of cultivation cannot bring back the former condition during the whole summer. Such mistakes are costly and much care should be used not to cultivate the orchard when too wet.

James Wiltse.

THE ANNUAL FLOWERS.

Very much disappointment is experienced in trying to grow plants of the various flowers, which are such desirable ornaments to the summer garden. The common errors of management which lead to failure are planting the seed too early—when the ground is cold—and planting too deeply so that the delicate plants cannot emerge from the soil— and failure to maintain the right degree of moisture so that the seeds can germinate.

It usually takes some unfortunate experience to impress these facts upon the minds of would be florists. A good general rule to observe is this —cover all seeds only about twice the diameter of the seed used. There is also much to be considered about the kind of soil used. The tender shoots will force their way through a covering of fine sand twice as thick, as though the covering were of clay or loam, which inclines to pack. And again success in starting plants depends very much upon striking the proper time to plant.

We must remember the universal rule that heat and moisture are the two conditions which start growth. You may have sufficient moisture, but if the weather is cold the seed will rot and not grow. On the other hand, you may have a warm soil, but if there is a lack of moisture the seed will dry out. It should be noted that in dry seasons the covering of new planted, delicate seeds may be heavier than when there is an abundance of moisture, but the best way is to supply the moisture yourself, from a sprinkling pot, when nature is deficient or untimely in her supply.

Those flowers which have large seeds like sweet peas, nasturtiums, etc., make but little trouble for they may be planted so deeply that germination is secured before the soil has time to dry out. They are among the rough and ready plants, which stand much earlier planting than the most of garden favorities. When we come to growing salvia, coxcomb, pansies, asters, etc., we must exercise more care and patience. If seeds are to be sown in the open never begin operations until the ground is thoroughly warm.

And then if plants are to remain where the seed is sown use extra care to conserve moisture. It is understood that the ground must be thoroughly prepared, pulverized until no lumps are left. Rake it smooth and level. Now scatter the seed carefully and sprinkle over the bed a little fine sand. Now with a wide board press down the soil firmly. Then sprinkle lightly and place over the bed a thin shade. This may be a cotton cloth laid upon the ground, or it may be tacked to a frame, but if the hot sun of the first of May is upon you the shade is needed. And the sprinkling will be called for every evening. It takes some seed longer to germinate than others. So the grower must not be discouraged, if some come a few days in advance of others, but patiently maintain the required conditions of moisture and you will be rewarded in due time. If the plants come thickly you will need to thin out before a good healthy growth can be secured.

Reset the plants which you remove about an inch apart each way. Do this at evening, and shade with a cloth for a day or two, giving plenty of water and they will at once start into a vigorous growth.

This system of plant growing will give you plants at the usual time and flowers at the usual time, but there is a way by which you may get bloom a month earlier and that is by starting the plants with artificial heat. This may be secured by a hotbed or by using a south window in sitting room or kitchen. Whichever plan you adopt it is best to sow the seed in "flats." The flat is a shallow box of size convenient for

Is Your Home Sheltered?

Save dollars by saving heat. A wind-swept home is a cold home. Shivering cattle take on no fat. Cold hogs make the smallest gains. Wind-tossed chickens lay no eggs. Protected gardens get the earliest start.

TRANSPLANTED
100 EVERGREENS $7.50
Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of

IOWA'S GREATEST EVERGREEN SPECIALIST.

I ship direct from the ground on the day the order is received. The trees you buy of agents have been out of the ground often three weeks. That is why they don't grow. Buy direct of me and you will be satisfied. We can also sell you prize-winning

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FERRY'S SEEDS

Market gardeners and large planters everywhere place absolute confidence in Ferry's seeds. Professionals make their profits by knowing where to put their trust. Ferry's vegetable and flower seeds have averaged best for half a century. They are pure and they are vital. For sale everywhere.

1913 Catalogue free on application.
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Seed Corn that Tests 95% to 100%

This is our guarantee. Packed in each crate or bag is a slip showing the actual germination test. **Test the corn yourself 10 days.** If not up to guarantee, return at our expense. We own 1000 acres of the best corn land in the world. On these farms we grow our seed corn. Ours is one of the largest and unquestionably the most modern seed corn building in the country. Corn dried on racks; hand picked three times. Corn all in plant by Nov. 12th. All standard varieties. Corn bred for high yield. VISITORS WELCOME. **Send for our big convincing catalogue.** FREE. Read our offer to pay your railroad fare to visit us. See testimonials stating that our corn has produced from 5 to 25 bushels more than crib dried seed. Our prices are reasonable. Address

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BEST IN THE WORLD
Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

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Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

259 Bushels per Acre
Yes, Sir! With
SALZER'S
Rejuvenated White Bonanza Oats

That is the record, actually produced by Mr. Theo. Harmes of Lewis County, Washington. The facts are verified and proved. Salzer's Rejuvenated Oats are the greatest oats ever put into the ground. Have stood at the top for more than twenty years. Won $500.00 in gold open to the world for the heaviest yielding oats. We have rejuvenated this oat and the result is an oat stronger in straw, healthier, larger, plumper, meatier kernels, yielding from 20 to 50 bushels per acre more than the old White Bonanza Oats. There is no finer, plumper, handsomer oat grown in the United States. This is the oats that every grower should plant in 1913. Write today for prices and special premium offer.

Salzer's Seed Corn

Golden Glow (Wisconsin No. 12)
Silver King (Wisconsin No. 7)

You cannot go wrong on either of these. Silver King is the corn that has made Wisconsin first in yield per acre west of Ohio. Golden Glow has yielded over 100 bushels per acre. This is corn with a pedigree. We select our seed corn with the greatest care, and every ear is tested for fertility.

Salzer's Alfalfa

Three times the feeding value of Red Clover and Timothy. Hardy. A big, quick, continuous money-maker. Pure seed. Let us quote you prices. Salzer is IT in this country on Alfalfa. Keep that fact in mind.

Salzer's Potatoes

We are headquarters for seed for the great potato growers in the Northwest. Our earliest varieties and later sorts are veritable bonanzas as money producers. Change your seed stock this year while potato prices are low.

10 Big Sample Packages 10c

For ten cents we gladly mail one package each new $1,000 prize Marquois Wheat, Twentieth Century Alfalfa, Rejuvenated Bonanza Oats, Silver King Barley and other farm seed packages, together with our great seed book.

We sell direct, cut out all useless profits, give you lowest prices and add valuable premiums free on purchases of 50 cents and upwards. Look over our Premium List. See what you can get free for the farm, home and kitchen. Our catalog for 1913 is a big, handsome book—just what you need for reliable information, choicest seeds and lowest prices.

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Big Money in Oats
AND HOW TO GROW THEM

I want every reader of this paper to write me for my new book, "Big Money in Oats and How to Grow Them." Just mail me a postal or a letter giving me your name and address and I will send you this valuable book together with a free sample of our pure Canadian Grown Regenerated Swedish Select Seed Oats. This book was written by Wm. Galloway, Professor M. L. Bowman and other seed experts. It contains priceless information worth real money about how to make big money in oats, how to make a seed bed, how to start a seed patch, how to make oats stand on rich ground and how to grow a bumper crop of oats. It is profusely illustrated by photos taken from actual life and contains, besides, facts, figures and opinions given by farmers all over the country. Now, remember, this book is **free** for the asking and we will send it to you together with a free sample of the oats or, better still, enclose 10c to cover packing and postage, and we will send you an extra big sample packet, or for 25c we will send you a triple size and for 50c a packet three times the size of the 25c packet. In addition to this, after you have had a chance to examine the sample oats, if they suit you, as I know they will, you can return the empty packets to us and we will accept them the same as cash in part payment on any future orders you may send in. Can you beat this offer? Never.

Feed Your Old Oats to the Hogs

Better feed your old oats to hogs or the horses, or sell them. You can afford to do it when you stop to figure up the net results between our seed and ordinary seed. For instance, which is cheaper—Genuine Imported Regenerated Swedish Select Seed Oats that germinate nearly 100 per cent—every oat sprouting—Fresh, Hardy, Full of Life and Vitality—or oats that are half hulls full of weaklings, that plainly prove they are inferior and run out? Our thoroughbred Imported Canadian oats cost a little more than common seed at the start, but if you pay twice the price and receive common seed for nothing, our oats would be cheaper and bring in the most profit. It's net results that count. Here's the proof.

J. E. Andrews, Dassel, Minn., writes: "Yielded 105 bu. to acre." Oscar Kling, Alamose, Colo., writes: "Yielded 141 bu. to acre." H. Hendrick, Roanoke, Ill., writes: "Got 95 bu. from one acre." A. J. Barber, Clinton, N. Y., writes: "Galloway, you are right. Last spring I bought some seed oats of you Just threshed. Yielded 80 bu. per acre."

Write For New Free Oats Book

We'll tell you how to put your oats growing back on a money making basis—Discard your old in-bred seed oats and start your crop this year with our Regenerated Swedish Select Seed Oats. They'll make you big money.

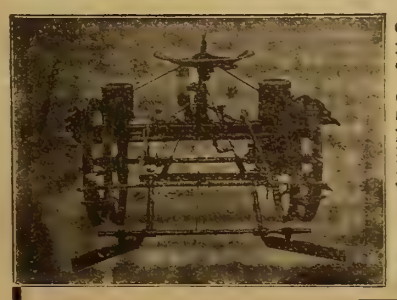
You can raise 75 to 140 bushels to the acre with our seed. Imported direct from Canada. Extra fine. Send for free sample. It speaks for itself. Our customers who bought from us last year raised from 75 to 140 bushels to the acre against one-eighth to one-half as much from their old seed, which proves our statement that farmers need a change of seed oats in this country.

We specialize on extra fine Seed Oats on our big Canadian Farm—new, clean land—and grow the Genuine Regenerated Swedish Select Oats which have broken all records. Specially bred to suit climatic conditions in the U. S. Matures from 12 to 15 days earlier than other kinds. Extra large white berry. Thin husk. Stiff straw. Tremendous yielder. Rich in protein, and just the oat you have been looking for.

Why not start a seed patch on your farm this year? It has paid others big. It will pay you. Write us early. The demand for our seed is tremendous. Last year we had to return orders we could not fill. Write early. Demand tremendous. Supply limited.

Address WM. GALLOWAY, Pres., Seed Oats Specialists
Galloway Bros.-Bowman Company
Box 102, WATERLOO, IOWA

GREATLY INCREASE YOUR YIELD OF CORN



By planting your corn at a uniform depth and having it evenly and perfectly covered.

THE POLO PLANTER ATTACHMENT

can be attached to any corn planter in a few minutes time. It covers all the seed the planter fails to cover and saves one harrowing of your entire crop. It fills the furrows left by the planter wheels. It spreads the water and leaves loose earth over the seed. Recommended by practical farmers.

COSTS BUT $5.00 WORTH HUNDREDS TO ANY CORN GROWER

Write for particulars

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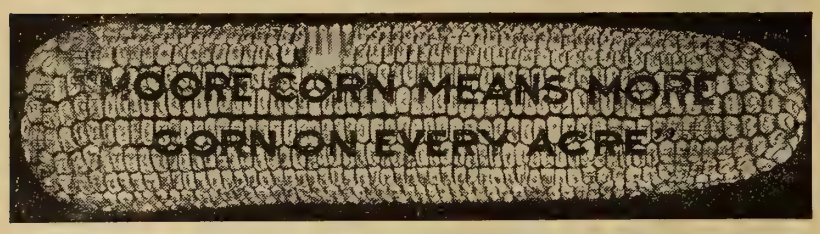
SAYS Mr. Up-to-date Corn Grower:—Your copy of THE MOORE CORN BOOK FOR 1913 is ready for you. Why don't you write for it TODAY?

IT TELLS: How to make every acre yield $7.50 greater net profit! Where to buy farm seeds adapted to your farm; Why my "Bred for Yield" strains of corn will average an increase of ten bushels per acre above even the best pure-bred varieties! Reveals the secret of corn breeding! WRITE FOR IT TODAY. Address

C. RAY MOORE, - Box 33, Kellerton, Iowa.

"The Man Who Does Things With Corn."



ON MY SUNKIST FARMS I GROW HIGH YIELDING STRAINS OF SEED CORN AND OATS FOR THE BEST FARMERS IN THE CORN BELT. ARE YOU ONE OF THEM? C. R. M.

More Corn—Better Corn

You can have the benefits of better planting and vastly better crops with the **Hayes** Four-Wheel. Every kernel planted *exactly the same depth*—every hill in *perfect* check—an even stand—*surer* germination and *quicker* growth—no missing hills, *no bare spots* in your fields; such conditions will mean *more* corn for you, *better corn, more money.*

This planter is *guaranteed.* It *must* be all we claim and all you expect. 160,000 users verify that **Hayes** Four-Wheels regulate depth of planting to the *fraction of an inch.* Corn all comes up at the same time, allows earlier cultivation, an earlier harvest, a *better quality* and *bigger quantity.*

Hayes Four-Wheels guarantee *surer germination* and *quicker growth.* Wheels pack the dirt around the corn to hold the moisture and leave a *ridge of loose soil* on top. Ridge over corn prevents washouts in hilly fields and gives greater surface for sun's heat.

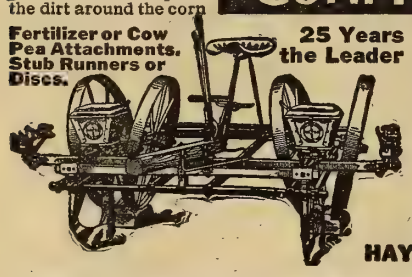
Covers where all ordinary open wheels fail—even in wet and sticky ground. Guaranteed not to clog. Short coupled, light draft and turns in shortest space. *Checks with absolute accuracy,* regardless of team's speed. Cross rows straighter than the way you drive.

The **Hayes** Drop *never misses a hill.* Simple, reliable and most efficient. Fewer parts, less breakage, and delays. Has no clutch to miss and give trouble. *Never cracks or grinds the seed.* Will drop accurately any size or shape kernel. *No bare spots* in **Hayes** planted fields. No replanting necessary. Increased yields soon pay for it.

Hayes Four Wheel Corn Planter

Fertilizer or Cow Pea Attachments. Stub Runners or Discs.

25 Years the Leader



Thousands in use for years with practically no repair expense and every one giving *time-saving, money-making* service. No complicated parts to get out of fix. Strong construction *practically exempt from breakage.* No expensive and aggravating delays in the busy planting season. Easy and simple to operate and can be trusted to unskilled help.

1,500 dealers. Ask your dealer or let us prove how this planter prevents corn field waste and increases corn yields. Don't make a mistake. Buy the planter that *guarantees* results.

Free book "P" of Planter Facts tells all about the **Hayes.** Write for it today—a postal, or if you wish a letter, asking any questions on planting problems.

HAYES PUMP & PLANTER CO., Galva, Ill.

Thresh Your Grain with an Avery and Save It

There is just one way to **absolutely prove** what a separator will do in saving the grain and that is to make a field test. We wanted to be able to prove definitely what an Avery "Yellow-Fellow" Separator will do in grain saving, and so for three years we made field tests in different states. 27 tests were made. The average saving in the 27 tests was **99 9-10 per cent.**

Think of it! 27 **actual field tests** and an **average saving of 99 9-10 per cent—practically perfect.** That's the wonderful grain saving record made by Avery "Yellow-Fellow" Separators. **By far the best proven grain saving record ever made** by any make of separator. An Avery puts the grain in the wagon and not in the stack.

Avery Separators also do **good cleaning, thresh fast, and run steady.** Breakdowns with idle crews lying around at big expense are practically unknown with an Avery "Yellow-Fellow." Teeth are tool steel and **guaranteed for life against breakage.** An Avery gets there and gets away.

Ask for Free Avery Separator Book With Grain Saving and Other Facts

AVERY "Yellow Fellow" Grain Saver Separator

Interests every thresherman because it tells him how to do better work, get more jobs and make more money. **Interests every grain growing farmer** because it tells him how to save more grain—get it cleaned better—and get his threshing finished on time. Whether you're a thresherman or a farmer you need to know all about the grain saving and other facts told in this Avery Book. Ask for Free Book.

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SEED CORN

THE PROFIT and all the best varieties of choice, selected, throughly tested seed corn, which have yielded immense crops. **Costs only 40cts per acre for Seed.** Large descriptive catalog of Seed Corn and all kinds of Farm and Garden Seed mailed free. ***Iowa Seed Company,*** Dept. D1 ***Des Moines, Iowa.***

"More Potatoes"

From ground planted secured by use of The KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate, A simple, strong, durable machine. Write for CATALOG, price, etc.

A. J. PLATT, MFR.
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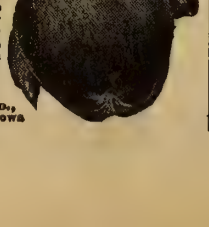
APPLE TREES FOR TESTING *FREE*

Our "BLIZZARD BELT," Foster mother root Apple Grafts make vigorous, long lived, heavily fruiting trees, because they grow their own **hardy roots.** To prove their worth we will send you 2 GRAFTS (rooted ready for planting) FREE, or if you send 10c for packing, will send you six grafts. Write today.



The Gardner Nursery Co.,
Box 505 Osage, Iowa

handling. It may be one foot by eighteen inches with sides three inches high. Or you may use cigar boxes. Put into these two inches of well-prepared soil. This should be a mixture of sand, garden earth and well-rotted manure one-third of each. After sowing seed press down and cover as before.

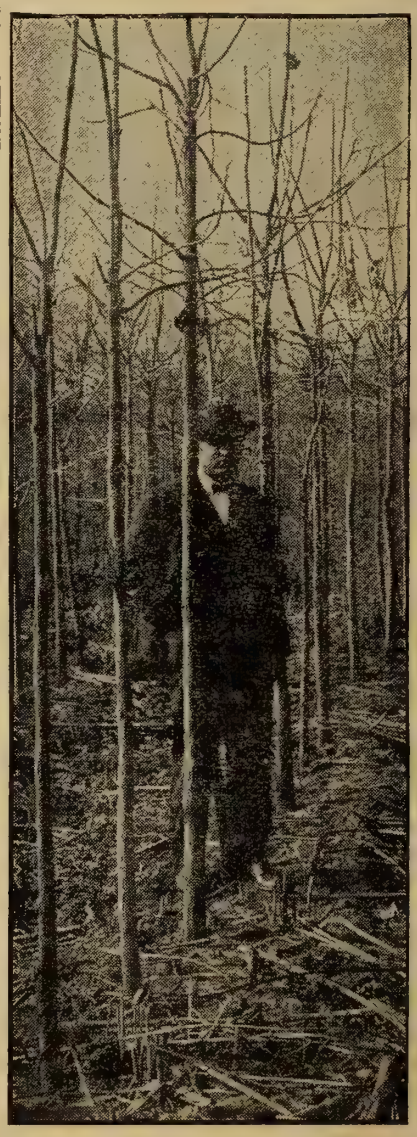
Shade as in the first case. Watch carefully to see that just the right conditions of heat and moisture are maintained. If too hot give more shade and if too dry more moisture. If these rules are observed you may grow an abundance of good, strong plants, enough for your own garden and some for your friends. Try it and see how satisfactory to grow your own and good ones.

POSSIBILITIES IN SPECIOSA CATALPA FARMING.

To the Editor of The Homestead:

On account of the confusing of the common scrub catalpa with Speciosa, the big timber variety of catalpa, farmers of the middle West have overlooked a rich opportunity just beneath their feet in Speciosa catalpa farming. It is largely the far-sighted and shrewd business man who has already investigated this field and is now buying up suitable land to go into this industry.

The Speciosa catalpa is a native of America and until 1818 was not known to exist anywhere in the world except in a restricted portion in the river valleys of Indiana, Ohio and adjoining states. Its high value as



timber, and its ornamental flowers, attracted the attention of early settlers and it was soon distributed to all parts of the country. The first settlers found the Indians using the catalpa in canoe building. The light weight of the wood, strength, durability and lasting qualities, appealed to them. Whether in water or mud, or exposed to the sun, they found it proof against checking and cracking.

Early in the nineteenth century General William Henry Harrison, later president of the United States, called attention to the catalpa as a useful and valuable tree for artificial planting. Dr. John Warder, a former president of the U. S. Horticultural Society, also investigated its growth and habits, and was first to make it clear that there was more than one type of catalpa and that the Speciosa was a distinct variety of much value.

The demand for wood will always exist. The use of building materials is increasing with our population and nothing yet invented or discovered can supplant wood as a building material.

Railroads are being pushed into every corner of our land, and an ever-enlarging network of interurban electric lines is connecting our towns and cities. Ties and poles must be obtained from somewhere not only for the first construction of these steel highways but also for the upkeep afterward. As our population grows, farms are being cut up and new homes established. The open range is almost a thing of the past. Where there was one mile of fence fifteen years ago, ten miles are needed now.

In artificial tree culture lies the only hope of relief from a threatening timber famine. The ease with which a grove of trees may be planted and maintained and the returns it insures, commends forest farming to the enterprising farm owner. He considers his grove of timber trees of as much or greater importance than his orchard, garden or potato patch. One planting and a little care is all that is needed in a lifetime but the crop is always ready for harvest after five to eight years' growth. He

A valuable Free Book on CLOVER

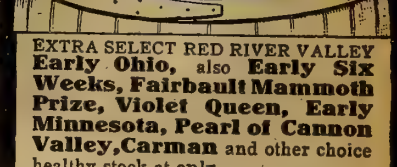
A gold mine of information

We have just published a wonderful new book entitled "Clover, the Great $Cash Money Crop$." This book is truly a most remarkable source of information on the subject of clover raising. For the first time the opinions and experiences of the world's greatest clover authorities and practical growers have been gathered together in printed form. Every question you can think of is fully answered. It tells you how to get a sure "catch" first planting; how to keep clover in the rotation; about clover as a soil enricher; how to handle the crop for hay and seed production; how to grow clover that makes richer feed—that produces more beef and more milk—that puts immediate cash money in your pocket. It explains the cause of clover failures; how to avoid winter killing; how to prevent ground heaving; how to guard against the loss from heat and drought; it tells all about the causes of "clover sickness" and how to deal with it. These and hundreds of other questions are answered, covering sixteen clover varieties, including Red, Mammoth, Crimson, Alsike, Sweet, White, Yellow, Japan, Berseen, Burr, Serradilla, etc.

This book is a gold mine of information to the farmer who is looking for bigger and better results. Ordinarily this book is sold for 35 cents per copy, but for a short time we will mail a free copy, postage prepaid, to the readers of this paper, or until a certain number have been distributed. If you will write at once you will be sure of getting a copy by return mail.

GALLOWAY BROS.-BOWMAN CO., BOX 108 M WATERLOO, IA

SEED POTATOES



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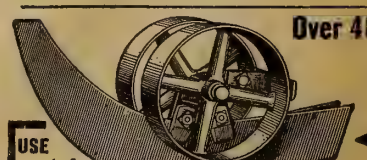

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USE a set of our improved No. 4 Rotary Shoe Gauges on your Corn Planter, and we'll **Guarantee 5 to 10 Bushels more Corn an acre**—every hill planted at a uniform depth—your corn to come up **all** at same time, or you get your money back. **Send only $5** to us, and we'll deliver a set to your nearest R. R. Station by **freight prepaid.**

P. O. KELLER MFG. CO., Waterloo, Iowa
Send for our FREE booklet, "3 Ways to Plant Corn"

needs not replant every year and crop failure is unknown.

The first great essential in forest farming is to select the right tree. It must be adaptable to the demands made upon it, quick maturing, easily grown, the wood durable, resistant to insects and weathering, and easily wrought. The tree that meets these requirements far better than any other is the Speciosa or hardy catalpa. It is unanimously recommended by unbiased authorities such as the officials of the U. S. Department of Agriculture, experiment stations, forestry societies, and the owners of extensive catalpa plantations in many states.

Until the last fifteen or twenty years the catalpa was planted and grown in an irregular sort of way. Today there is no other timber tree so widely used in artificial planting for commercial purposes and returning as handsome a profit. The great drawback to catalpa growing prior to the present period was the unfortunate mixing of seeds with the worthless varieties. Failure followed and the catalpa was given a black eye wherever this happened.

The Speciosa catalpa has a characteristic deeply furrowed bark, with a tall, straight trunk when grown in a plantation. It bears only two or three pods to the cluster and very few clusters to the tree. The common variety has a short trunk with a scaly bark, many branches, and bears seed in great quantities. The seed has five times the germinating power of true Speciosa.

It is due to the fact that the scrub catalpa is so common and cheaply produced that the country has been flooded with it by unreliable nurserymen or tree dealers, representing it as Speciosa catalpa.

Kansas. J. Moncrief.

SEEDS. Fire dried SEED CORN husked before the frost, dried on independent seed ear racks with air and steam heat. Sure to grow because germ is preserved. Also Clover, Alfalfa, Oats, Rye and Garden Seeds. Write at once for FREE CATALOG and receive FREE SOUVENIR. Address

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Kherson Oats. DOES NOT RUST OR LODGE Recommended by experiment station and the best farmers. Yield 112 bus. per acre. We also have Swedish Select, White Shonen, Mammoth Cluster and Danish Side Oats, Seed Corn, Grass and Garden Seeds, and Pure-bred Poultry. Send For Free Catalog.
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OUR "PURITY BRANDS" of red clover, timothy, alfalfa, alsyke and other farm seeds average nearly 100 per cent pure. All guaranteed to pass severest tests of your State Agri. College. We have the best cleaning plant in Iowa and for more than 20 years our seeds have been the standard of purity. Buy our hardy northern variety. The Adams Seed Company, Box 61, Decorah, Iowa.

5,000 BUSHELS SEED CORN

From seed corn center of the world. Reid's Yellow Dent, Silver Mine, White Cap Yellow, Legal Tender, Blair Yellow, Nebraska White Prize, Pride of the North, Blair White. Send for free catalogue.
AYE BROS., Blair, Neb.
Box 1. Seed corn center of the world.

SEED CORN at farmers' prices. Reid's Yellow Dent, Iowa Yellow Dent 90 day, Iowa Silver Mine, Boone County White and Big Bloody Butcher; germination practically perfect; prices $1.75 for seed shelled and graded, selected ear seed in bags $2.25, in crates $2.50; 15 lbs. free with 5-bu. lots, or over, any variety. We ship on approval. Write for catalog and free samples. **BOTNA VALLEY SEED CO., Box E, LEWIS, IOWA.**

SHULTZ GRASS SEEDS Our Red Top grass seed is the best you can buy. We also handle Cowpeas, Millet, Cane, Timothy, Blue Grass, Alfalfa Red Clover Alsike and Sweet Clover. Send for sample prices. Address **Shultz Seed Company, Olney, Illinois.**

SEED OATS

FINEST Swedish Select and Kherson, bred for heavy yield and strong straw. Also **SEED CORN** Four of the very best varieties, all carefully grown and selected. Also other farm and garden seeds. Write for prices today. Mention The Homestead.
FRANK J. RIST, Humboldt, Nebraska

SUTTON'S SEED CORN

PICKED in a sack, dried on a rack before freezing weather comes. Guaranteed perfect germination. Sold on **10 days' trial.** All standard varieties. Increase your yield by using Pure Bred Seed. Write for FREE corn book today. Two big plants.
G. D. SUTTON CO., Dept. D, Mason City, Ill. Geneseo, Ill.

SEED CORN THAT TESTS

95 to 100 per cent—Paradise corn; germination guaranteed. Test the corn yourself 10 days, if not satisfied return at my expense and I will refund money. This corn is an early corn. It never fails to mature. It is a deep yellow, deep heavy grain, a little rough. I will send sample to any address. $2 50 per bu. **John Paradise,** Barnes City, Iowa.

Strawberries

FOR 40 years we have specialized on strawberry plants, and can furnish most any variety in any quantity desired at money-saving prices. All plants guaranteed. Send for money-saving list and full description. **Geo. W. Bridgman Nursery Co.,** Dept. A, Benton Harbor, Michigan.

JUNG'S SEEDS FREE

TO convince you that **Jung's Northern Grown Garden, Farm and Flower Seeds** are the best we will send FREE with our beautiful catalog a pkt. of Jack Rose, the earliest red tomato in the world. Write at once. **J. W. JUNG SEED COMPANY,** Dept. 14, **Randolph, Wisconsin.**

CIVIL SERVICE examinations open the way to good government positions. I can coach you by mail at small cost. Full particulars free to any American citizen of eighteen or over. Write today for Booklet O-1143. Earl Hopkins, Washington, D. C.

SEED CORN Reid's Y. Dent, Gold Leaming, Boone Co. White, 90 Day Y. Dent, for northern farmers. Early picked and dried on a rack. A post card will bring my 48-page Seed Corn Book. It's free to you, ask for it now.
H. Z. O'HAIR, - BUSHTON, ILLINOIS.

LETTER OF WARNING.

We believe that a large amount of money was saved by the farmers of the state last year by the early testing of seed corn. This department made tests of about one thousand samples sent in from nearly every county in the state. The result of these tests showed that at least 50 per cent of this corn was low in viability. On this account, we did all that we could to advise the public through the daily and agricultural press that all seeds should be tested before planting. The fact that we had an excellent stand and a good crop of corn last year is good evidence that our warning was heeded, and that most farmers tested their seed and eliminated all that was low in germination.

We believe that when you take into consideration the fact that the value of the corn crop for 1911 was $151,000,000.00 and that of 1912, still greater, we are safe in saying that several million dollars were saved by the thorough testing of seed corn last year.

We are not yet advised as to the condition of seed corn this spring, but beg leave to submit a few timely suggestions for consideration:

Buy early, in your own state, and so far as possible, in your own locality.

It is well to buy in the ear.

Do not buy on ten days' trial.

Insist on buying your corn, f. o. b. your own station, then if seed does not comply with the law, prosecution may be brought in your own county.

If you do not get what you buy, do not wait until July or August before coming to this department with your troubles.

A thorough testing of your seed may relieve you of the expense of replanting.

W. B. Barney,
Dairy and Food Commissioner.
Des Moines, Iowa.

"It is quite an art to make good catchup," announces the latest government official cook book just issued by experts of the department of agriculture as an addition to its series of popular recipe volumes. Incidentally the government's experts decide this: Tomato sauce is spelled "catchup," not "ketchup," or "catsup." The tomato is given first place among the vegetables by experts, because it can be prepared in a greater number of ways than any other vegetable. They point out that few dinners are complete without it, either in the form of soup, sauce, salad, vegetable, catchup, chili sauce, chow chow, relish, chopped pickle, green tomato pickle, tomato sweet pickle, piccalilli, preserved tomato, or tomato mice-meat. Recipes for these uses of the tomato are contained in the government's latest cook book.

Ask your neighbor to subscribe to The Homestead.

Great Bargains in Seed Oats

Have on hand a quantity of fancy recleaned seed. Practically perfect vitality and free from smut. Varieties listed below are absolutely highest yielders and perfectly dependable for corn belt seeding. Can ship very promptly, sacks free.

Kherson Highest yielding of any early oat—fine for seeding down with—80 cents per bushel.

Silver Mine A splendid medium early white oat. The very best for a large part of the corn belt. Extra graded fancy seed, 70c per bushel, 66c in 50 bushel lots.

Swedish Select The widely advertised later oat, 75c per bushel.

RUSH YOUR ORDER

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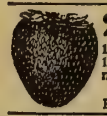
SEED POTATOES

Fancy northern grown stock. Superior to home grown in earliness and yielding qualities. Best extra early and main crop varieties. Strong and vital germ. Not frozen in cold storage. Ask for prices of carefully sorted stock. Large illustrated catalogue of Farm and Garden Seeds mailed free.
IOWA SEED CO. Dept **D1** Des Moines, Iowa

ALFALFA $9.75 Per bu.
Best Non-Irrigated Seed—99.6% Pure
95% Germination absolutely guaranteed. No seed better. We sell good seed for $8.00. Also have Turkestan alfalfa. Write now for free samples and save money. Our 76-page book sent Free, giving valuable information on growing alfalfa. Write today.
A. A. BERRY SEED CO., Box 403, **CLARINDA, IOWA**

SEED CORN

I HAVE 600 bushels of equal amounts of Reid's Yellow Dent, Iowa Silver Mine and Farmers' Friend, all pure bred and raised for me and gathered in October, sorted and placed on racks, dried by hot air. Will guarantee 90 to 100% will grow; 10-day approval. Price $2.00 per bushel in crates or sack, $1.50 shelled. Write for catalog. **W. F. SHINDLEY SEED HOUSE, LEWIS, IOWA.**



200 PLANTS $1.00
100 of that choice new variety Dunlap and 100 of two other choice varieties with our new book, "How to Plant and Grow Them"
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Route 3, Box 1 Des Moines, Iowa

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GROWN in CONRATH Gardens. We make a specialty of seed potatoes. Send for our new potato circular. IT'S FREE. **NORTH WISCONSIN SEED CO., Box 1, Conrath, Wis.**

SILVER PLUME

A BEAUTIFUL medium, early white oat with the stiffest straw and heaviest yielding qualities, 85c graded and sacked. Send for post card. Address **W. C. BRYANT, PRINCETON, ILLINOIS**

Clover Timothy, Barley, Sweet Corn and Field Corn, Pumpkin, Swedish Red Oats, Watermelon Seed, Alfalfa, Millet, Cane. Write for prices and sample. Satisfaction guaranteed. Hawkeye Seed Co., Lockridge, Ia.

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1912 GROWN, Evergreen sweet corn, grown from Connecticut seed; price $2.00 per bu.; no charge for sacks. **TIPTON CANNING CO., B. R. McGirr, Mgr., Tipton, Iowa.**

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WORLD'S FAIR seed corn, tested 98%, selected early in Sept., big yielder, early maturing. Also pure Green Russian seed oats. Write for prices. John H. Berry & Sons, Route 6, Iowa City, Iowa.

CLOVER, TIMOTHY

MIXED Timothy and Alsike, Alfalfa, Ky. Blue Grass, Dwarf Essex Rape, Seed Flax, Barley, and Oats. **SEED CORN:** Silver King and Early Yellow Dent. Special prices for early orders. Write today. The Hofler Seed Co., Nora Springs, Iowa.

SEED CORN Golden Row, Reid's Yellow Dent, Nebraska White Prize and Silver Mine. Gathered early and dried on racks in our furnace heated seed house. Write for 27th annual price list.
LEE SMITH & SONS, De Soto, Nebraska.

SEED CORN Reid's and Golden Eagle, a cattle corn, deepest grain and smallest cob grown, September picked and dried on hangers, best type and germination. Crated, $3.75. Shelled and graded, $2.75. Send for circulars.
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Kherson Seed Oats

MOST productive in seven-year test at Iowa and Nebraska stations. Twenty bu. or more, 85c a bu.
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C. & N. W. main line.

COTTONSEED MEAL

We want distributers in your section to push Owl Brand. Standard for 36 years. Popular because pure and easy to sell. Write for prices and plan. Address **F. W. BRODE & CO., Memphis, Tennessee.**

250 STRAWBERRY PLANTS $1.00

CHOICE of Sen. Dunlap, Warfield, Crescent or Excelsior. Send for **Free Illustrated strawberry Book.** Tells how to grow them. **The Wildhagen Strawberry Beds, B. 414, Waterloo, Ia.**

SEED CORN, TIMOTHY

and Millet seed that will grow, at farmers' prices.
EDW. DOOLEY, - - SELMA, IOWA.

GOLD MINE OATS

HEAVY yielder, stiff straw, the kind to raise, 65 cents bushel. Sample free. Address **GEO. BROWN, - Wilton Junction, Iowa.**

SEED CORN, OATS AND BARLEY

Price list; samples free. Allen Joslin, Holstein, Ia.

DRAINAGE You can drain your land without digging a ditch. Write for circular at once.
VERTICAL DRAINAGE CO., Clinton, Iowa

SEED CORN Hecker's Improved Red. High yield and early maturity. Happy Home Farm, Amboy, Ill.

Improved Reid's Yellow Dent seed corn, guaranteed to test 95 or better. Write for sample and prices; will ship on approval. Harry Nauman, West Liberty, Ia.

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We offer 500,000 First Quality Trees. All varieties of apples, peach, pear, cherry. Evergreens by the million. New Catalog for 1913 just out—Save money. Get our wholesale price list. Write today.
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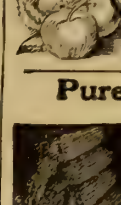
Pure Bred Seed Corn



Picked in September, sure growing, big yielding, Reid's Yellow Dent, Johnson County White, Leaming, Improved Silvermine, and Bloody Butcher, grown by us on Sunnyside Seed Farm which we own and operate ourselves. Send today for the free corn book giving full particulars, prices, etc.
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Splendid for early forage. Sow one bushel per acre with oats or spring rye. Harvest when the grain is in the dough. Big yield of first quality hay. Peas fertilize the soil like clover. Write today for price and circular of instructions. Catalogue of Farm and Garden Seeds mailed free.
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CLOVER $4.50 AND TIMOTHY Per Bu.
INVESTIGATE—Best and Cheapest Seeding Known. Alsike Clover and Timothy mixed. Fully 1-3 alsike, a big bargain. Greatest hay and pasture combination grown. Write for **Free Sample** and 76-page catalog and circulars describing this wonderful grass mixture. Beats anything you can sow and ridiculously cheap. We handle only best tested recleaned seed guaranteed. Write before advance.
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CLOVER New Crop Iowa Grown Recleaned TESTED and Inspected Red Clover. Also Mammoth, Alsike, Alfalfa and Sweet Clover of choicest quality.
TIMOTHY Blue Grass, etc., at low prices. Now is the time to buy.
Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.
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Early Ohios, all the best yielders. Pure northern genuine Red River stock. Grown from special heavy yielding seed, free from blight or scab. Guaranteed best seed stock. Write today for our 76-page catalog, "Secrets on Potato Growing. Double your yields and profits. One customer made $225 an acre. Write
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Prices bound to be higher later. Buy before advance and save money. Write today for special low price and free samples of our Pure Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Have alfalfa, alsike, sweet clover, all kinds grass seed. Write us now.
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Two Splendid New Varieties
Wonder of the age. Big Money Growing New Oats from our Imported Canada Grown Seed. Extra Fine. Send for Free Samples and 76-page Catalog giving full particulars. Write now and save money.
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We Grow Them, Sell Direct, and Guarantee Satisfaction. CATALOG FREE.
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200 Norway Spruce, 3 to 6 in., $1; 100 Arbor Vitae, 3 to 6 in., $1. Prepaid by mail. Many other $1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free.
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Seed Potatoes Red River Ohios. Extra selected seed corn, Reid's Y. D. Sample ear 15c. Clover and timothy seed. Also timothy and clover mixed, one-fifth R. clover, $4.00 a bushel. Sample and circular free. **THE ALL GROW SEED HOUSE, Knoxville, Iowa.**

250 Strawberry Plants $1

OR 100 evergreen seedlings $1.00, or 75 raspberry plants $1.00. Write for catalog and premium list. Address West Side Nursery, Box 1, Postville, Iowa.

REGENERATED Swedish Select oats. Recleaned 50c bu. Mandscheuri barley 75c. Clover and timothy seed. Samples. B. S. Strayer, R. 1, Hudson, Ia.

SEED POTATOES FOR SALE—Pure-bred, best varieties. Address Guy Anderson, Ogdensburg, Wis.

On YOUR Barn
So Your Stock Can Breathe
Fresh Air
Prevent Tuberculosis
BOOST YOUR PROFITS

YOUR cows, horses and other stock *must* have fresh, pure, life-giving *air!* Every horse and cow gives off *10 pounds* of invisible moisture *every day* full of *poisonous carbonic acid gas*, full of *unhealthy heat!* That *bad air*—must be carried away *quickly* and replaced with *fresh* air. *Bad air* is a breeding place for germs and disease—*tuberculosis!* Foul, moisture-laden air is what forms *frost* on the ceiling and inside of roof—frost that soon *melts* and *drips over everything*—keeps your barn damp, unsanitary, *dangerous*. 40 animals in a barn means a *barrel of moisture* coming out of the lungs and pores of the skin, with the foul air, *every day!* And *all* that moisture is *kept* in the barn, to be breathed and exhaled *again* and *again* by your stock, unless carried away.

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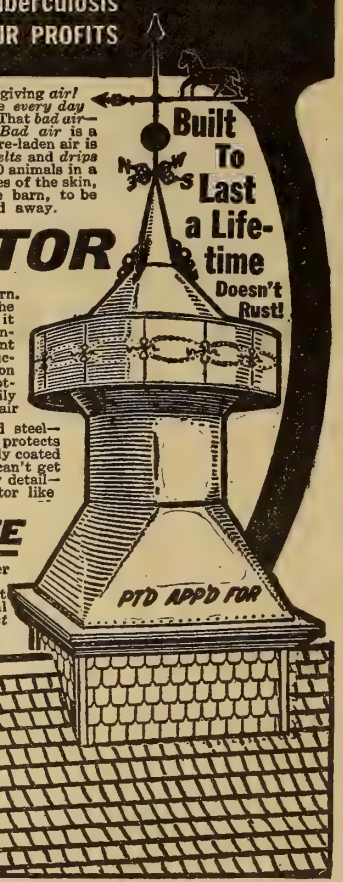

solves the problem of *correctly* ventilating your barn. It is absolutely automatic in action. Draws out the impure air and the moisture it holds, replacing it with fresh, pure dry air—without drafts. It insures the health of your stock—helps prevent tuberculosis, etc. It means a bigger milk production—more beef on your cattle—more muscle on your horses. It saves feed money—prevents rotting of barn—saves doctor bills for yourself and family now caused by going into damp barn full of germ-laden air

Lasts as long as any barn. Made of heavily galvanized steel—washers, bolts, braces screens—*all galvanized*. Shape protects the King against most severe wind pressure. Beautifully coated with alumimum. Screens keep birds out. Snow or rain can't get in. Built along scientific lines—absolutely correct in every detail—every feature protected. No one else can build a ventilator like the King Aerator.

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Let Me Send YOU
My Wonderful New
Galloway Sanitary Separator
On 90 Days' TRIAL FREE

I'm not asking you to buy it, understand that? **I'm not asking you to buy this separator or even promise to buy it.** I simply want to send it to you so that you can test it out right on your own farm free. I know what this separator of mine is. I know what it will do. I know that there isn't another separator in the world at any price that is even in the same class with it. I know these things because I have found them out by an actual, personal investigation of the separator itself right on my own modern dairy farm.

Why! when my own experts came to me and told me the results of their final tests on this machine on which they had been working for three years I'll confess I didn't think such things were possible. Now, *after testing the separator itself, I know that they were justified a hundred times over in every claim made.*

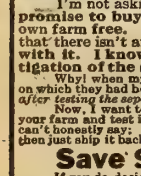
Now, I want to give you exactly the same chance I had. I want you to take this separator to your farm and test it in every way you can think of. Then, at the end of the free trial, if you can't honestly say: 'Galloway, I wouldn't be without the machine you sent me at any price'—then just ship it back to me. *I'll pay the freight both ways—the free trial won't cost you a single cent.*

Save $25 to $50 on the First Cost Alone

If you do decide to keep the separator after the free trial, I'll let you have it at *actual factory cost* with only *one small factory profit* added. You pay no middleman's profit—I sell direct from my factory to you.

Write for My Great Special 1913 Offer

Positively the greatest offer I've ever been able to make. If you will write at once, I'll tell you how you may get one of these wonderful separators *either partly or entirely free* and without any work or canvassing either.



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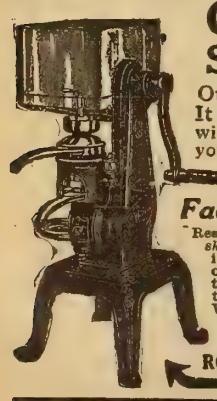

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DAIRY

THINGS I HAVE LEARNED ABOUT DAIRYING.

To the Editor of The Homestead:

In my somewhat limited experience in mixed farming I have learned a few things about practical dairying, but am free to confess that there are a great many things connected with that branch of husbandry that I do not know. I am, however, of the opinion that when a man has arrived at such a stage of perfection that there is nothing more for him to learn, or becomes so egotistical that he thinks he knows it all, he is a fit subject to pass on to a higher sphere as he certainly has no place in this modern world of progressive ideas.

Some eight years ago, when I made my first investment, I thought that anything that looked like a cow, whether streaked or speckled, was a valuable machine to turn roughage into a finished product and Midas like pour a stream of gold into the outstretched hand of the owner if he milked her twice a day and allowed her to sun herself on the south side of a straw stack and shiver at night in a cold, dark and damp stable. This idea, perhaps, arose from the fact that I had seen so many apparently well-to-do farmers who kept their cows much in the condition described. Investigation into the matter revealed the astonishing fact that such farmers literally kept their cows and aside from the fertility added to the soil and the occasional sale of a veal calf or stock steer everything else connected with the cows was a losing proposition.

I have also learned that it is a mistaken idea that the cow will shell down more butter fat if you allow the dog to chase her into her stall and pound her over the back with the milk stool because she don't "so boss" the instant she is spoken to. If under such circumstances the cow were to kick you into the gutter and then step on you it would be an act of retribution for an unjust and unprovoked assault.

I have also learned that it does not pay to keep a large herd of cows on limited pasturage, as the cow, like any other machine, must have an abundance of raw material to turn out a finished product in paying quantity. If the cow is obliged to fight flies all day and mosquitoes all night and be constantly on the go to satisfy her appetite, she is likely to rest after she has procured a maintenance ration and naturally has no surplus to turn into milk and butter fat. Of course the normal cow under such circumstances will produce a certain quantity of milk, as it is her nature to do so, but this is done by drawing on her own resources and it will gradually decrease as her resources become impaired.

In order to overcome this short-feed problem many farmers resort to soiling crops such as corn fodder and feed this in the pasture to the cows, but the question arises, does this method pay? Of course, I will admit that by such methods one can keep up a reasonable flow of milk, and of the two alternatives, allowing the cows to dry up or stimulating the flow of milk by this method, it would seem to be the wiser plan, but I have noticed that where cows are fed a limited amount of corn fodder or other soiling crops in the pasture they usually hang around all day and do little foraging. I think better results would be obtained by putting the cows gradually on full feed for a few weeks until the pasture had revived or other pasture became available.

I have learned by observation and experience that the true value of the dairy cow is determined by the scales and Babcock test, and no matter along what lines of breeding or milk-producing strain her ancestors may be traced, if improperly fed, housed and cared for, she will eventually fail of profitable production. By this I do not mean to imply that careful breeding along improved dairy lines will have no appreciable effect over the mongrel or scrub cow, but I do contend that even the scrub cow if properly handled and intelligently fed, will return a profit for her food and investment.

I have learned that the man with the silo is the same fellow who draws big checks from the creamery or cheese factory and the reason is apparent. This man has given some thought to the dairy problem in the study of cause and effect. He sees that in order to produce at a profit he must reduce the cost of production and at the same time increase the food nutrients, or in other words, so assemble the food that its several properties become available in the process of mastication.

I have learned that it does not pay to feed high-priced concentrates to dairy cows unless they are compounded so as to produce an adequate balanced ration with the roughage consumed by the cow and fed in sufficient quantity to leave a surplus over the maintenance ration.

I have learned that there are two ways of determining the needs of the cow. First, by weighing the milk night and morning and having it tested, keeping an accurate record of her production and feeding according to some well-established formula worked out on a scientific basis show-

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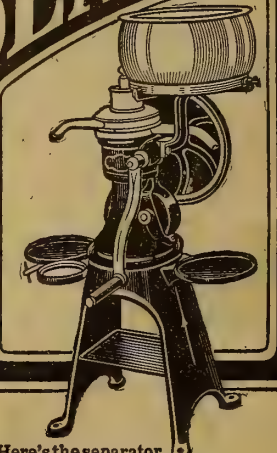

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ing the food value of the constituent parts of the concentrates. Second, by studying the cow as an individual, noting her physical condition with regard to her general healthfulness and whether or not she relishes her food and shows an increase or decrease in flesh, remembering that no absolute set rule can be devised for feeding, as individual characteristics must be taken into consideration.

I have learned that the scales and Babcock test will often demonstrate the fact that your best cow is proven to be one of your poorest, and your poorest cow often proves to be one of your best. I have learned that care, feed and breed are the A B C of successful dairying and that intelligent breeding along improved dairy lines will greatly increase the efficiency of the herd. J. J. Burke.

Barron county, Wisconsin.

KEEPING RECORDS OF DAIRY COWS.

Prof. C. H. Eckles, of the Missouri Experiment Station, in a recent bulletin relating to the keeping of dairy cow records points out that there is a vast difference in the amount of milk different cows will produce. One cow may yield three times as much milk and butter in a year as another on a third to a half more feed. One cow may be losing the dairyman as much money as another in an adjoining stall is making for him.

Clearly, it is desirable to keep only the profitable cows. To do this means that systematic records must be kept. No guesswork will do. No cow should be retained in the herd unless her milk and butter fat records shows she is profitable. At the Missouri Experiment Station one Jersey cow produced three times as much milk and butter per year for three years as another cow that was her half sister. The difference in the cost of feed eaten by the two cows was not great and both received the same good care.

The Illinois Experiment Station tested the herds of eighteen Illinois farmers, and found the same condition to prevail. The best ten cows averaged 389 pounds of butter in a year while the poorest ten cows averaged 109 pounds. They found at least one-third of the cows in the ordinary herds to be unprofitable. Many herds in other localities have been tested with the same results. It is the rule rather than the exception for cows in the same herd to differ widely in the milk produced. What the cow owner needs to know is, first of all, how much milk each cow produces and, second, how much butter fat it contains.

A good spring balance such as that shown in Figure 1 is the best for ordinary farm use. This balance costs from $2 to $3, and can be purchased from any dairy supply house. Scales may be obtained on which the dial is divided into pounds and ounces, or pounds and tenths as preferred. The latter is much more convenient in adding up the totals. This style of balance is provided with a hand or pointer which can be adjusted to stand at zero with any ordinary milk pail. This enables the weight of the milk contained in the pail to be read directly, without substracting the weight of the pail. Figure 2 shows the most convenient form of milk record sheet. Such sheets may be obtained for a nominal sum from the publishers of dairy papers. It will be seen from the illustration that each cow in the herd is given a column. Her name or number is written at the top. Each column is divided to give space for writing in the pounds and the fractions thereof, whether they are in ounces or tenths. The days of the month are listed on the left side of the sheet, and each day has a separate horizontal column for the morning and evening milkings.

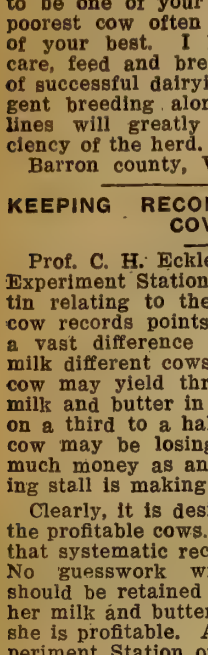

FIG. 1—A GOOD MILK SCALE.

A place is reserved at the bottom of the sheet for the total of each

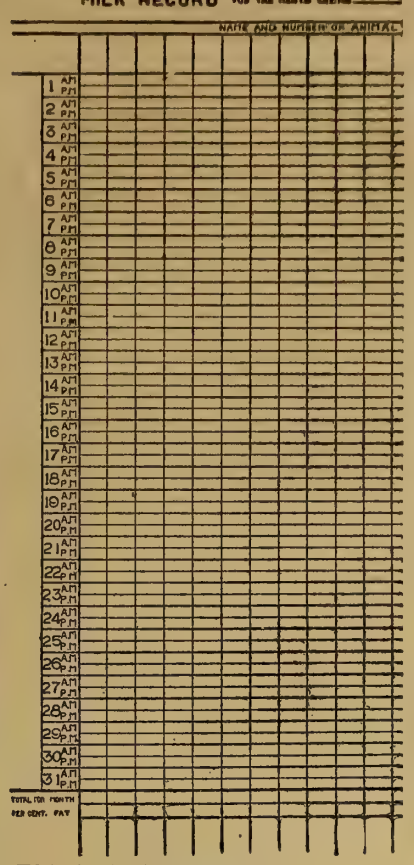

FIG. 2—A CONVENIENT FORM OF RECORD.

cow's yield for the month. Those who keep records find the adding of the long columns the most difficult part of all. To remove this serious objection it is recommended that the amounts yielded on the fifth, fifteenth and twenty-fifth days of the month be added together, divided by three, and the quotient multiplied by the number of days in the month. The result will be close enough to the actual total for all practical purposes.

Once every month a composite sample of each cow's milk covering a period of from three to five days should be tested. The test should be put in the place provided for it on the sheet, at the bottom of each column. Daily weighing is recommended because it is, after all, about as convenient as weighing at intervals. When the plan is to weigh only two or three days per month it is often forgotten altogether.

Weighing the milk daily affords the following advantages: First, enables the dairyman to feed each cow according to her milk yield. This is the only way to feed most economically. Second, indicates at once by a drop in the yield if a cow is not in good health so that treatment may be begun early. Third, shows which milkers are doing the best work and creates an interest in their work.

CHEESE AS A SUBSTITUTE FOR MEAT.

A food suitable to serve as a substitute for meat because of its composition and also because of its savoriness is cheese. It is probable that this food would have been used much more extensively if it had not been for the impression which prevailed in the past that it was indigestible and likely to induce intestinal disturbances. This theory has not been substantiated by the extensive experimental work done by the department of agriculture. On the other hand, the possibility of the use of cheese in quantity in the diet, and its wholesomeness when thus used, have been demonstrated.

Cheeses are of two general classes—those which are of mild flavor and those which are seasoned or ripened in such a way that they are highly flavored. The latter, like almost all highly flavored foods, are commonly used to season dishes made of ingredients without much distinctive flavor, or else are used in small quantities at a time to give palatability to a dish or a meal. The mild-flavored cheeses are the ones which are usually selected for eating in quantity

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and are the ones which may be most appropriately selected when cheese is considered as a substitute for meat with respect to quantity as well as the kind of nutritive material which it provides. The common mild flavored cheeses in the United States are the ordinary factory or cream cheese (which is practically the same thing as English Cheddar cheese), cottage cheese, or sour skim milk cheese and the commercial cheeses which are similar to it, the Swiss Gruyere or as it is commonly called, Swiss cheese, whether imported from Europe or of American make, and such foreign cheese as Edam.

As regards the nutritive value of cheese and the problem of its use in quantity, the extended experiments on the digestibility of cheese carried on as a part of the nutrition work of the department of agriculture have shown that when eaten in quantity as an integral part of the diet and as a chief source of protein and energy in the daily food, it was thoroughly assimilated. The experiments indicate that on an average over 95 per cent of the fat and over 95 per cent of the protein of the cheese are digested, and over 90 per cent of the energy is available for the body. These figures are practically the same as those obtained with meat and show that both foods are very thoroughly assimilated.

The experiments were made with young men in good health and the diet was made up of cheese of different sorts, but particularly of American factory or cream cheese cured for different lengths of time, eaten with bread and fruit. The amounts of cheese varied from about one-third to nearly one-half pound per person per day. It is interesting to note that though the experiments as a whole were long continued, the subjects did not tire of the diet and in no case was constipation, indigestion, or other symptoms of physiological disturbance noted.

DEHORNING CATTLE.

Instead of dehorning calves by the painful method of sawing or clipping, caustic potash should be applied soon after the "button like" horns can be felt. For the past few years this treatment has been used with the greatest success at the Wisconsin College of Agriculture. There is no danger that the calves will suffer from blood poisoning or other infection of the wound.

The application of the caustic potash should not be postponed, or it may give unsatisfactory results. To apply the potash, the hair is removed from about the horns close to the skin. The potash is moistened slightly and rubbed over the skin, which covers the point of the horns, until it is white. It is not necessary to rub the skin until blood comes, as this will cause unnecessary soreness. One such treatment is usually sufficient to prevent the growth of the horns.

The following precautions should be taken. The caustic should be wrapped in heavy paper to protect the hands of the operator. It should not be moistened too much, or the liquid will run down the side of the calf's head and cause unnecessary pain. The calf must be securely fastened so that the head may be held still to avoid applying the caustic anywhere except over the horns. One stick of caustic potash, if preserved in a tightly corked bottle, will serve to dehorn many calves.

BREAKING YOUNG COWS TO MILK.

To the Editor of The Homestead:

Many cows, especially young ones, are very troublesome to milk when fresh, owing to the feverish and caked condition of the teats and udder. I find that after milking a liberal application of vaseline to the teats and lower part of udder night and morning, for four or five days, very effective as it leaves the teats soft and pliable, and has a soothing effect on the cow. I have tried this on four young cows with gratifying results, and find it greatly lessens the terror of breaking them to milk.

Minnesota. R. B. Tyler.

The Bowman bill, which will allow counties to use convicts from the penitentiary, was passed by the Kansas senate. It provides that any county or city which desires to do special road work may market a requisition on the penitentiary board for prisoners. The state is to furnish the guards, but the counties are to pay the guards and support the men and also pay the state a reasonable fee for the use of the men. The money is to go into the fund for the prisoners or for the support of the families of the prisoners.

One foresees the triumph of the potato, unforeseen by William Cobbett, says the London Chronicle. Not so much as a food, but as a means of motion. Coal is giving out, petrol is going up in price and down in production. The supply of both is limited and must come to an end, but there comes the cheer that alcohol will be the motive force of the future. Petrol and coal may give out, but the earth will always grow potatoes. Potatoes can produce alcohol, and alcohol can drive engines. In the potato we seem to have discovered the secret of perpetual motion.

One apple seed contains one-thirty-five thousandths of 1 per cent of cyanide. According to that measurement, the shipment of 119 casks of apple seeds, passed through the custom house in Kansas City is hardly dangerous. The seeds were shipped from southern France for distribution in Kansas City to southwestern fruit growers. The customs house also passed fifteen tons of chicle, sent from Canada to a Kansas city chewing gum factory.

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How to Adjust and Care for the Modern Automobile.

By W. H. Ruther.

ALL THE power applied to the rear wheels of the motor car must pass through the universal joints and it may be easily understood that here there is severe strain and wear at all times the car is running and the manufacturer has not yet fully succeeded in thoroughly lubricating it. It should be kept clean and a leather protector filled with grease kept on it at all times which will give better lubrication and more than double its natural wearing life.

The lubrication of the motor car must be closely observed as upon this greatly depends the success or failure of the car. Never experiment with new brands of cheap oil because the expense of so doing may prove many times more costly than the oil. Too much oil will foul the spark plug and prevent the spark passing, while too little oil will cause the engine to overheat and the piston to stick. This may be determined by the operation of the engine.

When the lubricating system is accidently cut off the engine will overheat causing the oil on the outside of the cylinder to fry. It is far better to feed a little too much oil than not enough. Feed until a light blue smoke begins to appear at the exhaust pipe. The cylinder requires five to twelve drops per minute, depending on the age of car, speed of engine and size of cylinders. At ordinary running speed with medium size cylinders about nine drops per minute for each cylinder is required.

When oil is fed into intake pipe from lubricator it will be necessary to multiply the number of drops per minute for each cylinder by the number of cylinders to get the correct amount for all. In a car two or more years old which has run several thousand miles it is far better to use a heavy lubricant oil as it will hold the compression better and the engine will deliver much more power. Engine bearing should have seven to nine drops per minute and receive frequent attention to make sure supply is still flowing.

The clutch sometimes gives trouble. We have two kinds of clutches in ordinary use, one being known as the multiple disk while the other is the cone. The multiple disk clutch which in the last few years has become so popular in the manufacture of automobiles, depends on friction between metal disks which are pressed together by a large spring to engage them. When this type of clutch is kept running in oil it rarely gives trouble although the surfaces will sometimes stick and the clutch will not disengage. When this is the case run out oil, fill with kerosene and let stand until you can free the clutch. Then drain off kerosene and refill again with kerosene, this time washing clutch thoroughly and drain. In my years of experience I have found nothing better in which to run the multiple disk clutch than oil or kerosene mixed with a small amount of graphite.

The other type of clutch in common use is the cone clutch which is the simplest form manufactured. This type receives its friction by a leather covered cone being pressed at a bevel into a broad, heavy, beveled rim flywheel by a heavy coil spring. The leather friction surface will in time wear so the clutch will not hold in which case it is necessary to replace with a new leather. This must be riveted or bolted on and should you attempt to replace the leather (which is not advisable unless you are handy with machinery) be sure to have all rivet and bolt heads below the surface of the leather so they will not scratch the bevel in the flywheel.

When running on wet, muddy roads dampness finds its way into the rims and as most rims are of metal it rusts them, causing the rubber casing to stick and injuring the rubber in the casing. Should this occur carefully remove the casing, rub off rust with old file, apply kerosene with brush or piece of cloth and let stand one hour. Then rub off well with old cotton cloth and apply a coat of shellac, let dry, apply a second coat of shellac and when this is dry the casing is ready to be replaced.

So long as the steering mechanism performs its duty it is given little attention, but the failure of this mechanism at high speed will cause a quicker and more dangerous wreck than breaking any other part of the car.

Keep all oil and grease cups well filled and all joints protected from dust and dirt with leather tire protectors which are furnished for this puspose. Keep all joints tight and allow no nuts to work loose. There should be very little play or lost motion in this system although the joints must not be drawn so tighly as to make steering difficult.

Make sure that the drag link and steering knuckles are not bent as this will wear out the tires very quickly and probably cause a wreck. To test for this turn steering wheel until the front wheels are parallel with rear; take something having one straight edge and hold against wheels just above or under the hubs and if steering wheel is turned to correct place the front and back part of all wheels should touch the piece evenly on both sides of car.

The radius or distance rods are supplied to the automobile to keep the rear axle from twisting out of shape as the motor car at times is subject to severe strains. One wheel may be on level track while the other hits a rut or stone, and while the rods are put there to hold the car straight, in some severe cases it will twist it slightly anyhow. These rods are furnished with adjustments to take this up and you may adjust the rod until it is again true.

In washing the automobile the water must be turned on easy, for a heavy pressure will cut the varnish and paint, dulling the appearance of the car. It is only necessary to soak the mud then turn on a gentle stream and float it off. After you have thoroughly removed the mud and sand, dry with clean chamois skin being sure that it is free from grit and foreign substances that might scratch the paint. When dry the finish may be retained by applying a good coat of furniture polish and rubbing dry. The mud may be sponged off the tire, being careful not to let water enter the bead. Do not try to wash the upholstery as the water will enter the button holes and creases where it cannot run off and rot them. Also be careful not to get water in the spark coil as this will form a coating on the vibrator points and thus interfere with the passage of the current.

Trying to get up speed in too short a time has ruined more hand separators than the work of skimming.

This Fine $55.00 BUGGY
Only $29.50

MUTUAL BUGGIES are recognized everywhere as standard—proven the best. Only line guaranteed for 5 years. Sold direct cutting out middlemen's profits and saving you $25.00 to $45.00 on each buggy.

This Fine Model Style G. L. Only $29.50 Retails at $55.00
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Other styles have twin auto and triple auto seats, with automobile top. Also Surreys, Spring Wagons, Farm Wagons, Farm Trucks, etc. All at lowest wholesale prices—Sent on approval—Guaranteed to please or your money back.

MUTUAL HARNESS is the best on the market—made of highest grade pure leather—sold direct at a saving of 25% to 50%. Reference—S. Ill. Nat'l. Bank. FULLY GUARANTEED.

Single buggy harness $5.85 per set up; double, $14.10 up; work harness, $19.00 up.

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They're All you Ever Hoped for

in rubber boots. One pair of either the "Century" or the "Kolrib" Beacon Falls Rubber Boots will convince you that you've discovered the ideal boot for wet, snowy weather. They are made of choice selected rubber that cannot crack or split out. Reinforced at the critical points where stress and strain attack them, they stand up and wear surprisingly long. At heel, at toe, at ankle, at sides; inside, outside, right side, wrong side you'll find honest worth worked into the very rubber and linings.

BEACON FALLS

LOOK FOR THE CROSS

Century and Kolrib Rubber Boots

have no competitors in quality. Thousands of farmers everywhere are active champions of these two.

SOLES The foundation of these boots is so tough that it's puncture proof. Rather than puncture, chip or crackle off it rebounds when it strikes a sharp obstruction.

UPPER or VAMP Hot rubber under powerful pressure is forced into strong duck cloth. From this the vamp is made. It's tough, yet conforms to the shape of foot—comfortable, elastic, pleasant. Note extra reinforcement above Kolrib sole and heel. Also vertical strips of pure gum on top of boot which make it "stand up".

ANKLE Reinforced at this weak spot with a pure gum strip the ankle doesn't break down or crack as you've noticed in other makes.

It is a pleasure to own a "Century" or a "Kolrib". Your feet get a warm, snug welcome as they slip in. You have a pleasant anticipation any time you prepare to put them on.

Ask your shoe dealer. If he hasn't them, write us his name and ask for free booklet No. 10.

Beacon Falls Rubber Shoe Co.

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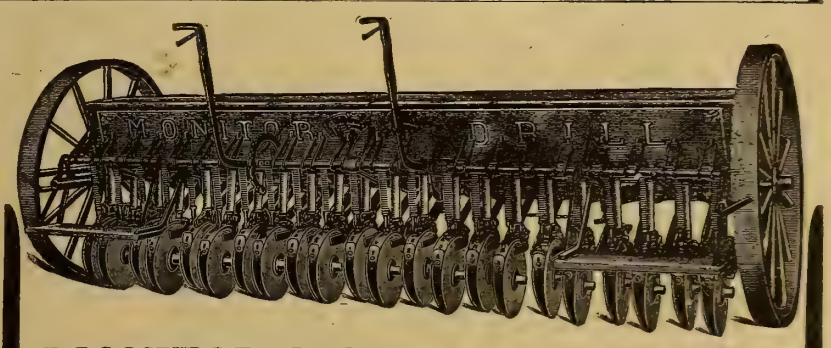

MONITOR DOUBLE DISC DRILL
Increases the Yield
Raises the Grade
Saves 20% of the Seed

Hundreds of farmers have carefully tested out the MONITOR DOUBLE DISC DRILL and in every case have found that it increases the yield, usually from three to seven bushels to the acre—raises the grade and saves at least 20% of the seed. It will actually save its cost in a single season.

THE MONITOR WAY IS THE ONLY RIGHT WAY

It deposits the seed on the downward turn of the disc—at the bottom of the furrow—in two rows, one inch apart and covers it with moist soil and not dry top earth as is done by other drills.

Owing to its uniform depth the seed all comes up at the same time—ripens evenly, insuring better grade—increased yield with less seed—it pays for itself.

The MONITOR DRILL cannot be clogged in any soil, mud, gumbo or in weedy or cornstalk ground, and its draft is one-third lighter than any other.

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SOLD BY HOME OFFICE AND ALL BRANCH HOUSES

Read

If you *read* this little "ad" and are *not* convinced of the *quality* I am offering at my *low price*—send me your name on a *postal* for my *"World's Championship Hatching Facts."* But you can *safely* order right *now*. *The U. S. Government is a customer of mine*, along with nearly *200,000 others*. The Belle City has won *Six World's Championships*, for people running their *first incubator*—and it won with 100 per cent hatches. Here are the facts about

Jim Rohan's Six-Time

World's Champion

Belle City Incubators

140-Egg Size Only $7.55 Freight Paid East of Rockies

I guarantee my machine to outhatch all comers, give you a long trial, prove all claims. Why pay more? Why not save money and get in the championship class?

The Belle City has double walls, dead air space all over, double door, copper tank, hot-water heat, self-regulator, "Tycos" thermometer, egg tester, safety lamp, nursery, high legs. My

Belle City 140-CHICK Brooder

is the only double-wall brooder made, hot water heat, platform, and metal lamp. Price **$4.85.**

When shipped together I make a special price of $11.50 for both Incubator and Brooder saving you 90c on the Complete Outfit, freight prepaid, East of Rockies. Better write today for big Portfolio "Hatching Facts" and get latest information how to make money out of poultry at small expense, or if in a hurry you can order from this advertisement. I guarantee everything as represented or refund money. Address me personally, Jim Rohan, Pres.

$4.85
140-Chick Brooder

Belle City Incubator Company
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Wanted!

Johnson wants your name and address if you are interested in chicken raising. He will send you the famous Old Trusty Book, free—finest published, worth $1.00.

A Postal Brings Johnson's 1913 Old Trusty Book, Free

Tells about the incubator sensation of the world. 400,000 sold—all making big money for owners. Tells about 30 to 90 day free trial offer, 10 year guarantee. Price is less than $10.00, freight paid east of Rockies and allowed that far to points beyond. Get the Johnson's Book Free—read all the facts—see hundreds of photographs. Don't miss it. Mail a postal *now* to

Freight Paid East of Rockies That Far if You Live Beyond

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Keep Them Alive—

What's the use of hatching a big lot of chicks and then losing 60 per cent through neglect and disease. Learn how to cure and prevent all poultry diseases

The Kellerstrass Way

Don't be afraid of White Diarrhoea, Kellerstrass' Remedy stops it quickly. Sold in **25c, 50c, and $1.00 sizes.** If your dealer cannot supply you send direct to us. Get the Kellerstrass Book telling HOW TO MAKE MONEY IN POULTRY. **FREE** How to start; how to select layers; what to feed; what to do for sick chicks and old birds.

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GET IT

Miller's "Ideal"—the greatest hatcher that ever came out of a factory. You don't have to be an expert to run it.

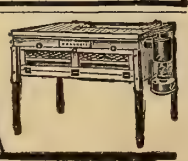
Before buying any kind of an incubator, at any price, from any body, get my 1913 offer on the IDEAL. Last year I broke the record for low price on efficient, dependable incubator. This year I'm going still further.

I'm Going to Pay the Freight—Give You An Unqualified Guarantee—Include Everything FREE.

When writing, tell me what size incubator you are interested in and I'll send you my **BIG ILLUSTRATED POULTRY BOOK FREE.** Describes Standard Bred Poultry, tells how to become successful and other valuable information. Easily worth $1.00. Because it contains advertising, you get it FREE. Ask for copy.

J. W. MILLER CO., Box 305 Rockford, Illinois

Neubert's 1913 Price Saves $5 at Least



Send me a postal. Get my offer. My new Triumph Incubator is the result of my 19 years experience in the poultry and incubator business. Hatching eggs is made simple, easy, sure. My book proves it. Read all the facts about

TRIUMPH INCUBATOR

Has redwood case, basswood inner wall, dead air space, asbestos lining and building felt. Front has double glass door with air space. Copper hot water heating tank with galvanized attachment for hot air. Automatic regulator, self-ventilation, lamp, high nursery, strong egg tray. Complete, with thermometer, egg tester, set up, ready to run. My price saves you $5.00 or more. Address **R. F. Neubert,**

Box 787 Mankato, Minn.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

CLEAN YOUR INCUBATOR.

It is very important that the incubator be cleaned before putting in the eggs. If this was not thoroughly done after the last hatch the past season, it should be attended to before putting in the eggs this spring. The machine should be thoroughly cleansed with soap and warm water. Then wiped out with a rag that has been wrung from water into which has been poured ten or fifteen drops of carbolic acid. This serves as a disinfectant. Then there will be no disease germs to prey upon the young flock as soon as they come from the shell. After the hatch is off remove all egg shells and the cloths from beneath the trays. With a dust brush sweep out all loose filth. Wash the trays in the carbolic acid water and wipe out the bottom of the incubator with the cloth wrung from the warm carbolic acid water. Run the incubator a few hours until the floor and trays are perfectly dry. This gives it a chance to dry out thoroughly. Then put in the new batch of eggs. By carefully cleansing and disinfecting the incubator after each hatch severe bowel trouble in the flock may be prevented.

SELLING EGGS FROM PURE-BRED POULTRY.

To the Editor of The Homestead:

The eggs for hatching trade is getting to be quite a feature of the poultry business and better prices are being obtained each year for the eggs of the really choice specimens of the various breeds. While complaints often arise regarding results from eggs purchased for hatching, on the whole this feature of the chicken business proves satisfactory providing both parties to the transaction act in good faith. Probably the most fault found is among beginners; they expect too much, especially early in the season. Then, again, some breeders send out eggs in the spring without knowing positively that a large per cent of them are fertile. A breeder should know that a reasonable proportion of his eggs are fertile before he fills an order.

People who buy eggs for hatching with the expectation that every egg will hatch and that every chick will develop into a prize winner are pretty apt to be disappointed. Any poultryman of experience knows that if he can get five or six healthy chicks from a sitting of eggs costing from $2 to $5 is getting his money back if he gets the kind of chicks he pays for. Any one of those chicks, raised to maturity, will be worth $2 or $3, and if there is a good cockerel among them the purchaser is well paid for his investment. If one buys birds it is necessary to pay from $3 to $10 per bird, if one expects to get first-class breeders. But one can secure eggs from some reliable breeder's pens at about the same price per sitting that he has to pay for a single bird, and the chances are that one will raise at least three or four birds from each sitting and often many more than this number are raised. But if one raises only two good birds to maturity he is ahead and should be well satisfied with his purchase of eggs.

Spending money for eggs for hatching is like spending it for almost anything else. The results depend somewhat upon the business sense in spending it. One should always be reasonably sure that he is sending his money to a reliable breeder, who has just what he is advertising for sale. It must be admitted that some breeders fall far short of fulfilling their promise to the letter. Some sell eggs that do not hatch, or, if they do, the chicks are of poor quality. But the general run of breeders should not be judged by these dishonest exceptions. A breeder of experience is usually jealous of his good reputation, and he will send out eggs from good stock that will hatch.

The fresher eggs are the better for hatching purposes. Every breeder is aware of this fact, therefore he should ship none that are not perfectly fresh. Then if the buyer of the eggs will use them as soon as they arrive, or at least after a rest of twenty-four hours, he will secure better results.

It behooves every breeder to pack his eggs well. There are several good egg boxes on the market, made of jute board, lined and partitioned with double-faced corrugated paper, which encloses each egg in a space by itself, thus protecting it from severe jars and changes in temperature. If one has many eggs to ship, in one or two sitting lots, it pays to get a sufficient number of these boxes to provide for every shipment. They may be obtained from poultry supply houses quite cheaply in dozen lots. If one does not have enough shipments, however, to warrant buying these, four-pound and eight-pound grape baskets make good carriers. Splint baskets are a little more attractive, but being lighter they require a little more packing material. Excelsior probably makes the best packing material. Put about two inches of it in the bottom of the basket and pack plenty among the eggs. Wrap each egg in two thicknesses of paper and lay them in the basket so as not to touch each other or the sides of the basket. Put a layer of excelsior on top as well as in the bottom of the basket. If more than one layer of eggs is put in, place a thick cardboard on top of the layer of packing and place the second layer of eggs as the first. The regular basket cover may be used or a cloth may be sewed over the top, provided the eggs are to be shipped by express. If sent by parcel post the cover must not be fastened down so as to prevent examination of the contents of the basket. But whether sent by express or by mail, place a tag on the package where it can be plainly seen, marked "Eggs for Hatching—Handle With Care," also your name and address and the name and address of the customer should be written plainly on the tag.

W. F. P.

TUBERCULOSIS IN POULTRY.

One of our Wisconsin subscribers, Mrs. J. L. Hill, sends the following inquiry:

Affected chickens first become lame and it is some days before we notice any other symptom. They sit around a great deal, seem quite thirsty and eat, but keep losing in weight. Not all of them are lame and some have a diarrhea. We have killed a good many as soon as they showed signs of the trouble and all I have examined have large livers covered with yellowish spots. Sometimes the spots are in other places. Would like to know if they have tuberculosis and if it will do to set the eggs from hens that are laying right along.

Ironclad

TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only $10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the **greatest hatching contests ever held.** In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid for only $10. Mrs. C. F. Merrick, Lockney, Texas hatched 148 chicks from 148 eggs in 1912 contest

140-EGG Ironclad Incubator

Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this adv.

GALVANIZED IRON
INSULATED BOARD
REDWOOD
ASBESTOS
5-Year Guarantee

Both for $10 Freight Paid East of Rockies

30 Days' Free Trial Money Back if not Satisfied.

140 Chick Brooder

IRONCLAD INCUBATOR CO., Box 59 Racine, Wisc.

Feed Growing Chicks Right

They must be furnished with the right kind of material if they are to make satisfactory growth of muscle, bone and feather. Profit lies in quick growth and early maturity. Rush those cockerels to marketable size and turn them into cash before prices fall. Get the pullets completely developed and ready to fill the nests with fall and winter eggs.

Pratts Baby Chick Food

contains just the necessary ingredients to give them during the first three weeks the best possible start, at a cost of 1c per chick. In boxes and bags, 25c, 50c, $1 up. After the third week mix

Pratts Poultry Regulator

in the ration to aid digestion and make the greatest gain for every pound of feed consumed. 25c, 50c, $1. 25-lb. Pail, $2.50. "Your money back if it fails." Get Pratts Profit-sharing Booklet. Our products are sold by dealers everywhere, or

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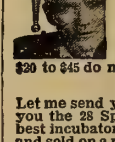

The High Class Incubator Sold at a Fair Price

High prices and big claims are giving way before the Queen's record. You can't buy a better incubator at any price. The Queen applies hatching conditions correctly. Big hatches, chicks come out strong and vigorous. Machines costing $20 to $45 do no better work.

Save $10 to $12

Let me send you my Poultry Guide and Catalog to show you the 28 Special Queen Points—reasons why it's the best incubator that can be built. Built to last 25 years and sold on a money-back guarantee. Write any National Bank in Lincoln about my standing or dealings. Distributing houses in extreme East and West mean quick deliveries. Book free. Address

P. M. WICKSTRUM, Incubator Man
Box 10, Lincoln, Neb.

Egg Maker

Compounded by Geo. H. Lee

55 per cent. blood meal, best meat food for laying hens and growing chicks. Salts, spices and matter fowls must have to do well. Contents sworn to under Pure Food Law. 25c, 50c, $2.00, 100 lbs. $7.00. Lee's Lice Killer is death to lice, harmless to fowls. Kills by fumes. 35c, 60c, $1.00.

Try GERMOZONE

Lee's greatest poultry preparation, in use 15 years, cuts chick losses 90 per cent. Ideal remedy for *Roup, Colds, Cholera, Chicken Pox, Bowel Complaint, etc.* Tones and puts life into fowls of all ages and is best guarantee against contagion. Given in drinking water. Price 50c. Valuable Lee Books on poultry and incubators, free. Address

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

99 CHICKS FROM 100 EGGS

$39.60 profits from $2.50 worth of eggs! That's the record of one of our customers. Hundreds of men, women and children coining money from the

"SIMPLICITY" COMBINED HATCHER & BROODER

All metal. Sanitary. Economical. Nothing to get out of order. Averages better than 85 per cent. hatches. 50 and 100 egg sizes. Fully guaranteed. To start you we will lend you a Simplicity for your first setting. Try it. Count your chicks. Send it back if you are not delighted with it. Failure impossible. Experience not necessary. Write today.

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$4.95 AND IT'S YOURS

NEW MANKATO

Direct from factory. 18 years experience. Safe, sure, simple. Redwood, triple walls, asbestos lined. Copper hot water heating tank, self regulator, automatic ventilation, safety lamp, nursery, tested thermometer. Comes all set up, ready to start. Write for free Catalog and Poultry Book. Address

Large Size $6.25

Mankato Incubator Co., Box 827 Mankato, Minn.

When writing to advertisers please mention The Homestead.

apparently in good health and with red combs. Is there any danger in using these eggs?

Tuberculosis is becoming alarmingly prevalent, so much so that one fowl out of every dozen, varying in different flocks, is affected.

This disease has a single cause, the bacillus tuberculosis. It is wholly contagious and must be transmitted either through fowls, or possibly mammals though the latter is not very probable. The English sparrow is responsible for much of the poultryman's trouble by carrying infection and mites.

The lameness is the first outward symptom. The internal organs have been affected indefinitely. Two symptoms our correspondent gives prove beyond a doubt that her fowls have this dreaded disease, viz: Losing in weight and the spots to be found in different parts of the internal organs. Lameness, diarrhea and thirst also indicate tuberculosis, but these symptoms are the first noticeable effect of many other diseases. More and more our people are examining their dead fowls, thus enabling us to more intelligently answer inquiries.

It is also to be hoped that those fowls that died were burned. A wholesale slaughter of every bird that shows any symptoms of the disease may sound like a heroic measure, but it is the only safe thing to do. Chicks from afflicted parents will show up weak, with humped backs, sometimes twisted wing feathers and big joints. The tubercules are more frequently found in the lungs of young chicks. To test the lungs of a chick, put a piece of one in water. If healthy, it will float. If diseased it will sink.

If the bright, healthy appearing chickens our correspondent mentions could be taken to new quarters and every bird removed that begins to grow listless, it will be safe to keep them. Those that are affected even though there is no outward sign, will sooner or later die from the effects and the sooner the better.

Clean up and disinfect the buildings and yards. Admit sunshine into the house, if you must tear the roof off to do it. Sunshine and fresh air, and germs have no affinity. Theoretically the eggs would be harmless to use—but who would eat one of them if he knew it?

SHIPPING EGGS FOR HATCHING.

To the Editor of The Homestead:

The season is at hand when the business of shipping eggs for hatching will be in full swing. My experience in the past has been so varied along this line, the exasperating ones being in the majority, that I must confess my confidence in the honesty and common sense of my fellow poultry breeders received many a rude shock. I believe that the large commercial plants, as a rule, understand how to pack and ship eggs in a safe and satisfactory fashion. It is the small breeder who seems to be most often the sinner in this respect, although from some of the well-advertised breeders I have received eggs in an inexcusable condition.

The day of the parcel post offers better rates and facilities to shippers of eggs for hatching. The requirements for the packing of all eggs to be sent by this agency fit in well for the needed care for hatching eggs.

And I have found not only the packing and shipping at fault. The careful selection of eggs to be sold for hatching purposes is not always observed. I well remember my red-hot indignation on one occasion, when I had ordered a 100 lot of eggs from a firm of breeders who had advertised extensively and alluringly. The eggs came very carelessly packed in a bushel basket, and such eggs! I could not have gotten together from all the eggs laid by my own flock such an array of lop-sided, crooked, long, bunty, ridged eggs. Many were so under size for the breed, that they might almost have passed for bantam eggs. They were in every shade of color, from dark brown to purest white.

Well, I had bought the eggs, paid the price and also the expressage. My incubator had been waiting for them for several days. So, with darkest misgivings, I put them in the machine and tended them faithfully for three weeks. About a dozen crippled, weak babies hatched, and every one gave up the ghost in a gratifyingly short time. Other orders received that season came packed in market baskets, none of them being properly protected. To say I was disgusted is to speak very conservatively. From four or five 100 lots from as many different breeds, I did not have a single good hatch.

But the tide turned at last. An order sent to an Iowa breeder for a 100 lot of eggs, came in a shape to delight my inmost heart. A regular shipping egg case was used with patent fillers. Every egg was well wrapped in soft paper, enough paper being used to completely fill the compartment. Every egg was carefully placed on the small end, a matter which the other shippers had evidently considered of small importance. The thorough selection of the eggs was noticeable. Such a beautiful uniformity in size, shape and color one rarely sees. Of course, the express charges were somewhat higher for the heavier package, but who would not rather pay a little more for the transportation, than have a lot of cracked, addled eggs on hands sure to be an utter loss?

That year with me was one of experiment. I was trying to make a flock of one breed pay for the change into a flock of another. And the results I obtained from this one order, proved the basis for the new flock.

I do not for a moment believe that all the unsatisfactory lots of eggs I received were because the shippers were deliberately dishonest. Most of them simply did not understand how to do the shipping in the right way. As all this happened some years ago, I was under the impression that there was surely improvement by this time. But a recent writer in the poultry journal details an experience so similar in many respects, that I feel that education is needed in regard to this business.

All orders should be at once acknowledged, and the day of shipment noted. When the eggs are shipped, which should always be on the day signified, if possible, notification should be sent of the shipment. No business house with any sort of reputation omits this. It is particularly necessary in shipping hatching eggs, so that the purchaser may be in readiness to care for them.

The reason for packing eggs with the small end down is an imperative one. If packed on the large end, the weight comes on the air cell, stretching the inner skin, and causing the egg to become addled. It is almost impossible to addle an egg packed on the small end. Of course the package should be kept right side up, which it usually will be if so marked on the outside.

To quote from the recent experience referred to:

From some breeders came eggs packed in new boxboard cases, and from others in baskets, and from that down all through any conceivable list of things which might by stretch of the imagination be called containers for hatchable eggs. They arrived in every imaginable condition, from broken to addled or muddled, with about 60 per cent in good condition. One even sent eggs which we afterward proved to have been incubated and tested out of the incubator.

In only three cases was shipment made on the day requested, and in only one case was the notification of shipment asked for sent. As a result of not complying with what I believe was a very simple and just request, my own plans for incubating were sadly disarranged. Three times we were forced to either lose several hundred eggs or order more incubator space by wire. It seems to me that every breeder, no matter how small, should at least use a postal card and acknowledge an order when received, and state on what day shipment will be made, and then, above all else, ship on that day.

The style of carrier does not make so very much difference, so it is strong and non-pliable. Baskets may perhaps be safely used for small orders, but personally I dislike them very much. A container with which egg fillers can be used are by far the best. In some ways so pack the fragile merchandise so that it will not be shaken en route. Have plenty of packing, and fasten all covering strongly. To a clear and legible address should be added the words, represented in an emphatic a way as possible: "Eggs for hatching," "Handle with care." "This side up.'

Perhaps the best general rule in this matter is the gilden rule. Treat the other fellow as you would wish to be treated if you were sending the order. Do your best to have the eggs reach him in as nearly as good a condition as possible as when they left your hands. You do not know his circumstances, nor how slackness on your part may handicap his chances for success. The Good Book is a safe guide to follow. And by following this rule you not only help your brother toiler, but you increase your own chances for success. A few satisfactory deals will bring you increased business. "A good name is rather to be chosen than great riches," said Solomon, and we might add, "A good reputation is often the way to material prosperity."

Mrs. S. B. Titterington.

That heavy chick losses are mainly due to carelessness is the warning issued by Prof. J. G. Halpin, of the Wisconsin College of Agriculture, to brooder operators. "Most brooders are kept so dirty and unsanitary that reduced vitality if not death of the chicks is the result," declared Professor Haplin. "Before the chicks are put into it from the incubator every brooder should be thoroughly cleaned and disinfected, and then kept sweet. Improper heating also retards the growth of many chicks. The thermometer is a poor indicator of the correct temperature. In their endeavor to maintain an even temperature, men sometimes turn down the flame even when the chicks are huddled, shivering under the hover. Best results will probably be obtained by throwing away the thermometer and simply watching the chicks. It is easy to see whether they are too warm or too cold. A variety of feed, including

TELLS WHY CHICKS DIE

J. C. REEFER, the poultry expert of 1630 A Main St., Kansas City, Missouri, is giving away free a valuable book entitled "White Diarrhoea and How to Cure it." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98% of each hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable FREE books.

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FOR SICK
POULTRY

Your money back if it does not give satisfaction. Dealers generally.

GERMO MFG. CO., SEDALIA MO.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

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SHOEMAKER'S BOOK on **POULTRY**

and Almanac for 1913 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about Incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c. C. C. SHOEMAKER, Box 896 Freeport, Ill.

Hatch by Rule

Mandy Lee, the incubator of certainty, is purely automatic. It measures and adapts moisture to heat. Open-front-poultry-house plan. Lee's scientific principles show in bigger hatches, better chicks. Send for book explaining great new Lee features. Sizes up to 600 eggs. Try Germozone for chick health and poultry thrift. Also Lee's Lice Killer and Egg Maker. All books free.

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Bees for the Farm Need little attention and pay big profits If you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.

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WHY INCUBATOR CHICKS DIE.

THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The cause and tells of a cure. **Book Absolutely Free for the Names.**

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA.

ORPINGTONS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK

EGGS $6 per hundred. Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at reasonable prices. Write for descriptive circular. Address W. E. HOLCOMB, Mgr. Nebraska Poultry Co., Cozy Center, Neb.

Martz Strain Buff Orpington Eggs

FOR SALE—This is direct from the prize winning stock; I have two pens mated since Feb. 15 and am now ready to ship eggs and guarantee 12 fertile eggs. Pen No. 1, $2.50 No. 2, $1.50 per 15. Address ROY E. BULECHEK, - HILLS, IOWA.

Fortmann's Single Comb White Orpingtons

ARE strictly high class and superior type that usually is not found in White Orpingtons. 10 grand matings for this season's egg trade. Now is the time to place your order for eggs. Address Frank Fortmann, Box 23, Dyersville, Iowa.

S. C. WHITE ORPINGTON

KELLERSTRASS strain, and S. C. W. Wyandotte eggs for sale, scored birds; big, heavy boned stock; price 15, $2. Frank G. Meyers, Iowa City, Ia.

EGGS from prize-winning S. Comb Buff Orpingtons, two special pens, Martz and Rogers strains. $3.50 per 15; utility flock, free range, 15, $1.25; 30, $2.50. Also high-scoring fawn and white I. R. duck eggs, $1.50 per 13; $4.50 per 50. Jas McKendrick, Ernie, Ia.

S. C. BUFF, BLACK AND WHITE ORPINGTON cockerels, hens and pullets. High quality, prize-winners, scored unsexed. Shipped on approval at reasonable prices. Eggs in season. E. B. Conable, Box C, Independence, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 for 100; Cullty Flock $5 for 100. Book orders early. V. H. Conner, Shell Rock, Iowa

EGGS from prize-winning Buff Orpintons, Cook and Owen strains $1.50 per 15. Some good cks. for sale at $1.50, $3.00 and $5.00 each. H. CAVELL, Haverhill, Iowa.

Crystal White Orp. Eggs Prize winners in 4 shows, $2.00 to $5.00 a setting. F. R. Schwatzer, Central City, Neb.

S. C. BUFF ORPINGTON EGGS, 15, $1.25; 30, $2; 50, $3; 100, $5. Cook strain. A choice lot. Also 50 pullets. Address Dan McCarty, Winthrop, Ia.

EGGS. S. C. Buff Orpington. farm range, $6.00 per 100 or $1.50 per 15. Good type and color. Cook strain. Address Mrs. W. E. Zimmerman, Neola, Ia.

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

White Orpington Eggs $2.00 per 15; $5.00 per 50; $8.00 per 100. Mrs. George Aikman, R. 1, Box 30, Audubon, Iowa.

KELLERSTRASS STRAIN S. C. W. Orpingtons. Eggs from "bred to lay" prize-winning stock, 15 $2; order early. D. B. Storck, Box 793, Cedar Rapids, Ia.

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15, $1.50; 30, $2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

S. C. W. Orpington Eggs $2 per 15, $4 per 45 or $7 per 100. Address M. D. Korns, Hartwick, Iowa.

EGGS from pure Cook strain Buff Orpingtons. Four yards, each headed by a blue ribbon winner. Write for mating list. Wm. Cook, Eddyville, Neb.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

FARM range S. C. Buff Orp. eggs. Prize-winning stock; good type and color; are offering eggs at $1 per 15, $5 per 100. Glenn Heninger, Hedrick, Ia.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, high-scoring, 13, $2; 35, $4; 100, $10. Address B. M. HALL, Ellsworth, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Buff Orpingtons Yearlings, young stock and eggs for sale. Prices right. Glynn Poultry Yards, L. B. 69, Cascade, Iowa.

KELLERSTRASS WHITES—Eggs $1.50 per 15 or $8.00 per 100. S. C. Buffs $5.00 per 100. ORPINGTON FARM, Big Rock, Illinois.

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and SingleCombs. Elmwood Poultry Farm, Blakesburg, Ia.

EGGS S. C. Black Minorca, blue ribbon, ideal laying strain, FERTILITY TESTED, setting of 15 eggs from three choice pens, $3, $2, $1 each. Mixed $1.50. Liberal discount for larger orders. C. G. DAKE, Epworth, Iowa.

BRAHMAS.

LIGHT Brahma cockerels, pure-bred fancy stock. Also eggs for hatching, 1st pen, 15, $2; 2d pen, $1.50 or $3 per 100. Write Mrs. Geo. Craig, Afton, Ia.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

PLYMOUTH ROCKS.

40 BIG-BONED BARRED ROCK

COCKERELS to close out at only $1.75 to $5.00 each.

I HAVE bred them for over 20 years and have won prizes at Odebolt, Denison and Schleswig. I offer these birds cheap to make room for my breeding pens. Send me any sum from $1.75 to $5.00 and I will select a bird that's worth far more. **EGGS IN SEASON.**

MRS. EVA GIRARD, - Schleswig, Iowa.

White Plymouth Rocks and White Pekin Ducks

CHOICE flock of White Rock pullets mated to cocks scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30; $3 per 45; $7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn. Mated to him are 9 hens weighing 10 lbs. ea. Eggs 15, $3; 30, $5. Extra good flock of ducks headed by drakes which were sired by fowls scoring 93 points. Eggs 11, $1.50; 22, $2; 50, $4. Fair hatch guaranteed or eggs replaced at half price. Order early. **John W. Houselog, Bellevue, Iowa.**

EGGS from PRIZE MATINGS

I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellenbarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address **HENRY LINKE, - Wayne, Nebraska.**

BARRED ROCK EGGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

BARRED ROCKS, BRONZE TURKEYS

A few good young toms at $5 each and 2 yearling toms, wt. 36 lbs. or better, $7 each. Eggs, Barred Rock, special matings, $2 per 15, 2 sittings $3.75, 3 sittings $5, farm range, 30, $1.50; 100, $4. Turkey eggs 30 cents each. M. V. LEEPER, Redfield, Iowa.

B. P. ROCK COCKERELS

LARGE size and extra heavy bone with that deep blue barring, not brassy; sired by high-scoring ckls, weighing 10 to 12 lbs; from hens and pullets weighing 7½ to 11 lbs. Price $2 to $5 each. Eggs, 15 $1.50; 30, $2.25. M. A. Easthouse, Hartley, O'Brien Co., Ia.

White Rock Cockerels

EXCLUSIVE. Strictly high-class, 125 from 6½ to 10 pounds. Prices for quick sale. $1, $1.50 and $2. Eggs in season. A. C. BINNIE, Alta, Iowa.

Exhibition Barred Rock Ckl.

From our 1st-prize pens. Pure Bradley very closely related to Chicago and New York winners Prices $2.00 to $10.00 each. Satisfaction guaranteed. **Albert A. Foster, - - Russell, Iowa**

EGGS FROM QUALITY

BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $5 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Bachman, Blakesburg, Ia.

Bradley Barred Rocks and S. C. Reds

Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

40 P. R. Rock and Golden Wydt. ckls. narrow barred and have quality. One million strawberry plants. Special prices to Homestead reader. J. L. Todd, R. 3, Des Moines, Ia.

EGGS—Barred P. Rocks, from 10-pound female, 12-pound males. State show first-prize winners. Free catalog showing real photos of prize winners. **A. D. MURPHY & SON, ESSEX, IOWA.**

WHITE P. ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.50 per 15; $7 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

Barred Rock Eggs Pen fine females, headed by fine ckl. $2 for 15. Hawkeye Poultry Yards, Mt. Pleasant, Ia.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS Pure-bred Barred Rocks, $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15, $5. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

PURE-BRED White Rock eggs; birds scoring 91½ to 95¾. Pen, 15, $3.50; 100, $12. Range, 15, $1.50; 100, $5.50. **H. L. NEFF, Dallas Center, Iowa.**

EGGS from large White Rocks at 5 cents per egg. Address **Mrs. H. Wood, Moville, Ia.**

FOR SALE Choice lot W. Rock ckls., W. Holland turkeys, Mammoth Pekin ducks. Prices reasonable. Mrs. M. W. Coan, Little Cedar, Iowa.

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

BUFF PLYMOUTH ROCKS

BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and stats what you are interested in buying. Address **J. O. KOERTH, - Ionia, Iowa**

White Rock Eggs for Sale

FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100. **CHARLES GUTH, - Berwick, Iowa.**

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B. Winthrop, Iowa.

PARTRIDGE ROCK COCKERELS Bred from $50 Nofzgen male $5.00 each. Address **C. W. McQuiston, Monmouth, Illinois.**

EGGS from Grove Hill strain B. P. Rocks. Extra good layers. From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock, R. 5, Neola, Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50, eggs from range flock 100, $6. Write for particulars. Grant Lynn, Spirit Lake, Ia.

WHITE Rocks, 92 to 95¼; eggs $2.00 per 15, utility flock $1.00 per 15 or $5.00 per 100. Address **MRS. JAS. PEDLEY, R. 3, Britt, Iowa.**

EGGS from H. S. Barred Rocks and S. C. R. I. Reds, $1.50 per 15, $3 per 50, $5 per 100. Also M. W. P. ducks $1.50 per 11. Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

B. P. R. eggs for hatching, from large well-barred birds. Good laying strain. 15 for $1.00, 45 for $2.25, 105 for $5.00. Mrs. J. H. Heilman, Holstein, Ia.

CKL. bred Barred P.R. ckls., fine large birds, narrow barring to skin. Ringlet and Bradley strain, satisfaction guar't'd. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

PURE-BRED Barred Plymouth Rock Eggs, $1.25 for 15, Write for larger amts. Large and well-marked birds in season. Wess Whetstine, Wellman, Ia.

B. P. R. eggs from large, fine, barred birds; good laying strain; ckls. scored 90-92½; wt. 10-12 lbs. 15, $1.50; 30, $2.25. G. J. Pfeil, R. 3, Central City, Iowa.

EGGS FOR HATCHING—B. P. Rocks, large boned, narrow barred, good laying strain. $1.00 for 15, $6.00 for 105. **James H. Howarth, Moulton, Ia.**

White Plymouth Rock Eggs and ckls. for sale; good scored stock. Write for prices. Mrs. E. C. Turner, R. 1, Griswold, Iowa.

DUCKS.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons,** R. 2, Prophetstown, Ill.

INDIAN Runner ducks, fawn and white. Our flock was started from eggs from a choice flock of pure bred Indian Runners. Our ducks have not been forced for winter laying, which we think is detrimental to successful hatching; plenty of range; are in No. 1 condition; few drakes $1.50 ea. Eggs $1.25, 13; $6, 100. Will Rasmusson, R. 2. No. 63, Nevada, Ia.

Eggs from Mammoth White Pekin Ducks

HEADED by drakes scoring 97. 97¾. Won blue ribbon at Oswego, Kansas, poultry show, 1912. $2 for 13; $4 for 30; $6 for 50; $10 for 100. Address **JOHN M. HALL, - Williams, Iowa.**

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

PEKIN ducks and R. C. White Wyandottes. Our ducks are from very high scoring 11-lb. drakes and 9-lb. dams. You can't do better; eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6. Address **JOHN M. HALL, Williams, Iowa.**

Pekin Duck Eggs from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 13; pen 2, $1.50 per 13. Address **EDW. MEYER, Dyersville, Iowa.**

EGG ORDERS NOW BOOKED from our champion strain of Indian Runners that won all firsts at Chicago. A few choice drakes. F. L. Reinhard & Son, Ottumwa, Ia.

WE are offering 100 extra choice breeding trios of pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address **Rahn & Son, Box 144, Clarinda, Iowa.**

EGGS—Pekin ducks, headed by drake scoring 96½ that won FIRST at Dubuque show, $1.50 per 13. Address MRS. M. W. COAN, Little Cedar, Iowa.

INDIAN RUNNER DUCK Eggs, $1.50 per 13. Pure white eggs. Address Jennie Rider, R. No. 2, Farmington, Iowa.

I. R. ducks, both fawn and white, and the English pencilled. Special prices on eggs for Feb, and March orders. Nishna Collie Kennels, Oakland, Ia.

FOR SALE PEKIN DUCKS. Drakes $2, trio $5. **MISS EDITH YOUNG, Huntertown, Ind.**

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia.

cracked grains, grit, skim milk, and green stuff should be given. By far the best green material used at the college is the onion. There is nothing better for the first few days."

Where the ewe loses her lamb, skin it, wrapping its hide around the body of another lamb belonging to some ewe with twins, tranferring this wrapped lamb to the ewe which lost her lamb. She is more apt to own it than if brought to her without any covering.

POINTERS.

—Mrs. C. F. Sealock, Neola, Iowa, quotes prices on Barred Plymouth Rock eggs in her advertisement elsewhere in this department.

—Turkey toms are offered for sale by Mrs. Mae Freeland, Douds Leando, Ia., in her advertisement appearing elsewhere in this department.

—M. Lippert, New Hampton, Iowa, is advertising Mammoth Toulouse geese eggs for sale in his advertisement found elsewhere in this department.

—C. W. Kellogg, Rockwell City, Iowa, is offering Single Comb Rhode Island Red eggs for sale in his advertisement appearing elsewhere in this issue.

—Matthew Mertz, Des Moines, Iowa, as per advertisement found elsewhere in this department, wishes to buy several varieties of land and water fowl.

—D. B. Storck, Cedar Rapids, Iowa, is offering Single Comb White Orpington eggs for sale in his advertisement appearing elsewhere in this department.

—Write John Webb, Jr., Spirit Lake, Iowa, for prices on Rose Comb Rhode Island Red eggs as per advertisement appearing elsewhere in this department.

—Elsewhere in this department appears the advertisement of F. R. Schwatzer, Central City, Neb., quoting prices on Crystal White Orpington eggs.

—Orville O. Jones, York, Neb., can supply Homestead readers with Barred Plymouth Rock eggs as per his advertisement found elsewhere in this department.

—Joseph Jappes, Jr., Ashton, Iowa, is selling Rose Comb White Leghorn and Black Langshan eggs at prices named in his advertisement elsewhere in this department.

—Pure-bred Barred Plymouth Rock eggs are offered for sale in the advertisement of Mrs. Wm. Mead, Mapleton, Iowa, that appears elsewhere in this department.

"My flock of White Wyandottes," writes Mrs. M. C. Humphrey, Derby, Ia., whose advertisement appears elsewhere in this department, "are well matured and perfectly healthy."

—Pure-bred White Plymouth Rock eggs from birds scoring 91½ to 95¾ are advertised for sale by H. L. Neff, Dallas Center, Iowa, in his advertisement appearing elsewhere in this department.

"We have a nice flock of White Orpingtons," writes Mrs. Geo. Aikman, Audubon, Iowa, in furnishing copy for her advertisement offering eggs for sale that appears elsewhere in this department.

—F. E. Ristrim, Stanhope, Iowa, has five pens of extra good laying White Plymouth Rocks from which he will sell eggs this season. His advertisement appears elsewhere in this department.

—Ben F. Bentley, Boone, Iowa, breeds Rose Comb Rhode Island Reds exclusively. His advertisement, in which he quotes the price at which he can furnish eggs, appears elsewhere in this department.

—Pure-bred Light Brahma cockerels from fancy stock are offered for sale by Mrs. Geo. Craig, Afton, Iowa, in her advertisement found elsewhere in this department. She also is quoting prices on eggs.

—The Fairview Farm, West McHenry, Ill., are quoting prices on trapnested Single Comb and Rose Comb Brown Leghorn eggs in their advertisement appearing elsewhere in this department.

—In sending copy for her advertisement found elsewhere in this department, Mrs. S. E. Newell, Audubon, Ia., writes: "Can furnish eggs now from choice, large, high-scoring birds at reasonable prices."

—Single Comb Buff Orpington eggs from a farm range flock can be furnished Homestead readers by Mrs. W. E. Zimmerman, Neola, Iowa, at prices named in her advertisement found elsewhere in this department.

—The advertisement of C. E. Hayes, Lamont, Iowa, advertising Single Comb Rhode Island Red eggs for sale, appears elsewhere in this department. Mr. Hayes has four pens headed by prize-winning cockerels. Send for his mating list.

—Roy E. Bulechek, Hill, Iowa, is now ready to ship Buff Orpington eggs from prize-winning stock at prices named in his advertisement elsewhere in this department. He has two pens of the Martz strain mated and will guarantee twelve fertile eggs to each fifteen.

—James McKendrick, Ernie, Iowa, has two pens of prize-winning Single Comb Buff Orpingtons of the Martz and Rogers strain and a utility flock with free range from which he will furnish eggs at prices named in his advertisement found elsewhere in this department. He also is quoting prices on high-scoring fawn and white Indian Runner ducks.

—Will Rasmusson, Nevada, Iowa, has a flock of Indian Runner ducks, the foundation of which was eggs from a choice flock of pure breds. They have not been forced for winter laying and have had plenty of range and are in No. 1 condition. His advertisement quoting the price of eggs appears elsewhere in this department.

—In furnishing copy for her advertisement found elsewhere in this department, Mrs. G. W. Brockway, Clarksville, Iowa, writes: "My Rose Comb Brown Leghorn hens are doing fine and I expect to be able to care for all orders for fresh eggs promptly. My flock of fawn and white Indian Runner ducks are very fine, mostly scored stock. I will send out nothing but fresh laid eggs. My prices are so reasonable that all can get a start with this famous laying strain of ducks."

—Under the proper classification, elsewhere in this department, will be found the advertisements of Sarah Lowe, Clarksville, Iowa, offering eggs for sale from Silver Laced Wyandottes, Single Comb Rhode Island Reds, Silver Spangled Hamburgs, Rose Comb White Orpingtons, Rhode Island Whites and Indian Runner ducks. She writes: "The eggs we are offering for sale this season are all from the very best high-scoring stock and we are confident that

WYANDOTTES.

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

Faha's Silver Laced Wyandottes Grand type. Superb lacing. Trap-nested layers. 50 fine breeding pens at $10 per pen if taken soon. Write me your wants. Frank Faha, Jr., Box 620, Dyersville, Iowa.

EGGS from high-scoring stock. White Wyandotte, Kellerstrass, White Orpington and Buff Orpington. $1 per 15; $5 per 100. Fawn and white I. R. ducks, $1.25 per 13. A. G. Dreher, Audubon, Iowa.

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, its free, John A. Johnson, R. 2, Pilot Mound, Ia.

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15, $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

Large Strain of Buff Wyandotte Cockerels

FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

SCALES' SNOW WHITE UTILITY White Wyandottes. Eggs for hatching, farm flock, $1 per 15; $6 per 100. Special pen, show birds, $2 per 15. N. W. Scales, Iowa City, Iowa.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble, Mrs. M. C. Humphrey, Derby, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wyandotte Eggs 15 for $1, 100 for $5. Choice mating, 15 for $2. A few pullets $1 each. E. G. Brockway, Indianola, Iowa.

PARTRIDGE WYANDOTTES Ckls. scored and unscored. Reduced prices to close out. Egg orders booked. Thos. L. Morlan, Indianola, Ia.

EGGS from prize winning, good laying strain White Wyan., $1.00 per 15, $5.00 per 100. Address E. G. Pont, Atlantic, Iowa.

BUFF WYANDOTTE eggs for sale. Good stock and farm range. $1.50 per 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

PUREST and BEST White Wyandotte eggs, $1.25 per 15; nothing better at any price. Mrs. C. Lionberger, Humboldt, Neb.

BUFF WYANDOTTE COCKERELS Farmers' fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

Partridge Wyandottes High-class birds. Ckls. and pullets scoring up to 93 points. Prices low. Edw. Meyer, Dyersville, Iowa.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

WHITE Wyandottes, Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia.

W. WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Hisley, Milo, Ia.

CHOICE WHITE WYANDOTTE COCKERELS, $1.25 to $1.50 to close. Large, vigorous, sure to please. **E. S. DYAS, Bellevue, Iowa.**

White Wyandotte Eggs $1.00 for 15, $4.00 for 100; from state show winners. Address **ETHEL H. SHAW, R. 6, Newton, Iowa.**

GEESE.

TOULOUSE GEESE Toulouse Geese eggs from very large-framed birds, weight 20 lbs. and over, 6, $1.50; 18, $4. 2 extra ganders for sale $2.50. Frank A. Gould, Rockwell City, Ia.

MAMMOTH TOULOUSE GEESE. Eggs sold from old geese only. Geese weighing 52 pounds. Also White Rocks. M. Lippert, New Hampton, Ia.

ANCONAS.

A Few Choice Mottled Ancona cockerels, large, cheap if taken at once. Evergreen Poultry Yards, R. 4, Waterloo, Ia

LEGHORNS.

Rose Comb Brown Leghorns EXCLUSIVELY. 15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $6; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

S. C. W. LEGHORNS CHALK WHITE. Six blue ribbons Des Moines, 1912. Eggs $2 to $5 per 15. Utility $6 for 100. Address J. M. Williamson, R. 1, Des Moines, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address R. S. Ketcham, Box H, Boonville, Indiana.

R. C. B. L. sitting eggs from my scored pen $1.25 per 15, and 1. R. D. eggs, pure fawn and white, $1.25 a sitting, $5 per 100. Farm range $4.00 per 100. Address MRS. G. W. BROCKWAY, Clarksville, Ia.

S. C. W. LEGHORN eggs by the 100. It is not the price that is high but the quality. Write me your wants. J. W. Robinson, Route No. 1, Truro, Iowa

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 A. B. JORDAN, - Mornvia, Iowa.

S. C. W. Leghorns; eggs from a strain with blood lines well established; $4.00 per 100, $1.00 per 15. Also fancy imported pen (Campbell strain of Canada) $2.50 per 15. Address Geo. Gaul, Tipton, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

S. C. B. LEGHORN EGGS from silver cup prize winners, $1.50 per 15. Mrs. Monroe Marts, R. 2, Ottumwa, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

EGGS R. C. B. Leghorn $1, 15; $1.75, 30, $2 50, 50; $4.50, 100; $8, 200. From fine stock. Farm range Mrs. G. W. Stetzel, Audubon, Iowa.

SINGLE COMB BROWN LEGHORN baby chicks $12.00 per 100. Let us book your order now for future delivery. E. A. Kauffman, Lockridge, Iowa.

S.C. and Rose C.B. Leghorns Trapnested 12 yrs. Eggs $1.00 per 15; $5.00 per 100. Fairview Farm West McHenry, Ill.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley Iowa.

S. C. W. Leghorns. Young's. Eggs, exhibition matings, $2.50, $1.50, $1 per 15; $5 per 100; chicks $12.50 per 100; circular, Mrs. Wilson McIntyre, Red Oak, Ia

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

S.C. BUFF LEGHORNS Eggs from high-scoring, prize winning stock $1.50 per 15, Ckls. for sale, $5 each. R. E. Colburn, Weyauwega Wis

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 and $4.50 per 100. Eggland Farm, Mt. Vernon, Iowa.

S.C. BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S. C. W. LEGHORNS. Pure white, persistent layers. Eggs, $1.50 per 15; $5.00 per 100. Geo. S. Phillips, Tecumseh, Nebraska.

S. C. Brown Leghorn Eggs from scored farm range stock. 75 cents for 15, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. F. Bollman, Wall Lake, Ia.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100. From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

COCHINS.

BUFF COCHINS exclusively, large-framed, big-boned, even-colored, heavily feathered ckls. and pullets for sale. W. W. Vaughn, Marion, Iowa.

DOGS.

SCOTCH COLLIES

STRONG in the blood of Buckler, a grandson of the great Southport Student. Also Parbold Piccalo by Anfield Model. These great breeding dogs at the prices ordinarily asked for common stock. Address A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

SCOTCH COLLIE PUPPIES

HIGH-class puppies, the best blood in America, from registered Sire's and Dam's Beauties; and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead. T. A. STEVENSON, SHANNON CITY, IOWA

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

Fox Terrier Puppies for Sale

Nicely marked and great ratters. Very best breeding. Address N. R. ROGERS, Peru, Nebraska.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

DE BOER & VER PLOEG Breeders of fine Fox Terriers. Write for prices. 510 Addition St., Pella, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

FOR SALE High grade Scotch Collie pups. Bargains if taken soon. Address, T. A. GOUGH, Bristow, Iowa.

our customers will be pleased with the stock from these eggs."

—If desiring Barred Plymouth Rock eggs the advertisement of W. G. Caskey, Corning, Iowa, appearing elsewhere in this department, will be of interest.

—E. A. Kauffman, Lockridge, Iowa, will book orders for Single Comb Brown Leghorn baby chicks from his heavy-laying, farm range flock. Those who will want baby chicks would do well to book their orders now. See advertisement elsewhere in this department.

—R. H. Roberts, Clear Lake, Iowa, in furnishing copy for his advertisement of Buff Plymouth Rock eggs, appearing elsewhere in this department, writes: "I have some splendid Buff Rocks which are buff, have yellow legs, bay eyes, are of even color without almost no dark feathers, and they have no black feathers."

—"My flock of Rose Comb Brown Leghorns are greatly improved this year, as I have some fine hens and ten cockerels that score about 93 or 94," writes William Sailer, Ackley, Iowa, whose advertisement appears elsewhere in this department. "They are of a great laying strain. I have been raising and improving my flock for nine years, and they are looking fine and are healthy."

—Mrs. Monroe Marts, Ottumwa, Ia., is offering Single Comb Brown Leghorn eggs for sale from prize-winning stock in her advertisement that appears elsewhere in this department. At the Ottumwa Poultry Show, December 6-20, 1912, Mrs. Marts won a silver cup on best display; first and second on cockerel; first, second, third and fourth on hen; first, second and third on pullet; first on pen, and first on ten.

—Mrs. L. W. Renaud, Bondurant, Ia., in furnishing copy for her advertisement found elsewhere in this department, writes: "Stock is in fine shape, early maturing and very heavy layers. Visitors are always welcome. Have raised Rose Comb Brown Leghorns exclusively for the past five years. Have shipped birds on approval to many parts of the United States and have never had a complaint."

—Bert A. Randell, Mt. Zion, Iowa, has an advertisement of Black Langshans and Indian Runner ducks elsewhere in this department. He writes: "We have sold all of our cockerels and have mated up two fine pens, besides our large range flock of Langshans and Indian Runners. We are getting lots of eggs and they are proving very fertile, so we are well prepared to furnish eggs at farmers' prices."

—The advertisement of Frank G. Myers, Iowa City, Iowa, offering Single Comb White Orpington and Single Comb Wyandotte eggs for sale, appears elsewhere in this department. Mr. Myers' Orpingtons are of the Kellerstrass strain and his White Wyandottes are extra choice stock and snow white. The prices at which he can furnish eggs from these two varieties are stated in the advertisement above referred to.

—The Elmwood Poultry Farm, Blakesburg, Iowa, states that The Homestead has sold all their Single Comb Minorcas, but that they still have several prize-winning Rose Comb Minorcas left that are extra large fellows and will be priced reasonable. They are offering fifteen eggs for $1 from their Single Comb pen, which contains their silver cup prize winners, and from their Rose Comb pen headed by Black Giant, a $25 bird weighing nine pounds.

—John M. Hall, Williams, Iowa, has a selected flock of snow white Rose Comb Wyandottes consisting of about fifty pullets headed by one cock and three cockerels. His advertisement appears under the duck heading in this department, as he is also advertising Mammoth White Pekin duck eggs for sale. He has been a breeder of the White Pekins for six years and has spared no money in getting the best of stock. For prices on white Rose Comb Wyandotte chickens or White Pekin duck eggs refer to the advertisement.

—W. W. Forbes, Jefferson, Ia., breeder of Rose Comb Rhode Island Reds, writes that he has had the best season on the sale of cockerels since he has been in business. The demand for this breed is growing and he says it is difficult for him to fill orders. He has two pens, Nos. 1 and 2, from which he will sell eggs the present season. From pen No. 1 he will sell at $5 per fifteen, and from pen No. 2 $2 for fifteen. For further details see advertisement elsewhere in this department and write him. He reports that The Homestead is the best advertising medium he has ever had.

—John W. Houselog, Bellevue, Iowa, is booking orders from his choice flock of White Plymouth Rocks and Mammoth Pekin ducks. He writes: "My range birds are headed by cocks scoring up to 92 points. Also have a pen mated, but will sell only a limited number of sittings from them, consisting of nine large pure white hens, headed by a cockerel scoring 93 points and winner of second prize at the Wisconsin Poultry Association. My flock of ducks are pure white, mated to drakes, the sires of which scored up to 97 points. Am able to handle incubator orders as well as small ones. Will ship out only fresh eggs. Any order, no matter how large or small, will receive my careful attention. Fair hatch guaranteed or eggs replaced at one-half price. Circular sent on request. Order early. See advertisement in this department."

Chas. Guth's Cockerels Sold.

—Chas. Guth, Berwick, Ia., writes that his cockerels have all been sold and every customer is well pleased. He is now offering eggs from his prize-winning White Rocks. The grand champion cockerel at the 1911 Des Moines Poultry Show is the lord and master of this flock. There is nothing better than Guth's White Rocks.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
EXCLUSIVELY
STOCK AND EGGS SHIPPED ON APPROVAL
Score Card by Shellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city. HENRY G. WALKER, IOWA CITY, IA.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address H. E. HUSTON, - Iowa Falls, Iowa.

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I. REDS 75 cents per 15 or $4 per 100. Pen No. 1 $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed. J. B. HEISEL, - Grinnell, Iowa.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

ROSE COMB R. I. REDS

TUTTLE and Bushman eggs. High-scoring, prize-winning, good laying. Pen 1, 15 eggs $5; 2, farm range, 15, $2; 50, $5; 100, $8. 20% additional eggs furnished on orders booked next 30 days. Write for circular today. W. W. Forbes, Box 441, Jefferson, Ia.

SINGLE COMB REDS

EGGS that will hatch, at right prices, from my prize-winning, skin-deep Reds; the kind that pays; start today with this popular breed. Send for my free mating list. L. G. Johnson, Box H, Steamboat Rock, Ia.

PRIZE-WINNING R. C. R. I. REDS Long, back, big bone, red eyes and low tail. Score 92½ to 95; won 13 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2.50 and $5 per 15. Circular free. Address C. B. Alverson, Moravia, Iowa.

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

SINGLE COMB RHODE ISLAND REDS

GET your eggs for hatching from prize winners. Four grand pens, headed by 2d, 4th cockerels, Dubuque; 1st, 4th ckls., Oelwein. Prices reasonable. Send for mating list. C. E. Hayes, Box A, Lamont, Ia.

MOUSER'S REDS (Both combs). Cockerels, pullets, trios and pens for sale. Also Omaha King, first cock at Omaha. Address W. I. Mouser, R. 5, Red Oak, Iowa.

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15. $5 per 100. Write Mrs. W. L. Stoner, - Henry, Illinois.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. RED EGGS for sale from 6 choice pens headed by show winners, When you buy here you get the best. Address O. A. Knerr, Beaver Crossing, Neb.

S. C. R. I. RED COCKERELS Seven large-boned dark red birds at $2 each. Mrs. F. B. Dann, Dewitt, Iowa.

R. C. R. I. RED EGGS Limited number of eggs from 2 fine pens. Write for prices. John Webb, Jr., Spirit Lake, Iowa.

S. C. RHODE ISLAND RED Eggs $1.00 per sitting. Few pullets for sale. Sarah Lowe, Clarksville, Iowa.

Rose Comb Rhode Island Reds The rich red kind that win in show oom. Address C. B. Hanna, Box A, Epworth, Ia.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address THE RED FARM, Luverne, Iowa.

Eggs--Rose Comb Rhode Island Red
$5.00 per 100. Address Emma Curts, Lawrence, Neb.

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R. 1, Box 3, Wahoo, Neb.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address MRS. GEO. W. GODLOVE, Riverside, Ia.

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains. Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

S. C. R. I. RED COCKERELS FOR SALE, Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

FOR sale. R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. C. F. BATTELS, Indianola, Iowa.

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. RHODE ISLAND REDS large size, red to the skin, a laying strain. Eggs $2.00 per 15. E. M. Thompson, Independence, Ia.

S. C. R. I. RED EGGS
for sale. Address Mrs. Sophia Rader, Laurel, Ia.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS

EGGS, choice from big boned, prize winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

RHODE ISLAND REDS Single Comb. We have a few left scoring 90 or over $2 each. W. I. PRICE - - - - IRA, IOWA

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in your orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

BLACK Langshans, winners Keosauqua, Ottumwa, Fairfield; score 93-95. 1 R. Ducks, score 92-97½, farmers' prices, cir. Bert A. Randell, Mt. Zion, Ia.

EGGS, B and W. Langshans, S. C. Buff Orps. Lt. Brahmas, R. C. R. I. Reds from high scoring stock. 15, $1.50. Mrs. S. E. Sorrell, R. 6, Audubon, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and pet pen 1, 2, 3, 4 pullets in Waterloo show, 1912. Mrs. Lucina Peter, Whiteside, Mo.

EXTRA big-boned, close feather Black Langs., black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

EGGS FOR SALE—From high scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

BLACK LANGSHANS Large-boned cockerels $2.00 each. Three $5.00. Eggs in season. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

Black Langshans Ckls. all sold. I am booking orders for eggs now. Birds scoring 90 to 95 points. CAP OAKS, Adair, Iowa.

TURKEYS

MRS. J. E. BAXTER Walnut Grove, Minnesota, has Mammoth White Holland turkeys for sale. Toms $5.00, hens $3.00. Write your wants.

MISSOURI KING and GIANT M.B. turkey hens; toms all sold; eggs $5.00 per ten. Also B. P. Rock eggs from prize stock, 45 eggs for $2.00. Address Henry Schlatter & Sons, Lawler, Iowa.

FOR SALE M. B. turkey toms $6 and $8. Address Mrs. Mae Freeland, Douds Leando, Iowa.

M. B. Turkey Toms $5 Each
Address MRS. A. KITSON, Audubon, Iowa.

Order Now Eggs from 28-lb. M. B. Toms; large Buff and White Orpington chickens. Address Steve Morlan, Plano, Iowa.

MAMMOTH WHITE HOLLAND Toms and pullets first at state fair 1912, $5 each. LONGWORTH'S, Polk, Iowa.

NARAGANSETT TURKEYS, old gobbler 50 lbs. Old hens 27 to 33 lbs. For sale 1912 hatch turkeys. Address E. Foster, Caldwell, Ohio.

Mammoth Bronze Turkey Toms FOR SALE. Weight 25 pounds. Price $5.00. MRS. A. BOLSINGER, R. 3, Buffalo Center, Iowa.

W. H. TOMS $4.00 each, weight 22 and 23 lbs. A few choice Pekin drakes $1.50 each. Address Mrs. H. A. Wohlsdorf, Lawler, Ia.

MISCELLANEOUS.

EGGS FOR HATCHING From scored, thoroughbred, Orps., R. I. Reds, Plymouth Rocks, Leghorns, Wyandottes, Andalusians, Pekin Ducks, $1.50 up.
O'DONNELL POULTRY FARM
Box 1022 Valley Junction, Iowa

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

FINE THOROUGHBRED POULTRY

48 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 19th Annual Poultry Book. Address R. F. Neubert, Box 807, Mankato, Minn.

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks scored 93 to 97 points. Chicago New York, Kan. City, St Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

KEEP YOUR CHICKENS HEALTHY

WITH GERMIKIL, the great roup and white diarrhoea remedy). CATALOGUE FREE. AYE BROS., Box 1. BLAIR, NEBRASKA

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E. Myers, President, E. Myers Lye Company

The above is a conservative estimate of the stupendous sum lost by American farmers during the first six months of 1912 from hog cholera alone! (Not including the **enormous loss from hog worms.**)

Now, men, let's make a mighty, united effort to put an end to this terrific slaughter—this awful waste of money. We can do it if we work together. I **know** we can do it. I have the remedy that **has been proved will prevent** hog cholera, put your weak hogs on their feed, **rid them of worms,** make them strong, hearty, fat and healthy. My remedy,

Merry War Powdered Lye,

is very simple and inexpensive to use and results have been **proven.** In an interview, which was so important that it was given a full column on the front page of the Fort Dodge, Ia., Messenger, on November 7th, 1912, Mr. Collie Bowers, a prominent hog raiser in that section, says: "Last Fall I had lost twenty-six young pigs, when I was told to get some MERRY WAR POWDERED LYE and feed it with swill. Every one of the eight or nine pigs that were then sick recovered and I had no more trouble. This Fall the same sickness started after I began feeding this year's crop. I started the Merry War Lye treatment and the pigs got well. My brother used the Lye with his pigs and saved all the sick ones. Earnest Stromberg heard about the treatment and came to our house in the night to learn how to use it. We told him and he drove to Fort Dodge in the night and got a grocer up to get the MERRY WAR POWDERED LYE. His pigs all got well."

You can easily prevent an outbreak of cholera among your hogs, for again I say to you that MERRY WAR POWDERED LYE is the **safe preventive** of that dread swine disease. You can tell your neighbors about it just as Mr. Bowers in this interview is telling his farmer friends about it. You can in this way help to put an end to this needless and enormous money loss. Will you do it?

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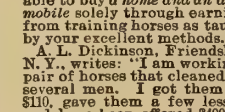

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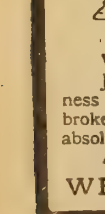

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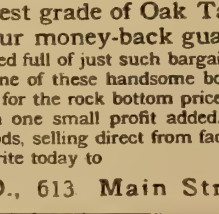

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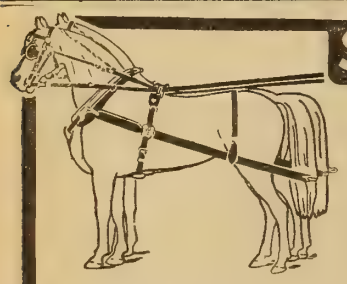

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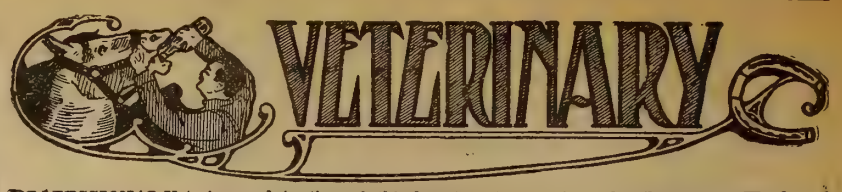

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

WEAK STIFLE.

I have a three-year-old heifer that is lame in one hind leg. When she starts to walk her leg is stiff. She can swing it from the hip, but seems to have no control of the rest of the leg until she has walked around some, then I can hear something snap and then she walks all right again. She has been lame about a year.

The muscles and ligaments of the stifle are weak and let the patella (knee cap) slip out and in. Twice daily rub the stifle with a liniment composed of one part each of turpentine and aqua ammonia and six parts of raw linseed oil. Stop for a few days if the skin becomes sore. Keep heifer in a box stall.

DISEASED TONGUE.

(1) Have a May Hereford heifer calf that has been ailing about a month. At first we thought her jaw had been bruised, but after examination found a lump about the size of a fist on the root of her tongue. Have given her salt peter in water. Would you advise opening the affected part? (2) We also have a five-months-old heifer calf which when driven out of the barn about a week ago started to run, stopped short and backed up, pulling her front legs back stiff. Then she fell over as though she had been shot. She can get up on her front or hind feet, but not on both. Have rubbed her back with turpentine and dip. This heifer is of a wild disposition and is easily excited.

(1) If there is a soft spot in the lump on tongue it should be opened, for evacuation of pus; not otherwise Paint it with tincture of iodine twice a week. Give ten grains of iodide of potash in drinking water twice a day until injurious effects are seen; then stop for a time, but start again as soon as the alarming symptoms abate. It may be "wooden tongue" from actinomycosis fungus that causes lumpy jaw. (2) The calf had an attack of apoplexy, or a fit, and there is pressure on the brain from a clot of blood, or collection of serum. Chances of recovery are poor. Give iodide of potash as in the other case and apply a blister to the poll of the head. Keep bowels active.

CONGESTED UDDER.

Some time ago I purchased a cow at a sale, supposed to be all right. When she calved she had a very large, hard caked udder. She does not give as much milk out of it as she ought to. I have been rubbing her udder with grease. It has been six days since she calved. Her udder does not seem sore. Do you think she was that way before I bought her, and if so, can I obtain damage? What treatment would you prescribe?

We are unable to say whether or not the cow was affected before you bought her, but you might take the matter up with the seller. He may make amends, but there seems to be no legal grounds for requiring him to do so. Foment the udder with hot water three times a day and massage thoroughly each time. At night rub in warm, melted lard. Keep her in a box stall, out of drafts. Possibly she may do better if you give her a full dose of epsom salts.

ABORTION.

I have an Angus cow five years old and weighing about 1,300 pounds that was due to calve in May, but lost her calf some time the first of February. (1) What do you think caused her to lose it? (2) In what way is abortion contagious and will any kind of a cow or heifer get it. (3) Is there any cure or treatment for this? (4) Is there any danger of spreading it by breeding the affected cow to the same bull to which other cows are bred?

These questions have been dealt with many a time in this department of the paper. (1) We cannot say what caused abortion, but contagion always is to be expected. (2) When cow after cow and heifers in turn abort without known cause contagious abortion certainly is present. Affected cows have an abnormal discharge from vagina and lining of vagina may show unnatural color and spots. (3) No specific remedy has been found for contagious abortion and an affected cow usually aborts more than once. (4) The bull is a common source of infection, as he spreads the disease in the way suggested. Isolate affected cows and do not have them bred again sooner than six months from time of aborting. Disinfect sheath of bull before and after each service by syringing with a luke warm 1 per cent solution of coal tar disinfectant. Disinfect rear parts of each pregnant cow with a like solution once daily throughout pregnancy.

DISEASED EYES.

Last fall I began throwing some green corn and fodder over the fence to sheep and about November some of them began to water at one eye and then in a few days the other eye. I have a flock of forty and one or two have been affected all winter, now six have it in one eye and one five-year-old ewe is totally blind. Their eyes water and turn white, then become inflamed. They are fed good, bright fodder once a day with corn and timothy hay and alsike clover hay to run to and some alfalfa hay. They are in fine shape otherwise.

The disease is contagious ophthalmia. Isolate affected sheep at once and if possible change the other sheep into clean pens and yards. Wash affected eyes once or twice daily with a 10 per cent solution of boric acid applied on clean swabs of absorbent cotton and two or three times a week dust eyeballs with a mixture of equal parts of finely powdered boric acid and calomel. The blind sheep is beyond hope. There is no need of feeding sheep two kinds of salt.

NAVEL INFECTION.

Please advise what causes navel dis-

ease in colts, prevention of same and a cure, if possible.

Filth germs getting onto the raw navel cord at birth cause abscesses at the navel and then in the joints (pyamela). The affected points become swollen, hot, sore and soft. The foal loses appetite, weakens and dies. This disease may easily be prevented by having the mare foal in a clean disinfected and whitewashed box stall on the floor of which clean bedding has been spread and then wetting the navel at birth with a 1-500 solution of corrosive sublimate. Repeat the treatment twice daily until the cord dries up and no raw spot is seen. Treatment rarely succeeds when the disease appears. Hypodermic injections of anti-streptococcic serum may be given.

WEAK STIFLE.

A black colt foaled last May has a hard lump in front of his left stifle joint. When he walks it flies back and forth and makes a popping sound. He limps when he runs, but not when walking. He has been this way about two months.

Keep the colt tied up short in stall for at least one month and blister the weak stifle with cerate of cantharides. Repeat the blister in three or four weeks if found necessary. If the condition was due to infection of the navel at birth, chances of recovery are poor.

EWES DYING.

Can you tell me what to do for my sheep, as I am losing them. They have been running in the cornstalks and a timothy and clover meadow, but after they began dying I changed them to a blue-grass pasture and am now feeding them wheat, bran and oats, together with clover hay and stock food. They are all heavy with lamb and fat enough for market. At first they get stiff and lose their appetite and the nose runs. Toward the last they breathe very fast.

Such losses are common at this time of year and the cause is overfeeding on coarse, bulky, constipating feed. Pregnant ewes should always be kept out of stalk fields and should not be fed timothy hay, marsh hay or old, weathered cornstalks. Feed mixed clover hay, roots, whole oats and bran. Silage may be used if roots cannot be provided. Abundant exercise must be enforced. Give the rations suggested here and physic any ewe that is costive. Liver disease and nodular disease of the intestines commonly is present in such cases and the combination proves fatal.

THUMPS.

I have nine brood sows farrowing seventy-three pigs between January 20th and this date. Out of this number only twenty-three are alive. They do very well until one or two weeks old, when they are suddenly stricken, beginning by slight jerks of the head and neck, which rapidly grows worse, drawing the head farther back until death comes, which is usually less than twenty-four hours. In some cases I have noticed small sores on nose and around eyes. Pens are kept clean and warm as possible at all times.

Overfeeding and lack of exercise, as regards both sows and pigs, causes thumps and infection causes the sores. At once cut down the rich rations of the pregnant sows and make them take abundant exercise every day. Do not feed corn. Prefer roots, alfalfa hay and very light slop. Make the pigs take plenty of exercise. Make slop of nursing sows laxative and not rich. Clean up, disinfect and whitewash pens and houses. Ventilate properly. To prevent sores souse heads of little pigs in a warm solution of one ounce of permanganate of potash to the gallon of water at first sign of trouble. Wash faces of pigs at birth with a 1 per cent solution of coal tar dip. Isolate all affected pigs.

The Development of Draft Foals.

THE development of draft foals might very properly begin with the selection of the sires and dams. The type that is the most pleasing to the breeder should be decided upon and all foundation stock should be selected from that type only, for no good results come from a cross of types any more than good results come from a cross of breeds. Size and soundness, together with as much quality as can be had with size, might be considered the main points in the selection and then the handling and care of those selected is the next step in the development of the foal.

Early development is an impossibility unless the foal is endowed with a rugged constitution and its proper strength, conditions that are governed by the care given the mother during her gestation period. In instances when it is necessary to work the mare or if the mare must be used regularly, no ill results need be anticipated if care is taken that she is never overwrought or subjected to sudden strain. If so handled, there is no reason why the mare could not work steadily until within at least ten days of her foaling time. On the other hand, if the mare is not used, the best plan is to allow her to run out all year on as good a pasture as can be had for her, providing that she has access at all times to a good stable or shed or any shelter that affords a good dry bed. Start the mare into the winter in good flesh, as she will withstand the cold and storms much better, require less feed and can give more nourishment to the colt than she could do were she in rather poor condition in early or midwinter. Have the mare in only moderate flesh at foaling time, as stabling, heavy feeding and excessive flesh will not produce a foal with as much size and vigor as it should have. An abundance of good timothy hay with a little sprinkling of clover in it and a few ears of corn whenever necessary makes the best winter feed. Also provide plenty of fresh water and see that the mare is never compelled to drink of that which is ice cold. A good blue-grass pasture is the proper place for the mare immediately after foaling as there is no better cooling feed, and the mare and colt will take whatever exercise they want.

Most mares can go through the actual work of foaling without assistance, but they should be gone to at intervals to make certain that there is no prolonged labor which is very telling on the mare and in most cases is fatal to the foal. The colt should be received upon good, fresh bedding if the mare is kept stabled, but if the weather will permit it is much better to have it foaled in the

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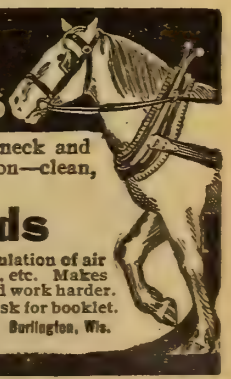

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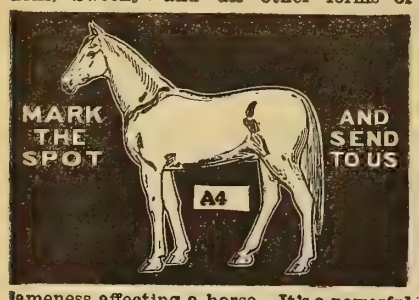
Cures Lame Horses

Makes Limping, Idle Horses Sound of Limb and Valuable Pullers.

We absolutely guarantee Mack's $1,000 Spavin Remedy to cure Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boil, Sprung Knee, Lacerated and Ruptured Tendons, Sweeny and all other forms of



lameness affecting a horse. It's a powerful remedy that goes right to the bottom of the trouble and cures the lameness in just a few days while the horse is being worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair. We have deposited $1,000 in a local bank which must be forfeited if we fail to do as we say.

If you are not absolutely sure what causes the lameness, mark with an "X" on horse above where lameness occurs, tell how it affects the gait and give age of horse, and send to us. Our expert graduate veterinarian will tell you what it is and how to cure it.

Your druggist will obtain Mack's $1,000 Spavin Remedy for you if you ask him. If for any reason you can't get it, write us. We will see that you are supplied. Ask for instructive free book "Horse Sense" No. 3.

McKallor Drug Co., Binghamton, N. Y.

Traub's Sanitary Collar Pad

SEE that pad resting in the hollow of the shoulder; the old-fashioned pad does not fit the collar to the neck. Traub's sanitary collar pad fits snugly to the collar bone, thus distributing the draft equally. It is filled with granulated cork and will not get hard. It is the lightest and coolest pad made. It will prevent sore shoulders and sweeny. Don't fail to write for circulars explaining this wonderful invention at once.

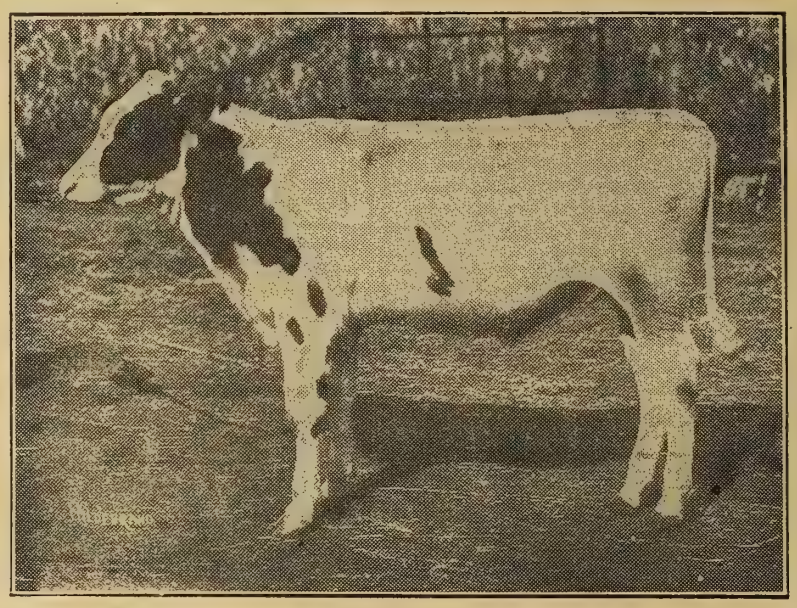
Traub's Sanitary Collar Pad Co., Mackinaw, Ill.

pasture, thereby doing away with much of the necessity for disinfection as a preventive of navel trouble.

Filth, as a breeding place for disease germs, is a scarce article in a pasture and although disinfection is a proper precaution in any circumstance, and should by all means be used on each colt foaled in a stable, the natural destruction of these germs is accomplished by the sun and earth until navel disinfection on a colt that is foaled in a pasture, resolves itself into a matter of choice rather than necessity.

Impaction of the bowels is a much more common ailment usually experienced until the colt is three or four days old. Plenty of exercise, while not a cure is in most instances an excellent preventive while there are a number of remedies, one of the most common being injections of soap-suds and warm water. Care should be taken not to physic the colt too strongly as it is an easy matter by so doing to arrive at the other extreme which occurs often enough from the sixth to the tenth day and is caused by the mother's milk not being at its best as she is frequently in a feverish condition at that time. Two-ounce doses of boiled milk together with enough scorched flour to barely thicken same should be given about every two hours until there is a noticeable turn for the better.

It sometimes happens that the mare's milk is insufficient, in which case if she does not respond to milk-producing feeds or if her milk is unfit it is necessary to provide a substitute.



The above illustration is a likeness of Buffalo Pieter Doede 94018, first-prize junior Holstein bull calf at the National Dairy Show. Also first and junior champion at the Iowa Dairy Cattle Congress, 1912. He is owned by the Chicago Stock Farm, Buffalo Center, Iowa. See advertisement elsewhere.

One of the best methods is to take cow's milk that is very deficient in butter fat and to one-half tea cup of this milk, add one-half teaspoonful granulated sugar and two teaspoonfuls of lime water and give every hour for the first few days after which the intervals may be lengthened according to its needs. Always use the milk from the same cow, give it at the same temperature and be sure that it never has all that it will take at any one time.

There is quite a variation in the age at which colts begin to eat grain, some commencing at three weeks and others not until six or eight. However, at about the age of from three to four weeks, place a little temptation in the feed box, two parts crushed oats and one part bran. Keep feed before it all the time and let it eat all it will. The colt should be feeding well at from two to three months after which time the feed should be changed somewhat. The bran should be cut down and more oats fed, together with a good grade of alfalfa meal if it can be had at a reasonable figure. The proportion of this mixture should be by weight, four parts oats, one and one-half parts bran, and one and one-half parts alfalfa meal. The oats are much better if they are crushed and no part of the feed should be the least bit musty and it might be well to give especial attention to the alfalfa meal as oftentimes it is not made from the best grade of hay. A small handful of salt and linseed oilmeal, half and half, should be given with the grain at least once every other day and in case the colt proves to be a dainty feeder, the addition of enough low-grade brown sugar to barely sweeten the feed will cause it to eat more and develop a better appetite. Hay need not be fed u less the colt is stabled from the flies and heat, in which case good, bright clover with a slight sprinkling of timothy is the best. Alfalfa makes an excellent hay, but until it is produced on the same farm or can be had at a cost of not to exceed $18 to $20 per ton, it is too high priced for the results it brings when compared with clover at $14 or less per ton. The colt should run on good, green pasture with the mother who should be fed milk-producing feeds as there is no one method of early development superior to that afforded by nature. There should be a small pen so constructed as to allow the colt to go in and out at will and yet keep the mother out. This pen should be built wherever it is convenient to carry the feed, which should be in a trough before the colt at any time that it might wish to eat. I have never seen or heard tell of a colt that injured itself by eating too much wholesome feed while kept on pasture with the dam. The amount and proportion of all the feed given must be governed by the eye of the feeder and changed whenever necessary as no set rule can be followed and get best results.

The actual weaning is usually a gradual process and should be such usually, but no bad results need be anticipated from an abrupt change if the colt is feeding well at the time. One of the best methods is to halter the colt and tie it by the side of its mother and let it stand for several hours at a time after which turn it in an adjoining stable for its exercise or if convenient, tie it to the mare's halter and lead them around a little. In this manner the colt will get its exercise and at the same time will be learning to lead. A few days of this kind of care will usually suffice after which the mare who is usually dried off, should be placed where the colt can neither see nor hear her. The colt must then be provided with more water and a little more salt added to the feed than usual. Make certain that there is no danger of the colt attempting to jump over a low door or fence or that it does not get its feet caught in the stable or fence should it happen to paw or strike into same. Do not be in too great a hurry for the colt to learn to lead. Get it accustomed to standing tied and there will be very little trouble to get it to lead up promptly. Let it get its exercise while so learning and be as quiet and gentle with it as possible as there is no time when a good disposition can be formed as well as now.

The feet should be trimmed occasionally to prevent crooked growth and a little care at the right time can often make a poor foot grow into a first-class one and it requires so little effort that it shouldn't be neglected. Observation and good judgment will tell one when and what the foot requires.

Colt development is a part of the horse business in which we are far behind, wonderfully so because of the fact that at either hand we see baby beef, early speed and especially the development of the imported yearlings and two years old. There can be no question but what our colts when foaled are as good as those foaled anywhere as the very best of animals are used here for foundation stock and until we can equal the skill of the foreign feeder and bring our horses forward as well developed, we are losing a very considerable additional profit that should be our own. —[Address by Don Robison before Illinois Live Stock Breeders' Association.

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uses Crude Oil, the cheapest and best Remedy. The hogs do the work. No waste of oil. Works in hot or cold weather. Endorsed by leading hog breeders. Every Post guaranteed. It's the cheapest hog insurance you can get.

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BUCKEYE All Metal Hog House

A portable farrowing hog house, dry and warm. Made of heavy galvanized iron. Constructed with our patented Tight Lock Joint. **To neglect the sow at farrowing time is money lost.** Deadly disease germs cannot exist in a Buckeye All Metal Hog House. Size, 5 1-2 ft. wide, 6 1-2 ft. long and 4 ft. high.

Write for catalogue and low prices.

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ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

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Engraving Dept. Des Moines, Iowa.

Hog-Joy in Your Hog Lot *IT KILLS THE VERMIN*

Let your hogs try this machine for 30 days free of cost to you *and see what a good time they will have with it.*

The Hog Joy Is a Sure Vermin Killer the strongest, simplest, most economical machine of its kind on the market. Built of cast iron; only three parts; needs only crude oil or engine oil; always in order winter or summer.

Hogs Rub Up and Down—not back and forth. They revolve the roller which brings up a thick film of oil and conveys it to the affected parts insuring death to all parasites and a healthy skin to the hog.

Shipped Ready for Use with 2 gallons of oil; freight prepaid; price $10—all your money back if not satisfied. Send money order, check or cash at our risk. *Reference:* Any bank in Springfield, Ill.

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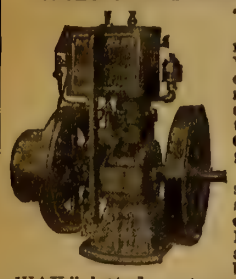
THE HOG JOY CO., 301 N. 5th St., SPRINGFIELD, ILL.

THE "New-Way"

AIR-COOLED
All sizes of Heavy Duty Farm Engines
WILL LAST A LIFETIME



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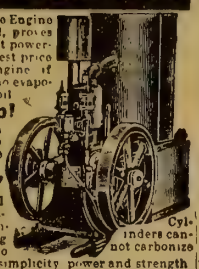
Write today for catalog No. S. THE "New-Way" MOTOR COMPANY LANSING, MICHIGAN, U.S.A.

Use KEROSENE Engine Free!

Amazing "DETROIT" Kerosene Engine shipped on 15 days' FREE Trial, proves kerosene cheapest, safest, most powerful fuel. If satisfied, pay lowest price ever given on reliable farm engine. If not, pay nothing. No waste, no evaporation, no explosion from coal oil.



Gasoline Going Up!

Gasoline is 9c to 15c higher than coal oil. Still going up. Two pints of coal oil do work of three pints gasoline.

Amazing "DETROIT"

—only engine running on coal oil successfully, uses alcohol, gasoline and benzine, too. Starts without cranking. Only three moving parts—no cams—no sprockets—no gears—no valves—the utmost in simplicity, power and strength. Mounted on skids. All sizes, 2 to 20 h. p., in stock ready to ship. Engine tested before crating. Comes all ready to run. Pumps, saws, threshes, churns, separates milk, grinds feed, shells corn, runs home electric lighting plant. Prices (stripped), $29.50 up. Sent any place on 15 days' Free Trial. Don't buy an engine till you investigate the money-saving, power-saving "DETROIT." Thousands in use. Costs only postal to find out. If you are first in your neighborhood to write, you get Special Extra-Low Introductory price. Write. (138)

Cylinders cannot carbonize.

Detroit Engine Works, 370 Bellevue Ave., Detroit, Mich.

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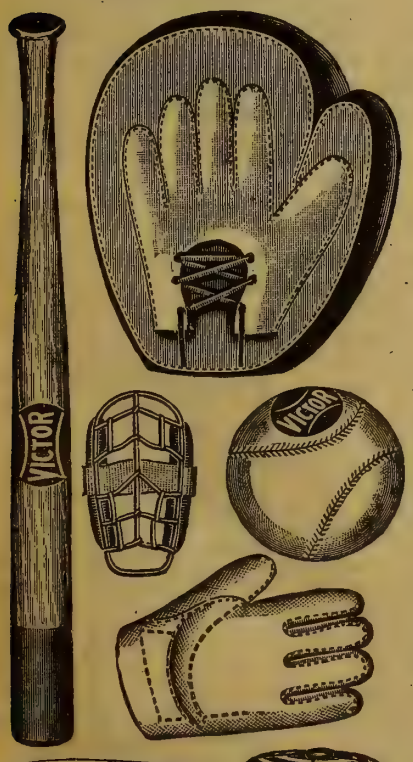
This fine sweet toned violin, white horse hair bow and box of resin given for selling only 20 pkgs. Art Post Cards at 10c per pkg. Order cards today—When sold, send $2.00 and receive VIOLIN, Etc., promptly. Satisfaction Guaranteed.

Address GATES MFG. CO., DEPT. B 17 CHICAGO.

Free To Boys

Have a Glove, Mitt, Mask, Ball, Bat, Cap and Belt for Every Boy Who Will Write to Me.



There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 304 Popular Building, Des Moines, Iowa.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

FIXTURES AND PERSONAL PROPERTY.

A Subscriber, Essex, Iowa.—A bought a farm from B. There are two self-feeders which have been on the place for several years. Each one is built on two 2x12 planks set on edge, and blocked up with wood blocks to a level. (1) Can B lawfully remove them when he gives possession, or do they belong to the place and go to A? (2) Do the hay rope and fork hanging on the track in the barn go with the place, or can B remove them?

Answer.—(1) It is a doubtful question whether the self feeders are fixtures or merely personal property belonging to B, but we are of the opinion that they are fixtures and go with the place, and should be left there when B gives possession. (2) The hay rope and fork are not fixtures, but merely personal property, which B has a right to remove when he gives possession of the place.

FORM FOR LAST WILL.

A Subscriber, Atlantic, Iowa.—Please give me a short form for a will, to be witnessed by a notary public, which will in case of my sudden death convey all my property, both real and personal, to my wife.

Answer.—A will witnessed by a notary public only, would not be valid. There must be two witnesses to a will. It is not necessary that either of them should be a notary. The following is a good short form for such a will as you desire to make:

I, John Doe, of the city of Atlantic, in the state of Iowa, considering the uncertainty of this life, and being of sound mind and memory, do hereby make and publish this, my last will and testament. I hereby give and bequeath to my beloved wife, Jane Doe, all my property, real, personal and mixed, wherever the same may be situated, and I appoint her the executrix of said will and desire that she shall not be required to give bond as such executrix.

In witness whereof I have hereunto set my hand and seal this, the second day of February, A. D. 1913.

John Doe.

The foregoing instrument was of the date hereof, by the said John Doe, sealed and published as and declared by him to be his last will and testament in the presence of us, and each of us, who at his request and in his presence, and in the presence of each other, have subscribed our names as witnesses thereto.

Richard Roe, Atlantic, Iowa.
John Jay, Atlantic, Iowa.

PERSONAL PROPERTY, NOT FIXTURES.

A Subscriber, Colfax, Iowa.—Last October A sold a farm to B on contract, making no reservation of anything. B paid $1,000 of the purchase price in cash and A agreed to give B possession of the farm on March 1, 1913. Previous to the sale A had hauled some fence posts and piled them up in a pile, intending to use them in building a certain string of fence, but when the farm was sold the posts were in a pile and nothing was said about them by either party. Can A lawfully remove the posts, or do they belong to B?

Answer.—The posts not being made into a fence, nor set in the ground at the time the farm was sold, are merely personal property belonging to A, which he has a right to remove at or before he gives possession of the farm.

DRAINAGE—LANDLORD AND TENANT.

Mr. John Beuck, Avoca, Iowa.—(1) I have five acres of low land, adjoining just as low owned by a neighbor. The land has no natural drainage. I have tile drained my five acres. Can I lawfully fill up surface along the partition fence to keep my neighbor's surface water from coming on my land? (2) Where land is rented for grass and pasture has the tenant a right to hull clover seed?

Answer.—(1) You can lawfuly fill up the surface on your own land, on your own side of the partition fence. (2) This question is very vague and indefinite. There could not possibly be any clover seed to hull on land that is pastured. Now as to grass land, if you mean that the tenant rented it for hay making, and he pays cash rent, he can hull the seed from the clover hay he raises, but if he is to pay as rent part of the clover hay raised, he cannot hull the seed from the part he pays or delivers as rent.

Let This Galloway Disc Drill Increase Your Crops 1/3 to 1/2

Write Galloway Today!

Note These Special Improved Features

Open Hearth Steel Frame.
Open Hearth Steel Draw Bars for Discs.
9-Inch Roller Bearings.
Discs made of the very best Coulter Steel.
Light Force Feed, sows accurately Flax, Oats or almost any seed.
Chilled Feed Shaft Bearings
Chilled Disc Bearings.
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And Many Other Important Improvements.

One of the Best Investments You Can Make

Write Galloway for Full Description, Prices, Terms, Etc.

This Galloway Disc Grain Drill has been improved and developed until it now stands head and shoulders above any other Disc Drill in the world.

Has Stood Severest Tests

We have put this Drill to harder tests than it will ever be called on to stand in actual service. For years it has been used on the Galloway Bros.-Bowman big Canadian Farm and on William Galloway's Iowa Farm, doing actual work putting in a real crop.

That is the kind of test you can rely on because we crowded on to this drill more hard work in one season than a drill will get in ordinary use in four or five years. We wanted to bust the machine if we could and find if it had any weak points, but we found it so strong and durable that even the hardest work of the Northwest, where a drill must be built extra strong to stand up under the severe strain, will not affect it.

Our Guarantee and 30-Day Trial

We absolutely guarantee that these new Galloway drills are made of better material, have more exclusive and desirable features, are stronger and more durable and will stand up and give better service than any other line of disc drills ever made. We are perfectly willing for you to try one on your own place in any kind of soil, doing the hardest work you can put it to for 30 days. If at the end of that time you are not thoroughly satisfied that the machine is all we claim for it and by far the very best disc drill you ever saw, ship it back to us and we will refund every cent of your money and pay all freight charges.

Get the Big 144-Page Galloway Book of 1,000 Bargains

Full description of the Galloway Disc Drill Line is given in my Big Free 1913 Catalog showing everything for farm, home and family use. Hundreds of bargains that will save you real money. Don't fail to get your copy. Postal brings it Free.

William Galloway, President (281)

WM. GALLOWAY CO., 101 Galloway Station, Waterloo, Ia.

A Pound of Crop
is worth a ton of theory

When the deep tilling theory *realizes* extra crops it ceases to be a theory and becomes a fact.

If you want to know the facts about deep tilling and the Spalding Deep Tilling Machine, read what these owners have *actually done* with it—see what they have proved for themselves and *for you.*

Then, write for the book which goes into details as applied to the kind of land *you own.*

What DEEP TILLERS Say:

Martin City, Mo., Jan. 18, 1913. I have plowed 150 acres in the Little Blue bottoms in Jackson county, Missouri, since the beginning of corn husking and I am plowing 14 to 18 inches deep and turning stalks under so completely and well that you would hardly know that it is a cornfield. In fact, this plow is doing the swellest job of plowing I have ever seen. I bought a farm in this Little Blue bottoms, consisting of 283 acres, 200 acres of which was as level as a floor and 100 acres of this farm is shown on the U. S. survey map as being Wabash clay (in plain words, the stickiest gumbo ever). This 100 acres had never been plowed since Columbus discovered America and was entirely covered with swamp willows. (I mean covered, too.) I took this Spalding Machine and $5,000 worth of the biggest mules I could buy, put 5 head on this plow at a time, working 5-hour shifts, put them into this 100 acres and the work this plow did was a wonder to know and see. It put this wilderness into a seed bed, the best you ever saw. I planted this in corn and husked from 80 to 90 bushels per acre and am now finishing plowing this field for the second time. I have completely reclaimed this land and it is worth to cultivate $200 per acre any place in the U. S. and I feel that no other plow could do this work and I know that I am $10,000 better off for having known of this machine and having bought it. I consider this machine the most wonderful and valuable piece of farm machinery in existence and its invention will do more for future farming than all the agricultural colleges in the United States. I am now figuring on buying a tract of 680 acres of ground that can be made to raise large crops with this plow applied, which otherwise will remain wild blue stem, for reason of expense of putting into condition.

J. H. Wallace.

THE SPALDING DEEP TILLING MACHINE

Spalding Dept. 68, GALE MFG. CO., Albion, Mich.

12-Gauge Hammerless "Pump" Guns

The Marlin hammerless 12-gauge repeating shotgun, Model 28, is a fine-appearing, beautifully-balanced gun, without any objectionable humps or bumps; no holes on top for gas to blow out through or water to get in; can't freeze up with rain, snow, or sleet; it's solid steel breech (not a shell of wood) permits a thoroughly symmetrical gun without sacrificing strength or safety; **it is the safest breech-loading shotgun ever built.**

It is **Hammerless** with **Solid Steel Breech** (inside as well as out)—**Solid Top—Side Ejection—Matted Barrel** (which costs $4.00 extra on other guns)—**Press Button Cartridge Release**—(to remove loaded cartridges quickly from magazine without working through action) **Double Extractors—Take-Down Feature—Trigger and Hammer Safety.** Handles rapidly; guaranteed in shooting ability; price standard **Grade "A" gun, $22.60.**

Send 3 stamps postage for big catalog describing No. 28 A, B, C, D, T and Trap Special and all other Marlin repeating rifles and shotguns. Do it now!

The Marlin Firearms Co., 135 Willow Street, New Haven, Conn.

Martha Washington

New York's Exclusive Woman's Hotel
29 East 29th Street, Near 5th Avenue
Restaurant and Tea Room for Men and Women
European Plan. Rates $1.50 and Up.

Convenient to subway and crosstown car lines. Center of Theatre and Shopping District. 450 rooms with telephone. Baths free on each floor. Fireproof. European Plan.

The Most Profitable Types of Beef Cattle to Feed.

By Prof. H. R. Smith, Minnesota Agricultural College.

YOU are all aware that there is now a shortage of beef which is reflected in market values higher than at any time in our history. With a population 20 per cent larger than a decade ago and with 20 per cent less beef steers in the country, according to the census reports, do we have any cause for surprise? In years past a great western range has been able to supply a large part of the cattle needed. Much of this land is now under the plow. During recent years high-priced corn has discouraged feeding to a considerable degree. Veal calves and young, growing cattle have been sent to the market in large numbers and have been slaughtered for beef. There are other things which have contributed to restrict the growth of the beef industry in the United States. It is true that existing high prices are favorable to the producer. None of us want a return of prices which were current twenty years ago. However, the price of beef is now so high that a large number of our people are unable to buy. There has been a growing tendency to substitute other foods for meat and the injury to the trade caused by period of exorbitant prices is likely to be more or less permanent. It would be very much better for all concerned if we would adopt methods of reducing the cost of producing beef rather than force a high price level by curtailing the supply.

There are two ways by which we can increase the supply of beef and at the same time increase our profits from feeding: (1) By breeding more cattle on our farms and increasing their efficiency. (2) By using more care and skill in the combining of foods so that more beef can be produced from a given quantity of grains and grasses grown. These are two great factors in economical production. I shall confine my remarks to the influence of the animal.

A demand for a certain manufactured article brings out a machine so designed and constructed as to produce that particular article and nothing else, and it does so with the greatest economy. The most intricate, mechanical device is simple in its construction in comparison with the animal organism—a machine which has required generations of breeding to bring it to that form and function which makes it possible to produce beef in the largest quantity and of the finest quality from the vegetation of the earth.

Cattle of today are of two general kinds—the improved and unimproved. In the former class we have those which produce beef and those which produce milk with the greatest efficiency. In the latter, the so-called "mongrel" or "scrub" which is adapted for neither. The former has been bred for a purpose, the latter has not.

The dairy cow is a factory from which the product is taken each day. The beef animal is both a factory and a store house. In the rapidity of production there is a great difference in beef animals. Even among pure-bred animals of the beef breeds we find some of large gaining capacity and some small. Registration papers show that there has been no admixture of foreign blood, but it happens that not all men engaged in raising pure-bred stock are capable of selecting for greater efficiency so there has not always been improvement during successive generations of breeding. It is true, however, that practically all the men who have succeeded as improvers of the bovine race have confined their efforts to pure-bred cattle and we, therefore, find a much larger proportion of profitable types among pure breds and high grades.

The test of efficiency as to the quality of beef produced has been the market. The cattle which bring the highest price per pound are those which yield the largest number of pounds of the best meat. The expert buyer who follows his purchases to the block can tell by the outward form about how much a car load of cattle will yield and he fixes the price accordingly. This has been our standard of quality and it has been for the most part accurate, but the profit to the farmer depends as much upon the number of pounds as the price per pound. It would seem, therefore, that we should give just as much attention to inherent gaining capacity. As a matter of fact, we have not. There has not been the same sure test of quantity as quality. Differences in size of individuals of equal age, fed under like conditions have been noted by feeders, but practically no effort has been made to learn why some are naturally better gainers than others.

It was my good fortune while at the Nebraska Experiment Station to have facilities for keeping individual records of food consumed and gains made on approximately 150 steers and part of these records were kept from birth to the block. The calves used in these experiments represented what might be called good beef types, dairy types and mongrels. Approximately half the calves used in the experiment were grade Short-horns, the remainder consisting of a few specimens of each of the following breeds: Herefords, Angus, Red Polls, Holsteins, Jerseys and Guernseys. A comparison was, therefore, made of the feeding capacity of steers which represented different types within a given breed. Each calf was fed in a stall by himself and every pound of milk, grain and hay which he consumed during his life was weighed and recorded. A record was also kept of the gains made by each individual at stated intervals. The calves were fed in groups of eight each, and in these groups there were placed representatives of the different breeds and types named. The calves of each group were fed in the same manner, so that whatever differences in gains were noted could be safely attributed to the individual and not to the feed and surroundings. All the feeding was done in a barn, but open lots were provided for exercise. Of course, no pasture was provided. In most of the groups the calves were confined to the same quantity of food. In other groups each steer was given all that he would consume. It was observed early in the life of these cattle that certain individuals could be induced to consume much more than other individuals and the gains were correspondingly larger. It was found, however, that the gains made were not always in proportion to food consumed as certain individ-

The above is a likeness of the great young bull, His Highness 338002, at the head of the Short-horn herd of A. C. Shallenberger, Alma, Neb. Many cows bred to this bull and others with calf at foot will be included in the sale that will be made from this herd on April 10th. Send for the catalog now and mention The Homestead when writing.

LOW FARES to CANADA

Settlers! Go to Canada via the Duluth-Ft. Frances Gateway or via St. Paul and Winnipeg, over the **Canadian Northern Railway.** Even if you have already selected your farm you have the advantage of traveling from 1550 to 2500 miles through Canada's richest farming country. **Tickets on sale every Tuesday March 11 to April 29, 1913.**

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Saskatoon, Sask	24.15	22.35	26.94	24.10	16.00	15.00
Prince Albert, Sask	24.15	22.35	26.94	24.10	16.00	15.00
North Battleford, Sask	24.15	22.35	26.94	24.10	16.00	15.00
Edmonton, Alta	26.70	24.90	29.49	26.65	18.55	17.55
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will prove easier for you to handle, easier on your horses and will do your work better than any plow you can buy, regardless of price. It's positively the only plow that actually carries the beams **on top** of the frame. No pressure on bottom of furrow—no friction. Single Bail and Horse Lift; and "Point First" action.

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I'll give you a chance to prove every statement I make, and we'll pay the "damages"—freight *both* ways—if we "fall down" in a single assertion. I want to tell you all about these plows and our other implements—Cultivators, Disc and Spike Tooth Harrows, Grain Drills, Mowers, Rakes, Farm Gates and other farm tools—all sold at factory prices. Satisfaction guaranteed. Just write a postal for our complete catalog. It's free. Write to me, **The Plow Man,** with

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uals made larger gains on the same amount of food consumed by others. In this capacity to make gains it seemed to be not so much a question of breed as type.

In these experiments it was found that the difference in gains between individuals of a certain breed was greater than the difference in gains between the breeds. For example, with the twenty-four grade Shorthorns in one experiment there was a range in daily gains from 1.01 pounds to 1.79 pounds per day. In one group a Short-horn showed the largest gain and a Short-horn next to the smallest. In another group a Hereford showed the largest gain and a Hereford the smallest. Some of the dairy-bred steers proved to be excellent gainers and were in numerous instances near the top of their respective groups. This was especially true of the Holstein steers. The steers of the Jersey and Guernsey breeds seemed to make in some instances very satisfactory gains up to a certain age.

Referring again to the grade Short-horns used in the experiment it was found that some of the individuals which would be called inferior made gains equal to the good types. This was more especially true of that class which might be called rough and more or less rangy. In the last experiment, however, the average gain made by all the steers which were more or less wide and compact in build made slightly larger gains than the more rangy types. The great difference, however, in favor of the more blocky and compact type was found in the fact that they fatten more rapidly and become riper for market at an early age. This is a distinct advantage from the feeder's standpoint.

Careful measurements were taken of all individuals to show size of heart girth, middle girth, rear girth, width of chest, depth of chest, height from the ground, etc. The one measurement which seemed to be more closely associated with gains was the size of the middle girth. It would seem that steers must have plenty of depth and width of barrel to give room for the organs of digestion. Slender bodies were not associated with large gains in these experiments.

As previously stated, while the dairy-bred steers made satisfactory gains in many instances, they did not sell with the better bred steers at the close of the experiment at the same age, even though fed under the same conditions. The dairy-bred steers, more particularly the Holsteins, lacked covering, especially over the back where we get the higher-priced cuts of meat. This was also more or less true with the Jersey and Guernsey steers. They were also deficient in hind quarter. These deficiencies from the market standpoint were such as to cause the dairy-bred steers and the mongrels to undersell to a considerable degree the better-bred beef cattle, and it was in their selling value we found the greatest difference from the standpoint of profits.

The largest profit ($24.43) over and above the cost of feed was made by a well-bred Short-horn steer, No. 18. The next largest profit ($23.99) was made by a well-bred Hereford, the third largest gain ($23.56) was made by a Short-horn steer, No. 27, and the fourth largest gain ($21.14) by a Hereford steer, No. 47. The poorest showing was made by a Jersey steer, No. 47, which lost $4.52 during two experiments. The second poorest showing was made by a Red Poll steer which lost $6.09 during three experiments. The third poorest showing was made by an inferior steer with no particular breeding, but one which showed some Short-horn blood. This steer made a total profit of $4.90. Next to him was a Holstein, No. 75, which made a profit of $6.42 over and above the cost of feed in each case.

The results as a whole emphasize the importance of breeding in beef cattle. While it is frequently more profitable to buy the more common feeders if they can be had at a low figure, it never pays to breed them. It is the one who breeds such cattle that is the real loser. The question of type in beef cattle is a most important one. Every effort should be made to learn what type make the largest gains and what type brings the largest price per pound. The model type is the one which combines both gaining capacity and one which has a conformation which yields a carcass that brings the largest price on the market. Let us hope that much progress will be made in breeding these types and encouraging their use in our feed lots.—[Address before International Association in Chicago.

The above illustration is a likeness of a group of two-year-old imported Belgian mares, imported and owned by R. F. French, Independence, Iowa. See his advertisement elsewhere.

GROWING STRAWBERRIES.

To the Editor of The Homestead:

A Kansas subscriber inquires about berry growing. She asks what to do with the runners, how to protect in winter and how long a bed will last to profitably produce fruit. She calls for someone who has had experience to tell what they have learned. This writer has had experience, and can tell the inquirer exactly what to do about it, and what to expect.

A bed of berries will yield two good crops. Planted in the spring of 1913, they will yield bountifully in 1914 and 1915, and should then be replaced, or it is possible to so renovate the bed as to secure good crops for a few years more. The manner of culture will depend somewhat upon the variety planted. If you set a general cropper like Dunlap, plant eighteen by thirty-six inches, your best plan is to let the runners grow and by turning them parallel with the rows you will have in the fall what is called matted row. But if you plant a non-running variety like the Heritage set them closer, rows thirty inches apart, and plants twelve inches in the row, then by cutting all runners you will have heavy crowns and a fine prospect of fruit upon the hill system.

The difference in results would likely be this, more quarts of berries by the matted row plan, larger berries by the hill plan. Without any doubt you can succeed in berry growing, and it is very doubtful if there is any way of using a town lot more profitably. A space 50x75 feet will if given good care yield from 750 to 1,000 quarts of fruit. At a shilling per box this will approximate $100.

The matter of protection in winter is one of importance. The purpose of protection is to keep the plants in a frozen condition. It is the changes of the winter season which injures the plants, the alternate freezing and thawing.

The manner of winter protection is by mulching. Apply a coating of some refuse, hay, straw, leaves, cornstalks, bagasse, or evergreen boughs. Let it be two inches thick, enough so that all the leaves are covered. This will hold the frost when the bed is once frozen. And even if not frozen the plants will be protected from the sun and wind.

If you try the matted row system, after two years you will find the rows getting too wide, and weeds of all kinds creeping in to the injury of your prospects. Indeed it is likely that by this time all the ground is covered with plants. In that case have two-thirds of them plowed under. So plow as to turn under all the old rows, but leave a space just as much as the old rows, in the center of the row spaces. Weed these new beds out by hand carefully, and after this is done harrow the whole patch. It should be said that before you plow the patch should be moved off, and all the rakings gathered and burned. Then after the plowing and weeding is done harrow vigorously. It may appear to you at first that nothing is left, but never fear, in a little time new leaves will appear, and you will have bright, fresh rows coming on vigorously for next year.

If this work is done thoroughly and done at the right time, it will be successful. The right time is immediately after the crop is gathered. Do the renovating act promptly. The very day after the last quart of berries is gathered mow, rake and plow. You will lose money by every moment of delay. The new rows will need every hour of the remaining season of growth to perfect their fruit buds, gathering strength and vigor, for the new season of effort.

In no other garden work, no other crop grown, is it more important to do the necessary work, at just the right time, than it is with the strawberry. And it is also true of the weeding, and cultivating. Do it promptly and let not one day pass when the work is due. H.

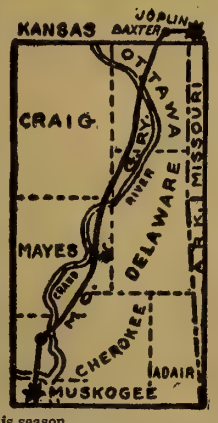
NEW LAND

NEW TOWNS ALONG THE NEW

M.O.&G.RY.

IN OKLAHOMA

A million acres in the five northeastern counties of Oklahoma have remained unsettled because the nearest railroad was 10 to 35 miles away. The new northern extension of the Missouri, Oklahoma & Gulf Ry. from Muskogee to Joplin, Mo., 130 miles in length and running for a distance of 90 miles through the rich valley of the Grand River, is now completed through this section and both passenger and freight trains are being operated. New towns are being built and thousands of farms will be put in cultivation this season.



COST Land in Cherokee, Delaware, Mayes, Ottowa and Craig counties is to be had at $35 o $50 per acre which will soon advance in proportion to the older settled counties.

CROPS All kinds of live stock and grain farming is adapted to this section. All grains and grasses, and all live stock which is grown in Iowa, Missouri and Kansas is successfully produced here.

RAINFALL This part of Oklahoma is in the 40-inch rainfall belt and has an abundance of pure water for both household and stock. The climate is mild and pleasant, being just between the cold North and the southern heat.

This railroad has no land to sell. We simply furnish reliable information concerning land and new towns tributary to our road to prospective settlers. This is a proposition you should not overlook. Write today to

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Land at $10 an acre up

Alfalfa makes 4 to 6 tons per acre; Corn 60 to 100 bu. All hay crops yield heavily. Beef and Pork produced at 3 to 4 cents per lb.—Apples pay $100 to $500 an acre; Truck crops $100 to $400; other yields in proportion.

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Mobile & Ohio R.R. or Ga. So. & Fla. Ry. will help you find a home in this land of opportunity. Booklets and other facts—free.
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LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

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Mrs. Farmer Have your husband write for our free literature on choice Northern Minnesota lands near Duluth. Land Commissioner D. & I. R., R. R., 116 Wolvin Building, Duluth, Minnesota.

CENTRAL MISSOURI. Write for list of corn, wheat, clover and blue grass farms, described and priced, that will prove profitable and satisfactory for homes. Mild, healthful climate. Hamilton & Crenshaw, Box 3, Fulton, Missouri.

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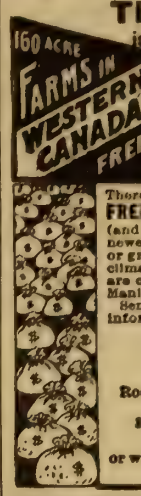
The Price of Beef

is High and so is the Price of Cattle.



For years the Province of ALBERTA, (Western Canada) was a Big Ranching Country. Many of these ranches today are immense grain fields and the cattle have given place to the cultivation of wheat, oats, barley and flax, the change has made many thousands of Americans settled on these plains, wealthy, but has increased the price of live stock.

There is splendid opportunity now to get a **FREE HOMESTEAD OF 160 ACRES** (and another as a pre-emption) in the newer districts and produce either cattle or grain. The crops are always good, the climate is excellent, schools and churches are convenient and markets splendid in Manitoba, Saskatchewan or Alberta.

Send at once for literature, the latest information, railway rates, etc., to

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W. V. Bennett
Room 4, Bee Building, Omaha, Neb.
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315 Jackson St. St., Paul, Minn.

or write Superintendent of Immigration, Ottawa, Canada.

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I HAVE a finely improved farm of 280 acres, two miles from good town, only 18 miles north of Iowa line, at $55.00 per acre. $2,500 cash will handle this fine farm—and it certainly is a fine one. Also have a fine farm of 320 acres at $70 per acre, and one of 400 acres at $75.00 per acre. Any one of these are worthy of your consideration.

11 sections of selected prairie land in Lincoln county, Colorado, at $9.50 per acre. This tract will make a fine colonization proposition.

18 sections in Billings county, North Dakota, in a very fine stock ranch with good buildings. Northern Pacific Railroad runs through the land. Will sell at $5.00 per acre. Small cash payment. Balance to suit at 6%. The coal alone on this land is worth many times more than the sale price of ranch.

In Wisconsin I have some very fine cut-over lands that are suitable for dairying. Finest water in the world. Greatest tame grass country in the United States. Lands are near markets and will sell at $7.50 to $10.00 per acre, upon your own terms. A small cash payment will secure you one of these tracts. Write for information concerning any locality you may be interested in. Geo. R. Slocum, 601 Pioneer Building, St. Paul, Minnesota.

The Pea Fed Hog's Home

I OWN a few farms I want to close out near Romeo, the best district of the famous San Luis Valley, where hogs are raised at the rate of 300 to the quarter section and at a cost much less than in the corn belt Sure water for growing crops. Abundant yields of small grain. Alfalfa, potatoes, small fruit and other crops do well here. The country is well established. Good school and church accommodations. Most of the farms I have are improved ready for occupancy, and will increase in value yearly.

ROMEO SAN LUIS VALLEY COLORADO

Zeph. Chas. Felt - Romeo, Colorado.

2 UNION County, Iowa, 80 a. farms for sale at $125 each; good 7 room houses, good barn, granary, well, wind mill and other outbuildings; one 5 miles from Creston, the county seat; one 3 miles west of Shannon City.

160 acres S. E. of Redfield, 2½ miles in Dallas Co. House, barn, granary and well with windmill. Improvements run down. This is a snap, $65. A good stock farm for someone.

200 acres, Wayne Co., 2½ miles from a new town on C. & R. I. extention Des Moines to Allerton, near the Lucas county line, south of Chariton, at $30 a. Any of the above farms on any reasonable terms. **E. E. Girton,** 605 Crocker Bldg., Des Moines, Ia.

WE WANT YOU to know about the greatest section in the irrigated West. Richer soil cannot be found anywhere; climatic conditions, railroads, churches and educational facilities are the best; in fact this is a section possessing all the advantages of a populated community and none of the hardships of recently reclaimed districts. Here is opportunity for the farmer, dairyman, orchardist and investor. Write for literature that will open your eyes to a great and growing country. Mountain Home Co-operative Irrigation Co., Mountain Home, Idaho.

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FULLY improved and equipped Manitoba farm for sale containing 1,200 acres; 500 ready for crop. 200 with river frontage. Ten-roomed house, barn forty by seventy; every thing first class. Near city of Brandon. Will stand strictest inspection. Owner retiring. $40 per acre; easy terms. For full particulars write **A. D. CAMPBELL, 637 Furby St., Winnipeg, Manitoba, Canada.**

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CROP BRINGS $80 PER ACRE A Wisconsin farmer sold oats (for seed) from 35 acres for $2,800. This is ordinary in Wisconsin. This man says he can duplicate quality in cheap Upper Wisconsin land districts. We will tell you about it (no land to sell). Wisconsin Advancement Ass'n, 331 Caswell Block, Milwaukee, Wis

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IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

FOR SALE Good 200-acre, level, rich soil, imp. farm in Wisconsin; ¾ mile to high school, 2 railroads and creamery. Gold mine for the right man. Address L. B. 5, Necedah, Wis.

FOR SALE—Deeded land and desert and homestead entries, well improved and under a good ditch. Write for further information to WILLIAM TEW, STERLING, COLORADO

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa

ISLE OF PINES LAND Improved and unimproved. Have some good trades. H. S. Clow, Des Moines, Iowa.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

Fattening Steers With Little Corn.

By George H. Dacy.

FOR many years English stockmen have been annually fattening good quality steers that were the equal of American corn-fed beeves without using any corn in the ration of these animals. Last year we passed through an era of expensive corn and many feeders temporarily were forced out of the business on account of the high price of corn. Throughout the corn-belt states corn and cottonseed meal are the major nutrients that are employed in finishing the beeves to the desirable market bloom. However on the outskirts of the corn belt where corn is neither so plentiful nor so cheap it is necessary to utilize less costly grains in developing the majority of the gains on the beeves.

The utilization of farm wastes and by-products for steer and hog feeding is to be highly recommended where these materials are rich in carbohydrates that are necessary for fleshing up the steers for market. Of course nothing but wholesome grain and roughage should be fed. The practice of feeding badly damaged feed that is not fit to be placed before the animals is to be condemned. The rice farmers of Arkansas convert their rice that either cannot be harvested or that is not up to market requirements after it is harvested into profitable beef and pork. All of them practice the method of grazing steers or hogs in their stubble rice fields after the threshing operations have been completed. The stock rustle a good living from the rice that otherwise would go to waste. Where a portion of a field of rice is not up to the standard quality of the whole crop the owner often will fence off the inferior part of the crop and then he will liberate either hogs or steers in the field to harvest the crop. Steers and hogs both wax fat on the rice and rapidly attain the wished for blockiness and fullness of conformation that typify the fat animal.

Country men who live outside of the rice belt utilize blue-grass pasturage to maximum advantage in developing beef of good quality and marbling. Many successful feeders turn their steers directly from the blue grass onto the market at profitable returns. The production of grass-fed beeves is one of the easiest and most profitable modes of stock farming. The minimum of care and attention in catering to the needs of the animals is necessary. During a dry summer it is occasionally necessary to feed green corn as a soiling crop to these beeves. In some instances it pays the feeder to supply the beeves with ear corn in a dry lot for several weeks before they are placed on the market, but ordinarily this extra work is not necessary.

Many country men have tried to substitute other grains for corn in the fattening diet of the steers. Many grain growers have come to appreciate that much of their grain that is "off grade" could more profitably be converted into beef on their home farms than to sell it at cut rates on the market. Formerly the cattle of the northwestern states were shipped to the corn belt to be finished for market. At present a large number of these animals are being directly fattened at home and sold on the St. Paul market. Straw that was formerly burned is now being used as a roughage for the winter feeding of these steers. Such a practice makes possible the saving of about 20,000,000 tons of straw per year in the two Dakotas alone.

As an illustration of the practical use of other feeds than corn in the fattening ration it is only necessary to mention the results of an experiment conducted at the North Dakota Agricultural College. Barley, wheat, oats and emmer are grown extensively in this state in addition to corn. Varieties of corn that have been acclimated to local conditions yield as high as fifty-five and sixty bushels to the acre. As yet little of the corn is cured and husked for market as the demand for ear corn is relatively slack. The custom is to feed the corn out in the bundle as this minimizes labor and waste. For a four-months' period seven grade Shorthorn steers were fed a ration of two parts of ground barley to one part of wheat bran supplemented by small amounts of corn fodder, and millet, wheat grass, and oat hay. The animals were fed in the open lot and allowed access to a shed for shelter. During the 132 days that these beeves were fed they made a daily gain of 2.14 pounds per animal, on the average each steer ate about 6.57 pounds of grain for each pound of gain in live weight that he showed. In the slaughter test the steers dressed an average of 62.4 per cent.

Various factors such as high-priced labor and the need of purchasing some of the feed caused the net profits from these beeves to be less than they would have been under ordinary farm conditions. The seven steers were purchased weighing 1,321 pounds per animal at three and one-half cents a pound while they were sold weighing 1,500 pounds apiece at 4.65 cents per pound. This left a net profit of $7.57 per steer when all the expenses for feed were deducted. The steers consumed 5.21 tons of barley, 1.61 tons of bran and roughage that was worth $25. This feeding trial indicates that the average daily gain was as high where ground barley and bran were used as where corn was

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With this rig you can do more work in one-half the time than three men and three teams can do in a day. It hits the nail right on the head and it is built for the hardest wear and tear It is guaranteed to give the best of service and satisfaction. Notice the size of the wheels, the large hubs, heavy, durable spokes and rims, axles strong and yet not too heavy, and wheels of just the happy medium—neither too high nor too low. You can put on the back seat and take your family to church or for a pleasure ride; you can haul your pigs, calves, sheep, milk, poultry, eggs and vegetables to market and be back home again before you could even reach town with a horse and wagon. Just think of the convenience of a rig of this kind When you want something from town in a hurry you can jump into this transport and you have got it before you know it You can go to town for your groceries, flour, feed, furniture, hardware, cement and lumber or anything you can think of and you can do it cheaper than you can drive a horse and wagon.

HOW I MAKE THE PRICE

There is only one way that I could make a price of $595 on a rig of this kind, and that is by making them in big quantities Remember this auto transport is no toy It is practical, durable and built of the best material that could possibly be used for the purpose intended, and will give you all the service and satisfaction any car could give you even though it cost you twice as much. Send for full description and my special introductory offer that will help you pay for the transport and make you money at the same time. Write me today and you will be mighty glad of it

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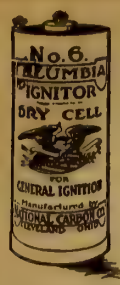

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These and hundreds of other questions that you want answered are clearly and distinctly covered in our new book just issued entitled "Alfalfa—Wonder Crop". This remarkable book contains a priceless fund of information about alfalfa growing, secured from many sources; United States Government, State Experiment Stations, the best posted authorities and successful growers. In simple language, easy to understand, it tells just the things that you want to know before you start to raise this greatest of all $cash money$ crops. This book will convince you that you have some land on your farm where you can profitably grow alfalfa. This information was secured at a great cost of time, money and research. It tells how to grow alfalfa, how to get results from first planting, how to select the field and prepare the soil. It tells all about fertilization, plowing, liming, preparing the seed, when to plant and how to plant. Tells what to do during the growing period, how to get bigger than average crops, and how to cut and cure. The contents of this book are worth many dollars to the farmer interested in growing alfalfa. This book is ordinarily sold for 25 cents but we will gladly send it without cost or obligation of any kind if you answer at once. Don't put it off—write for free book today.

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Shirley President Suspenders give longest and most comfortable service for dress or work.

The back slides and prevents binding on the shoulders.

Light, Medium, Extra Heavy. Extra lengths for tall men.

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MEAD CYCLE CO., Dept. W 184 CHICAGO

the principal feed in the fattening ration.

On account of the large quantities of wheat that annually are not marketable and in consequence are practically wasted a second test was carried out to determine the value of rejected wheat in the fattening ration. Two lots of grade steers of good quality were used in this experiment. These animals were wild range cattle and for the first month they were fed a little grain on scant pasturage in order to accustom them to grain. For the next two months they were fed on corn fodder. They were run in an open lot with access to water and a shed for shelter. Lot 1 was fed on a ration of three parts of ground, rejected wheat and one part of bran. After about two months it was necessary to reduce the bran content of the menu which was too laxative. Lot 2 were fed a diet of three parts of corn meal and one part of bran. Slough grass, millet, wheat grass, and oat hay were fed to both groups of steers. For four months the two lots of steers were maintained on these rations.

The results of the test proved that the corn-fed lot made 52.3 per cent greater daily gains than did the wheat-fed animals. The wheat-fed beeves put on a profitable growth but did not fatten readily. They ate 13.5 pounds of grain for each pound of gain while the corn-fed steers consumed only 6.47 pounds of cornmeal per pound of gain. However, the difference in the cost of the gain was practically nothing as the wheat was so much cheaper than the corn on the market. As neither of the lots of steers were ready for market it was decided to feed both groups for seven weeks longer on the corn-bran ration. The former wheat-fed animals made phenomenal gains when placed on the wheat ration, averaging an increase of 3.08 pounds a day. The corn lot made no greater gains than before. For the entire feeding period then the wheat-fed animals gained 1.42 pounds daily while the corn-fed steers gained 1.47 pounds per animal per day.

The results of this trial show that rejected wheat and bran would furnish an excellent ration on which to feed the steers during the first part of the feeding period where subsequently they were finished on corn. The cost per pound of gain for the wheat-fed beeves was $.075 while for the corn-fed group it amounted to $.093. To feed corn for the entire period was, therefore, less profitable than to feed wheat for the first sixteen weeks and corn for the last six weeks. Such results conclusively demonstrate the practicability of reducing the expense of the finishing and fattening ration by the use of other grains than corn in the menu during the first few months of the feeding period.

AIDING FARMERS IN FINDING HELP.

The Iowa Public Welfare League has opened a free employment bureau and will register Iowa farmers and aid them in securing farm hands. Men from any state who want work on farms will be registered free also. No fee whatever will be charged. Farmers and farm hands are invited to register with the league. They will then be put in communication with each other by the league and the matter of testimonials and wages will be adjusted between the parties themselves.

When a farmer secures a hand or a hand secures a place it must be reported back to the league at once so the name can be checked from the list and time not lost in writing about places already filled or help already hired.

In registering, farmers will state the class of help wanted and the wages to be paid and farm hands will state age, experience, habits, nationality, wages wanted and locality prefered. Address all applications to Iowa Public Welfare League, 507 Good Block, Des Moines, Iowa.

The hired help problem seems to grow harder as the years go by and it is rather hard to guess why. The wages are high and the work is not as hard as it used to be. The only reasonable explanation seems to be that the young man of today wants to work as near town as possible in order to spend his money before it burns holes in his pockets.

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Get Genasco Roofing of your dealer. Smooth or mineral surface. Guaranteed. Genasco smooth surface roofing has the **Kant-leak Kleet**, that waterproofs seams without cement, and prevents nail-leaks. Write us for samples and the Good Roof Guide Book, free.

The Barber Asphalt Paving Company

Largest producers of asphalt, and largest manufacturers of ready roofing in the world.

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Over eight million men buy "Ball-Band" Goods every year and over 45,000 dealers sell them. Look for the Red Ball—the "Ball-Band" trade mark—and write us if your dealer cannot supply you in "Ball-Band" Boots. We will see that you are fitted. *Write for Free Illustrated Booklet.*

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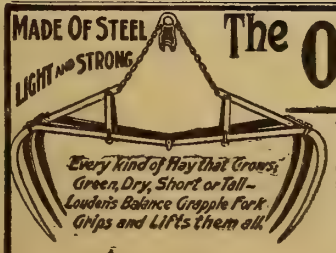

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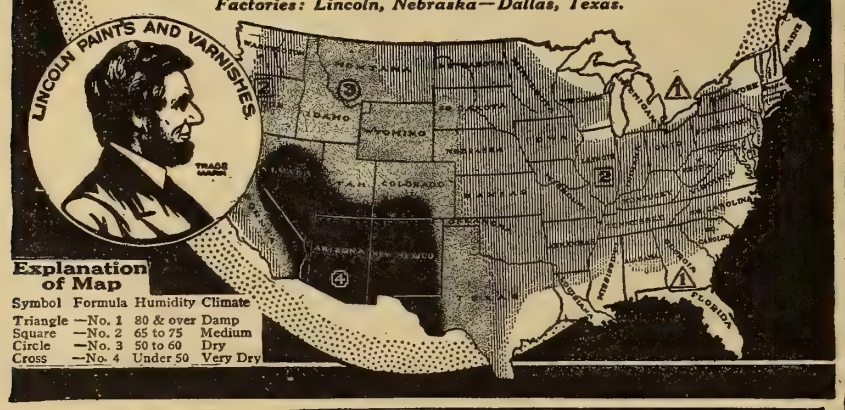

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We Guarantee the Wing Piano for 40 Years.

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BOYS-

LOOK HERE!

WM. GALLOWAY OFFERS YOU YOUR CHANCE

I want every ambitious boy over 10 years old to send me his name and address (a postal card will do) so that I can tell you about a splendid opportunity I've got for you.

Wm. Galloway, Pres.

I Was a Boy on the Farm

Only 16 years ago. The first actual money I ever made was from selling water melons I raised, myself, at 10c apiece. The next money I earned came from answering an advertisement something like this in the Iowa Homestead. This started my business career.

Answering This "Ad" May Start Your Business Career

We want to introduce our pure, genuine and unadulterated field, farm and garden seeds in every neighborhood in the U. S. for 1913. We need your help. I am not only going to pay bright, ambitious boys **real money** for their work, but I also have

Many Splendid Prizes

For boys who do the best work. I am going to give a lot of cash prizes—every boy has an equal opportunity. It's a fine chance to get started in business for yourself. The work is light—easy—pleasant—profitable. Just begin at home. Your own folks need seeds—nearly every home in your neighborhood will help your business grow. **On a Postal, just say:** "I want to know more about your business offer to boys." Write plainly. I will then send you—**Free**—our Beautiful Seed Catalog—new, original, different from all others—and my Special Offer of Fine Presents—with full details of the offer. **Wm. Galloway, Pres.**

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THE HOME

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WITH THE EDITOR.

"The kiss of the sun for pardon,
The song of the birds for mirth;
One is nearer God's heart in a garden
Than any place else on earth."

Does it seem a little early to be thinking of a garden? It is not, really. Although the breath of March be cold, sometimes fierce and blustery, his reign will soon be over, and with balmy April it will be time to work out the plans which, if not laid in March, mean loss to those whose needs would be served by a well-thought-out well-wrought-out garden.

There is so much to be said on behalf of a garden that one does not know where to begin. Wherever one's list of benefits starts, however long it may be, some things are certain to be left out.

Since we Americans are nothing if not practical and farm-folks are extra practical, let us glance at the practical benefits of a garden.

Everyone who lives on a farm knows that securing fresh meat is next to impossible where it is not actually impossible on the farm during the heated term. The housewife has been wont to complain of this, but latterly she is told that a low protein diet is decidedly preferable in summer time, that meat is heating to the blood and does not, as we once thought, generate energy, and that animals are so subject to disease that eating their flesh is a menace to health.

Also there is the question of cost. Think what one has to pay for meat in these days, or if one sells what prices meat brings. If the farm home can eliminate meat eating or reduce meat eating to a minimum think of the gain in hard cash.

Let us content ourselves for the present with these two arguments in favor of a meatless, or a scant meat food supply during the summer, let us agree that if we can replace meat on the family table that we would be gainers in health and pocket. What then? Why, we have swung back to a garden. If people do not eat meat something must be provided to take its place and what so good as garden stuff rich in the carbohydrates which relieve the human system of the deadly uric acid attendant upon meat-eating and which, moreover, builds up a sound digestion and a healthy system.

What a large part of a good garden, one where both vegetables and fruits are raised, plays in supplying the family table only those who have experience are able to testify with authority, but we all have some experience and most of us have some imagination. Let us use both here and now.

When the appetite is jaded and needs to be tempted the well planned garden yields radishes and cress and lettuce which supply elements required by the system in the spring time. Following on come early peas and beans and between are rhubarb and strawberries. It is a brave beginning to a procession of good things which last until "the frost is on the pumpkin" and the late sweet corn and unripened tomatoes take their place on the bill of fare. Meantime self-sealers and other vessels have been filled with good things for winter use, the root cellar is heaped with potatoes and turnips, parsnips and cabbages, and shelves are loaded with canned corn and tomatoes. Not only has the family enjoyed a continuous feast of luscious, wholesome food all summer, but provision has been made for winter time when green food stuff is unavailable and when canned goods bring good prices.

There is another practical argument in favor of a home garden. In the garden there is work for the whole family, work which may be made a bond of union as well as means of development and a source of income for the children.

Sometimes we hear it said that home life is dying out. The different members of the family have each their own interests, each goes his own way, and when maturity is arrived at the family bond instead of being strong and sweet is of such fiber that separation and silence too often make mere strangers of sisters and brothers. Let the family as it is growing up do things together, let them cultivate mutual interests and this tide would be stemmed.

But these are not all the practical benefits. Even in the country the housewife frequently gets less fresh air than is good for her. A garden invites work in the open. There is no better tonic than breathing the cool morning air while the world is waking from slumber and everything is fresh and sweet and calm. The garden in the early morning is a temple where the soul may commune with nature and gather strength and serenity for the day. The house may lack beauty for which the soul hungers, but not the garden if the gardener has seeing eyes and puts love into the work. The Great Gardener loves beauty and He so orders things that every garden may be a place of delight to those who work therein.

Need more be said to incite to the

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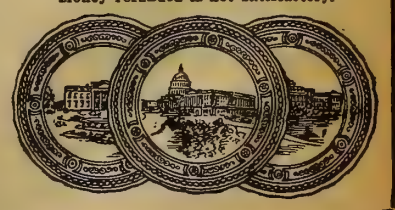

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The soft velvety finish of our "Hawthorne" pattern delights the eye of every housewife. The jeweler you trade with will be glad to offer it for your inspection.

Add to its beauty the guaranteed wearing qualities of Rockford silverware and you have silver that lasts a lifetime.

Our silver is for daily use. It is plated 50% heavier than standard lines, and is of uniform quality.

Hawthorne pattern

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Our beautiful finish comes from use of platinum, a metal more costly than gold.

For forty years, we have stamped our name on every piece of our goods. For forty years the jeweler you trade with has offered you our ware. He handles our goods because of their unquestionable quality. Yet, our price is no more than other standard lines.

Send for interesting booklet "Exclusive Silverware"

This booklet tells the story of our silver. State whom you trade with, and we will gladly send it—free.

ROCKFORD SILVER PLATE CO.
100 Wyman St. Rockford, Ill.

making of a garden? Need more be said to stimulate better gardens? Surely no.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

God, I am glad to live today,
To do the very best I may
With common things in hand,
Nor sacrifice the understood
For any type of higher good
I may not understand.
—Harriet Lake-Burch.

THE BLESSING OF WORK.

Blessed is he who has found his work; let him ask no other blessedness. He has a work, a life purpose; he has found it, and will follow it! How, as a free-flowing channel, dug and torn by noble force through the sour mud swamp of one's existence, like an ever-deepening river there, it runs and flows—draining off the sour festering water, gradually from the root of the remotest grass blade; making, instead of a pestilential swamp, a green, fruitful meadow with its clear-flowing stream. How blessed for the meadow itself, let the stream and its value be great or small! Labor is life; from the inmost heart of the worker rises his God-given force, the sacred celestial life essence breathed into him by Almighty God; from his inmost heart awakens him to all nobleness—to all knowledge, "self-knowledge" and much else, so soon as work fitly begins.—Thomas Carlyle.

SEEDTIME PLEASURES.

I've just received a catalog
Fresh from the seedman's store,
A gorgeous book of fruits and flowers
And vegetables galore;
And I can hardly wait until
The winter's ice and snow
Melt from my well-loved garden plot
To spade and rake and hoe.

For in this catalog I find
New radishes and peas,
Six kinds of lettuce, eight of corn—
I want to try all these;
Cucumbers slim, cucumbers fat,
And limas short and tall,
And melons, cabbage, beets and greens—
I want to try them all.

Tomatoes, ten varieties,
And onions white and red,
Asparagus and celery—
I want of each a bed;
And turnips early, turnips late,
Potatoes by the score,
And squashes, my! don't say a word,
A dozen kinds or more.

I herewith thank the seedman kind
For sending me his book.
When all these things are coming on,
How pretty they will look!
And when the frost has left the ground,
Amidst the robin's song,
I'm going to plant my total plot—
Twelve feet by twenty long!
—Joe Cone.

HOW TO HAVE EARLY CUCUMBERS.

In March take egg shells, fill them with dirt and put three cucumber seeds in each one, then set the shells in a shallow box partly filled with earth. Keep moist and in a sunny place, and by the time you could plant cucumber seeds out of doors you will have plants ready to vine. Simply set the shells containing the plants in your prepared hills; the shells will crumble away.

HINTS FOR IRONING DAY.

Cut a piece of sandpaper 4x8 inches and tack or glue it to the end of the ironing board. One or two strokes of a rough iron over the sandpaper will make it as smooth as wax could do.

Pour melted paraffine into a cup, first lining the cup with cheesecloth. When set, remove, then tie ends of cloth together and use to smooth the irons. The ends of the cloth will make a good handle.

Try using a thick block of wood for an iron stand, instead of an ordinary open iron one. The irons will retain their heat much longer than if the open stands are used, and a good deal of time and strength will be saved by making fewer trips to the stove.

FROM THE HOME COOK BOOK.

Spanish Stew.—Cook together for one hour a medium-sized onion, sliced, one can of peas, one can of tomatoes. Season with salt, butter and black pepper and a small pinch of cayenne. If any of this stew is left over put it into the next day's soup.

Steamed Potatoes.—Fry three or four slices of salt pork and when done pour enough hot water on it to fill the frying pan or skillet (preferably the latter) two-thirds full; then slice into it five medium-sized or large potatoes. Season with salt and pepper and when cooked allow them to brown before taking them from the vessel. Either sweet or white potatoes can be used in this way and sometimes I even slice a large onion in with the potatoes.

Cornmeal Mush.—When boiling meats save the soup they are boiled in. If some cold meat is left over which seems hard to use in other ways run it through the food chopper and add to the soup. Put it all on the stove and let come to a boil, then thicken with cornmeal. Pour into baking powder cans to cool, then turn out and slice, roll in flour and fry brown in hot lard. Served with butter and sirup, eggs and coffee this makes a good breakfast.

Sunshine Cake.—Whites of eleven small eggs, yolks of six, one and one-half cupfuls of fine granulated sugar sifted four times, one cup of pastry flour sifted four times (if you have not pastry flour use two tablespoonfuls of cornstarch, then fill up with the sifted flour), one teaspoonful of cream tartar added to the whites after they are slightly beaten, then beat stiff, pinch of salt, flavoring. Beat the yolks before beating the whites, as you must not let the beaten whites stand; add the sugar to the whites, beat and add the yolks and flavoring; beat again, then fold in the flour, lightly bake in a slow oven at least an hour or more. Slow baking is the secret of a fine cake.

AMONG OURSELVES.

Sometimes while preparing the program for our meetings your chairman hears very nice things about our paper and our Home Department. "Mrs. Victor Iowa" has been whispering to me that her family has been reading this farm paper for nineteen years. Just think of that. "Mrs. Victor Iowa" raises poultry and she frankly says that it is after she has read the poultry department that she turns to the Home Department which she values highly. Then "Mrs. Independence Kansas" has been telling me that her father was a subscriber when she was a little girl and when she grew up and married she had come to consider our paper such a household necessity that they have been taking it almost continuously ever since. It is very pleasant to hear things like this, and it should encourage us all to do our part to make the Home Department worthy of the paper.

Our friend "E. S." who values "Little Helps by the Way" brings us some quotations which have helped her. She hopes they may help some of us also, I doubt not but that they will:

And ever near us, though unseen,
The dear immortal spirits tread;
For all the boundless universe
Is life—there are no dead.
—McCreary.

Yesterday is but a dream; tomorrow is but a vision. Let us so live each today that each yesterday will be a dream of happiness and each tomorrow a vision of hope.

It is a thousand times better to make a mistake now and then than to never move at all.

That man is blest, who does his best and leaves the rest, so do not worry.

"E. S.," has other things just as good among her clippings, but she feared to make her stay too long. Let us hope she will come with the others another time.

Mrs. Osgood from the Canadian Northwest will talk with us about that very important thing "The Gentle Voice:"

I know some homes where it is not pleasant to be even a visitor. Sharp, angry tones always resound through them from morning till night and the influence is as contagious as measles and much more to be dreaded in a household. The children catch it and it lasts for life, an incurable disease. Children catch and imitate cross tones. Where mothers set the example you will scarcely hear a pleasant word among the children in their plays with each other. The discipline of such a family is always weak and irregular. The children expect so much scolding before they do anything they are bidden; while many a home where the calm, firm tone of the mother or a decided look of her steady eye is law, never think of disobedience, either in or out of her sight. It certainly is worth a great deal to cultivate that "excellent thing in a woman," a low, sweet voice. If you are ever so much tried by the mischievous or wilful pranks of the little ones, speak low. It will be a great help to you to even try to be patient and cheerful, if you cannot wholly succeed. Anger makes you wretched and your children as well. Impatient, angry tones never did the heart good, but plenty of evil. You cannot have the excuse for them that they lighten your burdens any, as they tend to make them heavier. For your own, as well as your children's sake, learn self-control. They will remember your tones when your head is under the willows. So, too, will they remember a harsh, angry voice. Which legacy will you leave to your children?

It is a good thing for us to hear such words as these. Even the best of us are prone to allow impatience and vexation to affect our voices, to no good end, as our friend points out. If we could but hear our own voice I think we would sin less often in this direction. Suppose we try to listen to ourselves when we are tempted, the mere effort would steady and strengthen us, I fancy.

Mr. Severin brings us some thoughts which may prove helpful to those of us who have been passing through deep waters:

Beautiful the little modest flower that blooms fresh and sweet after the winter's blast and rain and hail of spring. Nothing can come from above so as to keep old Mother Earth from growing green again by God's blessing. Beautiful the soul that blooms in true faith and nobleness after the storms of trials and adversities are calmed. Nothing can befall a mortal if that mortal trusts in God at the darkest hour. For that faith shall turn the darkness to light of rosy morn. Why does night come with its darkness. Do we not appreciate the

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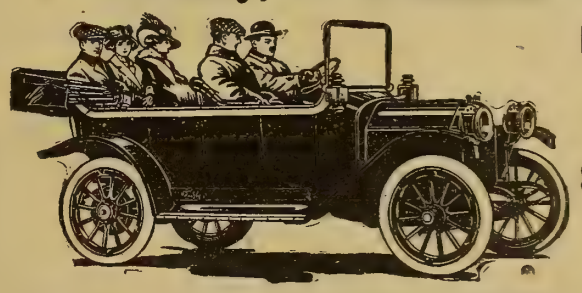

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$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

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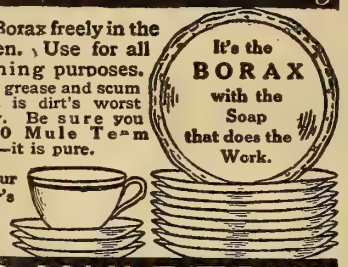

20 MULE TEAM

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light the more for the reason of the darkness. The battles of adversity cannot forever last, and the sting of God's antiseptic gospel only prepares the way and gives spirituality a chance to heal us. Yes, and after the healing balm of his promise comes to us we praise and thank God that he came to us, even with stinging words.

As has been remarked before there are questions that will not down, questions that like annuals in a garden may be depended upon to put in an appearance every season. Such is the question of the family pocketbook which will receive attention today from "Mr. Stewart Leon" and our friend "Mrs. Arthur." "Mr. Stewart Leon" is accorded the privilege of first speech:

Cousin Clara makes an urgent call for the men to come to the front and discuss the momentous question suggested by her. It certainly is a question that strikes home to every thinking man; yes, and every thinking woman also. If the beginning is right there never will be a time when a partner must ask for a paltry sum which in her judgment she or the household needs. It is not the asking, as I understand it, but the reluctance in granting the request and the often repeated question, "What do you want of money, and where is that nickel I gave you last spring" that humiliates and hurts. Certainly the beginning has much to do with the success or failure of this life partnership. To bear me out in this statement I wish to cite a case known to me, in which the man and woman were both over thirty years old when they were married. Old enough, you may say, to have their habits so fixed that another opinion would not be listened to nor heeded. But with most people to will to do anything helps them to do it, so with this couple. They began life on a small farm, each knowing and understanding their financial situation, and willing to work together for the success of their undertaking. They had no "my money," "my farm," "my stock," "my chickens," etc., but everything was "ours." Each considered the judgment of the other at par, and if it was necessary to spend money for anything, it went; that is, if they had it. Like many with a small beginning they studied economy, and neither of them was afraid to work, and now, as they are going down the other side of the slope, their minds are not filled with regrets and they have no cause to say, "The saddest of all it might have been." From this chapter in the life of these people I wish to draw my conclusion. If people would live single until their judgment is more fully developed there would be fewer mistakes in selecting a life companion. The man who for any reason does not consult his wife and get her opinion on all matters, treating her as a partner, has persuaded himself and shown others by his conduct that he has failed in selecting his wife and he ought to be man enough, if he thinks she is not able to help him, to make the best of the situation and make her an allowance or give her money in a way that will be least humiliating to her, instead of treating her worse than a hireling—only working for her clothes, and sometimes scanty at that, and board. Man, it is up to you to consider these things. What would your housekeeper do if you should be taken away? We can all see, with everything all blank as regards business—at the mercy of so-called law. Had you allowed her to use her judgment she might have shown that she possessed better management than even you. You know that by use all our facilities are strengthened and we are better prepared for life's battles. Like yourself she may have made mistakes, but did you give up, or did she berate you and thrust you into the background? I should say not. The answer to the question, "Who should have the money when the chickens are sold?" is it is "ours," not "his" or "hers," but "ours." Each one should have a firm grip on the purse strings and think of the comfort and happiness of each other instead of having all thoughts centered on self. Then they would live happy ever after, so far as the pocketbook is concerned.

It is delightful to have a man express himself so sanely and so fairly upon this vexed question. The women of our circle surely owe "Mr. Stewart Leon" a hearty vote of thanks. Men are coming to hold more correct views about the pocketbook than they did. If mothers of sons took pains to teach their boys as they should the next generation would see a millennium in this direction. Meantime we shall contribute our part to building up healthy sentiment by pegging away at it here Among Ourselves. "Mrs. Arthur," who is to follow "Mr. Leon," brings to the question the beautiful optimism of a wife who is happy in the love of a good husband and who finds it difficult to realize that there are husbands of a far different kind:

The subject, "How to Make a Stingy Husband Shell Out," is doubtless one of absorbing interest to those poor, misguided women who married for revenue only. Where love is, there is never any wrangling over money matters or anything else. Nevertheless, Cousin Clara's doleful wail set me thinking what I should do under similar circumstances. If "the only man in the world" were to develop a stingy streak, and I was quite sure that he had money to burn, I should certainly find a way to "reach" him and, having reached him, I'd just twine my arms around his neck so tightly that he couldn't get away if he tried, and I'd murmur, softly, sweetly, like the sighing of a June breeze through a rose garden, "I know you haven't thought of it, dearest, but really I need a nickel the worst way." And then I'd catch my breath at the promptness with which he would empty his pocketbook into my lap, at the same time exclaiming, "How could I have been so thoughtless! Why didn't you speak of it before, sweetheart?" Now, my poor abused sister, next time you feel like turning loose and nagging that long-suffering husband of yours, suppose you try my way, just for a change, and see if results are not much more satisfactory. I must tell you a little about our "Rest Club." Did I say that I did not believe in clubs? Well, for my own part I do not care particularly for it, but it has proved a blessing indeed to certain women of the neighborhood. We meet every two weeks on Saturday afternoon at the homes of different members. Children and gossip are strictly forbidden and work is never mentioned, the object being to give a pleasant and restful time to those who attend. We sit around in our best clothes and drink tea and listen to music and reading. One woman purchased 100 one-cent reproductions of the world's greatest paintings and her guests enjoyed looking at and discussing them. "This is the happiest day I have had for a long time," said a sad-faced woman at our first meeting. "It is the first time in fourteen years that I have been away from my children for a whole afternoon." "You may come to my house next," said another woman, who was a very untidy housekeeper. "I'll begin to clean up this very night," she added parenthetically. Accordingly, two weeks later we found her home bright and shining, and it is so to this day; and the discouraged young mother is roused out of her apathy. So we feel that our little club, although not especially educational nor progressive, is nevertheless doing good work.

That "Rest Club" is certainly doing good work as a well-planned club generally does. The club season draws to a close, I wish we might have other reports. Come, sister club women, "speak out and 'spress yourselves," as Mirandy puts it. If this has been your first season tell us how you organized and what you took up and something of what you have accomplished. And if you've a year or two or three to your credit let us hear what you have done to justify your existence.

In some homes the winter meat supply proved too generous for winter needs and the housewife will be happy to learn how to keep the surplus for summer time. "Mrs. Successful Canner" has the floor:

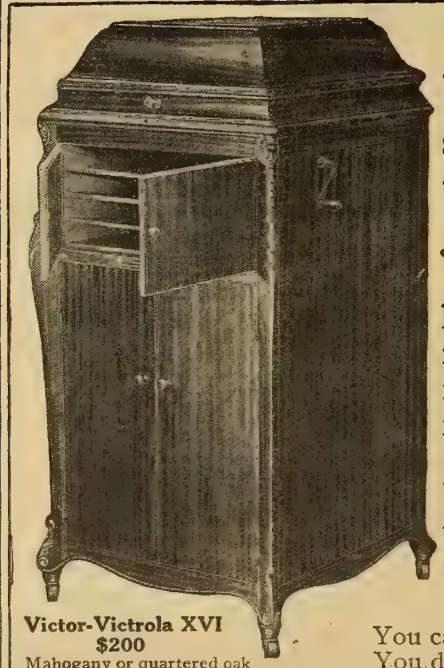
When I tell you that I have found how the farmer may have fresh beef any day on the farm through the hottest weather, without ice, you will doubtless say, "Incredible!" Yet it can be done. Just now farmers are killing their own beeves or buying quarters and halves, and just now is the time for the busy housewife to lay in her supply for summer—via the "fruit jar route." Bring in some of that beef and cut it from the bone in pieces perhaps two or three inches square—just a nice size for the plate. Put the pieces into some of those empty fruit jars until they come within one inch of the top of the jars. Add a tablespoonful of salt and a little pepper, if you wish it. Put on the rubber and lid, but do not screw up tightly. Then put a thick pad of cloth in the bottom of the wash boiler, also wrap each jar, and set them carefully in the boiler. Pour cold water into the boiler until it comes about two inches below the rubbers on the jars. Now boil steadily for four hours, refilling with hot water as the water boils away. Remove from the fire and tighten the lids. Be sure to turn each jar upside down to see whether it leaks, as this is very important. When the meat is cold dip the tops in melted paraffine and remove to the cellar.

Even if one has no surplus meat "Mrs. Successful Canner's" coming should be of interest if there are animals on the place yet to butcher or fowl whose days of usefulness are over. Speaking of canning I want much that we should go into it in all its phases this season, more thoroughly than we have ever done before.

LOW COLONIST FARES.

Via Chicago and North Western Ry.

One way second-class tickets on sale daily March 15th to April 15, 1913, to principal points in the West, including Helena, Butte, Nampa, Salt Lake City, Ogden, San Francisco, San Diego, Los Angeles, Portland, Tacoma and Seattle. Exceedingly low fares. Favorable stopover privileges. For particulars apply to ticket agents.—Adv.



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Victor-Victrola VI, $25
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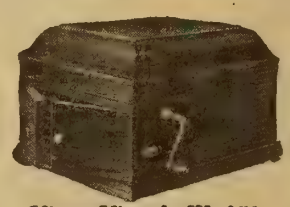

Victor-Victrola IX, $50
Mahogany or oak

Other styles $15, $40, $100, $150. Victors $10 to $100

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

ROLL OF HONOR.

Ayfa, Bertie-ha-ha, Blondy, Brown-eyed Marguerite, Brutus, Bunny, Christina, Detective, Fairy Love, Flora, Gladness, Happy Harry, Indian Lassie, Lefty, Little Beauty, Little Nell, Manna, Maude, Nebraska Farmer, Nursie, Ocke, Pocahontas, Poppy, Puss, Sandpiper, Sunday, Sunshine, Ted, Tricksy Bunny, Utokla, Verano, Wiggly Will, Zelah, Zephyr Vose.

These young people sent good literary work, written on but one side, and signed in full.

The following do not get credit on the roll: Daddy's Girl, Crimson, Peach Blossom, Mountain Lion, Housekeeper, Inez Mae and Helen Kirkhuff.

Arkansas Girl, Fairy Love and Goldie Lock win pansy badges for three times on the Roll of Honor, and Atlantica won a silver badge for three times on the Roll of Honor after getting the pansy badge.

The names of the following pansy badge winners were omitted from the February 13th issue: Bernette, Cherry Blossom, Dakota Kid, Little Fairy and Wee Wifie.

Atlantica, will you send us your photo for publication?

On account of a fire our department got a little mixed and a set of puzzles designed for publication were "dis-lo-cated," so they did not get in, while the answers did. Please excuse us. We give you a few puzzles today instead, and hope they will please you.

SPRING IS COMING.

Spring is now coming! Spring soon will be here.
To our dull hearts she is the most dear.
Many fair flowers she gaily will bring;
At her light step the green grasses spring.

Leaves will come out from the buds on the trees.
Spring's call came ringing far out on the leas.
Hail her! oh, hail our sweet, beauteous spring!
Come, young and old; come her praises to sing!

First comes old March, all blust'ring and bold;
He soon rules over the frost and the cold;
Comes like a lion, goes out like a lamb.
Thinking of sport, very happy I am.

Then comes the month we surely do love;
Sunshine and tears, both are sent from above.
April, sweet April! bring on your showers;
Deck all the meadows and gardens with flowers.

Next comes dear May, so fair, full of life,
Ready to win or to die in the strife.
We all love May, and not without reason;
With her dies the spring; then comes the next season.

Hail her! oh, hail our sweet, beauteous spring!
Come, young and old; come, her praises to sing!

—Ted, Wisconsin.

SAME STORY EVERYWHERE.

I wonder if any of our cousins know of a good way to get the boys to come out to Epworth League and the other devotional meetings of the young folks of the church. We have a fine league in our town, but the girls are the only ones that come.—Flora.

Stories About the Browns.

1. The Grizzly Bear.

There was once a woman named Mrs. Brown. She had four children, named Florence, Thomas, Belle and William. Their father was dead and their mother had to wash for a living. They lived in a house with the windows broken, and the doors half off their hinges.

Florence and Thomas had to carry wood from the river, which was quite a ways from the house. One day when they were gathering wood, a great grizzly bear came upon them. They ran to the nearest house and called for help. The men came out and killed the bear. After that when they went after wood, one would keep watch while the other gathered an armful of wood.—Nebraska Farmer.

Note.—Aunt Mary would like her younger boys and girls to write other stories about the Browns. Just send one apiece, not over 200 words long. No one over twelve years need try this. Write on one side of your paper, neatly, and sign your pen name and age; then at the very bottom of the last page write your real name and address. We'll give you just two weeks to write your story and send it in to Aunt Mary. A pretty prize for the best story about the Browns.

The Rabbit's Misfortune.

One summer morning before the sun was up, Mrs. Rabbit told her children goodbye and started off in search of something to eat for them. They cried after her to bring them some nice cabbage and lettuce leaves. She was very light hearted as she ran through the open timber, and the sun was just peeping over the distant hills as she came to Farmer Brown's garden. She crept through the fence and began nibbling off the fresh green leaves of Mrs. Brown's early cabbage. In a few minutes "Bang!" went the report of the farmer's rifle.

Oh, how her foot hurt. The bullet had struck her. She limped away as fast as she could, and just in time, for the farmer was going to fire again. She reached the timber as quick as she could with her foot hurting so bad. There was nothing for her to do but go back to her little ones. So she kept going.

When she reached the old rail fence

Don't get caught with leaky roofs when the spring thaws come

Remember the roof on your house, barn or other buildings that leaked a few drops last fall—a little investigation *now* may mean a *big saving* when you put on a new roof or replace an old one.

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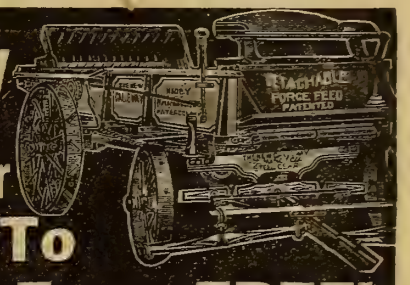
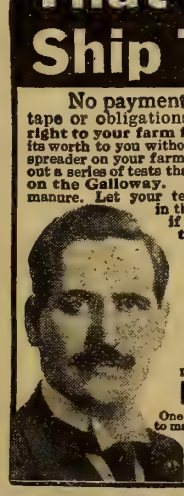
Many Other Uses and Full Directions on Large Sifter Can—10c.

Old Dutch Cleanser

Here's My New 1913 Model Galloway Spreader That I Want To Ship To Your Farm FREE!



No payment down—no bank deposit—no lease, notes or mortgages—no red tape or obligations of any kind whatever. I'll ship you this new, 1913 Model Galloway **right to your farm for 30 or even 90 days trial absolutely free.** I'm going to make this spreader prove its worth to you without a word of argument on my part whatever. Here's the way I'll do it: I'll put the spreader on your farm for a 30 to 90 days trial **absolutely free.** I'll put it right straight up to you. Figure out a series of tests that would make scrap iron and kindling out of any other spreader made—**then try them on the Galloway.** Load it up as full as she'll hold with the toughest, tramped down or frozen slough hay manure. Let your team trot and slam it in gear! Do you think that there is one other manufacturer in the world that would dare to hint at such a test as that? You know there isn't! But if you can think of a severer test, go ahead. **I'll take all the risk and let you be the sole judge.** If you think you can possibly get along without the Galloway after you have had the free trial, just send it back to me. I'll pay the freight both ways—you won't be out one cent. If you want to keep it, I'll guarantee to save you $25 to $50.



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Century Manufacturing Co., Dept. 186 East St. Louis, Illinois, or Dept. 186 132 N. Wabash Avenue, Chicago.

under which she and the little rabbits lived, she saw a strange sight, for there was Mr. Brown's little girl feeding her children some table scraps. She had seen her papa shoot the poor rabbit and felt so sorry for the baby rabbits that she thought she would go feed them.

At first Mrs. Rabbit was afraid of the little girl, but she soon came up and ate from her hand. The child soon went home, after promising to come again tomorrow and feed them. She said that she wouldn't let her papa shoot another rabbit.—Gladness, age 14.

PUZZLES FOR MARCH MYSTICS.

1. Beheadment.

He drew off her WHOLE, and on her fair hand
Placed a token of FIRST, a plain golden band.

—Poppy, age 8.

2. Transposed Vegetables.

Better sew up that SEAM, OTTO, before the MINK PUP gets to playing with it or you will have to cry "EEL" or give him some CRUMB CUES. If one RAPS PINS into a rip, it will be a FAILURE COWL, and a pin is A PEST, TOO. One is liable to RUN IT pretty near into his SHIN CAP and leave a ROT SCAR there.

Detective, Iowa.

3. Drop Letter Publications.

(Some of the papers we take.)

One W-s-o-s-n F-r-e- raises tobacco; that is something not needed in a W-m-n'- W-r-d. The A-e-i-a- W-m-n can put in a great many H-p-y H-u-s at her N-e-l-c-a-t, or fancy work, as she calls it. We read D-i-y N-w- about prize fighters, millionaires and suffragettes, but the F-r- W-r-d doesn't get much attention.

—Maude, Minnesota.

4. Behead and Curtail.

1. He stuck an old * * * * * into the ground, and trained the * * * vine up on it. 2. We have a pig that will munch * * * * * and wiggle his left * * * at the same time. 3. Guy used a narrow * * * * * as an * * * after losing one. 4. The * * * * * sneaked into the kitchen and stole a nice mince * * *. 5. I was * * * * * * frightened to pieces when I learned that our visitor was an English * * * *. 6. Sam put on his old * * * * * and started with the * * * for the garden. 7. The * * * * * * are thick up in our cemetery; old man Peck says there is a * * * * of 'em.

—Ayfa, age 12.

5. Central Syncopations.

(Take out the middle letter.)

My old o o o o o has a white nose and white o o o o, so we call her "White Stockings." As long as Joe o o o o o, he will tell o o o o, I suppose. Although Polly looks fat, she says she o o o o o for some o o o o like mother used to bake. They are o o o o o to ring the o o o o when dinner is ready. That o o o o o looking gentleman is a o o o o prince, they say. My o o o o o o boy is a o o o o o o little chap; just watch him climb that tree! I would go to the o o o o o for my vacation, but it would o o o o too much. In fighting, o o o o o some one of about your own o o o o. Do not o o o o o mother out of a o o o o with her old friend by playing the piano all the time. Pearl makes a great o o o o o because her o o o o is broken.

—Beverly, age 15.

Answers given next week.

Prizes.—Five prizes for the first five absolutely perfect sets of answers.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER. LESSON XI GEN. XII., 1-13. March 16, 1913

THE TEST OF ABRAHAM'S FAITH —THE STORY.

High Bridge, Kentucky, was tested when completed. Twenty platform-cars, loaded to the maximum of their capacity with steel rails, pushed and drawn by five locomotives, formed the trial train. First they crossed the bridge at full head of speed; then backed slowly. Next they dashed forward, suddenly reversing the engines and clapping on the brakes, so as to throw the whole ponderous weight dead upon the central span. Every atom felt the strain, but the bridge stood the fearful test; and thousands of intensely interested spectators broke forth in applause. Hundreds of thousands of travelers have since crossed that fearful gulf with perfect equanimity because the bridge was once so thoroughly tested, and endured the ordeal. Like a clap of thunder in a clear sky to Abraham came the inexplicable and remorseless command, "Take thy son, and offer him for a burnt offering." The bridge of the patriarch's faith was to be tested by the dead drop upon it of an indescribable weight. The second verse records the command, the third the obedience. There is no mention of the Gethsemane between. The battle was fought, victory achieved, deed done, when morning broke. The preparations were made expeditiously, but with such care that nothing was forgotten. The journey consumed three days. The exact site of the sacrifice cannot be determined. It is comparatively unimportant. It was in the neighborhood of the sacred place where "a greater Father afterward offered a greater Son." So Isaac went up the mount, carrying the wood that was to consume him, as the "greater Son" afterward carried his cross up the Via Dolorosa. Keener than the knife which Abraham carried was the innocent query of his unsuspecting son, "Where is the lamb?" May not the father's answer be tinged with the hope of a substitute when he replied, "God will provide?" Abraham had built many altars before, but never one like this and with emotions such as now surged in his heart. The innocent, silent submission of Isaac made him a speaking type of the Lamb who 2,000 years later was to be led to the slaughter in this very vicinity. As far as Abraham was concerned, the offering was made, the deed done. In mercy God stayed the literal sacrifice. It was the "spirit" he wanted, not the "letter." The letter killeth, but the spirit maketh alive. Out of heaven itself descended upon the patriarch the Divine blessing as he stood beside the altar blazing with a victim that the Lord himself had provided. The bridge of Abraham's faith had stood the fearful shock. Its thoroughgoing soundness was demonstrated for all time by such an ordeal as no human heart has ever been subjected to before nor since. Paternal instinct and affection, family ambition, fond hopes, and all that were as small dust when faith and obedience were put into the other scale. Abraham could not see how the glowing promises were to be fulfilled if Isaac were slain. But, then, he was not walking by sight, but by faith. The severest test of faith also witnessed its sublimest victory.

The Teacher's Lantern.

The superlative strength of Abraham's faith would never have been fully revealed to himself, to angels, or to men, had it been subjected to any less crucial test than this. For Abraham everything centered in Isaac. He had waited some thirty years for his birth, and had enjoyed his sweet companionship for twenty-five years. To calmly, quickly, obediently, believingly lay him on God's altar as a whole burnt offering argued the sublimest faith of all the ages. A revelation to Abraham himself—this certainly was. He was not aware until then of the tenacity of his own trust. His ability to bear the brunt of such an unexpected and awful deprivation disclosed it to him. Though the son of promise should be taken, his faith flamed up in triumph. He believed God would restore him or fulfil the promise by other means. A spectacle to angels this scene undoubtedly was. As two of them witnessed Abraham's joy at the annunciation of the near advent of his son, so a cloud of them may have witnessed his unhesitating renunciation of that son at the call of God. From the gallery of the sky they looked down upon the arena of earth, and saw the patriarch act well his part. The exemplary power of this tragic sight upon humanity at large, as well as upon Hebrews in particular, who shall ever measure it? This thrilling and scenic, but unstudied paragraph—every soul of man has been the better for the reading of it. What parents have been nerved by it to give back to God the children he called for! Our afflictions seem light, and but for a moment, when compared with Abraham's. That he endured heartens us to believe we can too. An acted parable the scene is evidently intended to be. That it is so educative is sufficient justification of it. It pictures with inimitable fidelity the anguish of the Infinite Father as he gives his Son to be the Substitute in penalty for a lost world. It portrays the ineffable grace, patience, meekness, obedience of the incarnate Son of God. Abraham, Isaac, and the altar stand for the Atonement itself—help us to understand, appreciate and believe it.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6057 Girl's Suit.—In this design we have a pretty suit for the small girl. The coat is made in box fashion and the skirt is a three-gored design. The suit is quite easy to make and may be fashioned of serge, tweed or homespun.

The pattern, No. 6057, is cut in sizes 6 to 12 years. Medium size requires 3¾ yards of 36-inch material and ⅝ of a yard of black velvet for the collar. Price of pattern, ten cents.

6067 Lady's Dress.—A delightful frock is here pictured, and one quite easy to make. It has the fashionable and convenient front closing and may be made with either the empire or regulation waist line. The skirt is cut in four gores and can be made with inserted plait or habit back.

The pattern, No. 6067, is cut in sizes 34 to 42 inches bust measure. Medium size requires 6 yards of 36-inch material and ⅝ of a yard of 22-inch all-over. Price of pattern, ten cents.

5981 Lady's Three-Gored Skirt.—This skirt is a fashionable three-gored model made with double flounce and is particularly suitable for costume development. It has excellent lines and is perfect fitting over the hips. Serge, chevIot or broadcloth can be used to make this skirt.

The pattern, No. 5981, is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅜ yards of 36-inch material. Price of pattern, ten cents.

6065 Child's Dress.—This dress has the fastening at the side of the front and has a dainty two-piece skirt. The neck is collarless and the sleeves may be long or short. The cuffs and belt are fashioned of contrasting material, which gives the frock a pleasing trimming touch.

The pattern, No. 6065, is cut in sizes 4 to 10 years. Medium size requires 2⅝ yards of 36-inch material and ⅝ of a yard of 27-inch contrasting material. Price of pattern, ten cents.

6071 Lady's Blouse.—This waist is one of the newest models in shirt waists and has the latest style dropped armholes. It may be made with or without the center box plait and the neck is finished with a turn-down collar. The sleeves have novel cuffs and the general appearance of the blouse is chic and stylish.

The pattern, No. 6071, is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¼ yards of 36-inch material. Price of pattern, ten cents.

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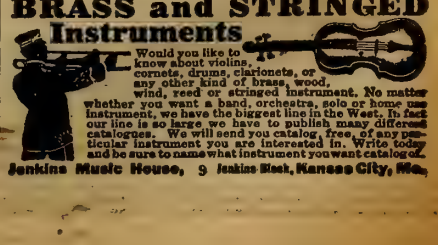

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Agriculture in High School.

By W. E. Larson, Wisconsin.

AGRICULTURE will in the future be taught in high schools and county schools of agriculture. They are really different in character, and when the county schools of agriculture shall become more fully developed, the two will have somewhat different functions. The high school is a general school for the training of all the children in the community. It is a school especially adapted for the young people between the ages of fourteen and eighteen years. The county schools of agriculture, on the other hand, when they shall have become more permanently established, will be strictly vocational schools to which young people will go who have reached the age of seventeen, eighteen, nineteen or more years. In other words, the county schools of agriculture will ultimately be schools to which the young people will go who have decided to make agriculture a vocation and who desire to have some specialized instruction therein.

High schools located in the country communities should have agriculture in their courses. The primary purpose for this work in the country high school is that instruction should always be related to the environment. Every good teacher tries to relate the subject studied to the life of the student. The environment must come into the subject under discussion. This is especially true of school work that has science for its foundation. To teach science without relating it to the environment is a waste of time, especially in the secondary schools.

There is, however, a limit to the amount of agriculture that should be taught in the high school. In the first place, the pupils are not sufficiently mature to take up the subjects that more properly come in a later period. In the second place, there are other subjects which are just as important as agriculture during this period of the student's development. Country people should not simply be good farmers. They should be men and women of culture and broad sympathies. History, literature, music, etc., should enter into the school curriculum. The country needs a country high school which is, in fact, a continuation of the elementary school.

In my estimation it is not wise to introduce into the high school course of study things that are too technical either in agriculture or any other subject. The school should always aim to get the pupil interested in his home life, and, therefore, high schools should continually keep before its young people some study that will show the wonderful possibilities in agricultural vocations. Yet it should not make the mistake of going to the other extreme and introduce into its courses material that is adapted to college work. This work should be left for the special school. The high school should acquaint the student with all the simple operations on the farm based upon scientific knowledge, such as the testing of milk, the judging of grains, corn, etc., and such other operations as can be profitably studied at this period of the student's school life.

The county school of agriculture is a school on a larger scale, and it should be largely vocational. When a student enters a county school he leaves home and for this reason he ought to be at least seventeen or eighteen years of age. He has now decided that farming is to be his vocation, and he enters upon the school work with the idea of learning as much about this vocation as possible. In other words, the county agricultural school is a trade school. In these county schools we shall expect to find teachers who have specialized more extensively in the agricultural work. The development of the agricultural interests of the county is their special function.

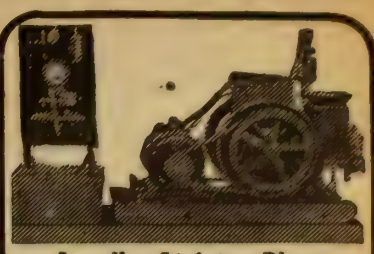
There should exist a vital relation between the high school and the county agricultural school. The principal and other members of the faculty of the agricultural school should keep in close touch with the principals of the high schools located in the country communities of the county. Many questions will come up in the average high school which the high school principal will have difficulty to solve. The agricultural schools will have a much more extensive equipment than we shall expect to find in the high school.

The county agricultural school should be an institution to which the farmers of that community can turn for help. To be sure some help may be obtained from the local high school, but we can hardly expect the high school to be able to give this information in all the different cases. The agricultural school will to a great extent take the place of the university in the community. As the agricultural interests are developed it will be impossible for the university to handle all the work, which comes from the growing demands, and much of this work can profitably be delegated to the local agricultural school. These agricultural schools will be in close touch with the university, and in that way can become distributing agencies for the agricultural information that is especially adapted to their own localities. The agricultural schools should take over a great deal of the work that is now done in the short course.

In conclusion I will say that I believe the county agricultural schools are yet in a transitional stage. In many cases they have been compelled to admit students that are not prepared to take the work. The time will come when most of those who enter county agricultural schools will be high school graduates. All persons should have had at least a considerable portion of a high school course. On the other hand, while the agricultural schools should try in every way to serve the communities in which they are located, it would be a serious mistake to try to make them colleges at the present time. The principals must take the young people that they do get and plan courses according to the preparation these people have had. In the course of time the entrance requirements may be raised and the work may be more specialized. At the present time the teaching must be strongly academic and the schools should not neglect the common branches. As these schools are vocational schools they should aim to be intensely practical. The teachers who are selected for these schools should be men and women who know farm life as it is and can give the students such instructions as will bear immediate results. The high schools and the county agricultural schools should try in every way to build up the high schools in the county and try to have these high schools do such work as will keep the young people interested in farm life and farm occupations. On the other hand, the high school should encourage its young people to go to the agricultural schools after graduation. The high school should aim to have a course of study that will interest the young people in farm life and thus lay a foundation for agricultural pursuits.

"Iowa farmers should look out for adulterated seed this spring," said Prof. L. H. Pammel, chief in botany of the Iowa Agricultural Experiment Station. "We recently analyzed some sweet clover seed sent in by an Iowa farmer, and found that about 89 per cent of the sample was alfalfa and weed seeds. Many bad weeds are brought into Iowa each year in agricultural seeds. Chicory, wild carrot, buckhorn, Canadian thistle, dodder and quack grass have been introduced into many clover meadows. The experiment station stands ready to examine free of charge samples of clover, sweet clover, and grass and garden seeds for purity and vitality."

There is an opportunity for creating a market for American apples in France, according to Consul John Ball, of Havre. While the wholesale dealers in that city state that the French people do not consume nearly as many apples as the American, the demand appears to be fairly good "and is certainly increasing steadily."



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Send me your hide and let me make you a handsome, durable coat or robe. My numbering system makes exchange of hides impossible.

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Big Doll For You

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D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

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When writing to advertisers please mention The Homestead.

Union Stock Yards, Chicago, Ill., March 7th.—The live stock grower appears to have become the supreme arbiter of prices for that commodity after a long period when occasions on which the packer was forced to submit to dictation were rare. Evidence has been furnished in every department of the trade within recent months that when stock yard prices are not in accordance with the growers' ideas of values he merely locks up his cattle, hogs or sheep and awaits favorable market action. Commission men are no longer forced to make frantic appeals to feeders to suspend loading operations to permit demoralized markets to recuperate; the feeder invariably takes the initiative. A 5-cent break in hogs prompts free use of padlocks and the available supply of cattle and sheep is in the strongest hands the trade has ever known at this season. Prices are gradually ascending, although the present level of live stock values wears a prohibitive appearance when the overtaxed consumer is reckoned with. However, for the latter there exists scant prospect for relief within the near future.

The past week has seen another light supply of live stock at the leading market centers and higher prices for everything vended at the yards is explained by the deficiency. The week's local supply will show a decrease of about 10,000 cattle, 6,000 calves, 45,000 hogs and 27,000 sheep from the corresponding week last year, and for the year to date six leading western markets disclose an aggregate shrinkage in supply of 77,000 cattle, 995,000 hogs and 245,000 sheep in round numbers.

In the beef steer trade, commercially finished bullocks sold up to $9.30 here this week, the showing of $9 cattle became conspicuous and a spread of from $8 to $9 gathered in the bulk. Fat cows and heifers scored price gains ranging from 25 to 40 cents and reached the highest levels for the classes now forming the bulk of the supply in trade history. For thin cattle of a decent class to restock depleted stock farms or fill feed lots, last week's decline was easily restored and more feeders reached $8 and better than at any preceding time in history, only plain and medium thin stockers failing to show as high or a higher level than prevailed at the high time two weeks ago. Hogs today missed touching the predicted 9-cent mark by a hair's breadth, $8.97½ being paid for lights and $9 refused for a special sort of 150-pound averages which were as scarce as "hens' teeth" and for which eastern order buyers were clamorous. Sheep and lambs close the week on the crest of a 25 to 50-cent advance over a week ago, with matured muttons selling higher than at any previous time this winter, or since last May, and best lambs reaching a $9 to $9.15 basis.

There is logical reason to expect some temporary reaction from this week's advance in all departments of the trade, as the prices can hardly fail to attract a larger marketward movement and as consumptive demand for meat will no doubt show some contraction resulting from Holy Week fasting. Holy Week this year ends March 22d and only moderate receipts will be needed next week, as retailers have learned from experience not to stock up heavily for this period of slack consumptive demand, but the trade is now on a considerably higher basis on everything than at the opening of the Lenten season and that the trend of prices will be upward during the greater part of the next thirty-day period is generally believed. In the cattle trade current scarcity is expected to continue at least that much longer, after which enough southern grass stuff will probably be showing up at Kansas City and St. Louis to furnish a measure of relief. Having practically reached the 9-cent mark, hogs are expected to soon eclipse that figure. This week's short porcine supply destroys the illusion that growers have been holding hogs back for an 8-cent market in the country. Colorado holds the key to the lamb market situation and will continue in that position until its crop is marketed. No considerable supply of lambs can be expected until after Colorado has cleaned up and Kentucky's and Tennessee's new crop is ready for loading. Sheep will continue scarce until Texas relieves the situation with a run of grass muttons, probably the latter part of next month.

BEEF STEERS.

Fat, handy-weight steers are enjoying the best demand, but quality rather than weight is becoming more of a factor, as the supply of heavy beeves is not large enough to prove particularly burdensome. Plain and medium steers have lost part of a 25-cent advance scored during the first half of the current week, but are still 10 to 15 cents higher than a week ago. Well-fattened steers of all weights are about 25 cents higher for the week. Killers have exhibited by their actions that beef stocks are small and distribution on a hand-to-mouth basis. During the week the short bulk of the beef steer supply has sold at $8.25 to $8.85, and a $9.30 top was made. Cattle from $8.25 down are decidedly plain as to beef quality, but $8.75 has to display quality. Preference is for fat 1,100 to 1,250-pound bullocks, and there is little danger of an oversupply of fat stuff of those weights, although the market could be easily overstocked with heavy cattle, but that any considerable number of cattle of any class is pressing on the market is improbable. Quotations:

Prime steers, 1,350-1,700 lbs	$9.00@9.30
Choice steers, 1,250-1,500 lbs.	8.85@9.25
Choice steers, 1,100-1,240 lbs.	8.75@9.00
Good to prime yearlings	8.40@8.85
Medium to good yearlings	8.00@8.40
Common to fair yearlings	7.25@7.90
Good steers, 1,100-1,400 lbs	8.20@8.60
Good steers, 900-1,200 lbs	8.00@8.60
Fair steers, 900-1,200 lbs	7.65@7.90
Medium steers, 850-950 lbs	7.40@7.50
Inferior steers, 850-950 lbs	7.00@7.35
Common steers, 800-850 lbs	6.75@7.00

STOCKERS AND FEEDERS.

Thin cattle that go back to the country as a basis of future supplies continue to command figures that emphasize very clearly the actual shortage existing. Buyers are scouring the corn belt for well-bred stock cows and bulls to ship to the breeding grounds of the West and Southwest and for the first time in the history of the business money does not talk loud enough to effect same sales. During the first half of this week the market easily recovered the decline of the week previous on feeder and good stock steers, in fact, there was more business in feeders at $8 to $8.25, the latter representing the top, than ever before, but 10-cent declines are shown at week-end from the mid-week high spot. Still good qualified stock and feeding steers of all weights are as high as at the high time two weeks ago, while thin plain and medium stockers are within 10 to 15 cents of the record prices then noted. There is scant prospect of prices falling much below current high levels, as with the coming of the grazing season demand promises to become more avid than ever. Only plain light stock steers are selling below $7 and fancy steer yearlings are selling as high as $8, while close to fifty car loads of choice 850 to 1,100-pound feeders have left Chicago this week costing their purchasers $8 to $8.25. Good feeding heifers are bringing $6.25 to $6.50, and the class of stock heifers selling under $6 or stock cows below $5.50 is unattractive, to say the least. Quotations:

FEEDERS.

Selected, 900-1,150 lbs	$7.90@8.25
Fair to good	7.50@7.85
Common to fair	6.75@7.40
Feeding heifers, com. to good	5.75@6.50

STOCKERS.

Selected, 500-700 lbs	$7.50@7.90
Fair to good	7.00@7.40
Common to fair	6.00@6.85
Stock heifers, com. to good	5.40@6.15

BUTCHER CATTLE.

A better market for butcher cows and heifers was never experienced than has been that of the past week. Supply has been light and the market advanced sharply during the first half of the week, fat cows gaining 25 to 35 cents and some good heifers selling 50 cents higher. Since Wednesday the tone of the trade has been less gay, but the advance has been held. Choice to prime heavy cows are selling up to $6.85 to $7.75 and good to choice fat handy heifers are selling like hot cakes at $7.25 to $8, while some prime heifers have reached $8.25 and a fancy class of baby beef heifers would not fall short of $8.50. Medium to good killing cows are selling at $5.50 to $6.50, heifers under $6.25 have absolutely no claim to decent killing quality and canner and cutter cows are making $4 to $5, largely only shelly canners going at $4 or lower. Beef bulls are 15 to 25 cents higher for the week and bolognas 10 to 15 cents higher, the latter selling up to the highest levels touched this season. Calf receipts disappointed buyers this week, falling over 6,000 short of the run the same week last year, and prices for vealers advanced 25 to 50 cents, while heavy calves closed strong. Quotations:

BEEF COWS.

Choice to prime fed cows	$6.85@7.75
Good to choice cows	6.15@6.85
Fair to good cows	5.65@6.15
Common to fair butcher cows	5.10@5.65

CANNERS AND CUTTERS.

Good to ch. heavy cutters	$4.75@5.00
Fair to good light cutters	4.50@4.75
Fair to good canners	4.25@4.45
Poor to fair canners	4.00@4.25
Old, thin, weak shells	3.25@3.75

HEIFERS.

Choice to prime heifers	$7.65@8.50
Good to choice fed heifers	7.15@7.65
Fair to good heifers	6.50@7.15
Common to fair heifers	5.00@6.40

BULLS.

Good to choice bolognas	$6.15@6.35
Light and medium bolognas	5.85@6.10
Canner and poor light	4.75@5.65
Good to choice butchers	6.50@6.85
Good to fancy beef	6.85@7.40

VEAL CALVES.

Good to choice vealers	$10 50@11.00
Fair to good light vealers	9.50@10.25
Strong weight vealers	7.50@ 9.00
Good to choice stock calves	7.00@ 7.65
Inferior to fair hvy. calves	4.50@ 6.00

HOGS.

Seventy-five thousand fewer hogs at eleven markets this week than last, 146,000 less at the same eleven points than a year ago this week, an eastern shipping demand at Chicago that has absorbed more than one-third of the local supply, and an advance in speculative futures in provisions amounting to more than $1 a barrel on pork and about ¾ cent a pound on lard and ribs from the low point last month, to the highest prices of the season, answer the query for reasons for the soaring hog market. Today's hog prices were the highest for the week or since October 21st last. Prime 153 to 178-pound hogs sold up to $8.97 and the bulk of the supply made $8.70 to $8.85, prices showing advances of 30 cents generally over a week ago, while the top was 37½ cents higher. Packers are resorting to heroic measures to prevent a runaway hog market, and shippers are making the market. The hog supply shrinkage for the year to date at eleven markets is nearly 1,000,000 head. Today's quotations follow:

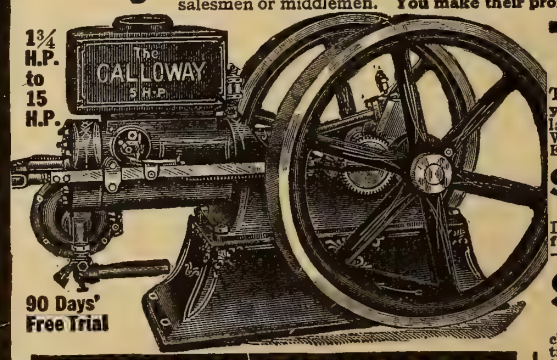
Bulk of sales	$8.70@8.85
Mixed, 215-250 lbs	8.60@8.75
Mixed, 170-200 lbs	8.70@8.85
Medium weights	8.70@8.80
Light butchers	8.75@8.85
Heavy butchers	8.70@8.80
Light shipping	8.85@8.97½
Heavy shipping	8.65@8.80
Heavy packing	8.45@8.60
Rough heavy packing	8.30@8.45
Throwout packing sows	7.90@8.30
Fair to choice light	8.70@8.90
Light-light, 125-165 lbs	8.55@8.85
Pigs, good to fancy	7.85@8.65
Pigs, inferior to fair	6.85@7.70
Boars, poor to good	3.75@4.75
Stags, subject to dockage	8.65@9.00
Government throwouts	5.25@7.00
Government pigs	2.50@4.50

Take My New Engine —Use It 90 Days FREE!

Take one of the wonderful new 1913 Model Galloway Gasoline Engines —use it right on your own farm for one month, two months or three months **absolutely free.** Write at once for my 1913 catalog—pick out the size and style engine you want me to ship you on this free offer—I'll ship it **immediately** Put it to work on your farm the day you get it. Keep it working every day. Watch it carefully. Compare it with any and every engine on the market that you can get a line on *no matter what the price.* If anybody else is trying to sell you an engine, tell them to make you the same offer that Galloway does. Tell them Galloway is willing to put his engine right side by side on your farm with any other engine in the world *and let you be the judge.* Tell them you don t want any engine salesman trying to influence your judgment—you're buying *engines* not *conversation.* Don't listen to a man who isn't willing to let you judge his engine on its merits. The man who is afraid to meet me on that kind of a proposition *is no man for you to do business with.* Keep my engine a whole month or even two months or three months if you want to. Then if you believe that there is a better engine than the Galloway anywhere in the world at any price, tell me so and I'll take it back and *I'll pay all the freight charges both ways, so that you won't be out one single cent for anything.* If you do decide to keep the Galloway, just tell me so and I'll give you the benefit of the biggest and most liberal engine offer ever made.

I'll Save You $50 to $300 Sure!

I'll make you an actual present of $50 to $300. I'll positively guarantee to save you at least that much in the first cost alone. I'll sell you a Galloway direct from my factory where it is made. **You pay me just what it costs to make it** plus one very small profit—**that's all!** There are no jobbers, wholesalers, retailers, salesmen or middlemen. **You make their profits yourself when you buy a Galloway.**



The Only Way Is the Galloway

That's the way to buy an engine, **and it's the only way that's absolutely fair to you,** and that's the only way that I'll sell an engine, because I won't keep a dollar of any man's money **unless he would rather have my engine than the cash.** When a man will tell me that—**then and not until then do I consider a sale as made.** Every single man who does business with me is absolutely protected by my

$5,000 Challenge—$25,000 Guarantee

I back every promise, every statement and every claim with $5,000 **in cash.** I protect every one of my customers by a $25,000 guarantee of **absolute satisfaction.** Understand, I don't say **reasonable satisfaction** but **ABSOLUTE satisfaction —AND YOUR WORD is always good with me.**

Special Service Bureau FREE

My force of high salaried Engine Experts are at your command absolutely without charge. They will tell you how to select exactly the engine which is best suited for your particular purposes; how to test and judge an engine; how to use one to best advantage; how to fit up a power house—besides answering fully and completely any question about the care and operation of an engine. This is absolutely free to you whether you buy a Galloway or not.

20,000 REASONS

Here are a few expressions from farmers now using Galloway Engines. Twenty thousand others have had exactly the same experiences. These are men just like yourself. **Before they bought a Galloway they were in exactly the same position as you are now.** You will say exactly the same as they do after you get your Galloway.

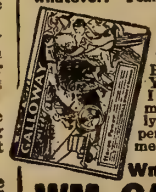
Alex. McLachlan, Argyle, Mich. I received my Galloway Engine last week and it is all right. Everybody says it is a dandy engine. **Some of my neighbors got bit on other engines** by paying $400 for a 9 h. p. and $460 for a 10 h. p. I like your engine dandy.

Fred Ruthardt, Mt. Vernen, S. D. I must say the engine is all right. **I saved about one hundred dollars in** buying from you. I don't want to be without the engine, not at all. I use it for shelling corn and grinding feed.

Frank Peck, Dorchester, Neb. My Galloway Gasoline Engine does lots of work for me. It shells corn, saws wood and grinds feed. I have no trouble with it. It is simple and easy to start. **My twelve-year-old boy starts it easily.**

Important! Get My 1913 Proposition

This year, I've got something better to offer than I ever had before. **I've got a plan by which you may get your Galloway Engine either wholly or partly free and, besides, without any soliciting or canvassing, whatever.** I can't explain it now, but I tell you all about it in a personal letter when you write me.



Engine Book FREE

Now, don't wait a minute. Get my Engine Book and my special 1913 offer right away. You won't be under any obligations at all—I just want you to fill out the coupon or mail me a postal or letter, that's absolutely all I ask. If you haven't got a pen or pencil handy, go and get one and write me right away.

Wm. Galloway, Pres.

WM. GALLOWAY CO.
105 Galloway Station, WATERLOO, IA.

Mail This Coupon

to Wm. Galloway, Pres., Wm. Galloway Co., 105 Galloway Sta., Waterloo, Iowa.

I want to get your Engine Book, on your 90 Day Trial Offer and full particulars of your special 1913 proposition all free.

Name .....

Town .....

R. F. D. ..... State .....

Big 144 Page Book of Furniture, Buggies, Harness, Implements, etc., goes to you FREE.

(155) *Engines Carried in Stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg.*

How about staying on top of the mud, instead of down in the mud, this coming year? Wide tire steel-wheel trucks will help to do this, and also help to make better roads for your community. Get in the game for good roads. Ask for our free catalogue of instructions.
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For all purposes. Direct from factory, freight prepaid.
Bargain Prices—13c per rod up
Get our new fence book before you buy fence for Horses, Cattle, Sheep, Hogs, Poultry, Etc.
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IDENTICAL THE SAME
FENCE for every place on your farm—direct to you from nearest point of delivery—at factory prices—freight prepaid. Endless rust-resisting stays, lithe hill-fitting special joint, every rod guaranteed. Send for money-saving catalog—don't buy till you do.
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CEMENT STAPLE POSTS
are frost, fire, water, wind and stock proof; everlasting and the only cement fence posts made in which you can
DRIVE STAPLES.
All posts guaranteed. Wt, 7-ft. posts, 50 lbs. Factories near you. Circulars free. Columbus Cement Post Sales Co., Westerville, O.

HINTS·SUGGESTIONS·DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A Useful Cabinet.

A cabinet like the one shown in the accompanying illustration may be made out of an ordinary dry goods box. The drawers should be constructed so that they will slide easily and the sliding process may be facilitated if a little grease is used where the drawers rest. The number of drawers will depend upon the size of the box and the purpose for which it is to be used. As indicated in the illustration, such a cabinet can be used for nails, washers, bolts, taps and small repairs.

Making a Post Sharpener.

This is a great convenience when posts are sharpened by one man, says Mr. Clement White, a Kansas subscriber. The frame holds the post in position and all the maker has to do is to wield the ax. The brace is a large post set solidly in the ground. It should be set in a leaning position. Nail pieces of planks on the end to make a receptacle for the posts which are to be sharpened to recline in. The amount of slant required will depend on the length of the posts.

A Tool Rack.

A sensible and inexpensive tool rack is shown in the accompanying illustration. For such tools as long handled forks, brooms and hoes an ordinary auger hole would answer every purpose. For such tools, however, as a short-handled spade the holes will have to be chiseled out. In making this rack a board one inch thick and one foot wide will answer all practical purposes. It should be placed on uprights that are about two feet in length.

Stone Boats.

A stone boat is a useful thing even upon a farm where there is not a stone. It is handy for moving barrels or other heavy things about, but more especially so for hauling plows, harrows or bags of seed wherever they are needed about the farm. The first illustration shows one of these boats made of two curved runners connected by cross bars the ends of which are fitted into inch-and-a-half holes in the runners and wedged firmly to keep them in place. The second illustration shows another kind of stone boat made with plank sides and with bottom of oak boards laid crosswise. These boats may be made of any desired length, six feet long and three feet wide being the most convenient for general use.

A Sanitary Well Curb.

A well house like the above is a guarantee that impurities will not get into a dug well. The curb is set in a cement platform. This platform is built around the curb, thus holding it solid and preventing surface water from trickling down. The curb is made from matched lumber with a roof that has a sharp slope. The well wheel is hung on the center pole of the roof. The forms for the cement platforms are made from six inch boards. The concrete is mixed half cement and half ballast. Apply three inches of concrete, then spread on a layer of hog wire. Put bent rods around all the corners. Apply the rest of the concrete. Smooth off well and let stand three days before removing forms. The well curb should have lids attached with hinges, these can be closed when the well is not in use, thus preventing dust from blowing down.

That no better opportunity for profitable stock raising was ever offered to the farmers of the United States than that now presented by the present very moderate prices for pure-bred animals with which to improve foundation stock and prevailing high prices for all meat animals having proper market quality and finish, is the opinion of M. F. Horine, one of America's stock experts. There is, he has declared, a world-wide shortage of live stock, especially cattle. The population of all civilized nations are growing much faster than the general meat supply. South American live stock industries are crippled by three seasons of drouth and foot and mouth disease and the supply of meat animals in the United States has actually decreased during the last decade while the population has increased over 21 per cent. That there is an opportunity for the economical and profitable production of beef in many sections of Wisconsin those familiar with conditions willingly admit.

"The Lock With a Grip That Will Not Slip"

The Square Deal Lock **double** grips the one-piece stay wire to the strand wires and absolutely prevents them from slipping. It locks every joint of Square Deal Fence so your stock can't spread the stay wires—**holds every strand with an iron hand.**

Lets you forget you have stock full of life and energy on one side of the fence and fields of growing grain or hay on the other. Every Square Deal Lock is a lasting guarantee of fence satisfaction. There are no brittle welds to snap—no cumbersome knots to hold moisture, gather rust and weaken the fence. The simplest, strongest, **safest lock ever used on a wire fence.** Get Square Deal prices and see this fence before you buy.

Square Deal Fence

HAS WAVY STRAND WIRES, giving it elasticity—making it springy so it will quickly come back into shape after a sudden heavy strain—keeps it tight and trim the whole year round. These elastic waves are woven into the strand wires. They won't stretch out and let the fence sag between the posts. They are like so many steel springs keeping the fence tight and trim, giving your farm a well kept, prosperous appearance, and adding years of life to the fence.

THE ONE-PIECE STAY WIRES prevent sagging, bagging or buckling to let the pigs under. They help support Square Deal Fence so it requires fewer fence posts. This means a big saving of money, time and labor.

Write for Price List, Catalog and Free Folding 2-Foot Rule

Just drop us a postal and we will send you by return mail latest Square Deal prices, complete catalog, local dealer's name and a high grade, four section, 2-foot folding rule—all **FREE.** Send today.

KEYSTONE STEEL & WIRE CO.
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Beauty-Strength-Durability - Easy To Erect - Cost Less THAN Wood

CYCLONE FENCES AND GATES

This is the standard lawn fence of America—the fence of Quality and Economy. Gives the home permanent protection and makes the ground look attractive and prosperous.

CYCLONE LAWN FENCE is made of the best quality, large, heavily galvanized, rust-proof wire, woven by the exclusive Cyclone *sag proof* method. Easy to put up—self adjusting to uneven ground—may be erected on wood or iron posts. Made in many patterns.

CYCLONE VICTOR FARM GATE is heavily galvanized and built different from any other. You can raise it to any position and it stays there; automatic lock is absolutely stock proof. Strong, tubular steel frames; Fabric of heavy rust-proof wire held firm by stretcher bar; no holes to weaken frame.

Catalog Free. Write today. CYCLONE FENCE CO., Dept. 76 WAUKEGAN, ILL.

PEERLESS GALVANIZED SELF-RAISING GATES

Are filled with extra heavy Peerless Fencing of close woven all No 9 wire—strong enough to turn the heaviest animal—close enough to hold small pigs.

Perfectly adjustable, never sags out of shape or drags on the ground and fitted with a double latch. No chains, springs, or other tangle to give out and make trouble.

Think of the work saved by the self-raising feature—do a little figuring—see if it pays to put up with old style, cumbersome, inefficient gates.

Send for our complete Fence and Gate catalog which fully describes this new style.

Peerless Wire Fence Co.
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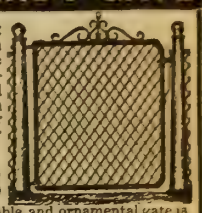
Adrian, Mich.

THE GATE WITH A "LIFT"

$1 90 FOR THIS DANDY GATE

These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**



Iowa Gates

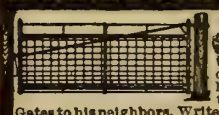
The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

IOWA GATE CO., 9 Clay St., Cedar Falls, Ia.

Do You Want This Steel Gate FREE



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The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 2 years' trial at our special direct-to-you factory price of $4.95.

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We manufacture hundreds of designs of ornamental fences, both Wire and Iron Picket, Arches and Entrance Gates. "cheaper than wood," for lawns, churches, cemeteries, parks and factories, etc. Write for free catalogue and special prices.

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STRONGEST FENCE MADE
FROM FACTORY DIRECT TO FARM

26-inch Hog Fence,.....13½c.
49-inch Farm Fence,.....22c.
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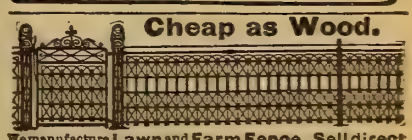
80-rod spool Barb Wire, $1.40

Many styles and heights. Our large Free Catalog contains fence information you should have.

COILED SPRING FENCE CO. Box 20 Winchester, Ind.

Cheap as Wood.



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ORNAMENTAL IRON FENCE

Strong, durable and cheaper than wood. Hundreds of patterns for lawns, churches, cemeteries, public grounds. Write for free catalogue and special offer. Complete line of Farm Fence, Gates, etc.

WARD FENCE CO., 232 Main St., Decatur, Ind.

NEWS OF THE SALE RING

Donohoe's Angus Sale.

M. H. Donohoe held his Aberdeen Angus sale at Williamsburg, Iowa, on March 5th. The sale was very successful and made a very satisfactory average. The cattle were a high-class lot and in excellent condition. George Wilkinson secured the top bull in Black Oakfield at $825. Silas Igo sold the offering in a very satisfactory manner. Those selling at $100 and above are listed below:

Barbara's Rosegay, calved January, 1904; D. M. Driscoll, Williamsburg, Iowa ---------- $365
Blackbird McHenry 66th, calved January, 1906; P. J. Donohoe, Parnell, Iowa ---------- 260
Blackcap McHenry 96th, calved October, 1910; Horan Bros., Ottumwa, Iowa ---------- 135
Violet Lawn Blackcap, calved May, 1910; C. J. Martin, Churdan, Iowa 160
Blackbird Favorite 3d, calved September, 1905; O. V. Battles, Maquoketa, Iowa ---------- 270
Black Lady F., calved November, 1910; J. R. Cline, Knoxville, Iowa 135
Blackbird of Cherokee 26th, calved May, 1905; W. O. Helton ---------- 200
Blackbird Mary, calved December, 1904; O. V. Battles ---------- 300
Blackbird Mary 3d, calved April, 1910; Horan Bros ---------- 130
Brunetta 2d, calved May, 1910; Marion Blythe, Disco, Ill ---------- 200
Blackbird McHenry 55th, calved 1904; C. J. Martin ---------- 150
Blackbird McHenry 73d, calved October, 1907; Sol Stoner ---------- 125
Black Edith F., calved February, 1911; Horan Bros ---------- 120
Broodside Blackbird 10th, calved August, 1910; Sam Rice, Disco, Iowa ---------- 220
Oakfield Blackbird D., calved September, 1910; John Jones, Williamsburg, Iowa ---------- 160
Oakfield Blackbird 14th, calved May, 1911; Marion Blythe ---------- 150
Violet Lawn Black Lady, calved February, 1911; Sam Rice ---------- 215
Oakfield Blackbird 19th, calved March, 1912; John Cash, Jr., Parnell, Iowa ---------- 145
Oakfield Blackbird 18th, calved March, 1912; O. V. Battles ---------- 300
Oakfield Blackbird 20th, calved July, 1912; C. O. Wurzbacher, Morley, Iowa ---------- 180
Oakfield Blackbird 17th, calved December, 1911; S. C. Pfeil, Monticello, Iowa ---------- 135
Blackbird Lulu, calved December, 1911; J. L. Dorsch, LaHarpe, Ill 105
Brookside Blackbird 20th, calved July, 1910; Sam Rice ---------- 225
Erinna of Woodlawn, calved November, 1903; Marion Blythe ---------- 125
Essie E., calved April, 1909; W. R. Franks, Renwick, Iowa ---------- 235
Violet Lawn Erica 2d, calved March, 1911; J. L. Dorsch ---------- 125
Brookside Eline 3d, calved June, 1909; P. L. Griffen, Parnel, Iowa 200
Pride 19th of Phoineas, calved March, 1902; W. R. Franks ---------- 170
Personette, calved December, 1902; J. L. Dorsch ---------- 105
Pride Personette, calved December, 1908; Dan Driscoll, Williamsburg, Iowa ---------- 120
Parthena, calved April, 1910; W. O. Helton ---------- 175
Parthena 2d, calved February, 1911; W. O. Helton ---------- 155
Violet Lawn Queen, calved April, 1906; L. Mullen, North English, Iowa ---------- 110
Queen of Cherokee 7th, calved September, 1902; G. E. Thornton, Millersburg, Ill. ---------- 145
Creekside Queen Esther, calved July, 1910; Geo. Wilkinson ---------- 150
Valentine Queen, calved February, 1907; W. O. Helton ---------- 110
Black Banco D., calved September, 1911; Sam Rice ---------- 150
Midnight Lass, calved June, 1910; Sam Rice ---------- 160

BULLS.

Black Oakfield, calved September, 1911; George Wilkinson ---------- 825
Black Eric D., calved October, 1911; S. C. Pfeil ---------- 130
Bombay D., calved July, 1911; W. O. Helton ---------- 120
Black Eslan 3d, calved May, 1912; O. V. Battles ---------- 200
Bull Moose, calved April, 1912; Geo. Wilkinson ---------- 200

SUMMARY.

40 females ------- $6,705; aver ------- $168
8 bulls ---------- 1,765; aver ------- 221
48 head ---------- 8,475; aver ------- 177

The Marshalltown Percheron Sale.

C. B. Dannen & Son and H. C. Lowrey held their sale of Percherons at Marshalltown on March 6th and held a very successful sale. Buyers were present from a large territory and secured good values for their money. E. J. Heisel, Fremont, Iowa, sold five mares in this sale that were extra good and averaged nearly $700 each. A list of the sales is appended. Pat McGuire, assisted by John Garis, sold the offering:

STALLIONS.

Jambameau, foaled March, 1909; Chas. Parsons, Carroll, Iowa ---- $1,110
Justinine, foaled March, 1909; D. O. Ellsworth, Iowa Falls, Iowa 900
Koman, foaled March, 1910; Briggs & Barber, Skidmore, Mo ---------- 900
Judicael, foaled April, 1909; Leslie White, Melbourne, Iowa ---------- 810
Jabiru, foaled April, 1909; E. W. Harmon, Marshalltown, Iowa --- 700
Juille, foaled May, 1909; J. C. White, Marshalltown, Iowa ------ 650
Koko, foaled June, 1910; Leslie Sheldon, Eldora, Iowa ---------- 325
Kocher, foaled June, 1910; L. C. Oleson, McCallsburg, Iowa ------ 350
Geranium's Best, foaled April, 1910; C. N. Hulveck, Zearing, Iowa ---------- 255
Wonderful, foaled April, 1911; Chas. Schultz, Liscomb, Iowa ---- 350
Bonaparte, foaled March, 1912; Wm. Kupp, Tama, Iowa ---------- 175
Snap, foaled April, 1912; W. Bucklin, Baxter, Iowa ---------- 170
Abdel Kader, foaled August, 1911; Mr. Banningardner ---------- 405
Nogent, foaled April, 1911; S. Etnier, Colo, Iowa ---------- 300
Milford, foaled May, 1911; L. E. Ditto, Seaton, Ill ---------- 185
Bayard, foaled June, 1910; R. Upbough, Elberon, Iowa ---------- 230

MARES.

Mynette, foaled May, 1905; E. R. Paul, Gillman, Iowa ---------- 510
Helen, foaled April, 1904; W. A. Marks, DeSoto, Iowa ---------- 485
Fearless, foaled June, 1906; Chas. Nelson, Marshalltown, Iowa --- 300
Lotta, foaled April, 1910; H. F. Howard, Springfield, Minn ------ 430
Myrtha, foaled May, 1910; Geo. Fergusen, Marshalltown, Iowa -- 200
Jale, foaled May, 1909; A. M. Griffiths, Albia, Iowa ---------- 260
Gelatine, foaled April, 1909; E. J. Stayskal, Toledo, Iowa ------ 275
Kochenille, foaled June, 1910; G. W. Tolls, Bondurant, Iowa ----- 375
Lexington, foaled May, 1910; John Fitzgerald, Marshalltown, Iowa 340
Elsmere, foaled May, 1911; P. J. Eggers, Denison, Iowa ---------- 300
Vivian, foaled July, 1911; Thos. Chola, Slater, Iowa ---------- 230
Alemo, foaled June, 1911; J. Fitzgerald, Colo, Iowa ---------- 275
Morine, foaled 1910; Jacob Buckler, Newburg, Iowa ---------- 410
Kolere, foaled May, 1910; Geo. Bonewell, Grinnell, Iowa ------ 305
Kohue, foaled April, 1910; Dr. Nesbitt, Waterloo, Iowa ---------- 410
Komtesse, foaled May, 1910; Thompson Bros., Legrand, Iowa 355
Mignon, foaled June, 1910; Dr. Nesbitt ---------- 200
Kiel, foaled May, 1910; L. G. Remberton, Marshalltown, Iowa ---- 305
Kolerete, foaled May, 1910; Henry Kruger, Baxter, Iowa ---------- 400
Koleje, foaled May, 1910; H. Buckner, Baxter, Iowa ---------- 445
Kolombe, foaled May, 1910; E. Doesark, Melbourne, Iowa ------ 295
Kolature, foaled May, 1910; Thompson Bros. ---------- 355
Katherine, foaled June, 1912; E. H. Stotts, Stuart, Iowa ---------- 245
Flora, foaled May, 1912; E. H. Stotts ---------- 255
Phyllis, foaled May, 1907; Theo. Peters, Kellogg, Minn ---------- 625
Mable, foaled August, 1902; L. Bissell, Tama, Iowa ---------- 395
Alice, foaled May, 1910; J. Cooper, Garwin, Iowa ---------- 305
Trompeuse, foaled April, 1905; M. G. Briers, Ft. Dodge, Iowa ----- 360
Hate, foaled May, 1907; L. W. Barnett, Lynden, Iowa ---------- 610
Gamine, foaled May, 1906; Fred Otto, Gilman, Iowa ---------- 820
Guinett, foaled March, 1906; E. H. Stotts ---------- 750
Raquette, foaled March, 1905; Fred Otto ---------- 750

SUMMARY.

17 stallions ----- $ 7,920; aver ----- $466
33 mares -------- 13,215; aver ----- 400
50 horses ------- 21,135; aver ----- 423

The Kansas City Hereford Sale.

The sale of Hereford cattle held at Kansas City, Mo., on March 4th and 5th by Benton Gabbert, Dearborn, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; Funkhouser Estate, Plattsburg, Mo.; J. W. Lenox, Lake City, Mo.; S. J. Gabbert, Dearborn, Mo.; T. W. Carmichael, Odessa, Mo.; James A. Gibson, Odessa, Mo., and R. T. Thornton, Kansas City, Mo., under the management of R. T. Thornton, was the most successful sale ever held by these gentlemen. They had put their cattle in good condition for the buyers and were rewarded accordingly. The top of the sale was $535, paid by W. I. Bowman, Ness City, Kan., for Generous 5th, consigned by Jas. A. Gibson. The demand for bulls has not been so strong in years. J. B. Gillette, Marfia, Texas, was the heaviest buyer of range bulls. Colonels Reppert and Zaun did the selling. Following is a list of the sales:

BULLS.

Coral Lad, two years; J. F. Speck, Nortonville, Kan. ---------- $280
Sir Simoon, one year; J. B. Gillette, Marfia, Texas ---------- 235
Bright Lad 2d, one year; J. B. Gillette ---------- 250
Sir Simoon 26th, one year; J. B. Gillette ---------- 250
Sir Simoon 27th, one year; R. H. Hazlett, Eldorado, Kan ---------- 250
Sir Simoon 28th, one year; J. B. Gillette ---------- 245
Sir Simoon 29th, one year; J. F. Dolan & Son, Ciebring, Colo ----- 255
Advertiser 11th, one year; M. A. Kelley, Bucyrus, Kan ---------- 405
Editor, one year; J. B. Gillette ----- 205
Editor 2d, one year; J. B. Gillette -- 130
Editor 3d, one year; E. E. Powell, Windsor, Mo. ---------- 200
Editor 4th, one year; W. Lambert, Silvan Grove, Kan ---------- 180
Editor 5th, one year; Chas. Doty, Armour, Neb. ---------- 200
Don Simon, one year; A. E. Patton, Bowers' Mill, Mo ---------- 210
Cromwell 5th, two years; C. F. Peterson, Parker, Kan ---------- 470
Onward Lad 42d, one year; J. F. Dolan & Son ---------- 250
Rex Onward 15th, one year; J. B. Gillette ---------- 205
Onward Lad 41st, one year; Joseph Divelbliss, Olathe, Kan ---------- 265
Rex Onward 14th, one year; Fred Mathews, Kingsley, Kan ---------- 400
Rex Onward 12th, one year; J. B. Gillette ---------- 200
Cromwell 6th, one year; Wm. Henn, Denver, Colo. ---------- 475
Rex Onward 17th, one year; Dick Judy, Columbia, Mo ---------- 350
Rex Lad, one year; Joel Mulvane, Topeka, Kan. ---------- 315
Lord Stanway, one year; John Oberg, Dwight, Kan ---------- 450
Sir Paul, one year; Carl Miller ----- 415
Columbus Folly 10th, one year; F. G. Egger, Appleton City, Mo ----- 250
Columbus Blend 22d, one year; Wm. Henn ---------- 170
Columbus Folly 9th, one year; J. B. Gillette ---------- 230
Columbus Prize 25th, one year; J. A. Corzine, Caldwell, Kan ---------- 245
Columbus Folly 8th, one year; C. B.

(Continued on page 42.)

BIG MONEY

Quick, easy work and large profits to the man who sells Dr. Ward's high-grade line of medicines, spices, toilet goods and household necessities. Everything for the housewife—and everything so *good* that folks say—"Wait for the Ward Man."

Here's our agent, John W. Porter, and his letter:

"Dear Friend:

Five years ago I was teaching a country school at $35 a month. A medicine salesman offered me $40 per month and expenses to run his wagon for three months while he went on a vacation. At the end of three months he offered me $50 per month and expenses. I accepted. For that year he did nothing but collect from me weekly and order more goods. I saw that I was supporting his family on his profit and I secured a territory for myself. I now own my own home free from debt, am all paid up with the Dr. Ward Company and enjoy an independent business. If you are working and getting less than $100 a month, write to the Dr. Ward Medical Company. I could not advise you otherwise.

Yours truly,
JNO. W. PORTER, Norfolk, Neb."

BOOKS FREE

Send for them. Find out about this big paying business: Why should *you* take orders from *any man*? We furnish supplies and stock your wagon *free*. The time is ripe and —if you act *promptly*—the territory is ready. Get in on this *money making chance today*, with prospects of from $20 to $45 a week. A postal to us starts the ball rolling toward a big paying job with every chance of an independent future. These interesting books can be yours by return mail.

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MEN WANTED IN AUTO BUSINESS

Big demand for trained men. Earn from $75.00 to $150.00 per month. Learn all about automobiles in six weeks by

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FREE—Write today for catalog and certificate, entitling you to free $50 course in running traction engines—we own two tractors. Only auto school in the world teaching tractioneering. Send name today.

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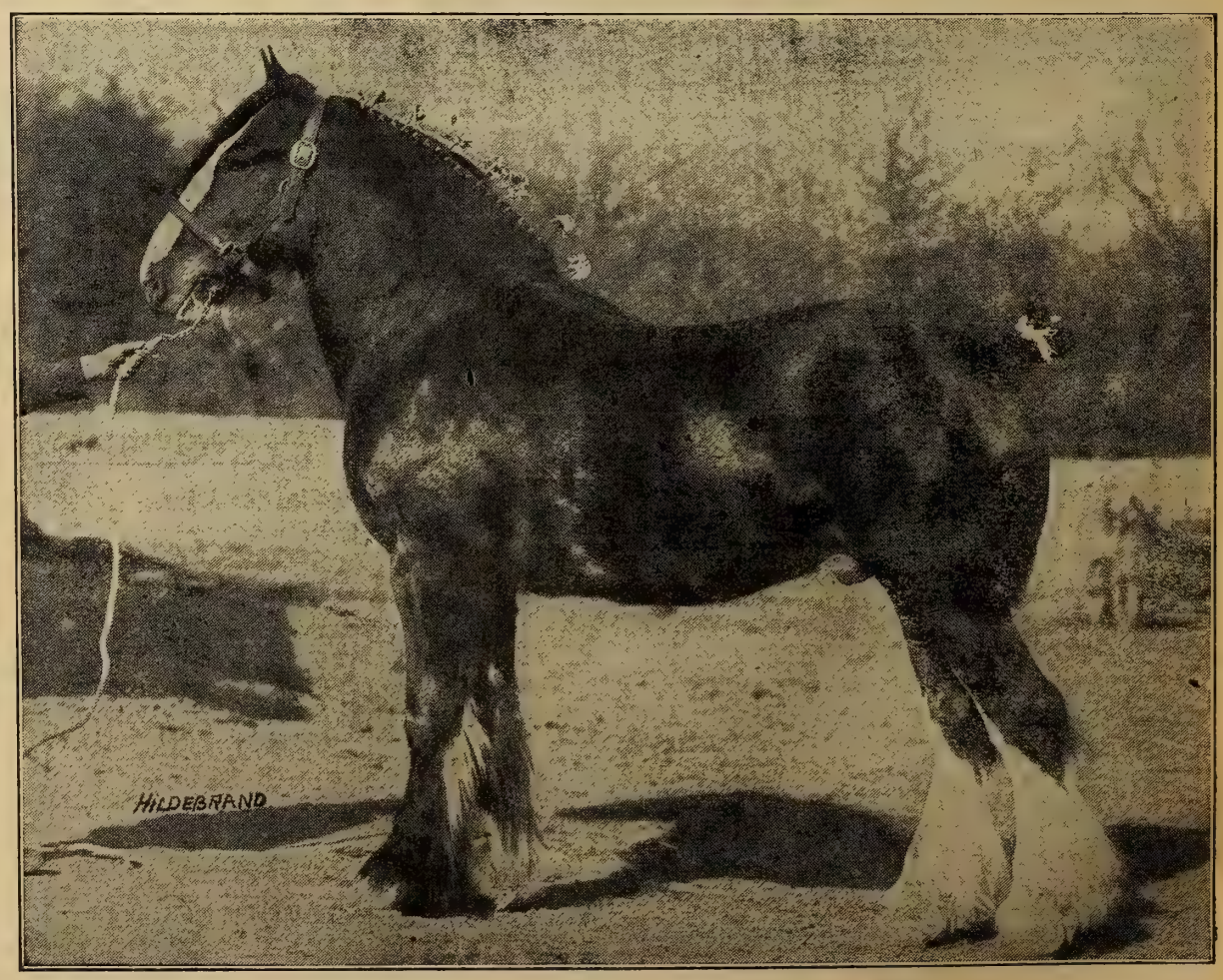

The two-year-old Shire stallion, Lymm Wonder, weighing 2,000 pounds, one of the best horses in America today, a grandson of the great sire, Locking Forest King, owned by Peter Hopley & Son, Lewis, Iowa. They are now offering this horse and twenty-five other two and three-year-old Shires for sale from $800 to $1,300 that are sound and right and guaranteed breeders. You will find them at their farms at Atlantic and Lewis, Iowa.

How to Improve Our Rural Schools.

By Sen. H. M. Culbertson, Wisconsin.

NATURE, or the undefined law of causes and effects, gives to each new-born person more or less ability, strength as well as weakness and somewhat in the same proportion as these are to be found in its parentage of one or more generations. Considered in a general way, the child is a product of its heredity and environment. Associate a child with abundance of that which produces a smile and a smile becomes one of its individual characteristics, but a generation or two of parentage, well established by early culture of the same, would probably be required to establish this as a reproductive characteristic of the child. (Certain things are being developed in this way by the breeder, foods and environment having been found to have decided influences upon animal life.)

As a people we have left practically all, at least, too much of the training of the child to what we term school, but today are beginning to question the correctness of the custom. We even ask ourselves, "What is wrong with our method of developing humanity, physically and mentally?" We have not been associating an organism with conditions suited only to the development of the desired traits or characteristics.

The manufacturer or merchant wishing to employ an assistant of unusual industry and perseverance oftentimes seeks the country boy or girl, because in them these traits have been developed. The reason is, their association with that kind of life has established this within them. They possess no more natural ability, but have been occupied more substantially. If book learning would have best fitted them for life's work this might not have the result, for the city youth has greater advantages in this respect. Again, the city trained man or woman too may be the most unsatisfactory help in the country; a narrowness may be present which will be difficult to overcome.

City life with its educational advantages does not generally furnish the best material for a nation. Furnish every factor that the country child needs for his education in the country and let his country home be his home until he is developed, then if the city must have him to develop its future let him go. I am opposed to giving the country boy or girl his or her early education in the city. The child with a well-developed country life knowledge never needs to take the second place for capabilities. Of course, he may not be waywise in some things.

Give the boy or girl schooling that is constantly associated with life's problems. Keep them in the country, in the midst of the field of activities where original things and ideas develop and prove out in practice. And most of all give the farm boy an abundance of the practices and sciences in agriculture for it is the greatest and deepest of all industries and studies, and dependencies of the nation, but give it to him in most part when he is in his country home, and in schools established for this specific purpose and in such a way that each day's studies may be demonstrated in actual practice. Give him an education that shall not wither and fade away with a little absence from usage and leave him unprepared, but that which shall establish with him a broad capability for good common sense.

The rural school question is one in which a great number of people are deeply interested today and very many realize that the present methods are unsatisfactory. Every day some time in every school should be devoted to the practical things of everyday life; the soils and farm crops and what becomes of them commercially; that they have a value, and it is their value and transportation that produces the world's business. The older enjoy short lectures in the

TWO SPLENDID HEREFORD BULLS THAT WILL BE INCLUDED IN THE A. F. HAGER SALE AT AVOCA, IOWA, ON MARCH 20TH.

lay of the earth's surface and formation, and the construction of railway lines, and forests and their uses.

Plant and animal life should be two comprehensive studies in the rural school, but no subject should be advanced too rapidly, because then discouragement and a lack of interest follows.

Among the advanced pupils a plan of doing business with the teacher, the banker or accountant may be taught. Physiology can be taught only as the pupil is developed to the stage of absolute comprehension, possibly as it applies to health or accident or with some direct question up for the basis of interest.

With the present methods of teaching many of these are not within the pupil's grasp and he passes on from day to day without interest, consequently there is a waste of time. There is but little place for civil government, history, physiology, grammar, and perhaps some others, in the country school as applied today, and each as taught is but a waste of time.

First, then, we must have trained teachers for the country schools. Second, we should prolong the school period two years because too many will not go elsewhere and this school is the one that the nation depends on most. Third, in many cases schools should be consolidated, because the attendance is so small that no interest can be maintained. Fourth, we need a revised edition of country school books.

The prime feature must be to establish an inquisitive mind within the pupil so he will begin prying into things, then if he can become fascinated with his surroundings, with the way of things, he will soon develop ideas of his own and develop common sense and judgment, and the battle is then won. It is not so much a lot of learning that is needed, but the nack of applying it and the establishing of a basis for good judgment.

BEST DEHORNERS ON EARTH They make quiet cattle always. 15 years on the market. Invention of a veterinarian. Ask hardware dealers for them. If they do not supply write for catalog and prices of 3 styles

Leavitt Mfg. Co., (Manufacturers)
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WANTED: A MAN OR WOMAN all or spare time to secure information for us. Work at home or travel. Experience not necessary. Nothing to sell. GOOD PAY. Send stamp for particulars. Address I. S. I. A., 552 L Bldg., Indianapolis, Indiana.

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Up-to-date Features

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- Electric Side Lamps in Dash
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YOUR CAR

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THE new 1913 GLIDE is the car you've been waiting for—the car that's strong enough to *stand up* on rough country roads, yet light enough to be easy on tires and fuel—the car that will climb the steepest hills—speed you along at 60 miles per hour—give you no trouble whatever.

The car that looks as good and *is* as good as any car that ever passed your door—that contains *all* of the newest equipment features of the *highest priced cars*.

Truly a *first* class car in every respect—that will give you *complete* satisfaction in every way—yet priced at a *reasonable* figure that you will be perfectly willing to pay.

Such a car is the New 1913 GLIDE "36-42"—made in Peoria by

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whose enviable reputation as high class manufacturers you have known of for over 30 years!

Don't think of closing any Auto deal until you learn about the GLIDE "36-42."

You can pay more, and get less—pay less and get little

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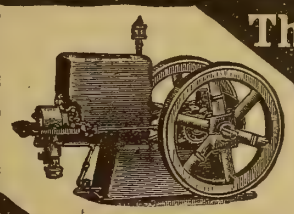
describing and illustrating the GLIDE "36-42" in detail, in both 2 and 5-passenger styles. Get your pencil out *right now* and drop us a postal before you forget.

5-Passenger GLIDE "36-42"

Fully equipped $1690
Less Top and Glass Front $1640

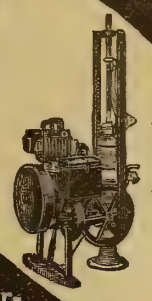
The actual work done in the field is what has made the great demand for Fuller & Johnson Engines



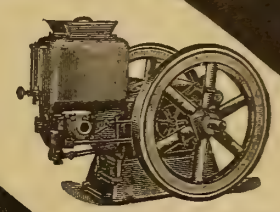
People's Price Engine

No farm is complete without one.

73 years of manufacturing means economical, serviceable and durable engines.



Farm Pump Engine



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Write for Farm Pump Engine or General Purpose Engine Catalog. State which.

FULLER & JOHNSON MFG. CO. (Est. 1840)

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Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 600 Popular Bldg, Des Moines, Ia.

Lock Stitch Sewing Awl FOR YOU

This Awl

is a wonderful tool and a household necessity. Diamond ground needles and complete supplies including thread, come with every outfit. Can be carried in pocket. This awl will save you many a trip to the shoemaker and harness shop. Given free with a two-year subscription to People's Popular Monthly Great Home Magazine, for only 60 cents.

PEOPLE'S POPULAR MONTHLY
Dept. 2, Des Moines, Iowa

NEWS OF THE SALE RING.

(Continued from page 40.)

Lancaster, Bowers' Mill, Mo----- 255
Columbus Folly 5th, one year; J. B. Gillette ---------- 200
Columbus Folly 11th, one year; J. B. Gillette ---------- 190
Columbus Folly 7th, one year; E. H. Kolterman, Wamego, Kan------ 275
Beau Folly 6th, one year; W. S. Oates, Adrian, Mo---------- 200
Jewell's Columbus, one year; R. H. Hazlett ---------- 185
Beau Folly 4th, one year; J. B. Gillette ---------- 205
Ruby's Folly, one year; Leon Doty, Armour, Neb. ---------- 305
Columbus S., one year; E. M. Hughes, Casey, Iowa---------- 235
Majestic Folly, one year; Robert Hazlett ---------- 235
Columbus Prince, one year; J. B. Gillette ---------- 180
Sir Simoon 5th, two years; International Cattle Co., Olivette, Kan--- 510
Simeon, one year; Robert Hazlett-- 250
Simeon 2d, one year; J. B. Gillette 205
Simeon 3d, one year; J. W. Cline, Armour, Neb. ---------- 235
Onward Lad 6th, four years; E. E. Bailey, Scranton, Kan---------- 345
Generous 5th, two years; W. I. Bowman, Ness City, Kan-------- 535
Odessa Lad, one year; E. H. Guitard, Columbia, Mo---------- 305
Odessa Lad 2d, one year; John Stork, Paxico, Kan---------- 440
Odessa Lad 3d, one year; Wm. Lambert, Silvan Grove, Kan---------- 235
Odessa Lad 6th, one year; W. H. Wright, Council Grove, Kan----- 325
Odessa Lad 9th, one year; J. B. Gillette ---------- 195
Odessa Lad 10th, one year; W. D. Wallace, Holden, Mo---------- 275
Odessa Lad 12th, eleven months; J. B. Gillette ---------- 215
Odessa Lad 14th, eleven months; O. H. Turner, Sedalia, Mo---------- 105
Beau Ultra, three years; Frank Hug, Scranton, Kan---------- 525

FEMALES.

Lucia, one year; Carl Miller, Bellevue, Kan. ---------- 180
Otie, two years, R. A. Bercham, Windsor, Mo. ---------- 155
Sona, two years; C. E. Lancaster-- 115
Bedelia, two years; C. B. Lancaster 200
Sparkle, two years; G. A. Newell, Ottawa, Kan. ---------- 200
Winnie B., two years; Cyrus A. Tow, Norway, Iowa ---------- 180
Berenice, two years; R. F. Plummer & Son, Wellington, Kan----- 200
Lady Maid, two years; J. M. Curtice, Independence, Mo---------- 215
Alimeta, four years; Frank Hahn, Harlan, Iowa ---------- 220
Zephyr, five years; Frank Hahn--- 225
Lillian 2d, one year; R. F. Plummer & Son---------- 140
Putia, two years, and c. c.; J. F. Gulich, Jasper, Mo---------- 180
Lady Bess, two years; W. W. Strowig, Paxico, Kan---------- 150
Barbara, three years, and c. c.; J. S. Hanna, Granger, Mo---------- 220
Lady Maud, four years; J. F. Gulich ---------- 200
Mildred, four years; Frank Hahn-- 200
Jane, six years, and c. c.; J. F. Gulich ---------- 155
Lou, two years; J. S. Hanna------ 185
Nora, two years, H. D. Plummer & Son ---------- 145
May Bloom, one year; Carl Miller--- 175
Cecil 2d, two years; Frank Hahn-- 230
Dewdrop, two years; S. T. Clark, Paxico, Kan. ---------- 150
Callie, three years; W. W. Strowig 185
Dinah, two years; S. T. Clark------ 145
Aldine, two years; J. S. Hanna----- 165
Lillian, two years; S. T. Clark---- 175
Dixie, two years; W. W. Strowig-- 175
Clara, one year; W. W. Strowig---- 100

SUMMARY.

57 bulls ------$15,545; aver-----$272.72
28 females --- 5,295; aver------ 189.00
85 head ------ 20,840; aver----- 245.17

Shade's Hereford Sale.

One of the largest and best buying crowds that has been seen at a western Hereford sale in recent years attended the J. A. Shade sale at Kingsley, Iowa, on March 6th, and he sold forty-nine head at an average of almost $300. The demand was wonderful for both bulls and females and many persons who came to buy were unable to get what they wanted because of the demand for cattle. The eagerness with which those attending this sale went after these cattle shows conclusively the awakening of the people to the needs of the average farmer and breeder on the average American farm today. They could have sold twenty or thirty more bulls in this sale had they had them. The top of the sale was Beau Matchless, a double-bred Beau Donald bull sired by Beau of Shadeland 35th, and he was purchased by Thomas Mortimer, Madison, Neb., at $780. J. B. Ashby, Audubon, Iowa, secured Rex Dorian, a son of the great bull, Dandy Rex, at $725, and George J. Anstey, Massena, Iowa, selected Beau Dover, a son of Beau Dandy, at $575. The top of the female offering was Helena, a four-year-old daughter of Beau Folly, with bull calf at foot, and she went to W. E. Campbell, Gilmore City, Iowa, at $410. Altogether it was a great sale and marks the era of a new dawn in the cattle business. Col. Fred Reppert cried the sale. Below we list the entire offering:

BULLS.

Rex Dorian, calved May, 1908; J. B. Ashby, Audubon, Iowa ----------$725
Beau Dover, calved December, 1911; Geo. J. Anstey, Massena, Iowa--- 575
Elect 6th, calved October, 1911; Walter Price, Miles City, Mont------ 500
Elect 9th, calved March, 1912; A. F. Hager, Avoca, Iowa---------- 325
Elect 4th, calved June, 1911; Marion Armentrout, Botna, Iowa-------- 230
Elect 7th, calved November, 1911; R. H. Hazlett, Eldorado, Kan-------- 285
Elect 2d, calved March, 1911; Joe Droge, Remsen, Iowa---------- 205
Elect 8th, calved December, 1911; T. Peters, Emerson, Neb---------- 250
Beau Matchless, calved June, 1911; Thomas Mortimer, Madison, Neb- 780
Belfast, calved September, 1911; Wm. Henn, Denver, Colo--------- 230
Elect 10th, calved April, 1912; M. R. Cashman, Owatonna, Minn------ 200
Monarch 9th, calved November, 1910; J. A. Merchant, Newcastle, Neb. ---------- 400
Beau Albany2d, calved May, 1912; Thomas Mortimer ---------- 300
Matthew, calved October, 1911; W. C. Palmer, Tyler, Minn---------- 290
President 2d, calved April, 1912; Ed Rinehart, Ogden, Iowa---------- 260
Duke, calved August, 1911; R. H. Hazlett ---------- 290
Premier, calved January, 1912; Geo. Doyen, Pomeroy, Iowa---------- 150
Randall, calved February, 1912; W. F. Muth, Hawarden, Iowa--------- 230
Lloyd, calved September, 1911; Tom Mortimer ---------- 315
Donald, calved February, 1912; F. S. Hall, Otoe, Iowa ---------- 265
McKinley, calved November, 1911; R. H. Hazlett---------- 205
Emil, calved July, 1911; Wm. Henn 240
Elect 5th, calved September, 1911; Wm. Henn ---------- 255
Drew, calved June, 1912; Ira Nash, Kingsley, Iowa ---------- 180
Dakota Lad, calved October, 1911; Herman Rankin, Struble, Iowa--- 150
Promoter, calved January, 1912; A. McClusky, Anthon, Iowa---------- 210

FEMALES.

Petonette, calved September, 1899; R. H. Hazlett---------- 305
Delight 3d, calved December, 1903; J. B. Ashby---------- 360
Lady Lavender, calved March, 1909; Gibbons & Son, Atlantic, Iowa--- 255
Geraldine, calved June, 1909; Gibbons & Son---------- 355
Lady Elect 7th, calved June, 1911; C. A. Tow; Norway, Iowa-------- 311
Lady Elect 3d, calved April, 1911; A. F. Hager ---------- 230
Helena, calved July, 1908; W. E. Campbell, Gilmore, Iowa---------- 410
Lovely Lass, calved September, 1910; W. T. McCray, Kentland, Ind. ---------- 375
Jennie, calved April, 1911; J. J. O'Hearn, Carroll, Iowa---------- 240
Queen, calved April, 1911; W. T. McCray ---------- 305
Lady Elect 8th, calved April, 1911; C. A. Tow ---------- 300
Geneva, calved April, 1910; G. J. Sulky, Geddes, S. D---------- 275
Beatrice 2d, calved July, 1908; J. A. Merchant ---------- 280
Imogene, calved March, 1910; Harris & Son, Harris, Mo---------- 270
Gertrude, calved April, 1910; W. T. McCray ---------- 205
Lady Elect 2d, calved March, 1911; Marion Armentrout ---------- 220
Blossom, calved October, 1909; C. P. Sorensen, Ballantan, Minn---- 250
Generous, calved April, 1910; J. J. O'Hearn ---------- 260
Rhode, calved July, 1910; J. B. Ashby ---------- 230
Gossip, calved May, 1910; Harris & son ---------- 275
Miss Nettie, calved November, 1908; C. A. Tow---------- 305
Winifred, calved July, 1911; Francis Mayne, Harlan, Iowa--------- 215
Goreaus, calved May, 1910; C. A. Tow ---------- 300

SUMMARY.

26 bulls ------$8,005; aver------$307.69
23 females ---- 6,515; aver------ 283.26
49 head ------14,520; aver------ 294.00

The E. S. Mayes, Jr.-McKee Bros.' Defender Sale.

On Friday, February 28th, the above named gentlemen held a most successful sale at Springfield, Ky. Colonels Igleheart, Irwin and Wheeler did the selling in fine shape. The visitors from everywhere, north, south, east and west, were numerous. Below is a list of prices and buyers:

1. R. M. Banister, Lebanon, Ky.$301.00
3. W. P. Penry, Radnor, Ohio-- 207.50
4. G. F. Long, Holland, Ky---- 100.00
5. W. M. Mayes, Gallatin, Tenn. 123.00
6. G. F. Long---------- 160.00
7. R. M. Banister---------- 191.00
8. W. P. Sparks, Thomasville, Ga. ---------- 155.00
9. J. E. Hite, Gallatin, Tenn---- 150.00
10. J. Chapman, Woodburn, Ind. 120.00
11. Crawford Bros., Lebanon, Ky. 181.00
12. T. D. Tapp, Springfield, Ky-- 230.00
13. Gibson & Doty, Richmond, Ky. 100.00
14. Adams & Bonta, Harrodsburg, Ky. ---------- 140.00
15. Spaulding Clements, Springfield, Ky. ---------- 130.00
16. Miller & Larue, Hodgenville, Ky. ---------- 113.00
17. Miller & Larue ---------- 132.50
18. J. W. Clarkson, Lebanon, Ky. 125.00
19. Jess Andrews, West Point, Ind. ---------- 146.00
20. S. Hagen & Son, Owensboro, Ky. ---------- 75.00
21. C. S. Brewton, Larkinsville, Ala. ---------- 138.00
22. Crawford Bros. ---------- 185.00
23. P. O. Minor, Owenton, Ky--- 126.00
24. Tom Johnson, Columbus, Ohio 131.00
25. Jess Chilton, Campbellsburg, Ky. ---------- 51.00
26. McKee Bros., Versailles, Ky. 57.00
27. Tom Jomnson ---------- 80.00
28. W. P. O'Born, Marion, Ohio-- 51.00
29. H. E. Hawkins, Harrisburg, Ill. ---------- 65.00
30. Jess Chilton ---------- 107.50
31. P. O. Minor ---------- 44.00
32. Crawford Bros. ---------- 148.00
33. Tom Johnson ---------- 42.50
34. H. L. McNeal, Paducah, Ky-- 121.00
35. W. P. O'Born ---------- 271.00
36. Tom Johnson ---------- 135.00
37. Crawford Bros. ---------- 62.00
38. I. H. Thurman, Springfield, Ky. ---------- 50.00
39. G. F. Long ---------- 49.00
40. Louis Hange, Belmond, Iowa 57.00
41. S. Hagan & Son---------- 48.00
42. Dr. H. M. Marsh, Danville, Ky. ---------- 65.00
43. P. O. Minor ---------- 75.00
44. B. F. Robinson, Lancaster, Ky. 52.00
45. P. S. Barber, Springfield, Ky. 35.00
46. I. H. Thurman---------- 80.00
47. S. Hagan & Son---------- 81.00
49. J. C. McConnell, Danville, Ky. 21.00
50. M. C. Helm, Danville, Ky---- 25.00
51. Louis Hagin, Lexington, Ky-- 40.00
52. Gibson & Doty ---------- 40.00
53. J. O. Kerfoot, Elizabethtown, Ky. ---------- 29.00
55. Irvine O'Briant, Lancaster, Mo. ---------- 20.00
56. Dr. H. M. Marsh---------- 21.00
57. Smith & Rodgers, Springfield, Ohio ---------- 190.00
58. C. L. Brady, Springfield, Ky- 20.00

Fifty-six head sold for a total of $5,749, an average of $102.66 per head. Twenty sows bred to Defender averaged $153.30 per head. Three sows bred to Superba averaged $175.50.

Parker's Short-horn Sale.

R. M. Parker held a successful sale of Short-horn cattle at his farm near Midland City, Ill. It was, with the exception of one bull, an offering of Scotch-topped cattle, and the prices paid demonstrated that the farmers want good cattle. The animals all went to farmers in Clinton and adjoining counties, a section that has been devoting its greatest energies to grain farming for several years, and the renewed interest in cattle in that region is a most hopeful sign. The cattle were presented in good condition and Mr. Parker conducted the sale in a satisfactory manner. He is a good cattleman and from the small herd that he has left good results may be looked for. Cols. Orval Jones, Rolofson and Harman were the auctioneers, and the following is a report of all cattle selling for $100 or over:

COWS AND HEIFERS.

Prophetess 4th, calved 1905; J. M. Horn, McLean, Ill----------$170
Daisy 4th, calved 1906; J. M. Horn- 110
Hazel, calved 1907; Ira E. Orendorf, Heyworth, Ill. ---------- 125
Lucile, calved 1909; Dan Randall, Scotland, Ill. ---------- 125
Funke's Lady, calved 1910; David Robison, Beason, Ill---------- 175
Fay Catherine, calved 1910; J. M. Horn ---------- 130
Red Pansy, calved 1911; J. M. Horn 105
May Girl, calved 1911; F. W. Jurd, Clinton, Ill. ---------- 100
Rose Belle, calved 1907; John Carlson, Beason, Ill---------- 105
Pansy Pickerell 2d, calved 1907; B. C. Banner, LeRoy, Ill---------- 130
Rosedrop, calved 1909; David Lahr, Kenney, Ill. ---------- 130
Iona Rose, calved 1909; Dan Randall 125
Lady Beth, calved 1911; David Robison ---------- 105
Roan Daisy, calved 1912; J. M. Horn 150
Ella Gaudy, calved 1909; Hugh McCormick, Pawnee, Ill---------- 140
Ruth Duff, calved 1910; Hugh McCormick ---------- 105
Rose Banff, calved 1911; Hugh McCormick ---------- 105
Josephine, calved 1910; M. J. Ban-

Yours Is the Work That Counts

YOUR season's work means a great deal to you. After you have fertilized your soil, plowed, harrowed and perhaps rolled it, planted your seed in the carefully prepared seed bed, tended the growing crops and watched the grain ripen, you have a right to a full harvest. You can be sure of a 100 per cent return from your fields when you use efficient modern machines for your farm work. You would certainly be taking an unwise and unnecessary chance if you bought a machine that might not do your work as it should be done. To be on the safe side, buy I H C harvesting and haying machines and tools, all of which have proved their reliability through years of experience with harvesting and haying conditions on farms in every part of this country. These dependable machines may be identified by the following well-known names:

Champion Deering
McCormick Milwaukee
Osborne Plano

There is no better time than the present to investigate and decide which machine is the best for you to buy. The opinion of your neighbors is valuable, and should help you to come to the right decision. All of the machines are so simple that they may be handled by ordinary farm help. They are so efficient that there is no question of their capacity for cutting, binding, and saving all the grain in any field, whether it be heavy or light, tall or short, standing, down, or tangled. The haying machines are as efficient as the harvesting machines. When you buy an I H C machine you do away with any chance for unreasonable delay at harvest time. Should anything happen to your machine, it is possible, no matter where you may be, for you to obtain repairs in a few hours' time. Our efficient organization, which includes nearly a hundred general agencies carrying complete stocks of repairs, and over thirty thousand local dealers who carry repairs for the machines they handle, is the most practical guarantee you can have that your grain will be cut and bound at the proper time, and without delay and annoyance.

To secure the best results from these good machines, it is necessary to use a strong, smooth binder twine of reliable quality. I H C binder twine is made under seven brand names—Champion, Deering, McCormick, Milwaukee, Osborne, Plano, International, each in four grades—pure manila, manila, sisal, and standard. Each ball of twine marked with any of these names is guaranteed for length, strength and uniformity of size and quality.

Yours is the work that counts. Make sure that it is done as it should be done by seeing the I H C local dealer and buying from him the I H C harvesting and haying machines, tools, and binder twine that you will need for this harvest. He will supply you with catalogues and full information, or, write

International Harvester Company of America
(Incorporated)
Chicago U S A

ner, LeRoy, Ill---------- 130
Fern, calved 1909; S. Elder, Scotland, Ill. ---------- 105
Mildred T., calved 1908; Ira E. Orendorff ---------- 160
Lydia, calved 1905; Lloyd Parker, Kenney, Ill. ---------- 100
Lydia's Pet, calved 1909; Hugh McCormick ---------- 100

BULLS.

Victor Robin, calved 1909; Frank Cline, Clinton, Ill---------- 140
Victor Rose, calved 1912; L. A. Phares, Clinton, Ill---------- 115
Teddy R., calved 1912; E. R. Dickerson, Chillicothe, Ill---------- 155
Duke Pickerell, calved 1912; S. Elder ---------- 155

SUMMARY.

31 females ------$3,415; aver------$110
7 bulls ---------- 800; aver------ 114
38 cattle --------- 4,215; aver------ 111

Duncan's Duroc Sale.

It was a fine crowd of breeders present to attend a good man's sale and that same good man gave them a chance to purchase a most excellent bunch of Durocs and this said fine crowd gave Mr. Duncan an average of $70 on fifty head and a dozen of them were September, 1912, pigs which were fine as silk and well grown. Col. H. L. Igleheart made a masterful speech and then he and Colonels Irwin and Wheeler sold hogs. Breeders who were at Lebanon, Ky., that day will long remember the event. Below is a list of buyers and prices:

1. Bob Ewing, New Hampshire, O.$300
2. C. E. Tate, Stanford, Ky-------- 177
3. C. F. Long, Holland, Ky-------- 100
4. W. P. Sparks, Thomasville, Ga. 77
5. G. F. Long---------- 68
6. R. M. Bannister, Lebanon, Ky-- 67
7. C. E. Tate---------- 103
8. Wilson Cook, Corydon, Ind------ 71
9. H. McBeath, Danville, Ky------- 69
10. G. F. Long---------- 58
12. Thurman & Peters, Springfield, Ky. ---------- 69
13. C. E. Tate ---------- 40
14. Smith & Rodgers, Springfield, O. 35
15. C. D. Moss, Horse Cave, Ky----- 75
16. C. E. Tate---------- 50
17. T. L. Youtis, Lancaster, Ky---- 49
18. C. D. Moss---------- 63
19. J. H. Kesler, Therlow, Ky------ 50
20. F. H. Tender, Lancaster, Ky----- 50
21. C. E. Tate ---------- 56
22. K. C. Hall, Laurel, Miss-------- 36
23. C. S. Brewton, Larkinsville, Ala. 64
24. Wilson Cook ---------- 50
25. G. F. Long---------- 40
26. C. E. Tate ---------- 50
27. Newton Lachnour, Salem, Ind--- 37
28. Elmer Cummins, Ennison, Ind--- 43
29. Jess Andrews, West Point, Ind. 45
30. Thurman & Peters---------- 50
31. Dr. R. C. McCord, Lebanon, Ky. 42
32. E. P. Sanders, Campbellsville, Ky. ---------- 29
33. McKee Bros., Versailles, Ky----- 25
34. Elmer Cummins ---------- 30
35. C. E. Tate---------- 40
36. J. E. Hite, Gallatin, Tenn------- 44
37. J. W. Storm, Seville, Ohio------- 141
38. H. E. Browning---------- 140
39. H. E. Browning---------- 100
40. D. W. Randolph, Harrisburg, Ill. 91
41. W. P. Oborn, Marion, Ohio------ 175
42. W. E. Abby, Hawarden, Iowa---- 125
43. E. S. Mayes, Jr., Springfield, Ky. 105
44. J. M. Downing, Lexington, Ky--- 75
45. C. T. Downing, Lexington, Ky--- 40
46. T. L. Youtis---------- 38
47. C. E Tate---------- 39
48 W P Oborn---------- 39
49. B. F. Robison, Lancaster, Ky--- 45
50. McKee Bros. ---------- 40

The J. M. Sheehan Poland Sale.

On February 24th, at Stuart, Iowa, J. M. Sheehan sold forty-five head of Poland China sows at an average of $47.07. There were no high prices paid, but it was a good even sale from beginning to end. Sows bred to King Wonder were in good demand, as were also daughters of this same boar. Spring gilts sired by King Wonder topped the sale. Col. H. S. Duncan cried the sale. We list those selling for $40 and above:

1. Patrick Cullen, Stuart, Iowa-$67.00
2. Patrick Cullen ---------- 60.00
3. James McCune, Cummings, Ia. 62.00
4. Geo. Mock, Stuart, Iowa------ 51.00
5. H. L. Marsh, Dexter, Iowa---- 59.00
6. John Nolan, Dexter, Iowa---- 50.00
7. Patrick Leyden, Stuart, Iowa- 49.00
8. Patrick Cullen ---------- 51.00
9. Bert Oaks, Stuart, Iowa------ 54.00
10. James Sheehan, Greenfield, Ia- 49.00
11. Patrick Leyden ---------- 59.00
13. J. J. McGinnis, Stuart, Iowa-- 41.00
12. James Sheehan ---------- 43.00
14. John Nolan ---------- 41.00
15. O. W. Simmons, Guthrie Center, Iowa ---------- 47.50
20. Frank Roberts, Earlham, Iowa 85.00
21. John Nolan ---------- 42.50
22. W. M. Shrader, Stuart, Iowa-- 82.50
23. Wm. Scar, Earlham, Iowa---- 47.50
24. O. W. Simmons---------- 60.00
25. Harry McKee, Stuart, Iowa--- 42.50
28. John Nolan ---------- 45.00
33. Jno. McCoy, Stuart, Iowa------ 52.50
32. O. W. Simmons---------- 52.50
30. Chester Jones, Stuart, Iowa-- 40.00
35. Jas. McCune ---------- 40.00
36. C. W. Humerick, Atlantic, Ia-- 42.50
38. I. W. Womboldt, Stuart, Ia--- 50.00
40. I. W. Womboldt ---------- 50.00
46. C. W. Humerick---------- 60.00

John Truax & Son's Duroc Sale.

On Monday, March 3d, the above named gentlemen held a most successful sale. The offering was a credit to good hog men. The attendance was large and bidding spirited. Colonels Igleheart and Irwin done the selling most satisfactorily. Below is a list of buyers and prices:

1. Thos. Johnson, Columbus, Ohio.$150
2. Thos. Johnson ---------- 180
3. M. E. Merfield & Son, Greene, Ia. 100
4. W. H. Myers, Greentown, Ind- 60
5. C. G. Ballon, Toledo, Ohio------ 180
6. John W. Rice & Son, Winchester, La. ---------- 32
7. D. E. Shenick, Indianapolis, Ind. 92
8. Thos. Johnson ---------- 72
9. A. J. McLaughlin & Co., Pleasantville, Ohio ---------- 85
10. J. W. Storm, Seville, Ohio------ 91
11. C. A. Kesabeth, Fostoria, Ohio- 59
12. Chas. L. Lyman, Maroa, Ill---- 61
13. John Baum, Sycamore, Ohio---- 50
14. L. E. Houser, Garrett, Ind------ 62
15. Thos. Johnson ---------- 70
16. C. J. McLaughlin---------- 62
17. Miller & LaRue, Hodgensville, Ky. ---------- 76
18. L. C. Flack, Fostoria, Ohio---- 54
19. Chas. F. Sprague, Lima, Ohio-- 51
20. Wright & Meek, Finley, Ohio--- 64
21. Thos. Johnson ---------- 77
22. W. J. Leisure, Upper Sandusky, Ohio ---------- 46
23. Chas. Lyman ---------- 86
24. C. G. Ballon---------- 40
25. Wm. Stafford, Haskins, Ohio--- 60
27. Henry Swirtz, Crestline, Ohio-- 40
28. Thos. Johnson ---------- 76
30. Jess Andrews, West Point, Ind. 117
31. Sikes Bros., Sikeston, Mo------ 81
32. E. J. Bieth, Upper Sandusky, O. 47
33. Thos. Johnson ---------- 71
34. H. J. Croff, Sycamore, Ohio---- 44
35. Thos. Johnson ---------- 63
36. Sikes Bros. ---------- 47
37. Sol Mitchell, Burgeon, Ohio---- 50
38. Sikes Bros. ---------- 50
39. Jess Andrews ---------- 39
40. C. E. Sherman, Fostoria, Ohio- 47
41. M. R. Shafer, Bucyrus, Ohio--- 48
42. M. R. Shafer---------- 49
43. Thos. Johnson ---------- 67
44. S. Dutcher, Sycamore, Ohio---- 48
45. A. C. Walden, Upper Sandusky, Ohio ---------- 43
46. Roger & Rowe, Upper Sandusky, Ohio ---------- 56
48. J. A. Housberger, Sycamore, O. 30
49. Thos. Johnson ---------- 33
52. Richard Walters ---------- 23
54. John H. Williams, Pembroke, Ky. ---------- 161

Limestone Valley Farm's Jack and Jennet Sale.

The thirty-fifth annual sale of jacks and jennets held by L. M. Monsees & Sons, Smithton, Mo., on March 4th, goes on record as another successful Limestone Valley Farm sale. Monsees & Sons did not have any aged jacks by their champion stud jacks and as a result no sensational prices were paid, the top being $1,540 for the six-year-old jack, Buster Mammoth, a grandson of the old champion, Limestone Mammoth. Geo. Finley, Nelson, Mo., was the buyer. The top of jennets was $850, at which price James Bray, Waverly, Mo., secured Belle of Waverly, a granddaughter of Limestone Mammoth, in foal to the champion, Orphan Boy. The first ten jacks sold at a general average of $1,088 and the twenty top jacks at an average of $948.25. The full thirty-five head of jacks and twenty head of jennets were sold as advertised and every buyer got full value for his money, as is the case in all Limestone Valley Farm sales. There were the usual number of visitors from a distance, but as the list of sales shows the stock went to cornbelt states, Kansas taking more than any state outside of Missouri. Leaving out the two top jacks of the 1912 sale this year's sale exceeds the general averages made in 1912. Colonels Harriman and Sparks did excellent work on the block and were assisted by an able corps of assistants. The appended list of sales tells the story:

Buster Mammoth, three years; Geo. Finley, Nelson, Mo--------$1,540
Dick Moore, three years; A. C. Finn & Son, Salem, Ill--------- 1,280
John Stypes, six years; R. R. Hind, Anna, Ill---------- 1,200
Monsees' Monster, four years; Lindsey & Towne, Waverly, Kan. 1,200
Prospect, three years; Peterson Bros., Waverly, Neb---------- 770
Empire Jr., six years; D. A. Crow, Tulia, Texas ---------- 905
High Style Big Boy, four years; Roy James, Rossville, Kan----- 1,230
Gold Digger 2d, five years; J. W. Walker, Wanimaker, Mo------- 1,110
Jake Link, three years; C. O. Palmer, Benn, Mo---------- 715
Merchant Boy, four years; John Boydston, Centerville, Kan----- 855
Chiefburg, four years; H. T. Shaw, Summerhill, Ill. ---------- 520
Jamison Jumbo, two years; A. C. Finn & Son---------- 820
Poss Krueger, eight years; G. C. Roan, La Plata, Mo---------- 350
Col. Walker, five years; Beal Green, Greenwood, Mo---------- 800
Prince Warrior 3d, five years; C. B. Mahon, Silver Lake, Kan---- 875
Waldhime Chief, five years; Clyde Hussey, Glasco, Kan---------- 625
Belmont, nine years; C. B. Mahon 800
Black Sampson, four years; C. M. Moore, Fortuna, Mo---------- 375
Richman Jr., four years; H. D. Dow, Sedalia, Mo---------- 250
Big Tom, six years; J. E. Jones, Bend, Mo. ---------- 250
Hutton, four years; C. M. Moore-- 235
Constitution, four years; C. B. Mahon ---------- 400
Ben King, six years; Geo. Gunsing, Concordia, Mo---------- 225
Lion Clermont, one year; J. T. Veach, Harrodsburg, Ky------- 500
Prince Morgan, two years; Geo. W. Wagner, Lamont, Mo------- 155
Yearling; Geo. Gunsing ---------- 160
Trusdale Jr., one year; W. A. Terry, Cave City, Ky---------- 105
Prince Jumbo, two years; A. L. Pully, Tipton, Mo---------- 135
Prince Roy, two years; G. C. Roan, La Plata, Mo---------- 340
John Elmer, six years; G. B. Mahon ---------- 1,110
King Hill Boyd, six years; A. C. Dean, Nevada, Mo---------- 390
Whiteoak Chief, four years; A. C. Finn, Salem, Ill---------- 885
Redoak Mammoth, four years; B. R. McClure, Hughsville, Mo---- 760
Honest John, six years; G. C. Roan 345
Brown's Jumbo, one year; G. C. Roan ---------- 965

JENNETS.

Belle of Waverly 2d, six years; James Bray, Waverly, Mo------ 850
Lady George 3d, three years; J. L. Monsees, Smithton, Mo------- 135
Miss Vic, six years; Wallace McClure, Hughsville, Mo---------- 225
Fairview Maid, seven years; H. T. Shaw, Summerhill, Ill---------- 170
Lady Nelson, ten years; F. A. Barney, Silver Lake, Kan------ 220
Belle of Waverly, twelve years; F. A. Barney ---------- 250
Black Ida 2d, one year; Jas. A. Houchin, Jefferson City, Mo---- 130
Fanny Jumbo, eleven years, and jennet colt; Walter McClure--- 190
Jack colt; Jas. A. Houchin---------- 130
Fannie Jumbo 2d, one year; F. M. Lorimer, Olathe, Kan---------- 400
Black Mammoth Jin, thirteen years, and jennet colt; H. T. Shaw ---------- 175
Mammoth Girl, one year; J. L. Monsees ---------- 530
Kate Shumate 2d, one year; J. L. Monsees ---------- 300
Miss Lion, four years, and jack colt; H. T. Shaw---------- 400
Miss Lion 2d, and jack colt; H. Schwarzoock, Springfield, Minn. 330
Jack colt; Jas. A. Houchin------ 325
Lady Bess M., six years, and jennet colt; H. T. Shaw---------- 180
Miss Neer, eight years; W. R. Dye, Everton, Mo---------- 175
Lady Kash, six years; Jas. A. Houchin ---------- 135
Black Fan, seven years, and jennet colt; F. A. Barney---------- 110
Jennet colt; J. L. Monsees------- 175
Miss Walker 2d, eleven years; W. R. Dye ---------- 265

SUMMARY.

35 jacks -------$23,180; aver----$662.28
20 jennets ----- 6,015; aver---- 300.75

Five stallions sold for $975. Total sales, $30,170.

The Malvern Bull Sale.

On the morning of March 8th, at Malvern, Iowa, Geo. H. White and I. J. Swayne made a sale of seventeen bulls and they were disposed of at an average of $205, the top being the old herd bull, Best of Goods, that Mr. White included at the last minute. He went to Lyman T. Shugart, Council Bluffs, Ia., at $925. The yearling bull, Sultan's Goods, a son of Best of Goods and out of a daughter of Whitehall Sultan, was purchased by H. P. Steele, Kingsley, Iowa, at $730, and both of these bulls were splendid bargains. Marion Jenkins, Brayton, Iowa, also got a good young bull in Roan Goods at $275, and there were a number of other good young bulls in the sale that sold worth the money. The demand for good bulls here was not equal to the supply, there being many present from Nebraska, Missouri, South Dakota and all over Iowa, and quite a few went away without getting what they wanted. Carey M. Jones cried the sale. Below we list those selling for $100 and above:

Best of Goods, calved April, 1906; Lyman T. Shugart, Council Bluffs, Iowa ---------- $925
Sultan's Goods, calved October, 1911; H. P. Steele, Kingsley, Iowa----- 730
Golden Goods, calved April, 1912; A. Greenwood, Albion, Neb---------- 195
White Rock, calved March, 1912; W. G. Gay, Tabor, Iowa---------- 130
Roan Goods, calved December, 1911; Marion Jenkins, Brayton, Iowa---- 275
Good Consul, calved May, 1912; Jesse Hummel, Hastings, Iowa-------- 150
Roan Star, calved May, 1912; M. M. Wise, Villisca, Iowa---------- 100
Royal Marshall, calved June, 1912; August A. Johnson, Stanton, Ia--- 130
Golden Hampton 2d, calved March, 1910; Will Henn, Denver, Colo---- 135
Gem's Prince, calved April, 1912; R. W. McMullen, Henderson, Iowa---- 125
Bull, calved April, 1912; Will Cramer, Emerson, Iowa---------- 120
Bull, calved April, 1912; G. W. Shurbon, Randolph, Iowa--------- 135
Bull, calved May, 1912; A. Greenwood ---------- 100
Bull, calved April, 1912; R. S. Hillyer, Imogene, Iowa---------- 100

Meith's Short-horn and Poland Sale.

One of the nicest sales of the season, everything considered, was the sale of Poland Chinas and Short-horns made by A. L. Meith, Cairo, Neb., on March 5th. There was quite a good local as well as a good outside attendance and the sale was a very satisfactory one to the sellers as well as the buyers. The cattle were too thin to sell high and many of the younger ones were not big enough, owing to the fact that there has been no pasture in that section of the state for the past two or three years, and while the average may not look high, yet condition of the offering taken into consideration, it was very good. The Poland Chinas were also a bit too small for the same reasons as the Short-horns, but they were eagerly grabbed up at an average of $45 per head. A. L. Heywood, also of Cairo, had a consignment of nine head of Poland Chinas in this sale that averaged $38 per head.

SHORT-HORNS.

Royal Gloster 2d, calved 1909; Irvin E. Wilson, Belvidere, Neb--$150.00
Star Missie, calved 1912; E. E. Veeder, Cairo, Neb---------- 127.50
Favorite, calved 1911; Albert O'Neal, Bayard, Neb---------- 110.00

COWS.

Eunice A., calved 1909; Levi Hedgelin, Boelus, Neb---------- 105.00
Royal Josephine, calved 1905; J. E. Cox, Cairo, Neb---------- 100.00
Elvira 2d, calved 1909; P. J. Heumont, Broken Bow, Neb---- 102.50
Dora, calved 1910; E. E. Veeder- 120.00
Fancy, calved 1910; E. E. Lint, Shelton, Neb. ---------- 115.00
Cedar Blossom 2d, calved 1905; John Russian, Cairo, Neb----- 107.50
Red Rose, calved 1911; Wm. Fagan & Sons, Abbott, Neb--------- 100.00
Myrtle 14th, calved 1910; Wm. Fagan & Sons---------- 110.00

POLAND CHINAS.

1. O. O. Jones, York, Neb------$ 52.50
2. Emil Wegner, Grand Island, Neb. ---------- 61.00
3. B. F. Scott, Shelton, Neb----- 60.00
4. J. E. Cox, Cairo, Neb--------- 51.00
5. J. E. Cox---------- 60.00
6. J. E. Cox---------- 58.00
7. J. E. Cox---------- 52.50
8. J. E. Cox---------- 42.50
9. J. E. Cox---------- 59.00
10. J. E. Cox---------- 51.00

The illustration shown herewith is a good likeness of one of the young Short-horn females that will be included in the John Ohmstede Short-horn and Polled Durham sale at Guide Rock, Neb., on March 19th. The offering is a very choice one and all of desirable young stuff. Be sure and attend. Mention this paper when writing.

A Planter That Almost Thinks!

With this Rock Island No. 1 Corn Planter you can actually change the number of grains dropped without stopping, without even moving out of the seat! Can plant extra kernels where soil is extra rich; plant less kernels where soil is thin. Gets a lot more corn and wastes no seed.

It plants just as you want. And all rows straight, regardless of horses' speed. Instantly changed from edge to flat drop or back again. Has positive trouble-proof clutch. Special flexible connection to front frame. Adjustable seat. Adjustable width. Discs or runners. 30 or 36-inch concave, flat or open wheels. Now used by 10,000 farmers. It is no experiment, but time-tried, proven and guaranteed. Costs no more than commonplace planters, but worth a lot more.

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Write!

Send postal for latest Corn Planter Book and we will tell you the nearest place where you can see this wonderful planter. Free copy of Prof. Holden's great book on Corn Growing will be included if you write now.

Rock Island Plow Co.
184 A Second Ave. Rock Island, Ill.

Harness & Saddles

At Wholesale Prices--Freight Prepaid

Save big money buying direct from the maker. Here is one item: Halter, 1½ inch wide, extra heavy, three copper rivets each lap, $1.50 retail, our price $1.00.

FREE Simply send name for big free illustrated money-saving catalog. We prepay freight and guarantee goods for two years. Write today.

H. & M. HARNESS SHOP, Dept. 76 Stock Yards, St. Joseph, Mo.

Northfield Well Curb

Keeps water clean. Insures good health. Fits any well. Easy to install in any soil. Guaranteed not to rust or taint water. Write direct to factory.
Northfield Iron Co., 118 Water St., Northfield, Minnesota

11.	A. P. Johnson, Cairo, Neb	51.00
12.	A. E. Hauk, Wood River, Neb.	52.50
13.	J. E. Cox	42.00
14.	J. E. Cox	65.00
15.	Irvin E. Wilson, Belvidere, Neb.	51.00
16.	A. Roesler, Wilcox, Neb	44.00
17.	J. E. Cox	44.00
18.	Emil Wegner	50.00
19.	John Van Winkle, Cairo, Neb.	43.00
20.	E. F. Bahr, Wood River, Neb.	55.00
23.	J. E. Cox	41.00
27.	E. F. Bahr	40.00
37.	J. E. Cox	40.00
39.	J. E. Cox	40.00

A. L. HEYWOOD'S CONSIGNMENT.

41.	A. C. Jensen, Wolbach, Neb	51.00
42.	A. P. Johnson	50.00
43.	Chas. Baade, Wood River, Neb.	40.00
44.	Herman Johansen, Loup City, Neb.	42.00

SUMMARY.

40 Short-horns --$3,600; aver----$90.00
38 Poland Chinas- 1,710; aver---- 45.00

MR. HEYWOOD'S CONSIGNMENT.

9 Poland Chinas-- 342; aver---- 38.00

The Pederson Poland China Sale.

One of the good Poland China sales of the season was that of C. M. Pederson at Dunlap, Iowa, on February 28th, and he sold forty head of sows at an average of $49.68. The offering was presented in nice condition and it was a credit to Mr. Pederson. While no high prices were paid, yet it was a good, even run and every sow was a bargain at the price paid. Three fall sows with litters of pigs about a week old were also sold at $66, $69 and $73 each. Below is a list of those selling for $45 and over. Col. H. S. Duncan cried the sale:

1.	A. Denison, Dunlap, Iowa	$58.00
2.	Jackson & Hill, Jefferson, Ia.	52.50
11.	Jackson & Hill	46.00
3.	Bloom Bros., Dow City, Iowa	60.00
4.	Bloom Bros.	62.00
8.	Bloom Bros.	62.50
5.	Frank Rainier, Logan, Iowa	50.00
6.	Clem Hawn, Dunlap, Iowa	47.00
7.	F. Kessler, Dunlap, Iowa	55.00
9.	W. A. Hale, Onawa, Iowa	68.00
10.	C. A. Reed, Dunlap, Iowa	56.00
12.	F. L. Scott, Woodbine, Iowa	60.00
13.	S. W. Thompson, Dunlap, Ia.	70.00
14.	I. W. Everson, Dunlap, Iowa	45.00
15.	H. G. Osmond, Diagonal, Iowa	47.50
16.	P. H. Davelstein, Dunlap, Ia.	49.00
17.	J. W. Fouts, Dunlap, Iowa	48.00
19.	L. Becker, Dunlap, Iowa	69.00
24.	Earl Weiland, Deloit, Iowa	56.00
26.	R. Smith, Dunlap, Iowa	47.50
29.	S. Green, Woodbine, Iowa	52.00
30.	S. Green	52.00
31.	Boyd Morgan, Allerton, Iowa	65.00
35.	L. K. Moore, Dunlap, Iowa	50.00

The Hunt & Weberg Duroc Sale.

The sale of Hunt & Weberg at Denison, Iowa, on March 4th, was quite well attended and they sold fifty-five head of sows at an average of $40. The top of the sale was Belle Special, No. 1 of the catalog, and she went to O. S. Larson at $145. Mr. Weberg had a little trouble in his herd in the early fall and had to let up on the feed, and the younger things therefore were not large. However, everything went at satisfactory prices. Colonel Kraschel cried the sale. Below we list those selling for $40 and above:

1.	O. S. Larson, Logan, Iowa	$145
3.	Henry Dohse, West Side, Iowa	40
4.	Henry Dohse	50
8.	R. T. White, West Side, Iowa	52
9.	Fred Swan, Missouri Valley, Ia.	55
10.	Fred Swan	60
11.	E. E. Handley, Carroll, Iowa	49
17.	W. H. Seddons, Persia, Iowa	40
19.	Claud McDonald, Denison, Iowa	40
31.	J. H. Shrader, Arcadia, Iowa	49
32.	J. W. Kent, Auburn, Iowa	45
33.	James Killeen, West Side, Iowa	50
35.	James Killeen	41
36.	Roy Davie, Dunlap, Iowa	53
38.	E. W. Goodwin, Mapleton, Iowa	49
39.	Geo. T. Gillam, Brandon, Iowa	44
40.	John Tupper, Woodbine, Iowa	43
41.	Ray Davie	44
43.	James Killeen	40
42.	James Killeen	43
44.	R. T. White	40
45.	James Killeen	45
46.	Jacob Weiss, Denison, Iowa	45

Lingford's Poland China Sale.

W. A. Lingford, Dannebrog, Neb., made one of the very good Poland China sales of the season at Grand Island, Neb., on February 13th. As usual, a very good offering was put up, and nearly all were taken by breeders. Morris Fowler, Arcadia, Neb., and one of the most enterprising Poland China breeders of the state, topped the sale on Lot 4 at $110. Joshua Morgan bought the litter sister at $75. The forty-eight head averaged $48 per head. Those selling for $40 or more are listed. The sale was conducted by Z. S. Branson and was one of the best conducted of his many good ones:

1.	Chris Miller, St. Libory, Neb.	$ 82.00
4.	Morris Fowler, Arcadia, Neb.	110.00
5.	Joshua Morgan, Hardy, Neb	75.00
6.	W. T. Judy, Kearney, Neb	52.00
7.	A. M. Joy, Herman, Neb	50.00
8.	O. J. McCullough, Clarks, Neb.	61.00
9.	Wm. Nagle, Grand Ridge, Ill.	65.00
10.	C. B. Powers, Aurora, Neb	46.00
12.	F. Loeshi, Grand Island, Neb.	46.00
13.	Herman Johansen, Loup City, Neb.	56.00
14.	Chris Miller	51.00
15.	A. L. Meith, Cairo, Neb	49.00
18.	Mike Castle, St. Libory, Neb.	44.00
19.	Mike Castle	44.00
21.	Hans Guizer, Grand Island, Neb.	44.00
23.	H. O. Williamson, Herman, Neb.	70.00
25.	John Hecker, Sweetwater, Neb.	50.00
25.	Jno. Hecker, Sweetwater, Neb.	50.00
26.	Lee Dauchey, Stockville, Neb.	52.50
27.	G. S. Rouse, Alda, Neb	47.50
30.	Hans Gulzow	60.00
31.	Henry Blume, Grand Island, Neb.	65.00
32.	L. F. Reilly, St. Paul, Neb	54.00
34.	T. Knox, Grand Island, Neb.	51.00
38.	G. L. Rouse, Jr., Grand Island, Neb.	50.00
39.	John Hecker	46.00
42.	Herman Johansen	50.00
45.	W. S. Jones, Wood River, Neb.	50.00
48.	Henry Blume	45.00

John Truax & Son's Duroc Sale.

On March 3d the above gentlemen sold a draft of Durocs at their farm near Sycamore, Ohio, that any breeder could be proud to offer. Colonels Igleheart and Irwin did the selling in a most satisfactory manner. Below is a list of buyers and prices:

1.	Thos. Johnson, Columbus, Ohio	$150
2.	Thos. Johnson	180
3.	M. E. Merfeld, Greene, Iowa	100
4.	W. H. Myers, Greentown, Ind.	60
5.	C. G. Ballon, Toledo, Ohio	130
6.	J. W. Rice, Winchester, Va.	32
7.	D. E. Sherrick, Indianapolis, Ind.	92
8.	Thos. Johnson	72
9.	C. J. McLaughlin, Pleasantville, Ohio	85
10.	J. W. Storm, Seville, Ohio	91
11.	C. H. Kisobeth, Fostoria, Ohio	59
12.	Chas. L. Lyman, Maroa, Ill.	61
13.	John Baum, Sycamore, Ohio	50
14.	L. E. Housier, Garrett, Ind.	62
15.	Thos. Johnson	70
16.	C. J. McLaughlin	62
17.	Miller & Larue, Hodgensville, Ky.	76
18.	L. C. Flack, Fostoria, Ohio	54
19.	Chas. F. Sprague, Lima, Ohio	51
20.	Wright & Meek, Ada, Ohio	63
21.	Thos. Johnson	77
22.	W. J. Blaser, Upper Sandusky, Ohio	46
23.	Chas. L. Lyman	86
24.	C. G. Ballon	40
26.	Wm. Spafford, Haskins, Ohio	60
27.	Henry Swertz, Crestline, Ohio	40
28.	Thos. Johnson	76
30.	Jess Andrews, West Point, Ind.	117
31.	Sikes Bros., Sikeston, Mo	81
33.	Thos. Johnson	71
34.	H. J. Cross, Sycamore, Ohio	44
35.	Thos. Johnson	63
36.	Sikes Bros.	50
37.	Carl Mitchell	47
38.	Sikes Bros.	50
40.	C. Sherman, Fostoria, Ohio	47
41.	M. R. Scheifer, Bucyrus, Ohio	48
42.	M. R. Scheifer	49
43.	Thos. Johnson	67
44.	D. Siverlim, Sycamore, Ohio	48
45.	A. C. Walton, Upper Sandusky, Ohio	43
46.	Rogers & Pool, Upper Sandusky, Ohio	56
48.	J. Housberger, Sycamore, Ohio	30
49.	Thos. Johnson	33
52.	Richard Walters, Forest, Ohio	22
53.	M. Guess, New Riegel, Ohio	19
54.	John Williams, Pembroke, Ky.	161
55.	John Hufford, Sycamore, Ohio	41

Beef Making in the Future.

By J. A. Evvard, Iowa Experiment Station.

WE ARE on the border edge of a new beef-making period. It is now up to us to cut all the costs of production to their mimimum. This is to be done largely by refining the operation, growing our own cattle of the best possible beef-making breeds and finishing them out as baby beeves. We will grow alfalfa and clover because they are premier cattle foods as well as most superior soil restorers. We should bear in mind that the corn belt is ideal for beef production, that we are in the center of a cheap food producing region, and that on all sides of us the best parts of other states touch. We can also grow alfalfa and clover and market such feed stuffs to more advantage through the live stock than by selling them direct from the farm. Beef finishing and growing tend to ultimately settle in those sections of abundant cheap food.

What is the value of an acre of cornstalks if preserved in the form of silage? Our figures secured by actual trial show that when clover hay is worth $10 as a cattle food corn silage is practically worth two-fifths as much or $4. Last year with silage costing $3.20 a ton the clover hay would had to have been bought at $7.66 to have been equally as efficient. However, assuming silage to be two-fifths as valuable as clover, which is less than the figures show, we find that ten tons of corn silage was worth at the rate of $4 per ton or $40.

Deducting the charges against which were $26.30 this acre of silage or ten tons we have left for the cornstalks a value of $13.70 an acre and if clover hay is worth $10 a ton an acre of cornstalks from fifty-bushel corn land is easily worth this $13.70. Does it not pay to gather and put into silo a part of them?

To determine the comparative value of silage and clover for two-year old cattle and furthermore to discover the best methods of feeding silage we have carried on quite comprehensive experiments at the Iowa Experiment Station the past few years. One trial, especially that of 1911-12 in which five lots of ten steers each were fed, expresses typically the general results of our experience. That corn silage is a most acceptable and efficient fattening steer feed there is no doubt.

The silage-fed cattle, without a single exception, returned greater profit than where clover was fed as the lone roughage. By using silage the gains were cheapened and the profit per steer increased.

Where both clover and silage was allowed as compared to either clover or silage alone, the steers being put upon a full feed in forty days, tne advantages are slightly in favor of the clover-silage combination. Inasmuch as it is fundamentally important that we grow legumes such as clover or alfalfa upon the farm, we are glad indeed that the figures show that both the clover and silage can be used to advantage when fed in combination. Alfalfa should give slightly better results than clover because of its higher protein content and better average quality. In the absence of a legume hay, experience has taught us that some oats straw may be utilized to advantage. Steers getting a full feed of silage, however, will consume very little dry roughage be it a legume or other roughage.

How much silage shall we feed and how shall we distribute it during the feeding period? Our experience clearly shows that steers getting silage should be given a very heavy feed from the very beginning of the fattening period. To induce the consumption of a maximum amount of silage early in the feeding game the corn can be somewhat limited. We compared different methods of feeding silage, one lot being put on a full feed of grain the first forty days, the other two in ninety days. The first lot was allowed all the corn and silage they would eat according to appetite throughout the entire period. They made a little more rapid gain than the other lots, but a smaller profit, namely, $22.03 per steer. Where silage was pushed heavily the first ninety days and both silage and corn allowed according to appetito the last sixty days the profits were $22.45. The last lot put on a full feed of grain in ninety days, the corn being heavily pushed and the silage limited showed a still greater profit, or $23.46, in spite of the increased cost of corn which mounted from fifty to fifty-one the first two, to fifty-seven and sixty-five cents, respectively, the last two months. If the corn had continued at the same average price, as during the first three months of the feeding period or fifty-two cents, the lots fed heavily on silage and light on corn early in the period and heavy on corn and light on silage at the finish would have clearly outclassed the ordinary method of full feeding both silage and corn from the beginning.

The steer will eat too much of the bulky, watery silage at the finish of the fattening period. When on hay the steer naturally comes down from twenty pounds the first month to four pounds the last month, the grain going up accordingly. In this case the grain tastes better than the hay. With silage, however, the steer instead of going back on the silage to the extent of 80 per cent eats about fifteen to twenty pounds at the finish as compared to fifty at the beginning, or a decrease of only 60 to 70 per cent; he likes silage too well. As the capacity becomes limited and the gains more concentrated, thus requiring more dry matter per unit increase, the object should be to keep the feed just a little bit better than the cattle, which merely means that the grain should form a steadily increasing proportion of the ration as the animal puts on the marketable bloom.

The shrinkage on silage-fed cattle is not ordinarily greater than on dry-fed ones. Our shrinkage trials clearly indicate that cattle receiving both silage and dry roughness during the feeding period shrink less than those on either dry feed or silage alone. The clover cattle in the winter of 1911-12 shrank more than any of the silage lots, or 2.669 per cent, while those getting both clover and silage shrank the least or 1.617 per cent. The silage lots ranged from 2.307 to 2.568 per cent. In 1910-11 the average shrink for the three silage-fed lots was less than the clover, while the two lots receiving both silage and clover shrank respectively 1.504 and 1.989 per cent as compared to 2.548 per cent for clover and 2.731 per cent for silage. In shipping silage-fed steers we make it a point to keep some silage in the ration until the steers are shipped. We maintain the former taste of the ration as nearly as possible decreasing the supplement somewhat, however, and adding some oats and dry hay, preferably timothy, together with oat straw if availabe. The corn feed is decreased only sufficiently to allow for the consumption of some oats, say one-fourth to one-third of the ration. By following these precautions our silage-fed cattle have shipped, filled and sold well. In the spring of 1912 not a single steer showed a tendency to laxativeness until the yards were reached.—[Before Corn-Belt Meat Producers' Association.

SHEEP

HEATHERDALE STOCK FARM. SHROPSHIRE RAMS

20 YEARLING and 2-year-old rams sired by imported rams and out of imported bred ewes at very low prices if sold soon. Mention Homestead and write me at once. Address
H. H. REED, - MARENGO, IOWA.

REGISTERED Shropshire rams and ewes of the best breeding and quality. Prices reasonable
Willard Miller, R. F. D. No. 2, Anita, Iowa

WE now offer 30 head of registered females and 8 May Rose bulls, 5 of them ready for service.
WILCOX & STUBBS CO., Des Moines, Ia.

CLUB RAISERS WANTED

I want a local subscription representative in each town in Iowa, Illinois and Nebraska, where I do not have a solicitor at present, to take subscriptions for The Homestead during the winter months. An energetic person can make excellent money working for me.

A Justice of Peace and farmer made $347.00 during December, January, February and March last year with practically no effort on his part. Just as he happened to meet his friends he asked them to subscribe.

An old soldier has earned $386.00 in the last year and has not been away from his blacksmith shop to solicit subscriptions.

A lady who had sold extracts all her life took up our work last winter and has made over $300.00 this year without leaving her home town.

It requires no particular ability to become a subscription representative. There is no reason why you should not make from $300.00 to $600.00 this winter, looking after my subscription interests in your locality.

If you prefer premiums to cash commissions, write us for a list of the nice presents we can make you for raising a club in your neighborhood. We have everything useful to give away from egg beaters to sewing machines and gold watches. Address

James M. Pierce, Publisher Homestead, Des Moines, Ia.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Mar. 25, White Bros., Perry, Iowa.
Apr. 8, Dispersion sale, Walter Roberts Estate, Atlantic, Iowa.
Apr. 9, Otto V. Battles, Maquoketa, Ia.
Apr. 16, Chas. Escher & Son, Botna, Ia.
Apr. 30, Association spring bull sale, Omaha, Neb.
May 1, Association spring bull sale, Chicago, Ill.
May 2, Association spring bull sale, East St. Louis, Ill.

Short-horn Cattle.

Mar. 25, A. J. Ryden, C. T. Nelson and H. G. Bowers, Galesburg, Ill.
Mar. 26, Rigg & Glasgow, Galesburg, Ill.
Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 4, D. R. Hanna, Chicago, Ill.
Apr. 10, A. C. Shallenberger, Alma, Neb.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Reese & Son, Pilger, Neb. (sale at South Omaha, Neb.)

Hereford Cattle.

Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Holstein-Friesian Cattle.

Mar. 26, A. J. Podendorf, Logan, Iowa.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Mar. 24, Smith & Rodgers, Springfield, O.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

A. H. Gerot, Riverside, Iowa, has three first-class imported Percheron stallions that he will sell at snap prices to quick buyers. His advertisement appears elsewhere in this issue.

A. M. Foster, Rushville, Ill., is advertising O. I. C. swine elsewhere in this issue. A sow from his herd produced the champion middle-weight barrow at the last International. He has fall and spring pigs for sale.

C. & C. T. Van Lint, Pella, Iowa, in sending copy for advertisement offering three Short-horn bulls for sale, that appears elsewhere in this issue, write: "The bulls are of the best Scotch breeding and strictly first class."

De Boer and Von Der Ploeg, Pella, Iowa, are breeders of fine fox terrier dogs and their advertisement appears under its proper classification in the poultry department of this issue. Write them for prices or other information.

E. L. Beard & Son, Decorah, Iowa, announce for sale in their advertisement found elsewhere in this issue, a registered Belgian stallion coming three years old and weighing 1,850 pounds. They also have two young two-year-old registered Belgian stallions for sale.

C. C. Mills, Dallas Center, Iowa, will sell seven French draft horses and a Percheron stallion at his farm five miles from Dallas Center on March 19th. These horses are all black and are big, heavy-boned good ones. Arrange to attend this sale. See the advertisement on another page.

Frank J. Clouss, Barnum, Iowa, breeder of Red Polled cattle, whose advertisement appears elsewhere in this issue, writes that he still has a few good farmers' bulls at farmers' prices, also two herd headers that are good ones. He adds, "I also have a few open heifers and some bred to the 2,200-pound bull, Ruperta's Goods, for sale."

At the sale pavilion, Lexington, Neb., on March 29th, Paul Simmons, Cozad, Neb., will make a dispersion sale of thirty-five head of Red Polled cattle. The offering consists of seven bulls and twenty-seven females. It is an extra lot of choice female stock in fine condition and strong in the blood of famous sires, mated to choice bulls. Send for catalog.

A. J. Podendorf, Logan, Iowa, announces a public sale of Holstein-Friesian cattle for March 26th. As is usual in Mr. Podendorf's sales, this sale will be one of the events of the season. It includes nearly 100 head of cattle, seventy of them being high-grade cows and heifers, fifteen choicely bred recorded bulls and the remainder pure-bred recorded cows and heifers. This is an occasion not often presented to farmers who want to buy cattle particularly suited to farm dairying. Additional information may be obtained by writing to A. J. Podendorf, Logan, Iowa.

Frank D. Nelson, Harlan, Iowa, is offering a two-year-old Duroc Jersey boar, a son of Top Notcher Again, for sale in his advertisement that appears elsewhere in this issue. This hog weighs 800 pounds in breeding condition and is fit to head any herd. For further particulars write Mr. Nelson as above.

No section of the country offers more or better opportunities for the investment of labor and capital than does Wisconsin and none extends a more inviting hand to the homeseeker. In climate, diversity of soil, fruits, forests, water supply, mineral deposits and markets, she presents a combination difficult to equal. Wisconsin's invitation to the homeseeker is based on the fruitfulness of her soil. It responds readily and abundantly to ordinary methods of cultivation. No unusual or experimental farm practices are needed to produce staple crops.

Theo. Martin, Bellevue, Iowa, writes as follows regarding his recent Short-horn sale. "My Short-horn sale was entirely satisfactory and the majority of the offering being calves, the average shows a profit, yet at the price they were decided bargains. My auction business has grown to such proportions that it is necessary for me to engage additional help in order that I can be away from home to take care of it. I am pleased to inform your readers that I am now in position to take care of all the auction business which might come my way. My practical experience in breeding Short-horns and Poland Chinas places me in position to render especially valuable services in sales of these breeds. My charges are very reasonable and I guarantee to please or no pay. I have a number of dates booked for next winter, but still have some very desirable ones left."

Manager J. G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "I am pleased to report that our importation of Shire and Percheron horses that arrived here on February 15th are now fully recovered from their long journey, about a week overdue. They are now ready for sale. We shall take pleasure in showing them to any of your readers who may be interested in a strictly high-class Shire or Percheron stallion. I may say that included in this importation are two yearlings sired by our $10,000 champion Percheron stallion, Intitule, now owned by Samuel Insull, Esq., Chicago, Ill. Advices received from our J. H. Truman state that he shipped our regular March importation on the Minnewaska, sailing from London on March 6th. This shipment will be exclusively Shire and Percheron stallions. Our trade was never better and the demand still continues very strong for high-class stallions." See advertisement in this issue.

One of the handsomest catalogs to reach our office this year is that put out by the Griswold Seed Company, Lincoln, Neb. This firm is a very reliable one which has been in business many years at Lincoln and has made a specialty of field, garden and flower seeds. They have specialized in the production of field seeds of improved variety and have undoubtedly been of great service to the farmers who patronize them. Although they have many different offers that will interest our readers, one of the best, we believe, is their ready quick hog pasture mixture which can be sown early and will be ready for pasture in six or eight weeks and which will be in fine condition during July and August, just when other pastures are dried up. Furthermore, it can be sown in July for fall pasture. Their prices are very reasonable and we recommend that our readers who are interested look into the matter further, addressing the company at Lincoln, Neb.

One of the best implement catalogs that has come to our office is that of the Monmouth Plow Company, Monmouth, Ill., who manufacture plows, drills, harrows, cultivators, spreaders and other farm tools. This firm sells direct from the prices quoted in their catalog and assures quick service, prompt delivery, as well as a square deal with every transaction. For many years the company has quoted freight-prepaid prices in their catalog. Their customers were enabled to know, therefore, just what the implement would cost them laid down at their station. There was no guess work, no chance for being overcharged and no cause for delay. This year the company again quotes freight-prepaid prices and, in addition, in order to give a fair comparison, they give f. o. b. factory prices. This enables the buyer to compare Monmouth goods with others, whether they pay the freight or not. It removes every element of uncertainty. The plan is very unique and serves to further the reputation for a square deal which this company enjoys. An advertisement for them appears elsewhere in this issue.

Taylor & Jones, Williamsville, Ill., write: "Our sales continue good and with our recent importation of stallions and mares we have lots of good horses, Percherons, Belgians and Shires, in our barns for sale. We think if prospective buyers knew the kind of horses we sell for the money and the guarantee we give with each horse, surely they would not buy until they came and inspected our stock. We have thirty head of stallions and quite a number of mares that we want to close out in the next thirty days and anyone wanting a bargain in any of the draft breeds will not be disappointed as to quality and price. Send for our little booklet and we will gladly answer all inquiries. Following is a list of our last week's sales: Two Percherons to Geo. Walls, Edgar county, Illinois; Edw. B. Blair, Sangamon county, Illinois, got a good imported Percheron; Tendick Bros., Logan county, Illinois, selected a good horse; F. M. Branstetter, Audrain county, Missouri, who has been buying horses of us for eight years, came and selected an extra good coming three year old; Laughlin & Eshelman, Lawrence county, Illinois, got a Percheron."

M. G. Arnold & Son, breeders of Poland China swine, Strawberry Point, Ia., write: "Our herd of Poland Chinas are coming through the winter in fine condition. Sales have been very good. However, we have three 260-pound sows sired by Jumbo Ladd and bred for March and April litters to the service of Reubel's Kind, a great yearling, grandson of old A Wonder, which we will price at $40 each. We also have ten April, May and June sows, all safe to the service of Arnold's Expansion for May and June litters. Prices range from $25 to $35. All are good, smooth-coated, stretchy sows. The ten sows due to farrow in May and June are all sired by our 1,000-pound Orange Boy by Big Orange and are extra good values at above prices."

That the man who buys land in Clark county, Wisconsin, and starts to develop a farm is not a pioneer who must go into a new land and work out his destiny unaided and alone is the announcement which the West-Cannon-Bissell Company, of Milwaukee, Wis., is making to all prospective purchasers of its lands in that section. "He has the great University of Wisconsin and other state organizations and institutions back of him. As a citizen of this great state he is entitled to and can readily get the most expert advice and information on all agricultural matters. In fact, these institutions are anxious to get into close touch with the farmers of the state and especially with new settlers in order to influence them to do better farming along lines which will be most profitable for themselves, their communities and the entire state. The state board of immigration, the state board of agriculture, the Wisconsin Live Stock Breeders' Association, the Wisconsin Horticultural Society, the Wisconsin Free Library Commission, the Wisconsin Highway Commission, the state officials and the county organizations and officials all help to smooth the path of the new settler."

Good Hints for Poultry Raisers.

Every reader of this paper could spend a few minutes to mighty good advantage reading the "Hints" on how to prepare young birds, feed fowls and care for eggs for hatching purposes, written by J. W. Myers, president of the Reliable Incubator & Brooder Co., appearing on pages 30, 31 and 32 in the new catalog of that concern for 1913. As an introduction we suggest our readers look up Mr. Myers' advertisement, which appears in the poultry department of this week's issue.

A Simple Self-Raising Gate.

"What makes it raise?" is the question asked when one first sees the self-raising gate being put out by the Peerless Wire Fence Co., Adrian, Mich. A perfectly natural question, as there are no springs or levers to make it raise. The raise is accomplished by the unique construction of the farmer and the tension in the filling. The principle is simple and at the same time is entirely efficient, making a grate free from toggle that is liable to give out and one that will always work and do good service. See advertisement elsewhere in this issue.

A Choice Poland China Herd Boar.

A. Roesler, Wilcox, Neb., has for sale a choice two-year-old Poland China boar. He is sired by Blue Valley Expansion by What's Ex. by Expansion and out of Blue Valley Hadley by Big Hadley and she out of Tecumseh Gold Dust, out of Lady Gold Dust and by Big Tecumseh. This boar is called Blue Valley Wonder 59757 and was bred by Walker & Son, Alexandria, Neb., and is one of the good hogs sent out from this herd. Mr. Roesler would not price this boar if it were so he could be used longer in the herd. He is extra heavy boned, good footed and smooth. A real good kind of a big boar that breeders can use and that will breed well for them, as he is a tried proposition. Address as above and mention this paper. Do this today, as this boar is worth looking after.

Two Good Scotch Bulls for Sale.

Elsewhere in this issue will be found the advertisement of H. B. Harden, Corning, Iowa, who is offering two good young Scotch bulls for sale. One of these is a roan and is a son of that splendid bull, Col. Dalmeny. His dam is Diamond Sunlight by Diamond Rex, and he in turn is a son of Imp. Cock Robin. This bull is a Cruickshank Secret and is the making of a splendid herd bull. This bull was a year old in February and is a very promising young bull. The red bull is Major Boy, a twenty-months-old bull sired by Major, a Bellows-bred bull, and his dam is Miss Bess, a daughter of Bapton Spice. His grandam was that grand good cow, Imp. Roan Bess by the great bull, Star of Morning. If any of our readers want one of these bulls they had better get right on the train and go and see them at once. If you write Mr. Harden kindly mention The Homestead.

The Escher & Son Angus Sale.

On April 16th Chas. Escher & Son, Botna, Iowa, will make their annual sale of Aberdeen Angus cattle at their celebrated Longbranch Farm and they will sell sixty head of the best cattle that have ever gone through a sale ring in this country. They will sell fifty head of cows, unquestionably the best lot that has ever been listed for a sale in this country. Forty-five head of these will be mature females and thirty-five will have calves at side by one of the noted bulls now doing service in this noted herd. Ten of these cows will be imported and five of these will have calves at foot. They are also selling ten very choice young bulls, many of which will be herd-heading propositions. Never before has this firm listed such a high-class offering as they will sell in this sale, and we will go farther than that and say no such offering of Angus cattle has been made in this country. If you want to be sure to get a catalog drop Chas. Escher a postal card and request your name to be placed on their list for a catalog and it will come just as soon as it is printed. Kindly mention this paper when asking for it.

A Correction.

J. M. Peery's bred sow sale was in some unexplainable manner reported in our February 27th issue as a Duroc Jersey sale, when he actually sold Poland Chinas and has not been a raiser of Duroc Jerseys at all. His was one of the good sales of this section and credit ought to be given the excellent breed he is raising.

Harding Pays the Freight.

F. W. Harding, president of Anoka Farms, Waukesha, Wis., announces in the advertisement elsewhere in this issue the forthcoming sale at Waukesha on April 2d, that if any buyer purchases ten head he will pay the freight to any point in North America. Write for a copy of the sale catalog to Anoka Farms, Waukesha, Wis., mentioning The Homestead.

Big Live Stock Shipment.

A shipment of 117 head of cattle left Ravenna, Ohio, this week for California. There were twenty-four head of Short-horns, the balance, with the exception of one Angus bull, being Holsteins and Jerseys. These cattle were purchased mainly under the direction of Mgr. John Garden, of Cottage Hill Farm, and are consigned to several different parties in California.

The Sayer-Stanton Short-horn Sale.

One hundred head of Short-horn cattle will be offered at Chicago, Ill., Thursday and Friday, April 3d and 4th, by George J. Sayer, McHenry, Ill., and Thos. Stanton, Wheaton, Ill. This sale will follow that of F. W. Harding at Waukesha, Wis., and precede that of D. R. Hanna at Chicago, Ill., so that buyers attending this series of sales will have practically 200 head from which to make selections, the largest number of Short-horns that will be offered in any series of sales this spring. Both Mr. Sayer and Mr. Stanton are sending forward some very attractive things, particulars regarding which will appear in succeeding issues of The Homestead. File your application for a catalog with Thos. Stanton, Wheaton, Ill., mentioning The Homestead, and watch next week's paper for particulars.

E. Z. Russell, Auctioneer.

With this issue of The Homestead we begin the advertisement of E. Z. Russell, Lincoln, Neb., who is branching out in the auctioneer business and solicits the patronage of those who are going to want to employ the services of a well-posted and capable salesman. Mr. Russell is one of the best known live stockmen in the West, having been breeding hogs in that state for the past quarter of a century. He is treasurer of the National Duroc Jersey Association and has held various offices in the state. For twelve years he has been a director in the Nebraska State Fair and he has made seventeen public sales of registered hogs himself. He enjoys a wide acquaintance with the breeders throughout the West and he now comes forward as a live stock auctioneer and solicits the patronage of those who are contemplating making sales the coming fall and winter.

Shires for Export to the United States.

The Isle of Ely & Wisbech (England) Advertiser, Wednesday, February 12, 1913, says: "George Tansley has sold to Trumans' Pioneer Stud Farm, Bushnell, Ill., his five-year-old iron gray stallion, Thunderer Boy 29956, in stud book. This horse, bred by the seller, has proved himself an excellent sire, having some twenty-five colts and fillies now on the farm. His sire is that well-known horse, College Thumper (25087), sold to the Hungarian government for a long price, and his dam is Cheerly by Royal Lincoln (6343). Thunderer Boy has the old Thumper blood, from which horse the stud book has so many distinguished winners recorded. He has excellent conformation, stands erect on the best of feet and joints, is seventeen hands high and has grand movement. Joel Wilson also sold his beautiful mare, Strawberry Queen, for show purposes to the same firm. She, too, is by College Thumper and is correct in movement and has the best legs and feet possible. This mare has very peculiar, yet attractive markings, and will be hard to beat in the show ring. The manager, J. G. Truman, of the Pioneer Stud Farm, was very eager to buy when over here last summer, but Mr. Tansley would not sell then."

Buffalo Pieter Doede 94018.

This bull, as junior champion Holstein bull at the Iowa Dairy Cattle Congress and first-prize junior bull calf at the National Dairy Show, was pronounced by the judges to be "the calf without a fault." He showed wonderful constitution, conformation and quality. Buffalo Pieter Doede was not alone bred for individuality, but carries the blood of several large yearly records. His dam, Christmas Belle Pietertje 96528, made 336,286 pounds of butter from 7,570.4 pounds of milk at two years and two months of age. This record was made four years ago and at that time was a record of considerable merit. The sire of this champion bull, Sir Jewel Parthenea Doede 38639, has sired two cows which have semi-official yearly records. Miss Netherland Artis Parthenea made as a junior five year old 848.875 pounds of butter from 17,629.7 pounds of milk and Chloe Mechthilde 2d's Parthenea as a senior four year old made 833.5 pounds of butter from 18,926.9 pounds of milk. A sister on the dam's side to this remarkable bull, Buffalo Caroline, made 21.406 pounds of butter from 377.2 pounds of milk at two years and one month of age. Buffalo Pieter Doede was bred and exhibited by the Chicago Stock Farms and will be shown in their herd again on the 1913 dairy show circuit. This is the third time in five years that

the junior champion bull at the Waterloo Dairy Cattle Congress has been bred and exhibited by the Chicago Stock Farms, Buffalo Center, Iowa. See advertisement elsewhere in this issue and when writing mention The Homestead.

Forty Mammoth Jacks.

Deierling & Otto, Queen City, Mo., have in their barns in Queen City forty head of Mammoth-bred jacks that stand from fifteen to sixteen hands high and range from two to five years of age. These gentlemen make a specialty of furnishing breeders with high-class jacks for both jennets and mares. They want you to come and see the jacks they have on hand, as they feel satisfied that with this number they can please you. Note their advertisement elsewhere in this issue and when writing or visiting them kindly mention this paper.

It Saves the Hogs.

Hog cholera and worms cause more hog losses than any other causes, but they can be prevented. The actual experience of many practical hog raisers has proved that one of the cheapest and most effective ways to make hogs cholera proof and free from worms is to mix a small quantity of Merry War powdered lye with their rations and feed twice each day. When so fed hogs, if they are thin, scrawny, wormy and off their feed, show marked improvement at once. The Merry War powdered lye effectually destroys and expels the stomach and intestinal worms and parasites, which, unless destroyed, sap the blood and strength of the hogs and pave the way for cholera. The expense of Merry War powdered lye treatment is very small, only about five cents a month per hog. It is manufactured by the E. Myers Lye Company, St. Louis, Mo., and is for sale at all druggists, grocers and feed dealers at ten cents per can. The most convenient way to buy it is by the case of four dozen cans for $4.80. The E. Myers Lye Company have recently issued a most valuable book on "How to Get the Biggest Profits from Hog Raising," a copy of which will be mailed free to anyone interested on request.

Are Your Horses Ready?

This is the time of the year for the farmer to critically look over his horse stock and get them in the best possible condition for spring work. Old sores should be healed up and blemishes removed. Attention should be paid to strained tendons or ligaments. All these things must be done if the horse is to be expected to give his maximum strength to the work. Especially is this true if the horse is to be sold soon, for the critical buyer will shave many dollars off the price for a slight blemish. A thickened ankle, a filled tendon, a stocked leg, a slight cap on the elbow or hock, or a little swelling on the shoulder, the result of some bruise from the harness and hard work last year, is liable to cost dearly. The throat needs to be looked into carefully. The feet must be put in good condition, for no horse, no matter how good, can do good work on poor feet. There are many remedies on the market that will assist the farmer in doing this work. Undoubtedly one of the best is Absorbine, the antiseptic liniment. This will cure blemishes without injuring the hair. More about it can be learned from the advertisement of W. F. Young, P. D. F., 390 Temple St., Springfield, Mass., which appears in the veterinary department of this issue.

Sal-Vet a Cheap Live Stock Remedy.

The average cost of live stock remedies for years has been from twelve to twenty cents a pound, a figure which has kept farmers from using them, on the belief that they could not afford to feed them. Of course, if a live stock remedy produces excellent results, saves your stock losses, prevents contagious diseases, etc., one could afford to pay even more than twenty cents a pound. But it is no longer necessary to pay twelve to twenty cents a pound for stock remedies. There is one on the market now which costs five cents a pound in 100-pound lots and less in larger quantities. And the makers prove its merit before you pay for it. It is sold on a guarantee that it must prove satisfactory. We refer to Sal-Vet, a preparation which in about three years' time has become one of the most popular and best known remedies on the market. Success always has its horde of imitators and "knockers" and of course Sal-Vet has its share. The S. R. Feil Co., Cleveland, Ohio, will send our readers enough Sal-Vet to last their stock sixty days. If it proves satisfactory at the end of the sixty days the receiver pays for it, if not, the company cancels the charge. Read their advertisement on the back page of this issue, then fill out and mail the coupon.

Anstey's Hereford Sale—Last Call.

On March 18th, at South Omaha, Neb., Geo. J. Anstey, Massena, Iowa, will make a public sale of seventy-eight head of Hereford cattle, including fifty-three head of young bulls. This will be the largest number of bulls that will be sold in one sale this spring and it will furnish a splendid opportunity for the farmer, the breeder or the ranchman to get bulls. There will be forty head of yearling bulls in the sale and they will be sired by the three splendid bulls at the head of his herd, viz.: Sidney 1st, a grandson of Imp. Keep On; Bruce Beau Donald, a son of Beau Donald 37th, and Columbus K., a grandson of the famous old Columbus. There will be a number of two-year-old bulls in the sale and a number that will be right around a year old. All in all, it will be a splendid place to buy bulls. He has selected twenty-five cows and heifers for the sale and these will range from two to six years of age. These will all be bred to Columbus K., Bruce Beau Donald or Beau Gaston, and some of the cows will have calves at foot. With the wonderful demand that is now on for Hereford bulls it will be readily seen that the Anstey sale is going to furnish one of the best opportunities to get bulls that will be scheduled this spring. The catalog is now ready for distribution and will be sent on application to Geo. J. Anstey, Massena, Iowa, but remember that the sale will be held in the sale pavilion at South Omaha. Please mention The Homestead when writing for catalog.

Borax Insures a Healthy, Clean Home.

Twenty-Mule-Team powdered package borax is one of the most cleanly and cleansing substances known. In the household where it is freely used dirt cannot exist, and with the eradication of dirt, germs of many diseases are destroyed. There can be no surer way to procure the healthfulness of the home than by the free use of borax, which cleanses, deodorizes and disinfects. Order your supply of 20-Mule-Team powdered package borax from your dealer.

Good Method of Handling Seed Corn.

The All Grow Seed House, Knoxville, Iowa, which has a good reputation for trustworthiness and stability, has a unique method of furnishing samples of their seed corn. They don't ask a farmer to order the entire lot he needs with the chance of being disappointed when it is received, but are willing to send for fifteen cents a sample ear which they will guarantee to be a fair sample. This firm also handles Red River Ohio seed potatoes and clover and timothy seed. Their advertisement appears in the horticultural department of this week's issue.

Keep the Boys on the Farm.

The advertising manager of this publication was raised as a boy on the farm and possibly would be there yet had there been more amusement and good times. He recently purchased a Victrola, made by the Victor Talking Machine Company, Camden, N. J., and which is frequently advertised in the Home Department of our paper. He is convinced that had such an instrument been in his boyhood home on the farm he probably would never have left it. Caruso or Melba may sing, or Sousa's band plays some rousing march, a minstrel troupe gives a veritable minstrel show, some noted singers render well-known sacred hymns with the utmost beauty, and the home is filled with cheer and pleasure and seems to make life worth while. Music is needed by the farmers and when there is a Victor Victrola at a price to suit every purse there is no reason why there shouldn't be one of these instruments in every farm home. It is one of the secrets of keeping the boy on the farm and our readers should make it a point to hear the Victor Victrola the next time they go to town. There is likely a dealer near who sells the Victor Victrola and he will be glad to demonstrate it. We urge our readers to get the handsome catalog by writing to the Victor Talking Machine Co., Camden, N. J.

Ohmstede's Short-horn Sale—Last Call.

On March 19th, at the farm, two miles from Guide Rock, Neb., John Ohmstede, of that place, will offer one of the good bunches of choice young stuff that will be sold in Nebraska this season. There is not a cow in the sale over three years old and most of them are this age and one year younger, while three yearlings fill up the list. Not an old cow in the entire offering. The bulls in the sale consist of some really choice ones. About as good a one as will sell this month in the West is in this sale. A few Double Standard Polled Durham bulls are included and they should interest those who wish to breed the horns off. This sale is the day following the H. Smith & Son sale at Tobias, Neb., and the train service is such that good connections may be made. Try and attend both sales.

Clark's Hereford Sale.

One of the last Hereford sales that will be held this spring wil be that of R. P. Clark, at Brayton, Iowa, on March 21st, and he will sell fifty head. Among these will be twenty bulls, including his present herd bull, Gay Donald 12th, a son of the well-known bull, Beau of Shadeland. He has listed a splendid lot of young bulls in this sale because he realizes that there is a demand for them and he is selling enough to make it an object to the farmer or the ranchman to attend his sale and buy them in numbers. One of these young bulls that he is selling is a son of Thornton's great bull, Caesar, and the remainder are sired by Gay Donald 12th, Beau Donald 124th and King Francis. The herd bull, Gay Donald, is a four year old and is a son of Beau of Shadeland 31st. His dam is Monarch's Maid 6th by Monarch of Shadeland 3d and he was by old Anxiety Monarch. Mr. Clark has used this bull with success, but as he is keeping his heifers it becomes necessary for him to get another bull, and he is therefore selling him in his sale. Mr. Clark is selling some splendid cows and heifers in this sale. In other words, he is selecting some of the very best females in the herd and is putting them in this sale. Brayton is situated just the second town above Atlantic, Iowa, and parties coming from the Hager sale the day before can go to Atlantic the same evening and then go to Brayton in the morning. Everybody will be able to return to Atlantic in the evening to go either east or west on the main line of the Chicago, Rock Island & Pacific. Write Mr. Clark for copy of his catalog and kindly mention The Homestead.

Irrigated Land Cheap.

Among the other real estate advertisements in this week's issue of The Homestead appears that of Zeph Charles Felt, Romeo, Colo. This is quite a remarkable district. It grows a variety of staple crops. Alfalfa, wheat, barley, oats, sugar beets and potatoes are bountifully produced. The most notable crop in this section, however, is field peas. This territory is famous for its large shipments of pea-fed hogs and lambs, which invariably top the markets. Land can be bought very reasonably in the vicinity of Romeo. The country is well settled and has good school and church accommodations. Mr. Felt saw the advantages of the Romeo district years ago and purchased a number of farms which he is willing to close out now at very reasonable prices and give long-time terms.

Beehrle Reports Record Duroc Litters.

J. J. Beehrle, Ord, Neb., the well-known breeder of Duroc Jersey swine, reports some record litters of pigs farrowed this spring. Mr. Beehrle states that five sows have farrowed seventy pigs, one sow farrowing twenty, and that he has on hand now from these litters nearly sixty of them. Mr. Beerhle has made this tendency to large litters a feature of his hog-breeding operations and we are glad to know that his work along these lines is producing results. Mr. Beehrle still has a very few sows bred for April farrow that he will sell. When writing him kindly mention The Homestead.

Iowa Gates Everywhere.

A very frequent sight at railroad freight stations all over the corn belt are shipments of Iowa galvanized steel gates, made at Cedar Falls, Iowa, by the Iowa Gate Company, at the head of which is Joseph B. Clay. This concern has a very remarkable record extending over a number of years. The continually increasing sales of this gate prove conclusively its merit. It is sold at a very reasonable price and at the same time covers about all the requirements of the modern farmer. The company makes quite a remarkable offer, which includes a sixty days' trial before buying. No deposit or payment need be made until the buyer actually decides to buy the gate after the trial. They issue a very handsome book showing the utility of the gate and we would suggest that our readers address the Iowa Gate Company, Cedar Falls, Iowa, asking for a copy of this booklet and their special sixty-day proposition, mentioning this paper.

Boosting Iowa's Corn Crop.

There are a great many firms in Iowa who are boosting, or pretending to boost, the state in one way or another. Most of the boosting has a string tied to it or, in other words, the booster is sure of mercenary gain. One firm, however, has undertaken a philanthropical movement which will undoubtedly do much for the state of Iowa. The Home Mutual Hail Association, of Cherokee, Iowa, will give in connection with the Iowa Corn and Small Grain Growers' Association contest, to be held in Ames, Iowa, December 22, 1913, $1,000 in premiums. Information as to how these premiums are to be divided may be obtained from the large advertisement of this company which appears in the horticultural department of this issue. The contest is open to every farmer in Iowa. The Home Mutual Hail Association are making this offer because they are vitally interested in Iowa's crop being increased. No obligations are attached whatever and the company receives no more gain than many other companies who benefit by Iowa's prosperity. The Home Mutual Hail Association have a very enviable reputation and have a large business in Iowa. They are trustworthy in every respect and we can recommend them to our readers. The officials of the company are well known and highly respected business men. James F. Weart, of the firm of Weart & Lysaght, who own and control a large number of lumber yards and grain elevators in northwestern Iowa, is president. R. H. Gray, of the Larrabee Savings Bank, is vice-president. Ralph Hinman, cashier of the First National Bank of Primghar, is one of the members. W. A. Sanford, the treasurer, has for many years been connected with the First National Bank of Cherokee, one of the oldest banks in northwestern Iowa. Lewis W. Wiweke, the secretary, is a young insurance man of push and energy who, by persistence, has made a remarkable career in the insurance business.

The Beautiful Moore Corn Book.

C. Ray Moore, "The Man Who Does Thinks With Corn," on the famous Sunkist Farms, adjoining Kellerton, Iowa, has written a corn book which, in its beauty of make-up and its ability to intensely interest any good corn grower, is a real gem. Mr. Moore, starting as a poor farm boy who had to learn the practical side of corn growing in the school of "hard knocks," has attained to an education in scientific corn breeding and development, and is becoming nationally known as an originator of high-yielding strains of farm seeds, especially seed corn. His corn book tells in the author's unique, original style how he rose from obscurity to success in corn-breeding work, and describes the steps by which he perfected a strain of corn that has yielded exceedingly well. On Sunkist Farms he has built modern seed houses in which he dries early fall selected seed ears on rack driers of his own design. He has a characteristically striking announcement elsewhere in this issue in which he offers his corn book free to corn growers. Look up the announcement and write for a copy today.

The Anoka Farms Short-horn Sale.

No event in live stock circles is looked forward to with more interest year after year than the annual offering of Short-horn cattle at Anoka Farms, Waukesha, Wis. The buying public have come to recognize these sales as the opportunity of the year to make selections from a strictly high-class lot of cattle. There is ample reason for this. The breeding of Short-horns at Anoka is no experiment. It is a life work. The founder of this establishment, the late George Harding, was a master breeder, and when he laid down the labors of the management of the herd some ten years ago the work was taken up by his son, Frank W. Harding, who had given all the years of his life to the assisting of his father in the breeding of good cattle, and under his direction the fame of Anoka has increased in every quarter. The most popular blood in Short-horn circles today is the blood of Whitehall Sultan, the bull that Mr. Harding's unerring judgment selected some years ago to head Anoka herd. His is the record of the greatest sire that the Short-horn breed has ever known, and year after year the public has come to Anoka, the fountain head, for this blood. The sale this year will take place Wednesday, April 2d, and for it Mr. Harding has selected a draft of forty-five head, thirty-three females and twelve bulls, all but six head the produce of the Anoka herd and of the Whitehall Sultan line of breeding. The twelve bulls are an attractive lot, the Anoka kind, which is saying all that one needs to know about them. They are the get of Leader of Fashion, one of the greatest Sultan sires ever at Anoka; Gloster Fashion, Fond Memory, Sultan Mine and Sultan Stamp, all bulls bred, shown and used by Mr. Harding, and the buyer in need of a bull this spring will find in this sale just what he wants as a show or breeding proposition. One of the tops is Gloster Mine by Sultan Mine, out of a Duchess of Gloster dam. He was a winner all through the circuit last year and Mr. Harding considers him as good a calf as he ever offered in a sale. He is low, deep and thick, with a strong head, smooth and well coated, and was either first or second at every place shown last year. No better young Short-horn bull will be offered at a sale this spring, and he should certainly go into good hands, where the best is wanted. Cruickshank Fashion by Leader of Fashion is a top one in any company, is deep and wide, well ribbed and one of the best prospects of the year. Sultan Eclipse by Fond Memory is the only white calf in the sale and is a good one. He has a good head, is possessed of heavy bone and good quarters and is a calf of much promise. Scotch Laird is a bright cherry red, sired by Fond Memory and out of a dam by Whitehall Sultan, thus giving him two crosses of the prepotent Sultan blood. He is a good doer and should develop into something very attractive. Clipper Stamp is the first calf sired by Sultan Stamp, the bull shown by Mr. Harding last year, and is a very wide, deep, thick, soggy fellow, one of the best things in the sale, carrying a very even width. Prince Lavender is a very attractive roan by Leader of Fashion, blocky and smooth and carrying a great coat of hair. He is an outstanding good prospect. Gloster Sultan by Fond Memory, out of a dam by Whitehall Marshal, is a heavy-boned youngster, with a splendid coat and lots of masculinity. The fact that he is a double-bred Whitehall Sultan should appeal to the buying public sale day. Scotch Mine by Sultan Mine, out of a Roan Lady dam, was a winner at many of the shows last fall, and should be looked after sale day. There are other good ones in the lot, all bred strongly in the blood of Whitehall Sultan, the kind that will do to go anywhere. The female portion of the offering is one of the strongest that has ever been sent forward at Anoka Farms, and in many respects it is the best. Among the thirty-three head are some of the strongest show and breeding propositions to be found anywhere. Each year Mr. Harding endeavors to make his sale offering better than that of the preceding year, something that he always accomplishes, so that visitors at Anoka on April 2d can rest assured they will find an offering of Short-horns that will please the most critical in every way. The best blood lines known to the breed predominate in the pedigrees of the cattle, and their individuality is of the sort that cannot easily be duplicated.

NEXT WEEK'S SALE PROGRAM

Tuesday, March 18	Herefords, Geo. J. Anstey, South Omaha, Neb. Holstein-Friesians, Iowa Holstein Breeders' Sale Co., Waterloo, Iowa. Short-horns, H. Smith & Son, Tobias, Neb.
Wednesday, March 19	Holstein-Friesians, Iowa Holstein Breeders' Sale Co., Waterloo, Iowa. Short-horns, John Ohmstede, Guide Rock, Neb. Polled Durhams, John Ohmstede, Guide Rock, Neb.
Thursday, March 20	Horses, The North & Robinson Company, Grand Island, Neb. Herefords, A. F. Hager, Avoca, Iowa.
Friday, March 21	Herefords, R. P. Clark, Brayton, Iowa. Horses, The North & Robinson Company, Grand Island, Neb.

SPECIAL SALE OF PERCHERON and BELGIAN STALLIONS
FOR NEXT THIRTY DAYS

New Importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More to arrive in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in U. S.

HOLBERT HORSE IMPORTING COMPANY.

A. B. HOLBERT, Proprietor, - - - - GREELEY, IOWA

OAKLAWN STOCK FARM BREEDS AND IMPORTS
PERCHERON, BELGIAN, SHIRE STALLIONS and MARES

OUR big winnings at the Iowa State Fair were made entirely on horses either imported or bred at Oaklawn Stock Farm. At the Iowa State Fair in 1912 we had the grand champion Belgian stallion, which is one of the most coveted prizes of that great show. We imported the horse that won it. Our last importation arrived in November and are in fine condition to show prospective purchasers. We have another importation due to arrive in Newton the last of this month. We never allow our stock of stallions and mares to get low, but always have plenty on hand from which customers may choose. Our prices are right and our horses are a clean-limbed, sound, good-acting lot and we can please you in horses and price. We give our customers a square deal and have sold a number of men their third and fourth stallions. If you want to save money see me before you buy.

GEORGE EGGERT, Newton, Iowa.

It would be impossible to particularize and do justice to all the different animals. No matter what your want may be in the cattle line you can supply it in a satisfactory manner at Waukesha on April 2d. The advertisement appears elsewhere in this isuse. Look it up and send for a copy of the catalog to Anoka Farms, Waukesha, Wis., mentioning The Homestead when writing.

Frank J. Rist, the Seed Man.

It is something of money value to the purchaser to be able to purchase seeds from a seedman who has a great interest in his work and who feels the need of holding every customer that he may be able to secure. This is the sort of a man whom our readers will be dealing with if they purchase seeds of Frank J. Rist, Humboldt, Neb. Mr. Rist is enthusiastic about the growing of better crops and he believes that one of the quickest ways of increasing the yields of our different grains and grasses is to plant the best seed obtainable. Mr. Rist has spent a lot of time and money in selecting his own seeds, and you may have the benefit of his patient years of work and all the expense for a mere fraction of the first cost. It will not pay to buy inferior seeds when good ones may be bought at the prices being asked by him. He is putting out a neat catalog, with several views of his fields and seed house, and all interested should write at once. Mention The Homestead and address as above.

H. Smith & Son's Short-horn Sale—Last Call.

We are this week making the last call for the Short-horn sale that will be held by H. Smith & Son, Tobias, Neb., March 18th. In this sale these gentlemen will sell much of the accumulation of this herd for the past three or four years, and for that reason but few except young stock will be offered. The cow line is particularly good in most cases and some of the bulls are also very choice. We really believe that this sale will be a good place to buy good cattle, as these will be sold in their everyday clothes. They will not be fat enough to bring high prices, and that is the sort of an offering that the buyer can attend with profit. It also shows what these cattle will look like when they get out on the home fields. Nearly every cow of breeding age will be safe in calf or with calf at foot by the great son of Cumberland's Last, Roan Cumberland. He is one of the great breeding bulls of Nebraska and his calves on this farm show that a cow in calf to him will be a good investment. Do not forget the date and make arrangements to be on hand sale day. This sale is on March 18th and John Ohmstede, Guide Rock, Neb., sells on March 19th. Parties from a distance can make arrangements to attend both these sales with little expense as the train service between points is good. If you have not the catalog, and think you have time to get one, send in your name at once, but do not miss the sale for this reason. We wish to assure intending buyers that they will find a well-bred lot of stuff in this sale. Should you write kindly mention The Homestead.

The Hager Hereford Sale.

On March 20th, at Avoca, Iowa, A. F. Hager will make a public sale of fifty-four head of choice Hereford cattle and his will be one of the good offerings of the spring season. He is selling twenty-six head of very choice bulls in this sale, including two splendid herd bulls. One of these is St. Elmo R., a 2,400-pound bull that has been doing service at the head of his herd. This is a wonderfully thick-fleshed bull and a splendid breeder. His calves in the Hager sale show up well and are thick meated and easy feshers. He is one of the best Hereford herd bulls that will be offered this spring in any sale. The other bull is Clearmont Lad, a son of Dale Lad 8th and out of a dam by Briton 10th. This bull will weigh right around 2,300 pounds and he is an excellent breeding bull. Any breeder who is going to need a bull to head his herd will find either one of these bulls good enough to buy, as they are both sires of some of the best things in the breed. There is an excellent two-year-old bull in this sale named Beau Charm 2d, and while he is not the largest bull, he is nevertheless a bull of splendid quality and will look good in any herd. There is also a state fair winner or two among the young bulls and, take our word for it, you will find some bulls in this offering that are good enough to head good herds or go anywhere else. Mr. Hager has drawn upon some of his very best females for this sale and he will sell some that are as well bred and as good individually as you will find anywhere. The offering as a whole is a good one from one end to the other and we hope those who want Hereford cattle will make it a point to attend this sale. Write A. F. Hager, Avoca, Iowa, for catalog and kindly mention The Homestead.

Bowers' Short-horn Offering.

Regarding the Short-horns he will offer in the combination sale at Galesburg, Ill., March 25th, H. G. Bowers, Elmwood, Ill., writes: "My consignment consists of ten head, five females and five bulls, mostly of the Violet Bud, Missie and Wood Violet families, and all, with one exception, out of or bred to Woodland Sultan, a grandson of Whitehall Sultan. This bull was bred by A. J. Ryden and stood second at Springfield and fourth at Chicago. Violet Queen 3d is a show heifer, sired by Woodland Sultan and out of Violet Queen 2d by Imp. Emperor. She is a nice roan and will make trouble in the show ring this year if fitted. Missie's Pride by Lad's Lad and out of a half-sister to the $3,100 Wanderer's Last, is another good one, two years old this spring. Sultan's Scepter I consider one of the best young bulls that will be offered this year. He is a beautiful red roan and will be a year old in April. He is by Woodland Sultan, out of a Violet Bud dam. Vain Sultan is another good calf by Woodland Sultan. His dam is May Violet 2d, bred by B. O. Cowan and sold in his dispersion sale to Thos. Westrope for $1,360. The old cow is now fifteen years old and a regular breeder. I am also offering a good proposition in the four-year-old cow, Viola by Imp. Emperor, with a fine bull calf at foot by Woodland Sultan and rebred to the same bull. I know that my cattle will please the buyers sale day." Catalogs for this combination sale can be secured by addressing A. J. Ryden, Abingdon, Ill., as per the advertisement elsewhere in this issue.

White Bros.' Aberdeen Angus Sale.

On March 25th, at their farm near Perry, Iowa, White Bros. will make a public sale of forty head of well-bred Aberdeen Angus cattle. There will be ten splendid young bulls in the sale and thirty head of cows and heifers. The offering is very largely made up of Blackbirds, Trojan Ericas, K. Prides, Pride of Aberdeens, Gilts and Miss Copelands. It is an offering that is in nice breeding condition and no one will offer a better line of pedigrees. Among the ten young bulls that they have listed for this sale will be three Blackbirds, and one of these will be a Blackcap; three Trojan Ericas; two K. Prides; one Queen Mother, and one Pride of Aberdeen. The Blackcap bull is a September yearling and is a son of their splendid Blackbird bull, Sunnyside Prince. His dam is Afton Blackcap, a cow they bought of Silas Igo for $555. Another good Blackbird bull is out of Blackbird Lassie and she is a daughter of King Edward W. One of the thickest Blackbird bulls in the sale is Blackbird Perfect 2d, a son of Imp. Everett of Maisemore and out of Blackbird Perfection 2d by the noted bull, Eraste. One of the best Trojan Erica bulls they will offer is Earl Eric of Whitesides and he is a son of that noted bull, Imp. Earl Eric of Ballindaloch. The dam of this bull is Esther of Laggon by Imp. Edelhoff, one of the best cows in the herd. Another good Trojan Erica and a K. Pride, both sired by Imp. Everett of Maisemore, are among the promising young bulls in the sale. One of the largest bulls they will offer is a Queen Mother sired by Sunnyside Prince, out of Lady Midnight by Black Monarchist. They are selling a grand good lot of females in this sale. Among these are seven very choice Blackbirds and three of these are Blackcaps, six Trojan Ericas, five K. Prides, five Queen Mothers, one Gilt, and they are also selling Starrish Rose, that splendid daughter of that noted champion cow, Miss Copeland. She is now a four year old and sells with a most excellent bull calf at foot by the Blackbird bull, Sunnyside Prince. Many of the cows in the sale will have calves at foot and the remainder that are old enough will be safe in calf to either one of their two splendid bulls, Imp. Everett of Maisemore or Sunnyside Prince. The former bull they purchased of Chas. Escher and he is a son of the great bull, Everwise, that was a winner in the old country of many first prizes and gold medals. He is a richly bred Trojan Erica and his calves are showing up fine. Old Sunnyside Prince 2d is the Blackbird bull they have used for several years and he is one of the thickest and typically Angus bulls in the state. He has proved himself a most excellent breeding bull and his get have always been in demand. These gentlemen are selling a very choice offering and it will be a good place to buy Angus cattle. Their catalog is out and will be sent on application to White Bros., Perry, Iowa. Please mention The Homestead when writing for it.

Hanna's Short-horn Sale.

Friday, April 4th, D. R. Hanna will offer forty head of Short-horns from his Cottage Hill Farm herd, Ravenna, Ohio, at public sale at Chicago, and it will be by far the best lot of cattle that has ever been sent forward from this establishment. Manager Garden has selected some of the top things in the herd and the buying public cannot fail to appreciate the value of the offering sale day. The blood of Imp. Villager, the great breeding sire at the head of the herd, will predominate. Ten bulls are listed, six by Villager and four by Village King, one of his best sons. Included in this list are a number of top propositions, regarding which we will have more to say in another issue. They form one of the strongest bull offerings of the year in Short-horn circles. Six daughters of Villager are cataloged, a choice lot of breedy show heifers, including Village Primrose 2d, the undefeated senior heifer calf at the 1912 shows, and junior champion of the International. All cows of breeding age are bred to either Villager or one of his sons, Village King or the sensational Village Denmark. The most attractive pedigrees in the herd book will be found in the catalog, there being representatives of the Brawith Bud, Miss Ramsden, Lavender, Wimple, Butterfly, Augusta, Spicy, Missie, Broadhooks, Nonpareil and other popular tribes, and they will be presented in attractive condition. Every breeder of Short-horns should figure to get some of the Villager blood in his herd. This bull is bound to be one of the great sires of the breed. In last year's show rings he had to his credit the undefeated senior heifer calf, the undefeated young herd and the undefeated calf herd, as well as a long list of other winners. He transmits his good qualities to a marked degree, many of his sons and daughters having been among the sensations of the show rings for the past few seasons. The beginner will find this a peculiarly desirable opportunity to secure the right kind of foundation stock. The get of Villager will have to be reckoned with from now on, and the progressive man will be on hand at this sale prepared to secure some of the cattle. This

sale follows that of Messrs. Sayer and Stanton at Chicago, Ill., and that of Anoka Farms at Waukesha, Wis., so that parties attending the series will have an opportunity to place values upon practically 200 head of high-class Short-horns, giving them exceptional chances to secure bargains, owing to the large number to be sold. In succeeding issues we will speak in detail regarding many of the good things in the Hanna sale. In the meantime file your application for a catalog with John Garden, Ravenna, Ohio, mentioning The Homestead when you write. The initial advertisement appears elsewhere in this issue.

The Galesburg Short-horn Sale.

There will be cattle to suit all classes of buyers in the combination offering to be made at the C., B. & Q. stock yards, Galesburg, Ill., March 25th, by A. J. Ryden, Chas. T. Nelson, W. H. Kreigh & Son and H. G. Bowers. These are all leading Illinois breeders and they are consigning between forty-five and fifty head to this sale, including some of the best things to be found in their herds. Twelve bulls are listed, among which will be found both herd-heading and high-class grading-up material. A. J. Ryden has demonstrated his ability to produce the right kind of cattle on innumerable occasions and he is sending forward ten head of the right sort, including several sired by Village Sultan, a thick-fleshed, strong breeding son of Whitehall Sultan. Several of the females are bred to Juno's Royal, a well-bred producing son of Juno of Woodhill. Chas. T. Nelson, Blandinsville, Ill., one of the most thorough and progressive breeders of Illinois, both of Short-horn cattle and Percheron horses, contributes seventeen head, including several very attractive and well-bred breeding matrons of good ages. Several will have calves at foot by a prize-winning son of the great Choice Goods, and others will be bred to this bull. Mr. Nelson also sells some strong young bulls that will attract attention sale day. Eight head are listed by Kreigh & Son, including two cows with calves at foot by Village Sultan. Two heifers bred to Juno's Royal are listed, as are also two bulls by Village Sultan, full brothers, both being out of the same Red Knight dam. The younger bull, Sultan's Best, Kreigh & Son place great stress upon, and their judgment is well backed up by the individual worth of the bull. Mr. Bowers sells ten head, all well-bred ones, some particulars regarding which are given elsewhere in this issue. This is a sale that will be well worth attending. The gentlemen making it are all practical and reliable cattlemen and they are sending forward a good lot of cattle. This sale comes the day preceding the Rigg & Glasgow dissolution sale at Galesburg, so that buyers can easily attend both sales and have an opportunity to place values upon practically 100 head of Short-horns. The advertisement will be found elsewhere in this issue. Look it up and write for a catalog to A. J. Ryden, Abingdon, Ill., mentioning The Homestead.

Rigg & Glasgow's Short-horn Sale.

An inspection of the catalog for the Rigg & Glasgow dissolution Short-horn sale at Galesburg, Ill., March 26th, reveals a very attractive lot of pedigrees. An inspection of the cattle reveals an attractive lot of individuals. Mr. Rigg is one of the veteran breeders of Illinois, and were it not that a dissolution of partnership between he and Mr. Glasgow makes necessary the sale of the entire herd, the major portion of the animals offered in this sale would not be priced at any figure. They are a well-bred, thrifty, attractive, producing lot of cattle, and many of the cows will sell with calves at foot. The Clara, Missie, Fancy, Lavender, Emma and Alexandrina tribes are represented in this sale. Thirty-eight head are cataloged, thirty-four cows and heifers and four bulls, including the herd bull, Pride of Linwood, bred by Forbes & Son, and most of the offering of females of breeding age are in calf to this bull. A good type is offered in Peachbud 8th by Baron's Pride and in calf to Pride of Linwood. Emma Prince by Golden Charity Prince, dam Emma 24th, is a good, thick young cow, well along in calf. Many females in the offering are the produce of Lady Mary, one of the best cows ever in the herd of Mr. Rigg or any other breeder, while several of her granddaughters are listed. An extra good cow in this lot is Golden Mary by Imp. Golden Charity Prince, and she is in calf to Pride of Linwood. Her daughter, Golden Mary 3d by Trout Creek Champion, is also listed, and is an attractive proposition. Shenstone Rose, bred to Pride of Linwood, is one of the few daughters of Shenstone Albino ever offered in this country. A heifer of unusual promise is Golden Emma by Golden Charity Prince and out of Emma 24th. Golden Mary 2d by Golden Charity Prince sells with a fine bull calf at foot by Pride of Linwood, while Lavender 26th sells with twin bull calves at foot by the $10,000 Prince Imperial. If one had the time and space to mention each animal individually he could give one a better idea of the value of the offering. These cattle must really be seen to be appreciated. As stated before, this is an absolute dissolution sale, owing to Messrs. Rigg & Glasgow having decided to separate in the business way. Attend this sale. You will find there something that will please you, and it can be secured at your own price. This sale comes the day following that of Messrs. Ryden, Nelson, Kreigh & Son and Bowers at Galesburg, Ill., March 25th, and parties can easily attend both sales, giving them nearly 100 head from which to make selections. Set aside the day and write at once for a copy of the catalog to Rigg & Glasgow, Mt. Sterling, Ill., mentioning The Homestead.

Ask your neighbor to subscribe to The Homestead.

THE FLOWER GARDEN.

To the Editor of The Homestead:

A small corner in the back yard cared for by a lover of flowers is as much a flower garden as acres of beds of elaborate design kept by professional gardeners. This article is written for those who do their own gardening and who, we are sure, derive as much pleasure from their humble grounds as do those whose wealth enables them to employ others to do it for them.

There are two principal styles of gardening. In one the flowers are used in masses to produce effects of color, either in a mass of one color or parts of a more elaborate design. In this the individuality of the plant is lost, and it only makes one in a crowd. In the other style plants are chosen for their beauty, fragrance, curious structure or other individual peculiarity, which is best seen when the plant has a chance to develop its proper form.

Some of the first examples of the bedding style are brilliant and showy, yet our sympathies are with the other or mixed border, at least if confined to one. In bedding, the plants most used require to be grown under glass. In the mixed border there is a succession from the snowdrops, blooming in the last snow of spring, and the colchicum, caught by the first snow of autumn. In this perennials, biennials and annuals all find a place. If confined to one class of plants we would choose herbaceous perennials. Among these is the greatest possible variety, and once planted they need not be disturbed for years. These excellent plants have of late years been crowded aside by the more fashionable ones. Herbaceous perennials may be grown from seed, but it is more satisfactory to secure small plants. We will enumerate some that may be readily obtained and which are excellent, among which are the chrysanthemum, of three colors, red, yellow and white; the old-fashioned, sweet-smelling pink; bleeding hearts; jonquils; yellow Easter flower, known as the golden candlestick; candy tuft; lillies, even the wild ones; peonies; poppies; phlox; violets, and the old-fashioned moss pink, a garden might be made of the different kinds alone there is such a variety, and the list might be extended indefinitely. Hardy bulbs should be planted in autumn and hyacinths, tulips and crocuses may be left in clumps from year to year. Lillies do best if undisturbed. Tender bulbs and tubers should be set in the spring, taken up in the fall and kept through the winter in the cellar. Gladioluses, dahlias, cannas and many others are worth the trouble. Annuals are tender and hardy. The tender ones, such as Balam's cockscombs, etc., need to be started under glass and not transplanted until the weather is warm. Many others may be sown in the open ground as soon as it can be worked. Everyone knows the most common kind, and for the less common kinds, of which new ones come every year, one may consult the catalogs. S. E. M.

Ask your neighbor to subscribe to The Homestead.

AYRSHIRE CATTLE.

AYRSHIRE Cattle for sale. Bred for good dairy results. Breeders and Shippers. Prices reasonable. F. TSCHUDY & SONS, Monroe, Wis.

TOO LATE TO CLASSIFY.

FOR SALE--Duroc Jersey Boar

TWO years old, son of Top Notcher Again, the famous boar that won in several state fairs a few years ago. This hog weighs over 800 pounds in breeding condition and is fit to head any herd, and will make a great show boar. For further particulars write or come and see him. Address
FRANK D. NELSON, Harlan, Iowa.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa.

THEO. MARTIN
LIVE STOCK AUCTIONEER
Short-horns and Poland Chinas a specialty. R. R.6, Bellevue, Iowa.

HOLSTEIN-FRIESIAN CATTLE SALE
IN THE PAVILION AT LOGAN, IOWA
WEDNESDAY, MARCH 26, 1913

I WILL offer for sale 75 high-grade Holstein-Friesian cows and heifers, 10 pure-bred registered Holstein-Friesian bulls and a number of pure-bred registered cows and heifers. These cattle are in excellent condition, good producers and money makers for any farmer who will care for them. For full particulars write to
A. J. PODENDORF, - Logan, Iowa.

PUBLIC SALE 150 Registered Tuberculin-Tested HOLSTEIN-FRIESIANS
WATERLOO, IOWA, MARCH 18th and 19th

THESE cattle represent some of the best breeding to be found in the West. There will be abou 125 females. This includes cows—in milk or to freshen soon, young heifers, cows with A.R.O records, and daughters of A. R. O. cows. Those of breeding age are in calf to Korndyke Queen DeKol's Prince, King Segis, Pontiac Manor and Johanna Bonheur Champion and other high class sires. There are 25 young bulls of choicest breeding from A. R. O. cows. Majority of them old enough for service. Consignors: McKay Bros., R. B. Young, D. J. DeHoogh, Elliott Bros., J. L. Mason, W. A. Speer, H. A. Smucker, J. R. Thompson. Write for catalog.
IOWA HOLSTEIN BREEDERS SALE CO.,
WATERLOO - - - - - - - - IOWA
Col. D. L. Perry, Auctioneer.

TOO LATE TO CLASSIFY.

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.
WRITE NOW!
V. W. HARMS,
FAIRBURY, ILLS.

McLAY CLYDESDALES MAKE GOOD
McLAY BROTHERS,
Janesville, Wisconsin

DISPERSION SALE
RED POLLED CATTLE
in Sale Pavilion,
LEXINGTON, NEB.,
MARCH 29, 1913

34 HEAD. Seven bulls, twenty-seven females. Extra choice stock, fine condition, strong in blood of famous sires, mated with choice bulls. Send for catalog. Address
PAUL SIMMONS,
Cozad, Nebraska

COLLINS' JERSEY RED
the best Pig bred
Fattens quickest at least cost. Healthy, prolific, small-boned, long bodied—meat unsurpassed. The "perfect profit pig." New catalog FREE.
ARTHUR J. COLLINS Box 14 Moorestown, N.J.
375 lbs. in 9 months!

Now Is the Time
to buy pig flesh from Spring litters—
BERKSHIRES
All pure Berks from Morgan Farm. Morgan Hogs win laurels everywhere. 60 spring gilts bred or unbred, 30 spring boars, 5 yearling boars. Be sure and write before buying.
MORGAN FARM
Beloit, Wisconsin

Big-Type Poland China Gilts
BRED for March and April farrow. If you want something with lots of size and bone, with quality, write me your wants. Prices right. Address
H. A. WOHLSDORF, LAWLER, IOWA.

W. B. CARPENTER
Live Stock and Real Estate Auctioneer
Also President Missouri Auction School, 1400 Grand Avenue, Kansas City, Missouri.

FOR SALE 1 eight months old black Percheron filly, 1 3-year-old French Coach stallion, 6 choice, big-type Poland China gilts. Four 12-weeks-old pigs—3 gilts and 1 boar, sired by big Surprise 3d. Address Henry Moll, Garner, Ia.

FOR SALE
Three young Scotch bulls herd-heading material. Address C. & C. T. VAN LINT, Pella, Ia.

For Sale Cheap if taken soon, a Mo. bred jack, a good breeder, prompt and a sure foal getter. Address L. B. Cummings, Clearfield, Ia.

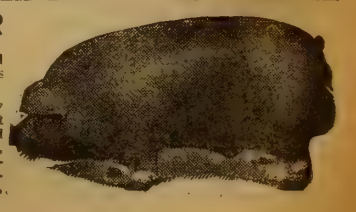
Old Homestead Herd O. I. C.'s
ONE of our sows produced the champion middleweight farrow at the late International. Fall and spring pigs only for sale. Funk's and Reid's Yellow Dent seed corn, Kherson oats, graded and tested. Prices right. Bags free. Address
A. M. FOSTER, R 37, Rushville, Illinois.

2 SCOTCH BULLS
I AM offering two good young Scotch bulls for sale. One is a roan and a Cruickshank Secret. The other is a red and a Bridesmaid. Come at once.
H. B. HARDEN, - CORNING, IOWA.

W. H. COOPER, LIVE STOCK AUCTIONEER

WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

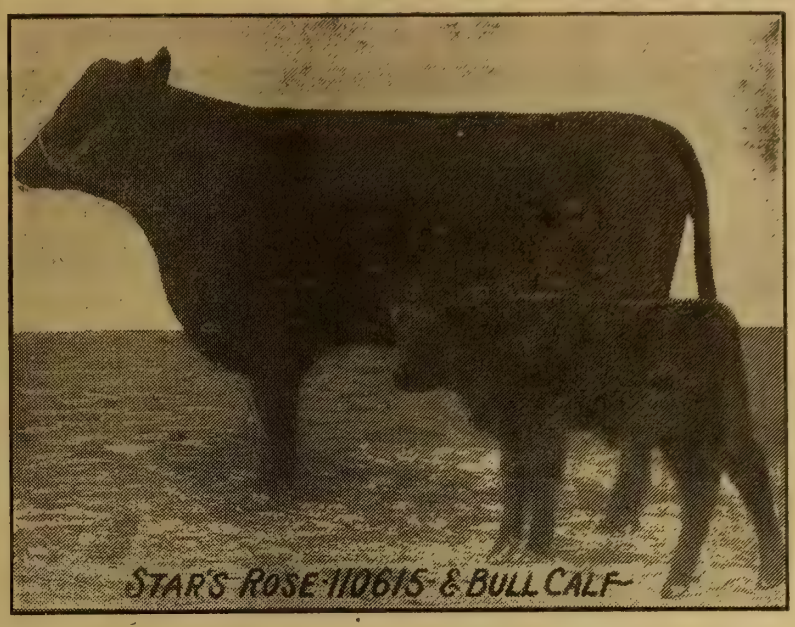
50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser.
W. H. COOPER, HEDRICK, IOWA.



WHITE BROS.' SPLENDID OFFERING
ABERDEEN ANGUS CATTLE
PERRY, IOWA, TUESDAY, MARCH 25, 1913
40 HEAD---10 Choice Young Bulls, 30 Cows and Heifers---40

BULLS

3 Blackbirds---one Blackcap.
3 Trojan Ericas.
2 K-Prides.
1 Queen Mother.
1 Pride of Aberdeen



FEMALES

7 Blackbirds--three Blackcaps.
6 Trojan Ericas.
3 K-Prides.
5 Queen Mothers.

We are selling 10 splendid young bulls that will do to head good herds, a grand good offering of well-bred females. Included will be **Starrish Rose,** the great daughter of that famous grand champion cow, Miss Copeland, and she sells with a splendid bull calf at foot. We have listed the best lot of **Blackbird, Trojan Erica, Queen Mother, K-Pride** and **Pride of Aberdeen** females that has ever left our farm. Eight of these will have calves at foot and others will be right at their calving to **Imp. Everett of Maisemore,** one of the best bred Trojan Erica bulls in the West, or to **Sunnyside Prince,** one of the best Blackbird bulls in the state. Write for catalog at once and come to sale. Mention Homestead when writing for catalog.

Col. Silas Igo, Auctioneer. **WHITE BROS., PERRY, IOWA.**

CHESTER WHITE SWINE.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. When writing mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa.**

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address
ALDEN ANDERSON, ELLSWORTH, IOWA

Wildwood Chester Whites
Brood Sows for Sale.

6 YEARLING sows and 30 spring gilts bred for late March and April farrow to 4 high-class mature herd boars. Strong bone, good size and in moderate breeding condition. Address
W. W. VAUGHN, - Marion, Iowa.

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.
S. J. PHILSON, - Harlan, Iowa.

CROSIER'S O. I. C.'S

LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address
CHAS. W. CROSIER, - Juniata, Neb.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

ORME'S PRIZE-WINNING CHESTERS A few herd headers in July and October boars, a few gilts. A. C. Orme, Nodaway, Ia.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

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FRED REPPERT
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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.
DECATUR, IND.

N. G. KRASCHEL
HARLAN, IOWA.
LIVE STOCK AUCTIONEER

I am conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

H. S. ALLEN
RUSSELL, IOWA.
PEDIGREED LIVE STOCK AUCTIONEER

THOROUGHLY POSTED. Fine stock sales booked in four states. Also public sale of farms at auction. Write for prices.

Col. W. H. Irwin
Auctioneer

I HAVE always been in the live stock business. I know individual merit, pedigree and values. Duroc and dairy sales a specialty. Have sold Durocs for the best breeders East and West. Also breeder of fancy poultry.
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AUCTIONEER,
Pedigreed Live Stock. Mount Vernon, Iowa

E. Z. RUSSELL, LINCOLN, NEB.
LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

LIVE STOCK AUCTIONEERS.

COL. H. L. IGLEHEART
Elizabethtown, Kentucky
LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

B. H. KECK, MT. PULASKI, ILL.
AUCTIONEER

Write for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

W. F. STRATTON
Nevada, Iowa
Live Stock and Real Estate Auctioneer.
23 Years' Experience.

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PERCHERON, BELGIAN and SHIRE STALLIONS and MARES

Will be held in Bradstreet & Clemen's sale barn at **GRAND ISLAND, NEBRASKA, THURSDAY AND FRIDAY, MARCH 20-21**

TWENTY-FIVE big-boned, rugged young stallions, including the prize-winning Adelbert, by the champion Olbert and said by many to be the making of as good a horse as his sire. A fine lot of young stallions that are right and fit to head the best kinds of studs. They are nearly all Nebraska grown, and on one of the greatest breeding establishments in the entire country. They are grown where climatic conditions are of the very best, and on the best feeds ever grown for the production of the highest type horses. See these ton and over colts. They are the kind that please. We have listed horses for this sale that will please any man in search of the very best. See them.

THE forty mares offered will include a number that were prize-winners at the Nebraska State Fair last season, and the dozen biggest mares ever sold in one auction will be here. The 12 weigh 16 tons. Parties looking for big, sound mares that are mated and safe in foal to as good stallions as there are in the country today will do well to see this offering. We do not believe that as good values will be had in mares anywhere this season, and the man East or West, North or South can well afford to attend this sale. Everything that goes in the sale ring will sell. We raise these horses to sell, and you will not be dealing fair with yourself if you do not see them.

The catalogs are ready, and we want every horseman to have one. Col. Z. S. Branson, Auctioneer. Mention The Homestead and address at once.

THE NORTH & ROBINSON COMPANY, GRAND ISLAND, NEBRASKA

100 SHORT-HORNS AT PUBLIC SALE 100

GALESBURG, ILLINOIS, MARCH 25 AND 26

50 HEAD. 12 BULLS

From the herds of A. J. Ryden, Abingdon, Ill., Chas. T. Nelson, Blandinsville, Ill., Wm. Kreigh & Son, Knoxville, Ill., and H. G. Bowers, Elmwood, Ill., will be sold

TUESDAY, MARCH 25, 1913

EACH contributor is sending forward a well-bred, desirable lot of cattle. There will be twelve good young bulls in this offering including some grandsons of Whitehall Sultan that are herd-heading propositions. A breeding lot of cattle, the increase from reliable breeding herds. Breeders and farmers attend this sale. You will find here what you need in Short-horn cattle. Remember that at this sale and the sale the day following practically 100 head of cattle are to be sold, so bargains will be plentiful. Send for the catalog today. Mention The Homestead and address

A. J. RYDEN, Abingdon, Ill.

A DISPERSION SALE

of the herd of Rigg & Glasgow, Mt. Sterling, Ill., owing to a dissolution of partnership, will be made

WEDNESDAY, MARCH 26, 1913

A CHOICELY bred lot of cattle is listed for this sale, representatives of the Secret, Lavender, Fancy, Emma, Clara, Missie, Rosemary and other popular families. Daughters of Trout Creek Champion, Imp. Pennan Diamond, Golden Charity Prince, Shenstone Albino, King Cupbearer and other good sires are in the list, and many sell with calves at foot while all of breeding age are in calf to Pride of Linwood. Ten extra high-class two-year-old heifers are in the sale. Some strong bull propositions including the two-year-old Sultan Archer, a grandson of Whitehall Sultan and Ceremonious Archer. Remember the entire herd is to be sold. Nothing kept back. Mention The Homestead and write for a copy of the catalog to

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OF
Registered French Draft

STALLIONS and mares, at the farm 5 miles west of Dallas Center, Iowa, Wednesday, Mar. 19, 1913. 5 mares, all black, from three years old up and 2 stallions, one a 7-year-old large Percheron and the other a black 6-year-old. Two driving stallions. Free transportation to farm sale day.

C. C. MILLS
Dallas Center, Iowa.

Stallions and Bulls

THE Iowa State College is offering for sale one Clydesdale stallion coming two years old sired by Kuroki (12629) 13214, dam Maggie Reffner 13341 by Reffner (12301) 12116; 2d dam Princess Maggie 10880 bred by Colonel Holloway. Also several good, young Short-horn and Angus bulls. Address Division of Agriculture, Iowa State College, Ames, Iowa.

Choice Boars and Gilts

OF August and September farrow are for sale now. They are sired by Wonder Price, by A Wonder, and his dam is the great Lady Nelson. Also some by Pawnee Tall by Pawnee Chief. These are real big-type stuff, big boned and they are the making of big hogs. I am pricing them to sell. Address at once
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A LIFETIME HAS BEEN DEVOTED TOWARD MAKING FOR ANOKA A NAME FOR ITS PRODUCTION UNEXCELLED IN ANY COUNTRY

Waukesha, Wisconsin, March 5, 1913.

DEAR SIR:—

We invite your attention again to our regular annual sale of Scotch pedigreed Short-horns. The date is Wednesday, April 2d, and we will sell forty females and fourteen bulls. This number includes seven females and one bull from Heart's Delight Farm, W. H. Miner, proprietor, Chazy, N. Y.

We wish to assure you before saying anything further, that the present offering will suit you and interest you if you are in the market for a high-class young herd bull or well-bred females that are very choice individually. About eighty per cent of these cattle are of Whitehall Sultan line of breeding. Please stop and consider what this amounts to. You can take the reports of the Short-horn Show at the International for the last five years, and you will find that more than fifty per cent of all the prize winners at this show carried the blood of this one sire. Anoka was the home of Whitehall Sultan for eight years, and it was from here that fifty sons and daughters have been sold for over $50,000. These prices have been justified by the results. We would like to say in as few words as possible something to convey to you a correct idea of the general quality of our coming offering, and it is this: They are, taken all together, the best lot ever sold from Anoka and a Short-horn Show that we will be proud to have you see. To any one who buys ten head will pay the freight to any point in North America.

We are pleased to submit to you, Representative of The Homestead Johnson's appraisal of the cattle, which will appear in this and subsequent issues and also to mail to you the catalog on application. Yours truly,

ANOKA FARMS, by F. W. Harding, President.

HANNA'S SHORT-HORN OFFERING
CHICAGO, ILL., FRIDAY, APRIL 4th
40 HEAD---10 BULLS, SONS AND GRANDSONS OF IMP. VILLAGER

NINE daughters of Villager are also listed, and all females of breeding age are bred to him or one of his sires, Village Denmark and Village King. Villager is proving himself one of the great sires of the breed, having to his credit at the 1912 shows the undefeated senior and junior heifer calves, and the undefeated calf and young herd. Listed for the sale are many of our best show and breeding propositions. You will like the cattle. No better lot will be offered this year. Herd heading bulls of the choicest breeding. Females that will win in any company, and breeding cattle to strengthen any herd. Write for the catalog, mentioning The Homestead, to

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A. F. HAGER'S MAPLE LAWN HEREFORDS
at Public Auction, AVOCA, IOWA, THURSDAY, MARCH 20TH

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54 HEAD 54

Twenty-six choice bulls, twenty-eight cows and heifers. Included will be my great herd bull, ST. ELMO R., a bull of unsurpassed merit as a sire and an individual. This is one of the greatest Hereford herd bulls offered either publicly or privately in recent years. There will be twenty-four young bulls in this sale that are as good as will be sold in any sale this spring. My splendid Maple Lawn herd is regarded as one of the greatest today in the West, and I am not ashamed to invite the most critical to my sale as I know they will be satisfied with my cattle. I am selling a grand, good lot of cows and heifers, all bred and safe in calf. No better offering will be sold this year. Write for catalog at once. Address

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0 Heavy-Boned, Growthy Poland China Boars
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QUALITY in ANGUS BULLS
g, black business bull—Ready r you—The kind you want— oth quality and price will ease—Come to see. **H. J. HESS** WATERLOO, IOWA.

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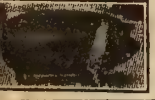
VON 500 prizes at leading state fairs and International Exposition the past five years, 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for her show or breeding stock. Write today. R. L. BOLLMAN, COAL VALLEY, ILLINOIS



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SUNNY SLOPE HAMPSHIRE SWINE

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WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our are aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today. MIKE SHARP & SONS, COAL VALLEY, ILLINOIS

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FALL and winter yearling sows bred to get of Erlanger 1039. Fall sows and male pigs for sale. Prices reasonable. W. M. Sipherd, Grand River, Ia.

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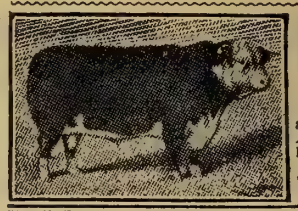

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BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah. Newton, Iowa.

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I HAVE a good thick yearling at $150. A good 2 year old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, and they are good ones. Lamplighter, Earl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa. P. W. REECE, R. 3, ELLMORE, MINN.

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12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals. G. G. CLEMENT - ORD, NEB.

HAGER'S HEREFORD SALE
AVOCA, IA, MARCH 20, '13
50 HEAD—25 bulls, 25 cows and heifers.
Send for my catalog. Address
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THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

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TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
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I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address
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1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.
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Short-Horn Herd Bull

FOR SALE—Earl of Linwood 306024, roan, calved Oct. 22, 1907. Sire Matchless Robin by Imp. Cock Robin; dam Imp. Belle of Ordens. Earl of Linwood won 9 in class of 33 bulls at Chicago, 1908. Weighs 2,000 pounds in breeding condition. Absolutely sure, and has a kind disposition. Sires excellent calves. Also 13 months' old red calf for sale. Prices right. Address
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FOR SALE, PURE-BRED
SHORT-HORN bulls fit for service. Got by Grand Champion 357001, and the dams got by Bridegroom 224977, and he got by Imp. Merry Hampton 132572 (73063). E. C. Matthiesen, Keystone Stock Farm, one mile north of Bryant, Iowa.

EGGER'S SHORT-HORNS
THE real beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and address J. F. EGGER & SON, ROCA, NEB.

15 SHORT-HORN BULLS

ALL blocky Blood Reds, 10 to 14 months old. Address J. E. BARR, R. F. D.4, Davenport, Iowa, successor to I. Barr & Son.

7 GOOD YEARLING SCOTCH AND Scotch-Topped Short-Horn Bulls
FOR SALE at the Pike Timber Stock Farm. Address Davenport & Mack, Belmond Iowa.

WAYSIDE FARM SHORT-HORNS
9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE, - - Mt. Vernon, Iowa.

FOR SALE 1 red roan yearling Scotch Short-horn bull, 1 eight months old black Percheron filly, 1 three-year-old French Coach stallion, 6 choice, big-type Poland China gilts. Address Henry Moll, Garner, Iowa.

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1878 THE WORLD'S GREATEST COLLECTION OF 1913

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PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST. Send for our handsomely illustrated catalog. 1st 1913 importation arrived Feb. 13th. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

OUR FIFTH ANNUAL

30-Day Sale Starts March 1st

THE offering consists of a choice selection of imported and American-bred Percheron and Shire stallions and mares. We were never better equipped to furnish the most discriminating buyers with first-class stallions than we are at present. Our horses were imported last October. Are perfectly acclimated, are two and three years old, all dark colors, weighing from 1,800 to 2,200 pounds. The mares are of the large brood type of serviceable age and are in foal. We give our customers fresh, clean, sound horses each year. They are not stale from overfitting. They are the right type with plenty of size and bone. We sell our horses at prices any farmer can pay. We have a large assortment to select from. Every animal guaranteed sound and a satisfactory breeder. If you want the best at prices that defy competition do not fail to visit us before buying elsewhere. We have a few good aged horses that have been replaced with two year olds, sound and good breeders, that will be sold very cheap. Terms to suit any one. Come and see us or write today for full particulars. Homewood is conveniently located 23 miles south of Chicago on Big Four and I. C. R. R., with trains to and from the city every hour. Barns near station. Bell phone, Homewood 58 W. Address

S. METZ & SONS, Homewood Stock Farm, Homewood, Illinois.

BELGIAN EMPORIUM of AMERICA

150 Head of STALLIONS, MARES and COLTS

including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

Fairfax is 8 miles west of Cedar Rapids on C. & N. W. and on C., M. & St. P. Come to Cedar Rapids and phone for auto to meet you at interurban 3 miles from farm. Car each way every hour.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA

J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION

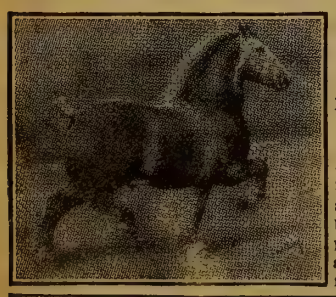
We have all ages. Write for catalog, prices and terms.

Merry King 13229
Imp. & owned by John Leitch,
Prop. Avondale Stud Farm
La Fayette, Illinois.

J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.



W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA.

---

40 MAMMOTH BLACK JACKS 40

A FEW JENNETS

STUD jacks and great mule jacks are our specialty. Jacks that stand from 15 to 16 hands high and range from 2 to 5 years old. Blacks with mealy points. Come and see them. Address, mentioning The Homestead.

DEIERLING & OTTO, Queen City, Mo.

RED POLLED CATTLE.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.

FRANK J. CLOUSS, Barnum, Iowa.

WILES' RED POLLS

SOME very choice butts, good even fleshers, sons by Happy Jack 2d and all out of choice milking dams. The breeding is first class and the prices right. LUKE L. WILES, Plattsmouth, Neb

---

HORSES AND JACKS.

PERCHERON and BELGIAN STALLIONS and MARES

IMPORTED and Home Bred. High-class horses on hand.

CALL AND SEE US.

E. H. Knickerbocker & Son
Fairfax, Iowa.

DON'T WASTE TIME

EVERY spring your mares drop inferior colts you lose one more year of time in which to breed the stuff that pays. There's profit in Percherons because they are what's wanted. Don't delay. Investigate now I'll put my time against yours to prove you should.

Purchase Percherons

Address or call upon me freely. Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

SUNNY PLAIN FARM

I WILL sell a few imported mares and fillies, mares in foal to Imported Holdebert, a government stallion of France, all grays. I take plenty of time in buying; no common stuff. Also five coming three imported and home-bred stallions. All the stallions to one firm, if desired, or separately. Any way to suit the buyer. Come aud take a look and get the price. **W. C. Baughman, Pulaski, Iowa.**

Royally Bred Clydesdale Prize Winners

2 stallions, one a full brother to the state fair winner, Forest King; the other, a yearling, by him. They have size, big flat bone, good feet, are drafty types. One mare, the dam of the young horse, and a good one. I guarantee them to be right in every way. Address JAMES PEDLEY, Britt, Iowa.

FOR SALE Reg. Belgian stallion Reve d' Or II., imported in dam, strawberry roan, 3 years old April 21, '13; wt, 1850. Also two coming two-year-old Reg. Belgian stallions for sale. E. L. Beard & Son, Decorah, Iowa.

WANTED Shetland Pony; must be broke to ride, perfectly gentle, any color, mare pony, not over 8 yrs. old. Give description and price in first letter. John E. Wallace, Weldon, Ia.

IMPORTED PERCHERONS

THREE high-class stallions of good style, plenty of quality and A 1 breeders. A snap to quick buyers. **A. H. GEROT, Riverside, Iowa.**

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, In.**

PERCHERONS FOR SALE Stallion and mares A Short-horn bull 5 months old. W. H. Miller & Sons, Independence, Ia.

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

OUR ENTIRE HERD OF 40 SHETLAND

ponies for sale at closing-out prices. Address **Spivey, Robb & Co., University Place, Neb.**

FOR SALE Ten head of Percheron stallions, mares and colts. Address **Ashbaugh Bros., Maynard, Iowa.**

PERCHERON STALLION in P. S. A., foaled June, 1910, wt. 1700. State certificate of soundness. C. W. Chandler, R. 4, Kellerton, Ia.

PERCHERONS Imported and home-bred stallions and mares from $200 to $500 each. **H. REDENIUS, - Rushmore, Minn.**

JACKS AT PRIVATE SALE

IF you want the BIG kind come to one of the oldest breeding barns in the state where you will find the big, heavy-boned, black fellows that will do your country good and at reasonable prices. Mention The Homestead and address

G. M. SCOTT, - Ren, Missouri.

VAN STEENBERGE'S DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,
OGDEN, IOWA

German Coachers

SEVEN or eight head of the very best this breed can show, stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., - Hinton, Iowa.

BREEDER OF PERCHERONS AND BELGIANS

I HAVE now for sale a number of stallions ranging in age from three to seven years. Some are home bred and others are imported. They weigh from 1,900 to 2,300 pounds. Prospective buyers are invited to make a personal inspection of these horses. Terms reasonable. I have one three years old and weighing 2,400 pounds.

P. J. EGGERS - Denison, Iowa.

Hart Bros.

Osceola, Iowa

Our 1912 importation now in our stables. A high-class lot of imported **Percherons, Belgian and Shire stallions and mares.** Come and see them.

FORD STOCK FARM

YOUR CHOICE of Imported Percheron and Belgian stallions at $100.00 profit, absolute first cost revealed in plain figures, the best money can buy, positive guarantee with every purchase. Correspondence, inspection and personal acquaintance solicited. INVESTIGATE.

FORD & HARRINGTON, Parker, So. Dak.

DUNHAMS' PERCHERONS

are today as for the past forty-seven years the

- B-E-S-T -

Fresh importation. Catalogue FREE.

DUNHAMS, Wayne, Du Page County, Ill.

FOR SALE

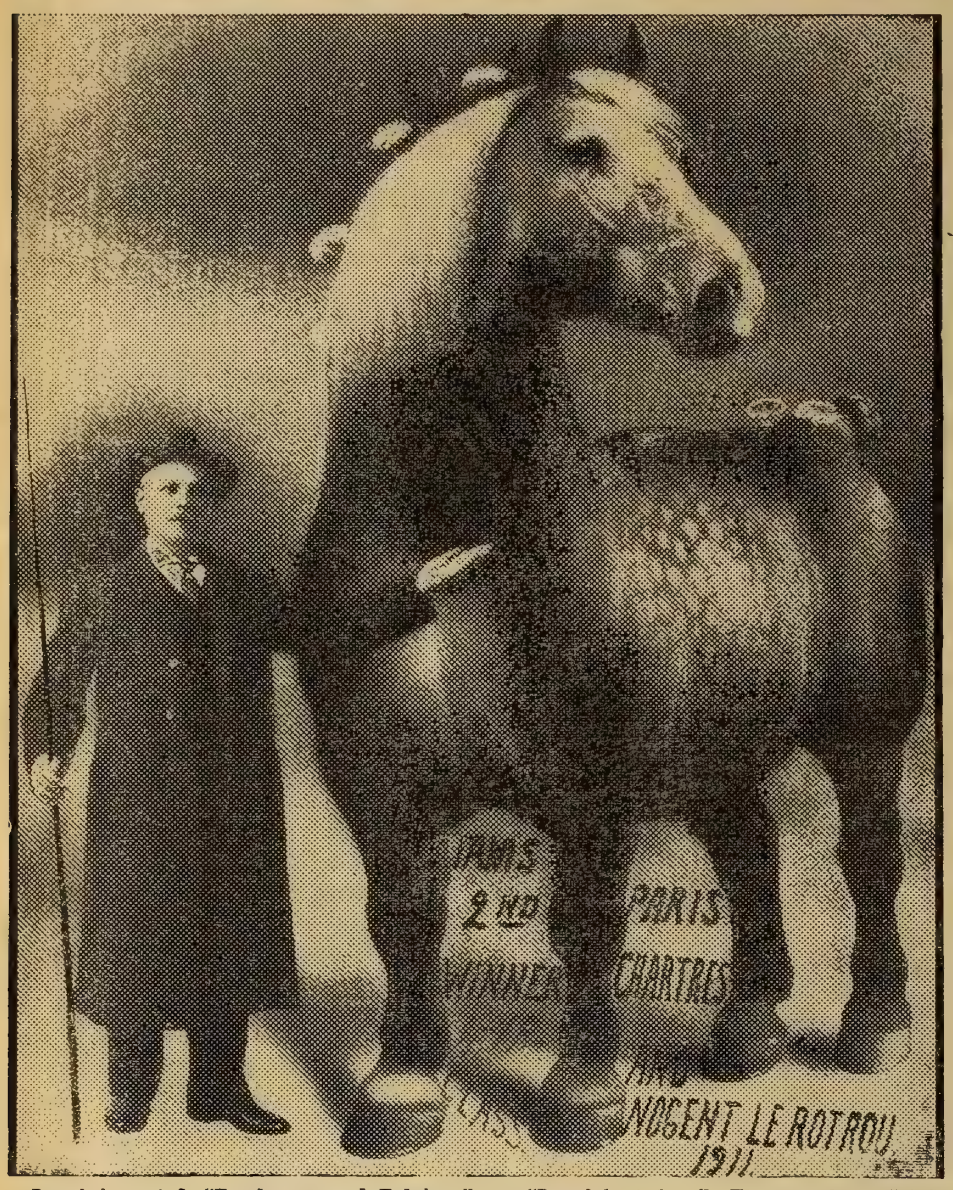
HOME-BRED registered Percheron stallions and mares. Also standard bred, both sexes.

E. P. HAMILTON & SONS,

Garden Grove, Decatur county, Iowa. R. F. D. 2. 23 miles southwest of Chariton.

FOR SALE—An English shire stallion and a Missouri-bred jack. Good breeders. Sure foal getters. Prices reasonable. L. B. Cummings, Clearfield, Ia.

Frank Iams' Show Horses



Iams' imported "Percherons and Belgians" are "Iams' best buy." They need no "state stallion law" to make them sound. They are all sound "bellringers." Ikey buyer:—Get into **"Iams' money-saving game."** See **Iams** and his **"peaches and cream"** imported stallions, "prize winners," that he sells at **$1,000** and **$1,400** (few higher). Imported mares—**"topnotchers"**—at **$700** and **$1,000. "Ikey,"** be a **"wise guy"**—buy **"show horses" of Iams**—who has crossed the ocean **50 times** for horses and **sold 5,444 registered horses. "Iams' 30 years of success"** make him a safe man to buy from at **special democratic low prices.** "Everybody is Doing It."

are **"Model Drafters" of Big Size, Quality and Finish.**—**"Iams' thirty-one years' of success"** makes it safe for you to buy the best horses, for they are "up-to-the-minute" and 10 years in advance. They are the **"drafty, big-boned tops"—nifty, big "black boys"**—the **real "medal winners"**—sensational **show and business horses of note, "ripe peaches"** from the **"select 400."** Big, classy **"peaches and cream" "black boys."** The **"Iams brand"** of drafty **"top-notchers."** Iams' **importation of Percheron and Belgian**

Stallions and Mares are in the "Pink of Condition"

and ready for a good selling. **"Ikey Boy,"** smile sweetly, and hundreds of **Iams'** satisfied customers **"will sit up and take notice"** that **Iams,** the **"king pin"** horse importer, is still **"doing business"** at the **"old stand."** Iams is **"pushing"** his horses to the front. The big **"peaches and cream" "stallions and mares"** are **attractions** that can't be **overlooked.** Iams **mesmerizes** buyers with **"real drafters"** at **"bargain prices"** and having the **"horses as advertised."** Iams' **"competitors"** and "hammer knockers" are **"boosting** Iams" by their "knocks" until **now** he is **known** as the **"millionaire horseman,"** and on **"Easy Street,"** and growing fast. **Ikey, "come on along"** and **sing Iams' song.** He is selling these **"aristocratic," fancy "black boys" cheaper** than ever—**or better horses for less money—$1,000 and $1,400** (few little higher).

80 Percheron and Belgian Stallions and Mares 80

They are **"models"—"humdingers."** They are two to five years old, weigh 1,700 to 2,500 lbs.; 80 per cent blacks, 50 per cent ton horses. Many **"prize winners"** and **"gold medal horses."** Big, **drafty "topnotchers,"** with big bone, quality, style, finish and **action to burn.** They are **"eye-openers."** Larger and better horses than seen elsewhere. Big **"business propositions"** that make **"the wheels work fast"** under a **"buyer's hat."** **"Georgie, dear," Iams** made a **"big killing"** by buying his horses in Europe in **October and November, 1912. "Dry weather," "bad crops," "war scare," "close money,"** and **"Iams' cash"** caused the **"prize winners" and "tops"** to be thrown on the market for a **"good selling."** Iams **"cut the melon"** and bought the **"rippers"** at **"knock-out prices."** Iams will give his customers the benefit of his **"good buy." "Ikey boy," come on down town and see Iams** and the **nifty, big "black boys" and "sensational," low, democratic prices. "Everybody's Doin' It."** Then get into **Iams' "get-rich wagon"** and save **$1,000** on a **"top stallion"** (and you wear the diamonds). Iams is a **"big fly in the ointment"** in the horse world. "He keeps the gang guessing." **Iams** sells **"imported horses only"**—(they win 90 per cent of prizes at big horse shows). No **"American-bred full bloods"** with questionable breeding—no **"auction stuff"** or **"peddlers' horses"**—only **"choice drafters"** of big size, bone, quality and finish. **"Iams' horse show"** makes you **"sit up and take notice"** and buy a $3,000 stallion at $1,000 or $1,500. Then your sweetheart wears the diamonds. Iams' imported horses are **"registered," "approved," "branded," "inspected"** and **"certificate stamped O. K."** by governments of **"France and U. S. A."** All of Iams' stallions and mares have been "inspected" by a Nebraska Deputy State V. S. and a **certificate** of **"health and soundness"** is given with **each horse.** Iams has the **"crack stallions and mares"** you **"read about."** Buy horses of Iams and you won't **"get stung" in horse or price. "Dolly D,"** waltz me around **once** again, **"Ikey;"** land me at **Iams' box office and importing barns.** Full to "the roof" with **"black boys"** (all must be sold). **Reduced prices.** All the

World Knows Iams and His "Peaches and Cream" Horses.

1912 was Iams' best business year. **1913 promises to be a bumper year to Iams and his customers.** He saved **$300,000 to stallion buyers** in 1912. Watch **"Iams' smoke in 1913."** Iams' 30 years **of successful business** make him a **safe man** to do business with. **Iams sells horses "on honor."** A boy or a lady can buy as cheap as a man. **"Ikey,"** be the **"wise guy."** Buy imported **stallions of Iams.** He is **reliable** and a **"live wire"** for **big bargains.** Iams' 1913 **horse catalog** is an "eye-opener." It has

"A Laugh" and a $1,000 Bargain in Every Line.

A "bunch of gold," the "book of books," to stallion and mare buyers. It is full of **"wide-as-a-wagon drafters"**—the real **"peaches and cream"** stallions. It shows **largest imported stallions and mares** in the United States, **"true to life," and truths, facts, "business propositions,"** and 100 illustrations of **"topnotchers"** and the **"tricks of stallion peddlers"** and **"auction block"** salesmen. It is the **finest, most elaborate and original up-to-date book** in the world. **Iams, the "square deal" horseman,** makes every statement in **ad or catalog good**—or you get the $500 he hangs up. **Iams** guarantees to sell you a

Better Imported Stallion at $1,000 and $1,400

(few higher) than is sold to **stock companies** for $2,500 to $5,000. Imported mares, $700 and $1,000. Iams gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish $1,500 insurance. **IAMS buys and sells every stallion himself.** Saves buyers $1,000 in **commissions** and **middlemen's profits.** He buys stallions by **"train load."** He speaks the languages—(saving 20 per cent). He is **not** in the **"stallion trust."** He pays no **"slick salesman"** a commission to **help "do you."** He has no **two to ten partners**—to share profits. He **"pays cash"** for his horses

Iams Sells "Top-Notchers" by "Hot Advertising"

and having **"the goods."** **"Big Moike,"**leave your **"happy"** home and buy a **"top"** stallion or pair of **imported mares** (of **Iams**) that bring colts that sell at $500 each. **"Papa,"** don't let those **"auction men" "hand you a lemon"** in one of those **"so-called" "American full bloods"** of **questionable breeding.** Buy an **imported horse of Iams,** the **"reliable horseman."** Then we will **"all wear diamonds."** Iams' **"selling clothes" fit all buyers.** Write for **Iams' million-dollar horse catalog.** Iams won't let you go without a **peaches and cream** stallion or mare. **"He sells the tails off them."** Iams' guarantees are backed by **"half million dollars."** References—1st National and Omaha National Banks, Omaha; Packers' National Bank, So. Omaha; Citizens' State, 1st State and St. Paul State Banks, **St. Paul, Neb.** Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL - - NEBRASKA

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

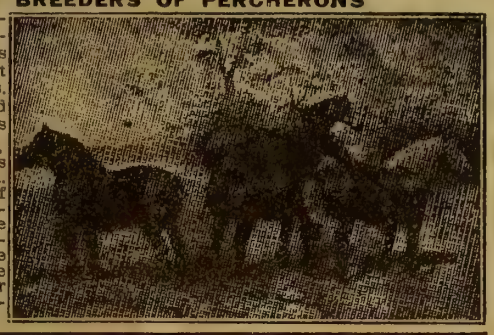
BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS



Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

GENTLEMAN, the time is at hand when you can no longer stand these scrub, blemished, mean dispositioned horses with bad conformation and loaded with fat. We have sold stallions to customers that like to get rid of that kind. They paid, big, long prices and you can now buy them for most anything you offer. Let us show you the right kind, from 1,800 to 2,200 pounds at the right price. Reliable guarantee and state inspected. We also have a few imported mares in foal weighing from 1,900 to 2,200 pounds. Will pay $600 C. O. D. to match them up. We were born and raised in France and appreciate good horses. Reference, 1st National Bank, Seward, Nebraska. Address

JOSEPH ROUSSELLE & SON, SEWARD, NEBRASKA

Twenty-five miles west of Lincoln.

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of **PERCHERON** stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

PARAMOUNT STOCK FARM

BREEDS AND IMPORTS

PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to **Hudson, Iowa,** and see **Crownover's** new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

WILLIAM CROWNOVER - - HUDSON, IOWA

PAUL'S PERCHERON PLACE

IMPORTED AND HOMEBRED

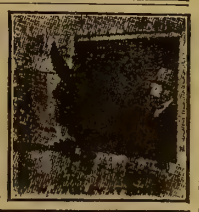
STALLIONS, MARES, FILLIES

Barns adjoining city limits, on C. R. I. & P., C. M. & St. Paul and C. B. & Q. Railroads. Address

WASHINGTON, IOWA.

LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10



SELL or trade for good jacks. All registered, mostly imported. **40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS** 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. **NO PUBLIC SALE THIS YEAR.**

W. J. FINLEY, - HIGGINSVILLE, MO.

FAIRVIEW STOCK FARM

PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK, - - LITCHFIELD, NEB.

IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

JACKS AND JENNETS

One of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. Reference: The banks of Lawrence. 40 miles west of Kansas City. Address **Al. E. Smith, Lawrence, Kansas**

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

GALBRAITH'S CLYDESDALES

are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action, size, substance, style or fashionable breeding. Prices very moderate.

ALEX GALBRAITH & SON, DE KALB, ILLINOIS

By far the oldest and largest Clydesdale importers in the United States and the only firm in the West owning an International champion.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP, EOLIA, PIKE COUNTY, MISSOURI

IMPORTER AND BREEDER OF PERCHERONS AND BELGIANS

CUSTOMERS get their money's worth on stallions and mares. Every animal just as represented. Can't be under sold by any firm, considering quality. All young, from yearlings to five year olds. Farms one mile from town. We meet trains.

C. G. GOOD - OGDEN, IOWA

IMPORTED BELGIANS

I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.

R. F. FRENCH, INDEPENDENCE, IA

SHIRES

TWO GOOD STALLIONS and FOUR MARES for sale. Write for information and price.

ROBT. JARMAN, Carlinville, Illinois

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America. Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

SHIRE AND PERCHERON STALLIONS AND MARES

IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

SHIRES

SOME of the very best of the breed. Stallions and mares. Our prices attractive, our horses must please, also our terms.

ED. H. MAGOWAN & SONS, Gibbon, Neb.

WM. GRAFF

Imported Belgian, Shire and Percheron Stallions for sale at all times. Write me, address

MINIER, - - - ILLINOIS

PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA

Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co.

BOX 80 LINCOLN, NEB.

IMPORTED PERCHERON AND BELGIAN STALLIONS

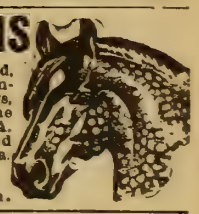
SOME extra good three and four-year-old stallions, as good as anybody can show you. All weighing a ton or better. Write, or better still, come and see me.

J. R. JUSTICE

UNION HOTEL, GALESBURG, ILL.

Bell Phone 237. Burlington and Santa Fe railroads.

PERCHERONS



THREE coming 4-year-old, 3 coming 3-year-old, 2 coming 2-year-old stallions. Grays, blacks, and blue roan. Home bred. Registered P. S. A. Heavy, well grown and showy. South central Iowa. Fast trains. Address

FRED CHANDLER
Route 7, Charlton, Iowa.

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

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All I ask you to do is to fill out the coupon, tell me how many head of stock you have and mail it to me today. I'll ship you enough Sal-Vet to last all your stock 60 days. You simply pay the freight charges when it arrives and at the end of 60 days report results. If Sal-Vet does not do what I claim you won't owe me a penny. Send the coupon NOW. Address

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P. O......

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60-day shipments are based on 1 lb. of Sal-Vet for each hog and sheep and 4 lbs. for each horse and head of cattle, as near as we can come without breaking regular pkgs.

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From Actual Users

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"Sal-Vet is a wonder. I had fourteen shoats that would not fatten. I fed them Sal-Vet and I was very much surprised to see come from them rolls of worms from twelve to fourteen inches long. These shoats began to mend at once and are now doing finely."—J. E. SNELL, Flora, Ind.

"I am very much pleased with the results from feeding Sal-Vet. I have had no sick hogs, while my next neighbor has lost over thirty from cholera. I surely will never be without Sal-Vet on my place again."—ROY O. TRUITT, Lincoln City, Delaware.

"Have been feeding Sal-Vet for the past sixty days, and am much pleased to say that my pigs did better this winter than ever before. My neighbors have been feeding their hogs with other remedies, and their hogs have been dying right along, while I have not lost a single one of my Sal-Vet fed pigs."—(Signed) D. S. JONES, Venedocia, Ohio.

"As a stock tonic and worm remedy I do not hesitate to say that Sal-Vet is unsurpassed by any compound I have ever given a trial; and as you well know, my business as Veterinary Editor of the National Stockman & Farmer, and the Tribune-Farmer of New York, requires me to test many tonics and remedies for animal ailments. You are at perfect liberty to say, that I consider Sal-Vet one of the most valuable compounds as yet discovered for use by the live stock owners of this country, and were it to be used more generally the worm family in the animal kingdom would soon be nothing to fear, and colts in horses would be far less in evidence than at present."—C. D. SMEAD, V. S., Hector, N. Y., New York State Veterinarian, Veterinary Editor New York Tribune-Farmer, Veterinary Editor National Stockman and Farmer.

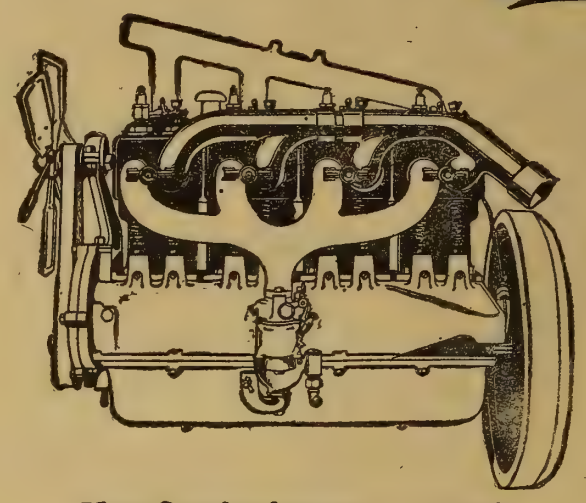
"After feeding Sal-Vet to my horses and cows for a month, I am glad to give this preparation my hearty endorsement. In order to have reliable data before expressing my opinon about Sal-Vet, I gave it to 21 cows in their feed for a month. Eight others were given no Sal-Vet at this time. At the end of thirty days test, the 21 cows that had been given Sal-Vet showed a tone and condition of health that was really remarkable. The eight that received no Sal-Vet have a more or less listless appearance, showing poor nutrition doubtless due to worms or indigestion. Outside of Sal-Vet all of the 29 cows received the same ration."—L. H. COOCH, Editor Practical Farmer, Philadelphia, Pa.

PRICES 40 lbs., $2.25; 100 lbs., $5.00; 200 lbs., $9.00; 300 lbs., $13.00; 500 lbs., $21.12. No orders filled for less than 40 lbs. Never sold in bulk; only in Trade-Marked Sal-Vet packages.

The Iowa Homestead

VOL. LVIII. NO. 12 DES MOINES, IOWA, MARCH 20, 1913. WHOLE NO. 2893

Overland



How Overland motors are made

All Overland motors are designed by Overland men—made by Overland men—and made in Overland factories. We will build 40,000 motors this year. No other automobile manufacturer will build as many of this type. That is why we can build them better, and for less cost. We employ the most skilled motor builders in America.

Following are a few of the most important facts about the Overland motor.

Cylinders have large water-jackets and are cast singly, increasing cooling efficiency with the advantage of being able to replace a single cylinder at low cost should an accident occur. The crank shaft and connecting rods and all other forgings are of high carbon manganese steel.

All bearings, cylinders, pistons and rings are ground to accurate and tested smoothness, insuring long life, freedom from wear and positive compression.

All the wearing surfaces of the valves are ground to a one-thousandth part of an inch. Owing to their peculiar design and large size they enable the motor to develop at least fifteen per cent more horsepower than any other motor of the same bore and stroke.

The cam shafts are drop-forged (in our own drop-forge plant, which is the largest in the industry) oil-treated and case-hardened. They are ground and machined automatically, insuring positive accuracy in the relative position of one cam to another.

This is the only car of its class provided with a five-bearing crank shaft. This crank shaft is drop-forged from one piece of carbon manganese steel and rotates in five bearings of unusually liberal size insuring quietness and extreme long life.

The crank cases are cast in two sections, of the finest grade of aluminum alloy attainable—and cast in our own foundry.

No other motor in the world is given a more severe test and thorough inspection. The engine is belted up for two hours, and driven by other than its own power to limber it up so that it will start easily. Then it is put onto the block and run from 8 to 16 hours under its own power.

The Importance of a Powerful Motor

As the motor is the most important part of a car, it is safe to assume that you can judge a car by the performance of its motor. Therefore, be guided and informed by the following information.

Every practical farmer knows the value of a good motor in an automobile. He knows, too, from experience, what constitutes a good motor and what is expected of it. He wants power, economy and silence.

The motor is the most expensive single unit of the Overland car. It has a 4" bore and a 4½" stroke. It is the most efficient 30 horsepower motor made. We say efficient for it has, by demonstration in tens of thousands of cars, proven to be the best for your specific purposes.

It is exceptionally economical to operate—using less fuel per mile than any other motor of equal size.

It is remarkably powerful, developing forty to fifty miles an hour with ease; and over your kind of roads, without eating up an unnecessary and costly quantity of gasoline.

It is the only motor of its size made with a five bearing crankshaft which makes for real smoothness, silence and ease when in operation. This feature is only found on very high priced cars.

It is remarkably simple. It is practically frictionless. Requires no coaxing or continual adjusting. In fact, you seldom have to lift the hood. Is always obedient.

And the self-starting feature adds the final touch of perfection. Just throw a little lever and you're off. Your daughter can start, operate and drive an Overland as well and as easily as you can. It will always start in bitter cold and freezing weather as quickly as in the summer—by just switching the little lever on the dash.

So we ask you to judge the exceptional value of this car by the exceptional efficiency of its motor.

This big, powerful, comfortable touring car costs you 30% less than any other similar car made.

We have some very interesting books we would like to send you. They are free. Write us for a set today.

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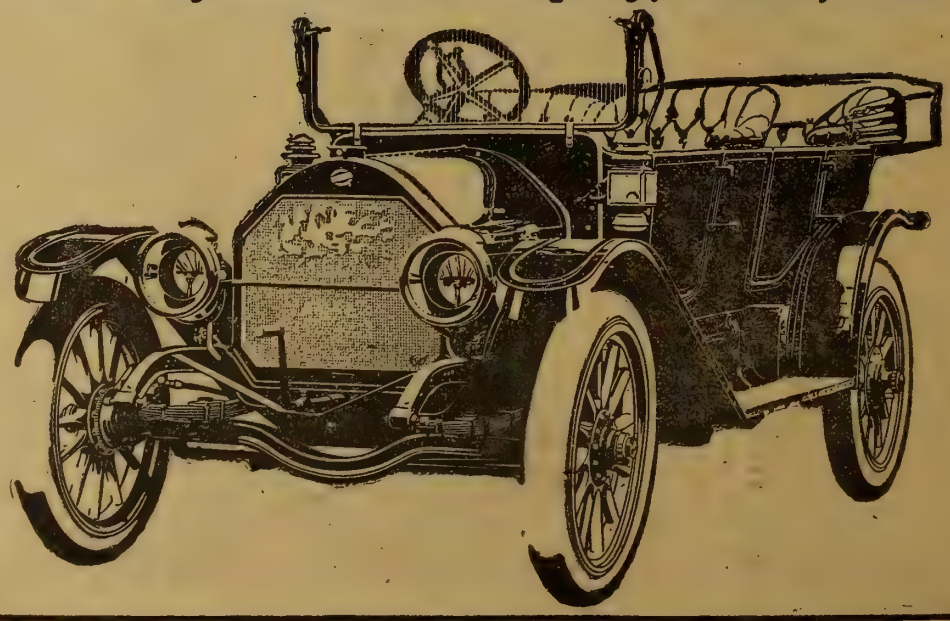

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- Clear Vision, Rain Vision Wind-Shield
- Presto-O-Lite Tank

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 20, 1913.

Beef Production and Soil Fertility

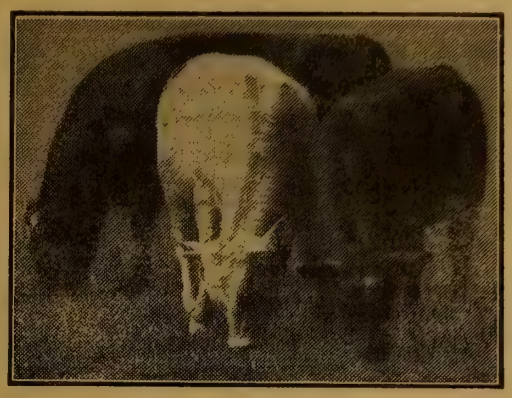
Soil Enrichment a Most Important Secondary Factor in Feeding Operations—The Policy of Raising One's Own Feeders the Most Profitable.

IS IT PROFITABLE for a beef feeder to raise the calves that he will fatten for market? A prominent Indiana cattleman asserts that where the farmer is located proximate to a good central market that the raising and finishing of beef calves are profitable. Under special conditions of a nearby supply of relatively cheap feeder calves of the desirable type he declares that it is more profitable to buy the youngsters than to try to raise them. This Hoosier feeder says that whereas it cost him $22 per animal to raise a good yearling that he has been able to buy calves of identical quality and type in his neighborhood for $18 per head. In consequence he has abandoned his breeding operations and has taken to buying up and fattening feeder calves.

Quite generally in the past the raising of feeder calves and the fitting of them for market have been considered as two distinct operations to be handled by separate farmers. The professional cattle feeder has always preferred to buy his animals rather than to attempt to raise them. His interests in the cattle-raising industry was limited to obtaining a sufficient number of animals of proper quality and at a low enough price to enable him to fit them for market at a profit. However, a tendency is being noted in certain beef sections of the country for the feeders to raise their own fattening cattle. In regions of the country where much of the land is stony, rough, or too steep to cultivate, but is adapted to the production of grass, the growing of feeder cattle may prove profitable. On the other hand there are many instances where the raising and feeding of animals on the same farm would bring greater returns in money value, besides adding to the permanent fertility of the soil. The farmer who has as many as thirty breeding cows on his farm should make it a rule to fatten their offspring, as he can seldom afford to sell the calves to the professional feeder. Such a feeder usually makes money on the fattening process and the man who raises calves in sufficient numbers should keep this profit on the home farm. The farmer who has from eight to twelve calves or steers ready for the feed lot will ordinarily find it profitable to buy up enough animals to fill out a load so that he can tone up all of these cattle to market bloom on his home farm.

Recent results obtained at the Alabama Experiment Station show that an attractive profit is possible in the raising and feeding of beef calves where intensive management is practiced. A test was run to determine the cost of finishing high-grade calves for market on different feeds when the animals were less than one year old. Three lots of calves were kept for four months on a basal ration of cottonseed hulls and alfalfa hay. Lot 1, on a supplementary ration of cottonseed meal accomplished an average daily gain of 1.71 pounds at a cost of 6.22 cents per pound; Lot 2, with cottonseed meal and corn-cob meal in the proportion of two to one, made an average daily gain of 1.76 pounds at a cost of 6.19 cents a pound; while Lot 3, with cottonseed meal and corn-cob meal in the proportion of one to two, made a gain of 1.83 pounds at a cost of 6.83 cents a pound. The third lot gave a larger percentage of dressed weight and sold for a higher price, but not for enough to pay for the extra cost of feed.

Furthermore fifty-two calves were fattened for the spring market on a ration of cottonseed meal, cottonseed hulls, and mixed pea-vine hay. During a feeding period that lasted 112 days these youngsters made a daily gain of 1.24 pounds at a cost of 6.97 cents per pound. At the end of the period each calf sold for a net profit of $3.50. In another test thirty-four calves were wintered on cottonseed meal and hulls, corn chop, and alfalfa hay. The average daily gain accomplished per animal was 1.13 pounds at a cost of 8.63 cents per pound. Toward the end of March these youngsters were turned out to pasture and



TURNING GRASS INTO POUNDS.

for the succeeding eighty-nine days each calf gained 1.3 pounds at a cost of 4.84 cents per pound. The net profit per fat calf amounted to $1.86

These results are of significance to the northern farmer, as they indicate the profit to be realized in a comparatively new phase of the beef industry. Of course, the nutrients used in these tests will be more expensive under northern conditions unless it is possible for the operator to use some cheaper substitutes. At any rate a farmer may expect to realize a reasonable profit on beef calves when he raises and fattens them on his farm and sells them when they are twelve to fourteen months old. An increased profit will result where the calves are fed corn-and-cob meal as well as cottonseed meal, cottonseed hulls and pea-vine hay. It is apparently more profitable to feed a heavy ration and to sell the calves at the end of the winter months where the prices are normally high than to hold them until the early summer months.

A PROFITABLE PASTURE ORNAMENT.

MONEY-MAKERS EVERY TIME.

The connection between feeding operations and the maintenance of soil fertility is very close. There is no excuse for the twentieth century farmer going about mourning because his annual crop yield is on the decrease and his soil is verging on the worn-out condition. With the average well-fed dairy cow producing about fifteen tons of manure per year, with the ordinary ten-hundred-pound steer yielding a ton of manure a month when he is on full feed, with the farm hogs and sheep adding their quota to the annual manure pile there appears to be small reason why the farm acres should not grow richer rather than poorer. The farmer who properly conserves his manure against leaching, weathering and "fire fanging," and returns it to the field in good condition is able to put back on the land about 60 or 70 per cent of the plant food removed by the crops where only home-grown crops are fed on the farm. The farmer who purchases quite a bit of concentrates and grains of a high protein content or who trades a portion of the home-grown grains for materials of this character which are to be fed on the farm is able to practically maintain a balance between the outgo and income of plant food in his soils.

The farmer who buys raw rock phosphate at approximately $8 a ton and applies it to his soils in conjuction with well-rotted stable manure can appreciably improve the fertility of the soils. Applications of about fifty pounds of phosphate per ton of manure work wonders in rejuvenating mined-out lands that are suffering from plant food starvation.

Sooner or later every farmer in the corn belt must become familiar with the fact that his soil is more apt to be deficient in phosphoric acid than it is in any other element of fertility. A soil may be ever so rich in other elements of fertility, if the phosphoric content falls below a certain point then we must certainly have a degree of crop starvation. If it is ever remembered that a sensible system of feeding means restoring to the soil at least three-fourths of the plant food taken from it by the crop and if in addition each farmer can be given to understand that phosphorus is the chief lack in his soil we need have no fear that the farms of the central West will, like eastern lands, fall below the point of profitable production. Just as England and Germany have doubled the production of their land, so the farmers of the corn belt have it within their easy reach to greatly increase the annual profits from the acre by a sensible system of live stock production combined with a scientific application of the right kind of fertility. More than that is the consideration that the successful management of live stock contributes in the highest degree to the making of the best type of citizenship. It creates the kind of environment that is needed to keep more of our boys in sympathy with farm affairs. In other words live stock raising sanely carried out harmonizes more completely with the maintenance of ideal social standards as applied to the home and to the community than does the policy of farm mining which is after all the real name for grain growing. It goes without saying that these virtues cannot attach to the live stock industry so long as the scrub or misfit animal is enthroned and unless the constant effort is made to effect improvement in the animal form both in grades and pure breds from generation to generation.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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PLANNING A NEW HOME.

Seven weeks have elapsed since the publishing plant of The Homestead was partially destroyed by fire. The weeks have been busy ones. The chaos which confronted us on the morning of February 3d, as the firemen fought the flames in zero weather, has disappeared, succeeded by order. Thanks to an efficient organization, The Homestead has been issued from its own presses practically on time and with every line of editorial and advertising matter scheduled. And now, as spring comes on apace, the outlook is still more promising. Carloads of new type and new machinery are arriving and being unloaded in the rebuilt plant, so that by the first of April The Homestead will once more have the most complete and the best equipped publishing plant of any agricultural weekly in the United States.

How much of the success which has crowned the labors of the past seven weeks is due to the cheering encouragement of friends, near and far, it would be impossible for me to say, but no single factor has been more important. Dark days have been made bright by rays of friendship; steep places have been leveled by friendly counsel; discouragements have disappeared before tangible evidences of a friendship greater and farther reaching than I had ever hoped or dreamed. On one or two previous occasions I have taken the liberty of printing brief extracts from characteristically friendly letters. I cannot refrain from adding a few more to the cheering symposium. I have before me, as I write, three letters, selected at random from the many received in a single mail. Here, for instance, is one from a valued subscriber in Missouri typical of many of equal good cheer and comfort:

Elmo, Mo., March 10.—The Iowa Homestead, Des Moines, Iowa. Dear Gentlemen: I have been on your list for a great many years and have always believed in The Iowa Homestead. I know it will live on after I am gone and I hope it will, for the people need it. Its value cannot be estimated. Our sympathy is yours. May good health be your portion for years to come. Yours respectfully, R. T. Lamar.

Such letters spur a publisher to still greater activity and make me realize more and more the important responsibility devolving upon me. It is with this feeling that I pass along to my readers the equally valued letter from a Nebraska subscriber, who put his friendship to the test by sending the paid-in-advance subscriptions of his neighbors, writing thus cheeringly:

Holdrege, Neb., March 12.—Iowa Homestead, Des Moines, Iowa. Gentlemen: I believe that it is the duty of every man in these agricultural states to provide his friends and children with The Iowa Homestead. The moral tone is high and the practical instruction which all can get from the publication is worth a vast sum of money from an educational standpoint. It is simply in the hopes of being of some benefit to the young generation that I occasionally go out and induce my neighbors to subscribe for The Homestead. With best wishes. I am yours truly, C. L. Morse.

And last, but by no means least, this letter from another Nebraskan, who appreciates the responsibility weighing upon the publisher who hopes to be a factor in the uplift of every home into which his paper enters:

Lushton, Neb., March 10.—James M. Pierce, publisher Iowa Homestead, Des Moines, Iowa. Dear Mr. Pierce: Of course I want The Homestead, because I consider it the best farm and stock paper published. I cannot just fill out the application blank and send my check without saying a word in favor of its sterling worth. I consider your eulogy of Col. George P. Bellows worth three or four times the price of the subscription. I am sorry indeed to hear of your recent fire, but rejoice exceedingly to know that the future Homestead will be placed upon a larger scale in all its departments. I believe if all editors were as earnest in presenting the possibilities of the farm and the many false allurements of the city to their readers there would be many more producers. Wishing unbounded success to The Homestead, I am, very truly, L. H. Bellows.

It will be pleasing, I feel sure, not only to the writers of all such letters, but to all my friends and subscribers, to know that while the present Homestead building is being put into order again and equipped with unexcelled opportunities for good mechanical work, plans are well under way for a new $125,000 Homestead building to be erected before the first snow falls next winter. Already a site has been selected and purchased, a beautiful tract of land, adjacent to the railroad tracks in the rear, while at the same time fronting on the most exclusive and the most sightly residence boulevard in the city. Architects are at work upon plans for the new building which will not only house every department of The Homestead, with its allied printing interests, but also be one of the picturesque and attractive structures of the city. The building is being designed so as to be an ideal publishing plant. But it will be even more than that. It will be the home of The Homestead and of The Homestead makers, with attention paid to their every want and comfort, so that all may work together with the maximum of conveniences and fellowship to produce the maximum of results. When the building is completed and occupied nothing will give me greater pleasure than to greet my subscribers and friends in our new home, the further details and the progress of which I shall confide to them from time to time.

The thankfulness which I feel because it has been permitted me to advance my plans a whole year or more and look forward thus early to our new Homestead home can hardly be expressed. The year which started so inauspiciously, with the destructive fire, bids fair to be the most pleasant, happy and prosperous of the whole third of a century during which agricultural journalism has engrossed my undivided attentions. Twenty years ago this fall we moved into our present home. And now the newer, bigger and better Homestead home will take shape within a few weeks and be ready for occupancy within a few months. I am thankful, indeed, that the outlook for the future is so roseate, but I do not take the credit to myself. It has been made roseate because of the unswerving, inspiring and never-failing loyalty of friends, in number and cheering counsel far beyond my fondest expectations. To all these friends I can only say, "I thank you," and pledge myself to walk with them in the future, as I have always tried in the past, lending a hand when needed, doing what little I can to make farming more of an exact science, farm life more of a complete pleasure and the farmer a still greater factor in the world's progress and prosperity.

Sincerely yours,
JAMES M. PIERCE,
Publisher The Iowa Homestead.

THE FOLLY OF ROOT CUTTING.

It will only be a few short weeks until the cultivators will be taken from cover and put in shape either for a season of use or misuse. In methods of cultivation men are either orthodox or unorthodox, the latter including those who year after year work root havoc in their tillage operations. If some system could be worked out by which every man who expects to ride a corn plow in 1913 could be given an illustrated talk on the character of corn rootlets we believe that it would add millions of dollars to the income of corn-belt farmers this year. Such a lecture would convince men that the surface food of soils is the feeding ground for the most important rootlets of the plant and that to put shovels down into this network can only mean a very decided reduction of the yield. This matter was put in a forceful way at a recent Wisconsin farmers' institute by Mr. L. E. Scott, who among other things said:

The intercultivation of all plants should be shallow, fine, frequent, continuous and, if possible, level. It is well known that up to a limit, rarely reached in a northern latitude, that the warmer the soil the more rapidly nitrates will develop and the faster crops will grow. The most effective way to warm soil is to drain it of surplus moisture, which would naturally cool the soil if allowed to evaporate. But soil may be also warmed by proper tillage. With shallow tillage, the roots grow nearer the surface, where the higher temperatures are, and where bacterial action is most active.

Experiments show that with tillage one and one-half inches deep soil is warmer down to a depth of three feet than with tillage three inches deep. Also that where the surface is left smooth the soil is warmer than where the cultivation is coarse and furrows and ridges have been left. I cannot call to mind a crop but will do better with shallow tillage if that tillage is thorough.

We are sometimes asked if we would not cultivate corn deeply the first time through. When corn is big enough to cultivate, a casual examination will show you that the roots in mellow soil are three times the length of the plant above the ground. A glance at the shank of the cultivator tooth running deeply and you will see the fine and tender roots clinging to it. Prune the roots of a plant and you will retard its growth every time.

Many orchards have been permanently injured by deep plowing or even disking. The same principle holds good with all trees, shrubs and plants.

We have known of many instances where the yield of corn has been cut ten, fifteen and even twenty bushels per acre by slashing into the roots. We believe that it is quite in order to bring the subject up so that it can be pondered over before the time for doing the damage comes around. If there are any of those who enjoy the music of snapping rootlets we desire to remind them that such music is enjoyed at an enormous cost.

THE ROLLER A VALUABLE IMPLEMENT.

According to the views expressed by an Illinois subscriber the real merit of the farm roller is not appreciated by the farmers of the corn belt. In outlining the conditions under which he uses the roller and the crops which in actual experience are known to be benefited by its use, this subscriber says:

Among the many and much-needed tools on the farm I consider the land roller as one of the most important, for this reason: What success will we have in planting and cultivating our farms if the fields are full of clods and unpacked dry soil? I believe very much in the use of the roller, and especially so if the season is a little dry. In a wet season I do not consider its use so valuable, unless one breaks his ground while it is yet too wet, which will leave it in clods. Then the roller must be used if the soil is ever put in a condition to get satisfactory results from the crops.

I found the roller to be a very valuable implement in the cultivation of my cornfields in the season of 1911. If you remember, the late spring and early summer was extremely dry. From the tenth to the fifteenth of May, 1911, I planted forty acres of corn, and owing to the drouth which continued some six or seven weeks, I believe the roller was one of the best implements that could possibly have been used in the cultivation of that corn up to the time the drouth was broken by some light showers. The ground was in fairly good condition at the time of planting. When the young corn was about three inches high I plowed it, two men plowing and one man following right behind them with the roller.

In plowing the first time, even though the surface was dry and dusty, we found plenty of moist soil underneath, which would, of course, be brought to the surface in the form of small, soft, moist clods. If left in this condition they would in a short time dry out and become hard and dusty. But by following the plows closely with the land roller the soft, moist clods were easily and quickly crushed, pulverized and packed closely together, which soon formed a dust mulch and prevented the moisture from escaping from the soil. When the corn was about six inches high, the same process was followed again.

Now, by using the roller in this way I found it a very easy matter to hold plenty of moisture and my corn grew right ahead through the drouth, and I attribute this largely to the use of the land roller.

I cultivate about ten acres of sweet potatoes each season and I find the roller to be of much value in the preparation of the soil. When the soil is in a good state of cultivation I make my potato ridges with a disk cultivator, and then before setting the plants I roll the ridges, which packs them and holds plenty of moisture to cause the plants to live and grow right off. If the weather continues dry I often roll the potatoes after they have been plowed a time or two, and I find it to be a great benefit to them.

Another very important use of the land roller is in the preparation of the wheat field, and at this season of the year it is most usually dry. I advocate the practice of following the breaking plows each day with the roller, as it has a great tendency to pulverize the surface and form a dust mulch, which keeps the moisture from escaping from the soil through the air. And by so doing it is easy to prepare this soil with our harrows. As to the kind of a roller, I prefer a steel land roller to any other kind. They are much more substantial than one made of wood, and are more durable. I prefer them being in three sections, each section being independent of the other. This makes them easy to turn.

In older countries the roller has come into general use, but up to the present time it is the exceptional corn-belt farmer who attaches much importance to the value of the roller as an implement of tillage. It must be conceded as outlined by this subscriber, that the roller gives its best service during dry seasons because ideal cultivation in so far as the conservation of moisture is concerned involves the firming as well as the fining of the surface soil. The roller can generally be put to important use early in the spring on the meadows and winter wheat fields because it presses down the frost-heaved plants enabling them to take hold of the soil more firmly and more quickly. For bringing into a fine condition a surface that is cloddy no implement can be compared with the roller if it is alternated with a good surface stirring device like the common harrow. Its use even during a single season under these conditions will often much more than pay the original cost of the roller in the increase in the crop from a well-prepared seed bed.

THE GRAIN BELT LEADS.

It is notable that notwithstanding the recent agricultural development of the Pacific Northwest and the Southwest and the agricultural awakening in the East (where abandoned farms are being taken over and profitably worked) the office of secretary of agriculture has invariably come to the grain belt. This is official recognition of the fact that the agricultural heart and wealth of the country are to be found in the dozen states of the middle West popularly known as the grain belt.

The first secretary of agriculture came from Missouri, Norman J. Coleman. The second came from Wisconsin, Jeremiah M. Rusk. The third came from Nebraska, Sterling P. Morton. The fourth came from Iowa, James Wilson. The fifth comes from Missouri, with Texas antecedents and training, David F. Houston. President Wilson has followed his immediate predecessors (Presidents Harrison, Cleveland, McKinley, Roosevelt and Taft) in giving the post of honor to a man from the region which has almost one-half the improved acreage, has fully one-half the wealth in farm land and buildings and produces more than one-half of all the corn, wheat, oats, hay and potatoes of the entire United States. For a time it appeared as though President Wilson might shatter precedent and appoint a New Englander (Obadiah Gardner, of Maine), but at the last he returned to the grain belt and to the state which had already had the honor to furnish one occupant of the high office. That the honor is worthily bestowed upon Secretary Houston is testified to by one of the leading republican newspapers of Missouri in this manner:

It can be said of Secretary Houston that, although a citizen of Missouri, he is as much Texan as Missourian. It was the experience he acquired and the ability he displayed as president of the Texas College of Agriculture and Mechanic Arts, conjoined with the administrative efficiency he has shown as chancellor of Washington University, St. Louis, which marked him as a fit man for carrying out the plans of the president for the advancement of scientific agriculture and the widening of the farmer's business opportunities.

Under the continued leadership of the grain belt there is no reason why the department of agriculture should not forge ahead in the future even more than in the past and become still more of a factor in making larger and surer the legitimate profits of the most useful occupation in the world, farming.

Always keep a wooden maul at hand when there is any splitting to be done in the timber. Your ax was made to chop with, and not to beat and batter the poll up by hammering an iron wedge, either in driving it in or loosening it from the wood in splitting.

THE HARROW MUST BE USED MORE.

The average man does not realize the possibilities of increasing the yield of many or all of his crops by using the harrow more frequently. A close study of methods of soil culture employed by those who come to us from foreign lands will very quickly reveal why in most cases they are able to get larger crops than the native American. They seem to understand that the frequent harrowing of the soil brings about the rapid liberation of fertility.

An incident was called to our mind a few years ago where a Swedish farmer raised 8,000 bushels of oats on eighty acres of Iowa land the first year that he tilled American soil. The cornstalk ground used as a seed bed in this case was double disked and harrowed not only once or twice but six times. The owner of this particular farm had never raised more than seventy-five bushels of oats per acre and he accounted for the very large yield of his renter by the fact that he had so frequently harrowed the soil.

The same doctrine applies when it comes to the matter of preparing ground for corn. After the plowing is done the surface soil should be firmed and fined by the free use of the harrow. If it can be plowed early so much the better because that only affords a more ideal opportunity to do the best kind of work in preparing a seed bed. No implement excels the harrow in its effect upon conserving the moisture because it creates an ideal shallow mulch. Between the time of planting corn and the period when the crop begins to show above the ground, the harrow can be used to the greatest possible advantage as a weed destroyer as well as an agent of moisture conservation. When the weeds are young the harrow can always be counted on to do deadly work and those who are most successful in keeping their cornfields free from weeds are the very ones who make the freest use of the harrow early in the season.

A little work with the harrow on the winter wheat fields or even on the clover meadows early in the spring will often result in greatly benefiting these crops. It is an excellent plan to disturb the hard crust that forms when the land becomes settled in the spring and this can be done most effectively by the harrow, as the harrow is not a root pruner. Even though winter wheat is not seeded down and there is therefore no necessity for covering the seed, the harrow might profitably be used. The laceration of a few leaves means very little injury because the roots after all are the chief concern. If they are sound and there is plenty of moisture the plants will soon make sufficiently headway.

FAVORS THE PLAN OF ROTTING MANURE.

An Illinois subscriber, Mr. M. B. Downend, gives his method of handling farmyard manure in the following communication:

A recent issue of your paper contained an article on wasting manure. For years I have made a practice of hauling the manure to the field as fast as it is made. It is put in large piles, fifty or more loads to a pile, and as high as the wagon rack or higher. There is enough in a pile to absorb the rain and hold the liquid so it does not waste. I haul this out where I sow my oats and do not spread it until after the oats are cut. Sow the oats around it and it does not bother either in sowing or cutting them. After the oats are cut the manure is ready to spread and one man can spread from fifteen to twenty-five loads a day. At that time of the year it does not pack the ground. When the oats are growing you can drive out any time and it does not hurt them much.

We keep the manure cleaned up around the barn and feed yards by following the above plan. A flat-bottom hay rack is used for this purpose, as we have found it much easier to load and unload and twice as much can be hauled as in a wagon box or spreader.

In our opinion it is a bad practice to spread manure on the ground when it is frozen, as it holds the frost and makes the ground hard and sour. Another practice that should be avoided is that of driving over the fields in the spring when the ground is soft and packs easily, making it hard and cloddy. Whenever it is dry enough to haul manure it is dry enough to plow.

In some respects the practice of Mr. Downend has much to recommend it, but its good features are, in our opinion, more than offset by undesirable ones. It is true that when manure becomes well rotted a given quantity of it is richer in plant food constituents than fresh manure, but the fact must be kept clearly in mind that in the course of six months manure piled up in the manner here described may lose as much as 50 per cent of its weight through decomposition and in some instances as much as 60 per cent of its nitrogen content. While it is here stated that there is plenty of straw to prevent leaching, yet it is not known how much liquid manure seeps away from beneath the pile carrying with it a considerable amount of soluble phosphoric acid and potash. This being the case we cannot endorse the plan here set forth because our soils not only need the humus material that is so largely lost through the process of decomposition, but they need the nitrogen that disappears in the air from rotting manure as well as the mineral elements that are dissolved by the rains and seep away into the soil.

CO-OPERATION LOWERS LOANS.

Interest in the co-operative farm loan systems of Europe is sometimes lessened by the belief that the subject is a technical one, difficult to understand. The fact of the matter is that the systems abroad, which congress is investigating and about which so much is being written, are so simple as to be easily understood by all. The Raiffeisen banks of Germany are nothing more nor less than groups of farm neighbors who get together, agree to pool their credit resources without limit and so jointly borrow money which the association in turn lends to its members as they need it. We have not seen a more simple or more concise explanation of the workings of this system, which the American farmer is too inclined to believe is complicated, than that given by a writer in a recent number of Hearst's Magazine, as follows:

Each member of the new banking company signs a pledge of his entire resources for the bank's debts when he subscribes for his shares. Under German laws they must have a minimum share capital of ten marks ($2.38) per member. The average for all Germany is nearly twenty marks per member, and that is the amount our Westphalian farmers put in, each an equal share until the ninety-two of them—all the farmers in this particular valley—have contributed $4.76 each to make a total banking capital of $4.38.

They file their articles of incorporation—a simple and inexpensive legal process—and in a few days their charter is issued. Now they are full-fledged bankers, entitled to deal in credit just like the bankers in the cities—with these exceptions: They may lend only to their own members, who must be their own neighbors, and they may lend only for productive purposes, which must be stated in the application for each loan.

They elect officers, all from their own membership, and all without salaries except the cashier. For that office they pick one whose farm is near the center of the district, for there is no banking house to be built or rented—a back room in the cashier's house is the banking office, and his salary of ten or twelve marks a month covers the rent.

Now the applications for loans come in—many times the amount of the new bank's capital. Where is the money to come from? Out of hiding, some of it, for as soon as the new bank—their own bank—is open for business, the thriftier members uncover their little hoards and deposit them to draw interest and be loaned to their neighbors. But even these deposits do not provide funds for all the would-be borrowers. Very well, the new Raiffeisen bank gets the rest of the money it needs in the open money market; right at the bank, the best and the biggest bank in the nearest town or in any town in Germany. Is there a bank or a banker anywhere in the world who wouldn't lend, to the limit of possible demands, on the security of a note backed by the combined guarantee of the farmers of an entire agricultural community, every one of them pledging all his individual resources for the debts of the group?

Co-operation is the foundation on which the Raiffeisen banks are based. President Wilson proposes a thorough investigation to see if the system can be practiced as successfully here as in Europe. In Germany the Raiffeisen banks average only about $440 of paid-up capital and ninety-two members each, but the 15,517 of them existing in 1910 had over $500,000,000 of working capital with which they made $1,500,000,000 of loans, the average rate of interest being 4.4 per cent as against 8.5 per cent which the average American farmer pays on his loans. Once it is understood that the system is simple much of the objection heretofore urged against the adoption of the plan in America will disappear.

SUPPLEMENTING THE HAY CROP.

More than the usual number of inquiries have been received during the last few weeks relating to the probable shortage of hay this summer. In every case information is asked regarding the best means of substituting annual crops for the biennials and perennials like red clover and timothy. An Illinois subscriber, Mr. Roy Coleman, gives some practical advice on this subject when he says:

Good, well-cured oat hay makes an excellent feed for horses as well as for most all other kinds of live stock. Oats are often fed unthreshed and are usually relished by horses, though when utilized in this way they should be cut when rather green and cured like hay. This plan is practiced to quite an extent in some localities. The oats are sowed in the spring and later when the crop is well advanced they are cut and cured the same as timothy or any other hay crop is handled. When the crop is cut before it is mature enough for threshing and is well cured it is bright and very palatable. However, naturally, the greener the condition of the oats when cut the poorer will be the crop in digestible food.

Heavy, succulent oats may be cut in the morning after the dew is off and then kept stirred to let in the air. With warm, drying weather the green oats may be cocked up the next day after cutting and if opened up and exposed the next day to a bright, clear sky then it may possibly be hauled in that afternoon. However, the essential thing is to get the crop in free from excessive moisture so that it will not mildew in the mow. The time required to do this will of course depend on the condition of the oats. If very heavy more time will be required, but if rather light they will cure quickly.

It should be remembered that the horse digests his food quickly and whatever ration is fed should be prepared with the view to supply the nutrition the horse needs. Horses will work better and keep in better condition on a smaller amount of ground grain of the proper kind and an abundance of good roughage, such as well-cured oat hay, than they will on a ration of whole corn, no matter how much of it is fed. Oat hay is not only good for work horses, but it is just as valuable for young growing animals and they should be supplied with same if the best results are derived from the feeding.

The plan of harvesting here suggested will result in a very good quality of oat hay, but we desire to call attention to the fact that it is entirely practicable under certain conditions to use the binder. In this case the crop should be allowed to stand until it is just beginning to color. It should then be bound into comparatively small sheaths and the bands should not be drawn too tight. If shocked the same day the crop will in nearly every instance cure out excellently though in sheaf form. If the sheaves are made very large and bound tightly there is always a little danger of them molding at the heart and for that reason it is very important that our suggestions be carried out. It is true that it may take a week or ten days or even two weeks to cure out the crop in this way, but it is so much more easily handled when bound not only in harvesting the crop, but in feeding it that we much prefer this plan to that of cutting it with the mower and curing it out like any other crop.

SPRING CARE OF THE FARM ANIMALS.

Filth is at the bottom of about all the sickness our animals are subject to. At this season it is important that all pens and houses be thoroughly cleaned and the pure air and sunshine which have been more or less excluded over winter allowed to come in. Sunshine is a great disinfectant and sure death to disease germs. Droppings should be regularly removed from the poultry pens and the hog quarters thoroughly cleaned and every bit of litter and all other material hauled away to the fields. Whitewashing hog quarters and sprinkling lime on their yards help much in keeping things pure and preventing disease.

Mites will multiply fast as the weather warms up and it is an act of wisdom to begin the fight in time. This is especially true of poultry, for after the hens once become broody it is very hard to get rid of lice. Plan to have the chicks hatched as early as the equipment will allow them to be properly cared for. For market the earlier the chicks are ready the better the price and it is the early hatched pullet that will produce results at the egg basket next winter.

Sheep can be allowed on the spring pasture earlier than any other animals, but they should have access to their shed the same as usual. Many spring days are very cold and it is not well for the lambs to be exposed. More lambs die from such exposure than from any other cause.

After the horse is back to full work and feed it is important that only a half ration be given each time it must lay off work for a day. If on Saturday night a warm mash of bran is given and half rations Sunday the horse will be in much better state to do its work on Monday. Heavy feeding on Sunday when the horse is idle is the cause of most of the stiffness and illness to which so many horses are subject on Monday.

UTILITY OF THE SPREADER.

In times past it was the practice of most farmers to haul out the manure supply only once a year and we are sorry to say some of our farmers are still practicing this wasteful method. The manure was usually hauled out in the spring, shortly before time to begin plowing the ground for corn. As a result the manure was left exposed to the weather just outside the barn door for at least six months. It has been repeatedly shown by chemical analysis that manure thus treated will decrease in value 40 to 60 per cent.

In an experiment conducted at the New York Experiment Station, 4,444 pounds of ordinary manure were taken from a horse stable, worth $2.74 per ton for the plant food it contained, and was exposed in a heap out of doors from April to September. This manure decreased in weight 1,770 pounds and the remaining 2,674 pounds had decreased in value forty cents on the ton. Just a little figuring from this experiment will show that in five months' time, less than two and one-fourth tons of horse manure decreased in plant food value from $5.48 to $2.13.

There are many farmers today wasting enough manure value at this rate to pay for a good manure spreader in one year. We think that it behooves every farmer to acquaint himself with the various experiments in order that he may be better able to hold such losses in check, for this is where much of the profits go.

In speaking of the utility of the spreader, Lester C. Davis, of Indiana, says: "I have had some years' experience with this machine and I think it is the most useful, labor-saving and profitable implement on the farm, and one that pays for itself in the shortest space of time, by increasing the value of the manure. In applying manure with a spreader, it is put on the ground uniformly, thus covering more surface and all parts of the field are equally benefited. But if there is any part of the field that requires more or less, the manure can be put on as thick or thin as desired, and this plan of spreading is certainly far superior to the method of spreading by hand when the manure is unloaded in lumps."

The great value of the spreader lies in its ability to tear apart the manure and distribute it in a uniform blanket of small particles over the surface. In this way every atom of the manure comes in direct contact with the soil and is absorbed before it has time to leach or wash away. A load will cover two or three times as much ground when machine spread as it will when hand spread, and it makes a better showing in the wheat, oat, corn and potato bins. The six loads spread by machine often give as good results as eighteen loads forked out in lumps and bunches. It is not claimed that the spreader adds to the fertilizing value of the manure, but rather that the spreader makes available a much greater per cent of the fertilizing value.

From a labor-saving standpoint the spreader makes many dollars annually where labor is bought. The machine relieves the farmer of much of the hard and disagreeable work connected with handling manure. Of course, it will not load itself, but it will unload itself in a short time, while the driver sits leisurely on the seat, and during the period he has a chance to regain his strength.

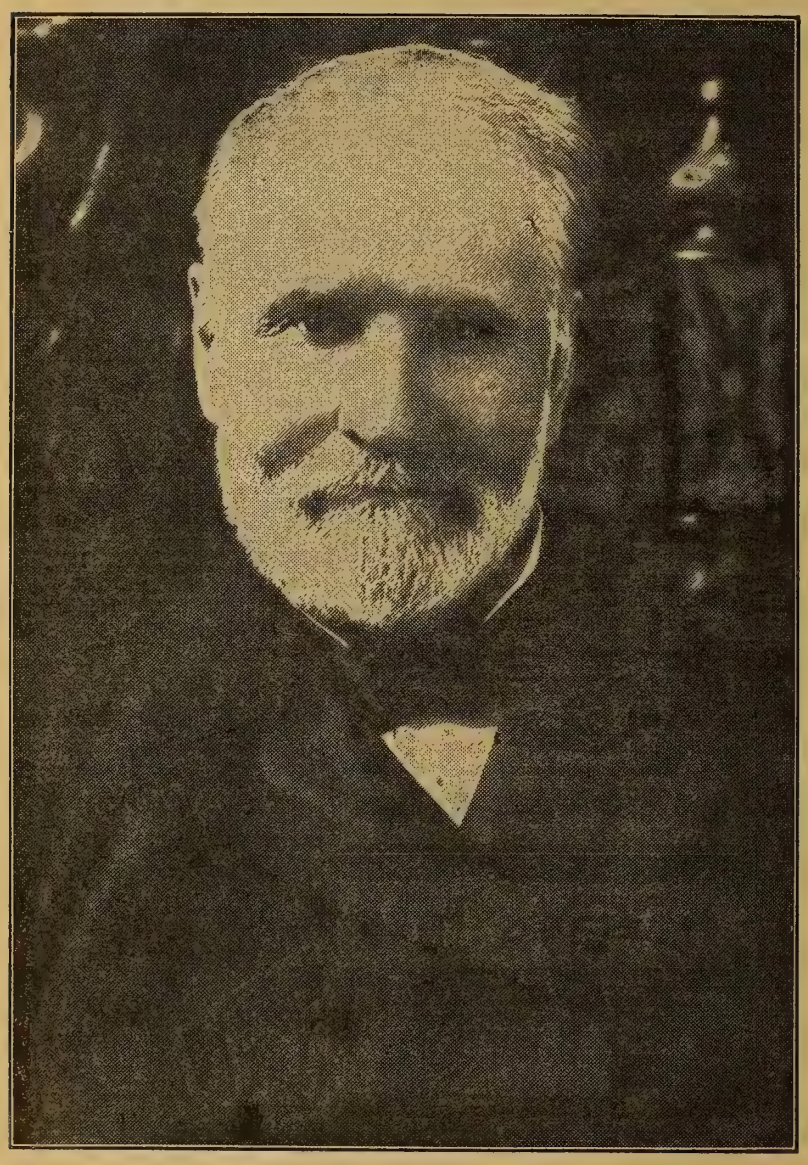
Ask your neighbor to subscribe to The Homestead.

The Home-coming of Secretary Wilson.

Breathes there the man, with soul so dead,
Who never to himself hath said,
This is my own, my native land!
Whose heart hath ne'er within him burned,
As home his footsteps he hath turned.

SIXTEEN years ago the director of the Iowa State Experiment Station was summoned to Washington to become secretary of agriculture in the cabinet of President McKinley. Four years passed and he was reappointed to his high post by President Roosevelt. Another four years passed and he was reappointed by President Taft. Last week this man who had held a cabinet position longer than any other American, who had seen the yearly farm production more than double during his incumbency of office and who had seen his department develop tion this year of almost $25,000,000. There are now 52,000 requests every week for department publications, whereas there were only 500 in 1897. In sixteen years 250,000,000 copies have been distributed. In soil investigation an area of 623,000 square miles, equal to that of Germany, France, Great Britain, Ireland and Italy, has been covered. All this progress, making toward the greater and surer profit of the farmer, is splendidly summed up by Secretary Wilson in his last annual report:

The record of sixteen years has been written. It begins with a yearly farm production of $4,000,000,000 and ends with $9,532,000,000. Sixteen years ago the farmer was a joke of the caricaturist. Now he is like the stone that was rejected by the builder and has become the head stone of the corner. The tillers of the soil were burdened with debts, but prosperity followed and grew with



HON. JAMES WILSON.

into the greatest scientific organization in the world returned home, registering modestly as "James Wilson, Tama county, Iowa." The keynote of the greeting given him by 3,000 friends and associates at the Iowa State College of Agriculture could not have been sounded better than by the lines of Scott printed above and quoted by Secretary Wilson in his response to the many eulogies of his work uttered by the prominent men of the state. The nation had been his field, but in the end he returned home and the "home folks" turned out to do him honor.

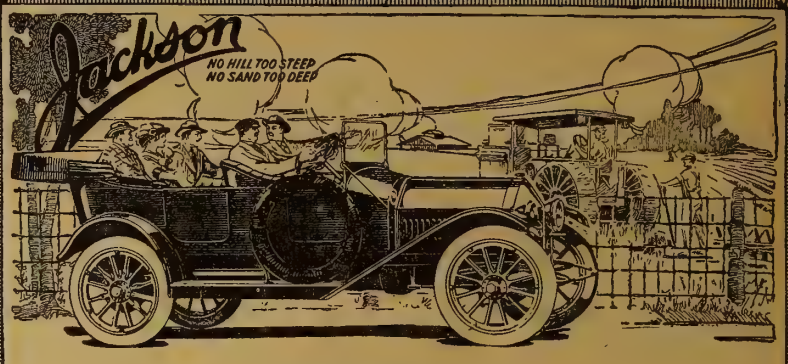
Over all and through all of the exercises which marked the home-coming of Secretary Wilson at Ames last week there sounded the note not only of praise and affection for the worker, but amazement at the work which has been accomplished in sixteen years. From 2,444 employes in 1897 and an appropriation of $3,272,902 the agricultural department has increased during Secretary Wilson's tenure to 13,823 employes, with an appropriaunexampled speed. Beginnings have been made in a production per acre increasing faster than the natural increase of population. There has been an uplift of agriculture and of country life.

In the last sixteen years the farmer has increased steadily the wealth production year by year, with the exception of 1911. In the sixteen years the farmers' wealth production increased 141 per cent.

To have headed the department representing the government's activities and interests in this marvelous development for sixteen successive years is an honor indeed, particularly in view of the fact that no cabinet member, prior to Secretary Wilson, had ever served more than thirteen consecutive years. To have established such a record and then to return home and receive such a welcome as was given Secretary Wilson at Ames last week must have been a pleasure commensurate with the service and labor. Secretary Wilson was greeted by the students of the agricultural college, the faculty and trustees, scores of former associates and hundreds of farmer friends and well wishers. He was lauded by a notable list of speakers, including Gov. George W. Clarke, Pres. R. A. Pearson, Dean C. F. Curtiss, Hon. James H. Trewin, and Sen. A. L. Ames. The occasion was made not only a home-coming for a national figure, but a jubilee for agricultural prosperity and the prominent part Iowa has been permitted to play therein. The day was a memorable one, never to be forgotten by those who were present. After sixteen years of cabinet tenure, Secretary Wilson returns to private life, turning his office over into new hands, settling down once more among the "home folks" whom he left to serve three presidents and treble the utility and efficiency of a department which is one of the big factors in the agricultural prosperity of today.

Wisconsin's unsurpassed opportunities for stock raising are not only attracting the attention of those who desire to settle upon a clearing, but also of many business men in the cities of the middle West, who have become interested in stock farming. Nelson Morris, Jr., one of the most successful of Chicago packers, has lately purchased 200 acres in Green Lake county, which he expects to develop into a high-class stock farm. He has already hired as the manager of the farm and the herd which he will maintain upon it, Henry Cunningham, a son of Thomas Cunningham, the historic breeder of Galloways, who lived near Castle Douglas, Scotland, and who perhaps did more than any one man to develop this great breed of beef animals.

There is a difference in the keeping qualities of apples, but a great deal depends on the place where they are kept. The cellar is usually too damp and warm. A dry room is better, even if the temperature sometimes reaches the freezing point.



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45 H. P. four-cylinder touring car, completely equipped and fitted with electric starter and lights.

"Olympic" —$1500
35 H. P. four-cylinder touring car, completely equipped. Electric starter and lights are optional, at an extra cost of $225.

"Sultanic"—$2650
55 H. P. six-cylinder touring car, seven-passenger, completely equipped and fitted with electric starter and lights. Five-passenger, $2500.

Not Comfort or Sturdiness alone, but the most of both

Soundness and strength you must have in your car, if it is to prove a real investment.

Comfort you must have, if the family is to get the greatest possible pleasure out of the car.

We believe the Jackson offers the best combination of both to be found among cars of similar type.

You have long known the Jackson to be a thoroughly comfortable car; and you are doubtless acquainted with its reputation for service in country use.

It is because of its ability to stand up in such use that the Jackson has won a favored place among farmers.

In many instances, Jackson cars have seen three, four and even five years of service on the farm and over country roads.

And it is on such roads that its comfort features are most appreciated.

Between you and the ruts are not only seat cushions ten inches thick but four elliptic springs—and you know how easily they ride.

With long wheelbases and large wheels, the easy riding is made more pronounced; and the generous room inside the car is a feature not to be overlooked.

On your own judgment will depend pretty largely your satisfaction with the way your car rides and runs.

So you should not neglect to post yourself.

Do this in the case of the Jackson by writing for the catalog and the name of the dealer who can give you a demonstration.

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FREIGHT PAID to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S.D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla. on orders of three rolls or more. Special prices to these States on request.

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FIRST-CLASS IN EVERY RESPECT. NO SECONDS, REMNANTS OR MILL ENDS.

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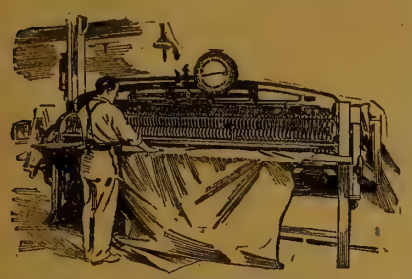
Studebaker

How Studebaker Automobiles Are Made

A Heart-to-Heart Story. No. 4

OUR last story gives us the running part of the car complete. The running part of the car without the body is called the chassis. Before we go on to the Studebaker methods of body manufacture we wish to call your attention to a few points regarding the Studebaker chassis.

First—the steel frame of the car. The frame is the backbone. It carries and forms a protection, so to speak, for the vital organs—the motor, transmission, propeller shafts, rear axle, etc. The steel pieces which make up the frame are formed in what is called channel section. They are cold rolled from specially prepared tough steel which, like a bridge, is built with twice the strength necessary to carry even the heaviest load that will ever be placed upon it. The strip of steel is cut exactly the right length and then



Machine for measuring leather to get every inch of its good surface.

placed in a gigantic press, which bends the two edges at right angles with the face, this is what is meant by "channel section." It is bent this way to give it strength to meet strains in every direction. The long side pieces are held together by cross pieces, or cross members as they are called, which are riveted and braced (gussetted) to the side members. The rivets are heated almost to the melting point before they are put in the holes. When the automatic hammers strike them, they expand to fill the holes exactly and, at the same time, they are riveted down against the steel side pieces forming a joint as strong and as secure as a weld. A Studebaker frame will not work loose in years of the hardest service. The placing of these cross members in the frame has been carefully studied and they are located at exactly the points where the greatest strains come.

In speaking about the chassis, again we would like to mention the great advantage of owning a car which is manufactured and not assembled. The Studebaker car is manufactured. The motor, the rear axle and transmission and every part are made in our own factories in direct relation and harmony with each other. In an assembled car, however, the motor is purchased from one manufacturer, the rear axle from another, the transmission from a third, and so on. This means that the entire car is no better than the weakest part. This means, also, that these parts are brought together in the chassis, assembled and compelled to fit each other as best they can. In the Studebaker factories every part of a Studebaker car is made for every other part. This is why a Studebaker car will run so smoothly and so silently; none of its power is wasted in the attempt to adapt one part of the car to another part. There is a straight line drive between the motor and the rear axle and every part is perfectly adjusted and perfectly fitted to harmonize with every other part. This is what gives the Studebaker car the speed and the power with minimum consumption of gasoline. Every part is of the highest quality; there are no weak parts to spoil all the good parts.

After the chassis is completely built and tested by miles of actual hard driving over a test course of country roads, it is steam-cleaned, painted and made ready for the body.

The body of the automobile is a very important part, and especially so from a sales standpoint. The body is the thing that you see, it is the only thing, unfortunately, that a great many people see in buying a car. A poorly made body can be painted, varnished and upholstered to look exactly as good as the best made body, but a season's wear will tell the tale. You will find joints opening, paint checking from the vibration and strain of the metal work, leather pulling apart and many other evidences of poor body construction work.

Studebaker bodies are Studebaker made from the rough frame work to the twenty-fourth coat of paint which goes to finish them. First a Studebaker body is made of a special grade of sheet steel, which will give the least expansion and contraction in changes of temperature, and which has a surface especially prepared to take a glass smooth final finish. This sheet steel is placed upon a framework of hardwood, braced, reinforced and mortised together under specifications which it has taken years to develop. The steel brace work in the Studebaker body is drop forged. In most bodies you will find that wrought iron and malleable iron are used instead of steel. The framework of the body is put together by men who have spent years in framing Studebaker vehicle bodies.

The Studebaker Corporation makes its own auxiliary seats, it is one of the few automobile manufacturers that makes this part of its car. The method of fastening them to the side of the body is distinctly "Studebaker," and the fastening is drop forged steel engaging with two body braces, which make it impossible for a Studebaker auxiliary seat to work loose.

It will require a herd of 150,000 cattle to furnish hides to supply the Studebaker factory with upholstering in the season of 1913. These hides must come from full size cattle and they must be of select quality. Only the outside layer of the hide next to the hair is used. This means that every available inch of the hide is used and it takes three hides for each car.

There is probably no furniture manufacturing concern in the world where more skilled workmen are required to cover the finest furniture than those required to trim automobile bodies in the Studebaker factories. If you visited the Studebaker factory you would be surprised to see the amount of hand work that is used in upholstering a Studebaker car. Even the cushions are made by hand. The leather, of course, is stitched by a machine, where machine stitching is better for this purpose than hand stitching, but the cushion is stuffed with hair, tufted and placed upon the springs entirely by expert hand work. In looking at the next automobile, remember this point: it is practically no more expensive to provide 15-inch upholstery than it is to provide 10-inch upholstery. It is usually a question of the length of coil steel springs. The car that seems the springiest when you sit in it first may be the first one to cave in—like the old lounge at home—when you give it a little hard usage on the road. Studebaker upholstery not only depends upon coil springs for its depth, but also upon good quality of hair and plenty of it.

The springs that are used in the cushions are reinforced in every direction and we guarantee that Studebaker

Studebaker Automobile Bodies are upholstered by hand.

seats will not cave in at any time. They will not bulge at the edges even after many seasons of hard wear. Our secret of making a cushion this way is simply the secret of good hand work and an ample supply of good material and plenty of painstaking thought in design. The piece of upholstering in the back of a Studebaker car is about 15 ft. long—it is made with the same painstaking care as the cushion. It is subject to the same guarantee. It is made of the same quality of leather. It is put on the car by the same skilled hand work. When it is completed it is as good as the highest grade upholstering on parlor furniture.

Running around the top edge of the body, there is a molding of real walnut—not imitation walnut stained to resemble the real thing, but real walnut. It is fastened on the body frame work with screws set in washers. The holes are drilled and the screws put in by hand and with the most careful workmanship.

Probably one of the most interesting operations in body finish is the painting operation. The body of the Studebaker car is painted, rubbed and varnished twenty-four times before it is finished. There are six coats of filler put on the body and rubbed before the first coat of color goes on. This rubbing process is done by hand—every inch of it. It is rubbed with a piece of pumice stone of special quality which is as smooth as a razor hone. These various rubbing processes work the filler into the metal until the surface becomes as smooth as glass. Then coat after coat of color paint is used and each coat rubbed with the same care and until it shows the same glass-like finish. It is particularly interesting to see the skilled workers place the varnish over the color work. The richness of the color stands out under the very first coat of varnish like magic. The succeeding coats of varnish give depth and added richness to the color and also durability to the finish. These are the marks of its quality and an indication of the skill with which it is applied. It has the quality which will make it

Six coats of paint foundation are rubbed on the Studebaker Body before the first coat of color is put on.

stand for years without checking or without tarnishing, provided proper care is exercised in washing the car.

It takes several weeks to build a body for a Studebaker car, but when the body is finished it represents one of the highest specimens of upholstering, painting and varnishing known to the art of body building.

The designing of an automobile body is a very important part of automobile manufacture. Skilled engineers and designers work for months to plan the new model body on paper before the first step in pattern work begins. There are dozens of measurements to be taken into account, and every inch of room must be planned to give the greatest amount of convenience and comfort to the users of the car, and at the same time the lines and shape of the body must be beautiful, symmetrical and graceful in every particular. The next time you look at a Studebaker car, compare its wide doors, the ease with which you may enter or leave the tonneau or the driver's seat, the perfect fit of the seat cushions and back, the ample room for you to lounge and stretch out—compare these features with those provided by manufacturers who ask twice as much for their cars as we do.

Perfection is made up of small details. Notice, in the Studebaker car, that the carpet is fastened to the floor with a ball and socket fastener. It will not scuff up under your feet. Notice the care with which the small fittings are put on. The exactness and perfection in Studebaker workmanship is especially evident when you compare it with that used by the manufacturers of other cars. The nickel work on a Studebaker car will not wear off and show the brass beneath. Notice how well the doors on the Studebaker cars fit. Notice the mortise work of the locks and fasteners. These are the little things which you can see and which indicate the careful workmanship in building Studebaker cars.

The Studebaker Corporation makes its own tops complete. We do not buy a top in the open market and adapt it to our bodies, but we design and manufacture the top in perfect harmony with the body. We buy 600,000 yards of cloth to keep the owners of Studebaker cars dry in wet weather and shaded from the sun in tropical climates. This

The sewing room of the Studebaker Top Factory. The tops of Studebaker cars are cut and made as carefully as the finest garments.

is another place where buying in enormous quantities gives us splendid market opportunities. Not only can we select the highest grade material, but we can buy it at a price which other manufacturers pay for inferior material.

Here is an important thing for you to consider in buying an automobile. If you select a car manufactured by a manufacturer who produces cars in large quantities you can be sure that every part of it is built by skilled workmen. It is only under the conditions of quantity manufacture that true specialization can be obtained. There is enough work in our factory to keep certain men continually busy doing certain things. This is particularly true in our top department. For instance, one set of men do nothing else but place the top sheets of mohair on the frame work of the top. The precision with which they do their work is a precision learned from years of specialized effort in the same direction. We might take every part of our top, and in fact every part of our car, and go through it the same way. The Studebaker car is one of the finest examples in the world of the quality produced by highly specialized skilled labor. The cutting of the cloth, used in the tops, is done by experts as skilled in their work as those who cut the most expensive clothing—they have the same kind of patterns to go by and the same high standard of accuracy is required. All work is subjected to the most rigid inspection. This is true in every part of body manufacture. Every operation has its inspection.

It is difficult to put on paper the tremendous power and capacity of such an organization as Studebaker, which seems so simple and which yet embodies the enthusiasm and energy of so many thousands of skilled men. Yet this power is real, it is vital, and we hope you are coming to feel it. Our next and last story will appear in the April 3d issu. Look for it. In the Studebaker Proof Book we tell more than we have been able to tell here about an automobile and explain things everyone ought to know on this important subject. Tear off the coupon below and send it to us. We will send you the Proof Book immediately.

THREE GREAT CARS

Studebaker "25" Touring Car, $885
5 passenger—Gas starter.

Studebaker "35" Touring Car, $1290
6 passenger. Electric lights, electric self-starter.

Studebaker "Six" Touring Car, $1550
6 passenger—Electric lights, electric self-starter.

All prices; completely equipped f. o. b. Detroit.

The Studebaker Corporation, Detroit, Mich.

TEAR OFF HERE
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I am interested. Please send me Studebaker proof book.
Name .....
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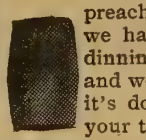
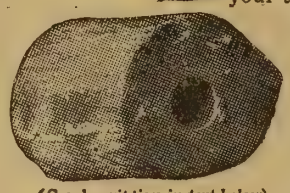
CYPRESS posts "STAY PUT." LUMBER ECONOMY SERIES, No.3



Here we are again, Mr. Farmer, with another preachment on Cypress, "The Wood Eternal." If we had less faith in the stuff we should not keep dinning it at you; but we know whereof we speak, and would have you know. It is to your advantage—it's dollars to you—to get the Cypress microbe into your thinking system and the Cypress fence post into your business system. If you will but give this lumber a try-out, you're certain to become a buyer, steady, of Cypress and that's what we want. We are not working for to-day alone; there will be Cypress a-plenty, after you and we are dead and the Cypress you put in will be on the job long years after our grandchildren are dead—so don't get the idea that we are trying to "unload" something on you in a hurry.



(See description in text below)

FENCE POSTS DON'T ROT?—WHAT!

That is, Cypress fence posts have other things to do than to rot—and do the other things first—contrary to the habits of most woods. Some posts seem born to decay, but Cypress fence posts prefer to stand where set, hold a nail or wire staple, and "stay put" for all time. Witness the "endurance test" at New Orleans, La. About the year 1800 WATER MAINS were laid in that city made of Cypress logs with 5-inch holes bored lengthwise. These were coupled with short heavy iron tubes. A few years ago these logs were replaced by a more modern and capacious system, when, lo, the Cypress logs were found sound and hearty, after a century of service in the damp earth. The iron connections were rusted out beyond redemption. The same kind of Cypress for every building or "odd job" need you have around the ranch, may be bought from your nearest lumber yard. If not write us, and we'll find you a live dealer.

BOARD FENCE STYLISH

The old board fence always was the handsomest and best fence, and it is coming back into style. Woven wire is all right, but it doesn't "pretty-up" the place any. No boards last like Cypress, and you may get them free from knot holes. They are stiff, strong and enduring. Enduring and then some.

Acquainted With the Cypress Pocket Library Yet?

If you're interested in SHINGLES ask us for Vol. 7; if in SIDING send for Vol. 9. Vol. 1 tells you much about the wood—in fact it's the U. S. Govt. Report in full. An *Investment Guide* worth while.

SHIP IN THE COUPON!

So. Cypress Mnfrs. Assn.
Hibernia Bank Building
New Orleans, La.

CUT OUT THIS COUPON AND SEND IT ON ITS WAY

F
So. Cypress Mnfrs. Assn.
Hibernia Bank Building
New Orleans, La.
I expect to build a new
.....
and.....
within the next.....days and would like to have *at once:*
.....Vol. 1. U. S. Govt. Report.
.....Vol. 7. on Cypress Shingles.
.....Vol. 22. on Silos and Tanks.
Also put me on the list for
.....Vol. 20, on "Farm Lumber Needs"
&.....Vol. 36, "Short Cuts to Good Farm Carpentry" (with free plans and working drawings) to come as soon as printed. (No cost or obligations on me.)
.....
.....

Going To Build a Barn?

In
Cement Foundations and Cement Floors
Use
ROSS Iron Studding SOCKETS
The "100 year" Post Supports

Simply Tap Sockets down in Soft Cement No Sills to Rot! No Toenailing to Rust!

Your studding stands on surface of Cement in Iron Sockets. *Openings* allow moisture to escape. Your Studding can't rot! You can drive large wrought nails through the HOLES right into studding, to lock your building securely to Cement.

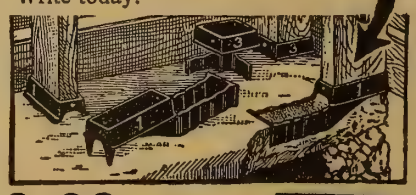
Last Forever

ROSS Post Supports are PERMANENT. Think what it means to have a durable ROSS Socket securely fastening every upright post to cement foundation in your building. A perfect unity of iron and cement. No "rot-away sills." No "rust-out toenailing."

Thousands used in Barns, Corncribs, Granaries, Hoghouses, Coalhouses, Sheds, Garages—any building with a Cement Floor or Cement Foundation. Sizes to fit *any* upright.

Write Today

for FREE Booklet. It tells you "HOW to BUILD Cement Foundations and Floors" with upright supports that are *everlasting.* Write today!



G. M. ROSS & CO.
134 Broad Street
Grinnell, Iowa

FARM FURROWS
TURNED BY A PRACTICAL FARMER

I have just received a bulletin concerning farmers institutes for the year 1911, issued by the United States Department of Agriculture. Sometimes the department does things up with a rush.

Leaky feed troughs run the feed bill up.

No one is counting out the bundles of rough feed to their stock, as they did last spring. There is a plenty and some to spare. Coarse fodder, that will not keep well in stack, makes a fine filling for ditches.

A few flower beds and a lawn do wonders towards making the farm home attractive. It adds nothing to the producing power of the farm, of course, but it does add much to the actual value of the farm, in case the owner should happen to place it upon the market.

Sharpen up your pen knife, and thus disprove the assertion that a farmer never has a sharp knife.

I take no stock in all the talk about such and such not being worth what it costs because it adds nothing to the producing power of the farm. The man who will not progress because such progress "will not make the farm produce any more" is considerable of a stand-pat and stick-in-the-mud. I have even heard men argue against better roads, because they could not see that better roads would add to the stuff produced on their farm, just as if hogs, cattle, grain and the almighty dollar was everything.

I have been living twice as far from town the past three weeks, because the roads have been next to impassable with mud. A man who can be satisfied with mud roads is certainly a stand-pat of the most pronounced type.

Will you arm the kicky horse with another ugly and dangerous weapon by putting shoes on him?

The postoffice department is going to add a c. o. d. feature to the parcel post business after July 1st. Little by little, and in the sweet bye and bye we may have a real parcel post system, such as other countries have enjoyed for years.

Why is it that we always are complaining of a thing after it is done and can't be helped?

Where a man has the horsepower, I think he is perfectly wise to hook a harrow cart on behind his harrow, and ride on it. At any rate, it doesn't pay to use a small harrow where there are horses to pull a large one. If a man trudges along behind, he feels better about it when cutting a wide swath.

Employ the balanced ration, and it will balance your bank account in your favor.

I never did believe in throwing expensive grass seed away by using an unusual amount of it to the acre. If the seed is good and the seed bed is likewise, less instead of more than the usual seeding will produce a stand. If it does not, twice more seed would not be apt to, as season or seed bed would be at fault, and more seed cannot overcome these.

Dig out that seed corn grader and germination box.

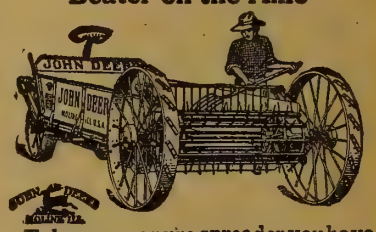
With the mud six to ten inches deep where they were, I saw, yesterday, a herd of cows turned out in a stalk field. The cows were getting plenty of exercise all right, and not much feed, while the land was getting a tramping it will scarcely get over this season. Under no circumstances do I believe in late spring pasturing of stalk fields. Cattle tramp land enough when it is dry, say nothing of when it is wet.

There will be a great deal of corn in the shock, unhusked, when the land will be wanted for spring crops. The winter has been ideal for shredding or threshing shocked corn, but far from it to husk by hand, as the fodder has been too dry until well on towards the first of March. It is considerable of a nuisance to have to stop spring work to clear a field of fodder, but last spring many of us would have been highly pleased to have had the fodder to move.

It is a good plan to keep the cattle in the yard when the fields are muddy. The feed they find is of very little value and will be over balanced by the damage they do to fields and meadows by tracking over them while they are soft.

John Deere Spreader

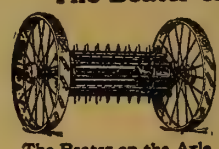
The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

The Beater on the Axle



The Beater on the Axle

The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

Out of Gear

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.

Only "Hip-High"

Easy to Load

Because the beater is mounted on the rear axle, it is only "hip-high" to the top of the box. Each forkful of manure is put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—*Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y.27*

John Deere Plow Co.
Moline, Illinois

CURRENT EVENTS

DR. FRIEDERICH FRIEDMANN, of Berlin, the young German physician who claims to have discovered a bacilli which will check and cure tuberculosis, injected his serum into a score of patients in New York last week. Part of the inoculation was under the observance of United States army surgeons, Dr. Friedmann proposing to turn his cure over to the United States government once he has proved its efficiency. Forty-eight hours after the serum was administered officials of the hospital, who had been skeptical, reported that the inoculated patients were showing rapid improvement, thus giving credence to Dr. Friedmann's claims. Owing to the opposition of New York physicians Dr. Friedmann had some difficulty in securing the opportunity to make his experiments. Medical journals question the efficiency of his serum, contending that undue publicity has been given to it and to his discovery by the daily papers. Dr. Friedmann was greeted upon his arrival in this country by hundreds of tuberculosis victims whose hopes have been aroused to a high pitch by the news of his wonderful discovery. It is expected that within the next few weeks it will develop positively whether Dr. Friedmann deserves to rank with the great scientists, who in recent years have done much to alleviate the conditions of mankind, or whether he has made undue claims for his discovery. Tuberculosis is one of the most deadly diseases, demanding a heavy toll of human life, and should Dr. Friedmann's serum prove to be what he claims for it he will be a benefactor to mankind ranking with the greatest.

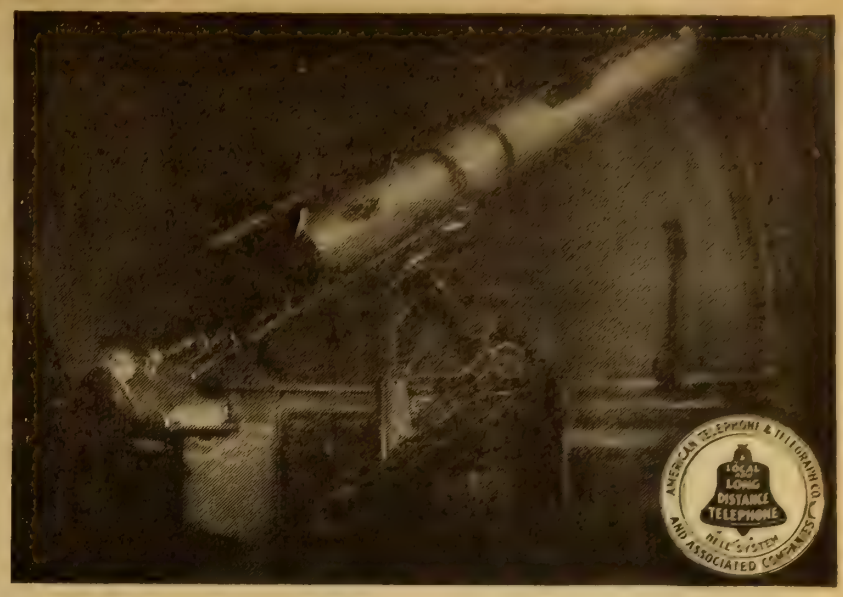
WHEN congress convenes in special session, the first week in April, a working plan will have been decided upon. President Wilson is holding frequent conferences with prominent members of both houses and it is expected that the work of revising the tariff downward will go ahead rapidly, the ways and means committee of the last house having already made investigations upon which the forthcoming bills will be based. It has been announced that President Wilson will take a hand in shaping the bills, letting his views be known before the measures are introduced, instead of waiting until they are presented to him for approval or veto. This will simplify and expedite matters, as the presidential veto may undo the hard work of many months of congress. President Wilson believes that he is personally responsible to the people for the fulfilment of party pledges and he proposes to work with congressmen to insure as early a fulfilment of these pledges as possible. This was the policy he pursued while governor of New Jersey and he is hopeful of being as successful in national affairs as he was in state. The interim between inauguration and the coming together of congress is being occupied largely in making appointments to important diplomatic positions. The president issued a statement the day following his inauguration that he would not see any office seekers except those for whom he sent, leaving the sifting to be done by the heads of the various departments. This is giving him the time necessary to attend to the big matters of policy and to acquaint himself with the actual workings of the government of which he is now the head and for this reason is a sensible and praiseworthy innovation.

THE fall of Adrianople, the Turkish stronghold, is expected any moment. The commander has made a stubborn resistance, but his ammunition and food supplies are at last practically exhausted, so that the surrender of the fortress cannot much longer be delayed. It will be recalled that Adrianople was the stumbling block in the way of the recent peace negotiations, the sultan absolutely refusing to cede the fortress to the allies because of the location in Adrianople of some important mosques, considered as holy property. Had it not been for the severe blizzards which have prevailed throughout the Balkan states since war was resumed the fortress must have fallen before this, but the severe storms caused a delay in the attack and entailed much suffering on the part of the troops. The Greeks have several notable victories to their credit recently, but the Bulgarians have not made the headway that was expected when war was resumed. Should Adrianople fall the allies will then turn their undivided attention to the fortifications around Constantinople and will not be satisfied until the crescent has been completely driven out of Europe by the cross.

THE Illinois legislature (which is investigating the conditions of women within the state, particularly in relation to the so-called "white slave" traffic) has had filed with it a report by a special investigating committee claiming that 50,000 women in Chicago alone are receiving a salary of $5 a week or less. The investigators declare that the low wages are responsible in great measure for the immorality on which many of the girls and women are forced to depend for a living. The report completely exonerates the fallen women, declaring that "no woman is bad at heart, environment is responsible for a majority of crime. They go wrong because they have to live." As a result of the report a large number of the big employers of Chicago have testified before the committee, telling of conditions in their stores. Whether the legislature, in the short time at its disposal, will get to the root of the matter or not is an open question, but the resulting publicity is destined to have good results, in that it will open the eyes of the general public to the improper, unsanitary and inhuman conditions under which a great part of the residents of many large cities are compelled to live and work. The legislative investigation is being made as a result of the introduction of a bill placing the minimum wage permitted to be paid to women workers at $12 a week.

RICHARD OLNEY, of Massachusetts, attorney-general and secretary of state in the cabinet of President Cleveland, has been offered the important post of ambassador to England by President Wilson. Mr. Olney is in his seventy-eighth year and is hesitating to accept because of his age. That he would be a worthy successor to the late Whitelaw Reid at the Court of St. James is recognized, for he is able, patriotic and experienced in statecraft. Because of the difference between the two countries on the question of Panama canal tolls the post of American representative in England is more important just at present than for many years past. While secretary of state under President Cleveland Mr. Olney insisted upon a strict enforcement of the Monroe doctrine and showed himself possessed of the necessary backbone to secure his country's rights. Other prominent men who are mentioned for important diplomatic positions abroad are Wm. McCombes, of New Jersey, the brilliant young lawyer who managed Governor Wilson's campaign for the presidential nomination and is now chairman of the democratic national committee, and Augustus Thomas, formerly of Missouri, the well-known playwright.

Circular No. 206 of the Bureau of Animal Industry, United States Department of Agriculture, Washington, gives the following excellent advice: "In order to obtain eggs, it is necessary to have healthy, vigorous stock, properly fed. Nature provides worms and bugs, seeds, greens, grit and water. To replace these, poultrymen feed eggs, meat, (green cut bone or beef scrap), milk or cottage cheese, wheat, oats, corn, barley, etc., lettuce, cabbage, kale, mangels, alfalfa, clover, etc.; grit and oyster shell; water."



The Telescope of Speech

The astronomer, by the power of his telescope, becomes a reporter of the movements of a hundred worlds greater than ours, and the student of celestial activities millions of miles away.

He points his instrument at any spot in the heavens, and his sight goes rushing through space to discover and inspect a star hitherto unknown.

Up to the power of his lenses, his vision sweeps the universe.

As the telescope may be focused upon any star, so the telephone may be focused upon any person within the range of its carrying power.

Your voice may be directed anywhere in the Bell System, and it will be carried across country at lightning speed, to be recognized and answered.

The telescope is for a very limited class, the astronomers. The telephone is for everyone.

At the telescope you may see, but cannot be seen. At the telephone you may speak and be spoken to, you may hear and be heard. By means of the Bell System this responsive service is extended to the whole nation.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES

One Policy *One System* *Universal Service*

A Big Hot Spark—A Quick Start

New Lauson Gear Driven Magneto is built right into the engine and entirely eliminates batteries, their expense and troubles Won't wear out or get out of order. Throws a big, hot spark in any weather that never weakens nor fails. Can't burn igniter points.

LAUSON FROST KING
Gasoline Engines

Starts Easily.—The Frost King starts on the magneto without turning over. Requires no cranking. Positively Frost Proof.
Takes Less Fuel and oil and delivers more power because of special features and design. Replacements due to wear and breakage are all but eliminated by having the parts case-hardened or fitted with adjustments.
Perfect Balance.—Every part is accurately ground and fitted. Engine stands perfectly quiet even under full load—another proof of durability.
Satisfaction Guaranteed—or money returned. Shipped quick from all transfer points. Write for catalog stating power required and name of Lauson dealer.

1 to 100 H. P. All Types.

The John Lauson Mfg. Co.
202 N. W. St. New Holstein, Wis.

Original and Only Low-down Spreader.

Pulverizes. Never Clogs. 3-row Spread. Solid Bottom.

Light and Strong.

Spreads all Manures.

New Idea Manure Spreader

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Write for New Catalog. Shows pictures and describes in detail. New Idea Spreader Co., 144 Sycamore St., Coldwater, Ohio

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I want every reader of this paper to write me for my new book, "Big Money in Oats and How to Grow Them." Just mail me a postal or a letter giving me your name and address and I will send you this valuable book together with a free sample of our pure Canadian Grown Regenerated Swedish Select Seed Oats. This book was written by Wm. Galloway, Professor M. E. Bowman and other seed experts. It contains priceless information worth real money about how to make big money in oats, how to make a seed bed, how to start a seed patch, how to make oats stand on rich ground and how to grow a bumper crop of oats. It is profusely illustrated by photos taken from actual life and contains, besides, facts, figures and opinions given by farmers all over the country. Now, remember, this book is free for the asking and we will send it to you together with a free sample of the oats or, better still, enclose 10c to cover packing and postage, and we will send you an extra big sample packet, or for 25c we will send you a triple size and for 50c a packet three times the size of the 25c packet. In addition to this, after you have had a chance to examine the sample oats, if they suit you, as I know they will, you can return the empty packets to us and we will accept them the same as cash in part payment on any future orders you may send in. Can you beat this offer? Never.

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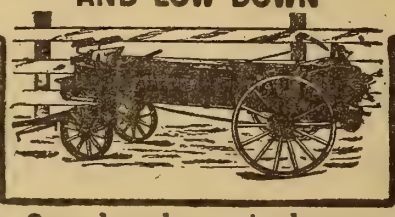

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

DIFFICULTIES OF HOTBED WORK

The beginner in the use of artificial heat for starting garden plants is often puzzled to know why so many things go wrong. He does not get expected results, and fails to see just where his preparations have come short of perfection.

The first disappointment is that the bed don't heat up as quickly as it should. That may result from the fact that the manure was not really fresh. Old manure that has been once heated is not fit for a hotbed. Use only what is fresh and not too much straw. It is best that not over half the bulk should be straw. Again the trouble may come from lack of moisture. As the bed is being made it is well to use the sprinkling pot—not to make the material wringing wet, but to have an even moist condition all through.

Another trouble is that when it begins to heat, the heat seems to be uneven. Some places will be cold while others are warm. This may result from having frozen lumps of manure in some parts of the bed. These lumps should have been either thrown out or broken up and well mixed with the finer parts. Or the uneven heating may be because the manure was not evenly placed. Perhaps in your hurry you failed to level it, and left it a foot thick in some places and two feet in others. You should see to it that before the dirt is put on the manure is of an even thickness all over the bed, and well tramped down. If you fail to tramp it, you will notice after the plants are started that there will be settling in some places, great hollows will appear much to the injury of the plants. Then you will perhaps notice that the plants near the frame at the edges of the bed are very slow to start and do not grow half as fast as those in the middle, and you will wonder why this trouble has come upon you. It is simply because you failed to make your bed of horse manure wide enough and there is no heat at the edges. There should be manure enough so that when the frame is put on to receive the soil, the manure will project about a foot all about the outside of the frame. Do this and you will have just as good heat at the edges as at the center.

Then, perhaps, you will notice that there are spots in the bed where the plants do not look thrifty. They wilt easily and look dry. This is the result of too little soil. Four inches of rich garden soil is little enough. Some recommend six inches, but if you have good four inches your plants will thrive. But unless the manure has been evenly spread, the leveling of the soil will leave it thick in some places and thin in others, and the result will be some unthrifty plants.

Perhaps after the plants are well started there comes a frosty night and in places near the edges some plants are nipped. This is the result of loose fitting. There is a crevice somewhere. The frame should be made of straight boards and the corners squared correctly so that the sash will fit tight and even. If this is well done there will be no scorching of plants in any ordinary frost, if the frame is well made.

Or it may be that the frost creeps in through a cracked glass. This is a point to watch and you had best repair the break before the frosty night comes. Perhaps there will come a night when there is a heavy freeze, and the single glazed sash will not be enough protection. Then you should have your mats, made of hay, or rye straw—for a complete cover. But if mats are not ready, horse blankets will do. Or old carpets will help out in the emergency.

If you are having your first experience with hotbeds, you will need to watch things pretty closely when the first hot suns come. You may go out to work some morning and coming in at noon find your plants all burned up, or at least badly wilted. This is because the heat of the sun under the glass is too much of a good thing. The plants must have ventilation. Every morning after the weather is

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Our "BLIZZARD BELT," Foster mother root Apple Grafts make vigorous, long lived, heavily fruiting trees, because they grow their own hardy roots. To prove their worth we will send you 2 GRAFTS (rooted ready for planting) FREE, or if you send 10c for packing, will send you six grafts. Write today.

The Gardner Nursery Co.,
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so warm that no frost falls at night the sash must be raised at one end. In moderate weather raise them one foot; in very warm weather remove the sash entirely. When the plants are very weak and spindling it is because you have used too much seed sowed too thickly.

"HOW WILL YOU HANDLE YOUR BERRIES?"

Growing berries successfully is one thing, and selling them at a profit is another and very different thing. The successful cultivator is not always the good salesman. There are several ways of selling the berry crop, and each way is preferred by some berry men because of certain conditions which seem to make that way the best for them. Possibly you have a neighbor who has his way of selling his surplus, but do not hastily jump to the conclusion that his way is the best way for you also. It may be that your situation is different.

Some berry growers who despise any small business like retailing will pack up their berries and sell at wholesale to the merchant. Perhaps if it is convenient they will send at once to the commission man of the city. Of course, they are prepared to take whatever the commission man in the goodness of his heart is willing to send them, be it more or less and usually it is less.

It pleases your local grocer to have you willing that he should handle your crop, you, of course, standing all loss from the berries which are left over. He will be willing to allow you a wholesale price, and will retail them at an advance of about three cents a box. Also he will ask you to take your pay in trade. In good nature and glad that he is willing to take the work of retailing the fruit off your hands you agree to this proposition. So you get even less than the face price for your berries because you allow your dealer from 7 to 15 per cent profit upon the goods which you take.

There is a better way than this, that is, a better way for the berry grower. This way is good enough for the local merchant and he will never complain as long as you agree to it. The better way for the grower is this. Sell your berries to the consumer from your own wagon. This is the way to profit. There is no other way to compare with it. It is the way of the successful man. Many a farmer near town who has boys, and who likes to grow berries, can start the boys upon a successful business career by allowing them the use of a horse and spring wagon. An active, ambitious boy who has reached the age of from twelve to fifteen years where he begins to feel the need of cash, and a growing desire to make it for himself will jump at such a chance. Encourage him to pack the berries in an attractive manner. Let them be sorted to an even size and only good fruit be used, every berry being solid and usable. Cover the cases for the drive so that no dust shall soil the fruit. Use colored and fancifully cut tissue paper to improve the looks of your load. Such things attract and hold the attention of the lady customers. Take certain streets, calling at every house, and tell the people that you will visit them every day or every other day, as the case may be. Make a list of the people who are buyers, or probable buyers; have your name stamped upon every box sold. It is important that they should know your name. "John Jones, Berryhill Gardens," or "Will Smith, Strawberry Glen," will do much to make friends for you and win confidence.

By the second or third trip you will have weeded out all the people not willing to trade with you, and will have your list of customers pretty well settled. Do not be afraid to trust, but tell them it is all right if pay comes at stated intervals. You will find many whose money comes in at some monthly pay day, and who are just as good as the gold and just as honest as you are.

You will soon come to enjoy your business, and the buyers will be glad to have you come. The assurance of fresh fruit, and at a price no higher than is usually paid for the stale article from the grocer will bind them to you with hooks of steel.

The boy will realize upon the average three or four cents more per box than would be possible under the wholesale way of marketing. And that means that your crop will bring you a third more than before. And besides you have done your boy a world of good, for he has acquired business experience, has learned how to meet people, and sharpened and developed his instinct for trade. In a few days now the berry fields will be green and after a few more days white and then in two weeks they will be red with the ripened fruit. Prepare now to make the most of your opportunity.

RENOVATING THE OLD GARDEN.

To the Editor of The Homestead:

In traveling over the country I see a great many gardens which appear to be rather run out and are not producing as they ought to be. The weeds seem to have the upper hand of everything, and the ground is not in the condition it should be for a profitable production of vegetables for the use of the family.

On making inquiry I find that as a usual thing these gardens have been in use for several years without perhaps any manuring or very little at most. Of course, the ground was good when the gardens was first made there, but by constant cropping, and letting the ground be bare in the winter, the land has as a natural consequence become rather exhausted, and the physical texture of the land is bad. All such gardens are in need of a renovation.

Of course, it is natural for us all to want to make all out of the gardens that we can, and to this end it seems that some people think they must raise some crop on the garden every year. This is all right so far as it goes. The land should have something as near every year as it will produce, but in order for a garden or any piece of land to produce a crop every year, it must have an abundance of fertilizing.

Several years ago I moved to the farm on which I am now living, and the garden was in just about such shape as those I have spoken about above. I could raise only one thing successfully, and that was most all kinds of weeds, which did not furnish much food for the family. I thought I would make an experiment which I had in mind, and the early fall following the first year I put three heavy horses to a good solid plow and gave it a very thorough deep plowing. Following this I sowed it in rye, and scattered all the hen manure that I had over the surface, and during the winter I also gave it an application of coal cinders.

The next spring when the rye got about waist high I took this same plow and turned the rye under, but following this plow I subsoiled. This stirred the ground about twice as deep as it ever had been stirred. I then gathered up all the hen manure again that I had, also went to the hog pens and gathered all the hog manure that I could get, and with the addition of just a little manure from the barn I gave it a thorough application again, working this manure well down into the soil with a disk and harrow. Then I sowed this in cowpeas and such a crop of vines I never saw before, and

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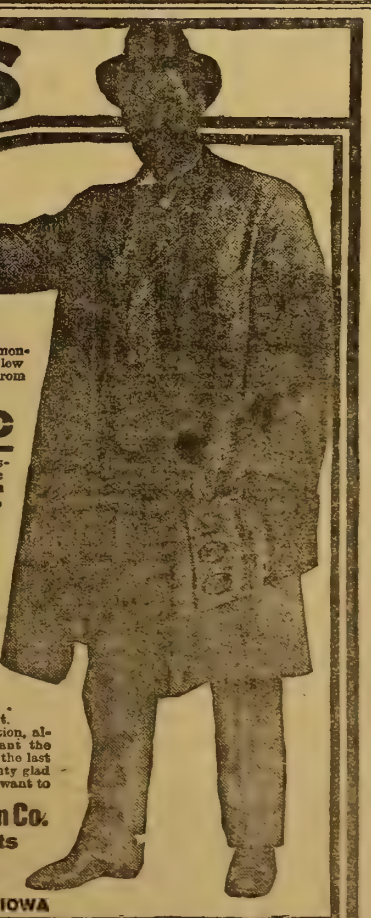

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IS carefully grown, carefully selected and tested. Four of the leading varieties and plenty to fill your order. Lowest prices for the class of seed to be had anywhere. Also other seeds. Send for catalog. Mention Homestead. Address

FRANK J. RIST, - HUMBOLDT, NEB.

HARDY TREES & PLANTS

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At 1/2 Agent's Prices
We Grow and Guarantee Them.
CATALOG FREE.
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EVERGREENS

200 Norway Spruce, 3 to 6 in., $1; 100 Arbor Vitae, 3 to 6 in., $1. Prepaid by mail. Many other $1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free.

HARVARD NURSERY, Box W HARVARD, ILL.

200 PLANTS $1.00

100 of that choice new variety Dunlap and 100 of two other choice varieties with our new book, "How to Plant and Grow Them"

J. L. TODD & COMPANY,
Route 3, Box 1 Des Moines, Iowa

SEED CORN Seed corn that is seed corn. All extra selected, tested premium corn, Reid's Yellow Dent. Sample ear by mail 15 cents. Circular Free. The All Grow Seed House. Knoxville, Iowa.

Improved Reid's Yellow Dent seed corn, guaranteed to test 95 or better. Write for sample and prices; will ship on approval. Harry Nauman, West Liberty, Ia.

TREES AT HALF PRICE

I will sell you, just as I have hundreds of others, my hardy, northern-grown trees from the nursery row at one-half the price you pay agents for poorer stock that has been out of the ground for days or weeks.

I ship direct from the ground on the same day the trees are dug. The trees you buy of agents have been out of the ground often three weeks. That is why they don't grow. Buy direct of me and you will be satisfied.

TRANSPLANTED

100 EVERGREENS $7.50

Express Prepaid.

These trees have been transplanted and root-prun ed, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of "Iowa's Greatest Evergreen Specialist."

We can also sell you very cheap prize-winning

"True-to-Name" Fruit Trees

and berry plants guaranteed to prove hardy or cost you nothing. Catalog of special bargains FREE.

EARL FERRIS NURSERY CO.
210 Bridge Street, HAMPTON, IOWA.

SEED POTATOES

NORTHERN WISCONSIN GROWN, pure-bred "Conrath" stock, standard varieties of high vitality. Big yielders. Plant something good this year. Illustrated catalog FREE. **NORTH WISCONSIN SEED CO., Box 1, Conrath, Wis.**

SEED CORN

WORLD'S FAIR seed corn, tested 98%, selected early in Sept., big yielder, early maturing. Also pure Green Russian seed oats. Write for prices. John H. Berry & Sons, Route 6, Iowa City, Iowa.

CLOVER, TIMOTHY

MIXED Timothy and Alsike, Alfalfa, Ky. Blue Grass, Dwarf Essex Rape, Seed Flax, Barley, and Oats. **SEED CORN:** Silver King and Early Yellow Dent. Special prices for early orders. Write today. The Hofler Seed Co., Nora Springs, Iowa.

SEED CORN Golden Row, Reid's Yellow Dent, Nebraska White Prize and Silver Mine. Gathered early and dried on racks in our furnace heated seed house. Write for 27th annual price list.

LEE SMITH & SONS, De Soto, Nebraska.

SILVER PLUME

A BEAUTIFUL medium, early white oat with the stiffest straw and heaviest yielding qualities, 85c graded and sacked. Send for post card. Address **W. C. BRYANT, PRINCETON, ILLINOIS**

SEED CORN Reid's and Golden Eagle, a cattle corn, deepest grain and smallest cob grown, September picked and dried on hangers, best type and germination. Crated, $3.75. Shelled and graded, $2.75. Send for circulars. **W. C. BRYANT, PRINCETON, ILLINOIS**

Kherson Seed Oats

MOST productive in seven-year test at Iowa and Nebraska stations. Twenty bu. or more, 85c a bu. **GEO. GREGORY, RALSTON, IOWA**
C. & N. W. main line.

Clover Timothy, Barley, Sweet Corn and Field Corn, Pumpkin, Swedish Red Oats, Watermelon Seed, Alfalfa, Millet, Cane. Write for prices and sample. Satisfaction guaranteed. Hawkeye Seed Co., Lockridge, Ia.

GOLD MINE OATS

HEAVY yielder, stiff straw, the kind to raise, 65 cents bushel. Sample free. Address **GEO. BROWN, - Wilton Junction, Ia.**

SEED CORN, TIMOTHY

and Millet seed that will grow, at farmers' prices. **EDW. DOOLEY, - - SELMA, IOWA.**

SEED CORN, OATS AND BARLEY

Price list; samples free. Allen Josha, Holstein, Ia.

REGENERATED Swedish Select oats. Recleaned 50c bu. Mandscheuri barley 75c. Clover and timothy seed. Samples. B. S. Strayer, R. 1, Hudson, Ia.

SEED POTATOES FOR SALE—Pure-bred, best varieties. Address Guy Anderson, Ogdensburg, Wis.

have seen but very few since. They were so rank that it was out of the question to plow them under as they stood. I had to take a good sharp hoe and cut them down so that I could run the disk over them before I could plow them under with any degree of success.

All of the neighbors said they would cure them for feed, but I was determined to build up this old garden if it was possible. So I plowed them deep and sowed again to rye, the following spring turning the rye under again and then planting my garden stuff. I think that I made the most stuff that year off of the garden that I ever saw made on a garden of its size.

Everything grew very rapidly. However, I was troubled some with weeds, and it took me several years to get rid of the weeds, as they had been let mature for several years and the ground was full of seed. Since that I have always practiced the turning under of rye and peas every few years and also have given an application of manure every year or two, as I thought it necessary.

If, however, you have only one garden spot that is fenced, it may be necessary to move the garden some distance from the house every few years, in order to give the garden a renovation. I find it now most convenient to have two plots fenced in, and I want to give one a rest. I have the other to grow my garden stuff on, and am not put to the inconvenience of going off some distance from the house for my supplies.

I would say to the reader, if your garden is in the condition as described above, if for nothing else, for experience sake try what I have said and see what the results are. I know from experience that you will be more than paid for your trouble, and it is a very good way of converting an unprofitable garden into one of profit and pleasure. Subscriber.

SAWDUST AS A MULCH AND FERTILIZER.

A subscriber at Herman, Minn., asks if sawdust is a good mulch for young trees and if it has any value as a fertilizer in a truck garden. It may be used in moderate quantities as a mulch, but it cannot be recommended as a fertilizer. The purpose of a mulch is an application that will retain moisture by preventing evaporation caused by hot suns. Sawdust lies close and heavy and holds much water in itself. It will, therefore, answer the purpose of a mulch, and yet it should be used in moderation, for a heavy body of it tends to make the soil sour. We would advise an application about three inches in depth as sufficient.

There is also a difference in sawdust and we would prefer to use that from soft wood like poplar, pine and spruce to that from oak and ash.

There is no fertilizing value in sawdust until it has thoroughly rotted. It is simply woody fiber in a pulverized form, and the roots of plants can draw no sustenance from it. After it is well rotted it is valuable. Rotten wood when well mixed with the soil is a valuable aid to nearly all plants, more so upon some soils than upon others. It is especially useful in compact clay soils which need some application to lighten their texture. It is also good for sandy soils which need a humus content.

The best way to prepare sawdust for use in gardening or for manuring for any crop is to mix it with an equal amount of earth and let it rot for two years before using. This will give it time to decompose, and the soil well mixed with it hastens the process. Never use fresh sawdust upon land, for it will be injurious rather than helpful.

LOW COLONIST FARES.

Via Chicago and North Western Ry.

One way second-class tickets on sale daily March 15th to April 15, 1913, to principal points in the West, including Helena, Butte, Nampa, Salt Lake City, Ogden, San Francisco, San Diego, Los Angeles, Portland, Tacoma and Seattle. Exceedingly low fares. Favorable stopover privileges. For particulars apply to ticket agents.—Adv.

Ask your neighbor to subscribe to The Homestead.

SEEDS.

Fire-dried **SEED CORN** husked before the frost, dried on independent seed ear racks with air and steam heat. Sure to grow because germ is preserved. Also Clover, Alfalfa, Oats, Rye and Garden Seeds. Write at once for **FREE CATALOG** and receive **FREE SOUVENIR.** Address

FRED ECHTENKAMP,
Box B. Arlington, Nebraska.

NATIVE SEEDS—Fancy recleaned clover $12.50 bu., 99% pure, 98% growth; timothy $2.25, 99% pure, 99% growth; alfalfa, not irrigated, $9.75, 99% pure, growth 96%; blue grass $2.25; cow peas $2.75; Johnson Co. White Sweepstakes corn $2.50 ear; seamless bags 20c.; we buy from the farmers and reclean all; no obnoxious weeds; write for price list and samples, also garden seed catalog. Merry War Lye, hog cholera preventive $4.00 case, 4 dozen. Pure, genuine Red River Early Ohio potatoes, 90c bu.; early Six Weeks $1.00 bu., sacked; free from scab; onion seeds $1.25 lb., postpaid. **Johnson Bros., Nebraska City, Neb.**

Kherson Oats.

DOES NOT RUST OR LODGE

Recommended by experiment station and the best farmers. Yield 112 bus. per acre. We also have **Swedish Select, White Shonen, Mammoth Cluster and Danish Side Oats, Seed Corn, Grass and Garden Seeds, and Pure-bred Poultry. Send For Free Catalog.**

AYE BROS., BLAIR, NEBRASKA
Box 1. Seed Corn Center of the World

SHULTZ GRASS SEEDS

Our Red Top grass seed is the best you can buy. We also handle Cowpeas, Millet, Cane, Timothy, Blue Grass, Alfalfa Red Clover Alsike and Sweet Clover. Send for sample prices. Address **Shultz Seed Company, Olney, Illinois.**

CLOVER

OUR "PURITY BRANDS" of red clover, timothy, alfalfa, alsyke and other farm seeds average nearly 100 per cent pure. All guaranteed to pass severest tests of your State Agri. College. We have the best cleaning plant in Iowa and for more than 20 years our seeds have been the standard of purity. Buy our hardy northern variety. **The Adams Seed Company, Box 61, Decorah, Iowa.**

SEED CORN at farmers' prices. Reid's Yellow Dent, Iowa Yellow Dent 90 day, Iowa Silver Mine, Boone County White and Big Bloody Butcher; germination practically perfect; prices $1.75 for seed shelled and graded, selected ear seed in bags $2.25, in crates $2.50; 15 lbs. free with 5-bu. lots, or over, any variety. We ship on approval. Write for catalog and free samples. **BOTNA VALLEY SEED CO., Box E, LEWIS, IOWA.**

5,000 BUSHELS SEED CORN

From seed corn center of the world. Reid's Yellow Dent, Silver Mine, White Cap Yellow, Legal Tender, Blair Yellow, Nebraska White Prize, Pride of the North, Blair White. Send for free catalogue.

AYE BROS., Blair, Neb.
Box 1. Seed corn center of the world.

Strawberries

FOR 40 years we have specialized on strawberry plants, and can furnish most any variety in any quantity desired at money-saving prices. All plants guaranteed. Send for money-saving list and full description. **Geo. W. Bridgman Nursery Co.,** Dept. A, Benton Harbor, Michigan.

CLOVER

CHEAP
Now Is The Time to Buy
Prices sure to rise. Save money by buying before advance. Get our special low prices and free samples of our Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Also alfalfa, alsike, sweet clover, all kinds grass seed. **1913 catalog free** quoting all field seeds. Save money by writing

A. A. BERRY SEED CO., Box 103 CLARINDA, IOWA

JUNG'S SEEDS FREE

TO convince you that **Jung's Northern Grown Garden, Farm and Flower Seeds** are the best we will send **FREE** with our beautiful catalog a pkt. of Jack Rose, the earliest red tomato in the world. Write at once. **J. W. JUNG SEED COMPANY,** Dept. 14, **Randolph, Wisconsin.**

SUTTON'S SEED CORN

PICKED in a sack, dried on a rack before freezing weather comes. Guaranteed perfect germination. Sold on **10 days' trial.** All standard varieties. Increase your yield by using Pure Bred Seed. Write for FREE corn book today. Two big plants.

G. O. SUTTON CO., Dept. O, Mason City, Ill., Geneseo, Ill.

SEED CORN

I HAVE 600 bushels of equal amounts of Reid's Yellow Dent, Iowa Silver Mine and Farmers' Friend, all pure bred and raised for me and gathered in October, sorted and placed on racks, dried by hot air. Will guarantee 90 to 100% will grow; 10-day approval. Price $2.00 per bushel in crates or sack, $1.50 shelled. Write for catalog. **W. F. SHINDLEY SEED HOUSE, LEWIS, IOWA.**

250 Strawberry Plants $1

YOUR choice. WHOLESALE PRICES on Fruit Trees and Small Fruits. Free list. Address **JOHN F. DAYTON, - WAUKON, IOWA.**

300 BEST VARIETIES

Strawberry plant $1.50, express paid fall-bearing straw berries, doz. $1.25. 25 black rasp., never winter kill $1.00. **W. H. Koell, Box 710, Hampton, Ia.**

250 Strawberry Plants $1

OR 100 evergreen seedlings $1.00, or 75 raspberry plants $1.00. Write for catalog and premium list. Address West Side Nursery, Box 1, Postville, Iowa.

GASOLINE SCARCITY.

The power-driven vehicle can no longer depend on its present fuel. The demand for gasoline has overtaken production. During the last decade the oil market has been readjusting itself to radically new conditions. This has been brought about by many new applications of oil products for developing heat and power. Crude oil was formerly looked upon simply as the raw material for the production of illuminating and lubricating oils.

United States government reports show that the advancing price of gasoline is due solely to inevasible laws of supply and demand. No corporation or combination of corporations is responsible for the fact that demand has overtaken production, and that further increase in prices are now impending.

American gasoline and naphthas were formerly obtained solely from high-grade paraffine crudes of Pennsylvania and Ohio. These are the most valuable oils in the world, and highest grade Pennsylvania crude now actually brings the same price as refined kerosene in bulk.

But unfortunately Pennsylvania production has fallen from 33,000,000 barrels in 1891 to about 9,000,000 barrels at the present time. However, at present prices even this decreased production represents over $18,000,000.

Ohio has decreased in production from 24,000,000 barrels in 1896 to less than 9,000,000 barrels during the year last past.

Again, the zenith production of our own state of Indiana was in 1904—over 11,000,000 barrels—but the present yield shows a shrinkage of nearly 90 per cent maximum.

The United States Geological Survey states that the general decline in production "would doubtless have been much greater but for the effort to apply laws of supply and demand by increase of prices. Prices advanced so greatly during the year as to stimulate drilling, even in the old New York and Pennsylvania pools, and so checked the decline. Formerly this plan has not been so successful. In the mid-continent field also, it checked the decline, so that the product will come within 4,000,000 barrels of the maximum output."

Canada, also, has fallen off one-third from her highest production of five years ago, and the only new field in sight is Tampico, in Mexico, which has grown from nothing three years ago to 6,000,000 barrels in 1912.

About the only home fields not showing decreased output are in California and Oklahoma. Three-fifths of the total yield now comes from these two states. And even the increased output of Oklahoma was insufficient to prevent a continuous reduction of stock on hand in 1912. Ninety per cent of the entire output of more than 220,000,000 barrels were crudes which yield a very low percentage of gasoline.

The following market prices of eastern, mid-continent and western crudes are fairly indicative of their relative gasoline content:

Pennsylvania	$2.05 per bbl.
Indiana	1.23 per bbl.
Oklahoma and Kansas	.83 per bbl.
California	.35 per bbl.

These prices of crude oil were correct as of January 25, 1913. Since that time Pennsylvania crude oil advanced seven cents a barrel on each of three successive days, standing now at $2.50 and $3 oil is freely predicted.

In order to obtain a single gallon of gasoline from refinable California petroleum, it is necessary to produce as by-products nine gallons of kerosene and thirty gallons of residual oils. Notwithstanding the steadily increasing output of western oil the price of gasoline on the coast continues to advance. It is now thirty cents per gallon at retail.

Large shipments of Texas oil formerly came to the Atlantic seaboard in tank steamers, but these shipments have decreased, as the Texas oil yield is now less than one-third its 1905 output. In view of the Texas shrinkage it is obvious that the opening of the Panama canal will furnish a large eastern market for California oil, but it is equally obvious that under existing conditions that will not materially affect the gasoline situation.

There are five different methods of increasing normal visible supply of gasoline.

One is importation. The Standard Oil Company has imported some Russian naphtha but Russia has no more to spare, as her own oil output is diminishing to such an extent as to increase the price 100 per cent in the last two years, and to warrant the Russian government in the promotion of alcohol production. The Shell Oil Company, of England, has also shipped some gasoline from Borneo to Canada, but the total quantity available abroad is insufficient for its home demands and America is still exporting gasoline to foreign markets at the rate of 15,000,000 to 20,000,000 gallons per month.

Another and more promising means of obtaining gasoline is by increasing the total yield of American crudes. A yearly production of 300,000,000 barrels in the United States is probably being approached faster than even oil men generally believe. But the largest increase in the production of gasoline in one year has never been more than 5 per cent while the production of power-driven vehicles will in all probabilities represent an increase this year of around 100 per cent. Furthermore, as already shown, the supply of gasoline yielding crudes is rapidly decreasing and the increased crude output will consist of Oklahoma and California asphalt oils, having insufficient gasoline for existing requirements.

The third means of supplementing the gasoline supply is the production of gasoline from kerosene. Chemists have known for some time that it was entirely feasible to extract gasoline from the chemically complex kerosene, as well as from coal, coal tar, and even wood. It is simply a question of cost, and of the profitable disposal of resultant by-products. Gasoline is now being made from kerosene, and a further increase in price will stimulate an increased output.

A fourth source of gasoline supply is its manufacturing from natural gas by compression, and its subsequent condensation to a liquid form. It is claimed that this process produced 13,000 gallons in 1910, which was increased to 50,000 gallons in 1911 and about twice as much in 1912. Some of the richer gases produce as much as eight gallons per 1,000 cubic feet, but the average is from three to five and one-half gallons. By triple and quadruple compression up to pressures as high as 400 pounds, very light liquids up to 85 degrees Baume are produced, these being slightly more stable than the products of fractional distillation.

The fifth and last means of increasing the available gasoline supply is by lowering its Baume gravity. It is probable that the specific gravity of commercial gasoline will be dropped another notch by next summer. Much of the liquined-gas gasoline is used for blending with heavier distillates, and it naturally requires other than gravity tests to determine the characteristics of such blended gasolines.

With the exception of importation these various methods of augmenting the available quantity of gasoline are now in active operation, and every increase in price is a stimulus to additional output.

This brief review of market conditions shows that the problem of an adequate supply greatly overshadows the collateral problem of the increasing cost of gasoline.—[J. A. Secor before Indiana Auto Engineers.

Night schools of scientific agriculture are proving a popular feature with the farmers of western Michigan.

No-Rim-Cut Tires 10% Oversize

Nearly Half the New Cars Use Goodyears

Nearly half the cars which are built this year will be equipped with Goodyear tires.

At the New York Show, nearly half the show cars had Goodyear equipment.

Think of that—almost as many Goodyears as all other tires together.

And far more cars are now running on Goodyears than on any other tire in the world.

What Led to This Condition?

It is well to ask what led to this condition.

There must lie, somewhere, some immense economy. For men in these days keep good track of tire mileage.

And the result is this:

In the past year alone, more Goodyear tires have been sold than in the previous 12 years put together.

Two Savings

Two features in No-Rim-Cut tires mean an enormous saving.

One is the device which makes rim-cutting impossible. Without that device—with the old-type tire—23% of all tires become rim-cut.

The other is the fact that these patent tires are 10% oversize.

That 10% oversize, under average conditions, adds 25% to the tire mileage.

Non-Skid Treads

Then we invented a Non-Skid tread which excels every other non-skid.

It's a double-thick tread, made of very tough rubber, filled with deep-cut blocks. It grasps the road-surface with a bull-dog grip.

This thick, tough tread is immensely enduring. And the blocks spread out so the strains are distributed just as with smooth-tread tires.

This long-lived Non-Skid became at once the favorite Winter Tire.

Any Man Can See

Any man at one glance can see these advantages.

You can see why these tires can't rim-cut. You can see the oversize. And you know without telling that these things save money.

Then this tire, remember, is the final result of 14 years spent in tire building. For 14 years the ablest of experts have here worked to solve your tire problems.

About 2,000,000 Goodyear tires have now been tested out. As a result, these tires far outsell any other tire in the world.

You who pay tire bills should find out the reason. Make a test of No-Rim-Cut tires

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

GOODYEAR
AKRON, OHIO

No-Rim-Cut Tires

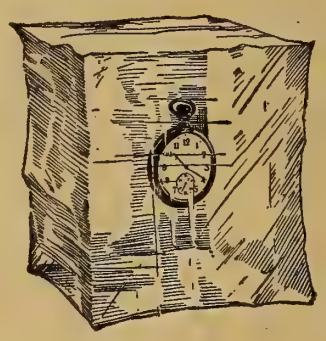
With or Without Non-Skid Treads

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO

Branches in 103 Principal Cities More Service Stations Than Any Other Tire
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
Main Canadian Office, Toronto, Ont.—Canadian Factory, Bowmanville, Ont.

Was Your Watch Made This Way?

Was the watch you carry now baked in an oven, frozen in ice, adjusted to position, inspected 411 times and put through a 700-hour test for accuracy before it was considered fit for your pocket? If it wasn't, then it has never met the exacting tests that every South Bend watch *must* meet before it leaves the factory.



It takes nearly 200 days to *build* a South Bend watch. Then the rigid inspections and tests commence.

Can you wonder that the South Bend watch is a marvel of mechanical construction and accuracy? Can you question its popularity among railroad men, city men and farmers everywhere?

Even when a South Bend watch has left the factory, our interest in its on-the-dot performance does not stop.

We sell *only* through retail jewelers—15,083 of them. These men are alone able to properly regulate a watch to the buyer's personality. And that is necessary, as good watches run differently for different people.

This is a fact, but it's a long story to tell in an ad, so we'll leave that to the jeweler himself. Ask *your* jeweler to explain it. Ask him to show you a South Bend watch. Write for our free book, "How Good Watches Are Made"—a revelation to every reader. Brimful of good pointers. Get a copy before you buy *any* watch—it may save you money and disappointment. Start a postal off to us tonight sure.

The South Bend Watch Co., 22 Ironton **St., South Bend, Ind.**

"The South Bend Watch"

(129)

KRATZER Quality CARRIAGES

"Built to Stand Wear and Tear."

Send Coupon for FREE Catalog

50 other styles in Buggies, Surreys and Wagons

"Country Gentleman" Buggy No. 61

There are many buggies on the market these days that *look* fine enough when they are *new*—but there's more to a buggy than paint—there's only *one way* to protect yourself.

You can know you are getting a buggy of high quality throughout only by buying one made by a manufacturer with a reputation for high class work.

Kratzer Quality Carriages are sold by Reliable Dealers

They are made here in Des Moines; made *right* for the worst kind of roads; made of the very finest materials, beautifully finished. Some of them have been in service 15 and even 20 years—almost without repairs. When you buy a **Kratzer** you *know* you are getting the *right buggy* for your purpose; the best buggy made—and most economical in the end.

Buy a **Kratzer** *now*, and you will have a beautiful, easy-riding, easy-running buggy whose high quality will be a credit to you; and you will have a good buggy for many years.

Send Us This Coupon for Valuable Buggy Facts

Let us give you our catalog and the *real inside facts* about **Kratzer** buggies before you decide what buggy you will buy. If there is no dealer in you town, just mail the coupon.

Kratzer Carriage Co.
104 Des Moines, Iowa

Kratzer Carriage Company
104 W. First Street
Des Moines, Iowa

Send me your FREE catalog and details about Kratzer Quality carriages

Name_____

Town_____ R.F. D.____

State_____ Co._____

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

COWS THAT COUNT—ON THE WRONG SIDE.

To the Editor of The Homestead:

Which way do your cows count, for or against prosperity?

An investigation of this subject recently made in one of the leading dairy states by a commission of competent men led to the conclusion that not less than two-thirds of the cows of that state were maintained at a loss. That is, that these cows do not give milk enough and of a good enough quality so that they pay for the feed and care given them from year to year.

This is a most startling statement and one which may well cause every farmer who keeps cows to set about it at once to find out whether it be true of his dairy or not, and if so how he can rid himself of the members of his herd which take money from his pocket instead of helping to make his dairy operations a success.

The answer to the first part of this question can only be shown by some sort of a test which will not only show what it costs to care for, feed and otherwise maintain each cow, but also set before her owner the real value in dollars and cents of the milk she gives in the course of the year.

There are various ways of finding out very nearly what the worth of a cow's milk is, but the best of these is no doubt the Babcock machine. By sampling the milk of every cow and subjecting it to this test, one need not be very long in doubt as to what the animal brings in as a gross return for her keeping.

It is not quite as easy to determine the cost of keeping a cow a year. The best figures must be more or less approximate. One must carefully figure in the cost of labor, the value of the feed and the worth of the money invested in cows and equipment. It will call for some bookkeeping, but it can be done and it is worth while. It is absolutely necessary, in fact, if we are to know anything about the worth of a cow to us.

Are we willing to lay out this labor and spend this time for the sake of finding out which way our cows count as breadwinners for the family?

"Life is so short and art so hard to learn." So will say the man who fights off this idea of knowing the value of the individual members of his herd. These men, it does seem to me, ought not to be satisfied to go on year after year, working hard themselves and paying out money to hire the help of other hands, just for the sake of dodging a bit of head and brain work. The only way to make a real success of dairying is to get out of the herd every cow which does not prove to the satisfaction of her owner that she has a right to be there, and a good claim to the care and feed given her.

Which way do your cows count?

E. L. Vincent.

GASOLINE ENGINES FOR CREAMERIES.

If the creamerymen of Wisconsin would equip their factories with gas engines of the required size and install small boilers for what steam they need in washing their utensils, they would annually effect a saving of more than $100,000. This was the surprising statement made by Prof. P. S. Rose, an engine expert, before the meeting of the Wisconsin buttermakers recently held in Milwaukee. Assuming that 100,000,000 pounds of butter were made last year in the creameries of this great dairy state, he estimates that the cost for power was but little less than $300,000 and he believes that this expense could be cut in two by a re-equipment of the creamery power plants. Many of the engines now in use in these factories are in poor repair and many are larger and more powerful than is required. Getting up and holding a head of steam is what costs in a steam plant. Every moment the plant is steamed up while not working is that much loss.

C. H. Hart, the secretary of the Iowa Buttermakers' Association, who is using a gasoline engine in his factory, declares that he is saving approximately 60 per cent of his fuel bill and

$25 to $40 SAVED

Here's the machine that fits in with my idea of what a separator ought to be—the right price and the right quality. The Beatrice stands alone on the separator market as the one high-grade separator at a fair-play price. Instead of paying $100 to $110, I paid $75 for 1000 pounds capacity. I have yet to find a more efficient and durable machine.

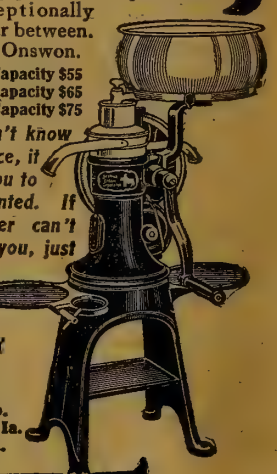
BEATRICE Cream Separator

It's no trouble at all to keep it as clean as a new pin and perfectly sanitary. The patented device will clean the machine and make it spotless *in less than 2 minutes.*

The close skimming it does is surprising. My skimmed milk doesn't show a particle of cream. The occasions I have had to put my hand in my pocket for repairs have been exceptionally few and far between.
—Farmer Onswon.

600 lbs. Capacity $55
800 lbs. Capacity $65
1000 lbs. Capacity $75

If you don't know the Beatrice, it will pay you to get acquainted. If your dealer can't introduce you, just write



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Construction and Up-to-date Equipment for the Dairy Barn.

By Clarence H. Hulbert, Dane County, Wisconsin.

GOOD producers, sanitary production and good management are the key words to success in the dairy business. Without proper equipment, economical management is impossible. The poorly equipped, improperly lighted and inadequately ventilated cow barn cannot perform its duty to the herd of cows which have the inherent desire to produce to the limit of their ability.

The first consideration in the construction of a dairy barn is its location or site. This must be chosen primarily with reference to light and dampness, since sunlight is the cure for all ills and dampness the cause of many diseases. Light is absolutely essential to oxidation and the drying up of stables, for in damp barns the dread of tuberculosis, abortion, infection of the womb, Johne's disease and scours is ever present. For this reason a barn with its long axis north and south seems to be the more desirable since it affords a better distribution of sunlight than does one with its long axis east and west. But in whatever direction the barn may face the water table should be at least eight feet below the stable floor to insure dryness.

Concrete is today generally accepted as the best material for stable floor construction. The question of whether or not the cows should face each other is largely a matter of preference since good argument can be advanced for either arrangement. If, however, the cows are to face out enough space should be left between the gutters to allow a manure spreader to pass, the alley sloping slightly to each side so that all liquid will drain off. The width of the gutter will vary from twelve to eighteen inches, depending on the size of cows kept, but should not be over eight inches deep. The stall floor should also slope one inch toward the gutter and will vary in length from gutter to manger from four feet eight inches to five feet six inches. Two feet should be allowed for the manger and enough for the feed alley so that a feed carrier can be put in or a feeding truck run up and down in front of the cows without coming too close to them. If the cows face in enough space will have to be left back of them to allow manure carriers to pass.

The stall floor will have to be covered with some non-heat-conducting material such as wood. For this purpose southern pine has been found to be best, and to obtain a sanitary condition the cracks between boards are filled wtih oakum and covered with boiling pitch. Cork brick is now being used by some farmers and has an advantage over wood in that it absorbs less moisture. The usual height of a cow stable is nine feet and enough space should be left between cows to provide 500 cubic feet of air space per cow. The window space required in dairies furnishing milk for city consumption is four square feet per cow, and this limit should be approached as nearly as possible. The whole stable should be sealed with some material which will provide smooth walls and ceiling, and a standard ventilating system installed.

The question of stalls is the next important consideration. The advantages of the metal stanchion over one of wood are so great that the increased expense will be easily compensated in providing this kind of a stall. Some of the more important advantages are that the metal stall does not absorb moisture, can be more easily kept clean and may be painted with little difficulty when desired. They, therefore, do not need to be disinfected so often and when this becomes necessary it is carried out much easier in the case of the metal stall. Their durability is a great advantage and they will last much longer and are kept in repair much easier than a wooden stall. The greatest advantage, however, that is possessed by the better makes of metal stalls is the fact that they are adjustable. This makes possible the fitting of the stall to each individual animal, and in this way the cows are kept clean with about one-half the work that would otherwise be required. It also does away with the disadvantage of making the stall platform wider at one end of the barn than at the other to accommodate different sized animals. While this method is practiced by many farmers it necessitates too much changing about of the animals, due to the fact that they keep growing, to be practical. The metal box stalls allow a greater amount of light to come into every nook and corner and air to circulate through them and for this reason are very desirable, and have the other advantages mentioned above over the wooden box stall.

In the arrangement of the stable the nearness to the feed and milk room must be taken into account. The milk room should be near but entirely apart from the stable, and so constructed as to be easily kept clean. For this reason running water is a great adjunct, but where this is pro-

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And if first cost is a serious consideration a DE LAVAL machine may be bought on such liberal terms that it will actually **save and pay for itself.**

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Get the machine that operates with least effort—that gives no trouble—that makes more profit—that is so strong, so simple, so durable, as to make it the one *perfect* spreader.

You take no chances in buying the GREAT WESTERN. Over 100,000 farmers have used them during the last twelve years and swear by the *old reliable, time-tried*

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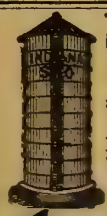

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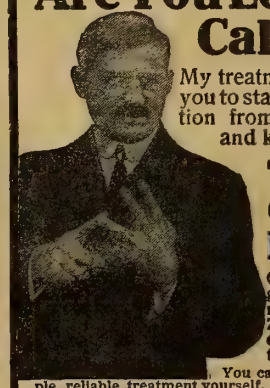

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You can apply my simple, reliable treatment yourself. If you have any trouble with your live stock, remember experiment is more costly than neglect. Write me, giving the symptoms and enclosing 2c stamp, and I will advise you by return mail, holding your letter confidential.

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vided it is equally as important to have a good drain to carry away the waste water.

A good, economical, practical one-room or three-room milk house, suitable for the average dairyman has been devised by the United States Department of Agriculture, plans for which can be obtained by writing the department. The cost of the one-room house is $104 complete when built separate from the barn. A milk room of similar design, however, could be constructed in connection with the stable at a much lower cost. The size of this milk room, according to the plan is and will, without crowding, accommodate the following equipment: A boiler, separator, cooler, milk tank for three cans, Babcock tester and apparatus and wash sink. The cost of this equipment bought new would amount to about $175, but such things as the sink and milk tank can be easily constructed by oneself.

With a stable and outfit of this kind, varied to suit local conditions, a good clean product can be made at a comparatively small expense, and the better grade of cows kept the greater will be the return, for they will be able with this equipment to do their best.

THE SEVEN AGES OF MILK.

The dairying industry is undergoing constant change and improvement. One noted milk specialist has furnished this rather humorous description of the evolution of the business of milk production. He describes the seven ages of milk as:

1. Neglect Age. Meaning anything and everything unsanitary, filthy stables and filthy cows; dust, flies, unclean cows and pails, and unclean milkers perhaps, using unclean milking methods, and careless cooling and storing of the milk.
2. Water Age. When 25 per cent to 50 per cent of water was added to the milk to make it hold out.
3. Skim Age. When all or part of the cream was skimmed and kept at the farm and the milk sent to town.
4. Preservative Age. When salicylic and boracic acid were used and then formaldehyde to keep the milk chemically sweet.
5. Tuberculosis Age. When milk was found to be, through the bovine bacillus, a transmitter of the white plague.
6. Pasteurization Age. When all uncertain milk was made safe through application of heat, 145 degrees F., for thirty minutes, correctly, honestly and thoroughly done.
7. Golden Age. When all milk shall be certified in the full and sanitary sense and meaning of the term as to environment and methods, machine clarification to take place immediately after milking, when the milk is fresh from the cow and before germ multiplication has commenced, either from foreign matter or slimes already present in the milk; then cooling and bottling at the farm, pasteurizing after bottling, to make assurance doubly sure.

HOG CHOLERA SPREADS EASILY.

To the Editor of The Homestead:

I was surprised to read lately that some people think cholera is not contagious. Some years ago I had a fine lot of swine. In one inclosure I had a few thoroughbred Poland Chinas, taking especial pains with them, feeding a good ration and I kept the quarters clean. Just west of me a very careless neighbor had a few hogs and just west of him a careful man's hogs got the cholera and then mine got it. My pet bunch was affected first and I lost nearly all my hogs. I thought then and still think some mean crow ignored my careless neighbor and hit me and the other careful man.

That was the only time my hogs had cholera in twenty-five years. Again a distant neighbor of mine bought some stock cattle in Omaha; he lived fifteen miles from the railroad, got a late start from his home station and stopped over night with a friend, keeping the cattle in the friend's feed lots and drove home the next day. About a week or ten days thereafter his own and his friend's hogs took cholera and most of them died. Evidently those cattle were shipped in a cholera-infected car. Such cases convinced me that hog cholera was "ketchin'."

J. W. Cheney.

Buy Silos With Harder License Plate And Be Safe.

Leading and responsible manufacturers furnish this license plate as it guarantees the user in the safe use of his silo and against law suits

Another Victory for Licensed Silo Manufacturers

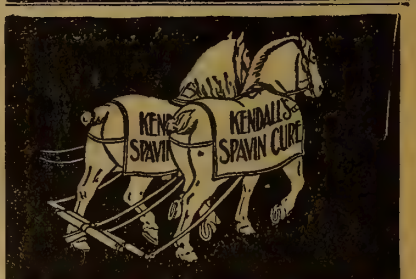
Judge Ray of the United States District Court, in December, 1912, holds Silo Construction with Continuous Door Opening from top to bottom and with braces and reinforcing strips for the door sections, whether "applied to the walls of the silo perpendicularly or horizontally or whether applied independently or in combination with the braces," is an infringement of the Harder patent.

This decision is sweeping and all purchasers of silos should now insist on only those silos which have the above license plate.

Only the best and most reliable silo manufacturers in the country have been licensed under the Harder patent and have the right to use the license plate like the above.

Be sure to compare the above license plate with the one put on the silo when you purchase it and thus insure Safety. All our licensees supply this plate free to their customers.

UNITED STATES SILO COMPANY, Dept. 23, Anderson, Indiana



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It is the old reliable remedy for splint, spavin, curb, ringbone, thoropin, bony growths, swellings, sprains and lameness from many different causes.

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are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address

WILCOX & HARVEY MFG. CO.,
Dept. A. 448 S. Dearborn St., Chicago, Ill.

Joe Davis—Martyr.

By Henry Field.

NO, YOU can't see Joe in the picture. They dug him out from under his wrecked sheller engine last night and took him to the hospital. The doctors are amputating his leg this morning and they think he may live, but he will be a cripple for life, just able to get around and that's about all.

Of course, there ought to have been a good solid concrete culvert there long ago. Everyone knew it, but the politicians who control our roads and bridges were too busy with politics to bother about it. Besides the lumbermen who furnished the rotten deadwood pine stringers were possibly opposed to concrete bridges as a useless extravagance, and they are generally influential citizens.

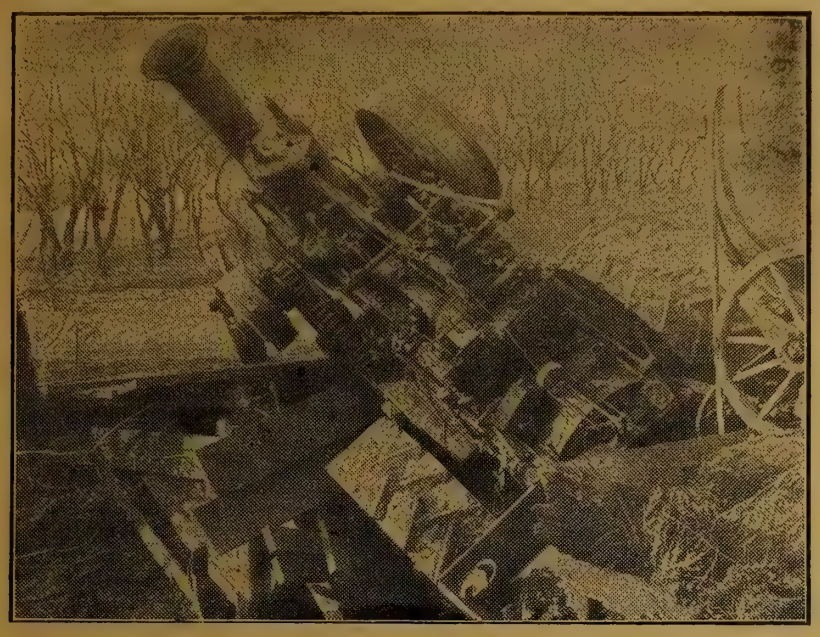
Joe lives just down the street from me. He is a steady, hard-working, good-natured fellow. Works at the seed house odd days when he don't have corn shelling to do. Told me just the other day that he had his shelling outfit about half paid for and hoped to get paid out on it this spring if he had a good run of shelling.

All he has is his shelling outfit, and a patient, hard-working wife and six small children. The neighbors are real good to them, but it will be a long time before Joe is up and around again and the payments are coming due on the sheller, and doctors don't work for nothing these days. And, by the way, some time I'm going to give you my opinion about doctors and their work.

The county supervisors were out and looked at the bridge and decided they were not liable for damages. I don't know how they figured it. I am no lawyer. I understand they are going to put in a new concrete bridge there now.

And meanwhile there's probably 50,000 such rotten pine bridges in the state of Iowa alone. Your man may get off luckier than Joe Davis did, or he may not. Why not abolish such bridges entirely?

Later—Joe's troubles are over. He was worse hurt even than we thought. And Mrs. Joe and the children, their troubles have just begun. May the God of the widow and the fatherless watch over her and her little flock. They've got a hard road ahead of them.



A HUMAN LIFE CRUSHED OUT BELOW THE WRECK.

ROTTEN STRINGERS, THE FOUNDATION OF TOO MANY BRIDGES.

PROFESSOR CRAIG'S LAST BOOK.

There has just come from the press one of the most interesting and useful agricultural volumes that has been published within the last decade. We refer to 'Sheep Farming" by the late Prof. John A. Craig. At the time of the author's death this volume was in the course of preparation and much labor had been spent upon it by Professor Craig assisted by the late William Watson. The work had been outlined in detail and much of the manuscript for it completed. The silent messenger stopped the hand that had contributed so much to the useful agricultural literature of his day and generation. Professor Craig had planned to perform a service for this branch of animal husbandry which would equal in its usefulness his previous volume, "Judging Live Stock." The sheep breeders of the United States are under obligation to Prof. F. R. Marshall for the completion of this volume. As a co-worker with Professor Craig, Professor Marshall knew possibly better than any other man the ideals that inspired this great teacher and investigator. Students and shepherds alike will rejoice that this material which has been so carefully garnered by a master mind is placed in a form to which all men now have access. It is published as one of the Rural Science Series thereby stamping it as the very highest class of agricultural literature. This paper is able to supply it to its readers at the regular publisher's price, $1.50.

A CALL FOR A CONFERENCE.

A new kind of conference is to be held in the city of Chicago, April 8th, 9th and 10th. Its purpose is to discover the grounds for the complaint about the high cost of living on the one hand and on the other hand to find out if possible why farmers are not able to obtain more profitable returns on their labor and on their investment. Compared with European countries America has no business organization as affecting agriculture. Our marketing methods are crude and our credit system, it is claimed, is far outstripped by other countries. We are in a rut, as it were, and the conference referred to is intended to discover why this is the case and secondly to formulate means of getting out of it.

The conference will be open to all persons who are interested in this subject. A program of addresses will be given by leading economists, railroad men, farmers and those who are skilled in the marketing of farm products as well as those who are recognized leaders in rural life movements. Mr. Charles S. Hollman, of 1804 Steger Building, Chicago, has been chosen the secretary of the temporary organization which calls the conference into being and those who desire further information in regard to it should communicate with Mr. Hollman.

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James M. Pierce, Publisher Homestead, Des Moines, Ia.

THE MENACE TO SHEEP RAISING.

To the Editor of The Homestead:

The writer recently asked a farmer in a certain section, why there were not more sheep raised in his community, and he answered, without an instant's hesitation, "Dogs."

Inquiry reveals the fact that this menace of dogs is wielding a most deteriorating effect on the wool production of our country in general. The section of country just alluded to is one especially adapted to sheep raising. Thousands and thousands of acres of the land is rocky, and in many places too rough ever to be turned into profitable farm land. In some places the underbrush is of such a nature that sheep or goats soon would clean them up, thus opening the way for these now practically worthless lands to become valuable as pastures.

The discouraging phase of this falling off in the handling of sheep is the fact that it is among the farmer sheep raisers, where the business is carried on as a "side line" to general farming. These men, usually of only moderate means, cannot stand the losses entailed by sheep-killing dogs, so that the decrease in size and number of flocks is apt to be permanent, unless conditions are so improved that there is less risk in connection with the business. It is the vanishing of these thousands of small flocks that totals the paralyzing loss to the sheep industry of the country as a whole.

It is rarely ever the intelligent, well bred dog that preys on the flock. When he does, it is usualy a result of his running with "bad company" —mongrel dogs that have no permanent home, or, having one, they receive little or nothing to eat and no attention whatever as to their movements by day or night. It may seem an uncharitable statement, but the dog owners of our country are more to blame for the depredations of these curs on our sheep than are the dogs themselves. With care and judgment in the owning, feeding and training of dogs, this menace to our sheep industry would be practically removed, at least greatly mitigated.

One serious drawback encountered when any drastic measures are attempted in breaking up a gang of sheep-killing dogs is that you will rarely ever find a man who will admit that his dog will kill sheep, unless he sees the act with his own eyes. This seems to be a peculiar trait of human nature, the world over. Even where a man is convinced that his dog is a sheep killer, he will shield him as a rule. The writer once knew a neighbor to detect certain dogs in their raid on his flock of sheep. Upon informing another farmer that his dog was among the despoilers, and asking that the animal be killed, the owner flatly refused. The sheep owner shortly gave the dog owner his choice of killing the dog or abiding the consequences of the law. The owner of the dog, of course, knew how this would terminate, so he killed the dog, but he said to the sheep owner: "I always will remember this, I never will forgive you for it."

All this is absurd and extremely foolish. Owners of dogs should cooperate with each other in protecting their flocks, and this can be accomplished only by each one taking a more liberal view of the matter when it is ascertained that his dog is among the despoilers of sheep. In such cases, it need not be an invariable rule that the dog be killed, especially if he is a valuable animal, or if it is known that he is not regularly addicted to the destructive habit. He can be tied up till he forgets his depredations, or sprinkled with fine shot when caught away from home, anything to break him of running around. But dogs develop cunning and wariness as they grow in the habit of killing sheep, and this makes the routing, killing or capturing of them doubly difficult. When their depredations break out in a neighborhood, every man ought to be willing that, should his dog be adjudged "guilty," the most drastic measures be adopted at once. Let all have fair warning, that they may tie up their dogs; then, let every dog found loafing around over the country be shot. Where the use of poison is not restricted by law, let some neighbor who has been losing sheep give all ample warning that he will poison

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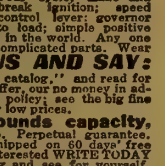

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a fresh carcass where the dogs have been most active. There isn't the slightest doubt as to the effectiveness of this "cure," while the "dose" is sure to be administered to the right cur. Nor can any man reasonably object to such a course.

Another good plan is that of trapping the sheep-killing dog. He cannot break the habit of returning to the locality where he last operated, and by setting a good No. 2 steel trap in or around the most recent carcass, covering it so the dog cannot see it, he is almost sure to be captured, when he can be promptly disposed of, or, in case he belongs to some near neighbor, or is known to be an especially valuable specimen, it might be well to notify his owner, allowing him to be removed, on promise that he would be kept in close restraint thereafter. Again, it is quite probable that a genuine threshing while in the trap would effect a cure that would last the dog for all time. Hanging the carcass of a sheep up a few feet from the ground, just so the dog could reach it well, and near where it was killed, will prove an effective bait for him, and by scattering three or four large-sized traps directly under the carcass, one rarely ever will fail to capture him the first night. Still another means of capture is that of building a pen several feet in height, using poles about the size of a stove pipe and notching them so they will hold securely. The pen should be eight or ten feet square, each pole being a little shorter than the one immediately below it till, when the top is reached, there will be a slant from the bottom up. The carcass of a sheep having been placed in the pen as a lure, the slant of the pen will make it an easy stunt for Mr. Dog, (or wolf, either, for that matter) to scale up the sloping pen and drop down into the enclosure where the carcass is. But when he satisfies his hunger and attempts to leap out—ah, there. The slope is the wrong way, inside the pen and he is safe prisoner. Indeed, half a dozen animals have been taken in a single night by this method, and considering its cheapness and effectiveness, it is hard to equal—probably never has been and never will be. Subscriber.

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It cannot be expected that children will be compelled to walk to school if a sea of mud furnishes the only footing and this is too frequently true in places outside the urban centers and often so in the latter. Nor is it to be hoped that the horse will be employed to find his path along the treacherous road in order that the children may not miss their lessons. Those who deal in statistics claim that good roads everywhere would increase school attendance not less than 25 per cent. Poor highways are a much more potent agency in keeping children at home than illness.

Preachers bear striking testimony as to the effect miserable roads have upon the attendance at the churches. They can gauge it with accuracy and the percentage of decrease there is no less than in the schools. Good roads point not only towards larger audiences, but larger contributions and less donation parties. Thus they become a powerful agency for spiritual and educational growth.—[From a recent report by James R. Marker, state highway commissioner of Ohio.

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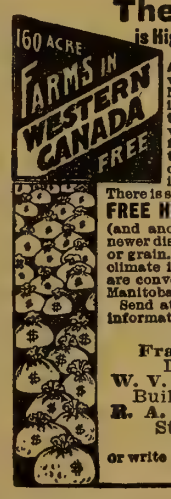

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CENTRAL MISSOURI. Write for list of corn, wheat, clover and blue grass farms, described and priced, that will prove profitable and satisfactory for homes. Mild, healthful climate. Hamilton & Crenshaw, Box 3, Fulton, Missouri.

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IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

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Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

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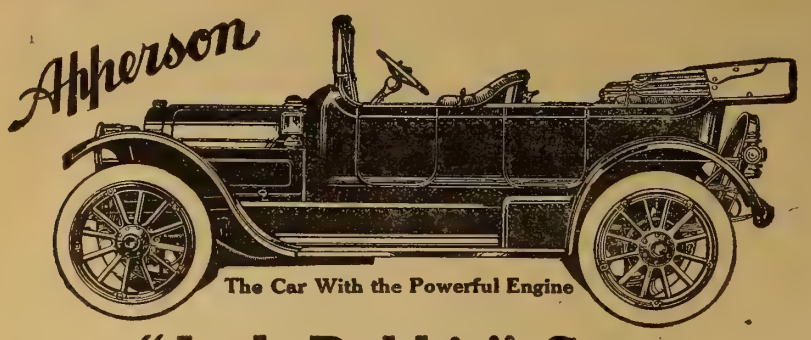

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Last 20 Years

This is not a claim. It is a certainty.

We have been building cars 20 years. The first American gasoline automobile was produced by the heads of this house, in 1893.

Still in use, are Apperson-made cars 17, 18 and even 19 years old.

Mechanical troubles have been practically unknown to Apperson owners for 10 years.

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It is upkeep cost, and not first cost, that is the *real cost* of an automobile.

Give the "Jack Rabbit" thorough consideration. To enjoy its great strength, beauty, comfort and endurance is *economy*. Write today for the "Jack Rabbit" catalog and get all the facts.

Electric Self-Starter and Electric Lighting Furnished if Desired

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45 H. P. $1600 **55 H. P. $2000**

Begin right by choosing a reliable engine

Save money to begin with by getting a good engine right at the start. There is no economy in putting a cheaply made engine on your farm, because it is sure to prove unsatisfactory and a costly piece of machinery in the end. While you are about it, why not get the best. The engine that has been proved by thousands of business farmers to be a source of economy and satisfaction. Buy an

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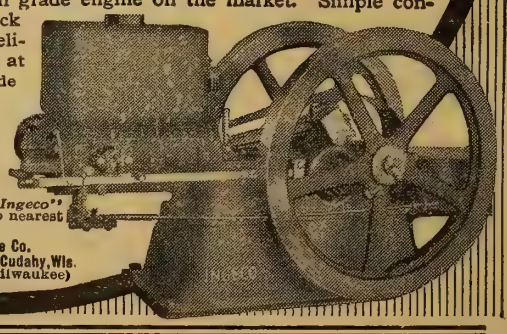
The most moderate priced high grade engine on the market. Simple construction—easy to operate—quick to start—economical of fuel—reliable in service and on the job at all times. "Ingeco" Engines are made to last, and they do. It is the engine that means complete service and satisfaction.



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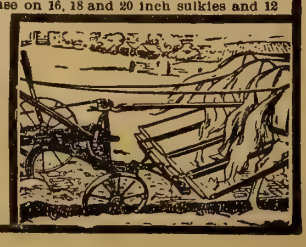
Save Work and Worry

This weight test proves its perfection

Gamble Equalizers save you work and worry—save the strength of your horses by evening the pull. Made for 3, 4 or 5 horses for all kinds of farm implements. They even the pull to within fraction of a pound. Give each horse its share of the pull—save strength of good pullers. Give bigger days work. Style of Equalizers shown here works 4 horses abreast—one in furrow, 3 on unplowed ground. For use on 16, 18 and 20 inch sulkies and 12 and 14 inch gang plows with cross clevis hitch.

Gamble Equalizers are Guaranteed

to give perfect satisfaction and work as we say or **money refunded.** Guaranteed to give plenty of room—no side draft—no rubbing horses' legs with tugs. **Gamble Equalizers** are the original—they are the best. Fully protected by patents—no others like them. Get the genuine **Gamble Equalizers.** Made to last a life time. Cost so little you can't afford to be without them. Do not accept a substitute. If your Implement Dealer does not have them, send us his name—we will see you are supplied. Send for free illustrated catalog showing full line of Gamble Equalizers.



STAR MANUFACTURING CO., Dept. 1, Carpentersville, Ill.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

NOTE AND CONTRACT OF MINOR.

A Nebraska Subscriber.—My son, who is seventeen years old, is teaching a rural school. A book agent came along during school hours and induced him to sign a note for $33 and a contract to help sell a set of books to the school district, leaving the books in his charge. The next day notice to teachers was received from the county superintendent to beware of agents selling said books, and not to sign their notes or contracts, nor allow such agents to talk to the schools—that the books were not adapted to rural schools. When the school board was informed of the deal my son was told that the books were not wanted. The note and contract were signed by my son without my knowledge or consent. Have I any right as parent and legal guardian to declare the note and contract void and demand the return of the same canceled? The books were shipped back to the publisher. The note was made payable to the publisher. Has the publisher a right to retain note and contract and threaten suit, and thus annoy the boy, affecting his mind for his school work?

Answer.—You as parent and natural guardian have no right to declare the note and contract void, or demand return of the same, but because your son is a minor the note cannot be collected from him, nor can the contract be enforced by law. From the circumstances stated the boy seems hardly mature enough to be teaching school at all. The publisher has a right to threaten suit and to sue the boy, but it will do him no good, as such suit could be defeated on account of the boy's minority.

ADJOINING LANDS—TREES AND BRUSH.

A Subscriber, Weldon, Iowa.—A owns and farms a piece of land up to the partition fence between said land and B's land, which is covered with trees and brush. Can A compel B to cut the trees and brush back twenty feet from the line?

Answer.—He cannot. B has a lawful right to grow trees and brush on his land, right up to the line, if he wishes to do so.

INSPECTION OF ANIMALS.

A Subscriber, New Hampton, Iowa.—I moved from Illinois to New Hampton, Iowa, and took with me some horses and cows. The assistant state veterinarian, located there, compelled me to have said animals inspected. He would not have known I was there if my brother had not told him. No one asked him to inspect the animals, but he did so and made charges therefor. Had he such a right?

Answer.—The assistant state veterinarian had no right to inspect your horses at your expense, but if you brought along with your cattle no certificate of health, from the Illinois authorities, and said cattle were either registered or eligible to registry, the Iowa officer had a right to inspect your cows at your expense.—See supp. to Iowa Code, 1907, page 1097.

FENCING OF PRIVATE LANE.

An Iowa Subscriber.—A and B own adjoining farms adjacent to a public road. C owns a farm back of these two farms, off the public road, and he bought a strip of land from B next to the division line between A and B and holds a deed therefor and uses it as a lane, and there is no gate at the road. Is C required to keep up half the fence on both sides of the lane, or must A and B keep up the entire fences, each on his own side of the lane?

Answer.—Under the law of Iowa C is required to keep up half the fence on both sides of the lane.

COLLECTING SUBSCRIPTION TO PAPER.

Mr. J. R. Ruthven, Iowa.—A ordered a daily Iowa paper from a reporter, who said the paper would be discontinued at the end of the time paid for, but it continued to come after the expiration of that time until several written notices were sent to stop it. The publisher is trying to collect for the extra time. Can he do so by law?

Answer.—Where a paper is sent to a subscriber after his time of subscription expires he should refuse to receive it from the postoffice and request the postmaster to notify the publisher of the fact, and then the publisher cannot collect, but if the subscriber continues to receive the paper the law implies a contract on his part to pay for it, and the pub-

Your Wagon

A dollar's worth of Lucas Wagon Paint will double the years of your wagon.

The weather, not service, causes the most wear and tear on your wagons. Keep out the weather with Lucas Wagon Paint, and your wagons will last twice as long. It's a good time to paint your wagons **right now.**

Lucas Paints

have a 64-year reputation for making good. We prove with most exacting tests that all materials used are Lucas quality. These materials are prepared and mixed in the best equipped factory in the country, under the direction of employes of 25 to 40 years experience with us. They produce the toughest, most elastic and durable paint that is made. Every can is absolutely up to our standard in color, working qualities and weight.

FREE Book "When and How to Paint"

Lots of things around your home—such as furniture, walls, floors, carriages, implements, etc., need paint, varnish or enamel. This book tells what product to buy, what kind of brush to use, how long to let dry, etc. It's a book so valuable you'll want to keep it always. Send for your copy today, giving us the name of your nearest dealer.

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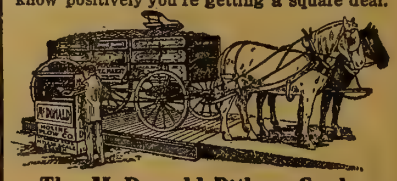
Know You're Right

Weigh your grain, stock and coal yourself and know positively you're getting a square deal.



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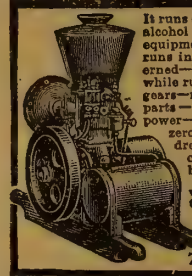
20 Reasons Why You Should Investigate the SANDOW Kerosene Stationary ENGINE



It runs on kerosene (coal oil), gasoline, alcohol or distillate without change of equipment—starts without cranking—runs in either direction—throttle governed—hopper cooled—speed controlled while running—no cams—no valves—no gears—no sprockets—only three moving parts—portable—light weight—great power—starts easily at 40 degrees below zero—complete, ready to run—children operate them—5-year iron-clad guarantee—15-day money-back trial. Sizes 2 to 20 H. P.

Send a postal today for free catalog, which shows how Sandow will be useful to you. Our special advertising proposition saves you one-half cost of first engine sold in your county. (167)

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Clean Water Means Health

Don't neglect your well. Bright, tight, clean curbing is the best health policy. Disease germs and other filth cannot seep into your well if it is curbed up with the Sanitary

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Lasts a lifetime. Most economical. Made to fit any well. Works perfectly in quicksand or any soil. Anyone can install it. Write direct to factory for catalog and prices. Address Northfield Iron Co., 18 Water St., Northfield, Minnesota

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

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INHERITANCE IN IOWA.

A Subscriber, Lorimer, Iowa.—(1) If a man who has children marries a second wife and has no children by her, what share of his property can she hold in case of his death? (2) Can the husband in such a case make a will by which his children will get his wife's property at her death, or will it go to her brothers and sisters?

Answer.—(1) In case of the man's death, his widow will be entitled to the widow's allowance and one-third of all the balance of his estate. (2) Such a will cannot be made. If the wife dies after the husband's death and leaves no descendants, her estate will go to her parents or if they be dead, to her brothers and sisters, unless she makes a will otherwise disposing of it.

PAY FOR HALF PARTITION FENCE.

A Subscriber, New Sharon, Iowa.—Last July A bought 160 acres of land from B. C owns eighty acres adjoining on the south. Three or four years ago C put woven wire on the partition fence between his land and the 160 acres, but did not demand that B should pay for half of it. C now demands that A pay him for half of said woven wire. Can he compel him to do so?

Answer.—We think C is entitled to pay from A for half the woven wire This is a matter particularly within the jurisdiction of the fence viewers, and if C should call upon them to act they would most likely decide that A should pay C for half the wire.

STOCK FOOD—DEATH—DAMAGES.

A Subscriber, Prescott, Iowa.—A had twenty-five hogs which were well and in good condition, but he wanted to make them better, and for that purpose gave them a dose of patent stock food according to directions. In twenty-four hours afterwards eighteen of the hogs were dead. After getting the stock food they trembled, squealed and whirled around, acting as though they were in great pain. A local veterinarian says they were poisoned. Some of the stock food and a pig's stomach were sent to the state authorities for analysis, but they demanded $35 for examination. A is not rich and feels that he has lost all he can stand. What, if anything, can he do about the matter, and is the stock food company liable to him for damages?

Answer.—If the stock food given the hogs caused their death the stock food company is liable to A for damages. A would have to prove this fact in a suit, and his only means of proof would be the analysis of the food and the pig's stomach. A scientific examination would settle the matter and nothing else would do so.

NO INSPECTION NECESSARY.

A Subscriber, Woodbine, Iowa.—(1) Where horses are shipped from one county to another in the state of Iowa, does the law require them to be inspected? (2) Does the law require cattle or hogs to be inspected when shipped from one county to another in Iowa?

Answer.—(1) It does not. (2) Same answer.

LANDLORD AND TENANT—CROPS.

A Subscriber, Emmetsburg, Iowa.—I notice in The Homestead of January 2d where a subscriber at Aledo, Ill., asks a question in regard to grain rent and you answer that in his case the tenant is entitled to all of the straw and stalks. Suppose that the lease states that the landlord is to receive two-fifths of all crops raised on the premises, what would be the rights of the landlord and tenant in regard to straw and stalks?

Answer.—Where land is rented to a tenant who agrees to pay grain rent, that is, a certain portion of the grain raised on the premises is to be delivered to the landlord as rent, the landlord has no right to the straw and stalks raised on the premises, but where a lease provides that the landlord is to receive as rent, two-fifths of all crops raised on the premises, he is entitled to two-fifths of the straw and stalks, and the tenant to three-fifths. The word "crops" includes straw, stock, grain and everything raised on the premises.

SOLE RIGHT TO SELL GOODS.

A Subscriber, Hereford, Minn.—A has a contract with a certain medical company giving him the sole right to sell the remedies of said company in a certain county. C is engaged in selling the same remedies in that county. Can A restrain C from selling the remedies in the county by law?

Answer.—A cannot restrain C from selling the remedies by any direct legal proceedings against C. A's remedy is against the medical company. C could not handle its remedies without its consent, so A should have the medical company refuse to allow C to handle its goods within the territory allotted to A, and if the company refuses to do so A should sue the company for damages.

RULE OF SURVEY OF LAND.

Mr. Anton Karlson, Ashland, Wis.—Section 28 in township 47 of range 4 was found to be eighty feet short on the south line. The surveyor claims that in subdividing the section he should start on the east side and measure full quarter sections, leaving the west quarter sections short, and in cases where the section is large the west quarter sections would get the excess. Is this the lawful rule?

Answer.—The lawful rule is that where there is an excess or deficiency of land in a section, such excess or deficiency shall be added to, or deducted from the western and northern parts thereof, as the case may be, hence in your case, the surveyor is correct.

WILL—LIFE ESTATE—HEIRS.

R. S. L., a Wisconsin Subscriber.—A owned property in Wisconsin valued at several thousand dollars. When his daughter, C, was married she called for her share of the property and it was granted. Later A made his will, giving each of his remaining children $11,000 in land or money, each son getting absolute title to his share, but the shares of B and D, two daughters, were given to them for their lifetimes only and then to their heirs. D has two children, both minors, and B has three living children of full age and one daughter dead, who left a son fourteen years old. About one year ago B sold her land to E, a brother, without having her heirs sign any of the papers. (1) Had she a right to do so, and could she give good title to the brother? (2) Can her heirs recover the land? (3) What steps could an heir take to have the matter investigated without letting the other heirs know about it?

Answer.—(1) B owned only a life estate in the land, and she had a right to sell that interest in it, but no more. The brother who bought it will have good title till B's death, then the land will belong to B's heirs. (2) When B dies her heirs can recover the land, as they will then own it under the terms of A's will. (3) Employ a good reliable lawyer to make an investigation.

Lap the disk one-half when working up the seed bed. Of course, it will take a little longer to do the work, but it will leave the ground smoother, and at the same time, put it in condition equal to that where it is given two separate diskings.

ARMY AUCTION BARGAINS

Saddles	$3.00 up	New Uniforms	$1.50 up
Bridles	.90 "	Army Revolvers	1.65 "
Team Harness	21.85 "	" Rptg. Rifles	1.48 "
Leggins, Pair	.15 "	" Swords	.35 "
Tents	2.20 "	" 7 Shot Carbines	2.95 "
Colts Cal. 45. Revolvers	$ 7.50 up.	Cartridges 1c each	
Sp'field Manser Sp't'g Rifle	11.85.	Cartridges 2c each	
Army Breech Loading Rifle	.98c.	Cartridges 2c each	

MARCH 1913 CATALOGUE, 400 large pages, over 500 illustrations. 15 acres Gov't. Auction Bargains described in cyclopedia catalogue, mailed 25c stamps.

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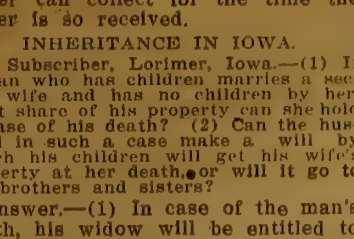
JOHN DEERE IMPLEMENTS

JOHN DEERE MOLINE, ILL.

John Deere Disc Harrows and Corn Planters

This spring pressure harrow pulverizes your soil thoroughly and puts it in condition to grow the biggest crop you ever raised. The extraordinary flexibility of John Deere Disc Harrows due to spring pressure, insures thorough cultivation of your entire field. It leaves small middles and cuts out dead furrows.

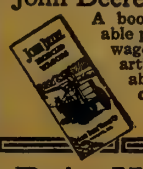


John Deere Wagons

No other implement on the farm is used as much as the wagon. Nothing is more abused. Consequently the wagon should have the quality to withstand this usage.

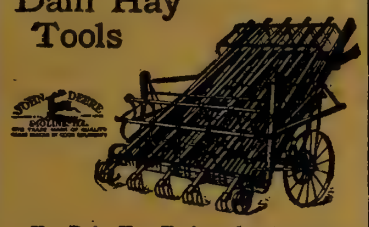
John Deere Wagons are built of oak and hickory—the best material known for wagon making. They stand up under the most severe tests, and give the satisfaction you want.

John Deere Ironclad Wagons



A booklet that gives you valuable pointers on how to buy a wagon, and other interesting articles that you should know about. See lower right hand corner of ad. and see how "to get the books you want."

Dain Hay Tools



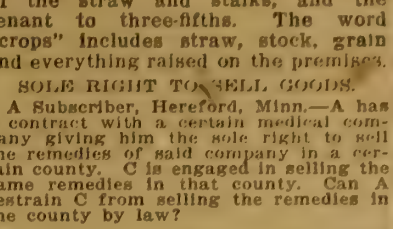
Use Dain Hay Tools and put up your hay quicker, better and more economically than with any other hay tools.

The Dain Hay Loader is easy to operate. Simple construction, few parts, nothing to get out of order. Material and workmanship of the known Dain standard, proven by service to be reliable and trustworthy. Ask your John Deere Dealer about the Dain line.

Dain Hay Loader and Side Delivery Rake tell you about how to use these tools to handle your hay rapidly and economically. Should you want information about other Dain hay tools, tell us which tool you are interested in. See lower right hand corner of ad. how "to get the books you want."

John Deere Corn Planters

The great accuracy of drop is what naturally interests you most. John Deere Planters give the highest accuracy of drop attainable. Repeated tests show ten to fifteen bushel per acre in favor of accurate planting. You profit by the increased yield due to perfect stand, by additional years of service and freedom from break down.



Bigger Crops from Better Seed Beds and More and Better Corn

Two books that will prove a great help to you in the preparation of your land for seed, and the planting of corn.

These books contain valuable suggestions by men who are experienced on those subjects. "To get the books you want," see lower right hand corner of ad.

Davenport Roller Bearing Steel Wagons

Reduces the draft; makes your hauling easy; the roller bearings do that. Haul larger loads, make fewer trips,

save time. Your time is worth money to you.

You do the same work with one horse less; if you now use three horses you will only need two; if you use four, three will do the work.

No repair bills to pay; no tires to reset; the Davenport Roller Bearing Steel Wagon is practically everlasting. The first cost is the only cost.

The steel spokes don't pick up and carry the mud like wooden spokes; they cut through it.

Ask to see the Davenport wagon at your John Deere Dealer's.

When The Going is Hard

Containing twenty-six articles on wagons. Tells you why the dish is put into the wooden wheels and other things you should know about. It is interesting and you'll like it. Lower right hand corner of ad. tells how "to get the books you want."

Better Farm Implements and How to Use Them illustrates and describes the most complete line of farm implements made. Tells when and how to use them under varying conditions—answers questions about farm machinery and is a practical encyclopedia for the farm. It is worth dollars to you. You can't afford to be without it. Write today for "Better Farm Implements and How to Use Them."

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R & V "Triumph" Gasolene Engines

Popular Farm Power

Develop even more than rated horsepower. Easily started, smooth-running, dependable. Economical in use of fuel.

Speed easily increased or decreased. Best type of magneto on the market. Portable and stationary engines.

Light
Well Built
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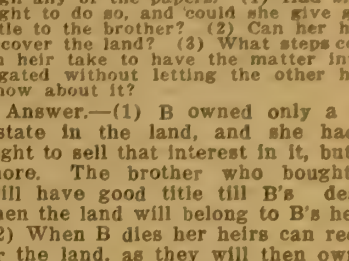
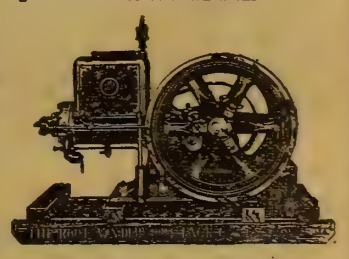


R & V "Triumph" Engines can be furnished in sizes 1 to 12-hp., with the hopper-cooling system. This cooling system does away with tank, pump, piping and fittings, making a neat, compact engine noted for its good working qualities. No air-cooled engine troubles to contend with.



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Tells you how to lessen your work every day of the week, and every season of the year. Get this book and see how your work can be made easier, at the same time saving you money. Lower right hand corner of ad. tells you how "to get the books you want."

"To Get the Books You Want"

Write to us at once stating which books you want, and they will be mailed free. To be sure that you get a copy of "Better Farm Implements and How to Use Them" ask us for Package No. X -27

KRESO DIP No. 1

STANDARDIZED.
EASY AND SAFE TO USE
INEXPENSIVE

KILLS LICE
ON ALL LIVE STOCK

DISINFECTS.
CLEANSES.
PURIFIES.

It has so many uses that it is a necessity on every farm.

CURES MANGE, SCAB, RINGWORM, SCRATCHES

Destroys All Disease Germs

DRIVES AWAY FLIES

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is the *standard* cure for Curbs, Splints, Spavin, Wind-puffs, Cuts, Bruises. It is *safe—humane.* For 30 years it has been

The PROVED Horse Cure

Your money back if it doesn't give satisfactory results. At your druggist's—or direct, prepaid—$1.00. Write today for Free Booklet—full information and testimony of many users.

W. B. EDDY & CO., Dept. H ALBANY, N. Y.

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

SPAVIN.

I have a fine, black mare, eight years old, weight 1,400 pounds. In driving her she became lame in her left hind leg at the hock joint and a small bunch appeared there and still remains. She seems to be lame at times and part of the time she is not lame.

You do not say whether the lump is at the back or low down on the front of the hock. If behind it is a curb, if in the other position it is a spavin. In either case it will have to be blistered after removal of hair, but for spavin it would be best to have the part fired and blistered and then give six weeks rest in stall.

SICK SHEEP.

A ewe took sick and died and the symptoms of her case were very peculiar. She seemed to hang her head and lean up against the side of the shed. She would shiver and shake at times and move her head around as if scared. A greenish saliva ran out of her mouth and she appeared to be blind. After the third day she refused to eat and was sick just one week. Please tell me what this disease is and also a cure for the hacking cough which sheep contract.

Make it a practice always to open a sheep after death to determine cause of death. In such cases as you describe we usually find impaction of the stomach and liver disease, due to the feeding of too much bulky, coarse roughage without laxative or succulent feed. Ewes should have bran, roots or silage, or cabbage and clover hay in addition to oats during pregnancy. Along with the impaction and liver trouble we often find nodular disease of the intestines, due to a parasite, and this and the combination of trouble proves fatal. Nodular disease is incurable. Prevent trouble by feeding in the way we have suggested and make pregnant ewes take lots of outdoor exercise every day. Cough in sheep often is due to stalling them in dirty, badly ventilated barns and sheds. Do away with this cause. Give glyco-heroin in dessert spoonful doses for cough.

DROPSY.

A bay colt two years old got to swelling in the sheath and under the belly from his four legs back not quite to his sheath. He did not seem to be in any misery only when he laid down, then he would breathe hard. I got a veterinarian and he opened the swelling and water ran out. The colt got weak and could not get up alone. He had a good appetite all the time and kept in good flesh. The swelling kept increasing until his neck and fore legs became just as tight as the hide would hold, and the veterinarian opened it again and water kept dropping out until he died. The veterinarian said it was his kidneys and liver at first and later he said it was leakage of the heart. Now I have another colt the same age, with swelling the same way. These colts ran in a stalk and meadow field and I fed them cane the first crop. I would like to know the cause and what to do for the sick colt.

Stop feeding cane hay and substitute mixed clover hay and an abundance of sound whole oats and wheat bran. The dropsical condition denotes general debility and weak heart from inadequate feeding and possibly from blood worms. Mix worm powder in the feed according to directions often given here.

WORMS.

I have about forty head of late fall or early winter pigs that have been running with their mothers in the feed lot. Some sleep at night in the hog house where they were farrowed and the larger part of them sleep in the shed on one side of the barn where the larger or fattening hogs sleep. We try to keep their sleeping quarters bedded well and warm. All the hogs are doing well but these pigs. Some of them are dead now and a good number don't want to come out to eat or drink their swill. They gradually become weaker until they can scarcely get around and seem to want to stay close to the shed. I have noticed that the pigs that sleep in the warmer quarters are in the worst condition. Their hair looks rough and staring and I am inclined to think they have worms. Could you give me a treatment for these pigs?

Cholera may be killing the pigs, in which case you should have the well ones vaccinated. If you think that worms are causing the losses dissolve one dram of sulphate of iron in the slop, once daily for five consecutive days, for each 100 pounds of body weight of pigs and repeat the treatment in two or three weeks. Pen the hogs in lots of five when under treatment.

STRINGHALT.

Have a bay mare six years old weighing 900 pounds. About three months ago she became a little stringhalted in her right hind leg and is growing worse. What can I do for her? Can it be cured with medicine? If so, how? Could a veterinarian operate on it successfully, and if so, how?

Medicine will do no good, but there would be a good chance of recovery could you have the operation of peroneal tenatomy performed by a qualified veterinarian.

MILKLESS MARE.

I have a five-year-old black mare that had her first colt last spring. The colt was alive and all right, but the mare did not have any milk for it and it died. She is in foal again. Will she have milk this time, or will I have to doctor her?

The mare should not have been bred, for she will not be likely to have milk for her foal this spring and doctoring will not produce milk flow. All that can be done will be to give her plenty of nourishing feed and make her take plenty of exercise every day.

PNEUMONIA.

I bought ten young Duroc Jersey brood sows weighing close to 300 pounds the 6th of February. About two weeks after one of them began to cough and wheeze as though she had contracted a bad cold, finally refused to eat, and in a week she died. The hogs have had the serum vaccination. Two others seem to be affected now. Will you kindly tell me a remedy?

The sow probably died of pneumonia due to wet or exposure. The others may have caught cold, or lung worms may be present in these sows and in the one that died. No certain remedy has been found for these worms in swine, but generous feeding usually enables affected hogs to withstand their ill effects. Try effects

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If your horse has sore shoulders or galls you don't have to buy medicine or send for a veterinary to cure him—all that you need to do is to see that when he works he wears

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This collar is well built—stuffed with medicated cotton throughout; remains soft and pliable until worn out, and, if fitted properly, is guaranteed to cure sore shoulders and galls. Can be adjusted to fit any shape neck. Light and cool, easy to put on and take off. The best collars to use for colts or horses just starting to work. Will not sweeny the horse.

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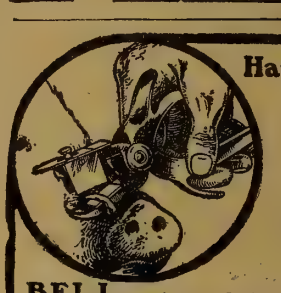

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Easy method, little expense, no pain or scars. Written guarantee with each bottle. REMOV-ALL—"Beats 'Em All" for Sprains, Curb, Bog Spavin, all lameness. Sold on money-back guaranty. Free—Treatise on curing animal diseases. Write for copy today. H. C. ADAMS MFG. CO. Dept. 14, Algona, Iowa.

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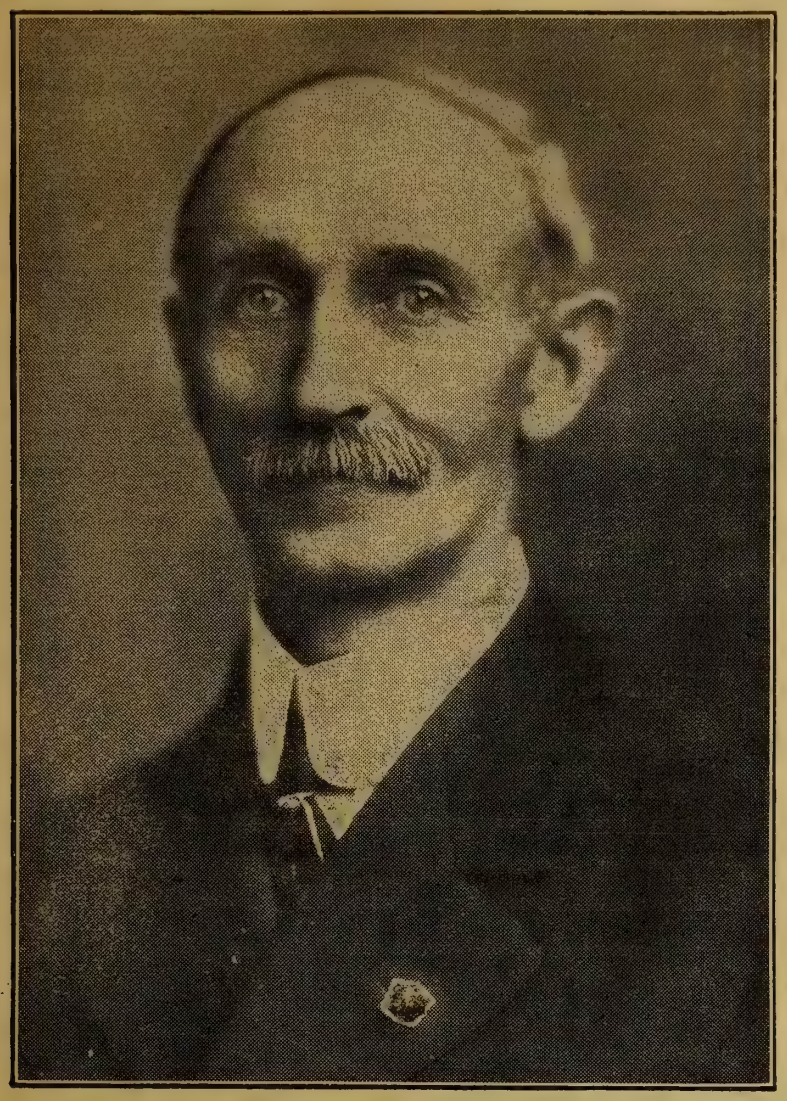
of turpentine mixed in the slop at rate of one teaspoonful for each eighty pounds of live weight. Give it each other day for a week. This treatment should not, however, be given to a pregnant sow.

Stockmen Sketches

MAN proposes, but God disposes," runs the old adage, never better exemplified than in the career of Alexander Galbraith, of De Kalb, Ill., a breeder and importer of horses who has done as much as any other living man to bring the live stock profession up to its present high standard. When Mr. Galbraith was a lad, back in Glasgow, Scotland, he was dedicated by his parents to the commercial world. There were fond dreams of supremacy in business houses, with never a thought in those early days of a career in the show ring and sales ring, the stable and the paddock. But those who planned a business career for the braw young Scot reckoned without their host. When he came to man's estate Mr. Galbraith put the plans of his elders and forebears to naught by coming to America and engaging in the horse breeding and importing business. Scottish commercialism lost a shining light, but the gain was America's and the live stock industry's.



ALEX. GALBRAITH.

Few among the many honored names in the illustrious roll of devoted, conscientious breeders rank higher than that of Alexander Galbraith. Few men have taken a more prominent part in shows and expositions. Mr. Galbraith's high standing is evidenced by the great number of honored positions he has held, with distinction and dignity, in the leading horsemen associations. For six years he was president of the American Shire Association; for eight years secretary of the American Suffolk Horse Association; for seven years secretary, and five years president of the American Clydesdale Horse Association. In addition to all these, he has served as a director of the American Hackney Society and was chosen as one of the directors in the more recently formed organization, the American Pedigree Association, which represents all breeds of live stock. That he has administered his high office in so many associations with honor to himself and advancement to the organizations testifies not only to Mr. Galbraith's administrative ability, but to his conscientious devotion to the honorable career which he has made his life's work.

Before locating at De Kalb, Ill., Mr. Galbraith spent five winters as a member of the Wisconsin Farmers' Institute force and lectured throughout the Badger state on better methods of horse breeding. As a recognized authority on draft horses and as a logical and convincing speaker Mr. Galbraith has been much sought by the agricultural colleges and agricultural associations of the corn belt. In this respect he has made for himself a most enviable "class room" record. There is a special charm about his rich Scotch brogue, one that has always made a strong appeal to the student. His splendid service has been recognized by the Wisconsin College of Agriculture, he having received special honors conferred by that institution for what he has done to improve the horse industry not only of that state, but of the United States.

The career of such a man stands as an object lesson and inspiration to others and so has an indirect, as well as a most direct, bearing upon the present and future of an industry upon which a great part of the nation's wealth and welfare depends.

ANOTHER GOOD HOG-FEEDING RECORD.

To the Editor of The Homestead:

I have been quite interested in the record that some of your subscribers have made in their hog-feeding operations and it has occurred to me that the results of my own work during the last year might interest others. One young sow farrowed six pigs February 11th and forty-three pigs were farrowed in April. As I was anxious to raise fall litters I weaned only my pigs when they were between four and six weeks old. On July 7th they were turned into a twenty-acre cornfield which was then about knee high and they were kept there continuously until Christmas, with the exception of a period of about two weeks after cutting and harvesting my oat crop. This twenty-acre field carried not only this bunch of hogs, but also a flock of lambs while 500 chickens had access to it also. October 23d I sold five of my shoats for $95 and on February 17th I shipped forty-three head and realized $997 for them or $1,092 for the forty-eight head. These shoats never had anything but ear corn and a few oats and the only dope I used was about $1 worth of copperas and sulphur. They averaged 310 pounds when they were ten months old. I might add that they were fed a little ensilage every day after they were taken out of the cornfield.

A. W. Hess.

Pocahontas county

Sloan's Liniment is a necessity to the stock farmer. Can be used for all the common ailments of horses, cattle, hogs and poultry.

"I have just used your Liniment on stifle lameness and had fine results. My horse was perfectly well in a few days."—A. M. BOATWRIGHT, of North Augusta, S.C.

Governor of Georgia uses Sloan's Liniment for Hog Cholera.

Gov. Brown says that he has never lost a hog from cholera, and that his remedy has always been a tablespoonful of Sloan's Liniment in a gallon of slops, decreasing the dose as the animal improved.

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"I had a horse sprain his shoulder by pulling, and he was so lame he could not carry foot at all. I got a bottle of your Liniment and put it on four times, and in three days he showed no lameness at all, and made a thirty mile trip besides."—WALTER B. ALDERSFORD, of La Salle, Colo., R.F.D. 1.

Sloan's Book on Horses, Cattle, Sheep and Poultry sent free.

At All Dealers. Price, 25c., 50c. and $1.00. Address Dr. Earl S. Sloan, Boston, Mass.

Abortion Test Detects Diseased Protects Healthy

Tells you which cows and heifers have the disease in their blood so that you can immediately separate them for special curative treatment. Saves the healthy which have been separated.

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Try It At Our Risk

Enables you to stop loss by using the simple sterilizing treatment with B-K gas. We treat your herd two months — then if you are not satisfied we refund your money. *Write for particulars.*

GENERAL PURIFICATION CO., 501 Pioneer Bldg., Madison, Wis.

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THE TIME IS NOW

All the winter long, the troubled owner of a lame horse reads our advertisements. Then, day after day slips away, while he talks, laments, listens, takes advice and hesitating —FAILS TO ACT—till the Springtime is on him and his horse is not yet able to work. Meantime the thrifty, prosperous, resolute man, reads, considers the evidence carefully —Decides Promptly—and his horse is working in, say, ten days to two weeks. That's exactly what happens every winter.

We Originated the treatment of horses by mail—Under Signed Contract to Return Money if Remedy Fails—and every minute of every day for seventeen years our advice and treatments have been on the way wherever mails go and horses are. Our charges are moderate. Spring work is near; Write.

Our Latest Save-The-Horse BOOK is a Mind Settler—Tells How to Test for Spavin—What to Do for a Lame Horse—Covers 58 Forms of Lameness—Illustrated. But write describing your case and we will send our—**BOOK**—Sample Contract and Advice—**ALL FREE**—to (Horse Owners and Managers—Daily.)

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Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by us Express Prepaid.

Sheep Scab Picks the Breeder's Pocket

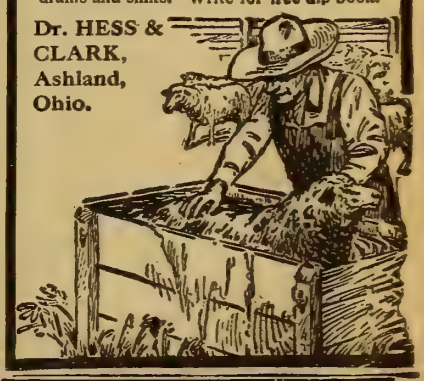
Scabby sheep pay little profit. Dollars that should fatten your bank roll are cut in half by the low price of ragged "clip" and ill-developed carcasses. Nothing but unthrift is possible with scabby sheep. Bear this in mind and forestall disaster by using

Dr. Hess Dip and Disinfectant

This meets the Government requirement as an official dip for sheep scab. Very easy to use. Provide a suitable "dipping tank" and fill with a solution one part dip to 72 of water. Then thoroughly souse all sheep, taking pains to **wet the skin well.** Repeat after 10 days and your sheep will at once show marked improvement, with a consequent rise in values.

Dr. Hess Dip is a germicide, disinfectant and deodorizer. **It destroys all germ and parasitic life.** Prevents live stock diseases and purifies outbuildings, sewers, drains and sinks. Write for free dip book.

Dr. HESS & CLARK, Ashland, Ohio.



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SICK HOGS

Cured and disease prevented with Snoddy's Powder. Clears hogs of worms. Makes hogs thrifty. Will send man and treat sick hogs on insurance. Treatment is simple. Any one can use it. $5 case cures 40 hogs. Book and test reports free. Agents wanted. **DR. D. C. SNODDY CO.,** Dr D C Snoddy Co., Dept. O. Nashville, Tenn.

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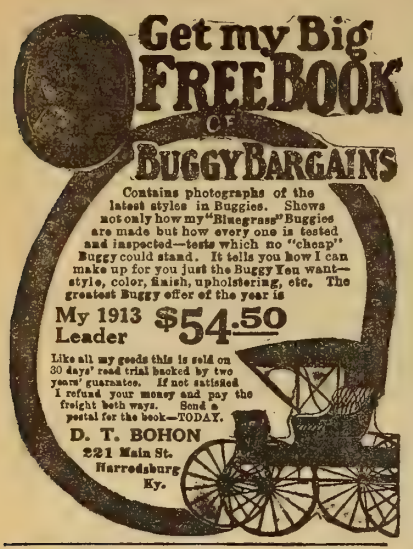


THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Ill., March 14th.—Bad distribution of supplies and the mistake of crowding the market during the week preceding Holy Week abstemiousness has cost cattle shippers many dollars this week. Chicago has received during the week 48,000 cattle. This is not a big run, although 5,300 in excess of the week previous, and Missouri river markets have also had moderately increased supplies, but it was too many to make possible a retention of last week's good prices and the manner in which it was distributed made conditions the worse, Chicago receiving 26,100 head of her week's crop of 48,000 on Monday, while only 12,500 arrived on Wednesday, the other big day of the week in the Chicago cattle trade. This feast and famine style of marketing resulted in a glut and a bad, costly break, besides adding variously to the cost and difficulty of handling the business. The prompt manner in which supply was shut off following the Monday decline, however, indicates how strongly supply is held in the country and how readily growers suspend loading operations whenever prices are depressed a notch.

Beef steer trade of the week showed its best phases in the early Wednesday trade—its worst at the week-end, when packers, apprehensive of sluggish dressed beef markets the coming week and well fortified from Monday's heavy purchases, were most indifferent bidders. Lenten season influences are now practically out of the way; however, there is nothing particularly bullish in the outlook. Demand for beef ought to pick up after next week, but the trade is keeping an eye open for evidence of an expanding marketward movement of southwestern grassers. A run of fat Texas grass cattle has been forecasted and as feed is abundant down there the forecast is getting some credit. A free movement from that quarter would speedily break prices, as everything makes beef and at present prices that commodity can accumulate fast. Fort Worth, Tex., received its first consignment of fat south Texas grass cattle this week and they sold at $7.55, a record price for grassers on that market.

Quotably, beef steer trade is 15 to 35 cents lower than a week ago. The market has been very uneven, both as to time of sale, different sections of the yards and the various kinds of cattle, but at most times fat handy-weight bullocks have had the call and $8.40 to $8.65 grades have shown less variation in value than other classes. The proportion of ripe, qualitied steers selling at $9 to $9.15 has been small and they are not more than 15 cents lower for the week, but 25-cent declines are most common on plain steers with weight and the low-grade light killers selling between $7.50 and $8.25. A spread of from $7.75 to $8.75 is taking 90 per cent of current receipts, with the bulk of the good fat 1,200 to 1,400-pound steers going at $8.35 to $8.65. Quotations are:

Prime steers, 1,350-1,700 lbs.	$9.00@9.15
Choice steers, 1,250-1,500 lbs.	8.85@9.15
Choice steers, 1,100-1,240 lbs.	8.75@9.00
Good to prime yearlings	8.40@8.75
Medium to good yearlings	8.00@8.40
Common to fair yearlings	7.25@7.90
Good steers, 1,100-1,400 lbs	8.20@8.60
Good steers, 900-1,200 lbs	8.00@8.60
Fair steers, 900-1,200 lbs	7.65@7.90
Medium steers, 850-950 lbs	7.40@7.50

Buyers have taken a deep slash at cow and heifer values this week, and while there is still room for some more wide declines before she stuff can by any stretch of the imagination be called cheap, prices present a pretty ragged appearance when measured against the record rates in force last week. Buyers' assertion that butcher stock has been unreasonably high is not open to dispute, and this week with some little increase in supply and a contracted demand from all sources, good headway was made with the downward revision of the price list. The declines came, for the most, subsequent to the early Wednesday market. Canner cows are least affected, holding within 10 to 15 cents of last week's prices, while the better grades of cutters and medium killers, now selling from $4.85 to $5.65, are closing 25 to 35 cents lower and good to choice fat cows and heifers are easily off as much. At week-end a very good set of fat cows sell at $6.15 to $6.65 and $6.75 to $7.50 takes a choice to prime class as well as good to choice heifers, although a fancy class of fed heifers, such as were selling here a week ago and early this week up to $7.85 to $8.40, is now worth $7.60 to $8.25. Competition from Texas grass cattle is expected to develop sufficient breadth within the near future to work against the restoration of the record prices in vogue last week, but the trade sees prospects of a few weeks of comparatively light receipts ahead, and as the breeding microbe is in the air everywhere, it is not improbable that the Southwest's contribution to market supplies this spring will prove as large as it is being advertised in some quarters. Local receipts are carrying a very generous proportion of plain and medium cows emanating from dairy regions and comparatively very little good corn feds of desirable beef-making strains. Bulls have been in short supply all week and are selling 10 to 15 cents higher, with bolognas making new record sales and going from $6.10 to $6.50 for plain light to good, heavy meaty sorts. A good many good beef bulls have reached $6.75 to $7, and prime have sold upward to $7.40. Anti-Easter demand for calves to supply eastern veal markets for the Easter trade caused 50 cents to $1 advances in veal calves, 75-cent to $1 gains being most general and prime vealers touching $12, a record price. A seasonable expanding marketward movement, hurried by these prices, which have put veal in the list of luxuries, is promised, and minus the urgency of demand for the Easter trade, which has been responsible for this week's big advance, declines are more than probable. Quotations:

BEEF COWS.

Choice to prime fed cows	$6.75@7.75
Good to choice cows	6.00@6.75
Fair to good cows	5.50@6.00
Com. to fair butcher cows	5.00@5.50

CANNERS AND CUTTERS.

Good to ch. heavy cutters	$4.80@5.00
Fair to good light cutters	4.60@4.80
Fair to good canners	4.15@4.45
Poor to fair canners	4.00@4.15

HEIFERS.

Choice to prime heifers	$7.35@8.15
Good to choice fed heifers	6.65@7.25
Fair to good heifers	6.15@5.65

BULLS.

Good to choice bolognas	$6.30@6.50
Light and medium bolognas	6.00@6.30
Canner and poor light	5.00@5.90
Fair to choice butchers	6.50@6.90

VEAL CALVES.

Good to choice vealers	$11.25@12.00
Fair to good light vealers	10.75@11.25
Strong weight vealers	7.75@ 9.25
Good to choice stock calves	7.00@ 7.65
Inferior to fair hvy. calves	4.75@ 6.25

Stock and feeding cattle buyers have had opportunity this week to lay in supplies at cheaper rates, by virtue of a liberal supply and the lack of strong killer competition for fleshy classes, but when the first blush of green begins to steal over the landscape a recurrence of recent buying activities that have recently kept the trade keyed up to such a high pitch is not at all improbable. Many in the trade believe the present the most opportune time to buy, as better selections can undoubtedly be made than later, as it is not expected current liberal marketings will much longer continue, as thin cattle are always much scarcer and harder to buy near grass time. Some high-qualitied selected steers are selling up to $8.10 to $8.20 to feeders, and they look as high, on paper, as a week ago, but they are very well-fleshed cattle on which country buyers were being regularly outbid by killers last week and which are being taken out for thirty to sixty-day feeds. At $7.85 to $8 a choice class of fleshy feeders and around $7.65 to $7.75 choice steer yearlings are selling. They look 10 to 15 cents cheaper than a week ago. Thinner plain to good qualitied stock and feeding steers are 25 to 35 cents under late last week and such grades of 600 to 900-pound weights are going largely from $7 to $7.60, common light stock steels down around $6.50 to $6.75, and stock and feeding heifers from $5.65 to $6.40. Quotations:

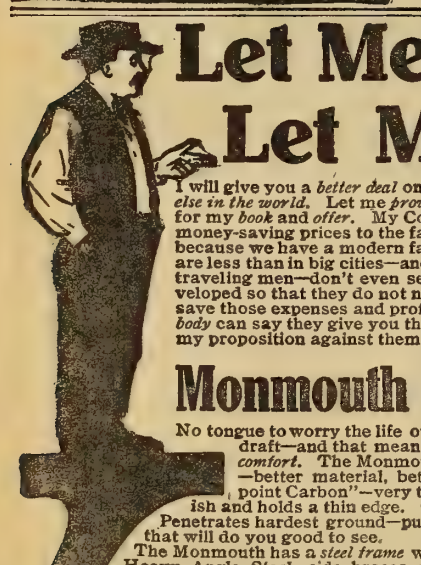
FEEDERS.

Selected, 900-1,110 lbs	$7.80@8.20
Fair to good	7.25@7.75
Common to fair	6.60@7.25
Feeding heifers, com. to good	5.75@6.40

STOCKERS.

Selected, 500-700 lbs	$7.40@7.75
Fair to good	6.90@7.35
Common to fair	6.00@6.90
Stock heifers, com. to good	5.40@6.15

One of the big surprises of the season in the hog trade came on Monday when 68,745 head of hogs reached the Chicago market, making the biggest supply within a period of more than four years. It proved to be merely a "flash" brought out by the establishment of the



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I will give you a *better deal* on a tongueless disc than you can get *anywhere else in the world*. Let me *prove* it to you. Send me your name on a postal for my *book* and *offer*. My Company has made it possible for me to quote money-saving prices to the farmers of this whole country. We can do it because we have a modern factory in a medium size city, where expenses are less than in big cities—and because *we sell direct to you*. We do not have traveling men—don't even sell to dealers. Our machines have been developed so that they do not need to be set up and started by experts. We save those expenses and profits and *give you the benefit* of the saving. *Anybody* can say they give you the most for your money but I'm willing to put my proposition against them all and *let you decide*.

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No tongue to worry the life out of your horses—no neck weight—no side draft—and that means better work because your horses work *in comfort*. The Monmouth has the greatest Disc Blades ever made—better material, better temper. It's what we call "125-point Carbon"—very tough and hard—takes a splendid polish and holds a thin edge. Cuts like a finely tempered knife blade. Penetrates hardest ground—pulverizes lumps and cuts sod in a way that will do you good to see.

The Monmouth has a *steel frame* with Wood Cushion. The Main Cross Piece is Heavy Angle Steel—side braces are Stiff High Carbon Steel. Square timber through the center acts as a Cushion between side braces—gives it a bit of flexibility—keeps frame from buckling under heavy strain—prevents springing out of shape. Many other features all told about in my new book. Hard Maple, Oil-Soaked Bearings easily lubricated. Forward Trucks make it as easily turned around as a plow. Scrapers held by Coil Spring in just right position to prevent clogging—occasional foot pressure cleans discs in stickiest soil. Furnished with Transport Trucks, Cutaway Discs, Plow Cut Discs—in all sizes.

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All Freight Prepaid
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No neck weight—no side draft. Discs that are *sharp* and *stay* sharp. Wood Cushion that keeps bolts from shearing—prevents frame from springing. Many other features all told about in free book—and the best bargain-price ever made on any disc that approaches the Monmouth Quality.

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Remember, I will pay the freight, (or not, as you choose) I will give you 30 days' free trial, 5-year guarantee and a price, direct from factory, that will make you sit up and take notice. Write me. A postal will do. I will also save you money on a plow, cultivator, gasoline engine, cream separator, grain drill, mower, rake and other farm needs. My book tells all. Write for it now. Address The Plow Man, with

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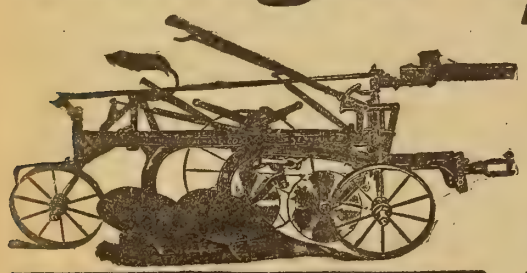
Dust-tight Hard Maple Bearings

Badger Bottom Makes The Famous 6-Time World's Champion JANESVILLE Turn Furrows Like These



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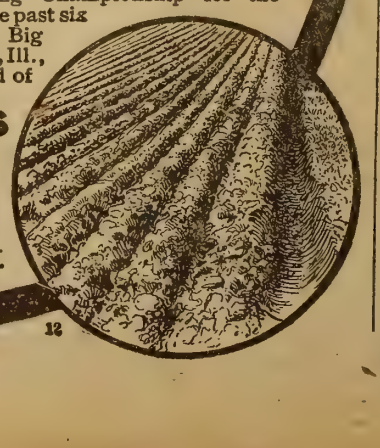
PERFECT furrows like these have won the World's Plowing Championship for the Janesville for the past six years. In 1912, at Big Rock and Wheatland, Ill., Janesville won again—with a record of

16 Out of 21 Prizes

—93 percent and 95½ percent for perfect plowing. The Badger Bottom raises the ground **only high enough to turn over on its own corner.** Handles all soils perfectly. Scours in soil that **never before** could be touched with a plow. Many other advantages besides wonderful Badger Bottom. Foot trip horse lift, point first action going into and coming out of soil, simple self-leveling plow, control of bottom in all positions. Many other features all fully explained in our book—sent **free.**



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Read the history of Janesville Plows—how the Janesville won so many World's Championships, how we worked on design of the bottom as well as on many other features.

We also make the famous Janesville Walking Plows, Riding or Walking Cultivators, Disc Cultivators, Disc Harrows and Corn Planters. We will be glad to send you all the Janesville books you request, free. Address postal or letter now. Mail it today.

THE JANESVILLE MACHINE COMPANY
31 Center Street, Janesville, Wis.

12

9-cent quotation on last week closing session and by reason of the storm of the week previous having prevented shipments from some sections. That the supply was needed is well indicated by market conditions, eastern shippers taking 19,500 and lights being within 5 to 10 cents of last week's best closing prices, while packing grades were only 15 cents lower and closed strong. Receipts have since been light and the market has steadily advanced, reaching today the highest average basis of the season with a $9.12½ top and an $8.80 to $9 bulk, or about a 15-cent higher basis than a week ago. Packers are beginning to realize that holding down hog values is a hopeless task. The big houses need more hogs the worst way and are no longer drawing mental pictures of a bargain counter to be subsequently erected. Instead of holding hogs back, growers have been feeding them into the market hopper right along, and the surplus predicted has existed only in the imagination of Packingtown. When oats seeding time and the rush of other spring farm work arrives more pyrotechnics are expected to be shown in the trade. Today's quotations:

Bulk of sales	$8.80@9.00
Mixed, 215-250 lbs	8.75@8.85
Mixed, 170-200 lbs	8.90@9.00
Medium weights	8.85@8.90
Light butchers	8.95@9.05
Heavy butchers	8.85@8.95
Light shipping	9.00@9.12½
Heavy shipping	8.85@8.95
Heavy packing	8.55@8.75
Rough heavy packing	8.40@8.55
Throwout packing sows	8.00@8.40
Fair to choice light	8.85@9.10
Light-light, 125 to 165 lbs.	8.80@9.05
Pigs, good to fancy	8.25@9.00
Pigs, inferior to fair	7.25@8.20
Boars, poor to good	4.00@5.00
Stags, subject to dockage.	8.80@9.30

Week's trade in sheep and lambs has been very irregular and uneven. Light lambs have been seasonably popular, more so than usual even at this anti-Easter period, because of the entire absence of spring lambs of the new crop and because of the unusually large percentage of heavy lambs in the run. Culls and good 60 to 70-pound lambs are selling as high as a week ago, the best 75 to 90-pound weights are closing 10 to 15 cents lower and heavy lambs a full 25 cents lower. Wethers and yearlings have sold irregularly, but are averaging about steady, while fat, tidy-weight ewes—a very scarce commodity—show 10 to 15-cent advances. Thus far very little shorn stuff has shown up, but warm weather of the past week has decided many holders of stock that need a longer feeding period to shear before marketing. Dressed lamb trade at big eastern distributing centers is closing nearly 1 cent per pound lower than a week ago, creating doubt in the ranks of sellers as to the ability of the market to hold prevailing prices during the coming week. There is no liberal supply pressing on the market just now, but certainly no big crop is needed.

Quotations below are for wooled stock:

Lambs, good to prime handy.	$8.65@9.00
Lambs, good to prime heavy.	8.00@8.65
Lambs, fair to good natives	8.35@8.75
Lambs, common to fair	8.00@8.35
Lambs, culls	6.75@7.75
Wethers, good to prime	6.65@7.00
Yearlings, fair to ch. handy	7.50@8.25
Yearlings, fair to ch. heavy	7.10@7.50
Ewes fair to best handy	6.15@6.85
Ewes, fair to prime heavy	6.00@6.75
Ewes, culls	4.00@5.00
Bucks	4.50@5.50
Lambs, feeders and shearers	7.50@8.30
Wethers, feeders	5.50@6.25

PROF. E. R. BENNETT JOINS ROCK ISLAND STAFF.

To the Editor of The Homestead:

Prof. E. R. Bennett, horticulturist of the Colorado Agricultural College and Experiment Station, has been appointed horticulturist for the Rock Island lines and began work March 12th.

Professor Bennett has made a marked success in raising and marketing fruit and vegetables in three states having very different conditions—Colorado, Connecticut and Michigan. He is the best authority in the United States on potatoes. His best efforts will be given to building up fruit, berry, melon and potato growing throughout the territory served by the Rock Island lines in fourteen states. Professor Bennett graduated from the Michigan Agricultural College, paying his way by working in the forcing houses, gardens and orchards. He was also instructor in pruning and grafting.

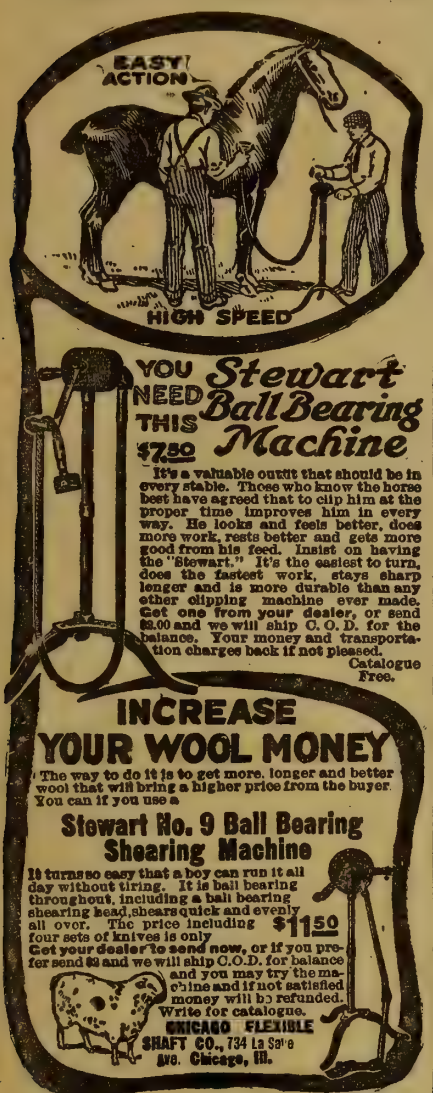
His first commercial work was with a large Michigan peach orchard, where by special methods of pruning, grading and packing he secured a net of $1.80 a bushel. Peaches from other orchards sold for $1. He took charge of a large, old, neglected apple orchard and put it in such shape that the fruit on account of its superior size and quality sold for double the market price. Professor Bennett was on the staff of the Michigan Inspector of Orchards and Nurseries and cleaned up the San Jose scale in a large number of orchards and nurseries.

For three years he was with the Connecticut Agricultural College, working with fruit and truck crops, sometimes having fifteen men working under him. His first demonstration was made in the great peach orchards of J. H. Hale. Besides fruit he made a specialty of melons, tomatoes and potatoes. In many fields he doubled the yields.

For seven years Professor Bennett has been with the Colorado Agricultural College, three years of that time being given entirely to the development of the potato industry. He induced many farmers who were getting from $20 to $40 an acre from other crops to plant large tracts of potatoes, thereby getting an average return of $65 to $150 an acre.

For the past four years his work in Colorado has been to develop orcharding and the growing of berries and vegetables, particularly cabbage, cauliflower, celery and onions. He has secured a return of $1,000 an acre in a single season from celery. He has paid special attention to the market end of the business.

H. M. Cottrell.
Agri. Com. Rock Island lines



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It's a valuable outfit that should be in every stable. Those who know the horse best have agreed that to clip him at the proper time improves him in every way. He looks and feels better, does more work, rests better and gets more good from his feed. Insist on having the "Stewart." It's the easiest to turn, does the fastest work, stays sharp longer and is more durable than any other clipping machine ever made. Get one from your dealer, or send $8.00 and we will ship C. O. D. for the balance. Your money and transportation charges back if not pleased. Catalogue Free.

INCREASE YOUR WOOL MONEY

The way to do it is to get more, longer and better wool that will bring a higher price from the buyer. You can if you use a

Stewart No. 9 Ball Bearing Shearing Machine

It turns so easy that a boy can run it all day without tiring. It is ball bearing throughout, including a ball bearing shearing head, shears quick and evenly all over. The price including four sets of knives is only $11.50

Get your dealer to send now, or if you prefer send $8 and we will ship C.O.D. for balance and you may try the machine and if not satisfied money will be refunded. Write for catalogue.

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STOP this loss. **Go over the middlemen's heads**—buy direct from our mills and **get all that you pay for.**

And remember—Quality is as important to you as price. A house built with poor stock is labor and money wasted. Every piece of lumber you buy from us is clean, new, high-grade stock. *Guaranteed* to be up to standard of specifications or better. It is not picked-over lumber. No local Line Yard can give you our quality of lumber at our price, because their stock is limited and they do not get it at first hands.

Our enormous supply—the biggest in the middle west—enables us to give you exactly what you want, in size and quality. **No substitutions** which make your lumber **cost you more in cash and labor.**

THESE ARE POINTS TO REMEMBER

You'll be surprised how much money we save you even on the smallest orders. **YOU TAKE NO RISK.** We guarantee every item of every shipment to be satisfactory, or it may be returned at our expense and your money refunded.

If you buy as much as a car load **WE'LL REFUND YOUR RAILROAD FARE BOTH WAYS.** Come and pick out what you want in our big yards.

Lumber is advancing. Buy now before the advance, for all your spring, summer and fall building. Send us list of what you need and let us quote you.

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1 ply, 35 lbs. to sq. only $1.15 a sq. *Guaranteed 5 Years.*
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OUR 1913 MODEL STANDS FOR QUALITY EFFICIENCY AND SERVICE

EXPERIENCE CONCENTRATION PERSEVERANCE

In these three words lies the key to the success of the "Flour City" Tractors. The result of fourteen years' specialization, continually concentrating on improvements of mechanical design, has made the "Flour City" what it is today.

The 1913 "Flour City" surpasses all previous models in mechanical efficiency. It embodies all the desirable features that enter into the construction of a successful farm tractor. Its development has been guided by the requirements outlined by the progressive farmer, along the most conservative lines. Its reputation is of the character that comes through actual work in the field.

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FLOUR CITY TRACTORS

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And, at the same time, put in an old reliable Schroeder Upright Driveway Elevator. Save time, save trouble, save expense, and get more for your grain by holding out for highest prices. With a Schroeder Elevator built right into your crib one man handles all the work easily in any position.

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It is the first grain elevator ever made and has never been approached by imitators. It leads the field in every way—in make, in capacity, in sales. For engine or horsepower.

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FREE BOOK on request. Tells all you want to know about Grain Dumps and Elevators. Get a copy today.

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has Oakes double disc self-regulator, correct hot water heating system, copper tank and boiler, safety lamp, double walls and double door, with dead air space all over, roomy nursery and strong egg tray, Tycos thermometer. I also supply egg-tester, Edw. Miller sun hinge burner, funnel, everything you need, including valuable instruction book.

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If you want your machine quick order direct from this advertisement. I guarantee everything to be satisfactory or your money back. Any bank or express company will tell you that I do exactly as I say. I ask you to send only $7.55 for my 140-Egg Incubator—the best you can buy at any price, or $4.85 for my 140-chick Belle City Brooder. You can save more money at my unheard of low combination price—send only $11.50 when both are ordered together.

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Successful In Any Climate—

The X-Ray Incubator

Shipped *direct* to you from factory. No agents. No dealers. Guaranteed to please you. Freight prepaid *anywhere!* Only incubator made on right principle. Lamp is placed *underneath*—square in the center—and not on the side. Thus the X-Ray has perfect distribution of heat all throughout egg-chamber. There's no cold side. Big lamp holds four to eight quarts of oil—fill it once for a hatch.

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—has patented automatic trip. That cuts flame down at *burner* when egg-chamber gets too hot. So there's no waste, no excess heat. Thus only one gallon of oil is needed. These time and labor-saving features are wonderful! Think of operating a guaranteed incubator that

Uses Only One Gallon Oil to a Hatch—Lamp Only Has to be filled once!

And there are many other patented features. Top has two double glass panels—Thermometer in sight always. Eggs are never removed from X-Ray. To ventilate or turn eggs simply raise lid. Write today for Free Book No 41 on X-Ray Incubators and Brooders. X-Ray Brooder guaranteed to raise *every* chick worth raising. We pay freight.

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Incubator leader of the year. Built for a lifetime service—big hatches sure. Redwood case, Basswood inner walls, dead air space, asbestos lined. Double heating system, double regulating, perfect ventilation. Has greatest improvements ever made in incubator. Book proves it. Surprise on price saves you $5.00 or more. Write me a postal *now*. Get my book. Read the facts. Then decide. Address

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These wonderful, sanitary, *patented* nests can't get out of order—last a life time and earn their cost many times over.

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POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

TRAP-NESTING.

To the Editor of The Homestead:

This communication was sent to me by a poultry man in northern Wisconsin, relative to some quotations about trap-nesting:

Be sure to read this, as it seems to knock the trap-nesting theory "into a cocked hat." If I mistake not I think I have read articles from your pen supporting that theory and practice. It seems to me I can see one good reason supporting these conclusions, viz.: A hen laying 200 eggs a year will meet such drafts on her reproductive system that she will not transmit to her offspring her own vitality and characteristics as a hen will that lays fewer eggs. Hence a 200-egg hen is not very likely to be the mother of a 200-egg daughter. The law of heredity breaks down. Am I right? If you poultry doctors can't agree, you will get us laymen "wool-gathered." But we're all here to learn and experience is our teacher. The main thing is to have a good motive.

This criticism was given, and received, in the right spirit. It takes many different people to bring out the right ideas. The writer of the above referred to an experiment at the Maine station where a lot of hens were trap-nested with the intention of selecting the best-layers, as foundation stock and breeding only from these until a flock of hens that would average 200 eggs each was produced.

After this experiment was well under way only male birds whose dams had a record of 200 or more eggs were used. This was continued for nine years, with the result that the record was lowered each year. Similar tests have been carried on at different experiment stations with the same lack of success in the increase of egg production.

I have never taken a particle of stock in the great wave of enthusiasm about the average farmer, which practically means the farmer's wife, trap-nesting a farm flock. This proceeding would mean that the flock must be yarded, cared for and the nests visited hourly, or oftener, by a woman who must do all her own house work, be the gardener through the busy season and all the incidentals that fall to the lot of the average farm woman. It is easy to know which is which and who is who in poultry write-ups and you can safely wager that no working poultry woman ever advised trap-nesting a farm flock, this in view of the fact that 95 per cent of the whole poultry output is raised by these selfsame women.

I do not wish to be understood as putting the trap-nest theory to the bad. It has its mission and it is a good one. The element of value in a fowl cannot be shown, because it is an invisible quality, except by the trap-nest. Point out any man who has made a success of producing commercial eggs and you will find a poultry keeper who has bred his own birds, year after year, until his flock reflects his idea of what they should do in egg production. He has bred his birds to have a tendency in the right direction. This tendency becomes stronger, and the birds are bound to reproduce their distinctive qualities in the offspring. Only for this, the domestic fowl would be laying just enough eggs for reproduction, as did her prehistoric ancestors.

It is true that not every hen will transmit her tendency to lay to her descendants; also is it true that in a few isolated cases a hen never lays an egg. These are exceptional cases and due to some individual characteristic.

The most probable cause for failure in poultry is the lack of stamina in the flock. This lack of snap and go may be brought about in many ways. In the method of housing, wrong feed, poor foundation stock, and by no means least, the growing of the young stock. Too often experiments are conducted on limited quarters where the chicks must grow in partial confinement. To carry them safely through life, chickens, as well as boys, need unrestricted range where they can run and grow a lot of bone—good hard bone—and muscle and where they must needs breathe pure air. It is possible to produce more eggs from yarded, yes, and trap-nested fowls than range stock, but bear in mind that I do not want them to be grown in limited quarters.

If all eggs from the hens in question were used for incubation, it is not to be wondered if the succeeding generations showed up weak and anemic. After a hen has produced her weight in eggs many times, she is a run-down machine and must rest. After the first few eggs a hen lays we get the strongest chicks from the beginning of her laying period when she is in full flesh and vigor. This vitality gradually wanes and at the

Uncle Sam's Poultry Book

is the greatest chicken book printed. None other like it. Written by the government experts, and gives all the secrets of the business they have learned from years of experience. Tells all you want to know about the practical poultry business. It's only 20 cents, but worth $10.00 to anybody. By our plan you can get 50 cents back. Send today 2 dimes, or 10 2-cent stamps. Use this great book with the world-famed and unequaled hatcher, that never fails, the

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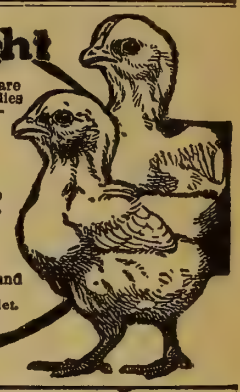
Feed Growing Chicks Right

They must be furnished with the right kind of material if they are to make satisfactory growth of muscle, bone and feather. Profit lies in quick growth and early maturity. Rush those cockerels to marketable size and turn them into cash before prices fall. Get the pullets completely developed and ready to fill the nests with fall and winter eggs.



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contains just the necessary ingredients to give them during the first three weeks the best possible start, at a cost of 1c per chick. In boxes and bags, 25c, 50c, $1 up. After the third week mix

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175 Egg INCUBATOR and BROODER BOTH FOR $10.85

Delivered Freight Paid (East of the Rockies)

The biggest incubator bargain of the season. Think of it! You can now get the prize winning Wisconsins—winners in the three big hatching contests for only $10.85 for 175 egg capacity, or

125 Egg Incubator and Brooder Both for $10

Why take chances with cheaply constructed machines when you can get machines built of genuine California Redwood with Hot Water heat, double walls, dead air space between, double glass doors, copper tanks and boilers, self regulating and extra deep nursery under egg tray, incubator and brooder are shipped complete with thermometers, lamps, egg testers—set up ready to use when you get them.

(20) **5 Year Guarantee—30 Days' Trial** We agree to keep our machines in repair for five years FREE of charge except parts broken by carelessness. We also allow 30 days trial right in your own home. Incubators finished in natural colors showing the high grade California Redwood lumber used and not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today or send in your order direct from this advertisement and save time. Money back if not satisfied. Write us today. Don't delay. **WISCONSIN INCUBATOR CO., Box 119, Racine, Wis.**

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THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The cause and tells of a cure. **Book Absolutely Free for the Names.**

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Egg Maker

Compounded by Geo. H. Lee

55 per cent. blood meal, best meat food for laying hens and growing chicks. Salts, spices and matter fowls must have to do well. Contents sworn to under Pure Food Law. 25c, 50c, $2.00, 100 lbs. $7.00. Lee's Lice Killer is death to lice, harmless to fowls. Kills by fumes. 35c, 60c, $1.00.

Try GERMOZONE

Lee's greatest poultry preparation, in use 15 years, cuts chick losses 90 per cent. Ideal remedy for *Roup, Colds, Cholera, Chicken Pox, Bowel Complaint, etc.* Tones and puts life into fowls of all ages and is best guarantee against contagion. Given in drinking water. Price 50c. Valuable Lee Books on poultry and incubators, free. Address

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

SAVES HER LITTLE CHICKS.

Dear Sir: For the benefit of your readers you may print the following. "I have been in the poultry business for years and have lost thousands of incubator chicks from bowel trouble or White Diarrhoea. Three weeks ago, I sent 50c (M. O.) to the Walker Remedy Co., U. 4, Lamoni, Iowa, for a package of their Walko Remedy, and since using it have had splendid success. Raised over 90 per cent and lost only a few from bowel trouble. Never had such a thrifty flock of the little downy fellows. If more poultry raisers knew of this remedy there would not be so much loss from that dread disease, White Diarrhoea.

Mrs. J. L. Shoemaker, Lucerne, Kan.

PFILE'S 65 Varieties LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box Freeport, Ill.

50 Best Paying Varieties Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs. Dogs and Incubators. All at Low Prices. Send 4c. for my Book which gives reliable information worth many dollars to you **W. A. WEBER, Box 910 Mankato, Minn.**

55 BREEDS Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Collie Dogs. Send 4c for large Poultry book Incubator Catalog and Price List. **M. H. HINIKER, Box 32 Mankato, Minn.**

When writing to advertisers please mention The Homestead.

PLYMOUTH ROCKS.

White Plymouth Rock Eggs

PEN No. 1 is headed by 1st cockerel at Grinnell. Pen No. 2 is headed by a cockerel that was sired by a cockerel that was GRAND CHAMPION at Detroit, Mich., in 1912; eggs from these two pens $2 per 15. My utility flock is headed by cockerels scoring 94 and 96; all birds weigh 8 to 11 lbs. each. Utility eggs, $1.00 per 15; $2,00 for 30; $3.00 for 50;$6.00 for 100. Address CHAS. L. BERRY, Iowa City, Iowa.

WHITE PLYMOUTH ROCKS AND WHITE PEKIN DUCKS CHOICE flock of White Rock pullets mated to cocks scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30;$3 per 45;$7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn.Mated to him are 9 hens weighing 10 lbs.ea. Eggs $3.00 per 15; $5.00 per 30. Extra good flock of ducks headed by drakes which were sired by fowls scoring 97 points. Eggs $1.50per 11; $2.00 per 22; $4.00 per 50.. Fair hatch guaranteed or eggs replaced at half price. Order early. Address **John W. Houselog, Bellevue, Iowa.**

EGGS from PRIZE MATINGS

I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellenbarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address
HENRY LINKE, - Wayne, Nebraska.

Barred Plymouth Rock Eggs

FIFTEEN for $1; 30 for $1.75;100 for $5. Stock scoring to 93½. Grand in size, males weigh 10 to 12 lbs.; Blue ribbonwinners. My customers are not disappointed when chicks are grown. Hawkins, Thompson and Bradley strains. Guaranteed good hatch and safe delivery. Catalog free. Address
S. V. LATCHAM, WOODWARD, IOWA.

"PARTICULAR" BARRED PLYMOUTH ROCKS

THE winning and laying kind; eggs $2.50, 15; $4,30. Pen 1 headed by a son of our 1st ck.S.D.StateShow. Pen 2, ckl. of same line, eggs from a bunch headed by 6 choice ckls., $1.25, 15; $2, 30; $5, 100. Good hatch guaranteed. J. M. Detwiler, R. 3, Dunlap, Iowa.

BARRED ROCK ECGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1, 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

Exhibition Barred Rock Ckl.

From our 1st prize pens. Pure Bradley very closely related to Chicago and New York winners Prices $2.00 to $10.00 each. Satisfaction guaranteed.
Albert A. Foster, - - Russell, Iowa

BUFF PLYMOUTH ROCKS

BRED from LAYERS and WINNERS. A few hens for sale at $1 each. Some scored cockerels and a few scored pullets for sale. Write and stats what you are interested in buying. Address
J. O. KOERTH, - - Ionia, Iowa

White Rock Eggs for Sale

FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100.
CHARLES GUTH, - - Berwick, Iowa.

EGGS FROM QUALITY

BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $5 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

Elm Hill Farm Barred Rocks

"Weight with Quality"
SEND for catalog of matings, prices, winnings and description of stock. Address
J. E. GOODENOW, MAQUOKETA, IOWA

WHITE ROCK EGGS

EXCLUSIVE range; using cockerels of the Fishel strain; a carefully selected flock. Prices $1.50 per 15, $3.50 per 50, $6.00 per 100. Only selected eggs sent out. Address A. C. Binnie, Alta, Iowa.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15,$1;30,$1.75;50, $2.50;100,$4. Mrs. Minnie Lonker, Wilton Junction, Ia.

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B. Winthrop, Iowa.

PARTRIDGE ROCK COCKERELS Bred from $50 Nofitzgen male $5.00 each. Address C. W. McQuiston, Monmouth, Illinois.

EGGS from Grove Hill strain B. P. Rocks. Extra good layers. From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock, R. 5, Neola, Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100,$6. Write for particulars. Grant Lynn, Spirit Lake, Ia.

WHITE Rocks, 92 to 95¼; eggs $2.00 per 15, utility flock $1.00 per 15 or $5.00 per 100. Address
MRS. JAS. PEDLEY, R. 3, Britt, Iowa.

EGGS from H.S.Barred Rocks and S.C.R.I. Reds, $1.50 per 15, $5 per 50, $5 per 100. Also M. W. P. ducks $1.50 per 11. Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

B. P. R. eggs for hatching, from large well-barred birds. Good laying strain. 15 for $1.00, 45 for $2.25, 105 for $5.00. Mrs. J. H. Hellman, Holstein, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50,$2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

PURE-BRED Barred Plymouth Rock Eggs, $1.25 for 15, Write for larger amts. Large and well-marked birds in season. Wess Whetstine, Wellman, Ia.

B. P. R. eggs from large, fine, barred birds; good laying strain; ckls. scored 90-92½; wt. 10-12 lbs. 15,$1.50; 30, $2.25. G. J. Pfeil, R. 3, Central City, Iowa.

EGGS FOR HATCHING—B. P. Rocks, large boned, narrow barred, good laying strain. $1.00 for 15, $6.00 for 105. **James H. Howarth, Moulton, Ia.**

White Plymouth Rock Eggs and ckls. for sale; good scored stock. Write for prices. Mrs. E. C. Turner, R. 1, Griswold, Iowa.

end of three months strong chicks are not to be relied on.

If the busy house wife desires to improve her flock by trap-nesting, a few choice hens of her flock may be yarded and the trap-nest used to advantage in producing cockerels for the range flock, thus breeding up. However, it is possible to buy new stock each year from a heavy-laying strain, cull out the drones and there will be a noticeable improvement.

Minnie G. Stearns.

The last act of James Wilson as secretary of agriculture was to reinstate C. G. Elliott as chief engineer of drainage investigation in the department of agriculture. Mr. Elliott was dismissed by Secretary Wilson for his attitude in the department of agriculture's connection with the Florida everglades investigation. A congressional committee vindicated him.

POINTERS.

—C. Klaus, Manchester, Iowa, has Buff Orpington eggs for sale. His advertisement appears elsewhere in this department.

—Single Comb Buff Orpington eggs are offered for sale by Alfalfadell, Farnam, Neb., in the advertisement appearing elsewhere in this department.

—The advertisement of Mrs. J. H. Rayl, Afton, Iowa, offering eggs from large, heavy-boned Black Langshans, appears elsewhere in this department.

—The advertisement of Mrs. A. M. Johnson, Clarks, Neb., offering eggs from Single Comb Rhode Island Reds, appears elsewhere in this department.

—E. L. Dickerson, Ragan, Neb., is quoting prices on several varieties of chickens and ducks in his advertisement appearing elsewhere in this department.

—Mrs. John Holmgren, Rolfe, Iowa, is quoting prices on eggs from high-class Rhode Island Reds in her advertisement found elsewhere in this department.

—Elsewhere in this department of The Homestead will be found the advertisement of H. M. Scott, Vinton, Ia., offering Ringlet Barred Plymouth Rock eggs for sale.

—F. M. Mack, Spencer, Iowa, is offering thirty-five fine Barred Plymouth Rock cockerels for sale in his advertisement that appears elsewhere in this department.

—Single Comb Buff Orpington eggs from a yard headed by high-scoring cockerels are offered for sale by James Sample, Port Byron, Ill., elsewhere in this department.

—Dixen & Champlin, Iowa Falls, Ia., are offering Single Comb Rhode Island Red and Buff Cochin eggs for sale in their advertisement found elsewhere in this department.

—W. E. Briggs, Woodbine, Iowa, has two pens of topnotch Single Comb Rhode Island Reds. Prices on eggs will be found in his advertisement appearing elsewhere in this issue.

—Mrs. T. J. Link, Winterset, Iowa, quotes prices on Rose Comb Rhode Island Red eggs from a choice range flock in her advertisement that appears elsewhere in this department.

—Mrs. C. C. Richardson, Indianola, Iowa, is quoting prices on Single Comb Buff Orpington and Single Comb White Leghorn eggs in her advertisement appearing elsewhere in this department.

—Davenport & Mack, Belmond, Iowa, breed Rose Comb Brown Leghorns exclusively. Their advertisement containing prices at which they can furnish eggs appears elsewhere in this department.

—F. C. Roberts, Jolley, Iowa, is prepared to furnish Homestead readers with Single Comb Buff Orpington and Black Langshan eggs. His advertisement appears elsewhere in this department.

—Buff Orpington eggs from the pure Cook strain, bred for winter layers, are offered for sale in the advertisement of E. D. Hamann, Persia, Iowa, in his advertisement found elsewhere in this department.

—Mrs. S. M. Thompson, Birmingham, Iowa, can supply Homestead readers with Barred Plymouth Rock eggs from choice pens and also her utility flock as per advertisement found elsewhere in this issue.

—E. R. Herrick, Glenwood, Iowa, is quoting prices on eggs from Partridge Wyandottes, bred from state fair prize winners, combining beauty and utility, in his advertisement appearing elsewhere in this department.

—J. E. Goodenow, Maquoketa, Iowa, requests Homestead readers in his advertisement found elsewhere in this department to send for his catalog of Barred Plymouth Rock matings, prices, winnings and description of stock.

—Will A. Petersen, 1423 Cedar St., Muscatine, Iowa, is prepared to supply Homestead readers with Buff Plymouth Rock eggs, the fertility of which he will guarantee. His advertisement will be found elsewhere in this department.

—Mrs. Wm. Stoll, LeMars, Iowa, in sending copy for her advertisement found elsewhere in this department, writes: "I have fine pens of cockerel matings, both Bradley and Ringlet strains, stock direct. Anyone wanting eggs for hatching should give me a trial. My birds have that fine, narrow barring so much sought for, and are of a great laying strain. My mating list is now ready and will be sent free for the asking."

—The White Feather Poultry Farm, H. L. Darby, proprietor, Hazelton, Ia., breeds Single Comb White Leghorns exclusively. The price at which he can furnish eggs will be found in his advertisement elsewhere in this department.

—Gilford Pitcher, Earlville, Iowa, whose advertisement offering Single Comb White Leghorn eggs for sale appears elsewhere in this department, has a fine flock and we believe that those who order eggs from him will make no mistake.

—Eggs from Rose Comb White Wyandottes of the Duston strain and Single Comb Buff Orpingtons from the Martz and Adams strain are offered for sale by William Sommer, Perry, Ill., in his advertisement that appears elsewhere in this department.

—The Seward County Poultry Association, Beaver Crossing, Neb., can supply Homestead readers with eggs from eight popular varieties of chickens and three different varieties of ducks, geese and turkeys. Write them for prices as per advertisement that appears elsewhere in this department.

—"I have been raising White Plymouth Rocks for several years," writes Mrs. A. F. Peterson, Red Oak, Iowa, in furnishing copy for her advertisement found elsewhere in this department. "My flock is headed by birds scoring 92½ to 93¾. They are pure white and healthy, farm-raised stock. I breed White Plymouth Rocks exclusively."

—We desire to call the attention of Homestead readers to the advertisement appearing elsewhere in this department of J. M. Detwiler, Dunlap, Iowa, in which he is quoting prices on Barred Plymouth Rock eggs. Mr. Detwiler has two pens from which he will be able to supply eggs this season. He will guarantee a good hatch.

—Look up the advertisement of Fred Post, Moulton, Iowa, that appears elsewhere in this department. He is offering for sale eggs from extra large, high-scoring, first-prize-winning Barred Plymouth Rocks, Pekin ducks and White Holland turkeys. Homestead readers wanting large size and frame should order of Mr. Post a few sittings of his matings.

—E. A. Kauffman, Lockridge, Iowa, under their proper classifications in this department of The Homestead, is offering Houdan and Single Comb Brown Leghorn eggs for sale and fawn and white and pure White Indian Runner duck eggs. We suggest that Homestead readers wanting anything of this kind should consult the advertisements referred to.

—Under the duck heading in this department of The Homestead will be found the advertisement of Mrs. Howard Niswander, Kinross, Iowa, offering eggs from her high-scoring flock of fawn and white Indian Runner ducks. There will also be found under the Orpington head Mrs. Niswander's advertisement offering Single Comb Crystal White Orpington eggs for sale.

—K. Hemmen, Blairsburg, Iowa, in sending copy for his advertisement found elsewhere in this department, writes: "I have a fine flock of the champion laying strain of Indian Runner ducks. They have been laying since February 1st. They are all young ducks, hatched last July. I can please Homestead readers who are in the market for heavy layers and good stock."

—W. W. Baskerville, Earlville, Iowa, in furnishing copy for his advertisement offering Black Langshan cockerels and eggs for sale, that appears elsewhere in this department, writes: "I have a fine flock this year of about sixty extra fine, large hens and pullets. They are a nice, glossy black and mated with four extra good, large-boned cockerels, two of which score 94, and I am offering the eggs at bargain prices."

—In furnishing copy for her advertisement offering Rose Comb Rhode Island Red eggs for sale that appears elsewhere in this department, Mrs. S. J. Marsh, Knoxville, Iowa, writes: "I have a fine flock of clean, healthy, well-selected stock. I have never had the roup on the farm and feel proud of my stock. I hatch and raise my stock with hens and believe they are stronger and more vigorous for breeders."

—A. C. Binnie, Alta, Iowa, has a carefully selected flock of White Plymouth Rocks from which he will furnish eggs

TURKEYS

MRS. J. E. BAXTER Walnut Grove, Minnesota, has Mammoth White Holland turkeys for sale. Toms $5.00, hens $3.00. Write your wants.

MISSOURI KING and GIANT M.B. turkey hens; toms all sold; eggs $5.00 per ten. Also B. P. Rock eggs from prize stock, 45 eggs for $2.00. Address Henry Schlatter & Sons, Lawler, Iowa.

FOR SALE M. B. turkey toms $5 and $6. Address Mrs. Mae Freeland, Douds Leando, Iowa.

Order Now Eggs from 28-lb. M. B. T. hens, large Buff and White Orping; ton chickens. Address Steve Morlan, Plano, Iowa.

M. B. TURKEY EGGS $2.75 for nine. Pekin duck eggs $1.75 for 11. MRS. A. KITSON, - AUDUBON, IOWA

MAMMOTH WHITE HOLLAND TURKEY eggs from stock winning 1st premiums at Iowa State Fair, 1912. $3.50 per 10. Longworth's, Polk, Ia.

GEESE.

TOULOUSE GEESE Toulouse geese eggs from very large-framed birds, weight 20 pounds and over, 6, $1.50; 18, $4.00. Address FRANK A. GOULD, Rockwell City, Iowa.

MAMMOTH TOULOUSE GEESE. Eggs sold from old geese only. Geese weighing 52 pounds. Also White Rocks. M. Lippert, New Hampton, Ia.

PLYMOUTH ROCKS.

OGC'S BARRED ROCKS

BEST ever. Yards headed by first cock, State show, 1912, Bradley cockerel sired by New York champion; cock. pen brother to 1st Chicago cockerel sire. Pen eggs, $3 for 15; $5 for 30, range $2.50 for 30, $4.00 for 100. Address Mason C. Ogg, Monroe, Iowa

B. P. Rock Eggs for Hatching

FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price, 15, $1.50; 30, $2.25, $4.00 per one hundred eggs Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams, J. Rossbachman, Blakesburg, Ia.

"RINGLET" BARRED PLYMOUTH ROCK EGGS

FROM prize-winning birds, from all pens, $2.00 per sitting. H. M. Scott, 903 Iowa St., Vinton, Iowa.

Bradley Barred Rocks and S. C. Reds

Scored, unscored. New blood for all customers satisfaction guaranteed. Frank Santee, What Cheer Ia.

40 P. R. Rock and Golden Wydt. ckls. narrow barred and have quality. One million strawberry plants. Special prices to Homestead reader. J. L. Todd, R. 3, Des Moines, Ia.

EGGS—Barred P. Rocks, from 10-pound female, 12-pound males. State show first prize winners. Free catalog showing real photos of prize winners. A. D. MURPHY & SON, ESSEX, IOWA.

35 Large, vigorous, line-bred Barred Plymouth Rock cockerels for March delivery at $2.00 each. Address F. W. MACK, - Spencer, Iowa.

WHITE P. ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS Pure-bred Barred Rocks. $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15,$3. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

PURE-BRED White Rock eggs; birds scoring 91¾ to 95¾. Pen, 15, $3.50; 100, $12. Range, 15, $1.50; 100, $5.50. **H. L. NEFF, Dallas Center, Iowa.**

EGGS from large White Rocks at 5 cents per egg. Address
Mrs. H. Wood, Moville, Ia.

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30,$1.25;100,$3. J. M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.50 per 15;$7 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

WHITE ROCK EGGS Send me your orders now for future or present shipment. Write B. W. Eckels, Nevada, Iowa

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BARRED Plymouth Rocks, Pekin ducks, W. H. turkeys; eggs, Rocks 15, $1.25; 30, $2; ducks 10, $1.50; turkeys, 10, $3.50. Fred Post, Moulton, Iowa

Barred Rock eggs; bred to lay, Bradley strain, largest type, best breeding; choice pens $2 and $3 per 15; utility 15,$1.50. Mrs. S. M. Thompson, Birmingham, Ia.

FOR SALE Eggs for hatching from select pen of Buff Rocks. Fertility guaranteed. Will A. Petersen, 1423 Cedar St., Muscatine, Iowa.

Barred Rock Eggs 15 for $1.00;45,$2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50. $3, 15, Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

White P. Rock Eggs

100, $2.50; 15, $1. Mrs. O. P. Constable, Norwalk, Ia.

BARRED ROCK EGGS. Thompson's Imperial Ringlet stock direct. Also Bradley Bros. strain. Send for mating list, Mrs. Wm. Stoll, R. 10, Le Mars, Ia.

EGGS for hatching from White Plymouth Rocks at $1 per 15; $3 per 50; $5 per 100. Farm raised, high-scoring. Mrs. A. F. Peterson, R. 5, Red Oak, Iowa.

BARRED PLYMOUTH ROCK EGGS $1 per sitting, $4 per 100. White Embden geese eggs $2 per sitting. A. A. Jaynes, Osgood, Mo.

BRAHMAS.

LIGHT Brahma cockerels, pure-bred fancy stock. Also eggs for hatching, 1st pen, 15, $2; 2d pen, $1.50 or $3 per 100. Write Mrs. Geo. Craig, Afton, Ia.

LIGRT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

MINORCAS.

EGGS S. C. Black Minorca, blue ribbon, ideal laying strain, FERTILITY TESTED, setting of 15 eggs from three choice pens, $3, $2. $1 each. Mixed $1.50. Liberal discount for larger orders. C. G. DAKE, Epworth, Iowa.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

BLACK MINORCAS Eggs in season, 15 for $2 30 for $3.50, 50 for $6.00 Address H. L. Simpson, R. R. 13, Epworth, Iowa

ORPINGTONS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK

EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

Martz Strain Buff Orpington Eggs

FOR SALE—This is direct from the prize-winning stock; I have two pens mated since Feb. 15 and am now ready to ship eggs and guarantee 12 fertile eggs. Pen No. 1, $2.50; No. 2, $1.50 per 15. Address ROY E. BULECHEK, - HILLS, IOWA.

Fortmann's Single Comb White Orpingtons

ARE strictly high class and superior type that usually is not found in White Orpingtons. 10 grand matings for this season's egg trade. Now is the time to place your order for eggs. Address Frank Fortmann, Box 23, Dyersville, Iowa.

S. C. BUFF ORPINGTON EGGS

CHOICE pen $2.50 per 15. Choice selected flock $1.50 per 15; $5 per 100. Indian Runner ducks, Fawn and White, eggs $1.00 per 13. Address MRS. H. H. REED, R. F. D. 5, MARENGO, IA.

EGGS from prize-winning S. Comb Buff Orpingtons, two special pens, Martz and Rogers strains, $3.50 per 15; utility flock, free range, 15, $1.25; 100, $5.50. Also highs-coring fawn and white I. R. duck eggs, $1.50 per 13; $4.50 per 50. Jas. McKendrick, Ernie, Ia.

S. C. BUFF, BLACK AND WHITE ORPINGTON cockerels, hens and pullets. High quality, prize-winners, scored, unscored. Shipped on approval at reasonable prices. Eggs in season. E. B. Conable, Box C, Independence, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

S. C. WHITE ORPINGTON

KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock; price 15, $2. Frank G. Myers, Iowa City, Ia.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 per 100; Utility flock $5 for 100 Book orders early. V. H. Conner, Shell Rock, Iowa

SINGLE COMB BUFF ORPINGTON EGGS Yard headed by high-scoring cockerels. $1.50 per 15; $2.75 per 30; $4 per 50; $7.00 per 100. Address James Sample, Port Byron, Ill.

S. C. CRYST. L WHITE ORPINGTON EGGS from large, healthy birds, fine laying strain; sitting, $1.50. Write for prices on larger orders. Mrs. Howard Niswander, Kinross, Ia.

Crystal White Orp. Eggs Prize winners in 4 shows, $2.00 to $5.00 a setting. F. R. Schwatzer, Central City, Neb.

S. C. BUFF ORPINGTON EGGS, 15, $1.25; 30, $2; 50, $3; 100, $5. Cook strain. A choice lot. Also 50 pullets. Address Dan McCarty, Winthrop, Ia.

EGGS. S. C. Buff Orpingtons, farm range, $6.00 per 100 or $1.50 per 15. Good type and color. Cook strain. Address Mrs. W. E. Zimmerman, Neola, Ia.

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

White Orpington Eggs $2.00 per 15; $5.00 per 50; $8.00 per 100. Mrs. George Alkman, R. 1, Box 30, Audubon, Iowa.

KELLERSTRASS STRAIN S. C. W. Orpingtons. Eggs from "bred to lay" prize-winning stock, 15 $2; order early. D. B. Storck, Box 793, Cedar Rapids, Ia.

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15, $1.50; 30, $2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

S. C. W. Orpington Eggs $2 per 15, $4 per 45 or $7 per 100. Address M. D. Korns, Hartwick, Iowa.

EGGS from pure Cook strain Buff Orpingtons. Four yards, each headed by a blue ribbon winner. Write for mating list. Wm. Cook, Eddyville, Neb.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

FARM range S. C. Buff Orp. eggs. Prize-winning stock; good type and color; are offering eggs at $1 per 15, $5 per 100. Glenn Heninger, Hedrick, Ia.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, high-scoring, 13, $2; 35, $4; 100, $10. Address B. M. HALL, Ellsworth, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Buff Orpingtons Yearlings, young stock and eggs for sale. Prices right. Glynn Poultry Yards, L. B. 69, Cascade, Iowa.

KELLERSTRASS WHITES—Eggs $1.50 per 15 or $8.00 per 100. S. C. Buffs $5.00 per 100. ORPINGTON FARM, Big Rock, Illinois.

EGGS S. C. Buff Orpington, 4 club specials, 16 prizes Prices $5, $4, $3, $2, and utility pen at $1 Mating list ready. E. N. Silker, Epworth, Iowa

S. C. Buff Orpington eggs $1.00 per 15 and $5.00 per 100. S. C. White Leghorn eggs 75 cts. per 15 and $4.00 per 100. Mrs. C. C. Richardson, Indianola Ia.

S. C. WHITE Orpington eggs, $1.50 per 15; $8.00 per 100 Also S. C. R. I. Reds, farm range, $1.00 per 15; $5.00 per 100. G. N. Stoner, Ladora, Iowa.

ORPINGTONS S. C. Buff Orps. Splendid size and color, excellent layers, farm range. Eggs $5 per 100. Anna Pratt, Beaver Center, Neb

BUFF Orpington eggs, $2 per sitting. stock direct from Martz's prize-winning and egg-laying strain. Satisfaction guaranteed. C. Klaus, Manchester, Ia.

ORPINGTONS.

KELLERSTRASS White Orps.—Eggs, fertility guaranteed. Original stock hatched from eggs direct from Kellerstrass. Great winter layers. Eggs, 51, $1.25; 50, $3.50; 100, $6. Woodlawn Farm, Sterling, Ill.

WHITE ORPINGTONS Kellerstrass strain, eggs from choice pens. Pen No. 1 has a score of 93. Address J. H. Hartshorn, Traer, Iowa.

EGGS from pure Cook strain Buff Orpingtons. Bred for winter layers, $1 per sitting, $5 per 100. Address E. D. Hamann, Persia, Iowa.

EGGS for hatching, from farm range, Single Comb Buff Orpingtons, 75c per 15; $2.00 per 45; $4.00 per 100, Fred Massure, Linden, Iowa.

Single Comb Buff Orpingtons and Black Langshan eggs; good stock; $1.50 for 15 eggs. Book orders now. Address F. C. Roberts, Jolley, Ia.

DUCKS.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address Henry Schehl & Sons, R. 2, Prophetstown, Ill.

INDIAN Runner ducks, fawn and white. Our flock was started from eggs from a choice flock of pure-bred Indian Runners. Our ducks have not been forced for winter laying, which we think is detrimental to successful hatching; plenty of range; are in No. 1 condition; few drakes $1.50 ea. Eggs $1.25, 13; $6, 100. Will Rasmusson, R. 2, No. 63, Nevada, Ia.

Eggs from Mammoth White Pekin Ducks

HEADED by drakes scoring 97. 97¼. Won blue ribbon at Oswego, Kansas, poultry show, 1912. $2 for 13; $4 for 30; $6 for 50; $10 for 100. Address JOHN M. HALL, - Williams, Iowa.

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. F. P. HEALY, Bedford, Iowa.

PEKIN ducks and R. C. White Wyandottes. Our ducks are from very high scoring 11-lb. drakes and 9-lb. dams. You can't do better eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6. Address JOHN M. HALL, Williams, Iowa.

Pekin Duck Eggs from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 13; pen 2, $1.50 per 13. Address EDW. MEYER, Dyersville, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from fawn and white, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners $2.00 per 12. Address E. A. KAUFFMAN, Lockridge, Iowa.

EGG ORDERS NOW BOOKED from our champion strain of Indian Runners that won all firsts at Chicago. A few choice drakes. F. L. Reinhard & Son, Ottumwa, Ia.

WE are offering 100 extra choice breeding trios of pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address Rahn & Son, Box 144, Clarinda, Iowa.

FAWN AND WHITE I. R. DUCK EGGS Flock scoring up to 96. State fair winners, W. egg strain, $1.50 per 13. Address Mrs. Howard Niswander, Kinross, Iowa

EGGS—Pekin ducks, headed by drake scoring 96½ that won FIRST at Dubuque show, $1.50 per 13. Address MRS. M. W. COAN, Little Cedar, Iowa.

INDIAN RUNNER DUCK Eggs, $1.50 per 13. Pure white eggs. Address Jennie Rider, R. No. 2, Farmington, Iowa.

I. R. ducks, both fawn and white, and the English penciled. Special prices on eggs for Feb. and March orders. Nishna Collie Kennels, Oakland, Ia.

TRUE fawn and white I. Runners. Ducks scored to 94½. drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. MRS. C. A. ROBINSON, Griswold, Iowa

DUCKS Indian Runner ducks, Fawn. Great layers. 13 eggs for $1.00. Anna Pratt, Beaver Crossing, Neb.

INDIAN RUNNER duck eggs, pure-bred, fawn and white, laying strain, high-scoring eggs $1.50 per 13. Address K. Heinmen, Blairsburg, Iowa.

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

BLACK Langshans, winners Keosauqua, Ottumwa, Fairfield; score 93-95. I. R. Ducks, score 95-97½, farmers' prices, cir. Bert A. Randell, Mt. Zion, Ia.

EGGS, B. and W. Langshans, S. C. Buff Orps., Lt. Brahmas, R. C. R. I. Reds, from high-scoring stock. 15, $1.50. Mrs. S. E. Newell, R. 6, Audubon, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

BLACK LANGSHANS Large-boned cockerels $2.00 each. Three $5.00 Eggs in season. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

Black Langshans Ckls. all sold. I am booking orders for eggs now. Birds scoring 90 to 95 points. CAP OAKS, Adair, Iowa.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Bassterville, Earlville, Iowa

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

RED CAPS.

ENGLISH Red Caps. Eggs from imported English Red Caps $4 per sitting. These birds are direct from London prize winners. Imported stock only. Address LEE O. WOLFE, Titonka, Iowa.

at prices named in the advertisement found elsewhere in this department. The cockerels used in Mr. Binnie's flock are of the Fishel strain.

—The advertisement of Geo. Hunt, Earlville, Iowa, offering Single Comb Rhode Island Red eggs for sale appears elsewhere in this department.

—For prices on Single Comb Rhode Island Red eggs read the advertisement of Mrs. Geo. Turpen, Jefferson, Iowa, that appears elsewhere.

—See the advertisement of J. H. Hartshorn, Traer, Iowa, that appears elsewhere in this department, if wanting to purchase White Orpington eggs.

—For prices on White Plymouth Rock eggs read the advertisement of Mrs. O. B. Constable, Norwalk, Iowa, that appears elsewhere in this department.

—Elsewhere in this department of The Homestead will be found the advertisement of R. S. Tennyson, Clarksville, Iowa, offering White Wyandotte eggs for sale.

—White Embden geese and Barred Plymouth Rock eggs can be secured from A. A. Jaynes, Osgood, Iowa, at prices named in his advertisement elsewhere in this department.

—The White Wing Poultry Farm, Perry, Iowa, advertises White Wyandotte eggs and baby chicks for sale in their advertisement appearing elsewhere in this department.

—Joseph Reber, Shelbyville, Ill., is offering eggs for sale from Rose Comb Silver Laced Wyandottes and Rhode Island Reds in his advertisement appearing elsewhere in this department.

—Eggs from high-scoring, strong, vigorous Rose Comb Reds can be purchased of A. Christopherson, Garden City, Iowa, at prices named in his advertisement elsewhere in this department.

—M. A. Easthouse, Hartley, Iowa, reports that he is entirely sold out of Barred Plymouth Rock cockerels. His new advertisement offering eggs for sale will be found elsewhere in this department.

—Miss Maggie Henning, Ira, Iowa, has a flock of Rose Comb Rhode Island Reds considered above the average. Prices at which she will furnish eggs from her two pens will be found in the advertisement elsewhere in this department.

—Mrs. Sophia Rader, Laurel, Iowa, writes that she has a choice lot of farm range Single Comb Rhode Island Reds good in color, size and laying qualities. Prices on eggs are stated in her advertisement elsewhere in this department.

—Mrs. J. W. Kiesling, Cromwell, Ia., is offering pure-bred White Wyandotte eggs at a very low figure from a fine laying strain in her advertisement appearing in this department. She writes that she will fill orders for eggs promptly.

—E. E. Healy, Bedford, Iowa, has been a breeder of Barred Plymouth Rocks for seventeen years. He has good ones this season from which he can supply Homestead readers with eggs at prices named in his advertisement in this department.

—G. H. Schaller, Earlville, Iowa, has a fine flock of Light Brahmas, the best he has ever owned. They have farm range and are healthy and he is selling the eggs very cheap, quality considered. His advertisement appears elsewhere in this department.

—E. P. Hartman, Lake View, Iowa, has White Leghorns good enough to be winners at Des Moines, Sioux City, Cedar Rapids and other points in the state, from which he is offering eggs for sale at prices named in his advertisement elsewhere in this department.

—Mrs. F. B. Dann, DeWitt, Iowa, is offering Rose Comb Rhode Island Red eggs for sale elsewhere in this department. In furnishing copy for advertisement she writes: "We would not waste money advertising anywhere but in The Homestead; it surely does bring great results."

—Eggs from Single Comb Buff Orpingtons of splendid size and color are advertised for sale by Anna Pratt, Beaver Crossing, Neb., in her advertisement found elsewhere in this department. She is also advertising under proper classification Indian Runner duck eggs for sale.

—Under their proper classified headings in this department will be found the advertisements of the Woodlawn Farm, Sterling, Ill., offering Single Comb Rhode Island Red, Kellerstrass White Orpington and Single Comb White Leghorn eggs for sale. Readers of The Homestead interested should read the advertisements.

—Mrs. H. H. Reed, Marengo, Iowa, is advertising Single Comb Buff Orpington eggs of the Cook strain at $2.50 per fifteen from her choice pen, and $1.50 per fifteen or $5 per $100 from her choice selected flock. She also is selling Indian Runner ducks, fawn and white eggs at $1 per thirteen. Write her if you want something good.

—Mrs. Henry Queckborner, Chadwick, Ill., writes: "My flock of Single Comb Rhode Island Reds have the run of the farm; they are healthy and have layed well all winter. I sell my eggs at prices within the reach of all. I guarantee good fresh eggs well packed." Her advertisement will be found elsewhere in this department.

—"The Single Comb White Orpington eggs that I am offering for sale are from good, healthy stock, of good color and shape, of the Cook-Kellerstrass strain, and from a $100 pen," writes G. N. Stoner, Ladora, Iowa, in furnishing copy for his advertisement found elsewhere in this department. "The Single Comb Rhode Island Red eggs are from birds that are healthy and have had

LEGHORNS.

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address DAVENPORT & MACK, Belmond, Iowa.

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00; 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Rose Comb Brown Leghorns

EXCLUSIVELY.

15 Years with this variety. Cockerels or pullets $1.50 each; 6 for $7.50. Hens 1 doz. $12. Eggs, 100, $5; 200, $9. R. R. Stewart, R. 2, Charles City, Ia.

S. C. W. LEGHORNS

CHALK WHITE. Six blue ribbons Des Moines, 1912. Eggs $2 to $5 per 15. Utility $6 for 100. Address J. M. Williamson, R. 1, Des Moines, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address R. S. Ketcham, Box H, Boonville, Indiana.

R. C. B. L. sitting eggs from my scored pen $1.25 for 15, and I. R. D. eggs, pure fawn and white, $1.25 a sitting, $5 per 100. Farm range $4.00 per 100. Address MRS. G. W. BROCKWAY, Clarksville, Ia.

S. C. W. LEGHORN eggs by the 100. It is not the price that is high but the quality. Write me your wants. J. W. Robinson, Route No. 1, Truro, Iowa

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 A. B. JORDAN, - Moravia, Iowa.

S. C. W. Leghorns; eggs from a strain with blood lines well established; $4.00 per 100, $1.00 per 15. Also fancy imported pen (Campbell strain of Canada) $2.50 per 15. Address Geo. Gaul, Tipton, Iowa.

Must Sell My choice flock of S. C. W. Leghorn hens and pullets. Young's strain. As I have to move March 1 will make special prices for quick sale. C. H. Drake, Lisbon. Iowa.

WHITE Leghorns, (single comb), winners at Des Moines, Sioux City, Cedar Rapids, and all over the state. Eggs, $1.00, $2.00 and $3.00 per 15; $4.00 per 100. E. P. Hartman, Lake View, Iowa.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

S. C. B. LEGHORN EGGS from silver cup prize winners, $1.50 per 15. Mrs. Monroe Marts, R. 2, Ottumwa, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

SINGLE COMB BROWN LEGHORN baby chicks $12.00 per 100. Let us book your order now for future delivery. E. A. Kauffman, Lockridge, Iowa.

S. C. and Rose C. B. Leghorns Trapnested 12 yrs. Eggs $1.00 per 15; $5.00 per 100. Fairview Farm, West McHenry, Ill.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

S. C. W. Leghorns. Young's. Eggs, exhibition matings, $2.50, $1.50, $1 per 15; $5 per 100; chicks $12.50 per 100; circular, Mrs. Wilson McIntyre, Red Oak, Ia.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

S. C. BUFF LEGHORNS Eggs from high-scoring, prize winning stock $1.50 per 15, Ckls for sale, $5 each. R. E. Colburn, Weyauwega Wis

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 and $4.50 per 100. Eggland Farm, Mt. Vernon, Iowa.

S. C. BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S. C. W. LEGHORNS. Pure white, persistent layers. Eggs, $1.50 per 15; $5.00 per 100. Geo. S. Phillips, Tecumseh, Nebraska.

S. C. Brown Leghorn Eggs from scored farm range stock. 75 cents for 15, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. C. BROWN LEGHORN COCKERELS. Good healthy, well-marked birds, $1.50 each; 3 or more cheaper. F. Bollmann, Wall Lake, Ia.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100, From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

BABY CHICKS from fancy S. C. W. Leghorns, high-scoring, 10c each. Eggs $1.00 per sitting. M. E. La Shorne, Epworth, Iowa.

Eggs For Hatching S. C. White Leghorns exclusively, 15 for 75c. 30 for $1.25, 100 for $3.00. Address Gilford Pitcher, Earlville, Ia.

S. C. WHITE LEGHORNS Young's strain. $1 for 15; $3 for 50; $5 for 100. Woodlawn Farm, Sterling, Illinois.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.00; 30, $2.75; 50, $3.00; 100, $5.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

WYANDOTTES

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

EGGS. BABY CHICKS
WHITE WYANDOTTES
$5.00, $3.00, $1.50 per 15; $7.50 per 100. All infertiles replaced once. Send for mating list. WHITE WING POULTRY FARM, C 294, **Perry**, Iowa.

Faha's Silver Laced Wyandottes Grand type
Superb lacing. Trap-nested layers. 50 fine breeding pens at $10 per pen if taken soon. Write me your wants. Frank Faha, Jr., Box 620, Dyersville, Iowa.

EGGS from high-scoring stock. White Wyandotte, Kellerstrass, White Orpington and Buff Orpington. $1 per 15; $5 per 100. Fawn and white I. R. ducks, $1.25 per 13. A. G. Dreher, Audubon, Iowa.

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, its free, John A. Johnson, R.2, Pilot Mound, Ia.

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15. $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

Large Strain of Buff Wyandotte Cockerels
FROM high-scoring birds, choice ckls. $3, good ones $2, utility stock cheaper. J. M. Sheehan, Stuart, Ia.

SCALES' SNOW WHITE UTILITY White Wyandottes. Eggs for hatching, farm flock. $1 per 15; $6 per 100. Special pen, show birds, $2 per 15. N. W. Scales, Iowa City, Iowa.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $2 for 15, $3.50 for 30. R.S.Tennyson, Clarksville, Ia.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble. Mrs. M.C. Humphrey, Derby, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wyandotte Eggs 15 for $1, 100 for $5. Choice mating, 15 for $2. A few pullets $1 each. E. G. Brockway, Indianola, Iowa.

PARTRIDGE WYANDOTTES Ckls. scored and unscored. Reduced prices to close out. Egg orders booked. Thos. L. Morlan, Indianola, Ia.

EGGS from prize winning, good laying strain White Wyan., $1.00 per 15, $5.00 per 100. Address E. G. Pont, Atlantic, Iowa.

BUFF WYANDOTTE eggs for sale. Good stock and farm range. $1.50 per 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

White Wyandotte Eggs 15 for $1. 100 for $4.
Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

PUREST and BEST White Wyandotte eggs, $1.25 per 15; nothing better at any price. Mrs. C. Lionberger, Humboldt, Neb.

BUFF WYANDOTTE COCKERELS Farmers' fowls, $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

White Wyandotte Ckls. The snow-white three-dollar kind for $1.50 if taken at once. A. J. Podendorf, Logan, Ia.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

WYANDOTTES—Pure-bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94, 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices. R. B. Rowe, Indianola, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Ilsley, Milo, Ia.

CHOICE WHITE WYANDOTTE COCKERELS, $1.25 to $1.50 to close. Large, vigorous, sure to please. **E. S. DYAS, Bellevue, Iowa.**

White Wyandotte Eggs $1.00 for 15, $4.00 for 100; from state show winners. Address **ETHEL B. SHAW, R. 6, Newton, Iowa.**

Partridge Wyandottes. The beauty breed; eggs for hatching from prize-winning birds. Write for prices. H. Nobiling, Perry, Iowa

PARTRIDGE Wyandotte eggs from high-scoring birds, hens up to 93¾, ckl. 94½; pen 1, $2.13; pen 2, $1.50, 13. Circular. Edw. Meyer, Dyersville, Iowa.

R. C. White Wyandotte eggs, Duston strain; S. C. Buff Orpington, Martz and Adams strains, eggs $1.50 for 15. Address William Sommer, Perry, Ill.

WHITE WYANDOTTE eggs for hatching from farm rauge, $4 per 100; 75c per 15; satisfaction guaranteed. Mrs. J.W. Kiesling, R.2, Cromwell, Ia.

PARTRIDGE WYANDOTTES Bred from state fair winners. Beauty and utility. Eggs $2 per 15. E. R. Herrick, Glenwood, Iowa.

DOGS.

SCOTCH COLLIES
STRONG in the blood of Buckler, a grandson of the great Southport Student. Also Parbold Piccalo by Anfield Model. These great breeding dogs at the prices ordinarily asked for common stock. Address A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

DE BOER & VER PLOEG Breeders of fine Fox Terriers. Write for prices. 510 Addition St., Pella, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

FOR SALE High grade Scotch Collie pups. Bargains if taken soon. Address, **T. A. GOUGH, Bristow, Iowa.**

farm range. From fifty-five White Orpingtons and eighty-five Rhode Island Reds we have gathered 153 dozens of eggs since January 1st."

—"I have a nice flock of farm range Orpingtons," writes Fred Massure, Linden, Iowa, whose advertisement offering eggs for sale appears elsewhere in this department. "They are all vigorous and healthy, headed by cocks and cockerels weighing eight to ten pounds. I ship nothing but strictly fresh, good-shaped eggs and guarantee satisfaction."

—"I am pricing eggs very cheap, considering quality," writes Mrs. Minnie McConaughy, Martelle, Iowa, in furnishing copy for her Barred Plymouth Rock egg advertisement that appears elsewhere in this department. "I have two pullet and three cockerel mated pens and a utility flock from which I can supply eggs. Write for free egg circular."

—In furnishing copy for his egg advertisement appearing elsewhere in this department, J. H. Duncan, Lineville, Iowa, writes: "My Barred Plymouth Rocks are better than ever this year. I am adding new blood at long prices." Prices at which he will furnish eggs are stated in the advertisement appearing elsewhere in this department. Mr. Duncan is also a breeder of Poland China swine.

—Mrs. J. E. Baxter, Walnut Grove, Minn., whose advertisement appears elsewhere in this department, and who is engaged extensively in breeding White Holland turkeys, writes: "I have enjoyed a splendid trade in turkeys. My hens are all sold. Have a few extra choice young toms weighing up to twenty-five pounds each. They are strikingly handsome birds with immense bone and pure white plumage, entirely free from black flecks."

—"Our Barred Plymouth Rock hens and pullets are beauties, surface color clear and snappy, giving that ringy appearance which marks them winners; barring narrow, even and distinct to the skin," writes Mason C. Ogg, Monroe, Iowa, in furnishing copy for his advertisement found elsewhere in this department. "Our range flock has been carefully culled, many of the pullets being good enough for fancy pens, and the males are all good stock. We guarantee eggs to be as described and strongly fertile."

—C. O. Lowrey, Edgar, Neb., remitting for advertising already done, writes: "Our Barred Plymouth Rocks are No. 1. We have raised them for fifteen years. At state and county shows we have always won a liberal share of the best premiums. At the Big Four show, held at Edgar this season, we won first and third on cockerel; first, third and fourth on hen; second and third on cock, and first on pen in a strong class. Inquiries for stock and eggs are coming in every mail." See advertisement elsewhere in this department.

—J. A. Holmes, Steamboat Rock, Ia., breeder of Single Comb Rhode Island Reds, in furnishing copy for advertisement appearing elsewhere in this department, writes: "I have been breeding Reds for several years and have made a careful study of same. My flock now have vigor, color, type and laying qualities that are hard to beat. My flock has had green feed all winter, and I guarantee ten chicks from each sitting or will duplicate the order from same pen at half price. Last year I did not receive a single complaint from any of my customers."

—Lee O. Wolfe, Titonka, Iowa, in furnishing copy for his advertisement appearing elsewhere in this department, writes: "The eggs I advertise in your paper are from Iowa State Show winners at Des Moines in January. I took every premium offered. My English Red Caps are imported birds direct from prize winners. I have only imported birds and will sell eggs during the months of April, May and June. My birds weigh from five to seven and one-half pounds. Young cockerels have combs three inches broad. Birds from this stock will win anywhere."

—Readers of this paper wishing Barred Plymouth Rock eggs from big-boned, prize-winning stock should look up the advertisement of S. V. Latcham, Woodward, Iowa, that appears elsewhere in this issue. Mr. Latcham has been advertising with us a number of years and writes that he has shipped eggs into all parts of the United States giving the greatest satisfaction. He states that his yards of Barred Plymouth Rocks are composed of the most popular strains in America, and are the best he has ever owned. He adds: "I breed for size as well as good barring and great egg-producing qualities. They are the kind that lay. My males weigh up to twelve pounds. My egg customers are not disappointed when chicks are grown. Prices on eggs, $1 per fifteen, thirty for $1.75, $5 per 100. I guarantee a fair hatch and safe delivery. Write me for free catalog."

—M. V. Leeper, Redfield, Iowa, elsewhere in this department is offering Barred Plymouth Rock and Bronze turkey eggs for sale. In furnishing copy he writes: "My pens in Barred Rocks this season are headed by nine and one-half and ten and one-half-pound cockerels, dark or cockerel bred color. One has a two and three-fourths-inch leg bone, the other two and one-half-inch leg bone. Mated to the ten and one-half-pound bird are thirteen yearling hens, averaging nine pounds each, and the nine and one-half-pound cockerel has thirteen pullets. I not only expect these matings to produce heavy-weight birds, but show birds as well. My farm range flock is headed by nine and twelve-pound cockerels. My flock of Bronze turkeys is headed by a forty-pound yearling tom; hens in this flock weigh up to twenty-five pounds and pullets up to eighteen."

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
EXCLUSIVELY
STOCK AND EGGS SHIPPED ON APPROVAL
Score Card by Shellabarger
Accompanies Each Bird.
YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city. **HENRY G. WALKER, IOWA CITY, IA.**

R. C. RHODE ISLAND REDS
THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.
REDS 75 cents per 15 or $4 per 100. Pen No. 1 $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed.
J. B. HEISEL, - Grinnell, Iowa.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

SINGLE COMB REDS
EGGS that will hatch, at right prices, from my prize-winning, skin-deep Reds; the kind that pays; start today with this popular breed. Send for my free mating list. L. G. Johnson, Box H, Steamboat Rock, Ia.

PRIZE-WINNING R. C. R. I. REDS Long, back, big bone, red eyes and low tail. Score 92½ to 95; won 13 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2.50 and $5 per 15. Circular free, Address C. B. Alverson, Moravia, Iowa.

$3.00 for 50 EGGS
FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

SINGLE COMB RHODE ISLAND REDS
GET your eggs for hatching from prize winners. Four grand pens, headed by 2d, 4th cockerels, Dubuque; 1st, 4th ckls., Oelwein. Prices reasonable. Send for mating list. C.E. Hayes, Box A, Lamont, Ia.

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15. $5 per 100. Write **Mrs. W. L. Stoner, - Henry, Illinois.**

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. REDS EGGS for sale from 6 choice pens headed by show winners. When you buy here you get the best. Address **O. A. Kuerr, Beaver Crossing, Neb.**

S. C. REDS Eggs from vigorous stock and great winter layers. Fertility guaranteed. Eggs, $1 per 15; $3 per 50; $5 per 100. Address **Woodlawn Farm, Sterling, Illinois.**

MOUSER'S REDS (Both combs). Send for mating list. Fine cockerels for sale $3.00 to $5.00 each. Address
W. I. Mouser, R. 5, Red Oak, Iowa.

R. C. R. I. RED EGGS Limited number of eggs from 2 fine pens. Write for prices. John Webb, Jr., Spirit Lake, Iowa.

S. C. RHODE ISLAND RED Eggs $1.00 per sitting. Few pullets for sale. Sarah Lowe, Clarksville, Iowa.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address **THE RED FARM, Luverne, Iowa.**

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R.1, Box 3, Wahoo, Neb.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address **MRS. GEO. W. GODLOVE, Riverside, Ia.**

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains, Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

S. C. R. I. RED COCKERELS FOR SALE. Also eggs in season. Address M. E. Edwards, Route 2, Box 18, Walnut, Ia.

FOR sale, R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. **C. F. BATTELS, Indianola, Iowa.**

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. RHODE ISLAND REDS large size, red to the skin, a laying strain. Eggs $2.00 per 15. E. M. Thompson, Independence, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100, Address **George Hunt, Earlville, Iowa**

S. C. R. I. RED EGGS Pen 1 $2 per 15; farm flock $1 per 15; $5 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

S. C. R. I. eggs. Stock all red to skin; big boned, low tail, red eyes; choice of flock of 400; eggs $1.50 per sitting, $8.00 per 100. Mrs. F. B. Dann, Dewitt, Iowa.

S. C. Rhode Island Red EGGS FOR HATCHING. choice sitting, 15 for $1.50. Other eggs 100 $6. Mrs. Geo. Turpen, Jefferson, Iowa.

RHODE ISLAND REDS.

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15, pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also P. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address E. L. DICKERSON, Ragan, Nebraska.

S. C. R. I. REDS EXCLUSIVELY. EGGS from choice breeders at $1 to $5 per 15. Send for mating list. Address **J. A. Holmes, Steamboat Rock, Iowa.**

RoseComb Reds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain, sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R. C. RHODE ISLAND REDS
EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Magnolia, Iowa.

R. C. R. I. REDS Exclusive breed. Eggs from farm raised, high-scoring stock; first pen $2.00, second pen $1.00 per 15. Can fill orders at once. Write me. Mrs. S. J. Marsh, R. 5, Knoxville, Ia.

S. C. R. I. REDS Eggs from pens headed by first-prize cock and second-prize cockerel Nebraska State Fair. Write today. Mrs. A. M. Johnson, Clarks, Nebraska.

S. C. R. I. REDS—Great layers of large brown eggs; 15, 75c., 75, $2.50, Eggs guaranteed fresh. Address Mrs. Henry Quackenbush, Chadwick, Ill.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.50 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

TOP notch S. C. R. I. Reds. Two good matings. Eggs $1.00 and $1.50 per 15. Good range flock $4.00 per 100. W. E. Briggs, R. 2, Woodbine, Iowa

S. C. R. I. R. EGGS $1.00 per 15 and 75 cents per 15. Cockerel dark red, no smut, weight 8 lbs. Scores 92¾. Address W. I. PRICE, Ira, Iowa.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs John Holmgren, Rolfe, Iowa.

For Sale R.C.R.I Red eggs $1 per sitting of 15; $6 per 100. Good farm range. Nettie Amundson, R.1, Box 2, Soldier, Ia.

R. C. R. I. EGGS from choice range flock, $1.00 per 15 or $5 per 100. Can ship from DeSoto. Write for circular. Mrs. T. J. Link, R. 2, Winterset, Iowa.

EGGS Rose Comb Reds, pen 1, cockerels score 93¾, 15, $1.25; 100, $5.50. Pen 2, 15, 75cts; 100, $3.50. Address Miss Maggie Henning, Ira, Iowa.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

FINE THOROUGHBRED POULTRY
48 VARIETIES fine thoroughbred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. America's greatest poultry farm. Send 4 cents for large 19th Annual Poultry Book. Address **R. F. Neubert, Box 807, Mankato, Minn.**

EGGS---BARRED ROCKS. BRONZE TURKEYS---EGGS
BARRED ROCKS, special matings. 15 eggs $2; 30 eggs $3.75; 45 eggs $5. These pens are headed by 9½ and 10½ pound ckls. Eggs from farm range flock $1.50 per 30; $4 per 100. I. R. duck eggs $1.50 per sitting 15; $7.50 per 100. M. V. Leeper, Redfield, Iowa.

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

KEEP YOUR CHICKENS HEALTHY
WITH **GERMIKIL** (the great roup and white diarrhoea remedy). CATALOGUE FREE. **AYE BROS., Box 1, BLAIR, NEBRASKA**

Quality Poultry Yards offer eggs and baby chicks from White and Buff Orpingtons, White and Barred Rocks, S. C. White Leghorns, White Wyandottes, S. C. R. I. Reds. All eggs tested with Magic egg tester. Write for catalog. J. H. Swink & Son, Box O, North English, Iowa.

EGGS FOR HATCHING From scored, thoroughbred Orps., R. I. Reds, Plymouth Rocks, Leghorns, Wyandottes, Andalusians, Pekin Ducks, $1.50 up.
O'DONNELL POULTRY FARM
Box 1022 Valley Junction, Iowa

Rose Comb Rhode Island Red eggs from high-grade stock, $1.00 per setting of 15, pure faun and white Indian Runner duck eggs at $1.25 per setting of 11. Write for quantity prices. **Mrs. R. P. Peterson, Ringsted, Ia.**

EGGS FOR HATCHING
BY 100 or setting. 8 popular varieties chickens. 3 varieties of ducks, geese, turkeys. Write for prices. Seward Co. Poultry Association, Beaver Crossing, Neb.

EGGS FOR HATCHING
From 21 Leading Varieties of Chickens.
AYE BROS., Box 1, Blair, Nebraska.

EGGS, 63c a dozen. You can get premium prices in any market if you'll read "Poultrology" and learn how Yesterlaid Egg Farms produce and market their eggs. 144 pages—70 pictures. Get one now. Edition limited. Yesterlaid Egg Farms, Dept. 4, Pacific, Mo.

EGGS for hatching—White Faced Black Spanish, Silver Spangled Hamburgs, R. C. White Orpingtons, Rhode Island Whites, I. R. Ducks. Address SARAH LOWE, Clarksville, Ia.

WANTED TO BUY—Pure-bred poultry, cockerels and hens, R. I. Reds, Buff Orps., Houdans and many other varieties. Also ducks and geese. Matthew Mertz, 907 W. 15th St., Des Moines, Iowa.

EGGS for hatching; S.S. Hamburgs, R. C. W. Orps., P. Wyandottes, Mottled Anconas Buff Leghorns, I.R. ducks, E.E. Calvert, Shellrock, Ia.

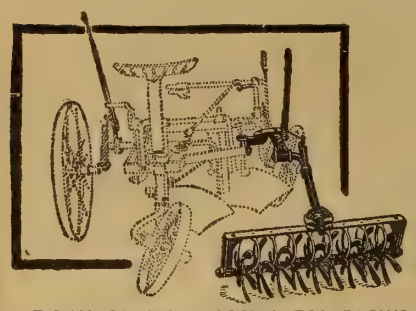
Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

Baby Chicks 3 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A. Chatfield, Ohio

FOR SALE Toulouse goose eggs at 20 cents each. Good marked birds. Address **A. B. Summerville, Monroe, Iowa.**

EGGS for hatching from White Feather Poultry Yards. High-scoring W. Wyan. W. H. turkeys. Book orders early. Mrs. C. F. McLochlin, Gray, Ia.

Thoroughbred poultry eggs. R. C. S. L. Wyn., R.I Reds. Either pen $1.50 per 15. Farm range Wyn 100 $3.50. Rouen duck 11 $1. Jos. Reber, Shelbyville, Ill.



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It will surprise you to know the low price that we are quoting the first ten farmers in each township on our famous Rotary Harrows for plows, to quickly introduce them. We refund the purchase price and pay freight charges if not satisfactory. 75,000 in use and sales doubling each season. Pays for itself on first five acres plowed. Guaranteed to increase yield twenty per cent. The new way of harrowing as you plow proved to the farmers last season that it saves time, labor and money in preparing the seed bed. Write us today for special introductory prices and circulars.

NATIONAL HARROW CO. LEROY, ILLINOIS

INCREASE YOUR CROP 8 to 15 Bushels to Acre

The Brillion Clod Crusher will increase your yield from 8 to 15 bushels per acre. It crushes, pulverizes, rolls, levels and packs the soil. Makes a perfect seed bed which retains all the moisture a few inches below the surface. Free booklet tells all. Write today.

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Dept. 404, Moline, Ill.
Kansas Moline Plow Co.,
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BOVEE FURNACES
AT
MANUFACTURERS' PRICES

THE BOVEE FURNACE HAS DOUBLE THE HEATING CAPACITY of OTHER FURNACES for AMOUNT of FUEL CONSUMED. They are made very heavy, of the best of material.

Measure the fire pots and combustion chamber and then note the long travel of heat through the compound radiator before reaching the chimney. Compare these measurements with those of all other first-class furnaces, and you will see WHY the Bovee Furnaces require so little fuel and last longer.

Send plans for our special winter prices. We save you about one-half on the price of a first-class heating plant.

BOVEE FURNACE WORKS, 200 8th St. Waterloo, Iowa

TELLS WHY CHICKS DIE

J. C. REEFER, the poultry expert of 1630 A Main St., Kansas City, Missouri, is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98% of each hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable FREE books.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

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41% Protein guaranteed. Great milk and Beef Producer. Get our free booklet Science of Feeding.
F. W. Brode & Co. Memphis, Tennessee

"Heaven and Hell" Swedenborg's great work, 400 pages, 15 cts., postpaid. Pastor Landenberger, Windsor Place, St. Louis, Mo.

DRAINAGE You can drain your land without digging a ditch. Write for circular at once
VERTICAL DRAINAGE CO., Clinton, Iowa

INDIAN RUNNER DUCKS.

Mrs. C. G. Wilson, of Page county, Iowa, desires information about duck culture. She writes:

I am thinking of buying a trio of fawn Indian Runner ducks. I have never had any experience raising ducks, but have been told that they are much easier raised than chickens. Please tell me how to care for the eggs during incubation. I think I will use hens instead of my incubator. Would also like to know the particulars about feeding the ducklings. How many eggs will I probably get from the two ducks during a season?

The Indian Runner is to ducks, what the Leghorn is to chickens—veritable little egg machines. The first concern of a prospective duck raiser is to get a start from a reliable breeder, and true to type. There is so much exaggeration in regard to Indian Runners as layers that the novice is apt to be disappointed. It is always thus with any new breed of poultry that is on the boom.

The housing of ducks is a very simple matter. Just a low shed, kept clean and dry and bedded with straw. Dampness causes rheumatism, more especially in the young stock which is about the only disease they ever contract. They are free from parasites and naturally very healthy. As they lay any place where they happen to be, they should be confined a while each morning. A small yard is advisable to confine them until they lay, when they may be turned on the range, though they are a nuisance when running at large in the chicken runs.

Through the laying season, which for Indian Runners rightly cared for, should extend from March to cold weather, they should be fed a mixture consisting of equal parts ground corn and wheat to which should be added one-tenth part beef scraps, this mixture to be dampened just enough so the particles will stick together. Besides this, they should have all the oyster shells they will eat, grit and green feed of some sort. If the mash is dampened with milk less meat will answer. It is very necessary that water in a vessel deep enough for them to dip their beaks above the nostrils is always available. These openings must be kept washed out. It is not necessary that they have water to swim in, though the eggs are more highly fertilized if the breeders have access to water at breeding time. It is the natural environment of ducks.

The first eggs the duck lays should be rejected for incubation. After the first few eggs, they run a very high per cent fertility. We have several times got 100 per cent hatch, something we never have got from chickens. Where large numbers of breeders are kept, artificial incubation is very satisfactory, but where only a few eggs are produced the hen is preferable. Ducks are abominable mothers, though very good sitters.

The eggs hatch in about twenty-eight days, pipping a day or two before escaping from the shell. The first feed for ducklings is made of equal parts of bran, corn meal and shorts to which is added 5 per cent beef scraps. It is moistened and fed, all they will eat, five times a day. From the first some green feed should be cut up fine and mixed with it, gradually increasing in quantity until half the bulk is green food. They should always have plenty of water to drink, but contrary to popular opinion they can stand very little water on the outside. They cannot stand the hot rays of the sun and shade is very essential. The ducklings, if kept dry, rightly fed and well cared for, rarely fail to thrive. After a couple of weeks they chase bugs—and get them too—from morning until night. At ten weeks they are practically grown.

"How many eggs will they lay?" You may be told as many or as few as you wish to hear about, from thirty eggs to 300 a year. A very conservative estimate would be 150 eggs, though whole flocks have produced an average of 200.

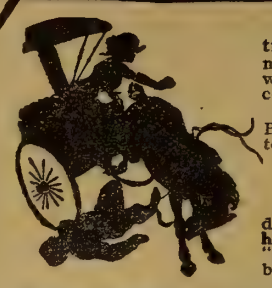
We have a short season of mud before us now that should teach the beauties of a feeding floor to those who have none. After that there is a whole long summer in which to build a "table" for the hogs to eat on.

The present high price of hogs will induce many pork raisers to part with their best brood sows and keep the smaller ones. This will put them in the class with the miser who killed the goose that laid the golden eggs. Those who keep the best and sell the rest are the ones who win out in the hog-raising game.

About the best hired man we ever had was one whose only fault was that he seemed to try to imitate all the sounds of a gasoline wood sawing outfit in his sleep. This fault, however, was no fault at all compared with some hired men who do not seem to need any sleep.

Ask your neighbor to subscribe to The Homestead.

Send the Coupon for Prof. Beery's Grand HORSE-TRAINERS' Prospectus—FREE!



Prof. Jesse Beery won world-wide fame and was tremendously successful giving exhibitions of his marvelous skill in mastering man-killing stallions, training wild horses to drive without bridle or reins. The whole country was thrilled by his daring deeds.

In the grand Free "Horse-Trainers' Prospectus" Prof. Beery now reveals the secret of his power and shows the way to duplicate his dazzling success.

Be a Horse-Trainer!

If you are the owner of a vicious, tricky, kicking, balky, dangerous and unsaleable horse or colt, don't get rid of the **horse**—get rid of its **bad habits.** Write for Prof. Jesse Beery's "Horse-Trainers' Prospectus," a large, handsome, illustrated book written by the King of Horse-Tamers and Trainers.

$1,200.00 to $3,000.00 a Year
Training, Trading, Giving Exhibitions

The wonderful success of Prof. Beery's graduates—**taught by mail** at home during spare time—proves beyond question the value of his instruction. People gladly pay his graduates $15 to $25 a head to have horses tamed, trained, cured of bad habits, and colts broken to harness. Prof. Beery's Correspondence Course in Horse-Training and Colt-Breaking is the only instruction of the kind in the world. Thousands of his graduates are reaping the profits and benefits of his wonderful course. For example, take the case of Emmett White, Kalona, Iowa, now a prosperous professional horse-trainer. Mr. White says: "I wouldn't take $500 for what you have taught me. You may judge of my success when I tell you that I have been able to buy a **home and an automobile** solely through earnings from training horses as taught by your excellent methods."

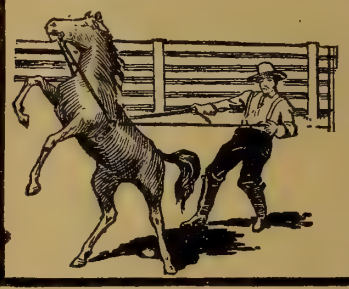
A. L. Dickinson, Friendship, N. Y., writes: "I am working a pair of horses that cleaned out several different men. I got them for $110, gave them a few lessons and have been offered $400 for the pair."

S. M. Ryder, Mercersburg, Pa., writes: "I am making money buying 3-year-old kickers **cheap,** handling them for a few days and selling them, perfectly broken, at a large profit."

Send the FREE Coupon Today!

No matter who you are or where you live, if you love horses and are ambitious to earn more money in a profession you will be proud of, write for the wonderful Free "Horse-Trainers' Prospectus" today, without fail. Tell me all about your horse. (45)

Cut Out, Sign and Mail NOW!



"Horse-Trainers' Prospectus"—FREE!

PROF. JESSE BEERY, Box 54, Pleasant Hill, Ohio
Please send the book free, postpaid.

Name _____

Postoffice _____

R. F. D. _____ *State* _____

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WHY PAY FOR GASOLINE WHEN WIND IS FREE! Get a Big, Heavy, Powerful, Light Running, Double Geared

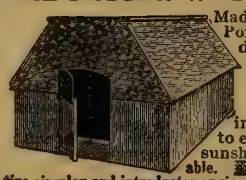
SAMSON WIND MILL

SEND FOR CATALOG

We also build Ideal Feed Mills, Pump Jacks, Hand Grinding Mills for Poultry Raisers, Gasoline Engines, Ensilage Cutters and Brass Candle Sticks

STOVER MANUFACTURING COMPANY
175 Samson Avenue FREEPORT, ILLINOIS

THE BETTER WAY HOG HOUSE



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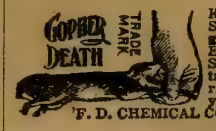

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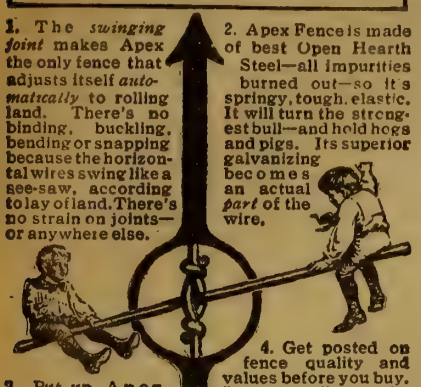

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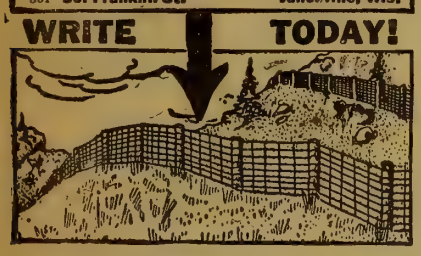


Country Roads of Concrete.

By P. H. Wilson.

NO SINGLE factor plays such an important part in the social and business life of a community as the quality of its roads. Aside from the pleasure and convenience of travel, possible at all times over permanent roads, there is the financial phase which directly concerns the cost not only of farm produce, but of city products as well. Consequently everybody wants good roads. In the matter of paying for permanent highways, a generally satisfactory agreement seems to have been reached in the proposed distribution of the cost between the nation, the state, the county and the users of the road in question. As a result, within a few years this country will take its rightful leading position among the nations of the world in the number of miles of permanent roads.

In a way it is fortunate that the United States has been rather slow in the matter of road making. The roads can now be built of lasting materials, such as will withstand the wear of motor traffic which is fast ruining Europe's century-old roadways. Lasting road materials are everywhere present in the form of sand and gravel from pits and stream beds and crushed rock from stone quarries. Combined with Portland cement into concrete, they form an inexpensive and permanent road surface which successfully resists the usually destructive action of automobiles.

The first consideration in the building of concrete roads is a careful study of local deposits of sand, gravel and rock (called the aggregate) to see whether they are suitable for concrete. Sand must be clean and hard and must grade uniformly in size of grain from one-fourth inch down. The same applies to gravel and crushed rock except that the largest particles commonly allowable are one and one-fourth inches in diameter. If local materials are usable, a considerable saving will be affected, as only cement will need be freighted.

It is much faster and cheaper to mix the concrete with a machine than by hand. Depending on the grading of the aggregate, the concrete is usually proportioned one bag of Portland cement to two cubic feet of sand and four cubic of screened gravel or crushed rock, or one of cement to two of sand and three of gravel or rock. During the grading and draining of the road, the aggregate is hauled and piled at convenient points. The concrete is mixed mushy wet, is deposited to the thickness of six inches upon the firm old road bed and is brought to grade and shape by means of a templet. In order to shed the water on the side drains the surface of the concrete is given a rise or crown in the center of one one-hundredth to one seventy-fifth the width of the roadway. The surface is finished with a wooden float and wire broom, by which means there is afforded perfect footing for horses. At intervals of twenty-five feet the road is divided into sections by narrow contraction joints extending crosswise the road and entirely through the concrete. These joints are formed by means of a thin metal or wooden cross form or divider to which is tied a single or double thickness of tar paper with the paper face against the last laid section of roadway. After the surface of this section is finished and while the concrete for the adjoining section is being placed, the cord holding the paper to the cross form is cut and the cross form is removed. The tar paper adheres to the concrete and stays in the joint, which is reduced to the thickness of the paper by forcing against it the freshly placed concrete of the section under construction.

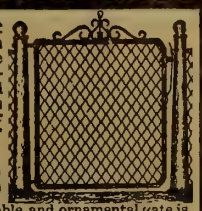
When the surface of the concrete has hardened enough to prevent pitting it is sprinkled with clean water and is kept moist for several days. Likewise, as soon as possible, the pavement is covered temporarily with two inches of sand or dirt from the side road to give further aid in curing the concrete. Traffic is confined to the earthen side roads until the concrete is about two weeks old. In the meantime shoulders of broken stone or gravel are built along both edges of the pavement. These are made three feet wide and sufficiently thick to be firm and to make it an easy matter at all times for wagon wheels to pass from the side road onto the pavement.

There are two phases of the cost of any improvement—first cost and upkeep expense. In both items the concrete road has proven less expensive than any other kind of permanent roadway. Of some 3,000,000 yards of city and country concrete pavements built in recent years, the average first cost has been $1.22 per square yard. The annual upkeep expense per mile on these roads has been almost nothing. In Bellefontaine, Ohio, concrete pavements in use eighteen years have cost annually for maintenance only one-fourth of 1 per cent per square yard. Upkeep cost of Wayne county, Mich., country concrete roads for three years has averaged but $2.50 per mile. In 1911 the mean cost of repairing macadam roads in New York state was $800 per mile—10 per cent of the first cost. If these roads had been concrete, practically all this immense expense could have been saved and used in building new roads instead of repairing old ones. With better roads will come better schools, better churches, happier homes, better business and decreased cost of living.

Rubber boots are the thing to wear when splashing around in mud, but they should be at least one size larger than the shoe usually worn or they will be too cold and damp for early spring.

$1.90 FOR THIS DANDY GATE

These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**



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The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

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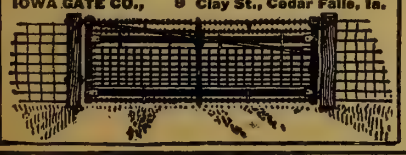

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High-carbon, tubular steel, unbreakable frames. Large, heavily galvanized, rust-proof wire fabric wrapped on the frames—no holes in the frame to weaken—Double rails, device, automatic stock-proof latch; adjustable stretcher bar; and other important exclusive features.

COSTS LESS THAN OTHERS not as good.

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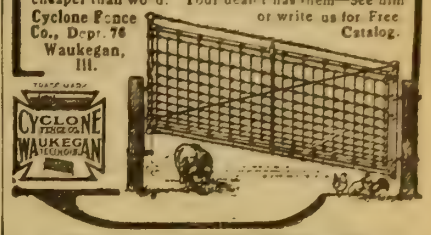
Cyclone Fence Co., Dept. 76 Waukegan, Ill.



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One farmer in each community can get one for helping us introduce Tro Jan Gates to his neighbors. Write for particulars.

The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 2 years' trial at our special direct-to-you factory price of $4.98.

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FROM FACTORY DIRECT TO FARM

26-inch Hog Fence,.....13½c.
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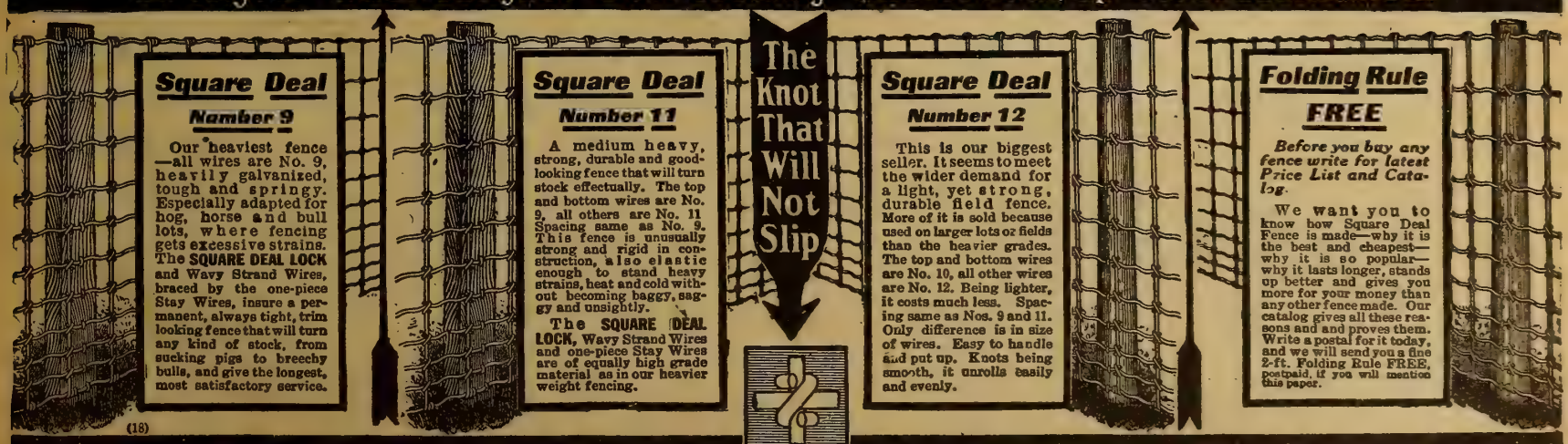


(18)

Keystone Steel & Wire Co., 418 Industrial St., Peoria, Ill.

To the Man Who Earns the Family Bread

It is important for the man of the family to know what it means to him in muscle and energy to eat the right kind of bread.

A pound of strong, glutinous flour, costing less than 4 cents, has more food value than a pound of meat.

The Guaranteed Flour
OCCIDENT

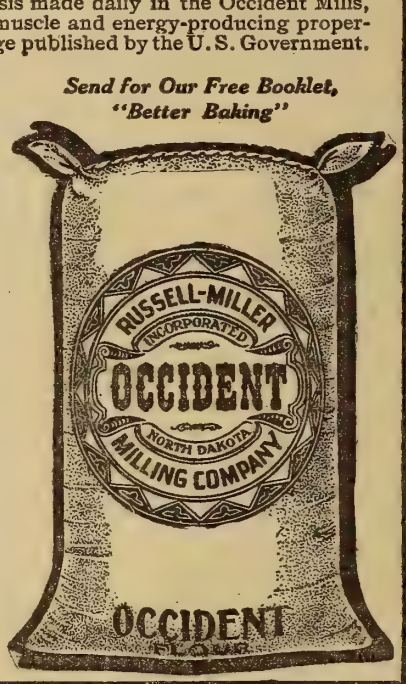
—according to exact chemical analysis made daily in the Occident Mills, contains a far higher percentage of muscle and energy-producing properties than the highest grade flour average published by the U. S. Government.

This extra food value in OCCIDENT Flour is due to two facts:

1st. We select for OCCIDENT Flour only the choicest portion of the richest bread wheats produced.

2nd. All the dirt from the crease of every wheat kernel is removed by special machinery, together with all wheat hair and fibre, so that every ounce of OCCIDENT Flour is clean, pure food.

Send for Our Free Booklet, "Better Baking"



Because of this extra cleanliness and wheat goodness OCCIDENT Bread keeps fresh and moist longer than other bread; has a sweeter, more satisfying taste and is a purer, better balanced, more valuable food.

Costs More —Worth It OCCIDENT costs only a few cents more per sack, and every sack is guaranteed to please the housewife better for all baking than any other flour she has ever used or her money refunded. It will repay you to give OCCIDENT Bread a month's test. Test it on our Money-Back Guarantee.

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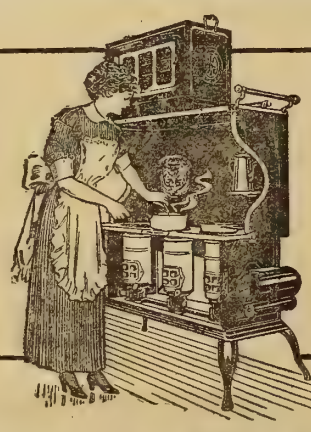
Dandy 72-page Cook Book mailed Free to any address on receipt of five cents in stamps to cover cost of mailing. Send for it today.



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The Comforts of the City Kitchen Brought Home to the Farm

Install a NEW PERFECTION Oil Cook-Stove, Madam, and immediately transform your kitchen into a City Kitchen, with all the convenience and efficiency afforded by gasoline or gas but *with one-third to one-half less expense.* The handy Cabinet Shelf makes it an all-the-year-'round cook-stove.

New Perfection
WICK BLUE FLAME
Oil Cook-stove

is a wonder. Eliminates the dirt, dust and delay of using coal. More heat units than gas or gasoline and minus their odor. Perfectly safe.

Lights on the instant, producing a true blue flame. Boils, broils, bakes, roasts or toasts.

Handy to get at. Easy to operate.

Two minutes to install. No flue nor stove pipe.

Equipped with the new oil reservoir and indicator; and with or without portable oven, cabinet shelf, odorless broiler, special toaster, aluminum pan cake griddle.

Cost—surprisingly small. Ask your dealer for demonstration and prices.

STANDARD OIL COMPANY
(AN INDIANA CORPORATION)
CHICAGO, ILL. (95)

THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

While working to secure such women's rights as the ballot, equality before the law and a fair field in the world of industry it is well to remember that there are other important rights which no one, however conservative, desires to withhold from women. There is the right of every woman to so develop herself that she shall be hungry to do a share of the world's work, ready to bear a share of the world's suffering, eager to give herself in service.

There is the right of the maiden to be pure as the lily, sweet as the rose, modest as the violet, busy as the bee, wise as the serpent and harmless as the dove.

There is the right of the matron to make home as an oasis in the desert, as the shadow of a great rock in a sun-stricken land, as food to the hungry and drink to the thirsty, a place of inspiration and refreshing to which in all the years of life's pilgrimage the heart returns, crying, "There's no place like home!"

There is the right of the daughter to so honor her father and her mother by affectionate helpfulness that they shall bless the day that she was born.

There is the right of the wife to be such a treasure house of sweetness and goodness, serenity and capability, discretion and strength that her husband will recognize in her the woman of whom Solomon said, "Her price is above rubies."

There is the right of the mother to so birth and rear her children that maturity shall find them healthy, educated and self controlled, prepared to make life a blessing to themselves and to the world in which they move.

There is the right of every woman whatever her age or condition to be above pettiness and deceit, to be above scandal and backbiting, to be above vanity and idleness, to be above meanness and self seeking; to be, on the other hand, so fine and so clean, so generous and so kind, so tender and so tolerant, so full of charity and faith and good works that she shall be worthy of tender love and loyal friendship and the "well done" of the Master.

For a woman to avail herself of these rights is to make womanhood a crown of glory more to be desired than the coronet of any queen, however splendid her diadem.

HOME AND HOMEMAKING.

THE INFECTION OF OUR MOODS.

Our state of mind affects other people. If we sing, how often someone else is heard taking up the strain. If we smile, someone else will be smiling, too. Or, if we frown, our friends and all with whom we come in contact catch that frown. When we come to think that it takes no greater effort to smile than to frown, why not smile, to help cheer up this old world of ours? Or sing a little song that someone else may join in the refrain? Learn to laugh. A good laugh is better than medicine. Learn how to tell a story. A well-told story is as welcome as a sunbeam in a sick room. Learn to keep your troubles to yourself. The world is too busy to care for your sorrows. Learn to see the bright side of things. If you cannot see good in the world, keep the bad to yourself. Learn to hide your pains and aches under a pleasant smile. No one cares to hear them. Learn to meet your friends with a smile. The good-humored man or woman is always welcome, but the hypochondriac is not wanted anywhere.

SONG OF THE CHICKADEE.

List to the song of the chickadee,
Perched in the top of the leafless tree;
Keen winds ruffling his breast of down,
Coat of gray with its trimmings brown.
Tilting aloft his black-capped head,
Giving a lift to his wings outspread,
Chickadee chirps: "Chickadee-dee-dee!
Got any crumbs to bestow on me?
Winter and summer I bring you cheer;
There's never a day in all the year
You may not hear me. I'm small, you see,
But I'm bright and active and full of glee."
From limb to limb then he hies away.
Out on the branches you see him sway,
Black cap bobbing about as he
Sings: "Chick, chick, chicka, chickadee, dee!"

WOMAN'S WORK THAT COUNTS.

This is not so much a man's world as it was a century ago—nor as it was yesterday. If there is good to be done, or a message to be delivered, it is driven home through women. If it is a good work or a true message, women perceive it. It is the women who are listening today. This is not rightly a man's world. Great men are but dreams of women become militant. Women are the real inspirers of men; they ignite his every conception. Never yet has man sung, painted, prophesied, nor in any way woven tighter the spirit of his time but that his mother was first great enough to attract the gift; and more often than not, upon his maturity, the potential gift was startled into its supreme expression by another mother's daughter.—Will Levington Comfort in Joe Chapple's News Letter.

SMILES.

My grandson, four years of age, always took his afternoon nap, but one day he became restless and could not go to sleep. I told him to count forty over and over, and that would put him to sleep. He counted forty and forty again and again, but could not get results. Then he said:

"Grandma, how can I do two things at once—count forty and go to sleep?"

Little Elmer—Mama, I saw a man down at the blacksmith's shop making a horse.

Mama—You must be mistaken, Elmer.

Little Elmer—No, I'm not, mama. He had the horse nearly finished when I came by. He was just nailing on the feet.

MARY'S LITTLE COLD.

Mary had a little cold,
She took it in her head,
And everywhere that Mary went,
That cold was sure to spread.
It followed her to school one day—
Against it was no rule—
And Mary soon had given a cold
To every one in school.
The teacher tried to turn it out,
The teacher said, "Ker-choo!"
The teacher couldn't do a thing,
For the teacher caught it too.

FOR THE COOK.

Foam Griddle Cakes.—One-half pint of sour milk, a pinch of salt, yolk of one egg, a piece of butter size of a hickory nut, enough flour to make a batter; beat all together for five minutes, then add one-third of a teaspoonful of soda dissolved in one tablespoonful of boiling water and, lastly, the white of the egg beaten to a stiff froth and stirred in slowly, as if for a sponge cake. Bake immediately on a hot griddle.

Bacon and Apples.—Have the bacon cut very thin, lay it in a hot pan and let it fry in its own fat. Keep it hot on a plate after taking it up, and fry in the fat left in the pan thick slices of cored but unpeeled apples. When cooked tender, serve in the dish with the bacon, apples being laid about the edge of the platter. If the apples are tart, sprinkle a little sugar upon them just before taking from pan.

Sausage and Eggs.—One pound of

KITSELMAN FENCE

We make you the same price we would make the Dealer or Jobber. That is why we can save you money. Look at these very low prices.

14 CENTS A ROD for 26-in. hog fence.
23½c. a rod for 49-in. farm fence.
25½c a rod for 60-in. poultry fence.
$1.55 for 80 rod spool of Ideal Barbed Wire. Large free Catalog showing 100 styles of Farm, Poultry and Lawn Fence.

KITSELMAN BROS. Box 280 Muncie, Ind.

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$1.20 PER GALLON—DELIVERED FREE

Century House Paint made in all colors, in gallon cans, only $1.20 per gallon.
Century Barn Paint, Red, Gray or Green, gallon cans, only 65c per gallon.
Freight Paid on orders of 6 gallons or more to any station east of the Rocky Mountains, except N. & S. Dak., Colo., N. Mex., Tex., Okla., Miss., Ala., La., Ga. and Fla. Delivered Free to these states for 5c more per gallon.
These prices for 4 weeks only—order now. Satisfaction guaranteed.
Reference: So. Ill. Nat'l. Bank.
Catalog and Color Card Free.
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Dept. 187 East St. Louis, Ill.
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FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c a rod for 47 inch high stock fence; 28 1-2c a rod for a 60-in. heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, $1.85. Catalog free.
INTERLOCKING FENCE CO.
BOX 17 MORTON, ILLINOIS

sausage, two tablespoonfuls of fat and three eggs. Use the cold sausage, skinning and cutting them in slices. Put them in the frying pan with the melted fat, fry them on one side, turn them over and when they have had time to fry sufficiently on that side, pour the beaten eggs into the pan over them and cook until the egg "sets." Fold it like an omelette and serve hot.

Oatmeal Gems.—Soak over night a cupful of oatmeal in a cupful of cold water. In the morning sift together one cupful of flour, two teaspoonfuls of baking powder and a very scant teaspoonful of salt. Add this to the soaked oatmeal and mix thoroughly. Wet the mixture with half a cupful of sweet milk, thus making a stiff batter; drop into the buttered gem pans and bake for fifteen minutes in a quick oven.

AMONG OURSELVES.

The strength and the charm, the usefulness and the pleasure-giving powers of this circle depend upon its membership. I have said this before, I say it again today, because today's program so convincingly illustrates the truth of the statement, and withal gives the friends the privilege of looking into the faces of two valued members who are typical of this new country and this new time which produces men and women who as husbands and wives are at once lovers and partners and comrades. Coming Among O rselves as they have done for the past several years Mr. and Mrs. E. W. Christie, of Paola, Kan., have incidentally told us a little about themselves, but there are other things the circle would like to know now that it is meeting the Christies in this more intimate

Drawn Expressly for Montgomery Ward & Co. By George Brehm

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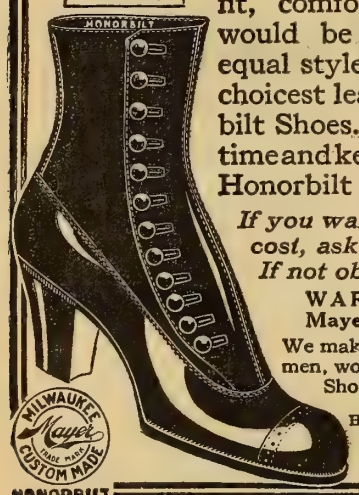

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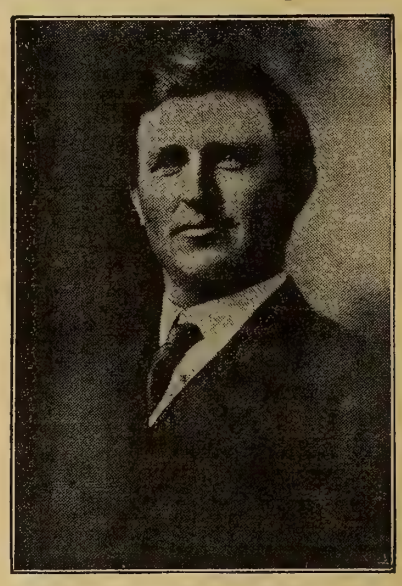
fashion. I have asked no questions, but I have had little private conferences with our friends in which I have learned some facts I shall take the liberty of revealing. With Mr. and Mrs. Christie there is no "mine" nor "thine," it is always "ours;" the farm belongs to both alike and its success is a matter of concern to both alike. When business takes Mr. Christie away from home Mrs. Christie looks after the chores with no thought that it is not her work; and when Mrs. Christie goes away for a little visit to her mother or some friend, Mr. Christie looks after himself without any thought of being neglected. I have never visited the Christie home, but a little bird tells me that it has harmoniously dressed walls and comfortable furnishings, and that in the living room there is a table piled with books and magazines and papers, and that the whole place radiates content and rest and cheer. The same little bird tells me that when Mr. and Mrs. Christie return from town or a spin in their motor car that while he goes to look after the stock she takes a look at the poultry. I do not know what breed the Christie hens are, but I am sure they are good hens; they must be, for they laid twelve dozen eggs per day in February. Dearly as Mr. and Mrs. Christie love each other and their home their interests are not confined there. Not at all. Both are interested in Sunday school work and the improvement of rural schools, both are interested in politics; and



E. W. CHRISTIE.

being capable and progressive their services are in demand in the county. During the recent election both did their part nobly, and when the ballots were counted, together they rejoiced that Kansas had increased the force that makes for righteousness in state and national politics by extending the right of suffrage to its women. There are other things I might tell you about the Christies, among them that she is a convincing speaker at Sunday school gatherings and that he is county chairman of the party which represents his political ideals, but enough has been told to justify our congratulating ourselves that the Christies and we are friends, and nothing more is necessary, especially today when they each bring us a message.

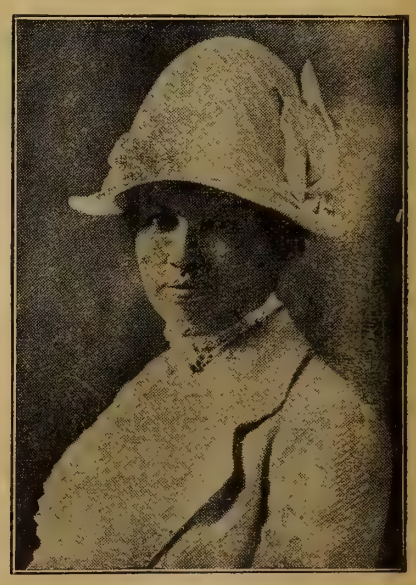
As men appear on our program but seldom I follow our usual precedent and give the man first place. I take pleasure in presenting Mr. Christie who, at my request, will say something about the enfranchisement of the women of Kansas:

The right of suffrage was given to the women of Kansas at the last election, and the activities of the women since that time are of much interest to citizens who are interested in the moral betterment of our state and nation. The women, through their clubs, have taken up the study of civics and will cast their first vote fully as intelligently as the men. They have spoken at the big political meetings in the state and have said to the men in very certain terms that if their party politics means trickery, graft or individual aggrandizement they are not with them, but if it means the betterment of the home, the state and the nation, fidelity to moral and humane causes, and greater honesty in the government of state and nation, then they are with them. The women of Topeka have formed a "good government club" which, working in conjunction with the Federation of Women's Clubs and W. C. T. U., has suggested much good legislation and has worked for laws during the present session of the legislature to make women's property rights the same as the men's, for a white slave law, one of the most stringent in the country; for a minimum wage for working women. They have also taken the names of all legislators who voted against them. The women are interested in moral and humane causes and stand for a fair deal; they have done much work already and it is all to the good, with no indication of any bad, as some who opposed the amendment prophesied before election. The women most interested are the ones who are working to make the boys and girls of the county better farmers and business men and better housekeepers; they want them kept off the streets late at night, and the undesirable moving pictures banished. Here is to woman suffrage, and may it soon spread all over this great country of ours. The large meetings, the march to Washington and the parade are a means of inspiration that give needed courage and enthusiasm to the workers, and attract the attention of men and women who are indifferent. Men should favor this woman suffrage amendment if for no other reason than to get the help that will mean more efficient government.

It is one of the most encouraging signs of the times that men like Mr. Christie—clean, keen, straight-forward, fair-minded fellows—are to be found joining the equal suffrage ranks in increasing numbers. What seems to be most needed now is to convert the good women who conservatively hold aloof. This men like our friend are pretty sure to do.

Nobody has enjoyed her husband's remarks more than Mrs. Victoria Christie, who will now take the floor with the consciousness that whatever she may say Mr. Christie will be sure to tell her afterwards he was proud of her:

How many of you women are entirely satisfied with your surroundings, your children's school privileges and this government of ours? None of you with all three, I dare say. Is your discontent that worse than useless sort that laments copiously, but does nothing? What are you doing to improve matters? Of late years one reads of "efficiency" engineers being called in to straighten out tangles in business administration, and most of the snarls prove to be the result of nothing worse than someone's failing to use his gray matter, running along in the same old rut year after year without stopping to ask himself, "Is there an easier or shorter way to perform this process?" Try this inquiry on your housework and see if you find what I did. Do you use the chopping bowl and knife because you really love to work with them, or because you don't think? A slaw cutter costs twenty-five cents. It will take care of all the vegetable and most of the fruit slicing. Do you chop raisins, suet, etc.? The meat grinder with a suitable blade makes play of that tiresome job. And so on ad infinitum. We bemoan the hard work and long hours housekeeping demands. Very well, but what do we do about it? We can work a revolution if we determine in the future to buy house furnishings that are at once beautiful, comfortable and easy to care for, to keep the word "convenience" to the fore in all interior arrangements, insist that our wardrobes be simple and be-



MRS. VICTORIA CHRISTIE.

coming first, fashionable second, instead of vice versa, and generally turn the "efficiency" searchlight on our occupation. I shall not dwell long on the school question. Educators and taxpayers agree that education must be more practical, the child must be more "efficient" for his work in the world. We are waking up in this respect. It remains to work the idea out in a concrete form that will best meet local conditions. We are waking up politically, too, but a great deal more thought is needed along this line. What is your attitude? Fussing around at home and to a few friends, and then electing the same men again, or others no better? "Patriotism" is a word worn threadbare in political campaigns and on national holidays, but kept in cold storage the rest of the year. The idea it stands for should be every American's steady job, week days and Sundays. It isn't a mat-

ter of casting ballots and bearing arms exclusively, by any means. I am a patriot if I help to make my government more "efficient" no less than if I fight to preserve it. We need more public-spirited men of large experience and great ability who will accept an office paying little or no salary in the same spirit in which they would answer the president's call for volunteers. Many of our governmental troubles come from the lack of training or mental incapacity of officers we have elected. We women who have the suffrage must bear this responsibility equally with our men. Let us do our part with vote and influence in the same spirit in which our foremothers scraped lint, rolled bandages and collected hospital supplies. They were "efficient;" let us do our work as patriotically and well.

That is a fine message Mrs. Christie brings us, and a fine appeal she has made to us as women; I trust we will heed the one and respond to the other. It used to be rather a misfortune to be born a woman. It is no longer so in America where each year sees women approaching nearer to that legal, political and economic equality so greatly desired by those who see in women's freedom a new hope for mankind.

Among Ourselves within a few weeks will look into the face of another of the friends whose coming always means a fine message. To stimulate appetite for the approaching treat Mrs. Soesbe comes to us today with a book talk:

As the commencement season will soon be with us again and many will be seeking appropriate gifts for young friends, I thought perhaps a few more suggestions on books for young people might not come amiss. It would be my advice in seeking gift books to avoid the new books, "best sellers" though they may be There are exceptions, of course, and I would make an exception now in favor of "Mother," by Katherine Norris. Surely every girl will be better for reading this simple little story. Among the books which time has tested are the "Penelope" books, "Rebecca" and "Mother Carey's Chickens," by Kate Douglas Wiggins; Mary E. Wilkins' earlier writings, especially "The New England Nun" and "Other Tales." Collections of short stories by Henry Van T. B. Aldrich and Margaret Del[illegible]e pleasant and profitable reading. I quite agree with Mrs. Lowater in regard to the Patty stories. While "The Awakening of Helena Ritchie" and "The Iron Woman" are much better suited to mature than to youthful minds, I cannot feel that it is quite just to classify them with "The House of Mirth" and "The One Woman." The whole atmosphere and moral tone of Mrs. Deland's stories seem to me to place them far above the other books mentioned. Aside from fiction there is one little book which I wish could be put into the hands of every girl graduating from high school or college. It is entitled, "What is Worth While," by Anna Robertson Brown. This was first read as a paper before the Association of Collegiate Alumnae and can now be secured in a dainty, but inexpensive binding. It is full of helpful thoughts for girls who are just entering the period of life when they must choose not only between good and evil, but between good, better and best. If you do not care to give a book to the sweet girl graduate I am sure she will be pleased with a pretty piece of china or a bit of silverware. Every girl treasures the pretty things that will adorn the home over which she may some day preside. Boys are such a problem when it comes to buying presents that I am going to add a few books suitable for boys, taken from a list by Hamilton W. Mabie: Scott's novels, Dickens' "David Copperfield" and "Nicholas Nickleby," E. E. Hale's "A Man Without a Country," Hughes' "Tom Brown's School Days," E. Thompson Seton's animal stories, Nicolay and Hay's "Life of Lincoln" and Horace E. Scudder's "George Washington."

The book lists Mrs. Soesbe brings us are so good that they should be kept for the many occasions when a book is a suitable gift. It is a commendable custom, one obtaining in many homes nowadays, to give the children a book on each birthday. Some also give a book at Christmas time and on other occasions such as graduation or when special honors are won at school. Where this is done there is rarely heard the complaint that "our children do not seem to care for reading."

We are to have Mrs. Soesbe's picture; we have had Mrs. Lowater's and no one is more welcome in our circle than this friend whose coming has so often enriched us. Today it is a bit of verse she brings us. It's title is "A Week Ago:"

A week ago, with a merry shout,
  Under the window my baby played;
To and fro in the path he ran,
  And once to the snow untrodden strayed.
The prints are there—I see them now—
  They are still untouched in the firm, white snow,
But my baby has gone from my love and care
  To the land where flowers forever grow.
But O to think that the careless touch
  Of the restless little feet should stay,
When he who made them has gone so far—
  The width of the universe away!

Mrs. Lowater's is the master touch—exquisite sentiment and perfect technique—but one need not be a judge of fine poetry to appreciate "A Week Ago."

Before the work of house cleaning commences the careful housewife looks over winter garments and discarded clothing. Anticipating this Miss M. A. T. comes to talk with us about "Homemade Rugs:"

There is no better way to use up old materials that are not good enough for anything else than to fashion them into pretty and durable rugs, many of which are quite easily made and without any expense. Perhaps the easiest way to make a rug is to make the foundation from some stout material, cut it the shape and size you want the rug to be when finished. Cut the pieces for the rug into strips about three inches wide and lay three or four of the strips together and stitch on the foundation through the center and stitch the strips as close together as possible, and as each strip is sewed on, cut into fine fringe and the colors can be arranged to suit one's taste. Similar rugs are made by cutting old rag carpet into strips three inches wide crosswise of the rags. Sew these strips through the center about one-half an inch apart, then ravel out the warp, leaving a heavy fringe that will lie up well and make a thick, heavy rug. Another way is to bend two wires like a hairpin and wind rags in and out, just like making hairpin trimming, and stitch with the sewing machine through the center to fasten it to the foundation. Cut open the loops when the wire is pulled out and these rugs are best made in stripes. Anyone who understands using the crochet hook can make lovely rugs of any shape or size. A really handsome rug was made with a dark red center with a black border and finished with black yarn fringe, and to make this fringe an old white yarn shawl was colored black, then raveled and knotted into the fringe. The same dye of a dark shade of red was used to color the woolen pieces for the center, as this rug was made entirely of woolen pieces. Another rug was made entirely of cotton pieces colored a dark brown with the dyes for cotton and finished with a striped border of red and brown. When these rugs were finished they were tacked to a piece of stout carpet to make them heavier and insure better wear. A number of rugs can be made in this way with very little trouble, time or expense. They give as good service as the high-priced, ready-made rugs, and they are as pretty, too, if they are carefully made and with pretty colors.

Utilizing left overs and scraps of all kinds to produce what are known as "by-products" is making many a business man rich. We housewives should not be behind hand in our special domain so let us profit by these hints on rug making.

Before the winter meat supply gets low, perhaps since Mrs. Lewis is to talk about cooking the cheaper cuts of beef one should say when the meat supply is low, it is good to know how to serve the less attractive portions appetizingly. Let us listen:

I wash the meat in warm water and at once plunge it into boiling water, to boil gently until thoroughly done. I salt when about half done. I cook enough for several meals at one time, using two kettles. Today we will have a roast dinner. About twenty minutes before the meat is done drop into one kettle enough potatoes for your family, peeled and sliced rather thick. When almost done remove kettle from fire and lift the meat into your roaster. Around the meat place the potatoes and a little of the fat from the kettle and place in the oven and roast a golden brown; remove the meat and potatoes and make a nice brown gravy using flour and some of the broth still in the kettle. Tomorrow we will have a boiled dinner. Remove meat from the kettle, place in oven and brown, and when the broth gets hot drop into it your favorite vegetables, combining two or three. There are so many vegetables to choose from one can have a variety from time to time. When your vegetables are done season with salt and pepper to suit. I always make use of every bit of the broth, either for soup or gravy. Drop dumplings, noodles or macaroni in. Sometimes they are all nice cooked in the broth and served as soup.

Sometimes I feel our program could hardly have been better. Consider that of today and ask yourself if our Home Department has not good reason to be proud of its contributors.

It is beginning to be gardening time in some places, but in others it will be some time yet before seed sowing. Meantime will not the friends exchange lists of the best varieties of the ordinarily grown vegetables. Please, if you know of a specially good variety of anything sit down right now and write about it that we may all have the benefit.

The contest articles are in the hands of the awarding committee, returns may be looked for quite soon

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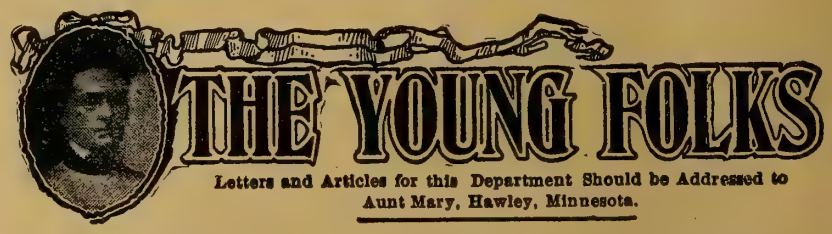
FIRST QUARTER. LESSON XII. MARK XVI., 1-11. March 23, 1913

THE EMPTY TOMB. EASTER LESSON—THE STORY.

Joseph and Nicodemus—noble mourners—follow in that funeral procession unparalleled. The distance is very short to Joseph's new rock-hewn tomb in the garden near to Calvary. In the cool vestibule of the sepulcher the bier is set down. Water is brought from some neighboring pool or fountain. That precious casket of clay so marred, is laved with sacred care. The brow lacerated by the thorny crown, the back corrugated by the merciless scourge, the wounded hands and feet, the pierced side, the blood clots and death sweat, all dissolved and washed away, and the body thoroughly dried, they begin to swathe the limbs and torso with broad linen bands, sprinkling copiously the powdered spices in every fold. Last of all, they cover that serene and holy countenance, imprinting it, no doubt, with a kiss of undying affection. The task being finished, they carry the enswathed body from the antechamber to the grotto, and lay it gently upon its stony berth in the wall. All having come out of the crypt, but one thing remains to be done—the rolling of the great millstone against the door of the sepulcher, and the placing against it in turn of the lesser stone. Through the night of the passover Sabbath that holy form rests on its rocky couch, embalmed in the fragrance of the flowers of the garden, and needing not the unguents which love had provided. On the dawn of the Sabbath the fear, which has by this time grown to an insupportable degree, drives the Sanhedrists to Pilate's hated bar. It was hard for Pilate to concede to them their first request concerning a living man; but to one whom death ended all, the petition concerning one already dead seemed a matter of entire indifference. With a contemptuous toss of the head, he bade them to do what they pleased with a dead body. Thus another link was forged in the chain of evidence. The lives of the Roman guard were the forfeit if they allowed the body to be removed, as was the life of anybody who would break Pilate's seal. The record here is charmingly artless, it is transparently true. The women, not knowing how complete the embalmment had been, at the very earliest hour practicable take additional spices, and run to the sepulcher. They are so precipitated that they forget the heavy stone which would make their entrance to the tomb impossible. Had they forgotten Jesus' oft-made declaration that he would rise from the grave? Certainly not, but evidently they, with all the disciples, gave it a spiritual interpretation. And the apparent desecration and robbery of the tomb was an overwhelming surprise and grief to them. But the open tomb of Jesus was converted into a bureau of information for his troubled disciples. White-liveried attendants were there to point them to the place where the Lord lay, and to the grave clothes folded and laid in such orderly fashion as to preclude the idea of a hasty and clandestine removal, and to announce the blissful truth, "He is risen!"

The Teacher's Lantern.

By the act of that hour, Joseph and Nicodemus burned the bridge behind them. They could never go back to Judaism. Having touched a dead body—at least having been within the prescribed four cubits distance of a tomb—they can have no share in the festivities of Passover week. What cared they? Did they not already know that God had some better things in store for them? On the morning of the third day the seal was broken, the stone rolled away, and the body gone. Friend and foe alike admitted this. Some circumstances transpired, against which even the world-famed descipline of the Roman soldier proved inadequate. The only historically credible account of that circumstance is based upon the testimony of the disciples. The only suffiient explanation of the bewilderment of the guards, the surprise of the disciples, and the consternation of the Sanhedrists, is found in the resurrection of Jesus. New revelations always come while in the way of loving service. Loyal, unforgetting affection, while on its way to do its last rite, made the most glorious discovery of all ages—the empty tomb of the first Easter morning.



Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

MY MOTTO.

Do it well, or not at all.—Diamond Queen, age 10.

If at first you don't succeed, try, try, try again.—Many Cousins.

Who doeth his best, doeth nobly; angels could do no more.—Aunt Mary.

ROLL OF HONOR.

Allery, Arkansas Boy, Artful, Audubon, Badger Boy, Beacon, Bendal, Big Foot, Bluebeard, Buffalo Bill, Bumper, Captain, Corn Plower, Coyote, Daniel, De Simon, Dewey, Drake, Ed, Ego, Einar, Emilzur, Everett, Ferris, Firm, Gil, Glenno, Grant, Harrie, Harris, Hay Pitcher, Holbrook, Hooker, Hunter Bob, Jeff, John Paul, Jose, Junior, Linn, Lone Tree, Lynx, Mark, Mayron, Meadow Lark, Mee, Michel, Middie, Miller, Mittel, Mose, Nebraska Farmer, Nobleman, Overalls, Pierre, Potter, Preston, Rattler Dick, Rider, Rollie, Royson, Shortie, Show-me Boy, Singer, Silver Threads, Sivert, Skeezicks, Sly Fox, Spring Violet, Sunflower George, Tenn, Tolbert, Topnot, Valiant Rider, Verner, White Cloud, Wiggly Will, Willard, Willie, Willow Creek Boy, Zeke.

These boys all won places on the Roll of Honor by sending good endings to the story by Chipmunk about Tom and Will and the wolves.

The following do not earn credit here, although they sent endings to the story. But, girls, this contest was for the boys only, so Clarina Den, Gay, Ina Baker, Laura Jensen, Lazy Joe, Margaret Cash, Mary Kelly, Minnesota Rosebud, Phyllis Hoffmann, Princess and Ruth Saving get no credit for their stories.

Quite a number of the boys wrote on both sides of the paper, and for this their stories, although ever so good, received no credit: Clifford Barnard, Eldon Tool, Fay Haverstick, Hunter, Master Skylark, Orin Koxlien, Paul Vavricka, Walter Upton and William Mathieson.

One list of Roll of Honor young folks was destroyed in the fire we spoke of last week, and as there is no way of telling what names were lost, you must just all try again.

A DREAM OF SUMMER.

I can hear the clock on the mantel
As it ticks the hours away;
And I sit and dream, in the firelight's gleam,
Of a beautiful summer day.

Of a day when the world is happy
And the sun shines warm and bright,
And the birds all sing, and the cowbells ring,
And everything seems just right.

And I dream that, as shades of night gather,
I can hear night birds singing, so pert;
And silvery notes rise from whip-poor-wills' throats,
While the little frogs hold a concert.
—Vernie, Worleytown, age 16.

THE STORY IS FINISHED.

A few weeks ago we published a part of a story and asked the boys to finish it in their best style. Ninety

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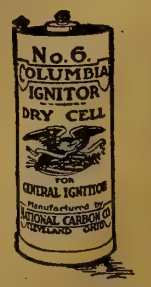

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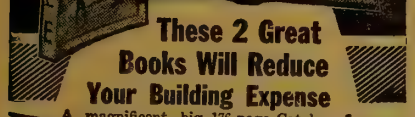

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boys essayed the task, and Aunt Mary is proud to state that nearly all of them did splendidly. We wish we could give all the story ends, but, of course, that is impossible. The prize is awarded to Young Huntsman, age 12, Monona, Iowa. The other boys will find their names on the Roll of Honor or below it. Worthy of special mention is the story written by Silver Threads, who had the boys rescued by Indians who afterwards carried them away captive, requiring another rescue before they finally reached home safe and sound. Most of the writers had hunters or other men come to their aid. Several made use of air holes for conveniently drowning the wolves. Some had dogs come to the rescue. Others set one wolf afire, which frightened them all away. Those which Auntie considered best were those in which Tom's quick presence of mind and courage brought them out unaided from a situation which was black indeed. The story follows:

One December morning Will and Tom buckled on their skates for the ten-mile trip down the river to Melbourne, to take their fall catch of furs.

It was growing dark when they were returning home, and suddenly they were surrounded by a pack of wolves. In an instant they were going fast, leaving most of the wolves away behind.

Some of them soon caught up, and one large wolf leaped upon Tom, bringing him down instantly. Will seeing the fate of his brother, fainted.

Fortunately for Tom he wore a heavy coat and although the wolf had seized him by the shoulder, its fangs did not reach the skin. Lying there under the great gray brute Tom did some rapid thinking.

"Will has the gun and he has fainted. It is useless to shout for help, for there is no one to hear. My knife! If I can only get at it I'll make an impression on this confounded wolf, anyway."

In the veins of the boy the blood of generations of mighty hunters still flowed strongly. Keeping his brain cool and his head steady even in his desperate plight. After some wiggling and twisting, during which the wolf shook him viciously, Tom succeeded in unsheathing his heavy hunting knife, and swinging his arm back as far as he could, he drove the sharp blade deep under the wolf's left shoulder. The great brute reared, fell backward, threshed the ground spasmodically a moment, then went suddenly limp. "Whoop!" shouted Tom, "I stuck him right in the heart!"

The remainder of the pack were full fed, having feasted in a farmer's sheep corral that afternoon and seeing the fall of their leader they veered off and disappeared into the wood.

Will, revived by the cold air, came to his brother's side. "I don't see what made me faint," he said sheepishly. "Guess I'm not much better than a girl."

Tom laughed. "Well, we must get busy and get the hide off. Lucky there's a good moon." The boy worked silently and swiftly, with the ease and dexterity of much practice, and soon the pelt was spread upon the ground. "It's the biggest wolf hide I ever saw," exulted Tom, as he rolled it into a compact bundle. "We ought to get a good price for it."

The boys skated rapidly down the river, and were soon within sight of their home. Their mother, as her habit was when any of her family were late in returning, had placed a bright light in the window.

Tom turned suddenly to his brother. "Say, Will, let's not sell this hide. Let's take it to Melbourne tomorrow and get the bounty, then have it made into a rug for mother. You know her birthday is next week. We'll say nothing about it, and surprise her."

"The hide is yours. Do what you please with it." Will spoke gruffly, still ashamed of his weakness.

"It is yours too, didn't you help skin it? And we can both pay for the tanning and lining."

When the boy's mother arose on the morning of her birthday she found that, early as it was, some one had been up before her and built a cheery wood fire in the living room. And in front of the fireplace was spread a fine rug with a piece of paper pinned to one corner, on which was written in Tom's round, boyish hand: "To mother, from Will and Tom. A happy birthday."

The mother's surprise and delight were very gratifying to Tom, but Will felt uncomfortable until he had told his parents the story of the killing of the wolf, told it manfully and with no attempt to conceal or excuse his own cowardice.

The sweet mother embraced both her boys, and their father, a white-haired trapper, said: "I think you will make a hunter, Tom, for your courage and presence of mind did not desert you in time of danger. And you, Will, have proved yourself a true sportsman, for you had the moral courage to tell the truth, when it would have been much easier to have said nothing."—Young Huntsman.

ANSWERS TO MARCH PUZZLES.

1. Glove, love.
2. Tomatoes, pumpkin, celery, cucumbers, parsnips, cauliflower, potatoes, turnip, spinach, carrots.
3. Wisconsin Farmer, Woman's World, American Woman, Happy Hours, Needlecraft, Daily News, Farm World.
4. Spear, pea; pears, ear; board, oar; spies, pie; nearly, early; shoes, hoe; ghosts, host.
5. Horse, hose; lives, lies; pines, pies; going, gong; regal, real; darling, daring; coast, cost; sieze, size; cheat, chat; noise, nose.

HOW TO GET RID OF THE HOUSE FLY.

The fly is a nuisance besides being a carrier of infectious diseases, and the attempt to exterminate it needs no justification. How one can make one's home, town or city flyless is described by C. F. Hodge, of Clark University, Worcester, Mass. He says that the American public spends 10,000,000 a year for window and door screens in a futile attempt to exclude a lively insect which insists on getting into the house every time the doors are opened. He believes also that the method of swatting the flies, using fly paper or indoor traps or poisons is ineffective, but may help. His method is to make use in various ways of the conical wire-mesh fly trap, which is familiar to almost every one, in such a way as to turn the tables on the flies and "put them in jail and let ourselves out." The plan involves, of course, the abolition as far as possible of all breeding and feeding places for flies and the application of the fly trap mentioned above to the garbage can, to the screens on windows, to the covers on manure bins, etc., all of which can be done by a little mechanical ingenuity. Garbage cans are on the market which have a cover larger than the can and not fitting down closely on it so that the flies gain access to the can under the cover and escape through a hole in the cover over which is fixed a fly trap. In fighting the fly, Hodge has found that the essentials of a successful campaign are to transfer the fight against the fly from the house to outdoors, and then to exterminate it. Another essential feature in a town or city is that households must cooperate. One ignorant or careless home can breed flies enough to vitiate the best endeavors of a whole town. Hodge has succeeded in his neighborhood in practically eliminating flies; he uses no screens in windows and doors, and can sit out doors or have windows or doors open at any time without molestation. As flies begin to breed early in the spring and as they breed with marvelous rapidity, the time to arrange for a fly campaign is in the winter.—[Journal American Medical Association.

Now is the time to scatter about four or five pounds of good clover seed on the rye or wheat field where the stand is sparse and the yield promises to be light. The clover stand thus secured will not injure the other crop in the least, and may be utilized for fall pasturage after the grain crop is removed from the field, turning it under for fertilizer later on.

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PROGRESS AND THE FARMER.

The progress of the farmer is written in the history of our country. He has been in the forefront of those who have responded to their country's call from the time Israel Putnam left his plow and rode to join his command at Concord down to the time when our government enlisted thousands of our farmer lads to fight the first war ever waged in the broad name of humanity, and in behalf of an alien people.

The American farmer has been in the front ranks of those who have helped to win the greater victories of peace, from the time George Washington left the cares of state and turned again to till the fields, down to the present day when the fruits of his labor have made this the richest as well as happiest land upon the footstool of the Almighty.

If progress is the spirit of the hour I need not remind you that the American farmer has always been in the vanguard of progress, for he has paved the way for civilization as he has made venerable forest yield fertile prairie, he has builded log school houses at the outposts of civilization and the boys and girls they have sent forth have become great in the councils of our land.

The primitive battles of the farmer have been fought and won. The rich soil of the corn belt yields its plenteous harvest, the cotton blossoms whiten the plains of the south land—out across the great divide the mountain streams have been diverted and the desert is clothed in verdure, and still the torch of progress beckons the husbandman onward.

The progress of the farmer is now in the direction of getting the full returns due him from Mother Earth, and we know the possibilities in that direction are vast and the limit of production not even approached.

Like every other progressive business man the farmer is turning to the higher branches of his chosen vocation. He is sending his sons to the agricultural college, he is himself taking a postgraduate course whenever the opportunity offers through institutions and short-course meetings to learn from those who have made scientific production a life study. As our colleges and experimental fields and institutes are multiplying, the results are everywhere apparent in newer and better methods and vastly more profitable results are being achieved at less cost. I have seen it stated that land which had been in cultivation for fifty years is producing more and better crops without artificial fertilization on account of tiling and better care.

The foundations of our national wealth, the fertile soil and the treasures hidden in the hills are still capable of vast expansion. That fact is the best evidence of the real prosperity of our country in season and out. Through the intelligently applied industry, and economy of farmer and miner they may be made the basis for vastly increased legitimate commercial activity, and with a scientifically planned banking and currency system which would answer the legitimate requirements of trade and commerce, and would not answer the demands of speculation and stock gambling, there appears to be no good reason why we might not enjoy permanent and increasing prosperity.

I think you realize that time would prevent my going into the astonishing maze of false theories and naturally reluctant misconception of the functions of banking and currency, even were I competent to discuss that question.

Agriculture in the abstract, however, is easier to understand, for the cultivation of the soil is a strictly independent vocation and in this country unhampered by law so far as production is concerned. The farmer is neither a trust nor a combination. He owes his prosperity to his own industry and the laws of supply and demand and is under no obligations to any set of lawmakers. He obtains his returns in the sweat of his brow in competition with the whole world. He asks no favors and he bars no competitors in his business.

The markets of the world reach out and want to know every detail of his affairs. He is being investigated 365 days in the year, and instead of howling about it, the farmer likes it. Now the farmer has the same right to know the true inward value of every industrial, railroad and banking corporation as they have to know about his business, and when we have that mutual understanding and knowledge there will be no more trouble.

I think we can speak of the farmer strictly in the scientific and economic sense, without commercial malice or political guile, and we have to recognize the fact that his prosperity is essential to the prosperity of the country.

We all depend upon the farmer and when he does not prosper the rest of us cannot possibly do so. I think we are beginning to realize more and more, that the farmer, merchant, manufacturer and banker are all interdependent and their interests in the prosperity of the country a common one.

You know we used to hear that the farmer had his prejudices—particularly against the banker, so we bankers commenced to look into that and we exposed the farmer. He hasn't a word to say nowadays against the banker. The poor farmer! He owns 80 per cent of the stock and a large proportion of the deposits of all the banks in Iowa. He is richer than the bankers, manufacturers and merchants all combined, while the product of his fields and feed lots is bringing in a stream of wealth fabulously great. When we talk about $9,000,000,000 crops, railroad statistics, banking totals and manufacturing outputs don't look very large. Such a figure is too big to mean anything in totals, but when we say it amounts to about $100 for every man, woman and child in this country, we commence to appreciate the value of farm products. —J. A. S. Pollard to Group II, Iowa Bankers' Association.

Wm. Galloway, Pres.

BOYS

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Only 16 years ago. The first actual money I ever made was from selling water melons I raised, myself, at 10c apiece. The next money I earned came from answering an advertisement something like this in the Iowa Homestead. This started my business career

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Many Splendid Prizes

For boys who do the best work. I am going to give a lot of cash prizes—every boy has an equal opportunity. It's a fine chance to get started in business for yourself. The work is light—easy—pleasant—profitable. Just begin at home Your own folks need seeds—nearly every home in your neighborhood will help your business grow. **On a Postal, just say:** "I want to know more about your business offer to boys." Write plainly I will then send you—**Free**—our Beautiful Seed Catalog—new, original, different from all others—and my Special Offer of Fine Presents—with full details of the offer. **Wm. Galloway, Pres.**

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Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

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6110 Child's Apron.—This dainty little apron is made to be slipped on over the head and may be fashioned of gingham, percale or chambray. It is a new design in child's aprons and is very simple to make.

The pattern, No. 6110, is cut in sizes 4 to 12 years. Medium size will require 1⅞ yards of 27 or 36-inch material. Price of pattern, ten cents.

6112 Miss's Dress.—This attractive frock is designed for the miss and small woman and the skirt is cut in three gores. The sleeves may be long or short. Cream and black striped serge will make up this garment delightfully.

The pattern, No. 6112, is cut in sizes 14, 16 and 18 years. Medium size will require 4 yards of 36-inch material, ¾ of a yard of 22-inch all-over and ¼ of a yard of 24-inch satin. Price of pattern, ten cents.

6068 Miss's Dress.—The frock given in the number closes at the front and has three-gored skirt made with empire or regulation waist line. The round neck is collarless and is finished with a frill of edging, ruching or plaited mull. The sleeves are short and have cuffs finished with trimming matching the collar.

The pattern, No. 6068, is cut in sizes 14, 16 and 18 years. Medium size will require 5¼ yards of 36-inch material, ⅜ of a yard of lace edging and 1¼ yards of plaiting. Price of pattern, ten cents.

6023 Lady's Skirt.—This skirt is a five-gored model. It closes at the front. The empire or regulation waist line can be used. This skirt can be used to complete a coat costume or it can be worn with separate shirt waists.

The pattern, No. 6023, is cut in sizes 22 to 30 inches waist measure. Medium size requires 2⅞ yards of 44-inch material. Price of pattern, ten cents.

6062 Child's Frock.—This dress may be made with high or low neck and with long or short sleeves. It fastens at the front and collar, cuffs and wide belt are made of contrasting material.

The pattern, No. 6062, is cut in sizes 2 to 8 years. Medium size will require 2½ yards of 36-inch material and ⅝ of a yard of 27-inch contrasting material. Price of pattern, ten cents.

6088 Boy's Blouse Suit.—A clever little blouse suit for the small lad is here presented. The blouse closes at the left side, but there are two rows of buttons giving a unique effect that is quite new. The sleeves are plaited at the bottom and the trousers, which are the regulation bloomers, are finished with leg-bands or elastics.

The pattern, No. 6088, is cut in sizes 4 to 12 years. Age 8 requires 3¼ yards of 36-inch material. Price of pattern, ten cents.

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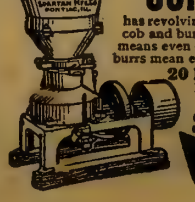

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A PLEA FOR THE BETTER COUNTRY SCHOOL.

To the Editor of The Homestead:

The time has arrived when only a few doubt an education is essential in fighting life's battles successfully. The boy or girl who enters life with a good common-sense education has a thousand chances to make life a success where the uneducated has one. Now and then there is a farmer who says that he made a success without an education and if his child has grit he can do the same. That parent never stops to consider the fact that his child must live in a generation different from the one he has passed through. The demands will be greater and the competition more severe. That child must be more of a specialist than he has been. He has lived when the country was young and inhabitants few, but now his child must make his way in a well-settled country where land is higher and living more expensive. That child must know how to make two dollars out of the ground that produced only one for the father. So if the parent does not want his child to be simply a "hewer of wood and a drawer of water," he should see that the child has a trained intellect.

This naturally means the best possible education, which should be received as far as practical right at home in the public school. I am a firm believer in the idea that a child ought to get a good education in the public school. This opens the opportunity for the poor child as well as for the rich. It may mean more taxes, but the increase of taxes will be light compared with the expense of sending the child away to school. Many farmers object to better schools because they mean higher taxes. Of course such men would rather invest money in hogs and cattle than in the brains of their children. I am living in a school district where the school taxes are equal to all other taxes, but I figure that I am getting good return for the money in the intellectual training of my children. Our school is first class and is really a city school, but I live in the country and get the benefit of it. I feel that in putting this money into the brains of my children I am thus preparing them for life's duties, therefore, it is better than to hoard it up for them that they may have it after I am gone.

Now, in giving children an opportunity for an education a great many things are to be taken into consideration. The average country school in most states is far below what it ought to be. That is in equipment and class of teachers. Many of them do not have a map or reference book of any kind. There may be a Webster's dictionary, out of date and with the back torn away, lying on the teacher's desk, but outside of this there is not a book to which a child could go for reference when looking up a point on history, biography or government. No encyclopedia can be found in the school room, no library of any kind. The parent will sometimes object if the teacher asks for a few extra books for the child. Then a good map of the world should be hung in every school room. This keeps the child informed about the continents and nations of earth. The money spent in such equipments is not thrown away.

Often the school building is an old shack. A man would not use it for a corn crib if he had it on his farm. Doors are falling off their hinges and window lights are out while the plastering is dropping from the walls. The whole building and surroundings are unattractive to the scholars. I believe that a country school building ought to be the most attractive structure in the community. There should be sufficient acreage in the lot to give the children ample playground. This ground should be fitted up with swings, and all other up-to-date gymnastic equipments. The child needs to be developed physically as well as mentally. Then there should be plenty of shade under which the small children may play at noon and recesses. Here piles of sand may be placed for the amusement of the little fellows.

It should be the aim of the school board to hire the very best teacher possible. Right here I would state that a district cannot be too careful in selecting their school board. Often a man is chosen who has no children, is ignorant or mercenary. Such a character will not often be interested in a school. He will hire the cheapest teacher he can get nine times out of ten. But elect good, intelligent, liberal hearted men with growing families on your school board, and you will be most certain to get a good teacher even if the price is above what has been paid in the past. Such a school board will be a credit to any district and will make their school worthy the name of a public institution.

Again, patrons should make it a point to visit their school. It belongs to them, and they should be sufficiently interested in their children's education to visit the school, get acquainted with the teacher and receive suggestions from her or him as to how best to help the child. If teacher and parent work together for the best interest of the child, there will be results of which both may be justly proud. The school should also be visited by the board of directors. They should see that the teacher is doing his duty. By hearing him teach, they will know what kind of a person is over their children. The board that sees a teacher only through the eyes of the pupils is not a competent judge of the qualifications of that teacher. The teacher who is not doing his duty should not be hired again no matter if he is a relative of some neighbor, the son of a director, or will promise to teach for less pay the following year. I am sure it never pays to sacrifice the brains of the children for the benefit of some friend or the saving of a few dollars. A poor teacher may start pupils wrong, cause others to become disinterested, and lose valuable time for many whose years for mental development in the public school are very few.

When the day comes that every country boy and girl can get as good an education right at home as his city friend of the same age, I am certain that from the farms will go stronger men and women who will bless the world by their noble deeds.

W. D. M.

THE BUILDING OF PERMANENT ROADS.

To the Editor of The Homestead:

I was born and reared in Highland county, Ohio. About the close of the civil war the legislature of Ohio passed a law known as the "Free Turnpike Law" which authorized any county to construct free pikes or macadamized roads, placing the power in the hands of the commissioners or supervisors of each county.

The law provided that the landowners along any proposed line of road, included in the limit of two miles, on each side of the road line may present to said board a petition for road improvement signed by a majority of the landowners within said limit. The board would then order a survey of the line, obtaining the grade, excavations and fills and the cost thereof as near as possible for grading. The bridges of certain dimensions were to be built by a county tax. After the cost had been estimated the board was authorized to advertise for bids on construction. The law required the contractor to give bond for the faithful construction of the road according to plans and specifications. The board then issued and sold bonds to an amount sufficient to construct the road and levied the amount on the land within the limits. The taxpayers on this line were granted a stated number of years to pay out, according to their wishes or a reasonable limit. This levy was placed upon record by the county auditor and known as pike No. 1, the pikes being numbered consecutively as they were built.

The four-mile law after a few years was changed to a two-mile limit. During the last few years it has been changed to one mile, the state paying a certain part of construction. During the last forty-five years Highland county, Ohio, has built more than sixty pikes under the different limits and no taxpayer would say "remove them." The first pike built in Highland county cost a fraction more than $5,000 per mile, but they are being built today for less than $3,000 per mile.

I. W. Jarnagin.

Jasper county, Iowa.

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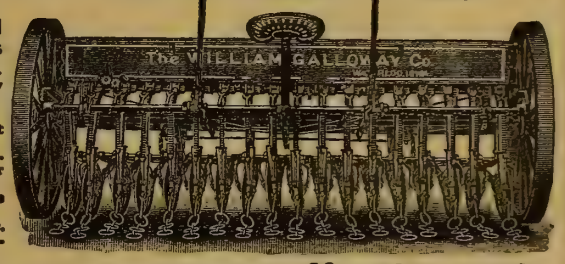

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We have put this Drill to harder tests than it will ever be called on to stand in actual service. For years it has been used on the Galloway Bros.-Bowman big Canadian Farm and on William Galloway's Iowa Farm, doing actual work putting in a real crop. That is the kind of test you can rely on because we crowded on to this drill more hard work in one season than a drill will get in ordinary use in four or five years. We wanted to bust the machine if we could and find if it had any weak points, but we found it so strong and durable that even the hardest work of the Northwest, where a drill must be built extra strong to stand up under the severe strain, will not affect it.

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We absolutely guarantee that these new Galloway drills are made of better material, have more exclusive and desirable features, are stronger and more durable and will stand up and give better service than any other line of disc drills ever made. We are perfectly willing for you to try one on your own place in any kind of soil, doing the hardest work you can put it to for 30 days. If at the end of that time you are not thoroughly satisfied that the machine is all we claim for it and by far the very best disc drill you ever saw, ship it back to us and we will refund every cent of your money and pay all freight charges.

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William Galloway, President (291)

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Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

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NEWS OF THE SALE RING

The Isenbarger Angus Sale.

The sale of Isenbarger Bros. at Battle Creek, Iowa, on March 12th was well attended and they made a splendid sale, their average being $148. The top of the sale was their seven-year-old herd bull, Black King of Homedale, and he was purchased by W. L. Bleakly, Galva, Iowa, at $350. Eleven bulls in the sale made an average of $157.27. C. E. R. Fuester sold seven head of cows in the sale and he made an average of $128.57. The average on everything in the sale was $140.50. Col. Silas Igo cried the sale. Below is a list of all those selling for $100 and over:

BULLS.

Black King of Homedale, calved January, 1906; J. W. L. Bleakley, Galva, Iowa $350.00
Fairland Birtley 3d, calved July, 1911; C. H. Lohse, Schleswig, Iowa 195.00
Fairland Brigand 2d, calved August, 1911; Adolph Kuehle, Charter Oak, Iowa 165.00
Fairland Becker 2d, calved April, 1912; Henry Holt, Sr., Danbury, Iowa 150.00
Fairland Barney 3d, calved April, 1912; G. F. Johnson, Yetter, Ia. 100.00
Fairland Banker 2d, calved June, 1912; Claus Johansen, Charter Oak, Iowa 135.00
Bull calf, calved June, 1912; Howard Easton, Ida Grove, Iowa 100.00
Fairland Earl Eric, calved June, 1912; Franz Reincke, Danbury, Iowa 135.00
Fairland Pilot 7th, calved May, 1912; Swan Johnson, Schaller, Iowa 125.00
Fairland Querfo 3d, calved March, 1911; Henry Bartell, Ida Grove, Iowa 140.00
Fairland King 4th, calved January, 1912; Martin Jessen, Holstein, Iowa 135.00

FEMALES.

Blackbird Lady 5th, calved December, 1906; J. R. Cline, Knoxville, Iowa 150.00
Blackbird Lucile, calved January, 1899; C. H. Foster, Battle Creek, Iowa 142.00
Fairland Blackbird 3d, calved April, 1907; W. M. Dunlap, Jefferson, Iowa 160.00
Blackward's Belle, calved June, 1907; J. R. Cline 122.50
Fairland Birdina, calved January, 1910; Michael Cox, Jefferson, Ia. 100.00
Esther of Quietdale, calved August, 1907; C. M. Russell, Carroll, Iowa 140.00
Kensington of Home Dale 4th, calved October, 1905; J. M. Hathaway, Turin, Iowa 205.00
Sunnyside Pet, calved October, 1907; C. M. Russell 175.00
Alice Rose, calved April, 1906; L. Pfaff, Jefferson, Iowa 197.50
Fairland Pride 2d, calved September, 1905; W. M. Dunlap 135.00
Fairland Pride 4th, calved March, 1910; Will Crawford, Battle Creek, Iowa 110.00
Fairland Pride 5th, calved April, 1910; C. H. Lohse 115.00
Fairland Isabella, calved September, 1907; White Bros., Perry, Iowa 205.00
Fairland Quessie 5th, calved January, 1911; Michael Cox 107.50
Fairland Daisy 3d, calved February, 1905; Gus Macklin, Ida Grove, Iowa 135.00
Hill Spring Duchess, calved March, 1906; Gus Macklin 142.50
Duchess fo H. S. 2d, calved May, 1907; R. W. Franks, Renwick, Iowa 105.00
Fairland Gilt, calved July, 1909; C. H. Lohse 107.50
Ruby of H. S. 4th, calved May, 1908; L. Pfaff 122.50
Ruby of H. S. 5th, calved February, 1911; Michael Cox 110.00
Fairland Queenette, calved September, 1902; C. T. Hutchins, Battle Creek, Iowa 120.00

SUMMARY.

11 bulls ..... $1,730.00; aver $157.27
24 females ..... 3,187.50; aver 132.81
35 head ..... 4,917.50; aver 140.50

The Healy Poland China Sale.

On Saturday, March 8th J. H. Healy, Manilla, Iowa, held his annual sale of Poland Chinas and obtained an average of $50.75 on the entire offering of fifty-six head. From the fact that they were all gilts of last spring farrow it must be considered a very satisfactory sale. The bidding was very brisk from start to finish and the local crowd secured the greater portion of the offering. Col. Harvey Duncan did the selling in his usual satisfactory manner. A list of a few of the tops are as follows:

1. Jacob Kruskher, Sowers, Ill. $72.50
2. W. E. Ruffcoen, Defiance, Ia. 75.00
3. F. M. Hheobold, Manilla, Ia. 60.00
4. W. E. Ruffcoen 60.00
5. J. C. Damitz, Underwood, Ia. 57.50
6. F. M. Theobold 60.00
7. Wm. Saunders, Manilla, Iowa 72.50
8. J. F. Morhauser, Prairie City, Iowa 70.00
9. Wm. Saunders 72.50
10. Wm. Saunders 65.00
15. E. J. Maland, Jewell, Iowa 67.50
16. A. B. Minor, Manilla, Iowa 60.00
17. A. B. Minor 60.00
28. Henry Jochmisen, Manilla, Ia. 50.00
30. J. C. Damitz 52.50
35. W. E. Ruffcoen 52.50
45. Henry Jochmisen 50.00
46. Wm. Saunders 60.00
53. Wm. Saunders 60.00

James Lawler's March Sale.

Prevented from selling his annual offering of bred Poland Chinas on the day first scheduled, February 22d, James Lawler sold at his farm near Clare, Ia., on Wednesday, March 12th. Mr. Lawler has one of the good herds of this section of the state and his offering of bred sows was individually among the top ones of the season. Although his average on fifty-one head was approxiy $46, a good figure for a late sale, it was evident that the lateness of the farrowing date made a serious difference in demand. Mr. Lawler has a trio of herd boars that are a credit to his judgment and are not easy to duplicate in excellence of type in any herd. His sows have size, but with it smoothness and finish, and many of them went through the sale at the bargain prices of the winter. Col. J. A. Benson cried the sale and worked hard for its success. The following is a list of the buyers at $40 and over:

1. Dan Halligan, Clare, Iowa $63
2. F. M. Zenor, Woolstock, Iowa 60
3. Wm. Nall, Britt, Iowa 66
4. John A. Behrens, Ft. Dodge, Iowa 59
5. John A. Behrens 59
6. Harry Frasier, Gilmore City, Ia. 52
7. Chantland Bros., Badger, Iowa 70
8. Steinbrink Bros., Manson, Iowa 59
9. J. M. Hood, Clare, Iowa 49
10. W. W. Cissny, Clare, Iowa 45
11. Harry Frasier 44
14. F. M. Zenor 56
15. Wm. Condon, Clare, Iowa 40
17. W. W. Cissny 40
19. W. W. Cissny 42
20. A. W. Taylor, Gilmore City, Ia. 51
21. J. M. Hood 47
22. Richard Allen, Clare, Iowa 40
23. Geo. R. Dodd, Pioneer, Iowa 49
24. J. M. Hood 43
25. Fred Larsen, Badger, Iowa 57
26. Chantland Bros. 65
43. B. H. Hood, Clare, Iowa 45
29. W. F. Harberson, Sauger, Tex. 50
33. Albert Haynes, Humboldt, Iowa 40
36. B. H. Hood 45
41. Harry Frasier 48
42. G. M. Ullrich, Clare, Iowa 40
44. G. R. Dodd 41
45. G. M. Ullrich 40
46. Walt Franks, Clare, Iowa 50
48. Claude Lent, Manson, Iowa 53
49. J. F. Fitzgerald, Clare, Iowa 53
50. Dan Halligan 45

SUMMARY.

51 head ..... $2,305; aver $45.20

The O'Hern Poland China Sale.

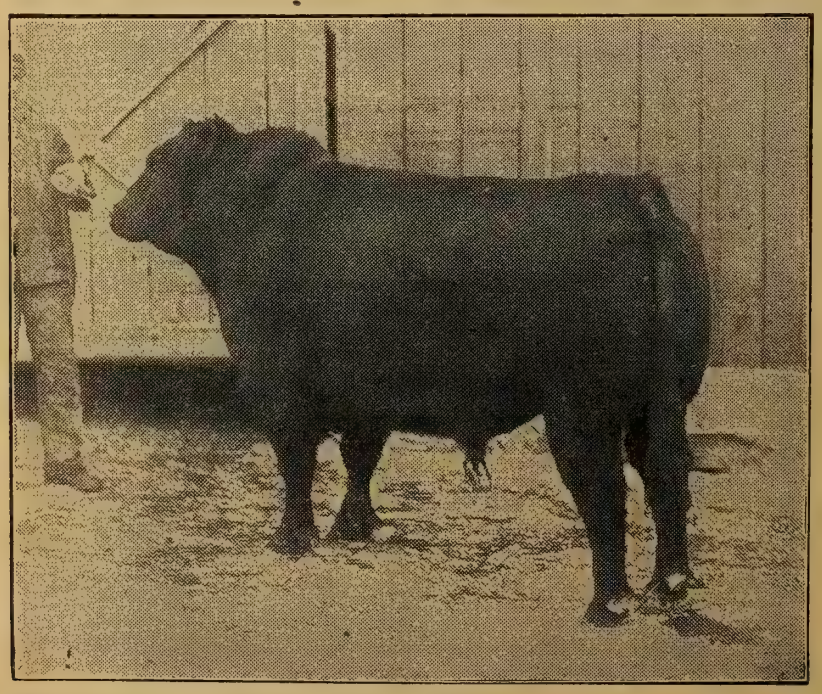
At Cottageville Farm, Barnum, Iowa, on March 11th, a splendid sale of purebred Poland China sows and gilts was held by M. F. O'Hern. The guests were all invited to a good lunch and then were asked to the sale tent, where Col. F. F. Luther made some excellent remarks in reference to the animals offered. The first sale made was No. 3, Tecumseh Lady 3d 430270, a sow out of a litter of seven, tracing to Perfection Look 123143 and Tecumseh Lady 390818. Sam Ness, Roslyn, Iowa, secured her for $43. The top liners of the sale were bought by John Behrens, Ft. Dodge, Iowa, O'Hern's Queen the Great and O'Hern Queen, both tracing to Standard Chief the Great. They had the size and quality and will be a valuable addition to Mr. Behren's herd. There were plenty of other good showings and as a whole the offering was a good one. This is Mr. O'Hern's first sale of the kind and he is to be congratulated. The average on forty head was better than $37. We give below a list of sales over $30:

1. John Behrens, Ft. Dodge, Iowa $62
2. John Behrens 60
3. Sam Ness, Roelyn, Iowa 43
4. Mr. Clarkins, Tara, Iowa 41
5. Sam Ness 42
6. A. H. Wyatt, Summers, Iowa 44
8. M. F. Byrnes, Barnum, Iowa 41
9. W. J. Crilly, Barnum, Iowa 40
10. Frank Halligan, Barnum, Iowa 42
12. W. J. Crilly 40
13. John Owens, Barnum, Iowa 42
14. L. Frank, Barnum, Iowa 41
15. W. J. Crilly 46
16. M. F. Byrnes 40
17. A. H. Wyatt 44
19. Pat Burns 40
20. M. F. Byrnes 39
21. Sam Ness 38
28. M. F. Byrnes 40
32. J. F. Gurnett, Barnum, Iowa 35
38. John R. Tracey, Barnum, Iowa 32

The Larson Duroc Sale.

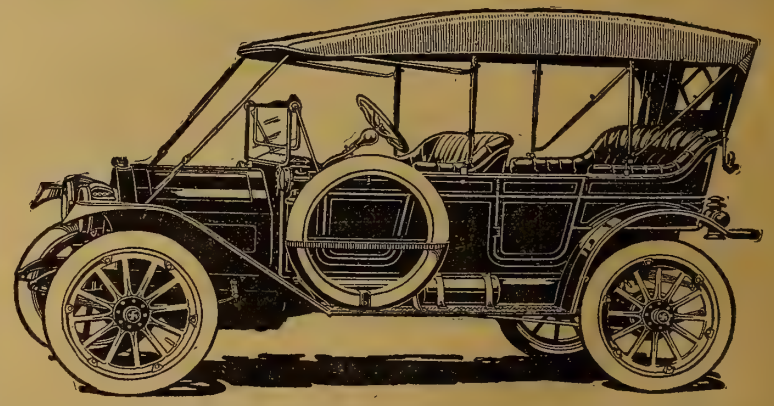
The sale of O. S. Larson at Logan, Iowa, held some time ago, was one of the best of the winter season and the sows bred to King The Col. made an average of $103, and those sired by him made an average of a little over $100. The top of the sale was a King The Col. gilt that went to Harry Browning at $177.50. Colonel Kraschel cried the sale. Below is a list of the entire offering:

2. Emmett Manley, Lyons, Neb. $110
1. Barker Bros. & Crowell, Riverton, Iowa 132
3. S. W. Swanson, Stanton, Iowa. 132
4. P. W. Weberg, Denison, Iowa. 80
24. Harry E. Browning, Hersman, Ill. 177
26. Emmett Manley 92
25. V. L. Gaston, Malvern, Iowa.. 67
10. Joe Seddon, Persia, Iowa 77
6. R. G. McDuff, Monroe, Iowa... 117
14. W. H. Seddon 87
15. V. L. Gaston 120
35. John Garris, Rhodes, Iowa.... 112
16. A. Swanson, St. Edwards, Neb. 100
28. Wm. Kilpatrick, Harlan, Iowa. 115
29. J. B. Ashby, Audubon, Iowa... 90
30. O. E. Osborn, Weston, Iowa... 92
31. John Stoltz, Woodbine, Iowa.. 92
36. Joe Seddon 77
27. V. L. Gaston 155
20. G. H. Willsie, Prosper, Minn.. 70
17. B. W. Hunt, Denison, Iowa... 65
12. Chas. Putnam, Magnolia, Iowa. 55
5. John Tupper, Woodbine, Iowa. 85
34. C. E. Veak, Essex, Iowa..... 77
13. R. M. McKenzie, Silver City, Ia. 61
8. Ira Good, Malvern, Iowa..... 71
32. Joe Seddon 55
22. M. S. Moats & Sons, Missouri Valley, Iowa 70
9. J. F. Lenz, Earlham, Iowa.... 55
39. Chas. Knudson, Industry, Iowa 50
37. Joe Seddon 44
11. J. F. Lentz 62
21. R. M. McKenzie 43
23. Leon Carter, Asherville, Kan.. 57
18. H. H. McMullen, Honey Creek, Iowa 48
7. Fred Swan, Missouri Valley, Ia. 45
19. R. M. McKenzie 40



Sunnyside Prince 2d, the splendid Blackbird bull at the head of White Bros.' Aberdeen Angus herd at Perry, Iowa. See field note of their herd elsewhere in this issue.

K-R-I-T



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38. R. M. McKenzie 39
40. T. A. Case, Logan, Iowa..... 38

Seddon's Duroc Sale.

The sale of Will Seddons, Persia, Ia., was one of the best of the winter season and he disposed of forty-three head at an average of $63.78, the top being No. 2, that went to Fred Swan at $170. The offering was in nice shape and the range of prices was very even. Colonel Kraschel cried the sale. Below we list those selling for $40 and over:

1. Geo. Davis, Milford, Neb.....$100
2. Fred Swan, Missouri Valley, Neb. 170
3. Geo. Gawley, Irwin, Iowa..... 75
4. C. A. Deval, Inwood, Iowa.... 85
6. Samuel Bloomer, Hardwick, Minn. 65
7. R. G. McDuff, Monroe, Iowa... 100
8. A. J. Deuer, Milford, Neb..... 75
9. Wm. Taylor, Ireton, Iowa..... 75
10. S. W. Swanson, Stanton, Iowa. 142
12. Peter Pringle, Shelby, Iowa.... 50
13. E. E. Handley, Carroll, Iowa.. 75
14. Emmet Manley, Lyons, Neb... 75
15. O. R. Stevens, Rippey, Iowa... 60
16. Peter Zolk, Persia, Iowa..... 70
17. Samuel Bloomer 56
18. Peter Pringle 52
20. Peter Pringle 49
21. Peter Pringle 46
23. Chas. Martin, Carroll, Iowa... 60
24. O. S. Larson 61
2. Geo. T. Gawley 125
28. C. W. Taylor, Audubon, Iowa. 48
29. Chas. Albers, Persia, Iowa.... 49
30. Alec McClure, Braddyville, Ia. 53
31. Geo. Davis 55
32. John Gramkow, Persia, Iowa.. 53
37. O. E. Osborn, Weston, Iowa... 105
39. Samuel Bloomer 70
38. Menaugh Bros., Gardner, Ill... 65
42. Geo. Schultz, Yutan, Neb..... 40
45. Will Kilpatrick, Harlan, Iowa. 46
44. Madison Spencer, Audubon, Ia. 85
43. Guth Bros., Manning, Iowa.... 49

Thurer's Poland China Sale.

C. L. Thurer, Fostoria, Iowa, held a very successful sale of Poland China brood sows on March 11th. While the weather conditions were not favorable, an average of $45.50 per head was made on the entire offering. Prices were even from the start, with a top of $75. Below we give a list of the animals sold:

15. Geo. Adams, St. James, Ia...$60.00
33. John Amundson, Milford, Ia. 48.00
34. Barth Fritz, Fostoria, Iowa. 41.00
38. D. H. Borchers, Charles City, Iowa. 40.00
31. D. H. Borchers 41.00
39. D. H. Borchers 42.00
29. Gust Carlson, Royal, Iowa... 41.00
21. Gust Carlso 36.00
18. Gust Carlson 46.00
19. Gust Carlson 40.00
6. J. J. Cairns, Dickens, Iowa.. 42.50
3. J. J. Cairns 46.00
40. W. T. Dubois, Spencer, Iowa 41.00
11. M. W. Fandel, Whittemore, Iowa 62.00
13. G. M. Glazier, St. James, Minn. 67.00
17. Chas. W. Graham, Fostoria, Iowa 37.00
20. Chas. W. Graham 44.00
1. Wm. Grooters, Boydan, Iowa. 50.00
2. R. L. Gribbins, Minburn, Ia.. 42.50
4. Otis Howard, Marathon, Iowa 41.00
16. Otis Howard 36.00
14. Otis Howard 52.00
36. J. Kumba, Fostoria, Iowa... 44.00
25. John Marsh, Terril, Iowa... 37.50
37. John Marsh 37.50
30. John Marsh 35.00
32. F. E. Morgan, Aurelia, Iowa. 40.00
41. Theo. Parsons, Rock Valley, Neb. 40.00
5. L. O. Rustand, Wallingford, Iowa 54.00
42. Adam Riley, Austin, Minn... 37.00
24. Geo. J. Tischer, Fostoria, Ia. 56.00
28. S. Thompson, Dickens, Iowa. 40.00
8. J. R. Williams, Ocheyedan, Iowa 75.00
12. J. R. Williams 70.00
10. J. R. Williams 57.50
23. P. J. Weber, Dickens, Iowa.. 36.00
22. P. J. Weber 36.00
26. P. J. Weber 36.00
25. P. J. Weber 36.00
27. P. J. Weber 38.50

Holst's Chester White Sale.

John Holst, Denison, Iowa, made his annual public sale of Chester White sows on February 27th, and obtained the excellent average of $58 per head on the entire consignment. While this is the highest average of the season made at a sale of this breed, it was the consensus of opinion of those present that the animals were entitled to the recognition given them. Below we give a list of those sold for $60 or over:

1. J. R. Harvey, Denison, Iowa...$77
2. Matt Arnold, Denison, Iowa... 91
3. J. R. Harvey 48
4. J. J. Hawthorne, Lake View, Ia. 67
5. F. W. LaDoux, Spirit Lake, Ia. 81
6. Jacob Greder, Denison, Iowa... 80
7. Matt Arnold 65
8. J. P. Walsh, Elk Point, S. D.... 71
9. C. J Eatinger, Orient, Iowa..... 77
10. H. M. Childress, Deloit, Iowa.. 65
15. Peter D. Bouchard, Jefferson, S. D. 74
16. J. L. Barber, Harlan, Iowa..... 79
17. Matt Arnold 67
19. Matt Arnold 61
20. J. L. Barber 90
24. J. P. Woodruff, Denison, Iowa.. 61
37. Jacob Greber 69

Madison Spencer's Duroc Sale.

On February 24th, Madison Spencer, Audubon, Iowa, made his annual sale of Duroc Jersey brood sows. The average on the entire offering was $38 per head and would undoubtedly have been much higher had not the Rock Island train from Atlantic to Audubon been stalled so that quite a number of breeders could not get to the sale. Colonel Kraschel did the selling and put forth every effort to make the sale a success. Below will be found a list of a few of the tops:

1. Frank Buchner, Gray, Iowa....$45
3. Peter Nelson, Audubon, Iowa.. 40
6. J. Andreason, Audubon, Iowa.. 34
9. Wm. Waukenshaw, Griswold, Ia. 50
15. Peter Nelson 42
16. J. K. Code, Manning, Iowa..... 49
17. W. H. Seddon, Persia, Iowa.... 54
18. J. B. Ashby, Audubon, Iowa... 44
19. Geo. Everett, Audubon, Iowa... 40
21. Lester Johnson, Audubon, Iowa 39
22. J. H. Trummer, Anita, Iowa... 39
23. M. E. Jenkins, Brayton, Iowa.. 38
28. W. W. Scholls, Onawa, Iowa... 38
31. Frank Desmond, Atlantic, Iowa 40
35. Geo. Law, Audubon, Iowa..... 38

Roan's Jack and Jennet Sale.

The sale of jacks and jennets held by J. C. Roan, La Plata, Mo., on March 10th, was a success from every standpoint. Mr. Roan had finished for this sale the first sale pavilion built by any jack breeder for holding his annual sales and it was crowded with the 800 or 900 people in attendance. Iowa, Illinois, Kansas and Missouri buyers took the offering at prices that justified Mr. Roan in going to the trouble and expense of giving them an opportunity of selecting from a number of head. Prices ruled strong on the better class of matured stock, but no high prices were paid and all got good values in stock that was sold under a guarantee to be just as represented. The top on jacks was $1,300, paid by R. E. Webb, Belmond, Iowa, for the two-year-old Clover Leaf Judge, one of the best two year olds Mr. Roan has ever sold. W. A. Newkirk, Kiowa, Kan., secured a bargain in the three-year-old jack, Clover Leaf Jack, at $1,250. Had Mr. Roan had more aged jacks his sale would have gone on record as one of the best held this year, as he had buyers for more of this class of stock than he had listed. Col. P. M. Gross, Macon, Mo., did the selling and much credit is due him for the manner in which he handled the sale. His knowledge of the horse and mule from a market standpoint is not excelled by that of anyone in the business and his timely remarks added many dollars to the total of the sale. Following is a list of sales of all animals selling for over $100. A few jennet colts sold below this figure:

JACKS.

Clover Leaf Judge, two years; R. E. Webb, Belmond, Iowa.....$1,300
Clover Leaf Chief, three years; W. A. Newkirk, Kiowa, Kan..... 1,250
Henry Sullivan, five years; J. M. Proctor, Braymer, Mo..... 775
Bourbon J. C., two years; J. M. Proctor 400
Gabe W., five years; Wayne Davis, New Boston, Mo..... 510
Black Brigham, two years; C. M. Moffatt, Rutledge, Mo..... 110
Prince Monarch, six years; W. L. Wheeler, Quincy, Mo..... 765
Monarch George, three years; O. C. Bandle, Bloomfield, Iowa..... 690
Black King, seven years; C. A. Nelson, Nevada, Iowa..... 900
Black Pete, two years; R. R. Jackson, Worthington, Mo..... 100
Lofty Joe, two years; Gus Pence & Son, King City, Mo..... 900
Joe Davis, two years; B. Romjue, Atlanta, Mo. 420
Kentucky Joe, two years; Wayne Davis 600
Ravenwood 2d, four years; R. W. Jackson, Worthington, Mo..... 120
Bourbon A., two years; C. R. Porter, Novelty, Mo..... 500
Senator LaFollette, eight years; Fay Thompson, Sioux City, Mo. 770
Poor Kruger, eight years; D. R. Pefflnger, Washington, Ill..... 470
Honest John, six years; E. A. Glmple, Mankato, Kan..... 600
Prince Roy, two years; Thos. McCue, Sterling, Ill..... 315
Admiral, seven years; Harrison Epperson, Elmer, Mo..... 340
Yearling jack colt; William Wilkerson, La Plata, Mo..... 250

JENNETS.

Jersey Lilly 2d, nine years, and jack colt; Wm. Shaughnessey, Rothville, Mo. 490
Clover Leaf Jude, eight years; Gus Pence & Son..... 390
Nellie Searchlight, five years; Gus Pence & Son..... 430
Queene Annie, five years; C. F. Morton, Union, Neb..... 135
Juno, five years, and jack colt; J. E. Davis, New Boston, Mo..... 545
Jack colt; Deierling & Otto, Queen City, Mo. 380
Legal W., seven years; J. E. Davis
Black Belle, five years; C. F. Morton 165
Lady Taxpayer, five years; J. E. Davis 130
Fannie G., six years; Tom Davis, New Boston, Mo..... 150
Black Jennet, six years; Gus Pence & Son..... 275
Clover Leaf Sparkle, three years; Amel Gustafason, Ethel, Mo..... 170
Clover Leaf Daisy, five years; Kern Bros., Alexander, Mo..... 155
Clover Leaf Jane, two years; Amel Gustafason 100
Lou, ten years, and jack colt; C. A. Nickerson, Bucklin, Mo..... 205
High Stile Queen, six years, and jennet colt; C. A. Nickerson..... 235
Suffragette, two years; Herman Carr, Brookfield, Mo..... 195
Nancy R., eleven years; James Johnson, Elmer, Mo..... 125
May Bird, seven years; C. F. Morton 105
Early Queen, six years; Rube Wainscott, Jackson, Mo..... 125

SUMMARY.

21 jacks ..... $12,085; aver..... $575.47
24 jennets ..... 5,030; aver..... 209.58
45 head ..... 17,115; aver..... 380.33

Keep all the tanks and water troughs about the farm equipped with plugs that will admit of letting out all surplus water left in them by the stock these snappy nights. It will save you a lot of hard work in useless ice chopping every morning, prevent the stock from chilling their bodies with ice cold water, made so by the ice in the troughs, and the precaution may be the means of saving a good tank or trough from bursting by excessive freezing of the water left in them. Aim to gauge your supply, however, so that little will need to be let out, as it makes a sloppy place around the well, or a glare of ice when the weather is cold.

This Is Every Farmer's Fight

This is a message from the thousands of American farmers who raise sugar beets, the manufacturers who convert the beets into sugar, and the many thousands of workingmen who find profitable employment in the beet sugar industry. It is a message of great importance to *you*—and to every farmer in America.

War is now being waged by the Sugar Trust against the Beet Sugar Industry of America. The Sugar Trust seeks to **completely wipe out** the Beet Sugar Industry in order that they may absolutely control the sugar markets of this country and juggle prices as they see fit. They aim to accomplish their purpose by having the tariff on sugar reduced or removed. By strangling the Beet Sugar Industry, **their only competition,** the Sugar Trust hopes to exact heavy toll from **you** and every other user of sugar.

This is a matter of mighty import to **you**—and every other farmer and landowner in America. It **demands** and **deserves** your careful, sincere consideration **—at once.** If the Sugar Trust succeeds in its efforts the **government will lose millions of dollars** in revenue annually, which will increase direct taxes throughout the United States; it will give the Sugar Trust **absolute control** of the American sugar markets and later place them in position to raise the price of sugar as high as they want to. The Sugar Trust sends millions of American dollars abroad every year for sugar—the beet sugar industry **keeps the money at home,** benefiting thousands of American farmers, coal miners, machinists and workingmen in many different lines. **Reducing the tariff will benefit only the Trust** and the big importers—it **will not** permanently lower the price of sugar—no more than did the removal of the tariff on coffee reduce the price of coffee.

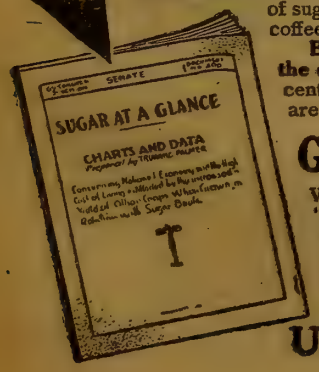
Beet sugar production can be developed to supply the entire demand of this country. It increased 1500 per cent since the present tariff was enacted in 1897. There are now seventy-two beet sugar factories in the United States, located in 16 states, extending from Ohio to California, and owned by 39 independent concerns. Maintaining the present tariff will protect this growing industry and benefit thousands of farmers who supply the factories with sugar beets.

The price of sugar has steadily decreased since the advent of beet sugar. Further development will reduce the cost of manufacture and further reduce the price of sugar to the consumer. It will retain in this country and give to farmers immense sums of money that are now sent abroad for the purchase of foreign sugar.

The Beet Sugar Industry **needs** the existing Tariff Protection because it is only partly developed—and because farm and factory wages in all other sugar producing countries are less than one-half of the wages for the same work in this country.

By prompt action, in filling out and mailing coupon below, you can do a good turn for thousands of farmers, manufacturers and workingmen—and incidentally help to keep the price of sugar **down.** By **delay,** or **neglect** of this important matter, you will help the Sugar Trust **crush** a great American industry, **exact heavy toll** on every pound of sugar sold to the American people, wipe out a large portion of the Government's revenue and increase **your direct taxes.**

We cannot believe you have any intention of helping the Sugar Trust, or increasing **your own taxes,** therefore you should sign and mail the coupon **at once.**



Get this Free Book Which Gives You All the Facts

We want to send you, FREE, a copy of U. S. Senate Document No 890, entitled "Sugar at a Glance," which gives you all the facts about the sugar industry; it also tells how you can increase the fertility of your land by growing sugar beets. Send for the book **now**—you can then judge the case clearly and help build up the beet sugar industry of the United States by following the plan outlined to you. Fill out and mail the coupon **at once** before it gets lost.

UNITED STATES BEET SUGAR INDUSTRY

TRUMAN G. PALMER,
Sec'y, United States Beet Sugar Industry,
Washington, D. C.

Please send me the free book—"Sugar at a Glance"—which tells all about the beet sugar industry and explains how I can increase the fertility of my land by growing sugar beets.

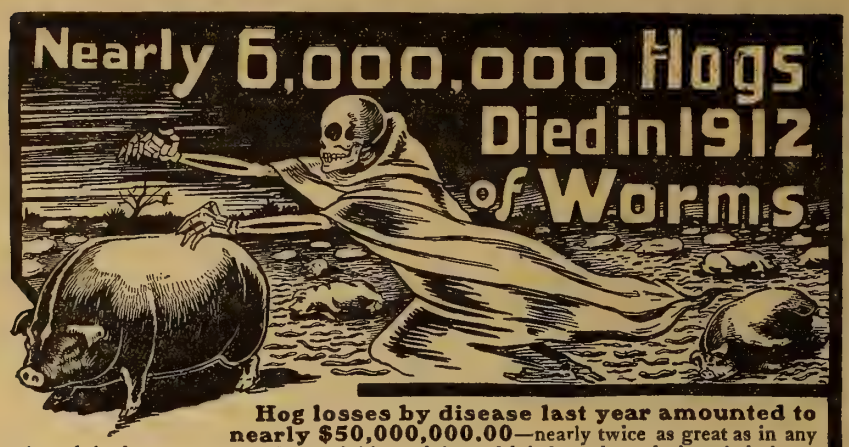
The name of the Member of Congress from our District is

Hon. _____

My Name is _____

Street, P.O. Box or R.F.D. _____ Town _____

County _____ State _____



Hog losses by disease last year amounted to nearly $50,000,000.00—nearly twice as great as in any other of the last ten years. Your neighbors right and left have been losing their hogs. If yours are ailing today, look out for tomorrow. Death is in the air and it will rob you of your best profit maker.

The trouble is not Hog Cholera, but worms. No hog dies of disease that hasn't got worms. **WORMS really kill 90% of all hogs that die. COLUMBIAN STOCK POWDER** positively expels and destroys worms and **prevents** hog losses. If your hogs are sick it will **save** them. If they are well it will **keep** them thrifty and safe. Costs you **only a few cents per head a month to feed.**

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Columbian is the **original** stock powder—**the only sure remedy**; used and endorsed by thousands of leading stock raisers.

NOT A FOOD, but a medicated preparation, scientifically compounded to expel worms and **Keep hogs healthy.** Restores their digestive powers; makes them grow faster and fatten on 25% **less feed.** Stops thumps, scours, coughing, fever, indigestion, and prevents all disease.

MUST BE FED TO BROOD SOWS, for best results with pigs. Keeps the sows healthy and vigorous, free of fever, makes the milk flow purer and more abundant, insures strong, thrifty litters and **prevents runts.**

A BIG SPECIAL FREE OFFER, never made before—you can't afford to miss it—means dollars to you if taken advantage of at once. Try **Columbian Stock Powder** 90 days before you pay. Write at once stating how many hogs you have.

Columbian Hog & Cattle Powder Co.,
1450 Genesee St., KANSAS CITY, MO.

COLUMBIAN AUTOMATIC FEEDER FOR HOGS

Wool Growers, Beware of the Tariff "Bugaboo"

Don't let this *tariff talk* scare you. Even though the tariff is being revised, you will get a good price for your clip, *provided you sell at the right time.*

To take care of our customers during this season of surprisingly quick-changing prices, we are going to send FREE Special Market Reports *frequently*, from now till September. These Special Reports will be authentic and reliable, being based on our 47 years experience, during which time we have become one of the biggest wool merchants in the world.

By watching our Reports closely, our customers can pick the best time to sell. Last year our customers made an average of 2c to 3c per pound more for their wool by following our advice. *This* year they will profit *even more*, as a result of our Special Reports.

Now, if you have as much as 200 pounds of wool, you can have your name put on our mailing list. You'll get our Special Reports, free, *all through the season.* You won't make the mistake of selling at the *wrong* time, or of selling to some buyer who, on account of the tariff agitation, is afraid to pay you the market price, or will scare you into taking less than the market value.

Remember, we charge nothing for this service. We place you under no obligation whatever. We must print about 50,000 Reports anyhow for our old customers. It's no particular trouble to print a few hundred extra for other wool growers.

Merely send us your name on a postal. Then, every time we get out a Special Market Report you will be remembered. You certainly can't *lose* anything by watching our Reports, and they may be the means of saving you a lot of money—*good, hard coin that rightfully belongs to you.*

This is no season to be selling wool to any old buyer at any old time. GET POSTED. If you send your name on a postal *now*, you'll get some interesting Wool News by return mail. (12)

S. SILBERMAN & SONS, Desk 27, 1117 W. 35th Street, CHICAGO, ILL.

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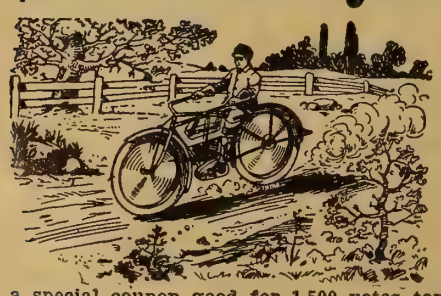

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

Echoes From a Kansas Farm

BY HENRY HATCH

What happens with those who believe in signs when Good Friday falls in the wrong time of the moon for planting potatoes?

The c. o. d. feature of parcel post which goes into effect the first of July will prove handy when we wish to order repairs for machinery direct from makers, but do not know the amount of money to send. We can order the repair and pay the mail carrier when it comes.

Encouraged by the good oat crop of last year, the acreage will be increased in this locality this year. It may also mean the increase of the chinch bug population.

It will soon be time to burn grass and trash to kill chinch bugs. However, wait until warm weather thaws them out and brings them to the surface, or the fire will sweep over them with little injury. Burning in February and early March, as some "city" authorities advise, is the best way not to kill the bug, except not burning at all.

Township assessors are making their rounds. Most of these men are farmers, and they have been putting in full time lately, since the surplus of moisture prevents farm work. They find muddy roads, but it isn't far between stops, and at some places it takes a long time to bring to light all taxable property.

They are getting after the steel bridge trust in this state. A bill has been passed making it compulsory for county commissioners to state the "style" of bridge wanted at the time bids are called for. In the past the different bridge companies put out what they term "their style," and since it is generally known that they have the territory divided and do not really compete, except in mockery, they get around actual competition by the quotation of prices on "their style." The law passed will compel the commissioners to state the "style" wanted, and all companies will have to bid on the one "style."

There is no question but what there is a great graft in the steel bridge business. A little of it has already been uncovered, but it is likely that much of it never will be brought to light. Facts enough have already been brought out to convince the people that there is a "bridge trust" and that the price is fixed by them, regardless of the sham competition they put on when commissioners call for bids. We have got to cut out all graft in the purchase of bridges and road-making machinery, where there is such graft, if we would get full returns from our road tax.

One of our neighbors was a member of the township board in his township, a few years ago. He tells us he got letters from the makers of a certain road grader, offering him a choice of a number of "premiums" if he would see that his board purchased their make of road grader. As one of the "premiums" was a full set of carpenter tools, valued at no less than $35, it will be seen how even township boards are tempted by graft. Of course, where "premiums" are accepted, the price comes out of the tax payers.

As the saying is, this is more like weather. The past two days have been springlike, and, coaxed out by a bright sun and a gentle southern breeze, a little of the surplus moisture is leaving us. Another day of it will put the roads in shape for dragging, and if the township boards wish to get the most out of their road money, they will see that a great deal of dragging is done. Every grade that has been traveled to amount to anything—and the annual moving time has made use of almost every mile of road there is—has been badly cut up, and as the roughness dries the drag will push as much dirt into the center of the grade as is usually put there by one cut of the grader, and at a great deal less expense.

The more conservative are asking this question—when will the advance in the price of live stock come to an end? The more pessimistic are predicting a "grand slump" when the advance does end. It really is troubling some of the pessimists that a new administration has come into power without a slump in prices. Some act as if they feel bad because a panic hasn't taken place.

Once upon a time a neighbor of ours was told by a doctor that he could not live longer than a year. That was years ago, and the neighbor is still alive and hearty, but for a long time afterwards, so the neighbor says, that doctor acted as if he was mad because his patient didn't die, as he told him he would. Likewise, there are men who appear mad that the change in administration didn't bring on a panic, as they predicted it would.

There is even some science in using tin cans as flower pots. W. R. Lanxon, of the North Dakota Agricultural college, tells the housewives to punch the bottom of the can full of holes with a spike, then put in an inch layer of coarse gravel, pieces of coal or broken crockery, fill with one-third leaf mold and two-thirds soil. Well-rotted manure may be used in place of the leaf mold. Plants like geraniums, begonias, fuchsias, dwarf roses and flowering maples are very satisfactory.

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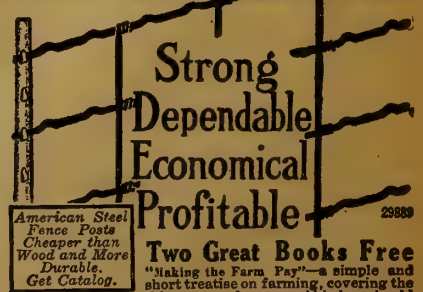

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THE LAWN.

To the Editor of The Homestead:

In the surroundings of a house the one important thing to consider is the lawn. Whether it is a small front yard or an extensive park the foundation, the setting of all other ornamentation, is the grass. Let this be good, it is of itself an object of beauty, but let it be poor and no expense in trees, plants, etc., will compensate for the lack of it.

In small places such as yards it is often more satisfactory to lay turf. If this be done or seed is sown complete success requires the soil to be thoroughly prepared. The work is done for years and must be well done. No crop requires better drainage, more abundant manuring, more thorough working of the soil and careful sowing than the lawn. After the surface is properly graded the soil should be as thoroughly prepared as for a garden and then sown. We prefer blue grass with white clover for a covering for the lawn. Three bushels of grass seed with a quart of white clover seed to the acre is sufficient.

We have no specific directions as to the setting of the ornamental trees, each place must be treated according to its own requirements. We prefer a fair proportion of evergreen and deciduous trees, but remember that small trees, will soon become large. Do not plant just the same kinds and in the same manner as your neighbor. We think the ordinary maple cannot be surpassed for lawn purposes although the horse chestnut or even the oak leaved mountain ash are excellent trees. Weeping trees may be used with fine effect. The weeping birch or weeping willow together with the weeping poplar are among the best for trees of low growth. Evergreens may be made useful as well as ornamental by planting where they will break the cold winds. Among all the choice collections we have found nothing finer than a well-grown hemlock. It can never be called "common." If a screen is the main object we would select the Norway spruce and arbor vitae with the hemlock on account of the rapid growth, while merely for ornamental purposes the dwarf arbor vitaes and dwarf pines make charming lawn plants.

Deciduous shrubs are indispensable and one who notices native plants will have no difficulty in making a highly ornamental collection from those which grow wild in our woods. However, many prefer to buy these and there are many choice kinds to select from, among which are the lilac, the snowball and flowering quince, mock orange and a variety of others which make the lawn beautiful, while among the evergreens already suggested we must not forget the laurel which is one of the best. The grouping of shrubs to produce a pleasing effect should be borne in mind. They should never be trimmed into formal shapes, but the natural habit of each one consulted when cutting is necessary.

Fine specimen plants may stand alone upon the lawn or groups of the same kind or of different kinds so placed. In setting trees and shrubs the matter of planting out should be observed. Trees and even shrubs may be so placed as to cut off from view objects on one's own place or that of a neighbor which it is desirable to hide. The soil should receive the same careful preparation as in the case of those trees which bear fruit. All evergreens, except those used for screens, should have ample room to develop. An evergreen with branches to the very ground is far more beautiful than one which has been trimmed up.

Mrs. S. E. McCoy.

Illinois.

POINTS ON POTATO GROWING.

Potatoes are grown to eat. Most growers have never thought of this fact. They have raised potatoes to sell and have considered only the market price and the yield they could get. They have not realized that the more delicious the cooked potato tasted and smelled and the less waste there was in preparing it for the table, the higher would be the price.

A potato should be white, mealy and dry when cooked. The flavor should be delicious, the odor so appetizing, when such potatoes are served, every one should want a second helping and like to have potatoes often.

More than half the potatoes grown in the central West are soggy when cooked, the odor and flavor are indifferent and often there are yellowish or brownish streaks through them. Few people want a second helping and there are too many meals when potatoes are not served because nobody cares much for them.

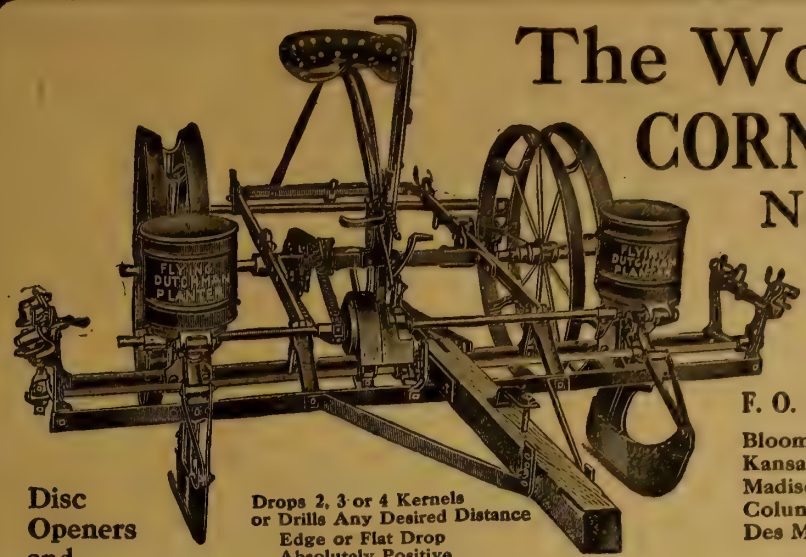
The potato grower more than any other grower of farm food products has overlooked the preferences and tastes of his customers. The consumption of potatoes can be largely stimulated by raising those that are delicious in flavor and aroma, appetizing in appearance and that waste little in preparing for the table.

The yield of potatoes on many farms is too low to be profitable except when prices are high. The low yield is chiefly caused by planting seed from low-producing hills.

A potato does not produce a crop like itself, it produces a crop like the hill from which it came. With the ordinary method of selection, seed potatoes from the poorest hill and a part of the potatoes from the moderate producing hills are used. Not a potato from the highest yielding hills is planted. Intelligent selection of seed from high-yielding hills will double the yield on more than half the farms.

H. M. Cotterell.

"The steer that gets crosswise in the loading chute," H. F. McDougal, the Maryville (Mo.) Tribune's philosopher, points out, "may attract the most attention, but it doesn't make any better beef than the rest of the herd."



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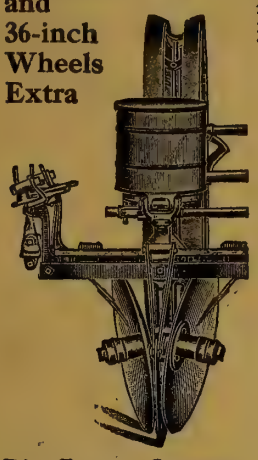
Des Moines, Iowa — Sioux Falls, S. Dak.
St. Louis, Mo.

Disc Openers and 36-inch Wheels Extra



Disc Furrow Openers can be had if desired at a small additional cost.

Drops 2, 3 or 4 Kernels or Drills Any Desired Distance
Edge or Flat Drop
Absolutely Positive
Perfectly Accurate
2 Full Sets of Plates

No matter how much you pay for a Corn Planter, you can't get as good a Planter as the Flying Dutchman, which now sells for $35.00 Cash. For accuracy of drop, durability and general satisfactory work you can't equal it at any price.

The reason why we can make this extremely low price is that we figured that could we double the output of our Planter department, we could materially reduce the manufacturing cost. This we have accomplished and have kept this department running continuously since corn was planted last year, while most other factories were shut down. We are now giving YOU the benefit of our saving in the cost of manufacture.

"The Planter Without A Fault."

The Flying Dutchman Planter is known by the army of farmers who are using it as "The Planter Without a Fault." It actually gives faultless service, year after year under any conditions.

It drops 2, 3 or 4 kernels in a hill with positive and unvarying accuracy and can be instantly changed from one to another while the planter is in motion, thus planting the proper number to meet varying soil conditions—insuring a big crop.

No matter how slow or how fast you drive, the seed is always dropped in perfect check and never scattered.

It is very simple in construction—a small boy can easily understand it—not a thing to get out of order or cause delays—always accurate and ready for use.

It is so well made that it will last longer and give better service year after year than any other planter.

Edge drop or flat drop—whichever you prefer—can be changed instantly by simply changing the plates or can be instantly changed to a Drill without the driver leaving his seat.

If you pay more than $35.00 and freight for a Corn Planter you are simply throwing money away because you can't equal the Faultless Flying Dutchman at any price.

Write today for our FREE BOOKLET showing Planter in colors.
Your Flying Dutchman Dealer sells this Planter. Ask to see it.

MOLINE PLOW COMPANY
DEPT. 11
MOLINE, ILLINOIS

"Farmers' Pride"

A General Purpose Saddle That Fills Every Need. Special Price for March and April **$9.67**

Seldom is an opportunity offered to buy a good saddle at a low price, and never has so fine a saddle as our "Farmers' Pride" been offered at anywhere near the price we are quoting. Just another example of Sears, Roebuck and Co.'s policy of distributing dependable merchandise at prices based on production cost plus **one** profit.

This is the way we make it:

TREE—13½-inch, Morgan style, steel fork and horn; sheepskin covered bars, making the saddle easy on the horse's back.
SKIRTS—21 inches long.
RIGGING—Double cinch rigged, with 1-inch tie straps to tie; 4-inch soft hair cinches.
SEAT—Half leather covered, roll cantle.
STIRRUP STRAPS—1⅛ inches wide, full length, to buckle, fenders, 6½ inches wide, 13½ inches long, attached; 3-inch Texas bolt stirrups.
Weight of saddle, about 13 pounds; packed for shipment, about 20 pounds.

No. 10W3513021/4 Price.....**$9.67**

Send us an order for either or both of these items and we will ship promptly. Your money back if you are not pleased. Take advantage of these low prices now, as hides are scarce and leather is steadily advancing in price. This is an opportunity that will not be presented again. Our complete line of exceptional values in harness, saddlery and accessories is shown in our beautifully illustrated 80-page Special Harness Catalog. Write "Harness" on a postal card, sign your name and address and we will mail you this catalog postpaid. Act now and send us an order and save money.

Our "Mansfield" Farm Harness is still another money saving bargain in a strong, serviceable double farm harness worth almost twice the price we ask for it. Following are the specifications:

BRIDLES—⅞-inch short cheeks, round side reins, sensible blinds, nickel spots.
LINES—1⅛ inches wide, 18 feet long.
HAMES—Wood, iron bound, square staple; Moeller hame tugs, jointed Concord clip attachments; 1½-inch breast straps and martingales, with collar straps.
TRACES—1¾ inches wide, Moeller clip cockeyes.
TRIMMINGS—XC buckles.
Weight, packed for shipment, about 80 pounds.
No. 10W35567¼ Price, without collars..... **$32.79**

PADS—Flat harness leather, felt lined; drop hooks and terrets; nickel spots; folded bellybands; 1⅞-inch hip and back straps; scalloped safes, cruppers buckled on; Cooper's trace carriers, nickel spotted on outside.

A BARGAIN ONLY **$32.79**

We guarantee this saddle or harness to give you satisfactory service.

Sears, Roebuck and Co.
Chicago, Ill.

The Ever Welcome Smoke

Ever see a man who wasn't glad to get a pipeful of

Velvet
THE SMOOTHEST TOBACCO

If he doesn't already know Velvet, he soon learns that it is the best tobacco anyone can ask for.

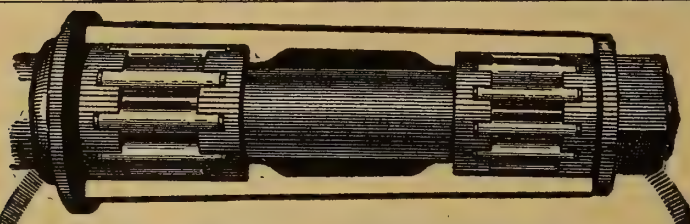
2-ounce tins - - 10c.

Also in one-pound glass humidor jars.

His face will light up with pleasure when he lights up a pipeful of this refreshing "no-bite" Velvet.

You want the best tobacco going—something you will enjoy and be proud of. So slip a tin of Velvet into your pocket today. Your dealer keeps it.

Liggett & Myers Tobacco Co.



A New Invention

That Will Save Millions to Farmers

How much would it save if every farm wagon in the United States could do one-third to one-half more work? How much would **you** save if your wagon did that?

The latest improvement in farm wagons—the greatest in 50 years—is the improved and perfected Peter Schuttler Roller Bearing.

Peter Schuttler
Roller Bearing Wagons
Do One-Third More Work and Do it Easier

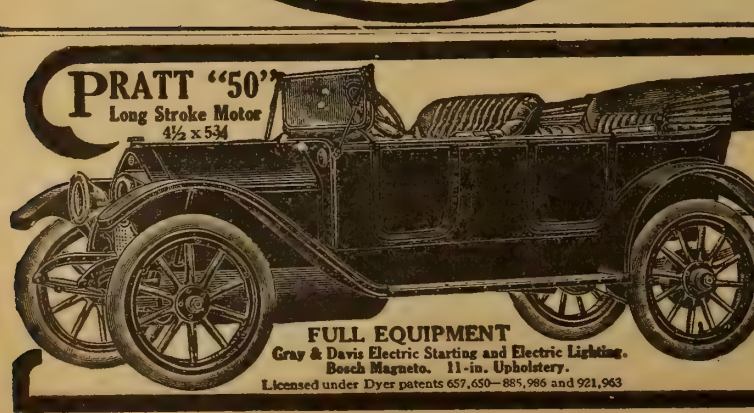
because they run lighter—go more miles—and require less power to pull the load. Schuttler Roller Bearings save time—money—horses—harness—feed—repair bills—axle greasing—trouble, and wear on the wagon. Official tests by U. S. Government Road Experts show remarkable results. The Schuttler Roller Bearing Wagon soon pays for itself by economy of operation.

Write for Free Book

that describes the Schuttler Roller Bearing Construction and gives record of official tests by United States Government.

Peter Schuttler Co.
2508 W. 22nd St. Chicago

The World's Greatest Wagon Factory
Established 1843



1913 Pratt Cars

Five Years—Every one successful as manufacturers of automobiles.

Forty Years—Every one successful as manufacturers of standard vehicles.

Get Catalogue showing photographic view of all models, and giving you the standards by which to value any car.

We have a business proposition for you. Our goal for 1913 is a "Pratt Car" in every locality. If there isn't one in your neighborhood—if there isn't a Pratt dealer near you it will be to your material advantage to write or wire and let us know.

Three Distinct Models—Pratt 50, 122-inch wheel base, electric starter and electric lighting system. Price $2,150.00
Pratt 40, 120-in. wheel base, Presto-O-Starter and electric lighting system. Price $1,850.00.
Pratt 30, 114-in. wheel base, Prest-O-Starter and electric lighting system. Price $1,400.00.

ELKHART CARRIAGE & HARNESS MFG. CO.
ELKHART INDIANA

Cowpea Culture.

COWPEAS should be planted one to three inches deep, according to the nature of the soil. The old-fashioned way of planting peas was to plant them broadcast by hand in a field that had been plowed and thoroughly harrowed; then harrow over lightly to cover the peas. This method has been improved upon by the use of a grain drill, which puts them in uniformly, in rows about eight inches apart.

Another very good plan is to sow the peas broadcast through a field of corn just before working it the last time, the last cultivation covering same up sufficiently to make a good crop of peas. The peas and corn can then be cut together and put in a silo, or corn allowed to mature and ears gathered, then cut stalks and pea vines for hay, or turn the stock into the cornfield after the corn is gathered, or peas allowed to mature and gathered for seed by hand, then plow the vines under for fertilizer or turn in the stock.

When planted broadcast for hay, we recommend that only mixed peas or bunch varieties be planted, as the long-vine varieties mat up so they are hard to handle after being cut. A great many take three-fourths peas, then one-fourth sorghum, millet, soy beans or even oats and plant broadcast for hay, the idea being that the sorghum, etc., by standing upright holds the pea vines up off the ground and allows more sunlight to get to the vines and to the ground, which produces a greater yield. Peas are used largely for a quick hay crop, following a winter crop; disk them right into the stubble as soon as the other crop is harvested, and you invigorate the soil for its winter crop and at the same time make a good hay crop. Some plant peas in rows thirty to thirty-six inches apart, claiming this method brings as good yield in either seed or vines as planting broadcast, as they can be cultivated once or twice before the vines shade out the weeds. Peas are very fine for a cover crop; plant about half bushel to the acre of any variety with your fall planting; the peas come up with their broad leaves and when frost blights them they wilt down, protect and nourish the other crop most satisfactorily.

When allowed to mature their seed, the bunch varieties yield fifteen to thirty bushels of seed to the acre with a good crop; the vine varieties much less. When the vines are cut green the bunch varieties yield one to one and a half tons of hay, the vine varieties about 25 per cent to 50 per cent more. Much larger yields than these are reported, but under very favorable conditions. Should one wish a large seed crop, the yield of seed can be materially increased by an application of phosphate of lime to some soils, but no nitrogen is needed as a fertilizer for peas, even in the poorest soils.

If cowpeas are planted broadcast, one and one-half to two bushels (New Era less on account of being small seed) should be sown to the acre; in rows, about one-half to three-fourths of a bushel to the acre; when planted in corn, about one bushel to the acre if broadcast, while if drilled in beside the corn rows, about one-half bushel is about the right proportion to the acre.

A ton of good cowpea hay is of more value than a ton of alfalfa, or any other hay crop, and when you consider that one planting will bring you in about two months a big hay crop of from one to three tons per acre of the very best hay, it seems absurd that so much money should be spent on alfalfa fields, especially as cowpeas can be planted on the very poorest soil, whereas it takes good, strong land, and land especially adapted for alfalfa. Alfalfa requires twelve months of your land's time.

Pea vine hay may be fed to everything. Chickens, hogs, lambs, goats, pigs, cattle, mules and horses all flourish on pea vine hay. On account of its richness, however, it has to be fed very carefully, and it is necessary to get animals accustomed to eating the green hay for several days by feeding it to them gradually before turning them into a green field of pea vine hay. Some farmers turn their hogs into a pea vine hay field to fatten them to be killed, which does the work quickly and at a very small cost. Pea vine hay—either dry or green—is especially good for milk cows. Work horses will stay in good condition on practically nothing but pea vine hay.

Cowpeas are a natural fertilizer, the real, logical fertilizer provided by nature to renovate soils, and it can be applied with nominal cost, considering results, then make a profit from your land while it is undergoing this improvement. When you plant early you can get one cutting of hay from the early varieties; they will then put out new shoots and leaves, which can be turned under as a dressing for your next crop. Some plant a crop of peas just to be turned under when the vines are matured, considering this the best fertilizer for the money.

Up until two or three years ago peas had to be picked by hand out in the fields. The pods were then run through a huller and the seed separated from the hull. This method is still followed in some sections, especially where they can get cheap labor. Some plant common mixed peas and as soon as the whip-poor-wills mature pick the seed from the whip-poor-wills, then cut the vines for hay. When peas are matured the pea vine stalk and leaves are not as valuable for hay, so it is only in the common mixed varieties that both seed and hay can be harvested to advantage. Another method of getting seed is to let the vines mature in the fields, cut them with a mower, put them on the barn floor and flail the peas out by hand and utilize the hay to best advantage, although the stalks are pretty dry and not very palatable.—[From booklet published by Roney & Co., Memphis, Tenn.

Under the provisions of the current appropriation act for the department of agriculture authorizing the inauguration of experiments in the breeding of horses for military purposes and providing $50,000 for that purpose, the secretary of agriculture, with the concurrence of the secretary of war, has appointed the following men as advisory agents in the selection of stallions and to assist in the operation of the government's plan: Henry Fairfax, of Virgina, for thoroughbreds; C. L. Railey, of Kentucky, for American saddle horses; Walter Palmer, of Illinois, for standard breds; Maxwell Evarts, of Vermont, for Morgans. Each man acts with the officers of the government in the selection of stallions of the breed he represents. The secretary of war has designated Lieut. Col. D. S. Stanley, of the quartermaster corps, to represent the army, and the secretary of agriculture has designated George M. R. Rommel, chief of the animal husbandry division of the bureau of animal industry, to represent the department of agriculture.

The governor of Oklahoma has issued a proclamation calling upon the farmers of that state to burn all bunches of grass which offer a harbor for chinch bugs. The governor of Kansas is being asked to issue a similar proclamation. Investigations have shown that burning of their winter protection will reduce the number of chinch bugs to an astonishing degree.

DIFFERENT BREEDS OF TURKEYS.

To the Editor of The Homestead:

Many inquiries have come to me about the relative value of different breeds of turkeys. The two most popular breeds today are the Bronze and White Holland. Without fear or favor, I will say that my preference is for the Bronze—with one exception. They have queer ideas about the conventional in visiting.

One Bronze hen that was hatched and raised by a chicken hen invariably stayed about the yards and selected a nest in the henhouse. She was the only one that ever seemed to understand the fitness of things. The others, all of them, at nesting time scorned the home nests. If, by any chance, they were herded about the yards until they began to lay, the trouble was over for the time. We used to place barrels on their sides in corners and odd places, and cover them with green branches. Oftentimes the same hen would lay and sit in the same nest several seasons.

It is preferable for a young turkey to never be fed from the house. If the weather was warm and dry the turkey hen and her poults were allowed to go directly to the meadows and fields when their trouble would be over for the time.

The Bronze turkey is the direct descendant from the wild turkey, so what would be more in keeping than that with the first early blast of future cold weather, the different families of our flocks would hunt the highest places and yelp until they were all rounded up? Then the neighboring flocks would emit that peculiar call and pretty soon there would be one drove of turkeys in the country.

I am not disparaging the Bronze turkey; it is my choice, first, last, and all the time, but after chasing them for half a lifetime, I was forced to let them go. Whenever the subject of getting another breed came up, I would, with regret, remember the handsome, snappy, beautiful-hued plumage of the first choice and was indifferent about any other kind.

A neighbor who lived within a half mile of us assured me that if I raised White Holland turkeys there would be no trouble about them straying. As he kept that kind himself and so near, his idea was accepted.

A tom and three hens were purchased, and when they first began to look for nests they bluffed me into thinking they were going to run away, but they never did. Early in the season, by the time the poults were as large as quail, the different flocks would bunch up and the tom would go down to the fields and fight off any enemies that threatened the flock. A White Holland turkey hen is a perfect coward and will run and leave her chicks, where a Bronze hen would fight. On the other hand, I have seen a White Holland tom hover a hen and poults through a heavy rain, and often they will raise the poults while the hen lays and hatches another brood. Nothing of this sort for the Bronze gentleman. He is not far enough removed from the cave dwellers, and when his family assumes maternal cares he hikes to pastures new.

I think the cause of this difference in the breeds is, that the White Hollands are farther removed from the wild stock. Contrary to tradition the white turkey did not come from Holland at all, but is a sport from the Bronze. This belief is intensified by the fact that once when we used a young gobbler, which was very choice, from our own flock in preference to a mediocre bird from a different flock, a white turkey resulted.

We find the White Holland, bred in its purity, a beautiful, quiet, prolific bird. They lay a very large number of eggs and grow to large size. The flesh lacks the gamey flavor of the Bronze and they are not quite so vigorous. In common with many others we have discontinued the turkey business, hoping in a year or two to have better success. M. G. S.

SMOKING THE MEAT.

To the Editor of The Homestead:

The place for smoking meat is important. For twenty-five or thirty joints a house eight by ten feet is about the right size. Where only a few joints are to be smoked a barrel or a dry goods box have been used with success, but one must be very careful that the barrel or box does not catch fire or the meat become too warm. The house should have sufficient ventilation to carry off the warm air. If there are small openings under the eaves or a chimney in the top of the house there will be ample ventilation. An air-tight building is not a good place for smoking meat, for the meat is very liable to be overheated.

I have found it best to hang the meat up close to the rafters. Long poles can be strung to rafters by wire. The meat can be attached to these with binder twine. This puts the meat several feet above the pot containing the fire. Of course, if a stove can be placed on outside and the smoke run in through a stovepipe the meat need not be hung so high. The meat should be so arranged that the smoke will pass freely around it and out of the house. The circulation of the smoke does not need to be rapid. The best results are obtained when it is rather slow.

I have used a good many kinds of wood in smoking the meat, but I prefer the green hickory or maple. My method has always been to use a kettle, the bottom of which is covered with ashes. A fire is put in the kettle, just a few coals from the cook stove. Then the green hickory chips are placed on the coals with the addition of several dry pieces that will keep the fire going. If the wood happens to get to blazing I throw over it a shovelful of ashes. That smothers out the blaze and makes the smoke dense. I never use any soft or resinous woods for smoking purposes. They give a strong flavor to the meat.

It has been my custom to take the meat from the salt several days before smoking it. The salt is washed off in warm water and the meat is hung in position in the smoke house. It will dry in less than ten days. The pores of the meat will then be ready to receive the smoke.

I find it is best to keep up a regular smoke from the time I set it under the meat until the meat is well colored. The regular smoke keeps the meat warm, opening the pores for the reception of the smoke and concluding the work more rapidly. The meat should be thawed out before smoking if it has been frozen. I keep the house dark while smoking to prevent flies. In three or four days by continual smoke the meat will be in the proper condition to pack away for summer use. If weather is not very warm the meat may be left hanging in the smoke house. When it begins to warm up the meat should be taken down and wrapped in paper that is pasted to meat with a starch in which is a liberal supply of cayenne pepper. Then it should be slipped into canvas sacks and hung in the former place. I have followed this method for years, and do not remember of ever having a piece of meat spoil.

Subscriber.

Fills 60-ft. Silos With Ease!

The day of the skyscraper Silo is here. No Silo too high for the Smalley! Mr. Charles Spayde, of Humboldt, Iowa, says: "We cut over 1200 tons of ensilage the fall of 1911, and about 350 tons last fall. Cutter worked fine and we are now using it to cut all of our dry feed, viz: Hay, straw, cane fodder, etc."

Real business farmers like Mr. Spayde have no time to fool with the old slat-apron type of machine. They want this force-feed chain-table, grip-hook kind, made by Smalley only. Thus they save a tremendous amount of work and do a quicker, cleaner job. No coarse, uneven silage. All uniformly cut. Which means greater tonnage per silo.

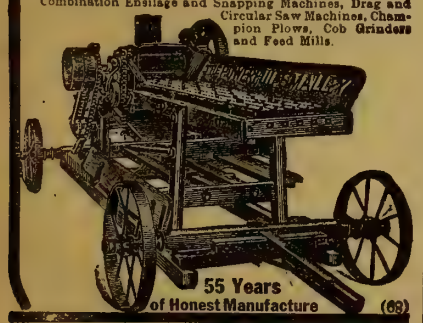
POWERFUL SMALLEY FORCE-FEED SILAGE CUTTER

not only handles green silage, but is also a wonder at cutting dry feed. Handles alfalfa, for instance, to perfection. Letters in catalog prove it. Many farmers use their Powerful "Smalley" to cut corn in the fall and oats and peas in the spring for feeding when pastures dry up in July. Only one drive pulley on Blower outfits No Idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

You won't know what a real Silo Filler is till you've seen the Powerful "Smalley" or had the Smalley Catalog. Why not send a postal this minute for the latest Smalley Catalog and learn about the Silage Machine that four out of five silo owners now use? Write now and you'll get this fine, useful Book by return mail.

SMALLEY MFG. COMPANY
Box 4 Manitowoc, Wis.

Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters, Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Plows, Cob Grinders and Feed Mills.



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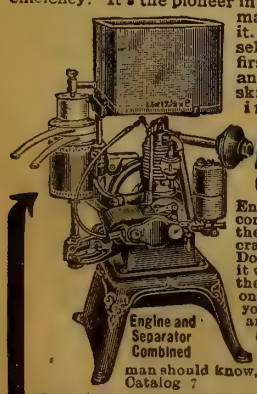
Don't be the Last Man in Your County

to adopt a labor-saving device of demonstrated efficiency. It's the pioneer in such things who makes the extra profit. It was so with the self-binder; with the first gasoline engine; and when mechanical skimming was first introduced. Now comes the



AUTOMATIC Cream Separator

Engine and separator combined. You'll admit the idea is a corker. No cranking—no watching. Don't guess at whether it will make good. Get the facts. Write us at once. Write to men in your own county who are using it. We'll give you the names. For plain facts which every dairyman should know, get our AUTOMATIC Catalog 7

Standard Separator Co., MILWAUKEE, WIS. P.O. Box K 33

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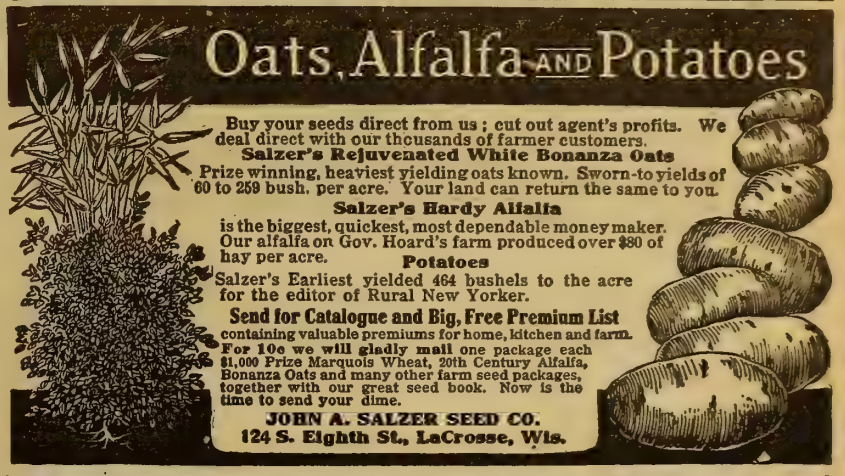


NEW ALMANAC
WHEN TO PLANT AND HARVEST BY THE MOON

Predictions about Crops, Weather, Sickness, Lucky Days, Future Events, When to Transplant, Trim Trees, Set Eggs, Butcher Meats, Travel, Write Letters, Sign Papers, Seek Business, Ask Favors, Borrow Money, Wean Babies, Take Medicine, Perform Surgical Operations Successfully, Etc.

A Daily Guide to Speculate, Gain Knowledge and Make Money

Valuable Information for Show People, Street Vendors, Office Workers, Etc. SEND TWO CENT STAMP for POSTAGE.

Prof. J. MACDONALD, Globe Building, BINGHAMTON, N. Y

TILE YOUR FARM
Better Drainage Means Better Crops

Adequate ditching machinery reduces the cost and labor of drainage to a minimum. Our ditching machines cut a perfect grade and do it at a cost far below the price of hand-work. Write for description and prices.

IOWA DITCHING MACH. CO., MT. PLEASANT, IOWA

When Writing to Advertisers Please Mention The Homestead

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Apr. 8, Dispersion sale, Walter Roberts Estate, Atlantic, Iowa.
Apr. 16, Chas. Escher & Son, Botna, Ia.
Apr. 30, Association spring bull sale, Omaha, Neb.
May 2, Association spring bull sale, Chicago, Ill.
May 3, Association spring bull sale, East St. Louis, Ill.
May 27, P. J. Donohoe, Holbrook, Iowa.
May 29, Otto V. Battles, Maquoketa, Ia.

Short-horn Cattle.

Apr. 2, F. W. Harding, Waukesha, Wis.
Apr. 3, Geo. W. Sayer and Thos. Stanton, Chicago, Ill.
Apr. 4, D. R. Hanna, Chicago, Ill.
Apr. 10, A. C. Shallenberger, Alma, Neb.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Reese & Son, Pilger, Neb. (sale at South Omaha, Neb.)

Hereford Cattle.

Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.

Holstein-Friesian Cattle.

Oct. 21-22. Woodlawn Farm, Sterling, Ill.
May 1-2, T. H. Russell, Geneva, Ohio.

Guernsey Cattle.

May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

If in the market for Scotch Short-horn bulls the advertisement of Davenport & Mack, Belmond, Iowa, appearing elsewhere in this issue, will be of interest.

H. Schuette, 253 Third St., Milwaukee, Wis., has a pure-bred Holstein-Friesian bull calf which he is advertising for sale in his advertisement found elsewhere in this issue.

T. H. Russell, Geneva, Ohio, will sell 200 head of registered Holstein cattle May 1st and 2d at his Idle Hour Farm. File your application for a catalog and watch for particulars.

Two good young Short-horn bulls are advertised for sale by M. A. McWilliams, Wall Lake, Iowa, elsewhere in this issue. One of these is a yearling and the other is a nine-months-old bull and both are sired by Gypsy King, a Bellows-bred bull. The price is $100 each if taken soon. Mention The Homestead when writing Mr. McWilliams about them.

Two splendid young Scotch bulls ready for service are offered for sale by H. B. Harden, Corning, Iowa, elsewhere in this issue. One of these is a Cruickshank Secret and the other is a Bridesmaid. The former is a son of that well-known bull, Col. Dalmeny, regarded as one of the best bulls today in southern Iowa. Make it a point to go at once and see these bulls if you are on the market for a herd bull.

H. P. Wilkinson & Bros., Mitchellville, Iowa, have some imported Shire and Percheron stallions and mares for sale that are now in excellent condition and fully acclimated. These gentlemen have an especially good lot of stallions that they are desirous of selling and will make prices that will look attractive to buyers. See their advertisement elsewhere and write them, mentioning The Homestead.

T. A. Stevenson, Shannon City, Iowa, writes that he is sold out on male Collie puppies, but that he has two "gilt-edge," fancy bred females, whelped August 23, 1912. Typical Collies, sable and white, with full white collars, fine heads and beautiful, well-set ears. There are no better bred ones. They are sired by Mr. Rogers' great imported Collie, Imp. Southport Successor 141339, A. K. C. He is by Champion Southport Sample and out of Ebberleigh Sincere. The dam of these females is Beatrice Lassie 161967, A. K. C. She is by Cannon 137787, A. K. C., and he is by the undefeated Champion Squire of Lytton. Beatrice Lassie's dam is Cartirel Ethel by Champion Parbold Peacock and he is by Champion Aufield Model, dam Lancaster Ida. If you want something fine in the way of the very best Collie blood in this or the old country, and you are willing to pay a fair price for a good one, here is your chance. Write him for prices, mentioning The Homestead. See his advertisement elsewhere in this issue.

J. H. Swink & Son, North English, Iowa, are proprietors of the Quality Poultry Yards. In their advertisement found elsewhere in this issue they are offering eggs and baby chicks of White and Buff Orpingtons, White and Barred Plymouth Rocks, Single Comb White Leghorns, White Wyandottes and Single Comb Rhode Island Reds. They write: "We have a very fine lot of poultry. We have one special feature, that is, we test all of our eggs with the Magic egg tester, which is giving most excellent results. We guarantee our eggs."

The accompanying illustration is that of His Highness, the great roan Scotch bull at the head of the Shallenberger herd. He was got by the great Victor's Roan Duke. Many cows in the forth-

THE HEAD OF THE HERD.

coming sale will be bred to this bull, and a few have calves at foot. The sale will be held at sale barn on April 10th. Address for catalog, Hon. A. C. Shallenberger, Alma, Neb., and kirdly mention The Homestead when you write.

Harder Patent Wins.

We have been requested to call the attention of our readers to a suit just won in the United States District Court by the holders of the Harder silo patents. Full information is found elsewhere in this week's issue in the advertisement of the United States Silo Company, of Anderson, Ind.

Eggert's Imported Horses.

George Eggert, Newton, Iowa, has high-class Percheron, Belgian and Shire stallions and mares for sale at reasonable prices. Mr. Eggert has enjoyed an excellent trade during the past few weeks and will have another importation of high-class stallions arrive at his barns in about ten days. He will be glad to show prospective purchasers his stallions ad give prices. His advertisement appears elsewhere in this issue. Write him, mentioning The Homestead.

Scotch Short-horn Bulls.

Davenport & Mack, Belmond, Iowa, whose advertisement of Short-horn bulls appears elsewhere in this issue, have two Scotch calves which are of real herd-heading character. One is only a June calf, but is the choicest of the bunch of five that are for sale. He is by Fair Knight by March Knight, out of a Lancaster cow of W. C. Edwards' breeding and a matron that weighs 1,800 pounds. This calf is very square and is a choice thing for any breeder who needs a young bull to bring on for later use. The other Scotch bull is also a Fair Knight calf and is out of a cow by Imp. Kinellar Stamp, second dam by Imp. Charmer. He is a big, straight-backed, red calf, a year old in April. A yearling bull, a twin, with another bull now heading a herd, sired by Charming Ensign, out of a cow by Commodore, is a smooth youngster and a good one. There are two other Fair Knight calves, carrying five or more Scotch tops that are worth some investigation by those who need Short-horn bulls. The calves are thrifty and vigorous and have made good growth for their age, especially the June calf from the big Lancaster cow. All are pure bred in color except this same calf, which has small white stockings and some white on the belly. Write now for the descriptions and breeding of the bulls. There are some good bulls here for someone. Address Davenport & Mack, Belmond, Iowa.

Agents Wanted.

Jos. Barnett & Co., a very reliable manufacturing firm that have used The Homestead for a number of years for advertising their goods, now have a vacuum cleaner which is being advertised elsewhere in this issue. They want agents to handle it and pay a very liberal commission. This seems to us to be a very good proposition and we would suggest that some of our friends write them.

Death to Gophers.

We wish to again recommend to our readers Gopher Death, manufactured by the F. D. Chemical Co., Ft. Dodge, Iowa, which has a great reputation through the grain belt for destroying not only gophers, but ground squirrels, prairie dogs, kangaroo rats and other pests of this kind. The price is very reasonable, 1,400 tablets being sold for $1.25. Trial package, fifty cents. A free booklet will be sent our readers who are not now ready to place an order.

Messenger's Hampshires.

Clayton Messenger, Keswick, Iowa, the well-known Hampshire breeder who owns the 1912 undefeated grand champion boar, Messenger Boy, changes his advertisement in this issue of The Homestead stating that he has nothing for sale. Mr. Messenger has 150 pigs to date and thirty more sows to farrow. Later in the season he will be well equipped to take care of his large trade and parties who want to buy high-class Hampshires sired by a champion should keep him in mind.

Cox's Short-horns.

R. J. Cox, Grinnell, Iowa, has some good Short-horn cows and heifers of different ages as well as some extra good young bulls that he would be glad to show prospective purchasers. Mr. Cox raises his cattle in a practical manner and they are always in a position where they may be expected to improve in the hands of the purchaser. If you want some females or a bull sired by high-class Scotch bulls see his advertisement elsewhere and mention The Homestead when writing.

Will Sells' Durocs.

In a recent letter from our old friend, W. M. Sells, Indianola, Iowa, he says: "I recently sold a good young boar to M. A. Canary, Franklin, Ind., and he was a son of Wonder Chief and was out of old Missouri Girl. He is a good pig and I am sure he will be well pleased with him when he gets him. I have about fifty good pigs already and have more to come shortly and if everything goes right with me this year I am going to have something that the boys will all want the coming fall. It looks to me that the Duroc Jersey business is going to be better the coming fall than it has for many years and you can just say to the breeders that I am going to be right there with some of the best pigs I have ever raised, because I am going after them from this time on."

Westrope Offers Short-horn Bulls.

With this week's issue we begin the advertisement of J. G. Westrope, Harlan, Iowa. He is offering sixteen head of good young Short-horn bulls for sale of the Scotch and Scotch-topped sorts. Among the really choice bulls that he is offering is the great young Scotch bull, Scottish Rex, and he is one of the outstanding good young Scotch bulls that is being offered for sale here in the West. He is a son of his splendid herd bull, Royal Rex 3d, and he in turn is a son of Diamond Rex, who in turn was a son of Imp. Cock Robin, the International champion. The dam of this young bull is Carrie Esther 2d by Royal Prince 7th, the next sire being the great bull, Baron Gold Dust 3d. He is a Campbell Rosebud and he is good enough to head any of the best herds in the country. He is a solid red in color, a thick-fleshed, evenly balanced bull, and one that will be a credit to any herd. Owing to the fact that Mr. Westrope has his sire and dam he has concluded to offer this great young bull for sale. Besides him he also has about fifteen young bulls for sale, among which are several Scotch bulls. One of these is a nice roan and she is a well-bred Miss Ramsden. Another is a Rosebud and another is a Flora. Any one of these will make a good herd bull when grown out. He also has a splendid lot of good young Scotch-topped bulls for sale. If you are going to want a bull this spring it will pay you to visit the Westrope herd and do it at once. If you write him kindly mention The Homestead.

A Correction.

In the report of the Ruebel Bros. Poland China sale, held February 20th, the average on the offering should have been $72.16 instead of the figure at which it was given. The offering was a good one and sold well in spite of a rather disagreeable day.

Some Real Choice Short-horns.

L. Chestnut & Sons, Geneva, Neb., still have on hand a few of those very choice Short-horn bulls sired by the great Royal Sovereign that will be priced well worth the money. This herd is one that is particularly good, as most of the foundation cows are sired by Red Champion, a bull that was used in this herd for several years and is now at the head of the Fred Busse herd at Columbus. Red Champion was one of the great Scotch bulls of the state and these young bulls are nearly all out of Red Champion cows and sired by Royal Sovereign by Golden Sovereign. Write Chestnut & Sons at once if you really wish a bargain in a nice, sappy Short-horn bull. Mention The Homestead when you write.

Big Polands Doing Nicely.

J. A. Schaldecker, Grafton, Neb., reports that everything is doing fine at his place. He has a number of fine litters by Big Sensation and out of King Mastodon Jr. sows that look like the right sort to Mr. Schaldecker. Big Sensation is by Vindicator and King Mastodon Jr. is by old King Mastodon and was sold last fall by Mr. Schaldecker to head the Ed Hickey herd and at a good long price. This line of breeding ought to be good and this was largely the sort of stuff that made Mr. Schaldecker his good winter sow sale. Keep the herd in mind, for good boars will be for sale from here a little later. Mr. Schaldecker also has in use in the herd the Herman Baltz herd boar, B.'s Great Hadley.

Huckstep's Mammoth Jacks.

J. C. Huckstep, Eolia, Pike county, Mo., has this year more high-class Mammoth-bred jacks in his barns than he has ever owned at one time. They are Missouri and Kentucky-bred fellows that stand fourteen and one-half to sixteen hands high and are sold under a guarantee that is as good as can be found. Mr. Huckstep has spent a lifetime in the business and has never deviated from his policy of guaranteeing everything to be just as represented. He would rather not make a sale than to have a dissatisfied and disappointed customer. Note Mr. Huckstep's advertisement in this issue and when writing or visiting him kindly mention having seen his advertisement in this paper.

Lefebure's Belgians.

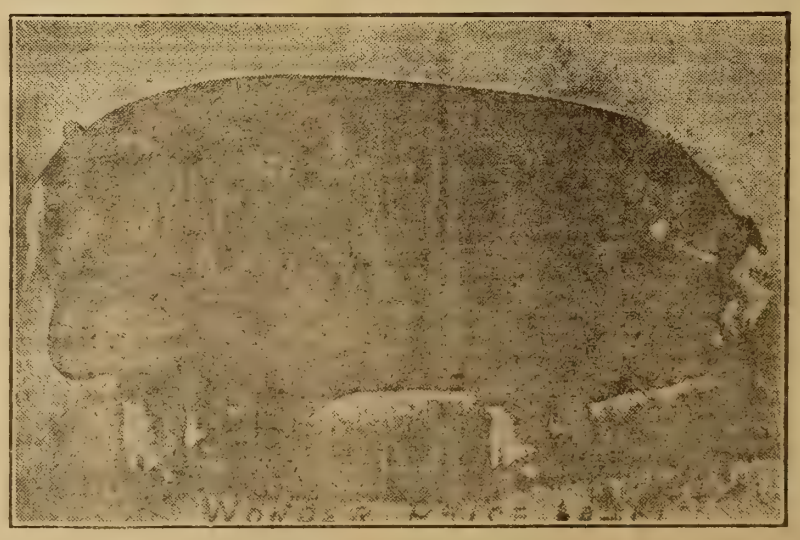
Henry Lefebure, the well-known importer of Belgian horses, Fairfax, Ia., writes under date of March 13th as follows: "My first importation this year of Belgian stallions arrived at my farms in the best of condition today, not one with a cold, and every horse in the best of health. This makes 120 head imported by me during the last eleven months. I have been making an early spring importation every year and find them fully as sure breeders the first season as are those imported in the fall. All my barns are filled full and nowhere will buyers find as large and choice a collection of Belgians to pick from. All lovers of choice draft horses are invited to come and see them. Catalog mailed on application." See the advertisement elsewhere in this issue and mention this paper when writing.

Van Steenberge's Belgians.

A. M. Van Steenberge, Ogden, Iowa, informs us that his imported and home-bred Belgians are now in prime condition to go on the stand. They are of the big, rugged kind, with clean limbs. He will make attractive prices for the next thirty days and can supply horses of all colors from two to five years of age. Among his sales for last week are a team of ton mares to A. Doerder, Boone, Iowa; a heavy bay stallion to New Marion Belgian Stallion Co., Stratford, Iowa; two splendid yearlings to C. G. Dourte, Swea City, Iowa, and a ton three-year-old stallion to Arthur Johnson, Boone, Iowa. Mr. Van Steenberge would be glad to hear from parties interested, as he can supply good, sound horses at lowest prices. A square deal is his motto. See his advertisement and mention The Homestead when writing him.

Trees at Half Price.

We wish to call our readers' attention to the advertisement of the Earl Ferris Nursery appearing elsewhere in this issue, who claims he is selling his hardy northern-grown evergreens at half the price ordinarily paid for stock handled through agents. Mr. Ferris says he can do this because he has no salesmen on the road other than his catalog, which costs him only one cent to mail. In this he describes very clearly the prices on his evergreens, "True-to-Name" fruit trees, Delicious apple, Earl plum, Jones strawberries and many others. Mr. Ferris stands back of every shipment made and guarantees the trees to reach the purchaser in first-class growing condition and to give satisfaction in every respect. He has devoted his entire life to the nursery business, his father having started the present establishment in 1869. He is offering 100 transplanted evergreens (express paid) for $7.50. These trees have been transplanted and root pruned, which assures an abundance of fibrous roots. This is Nature's guarantee of life to young trees. Mr. Ferris assures our readers that evergreens are easy to start when handled as he does, shipping them in air-tight casings and only being out of the ground eighteen



The above illustration is that of Wonder Price, the well-known boar in use in the herd of Herman Schmale, DeWitt, Neb. This is one of the real good A Wonder boars of the country and his dam is the great sow, Lady Nelson by old Big Price. Mr. Schmale is offering early fall boars and gilts by this sire. Write for prices immediately.

to thirty-six hours, according to the distance of the purchaser from the nursery. We would suggest that our readers write to Mr. Ferris for catalog.

An eighteen-months-old stud colt, that seems to be the right kind, is described and priced on page 49 in the advertisement of Amos Hanson, Collins, Iowa. If interested in getting a horse to use on your own mares better go and see this colt or write to Mr. Hanson for further particulars.

Kent's Chester Whites.

Any of our readers who want to buy a few good Chester White sows should write to Thos. F. Kent, Walnut, Iowa, at once, as he has some of the very best for sale. He can supply you with almost anything you want in the Chester White line and now is the time to get your order to him. Don't delay, but send it at once and you will be pleased with the sows you get from this noted herd.

Vaughn Offers Percheron Stallions.

W. W. Vaughn, Marion, Iowa, is offering for sale Perche 69063, a black-gray three-year-old Percheron stallion that has been used some and he has colts to show that he is a good breeder and is siring the right sort of colts. This horse is a low-set, wide, good-quartered fellow with good, heavy bone and good feet. The writer, a representative of this paper, has inspected this horse and can frankly say that he is a bargain at $700, the price Mr. Vaughn asks for him. See the advertisement elsewhere and if in the market for a good horse visit Mr. Vaughn and look over this horse.

Short-horns at Galesburg March 25-26.

Tuesday and Wednesday of next week, March 25th and 26th, nearly 100 head of registered Short-horns will be sold at the C., B. & Q. stock yards, Galesburg, Ill. On March 25th a combination offering from the herds of A. J. Ryden, Abingdon, Ill.; Chas. T. Nelson, Blandinsville, Ill; W. H. Kreigh & Son, Knoxville, Ill., and H. G. Bowers, Elmwood, Ill. Fifty head, including twelve bulls, are listed by these gentlemen, and among them are some very attractive propositions. Wednesday, March 26th, the well-known herd of Rigg & Glasgow, Mt. Sterling, Ill., will be dispersed, owing to a dissolution of partnership. A choicely bred lot of cattle will be sold. Parties in the market for good Short-horns should not overlook these sales.

Glissman's Holsteins.

In a recent letter from Henry C. Glissman, Omaha, Neb., he says: "Following our sale of February 4th and 5th, at which time our Rock Brook herd was practically dispersed, owing to the dissolution of partnership, I have been east and have bought six car loads of high-grade and registered Holsteins. Included are twelve sons of King of the Butter King, four sons of Milk and Butter King, the $10,00 bull, and King Segis Hengerveld, three of the best bred bulls known to the breed. A number of these bulls are out of A. R. O. dams and are grown right. I want to dispose of these in the next thirty days, as I want them all sold by grass time, as I am short of pasture room. I also brought out twenty-three as fine registered cows and heifers as have ever been brought to this western country. Mostly all are of A. R. O. breeding and bred to great eastern bulls, and either fresh or soon due. I also have three car loads of high-grade cows and heifers from one to four years old in the shipment. I want to sell these quick and will price them right to quick buyers." Those of our readers who are wanting either registered or high-grade Holsteins should make it a point to go and see Henry C. Glissman, Station R, Omaha, Neb., at once. When writing him kindly mention The Homestead.

White Bros.' Angus Sale.

On March 25th, White Bros., Perry, Iowa, are offering a draft of forty head of Aberdeen Angus cattle that should meet with the approval of all those who are believers in this great breed of early maturing beef cattle. They are listing forty cows and heifers and ten choice young bulls for this sale and they are very largely made up of the Blackbird, Trojan Erica and K-Pride tribes. They are not only selling a very well-bred lot of cattle, but they are also cataloging an especially choice lot of individuals. One of the very select cows they are offering in this sale will be Star's Rose, a daughter of that famous grand champion cow, Glenfoyle Rose, that for several years won everything in the leading show rings of this country. She sells with a splendid young bull calf at foot by the Blackbird bull, Sunnyside Prince. She will be one of the bargains in their sale. They have drawn upon seven of the very best Blackbird females they have in their herd for this sale and three of these belong to that celebrated Blackcap tribe. Some of these will have calves at foot and the remainder that are old enough will be safe in calf to either their Blackbird bull, Sunnyside Prince, or to their Trojan Erica bull, Imp. Everett of Maisemore. Among the good K-Pride cows they are selling is Imp. Katiska of Moncur, a daughter of European Baron. This was one of the very best heifers that Chas. Escher brought over in his last importation, and they bought her in his sale just following. She has been a splendid breeding cow and they are selling her for an attraction. Her daughter, Katiska of Whitesides by Imp. Kanimura of Ballindalloch, also goes in and she sells with a good bull calf at foot by Everett of Maisemore and she is rebred to the same bull. Then they are listing some of their best Trojan Ericas, many of which are daughters of some of the more noted bulls of the past few years. Among the ten young bulls will be a nicely bred Blackcap and two other good young Blackbird bulls, three Trojan Ericas and two K-Prides. While some of these bulls are young there are nevertheless some good herd-heading material among them. Write White Bros., Perry, Ia., for catalog and kindly mention The Homestead.

Huckstep's Mammoth Jacks.

J. C. Huckstep, Eolia, Pike county, Mo., has this year more high-class Mammoth-bred jacks in his barns than he has ever owned at one time. They are Missouri and Kentucky-bred fellows that stand fourteen and one-half to sixteen hands high and are sold under a guarantee that is as good as can be found. Mr. Huckstep has spent a lifetime in the business and has never deviated from his policy of guaranteeing everything to be just as represented. He would rather not make a sale than to have a dissatisfied and disappointed customer. Note Mr. Huckstep's advertisement in this issue and when writing or visiting him kindly mention having seen his advertisement in this paper.

The Sayer-Stanton Short-horn Sale.

Thursday and Friday, April 3d and 4th, George J. Sayer, McHenry, Ill., and Thos. Stanton, Wheaton, Ill., will unite in an offering of 100 head of Short-horn cattle at Chicago, Ill. There is much to interest the buying public in this sale, both in bulls and females. Mr. Sayer is selling much of the get of the $10,000 Prince Imperial and many of the females are bred to Roan Sultan, the sensational son of Glenbrook Sultan. There are four good young bulls, including Claret's Prince by Prince Imperial, that are worthy of attention sale day, and many extra good females are cataloged, of which we will speak in a later issue. Mr. Stanton sells fifty head, including six bulls, and he has one of the top offerings of the season. He is selling what is without doubt the best balanced lot of cattle he has ever presented. The bull end of it is very attractive, and in addition he will offer the choice of his herd bulls, Masterpiece and Browndale Sultan. He can spare either, but not both. They are among the outstanding sires of the breed. Masterpiece has been raised from a calf by Mr. Stanton and his get in the herd stamp him as a sire of the top rank. Browndale Sultan is little short of sensational, and the record of both bulls is of the best. In addition Mr. Stanton is selling Roan Masterpiece, a cracking good youngster by Masterpiece, an outstanding roan calf by the McMaster bull, Silverdale, out of an imported Missie cow, that is a great prospect and a calf by Selection, out of a Glenbrook Sultan dam that gives every promise of developing into a very valuable herd header. There are forty-four females in Mr. Stanton's offering, all good ones and all attractively bred. Sittyton Beauty is a good young cow with an exceedingly heifer calf at foot by Masterpiece. White Secret belongs to the same family as the show cow, Susan Cumberland. She has a good bull calf at foot by Sailor, a Pettit-bred bull, and is rebred to Masterpiece. Lady Craibstone sells with a bull calf at foot by Perfect Marshal, a grandson of Whitehall Sultan, and Viola Blossom is an attractive Orange Blossom, heavy in calf to Silverdale, the outstanding bull at the head of Mr. McMaster's herd. Sinnissippi Pearl, a Missie by Ceremonious Archer and out of a Red Knight dam, is one of the good cows in the sale and is bred to Masterpiece. Sittyton Lady by Glenbrook Sultan is a very sweet, thick heifer, well along in calf to Master Missie, a son of Masterpiece, and another outstanding daughter of Glenbrook Sultan is offered in Oakland Mildred, out of Pine Grove Mildred 5th by Marquis of Zenda. She is bred to Sultan's Cruickshank. An extra good young cow is offered in Village Maid, bred to Browndale Sultan. And so it goes all through the list. Attractive individually and possessing as rich pedigrees as can be found in the herd book, these cattle should appeal very strongly to the buying public. They will stand inspection in every way. This sale follows that of Anoka Farms at Waukesha, Wis., April 2d, and precedes that of D. R. Hanna at Chicago, Ill., on the afternoon of April 4th. Practically 200 head of cattle are to be sold at these four sales, the largest number of the year, and each sale lot is a high-class offering. Attend these sales. There will be cattle for all. Write today for the Sayer-Stanton catalog to Thos. Stanton, Wheaton, Ill., mentioning The Homestead when you write. See advertisement elsewhere in this issue.

American Goods for Sale.

Elsewhere in this issue will be found the advertisement of W. M. McLaughlin, Shelby, Iowa, who is offering to sell his splendid Short-horn bull, American Goods, and he is a bargain for some breeder who is on the market for a strictly good herd bull. American Goods is now six years old and he is a son of that celebrated show and breeding bull, Imp. Choice Goods, and he is one of the few sons of that celebrated sire now living. His dam is Princess Violet by the great bull, Alice's Prince, that was used so successfully in the Casey herd, and he belongs to that noted Marsh Violet tribe. Mr. McLaughlin originally purchased this bull from Bellows Bros., in company with Charlie Daws and August Sonneland. Later on Mr. McLaughlin acquired the other interests and for the past three years has owned the bull himself and has been using him with the best of success. He will weigh 2,200 pounds in breeding condition and is just in his prime. He is retaining all of his heifers in the herd and as he now has two other herd bulls he has decided to sell him. Mr. McLaughlin has another good herd bull that he secured from Charlie Daws and he will also offer the buyer the choice of these two herd bulls. This bull is a low-set fellow and is a son of Nonpareil Prince, the bull that headed the C. W. Daws herd and was the sire of nearly all of his show cattle. This bull belongs to that noted Jasmine tribe and is a daughter of Jasmine 7th, the most noted breeding cow Charlie Daws ever owned. He will give a man the choice of these two bulls and he also has about ten young bulls for sale. Write Mr. McLaughlin at once about these bulls, but the best thing to do is to go and see these at once, as there are not many bulls bred like these now offered for sale. When you write him kindly mention The Homestead.

Saunders' Short-horn Bulls.

Elsewhere in this issue will be found the advertisement of C. A. Saunders, Manilla, Iowa, who is offering some excellent young Short-horn bulls for sale. Several of these are very choice and are strictly herd bull propositions. Inasmuch as there are so few good bulls for sale and inasmuch as Mr. Saunders has some good ones, it behooves those who are going to want a bull to go and see these at once. One of the choicest is a thirteen-months-old roan bull called Royal Cumberland 5th, a son of the great show bull, Royal Cumberland, that was champion bull at the Denver show three times. His dam is Gladsome 5th by King Marengo, second dam by that noted bull, Champion, and third dam by Imp. Brunswicker. Here is a very promising roan bull of that celebrated Gardenia tribe, and he will make an excellent herd bull for some good herd. Another choice bull is Royal Cumberland 3d, he by Royal Cumberland and out of Gypsy Maid by The Baron. This is also a roan in color and a good one. He was a first-prize bull in the junior calf class at the Iowa and Nebraska State Fairs and second at the Royal. He is a wonderfully thick-fleshed bull, with the best of head and horn, and will make a splendid herd bull. One of the greatest young bulls to be found on the Greely Farm this year is a young roan bull called Cumberland's Type. This youngster is a son of his celebrated bull, Cumberland's Best, and his dam is Gypsy Cumberland by Cumberland's Last. He is a rich roan in color, with a wonderfully good coat of hair, and is a bull of unusually strong character. His head and horn are strictly good, his body is thick, his rib is wide and his depth of quarter and wonderful back and loin make him one of the best young bulls we have seen this year. He has a few other good young bulls that he is pricing at from $150 up. He also has thirteen good steers that he is fitting for the shows this fall, and he has enough to fill all the grade and pure-bred classes. Some of these are outstanding good ones and Mr. Saunders says he is going after the grand champion steer class this fall. Those of our readers who are wanting to purchase a bull to head their herd had better go and see these bulls that he is offering at once. If you write him kindly mention The Homestead.

The illustration shown herewith is a photo taken on the fine stock and alfalfa farm owned by W. N. Rogers, McCook, Neb., and which is now for sale. This is one of the best improved and most noted stock farms in Nebraska, and is in better shape to make money for the operator at this time than ever before, and it has made money for Mr. Rogers for the past twenty years. A couple of years ago an irrigation system was put in, and practically the entire farm is under this ditch, which is a private affair and owned by the farm and will sell with it. A water right of this sort is something to be proud of, as it is certain and of very small expense for upkeep. Bumper crops of alfalfa and grain can be grown every year by the use of a little water, while some years it is not needed at all. Splendid local markets and the very best of through train service to markets both east and west make this farm an ideal proposition. Very liberal terms can be had on this place, and those of our readers interested should certainly write for full particulars. There are 508 acres in the farm proper, and also a half section lying across the road adjoining, which can also be had at practically the same terms and prices if one wishes. This half section also has much land under ditch and water right. Write for full particulars and if interested in owning one of the very best money-making propositions in the country, get busy. Address, mentioning The Homestead, W. N. Rogers, McCook, Neb. See advertisement elsewhere.

Leitch & Sons' Clydesdales.

John Leitch & Sons, La Fayette, Ill., the Clydesdale men, write: "Our sales continue good and we have never before had as many inquiries. Our new importation is doing fine and we have now in our stables what is undoubtedly the best lot of outstanding horses that we have ever been able to show our trade. We have more big weighty ton horses and more growthy colts than any of our competitors. We have just sold to the North Branch Horse Breeders' Association, North Branch, Mich., a grand three-year-old Clydesdale stallion; to A. B. McKillop, Lapeer county, Michigan, a good two-year-old filly, and to D. G. Smith, Lapeer county, Michigan, a good brood mare, one that will do him a world of good. We have sold to Peter Quinlen, Guttenberg, Iowa, a grand five-year-old stallion, the good, heavy-boned kind, and to Findlay Bros., Vassar, Mich., the show and breeding stallion, Ronaldo, a horse that has always been well up in the money wherever shown. These gentlemen are founding a stud of Clydesdales and wanted the best foundation stock. J. C. Jones, Grand Ridge, Ill., purchased a three-year-old stallion, a grandson of the world-famed Baron of Buchlyvie. Mr. Jones has lately founded a stud of Clydesdales and has made no mistake in selecting a sire, as he secured one of the grandest colts in the United States. We have also sold to Harry Ackmeyer, Burlington, Ky., a four-year-old stallion of exceptional merit and the best of breeding. This stallion was bought to cross on some well-bred Kentucky mares. Mr. Ackmeyer is a lover of the great Scottish drafter and he is to be congratulated on securing so good a horse. We still have plenty of good ones and parties in the market for a good stallion or mares will make no mistake in visiting our stables. We can show more Clydesdale stallions than any two of our competitors, and we are pricing them lower than they can be purchased at any other establishment." The advertisement appears elsewhere in this issue.

Hanna's Short-horn Sale.

Friday, April 4th, D. R. Hanna will sell fifty head of Short-horns from his Cottage Hill Farm herd, Ravenna, Ohio, at Chicago, Ill. This will be the concluding sale of a series starting at Anoka Farms, Waukesha, Wis., April 3d, followed by the Sayer and Stanton sale at Chicago, Ill., April 3d and the forenoon of April 4th, and no offering will be superior in breeding or individual merit to that which Manager John Garden has selected for this sale. The blood of the great sire, Villager, will predominate. Six of his sons and six of his daughters are listed. While there are four of his grandsons in the sale, and all females of breeding age are bred to either Villager or his sons, Village King and Village Denmark. No Short-horn sire in the country today is forging to the front as rapidly as Villager and the cattle he is producing give ample evidence that he is bound to leave his impress upon the breed. Parties looking for young bulls will find much to interest them in this offering. A very thick, meaty senior yearling is Village Chieftain by Villager. He is a roan, very rugged and growthy, well quartered, with a strong head, and should be in demand sale day. Village Tramp, also by Villager, out of a Lavender dam, is a nice prospect, straight and level, with a good head and plenty of substance. Village Knight by Villager is a promising white calf, out of a March Knight dam, and Village Lyon is a deep, thick, soggy youngster, out of a Butterfly dam. Village Crest is by Village King, out of a dam by Villager, giving a double cross of this blood, and is a well-modeled youngster, with strong back, smooth and well balanced and the type that is in demand. Denmark 2d by Village King, out of the dam of Village Denmark, is a red of much promise and one that Manager Garden says is as good as the sensational Village Denmark was at his age. Village Marquis is by Village King, out of Ruby of Pine Grove 9th, a fine Brawith Bud cow, and is the low-down, sappy, even-fleshed kind. But it is not alone in bulls that the offering is attractive. Manager Garden is offering some exceptional things in the female line, headed by the sensational Village Primrose 2d, first-prize senior heifer calf at the 1912 Ohio, Indiana, Royal and International shows, and junior champion at the last named. This sweet, sappy heifer is even better than when in the show circuit last year and is one of the top things to be offered in any sale this year. Her full sister, Village Primrose, two years old, is also cataloged. She is a red, with a fine head and horn, great front, even, well ribbed and will develop into a matron of the most approved type. Village Maid 2d is another senior yearling by Villager, a strictly show proposition, with a sweet, feminine head, very thick and meaty. Village Blythesome and Roan Lady are two junior heifers by Villager that give every promise of great development. The get of Villager in this sale demonstrates that he is as prepotent a heifer getter as he is a sire of good bulls, and stamp him as one of the great sires of the breed. There are outstanding young females in this sale by such sires as Village Sultan, Glenbrook Sultan, Avondale, Premier, Anoka Sultan, Whitehall King, representing the best Short-horn families that are bred to Villager or his sons, Village Denmark and Village King. One cannot estimate the value of this commingling of the blood of such strong sires. It is an opportunity to secure Short-horns of the most approved type and breeding and should have the patronage of all interested in the reds, whites and roans. The catalog can be secured by addressing John Garden, Ravenna, Ohio, as per the advertisement elsewhere in this issue.

Kindly mention The Homestead when you write.

Butler's Percherons and Belgians.

A good lot of young Percherons, both stallions and mares, sired by imported horses and out of imported mares, are offered by W. J. Butler, Ottawa, Ill., who will sell them at farmers' prices. Mr. Butler also has some Belgians of the right pattern. See his advertisement elsewhere in this issue and write him.

Simmons' Red Polled Cattle Sale—Last Call.

On March 29th, at Lexington, Neb., will be held a sale of Red Polled cattle that western men should endeavor to attend. The sale will be principally made up from the herd of Paul Simmons, Cozad, Neb., but a few are listed from the well-known herd of J. O. Anderson, Lexington, Neb. The sale will be held in the city of Lexington and this point has exceptional train service, being on the main line of the Union Pacific and all trains stopping. This sale marks the complete dispersion of the Simmons herd and many daughters of the famous Teddy 11000 will be offered and they are just as good property in the way of Red Polled cattle breeding as the writer has any knowledge of. They are mostly bred to Cremo Lad, a son of the celebrated show bull, Cremo. A few Cremo cows are listed to sell and they certainly should appeal to those looking for good stuff. It is doubtful if better breeding foundation material has been used to build up any herd than has been used in this herd. It is unfortunate that Mr. Simmons is obliged to disperse this herd, but ill health compels him to do so. If this herd were better known it would add many dollars to the total of the returns, but this fact will make the place a good one to attend for those who are in the market, for these cattle are certainly right in every way. The experience the writer has had with the breed leads us to believe that in this sale will be as good foundation material as has been offered in the West in years and the lead that Nebraska has taken in the show-yard winnings in the leading shows the past few years is good evidence that the West has good cattle. The cattle that are being consigned by Mr. Anderson are characteristic of the sort of stuff always produced on his farm. Mr. Anderson is one of the men who has started with little and built up a business that is enviable in that it is based absolutely on its own merits, and not due to the fact that he has been a buyer of a lot of high-priced stuff. True, he has always purchased high-class cattle and hogs, and at the big sale made by McKelvie & Sons a number of years ago Mr. Anderson was one of the very strongest supports of the sale, but the writer wishes to convey the idea that this business rests on its own foundation, that the stock is sold on its merits, principally to new men, and that the business of breeding pure-bred stuff has been profitable to Mr. Anderson. A better time to embark in the pure-bred cattle business has not been presented for a long time, if ever before, and we earnestly urge Homestead readers to attend this sale if interested in Red Polled cattle. Make arrangements to attend and should you write mention The Homestead.

Harding's Short-horn Sale.

The females cataloged for the annual sale of Short-horns at Anoka Farms, Waukesha, Wis., on Wednesday, April 2d, form what is undoubtedly the best balanced and most attractive lot that has been offered at this premier breeding establishment. The majority were bred by Mr. Harding, representing the concentration of the popular Whitehall Sultan blood, and should appeal very strongly to those wanting the very best to be had in Short-horns. It is impossible to particularize regarding the entire offering. The merit of the cattle cannot be appreciated unless they have been seen. They will fully beat out any commendation that may be given them. No better young cow will be offered this year than Sultan's Aconite, two years old, sired by Whitehall Sultan and bred to Sultan Mine. Mr. Harding considers her the best daughter of Whitehall Sultan he has ever sold. She is not yet three years old, possesses wonderful thickness, character and quality. She is a show proposition in the fastest company and will add strength and prestige to any herd. Another top one in any company is Victoria 3d by Village Sultan. She is the breedy type, thick and deep, and would be right at the top in any show ring. A very strong prospect is offered in Lady Zenda 6th by Leader of Fashion, and a good daughter of Whitehall Sultan is seen in Lavender Sultana. This good, thick young cow is bred to Gloster Fashion. Four outstanding yearling heifers by Fond Memory are offered in Golden Wreath 11th, Goldie, Secret Memory and Village of Anoka, the dam of the latter being the dam of White Sultan. This is a very typey bunch and would be a great purchase for some man needing the right kind of foundation stock. Missie of Cloverleaf 7th sells with a fine heifer calf at foot, making a very attractive pair, and Broadhooks Rose 4th has a white bull calf at foot by Superb Sultan that is a herd prospect. The show heifer, Snow Queen by Superbus, and bred to the champion, Ringmaster, is a top one in any company, as is also Nonpareil Fashion by Leader of Fashion. Broadhooks Anoka by Sultan Mine and out of a dam by Ceremonious Archer is a pleasing proposition and offers a combination of blood lines that should be very attractive. Mischief E. 3d is a show heifer and due to calve before sale day. This extra good young cow should not be overlooked sale day. These are only a few of the good things to be offered, but will suffice to give readers some idea of the merit of the offering. Mr. Harding is selling forty-five head, thirty-three females and twelve bulls, and six head, five females and one bull, are contributed by Heart's Delight Farm, Chazy, N. Y., three of the females and the bull being sired by Imp. Primrose Monarch, a Duthie-bred bull. The twelve bulls Mr. Harding is selling were spoken of at length in last week's paper. They are the kind for which Anoka Farm is noted, and parties needing Short-horn bulls of the best breeding and strong individuality, bred in Whitehall Sultan blood, will find them at Waukesha, Wis., April 2d. Catalogs can be secured by addressing Anoka Farms, Waukesha, Wis., as per the announcement elsewhere in this issue.

Dispersion Sale of Aberdeen Angus.

On April 8th, at the fair grounds in Atlantic, Iowa, will occur the dispersion sale of the Walter Roberts herd of Aberdeen Angus cattle and it will be a splendid place to buy good Angus cattle. The death of Mr. Roberts some time ago is the reason for this dispersion sale and there will be sixty head listed for the occasion. There will be fifty head of cows and heifers and ten head of bulls. Just to show our readers what kind of an offering this will be we will say that there will be twenty-six head of Blackbirds and fifteen Trojan Ericas in the sale, and the remainder will be made up of Queen Mothers, Heatherblooms and Prides. All of their show cattle will be sold, including several winners at many of the western fairs last fall. The old herd bull, Deceiver, will be sold and he is a good breeding bull. He is a seven-year-old bull and in his younger days was a noted show bull. He was grand champion bull at the Seattle Exposition and was a winner at the Iowa State Fair and the International, being defeated only by that noted show bull, Glenfoyle Thickset. There will be a good two-year-old bull in the sale called Botna Valley Blackcap, sired by Sir Blackbird, a bull sold by Chas. Escher a couple of years ago. His dam is Blackcap Echo, a cow that cost Mr. Roberts $805. Another good two-year-old bull is Black Pier, a son of Chas. Russell's bull, Blackbird Barney. He is a double-bred Blackbird and one of the thickest bulls in the sale. There are a number of other good young Blackbird and Trojan Erica bulls in this sale that will appeal to the farmers and breeders who want Angus bulls. There is a good offering of cows and heifers in this sale and many of these have been the tops of some of the best herds the past few years. There will be three imported cows listed, viz.: Imp. Elnora, Imp. Erebena and Imp. Percefoam of Stenhouse. Some of the get of these cows will also be sold in the sale and they are all good. One of the splendid cows listed is Blackbird Bess, a three-year-old daughter of Imp. Earl Eric of Ballindalloch. They showed her at several of the western Iowa fairs last fall and she was first-prize and champion cow wherever shown. She is safe in calf to Imp. Eston of Eshott, Chas. Escher's well-known Enchantress bull. She is one of the best Black cows in the sale. Another good cow of the same tribe is Black Gertrude, that sells with a good cow calf at foot. This cow was the top of the Len Lamar sale a couple of years ago. Blackbird McHenry 52d is another great big cow that sells with a good heifer calf at foot by Black Ballander. She is a six-year-old cow and was the top of Chas. Escher's sale at Omaha. Blackcap Echo is that splendid Blackcap cow that topped the Escher sale at $805 and she is safe in calf to the young Blackbird bull. She also has a good young bull and heifer in the sale. Among the many good Trojan Erica cows to be sold is Enchantress 16th. She belongs to that celebrated Enchantress branch of equally noted Trojan Erica tribe and she sells with a good heifer calf at foot by Botna Valley Blackcap. These are but a few of the better bred things that will be found in this sale. Twenty-one cows will have calves at foot and this will look good to those who want to buy females. Above all things else it will be a splendid place to buy Angus cattle. When writing for catalog address the Walter Roberts Estate, Atlantic, Ia.

The Allen Short-horn Sale.

Without question one of the very best offerings of high-class Short-horn cattle that the writer has ever seen cataloged for a sale is the offering that Geo. Allen & Sons, Lexington, Neb., will sell at South Omaha, Neb., on April 22d. There will be more herd-heading bulls, more high-class females of desirable ages and of splendid breeding and conformation than we have ever before seen go in one sale. The bull end of the sale is far and away the best that Allen & Sons have ever put up. As good bulls, barring one or two, as we have seen for sale for several years, are in this offering. A two-year-old red bull, Gount Victor by Victor Sultan and out of Victoria Countess by Imp. Collynie Archer, is certainly one of the best herd bull prospects that we know anywhere. His second dam was Victoria Princess by Color Guard, third dam Imp. Victoria 67th by Lord of the Isles. This breeding is good enough for anyone, and we would like for someone who has been looking for a herd bull for a long time to see this fellow. He is the bull many men are looking for right now. There are a number of younger ones, extra choice, all by Victor Sultan and out of the very choicest of cows, which will be offered. They are out of such cows as Imp. Collynie Missie by Nonpareil Victor, Missie V. by Vanguard, Barmpton's Crocus by Imp. Banker, Roan Rosemary by Royal Banner, 2d Duchess of Gloster by Orange Blossom's Commander, Orange Lily 2d, out of Imp. Orange Lily and by New Year's Day and a few others equally as good. Victoria Countess, the dam of Count Victor, is the cow that Mr. Allen paid $1,000 for in the Dryden sale a few years ago. Among the good cows are Golden Lady 2d by Lord Missie and out of Imp. Golden Chain by Silver Plate, Village Maid 3d by Sultan Royal by Whitehall Sultan and out of Village Maid by Imp. Earl Marr; Lady Cinderella 3d by Lord Missie and out of Imp. Clara 4th by Golden Ray; Lady Missie 10th by Prince Victor 2d, out of Lady Missie 5th by the great and only Godwin; Lavender Princess 7th by Victor Sultan and out of Lavender Princess 3d by Lavender King; Sunbeam Violet 5th by Baron Rose, tracing to Imp. Sunbeam by Royal Violet, and many others equally as good. Positively the greatest offering of choice cows and bulls of the very best breeding that has ever gone through a sale ring in the West will be offered in this sale. The breeder or the beginner who is looking for the very best cattle to be had should attend this sale by all means. Allen & Sons' cattle sell lower according to the merit than most any breeder we know of, and while these cattle will in all probability bring fairly good prices, yet the writer is of the opinion that there will be the greatest lot of bargains in this sale of any sale this season, for they are certainly worth more than most any offering of stuff that we could name. If you have not the catalog, get your name on this list right now, today, and as soon as the catalogs are out you will receive one.

NEXT WEEK'S SALE PROGRAM

Monday, March 24	Duroc Jerseys, Smith & Rodgers, Springfield, Ohio.
Tuesday, March 25	Short-horns, A. J. Ryden, Galesburg, Ill. Aberdeen Angus, White Bros., Perry, Iowa.
Wednesday, March 26	Holstein-Friesians, A. J. Podendorf, Logan, Iowa. Short-horns, Rigg & Glasgow, Galesburg, Ill.

CONCRETE ROADS FOR COUNTRY USE.

To the Editor of The Homestead:

In several sections of the country roads have been economically built of concrete and serviceably used for a number of years. With macadam roads in some instances costing from $8,000 to $9,000 per mile and being of only temporary value in solving the good highway problem on account of heavy maintenance expenses, the permanent concrete roads, it is claimed by some, excels all other classes of highways for all-round efficiency and adaption for both heavy and light traffic.

Particularly good results have been secured in Michigan with concrete roads. Some of these highways have been subjected to rigid test for four or five years and in every instance they have proved their excellence, durability and relative inexpensiveness. Annual maintenance expenses which in several Michigan districts formerly exceeded $40 per mile have been reduced to trifling amounts in consequence of the utilization of concrete roads.

It is always to the country's interest to build only that kind of road that will give the best results at the least annual cost. Permanence, practicability, and ultimate inexpensiveness are outstanding characteristics of the concrete roads. In addition, these concrete highways are smooth and yet not slippery. Everyone appreciates how irregularities in the surface prove to be sources of weakness and ultimate failure. If the pavement road is rough, the wheels passing over it pound and soon break down the road. If the road surface is at all wavy, the depressions will accumulate water which will in the long run accomplish the ruin of the road. The concrete roads, it is claimed by some, remedys all these difficulties.

Concrete roads make smooth, permanent, dustless and durable highways whose original rather high cost is balanced by their subsequent low annual maintenance charges. Of course, efficient management and workmanship must be employed in the construction of such concrete highways; care in the selection of good, clean stone and sand, economy in the use of cement, adequate methods of drainage, the practice of proper mixing of the concrete, and care in preparing the foundation are all prime requisites for the construction of efficient roads of a permanent nature. Furthermore the planting of trees along these concrete highways has proved of inestimable value in Michigan. The trees act as a shield and protection for the roads; they ward off the extreme heat of the sun and materially add to the life of the highway. The shade afforded by the trees is a comfort alike to both men and beasts that traverse the roads.

The practice in Michigan is first to prepare and shape the subgrade, rolling it with a ten-ton roller and laying the concrete right on the natural subsoil. The trunk roads are built sixteen feet wide with—gravel or limestone shoulders four feet wide on each side. The lesser-traveled roads have twelve feet of concrete with a minimum width of twenty-four feet. Some ten and eighteen feet concrete roads are also built. The concrete is put down wet so that no tramping is necessary after it is placed. Thereafter the concrete is not disturbed until it is trimmed to the curvature of the road and thoroughly dried. Smoothing is done with simple wooden floats of home manufacture. The work of each day is covered with canvas; the next day the canvas is removed and the concrete surface is covered to the depth of two inches with sand or other loose soil to prevent the concrete from drying out too rapidly. The road is sprinkled continuously for eight days. Roads are not opened to traffic until at least two weeks after the last concrete is put in place. The roads are built in twenty-five-foot sections with projecting plates three-sixteenths of an inch thick and three inches wide at each contraction joint. These plates protect the edges from chipping. Two thicknesses of asphalted felt are inserted between these metal plates cutting the entire depth of the concrete. The concrete mixture generally used consists of a combination of one part of cement, one and one-half parts of sand, and three parts of crushed stone gravel evenly and thoroughly mixed. In Wisconsin a one, two, four mixture is being used and according to reports, with satisfaction.

In the case of one of these Michigan concrete roads the base was a four and one-half inch filling of a one, three, six mixture with a surface of one and one-half inches of a one to

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We have just published a wonderful new book entitled "Clover, the Great $Cash Money Crop$." It tells you how to get a sure "catch" first planting; how to keep clover in the rotation; about clover as a soil enricher; how to handle the crop for hay and seed production; how to grow clover that makes richer feed—that produces more beef and milk. It explains the cause of clover failures; how to avoid winter killing; how to prevent ground heaving; how to guard against the loss from heat and drought; all about the causes of "clover sickness" and how to deal with it. Hundreds of other questions, covering sixteen clover varieties, are fully answered. Ordinarily this book sells for 35c, but for a short time we will mail a copy free, or until a certain number have been distributed. Write at once.
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A Non-Rotting Manure Proof Shoe for Farmers
A work shoe with style and perfect fit. Made well from especially tanned leather by special process. Will not rot or crack through from barnyard service. Nothing like it on the market. Cost no more than ordinary shoes. Ask your dealer for them. Each pair absolutely guaranteed by manufacturer to stand manure and barnyard acids.
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Easier on Your Engine
Fastest, lightest-running mill made. No burrs. One set rollers grinds 5,000 bu. of cob—wet or dry. *Force feed*—can't clog.
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If it doesn't "make good" on your farm—grind *faster, finer, cheaper* than any mill you ever saw—send it back at our expense. You don't pay one cent down. Write for details, stating H. P. of engine.
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SPECIAL SALE OF PERCHERON and BELGIAN STALLIONS

FOR NEXT THIRTY DAYS

New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More to arrive in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in U. S.

HOLBERT HORSE IMPORTING COMPANY.

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two mixture of cement and coarse sand. After the first year all of these roads were built in a single layer seven inches in depth on the average. This road was laid in twenty-five-foot sections with three-quarter inch expansion joints. On the surface of some of these roads was placed a wearing coat of three-eights inch sand and bitumen, using one-half a gallon of bitumen and one-ninth of a cubic foot of sand per square yard of road. The work was done by $1.75 to $2-per-day labor with the cement costing $1.07 to $1.32 per barrel and gravel seventy-five cents per cubic yard. Under such conditions the total cost of the highway would likely average something over $1 per square yard, exclusive of draining and grading. Under average conditions the Michigan road crews aim to build about 450 feet of roadway that is sixteen feet wide and seven inches thick per day. All Michigan roads that have been used for from one to four years show no bad effects from wear.

W. A. Freehoff.

Dane county, Wis.

LITTLE CORNER PLOTS.

To the Editor of The Homestead:

Many farmers throughout the country have little plots of ground ranging from one-half to three acres of land. These plots may be in a corner of a square field, but are cut off by an open ditch; or the field may not be square and a nook is left at plowing time for the reason that there is too much turning for the teams.

The main or the large square part of the field is planted to crops that can be planted and harvested with two or more horses and machinery. This part of the field is also given a rotation of crops. Not so with the little plot in the corner. If it is planted at all, it is planted to potatoes and sorghum. And this is done year after year with no rotation of crops. No thought of changing the kind of crops is given. Consequently the little plot of ground is "worn out" and, as time goes on, the yield of potatoes and cane grows less and less.

"What else can I plant there except potatoes and cane?" I have heard a farmer say. "I don't want to bother with more than one horse on a little patch like that."

Of course, the farmer meant the cultivating of the crop after it was planted. One need not plant only potatoes. There are other crops that can be cultivated with one horse. Cantaloupes, melons, pumpkins and cucumbers can all be cultivated with one horse better than with two. And where cantaloupe melons are planted turnips can be grown in the fall, making two crops off of the same ground in one season. It must be understood that the ground is to be well enriched with some kind of fertilizer, preferably stable manure.

I would not advise growing a variety of turnips that shade the ground to a great extent. A short-top variety is what is wanted in a melon patch, so that the sun can get to the melons. The seed of turnips should be sown just before the last cultivation is given the melons and plowed in. Cantaloupes can always be sold, if one has more than is needed in the family. The surplus can be sold to neighbors, or, if one has the time, they can be peddled in a nearby town or village and a great many nickels picked up in this way.

The turnips not needed for home consumption can be stored away until there is more time for taking them to market. They sell better in winter, and I have sometimes received more money per bushel for turnips than for potatoes.

Another paying crop is pumpkins. Years ago in some sections of the country one could hardly give away a pumpkin. It is different now since the canning factories are here. One finds ready sale for nearly all the pumpkins one can grow, whether a factory is near by or not. The pumpkins should be planted a good distance apart so that there is plenty of room for the vines. They will do much better planted in the open than planted among field corn, as is usually done on the farm.

Turnips should not be grown where pumpkins are planted. The gathering of the turnips will damage the vines of the pumpkins, which are more tender than cantaloupe vines. Late cabbage can be planted there, that is in the spaces where the vines do not interfere. The cabbage cannot be cultivated except with the hoe, and as it need not be harvested until the pumpkin vines are killed by frost, a good crop of pumpkins and sometimes a good crop of cabbage can be gotten from the same ground.

Many other crops for rotation and profit could be grown on these little corner lots, but I am writing for the farmer, not for the market gardener or trucker who is near a large town or city where no available land is allowed to go unproductive.

Jay M. Hummel.

Randolph county, Ind.

ALL-STAR CORN CLUBS.

An interesting phase of the corn club movement is the organization of "The All-Star Corn Club," composed of those who have won the championship of a state or district and all those who since January 1st of this year show a record of 100 bushels per acre at an average cost per bushel of not more than twenty-five cents. In addition to special privileges in agricultural work in the community, these members are also entitled to attend all meetings, banquets, socials, etc., of the districts state, and all-star clubs without written or special invitation.

Members of all-star corn clubs are required to operate not less than two acres of corn and as soon as possible, their work should be extended to the more advanced studies in agriculture and farm management. Field studies in crop rotation, methods of soil building, seed selection, special seed-breeding plants, standardization of grains, cross breeding, ear-to-row tests, should engage some of their time and energy for each succeeding year.

The department of agriculture has in press a circular information concerning the organization of boys' corn clubs and instructions to the organizers. The circular is prepared for use in the northern and western states, where the boys' corn club work is supervised by the office of farm management. The rules and regulations governing the age, acreage, basis of award, methods of measurement, and general club requirements are the same in all states.

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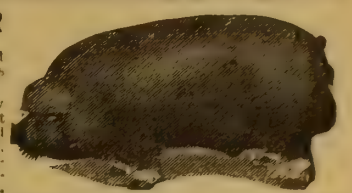
WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser.



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50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

Large horse calendar sent free to horse breeders and dealers.

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300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
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16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d**, for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
J. G. WESTROPE, — HARLAN, IOWA.

AMERICAN GOODS FOR SALE

I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale** as I can spare him. He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
W. M. M'LAUGHLIN, — SHELBY, IOWA.

Two Good Young SHORT-HORN BULLS For Sale

I AM offering one good yearling and one nine-months-old bull for sale. Both sired by **Gypsy King.** One is a Young Phyllis and one is a Young Mary. Price, $100 each. Come and see these at once. Address
M. A. M'WILLIAMS, — WALL LAKE, IOWA.

FOR SALE

Three young Scotch bulls herd-heading material. Address C. & C. T. VAN LINT, Pella, Ia.

18-Mo. STUD COLT FOR SALE

BLACK gray; dam coal black, wt. 2,000; sire dark gray, wt. 2,200; both prolific and regular breeders. This colt guaranteed to weigh 2,200 or better at maturity; he has as much bone now as some ton horses. Price $500. He is the right kind of a stock horse. Also two mares to foal in April. All stock recorded P.S.A. Amos Hudson, Collins, Ia.

Stallions and Bulls

THE Iowa State College is offering for sale one Clydesdale stallion coming two years old sired by Kiroki (12629) 13214, dam Maggie Reffner 13341 by Reffner (12301) 12116; 2d dam Princess Maggie 10880 bred by Colonel Holloway. Also several good young Short-horn and Angus bulls. Address Division of Agriculture, Iowa State College, Ames, Iowa.

Old Homestead Herd O. I. C.'s

ONE of our sows produced the champion middleweight farrow at the late International. Fall and spring pigs only for sale. Funk's and Reid's Yellow Dent seed corn, Kherson oats, graded and tested. Prices right. Bags free. Address
A. M. FOSTER, R 37, Rushville, Illinois.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. FRED RUEBUSH, SCIOTA, ILLINOIS.

Will sell or exchange my Duroc Jersey herd boar, Ensign 2d, 114785, for male or bred sow. Write for description and breeding. W. W. Scott, Calamus Ia.

RED POLLED CATTLE.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
FRANK J. CLOUSS, — Barnum, Iowa.

WILES' RED POLLS

SOME very choice bulls, good even fleshers, sons by Happy Jack 2d and all out of choice milking dams. The breeding is first class and the prices right. LUKE L. WILES, — Plattsmouth, Neb.

TELEGRAMS---WAUKESHA, WIS. CABLEGRAMS---"ANOKA" WAUKESHA

ANOKA FARMS
WAUKESHA, WISCONSIN

SHORT-HORN CATTLE
COTSWOLD AND SHROPSHIRE SHEEP

RAILWAYS:
SOO LINE
CHICAGO & NORTH-WESTERN
CHICAGO, MIL. & ST. PAUL

A LIFETIME HAS BEEN DEVOTED TOWARD MAKING FOR ANOKA A NAME FOR ITS PRODUCTION UNEXCELLED IN ANY COUNTRY

Waukesha, Wisconsin, March 12, 1913.

DEAR SIR:

In last week's letter inviting attention to our public sale of Short-horns on Wednesday, April 2d, we called special attention to the fact that about 80 per cent of the offering is of Whitehall Sultan line of breeding, the greatest improving element in the Short-horn breed.

There is a broad demand for representatives of Cruickshank, Marr and other Scotch families of Short-horns, where they are topped out satisfactorily, and when the animals are as good individually as in pedigree. Whitehall Sultan breeding has had the desired influence in both these directions. Not only is this so in the Anoka Herd, but the improving influence of this line of breeding is evident at all important exhibitions of Short-horns.

The present offering from Anoka includes **fourteen** young and **high-class herd bulls** and **forty cows** and **heifers;** including eight head from Heart's Delight Farm, W. H. Miner, proprietor, Chazy, N. Y.,—undoubtedly the **best lot** ever offered from Anoka.

It is a Scotch offering with representatives of the Clipper, Venus, Victoria, Lavender, Aconite, Broadhooks, Village, Orange Blossom, Duchess of Gloster, Brawith Bud, Miss Ramsden, Missie, Maud, Roan Lady, Emma, Clara, Jenny Lind, Mayflower, Mina, Ury and Beauty tribes.

Immediate sires are Whitehall Sultan, Sultan Stamp, Leader of Fashion. Fond Memory, Whitehall Marshal, Glenbrook Sultan, Anoka Sultan, Sultan Mine, Royal Sultan, Ceremonious Archer, Best of Archers, Meadow King and Primrose Monarch, breeding that **insures individual merit** as the result; and that this is so we offer in evidence the well known show yard record of many individuals included in the sale, and the opinion of this paper's representative who has recently inspected the cattle, given in this issue.

We are anxious that you send for catalog and note the popular line of breeding of practically the entire offering and a comment on each individual, also observe the **class of sires used at Anoka,** and then do us the honor of attending the sale that we may be able to show you Short-horns that are as good as you would expect from their rich breeding.

Yours truly,
ANOKA FARMS, F. W. Harding, Pres.

April 2d, Anoka Farms, Waukesha; April 3d and 4th, Messrs. Sayer, Stanton and Hanna, Chicago. Auctioneers: Woods, Jones, Reppert.

SHORT-HORN CATTLE.

LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Are of the Brawith Bud, Princess Royal, Alexandria and Athene families. Are priced to sell. Come and see or write.

R. E. BALDWIN
Osceola, Clark Co., Iowa, on C. B. & Q. Ry.

Short-Horn Herd Bull

FOR SALE—**Earl of Linwood 306024,** roan, calved Oct. 22, 1907. Sire Matchless Robin by Imp. Cock Robin; dam Imp. Belle of Ordens. Earl of Linwood won 9 in class of 33 bulls at Chicago, 1908. Weighs 2,000 pounds in breeding condition. Absolutely sure, and has a kind disposition. Sires excellent calves. Also 13 months' old red calf for sale. Prices right. Address

F. P. GREENWALT & SON, MT. AUBURN, IOWA

Short-Horn Herd Bulls

LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.

F. H. EHLERS, - - TAMA, IOWA.

ROYAL SOVEREIGN

ONE of the greatest Scotch bulls of the breed is the sire of the young bulls we have for sale. We maintain a herd of heavy-milking cows that are great feshers. We name farmers' prices on the young bulls. Write us. Address

L. Chestnut & Sons Geneva Neb.

THE FARMERS' SHORT-HORNS

MILKING SHORT-HORNS. Cows that have made a pound of butter a day under official tests. Bulls which carry strong milking strains and are good Short-horn types. Have extra good young stock from these animals for sale. Address

J. C. CHARLSON, - Leland, Iowa.

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DISPERSION SALE ABERDEEN ANGUS CATTLE
THE WALTER ROBERTS HERD AT

ATLANTIC, IOWA, TUESDAY, APRIL 8th

60 HEAD---50 FEMALES, 10 BULLS---60

OWING to the death of Mr. Roberts, we are closing out his entire herd which is one of the best in the west. There will be **26 head of Blackbirds, 12 to 15 Trojan Ericas,** and the remainder will be **Queen Mothers, Prides** and **Heatherblooms.** Included will be the prize winning bull **Deceiver,** grand champion bull at Seattle; **Botna Valley Blackcap,** a 2-year-old Blackcap bull, **Black Pier,** a well bred Blackbird bull by Blackbird Barney, and several other well bred Blackbird and Erica bulls. There will be three imported cows, viz: **Imp. Elnora, Imp. Erebena** and **Imp. Percefoam of Stenhouse,** together with all the great cows that were sale-toppers at the leading sales the past few years. There will be **19 choice young heifers in the sale.** The best cattle from the most noted herds were purchased for the founding of this herd without regard to expense. Write for catalog and come to the sale which will be at the fair grounds adjoining the city of Atlantic. Address,

WALTER ROBERTS ESTATE,
ATLANTIC, IOWA.

Cols. Igo and Kraschel, Aucts. Please mention Homestead when writing for Catalog.

CHESTER WHITE SWINE.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. When writing mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa.**

AMERICAN-BRED CHESTER WHITES

50 CHOICE bred sows from prize-winning and productive strains. I have bred for size, stretch and bone and have got them with quality. Also foundation stock here at fair prices to all. Address

ALDEN ANDERSON, ELLSWORTH, IOWA

CROSIER'S O. I. C.'S

LARGE-TYPE, prolific strain, that are practical pork producers as well as prize winners. We offer some especially attractive stock at right prices. Early boars ready for shipment. Address

CHAS. W. CROSIER, - Juniata, Neb.

Philson's Chester Whites

BOARS all sold. Have a choice lot of sows and gilts bred for March, April and May farrow.

S. J. PHILSON, - Harlan, Iowa.

ORME'S PRIZE-WINNING CHESTERS

A few herd headers in July and October boars, a few gilts. A. C. Orme, Nodaway, Ia.

Improved Chester White Gilts.

Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

SHORT-HORN CATTLE.

Choice Scotch Bulls
FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address

C. A. SAUNDERS, - MANILLA, IOWA

2 SCOTCH BULLS

I AM offering two good young Scotch bulls for sale. One is a roan and a Cruickshank Secret. The other is a red and a Bridesmaid. Come at once.

H. B. HARDEN, - CORNING, IOWA.

SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

Short-Horn Bulls for Sale

I AM offering ten head of bulls for sale, the best I ever bred, Scotch and Scotch-topped. Am pricing these bulls where any farmer can afford to buy. Write me quick. Address

PERRY O. BROWN, Lamont, Iowa.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address J. E. BARR, R. F. D. 4, Davenport, Iowa.

1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.

JESSE BINFORD & SONS, LISCOMB, IA.

SHORT-HORN MALES

Yearlings all sold, have a nice lot of 1912 calves, redsand roans. J. T. Swearingen & Sons, Hedrick, Ia.

POLLED DURHAM CATTLE.

Wayside Polled Durhams

Scotch-bred bulls roan 3 years old roan and red calves, 3 to 7 months old. A few choice bred ones. E. J. Augspurger, R. 2, Pulaski, Iowa.

FOR SALE, PURE-BRED

SHORT-HORN bulls fit for service. Got by Grand Champion 357001, and the dams got by Bridegroom 224977, and he got by Imp. Merry Hampton 132572 (73063). E. C. Matthiesen, Keystone Stock Farm, one mile north of Bryant, Iowa.

EGGER'S SHORT-HORNS

THE real beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and address J. F. EGGER & SON, ROCA, NEB.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

G. H. BURGE, - - Mt. Vernon, Iowa.

SHORT-HORN BULLS

AT Pike Timber Stock Farm—1 Scotch Rosemary, all red, 18 months old; 2 Scotch Lancasters, 10 and 11 months old, both red and outstanding good ones; also 2 topped bulls 11 months old, red. Address DAVENPORT & MACK. - Belmond, Iowa

SAYER-STANTON SALE OF
100 SHORT-HORNS
CHICAGO, ILL., APRIL 3 and 4

10 Bulls are Listed, Including the Choice of Mr. Stanton's Great Herd Bulls, Browndale Sultan and Masterpiece.

An outstanding lot of SHOW and BREEDING FEMALES, the get of such noted sires as Masterpiece, Prince Imperial, Selection, Glenbrook Sultan, Linwood Favorite, Ceremonious Archer, Avondale, Faithful Archer, Superbus, Mayflower Prince, Villager, King Cumberland, White Sultan, Leader of Fashion, Whitehall Rosedale, and Cumberland's Ideal.

Cows With Calves at Foot and Rebred. Show Heifers. Breeding Cattle That Will Add Strength to Any Herd.

If you are interested in GOOD SHORT-HORNS this sale should certainly appeal to you. At no sale this year will so many good ones be offered, and the public is cordially invited to attend. The cattle must be seen to be fully appreciated. They are a richly bred, well conditioned lot of breeding Short-horns, the kind that every breeder needs. Write for the catalog. Mention The Homestead and address

THOMAS STANTON, WHEATON, ILLINOIS

Cols. Woods, Jones and Reppert, auctioneers. This sale follows that of Anoka Farms at Waukesha, Wis., April 2d, and precedes that of D. R. Hanna at Chicago, April 4th. Practically 200 head will be offered at these sales, the opportunity of the year to buy the right kind of Short-horns.

HANNA'S OFFERING OF VILLAGER SHORT-HORNS
CHICAGO, ILLINOIS, FRIDAY, APRIL 4, 1913

40 HEAD, 10 Bulls, Sons and Grandsons of the Great VILLAGER, 40

WE OFFER:

Village Primrose 2d, by Villager, the undefeated senior heifer calf of 1912.

Five other daughters of Villager that are outstanding propositions.

Ten show and herd-heading bulls, six by Villager and four by Village King.

All females of breeding age bred to Villager or his sons, Village Denmark and Village King.

More outstanding good things than will be presented in any one sale this season. You will admit this when you see the cattle.

Village Primrose 2d, the Undefeated Senior Heifer Calf of 1912, Included in the Sale.

THIS will be the largest offering of Villager blood that we have ever made. Every bull in the sale is by Villager or his son, Village King, and every female in the sale not sired by Villager is bred either to him or to his sons, or has calf at foot by Villager or his sons, so that no matter what you buy you are bound to get some Villager blood. This bull is today the strongest sire in the country. In last year's show rings he had to his credit the undefeated senior heifer calf and junior champion at the International, Village Primrose 2d, the undefeated junior heifer calf, Village Flower 2d, the undefeated young herd and the undefeated calf herd, an honor never before attained by any sire. You need some of this blood in your herd. Attend this sale. You will not be disappointed. Write for the catalog, mentioning The Homestead, to

JOHN GARDEN - - - - RAVENNA, OHIO

Cols. Woods, Jones and Reppert, auctioneers. Anoka Farms sell at Waukesha, Wis., April 2d. and George J. Sayer and Thos. Stanton at Chicago, April 3d and 4th. The Sayer-Stanton cattle will sell in the forenoon of April 4th and the Hanna cattle in the afternoon.

WHITE BROS.' SPLENDID OFFERING

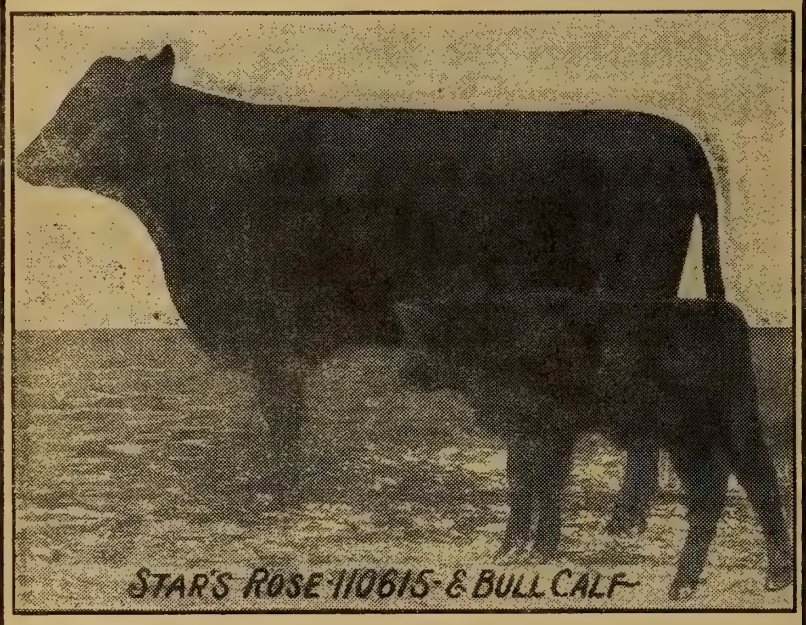
ABERDEEN ANGUS CATTLE

PERRY, IOWA, TUESDAY, MAR. 25, 1913

40 Head—10 Choice Young Bulls, 30 Cows and Heifers

BULLS—3 Blackbirds—one Blackcap, 3 Trojan Ericas, 2 K-Prides, 1 Queen Mother, 1 Pride of Aberdeen.

FEMALES—7 Blackbirds—three Blackcaps, 6 Trojan Ericas, 3 K-Prides, 5 Queen Mothers.



WE ARE selling 10 splendid young bulls that will do to head good herds, a grand good offering of well-bred females. Included will be Star's Rose, the great daughter of that famous grand champion cow, Glenfoyle Rose, and she sells with a splendid bull calf at foot. We have listed the best lot of **Blackbird, Trojan Erica, Queen Mother, K-Pride** and **Pride of Aberdeen** females that has ever left our farm. Eight of these will have calves at foot and others will be right at their calving to **Imp. Everett of Maisemore,** one of the best bred Trojan Erica bulls in the West, or to **Sunnyside Prince,** one of the best Blackbird bulls in the state. Write for catalog at once and come to the sale. Mention The Homestead when writing for catalog.

Col. Silas Igo, Auctioneer. **WHITE BROS., Perry, Iowa.**

HOLSTEIN-FRIESIAN CATTLE SALE

IN THE PAVILION AT **LOGAN, IOWA**

WEDNESDAY, MARCH 26, 1913

I WILL offer for sale 75 high-grade Holstein-Friesian cows and heifers, 10 pure-bred registered Holstein-Friesian bulls and a number of pure-bred registered cows and heifers. These cattle are in excellent condition, good producers and money makers for any farmer who will care for them. For full particulars write to

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POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

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THOROUGHLY POSTED. Fine stock sales booked in four states. Also public sale of farms at auction. Write for prices.

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23 Years' Experience.

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Sale tent free with services. Write for dates

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CHESTER White and farm sales a specialty. I will have a grand offering for my October sale of Chester Whites. Watch for particulars later. Address, for dates or other information,

C. C. EVANS, North English, Iowa.

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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I am conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

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HEREFORD BULLS AND FEMALES

FOR SALE—15 bulls from 12 to 18 months of age. Also some younger bull calves, yearling and two-year-old heifers. Cows with calves at foot or due to calve soon. At prices that will move them. Disturber, Anxiety, Perfection, Earl of Shadeland, Hesiod 2d and other noted bulls appear in the pedigrees. Write for prices. Mention Homestead

W. T. WRIGHT, Mt. Pleasant, Ia.

Hereford Bulls for Ranchmen or Farmers

BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah. Newton, Iowa.

HEREFORD BULLS, FEMALES

I HAVE 6 young bulls by Young Albany and Dale's Eclipse, one an extra good one. I will sell a few cows and heifers all safe in calf to young Albany, a bull I recently sold for $500. Write for prices and description, mentioning The Homestead.

E. W. KREISCHER, Mt. Vernon, Iowa.

Hereford Bulls

I HAVE a good thick yearling at $150. A good 2 year old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, and they are good ones. Lamplighter, Earl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa.

P. W. REECE, R. 3, ELLMORE, MINN.

HAGER'S HEREFORD SALE

AVOCA, IA, MARCH 20, '13

50 HEAD—25 bulls, 25 cows and heifers.

Send for my catalog. Address

A. F HAGER AVOCA, IOWA

HEREFORD BULLS

12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals.

G. G. CLEMENT -- - ORD, NEB.

When writing to advertisers please mention The Homestead.

GALLOWAY CATTLE.

PURE-BRED GALLOWAYS

Bulls, Cows and Heifers for sale at farmers' prices.
JAMES P. MILLIKEN, MEDIA, ILLINOIS
Main line Santa Fe Railroad.

IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address, C. S. Hechtner, Chariton, Iowa.

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MULE-FOOTED HOGS

THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS

FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigree furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio.

YORKSHIRE SWINE.

LARGE YORKSHIRES Choice breeding stock from state fair prize winners. Gilts bred for May farrow to an imported boar $25 each, registered. Pigs, all ages, either sex. Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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O. L. MOSSMAN,

LIVE STOCK AND REAL ESTATE AUCTIONEER.
Pure-bred sales a specialty Write for dates
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LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

A. S. ALEXANDER, V. S.,

MADISON, WISCONSIN

Veterinary Editor The Homestead.

CONSULTING VETERINARIAN. Advice and prescription by mail $1.

When writing to advertisers please mention The Homestead.

ABERDEEN ANGUS CATTLE.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

QUALITY in ANGUS BULLS

Big, black business bull—Ready for you—The kind you want—Both quality and price will please—Come to see.

H. J. HESS
WATERLOO, IOWA.

ANGUS BULLS

I have 9 Angus bulls, with quality and breeding, that I am offering at farmers' prices. One of them is a toppy blackbird calved last May. They were calved from Oct. 1911, to May, 1912. Call on or write
A. G. MESSER, GRUNDY CENTER, IA.

When writing to advertisers please mention The Homestead.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28168. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

AMSBERRY'S ANGUS

TWENTY extra choice young cows and heifers, all so a few young bulls and one aged Blackbird bull for sale. Popular breeding and attractive prices. Address J. A. Amsberry & Son, Mason City, Neb.

DUROC JERSEY SWINE.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
E. S. MAYES, JR., SPRINGFIELD, KENTUCKY

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J. W. STORM BUYS THE GRAND CHAMPION DUROC BOAR, VOLUNTEER, AT $1,500

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STRETCHY, good boned sows in good condition, bred to a big boar. Sows by Alta Chief by Orion Chief, Crimson Hero, and King Pewsey by Col. Grant 2d. Bred to Cronk's Choice dam Lady Critic.
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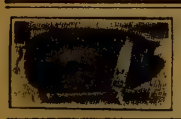

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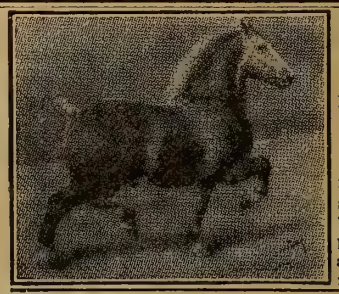

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A FEW JENNETS

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are as familiar as a household word. Present stock unsurpassed by any competitors for quality, action. size, substance stvle or fashionable breeding. Prices very moderate.

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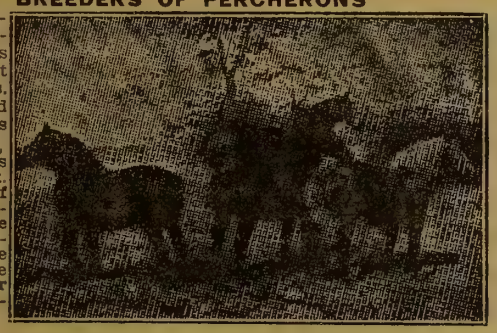
MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS



Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

STALLIONS THAT ARE RIGHT

PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

OLTMANNS BROS., Watseka, Illinois.

Eighty miles south of Chicago on Chicago & Eastern Illinois and T. P. & W. Railroads. Foreign headquarters, Leer, Germany.

PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

GENTLEMAN, the time is at hand when you can no longer stand these scrub, blemished, mean dispositioned horses with bad conformation and loaded with fat. We have sold stallions to customers that like to get rid of that kind. They paid, big, long prices and you can now buy them for most anything you offer. Let us show you the right kind, from 1,800 to 2,200 pounds at the right price. Reliable guarantee and state inspected. We also have a few imported mares in foal weighing from 1,900 to 2,200 pounds. Will pay $600 C. O. D. to match them up. We were born and raised in France and appreciate good horses. Reference, 1st National Bank, Seward, Nebraska. Address

JOSEPH ROUSSELLE & SON, SEWARD, NEBRASKA

Twenty-five miles west of Lincoln.

PARAMOUNT STOCK FARM

BREEDS AND IMPORTS

PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to **Hudson, Iowa,** and see **Crownover's** new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

WILLIAM CROWNOVER - - HUDSON, IOWA

WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of **PERCHERON** stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

PAUL'S PERCHERON PLACE

IMPORTED AND HOMEBRED

STALLIONS, MARES, FILLIES

Barns adjoining city limits, on C. R. I. & P., C. M. & St. Paul and C. B. & Q Railroads. Address

WASHINGTON, IOWA.

FAIRVIEW STOCK FARM

PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

HENRY BECK,, - - LITCHFIELD, NEB.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

GEORGE EGGERT, - NEWTON, IOWA.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP, EOLIA, PIKE COUNTY, MISSOURI

JACKS AND JENNETS

ne of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. Reference: The banks of Lawrence, 40 miles west of Kansas City. Address **Al. E. Smith, Lawrence, Kansas**

IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

SHIRE AND PERCHERON STALLIONS AND MARES

IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

EVERYBODY'S DOING IT! DOING WHAT?

Going to FRANK L. STREAM, Creston, Ia., and buying an imported or home-bred Percheron, Belgian or Shire Stallion and Mares.

Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

Reference: Any bank in Creston.

FRANK L. STREAM, Creston, Iowa

Please mention The Homestead when writing.

The Power Way

Gas power on the farm has changed drudgery into pleasure—losses into profits—increased yield by deeper and more timely plowing, and made a better way of living—it is making boys content with farm life, giving them a chance to broaden out, and not be limited by their own muscle or the inefficiency of horses—it is keeping boys at home.

The big argument to the tractor way of doing things is this: More profits, less labor.

Tractors plow deep—they draw upon more inches of soil fertility—they enable you to handle many times the acres you can with horses.

Tractors take up little room, don't eat on Sundays, and earn money every hour they work.

Tractors are tireless—you don't have to feel sorry for them, they'll work day and night, winter and summer. When you come in at night with a tractor, you're through. You don't have to start feeding, watering, etc.,—you just quit. The more jobs a tractor will do, the more money it will make for you.

RUMELY GASPULL LA PORTE

15-30

is a tractor that's worth while. It will do every job any tractor will do. It will go places and do work other tractors won't. It's so light, easily handled, and powerful you can depend on it for any work.

It is built for comfort, with a large, low, roomy platform and convenient levers. It is light for its power. It turns short, travels well on the road, and replaces 15 horses at the cost of 10.

There's power in the GasPull 15-30. It will do any power job—belt or field—on a moderate sized farm, and is a handy machine for the largest farms.

It combines strength, durability, convenience, power and pull—hauls 30,000 lbs. on roads not too hilly; has 15 drawbar h.p., 30 h.p. at the belt.

The new GasPull 30-60 is the larger size. It is a simple, practical, economical, allround tractor, built for work on large farms.

It has many distinctive features—steel gears running in oil—steel construction throughout. Light for its power, designed by a man with both engineering training and many years of practical expert and repair work in the field with every type of tractor, steam or gas.

Some GasPull Construction Features

Power Plant—The motor is of the two cylinder, four cycle, opposed type. The cylinders are so placed that the weight of the opposed cranks, connecting rods and pistons, is exactly balanced at all times. This, with the alternate firing of the cylinders, gives without use of a big, heavy flywheel, the smoothest running motor plant found in any tractor.

Cylinders—The cylinders are cast right with the crank case, guaranteeing perfect alignment and freedom from vibration.

Crank Case—The crank case is cast in two parts, and together with the cam shaft case, forms a dust-proof housing which prevents dirt and grit from reaching the cylinder or shaft bearings.

Carbureter—Standard carbureter used—practically self regulating.

Governor—Ball and spring governor driven by gears (***not belt***) direct from crank shaft. The GasPull won perfect score at Winnipeg for steadiness of running.

Valves—Are of drop forged high carbon steel, ground to uniform surface, valve seats also ground to perfect fit. Both intake and exhaust valves are located directly in the cylinder heads, eliminating cavities, securing full force of explosion.

Ignition—Jump spark ignition.

Magneto—Positively driven, insuring a hot, accurate spark, and so installed as to be a part of the engine.

Piston—Ten inches long, machine ground to perfect fit. Each piston carries three separate gas-tight packing rings, also machined and ground.

Cooling System—GasPull is water cooled—the gravity or thermo syphon system is used—one or two pailfuls of water per day keeps the radiator full.

Lubrication—Force feed oil pump with six plungers pumps oil through pipes, giving positive lubrication to every working part.

Covering and Cab—The entire machine is provided with a heavy galvanized iron hinged covering, which keeps dust and grit out of the machinery; the bonnet can be opened instantly.

General—Every part is made of the best material obtainable for the purpose. Gears, crank shaft, clutch, axles, etc., are all made with the same care and accurate workmanship—the frame is built of the highest grade channel steel, securely riveted.

Write for the GasPull Story—Data-Book No. 352.
And ask the name of our nearest dealer.

RUMELY PRODUCTS CO.

(Incorporated)

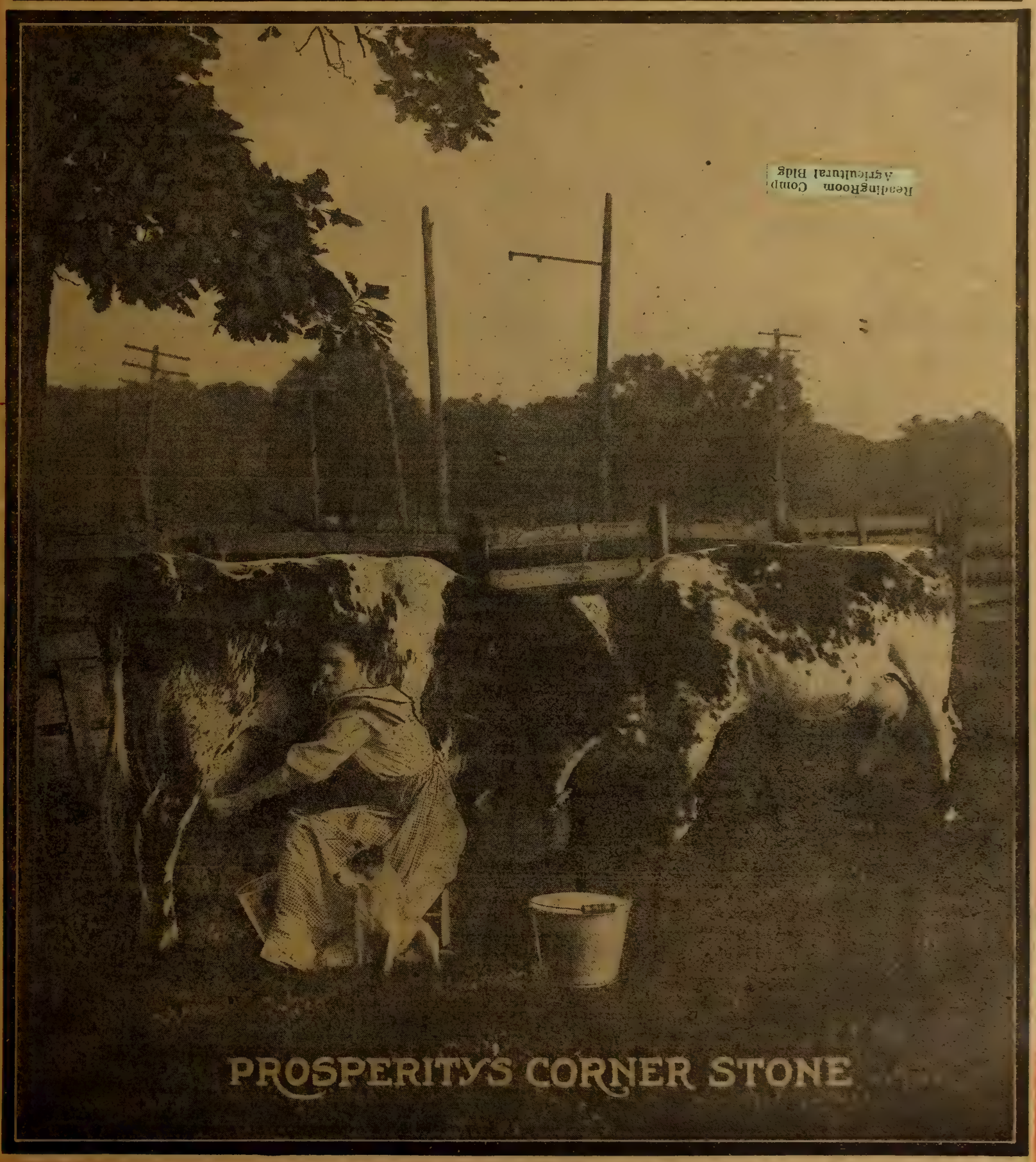
Power-Farming Machinery

LA PORTE, IND.

ReadingRoom Comp
Agricultural Bldg

The Iowa Homestead

VOL. LVIII. NO. 13 DES MOINES, IOWA, MARCH 27, 1913. WHOLE NO. 2894



PROSPERITY'S CORNER STONE

I WANT EVERY READER of IOWA HOMESTEAD to WRITE ME for MY CATALOGS

Wm Galloway

I want **you**—the man who is holding this paper in his hands right now—to write to me **right away.** I'm making a special appeal to readers of Iowa Homestead. I've got **something special** to offer every one of you. I know what kind of farmers read this great paper. They're **my** kind—the up-to-date, wide-awake kind—the kind I like to do business with.

You know what I've done in the **past—saved more money** for the farmers of this country and given them a **squarer deal than any other manufacturer.** That's why I've been able to build up a mammoth business here in so short a time. Now, **this** year I'm going to break all my own records. And I'm going to do it by putting some **special propositions** right up to the best farmers in the country. I'm going to make you some offers that are so amazing that you **simply can't get away from them.**

Over one hundred and twenty-five thousand farmers know by actual experience that

The Only Way Is THE GALLOWAY

And I want **you** to be the **next** one. I wan't to show **you** just what a man can do for you when he will sell you **direct from his own factories to your farm.** I want you to see **for yourself** what an amazing difference it makes in prices **when you don't have to pay one single middleman's profit.** Write me—you won't be under the **slightest** obligation. Just get this wonderful story. I'll show you how you can save hundreds of dollars in the next year alone. **I'll give you the evidence—then let you decide.** Send me the coupon, or a postal or letter, **right now.**

I'm Going to Tell You Some Inside Facts About My Business

I haven't any secrets about my business. The more my farmer friends know about my affairs the better I am satisfied. I've made good—but I know that every bit of my success is due to the fact that every single man who does business with me has found that *he can trust me absolutely.*

I'm a farmer myself—always have been and always will be. I was born and raised on a farm and I know what you're up against when it comes to buying right, *because I've been through the mill myself.*

That's why I got into this business. I used to sell farm implements for other people. I didn't keep at it very long because I saw with my own eyes every day the actual evidence that convinced me that the farmer simply couldn't get a square deal and his money's worth so long as he had to pay a lot of middlemen's profits which were always loaded onto the real value of the goods. Why, I could tell you of any number of cases where the profits were so much greater than the real value of the article that it seems almost unbelievable.

I made up my mind to see if the cheaper and better way wasn't to manufacture my own goods—making them just the best that they could be made—*and selling them direct to the farmers at actual factory cost with only one very small factory profit added.* I started out in a small way because I didn't have much money. But it didn't take long to prove that my faith in the intelligence and buying judgment of the men on the farms was founded on solid rock. My business has been tremendous right from the start. My profits have been small—smaller than almost any other manufacturer in the country. And I'm going to keep 'em that way. I'd rather make a small profit and sell a lot of goods than a big profit on a few goods.

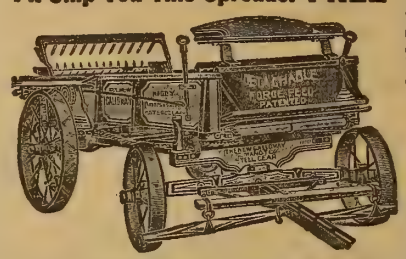
Of course, I've made enemies among the other manufacturers who tell me I am "spoiling business." I'm sorry, because I don't like enemies—but I am working to help you get your goods at a fair price. Naturally the dealers don't like me very well, either, for I stand in the way of their big profits. That's why a lot of them have gone out of their way to misrepresent my business. They can't do that very well any longer, now, for I've made a $5,000.00 Challenge Offer to any man or company in the world who can prove that every word of Galloway's story is not true right down to the last detail, or can disprove any statement or claim I make. I'll send you a copy of this challenge offer when you write me. Besides that, I protect every single man who does business with me with a $25,000.00 Cash Guarantee Bond that makes it just as safe for you to do business with Galloway as with the United States government.

Now, I want you to find out just what all this means to you in *cold, hard cash.* I've enlarged my line tremendously for 1913. I am offering *more* bargains and *bigger* bargains than I have ever been able to before. I want you to get the proof for yourself.

Now Send for My New Book of Bargains FREE!

I'll save you money on practically everything you need for the home, farm or family. When you see the amazing bargains—hundreds of them—that I am offering in this big 144-page book you'll say: "Well, I didn't think such things were possible." Farm machinery, tools, buggies, harness, clothing, furniture, house furnishings—everything at the same amazing, **rock-bottom prices** and on the same **wonderfully liberal plan.** You can't afford to be without this book one single day longer. It's FREE. Send for it right away.

Don't Send Me One Cent! I'll Ship You This Spreader FREE



Use It 30 Days On Your Own Farm FREE!

Not one cent down. No bank deposit. Keep your money in your own pocket. I just want you to TRY my new Spreader, *that's all.* Try it right on your own farm for a whole month FREE. Test it out as you wouldn't think of testing any other spreader in the world. Pile on the manure a foot and a half above the box. Put on all she'll hold! Take the fine powdered stuff or the toughest, heaviest, trampled-down, slough-hay kind from the calf-yard. If it's frozen, so much the better. Take it into your field, whip your team to a *gallop* and *slam it in gear!* Say, I know that's an awful test! So do you. A test no other manufacturer dares even suggest to you. But, do you think for a minute I'd ship you a spreader and let you abuse it that way if I didn't *know* it would make good? I know what I'm doing. I've made the same offer for seven years, and the Galloway today is better than ever. 40,000 farmers have proved it. Besides giving you the best spreader made at any price

I'LL SAVE YOU $25 TO $45

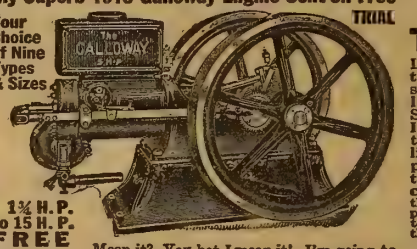
Try the Galloway and see for yourself what it will do. The best proof of all is the machine itself. Eleven patented features all exclusive with the Galloway. Double drive chains furnishing power from both wheels alike direct to the beater and moving the load. The only endless apron force feed, roller-bearing feed spreader built. Makes the Galloway worth $25 more than any other spreader sold today. Low down; easy to load; light draft, two horses will handle it easily. Pull between wheels entirely on the reach, and many other special features. I can't tell them all. Just get my catalog before you buy any other make or style of spreader. Nine different styles and sizes to select from. You are certain to find just the machine you need most for your purpose. Write me. Get my free Spreader Book and valuable FREE book of information, "A Streak of Gold". Write now, today.

Catalog and Regular $1.00 Book "A Streak of Gold" FREE

The only book of its kind in the world. It tells you, in clear, plain English, just the practical facts that every man ought to know about fertilizing. It tells how to handle manure, how to treat it, keep it and use it to the best possible advantage. Worth $100 to any business farmer. Regular price $1—Free to you when you write me. Be sure to send for this famous book today.

Three Months' Power FREE

My Superb 1913 Galloway Engine Sent on Free TRIAL



Mean it? You bet I mean it! I'm going to make you an offer right now that **you absolutely can not afford to refuse.** Listen to this: I'll let you use a genuine, 1913 Galloway Gasoline Engine right on your farm for a whole month absolutely free. If that isn't long enough, just say so and I'll let you keep it for a month or **even two months longer.** I'll let you pick out any one of my nine different models you want, I'll let you put it to any test you want. I want you to compare it point by point with any engine on the market, **and I don't care what the other engine costs.** I'll put the Galloway up against any other engine, absolutely regardless of the price. But, remember, when you buy from me, I'll save you $50 to $300.

Can you beat that? Never! I'll put the whole thing right square up to you. You handle the engine yourself—make it do your work day after day for one month, two or three. I won't send any salesman or dealer around to help you make up your mind. *I know I can bank on my engine and your judgment.* Your word *goes.* After you have had the free trial if you think that there is one other engine on the market at any price that is anywhere near the Galloway in quality, workmanship or actual performance, just send it right back, and *I'll pay the freight both ways, so you won't be out a single penny.* Or, if you find that the Galloway is so far ahead of your expectations that you simply can't afford to get along without it, you may keep it and on the squarest, straightest and most liberal offer that you or anybody else ever heard of.

Now, you can't beat that offer anywhere. No man living can go further than I have to show my perfect confidence in my goods and insure the *absolute satisfaction* of every man I deal with. My engines have got to be so perfect in every way that they *simply sell themselves,* that's all. My big, beautiful engine catalog is yours for the asking, FREE. Write for it today!

FREE SERVICE BUREAU!

I've got a bunch of engine experts that you can't beat anywhere in the country and their services are at your command *absolutely without charge.* They'll help you solve every one of your engine problems, tell you just which engine is best suited for your particular purposes, how to fit up your power house, how to handle your engine and use it to best advantage. This service is free to you always, whether you buy an engine from us or not.

Get My Engine Book and 90-Day Offer FREE!

Now don't miss this splendid offer. Don't lay down this paper—don't even turn the page until you have sent for this splendid Engine Book and full explanation of my new 1913 plan. Just fill out the coupon and mail it today—or drop us a postal. Find out the real facts about gasoline engines. Don't take anybody's word; post yourself! Send the coupon, or a postal or letter, for this valuable book and my Special Engine Offer, NOW.

Let Me Send This New Galloway Sanitary Separator On 90 Days' TRIAL FREE

I'm not even going to try to tell you about the sensational new Galloway Sanitary Separator. I couldn't. It's so far ahead of anything in the separator line that has ever been placed on the market that there is **simply no comparison.** It's the latest and greatest product of my factories and I am prouder of it than anything I ever turned out.

But I am not going to ask you to take my word or anybody else's word on the separator question. I am going to give you a chance to find out the real facts for yourself.

Listen: Right at the start

I'LL SAVE YOU $25 to $50

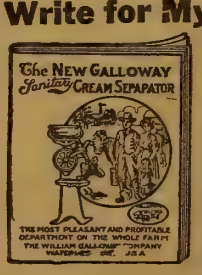
Then, I'll let you try my New Improved Galloway Sanitary any way you want.

I'll send you one of these wonderful new separators, any size you want, right to your farm for 30, 60 or 90 days' trial absolutely free. I want you to test it out every way that you can think of. Compare it with any other machine that you know of, no matter what the price. If anybody else is trying to sell you a separator, make them let you take their machine and set it right up by the side of mine. Take the skim-milk from one machine and run it through the other—that will tell the story! Then examine its wonderful patented features. See how *simple* it is—how *easy to operate* and how very, very easy to clean. See how perfectly it is made in every single part. And notice the new improved features that make it the most sanitary separator built.

Take a month if you want to or keep it two or even three months if you prefer. Then decide. I won't hurry or bother you in any way. If you think that there is any other separator in the world at any price that you would rather have than the Galloway, just ship it right back to me at my expense I'll agree right now to pay all the freight *both ways,* so that you won't be out a penny or under the slightest obligation. If you decide not to keep the separator after having had the free trial.

If you decide to keep it, I'll guarantee to save you from $30 to $50, besides giving you a separator that absolutely has no equal in the world at any price.

Write for My Big 1913 Separator Book FREE



Get my new 1913 Separator Book *right away.* Pick out the machine you want—tell me and let me send it to you for three months' use and *trial free.* I want you to have my new 84-page Dairy Cow Book. It's chock full of valuable information that will help you make your dairying more profitable. Regular price $1.25, but free to you if you send for my separator catalog. Just use the coupon or a postal or letter. Write me TODAY sure.

Fill Out the Coupon—Get My Four Great Books—All FREE!

I'm ready to put money right in your pocket. I'll **prove** that I can do it. You are going to buy **something** that I have to offer you, within the next few weeks. Get my prices—learn my plans **before you spend another dollar for anything for the farm or household.** I won't take a cent of your money until I have proved to you that every word that I have said to you is absolutely and positively true. You can use a postal or a letter if you want to, but the coupon is handiest. I'll send you any or all of my great books free.

GET MY SPECIAL 1913 PROPOSITION SURE!

I've been working on this plan for four years. **It's the biggest, finest thing I've ever offered.** I can tell you how you may actually get a Galloway Engine, Spreader or Separator **either partly or entirely without a cent of cost to you.** No canvassing or soliciting—no work at all. Just the cleanest and most liberal co-operative offer that you or anybody else ever heard of. I'll tell you all about it in a **personal letter** when you write for my free books. **Get this sure!** It won't take you a minute. It may mean hundreds of dollars to you this year alone. Write for the free books and my Special 1913 Proposition **before you do another thing.**

WM. GALLOWAY, President WM. GALLOWAY CO.

107 GALLOWAY STATION, WATERLOO, IOWA

We Carry Machines In Stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg, assuring prompt shipment.

Send This Coupon or a Postal or Letter NOW

MAIL FREE COUPON NOW

Wm. Galloway, Pres. WILLIAM GALLOWAY COMPANY,
107 Galloway Station, Waterloo, Iowa

I want to know all about your Special 1913 Offer. Tell me all about it and send me the books I have checked below, by return mail, FREE.

- ☐ BOOK OF BARGAINS—A big 144-page book in two colors with a thousand or more bargains in implements, buggies, harness, furniture, rugs, carpets, etc. Everything for the home and family.
- ☐ MANURE SPREADER CATALOG—and valuable book of information "A Streak of Gold."
- ☐ ENGINE BOOK—and my book "Proof of the Pudding."
- ☐ SEPARATOR BOOK—and my new, big, illustrated Dairy Cow Book, FREE

Name .....

Town .....

R.F.D. ..... State .....

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 27, 1913.

Common-Sense Treatment of Dairy Cows

A Balanced Ration Sensible From the Standpoint of Animal Thrift and Pays Larger Profits Always.

EFFICIENCY in dairy cows consists in the ability to produce a maximum flow of milk and to bear good calves of the desirable quality and type. For the production of a maximum flow of milk the cow must be well fed; she must be maintained under conditions that make for quiet and contentment; all her energy must be devoted to the yielding of a large amount of high-testing milk.

HAPPINESS AND PROSPERITY IN THE YARD MEAN PROFIT TO THE DAIRYMAN.

Some milk producers barely supply their herds with a maintenance ration and yet they wonder why their animals do not produce more milk. The good dairy cow is usually an industrious worker; in case she is not furnished enough food materials from which to manufacture milk she draws upon her bodily resources and still continues her yield at the expense of her general health and vigor. The inferior and emaciated condition of many of our dairy animals is directly traceable to this cause. The cows will not shirk their work and so they continue the elaboration of milk from materials drawn from their own bodies. How can this condition of malnutrition be remedied? Simply by supplying the milking herd with liberal amounts of a balanced grain and roughage ration. It is cheaper in the long run to feed a cow up to capacity than it is to barely maintain her on a starvation diet, as her increased yield will more than pay for the additional feed as well as returning a net profit.

Too many, it must be admitted, feed an unbalanced ration that features the use of excessive amounts of corn stover and timothy hay supplemented with a surplus of ear corn. They endeavor to correct the deficiency in quality of the ration by supplying the herd with an abundant quantity of this unbalanced ration. They cannot understand that a deficit of protein cannot be balanced with a surplus amount of carbohydrates or fat. They fail to appreciate that there is a necessary connection between the nutrients in the feed and those in the milk. They seem to think that the cow is a machine that can turn any sort of raw material into milk. If a cow were fed carbohydrates only she would die in a short time; if she were fed fat only she would die in a short time; if she were fed protein only she would finally die as a result of poor nutrition.

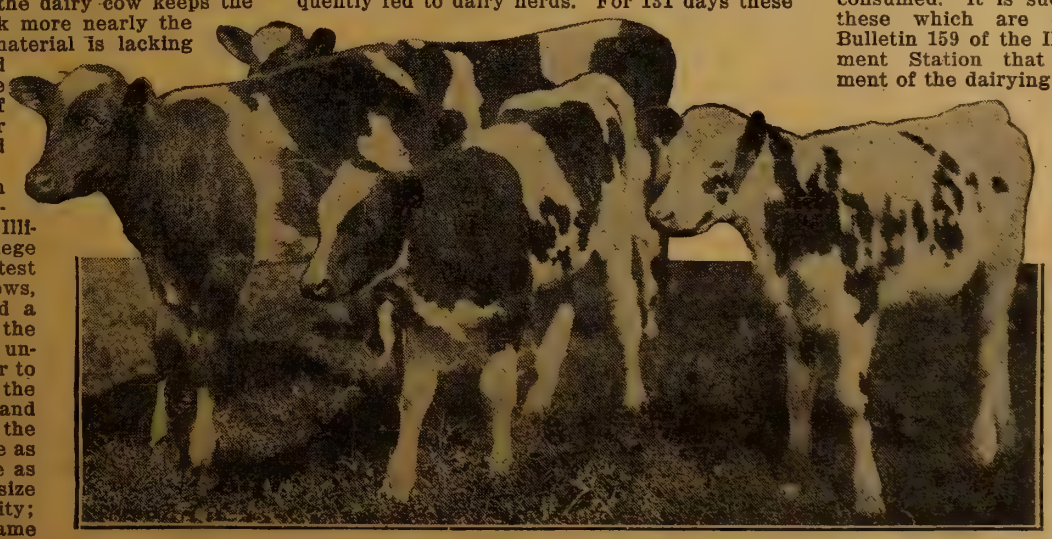
It is on account of the cow's need for certain amounts of carbohydrates, fat, and protein for the continued manufacture of milk that she is fed what is called a balanced ration. A balanced ration is one in which each of these food materials is present in just the right proportion and amount to meet the needs of the animal. Unlike the mason who in case he is short of cement can use more sand and build with a poorer mortar, the dairy cow keeps the proportions in her milk more nearly the same and when one material is lacking the milk flow is limited by the deficiency of the element irrespective of how much of the other materials is at hand and available.

In order to obtain some definite, brass-tack information the Illinois Agricultural College recently conducted a test with twenty dairy cows, ten of which were fed a balanced ration, while the second ten received an unbalanced ration in order to determine the effect of the feed on the production and physical condition of the animal. The cows were as nearly alike as possible as regards production, size and general dairy quality; they were kept in the same barn and managed exactly alike with the exception that they were fed on different materials. Previous to starting the feeding trial the animals had all been fed the same well-balanced ration of clover hay, corn silage, bran, corn meal and Buffalo gluten feed. On this ration all the cows produced well and were in good flesh and physical condition at the beginning of the experiment.

The animals in Lot 1 received daily thirty pounds of corn silage, eight pounds of clover hay, four and two-thirds pounds of gluten feed, and three and one-third pounds of ground corn. This constituted a balanced ration that contained one pound of digestible protein to six pounds of digestible carbohydrate and fat. This ration was thought to be particularly adapted for cows yielding about forty pounds of milk daily. Lot 2 was fed thirty pounds of corn silage, five pounds of timothy hay, three pounds of clover hay, and eight pounds of ground corn per animal per day. This ration contained but one pound of digestible protein to eleven pounds of digestible carbohydrate and fat; which is far too low a proportion of protein for even a dry cow; yet such unbalanced rations are frequently fed to dairy herds. For 131 days these two rations were fed to the respective groups of dairy animals. At the termination of this period the animals that had received the balanced ration were in an excellent condition, while the cows that had received the unbalanced ration had greatly depreciated in vigor, flesh and condition. The lack of protein in the ration and the lack of palatability in the timothy hay which caused the animals to eat relatively little of it explain this depreciation. Cows fed such unbalanced rations can neither keep in good physical condition nor can they consume the necessary large quantities of feed which go with bumper milk production. During the first week of the test the cows receiving the inferior ration produced 5.8 pounds of milk per day less than did their well-nourished mates; during the seventh week this difference in daily production was increased to 13.2 pounds while the last five days of the trial it amounted to 12.2 pounds of milk per animal per day. The average difference per cow per day for the nineteen weeks was 10.65 pounds, and the total difference in milk between the two lots of animals was 12,553.2 pounds of milk. In other words, six and one-half cows receiving the balanced ration produced as much milk as nine cows that were fed the unbalanced menu. Ten thousand, five hundred and eighty pounds of milk at $1.50 per 100 would be worth $158.70, the loss on nine cows for 131 days, which is $17.63 per cow, or practically thirteen cents per cow per day. And in the face of these results many of us wonder why our dairy herds are unprofitable when the animals are being ill nourished on unbalanced rations. It is noteworthy that in this test the cost of the two rations was practically the same. The results as regards fat production were analogous with those obtained in total milk yield. Lot 1, which was fed the balanced ration, produced 359.56 more pounds of fat than did Lot 2, which was fed the unbalanced ration. Figured at twenty-five cents a pound this amount of butter fat would be worth $89.75.

TYPE COUNTS FOR MUCH.

The total amount of feed consumed by Lot 1 was 59,840 pounds and that used by Lot 2 was 52,720 pounds, which indicates a difference of 7,120 pounds or 13.5 per cent. Despite the fact that Lot 1 ate the more Lot 2 had the advantage in that its ration contained a higher percentage of grain. However, Lot 1 consumed 12.5 per cent more digestible nutrients than did Lot 2. In consequence the animals in the latter group produced a portion of their milk at the expense of their body weight and general condition. Hence the fact is developed that the animals receiving the balanced ration were able to consume 12.5 per cent more nutrients and as a result were able to make 33.7 per cent better use of the total nutrients consumed. It is such conclusive results as these which are described in detail in Bulletin 159 of the Illinois Agricultural Experiment Station that make for the improvement of the dairying industry. It is hard to believe that any one knowing of the striking difference found by this experiment will continue to feed an unprofitable and unbalanced ration to his dairy matrons. Under existent conditions where intensive management and common-sense practice are pursued the dairy farmers of Wisconsin, Illinois, New York, and the other milk-producing states should be reaping attractive returns from their milk farms. Let us hope that the 10,000-pound milk cow has come to stay. Let us work for a greater



WELL-FED CALVES MEAN NORMALLY DEVELOPED DAIRY COWS.

(Continued on page 13.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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RUSHING HORSES INTO HARD WORK.

Whenever spring is late in coming and field work cannot be started until after the usual time, there is quite a tendency to rush into work with a vim when the fields do get in condition. In the hurry to get spring grain sown and started and something done towards getting corn ground in shape for planting, a great many farmers forget all else, horses included.

Everyone knows that the horse wintered in the usual way is unused to heavy work when spring comes. As the saying is, he is soft. A man gets that way himself during a winter of comparative idleness, and should he be put into hard work with a rush and kept at it from early morning to late at night, no doubt he would suffer the ills, the lameness and soreness that many horses suffer that have been "shoved into the collar." Although the need of pushing the work with all haste may seem necessary at the time, we find, a little later on in the season, that a day lost has meant very little difference in the crops. It takes a great deal of pushing ahead to gain a day in two weeks of time spent in the field, so we see that what is gained by half-crippling the teams in the rush of spring work really amounts to little in the end, except that the horses still show the effects of it and may always show it to some extent.

Paying little attention to the horse's shoulders is often responsible for much injury during the spring working season. Shoulders are soft and need toughening to the collar. This must be done as easily as possible and with a collar that fits. A little carelessness in this regard may even put a horse out of use for several days, or put the shoulders in such condition that it is inhumane to keep on with the heavy work. A merciful man is merciful to his beasts.

CONSERVING HUMAN MUSCLE AND NERVE FORCE.

This paper will ever be found advocating the easy way to bring things to pass in home or farm affairs. After all, the supreme good that can come from the application of science to practical farm affairs is in the lessening of the amount of labor involved in the performance of given tasks. To this end we commend the foresight exhibited by a Nebraska subscriber as given in the following communication:

We came to our Nebraska ranch about two years ago. Before that time one family had lived here for thirty years. During those thirty years no one can estimate how many hundred pails of water were carried from a never-failing spring which is located down hill from the house and fully a block distant, necessitating carrying water up a steep hill for a block. Immediately above the house and about the same distance was another spring fully as large and never failing. This spring was allowed to overflow the hill and garden and run down into the yard, in the springtime making a constant stagnant mudhole between the house and barn.

The first year we allowed things to go on just as they had for the thirty years previous. The second year the husband complained of carrying so much water up hill, especially on wash days. The wife complained of having always to tell him the bucket was empty. They both complained of the constant, stagnant mudhole. Complaining brought about thought and thought instigated action, which led to investigation. Consequently we now have the upper spring piped into our kitchen and a sink and drain are installed. The drain runs directly to the creek below the house. The spring is high enough above the house to force a large stream at all times and without outside force, such as engines, etc. On cold nights the water runs all night to keep it from freezing.

My husband and his hired man did all the digging and plumbing—during the winter, too—the only cost being for pipes, sink and faucet. Just now they are extending the pipes to the hog house and barn. What this will mean when thirty sows have their young in the spring only those can know who have carried water and slop to that number. Our achievement is the wonder of the neighborhood. Many come to see and investigate it. The old timers who live along the creeks and have springs all about them are becoming interested and investigating their own conditions. We therefor expect before many years to see many of our neighbors with the wonderful soft spring water at their command by turning the faucet.

While it may be true that those who have access to living springs for their water supply are in the great minority, yet out of practical experience we can most strongly endorse the expenditure of any reasonable sum of money so that water in the home is convenient at all times as well as the supply for live stock. In this day of windmills and gasoline engines and underground pressure tanks and inexpensive water towers there is little excuse for carrying water up hill to the home or, indeed, for doing any carrying at all. The installation of a good water system, we believe, will do more than can be accomplished by the same amount invested in any other way to cut out drudgery in the home as well as in the choring part of farm work. We hope that the above communication from Mrs. F. B. Heilman will be the means of stirring many of our subscribers to some kind of action that will accomplish the result brought about in this case.

RAPE A PROFITABLE CROP.

An Illinois subscriber, who has had considerable practical experience in growing rape, gives his views on the value of this crop in the following communication:

Rape is not as generally grown as it should be. It can hardly be surpassed as a pasture and soiling crop for hogs and sheep, or even for cattle, especially when a quick-growing, annual crop is desired. It offers summer and fall pasture of the highest order with spring seeding, something that can be claimed for very few other plants. It can be grown on almost any soil that will produce a good crop of roots, and can be depended upon to furnish very heavy yields of most excellent food.

In feeding value it is quite as good as clover, and can be used for either growing or fattening purposes with success. Rape is a feed that stock like exceedingly well after they have once become accustomed to it, and the results from its use are always pleasing. These facts I would not dare state had I not had experience in growing and feeding this plant.

Rape can be sown any time after spring weather has permanently arrived, as early as most all grain crops, and thereafter until the end of summer. This wide range of seeding allows almost continuous soiling from this one crop from early summer to the end of autumn. The plant usually requires from eight to ten weeks to complete its growth. It may be fed or pastured as soon as its development will justify, and if not cut or pastured too closely it will grow up a second and even a third time.

In seeding the crop broadcast, from three to five pounds of seed are required to the acre. If sown in drills, from one to two pounds of seed will be sufficient. The quality and condition of soil will govern the exact amount, lighter seeding being used on rich and clean ground. The condition of the seed bed should be fine, firm and moist. A light top dressing of manure may be applied and the crop responds very readily to such treatment. As a soiling crop it is desired to secure all the growth possible, so the more perfect the conditions are made the greater will be the results.

There are several varieties of rape, but the one which possesses the most economic value is the Dwarf Essex. The seed may be secured from most, if not all, seedsmen. The crop is worthy the attention of any farmer who wishes a good supply of valuable summer soiling feed.

Rape is an ideal crop to grow in feed yards and small pastures adjacent to the farm buildings. We have in mind one instance where for five years in succession an eight-acre field sown to rape pastured from fifteen or twenty brood sows with their litters. In addition to this, young cattle were pastured on this field for a considerable period during the late summer and fall months. Where it is the intention to hog down corn an ideal plan is to sow rape early in the spring so that the hogs can alternate between the corn and the rape field. This plan contributes wonderfully to the thrift of fattening shoats and it also lessens the cost of making a pound of gain.

WHAT INTELLIGENT ROTATION CAN ACCOMPLISH.

Although plans for the 1913 cropping system are now mature it may not be amiss to call attention to the natural advantages that come as the result of carrying out a sensible system of rotation. The subject is presented in the Wisconsin Institute year book by Mr. Fred Stubley, who, among other things, says:

Intelligent rotation can be made to accomplish many things that are not secured by the haphazard methods now employed in this country. If systematically carried on it can be made to destroy a large number of troublesome weeds. If, for instance, a three-year rotation is practiced for a few years, the land can be nearly cleaned of weeds, providing one is careful in selecting the seed sown and no weed seed is carried to the fields in the manure, and the same practice will dispose of the wire worm and white grub. This short rotation not only tends to clean the land, but also improves its physical condition and conserves and adds nitrogen and humus to the soil.

To preserve the productive power of the land, fertilizers or manures must be applied or the rotation will not give the highest results.

Rotation may be made to economize plant food. Since plants vary in their power to reach and appropriate nourishment, the rotation may be so arranged as to grow those plants which have the least power, or those which make but little demand on the soil when the land is least fertile.

The fertility in a wise rotation is used, not carried along as useless capital. Successful agriculture consists quite as much in taking fertility out of the soil judiciously as in putting it into the soil.

In planning a rotation where circumstances allow freedom of choice, the object should be to change inorganic elements into organic substances, that is, to get the largest possible crops with the largest net results. Nature provided plants to feed animals, animals to produce fertility, fertility to feed other plants. This rotation preserves the elements of the productive power, while they are continually changing their form and character.

In addition attention should be called to the advantage in rotating crops that comes from the destruction of insect pests. This is true in the case not only of the cereals, but it is doubly true when corn is the main crop. In such a case the corn root worm multiplies year by year its devastations resulting in systematic root trimming late in the season and in turn causes the crop to lodge. We concede that it has been a little difficult to carry out certain plans during the last two years on account of the high price of clover seed, but the situation is being met in some instances by a change from corn and oats to winter wheat. Although wheat is in the list of soil-robbing crops, yet a change of this character is more to be desired than is the lessening of the crop which comes from rank weed growth or injury from insects.

BENEFITS AND PROFITS FROM DRAINING LAND.

In a farmers' bulletin recently published by the United States Department of Agriculture the question of farm drainage is discussed in its various details. Among other things mentioned is the enumeration of the benefits that are ordinarily derived from the draining of land and the estimation of probable profits. According to this bulletin drainage makes lands that are uncertain in production produce crops every year. It brings into cultivation lands otherwise worthless. Not only can swamp lands be made tillable, but on farms where there are places too wet to cultivate drainage will improve the land and cause it to produce good crops.

Drainage improves the physical condition of the soil by making it more granulated, porous and friable. Thus, stiff soils are more easily handled, the plants have a greater feeding area, and the available moisture in the soil is increased. Soils also absorb more of a rainfall, thereby decreasing erosion and damage by floods.

Drainage warms the soil. The evaporation of moisture by the sun requires heat which, if the excessive moisture is removed by drainage, is used in warming the soil. This is noticeable in the North, where the planting season is from one to two weeks earlier on drained than on undrained land. The danger of damage by frost both in the spring and in the fall is reduced. The warming of the soil by drainage causes the seed to germinate more readily, thereby giving a better stand of crops and causing the plants to grow more promptly.

Drainage aids in the preparation of land and the tillage of crops. Land can be plowed earlier in the spring and is better pulverized. Crops can be cultivated sooner after a rain and by closing small ditches with tile drains more improved machinery can be used and the cost of cultivation decreased.

Drainage improves the health conditions. Perhaps there is no better illustration of this than the number of mosquitoes that were found in parts of Illinois and Iowa when first settled. When the land was drained most of the breeding places of the mosquitoes were removed and with them the consequent malaria.

It is not uncommon for lands too wet for cultivation to produce when drained sixty to seventy bushels of corn and oats or from one bale to one and one-half bales of cotton per acre. On a great deal of land the increase in yields is often from 25 to 100 per cent. In some years on some wet soils drainage may not pay, while on others it may be necessary in order to save the entire crop. By increasing the yields and decreasing the cost of cultivation, the profits and the value of the land are often doubled.

We have met thousands of farmers who have used tile drainage, but in no instance where the work was properly done has he found anyone dissatisfied. Farmers in the east who have used tile drainage state that it is one of the most profitable investments made on the farm. A planter in South Carolina with three years' experience stated that tile drainage had made land that never produced a crop before grow heavy crops of cotton, corn, oats and cowpeas, and on the other land had increased the yields and decreased the cost of production.

Perhaps the situation is best summed up, however, in the following statement of a farmer with thirty-two years' experience in Illinois who owned 1,000 acres of land, all of which he had drained: "On soils needing drainage, no farmer can afford to be without it."

CARE NEEDED IN APPLYING FRESH MANURE.

Little advice is needed along this line by the man who operates a manure spreader. These machines do the work of spreading so completely that the only precaution that need be taken is to use only a light coating on thin lands. In applying fresh manures with a fork on lands that are sandy in character more harm than good can be accomplished the first year by using it too freely. Rough manure plowed under only increases the porosity of such soils, thereby making them so loose that under ordinary circumstances they are apt to dry out.

Even on the loams and in some instances on clay soils the plowing under of a heavy coating of coarse manure will not accomplish the first year what it is intended to accomplish. In such instances the manure acts as a blanket beneath rather than above the surface-feeding rootlets. This being the case capillary action is largely confined to the lower soil, the channels being broken by the rough manure so that the moisture supply cannot rise to the surface. We repeat that the danger of doing harm in this case is not very great where the spreader is used, but we have known instances where a corn crop has been cut squarely in two by applying fresh manure heavily instead of increasing the crop as was the original intention.

It is a well-known fact that the rotting of farm-yard manures means that from one-third to one-half of the weight of the humus material is lost and it frequently happens that almost the same percentage of the fertility element disappears as the result of the decomposition process. This being the case the sensible thing to do is to more and more adopt the policy of getting the manure to the field in fresh condition, particularly so where lands are almost level, but as said before, the precaution against plowing it under in too large quantities must be taken and on the other hand the loss from the rotting process should, wherever possible, be avoided. The matter sums itself up into the necessity of

applying it thinly and of keeping it as near the surface as possible because of the tendency of the fertility elements to leach beyond the reach of the the busiest feeding rootlets.

ENDORSES LIVE STOCK FARMING

An Illinois subscriber points out some of the natural advantages that characterize a system of farming that includes live stock raising as combined with grain growing. Among other things he says:

The farmer who does not grow stock can hardly feel that he has attained the full dignity of his occupation. There is a charm about a herd of carefully selected cattle; few living things are more graceful or pleasing to the eye than well-bred horses, the shepherds' flocks have been with us since the beginning, and the grunt of the fat porkers is satisfying to the farmer's ear.

The stock raiser is a man of affairs. The business demands good judgment and quickens the powers of perception. His interests and inclinations take him beyond the confines of his own fields to the markets of the world where he comes in touch with the shrewdest men in the business, thereby broadening his horizon and widening his experience.

To maintain soil fertility one must return to the land those elements which have been extracted by the crops. The best way to do this is by applying barnyard manure. The farm that is well stocked has the fertilizer at hand when the time for application arrives. So the profits from stock growing are twofold. They bring good returns in dollars and cents and leave behind them valued fertilizer.

Some farmers will reach success with one kind of stock, some with another. All men are not successful with horses or cattle or hogs or sheep. A few men will fail with any kind of stock. They lack the touch that makes it profitable. The farmer must determine, and largely by experience, the kind of stock he can handle on his farm most profitably and make a specialty of that kind. A man must have a love for the work and the kind of animal he handles if he would make a large success of the business.

It cannot be denied that the care and management of live stock calls for a very different kind of talent than is put into play under a system of straight grain growing. In the very necessity of the case a stockman becomes a student of blood lines and this applies whether he handles pure-bred stock or not. He very quickly learns which are his best breeding cows and which are the most profitable brood sows or the best mares and if anything like good sense is shown, the poor ones are gradually weeded out and the best ones retained. The carrying out of this policy we claim contributes to better manhood and it creates a more wholesome atmosphere in which is reared the farm folks of the future.

BE SURE OF THE SEED CORN.

We would like to jog the elbow of every one of our readers and ask about the condition of the seed corn. The subject has been a dead one this spring inasmuch as it has not been the topic of much discussion in the public press. Whether the excellent condition of seed corn generally justifies this indifference remains to be seen, but for our part we propose to admonish our readers lest an unwarranted degree of confidence in the soundness of seed should lead in the end to an enormous loss.

To see a farmer with a pair of horses that may be worth $400 or $500 spending his time cultivating half a stand of corn is a sight that does not inspire respect for the business judgment of the fraternity as a whole. This simply means that he throws away practically half of every day's labor and someone has called attention to the fact that in doing so those who care for the household waste half of their time in preparing food for such an individual. Knowing as we do the strenuous character of farm work during the spring and summer months we cannot help but regard it almost in the light of a tragedy if day after day men are to spend long hours in the field and to end up by running chore time well into the night if in the end the fruit of all this labor must be cut squarely in two by a little indifference at the beginning of the season.

We are in favor of giving the seed corn a good test. We believe in testing it in the ear just as much as we have ever believed in that policy, even though it is not talked about as much as formerly. If a man has 1,000 ears saved for seed it will only take a few hours to put six kernels from every ear in the tester. In a week if conditions are at all favorable for growth the weak, dead and strong kernels will show up, thereby giving opportunity to discard the weak and the dead and for saving those that are strong. The results will justify putting this amount of labor on it, even though only fifty ears out of 1,000 are discarded because that in itself would mean the loss of three or four acres. We believe that an actual test will demonstrate that the corn is in much better condition than it was last year, yet there is always enough weakened seed to justify making a good test.

DESCRIBES IDEAL SEED BED FOR CORN.

Those who have taken pains first in selecting good corn and secondly in giving it a thorough test, can well afford to carry the matter one step further and put the seed into well-prepared ground. What constitutes a well-prepared seed bed might in its minor details be the proper subject for debate, although the fundamental principles involved in preparing the seed bed we believe to be agreed to by all good farmers. These principles are outlined by a Missouri subscriber, who says:

The importance of properly preparing the seed bed for corn cannot be too strongly emphasized, for the success of the crop depends to a very great extent upon the rapidity and vigor with which the seed starts into growth. Corn gets the right kind of a start when planted in fine, mellow, soil, rich in plant food, and supplied with a moderate amount of moisture. The seed will not germinate readily if placed in coarse, lumpy soil.

If the corn is planted in a fine and mellow seed bed, germination takes place quickly, and the young plants get plenty of food, because the roots come in contact with more of the fine earth particles, on the surface of which the moisture and plant food are found. When the young plants are thus situated they are able to withstand adverse climatic conditions.

A very large proportion of corn this year will be grown in ground that was in corn last year, or, in other words, on cornstalk ground. It is in the management of this ground that some farmers fail to produce as good results as they desire. The proper thing to do with cornstalk ground is to first cut the stalks with a stalk cutter, and then disk the ground at the earliest opportunity, as a preparation for plowing. This may be new doctrine to some, and I will, therefore, go somewhat into details, showing why I recommend it and practice it on my own farm when I intend planting corn on land that produced a crop of corn the previous year.

After the frost has gone out of the ground in the spring, and two or three heavy rains have come, if dry weather follows, a crust will be formed on the soil. This evaporates the water far more rapidly than many who have not had a good deal of experience and been a close reader and observer will believe. Of course, some one will say, what's the difference? We have plenty of rain, plenty of water in the soil, perhaps too much. Why do you recommend disking the soil before plowing?

For three reasons: First, to prevent clod formation; second, to restore the connection between the plowed furrow and the under soil, and third, to kill weeds.

The question may be asked, "How does this prevent clod formation?" Go into a disked cornfield, especially if the land is heavy and has a super-abundance of moisture, along in April when the weather is warm and a southwest wind is blowing, and notice how the cornstalk land is cracking. It is losing moisture very rapidly, therefore shrinking, drawing apart, leaving cracks in which a man could put his hand, and small cracks even in drier soil. Now, when this land is plowed without disking, these cracks simply form the outlines of many troublesome clods.

Corn, as well as the other grains, requires a solid seed bed, which is made by cultivation after plowing. The main use of the disk and harrow is to compact the lower portion of the furrow slice and to throw loose soil on top, in which the seed will find easy germination.

While this is being done weeds are germinating, and by subsequent operations, they are being killed; which, if left alone, will bother all summer long and rob the soil of much available plant food.

It would be difficult to place too much emphasis on the importance of some of these suggestions, particularly in regard to the disking of corn ground preparatory to plowing it. It must be remembered that corn ground well disked before being plowed is much more easily brought into a firm, fine condition with a harrow or other types of tillage implements after it is plowed than if the baked surface is turned under and made to form the bottom of the furrow slice.

We endorse the idea here advanced that a mellow seed bed contributes to the rapid growth of the young roots and leaves because a crop that makes a strong start is invariably the one that maintains its lead throughout the growing season. If hardship comes it in variably means that the backward crop suffers most.

SHARING IN THE FARM PROFITS.

From time to time various phases of the farm help question have been discussed in these columns. Year after year we have witnessed the growing scarcity of labor and up to the present time the only solution we have to offer is that sufficient farm assistance can be obtained only by the employment of men with their families. In other words, we claim that there are plenty of men in the towns and cities who would make efficient co-laborers with farm owners and tenants. Where this plan is followed, of course, it means the building of a second home, but those who have tried this plan have found that it results exceedingly well. An Illinois subscriber, Mr. C. W. Bridgford, takes up the subject from another angle when he says:

Our plan for getting and keeping help is to pay current wages and in addition give a share of the profits of the farm. This gives each man a personal interest in the success of the enterprise and if we make nothing more than wages we do not have to pay any more. Going back to the old "cropper" precedent, labor is entitled to one-third of the products. At the beginning of the year all personal property pertaining to the farm is appraised at a fair cash value. And on this amount interest is computed at 6 per cent. A record is kept of sales and purchases, and another inventory at the end of the year shows the net profit. If the wages of the men do not amount to one-third of this sum, the balance is paid over to them as profit. This arrangement results in plenty of interested labor and prevents "mining" the farm by tenants. After several years' trial this plan has proven entirely satisfactory.

After all, this plan is nothing more nor less than the paying of maximum wages resulting as it always will in obtaining the most efficient among those who are available as employes. Let it be known in a community that any individual farmer is a good manager and an agreeable employer and that he pays good wages and it will generally result in the best talent going in that direction. If some such system as here suggested by Mr. Bridgford will stimulate interest in farm affairs, well and good, though we can imagine cases where the arbitrary one-third would be entirely out of proportion. As to the establishment of a minimum and maximum wage there is no question but what it will lead to better results if good work under certain favorable season conditions can result in greatly increasing productiveness, a part of which means increased compensation for the workman.

ESTABLISHING A MEADOW.

A small fortune was thrown away by the farmers of the corn belt in their efforts to establish meadows during the last two years. We know of instances where individuals invested hundreds of dollars in clover seed and today they do not have a solitary clover plant as a living testimonial of the expenditure. This sort of thing becomes monotonous in time, amounting in many cases to a real burden. Not only is there the loss of the value of the seed, but the failure means a breaking up in the rotation system requiring in many cases the growing of the same crop on the same land year after year. There is only one outcome to this, namely that eventually soils will tend to grow more weedy and insects will increase even more rapidly.

Now the question comes up, what can be done to relieve the situation? We believe that it is an appropriate time for farmers to do a little experimenting, it being our opinion that the sowing of clover and timothy much in the same manner that alfalfa is seeded in the fall at the present time will be entirely practicable. In the first place, red clover is just as hardy as alfalfa and furthermore if it is sown under similar conditions it will make almost as rapid growth the first few weeks as alfalfa.

We are not going to suggest that this plan be tried out on a large scale in the first place, although we have known a sufficient number of cases where this method worked well to justify us in rather urging the plan on our readers in a sort of experimental way.

The special method of sowing need not be dwelt on at this time because the plan to be employed will depend to some extent on the character of the soil. Where the soil is loose possibly disking after the grain crop is removed will be all that is necessary, though where the soil is stiff we believe that plowing to a depth of four or five inches and a frequent harrowing of the soil will bring it into ideal condition as a seed bed for clover and timothy. If this plan is carried out and the seeding is done about the middle of August and if there is sufficient moisture in the surface soil to germinate the seed quickly there is no question about the timothy going through the winter in good shape and we believe that the clover will stand a better chance of surviving the winter than it will of passing through hot July weather when it is seeded with a nurse crop.

This is a matter in which the experiment stations might perform a most important service or the farmers of their respective states, but, as before stated, we believe that it is entirely a resonable venture for farmers to take this up and try it out on their own account.

BELIEVES IN MAKING SILOS DEEPER.

It is not difficult to explain why silos are increasing so rapidly in popularity. When converted into ensilage a given acreage of corn furnishes such an enormous amount of good, palatable, nutritious food no comparison can be made between feeding the fodder in this condition and using it from the shock. An incident was related at the last meeting of the Iowa Aberdeen Angus Breeders' Association in which it was shown by one stockman that a herd of cattle that consumed $2,000 worth of hay during the winter of 1911 and 1912 were brought through the winter of 1912 and 1913 on ensilage made from ten acres of corn. Possibly every township in the corn belt could furnish similar cases and that being true we take it for granted that the number of silos erected this year will be even greater than has been the case any single year in the past. In this connection an Illinois subscriber has a word to say about making the silo deeper:

Of late years much publicity and advice have been given through the agricultural press, and those claiming authority, regarding the danger of constructing silos too large. This has probably resulted in many silo users going to the other extreme and building their silos much smaller than they should be. Many have already discovered their mistake to their sorrow.

My opinion is that where one silo is built too large 100 are built too small. By this I do not mean that they are necessarily too small in diameter, but that many silos built from twenty to twenty-six or twenty-eight feet high should properly have been from thirty to thirty-six or even forty feet high in order to have insured sufficient capacity.

The manufacturers of silos generally recognize more than anyone else the disadvantages of building silos out of proportion, and most of them have discontinued the manufacture of those greater than eighteen or twenty feet in diameter. It does not follow that a silo twenty feet in diameter is necessarily out of proportion, as these things should in every case be governed by the individual's particular needs. For instance, while a silo fourteen feet in diameter would be too large for many farmers who maintain only a limited amount of stock, one eighteen or twenty feet would not be excessive for one who has seventy-five or 100 head of cattle, but even then it is generally better to have two silos of medium size rather than one too large, as the different years bring different conditions.

In view of these facts the uninitiated in every case should build their silos to hold even more than sufficient for ordinary requirements, as it has been conclusively demonstrated that silage has as important a place in summer feeding as in winter feeding. By this it will be understood that instead of buying a silo 12x24 feet or 14x24, as the case might be, that a customer build one 12x30 or even higher. He will be well repaid in the end.

We believe that as the years go by farmers will more and more find it profitable to supplement their pastures during July and August and no supplementary food is likely to be at hand that will take the place of ensilage. This is due to the fact that it is relatively inexpensive and compared with soiling crops ensilage can be fed during the busy season of the year with much less expenditure of labor than is involved in any other system. We commend the suggestions of this subscriber in regard to making silos just a little bit deeper than has been the case in the past.

Ask your neighbor to subscribe to The Homestead.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Those who have not time to weigh each cow's milk twice every day will find that by weighing three days in the month and multiplying this by ten will enable them to keep pretty close tab on the monthly work of each cow. Each cow's milk should be tested at least once every month either with a hand tester or at the creamery. If this is done it will not be necessary to keep the "boarder" till she reaches a ripe old age.

These stormy days are ideal times for the sorting and grading of seeds that will lay a firm foundation for this season's bountiful crop of field products. "A stitch in time," you know.

Should the apples with rotten specks on them accumulate in the cellar and storage pits faster than they can be eaten and used for cooking purposes, let the good housewife can them, or make apple butter of them.

Don't slop around in this cold mud and water with damp, clammy feet and expect to save anything by thus avoiding the expense of buying some good rubber boots. A man works better, anyway, with comfortably warm feet.

Avoid making the soil too rich in your germination box, as the seeds thus stimulated might show greater vitality than they would develop in the ordinary soil out in the fields where they will be planted a little later in the season.

While it is advisable to keep the heifer that will calve in good flesh, don't get overzealous and cram her with too much feed. Avoid the formation of fat and heat in her system, keeping her only in normal condition till she has dropped her calf.

If you have kept a pretty accurate record of each cow in the dairy herd this year, you now can take down your notebook and pencil, figure up the profits of each individual member, and then avoid the loss of keeping the unprofitable cows through another feeding season.

Sowing grains containing weed seeds of all kinds is a guaranteed method of cutting the grain yield short, seeding the whole farm to weeds, and sapping the vitality of the soil; while the use of the fanning mill insures a clean, pure grain crop at the minimum expense to the soil.

Plan now to run the harrow immediately after every bit of stirring you do this season. It will not only leave the ground ready and in fine condition for planting whenever desired, but by smoothing the surface soil it will greatly aid in the conservation of the moisture, thus fortifying it against the period of dry weather which invariably comes on at some time during the cropping season.

With the thought in mind of what heavy work the horse has ahead of him, give him the feed, care and attention that will put him in prime shape for the strenuous season.

Now that you many renters have moved, insist upon your landlord making a thorough inspection of the whole farm—buildings, fences and all. In justice to you and the man who has just vacated the premises, your landlord ought to know what condition everything is in when you assume charge of the farm. Such a course could do no harm, but it would insure against any trouble or misunderstanding arising from that source in the future.

If the county adviser proposition proves a winner, the county adviser must be a man who knows his business from the ground up. It strikes me that the advocates of this proposition are claiming more to come from one official than can possibly be drawn from the well of knowledge of one man.

I believe in one farmer selling seed to another, but I must admit the price received, above market value, is seldom enough to pay for the bother that the purchasing farmer must occasion the farmer making the sale.

It's a good idea to have an extra four-horse evener ready for use. I remember well enough a time when one broke on the self binder, on a hot, sultry summer morning, with a storm threatening and "old man" Furrows wanting to get done beforehand. There was a quick get-together of brace and bits, a saw and a piece of timber that answered the purpose for awhile.

Those who can have the choice of several roads to town are now using the telephone in an endeavor to locate the way offering the greater distance of dragged grades. If you want to bring travel alongside your farm, keep the road dragged.

The best way to take hold of some propositions is to take hold of what everyone believes is the wrong end. This is best exemplified in growing a crop everyone else is leaving alone.

Those empty fruit jars could be put into good use by filling them with meat for summer. Meat would keep fully as well in glass jars as in tin boxes and we would have the satisfaction of knowing just what kind of "canners" were used in filling them. We would also know more about the canner that did the filling.

One thorough dragging from the ditch to the center of the grade, after the frost has gone out in the spring and the surface has dried, does more good than one cut made later with an eight-horse grader. The dragging costs less than half the price of the grading.

My past experience with replowing in the spring land that was plowed the fall before leads me to believe it does not pay, particularly since the disk harrow has been so perfected that a man can very nearly do a job of plowing with that.

Regal

Choose An Underslung

The Car Suited for Country Roads

YOU will do most of your driving over country roads. The car you buy must be suitabe for these roads. It must be built low—not too low—and it must be safe.

The safest cars today are those built the Underslung way. Their constructions—the frame below the axle—brings the weight nearer the road. Whether you are driving over smooth roads, sandy roads or slippery roads, the car stays on the highway.

To be prepared for all kinds of roads you should choose an Underslung. Whether or not you purchase a Regal Underslung, your choice should be one of these "safest" cars. We know that in an impartial consider ation of the other cars and the biggest value, you will want to see and ride in a Regal Underslung.

This Regal Underslung touring car, shown below, has been designed to meet the demands of country travel. Primarily it is a safe car. With the weight hung low, it overcomes the danger of "turning turtle" and lessens skidding. Its road clearance is not only ample but also even. All the vital parts of the motor are protected with a flat dust pan. A Regal Model "T" can go anywhere another car can travel and where many cars cannot.

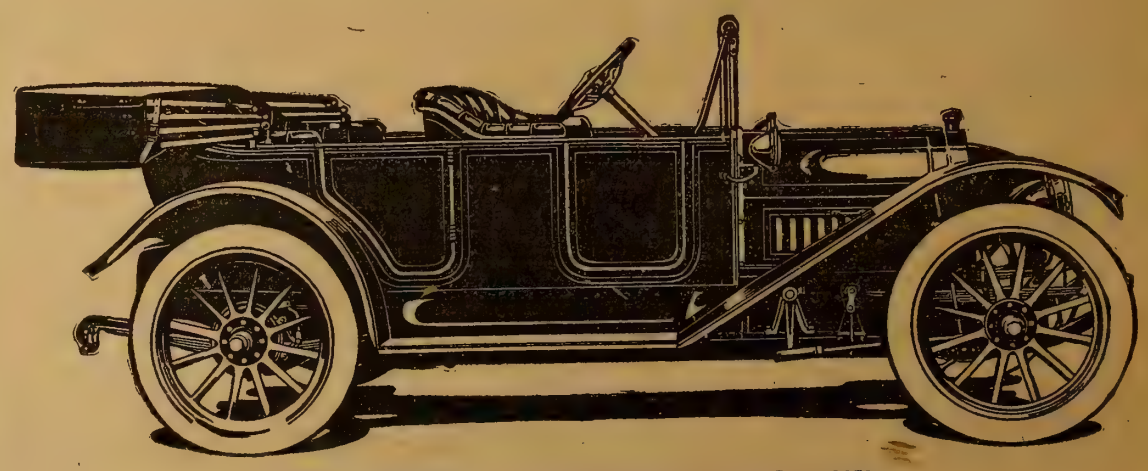
Besides a feeling of safety the owner of one of these Regal Underslungs finds additional satisfaction in the appearance of his car. The low rakish body gives it that "different" look which makes a man proud of the car he drives, The nickel-plated trimmings, electric lights and luxurious upholstering are further factors for beauty, comfort and satisfaction.

As one intending the purchase of a car for country travel, you owe it to yourself to learn more about this car and the other Regal Underslungs. See and talk with the nearest Regal dealer or, in case there is no Regal representative near you, write us at the factory.

Write today.

The Regal Motor Car Company

204 Piquette Avenue Detroit, Michigan



$950—Regal Model "T" Underslung Touring Car—$950

CURRENT EVENTS

KING GEORGE, of Greece, was assassinated while walking in the streets of Salonika on Tuesday of last week, the assassin being a Greek of low-mental type. The attack was made from behind and but one shot was needed which went direct to the heart of the ruler. The king, who had been taking personal command of his troops in the early part of the war with Turkey, had been in Salonika since last December. He was in his sixty-eighth year at the time of his death. Thousands of his countrymen have returned to their native land from the United States since the beginning of hostilities between Turkey and the Balkan provinces, though it is claimed that this patriotism was not because of love for the assassinated king, but for love of the country. Wherever Greeks have been assembled in the large cities during these troublous times cheers have gone up for the Crown Prince Constantine, but only curses and groans for the king.

ANOTHER plan of giving the farmer an agricultural college education will soon be put in operation by the extension department of the International Harvester Company. It is the intention to try out the new movement in the state of Illinois. The general plan will be modeled after the extension work that is now being carried on by agricultural colleges, though it is proposed to put on enough experts so that farmers of a given community may be dealt with directly. Automobiles will be used to carry the instructors from farm to farm and the first work to be taken up will deal almost wholly with the establishment of a larger alfalfa acreage throughout the state. Prof. P. G. Holden, formerly of the Iowa Agricultural College, will have charge of the extension instruction.

THE supreme court of the United States recently declared the plan of guaranteeing bank deposits constitutional and it is pointed out that this decision means trouble for a democratic congress. It seems that members from western states are favorable to the plan whereby the state guarantees deposits in state banks and some are willing to go farther by placing the same guarantee on deposits in national banks. If any such attempt is made it will be bitterly opposed by eastern representatives. It is expected that Mr. Bryan will champion this cause in the cabinet, as he has been the advocate of it and has been an important factor in getting it enacted into a law in Oklahoma and Kansas. Secretary of the Treasury McAdoo and his first assistant, John S. Williams, are said to be opposed to the guarantee plan, so that with a divided cabinet and a divided congress the enactment of this plan into a national statute can be brought about only under high pressure from the western states.

NOW comes the announcement that Ex-President Charles W. Eliot, of Harvard University, has been decided upon by President Wilson for ambassador to Great Britain as successor to the late Whitelaw Reid. Now retired from the active duties of educational affairs Ex-President Eliot after a service of forty years at Harvard University comes into new honors in his seventy-ninth year. For the last half a century he has been regarded as one of the leaders in national educational reforms. During the same time his advice has been frequently sought by the political leaders of both parties.

DEMOCRATIC control of the senate has resulted in the elevation of a number of prominent party senators to important committee chairmanships. Senator Simmons, of North Carolina, becomes chairman of the important finance committee, which is to handle all the tariff bills. Senator Tillman, of South Carolina, waged a strenuous personal fight to secure the chairmanship of the appropriation committee, the second most powerful of the senate, but was unsuccessful, Senator Martin, of Virginia, winning out. Senator Gore, of Oklahoma, a close personal friend of President Wilson and one of the most progressive democrats in the upper house, Senator Owen, of Oklahoma, and Senator Clarke, of Arkansas, chosen as president pro tem, will likewise be conspicuous, wielding much influence in the new senate to which will be submitted important problems, not only at the forthcoming special session, but at the regular session to convene next December. The access to power of the democrats marks the passing of the prestige of many of the reactionary republicans, prominent among them being Senator Penrose, of Pennsylvania, and Senator Crane, of Massachusetts.

A DEATH-DEALING wind storm wrought havoc in and around Omaha last Sunday evening, the first and unverified reports placing the number of lives lost at several hundred. Telegraphic communication was completely cut off the greater part of Monday, but the fragmentary reports which come through tell of great destruction wrought in South Omaha, parts of Council Bluffs and in several small towns immediately east. The storm followed the severe disaster which caused a loss of fifty lives or more in Alabama and other southern states and was accompanied by severe wind and snow storms throughout the greater part of the grain belt. It is impossible as yet to compute the loss in dollars and cents, but that it will reach an enormous total seems inevitable.

IMPRISONED English suffragists are being thwarted in their efforts to starve themselves to death. Twice daily they are fed through a stomach tube very much in the same manner as turkeys are force fed for fattening purposes. In some cases it requires as many as six attendants to creditably perform the task of imparting nourishment to those who propose to die for their great cause. One instance was reported last week where a suffragist sponged herself all over with hot water and remained uncovered all night in the hope of catching her death of cold. Others pretended to take food, but surreptitiously starved themselves so as to become exhausted and therefore die in prison, the hope being that this martyrdom would the more rapidly lead to the enfranchisement of the sex.

FORMER speaker of the national house of representatives, Joseph G. Cannon, arrived at his home at Danville, Ill., last week this being the first time in forty years when "Uncle" Joe has been among the home folks and out of public office at one and the same time. Arrangements had partially been made for a public welcome of the former speaker. When asked by wire if certain plans should be carried out, Mr. Cannon objected, and later said, "I don't object to garlands for the cadaver, but why decorate the sepulcher?" Commenting on his own physical condition Mr. Cannon said: "I have had a slight touch of indigestion, but just now I am feeling pretty fine again. As to my mental state let me tell you that when I get so old that I cannot take care of myself I have got a few good friends here in Danville who on occasion will come in and put their hands on my shoulder and say: 'Joe I wouldn't do that if I were you.'" Mr. Cannon refuted the statement that he had proposed to retire from politics claiming only that he had abandoned private ambition, proposing now to act as a private in the ranks.

ENCOURAGED by the rapid progress already made in a tariff revision bill close friends of President Wilson are now predicting that currency reform measures will be brought before the extra session of congress. Three months is the time allotted by the leaders for disposing of tariff matters before the extra session after which a currency bill will be presented as a party measure, one carefully worked out by congressional

(Continued on page 18.)

A New Cross Country at $1875

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Big sales proved the right of the Cross Country to leadership in the medium priced field. This car is sold at $1875 with long stroke motor, fifteen per cent increase in power, and dual ignition.

It's a car of exceeding beauty, richly finished in light Brewster green. Rakish, low and balanced perfectly, it has grace, suggestion of speed, and lines that catch and hold the eye.

It's the easiest riding car we know. You may tour all day with pleasure and return without fatigue.

You will never know the meaning of Jeffery service until you get a Cross Country. The ten thousand mile guarantee goes with each car.

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Have you seen the new Cross Country at $1875?

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We will add 50% to the net earnings of your corn-field

We will add fifty per cent. to the marketable value of your corn crop and let you pay us out of the extra profits we make for you. Fifty per cent. of the food value of your corn as it stands in the field, is in the stalks, husks and leaves. Only about fifty per cent. is in the grain and cobs. We will make you cash in on your stalks, husks and leaves as well as on your ear corn. An

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will enable you to put that fifty per cent. into your cattle to take out again in milk and beef. Twenty-five thousand other farmers are doing this today. They are feeding four head of cattle off the same acreage they used to require to feed two head. They are making as much money from their live stock in winter as they make in spring. They are fattening their feeders right through the winter months and doing it at a profit. You can do the same and do it without the hard work and discomfort that attends your present method of feeding.

Send us your order for an Indiana Silo today and we will make one to your order and ship it when you want it. You will be able to erect it with no trouble and in a very short time. You will have the assurance that comes from dealing with the greatest silo manufacturers in the world. You will have our guarantee backed by the resources of our entire organization.

If you want to make more money out of one acre of corn land than you are now making out of two, investigate our silo and our easy selling plan that enables you to pay for the Indiana Silo out of its own earnings.

WRITE today for our catalogue and a free copy of the book "Silo Profits," which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. And ask us for the name of our representative in your locality.

"You *buy* an Indiana Silo—but it *pays* for itself."

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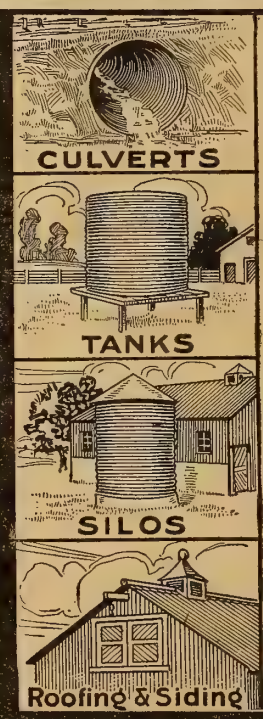

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LOUDEN'S SANITARY STEEL COW STANCHION

is the only real **Sanitary Stanchion** now on the market and guaranteed to be superior to all others—The favorite of all progressive dairymen who know. It's the simplest, strongest, lightest and **most durable.**

The single chain, flexible suspension, patented V-shaped end, stock-proof latch, and other exclusive features make it the safest and most comfortable for the cow and most convenient for you. Lowest in cost.

Quickly Pays for itself by increased flow of milk.

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TUBULAR STEEL OR WOOD LINED

SEE THEM AT YOUR DEALERS.

DAIRY

AN EASILY MADE MILK COOLER.

To the Editor of The Homestead:

A rather extensive acquaintance with small dairymen and dairy farmers owning from one to a dozen or fifteen cows has impressed me with the belief that a crying need of these small dairymen is a cheap, easily made, serviceable milk cooler. The large dairymen can afford to expend money freely in building milk houses and refrigeration plants for the quick cooling of milk after it is drawn, but my observation has been that dairy farmers are inadequately provided for cooling milk.

And it is these small dairymen in the country near cities and in the suburbs of cities who ship in the larger proportion of the milk consumed. Notwithstanding the great dairy companies in business in every large city, perhaps 75 per cent of the milk consumed in these cities is shipped in by farmers living all the way from the suburbs to 100 miles or more away, and a very large proportion of this milk comes in without having been cooled.

I was talking only last week with a big milk distributor in St. Louis who buys milk at wholesale from hundreds of farmers in this territory, and he made the startling statement that in summer 90 per cent of the milk he handled came in in hot cans, and in hot cars. Now, when you consider that some of this milk comes from towns 100 miles away and is in the cars in this heated condition perhaps three hours you will understand that it reaches destination in an unsanitary condition, and that milkmen who send in such milk are a detriment to the business. Yet many of these farmers are honorable men, and do not want to bring discredit upon the milk business, but they are not able to build expensive stone or concrete milk houses, some of them having perhaps only a half dozen cows.

For such dairymen a cheap and serviceable milk cooler could be made similar to one in use at a big hotel in St. Louis at which I deliver three ten-gallon cans of milk each morning. It is merely a long box about ten feet long, made of two-inch oak plank, high and wide enough for a closed ten-gallon can of milk to set inside with the box lid down. This box sets on a concrete floor between the store room and engine house of the hotel, in a cool, airy passageway where the sun never shines.

The box is put together in a substantial manner, with felt, rubber or some other kind of packing where the joinings occur, to keep the box from leaking. Thus it is as tight as if made of concrete. The box sets on heavy pine sills, and there is a faucet in the side, down near the bottom, to draw off some of the water when it gets too full. This waste water runs down the inclined concrete floor and through a small grated hole into the sewer. There is no pipe running water into the box, because it is not necessary. The ice put into the box melts and keeps the water replenished. A 100-pound block is put in every day. The ice is sawn into about three pieces, and one piece is put at one end of the box, another at the other end and the third about the middle.

The waiters, cooks and bakers are instructed to get milk out of the east end of the box, next to the dining room and kitchen door, and I am instructed to move the cans of milk I find in the box in the morning up to the east end and put the fresh cans in the west end, next to the street. Thus the oldest milk is used first, yet all of it is used while sweet and good.

The lid is a heavy oak one the same thickness as the sides and bottom of the box, and is fastened with a staple, hasp and padlock. This heavy lid is necessary, not only for keeping in the cold, but because when several cans one-third or one-half full are in the box, and the box is pretty full of water the cans stand rather high above the water. When the lid is raised suddenly they pop up like corks, and it requires a heavy lid to close, but when down and the lid is closed the tops of the partially emptied cans press squarely against the under side of the lid, and cannot turn over. When this box was first made, and before it was put into use it was hard oiled and given two good coats of paint, and will be a serviceable milk cooler for years because it is kept so cold with the ice that it never gets stagnant or ill smelling, for care is taken not to spill milk in the water, and the frequent stirring when fresh cans are put in and others taken out, or when ice is put in, or when a little of the water is drawn out all have a tendency to keep the water pure.

For a serviceable, easily constructed cooler this should be suitable for small dairymen who ship milk into cities. The box used at this hotel is about ten feet long, and holds six or seven

LOOK!

BEATRICE Separators Can Be Cleaned In 2 Minutes

Not Only That:

Our patented device leaves the machine spotless and perfectly sanitary. Clean as a new pin.

Look at these prices! 550 to 600 pounds capacity—$55; 750 to 800 pounds capacity—$65; 950 to 1000 pounds capacity—$75. Why pay more? There's no better machine. For the first time in separator history you are offered an efficient, durable machine at a reasonable price. You pay $25 to $40 more for other standard makes with smaller capacity.

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Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

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The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

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Kalamazoo SILOS Last!

Construction is right, material is right. Only silo made with full-length, structural steel door frame heavily galvanized after the riveting. Not a crevice exposed to rust. Choice of seven kinds of wood. Inflexible guarantee. We prepay freight. Catalog shows many more fine points, write for it today. Address Dept 26

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ten-gallon cans, but a farmer owning twenty-five or thirty cows could have a larger one if necessary, or perhaps two. Twenty cents' worth of ice a day (100 pounds, as it is usually sold) would keep say 100 gallons of milk sweet for thirty-six hours or longer, if necessary. Such a box should be placed under a shed on the north side of the kitchen or residence, never near the barn or cow stalls.

This cooler would be especially suited for country places, because no pipes would be necessary to run water into the box. The only thing necessary would be a faucet in the side or end near the bottom, to draw out a little of the water when the box began to get too full from the melting ice, with a pipe or tile drain to run the waste water away. A half dozen buckets of water poured into the cooler when first putting it into service, a block of ice sawn into two or three pieces (not more than three, to prevent its melting rapidly) and the box would be ready for service.

It is the law in some cities that milk shall not be sent in from farm dairies in summer showing a higher temperature than 50 degrees and this should be the law everywhere in the United States, and in time a law similar to this will be in effect generally, and with such a cooler as this a farmer fifty miles from the city could send in a half dozen ten-gallon cans of milk every morning in a pure, wholesome, sanitary condition. And it could be milk drawn the previous afternoon, anywhere from three to seven o'clock in winter and from three to eight o'clock in summer, for when kept in such a cooler afternoon milk would be as sweet at seven and eight o'clock next morning as milk drawn at three, four or five that morning from cows in a city dairy.

As a rule a dairy farmer with twenty-five or thirty cows must employ at least one or two hands as milkers, because the milking must be done twice a day, and somewhat hurriedly, but with a cooler like this a farmer and his sons could attend to their cows themselves. The milking could be done more leisurely, because as fast as a ten-gallon can was drawn and strained it could be placed in the cooler, when it would not matter whether it was sent to market within two hours or twelve hours. If necessary ten of the cows could be milked before breakfast, ten at eight o'clock and ten at ten o'clock, or in whatever other leisurely way suited the convenience of the dairyman and his family. In this way he would save more than the cost of the ice and the making of the cooler by getting along without a hired man.

In this cement age a more enduring box could be made of concrete, but every farmer and farm boy in his teens has some skill with tools, and could easily make a box as here described out of thick oak lumber, when they might not be equally skilled in making things out of concrete. Besides the oak box would be cheaper, and just as good as a concrete box for many years.

Cities are becoming more and more strict in their regulations and laws governing the handling of milk, and it will be wise for farmers to get in line early with the spirit of these laws, which are good laws, complying with them themselves and standing for their enforcement upon other less careless dairymen. J. Motes.

MANAGEMENT OF BREEDING BULLS.

To the Editor of The Homestead:

Breeding bulls cannot produce good results without plenty of nourishing foods and intelligent treatment. The poorly conditioned, worn-out bull cannot beget vigorous and healthy calves. To be at his best, he must have plenty of suitable food given him at the proper intervals. There must be plenty of bulky and succulent foods such as clover, alfalfa or mixed hay and silage or roots with the addition of just enough wholesome grain foods to keep him in a vigorous, gaining condition. He should be watered regularly at least twice a day.

A large and comfortable box stall gives the bull more freedom and is more safe and convenient for the attendant in feeding and handling the animal. Such a bull pen should be ventilated and well lighted, and arranged so that it may be darkened in the summer time to keep out the flies. He should be kept clean and provided with sufficient bedding material to prevent injury when getting up and down, as large animals, whose immense weight resting on their knees on concrete or plank, are very apt to bruise them and cause enlarged joints.

The care of the bull's feet is another important matter that must have careful attention. The constant standing in the stable has a tendency to cause them to turn up in front and prevent the animal from walking squarely on his feet. If the hoof gets out of shape it should be shaped properly by the use of a saw, pinchers and chisel.

Exercise is necessary to the health and general thrift of the breeding bull. The best way to exercise the bull is to have a small lot tightly fenced and allow him to run with one or two in-calf cows. In this way he will be more contented than if kept confined alone. If kept confined in a foul pen where he is constantly fretting he will have a spoiled disposition.

Always handle breeding bulls carefully and treat them kindly. If proper precautions are taken there is very little danger, yet it is always best to be on the safe side and handle them with a staff. The idea that a bull must be ill treated to know his place is a mistake. He is cunning and treacherous and if abused will await his chance to even up with you and when he does get his temper aroused he is a very dangerous animal to be around. It is many times best to put up with a few of his eccentricities than to undertake to club them out of him or you will have a merry time in bringing him to your way of thinking. Give him a little feed and pet him, even if you are playing the role of a Judas. In my fifteen years' experience handling dairy bulls we have had but one dangerous animal and this one we bought from a man who was afraid to handle him any longer. On the other hand we never allow our men to take a bull young or old out of his pen unless he uses a staff. It teaches him you are his master and he willingly takes up with the program.

As a rule it is best not to use a bull for service until he is fourteen or fifteen months old, and then he should be used carefully. Handled properly during the first two years he may be used many years. The folly of selling a good bull before his calves show their worth as individuals and breeders has been made plain to more than one man who has parted with a good sire. Never allow more than one service.

The young and growing bull should have more feed, care and attention than an older animal. He needs more exercise to build up healthy and vigorous vital and reproductive organs. This demands a strong and vigorous body and nervous system. No animal can develop into that symmetrical form that he should unless he has plenty of the right kinds of food and good care. Neither will he be able to beget calves that will be a credit to his ancestry if he is kept in a run-down, emaciated condition.

If we get good results we must keep our breeding bulls in good, thrifty condition. To the accomplishment of this end we must feed them liberally and give them clean and well-ventilated pens. Handle them quietly and not overtax their vitality by too much service. The well-kept bull and his calves are objects of admiration to successful stock farmers and dairymen. Do not forget when feeding the breeding bull that you are feeding half of the herd, that is from the standpoint of reproduction.

L. J. Meredith.

CURING LUMP JAW IN CALVES.

To the Editor of The Homestead:

There may be remedies for curing lump jaw in cattle. There is always a time when this lump is small and the observing attendant will see it before it gets large unless the calves are taken to a far-off pasture where they cannot be seen closely very often.

The time to cure this is while small, as in other cases "a stitch in time saves nine." Not long ago I observed a lump forming on a calf weighing 500 to 600 pounds. Immediate steps were taken for its removal. I figured the animal was practically worthless with it and worth $20 to $30 if I met with success. At any rate the experiment was worth the trial. Securing help the calf was placed on his side and his legs securely fastened. A slit was made and the lump peeled

$65,000,000
would be saved annually by the exclusive use of
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It is estimated that a million cow owners in the United States are still skimming their milk by some wasteful "gravity" method.

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Then to this tremendous cream waste through the use of inferior separators must be added the excessive cost for repairs on cheap and inferior machines and the cost of replacing machines which should last from ten to twenty years but which are ready for the scrap heap in two or three years. There must also be taken into consideration the loss in lower prices received for cream and butter due to inferior quality of cream produced by poor separators, all of which must easily equal at least $10,000,000 more.

This makes a grand total of $65,000,000 which would be saved to the cow owners in this country by the exclusive use of De Laval Cream Separators.

At first sight these figures may seem startling but any experienced dairyman or creameryman will agree that the cream and other losses without a separator or with an inferior one will average a good deal higher than the above estimates and that these figures are really very conservative.

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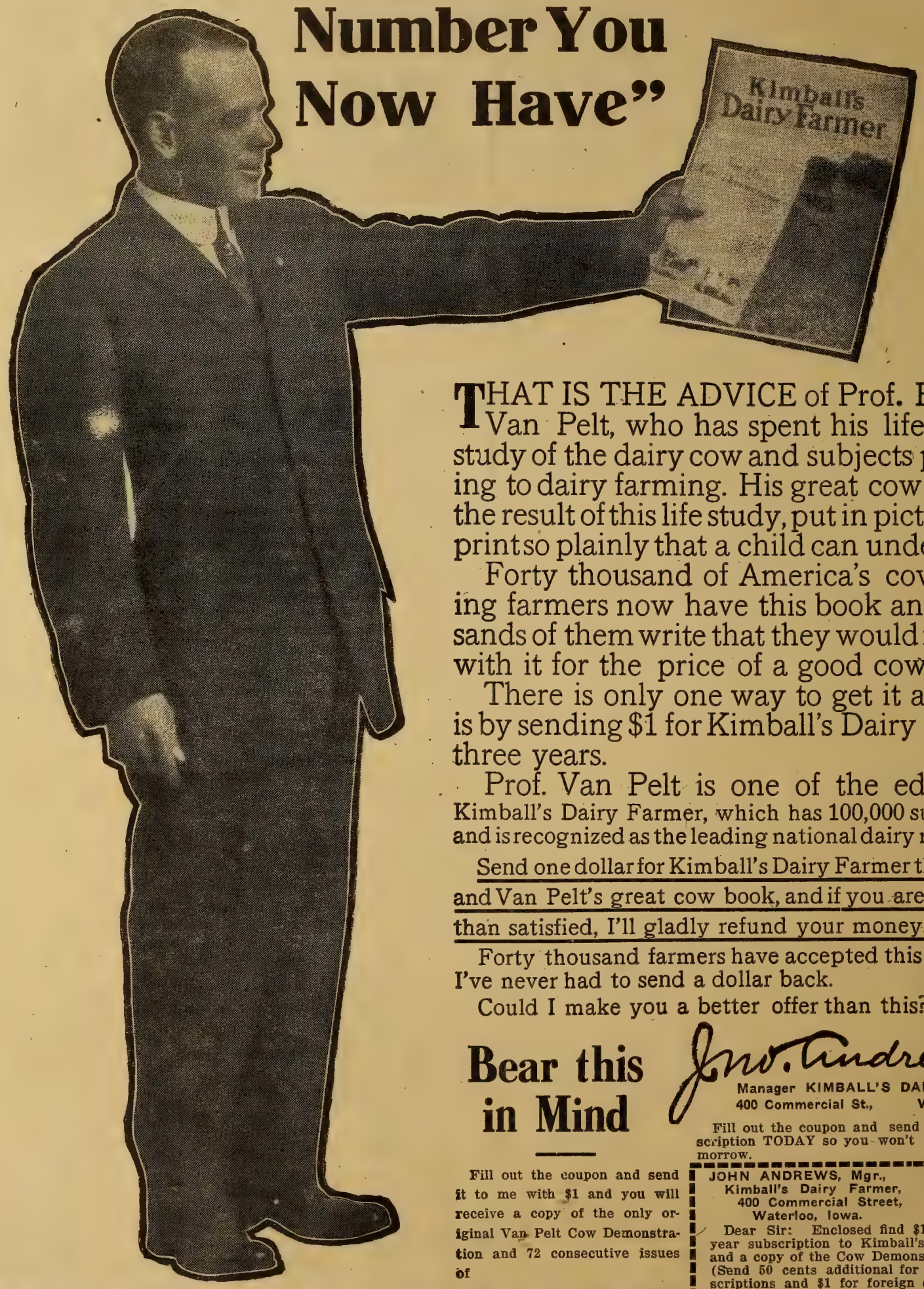

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out. There was a very thin lining of membrane next to the jaw bone. However, the entire lump was removed. A small blood vein was severed in the operation. The blood squirted to a distance of ten or twelve feet. Calmly I threaded a needle with white thread and sowed directly through the severed blood vessel and stopped the flow of blood. I then washed out the wound made by removing the lump after which a liberal supply of iodoform was sprinkled all over the inside of the wound. Then the wound was neatly sewed up so as to leave no rough edges. Iodoform was sprinkled over the outside edges and the calf turned loose. Two months have elapsed. The wound healed nicely and no sign of the lumps appearing can yet be seen.

J. W.

CREAMERIES ARE PROFITABLE MANUFACTURING PLANTS.

Those communities with well-established creameries in operation realize that the creamery is an excellent manufacturing establishment. Many Iowa towns with around 1,000 inhabitants have creameries with annual outputs of from $75,000 to $100,000, which show up in heavy bank deposits, cash business at the stores, sustained fertility of the farm lands and the numerous advantages of a thrifty community.

According to the Iowa department of agriculture, which recently issued a public statement, 113,200 patrons of 504 Iowa creameries reporting to the Iowa State Dairy Department in 1912 received approximately $30,000,000 for their butter fat. This would make the annual income of each patron from his cream alone about $265. As a matter of fact many of the farmers selling cream to the creamery will make a good deal more than that, $100 per month and better not being at all unusual. With the great majority of them this dairying is only a side line. They keep a small herd of cows, averaging according to this report about seven cows to the patron. General farming is followed by most of these farmers.

The total value of the cream check represents only a part of the gross income from the cow, inasmuch as the skim milk, fed to the hogs, is an important item. The value of the manure in sustaining the fertility of the farm is another important consideration. But the cream check shows the ready money coming in which is such an important factor in the thrift of the community.

The report of the co-operative creamery at St. Ansgar, Mitchell county, for the year ending January 1, 1913, shows that this creamery paid out over $82,000 last year. St. Ansgar at the time of the last census had a population of 747 people. An $82,000 factory in a community of this size is an important industry and this report is considered by our state dairy department as fairly typical of successful co-operative creameries in Iowa. There are many such creameries in the state.

In fact the creamery industry in Iowa is the second manufacturing industry in the state in value of its products, being exceeded only by the meat-packing industry. The total value of the dairy products in 1912 is estimated by the Iowa Department of Agriculture to be $53,000,000. From 1904 to 1909 the value of the creamery products of Iowa increased 72 per cent, showing a marked development in the industry. In 1909 the state ranked third among the states of the Union in the value of dairy products.

WINDOWS IN THE DAIRY BARN.

To the Editor of The Homestead:

A man who had recently built a new barn rather proudly invited a man who had a well-known reputation as a producer of sanitary milk to visit it. "I want you to tell me if I have a sufficient number of windows in it," he said. The old dairyman immediately asked, "Is there room for any more windows?" "Yes, I presume so." "Well, then, I can tell you that you haven't got enough light."

It has been the writer's privilege to visit the farm of the apostle of light for dairy barns. Literally the side of his barn and the ends are of glass. He says: "Glass costs but little more than to cover the same space with wood and it has a great many advantages."

New dairy barns everywhere have a larger area of window surface than the older ones. The recommendations of the Federal Dairy Division are: "At least four square feet per cow." In older barns very frequently we see evidence that the wall has been cut away and window glass inserted. The questions may well be asked: "What does all this mean? Why so much glass? Is it more durable than wood? Or what are its advantages?" Some say, "We use the barn only during the winter. Then the days are short and we do the work by lantern light. We don't need windows, do we?"

In answer to the above often encountered questions let us say first of all, and as a basis for all that is to follow, that windows lead to cleanliness and next to cows and feed, cleanliness is most essential. It is the dark barn that is dirty invariably. Not long ago a visitor groped his way through the dark alley in a cow barn. Suddenly he bumped into something heavy and stiff. "Just my milking overalls," said the owner. In contrast there is another farm nearby where there is an abundance of light. Milkers there wear white suits and everything is clean and sanitary. The well-lighted barn is a clean barn.

Windows in a barn lead to better health in the herd. One of the most prominent of America's breeders of dairy cattle recognizes that fact in that he has a calf barn, the walls of which are more glass than wood. In contrast we may give one illustration of a dark cow stable. Twenty cows were sheltered in it for some time. Then the veterinarian came and tested for tuberculosis. Nineteen of the twenty were condemned. After that the owner got busy and cleaned up the barn. Above all he put in many windows where there had been none. It is a well-known fact that sunlight is the greatest destroyer of disease germs known. Be they germs that might affect the cows or that might enter the milk they cannot survive the direct rays of the sun.

Windows make the work in the dairy barn more satisfactory by providing plenty of natural light. Not all men do the work in the barn by lantern light. Neither does the man quoted above. Windows can be used for ventilating purposes. In fact, window ventilation is one of the most satisfactory means in use by which a one-story barn may be ventilated. The preferable method is to have windows of single sashes hinged at the bottom. On either side there is fastened a triangular guard which makes a protection against the wind blowing in at the side when the window is open. The air must enter above the window and not directly upon the cow. Out-

PULL OUT THE STUMPS!

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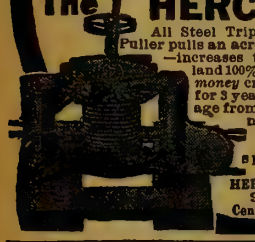

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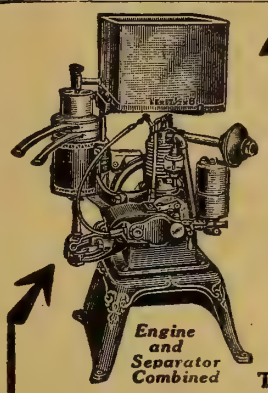

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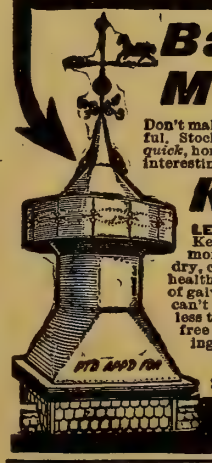

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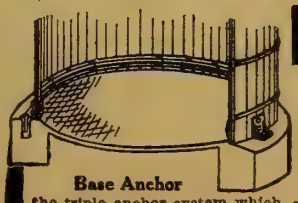

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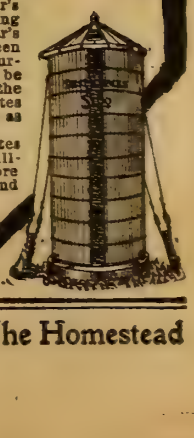

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H. E. McCartney.

"Good" Cows Versus the Best.

PRESIDENT HYDE, of Bowdoin College, once said, "The good is the enemy of the best." At first blush, that seems to be a rather startling proposition, a contradictory statement, but looking at it from a certain standpoint, it would seem to be entirely true. We are quite apt to say, "That is good enough," and not strive for that which is better or best, and when we do that then I think the statement of President Hyde is absolutely true. We oftentimes hear farmers say, "That is good enough," when a little effort or thought or interest would produce something entirely better.

The adjective "good"—we used to compare the adjective by saying, "Good, better, best," and I want to talk briefly about better cows, or the best cows. I do not mean necessarily pure bred, but the best producing cows, in other words, profitable cows.

I would say that the benefits which come from good breeding are so apparent, and the rules that govern it are so simple, that the wayfaring man, though a farmer, need not fall down in the way.

I wish to speak of two ways in which good cows may be secured. The first is by going out and finding herds of cows whose owners have carried on a system of testing for some years and can tell just what each one of their cows has given in pounds of milk and in butter fat. In this way you can secure good cows if you are willing to pay the price.

However, you cannot expect such persons to sell their tested cows, that they know are capable of producing 400 pounds of butter fat per year, for the price of an ordinary cow. Again, you can buy cows from neighboring dairymen and occasionally you will get a good one. The appearance of cows is very deceptive; the only way to tell what a cow is worth is to use the scales and Babcock test.

Two years ago we had two grade Guernsey cows in our herd. Several men who visited our place were asked to look these cows over and tell which was the better of the two. This was done several times, and invariably the men would select No. 13, the poorer animal of the two, and call her the best individual. We bought her for an ordinary price and sold her for beef, because no matter how well she was taken care of we could not get good results from her. The other grade, No. 16, is a cow thirteen or fourteen years old and has been capable of giving 10,000 pounds or more a year, and upwards of 400 pounds of butter fat, and yet intelligent dairymen looking over those individuals would say that No. 13 was the better of the two. Again, I wish to say, outward appearances are very deceptive.

The second way of securing good cows of which I wish to speak, and which I believe is much the better, and is open to all, is to take whatever cows you have in your herd at the present time, I do not care what they are, scrubs or anything you have, then decide as to what dairy breed you wish to develop on your farm. In helping to decide wisely, I think it would pay one to spend a day or two in investigating what is being done by a good Jersey herd of cows. Then go and visit good herds of Guernsey cows and spend a day or two in investigations, ask questions and learn all possible, and so on with other dairy breeds in the same way. After you have spent a few days, a little time and money, it seems to me an intelligent farmer ought to be able to decide which of the dairy breeds he would like to develop on his farm.

Having decided what breed you want to develop, the next question is the sire to head the herd, and right here you want to use the best judgment possible. Get a good individual, look carefully to the qualities of the dam of the sire. She should be a good cow, with a good udder, a large producer. Get just as long a line of good producers on both sides of this sire you propose to buy as is possible, the longer the better.

One word in regard to what a cow should do. My opinion is we farmers ought not to set our standard at less than 400 pounds of butter fat for a cow as an annual production. I do not say we ought to stop there and consider that as altogether satisfactory. I think it is our duty to so manage our business that we may get that much from the individuals in our herds. We should try to get such large producers that butter may be retailed at thirty cents and still leave a profit to the producer. Butter at forty cents is in the class of luxuries that common people cannot afford to use, so we ought to develop cows that will produce 400 pounds of butter fat, which, with the skim milk and the calf she will bring, and the fertilizer to put back on the ground, will make the cow a profitable animal, even at the high prices of feed at the present time.—[G. F. Comings in Wis. F. Ins. Annual.

THE REPUTATION OF THE DAIRY.

To the Editor of The Homestead:

A sanitary dairy near a large city was visited a short time ago. A remark by one of the men employed on the farm impressed the writer very forcibly. The man said, "Last month our dairy scored more than 2 per cent higher than any other dairy supplying the city. Since the results were published we have had a great many visitors." A consideration of the matter seems to show that people give more attention and thought to their milk supply than to any other article of food. This is necessary in part owing to the perishable nature of milk. The desire to have clean, healthful foods accounts for the remainder of the public interest.

The dairy mentioned has stood in high favor since its establishment six years ago. The owner is a man of sufficient means to own and operate the dairy, but it is his one business. He had not had previous experience in dairying, but had learned some of the details while an agricultural student in school and was able to see the universal public demand for pure milk.

Barn and milk house were constructed new and of strictly sanitary design. Healthy cows were purchased and certified milk was offered on the retail market. No milk was sent out that was not absolutely up to requirements. The board of health made favorable report upon the dairy and upon the milk. In a very short time the demand exceeded the supply. Then the trade was restricted to the section of town nearest the farm which simplified delivery and collecting. Even after that there has never been a day that people desiring to purchase certified milk have not been turned away.

Near that same city is another sanitary dairy. The milk from it, however, is sold wholesale to a distributing company in the city. The name of that dairy is so well known and the quality of milk and cream so absolutely sure to be up to standard that the name of the farm on the caps for the milk bottles is sufficient to sell the milk several cents per quart above that received for the products of other dairies. In both those dairies high-class milk and cream have been produced and never anything of an inferior grade substituted. When there has been no certified milk to supply the entire demand, orders have been filled only by stating that the milk used was not certified and by accepting a much lower price. The reputation of those two dairies enables the products from them to sell from 50 to 100 per cent higher on the retail market than the milk from any other dairies. So it is everywhere. There is not a city in the middle West where the demand for clean, sanitary milk does not exceed the supply. Always the price is high.

The same is equally true as regards the sale of breeding stock. There is not to be found anywhere a dairy herd

Just a sample one of the 200 to be sold at

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MAY 1 AND 2, 1913

The largest and best in the middle West.

Every animal will be a choice, selected individual, free from blemishes of any kind and guaranteed right in every particular.

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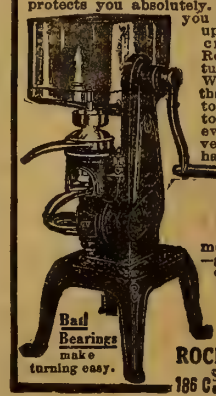

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that is overstocked with good cows. If the herd produces well, the fact is widely known and there comes an insistent demand for sale. The chief difficulty comes in putting the price up high enough to retain the best cows in the herd. It is usually a matter of pride with small dairymen to have a bull from a herd that is widely known. At the head of one herd visited recently was a bull from one of the most famous herds in the country. The herdman could tell nothing about the bull's ancestry as to whether it showed high production or not. He was highly satisfied to know that the bull came from that particular herd. The reputation of the herd from whence he came was sufficient recommendation.

How is a man to secure a reputation for his dairy? Is it legitimate for him to seek a reputation? The answer to the first is simple enough. First, a man must produce what the market wants. If clean, wholesome milk is desired, then arrangements as to buildings and cows must be made such as will produce it. Then the public must be made aware of the fact or else the reputation will never come no matter how much the dairy is worthy of it. Judicious advertising is necessary. Neat, bright wagons with appropriate lettering and drawn by a pair of nice horses form a cheap and attractive advertisement. Advantage must be taken of every opportunity to get a write-up in the local paper. In the case first mentioned in this article it was the publication of the results of the inspector's score that was leading visitors to the farm. Bill boards may sometimes be used effectively. In answer to the second question we may well say that it certainly is legitimate to seek reputation. A reputation for satisfactory service and a high-class product is necessary to maintain a profitable business. It is just as legitimate for a dairyman to seek a reputation for what he has, as it is for a merchant to make his place popular by advertising or otherwise. The reputation of the dairy is really the balance wheel of business and profit.

H. E. McCartney.

AGE TO BREED DAIRY HEIFERS.

This is a matter that is presented many times during the year by our subscribers as they ask about the age at which their dairy heifers should be bred, having in mind the development of dairy qualities to the highest degree. In answering this inquiry we cannot do better than quote from Prof. C. H. Eckles' excellent work, "Dairy Cattle and Milk Production," as follows:

The age at which cows should come into milk depends somewhat on the breed and the maturity of the animal. The larger breeds, as the Holstein and Brown Swiss, as a rule should not calve much before thirty months. The more rapidly developing Jersey is, as a rule, sufficiently mature at two years. Other breeds rank in between these extremes. The proper age to breed depends somewhat on the size and development of the heifer. Heavy feeding of grain results in an animal large for its age and early sexual maturity.

Some breeders prefer to have the first calf dropped at rather a young age, claiming in this way to fix a habit of milk production in the young animal, and at the same time securing financial returns as early as possible. A common practice among these breeders is to allow about eighteen or twenty months between the first and second calves. In this way a long-milking period is developed and the cow has time to grow before the birth of the second calf.

It is severe strain on the heifer to develop the fetus. Our investigations show that during the last three months of pregnancy a heifer, even when fed a liberal ration, does not add to her own body. The increase in weight shown is all found to be in the fetus. After the calf is born the heifer weighs, as a rule, no more than she did three months previously.

Breeding too young undoubtedly results in small cows. It is impossible for a young cow to digest and assimilate a sufficient amount of feed to produce milk and growth at the same time. The production of milk, on account of its relation to reproduction, is a dominant function, and will not be materially checked to allow growth to continue. For this reason it can hardly be expected that a heifer calving young and immature in size will develop into a cow of normal size if she calves regularly each year afterwards.

The cow that has calved early, as a rule, shows a more pronounced feminine characteristic, and is finer in the bone, than the one that has calved at a later age.

To the advice given by Professor Eckles we would also add a word about the dual-purpose cattle that are so common on the farms of the corn belt. These greatly outnumber the dairy breeds and in most cases they are grade Short-horns. Heifers of this breed should if anything be bred a little later than either the Holstein or Brown Swiss heifer. If they have their first calf at thirty-two or thirty-four months or even three years of age this will be plenty early enough and while it is a little more expensive to carry cattle that long than if they came into milk earlier, yet in the end the practice is a justifiable one. No matter what breed one handles the aim should be to keep up the scale and this can only be done in the case of dual-purpose cattle if they are allowed to get plenty of size before dropping their first calves.

COMMON-SENSE TREATMENT OF DAIRY COWS.

(Continued from page 3.)

intensity in the dairy business. Let us urge the minimization of dairy wastes and the profitable utilization of dairy by-products. Briefly let us all join together in promoting the abolition of the unprofitable cow, of the unbalanced ration and the inefficient method of management from our dairy herds. Dairy cows are intended to be profitable and economical producers. It is our duty to maintain the animals under conditions that will promote the attainment of such results.

A milk firm in Boston estimated the cost of delivering a quart of milk to the consumer at 4.4 cents, to which it adds .37 cents for shrinkage, while the average price paid to the producer was 3.9 cents per quart; that is to say it cost more to deliver the milk than to produce it.

Ask your neighbor to subscribe to The Homestead.

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HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

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BULLS, COWS AND HEIFERS

FOR SALE at farmers' prices; 25 bulls, registered, ready for service, as good as grows; 20 reg. cows and heifers and heifer calves; 50 high-grade cows and heifers. Priced to sell. Write your wants or come.
ROCK BROOK FARM
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Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.
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PURE-BRED registered Holstein bull calves, from 1 to 12 months old. An extra choice lot, most of them sired by our great herd bulls, and many of them out of high record cows. Our prices are bed-rock. We are short of room and must sell at least 20 of them in the near future. Send for price list.
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W. C. KENYON, Elgin, Illinois

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented. Bulls and heifer calves. Herd tuberculin tested
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GUERNSEY CATTLE.

WE NOW OFFER 30 HEAD
of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address
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THE GLIDE "36-42" is right up-to-the-minute.

Has all the new features that a car should have, regardless of cost. You'll be proud of a GLIDE in any company.

Electric Lighted throughout—simply "press the button."

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The Glide Motor-Driven Tire Pump does away with tiresome hand pumping.

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Fully equipped $1690
Less Top and Glass Front $1640

Find Out *The Cause and Effect of*
Deep Tilling!

Spalding users—on a thousand farms—are reporting their increased crops and enhanced land values. Below are a few such reports—many more are waiting for your inspection in our *Experience File.* All these men read about the **Spalding Deep Tilling Machine** a year or so ago and realized *then and there* that they didn't have any time to waste, so they got busy and *now* they can report as they do.

Elsie, Neb., Mar. 20, 1912.
Expect to keep my two Spaldings at work continually this spring and to be able to report later the exact results. My experience so far as it has gone has been very encouraging. Their work speaks for itself. Whenever deep plowing is needed, they solve the problem with a minimum of power needed, and no other machine that I have seen will mix in the same way the soil from top to bottom of furrow. A most important point in many soils. ROBT. TAYLOR

Fort Atkinson, Wis., Oct. 28, 1912.
I have your letter of the 16th inst., relative to my experience with one of your machines which has been in use on my farm for nearly two years.
I can say frankly, that the plowing it does is the only plowing that ever suited me in full. The way "it goes to the bottom of things;" the results shown in the growing crops for two seasons (one of drought and the other of abundant moisture) convinced me that I have found another farm that the machine has disclosed to me.
My idea that one thorough breaking up of the soil twelve inches deep, is enough for at least a term of years. Both logic and experience justify the use of this splendid tool.
W. D. HOARD.

Clarinda, Ia., Jan. 20, 1913.
Replying to yours of Jan. 2nd, in regard to the results of the use of the Spalding Deep Tilling Machine, will say that the field in which we used this machine was freer from weeds, worked easier and the soil was in a better physical condition than fields plowed in the ordinary way.
MARCO B. WALKER.

Thomas, Ill., Dec. 16, 1912.
My corn was one-third better where I used the Spalding Deep Tilling Machine.
THOS. A. DRAYTON.

Monmouth, Ill., Oct. 29, 1912.
The deep tilling caused a gain of 17 bushels per acre.
HARRY F. FAIR.

Why Shouldn't You?

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The Dairy Department of the Illinois Agricultural College has figured that $150.00 invested in a good pure-bred bull earns in six years nearly 1,000 per cent profit in the increased production alone, not taking into account the increased value of the herd.
In what other way can you invest $100.00 or $200.00 so that it will pay you such profits?
Send for Free, Illustrated, Descriptive Booklets.
HOLSTEIN-FRIESIAN ASSN., F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

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WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Producing Jersey Cows
I HAVE for sale cows and heifers of the most popular producing strains, and at quite reasonable prices. Would also spare a few choice young bulls. 2 mature Shropshire rams, a number of ram lambs at farmer's prices. Geo. S. Redhead, Des Moines, Ia

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AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St N.Y.

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BUTTER WHICH NEEDS NO COLORING
Is produced from the Cream of
THE GUERNSEY COW
Can we tell you about it?
Write us.
The American Guernsey Cattle Club,
Box I. H. Peterboro, N. H.

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I will sell you, just as I have hundreds of others, my hardy, northern-grown trees from the nursery row at one-half the price you pay agents for poorer stock that has been out of the ground for days or weeks.

I ship direct from the ground on the same day the trees are dug. The trees you buy of agents have been out of the ground often three weeks. That is why they don't grow. Buy direct of me and you will be satisfied.

TRANSPLANTED

100 EVERGREENS $7.50

Express Prepaid.

These trees have been transplanted and root-pruned, insuring an abundance of fibrous roots—nature's guarantee of life to young trees. They are backed by the fairest guarantee of any nursery in the United States and by the forty years' reputation of "Iowa's Greatest Evergreen Specialist."

We can also sell you very cheap prize-winning

"True-to-Name" Fruit Trees

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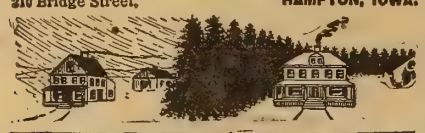

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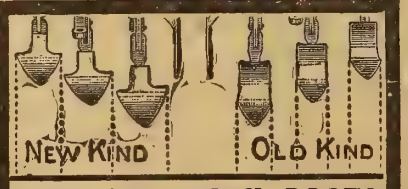

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SEED CORN Reid's and Golden Eagle, a cattle corn, deepest grain and smallest cob grown, September picked and dried on hangers, best type and germination. Crated, $3.75. Shelled and graded, $2.75. Send for circulars. W. C. BRYANT, PRINCETON, ILLINOIS

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Clover Timothy, Barley, Sweet Corn and Field Corn, Pumpkin, Swedish Red Oats, Watermelon Seed, Alfalfa, Millet, Cane. Write for prices and sample. Satisfaction guaranteed. Hawkeye Seed Co., Lockridge, Ia.

250 Strawberry Plants $1

OR 100 evergreen seedlings $1.00, or 75 raspberry plants $1.00. Write for catalog and premium list. Address West Side Nursery, Box 1, Postville, Iowa.

SEED POTATOES FOR SALE—Pure-bred, best varieties. Address Guy Anderson, Ogdensburg, Wis.

HORTICULTURE

THE FORMATION OF "FROST POCKETS."

To the Editor of The Homestead:

The farmer of the upper Mississippi valley who is planning to put in a young orchard this spring should use judgment in the selection of its location, so as to avoid the danger of early freezing of the buds.

The best location for an orchard, where it will be safest from early spring frost and freezes, is somewhat difficult to determine, because weather conditions differ from spring to spring. Conditions might be such occasionally that the best place for an orchard would be on the north side of a gradually sloping hill, in order that the natural coolness of the air and north wind on that side of the hill might keep the fruit trees from blooming out until all danger from frost was over, but undoubtedly the location in which an orchard will be safest during average spring conditions is on the south slope of a long hill, with the summit of the hill covered with forest trees.

But such an orchard should not be in a depression, with hills all around it. Neither should there be a thick forest of tall trees on the southeast, south and southwest sides of the orchard. Rather should the country be open on these sides, so there may be a free run-off for the cold, damp air on early spring nights. It is especially necessary that on clear, cold, somewhat damp nights there should be some breeze stirring in an orchard, so as to keep frost from forming, otherwise the orchard is bottled up in a kind of pocket, which keeps the air from circulating except in an up and down direction, for when the earth is cooling there must be some circulation in the air, even though not enough to be perceptible. Warm air is rising, cool air is falling, but the stirring may not be sufficient to prevent the condensation of the moisture into dew and the resultant frost.

With a free, wide run-off for the air on the south side of an orchard, a low valley, with hills on the north and northwest side, is perhaps as good a location, taking one spring with another, as can be selected, while if there is no run-off for air through a valley or wide gap between hills on the south side it is about as bad a place as can be chosen. Trees naturally bloom earlier in valleys than on high hills or the north side of hills, and if conditions are right on the south side the blooms and buds have a better chance to escape freezing than anywhere else.

You will notice along creeks, small rivers and other streams with low bottom land on both sides, that trees, vines and shrubbery put out young leaves earlier than trees on uplands, and these tender buds and leaves in the swamps are seldom frost bitten, but this is because there is generally some slight current of air blowing up and down these streams, which keeps the air a little warmer than if it were still, and also keeps dew and frost from forming. Were it not for this free circulation of air up and down these streams the tender leaves and blooms would very often be killed back, just as they would in upland regions where thick timber and hills surround a depression, because a "frost pocket" would be formed containing cold, still, damp air.

These principles are of great importance to the man who is planning to set out a young orchard of valuable fruit trees this spring, but it is also important to the man who already has an orchard of good bearing trees, for if it is in a valley with no southern outlet through which the air can flow off freely he should proceed at once to improve conditions on this side of his orchard. If he has been unfortunate in having his fruit buds and blooms frozen often during different springs he may be pretty sure it has been because there is no southern outlet for the air to circulate through his orchard.

If a timber tract covered with tall trees lies to the south of his orchard, a tract belonging to a neighbor, it would pay him to buy the tract, even at a stiff price, cut down the trees and put the new ground in some annual crop. This is vitally important in the case of early blooming fruit trees.

I. Motes.

A PEACH ORCHARD FROM SEED.

To the Editor of The Homestead:

One of the best and most enduring peach orchards in the state of Texas was grown from seed, and the fruit is not the little seedling knots usually found in fence corners. The seeds were planted where they were wanted and later the young trees were budded to the desired variety. In some cases these seedling trees proved to be valuable acquisitions and were not budded. Most fruit growers will say that this method entails more labor and expense than to follow the regular method of buying trees from the nursery and setting in the usual way; and this is a fact so far as the expense is concerned. But this orchard is yet bearing profitable crops of peaches where nursery trees set at the same time have outlived their years of usefulness.

What has been done in Texas can be done elsewhere, and it is just such methods that discover new and desirable varieties. The seed were selected from good fruit, in some instances from seedling trees, and planted in rows twenty feet apart and five or six feet apart in the row, without regard to how the cross rows would run. Where all the seed came up about a third of them were budded to some standard variety, so that the budded trees would stand at as uniform a distance apart as was possible. All through the orchard the young trees were budded every fifteen or twenty feet and the intervening trees were allowed to grow as they stood. Thus the trees stood in the row from five to ten feet apart, which would be too close after the trees had reached the age of three years. Most all the seedlings had borne some fruit by that time, and if not of good quality, the trees were marked for the ax; thus leaving room for the budded tree adjacent. More than 10 per cent of these seedlings proved to be of better quality and vigor than the budded trees along with them, and at least a third bore marketable fruit. In every instance where the fruit was as good on the seedling as on the budded tree near it, the budded tree was cut out. Thus by the fourth year, when a fair crop was to be expected, the tree stood at an average distance of eighteen feet apart, almost equally divided between the budded and the seedling trees.

This requires a little more labor than would have taken to set the trees of uniform distance at once, but gives an opportunity to select the best. If it had been desired merely to bud the trees as they stood in the row without culling them out after a trial, two seeds could have been planted in each place, and if both came up one could have been destroyed and the other budded. This would have given straight rows both ways. At least half a dozen of these seedling trees bore fruit of such marked superiority that scions were cut from them for budding trees in the neighborhood several years later.

By this method the trees will be only one year later coming into bearing, the orchard will be longer lived, and the fruit grower will have the opportunity of discovering a new and valuable variety.

Subscriber.

DESTROYING POTATO SCAB.

A Nebraska subscriber, Mr. Lewis Gardner, asks for information pertaining to the treatment of potatoes that are infected with scab. While there are a number of chemical compounds that may be used for this purpose we favor the plan of using formalin. This is an inexpensive product and when mixed with water it is not poisonous. We do not mean to intimate by this that care is not needed in handling a mixture of formalin and water, but it is not nearly so dan-

PEDIGREED Seed Corn

SOLD UNDER BONDED GUARANTEE
Our choice seed corn is grown, selected, cured, graded and tested by our experts. No guess work on quality. Our guarantee bond protects you. We give you 15 days to test it. If it isn't right send it back and we'll refund your money.

Varieties For Every Section

We ship seed corn to all parts of the world. No matter what soil or climate you have we can furnish seed corn that will make good.

Our Corn is Grown and Handled by Experts

and has behind it more than 30 years' experience in seed corn growing. We stake our reputation on every bushel that leaves this house.

Write for free seed corn circular and large catalog telling about 20 varieties.

IOWA SEED COMPANY,
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FILL YOUR SILO WITH A Rosenthal Cyclone

Automatic-Governor Self Feeding Feed Cutter and Silo Filler. Two sizes requiring 8 to 15 H. P. Emery Wheel attached to machine for grinding knives. Write for description and prices. We are the manufacturers of the Rosenthal Corn Huskers and Shredders. Address:

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I HAVE 600 bushels of equal amounts of Reid's Yellow Dent, Iowa Silver Mine and Farmers' Friend, all pure bred and raised for me and gathered in October, sorted and placed on racks, dried by hot air. Will guarantee 90 to 100% will grow; 10-day approval. Price $2.00 per bushel in crates or sack, $1.50 shelled. Write for catalog. **W. F. SHINDLEY SEED HOUSE, LEWIS, IOWA.**

REGENERATED Swedish Select oats, Recleaned 50c bu. Mandscheuri barley 75c. Clover and timothy seed. Samples.—B. S. Strayer, R. 1, Hudson, Ia.

Show Corn is Good Corn Notwithstanding.

By I. E. Proudfit, Polk County, Iowa.

A RECENT issue of your paper contained an article entitled, "Corn Shows Out Of Date," by C. R. Moore, in which the writer claims that show corn is a very undesirable corn to grow on account of poor-yielding qualities. In the same issue Mr. Redfern very ably explained the methods practiced by breeders to obtain high yields and show qualities combined and therefore I will not add anything on that point except to say that the highest yield in the acre-yield contest held under the auspices of the Iowa Corn Growers' Association in 1912, was won by a boy who used show corn for seed that had been awarded trophies and premiums the winter before.

In judging corn the size and shape of the ear have a great deal to do with the yielding ability. It is not judged from the standpoint of mere beauty, but rather utility from the market standpoint. A large per cent of our corn crop reaches the market where, at the large markets, it is graded according to our standards of judging and the top price is paid for that which scores the highest in protein or feeding value? Therefore, is not the market a good criterion? Feeding value is something the farmer cannot afford to overlook in the feeding of live stock.

This brings to my mind an incident which will bear out this point. Three years ago a prominent stock breeder knowing the difference in favor of pure-bred versus scrub stock decided there must be something to the theory of pure-bred corn. Wishing to compare it with his common corn he purchased enough of my seed for one field. At husking time he cribbed in a double crib, pure-bred corn on one side and scrub corn on the other. He was delighted with his investment, but told me how he was further convinced of its higher feeding value. The rats showed such a preference for the pure-bred corn that he decided to make a comparison and found that the kernels in the pure bred contained the greater amount of oil or protein. Nearly all agricultural papers and college bulletins explain the higher feeding value, but taking this as a lesson it seems that we should at least be as wise as the rat and prefer the best.

As to sweepstake ribbons being tied to samples unfit for seed, I am willing to admit that occasionally this might have occurred at institutes where nothing better was shown, but at old-established institutes I am of the opinion that this would not happen. Evidently the exhibitors in question had had no opportunity to acquire the knowledge of selecting seed and show corn which is only proof of the greater need of corn shows. Prize institute samples are usually sent to our state show in competition with the experienced breeder and here the owners find out where they are lacking and go home filled with the knowledge and a desire to improve their corn.

If no standard of utility were maintained how could our inexperienced farmers know whether or not they were progressing in their efforts to improve their corn or not? I had been selecting seed corn with the object of growing larger ears and increasing my yield, selecting only from outside appearances, but after attending my first corn show I found my views entirely wrong and that I knew practically nothing about selecting seed for utility or high yield. By purchasing seed the next spring from a neighbor who had won grand champion on ten ears selected from this same field, I increased my yield twenty bushels per acre and have been breeding this same corn to higher yielding ability by proper selection of seed. I am growing first instead of second quality as formerly.

In speaking of poor returns from show corn, is it reasonable that any sensible farmer would want to continue growing that kind of corn on high-priced land? The description furnished by this writer leads me to believe that if his seed was good he did not give it a square deal. Cornstalks of ordinary breeding do not break easily if sufficient plant food has been provided. Corn strong in vitality will produce, I care not what the breeding, if soil and weather conditions are favorable.

As this subscriber is very bitter over one failure where hundreds have succeeded, let us get at the bottom of the matter. Where did he obtain his show corn? What kind of soil did he plant it on and has he ever attended state shows? If he desires information some of the corn breeders could probably tell him why he failed, but if he is only a knocker, well—reconstruction is a difficult undertaking. I do not think it remains for seed corn improvers to weed out low-yielding ears, as that is something they have been doing for a number of years. If this gentleman had been attending our state shows and keeping in touch with our best breeders he would not have made this statement. As to sound corn, I will leave it to our local grain buyers whether it is the grower of pure-bred or scrub corn who furnishes them sound corn. I am in position to state for this locality, that practically all the sound or matured corn taken in at our station has a show record behind it. Nearly all the pure-bred corn raised in this locality, and there is a large per cent of it, is of the same strain from seed brought here about nine years ago by A. L. Plummer.

Speaking of luck in connection with producing a grand champion, probably it is lucky to be born with a desire to do a thing as well or better than your neighbor. Luck does not find champion corn, we only reap what we have sown. It took five years' thought and labor and a strong faith in nature's laws to produce this year's grand champion ten ears. As to the ten prettiest ears winning, should not a sample uniform in type and kernel be pleasing to the eye?

If corn shows were held for no other purpose than to create sociability and co-operation among farmers they would be fulfilling a great need and would keep us from narrow ruts. Since the one's hands in the liquid. Sometimes barrels are used, placing the potatoes in these first and afterwards pouring in the liquid until the vessel is completely filled. At the end of two hours simply pour off the liquid, spread the potatoes out so that they will dry quickly after which they may be cut at any time. If the latter plan is followed we suggest that the sacks also be given a thorough soaking because scab spores may again infest the seed after the treatment.

One Thousand Dollars Best Ten Ears of Corn Grown by Iowa Farmers

The Home Mutual Hail Association, of Cherokee, Iowa, have contributed, $1,000 to be given in extra premiums to the prize-winners at the Iowa Corn and Small Grain Growers' Association meeting to be held in Ames, Iowa, in December. Members of the Home Mutual Hail Association or those who become members prior to July 15th, will be entitled to double premiums.

These premiums will be in addition to the regular prizes offered by the Iowa Corn and Small Grain Growers' Association. The state is divided into four zones, as follows: Northern, North-Central, South-Central, and Southern. The first premium offered by the Home Mutual Hail Association in any one of the zones to a non-member of the association will be $50.00 and to a member $100. All the following premiums will also be doubled in the event of the winner being a member of the association. Second premium, $25.00; third premium, $15.00; fourth premium, $10.00, and five premiums of $5.00 each. Every farmer who becomes a member of the Home Mutual Hail Association not later than July 15th of this year will be entitled to the double premiums, if a winner.

This is rather an unusual offer for a firm who will not profit by the increased yield of corn in Iowa more than a great many others, and the company deserves great credit for the particular lines it takes to promote its business. However, when the character of the men composing the company is looked into the basis for such action is readily discovered.

The officials of the company are well-known and highly respected business men. James F. Weart, of the firm of Weart & Lysaght, who own and control a large number of lumber yards and grain elevators in northwestern Iowa, is president. R. H. Gray, of the Larrabee Savings Bank, is vice-president. Ralph Hinman, cashier of the First National Bank, of Primghar, is one of the directors. W. A. Sanford, the treasurer, has for many years been connected as vice-president, with the First National Bank, of Cherokee, one of the oldest banks in northwestern Iowa. Louis A. Wiweke, the secretary, is an insurance man of push and energy who, by persistence, has made a remarkable career in the insurance business.

The Home Mutual Hail Association has a very enviable reputation, and a large business in Iowa. They are trustworthy in every respect, and are entitled to the confidence of the farmers of this great state. They desire that prospective customers make the most careful inquiry into the honesty of their methods, feeling assured that after doing so they will be more than satisfied, and the merits of the association will more strongly appeal to them with the result that they will feel it a pleasure to become one of the members of the association. With the long years of integrity and honest dealing behind them they could hardly afford to prejudice the few remaining ones by conducting this business in any way that would bring a taint on the records they have made and they are earnestly striving in every way to merit the full confidence of their customers.

As stated above, the contest is open to every farmer in Iowa, the corn to be sent by express or parcel post prepaid during the week commencing December 22, 1913, to the Iowa Corn and Small Grain Growers' Association, Ames, Iowa, where the corn will be judged and the premiums awarded according to the rules of its membership.

Send to this association for further information before shipping corn, and for entry blank, premium list and shipping tag. For more information regarding the Home Mutual Hail Association, sample of its policy, etc., write direct to that company at Cherokee, Iowa.—Adv.

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Mail us your name and mention this paper and we will send you free one 10-cent packet of

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WHITING'S HARDY NURSERY STOCK

Choice Selections FOR THE CEMETERY

Get something that will last from year to year. Plant an evergreen tree: a spruce or a pine at each corner, or one large tree for a background. Plant Iris, Peonies, Spirea Van Houti; all hardy and bloom every year.

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1 Black Hills Spruce, 1 Spirea Van Houti, 1 Niobe Weeping Willow, 1 Rose Henry Martin, 5 Iris, 2 Peonies. We will send you this collection for **$2.50.**

We will make up a larger collection, using our best judgment for your location, for **$5.00.**

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We wish to encourage the planting of trees and the observation of Arbor Day and have planned this collection. We will select the trees for your locality.

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DRAINAGE You can drain your land without digging a ditch. Write for circular at once.
VERTICAL DRAINAGE CO., Clinton, Iowa

SEED CORN Ida county Yellow Dent. Price list, samples free. Allen Joslin, Holstein, Ia.

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95 to 100 per cent—Paradise corn; germination guaranteed. Test the corn yourself 10 days, if not satisfied return at my expense and I will refund money. This corn is an early corn. It never fails to mature. It is a deep yellow, deep heavy grain a little rough. I will send sample to any address $2.50 per bu. **John Paradise,** Barnes City, Iowa.

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world is full of knockers in every line of progression we need some stimulating to offset their pessimistic views. If we eliminate our corn shows why not our agricultural colleges? When we farmers think there is no more to be learned about corn or anything pertaining to farming our education has not begun.

TOMATOES AS A COMMERCIAL CROP.

The tomato is adapted to a very wide range of purposes in the household and to a great extent takes the place of fruit when the latter is scarce. For this reason it is one of the most widely grown of all vegetables. It is also one of the most widely used vegetables for canning purposes, as millions of cases are put up in this way annually.

When this crop is grown for market the earliest fruits always bring by far the best prices, and it is that all growers are striving for.

The first point to be considered is the seed. Carefully conducted trials have proved that seed grown in the North will produce fruit from one week to ten days earlier than seed grown in the South, and also the fruit raised from seed grown in the North will have much less seed than that from southern seed. Also when tomatoes are to be shipped the fruit should be as solid as possible and the less seed there is in a tomato the solider it will be. The grower should also find out what color the market to which he intends to ship demands, whether it is a red or pink color.

In the growing of early tomato plants little things should be carefully considered, as the way in which a plant is grown has a great influence on the crop. One point to be considered is that in order to have a good crop the plants should make a steady growth from the very start. A temperature of from 60 to 80 degrees should be maintained, as a low temperature will seriously check the plants while they are young.

Start the seed in a hotbed as early as possible or usually the second or third week in March in this locality. Have the soil well prepared in the bed and mark out rows six inches apart and about one-half inch deep. Sow the seed evenly in these rows, as nearly as possible, five seeds to the inch. If the seeds are sown thicker the plants should be transplanted as soon as the second pair of leaves appear to stand four inches apart each way. This will give them enough room to grow strong and stocky, and it is only by having properly grown plants that we can expect any success with the crop. Give plenty of fresh air and sunshine whenever the weather will permit and water the plants occasionally. It is better to have too little water than too much, as an excessive supply of moisture has a tendency to make the plants grow weak, and sometimes they will "damp off." If you have given your plants proper care they should have commenced to blossom when they are ready to go out into the field, which is about the end of May for the northern states.

The tomato is adapted to a wide variety of soils, but when growing for the early market a rather light, sandy loam is to be preferred.

If the soil is not very high in fertility, fertilizer should be applied that will be immediately available to the roots. For this purpose well-rotted manure can be put into the hill where each plant is to stand, and if a small handful of nitrate of soda is mixed with it will make it all the better.

The ground should be plowed quite early in the spring and worked over several times before the plants are set out. By so doing you will not only have killed most of the weeds, but will also have preserved all of the moisture, which is quite essential to the crop.

The setting out should not be done until the nights are warm and danger from frost is past. A warm, bright day should be selected and the work done as rapidly as possible.

In all cases the plants should be thoroughly watered in order that they may be taken up with moist soil adhering to the roots. Plants handled in this way will suffer but very little check from resetting, but will start at once into new life and vigor. Under favorable conditions new roots will form in forty-eight hours.

Cultivation should commence immediately after setting to loosen up the soil that was tramped down hard by setting out the plants. After that they should be cultivated after each rain, never allowing the soil to become hard or baked as such a condition of the soil will seriously check the growth of the plants. Cultivating should be kept up until the vines become too large for cultivating.

If the plants make too rank a growth and fail to set fruits the tips of the leading shoots should be cut or pinched off. This will cause them to set the fruit and also ripen much earlier than if allowed to grow unchecked.

The cultivation of the late or main crop is about the same as for the early except that main crop varieties may be used and the seed need not be started until the first part of April.

A source of much profit to many growers is the picking of all fruits that have commenced to turn in color before fall frosts. These fruits are wrapped in paper and placed on shelves in a cool cellar or room. In this way they will continue to ripen as late as December and often growers receive as high as ten cents per pound for the product.

GIVING PLANTS AN EARLY START

To the Editor of The Homestead:

To give such plants as sweet corn, watermelons, cucumbers and other early spring products a good start in advance of the season at which they usually are planted, we proceed as follows:

Take small, thin crates, pasteboard boxes, low tin cans, etc. Remove the bottoms from them, setting them on a six-inch layer of good soil in a large box. These little cans then are half filled with good, rich soil, and several seeds of whatever we are planting are placed in each can or box. These are covered with about a half inch or a little more of dirt and gently packed down.

The box is kept in a moderately warm room, being set in the window by day, to supply them with the essential light. On warm days the box is set out in the air and sunlight, but care must be taken that the seeds do not chill. Once a day, or as often as they seem to require it, the seeds are sprinkled with water. The surface soil also is stirred occasionally, to prevent its becoming hard or baked, which would retard seed germination.

Just before the plants come through the soil, the little cans and boxes are gently lifted from the large box and set out in rows, the dirt, seed and all, being allowed to carefully slip out at the bottom of the little boxes and are placed in shallow trenches prepared for the purpose. Some loose soil is then carefully packed around and over each hill, and in a day or two the plants burst through the ground, having a vigorous start that cannot be secured where the seeds are planted outdoors while the weather is so chill. M. Coverdell.

GROWING CAULIFLOWER.

Contrary to the general opinion this delicious vegetable can be grown as easily as a head of cabbage if proper methods are used in growing this crop. The first points to be borne in mind are that good heads can only be had by having them come before or after the hot weather, also the crop should be grown on rich, moist soil.

For the first or early crop the seed should be started in the hotbed or boxes indoors in March, sow the seed thinly and when the second pair of leaves have started transplant into other boxes or beds to stand four inches apart each way, give plenty fresh air and sunshine whenever the weather will permit so that your plants may grow strong and stocky, as if your plants are weak and spindling the chances for success are very small.

As soon as the ground is warm or usually about the end of April the plants may be set out into the garden to stand two and one-half feet apart each way. When taking up the plants have the ground well saturated with water so that the plants may be taken up with plenty of soil adhering to the roots. The plants will then suffer very little check from transplanting. If the ground is at all dry at the time of setting out the plants should be watered frequently until the plants

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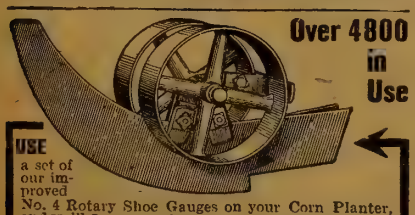

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are well started. Commence cultivating as soon as the plants are set out and keep the soil fine and loose at all times to preserve as much moisture as possible. If your ground is not in a high state of fertility a shovelful of well-rotted manure should be put under each plant.

For the late or fall crop sow the seed in a finely prepared seed bed about the end of May. Sow the seed quite thinly cover one-fourth inch deep and cover the seed bed with a cloth or laths until the plants appear above the ground. By sowing the seed thinly in the seed bed the plants can be left there until large enough to set out into the garden thus saving one transplanting. When the plants are of good size they may be set out into the garden as directed above. Usually at the time of setting out the plants for the late crop the weather is hot and dry and for this reason the plants must be frequently watered until they are well started. It is also a good plan to shade the plants for a few days after they are set out. If a rainy day can be had at the time of transplanting it will be a great advantage.

In order to have heads of the finest quality the plants should make a rapid growth and this can be greatly encouraged by frequent deep hoeings or cultivations and by watering liberally during dry weather. As good cauliflower seed is very expensive it pays to sow the seed thickly and evenly and to give the plants proper attention. The heads are soon discolored if the sun is allowed to shine upon them while they are protected and for this reason as soon as the hands commence to form the leaves should be tied together loosely near the top.

Success depends to a great extent on the quality of the seed you sow, and for this reason only the best seed obtainable should be used.

Deterioration in Wheat Yields Due to Root Rots.

By H. L. Bolley, Botanist N. Dakota Agr. College.

FOR a number of years the writer has been convinced, through his observations and experiments, that the lessened yields of wheat upon normally well cultivated, but old wheat lands of the Red River valley and various other spring wheat areas of the Northwest, are not due wholly to soil deterioration as to available plant food. It is, however, quite commonly asserted and has been the usual belief that such reduced yields should be largely attributed to a loss of available nitrogen in the soil.

My experiments, consisting of carefully planned plantings under greenhouse and field conditions, upon virgin soils and old wheat soils, covering a number of years and conducted for the purpose of trying out various ideas as to the cause of such crop deterioration, have each year given results of such nature as to convince me that one of the chief causes of the gradually reduced yields in the case of the wheat crop is not directly associated with a deteriorated nitrogen condition, but is brought about primarily by specific crop diseases which are more or less affected by the characteristics of the soil, and especially by atmospheric conditions.

Indeed, the results of the experiments planned and executed by the department of botany of the North Dakota Agricultural Experiment Station are of such nature as to show that the chief cause of the general deterioration of the yields of wheat on Red River valley lands rests in the action of parasitic fungi, causing root rot, wilting and blighting of the straw and heads, so that even on fertile lands the yield of seed may be reduced to such extent as to deceive one into believing that the land is worn out for wheat.

Continuous wheat cropping has, in my belief, been chiefly instrumental in the introduction of wheat parasites into the soil and into the seed, and that these parasites are carried in various ways from field to field and especially are transmitted from crop to crop by way of the seed.

Through the practice of continuous wheating, soils in many cases have become infected with from one to three or four definite parasitic fungi which attack after the same manner as the flax-wilt fungi attack and destroy the flax crop on old flax lands, and therefore such wheat lands may be said to be "wheat-sick" in exactly the same sense that old flax lands have previously been termed "flax-sick."

We have found that various types of fertilizers and chemical substances applied to the soil, and various methods of treating the soil, have a marked effect upon the type of injury that these fungi are able to accomplish: For example, by special treatment of such old "wheat-sick" lands we have been able to heighten the destructive effects of the diseases upon the crop. In certain other cases we have been able to greatly modify or improve the character of the seed and straw produced.

The diseases under consideration may attack the crop directly by way of the seed, by way of the soil, or through wind-blown spores.

The destruction of the crop so far as reducing the yield of plump seeds is concerned, seems to be quite closely proportionate to the speed of maturity and to the hardness of the straw; that is to say, a stiff, harsh straw suffers less than a soft, succulent straw.

While there is sufficient fertility available in our Red River soils to produce an abundant growth of straw, the quality of the straw produced is often of such nature that when attacked by the various soil and seed-infesting fungi it is unable to resist. The result is that the grain fails to fill. In many cases the young grains are cut off from the mother plant by the action of intervening fungi before even the milk stage is reached, with the result that all of the grains of a head, or most of them are shriveled. The action of the fungi is greatly heightened by hot, moist weather and poor drainage. The fungi often attack the grain internally and usually fruit upon the straw, giving it a spotted appearance simulating a minute rust, finally giving an ashy or grayish appearance to the upper portions, when the crop does not seem to mature as it should. On "wheat-sick" lands the plants do not properly stool because the young buds or stools are soon blighted or killed. At the time of stooling the portions below the ground and extending upward to the first or lower joints of the main stems usually show a tobacco color, or creosote coloration and even though there is plenty of moisture in the ground such wheat plants will show a blighting of the tips of the leaves which lead from the diseased parts, commonly called scald or tip burn.

To lessen the loss from this cause rotate, thus giving the wheat fungi which are now known to exist in such defective fields, a chance to die out. Corn culture and other crops than cereals associated with close pasture, are most likely to give beneficial results.

Sow only plump, properly colored seed wheat, for some of the chief wheat parasites which we have been studying infest the kernels of diseased wheat plants internally, and are thus carried each year to the new crop. No diseased grains retain a normal color, shape and size. Therefore grade the grain so as to eliminate the shrunken and shriveled seeds.

Treat all seeds by the formaldehyde method; for seeds from infested wheat crops also carry the spores of the wheat parasites upon the outside of the grain, as in the case of smut, and the formaldehyde treatment easily destroys all such external spores. This is one of the explanations why treatment for the prevention of smut has always shown an increase of crop, even though the grain so treated is known to be free from smut. This method of handling seed will prevent sowing large quantities of spores of the wheat parasites upon uninfected or slightly infected soils.

Avoid so preparing the land as to produce an excess of available nitrogen or the use of nitrogen fertilizers in

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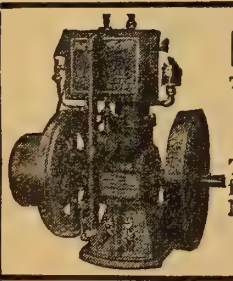

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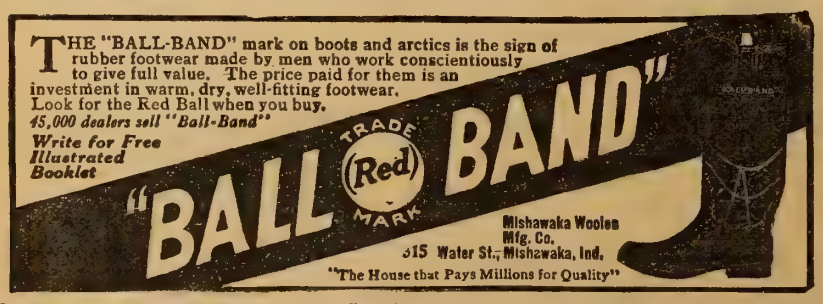

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undue amounts immediately preceding the wheat crop, unless the large available nitrogen supply is counterbalanced by phosphates or other mineral fertilizers suited to hasten maturity and harden or stiffen the straw, for wheat on such lands falls an easy prey to the fungi. A crop of corn or flax or millet upon such lands, preceding the wheat crop, will be apt to leave the soil in such condition as to conduce to the formation of a stiffer straw.

Give the soil thorough cultivation, drainage and aeration, and yet have the seed bed thoroughly compact. These are conditions which are particularly favorable to the production of the wheat plant, conditions which it can stand well, while the reverse conditions are apt to be favorable for the growth of fungi.

"CRANKY ABOUT HIS COWS."

To the Editor of The Homestead:

"That farmer is a crank about his cows," was a remark I overheard one day. It was made concerning a farmer in the community who owned a tiptop herd of dairy cows. He was making big money selling cream to a factory.

After hearing the above I took particular notice of this farmer. He was not cranky, but particular. He operated along the line of "what is worth doing at all is worth doing well." He was in love with the dairy business and treated his cows as his friends, and they were. When among them he would be patting and sleeking them with his hand, talking to them as if they could understand. And the cows as well as everything about their quarters appeared neat and clean.

The stables were airy and bright and cleanly so that the milk would absorb no odors at milking time. Every morning the cows were curried, then rubbed down with a good brush to remove all scurf from their hair. The stalls were cleaned and a fresh bedding of straw placed into them just before milking.

This man was also careful about feeding. He knew just what each cow required. The young cow was given the coarser grain while the older cow was given the ground mash. The roughness, too, for the older cows was tender and juicy. He was a liberal feeder and the cows showed their appreciation by a good flow of milk. A large tank of pure water was located in one corner of the lot, and the cows had free access to it. In the winter a tank heater was used to keep the water the right temperature. The neighbors called this special care crankiness, but it meant success.

Subscriber.

CURRENT EVENTS.

(Continued from page 7.)

committees in co-operation with the president.

THAT President Wilson will depend upon progressive republican senators for support was evidenced by the announcement last week that he had called in Senator La Follette, of Wisconsin, in conference and that he hoped to interest progressives and progressive republicans of the upper house in the measures which he is championing. Although the democrats have a majority in the senate there will doubtless be times when outside support will be necessary in order to put through Wilson's progressive measures and the president is taking time by the forelock in securing the co-operation of those to whom he must look for assistance. Since assuming office President Wilson has shown a desire to consult not only all parties, but all factions of the various parties, having within a few days had in conference such men as Senator Smoot, of Utah, reactionary republican; Senator La Follette, of Wisconsin, progressive republican, and Senator Poindexter, of Washington, an out-and-out progressive.

URGING the need of thorough organization and a continuation of work all along the line, Theodore Roosevelt addressed a conference of the progressives of Pennsylvania, at Philadelphia, last week. In one of the few speeches which he has delivered since the recent campaign, Colonel Roosevelt outlined the motives for the formation of the progressive party, in this manner: "The progressive party was founded primarily to meet the great awakening of conscience which we have seen in the American people during the last few years. Thoughtful men and women have grown to realize that it is impossible that either our present political or our present industrial conditions shall continue unchanged if the republic itself is to live and prosper. Self government is incompatible with dishonest government and a political democracy and a business oligarchy cannot permanently exist in the same country side by side." The success of the progressives in carrying Pennsylvania last year, by 50,000 votes over the democrats and 170,000 votes over the republicans, gives them hope for the future success of the party in that state, heretofore one of the strongest in the republican party. Plans are already being laid for systematic organization in townships and counties, the party proposing to enter vigorously into future campaigns.

JULIAN HAWTHORNE, son of the famous novelist, Nathaniel Hawthorne, author of "The Scarlet Letter" and "The Marble Faun," has been found guilty of using the United States mails to defraud by sending misleading literature in regard to mining claims. A sentence of a year and a day in the federal prison has been pronounced upon him. The government has been guarding the mails strictly of recent years, prosecuting men who send out unreliable reading matter tending to cause investors to put their money in unsound propositions, relying on the reputation of the men who are promoting the schemes or allowing their names to be used as figureheads. Swindles were of frequent occurrence a few years ago, but thanks to the government's activities they are far rarer today.

THE COUNTRY-LIFE MOVEMENT.

Prof. L. H. Bailey, of the New York Experiment Station, is the author of a recent work that comes out under the above title. According to Professor Bailey the country-life movement is the working out of the desire to make rural civilization as effective and satisfying as other civilization. He distinguishes this movement from the present popular back-to-the-land agitation. Some of the subject chapters in this work are: The Country-Life Movement; The National Movement; Some Interrelations of City and Country; The Decline in Rural Population—Abandoned Farms; Reclamation in Relation to Country Life; The Reserve Lands; What is to be the Outcome of Our Industrial Civilization; The Fundamental Question in American Country Life; Woman's Contribution to the Country-Life Movement; How Shall We Secure Community Life in the Open Country; A Point of View on the Labor Problem; The Middleman Question; County and Local Fairs; The Country-Life Phase of Conservation; Personal Suggestions. We believe that those who are interested in keeping themselves up to date on such subject as are outlined by Professor Bailey will find the expenditure of fifty cents, which is the price of this book, to be a sound investment if the volume is purchased. For a time at least we are able to secure this volume for our subscribers at the price mentioned and we hope that the volume will pass into the hands of a great many of our subscribers.

The recent decision of Vincent Astor to devote some of his wealth, youth and energy to the agricultural regeneration of New York state, took the form of action in the offer to provide farmers of Dutchess county, the seat of his ancestral estate, with white Tartar seed oats at $1.25 a bushel. Old farmers say that young Astor has shown good judgment in the selection of the first neighborhood crop to be improved. Oats in Dutchess county rarely grow over three feet in height and the heads are scanty and the kernels thin. The Astor farm guarantees that its seed oats will improve the crop in the county, producing five feet of straw, with long heads and thick, plump, heavy kernels.

It always pays to increase the acre yield; it may not always pay to increase the number of acres devoted to a given crop. What you farm is as important as how you farm, and how you sell may be more important than either.

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LEGAL CAUTIONS.

Do not sign any instrument in writing unless you understand it thoroughly. If you are of sound mind and can read, no court will permit you to avoid a written instrument you have signed upon the ground that you did not fully understand it.

In business do not try to get something for nothing. When you do so you are playing the other fellow's game. No one deals with you solely for your benefit. There is no sentiment in business.

Do not give your promissory note to a stranger for something which he promises to deliver to you in future. He may be neither honest nor financially responsible. He may sell your note before it is due, for a valuable consideration, and fail to deliver the goods, and you will nevertheless be liable for the amount of the note.

When making a written contract with a firm or corporation, through its agent, do not rely upon a verbal statement or promise of the agent when it differs from the written contract. If there should be a suit upon the contract, the law would not regard such verbal statement or promise as valid or binding.

Do not rely upon the verbal guarantee of any agent who sells you something, as to its quality or condition. Such guarantee will not be binding on the principal, unless it was duly authorized, and this is often very difficult to prove.

Do not depend upon a mere verbal guarantee in any case. It is always difficult to prove, and witnesses are generally forgetful and indifferent. It is easy to put a guarantee in writing which fixes the responsibility without other evidence.

Do not depend upon the guarantee of a firm or company, as to the condition or quality of things sold to you, unless you are satisfied that the firm or company is financially responsible and that its general course of dealing is honorable. The same caution is applicable when dealing with private individuals.

Do not be persuaded against your better judgment to sign a note as surety for a friend. In the language of Solomon, "A man void of understanding, striketh hands and becometh surety in the presence of his friend." And again, "He that is surety for a stranger shall smart for it, and he that hateth suretyship is sure."

When a written contract is made, do not allow the other party to carry it away. Have it made in duplicate, so that each party may keep a copy.

LAW QUESTIONS CONSIDERED.

PAYMENT FOR BULL'S SERVICES.

Mr. Roy Vaughn, Selma, Iowa.—Last summer I bought from a neighbor a cow that was with calf by a bull owned by another neighbor. Nothing was said as to who should pay for the service of the bull. Who is legally liable for it?

Answer.—The man from whom you bought the cow is liable for the service fee to the owner of the bull. The law of Iowa does not provide for a lien to secure payment for the services of a bull. There is a lien law as to stallion services.

WILL—ESTATE FOR LIFE—WIDOW'S RIGHT.

An Iowa Subscriber.—A and B were husband and wife. Neither one had any property when they were married. They worked together and accumulated eighty acres of land. A died leaving a will by which he gave all his property to B during her lifetime. B accepted the will and it was probated. After a number of years B wants her one-third of the property, so she can leave it by will to persons whom she desires may have it. Can she do this?

Answer.—We assume that the property was in the name of the husband when he died and B having accepted the terms of the will gave her only a life interest in the property, that is, the right to use it and receive the rents and profits of it during her life. She could, of course, sell this interest, but the purchaser would have to give it up at her death, and there is no way for her to get one-third of it absolutely so she could will it to anyone after her death. She could have refused to accept the will in the beginnning and then she would have been entitled to one-third but not now.

DIVISION OF PROPERTY AMONG HEIRS.

A Subscriber, Fairmount, N. D.—A man died leaving four children and real estate to be diivded between them. The youngest girl is not yet of age. Suppose she should get married, could the real estate be divided right away?

Answer.—Where real estate is left to heirs and one or more of them are not of age, they are not thereby prevented from dividing the property. Legal proceedings can be brought to have partition made of the property, and the heirs who are under age will have to have a guardian appointed by the court to act for them in said proceedings and represent their interests, and division of the property will then be made as if all the heirs were of full age.

BOUNDARY LINE—PARTITION FENCE.

A Subscriber, Swan, Iowa.—I own the southwest quarter of a section of land in Iowa and B owns adjoining land on the south and east. There is no road between our farms and the fence is not straight; part of the fence is on my land and part of it on B's land. I have owned my place two years and B has owned part of his place one year and part of it six or eight years. (1) I want to build a new partition fence. Must I place it where the fence now stands, or set it in line with the corner stones? (2) If a surveyor is required to locate the corners, must I bear all the expense? (3) Part of the partition fence on the south line of my land is hog tight. B pastures hogs and I pasture sheep. I wish to have a sheep-tight fence on the rest of the division line and will make my part this spring. Can I compel B to make his part sheep tight?

Answer.—(1) If the corner stones were regularly established and you and B agree as to the corners the fence should be set on a straight line between them, but if you do not agree as to where the corners or line should be, then the only way to settle the matter is a proceeding to be brought by either of you in the district court to establish the boundary line and until that is done you would have no right to change the location of the fence without B's consent. (2) If a surveyor is necessary to fix the boundary line each party must bear half the expense. (3) When you shall have completed your part of the fence, notify B to do likewise and if he refuses to do so request the fence viewers to meet and order him to make his fence and it will be their duty to do so, and if he fails to comply with the order you may make the fence and unless he pays for it you can recover double the cost from him.

NO INSPECTION NECESSARY.

A Subscriber, Inman, Neb.—I expect to move from Nebraska to Michigan about the last of March and will take with me some horses of mixed breeding, none registered or eligible to registration. Does the law of Michigan require that such animals be inspected or tested in moving them to that state?

Answer.—It does not.

Ask your neighbor to subscribe to The Homestead.

What an Engine Did

By R. E. Olds, Designer

My fame as a car builder, after 26 years, is based in large part on my engine.

To me it's an old, old story. Perhaps it is new to you.

A Lifetime

I was one of the world's first builders of gas engines. Long before the days of automobiles, the Olds Gas Engines were known half the world over. And they are today.

It has taken a lifetime to develop an engine like the one in Reo the Fifth. And even my rivals concede it to be one of the great engines of the world.

My catalog states all the details about it. I won't bother with them here. But the fame of this engine is based on four things:

Its unusual power—

Its enduring silence—

Its remarkable endurance—

Its ease of adjustment.

Radical Tests

We avoid trouble for you by putting each engine to five radical tests in our factory.

Each is run for 10 hours with outside power, then another 10 hours with its own power. Then we take it apart and inspect it.

Then it is made to run a blower, and tested at various speeds. Then it runs an absorption dynamometer, as a measure of its power. Then, in the finished car, we give it the hardest sort of road test.

These tests require 48 hours. But thousands of these engines, run for years and years, are still in prime condition.

We use on this engine, to save ignition troubles, a $75 magneto. And we doubly heat our carburetor, to deal with any gasoline.

So Everywhere

In every part of this car we use the same precautions.

The steel is twice analyzed.

The gears are tested to stand 75,000 pounds per tooth. The springs for 100,000 vibrations.

We use 190 drop forgings.

We use 15 roller bearings.

The tires are 34x4.

Each body gets 17 coats.

When you get a car built like Reo the Fifth there is very small cost of upkeep.

Unique Control

We use in this car the only center control which is simple and out of the way.

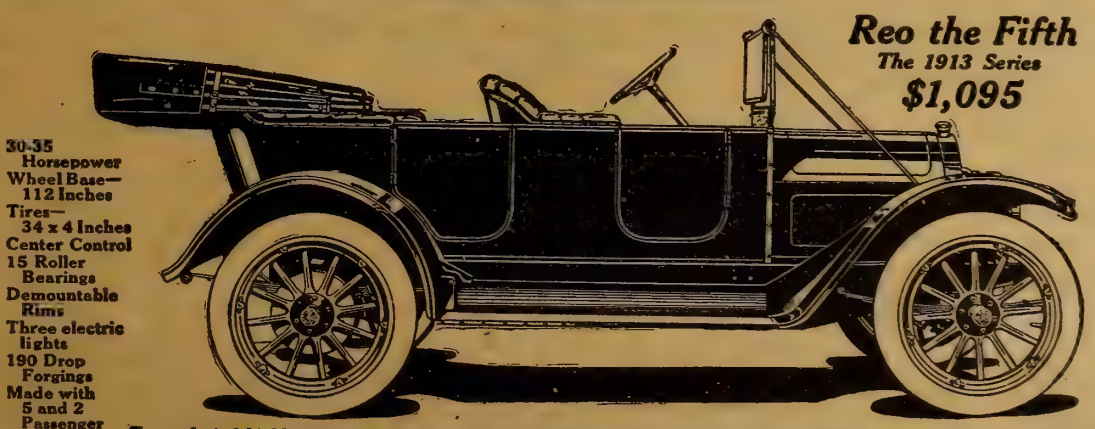
All the gear shifting is done by moving a small rod only three inches in each of four directions.

There are no levers, side or center, so the front is clear. Both brakes are operated by foot pedals.

And in this car you find the left side drive, as in the finest cars this year.

Write for our catalog and we'll direct you to the nearest showroom.

R. M. Owen & Co., General Sales Agents for Reo Motor Car Co., Lansing, Mich.
Canadian Factory, St. Catharines, Ont.



Reo the Fifth
The 1913 Series
$1,095

30-35 Horsepower
Wheel Base—112 Inches
Tires—34 x 4 Inches
Center Control
15 Roller Bearings
Demountable Rims
Three electric lights
190 Drop Forgings
Made with 5 and 2 Passenger Bodies

Top and windshield not included in price. We equip this car with mohair top, side curtains and slip cover, windshield, gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for $100 extra (list price $170).
(Gray & Davis Electric Lighting and Starting System at an extra price, if wanted.)

WE START YOU IN THE CHICKEN BUSINESS FREE

To prove that we have the biggest money maker ever invented we will send you freight paid, for 40 days' trial, *without obligation to buy*, a

"SIMPLICITY" COMBINED **HATCHER & BROODER**

Fill it with eggs. Try it. Count the chicks. Note how strong and sturdy they are and how perfectly the brooder takes care of them. Made of all metal. Guaranteed. Failure impossible Averages better than 85 per cent hatches Send it back if not delighted and the experiment will not cost you a cent. Write today.

Indianapolis Corrugating Co., K Street, Indianapolis, Ind.

$7.55 Still Buys World's Champion 140-Egg Incubator

We ship quick from St. Paul, Buffalo, Kansas City or Racine.

Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder, **$4.85.** Ordered together, **$11.50.** Freight Paid (E. of Rockies). No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time. Jim Rohan, Pres.

Belle City Incubator Co., Box 52, Racine, Wis.

140 Chicks from 140 Eggs

This World's Championship Record is not uncommon with users of my **Belle City** incubator. Many are doing this right along. The United States government is one of my 201,840 **Belle City** users. Make **Sure** of **Success** by using my **proof-backed Belle City.** Write me for all of the proofs or order direct from this ad. Jim Rohan, Pres.

Belle City Incubator Co., Racine, Wis.

WANTED!

The Johnsons want your name and address to send you their 1913 Old Trusty Book Free.

JOHNSON has started 400,000 others to big poultry success. He will start you too. Write your postal now—get Johnson's price and big fine book.

30 to 90 Days Trial — Less Than $10

Johnson, Incubator Man
Clay Center, Neb.

Mandy Lee

New Principles in Incubation. Every feature automatically regulated—heat, ventilation and moisture. The **Mandy Lee** is certain, simple, easy to operate. No chance for mistakes, simply follow plain rules. Chicks large and vigorous, the kind easily raised. Write for free books on incubator and Lee's famous Germozone, Lice Killer and Egg Maker.

GEO. H. LEE COMPANY,
1173 Harney Street, Omaha, Neb.

TELLS WHY CHICKS DIE

J. C. REEFER, the poultry expert of 1630 A Main St., Kansas City, Missouri, is giving away free a valuable book entitled "White Diarrhoea and How to Cure it." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98% of each hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable FREE books.

CHOLERINE KEEPS US HEALTHY

Cholerine is a Poultry Tonic, Blood Purifier, Body Builder and Egg Producer, all in one. Your money back if it does not give satisfaction. Dealers everywhere. Address

GERMO MFG. COMPANY, SEDALIA, MO.

NOLAN LICE KILLER

Send for our booklet telling how, after many years of trial to secure a remedy for our own use, we found a successful exterminator of Lice, Mites, Bed-bugs, etc., on poultry and live stock. It is absolutely guaranteed and is now quite well known over the state. Endorsed by prominent breeders, fanciers and hotel keepers. The book is free. You will learn how to get rid of the vermin on your live stock and bed-bugs from your home. Address

NOLAN BROS., RUTHVEN, IOWA.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

F. K. REMEDY CO. 700 2d St. Arkansas City, Kan

$4.95 = AND IT'S YOURS

NEW MANKATO

Direct from factory. 18 years experience. Safe, sure, simple. Redwood, triple walls, asbestos lined. Copper hot water heating tank, self regulator, automatic ventilation, safety lamp, nursery, tested thermometer. Comes all set up, ready to start. Write for free Catalog and Poultry Book. Address

Large Size $8.25

Mankato Incubator Co., Box 827 Mankato, Minn.

Mathewson Miteless Chicken Perch. Can take out to clean hen house and put back in 3 minutes. Send $2 for plans, specifications and right to manufacture for own use. Anyone can make them. George Mathewson, Shickley Neb.

When writing to advertisers please mention The Homestead.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

FEEDING POULTRY FROM THE GROUND.

To the Editor of The Homestead:

The method of feeding poultry from the ground has for a long time been condemned by the best authorities, but still it is yet practiced too much. Especially is this a dangerous method of feeding wet food. The ground where poultry is kept, although it may appear to be perfectly clean, contains much pollution and filth, more or less of which is picked up with the food. This may cause various diseases to start in the flock with great losses. This is very often the case and the poultryman sees no apparent reason for a disease starting. Sand, gravel, and grit are necessary for the poultry and even clean, fresh ground will not hurt it, but it is the disease and filth-laden soil that causes the trouble.

While such feeding is very dangerous to the old chickens it is still more so for the small ones and every year thousands of little chickens die from diseases contracted in just this way. Their bodies are so weak that they cannot resist the germs taken into the system in this way. This is one of the frequent causes of bowel troubles and general weakness which is so prevalent among young chicks. Perhaps the reason for this is that chicks are more frequently fed wet food than the older chickens and so are more apt to pick up a greater amount of this filth with their food.

We cannot be too careful about feeding the poultry on a clean place. They should be fed from a trough, hopper, dish or a cleanly swept platform. The poultryman who exercises a little care along this line in feeding will be well rewarded. It is one of the first very important things toward the prevention of diseases.

Kansas. Gregor H. Glitzke.

HOW TO DETECT THE LAYERS.

To the Editor of The Homestead:

I have not used trap-nests nor kept individual accounts with hens as layers, but to be sure that I keep no drones I have a little red paint in the chicken house, and in the fall I dab a little paint on the back of a hen when I find her on a nest. After a time when we want a chicken for the table I get one that is not marked. By this means I have nothing but layers by the time winter fairly begins. My flock of forty hens and pullets did well through the winter. From February 9th to 15th inclusive. I gathered sixteen and one-half dozen eggs and the next week sixteen dozen. In my breeding pen are two hens and seven pullets and for the last week they have laid seven or eight eggs every day. I have utility chickens. I am not in the fancy poultry business but am trying to work up a good-looking flock. J. W. Cheney.

Van Buren county, Iowa.

POINTERS.

—**Frank A. John**, Bedford, Ia., quotes prices on Light Brahma eggs in his advertisement appearing elsewhere in this department.

—Elsewhere in this department of The Homestead Mrs. Frank Bender, Clearfield, Iowa, is offering Single Comb Buff Orpingtons for sale.

—The advertisement of I. J. Hay, Mingo, Iowa, quoting prices on White Wyandotte eggs, will be found elsewhere in this department.

—The advertisement of C. D. Jackson, Grinnell, Iowa, offering Rose Comb Rhode Island Red eggs for sale appears elsewhere in this department.

—Earl Walgren, Lockridge, Iowa, quotes prices on Indian Runner duck eggs in his advertisement that appears elsewhere in this department.

—The advertisement of Adelia Hillman, Lockridge, Iowa, offering Single Comb Buff Leghorn eggs for sale, appears elsewhere in this department.

—Pure-bred Light Brahmas are offered for sale by Mrs. J. M. Dries, Ashton, Iowa, in her advertisement that appears elsewhere in this department.

—Full-blooded fawn and white Indian Runner duck eggs are advertised for sale elsewhere in this department by Miss Effie McMullen, Grand River, Iowa.

—Under the Leghorn and turkey heads in this department will be found the advertisements of Mrs. Mary Culver, King City, Mo., offering White Leghorn eggs and White Holland turkey toms and eggs for sale. Write her for free catalog.

—Elsewhere in this department is the advertisement of Mrs. J. E. Brooker, Van Meter, Iowa, quoting prices on Rose Comb Rhode Island Red eggs.

—If wanting to purchase Silver Laced Wyandotte eggs read the advertisement of C. W. Perkins, Fairmont, Neb., that appears elsewhere in this department.

—In furnishing copy for her advertisement that appears elsewhere in this department, Mrs. Elsie Noble, New Boston, Ill., writes: "I have a choice flock of Barred Plymouth Rocks that have farm range; they are large, with broad backs, yellow beaks and legs, having been bred for size and bone as well as scoring. All eggs will be

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

GOLD MEDAL STRAIN BLACK LANGSHANS, high-scoring birds; eggs $1.50 per 15. Address A. KOOL, Cordova, Iowa.

BLACK Langshans, winners Keosauqua, Ottumwa, Fairfield; score 93-95. I. R. Ducks, score 95-97½, farmers' prices, cir. Bert A. Randell, Mt. Zion, Ia.

EGGS, B. and W. Langshans, S. C. Buff Orps., Lt. Brahmas, R. C. R. I. Reds, from high-scoring stock. 15, $1.50. Mrs. S. E. Newell, R.6, Audubon, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3,4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

BLACK LANGSHANS Large-boned cockerels $2.00 each. Three $5.00 Eggs in season. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

Black Langshans Ckls. all sold. I am booking orders for eggs now. Birds scoring 90 to 95 points. CAP OAKS, Adair, Iowa.

BLACK LANGSHAN EGGS for hatching, Fine, large-boned, farm stock. 75c per 15 or $4 per 105. Mrs. Jacob Conner, Sigourney, Ia.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

EGGS from full blood Black Langshan. Stock unusually large. Good winter layers. 15 for $1. Orders filled now. Mrs. Chas. Banks, Carlinville, Ill.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

TURKEYS

MRS. J. E. BAXTER Walnut Grove, Minnesota, has Mammoth White Holland turkeys for sale. Toms $5.00, hens $3.00. Write your wants.

MISSOURI KING and GIANT M.B. turkey hens; toms all sold; eggs $5.00 per ten. Also B. P. Rock eggs from prize stock, 45 eggs for $2.00. Address Henry Schlatter & Sons, Lawler, Iowa.

M. B. TURKEY EGGS $2.75 for nine. Pekin duck eggs $1.75 for 11. MRS. A. KITSON. - AUDUBON, IOWA

M. B. TURKEYS, standard wt. and quality, 2 pens by 41-lb. old, 35-lb. young tom. Heavy boned. 10 eggs $4 and $3. Catalog. M. Henningsen. Dike, Ia.

EGGS AND TOMS---Large White Holland Turkeys Mary Culver, R. 1, King City, Mo.

Bourbon Red Turkey Eggs $3 per 10. Buff Rock eggs $1.50 per 15 by parcel post. Address Mrs. Chas. O. Garrett, Mitchellville, Iowa.

26 TO 28-pound M. B. turkey eggs. Guaranteed to hatch. Orpington and Hamburg eggs $1.50 for 15. Address Steve M. Morlan, Plano, Iowa.

MAMMOTH WHITE HOLLAND TURKEY eggs from stock winning 1st premiums at Iowa State Fair, 1912. $3.50 per 10. Longworth's, Polk, Ia.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

SQUABS.

SQUABS, large profits. I have the finest lot of breeding homers for sale I have ever offered. Send for price list. Joe F. Nolan, Ruthven, Iowa.

GEESE.

TOULOUSE GEESE Toulouse geese eggs from very large-framed birds, weight 20 pounds and over, 6, $1.50; 18, $4.00. Address FRANK A. GOULD, Rockwell City, Iowa.

TOULOUSE GEESE EGGS for sale from extra large birds. Per sitting of 6 eggs $1.50; 3 sittings $4. Frank A. Gould, Rockwell City, Ia.

FOR SALE Toulouse goose eggs at 20 cents each. Good marked birds. Address A. B. Summerville, Monroe, Iowa

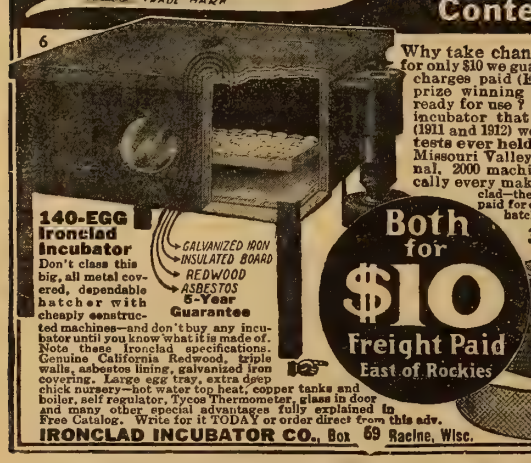
Egge from Mammoth Toulouse Geese $2 for 10. A few ganders left. Address Ethel H. Shaw, R. 6, Newton, Iowa.

MAMMOTH TOULOUSE GEESE. Eggs sold from old geese only. Geese weighing 52 pounds. Also White Rocks. M. Lippert, New Hampton, Ia.

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and SingleCombs. Elmwood Poultry Farm, Blakesburg, Ia.

Ironclad TRADE MARK **Wins in the Two BIGGEST HATCHING Contests Ever Held**



140-EGG Ironclad Incubator

Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this adv.

GALVANIZED IRON
INSULATED BOARD
REDWOOD
ASBESTOS
5-Year Guarantee

Why take chances with untried machines when for only $10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the greatest hatching contests ever held. In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid for only $10, Mrs. C. F. Merrick, Leckney, Texas hatched 148 chicks from 148 eggs in 1912 contest

Both for $10 Freight Paid East of Rockies

30 Days' Free Trial Money Back if not Satisfied.

140 Chick Brooder

IRONCLAD INCUBATOR CO., Box 69 Racine, Wisc.

Feed Growing Chicks Right

They must be furnished with the right kind of material if they are to make satisfactory growth of muscle, bone and feather. Profit lies in quick growth and early maturity. Rush those cockerels to marketable size and turn them into cash before prices fall. Get the pullets completely developed and ready to fill the nests with fall and winter eggs.

Pratts Baby Chick Food

contains just the necessary ingredients to give them during the first three weeks the best possible start, at a cost of 1c per chick. In boxes and bags, 25c, 50c, $1 up. After the third week mix

Pratts Poultry Regulator

in the ration to aid digestion and make the greatest gain for every pound of feed consumed. 25c, 50c, $1. 25-lb. Pail, $2.50.

"Your money back if it fails."

Our products are sold by dealers everywhere, or

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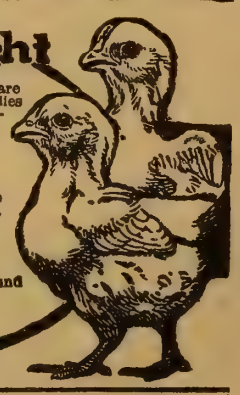

WHY INCUBATOR CHICKS DIE.

THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The cause and tells of a cure. **Book Absolutely Free for the Names.**

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA.

PLYMOUTH ROCKS.

White Plymouth Rock Eggs

PEN No. 1 is headed by 1st cockerel at Grinnell. Pen No. 2 is headed by a cockerel that was sired by a cockerel that was GRAND CHAMPION at Detroit, Mich., in 1912; eggs from these two pens $2 per 15. My utility flock is headed by cockerels scoring 94 and 95; all birds weigh 8 to 11 lbs. each. Utility eggs, $1.00 per 15; $2.00 for 30; $3.00 for $50;$6.00 for 100. Address CHAS. L. BERRY, Iowa City, Iowa.

EGGS from PRIZE MATINGS

I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellenbarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address
HENRY LINKE, - Wayne, Nebraska.

Barred Plymouth Rock Eggs

FIFTEEN for $1; 30 for $1.75;100 for $5. Stock scoring to 93¾. Grand in size, males weigh 10 to 12 lbs.; Blue ribbonwinners. My customers are not disappointed when chicks are grown. Hawkins, Thompson and Bradley strains. Guaranteed good hatch and safe delivery. Catalog free. Address
S. V. LATCHAM, WOODWARD, IOWA.

1898 BUFF ROCKS 1913

EGGS from 3 exhibition matings at $3 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings.
M. E. KRAFT, - Brooklyn, Iowa.

"PARTICULAR" BARRED PLYMOUTH ROCKS

THE winning and laying kind; eggs $2.50, 15; $4.30. Pen'l headed by a son of our 1st ck. S.D. State Show. Pen 2, ckl. of same line, eggs from a bunch headed by 6 choice ckls., $1.25, 15; $2, 30; $5, 100. Good hatch guaranteed. J. M. Detwiler, R. 3, Dunlap, Iowa.

BARRED ROCK EGGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

White Rock Eggs for Sale

FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100.
CHARLES GUTH, - Berwick, Iowa.

EGGS FROM QUALITY

BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $8 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

Elm Hill Farm Barred Rocks

"Weight with Quality"
SEND for catalog of matings, prices, winnings and description of stock. Address
J. E. GOODENOW, MAQUOKETA, IOWA

WHITE ROCK EGGS

EXCLUSIVE range; using cockerels of the Fishel strain; a carefully selected flock. Prices $1.50 per 15, $3.50 per 50, $5.00 per 100. Only selected eggs sent out. Address A. C. Binnie, Alta, Iowa.

Barred Rock Eggs

FROM first prize winners and pure Bradley stock. Both cockerel and pullet mating, $3 to $5 per 15. $6 per 100. Stock at all times. Write for circular.
ALBERT A. FOSTER, Russell, Iowa.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15,$1;30,$1.75;50, $2.50;100,$4. Mrs. Minnie Lenker, Wilton Junction, Ia.

BARRED PLYMOUTH ROCKS Hawkins, Bradley strains. Eggs for hatching from choice stock, large and vigorous, 15, $1; $5 per hundred. Mrs. C. H. Case, Eliston, Iowa.

BUFF ROCKS High-scoring, with trap-nest and show records. Proven winter layers. Eggs: 15,$1, $2,$2.50; 100, $5. Catalog, chicks. M. B. turkey eggs. Write M. Henningsen, Dike, Ia.

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B. Winthrop, Iowa.

PARTRIDGE ROCK COCKERELS Bred from $50 Noftzgen male $5.00 each. Address C. W. McQuiston, Monmouth, Illinois.

EGGS from Grove Hill strain B. P. Rocks. Extra good layers. From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock, R. 5, Neola, Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100,$6. Write for particulars. Grant Lynn, Spirit Lake, Ia.

EGGS from Barred Rocks bred to lay as well as quality. Special matings, range flock, satisfaction guaranteed. Harry Anderson, Beaver Crossing, Neb.

WHITE Rocks, 92 to 95¼; eggs $2.00 per 15, utility flock $1.00 per 15 or $5.00 per 100. Address
MRS. JAS. PEDLEY, R. 3, Britt, Iowa.

EGGS from H.S. Barred Rocks and S.C.R.I. Reds, $1.50 per 15, $3 per 50, $5 per 100. Also M. W. P. ducks $1.50 per 11. Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

B. P. R. eggs for hatching, from large well-barred birds. Good laying strain. 15 for $1.00, 45 for $2.25, 105 for $5.00. Mrs. J. H. Heilman, Holstein, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50,$2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

PURE-BRED Barred Plymouth Rock Eggs, $1.25 for 15, Write for larger amts. Large and well-marked birds in season. Wess Whetstine, Wellman, Ia.

B. P. R. eggs from large, fine, barred birds; good laying strain; ckls. scored 90-92½; wt. 10-12 lbs. 15,$1.50; 30, $2.25. G. J. Pfeil, R. 3, Central City, Iowa.

EGGS FOR HATCHING—B. P. Rocks, large boned, narrow barred, good laying strain. $1.00 for 15, $6.00 for 105. James H. Howarth, Moulton, Ia.

shipped promptly in especially made boxes. I also have an excellent strain of Bronze turkeys."

—The advertisement of H. B. Heathershow, Des Moines, Iowa, quoting prices on Barred Plymouth Rock eggs, appears elsewhere in this department.

—Mrs. Harry Evans, Bedford, Iowa, is offering Single Comb Rhode Island Red eggs for sale in her advertisement appearing elsewhere in this department.

—Joe F. Nolan, Ruthven, Iowa, has a fine lot of breeding Homer pigeons for sale. His advertisement appears elsewhere in this department. Send to Mr. Nolan for his price list.

—Willow Ridge, Emmetsburg, Iowa, has eggs from a high-scoring flock of Rose Comb Rhode Island Reds on which prices are quoted in the advertisement found elsewhere in this department.

—The advertisement of Mrs. Emilie Plough, Charter Oak, Iowa, offering Single Comb Buff Orpington and Indian Runner duck eggs for sale, will be found elsewhere in this department.

—Rose Comb Rhode Island Red eggs from a good farm range flock are advertised for sale by Nettie Amundson, Soldier, Iowa, in her advertisement appearing elsewhere in this department.

—Mrs. Charles O. Garrett, Mitchellville, Iowa, has an advertisement elsewhere in this department offering Bourbon Red turkey and Barred Plymouth Rock eggs for sale.

—Mrs. M. Baird, Red Oak, Iowa, can furnish Homestead readers with White Plymouth Rock eggs and baby chicks. She quotes prices in her advertisement elsewhere in this department.

—Elsewhere in this department is the advertisement of John P. McFadden, Atalissa, Iowa, quoting prices on Rouen duck eggs from pure-bred stock.

—Rose Comb Rhode Island Red eggs are offered for sale by W. P. Nicholas, Kirkwood, Ill., in his advertisement appearing elsewhere in this department.

—Orders for Black Langshan eggs will be filled any time by Mrs. Chas. Banks, Carlinville, Ill., as per her advertisement elsewhere in this department.

—P. F. Smith, Montezuma, Iowa, is a breeder of White Orpington chickens exclusively. He has eggs for sale from a flock that are bred to lay the year round.

—Dr. W. C. Cummings, Ryan, Iowa, breeds Buff Orpingtons only. He is offering eggs for sale in his advertisement that appears elsewhere in this department.

—Eggs from Barred Plymouth Rocks of the Hawkins and Bradley strains can be purchased from Mrs. C. H. Case, Elliston, Iowa, as per advertisement elsewhere in this department.

—Rose Comb Golden Wyandotte eggs can be purchased by the hundred at prices named in the advertisement of F. E. Bean, Reasnor, Iowa, that appears elsewhere in this department.

—For White Buff and Barred Plymouth Rock eggs from prize-winning show stock read the advertisement of Mrs. E. L. Henke, Atlantic, Iowa, that appears elsewhere in this department.

—Eggs from pure-bred, well-barred, heavy-boned Barred Plymouth Rock stock can be purchased from Henry Angerer, Wilton Junction, Iowa, at prices named in his advertisement elsewhere in this department.

—The Monroe Poultry Yards, Monroe, Iowa, are offering eggs for sale from a number of the most popular land and water fowl at prices named in the advertisement found elsewhere in this department.

—Rose Comb White Leghorn eggs from a strain of winter layers are advertised for sale by J. W. Osborn, Hanlontown, Iowa, in his advertisement appearing elsewhere in this department.

—L. B. Anderson Botna, Ia., quotes prices on eggs from pure-bred Single Anconas in his advertisement that appears elsewhere in this department. He will make special prices where fifty or more are ordered.

—Baby chicks form pure-bred Rose Comb Rhode Island Red and Buff Orpington prize winners are offered for sale by Mrs. L. M. Russell, Danville, Iowa, in her advertisement elsewhere in this department.

—Mrs. B. M. Painter, Lewis, Iowa, can supply Homestead readers with Single Comb Brown Leghorn eggs and baby chicks. Her prices will be found in the advertisement appearing elsewhere in this department.

—White Plymouth Rock eggs of the Fishel strain from high-scoring, prize-winning stock can be obtained from Mrs. A. Barclay, Madrid, Iowa, at reasonable prices. Her advertisement appears elsewhere in this department.

—Eggs from a grand laying strain of Single Comb Rhode Island Reds are advertised for sale by J. E. Lewis, Brayton, Iowa, in his advertisement appearing elsewhere in this department.

—Ida Seerley, Earlham, Iowa, has been a breeder of Silver Laced Wyandottes exclusively for the past twenty-five years. In her advertisement elsewhere in this issue she is offering eggs for sale.

—The attention of Homestead readers is directed to the advertisement of Mrs. J. H. Allen, New Sharon, Iowa, offering Rose Comb Rhode Island Red eggs for sale, that appears elsewhere in this department. Mrs. Allen writes: "We raised all birds we exhibited and had many more just as good at home. Our pens are selected from over 300 birds and are good stuff in any company. Will fill orders from pens from which eggs are ordered and under no

PLYMOUTH ROCKS.

OGG'S BARRED ROCKS

BEST ever. Yards headed by first cock, state show, 1912; Bradley cockerel sired by New York champion; cock, pen brother to 1st Chicago cockerel, etc. Pen eggs, $3 for 15; $5 for 30; range $2.50 for 50; $6.00 for 100. Address Mason C. OGG, Monroe, Iowa

B. P. Rock Eggs for Hatching

FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price. 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

BARRED P. ROCK EGGS Hawkins, Thompson and Bradley strains; from high-scoring, good laying stock, having farm range; heavy bone and clear, narrow barring. Males weigh 10 to 12 lbs., females 7 to 9 lbs.; 15 eggs $1.25;30,$2.25. Mrs. Elsie Noble R.2, New Boston, Ill.

EGGS From standard exhibition Barred Plymouth Rocks, Bradley strain. Pens contain many birds closely related to noted Chicago show winners, large size, splendid markings. Price $2 per 15. Also eggs from choice pen of W. Wyandottes $2 per 15 eggs. Mrs. H. J. Hess, R. 6, Waterloo, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Bachman, Blakesburg, Ia.

"RINGLET" BARRED PLYMOUTH ROCK EGGS

FROM prize-winning birds, from all pens, $2.00 per sitting. H. M. Scott, 903 Iowa St., Vinton, Iowa.

Bradley Barred Rocks and S. C. Reds

Scored, unscored. New blood for all customers. Satisfaction guaranteed. Frank Santee, What Cheer, Ia.

EGGS—Barred P. Rocks, from 10-pound female, 12-pound males. State show first-prize winners. Free catalog showing real photos of prize winners.
A. D. MURPHY & SON, ESSEX, IOWA.

FISHEL WHITE ROCKS direct. Eggs for hatching from high-scoring and prize-winning stock at reasonable prices. Address Mrs. A. Barclay, R. 3, Madrid, Ia.

WHITE P. ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

WON with my B. P. Rocks 1st, 2d P., 2d pen, 3rd hen, 3d ckl. Ia. State Fair; 2d P., B. ckl. 3d P. Cedar Rapids; silver cup, 17 ribbons at 3 other shows. Cir. free. Eggs 15,$2.50. Mrs. H. I. Branson, West Branch, Ia

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS Pure-bred Barred Rocks, $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15,$3. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

PURE-BRED White Rock eggs; birds scoring 91½ to 95¾. Pen, 15, $3.50; 100, $12. Range, 15, $1.50; 100, $5.50. H. L. NEFF, Dallas Center, Iowa.

EGGS from large White Rocks at 5 cents per egg. Address Mrs. H. Wood, Moville, Ia.

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30,$1.25;100,$3. J. M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.50 per 15;$7 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

QUALITY Barred Rock eggs foom high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BARRED Plymouth Rocks, Pekin ducks, W. H. turkeys; eggs, Rocks 15, $1.25; 30, $2; ducks 10, $1.50; turkeys, 10, $3.50. Fred Post, Moulton, Iowa.

Barred Rock eggs; bred to lay, Bradley strain, largest type, best breeding; choice pens $2 and $3 per 15; utility 15,$1.50. Mrs. S. M. Thompson, Birmingham, Ia.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

FOR SALE Eggs for hatching from select pen of Buff Rocks. Fertility guaranteed. Will A. Petersen, 1423 Cedar St., Muscatine, Iowa.

Barred Rock Eggs 15 for $1.00;45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

BARRED Plymouth Rocks, pullet mating, Headed ckls. of Latham and Winikee strains. Eggs 15 $1; 100 $5. H. V. Hethershaw, R. 6, Des Moines, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

THE FARMERS' FOWL Barred Plymouth Rock eggs for sale. Write Mrs. Fred Sievers, R. 1, Audubon, Iowa.

White P. Rock Eggs

100, $2.50; 15, $1. Mrs. O. P. Constable, Norwalk, Ia.

BARRED ROCK EGGS. Thompson's Imperial Ringlet stock direct. Also Bradley Bros. strain. Send for mating list. Mrs. Wm. Stoll, R. 10, Le Mars, Ia.

WHITE Rocks, farm raised, Fishel strain, cockerels score 93½ to 96. Eggs 15, $1; 50, $3; 100, $5. Address Mrs. A. H. Klepper, R. 1, Muscatine, Iowa.

EGGS for hatching from White Plymouth Rocks at $1 per 15; $3 per 50; $5 per 100. Farm raised, high-scoring. Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

WHITE, Buff and Barred Plymouth Rock eggs from prize-winning show stock; strictly first pen offer. Address E. L. Henke, Atlantic, Iowa.

BARRED PLYMOUTH ROCK EGGS $1 per sitting, $4 per 100. White Embden geese eggs $2 per sitting. A. A. Jaynes, Osgood, Mo.

PLYMOUTH ROCKS.

WHITE ROCKS Great layers. Flock headed by bird from Fishel's Red Eyes. 5 point comb. Eggs, 15 for $1; 100, $5. Pens $2. Baby chicks 15c. Mrs. M. Baird, R. 5, Red Oak, Iowa.

Barred Rocks Exclusively Eggs $1 per 15, $1.50 per 30 or $3.00 per 100. ASA ANDERSON, New London, Iowa.

BARRED Rocks, finely barred large boned bird to lay. Score 93. Fawn and White I. R. duck eggs, 13, $1.50; 50, $5. Charles Clarke, R. 2, Greene, Iowa.

BARRED Plymouth Rock eggs from pure-bred, well barred, heavy-boned stock. 15, $1.25; 30, $2 50; 100, $4. Henry Angerer, R. 1, Wilton Junction, Ia.

WYANDOTTES.

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address Indianola, Iowa.

Faha's Silver Laced Wyandottes Grand type. Superb lacing. Trap-nested layers. 50 fine breeding pens at $10 per pen if taken soon. Write me your wants. Frank Faha, Jr., Box 620, Dyersville, Iowa.

EGGS from high-scoring stock. White Wyandotte, Kellerstrass, White Orpington and Buff Orpington, $1 per 15; $5 per 100. Fawn and white I. R. ducks, $1.25 per 13. A. G. Dreher, Audubon, Iowa.

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, its free, John A. Johnson, R.2, Pilot Mound, Ia.

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15. $5.00 per 100. Mrs. W. F. Prather, Atlantic, Iowa.

R. C. Silver Laced Wyandottes; choice eggs for hatching from good-laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

SCALES' SNOW WHITE UTILITY White Wyandottes. Eggs for hatching, farm flock, $1 per 15; $6 per 100. Special pen, show birds, $2 per 15. N. W. Scales, Iowa City, Iowa.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $2 for 15, $3.50 for 30. R. S. Tennyson, Clarksville, Ia.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble. Mrs. M. C. Humphrey, Derby, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25;range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

PARTRIDGE WYANDOTTES Ckls. scored and unscored. Reduced prices to close out. Egg orders booked. Thos. L. Morlan, Indianola, Ia.

EGGS from prize winning, good laying strain White Wyan., $1.00 per 15,$5.00 per 100. Address E. G. Pont, Atlantic, Iowa.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

PUREST and BEST White Wyandotte eggs, $1.25 per 15; nothing better at any price. Mrs. C. Lionberger, Humboldt, Neb.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50;50 $3. Mrs. C. A. Robinson, Griswold, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Tisley, Milo, Ia.

Partridge Wyandottes. The beauty breed; eggs for hatching from prize-winning birds. Write for prices. H. Nobling, Perry, Iowa

White Wyandotte Eggs $1.00 for 15, $4.00 for 100; from state show winners. Address ETHEL H. SHAW, R. 6, Newton, Iowa.

R. C. White Wyandotte eggs, Duston strain; S. C. Buff Orpington, Martz and Adams strains, eggs $1.50 for 15. Address William Sommer, Perry, Ill.

S. L. WYANDOTTE eggs, high-scoring stock. Pens 1 and 2, 15, $1.50; 30, $2.50; pen 3, 15, $1; 30, $1.75. Address R. Palmatier & Son, Greene, Iowa.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia

PARTRIDGE Wyandotte eggs from high-scoring birds, hens up to 93¾, ckl. 94¾; pen 1, $2.13; pen 2, $1.50, 12. Circular. Edw. Meyer, Dyersville, Iowa.

BUFF WYANDOTTE COCKERELS Farmers' fowls. $1.25 each, choice breeders $2 to $3. Address Mrs. L. H. Davidson, Algona, Ia.

WHITE WYANDOTTES Eggs for sitting $1.50 per 15. My Wyandottes are better than ever. Address I. J. Hay, Mingo, Iowa.

WHITE WYANDOTTE EGGS 15 for $1; 100 for $5. Choice mating, 15 for $2.00. Address E. G. Brockway, Indianola, Iowa.

SILVER Wyandottes exclusively. 25 years a breeder. Bred for winter laying. 15 eggs $1; 100 for $5. Address Ida Seerley, Box 143, Earlham, Iowa.

WHITE WYANDOTTE eggs for hatching from farm rauge, $4 per 100; 75c per 15; satisfaction guaranteed. Mrs. J. W. Kiesling, R. 2, Cromwell, Ia.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address E. S. DYAS, Bellevue, Iowa.

SILVER LACED WYANDOTTE eggs from high-scoring birds 15, $1.50; 100, $4. C. W. Perkins, Fairmont, Nebraska.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices. R. B. Rowe, Indianola, Ia.

R. C. Golden Wyandotte Eggs $4 and $5 per 100. F. E. BEAN. - - REASNOR, IOWA

PARTRIDGE WYANDOTTES Bred from state fair winners. Beauty and utility. Eggs $2 per 15. E. R. Herrick, Glenwood, Iowa.

RED CAPS.

ENGLISH Red Caps. Eggs from imported English Red Caps $4 per sitting. These birds are direct from London prize winners. Imported stock only. Address LEE O. WOLFE, Titonka, Iowa.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS
EXCLUSIVELY

STOCK AND EGGS SHIPPED ON APPROVAL

Score Card by Chellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city.
HENRY G. WALKER, IOWA CITY, IA.

R. C. RHODE ISLAND REDS
THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.
REDS, 75 cents per 15 or $4 per 100. Pen No. 1 $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed.
J. B. HEISEL, - Grinnell, Iowa.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive circular. Address
P. H. THIEL, - Renwick, Iowa.

SINGLE COMB REDS
EGGS that will hatch, at right prices, from my prize-winning, skin-deep Reds; the kind that pays; start today with this popular breed. Send for my free mating list. L. G. Johnson, Box H, Steamboat Rock, Ia.

PRIZE-WINNING R. C. R. I. REDS Long, back, big bone, red eyes and low tail. Score 92½ to 95; won 13 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2.50 and $5 per 15. Circular free. Address C. B. Alverson, Moravia, Iowa.

$3.00 for 50 EGGS
FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culvordale Farm, Red Oak, Ia.

SINGLE COMB RHODE ISLAND REDS GET your eggs for hatching from prize winners. Four grand pens, headed by 2d, 4th cockerels, Dubuque; 1st, 4th ckls., Oelwein. Prices reasonable. Send for mating list. C. E. Hayes, Box A, Lamont, Ia.

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15, $5 per 100. Write
Mrs. W. L. Stoner, - Henry, Illinois.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed.
Address BEN F. BENTLEY, R. 2, Boone, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. RED EGGS for sale from 6 choice pens headed by show winners. When you buy here you get the best. Address O. A. Knerr, Beaver Crossing, Neb.

S. C. REDS Eggs from vigorous stock and great winter layers. Fertility guaranteed. Eggs, $1 per 15; $3 per 50; $5 per 100.
Address Woodlawn Farm, Sterling, Illinois.

MOUSER'S REDS (Both combs). Send for mating list. Fine cockerels for sale $3.00 to $5.00 each. Address
W. I. Mouser, R. 5, Red Oak, Iowa.

R. C. R. I. RED EGGS Limited number of eggs from 2 fine pens. Write for prices. John Webb, Jr., Spirit Lake, Iowa.

S. C. RHODE ISLAND RED Eggs $1.00 per sitting. Few pullets for sale. Sarah Lowe, Clarksville, Iowa.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address THE RED FARM, Luverne, Iowa.

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R. 1, Box 3, Wahoo, Neb.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address
MRS. GEO. W. GODLOVE, Riverside, Ia.

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains. Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

FOR sale. R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. C. F. BATTELS, Indianola, Iowa.

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. RHODE ISLAND REDS large size, red to the skin, a laying strain. Eggs $2.00 per 15. E. M. Thompson, Independence, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100, Address George Hunt, Earlville, Iowa

S. C. R. I. RED EGGS Pen 1 $2 per 15; farm flock $1 per 15; $5 per hundred. Address Mrs. Sophia Rader, Laurel, Iowa.

S. C. R. I. eggs. Stock all red to skin; big boned, low tail, red eyes; choice of flock of 400; eggs $1.50 per sitting, $8.00 per 100. Mrs. F. B. Dann, Dewitt, Iowa.

S. C. Rhode Island Red EGGS FOR HATCHING, choice sitting, 15 for $1.50. Other eggs 100 $6. Mrs. Geo. Turpen, Jefferson, Iowa.

RHODE ISLAND REDS.

ROSE COMB R. I. REDS
TUTTLE and Bushman eggs. High-scoring, prize-winning, good laying. Pen 1, 15 eggs $5; 2, farm range, 15, $2; 50, $5; 100, $8. 20% additional eggs furnished on orders booked next 30 days. Write for circular today. W. W. Forbes, Box 441, Jefferson, Ia.

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15; pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also F. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address E. J. DICKERSON, Ragan, Nebraska.

RHODE ISLAND REDS
EGGS from my select flock of heavy laying birds. $1 for 15; $5 for 100. Send your order at once. Mrs. Jake Waltemeyer, Melbourne, Ia.

"Allendale" R. C. R. I. Reds
AT 1913 Burlington show, won 1st cockerel, 1st pullet and 2d pen with only five birds exhibited. Mating list free. Eggs for sale. Honest Dealing guaranteed. Mrs. J. H. Allen, New Sharon, Ia.

S. C. R. I. REDS EXCLUSIVELY. EGGS from choice breeders at $1 to $5 per 15. Send for mating list. Address
J. A. Holmes, Steamboat Rock, Iowa.

RoseComb Reds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain, sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R. C. Rhode Island Red Eggs Exhibition and laying strain; 1st pen $5.00 per 15; 2d, $3; 3rd, $1.50. Fertility guaranteed. Red Poultry Farm, Randalia, Iowa.

R. C. RHODE ISLAND REDS EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

R. C. R. I. REDS Exclusive breed. Eggs from farm raised, high-scoring stock; first pen $2.00, second pen $1.00 per 15. Can fill orders at once. Write me. Mrs. S. J. Marsh, R. 5, Knoxville, Ia.

S. C. R. I. REDS—Great layers of large brown eggs; 15, 75c., 75, $2.50. Eggs guaranteed fresh. Address Mrs. Henry Queckborner, Chadwick, Ill.

S. C. R. I. RED EGGS from great laying strain that are red. $1 per 15; $5 per 100.
Address J. E. LEWIS, Brayton, Iowa.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.50 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

TOP notch S. C. R. I. Reds. Two good matings. Eggs $1.00 and $1.50 per 15. Good range flock $4.00 per 100. W. E. Briggs, R. 2, Woodbine, Iowa.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

R. C. Rhode Island Red Eggs $1.50 per 15. Good utility stock. W. P. Nicholas, Kirkwood, Ill.

Eggs for Hatching S. C. R. I. Reds, 15 for $1: 100 for $5. Address Mrs. Harry Evans, Bedford, Iowa.

EGGS from pure-blood, high-class S. C. Rhode Island Reds. 75 cents for 15; $4 for 100. Address Mrs. S. A. Spalti, Pleasantville, Iowa.

EGGS from thoroughbred Reds (either comb) 15, $1; 100, $6. Special pen $2.50 per 15. Laying hens, $1.50 each. Mrs. A. Laun, Riverdale Farm, Floyd, Ia.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

For Sale R. C. R. I. Red eggs $1 per sitting of 15; $6 per 100. Good farm range. Nettie Amundson, R. 1, Box 2, Soldier, Ia.

ROSE Comb Rhode Island Red eggs from high-scoring farm flock. $10 per 100, express prepaid.
WILLOW RIDGE, Emmetsburg, Iowa.

Eggs from Farm Range R. C. R. I. Reds 75c per 15; $4 per 100. Pen 1, $12 per 100; $2 per 15. Mrs. J. E. Brooker, Van Meter, Ia.

R. C. R. I. Reds; farm raised, laying strain. Pen scoring 91 or better 15, $3; pen No. 2, $2; range 15, $1; 100, $5. C. D. Jackson, R. 5, Grinnell, Iowa.

R. C. R. I. EGGS from choice range flock, $1.00 per 15 or $5 per 100. Can ship from DeSoto. Write for circular. Mrs. T. J. Link, R. 2, Winterset, Iowa.

DOGS.

SCOTCH COLLIES
STRONG in the blood of Buckler, a grandson of the great Southport Student. Also Parbold Piccalo by Anfield Model. These great breeding dogs at the prices ordinarily asked for common stock. Address A. A. Martin & Son, R. 4, Box 107, Lincoln, Neb.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

DE BOER & VER PLOEG Breeders of fine Fox Terriers. Write for prices. 510 Addition St., Pella, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

FOR SALE High grade Scotch Collie pups. Bargains if taken soon. Address,
T. A. GOUGH, Bristow, Iowa.

ANCONAS.

Pure-bred S. C. Ancona Eggs for Sale
$1.75 for 15, pen No. 1; $1.25, pen No. 2. Special prices for 50 or more. L. B. Anderson, Botna, Iowa.

Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

circumstances will substitute. Money will be refunded if we cannot fill orders."

—Elsewhere in this department appears the advertisement of Ben R. Poortinga, Cordova, Iowa, offering Rose Comb White Leghorn eggs from prize-winning stock for sale.

—Barred Plymouth Rock eggs from three exhibition matings and also from his farm range flock are offered for sale by M. E. Kraft, Brooklyn, Iowa, in his advertisement appearing elsewhere in this department.

—Elsewhere in this department will be found the advertisement of Mrs. Jacob Conner, Sigourney Iowa, in which she offers Black Langshan eggs for sale from fine, large-boned farm stock at very reasonable prices.

—Mrs. C. R. Switzer, Lewis, Iowa, writes: "We have a choice lot of Indian Runner ducks; they are well marked and of a good laying strain. I am ready to book orders for eggs." See her advertisement in this department.

—Mrs. A. H. Klepper, Muscatine, Ia., has a flock of White Plymouth Rocks of the Fishel strain. They are farm raised, all cockerels scoring 93½ to 96. Her advertisement offering eggs for sale appears elsewhere in this department.

—A. Kool, Cordova, Iowa, in sending copy for his Black Langshan egg advertisement elsewhere in this department, writes: "We have a select lot of hens headed by roosters that are second to none. They are of the Gold Medal strain and all high-class stuff."

—The Premium Poultry Yards, Newton, Iowa, raise forty different varieties of the leading land and water fowl. In their advertisement elsewhere in this issue they are offering eggs for sale, either by the sitting or 100.

—Elsewhere in this department of The Homestead is the advertisement of Mrs. Laun, Floyd, Iowa, offering Rhode Island Red eggs (either comb) for sale at very moderate prices. She also quotes prices at which she will sell laying hens.

—"My flock of Barred Plymouth Rocks," writes Asa Anderson, New London, Iowa, "are healthy, large, nicely marked and are of the Bradley Bros. strain. See my advertisement in this department for egg prices. Write your wants."

—Verne Argo, Tipton, Iowa, announces in his advertisement elsewhere in this department that he won 100 ribbons on his Single Comb Brown Leghorns, Single Comb Rhode Island Reds, White Wyandottes, Pekin ducks and fancy pigeons in 1912.

—In furnishing copy for advertisement found elsewhere in this department, R. Palmatier & Son, Greene, Ia., advise us that they have mated two grand pens of Silver Laced Wyandottes from which they offer eggs for sale at prices named in their advertisement.

—Harry Anderson, Beaver Crossing, Neb., has special matings and a range flock of Barred Plymouth Rocks from which he is offering eggs for sale in his advertisement elsewhere in this department. He will guarantee satisfaction and sell his eggs at reasonable prices.

—Mrs. E. P. Gaddis, Griswold, Iowa, makes a specialty of Single Comb Rhode Island Red baby chicks. She will guarantee safe arrival at prices named in advertisement elsewhere in this department. She can also furnish eggs for hatching from three fine pens at reasonable prices.

—The advertisement of Matthew Mertz, Des Moines, Iowa, in which he states he wants to buy Indian Runner and Pekin duck and Toulouse geese eggs in large lots, will be found elsewhere in this department. He also wants to buy Hamburg, Cornish Indian Game and Houdan eggs.

—Mrs. H. I. Branson, West Branch, Iowa, won a number of premiums on her Barred Plymouth Rocks at the Iowa State Fair, Cedar Rapids and other shows. She will send circular free. Prices at which she will sell eggs are named in her advertisement appearing in this department.

—"I have a farm flock of 200 pure-bred Rose Comb Brown Leghorns" writes Mrs. Laura Mather, Clarksville, Iowa, in furnishing copy for her advertisement appearing elsewhere in this department. "They will prove satisfactory to all those wishing something extra good at a very reasonable price."

—Mrs. Fred Sievers, Audubon, Iowa, states that her Barred Plymouth Rocks have the standard requirements based on the qualities required in a general-purpose fowl, also have the points deemed essential in an exhibition fowl. Her advertisement offering eggs for sale appears elsewhere in this department.

—Mrs. Henry Newcomer, Forreston, Ill., is booking orders for eggs from her choice flock of pure-bred Rouen ducks. All orders, no matter how large or small, will receive careful attention and eggs will be shipped promptly. See advertisement elsewhere in this department and when writing please mention The Homestead.

—Mrs. Will Michael, Selma, Iowa, in furnishing copy for her advertisement elsewhere in this department, writes that she has been a breeder of Single Comb Brown Leghorns for fifteen years, having added new blood each year from the yards of some of the most noted breeders. Each year she selects from eighty to 100 of her very best hens and early pullets for breeding purposes and in this way she has build up a large strain of Leghorns that are also excellent winter layers. This year she has 100 in her flock, including scored hens and winning pul-

ORPINGTONS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK
EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

Martz Strain Buff Orpington Eggs
FOR SALE—This is direct from the prize-winning stock; I have two pens mated since Feb. 15 and am now ready to ship eggs and guarantee 12 fertile eggs. Pen No. 1, $2.50; No. 2, $1.50 per 15. Address
ROY E. BULECHEK, - HILLS, IOWA.

Fortmann's Single Comb White Orpingtons
ARE strictly high class and superior type that usually is not found in White Orpingtons. 10 grand matings for this season's egg trade. Now is the time to place your order for eggs. Address
Frank Fortmann, Box 23, Dyersville, Iowa.

PROLIFIC WINTER LAYERS
BUFF Orpingtons only. I use only strong winter layers, of correct size, shape and color in my pens. Martz trap-nested strain. Eggs, $1.50 per 15; $7.00 per 100. DR. W. C. CUMMINGS, RYAN, IOWA.

S. C. BUFF ORPINGTON EGGS
CHOICE pen $2.50 per 15. Choice selected flock $1.50 per 15; $5 per 100. Indian Runner ducks, Fawn and White, eggs $1.00 per 11. Address
MRS. H. H. REED, R. F. D. 5, MARENGO, IA.

EGGS from prize-winning S. Comb Buff Orpingtons, two special pens, Martz and Rogers strains, $3.50 per 15; utility flock, free range, 15, $1.25; 100, $5.50. Also highs-coring fawn and white I. R. duck eggs, $1.50 per 13; $4.50 per 50. Jas. McKendrick, Ernie, Ia.

S. C. BUFF, BLACK AND WHITE ORPINGTON cockerels, hens and pullets. High quality, prize-winners, scored, unscored. Shipped on approval at reasonable prices. Eggs in season. E. B. Conable, Box C, Independence, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

S. C. WHITE ORPINGTON
KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock; price 15, $2. Frank G. Myers, Iowa City, Ia.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners, $2 for 15; $9 for 100; Utility flock $5 for 100 Book orders early. V. H. Conner, Shell Rock, Iowa

SINGLE COMB BUFF ORPINGTON EGGS Yard headed by high-scoring cockerels. $1.50 per 15; $2.75 per 30; $4 per 50; $7.00 per 100. Address James Sampie, Port Byron, Ill.

KELLERSTRASS White Orps.—Eggs, fertility guaranteed. Original stock hatched from eggs direct from Kellerstrass. Great winter layers. Eggs, 51, $1.25; 50, $3.50; 100, $6. Woodlawn Farm, Sterling, Ill.

S. C. BUFF ORPINGTON eggs from fine pullets mated with cockerels from high-class stock; farm range, $1.75, 30; $2.75, 50; $5, 100. Address Mrs. Frank Bender, Clearfield, Iowa.

Crystal White Orp. Eggs Prize winners in 4 shows, $2.00 to $5.00 a setting. F. R. Schwatzer, Central City, Neb.

S. C. BUFF ORPINGTON EGGS, 15, $1.25; 30, $2; 50, $3; 100, $5. Cook strain. A choice lot. Also 50 pullets. Address Dan McCarty, Winthrop, Ia.

EGGS. S. C. Buff Orpingtons, farm range, $6.00 per 100 or $1.50 per 15. Good type and color. Cook strain. Address Mrs. W. E. Zimmerman, Neola, Ia.

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

White Orpington Eggs $2.00 per 15; $5.00 per 50; $8.00 per 100. Mrs. George Aikman, R. 1, Box 30, Audubon, Iowa.

KELLERSTRASS STRAIN S. C. W. Orpingtons. Eggs from "bred to lay" prize-winning stock, $2; order early. D. B. Storck, Box 793, Cedar Rapids, Ia.

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15, $1.50; 30, $2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

S. C. W. Orpington Eggs $2 per 15, $4 per 45 or $7 per 100. Address M. D. Korns, Hartwick, Iowa.

EGGS from pure Cook strain Buff Orpingtons. Four yards, each headed by a blue ribbon winner. Write for mating list. Wm. Cook, Eddyville, Neb.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $7 per 100. Circular free. W. L. Bardsley. Neola. Iowa.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, high-scoring, 13, $2; 35, $4; 100, $10. Address B. M. HALL, Ellsworth, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Buff Orpingtons Yearlings, young stock and eggs for sale. Prices right. Glynn Poultry Yards, L. B. 69, Cascade, Iowa.

S. C. Buff Orpington eggs $1.00 per 15 and $5.00 per 100. S. C. White Leghorn eggs 75 cts. per 15 and $4.00 per 100. Mrs. C. C. Richardson, Indianola Ia.

S. C. WHITE Orpington eggs, $1.50 per 15; $8.00 per 100. Also S. C. R. I. Reps, farm range, $1.00 per 15; $5.00 per 100. G. N. Stoner. Ladora, Iowa.

BUFF Orpington eggs, $2 per sitting. stock direct from Martz's prize-winning and egg-laying strain. Satisfaction guaranteed. C. Klaus, Manchester, Ia.

WHITE ORPINGTONS Kellerstrass strain, eggs from choice pens. Pen No. 1 has a score of 93. Address J. H. Hartshorn, Traer, Iowa.

ORPINGTONS.

EGGS from pure Cook strain Buff Orpingtons. Bred for winter layers, $1 per sitting, $5 per 100. Address E. D. Hamann, Persia, Iowa.

EGGS for hatching, from farm range, Single Comb Buff Orpingtons, 75c per 15; $2.00 per 45; $4.00 per 100. Fred Massure, Linden, Iowa.

S. C. Crystal White Orp. eggs from large, healthy birds, fine laying strain; sitting, $1.50. Prices on larger orders. Mrs. Howard Niswander, Kinross, Ia.

Kellerstrass S.C.W. Orps. Eggs $1.00 per 15. Two cockerels for $1.25 and two for $1.00 each. Address W. I. PRICE, Ira, Iowa.

KELLERSTRASS WHITES—Eggs $1.50 per 15 or $8.00 per 100. S. C. Buffs $5.00 per 100. **ORPINGTON FARM, Big Rock, Illinois.**

EGGS Rose Comb White Orpington. These are bred to lay the year around. Address **P. F. SMITH, Montezuma, Iowa.**

WHITE Orpington eggs, Kellerstrass strain. Pen 1 scoring 93 and up, $5 per 15; pen 2 scoring 90 and up, $2 per 15. J. P. Schowalter, Wayland, Ia.

ORPINGTONS S. C. Buff Orps. Splendid size and color, excellent layers, farm range. Eggs $5 per 100. Anna Pratt, Beaver Crossing, Neb

EGGS from S. C. Buff Orpingtons. 30, $2.50: 100, $6. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

Single Comb Buff Orpingtons and Black Langshan eggs; good stock; $1.50 for 15 eggs. Book orders now. Address F.C. Roberts, Jolley, Ia.

DUCKS.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons, R. 2, Prophetstown, Ill.**

Eggs from Mammoth White Pekin Ducks

HEADED by drakes scoring 97. 97¼. Won blue ribbon at Oswego, Kansas, poultry show, 1912. $2 for 13; $4 for 30; $6 for 50; $10 for 100. Address **JOHN M. HALL, - Williams, Iowa.**

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from fawn and white, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners $2.00 per 12. Address E. A. KAUFFMAN. Lockridge, Iowa.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

EGG ORDERS NOW BOOKED from our champion strain of Indian Runners that won all firsts at Chicago. A few choice drakes. F. L. Reinhard & Son, Ottumwa, Ia.

WE are offering 100 extra choice breeding trios of pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address **Rahn & Son, Box 144, Clarinda, Iowa.**

INDIAN RUNNER duck eggs. From Fawn and White full blooded ducks. Were not forced for winter laying and in good condition. $1 for 13; $6 for 100. Miss Effie McMullen, Grand River, Ia.

WANTED TO BUY. Indian Runner and Pekin ducks, and Toulouse geese eggs in large lots. Also Hamburg, Cornish Indian Game and Houden eggs. Address Matthew Mertz, Des Moines, Ia.

INDIAN RUNNER DUCK Eggs, $1.50 per 13. Pure white eggs. Address Jennie Rider, R. No. 2, Farmington, Iowa.

I. R. ducks, both fawn and white, and the English penciled. Special prices on eggs for Feb. and March orders. Nishna Collie Kennels, Oakland, Ia.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95¼. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

INDIAN RUNNER DUCKS Fawn and White. The laying strain. Eggs, $1 for 15; $5 for 100. **EARL WALGREN, Lockridge, Iowa.**

DUCKS Indian Runner ducks, Fawn. Great layers. 13 eggs for $1.00. Anna Pratt, Beaver Crossing, Neb.

EGGS—Pekin ducks, headed by drake scoring 96½ that won first at Dubuque. 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar. Iowa.

INDIAN RUNNER duck eggs, pure-bred, fawn and white, laying strain, high-scoring eggs $1.50 per 18. Address K. Hemmen, Blairsburg, Iowa.

FAWN and White I. R. duck eggs, flock scoring up to 96; state fair winners, W. egg strain, $1.50 per 13. Mrs. Howard Niswander. Kinross, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 100, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

ROUEN DUCK EGGS $1.50 for 12; $2.50 for 24 from large, pure-bred stock. Address John P. McFadden, Atalissa, Iowa.

INDIAN Runner ducks, scorad drakes with fawn heads and backs; eggs $1.00 for 15, $3;00 for 50, $5.00 for 100. Address MRS. C. R. SWITZER, Lewis, Ia.

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia

BRAHMAS.

LIGHT Brahma cockerels, pure-bred fancy stock. Also eggs for hatching, 1st pen, 15, $2; 2d pen, $1.50 or $3 per 100. Write Mrs. Geo. Craig, Afton, Ia.

LIGRT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 8c; 26 $1.50; 100, $4 50. G. H. Schaller, Earlville, Iowa

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100. Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

lots. They are mated to seven large male birds, scoring from 90¾ to 93½. They have good exhibition qualities and striping in hackle and saddle.

—Read the advertisement of Peter Reinbold, Clarksville, Iowa, offering Rose Comb White Leghorn eggs for sale, that appears elsewhere in this department.

—Carey R. Jones, Iowa Falls, Iowa, is prepared to furnish readers of The Homestead with Rose Comb Brown Leghorn eggs as per advertisement elsewhere in this department.

—The White Orpington egg advertisement of J. P. Schowalter, Wayland, Iowa, in which he quotes prices on eggs from two different pens, appears elsewhere in this department.

—Barred Plymouth Rock and fawn and white Indian Runner duck eggs can be purchased from Charles J. Clarke, Greene, Iowa, at prices named in his advertisement elsewhere in this department.

—Ethel H. Shaw, Newton, Iowa, can supply Homestead readers with Mammoth Toulouse geese eggs as per advertisement found elsewhere in this department. She also has a few ganders for sale.

—R. R. Stewart, Charles City, Iowa, has been a breeder of Rose Comb Brown Leghorns exclusively for fifteen years. He is quoting prices on eggs in his advertisement appearing elsewhere in this issue.

—"My White Wyandottes are large, pure white birds; fine shape, good combs and eyes, heavy, yellow legged, healthy and vigorous," writes Mrs. Geo. Roe, Bellevue, Iowa, in sending copy for her advertisement that appears elsewhere in this department. "The best of care will be taken in preparing eggs for shipment."

—E. S. Dyas, Bellevue, Iowa, whose advertisement appears elsewhere in this department, writes that he is prepared to sell White Wyandotte eggs by the sitting or 100, but that he will only have a limited number of Pekin duck eggs to spare and these in one or two-sitting lots. He also says that he will send out nothing but fresh eggs.

—Mrs. S. A. Spalti, Pleasantville, Ia., in furnishing copy for her advertisement offering Single Comb Rhode Island Red eggs for sale, writes: "The eggs offered are from strong, vigorous, pure-blood Reds, having had farm range. I purchased pure breeding stock as the foundation of my flock and it has been my aim from year to year to make it better."

—Mrs. Jake Waltemeyer, Melbourne, Iowa, is advertising Rhode Island Red eggs in this issue of The Homestead at $1 per fifteen or $5 per 100, which is very reasonable, concerning the high quality of her flock. She has paid especial attention to early maturity and the laying qualities of her birds. Send her an order and you will be well pleased with the results you obtain.

—C. H. & J. E. Bauman, Pella, Iowa, whose advertisement appears in this department, writes: "Our flock of Brown Leghorns are in fine shape and the eggs we are offering for sale this season are all from the best stock. We are confident that our customers will be pleased with the stock from these eggs. Any orders, no matter how large or small, will receive our careful attention."

—Mrs. Robt. Hunt, Earlville, Iowa, in sending copy for advertisement found elsewhere in this department, writes: "We have a fine flock of Barred Plymouth Rock chickens, well barred and large boned. Have been a breeder of this variety for ten years exclusively. Also have some large-boned Mammoth Bronze turkeys and Toulouse geese. Will try to please all customers. Send in orders early."

—"My Barred Plymouth Rocks," writes Mrs. H. J. Hess, Waterloo, Ia., whose advertisement appears elsewhere in this department, "are large of size and finely marked. I have many pens containing grand birds closely related to noted winners at Chicago and other large shows. The White Wyandottes are choice birds of a noted prize-winning strain, of good size and fine shape. Eggs will be carefully packed and orders filled as promptly as possible."

—Albert A. Foster, Russell, Iowa, in furnishing copy for advertisement in this department, in which he is offering Barred Plymouth Rock eggs for sale, writes: "The Homestead has been a successful medium in selling our birds. I have eggs to offer from six grand matings. My Buff Plymouth Rock hens are better than ever before. They are mated to birds that are prize winners and from a heavy laying strain. They are large, heavy boned, with deep, narrow barring and excelled by none. My circular is now ready and I am now booking orders for eggs."

Buff Rocks and Mammoth Bronze Turkeys.

—M. Henningsen, Dike, Iowa, whose advertisements of Buff Plymouth Rocks and Mammoth Bronze turkeys appear under their proper headings in this department, writes: "In the past we have enjoyed a most liberal patronage from Homestead readers. In Buff Rocks we have something especially good to offer. The fact that they are trapnested will appeal to anyone interested in better paying poultry. Our Mammoth Bronze turkeys have the bone, quality and true markings. Our flocks are headed by two exceptional, extra choice toms, one weighing forty-one pounds, the other a thirty-five-pound young tom. See cut in our new mating list. We have issued a new mating list for 1913, beautifully illustrated with true photographic cuts of our stock, and will be pleased to send the mating list to anyone interested."

LEGHORNS.

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address **DAVENPORT & MACK, Belmond, Iowa.**

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00, 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed E. A. Kauffman, Lockridge, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address **R. S. Ketcham, Box H, Boonville, Indiana.**

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93½. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs. Will Michael, Selma, Iowa.

S. C. W. LEGHORN eggs by the 100. It is not the price that is high but the quality. Write me your wants. J. W. Robinson, Route No. 1, Truro, Iowa

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 **A. B. JORDAN, - Moravia, Iowa.**

S. C. W. Leghorns, eggs from a strain with blood lines well established; $4.00 per 100, $1.00 per 15. Also fancy imported pen (Campbell strain of Canada) $2.50 per 15. Address Geo. Gaul, Tipton, Iowa.

Must Sell My choice flock of S. C. W. Leghorn hens and pullets. Young's strain. As I have to move March 1 will make special prices for quick sale. C. H. Drake, Lisbon. Iowa.

WHITE Leghorns, (single comb), winners at Des Moines, Sioux City, Cedar Rapids, and all over the state. Eggs, $1.00, $2.00 and $3.00 per 15; $4.00 per 100. E. P. Hartman, Lake View, Iowa.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

R. C. Brown Leghorn sitting eggs from my scored pen $1.25 for 15, and I. R. D. eggs, pure fawn and white, $1.25 a sitting. $5 per 100. Farm range $4.00 per 100. MRS. G. W. BROCKWAY, Clarksville, Ia.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale: $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

S. C. B. LEGHORN EGGS from silver cup prize winners, $1.50 per 15. Mrs. Monroe Marts, R. 2, Ottumwa, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

SINGLE COMB BROWN LEGHORN baby chicks $12.00 per 100. Let us book your order now for future delivery. E. A. Kauffman, Lockridge. Iowa.

S. C. and Rose C. B. Leghorns Trapnested 12 yrs. Eggs $1.00 per 15; $5.00 per 100. Fairview Farm, West McHenry, Ill.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

S. C. W. Leghorns. Young's. Eggs, exhibition matings, $2.50, $1.50, $1 per 15; $5 per 100; chicks $12.50 per 100; circular, Mrs. Wilson McIntyre, Red Oak, Ia.

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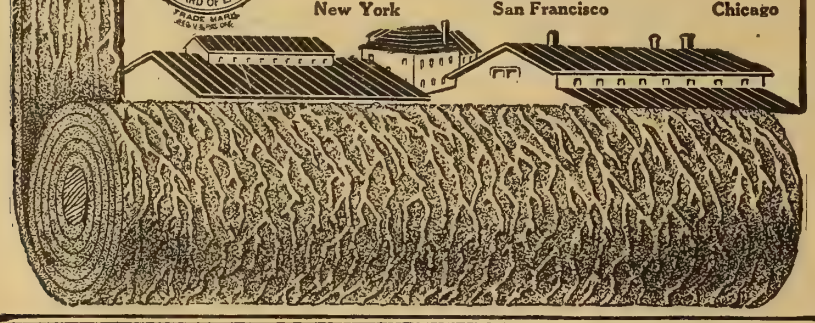

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

The vegetable and flower garden may be compared to the class that had practiced exercises for strengthening the muscles of the back and developing those of the chest. "Now," said the teacher, "let us stretch and wave our arms and see if we cannot make really beautiful curves."

It is good to be practical and plant a vegetable garden. It is just as good, sometimes better perhaps, to devote time to a flower garden. "There is no money in a flower garden." Well, there are things that are better even than money. And in raising flowers one may find some of them—beauty and rest and a communion with nature which is the finest tonic in the world.

"But my front yard is not fenced." Well, never mind that. Perhaps if you set your heart on it and backed it up by thinking and doing the front yard might become fenced. If not, go ahead anyhow. There is a corner somewhere which could be enclosed. Make up your mind that it is to be enclosed this spring. If it cannot be managed any other way some of the egg and butter money might be invested for that purpose. It is better that the family do without table luxuries for a little while than that they lack the refining influence of beauty and the housemother do without the restful refreshing of flowers for all summer.

"Suppose I manage a piece of fenced ground, what shall I raise?" That is a big question, and yet not such a big one, after all, because there is such a variety of things that respond generously to the efforts of a beginner. Anyone can raise petunias, asters, nasturtiums, phlox, drumondi, marigolds, zinnias, balsams and coxcomb. And they all insure bloom that will delight the eye. Or if one prefer hardy perennials there are hollyhocks and Shasta daisies, Sweet William and phlox and pinks and half a dozen others which some flower-loving neighbor is almost certain to offer you roots of if you say you hope to start a flower garden. And while you are planning for bloom do not forget that foliage is beautiful. Plan to have a few cannas or castor beans and some vines clambering over porch or fences. A climbing rose or a clematis paniculata pays for itself in one season and sends out new runners year after year. For quicker returns there are the dainty cypress and the sturdy Madeira vine, not to mention the scarlet runner and the morning-glory.

Fortunately there are many who are not hampered by lack of fences or the wherewithal to purchase a few bulbs and roots and seeds. For them the seedsman's catalog is a treasure trove. But a word of advice may be in order. Do not try many new varieties in one season. Let the old standbys be well represented and a few new things tried if you want to be sure of satisfaction.

Some flowers love strong sunshine. Of these is the double yellow marigold and the rudebeckia—and a gorgeous bed they make with the golden glow in the center and the marigold for border. For such a bed white petunias make a dainty fringe that will be a thing of beauty as long as the yellows blaze, if care is taken to cut back the vines at midsummer.

Few plants give greater returns for the investment than do petunias. Next to them might be mentioned asters some of which are as beautiful as chrysanthemums. A bed of white and purple or white and pink asters bordered with alyssum or ageratum or candytuft, according to the color desired, is a thing of beauty and almost no care.

Everyone who grows flowers comes to have favorities, so that to omit mention of any is to have some one exclaim, "Wonder why no mention is made of sweet peas, or of poppies, or of half a dozen other things." The best way is to begin with a few things, learn their habits and their desirability and from season to season add to the number, rearranging every season with view to color harmony.

A well-planned fence corner, a single bed, or a wide border arranged with view to height and color and succession of bloom often gives more pleasure than many times the space less well managed.

It is not well to be in too great a hurry digging and seed sowing. That veteran flower lover and flower grower, Eben E. Rexford, says that in the enthusiasm of the spring season we are quite likely to put the seed into the ground before the earth is in proper condition to receive it. We should wait until warm weather is assured and the sun has had time to sweeten the soil. If we sow while the ground is cold and wet there is risk that the seed will rot instead of germinate, and so our haste makes waste, and leads to disappointment besides.

One other word of warning is in order. It is a mistake to cover fine seed deeply. Except in the case of the sweet pea anything like a furrow is inadvisable; nasturtium and seeds of that size may be planted in a ridge, but small seeds should not be covered at all. The ground should be worked very fine, the seed scarred

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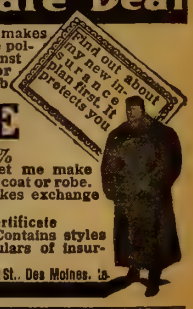

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LITTLE HELPS BY THE WAY.

Out of the shadow of night
The world rolls into light.
Oh, fear not in a world like this
And thou shalt know e'er long,
Know how sublime a thing it is
To suffer and be strong.
—Wanta Filomena.

Erase the cause and the consequences will be effaced!

Mistakes were meant to be milestones, not head stones!

MAN IS A FAILURE WHEN—

He has no confidence in himself or in his fellow men.

He values success more than character and self-respect.

He does not try to make his work a little better each day.

He tries to rule others by bullying instead of by example.

He loves his own plans and interests more than humanity.

His friends like him for what he has more than for what he is.

He is so busy that he has no time for smiles and cheering words.

He is so burdened by his business that he finds no time for rest and recreation.

He lets a day go by without making someone happier and more comfortable.

He values wealth above health, self-respect and the good opinion of others.

He becomes so absorbed in his work that he cannot see that life is greater than work.

He does not care what happens to his neighbor or to his friends so long as he is prosperous.

PLANTING SWEET PEAS.

The trench is made a foot deep and the same in width. In the bottom is placed well-rotted manure to the depth of three inches, stamped down firm. This manure is covered with three inches of soil. On this the seeds are sown, covered with two inches of soil and stamped down hard. The trench must now be filled to the top and covered six inches above the top with leaves, straw or hay, not with manure.

In March come the March winds—
They blow and blow.
They sweep up the brown leaves,
That green ones may grow.
—Houghton.

FROM THE HOME COOK BOOK.

Beef Timbales.—Trim the fat and gristle from cold meat and put through a meat chopper. To one pint of meat add one teaspoonful of salt, add a dash of pepper. Put into a saucepan half a cupful of stock, two tablespoonfuls of bread crumbs and one tablespoonful of butter; beat together over a slow fire and add the meat. When hot take from fire and stir in carefully two eggs, well beaten. Put the mixture into buttered custard or timbale cups, place them in a pan half filled with hot water and bake fifteen minutes in a moderate oven.

Raw Fried Potatoes.—Pare and slice into very thin, even slices. If potatoes are large they can be halved or even quartered before slicing. Lay in cold water at least an hour before frying. Heat about one tablespoonful of good, sweet lard or unsalted beef drippings in a frying pan. Let heat, then drain potatoes well, put in pan and cover and let steam about ten minutes. During this time shake pan a few times so they will not stick, then uncover and with a spatula turn potatoes. To be correctly made raw fried potatoes should be nicely browned and tender inside they must not be mashed or scorched; so it is best to start with unsalted drippings, now begin to fry very slowly without cover; if they do not get tender in the same proportion as they brown cover again to let them steam. Toward the last shake salt and pepper over and add a generous tablespoonful of butter. Shake and turn so all are evenly seasoned and serve very hot. To be at their best these potatoes should be served as soon as done. The amount of shortening given is sufficient for six to eight medium potatoes. For a change potatoes can be cut into small strips or cubes and fried raw.

Currant Bread.—Ingredients for the sponge: Three cupfuls of sifted flour, two cupfuls of warm milk and water (equal parts), one teaspoonful of sugar, one teaspoonful of salt, one cake of compressed yeast. Ingredients for second mixing: One-fourth cupful of lard and butter (equal parts), one-half cupful of sugar, one egg, one cupful of cleaned currants, three cupfuls of sifted flour. Method: Cream the shortening, sugar and egg until extremely light (creaming is to mix those ingredients with a perforated spoon until they are well blended and fluffy), then with the spoon beat the mixture into the light sponge, add the currants next, then beat in the flour gradually as in milk bread, knead, mold and bake same as milk bread.

SUGGESTIONS FOR THE HOUSEWIFE.

A teaspoonful of turpentine boiled with your white clothes will greatly aid the whitening process.

Vinegar in which homemade cucumber pickles have been preserved should not be thrown away, but used in salad dressing. The flavor is delicious and cannot be gained in any other way.

To have boiled potatoes fluffy, pour the water off when they are done, then let them stand in the dish they were cooked in on the back of the stove for a few minutes, giving them an occasional shake.

When you are boiling rice take care not to throw away the water. Strain it into a bowl and you will find it makes a most excellent starch. This starch may be used either hot or cold. Two or three drops of turpentine are an improvement.

When grease is spilled on a board floor sop cold water on it to harden it and keep it from sinking in. Then scrape it from the floor and clean the spot with soda and hot water.

Try boiling cracked dishes in enough sweet milk to cover, and let it continue boiling for forty-five minutes. This glues the crack tightly together and makes it invisible, and the dish will stand almost as much usage as when new.

AMONG OURSELVES.

Sometimes our friend Mrs. Lowater brings us an offering in verse, sometimes her message is in prose, always she is welcome. Today her book talk will add to the pleasure and profit of our meeting:

I read a book talk in the Home Department not long since in which "The Shuttle" was classed with "The House of Mirth" and "One Woman" and, like them, called a harmful book. Now I cannot understand this. The only reason I can possibly imagine is because Bettina met unpleasant experiences, and Lily Burt did also, therefore they must be the same kind of a book, and both injurious. Now this is the difference between them: The disagreeable things that came to Lily occurred only because she was living a degrading and unwomanly life—a pure-minded, right-living young woman could not possibly have known them. Her life gave occasion for both men and women to treat her in an unpleasant manner, and she met these troubles in the cowardly and foolish way to be expected of her. Now, Bettina met unpleasant things, but she met them while discharging a sacred duty—saving her sister from moral and social destruction at the hands of the brute she had married. Bettina was the only person who could help her—the rank and position of the man made it impossible for another man, even her father, to help her. Bettina acted with a courage, prudence and intelligence unknown before, I think, in any character, even in the greatest of fiction. Is there any mind, however unformed, that could be injured by reading the story of her success? I do not believe that there is any mature woman who cannot look back to certain places in her youth and wish that she had known some fine character in a book who would have shown her what to do in her own emergency. It is not pictures of hard, unpleasant things in real life which should condemn a book—it should be judged by the way its characters meet them. If they overcome them, and become stronger, nobler men or women for the struggle, that book is doing a good work and may be a heaven-sent help to some hesitating soul. I know a small city in Massachusetts where the keeper of the public library refused to allow "The Danger Mark," by Robt. Chambers, to circulate. She labeled it "a bad book," It is a story of a fight of a young man and a young woman against their hereditary enemies. In the young man's case it was drunkenness, through many generations. In the young woman's, a character and habit of mind descended from a mother and other ancestors who had eloped from their husbands or had other moral lapses. Their genuine love for each other impelled them to make the fight, and though they nearly gave it up several times, they conquered their enemies and reached a height where they could defy them. Now I do not doubt that this book would have borne a saving message to some struggling creature—perhaps many. Yet the narrow-souled librarian could only see that it talked about unpleasant things—things that were not "nice"—so she condemned it. If life itself were always "nice," there would be no need to consider things that are not nice—but, unfortunately, it is not.

Mrs. Lowater's views are those of many thoughtful persons who have come to understand that sometimes a novelist is a preacher whose book is a pulpit and whose story is a sermon. If a writer makes sin or lax morality attractive, it is a case of becoming defiled through touch pitch, but if he makes vice abhorrent, if his characters make appeal for the higher, if the story of their struggle may be an incentive to others, a different standard of measurement is in order. At the same time, until judgment is matured and discrimination developed it is just as well that young people's reading be along other lines. The problem novel is meat for men, not milk for babes.

Echoes of our strawberry day are still in the air and it seems to me good we should "lend our ears" while yet we may. It is the music of Busy Bee's song that I would have you hearken to first:

What I have done in the way of raising strawberries any woman with fairly good health and a little bit of love for hard work and gardening can do as well as I. I was surprised at the results I got. To put out a strawberry bed, one must commence the year before, unless one already has at hand just what is wanted, and what is wanted is land where corn has been grown and kept thoroughly free of weeds. I had to commence a year in advance on an old weed-grown scrub orchard. We cleared the dead weeds by hand. Husband then gave it a good coat of well-rotted barnyard manure,

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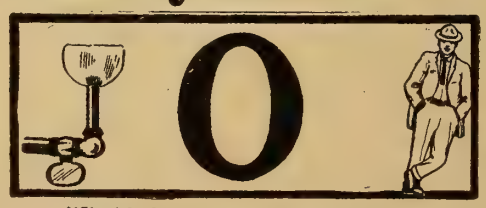

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We are going to give away a $250, eight-horse power, Pope Motorcycle and I want to tell you how to get it. The above picture-puzzle represents something that every motorcycle owner uses. What is it? Write me today what the puzzle means. Be sure to send me your name and address so I can tell you all about the contest in which you can win the eight-horsepower motorcycle and many other prizes.

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plowed it under and drilled it thick to corn, and such a crop of fodder! When it was cut we pulled up every cornstalk stump. The next spring husband plowed, pulverized and harrowed it fine as an ash heap. We marked rows twenty-six inches apart and set the plants twenty-six inches apart in the row, using plenty of water while setting out the plants We used the Senator Dunlap, Jesse Clyde, Bederwood and Lovett. They all were good but the Lovett. They are too soft and tasteless, to our notion. As soon as the plants are set out, commence hoeing. To raise small fruit of any kind it must be kept free from weeds, and especially is this true of strawberries. We put out 800 plants the first year. We had lots of rain and the plants did well. By fall the plants were well matted. The first season we kept all the blossoms pinched off and kept them well hoed; the next three years we realized our reward. By the second spring the plants were so matted that we could not use a hoe to much advantage only along the edges, so I pulled up weeds where I could and used a four-tined steel table fork to weed the strawberry bed from early spring until late—yes, until the ground froze. After the ground is frozen mulch lightly. We made the mistake the first year of using wheat straw for mulch. It took us all summer to get the wheat killed out—twice the work to get rid of the weeds sown by the seed that was in the straw. We used slough and rush hay after that and think it best, but forest leaves are good. Use corn fodder sparingly to hold the leaves on. Do not remove the mulch too early and when you do catch a rainy or cloudy time so the sun will not blister the tender plants. We had all the berries the second year that a family of eight could eat. I canned 104 quarts, also sold $40 worth, and the neighbors had quite a few. On Saturdays we let the neighbors take turns picking. They had all they picked. We had to bake and do the Saturday cleaning, so it was nice for all parties to arrange it that way. The other three years we had more berries than the second.

Such results as Busy Bee secured justify quite a deal of work. Hearing about it should decide any who are still wavering, but in case more stimulus is needed let us lend ourselves to catching a few echoes from Kansas where Mrs. Newton has been telling of what she did with strawberries:

The second week in April I planted a small strawberry bed of 150 plants. The ground, which in the previous year had been used for potatoes, was prepared as for gardening. The plants I set in rows two feet apart and about the same distance in the row. It required several weedings by hand and some thorough hoeing before I was rewarded by the sight of a clean plot. Then came the well-remembered drouth through which I carried water many times to keep life in those plants. I lost only a few. During this time, as runners were forming, they were placed in the direction of the row, leaving room between rows for hoeing. Blossoms were also picked off to preserve the strength of the plants. The latter part of the summer required less work, only placing runners and hoeing to keep a dust mulch. In November I gave the bed a light covering of straw and toward spring I thickened the mulch to protect plants against alternate thawing and freezing. This spring, when plants began to show signs of life, I removed with a fork the mulch from over the plants, leaving a light covering between rows to protect the fruit from the ground. Don't forget that the fruit buds were formed in the autumn and in case of threatened frosts replace some of the mulch to protect the fruit. Old strawberry growers in this locality consider Parker Earle, Clyde and Senator Dunlap as leading varieties for the home garden. It is advisable to plant both, an early and a late variety to give a longer succession of bearing. Nearly all the work of caring for this bed I have done alone and, being an amateur, I have learned many things from the experience it offered. I also feel well repaid for the work by the delicious, fragrant berries we had for use. I am renewing the bed for next season by cutting out the oldest plants with a sharp spade and loosening the ground so that new runners can take root.

Not until every farm home represented in our circle has vegetables and fruits and flowers will I be satisfied that the influence of the Home Department is the power it should be. Others feel the same I am sure. I trust that they will do what they can to hasten the happy day. They are cordially invited to come and tell about the things they are doing along this line—the joy in the labor and the richness of the returns.

A word from Mrs. E. M. now. It is on a topic which is uppermost in the minds of housewives at this season:

The snow is barely gone from the yards and there is mud everywhere, but after the long winter, with big fires, ashes and dust in abundance, one's fingers fairly tingle to get the carpets up. So I am cleaning house and will spread down strips of carpet to protect the cleaned rooms. Under what varied conditions housewives face house cleaning. That word had no terror for me when a girl at home, for mother looked after the meals, father helped with the heavy lifting, cleaned the carpets and rugs, while a hired helper and I did the cleaning and straightening. But it is not of the woman with modern house, ample porches, plenty of help, vacuum cleaners, etc., that I wish to write. It is of her with limited strength who faces, single handed, the task of cleaning an old-fashioned house with its stoves and ingrain and rag carpets. She who papers and refinishes her own walls, woodwork and floors. She, to my mind, is a real heroine. Experience teaches me that following a system is a great aid. I consider the preliminary work very important. If one has previously cleaned all drapery, put in order every drawer, changed the rollers into opposite end of worn window shades (the public will be deceived into thinking they are new shades), then straightening the cleaned rooms is easily accomplished. The question of meals during housecleaning is a big one for the woman with no help. If, the day before the tearing up begins, she will do up baking, include a pot of baked beans, and during the time will make use of boiled dinners, such as the "New England" dinner, she will need to give food little thought for a few days.

Next week we shall perhaps hear how the labors of housecleaning are minimized by the use of modern conveniences, but in any case, as the larger number of women have to get along as their grandmothers did, it is a good thing to hear from women who putting brains into their work rob housecleaning of a good many of its old-time terrors. Another such, "A Business Woman," will talk about her way of doing things. It is a business-like way and one worth copying:

With a twelve-room house to clean and no help to be obtained at any price, I have evolved nine rules that, strictly adhered to, reduced my housecleaning to a science. First. Begin to clean by the middle of March, so as to have it out of way of chickens, garden and cleaning yards. Second. Bake up a supply of bread, doughnuts, cookies and pies the day before you begin to clean. Third. Don't put on an old, tattered dress; have a big apron with sleeves and sweeping cap, and when apron looks soiled put on a clean one and look presentable. Fourth. Begin on cellar first. It is apt to be the most unsanitary part of the house. Sort over apples and potatoes and give little potatoes to pigs and chickens. Do not leave them in the bin sprouting half the summer. Sweep down ceiling, walls and floor, wash windows and whitewash walls. Fifth. Clean pantry next. Wash one shelf at a time and dust or wash each article and put back in place before you commence on the next shelf and save cluttering up. Wash and scald flour bins and leave on back porch for half a day. Sixth. Now begin upstairs, guest chambers first. I light my little oil heater and carry up to the room and work in comfort. Take a large basket containing dustpan, cloths, whisk broom, bottle of turpentine, flat sash brush, tack puller and broom upstairs with you. This is your tool kit. Throw old calendars, cards, letters, boxes, old patterns and hats in basket for bonfire. Wash the closet shelves and all floors with hot water and a tablespoonful of turpentine as a moth preventive. Sweep down ceilings and walls with a pillow case pulled over the broom. The flat paint brush is fine to dust out crevices in furniture and woodwork and to clean corners in windows. Use dustless dust cloths on furniture and woodwork if varnished. If painted wipe off with hot water, one teaspoonful of kerosene oil to each quart of water. Seventh. When I reach the living room we store base burner, clean room and put up a wood stove to remain up all summer. A fire on cold, damp days saves doctor bills.

Eighth. When one room is finished never commence on another room the same day, but rest that evening so you won't get so tired and cross. Ninth. Stop cleaning house Friday night and spend Saturday straightening up living rooms and doing a little extra baking and rest in the afternoon so you will not be too tired to go to church next day.

A few weeks later we shall have something on this subject again.

As the decision of the awarding committee may be expected any time now, the program proposed for next week is the prize essays on labor-saving devices for the home. Accompanying this Among Ourselves program the first installment of a remarkable story entitled "Solidarity" will be given With the Editor. The story has a decided bearing upon the subject of the prize essays. The combination should have an aftermath. Let me urge that the wives and the husbands together take advantage of the Home Department offerings next week if they have never done so before.

Three Wisconsin men, Pres. Charles R. Van Hise, of the University of Wisconsin, George McKerrow, superintendent of Wisconsin Farmers' Institutes, and Edward Webster, noted dairy writer, have been assigned places upon the program of the first national conference on marketing and farm credits, which is to be held in Chicago April 8th to 10th. Professor Van Hise will address one of the first sessions upon "Waste in Distribution." Superintendent McKerrow will preside at one of the educational sessions and Professor Webster will lead the discussion on the "Production and Marketing of Dairy Products."

THE YOUNG FOLKS

Letters and Articles for this Department Should be Addressed to Aunt Mary, Hawley, Minnesota.

MEMORY GEM.

It is a good thing to be rich and a good thing to be strong, but it is a better thing to be beloved of many friends.—Euripides.

SPRING.

Winter has gone and spring has come,
Children are playing out in the sun;
Birds of all kinds are out on the wing,
All celebrating the coming of spring.

Over the hills and the meadows so green
A beautiful carpet of grass is seen;
The flowers are springing here and there,
And a fragrance of sweetness fills the air.

Out in the orchard the birds and the bees
Are flying among the flowers and trees;
Neither has time to idle or play,
Each must work hard till the close of the day.

—Jolly Jack, age 13.

ROLL OF HONOR.

Amethyst, Arrah Wanna, Aunt Mary's Niece, Bedouin, Blue-eyed Darling, Brown-eyed Beauty, Brutus, Carlos, Colorado Cousin, Cricket, Daddy's Girl, Diamond Queen, Dimple, Eyes of Blue, Fairbury, Gabriella, Gem, Golden Girl, Healthy, Io, Jolly Girl, Jolly Jack, Kansan, Kitty, Little Beauty, Lois Irwin, Lucerne, Merry Mack, Morning Glory, Neb. Dascal, Nebraska Nan, Princess Yetive, Riches, Sharlot, Sweet Helen, Sweet Pickle, Thora, Truda, Vernie of Worleytown, Vivian, Washingtonia, Wild Rose, Willamette.

The foregoing names are given places on the Roll of Honor for good, original literary work written on one side of the paper and properly signed, or for handwork made by the young folks.

Pansy badges are won (for three times on the Roll of Honor) by Carnation, Fairy Queen, Nebraska Farmer, Sweet Pickle and Wanola. Silver badges are won (for three more times after winning pansy badge) by Marjorie and Peggy.

No credit is given the following: De Pera, Forget-me-not, selections; Alta Loyd, Country Lassie, no general interest; Kansas Clodhopper, Kansas Dishwasher, no name; Easter Lily, riddles.

CHILDREN AND THEIR PETS.

I am a little Shetland pony. When I was born I lived in town and belonged to a horse doctor. I liked that home very much. After awhile I was sold, and had to leave my mother. I didn't like that. I soon was taken to a farm. A little girl came and petted me. I was glad to see her and she was glad to see me, and we were soon friends. I like my home very much now.—Neb. Rascal, age 8.

One day last summer I was going to the field and my dog went with me. After I got there she jumped over the fence and found a snake six feet long. I ran to the house and papa came and killed the snake. My dog was so proud that she ran around and barked. —Dap.

Once my papa gave me a little lamb, and I raised it for a pet. It would play with me, run races and follow me everywhere I went. When school began in the autumn I had to put my lamb in a pen until I was gone to school and then mama would go and let it out to play.—Little Nell, age 10.

A Winter Walk.

These sunny wintery days are surely ideal and acting upon Vashi's suggestion I shall tell of my cross-country walk, though not taken alone, but with the companionship of a friend, who is all that can be desired for a real companion.

It was a cloudy day and a breath of snow hung in the air, but we had been in the house for a number of days and as the snow was very deep we decided to try our snowshoes. There were several pairs in the attic covered with dust, but finally matching up two pairs in fairly good condition we put on our heavy mackinaws and skating caps and armed with two poles which had before this been broomsticks, set forth across the fields.

Before the first half mile was reached we were confronted by a net wire fence and no way of getting over it. Much valuable time, I am afraid, was spent in that rather than in action, but finally following the fence a short distance we came to a woodland lot and luckily a tall stump grew close to the fence, so we mounted that and then to the top and over.

Thus on through fields and woody spots where great flocks of bluejays held querulous meetings, where red squirrels peeped at us from leafless branches and tiny chickadees called. We had perhaps gone about two miles when we came to someone's back yard and by many methods finally found a way through the various fences and around the sheds to the house. The people living there had just recently moved in, but they greeted us kindly and as soon as we had crossed the threshold we knew we were in the midst of a happy home. Three little children were flocked around a white-haired old lady who was relating to them the old, old story of "Little Red Riding Hood."

We found later that the dear old lady was an invalid and these little ones were the joy of her heart. We had a lovely visit with them all and feasted on apples and dandy big doughnuts. Finally we started home. The air was full of soft, large, flakes, softly stealing down from the gray sky. When we had gone a short way my friend put out her hand and said, "Oh, beautiful, beautiful powdery snow, covering all unlovely things here below," and then turned to me and said, "Just so do kind deeds and words fall and, girl, I believe like the snow come from heaven to help us on and on and lead us to higher things." All through the walk home these words sang in my heart, for I knew they were true and it made me feel happier and better than before.

Get out in God's open and see the great wonders of nature and by training your mind to comprehensive feeling it is bound to make you happier for so doing.—Bedouin.

Molly's Reverie.

"Molly! Molly! what did you do that for?" cried her mother as Molly emptied the dishwater on a little kitten who was wanting to be fed.

"That naughty cat has been under my feet all day. I'll teach him to get in my way all the time," Molly angrily replied as she went into the kitchen and slammed the door.

Her mother picked up the kitten which was mewing piteously and wrapped it in an old coat and took it into the house by the fire.

When she looked out of the window she saw her daughter walking slowly across the field with a book in her hand. Molly's book was not as interesting as it had been before when she had helped her mother with willing hands. From every page her mother's sorrowful, dark eyes seemed to be looking reproachfully at her.

She pulled her stocking cap farther over her curly head and buttoned her coat more closely about her and sat down by a tree in the bright sunshine.

She was wishing she had not spoken so disrespectfully to her kind mother when she heard some one coming. She sprang to her feet and looked behind her and there stood a beautiful fairy. What a cheerful innocent face she had and what long, golden wavy hair and delicate pink dress. She bowed her graceful head and said in a musical voice, "I am Spring." Molly was so surprised that she did not say a word. Little Spring said, "Come, let us take a walk this beautiful afternoon."

They started through the naked woods together when Mr. North Wind, seeing them, thought he would walk with them, but when he came near, Molly began to shiver. Fairy Spring seeing this, said, "Mr. North Wind, it is time for you to go to your home in the North and South Wind may take your throne. He went away blustering and whirling the leaves as he passed. South Wind came floating through the cloudless skies bringing the song birds in his chariot. As Spring and her companion passed under the bare branches of the trees, she sang

Little leaves, throw off your blankets of brown,
That are coarse on the outside and lined with down;
The north wind has gone.
And the south wind is here;
The birdies have come
This country to cheer.

The little leaves threw off their blankets and came into the sunshine with their fresh, green robes. They went farther into the woods and Spring sang in the same magic voice:

Little daisies, put on your dresses of white,
And come from your dark homes into the light.
Johnnie-jump-up,
You, too, must awake,
And see how much pleasure
Your coming will make.
All flowers that are little
And flowers that are tall,
Come into the sunshine,
Come one and all.

The flowers all came out, clad in gay colored dresses and nestled in the green grass which had also come out to hear what Spring was saying.

Molly and Spring had now reached a little brook, which was covered with a little layer of ice. Spring placed her dainty foot on the ice and it dissappeared at once. The frogs even came out of their muddy homes and began to croak. Molly looked at the fairy's work with wonder. "How could anyone be so cheerful who had so much to do?" was her first thought. Then suddenly it came to her how much better it would be if she, too, would do her work cheerfully and gladly.

When they returned to the edge of the forest Fairy Spring said, "You must go back to your home now, but before you go I will grant you one wish." Molly hesitated awhile, then she said in an earnest voice, "I wish that I might always be as contented and as ready to make people happy as these flowers and birds are."

"Your wish is granted," Fairy Spring said, as she kissed Molly's hand and dissappeared. But no! instead of the fairy's kiss, it was her father's warm kiss that awakened her. As he was coming home from his work he saw a little figure leaning against a tree. When he came nearer he saw it was his own little girl. He lifted her in his arms and as he kissed her she awoke.

On their way home she told him what a cross little girl she had been and how she had gone away to read, leaving mother all the work to do. Then she told him of her dream, and how she meant always to keep her wish. She never was such a cross little girl again because her wish had been granted, even though it was but a dream.—Morning Glory, age 15.

HOW TO KEEP MILK GOOD.

Place milk in refrigerator as soon as possible, next to the ice if convenient.

Keep cold until ready for use. If ice cannot be obtained, wrap bottle in wet cloth and stand in dish of water by open window out of sun. Evaporation of water will cool the milk.

Keep covered in bottle until wanted. Milk in open bowls and pitchers absorbs odors and collects flies and dust.

Pour from bottle only what is needed for immediate use.

Never pour milk that has become warm back into a bottle of cold milk.

Wash and return all bottles daily.

Do not leave milk, cream or butter standing around on the kitchen table.

Put nothing in bottles once empty. Sterilization will not kill all odors.

Have a separate quart of milk for the baby. What it does not use others may have.

In mixing the baby's food do not add a warm fluid to the milk until you are ready to give it to the baby.—[Milk precautions urged on housewives by the medical milk commission of the Jackson (Mo.) County Medical Society.

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This book is a gold mine of information to the farmer who is looking for bigger and better results. Ordinarily this book is sold for 35 cents per copy, but for a short time we will mail a free copy, postage prepaid, to the readers of this paper, or until a certain number have been distributed. If you will write at once you will be sure of getting a copy by return mail.

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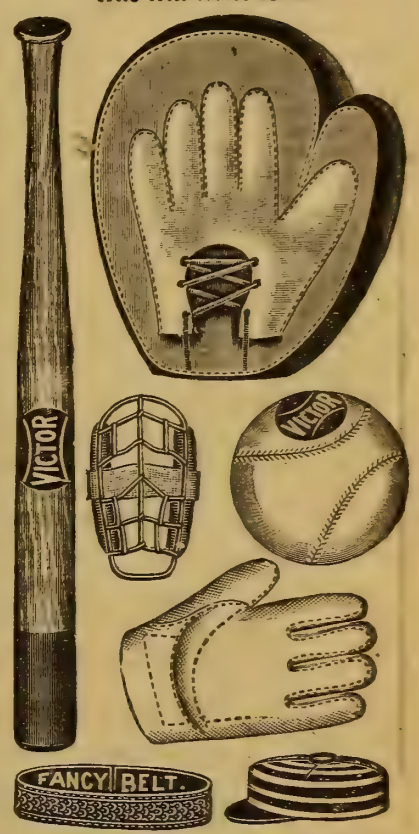
I Have a Glove, Mitt, Mask, Ball, Bat, Cap and Belt for Every Boy Who Will Write to Me.



There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

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Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

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I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

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PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair. Tennyson.

The International Sunday School Lesson

FIRST QUARTER. LESSON XIII. March 30, 1913

THE GOD OF OUR FATHERS: REVIEW.

Our fathers trusted in Thee:
They trusted, and Thou didst deliver them.—Psalm.

The concession is almost universal among competent authorities that the book of Genesis was not written in its present form by Moses, or indeed by any one person. The documentary hypothesis wins its way. It affirms that fragments of still more ancient literature were woven into the text as we have it, and that the process may not have been completed until as late a date as the time of Ezra and Nehemiah. A child will readily discover the "doublets" of Genesis; viz., the two accounts of creation and the flood, and the two names of deity. Confusion results unless some reason is given. The natural explanation, which would be accepted without objection in the case of other literature, is that of the interweaving of ancient documents. This is no late and crude theory. It seems to have been first suggested by the devout, scholarly French priest, Simon, 220 years ago. Since then it has been worked out with infinite pains to the minutest detail by scholars of every nationality and creed. Again it is affirmed that Genesis is not a transcript of actual history, but that the "origin of man," "paradise," and "the flood" reached Israel in traditional form from other nations, and became the folklore of Canaan. In thus preserving these ancient traditions, the editor of Genesis "created a genuine archaeology." But while Genesis may thus have appropriated certain elements of an elder literature, it presents several remarkable lines of cleavage from the Bibles of the Tigris and the Nile. It differentiates itself; it stands solitary. The first sharp line of cleavage is the absence of the slightest tinge of racial bigotry. While "national narrowness" is almost a characteristic of other sacred books, Genesis deals with the universal man—and is so true to this ideal that it deserves the noble title George Adam Smith gives it when he calls it the "Epic of Humanity." A second line of cleavage is its splendid optimism. The trend of other sacred literature is toward pessimism. They dote on the decline of the race, the drop from gold to iron, and hopes of return to the Golden Age are scant. But Genesis shows an uplift. In spite of occasional lapses, it pictures the plane of humanity in the ultimate analysis to be an ascending one, an evolution of morality and spirituality. The third line of cleavage is most remarkable of all. It finds expression in a single word—monotheism. Whatever elements Genesis may appropriate from tradition and literature, it sloughs off pantheism and polytheism. The unity and spirituality of God burst out of its pages like a sunrise, before which all darkness takes its flight. That is the divinity and inspiration of Genesis! Before it critical questions of authorship and relative antiquity seem comparatively insignificant. Whatever theories and hypotheses may maintain or fail, Genesis cannot lose its place as the "Epic of Humanity."

The Teacher's Lantern.

The Mosaic account of creation is a miracle in words. Not to this present, highly cultured age, but back 3,000 years to the beginnings of literature must we look for the most satisfactory statement of the origin of things. There, through the mists of human speculations, through rising and falling systems of philosophy, Genesis shines like a star, ever ascendant. It is not attached to any system of geology, astronomy, or biology; so, as numbers of these in succession have sunk, it has never been submerged. The book may clash with an hypothesis, it never does with a fact. The narrative is elastic enough to take in all the modern discoveries of physical science, but presents a rim of steel to the vagaries of sciolists. Not Adam and Eve alone, but every human being can be shown to be standing under a tree of test. Destiny is deciding now by one's attitude toward God. The chances of a happy outcome are better and worse than those of Adam. Worse because of an hereditary predisposition to a wrong choice. Better, because of the provisions of mercy. Where sin abounds, grace much more abounds. Even now God's voice is ringing, "Son! daughter! give me thine heart!" One does not need to run the whole gamut of sin to be lost. Merely declining to obey God is enough to exclude one from his presence. This paragraph rivets attention; it is so scenic. It fairly teaches itself. The natural method is followed. It describes the condition of the race before the flood; the superlative wickedness which made that wholesale destruction an act of mercy as well as justice; how the irretrievable misery of the human family, which had doomed itself, was cut short, and a chance given to begin anew under happier auspices. The genesis of anything always has a peculiar fascination. We never tire of origins. This ancient writing brings us to the fountain-head of the most important racial stream that has ever coursed its way through history; a stream to whose bosom the oracles of God were committed for twenty centuries; a stream that bore to earth the infant Messiah, as his type once floated on the Nile. A bird's-eye view of the winding of this stream, and the possible important function it may perform in the future of the Kingdom of God will prove an attractive introduction to the lesson. In the incident of Lot, Abraham's character shines resplendent. Two thousand years before Christ he showed the Christian spirit when he said to his nephew, "Let there be no strife between me and thee and between my herdsmen and thy herdsmen; for we be brethren." Nor are these mere words. Abraham backs them up. He waives his right. The land was his. It was all his. Yet in noble magnanimity he said to Lot: "Is not the whole land before thee? Separate thyself, I pray thee, from me. If thou wilt take the left hand, then I will go to the right; or if thou depart to the right hand, then I will go to the left." Lot's selfishness crops out. He took advantage of Abraham's generosity. He cast his eye on the well-watered plain of Jordan, and chose it. He journeyed east. It was not long before he exchanged pastoral life for urban. He attempted the impossible. A double service—God and riches—met the inveterate and historic outcome.

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SHIPPING butter, eggs, poultry, and many other farm products, by Parcel Post to city trade. Eliminate middleman's profit. YOU get the fancy prices. Easy to pack goods—always arrive in good condition. **City people anxious to buy.** R. F. D. man collects your produce. All you need is our improved Parcel Post Scale. Shows zones, exact weights and mailing cost. Sent charges paid when cash accompanies order. (Or remit 75 cents, balance C. O. D.)

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OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

3519 Lady's Dressing Sack.—This garment is one of the most useful, as it is entirely plain, except for a few gathers at the neck in the center of the front. Challis, cashmere or cotton crepe can be used to make this sack.

The pattern, No. 3519, is cut in sizes 32 to 44 inches bust measure. Medium size requires 3¾ yards of 27-inch material. Price of pattern, ten cents.

5949 Lady's Middy Dress.—This is the nicest type of the fashionable middy dress and is one particularly easy to develop. The garment closes at the left side of the front and has the blouse joined to a six-gored skirt. White serge can be used to good advantage.

The pattern, No. 5949, is cut in sizes 32 to 40 inches bust measure. Medium size requires 5⅝ yards of 36-inch material. Price of pattern, ten cents.

3117 Boy's Shirt Blouse.—This practical shirt blouse is made entirely plain with back yoke and removable turn-down collar. It is a good, sensible style and one that can be easily laundered. Madras or linen can be used to make this blouse.

The pattern, No. 3117, is cut in sizes 4 to 16 years. Medium size requires 1¾ yards of 36-inch material. Price of pattern, ten cents.

5701 Lady's Four-Piece Skirt.—This skirt can be used to complete a coat suit or it can be worn with separate shirt waists. It is cut in four pieces and is made with the empire waist line. Serge or cheviot can be used to make this skirt.

The pattern, No. 5701, is cut in sizes 22 to 30 inches bust measure. Medium size requires 3⅞ yards of 36-inch material. Price of pattern, ten cents.

5519 Lady's Norfolk Waist.—The Norfolk waist is appropriate for all seasons of the year. This waist closes at the front. Linen or serge can be used to make this waist, with the collar and cuffs of contrasting material.

The pattern, No. 5519, is cut in sizes 32 to 42 inches bust measure. Medium size requires 4⅜ yards of 36-inch material, with ¾ yard of 27-inch contrasting goods. Price of pattern, ten cents.

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The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

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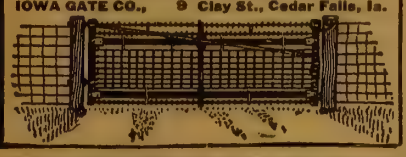

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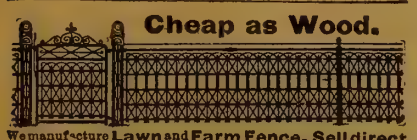

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THE LIVE STOCK MARKET.

Chicago, Ill., March 22, 1913.—Cattle trade is on anything but stable basis. The consumer is balking and he has a convincing method of doing so by curtailing purchases. On runs that would have been regarded as meager a few years ago prices have failed to hold and killers have been indifferent. A few steers are selling above $9, but the proportion above $8.75 is small and a spread of $8.15 to $8.65 is taking the bulk. Not to exceed 5 per cent of the total crop is selling above $8.75 and the few cattle killers are getting below $8 are either crooked or only thinly covered with beef. Declines for the week are 15 to 25 cents and the market is on insecure footing at that. Heavy cattle are losing what little popularity they enjoyed all winter and demand is centering emphatically on 1,100 to 1,300-pound bullocks, which are scheduled to hold the premium as temperatures rise. A suspicion exists that feeders have more than enough big cattle to go around, this condition being usual when the country is as full of feed as during the past winter. Nobody in the trade is predicting much lower prices, but beef is now costing around 12½ cents in the carcass, on the hooks, and after the distribution has levied his toll and the retailer has taxed his clients every cent the traffic will bear the burden of the consumer is not calculated to lead to extravagance in the use of beef. Butcher cattle are relatively scarce and that market is charting a course independent of steer trade, but it is a very uneven market and even active traders are somewhat hazy in their ideas of values. Cow beef is wanted and speculation is usually a strong factor in making prices. A few choice heifers are selling up to $8.75, but $5.50 to $7.75 is the range at which the bulk of cows and heifers cross the scales. Bulls are the scarcest article purveyed at the stock yards, bologna material selling as high as $6.75. The crop of bulls in the country has been closely garnered and sausage makers are experiencing trouble securing "filler." Veals had a $1 break this week, but the market appears to be healthy on that basis, a 25-cent reaction being prompt, choice veals selling at $11 to $11.35. The big Wisconsin run has not yet set in, but high cost of pork and mutton warrants expectancy of a good market for veals.

Stocker and feeder trade is badly out of joint with the fat cattle market. Dealers are not advising investment at current prices, but the country is purchasing, regardless of cost, a lot of unfinished cattle going into finishers' hands at $7.50 to $8, with choice feeders up to $8.25. In the Southwest a burning furore is on. Cow stuff is commanding anywhere from $40 to $60 per head down in Texas and little, runty Mexican cows are selling freely at $25 to $30. Extensive transactions in yearlings at $30 and aged cattle at $50 to $60 are reported, two-year-old steers making $50 for July delivery. Considerable eastern demand for stockers has developed recently. Some Ontario light stuff is going through Buffalo to Ohio and Pennsylvania points and scarcity reports continue to roll in from all points of the compass.

STEERS.

Prime steers, 1,350-1,700 lbs.	$9.00@9.20
Choice steers, 1,250-1,500 lbs.	8.85@9.15
Choice steers, 1,100-1,240 lbs.	8.75@9.00
Good to prime yearlings....	8.40@8.71
Medium to good yearlings..	8.00@8.40
Common to fair yearlings..	7.25@7.90
Good steers, 1,100-1,400 lbs.	8.20@8.60
Good steers, 900-1,200 lbs...	8.00@8.60
Fair steers, 900-1,200 lbs....	7.65@7.90
Medium steers, 850-950 lbs..	7.40@7.50
Inferior steers, 850-950 lbs..	7.00@7.35
Common steers, 800-850 lbs.	6.75@7.00

BEEF COWS.

Choice to prime fed cows...	$6.85@8.00
Good to choice cows.....	6.10@6.85
Fair to good cows.....	5.50@6.10
Com. to fair butcher cows..	5.10@5.40

CANNERS AND CUTTERS.

Good to ch. heavy cutters..	$4.75@5.00
Fair to good light cutters..	4.50@4.75
Fair to good canners.....	4.15@4.45
Poor to fair canners.....	4.00@4.15
Old, thin, weak shells.....	3.25@3.75

HEIFERS.

Choice to prime heifers.....	$7.50@8.25
Good to choice fed heifers..	6.75@7.40
Fair to good heifers.....	6.15@6.75
Common to fair heifers.....	5.00@6.10

BULLS.

Good to choice bolognas....	$6.30@6.50
Light and medium bolognas.	5.90@6.25
Canner and poor light.....	5.00@5.85
Fair to choice butchers.....	6.60@7.00
Choice to fancy beef.....	7.00@7.40

VEAL CALVES.

Good to choice vealers....	$10.75@11.25
Fair to good light vealers	10.25@10.75
Strong weight vealers....	7.50@9.00
Good to choice stock calves	7.00@7.65
Inferior to fair hvy. calves	4.75@6.25
Good to ch. heavy calves.	6.50@7.75

HOGS.

After reaching the highest level of the year, when the bulk sold at $9 to $9.15, with a $9.25 top, hog values have reacted slightly, due to decrease in eastern demand, to which influence the market is very susceptible. At the low spot of the week the top was $9.10 and $8.85 to $9 bought the bulk, but the close of the week showed a 10-cent advance from that basis. Quality continues good, although some soft-killing southern hogs of the nutcracker variety are showing up, selling at $7 to $8. Light weights have the call, shipping orders calling for weights of 200 pounds or less and considerable sorting is necessary to make up these packages. The run is carrying a large proportion of 240 to 280-pound hogs and a decided paucity of pigs. The winter packing season is over without any accumulation in packers' cellars and distributors will be on a hand-to-mouth basis all summer. Export trade is of fair volume, considering cost, and the South is a heavy buyer of product, while fresh meat trade is of unprecedented volume measured by supply, and while at current high levels bullish opinion is by no means noisy, present prices are believed to be legitimate and no sharp decline is expected. Eastern hogs will not run freely until well along in May and shipping demand here from that source will be urgent for several weeks to come. The provision pit and hog market have not been on speaking terms for some time past. Hogs are costing close to 9 cents, while May and July product is one an 8¼-cent basis, which warrants expectancy that buyers of futures will be attracted into the market on declines. Supply at Omaha and Sioux City is running much lighter than last year, indicating that herds in that territory have been ravaged by disease.

SHEEP.

Live mutton trade has been somewhat erratic and uneven. The 9-cent lamb has taken the count and most of last week $8.85 was the limit on the best Colorados, with the bulk between that figure and $8.50. It is mainly a run of Colorado lambs and minus the crop from that source killers would be in a bad way. Prices are on a lofty basis and shipping demand is the sole support of the list. When eastern orders fall down packers speedily dictate terms to the selling side. Yearlings are scarce and selling up to $8.25, while choice wethers are quotable to $7, but that kind is in a class by itself and few sheep are crossing $6.80, with a lot of fed stuff from Montana around $6.50. A few ewes have sold up to $6.90, but $6 to $6.50 takes the bulk of ewes. Killers discriminate against weight and light stuff monopolizes popularity.

Lambs, g'd to prime handy..	$8.60@8.90
Lambs, good to prime hvy.	8.00@8.60
Lambs, fair to good natives	8.25@8.65
Lambs, common to fair light	8.00@8.25
Lambs, culls	6.75@8.00
Wethers, good to prime....	6.60@7.00
Yearlings, fair to ch. handy	7.50@8.25
Yearlings, fair to ch. heavy	7.15@7.75
Ewes, fair to best handy...	6.25@6.85
Ewes, culls	4.25@5.00
Bucks	4.50@5.50
Lambs, feeders and shearers	7.50@8.35
Wethers, feeders	5.50@6.25

The hookworm commission is doing splendid work in Texas, writes Dr. Bell C. Eskridge. This commission was made possible by a gift of $1,000,000 from John D. Rockefeller, to be handled by a board of trustees and to be given to the health boards of the states that might make application. Investigation in each state is under the supervision of the state board of health.

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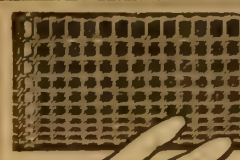

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HOW IS IT WOVEN? See the **Square Deal Lock**—"the knot with a grip that will not slip." See the wavy strand wires that spring Square Deal fencing back into place after sudden heavy strains and keep it tight and trim the whole year round. See the one-piece stay wires that prevent sagging, bagging and buckling to let the pigs under—requires fewer posts, saving money, time and labor.

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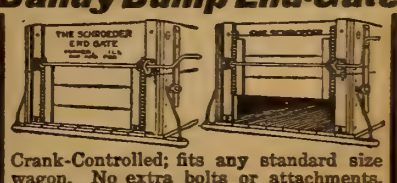

Crank-Controlled; fits any standard size wagon. No extra bolts or attachments. Regulates the flow of grain. Saves your time and breakage. Write for our **free crib plan.**

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NEWS OF THE SALE RING

The Waterloo Holstein Sale.

The sale of Holstein-Friesian cattle held at Waterloo, Iowa, on March 18th and 19th, under the management of the Iowa Holstein Breeders' Company, was very successful and the management is to be complimented on the outcome of the sale. The average of $269 made on 110 head must be very gratifying to every breeder of Holsteins. It indicates a strong demand for good cattle of this breed. R. B. Young, Buffalo Center, Ia., sold an exceptionally high-class lot of cattle and Buffalo Caroline, of his consignment, a beautiful two-year-old heifer with an excellent record, topped the sale at $530, selling to David Coleman. Colonel Perry sold the offering in a highly satisfactory manner. A list of sales is appended:

FEMALES.

Lady May Sturtevant, calved September, 1909; Guy Monroe, Elberon, Iowa 250
Beechwood Bird Ormsby, calved December, 1910; Bert Siver, Strander, Minn. 200
Beechwood Pet Ormsby, calved December, 1910; H. A. Ehrinberg, Waconia, Minn. 200
Beechwood Maud Ormsby, calved September, 1910; Roy Husband, Sumner, Iowa 225
Beechwood Topsy Butter Girl, calved March, 1904; A. J. Frost, Grundy Center, Iowa 205
Friend Aaggie De Kol Queen 2d, calved June, 1910; Grover Netheraway, Burton, Mich. 300
Beechwood Jennie De Kol, calved May, 1905; M. H. Edor, Strawberry Point, Iowa 30
Beechwood Judy Sturtevant, calved March, 1909; LeRoy Anderson, Radcliffe, Iowa 3
Beechwood Babe Ormsby, calved May, 1910; H. A. Ehrinberg 22
Martia Girl Imperial, calved March, 1906; A. Rehart, New Hampton, Iowa 175
May Hengerveld, calved March, 1908; R. Bohren, Monticello, Ia. 200
Artis Leafy 2d, calved July, 1909; J. R. Walker, Parkersburg, Iowa 200
Ethel Pansy, calved April, 1911; Grover Nethaway 230
Lass Virgie, calved June, 1911; Thos. Hanson, Cedar Falls, Ia.. 195
Princess Clothilde Burke, calved October, 1911; Thos. Hanson.... 150
Ormsby Verbelle De Kol, calved October, 1909; J. V. Lingenfelter, Altoona, Iowa 230
Nudine De Kol Daw, calved June, 1911; Grover Nethaway 200
West Side Fransje Princess, calved December, 1911; W. H. McIntosh, Dunkerton, Iowa 200
West Side Zuba Princess, calved December, 1911; F. C. Zirmer, Waconia, Minn. 225
Anna Pondyke Duchess, calved March, 1910; Grover Nethaway.. 250
Molly De Kol Pondyke, calved April, 1909; Bert Siver 350
Netherland Belle Pondyke, calved January, 1911; H. H. Schroedenmeir, Waverly, Iowa 210
Lighty De Kol Pondyke, calved December, 1908; F. S. Miller, Waterloo, Iowa 275
Johanna Koningen Fobes, calved May, 1909; Carl Green, Whiting, Iowa 250
Diotime Alcartra, calved December, 1907; H. A. Smucker, Waterloo, Iowa 400
Noontide De Kol, calved March, 1903; Wm. Galloway, Waterloo, Iowa 350
Buffalo Mildred, calved November, 1907; R. M. Elliot, Dike, Ia.. 400
Buffalo Ruth, calved January, 1910; H. C. Hornerman, Watseka, Ill.. 330
Cusha Netherland Twisk, calved February, 1906; Elliott Bros., Woodward, Iowa 500
Boyden Lady, calved December, 1907; H. C. Horneman 300
Ona Dikkert De Kol 2d, calved April, 1907; Grant Miller, Waterloo, Iowa 250
Buffalo Adriene Johanna, calved March, 1911; J. D. Herrick, Fredericksburg, Iowa 280
Buffalo Marcia Doede, calved February, 1912; F. C. Ziener 225
Buffalo Bodora Beets, calved May, 1911; H. H. Schroedonmeir 295
Sheridan Johanna Wayne De Kol, calved August, 1910; H. H. Schroedonmeir 280
Christmas Belle Pietertje, calved December, 1906; David Coleman, Denison, Iowa 500
Buffalo Caroline, calved February, 1910; David Coleman 530
Buffalo Belle, calved December, 1907; J. D. Stalter, Gridley, Ill.. 405
Buffalo Lois Johanna, calved December, 1910; M. Sweeney, Watseka, Ill. 500
Buffalo Belle Skylark, calved December, 1909; E. L. Swell, Waverly, Iowa 350
Oakhurst Netherland Anna, calved February, 1907; F. J. Kenney, Watseka, Ill. 350
Buffalo Charlotte Johanna, calved December, 1911; H. C. Horneman 300
Oakhurst Inka Sharpe, calved March, 1903; Grover Nethaway.. 350
Buffalo Annie Skylark, calved March, 1910; Wm. Galloway..... 400
Buffalo Melita Beets, calved January, 1912; H. C. Horneman..... 300
Buffalo Daisy Korndyke, calved September 1910; F. C Christopher, New Hampton, Iowa..... 395
Buffalo Ruth Beets, calved January, 1911; H. H. Schroedenmeir. 300
Buffalo Anna Johanna, calved September, 1910; David Coleman... 360
Buffalo Lysias Johanna, calved October, 1911; Wm. F. Goltry, Russell, Iowa 350
Buffalo Maia Johanna, claved October, 1911; Wm. F. Goltry..... 355
Buffalo Ursena Colantha, calved December, 1909; F. N. Kenney.. 300
Buffalo Artis Beets, calved February, 1911; Bert Siver..... 320
Buffalo Artheusa Johanna, calved March, 1911 Wm. Galloway..... 380
Lady Grace De Kol Johanna, calved December, 1902 Wm. Galloway.. 345
Buffalo Estella Beets, calved January, 1910 LeRoy Anderson..... 305
Buffalo Laura Skylark, calved September, 1909 Eli Messer, Dysart, Iowa 330
Buffalo Eleanor Skylark; W. H. McIntosh 335
Buffalo Venus Beets, calved February, 1911; Ed Goss, Waverly, Ia. 300
Buffalo Panzie Skylark calved December 1909; Goss Bros., Waverly, Iowa 480
Buffalo Ella, calved December, 1907; J. M. Chestnut, Denison, Kan. 400
Buffalo Topsy Johanna, calved October, 1910; W. A. Hubbard, Waverly, Iowa 350
Buffalo Aphrotites Beets, calved 1911; E. Gerlach, Fredericksburg, Iowa 390
Buffalo Friend Colantha, calved October, 1911; H. H. Schroedonmeir 305
Shady Netherland Rue, calved November, 1906; M. E. Talcott, Maynard, Iowa 395
Buffalo Molly Beets, calved November, 1910; Ross & Dirhl, Fairbanks, Iowa 450
Buffalo Poppy Beets, calved July, 1911; L. Petrock, Cedar Rapids, Iowa 300
Buffalo Abigail Beets, calved December, 1911; Grover Nethaway.. 200
Buffalo Bess Johanna, calved October, 1911; LeRoy Anderson.... 300
Buffalo Juno Johanna, calved March, 1911; A. B. Dickenson, Lake Geneva, Wis. 325
Rhoda Jewel Abbekerk 4th, calved December, 1906; F. N. Kenney.. 290
Aaltje Wayne De Kol, calved January, 1911; Chas. Rohr, Elma, Ia. 175
Lady Rose Hengerveld, calved December 1906; Wm. Galloway..... 240
Pietertje Gerben Korndyke, calved December, 1911; C. A. Nelson, Waverly, Iowa 155
Jeek Queen Pauline Korndyke, calved November, 1912; W. B. Barney & Son, Chapin, Iowa.... 125
Mercedes Milkmaid Korndyke, calved November, 1912; F. C. Ziener 135
Pledge Fayne De Kol 2d; McKay Bros., Waterloo, Iowa 160
White Violet Korndyke, calved November, 1912; W. L. Lashbrook, Northfield, Minn. 150
Lady Cornucopia, calved April, 1907; J. T. Galford, Ventura, Iowa 260
Maple Leaf Aaggie Cornucopia, calved October, 1907; Grover Nethaway 225
Jessie Pel Pauline, calved January, 1907; C. J. Dunhan, Cedar Falls, Iowa 205
Polly Hengerveld De Kol, calved April, 1909 205
Rosa Inka De Kol, calved March, 1904; Bert Siver 225
Imilda Johanna, calved March, 1905; M. E. Talcott, Maynard, Ia. 170
Nutula Colantha, calved January, 1903; L. C. Myers, Shellrock, Ia. 135
Patty Coin Pietertje, calved July, 1904; Grover Nethaway..... 215

BULLS.

Buffalo Henry Doede, calved October, 1912; L. Petrok, Cedar Rapids, Iowa 140
Buffalo Erik Johanna; B. F. Efrink, Chenoa, Ill. 270
Buffalo Akbar Johanna, calved October, 1911; J. M. Schmidt, Motley, Minn. 305
Buffalo Walter Doede, calved November, 1912; Wm. Peick, Littleport, Iowa 150
Buffalo Porthos Johanna, calved November, 1911; J. M. Jacobs, Forest City, Iowa 155
Buffalo Forty Beets, calved November, 1911; A. B. Dickerson, Lake Geneva, Wis. 500
Buffalo Horace Doede, calved December, 1912; D. Bochneler & Son, Cedar Falls, Iowa 120
Buffalo Goliath Beets, calved October, 1911; F. E. Roderick, Clare, Iowa 250
Buffalo Hugo Beets, calved November, 1912; J. M. Verdirr, St. Joseph, Mo. 175
Buffalo Maurice Doede, calved November, 1912; Chas. Adams, St. Joseph, Mo. 120
Westside Prince Baroness Mona, calved December, 1911; J. H. Herrick, Fredericksburg, Iowa..... 215

SUMMARY.

110 head .....$29,600; aver.....$269

The Anstey Hereford Sale.

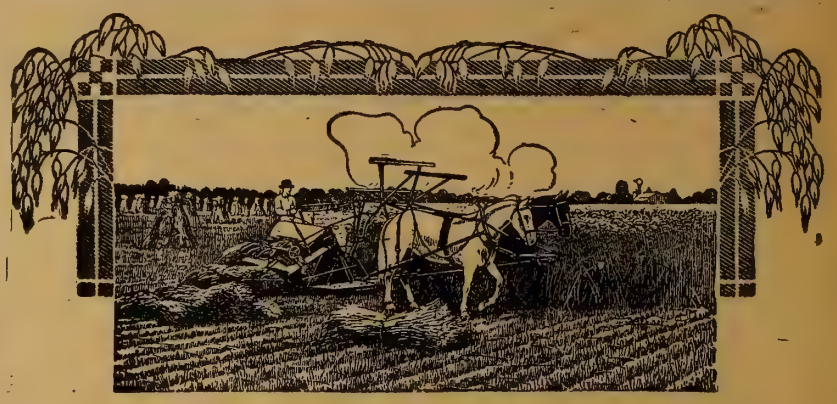
One of the largest crowds that has been seen at a Hereford sale in South Omaha in recent years was in attendance at the sale of George J. Anstey, Massena, Iowa, on March 18th, when he sold fifty-two head at an average of $147. Twenty-five head of females averaged $183.20, the top being the splendid cow, Emme, a daughter of Beau of Shadeland 10th, that went to J. P. Saunders at $350. Mr. Anstey had originally intended selling in April or May and in consequence his cattle were not in high flesh, but everything that he sold was a good bargain for the man that bought. Col. Fred Reppert cried the sale, assisted by Colonel Cruise, Massena, Iowa, in the ring, and both did good work. Below we list those selling for $100 and over:

BULLS.

Japson, calved August, 1911; I. R. Grace, Milford, Iowa.....$102
Reno, calved August, 1911; John Gosling, Kansas City, Mo..... 165
Julies, calved April, 1911; E. Brookman, McClelland, Iowa.... 130
Art 2d, calved April, 1911; John Gosling 150
Fairview Chief, calved December, 1911; E. C. Rundell, Hurley, S. D. 160
Marquess Lorne, calved September, 1911; Peter Cullen, Massena, Iowa 150
Otto, calved October, 1908; T. W. Matthews, Spearfish, S. D..... 150
John L., calved April, 1911; Thomas Slater, Imogene, Iowa..... 105
Count 2d, calved December, 1910; George Harrah, South Omaha, Neb. 100
Joseph, calved May, 1911; M. J. Williams, Glenwood, Iowa..... 150
E. Donald, calved July, 1911; E. E. Holmewood, Thayer, Iowa..... 105
Liston, calved April, 1911; W. M. Walters, Wiota, Iowa..... 180
Emporia, calved April, 1911; M. J. Christopher, Underwood, Iowa.. 130

FEMALES.

Jess, calved August, 1906; Joe Saunders, Cumberland, Iowa..... 105
Sweet Saucy, calved March, 1909; Gibbons & Son, Atlantic, Iowa.. 325
Fantazma, calved March, 1909; Geo. A. Keffenberger, Plattsmouth, Neb. 145
Lady Yield, calved April, 1908; J. P. Saunders, Cumberland, Iowa.. 200
Conceit, calved August, 1910; Peter Cullen, Massena, Iowa..... 135
Fairview Lass, calved May, 1910; J. P. Saunders..... 205
Clementine, calved September, 1909; Thomas Nelson, Craig, Neb..... 150
Crissy 10th, calved February, 1909; W. M. Walters, Wiota, Iowa.... 195
Robiner, calved April, 1908; R. P. Clark, Brayton, Iowa..... 170
Dona, calved October, 1907; J. B. Ashby, Audubon, Iowa..... 160
Margaret, calved August, 1910; N. D. Mysenberg, David City, Neb. 160
Miss Maud, calved May, 1907; W. M. Walters 140
Sunbeam 8th, calved July, 1908; J. P. Saunders 185
Bessie, calved March, 1908; J. A. Shade, Kingsley, Iowa..... 260
Fairview Orange, calved May, 1910; R. P. Clark 175
Emme, calved January, 1909; J. P. Saunders 350
Francie, calved November, 1906; R. P. Clark 145
Curley Spark, calved July, 1910; N. D. Mysenberg 165
Lady Bird, calved July, 1909; J. P. Saunders 250
Miss Bee, calved July, 1909; Thom-



Yours Is the Work That Counts

YOUR season's work means a great deal to you. After you have fertilized your soil, plowed, harrowed and perhaps rolled it, planted your seed in the carefully prepared seed bed, tended the growing crops and watched the grain ripen, you have a right to a full harvest. You can be sure of a 100 per cent return from your fields when you use efficient modern machines for your farm work. You would certainly be taking an unwise and unnecessary chance if you bought a machine that might not do your work as it should be done. To be on the safe side, buy I H C harvesting and haying machines and tools, all of which have proved their reliability through years of experience with harvesting and haying conditions on farms in every part of this country. These dependable machines may be identified by the following well-known names:

Champion Deering
McCormick Milwaukee
Osborne Plano

There is no better time than the present to investigate and decide which machine is the best for you to buy. The opinion of your neighbors is valuable, and should help you to come to the right decision. All of the machines are so simple that they may be handled by ordinary farm help. They are so efficient that there is no question of their capacity for cutting, binding, and saving all the grain in any field, whether it be heavy or light, tall or short, standing, down, or tangled. The haying machines are as efficient as the harvesting machines. When you buy an I H C machine you do away with any chance for unreasonable delay at harvest time. Should anything happen to your machine, it is possible, no matter where you may be, for you to obtain repairs in a few hours' time. Our efficient organization, which includes nearly a hundred general agencies carrying complete stocks of repairs, and over thirty thousand local dealers who carry repairs for the machines they handle, is the most practical guarantee you can have that your grain will be cut and bound at the proper time, and without delay and annoyance.

To secure the best results from these good machines, it is necessary to use a strong, smooth binder twine of reliable quality. I H C binder twine is made under seven brand names—Champion, Deering, McCormick, Milwaukee, Osborne, Plano, International, each in four grades—pure manila, manila, sisal, and standard. Each ball of twine marked with any of these names is guaranteed for length, strength and uniformity of size and quality.

Yours is the work that counts. Make sure that it is done as it should be done by seeing the I H C local dealer and buying from him the I H C harvesting and haying machines, tools, and binder twine that you will need for this harvest. He will supply you with catalogues and full information, or, write

International Harvester Company of America
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Chicago U S A

as Nelson 145
Miss Lassie, calved July, 1909; J. P. Saunders 200
Saucy, calved November, 1909; J. P. Saunders 105
Fairview Bess, calved January, 1910; N. D. Mysenberg..... 185
Jane Hewer, calved August, 1910; J. P. Saunders..... 160
Dollie, calved July, 1910; J. P. Saunders 150

SUMMARY.

25 females ....$4,580.00; aver...$183.20
27 bulls ..... 2,983.50; aver... 110.57
52 head ..... 8,644.00; aver... 147.00

The Clark Hereford Sale.

The sale of R. P. Clark at Brayton, Iowa, on March 21st, encountered the worst storm of the season and notwithstanding he had a splendid crowd of buyers and sold forty-four head of cattle at an average of $140. The females made an average of $165.75 and the bulls $110.57. The top of the sale was Nell Gwyn and Petunia 20th, the former going to P. Gorman, Dougherty, Iowa, and the latter to Ben Broughton, Lake View, Iowa, at $310 each. The herd bull, Gay Donald 12th, went to E. E. Homewood, Thayer, Iowa, at $200 and he was one of the decided bargains of the sale. Colonels Reppert and Kraschel did the selling and handled the sale in splendid shape. Below we list those selling for $100 and above:

BULLS.

Gay Donald 12th, calved January, 1909; E. E. Homewood, Thayer, Iowa $200
Polled Curley, calved April, 1909; J. W. Kern, Traer, Iowa..... 165
Triumph, calved June, 1911; Thos. Gannon, Duncombe, Iowa..... 100
Acrobat 4th, calved August, 1911; J. A. Bass, Red Oak, Iowa..... 100
Eddie Jr., calved October, 1911; Frank A. Fetrow, Webster City, Iowa 100
Rex Donald 2d, calved June, 1912; Francis Mayne, Harlan, Iowa... 195
Stylish Lad, calved June, 1912; D. G. Jones, Emerson, Iowa..... 205
Peter Sconce, calved February, 1912; J. A. Bass..... 145
Czar, calved August, 1911; Francis Mayne 150

FEMALES.

Style Enough, calved October, 1900; Parmlee & Pierson, Villisca, Ia.. 125
Luminary, calved March, 1903; Francis Mayne 155
Cora Boatman, calved August, 1904; Parmlee & Pierson..... 135
Lady Hesiod Hewer, calved December, 1904; J. C. Powell, Guthrie Center, Iowa 110
Nell Gwyn, calved May, 1906; P. Gorman, Dougherty, Iowa..... 310
Lucy Vanguard, calved April, 1907; Ben Broughton, Lake View, Ia. 300
Dale's Lady, calved April, 1907; A. F. Hager, Avoca, Iowa..... 110
Lady Wilton 9th, calved June, 1907; B. W. Gregory, Harlan, Iowa.... 145
Nita March On, calved July, 1907; P. Gorman 210
Cinderella, calved November, 1907; Parmlee & Pierson..... 100
Martie, calved March, 1908; Joe Miller, Prescott, Iowa..... 195
Bessie, calved May, 1908; J. T. Walters, Wiota, Iowa..... 135
Petunia 20th, calved September, 1908; Ben Broughton 310
Anita, calved January, 1909; W. M. Walters, Wiota, Iowa..... 170
Florence, calved October, 1909; Gibbons & Son, Atlantic, Iowa.. 125
Daisy, calved April, 1910; P. Gorman 135
Phoebe, calved June, 1910; C. R. Dimmick, Brayton, Iowa..... 135
Doris, calved August, 1910; P. Gorman 13
Barbara, calved August, 1910; Parmlee & Pierson..... 145
Robiner, calved April, 1908; Chas. Griffith, Hudson, Iowa..... 180
Fairview Orange, calved May, 1910; Chas. Griffith 180
Francie, calved November, 1906; Chas. Griffith 175

SUMMARY.

23 cows .....$3,810; aver.....$165.75
21 bulls ..... 2,322; aver..... 110.57
44 head ..... 6,132; aver..... 140.00

De Kalb's Great Hampshire Sale.

The greatest sale of Hampshires that has ever been held was that of H. D. De Kalb at Council Bluffs, Iowa, on March 12th, when he sold forty-eight head at an average of $198. This not only beats all previous records, but is $40 higher than any Hampshire sale has ever brought before. It was an offering that was strictly high class and the outcome speaks well for Mr. De Kalb and his herd. The top of the sale was the great sow, Jennie Aylor 6th, a daughter of his well-known boar, Major, and she was secured by the Sal Tone Stock Farm, Greensburg, Ind., at $460, which is the highest price ever paid for a Hampshire sow. She belongs to the celebrated Aylor family that has done so much for Mr. De Kalb's herd and the Hampshire breed. Cols. N. G. Kraschel and H. S. Duncan did the selling and they certainly did a good job of it. Below is a list of the tops:

1. S. C. Bennefield, Leon, Iowa...$205
2. Sal Tone Stock Farm, Greensburg, Ind. 200
3. R. E. Fisher, Winside, Neb... 230
4. Dan S. Zayer, Peoria, Ill..... 150
5. Sal Tone Stock Farm..... 460
6. G. P. Paulson, Nora, Neb..... 260
7. S. C. Bennefield..... 250
8. S. C. Bennefield..... 100
9. C. H. Bramley, Arion, Iowa... 90
10. A. W. Machacek, Beemer, Neb. 87
11. S. W. Johnson, Yutan, Neb... 92
12. F. Shrick, Cummings, Kan..... 92
13. University of Nebraska, Lincoln, Neb. 90
14. G. Zayer 80
15. William Pamp, Benson, Neb.... 92
16. E. W. Johnson..... 80
18. F. W. Lemmerman, West Liberty, Iowa 72
19. J. D. Beckendort, Walnut, Ia.. 70
20. C. B. Paulhon..... 150
22. A. Newmyer, Lyons, Neb..... 62
24. E. E. Williams, Redfield, S. D.. 75
26. Fred Newmeyer, Breda, Iowa.. 62
31. W. Scheele, Nishna Botna, Ia.. 67
33. Frank Shrick 90
34. C. Zehr, Peoria, Ill..... 70
36. J. E. Cower, Bladen, Neb..... 85
37. E. Manley, Lyons, Iowa..... 70
39. Sal Tone Stock Farm..... 115
43. Hiden & Croft, Denison, Iowa. 72
46. F. W. Zimmerman 80
47. H. Norria, Magnolia, Iowa..... 70
51. E. S. McCandless, Thurman, Ia. 137
52. Edwin Dunn, Prairie City, Ia.. 125
53. W. Scheele 72
54. A. L. Giltner, Madison, Neb.... 125
55. E. S. McCandless 100
56. J. M. Giltner, Madison, Neb... 65
58. R. B. Steele, Mallory, Iowa.... 75

The Hager Hereford Sale.

One of the largest and best crowds seen at a Hereford sale this spring was present at the A. F. Hager sale at Avoca, Iowa, on March 20th, and he disposed of fifty head at an average of $167.50. The top was Beau Charm 2d, a two-year-old bull, and he went to Thomas Mortimer, Madison, Neb., at $460. He also bought the two herd bulls, St. Elmo R. and Clearmont Lad, at $255, and he certainly got two great bargains in these two herd bulls. He also was a good buyer of young bulls. The top of the females was Lillie 8th, a daughter of St. Elmo R., and she went to Ben Broughton at $350. Mr. Broughton also secured some of the other best females in the sale, as did also A. Spooner & Son, Mondamin, Ia. The outcome of this sale was very satisfactory to Mr. Hager and those attending got some good bargains. Colonels Kraschel and Reppert cried the sale and both did good work. Below we list the entire offering:

BULLS.

St. Elmo R., calved February, 1907; Thos. Mortimer, Madison, Neb..$255
Beau Charm 2d, calved December, 1910; Thos. Mortimer 460
St. Elmo 25th, calved June, 1911; E. H. Stroebel, Hancock, Iowa.. 185
St. Elmo 28th, calved October, 1911; C. J. Taylor..... 150
St. Elmo 32d, calved January, 1912; John Gosling, Kansas City, Mo.. 155
Knightly Lad 2d, calved December, 1911; F. J. Haas, Shelby, Iowa.. 150
Knightly Lad 3d, calved January, 1912; Fred Arentsen, Walnut, Ia. 165
Knight Lad 4th, calved January, 1912; R. W. Phelps, Spencer, Neb. 105
Albany Jr., calved February, 1912; C. J. Taylor..... 220
Pierce Arrow, calved April, 1912; R. W. Phelps 115
Sibley Lad, calved April, 1912; N. D. Mysenberg, David City, Neb. 170
Avoca Ensign, calved April, 1912; T. J. Johnson, Oakland, Iowa.... 185
Avoca Sergeant, calved February, 1912; F. W. Pierce, Oakland, Ia.. 180
Avoca Wilton, calved March, 1912; A. Spooner & Son.....4..... 130
Alco, calved April, 1912; R. W. Phelps, Spencer, Neb..... 110
Clearmont Lad, calved June, 1906; Thomas Mortimer 255
Shady Lad, calved October, 1911; H. A. Campbell, Walnut, Iowa... 175
Knightly Lad 5th, calved January, 1912; R. W. Phelps..... 105
Adam C., calved March, 1912; Thomas Mortimer 125
Clearmont's Pride, calved February, 1912; Thomas Mortimer.... 230
Monarch Wilton, calved August, 1911; Thomas Mortimer..... 215
St. Elmo 31st, calved December, 1911; John Gosling..... 200
Winton Six, calved April, 1912; R. W. Phelps 115
St. Elmo 30th, calved November, 1911; H. W. Helbs, Elgin, Iowa 185
National, calved April, 1912; W. L. Trow, Walnut, Iowa..... 115
St. Elmo 29th, calved October, 1911; Chas. Holdorf, Shelby, Ia. 165

FEMALES.

Lillie 8th, calved January, 1910; Ben Broughton, Lake View, Ia.. 350
Lady Weston 2d, calved June, 1911; Chas. Wail, Kingsley, Iowa..... 150
Lady Britton 46th, calved March, 1911; Ben Broughton 220
Lady Britton 42d, calved April, 1900; Geo. Barge, Avoca, Iowa.. 125
Lady Britton 47th, calved October, 1911; Ben Broughton 175
Rena 6th, calved December, 1911; A. Spooner & Son, Mondamin, Ia. 122
Delilah 7th, calved February, 1912; Chas. Wait 115
Lady Broudon 18th, calved September, 1910; Frank Markel, Lawler, Iowa 185
Lady Brandon 14th, calved March, 1907; Ben Broughton..... 260
Fannie 8th, calved March, 1911; Ben Broughton 190
Delila 3d, calved May, 1899; J. B. Ashby 100
Lelia 2d, calved April, 1904; R. P. Clark, Brayton, Iowa..... 140
Fannie 11th, calved January, 1912; A. Spooner & Son..... 122
Fannie 6th, calved May, 1910; Ben Broughton 150
Fannie 9th, calved November, 1911; A. Spooner & Son..... 122
Fannie 10th, calved November, 1911; Ben Broughton 125
Rena 2d, calved May, 1899; Virgil Waterbury, Corley, Iowa..... 105
Lady Real 7th, calved April, 1902; Gibbons & Son, Atlantic, Iowa. 105
Delila 6th, calved November, 1911; Chas. Wait 115
May Donald, calved May, 1909; Frank Hann, Harlan, Iowa..... 250
Lillie 8th, calved October, 1910; A. Spooner & Son..... 170
Lillie 11th, calved November, 1911; A. Spooner & Son..... 122
Miss Dale, calved February, 1911; Frank Markel 150
Pretty Maid, calved December, 1911; J. B. Ashby, Audubon, Iowa 120
Miss Major 2d, calved October, 1911; A. Spooner & Son..... 100
Lillie 12th, calved December, 1911; A. Spooner & Son..... 122

SUMMARY.

25 bulls .....$4,470; aver....$179.00
25 females ..... 3,907; aver.... 156.00
50 head ..... 8,377; aver.... 167.50

Smith & Son's Short-horn Sale.

A nice gathering of farmers and a splendid attendance of breeders from a distance were in evidence at the Short-horn cattle sale made by H. Smith & Son, Tobias, Neb., on March 18th. A very disagreeable day was encountered, a fierce gale was blowing and the muddy roads made travel difficult. The cattle were only presented in fair flesh and more condition would certainly have resulted in higher prices. A very nice sale was made, however, and a nice lot of stuff was sold. Wm. Fagan & Sons, Abbott, Neb., and G. W. Shane, Fairbury, Neb., were the chief supports of the auction. T. E. Trobough, Fairfield, Neb., was also a strong competitor for the good ones and topped the sale. Col. H. S. Duncan did the selling, being employed in the stead of the late Geo. P. Bellows. Colonel Duncan paid a glowing tribute to his great friend. It so clearly conveys the heartfelt admiration Colonel Duncan entertained for his departed friends, which is also shared by all who knew Colonel Bellows and is of such exquisite beauty that we wish to reproduce the same. His words follow: "I have been called here in the absence of a friend to do as best I may the work first assigned him. A man who was a friend to all, yet to me more than a friend. He was as a brother, whose counsel oft I have sought, and to whose unerring advice I owe much. The countless thousands who have felt the magnetic and beneficial influence of his kind, generous and noble presence are stunned and saddened. The Short-horn breed has lost its most able exponent of all ages. American agriculture has suffered the loss of a most efficient and loyal advocate. The nation has been deprived of a perfect citizen. But yesterday he was with us, radiant with task, with cheer, with truth. Today he sleeps. The voice we loved so well to hear is silent. The hand we clasped so oft is stilled. Though only the beautiful example of his life remains, may we strive to mold ourselves to the high standard of service and character he so perfectly exemplified. With firm belief that our friend has gone to receive a greater reward than man has power to bestow, let us look up and address Geo. P. Bellows in the words of the poet:

"Thy day has come, not gone;
Thy sun has risen, not set;
Thy life is now beyond
The reach of death, or change,
Not ended, but begun;
O noble soul, O gentle heart, hail and farewell.

While the writer of this sale report also feels deeply the loss of his great friend, Colonel Bellows, yet we rejoice that American agriculture, the pure-bred stock-breeding industry and a nation is spared so able an exponent and so beautiful a citizen as Col. H. S. Duncan. The report of the sale follows:

COWS.

Emily 5th, calved March, 1911; Wm. Fagan & Sons, Abbott, Neb. $200.00
Emily 7th, calved October, 1910; Wm. Fagan & Sons..... 157.50
Scotch Belle, calved May, 1907, and c. c.; Irvin E. Wilson, Belvidere, Neb. 150.00
Scotch Belle 2d, calved October, 1910; Elmer Thompson, Friend, Neb. 140.00
Gladys Gold Dust, calved March, 1911; H. J. Endorf, Tobias, Neb. 142.50
Waterloo Duchess 16th, calved May, 1908; Jas. Houser, Alexandria, Neb. 155.00
Lady Violet 6th, calved June, 1910; G. W. Shane, Fairbury, Neb. 115.00
Gold Dust Perfection, calved June, 1911; G. W. Shane..... 162.50
Daisy Violet, calved June, 1911; Oscar Theobold, Bruning, Neb. 115.00
Red Rose 5th, calved September, 1907; Oscar Theobold... ..... 112.50
Red Rose 7th, calved July, 1911; H. A. Endorf..... 100.00
Roan Flora, calved May, 1909; G. W. Shane 170.00
Flora Gold Dust, calved June, 1908; T. E. Trobough, Fairfield, Neb..... 190.00
Pleasant Hill Queen, calved June 1903; G. H. Kleen Franklin, Neb. 122.50
Gold Dust Queen, calved March, 1909; T. E. Trobough..... 210.00
Bloomer, calved April, 1906; Joe Roesler, Tobias, Neb..... 122.50
Lady Surmise, calved May, 1911; G. W. Shane 140.00
Minnie V. 5th, calved February, 1907; Wm. Fagan & Sons..... 135.00

BULLS.

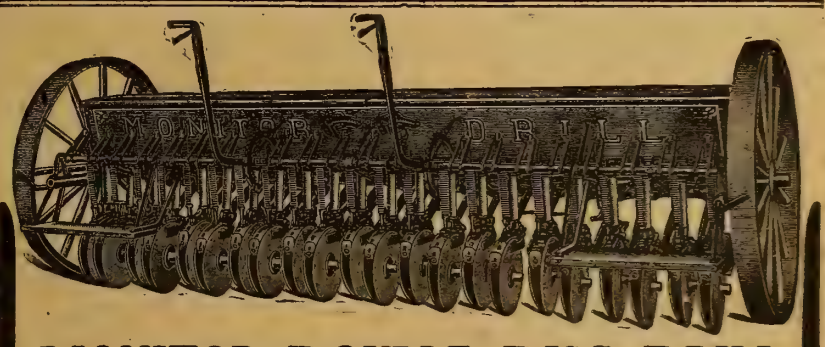
Boss Cumberland, calved July, 1912; W. M. Settles, Cedar Bluffs, Neb. 102.50
True Blue, calved July, 1911; C. H. Taylor, Edgar, Neb..... 140.00
Choice Hampton, calved January, 1912; Wm. Jarchow, Daykin, Neb. 100.00
Shylock, calved June, 1911; Joe Lorenz, Tobias, Neb..... 130.00
On The Square, calved June, 1911; Ezra C. Reams, Riverton, Neb. 125.00
Besdek, calved July, 1911; Wm. Heidemann, Tobias, Neb..... 105.00

SUMMARY.

36 head .....$4,185.00; aver....$116.30
28 cows ..... 3,317.50; aver.... 110.26
8 bulls ..... 867.50 aver.... 108.43

They are now talking of fruit storage in New Zealand. The magazine published by the department of agriculture in that country, in its November number, contains an article declaring that the rapid growth of the orchard industry has caused attention to be directed to the necessity of the cool storage at or near the orchard as well as in the center of the population. The total area of orchard is given at 55,957 acres, an increase of 7,413 acres in three years.

Ask your neighbor to subscribe to The Homestead.



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Increases the Yield
Raises the Grade
Saves 20% of the Seed

Hundreds of farmers have carefully tested out the MONITOR DOUBLE DISC DRILL and in every case have found that it increases the yield, usually from three to seven bushels to the acre—raises the grade and saves at least 20% of the seed. It will actually save its cost in a single season.

THE MONITOR WAY IS THE ONLY RIGHT WAY

It deposits the seed on the downward turn of the disc—at the bottom of the furrow—in two rows, one inch apart and covers it with moist soil and not dry top earth as is done by other drills.

Owing to its uniform depth the seed all comes up at the same time—ripens evenly, insuring better grade—increased yield with less seed—it pays for itself.

The MONITOR DRILL cannot be clogged in any soil, mud, gumbo or in weedy or cornstalk ground, and its draft is one-third lighter than any other.

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SOLD BY HOME OFFICE AND ALL BRANCH HOUSES

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Western Canada

160-ACRE FARMS IN WESTERN CANADA FREE

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New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homesteading land left.

A Swift Current, Saskatchewan farmer writes:—"I came here on my homestead, March, 1906, with about $1000 worth of horses and machinery, and just $35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 50 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta.

Send at once for Literature, Maps, Railway Rates, etc., to

Frank H. Hewitt
Des Moines, Iowa
W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.
R. A. Garrett, 315 Jackson St., St. Paul, Minn.

or Address, Superintendent of Immigration
Ottawa, Ont., Canada

S. E. KANSAS FARMS

MONTGOMERY, Wilson and Labette counties; majority in Montgomery; all under wire fence; most of them have dwellings and outbuildings; cultivated more or less; fine soil, water, schools, etc.; great grain and stock country; splendid shipping facilities; near large towns; steam and electric railways; acquired over 10 years ago for oil and gas; offering today at sacrifice prices and on reasonable terms. Write for our descriptive folder—FREE. Edgar Zinc Company, St. Louis, Missouri, or Cherryvale, Kansas.

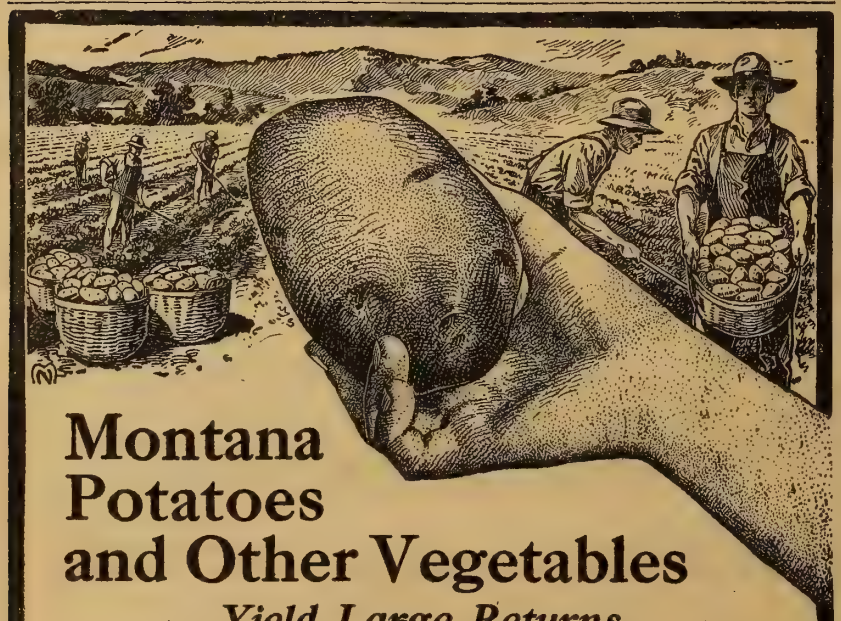
AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

Modern Residence

A GOOD eight-room modern residence, barn, chicken house and large lot, one block from college campus. For sale or exchange for Short-horns or Percheron mares. Address C. F. Curtis, Ames, Ia.

FOR SALE—Deeded land and desert and homestead entries, well improved and under a good ditch. Write for further information to WILLIAM TEW, STERLING, COLORADO.



Montana Potatoes and Other Vegetables

Yield Large Returns

W. W. Sleight, of Willow Creek, Mont., writes: "About four years ago I took up a homestead of 160 acres. I had in crop last year 10 acres of potatoes and raised over 6,000 bushels. I had also all kinds of garden truck. I took up this land for nothing and land on which you can raise 600 bushels of potatoes to the acre and get 60c a bushel you can soon figure up how it has increased in value."

The following from J. A. Siffert, Three Forks, Mont.. "Am sending you a box of potatoes from Con Lane's farm near here. He has a little less than two acres and has 450 sacks. There are about two bushels in each sack."

These Are Not Unusual Instances

They are the rule, *not* the exception. What these and their men have done you can do. Make a new start *now*. Take up a government homestead under the new three year homestead act. There are millions of acres of land that can be homesteaded and millions of acres that can be bought at $15 to $45 per acre.

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750 Marquette Building, CHICAGO

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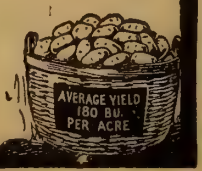

SECURING AND MAINTAINING A HIGH-CLASS DAIRY HERD.

To the Editor of The Homestead:

How a high average may be obtained and once obtained held is a problem as intricate as it is immense. Many splendid herds, created by genius, have passed into oblivion through the inability of owners to hold them up to the high average that has been attained. When a high average is reached the greatest care and skill are required, for having reached this point, there is always a tendency to degenerate. Many of the most skilful breeders of dairy cattle have been deceived by certain crosses, and it requires study and close observation to detect any error in time to prevent its extending. Whether this tendency is due to the attainment of the breeder's ideal and then a relapse, or to the exhaustion of the animal due to inadequate feeding, bad environment or bad breeding, is an intricate question.

The first and foremost aim of the breeder of a herd of pure-bred dairy cattle is to fix and perpetuate uniform characteristics in the herd. Like begets like, and were it not for their faith in this fact very few men would buy registered breeding animals; however, variation is an associate law that enables good qualities seen in an animal to be fixed and made permanent by selection. An animal may be unlike either parent in color, markings and appearances, yet possess many qualities greatly superior to either. Such an animal should not be discarded because it does not possess the markings required by the fixed standard of the herd. It is rash to reject a creative force in the shape of a sire or dam, discovered under whatever circumstances that promises to bring about the results he is seeking.

Breeders select sires and dams that have strongly inherited tendencies to breed true to one type and to transmit these inherited tendencies to their descendants, but if variation ceases and all of the animals are of one type, temperament and capacity, how are they to secure the benefits of selection? Common sense dictates that he should not keep scalawags as breeders or mate his animals promiscuously, yet I believe breeders should multiply variations to such an extent that they will have outstanding individauls in their herds to carry on the further work of improvement. It is wrong to make an idol of uniformity. The important law of variation that clothes the world with variety should be studied far enough back in ancestry and far enough ahead in ideals to enable breeders of dairy cattle to move with well-thought-out plans.

The cow that shows a profit at the end of the year gives more real satisfaction than a phenomenal producer who does her work at a loss. The dairyman's ideal of perfection is sure to be the cow that gives him the best returns, consequently she must not only be a large producer, but an economical producer. In judging registered stock for what they will produce, ancestry must be weighed to an extent of at least 50 per cent of the whole. To the man who keeps a sire or dam for producing young, a knowledge of pedigree, whether pure bred or grade, is of as much importance as the makeup of the animal itself. Estimating the value of pedigrees must ever be a determining factor in the work of breeding and success will be achieved by those who master and utilize this knowledge and do not lose sight of the pedigree's best proof, the makeup of the animal itself.

The new breeder attaches too much importance to pedigree, as it often blinds him to the necessity of going behind the pedigree for a study of the merits of the individual. Pedigrees merely trace the parentage of an animal and do not tell the merits of the ancestry. They have no value beyond tracing the parentage of the animal. It is up to the buyer or breeder to trace out the merit of the ancestry as best he can. With all pedigrees there should be records of dairy performance.

It is true that in the dairy breeds we now have the advanced registry that gives the production record of the registered animals. This record should contain a full record of the amount of food eaten during the time the record was made. Common animals would often put to shame some of the advanced registry records, if the item of food consumed was taken into account. The time has come when it is up to the breeder of dairy cattle to make pedigrees mean more than they do now.

Inbreeding is what its name would signify, while line breeding is simply mating animals of the same line of breeding, but not having the same immediate ancestors, but those that have been bred with the same general object in view. It is not necessary that they be bred in the same herd, but they should possess a similarity of type, blood lines and characteristics. This is the surest method of obtaining results in maintaining uniformity of type in a herd.

Line breeding is the closest we can come to in-and-in breeding without being in danger of impairing the size, vigor and productive capacity of the cattle. Some of the most famous dairy performers are closely inbred, but the great trouble with close in-and-in breeding is the fact that defects and undesirable qualities appearing in the sire and dam, or in their remote ancestors, will be more marked, thus a larger number of animals must be discarded from the herd than is the case where line breeding is practiced. There is seldom, if ever, an animal that does not possess some undesirable points that its owner recognizes. There is no surer way to perpetuate these points than by close in-and-in breeding. Types must be maintained, but very few herds have been greatly improved by too close inbreeding for many generations. It requires less skill and success, is far more certain to blend blood by line breeding than by outcrossing and concentrating it by uniting various families of a breed. It requires years of systematic selection and breeding to sift out the good qualities of the many families of a breed and organizing them into a single family that has a fixed type and prepotency. Breeders who attempt to multiply variations (outside of certain families) cannot succeed in establish-

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WE will make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will *make you independent.*

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Rich Canadian land for from $11 to $30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

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The $2,000 loan will help you in erecting your buildings, and you are given twenty years in which to fully repay this loan. You pay only the banking interest of 6 per cent.

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The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle, sheep and hogs up to the value of $1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

This Great Offer Based on Good Land

Finest land on earth for grain growing, cattle, hog, sheep and horse raising, dairying, poultry, vegetables and general mixed farming, irrigated lands for intensive farming—non-irrigated lands with ample rainfall for mixed and grain farming. These lands are on or near established lines of railway, near established towns.

Ask for our handsome illustrated books on Manitoba, Saskatchewan and Alberta—mention the one you wish. Also maps with full information *free.* Write today.

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FOR SALE—Town lots in all growing towns—Ask for information concerning Industrial and Business openings in all towns.

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Deep, rich soil, and at very low prices. It will pay you to investigate.

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ing prepotency and productive capacity in their herds.

Good feeding is an integral part of success in breeding dairy cattle. Heredity is a peculiar force. We can use it to do some things, we can head it off to prevent it doing other things we do not want, and frequently it does things that no one can account for. Much that appeals to the eye is caused by what goes in at the mouth. Good breeders who have made a mark have been good feeders. Feed is not all, for there are many cows that cannot return a profit under any system of feeding. It is no more possible to get a large milk yield from cows of low vigor and capacity to produce milk than it would be to get great speed from a Belgian or Clydesdale horse by heavy feeding. No dairy farmer should feed unprofitable cows. But such cows are to be found as well in the registered herds of the country as among the grades and scrubs, although perhaps in small proportions. It is the writer's opinion that food has been as important as blood in the development of the leading dairy breeds.

Some divergence of opinion prevails in relation to the time the heifers should be bred for their first calf. It is held by many well-known breeders that the milk-producing tendencies should be trained before the fattening tendencies are beginning to be brought into play. The time for mating is so placed that the heifer will drop her first calf at about two years of age. Obviously, the time must depend somewhat upon the development secured by good care and feeding. The heifer that is compelled to take upon herself the burdens of maternity at two years of age requires a liberal system of feeding to overcome the tendency to being stunted. Breeding is not a fixed science, and in saying this I have not overlooked the Mendel law that assumes in part that breeding may be conducted along mathematical lines. Whatever laws we may pursue in breeding, it will be necessary to breed from the best and conduct a rigid system of selection and mating. Then, after we have attained a high average, it should be our aim to hold the animals in good health by the aid of well-lighted and well-ventilated barns. A sanitary and comfortable stable is essential in uplifting and holding the level of a high-producing dairy herd.

W. M. Kelly.

MONTANA LANDS

ONE of the finest tracts of lands in Montana, located in the famous Shields River Valley, the locality that won so many prizes at the land show. ...000 acres in this ranch and can sell in small farms ...sell the entire tract at a great bargain. Beautiful prairie land. Four large tractors now at work on this land.

SOUTHERN MINNESOTA LAND BARGAINS.

I HAVE a finely improved farm of 280 acres, two miles from good town, only 18 miles north of Iowa line, at $85.00 per acre. $2,500 cash will handle this fine farm—and it certainly is a fine one. Also have a fine farm of 320 acres at $70 per acre, and one of 400 acres at $75.00 per acre. Any one of these are worthy of your consideration.

11 sections of selected prairie land in Lincoln county, Colorado, at $9.50 per acre. This tract will make a fine colonization proposition.

18 sections in Billings county, North Dakota, in a very fine stock ranch with good buildings. Northern Pacific Railroad runs through the land. Will sell at $5.00 per acre. Small cash payment. Balance to suit at 6%. The coal alone on this land is worth many times more than the sale price of ranch.

In Wisconsin I have some very fine cut-over lands that are suitable for dairying. Finest water in the world. Greatest tame grass country in the United States. Lands are near markets and will sell at $7.50 to $10.00 per acre, upon your own terms. A small cash payment will secure you one of these tracts. Write for information concerning any locality you may be interested in. **Geo. R. Slocum,** 601 Pioneer Building, St. Paul, Minnesota.

CLOSING-OUT SALE

IN order to close up my real estate business I am offering for sale a number of choice farms from 160 to 320 acres in Redwood county, Minnesota, where **CORN IS KING.** 312 acres two miles from Morgan, a good set of buildings and farm tiled out. Price $75 per acre on easy terms.

160 acres without any buildings but practically all under cultivation 3 miles from Morgan. Price $60 per acre. These are only two of many good farms that I have for sale where the soil is from 4 to 8 feet deep over a good clay subsoil. Write me for further information; Address

J. C. JACKSON, MORGAN, MINN.

2 UNION County, Iowa, 80 acre farms for sale at $125 each; good 7-room houses, good barn, granary, well, wind mill and other outbuildings; one 5 miles from Creston, the county seat; one 3 miles west of Shannon City.

160 acres S. E. of Redfield, 2½ miles in Dallas Co. House, barn, granary and well with windmill. Improvements run down. This is a snap, $65. A good stock farm for some one.

200 acres, Wayne Co., 2½ miles from a new town on C. & R. I. extension Des Moines to Allerton, near the Lucas county line, south of Charlton, at $90 a. Any of the above farms on any reasonable terms. **E. E. Girton,** 605 Crocker Bldg., Des Moines, Ia.

ALFALFA LANDS for SALE

MICHIGAN hardwood cut over lands, some improved, most productive virgin soil out of doors, three bumper crops alfalfa per year, excellent for all grains and grasses and fruit. Terms and prices easy. Write

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MINNESOTA has a home for you. Good land at low prices. Literature giving information about soil, climate, price of land, etc., sent free on application to H. J. Maxfield, Commissioner of Immigration, Room 208, State Capitol, St. Paul, Minn.

CENTRAL MISSOURI. Write for list of corn, wheat, clover and blue grass farms, described and priced, that will prove profitable and satisfactory for homes. Mild, healthful climate. Hamilton & Crenshaw, Box 3, Fulton, Missouri.

OUCH! HOW IT PULLS

to pay the rent! Why not end it now? I'll help you. Write Land Commissioner D. & I. R. R. R. 116 Wolvin Building, Duluth, Minnesota.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

Iowa Lands For Sale in Howard county. $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

ADDITIONAL SALE REPORTS.

The North & Robinson Co. Horse Sale.

The sale of Percheron, Belgian and Shire horses made by the North & Robinson Co., Grand Island, Neb., on March 20th and 21st, was one of the very best sales made this year anywhere and clearly indicates that really good horses are in demand and that buyers have a vast amount of confidence in C. M. North and W. C. Robinson. The nicest, cleanest conducted sale that the writer has attended in a long time was made. Every horse put up by the North & Robinson Co. was sold and absolutely without reserve or protection of any kind. One horse consigned by a neighbor stallioneer was withdrawn after a few bids had been placed on him. The horse would have sold well, however, had not the owner used poor judgment in placing a reserve bid on him. On the night of March 20th a meeting was called of the Nebraska Pure-Bred Horse Breeders' Association and a banquet was served at the Palmer Hotel. At this meeting various means were discussd concerning doing away with some adverse legislation which the Nebraska horsemen and farmers have been laboring under for some time and that has been a great deal of a handicap to both the owners and breeders of pure-bred horses and market horses as well. There is a stallion law in Nebraska today that is probably the most drastic one in the world and which has already worked untold hardship on the horse-breeding industry of that great state. The laws regulating the shipping of market horses into Iowa, Minnesota and South Dakota are likewise highly discriminating and so drastic that shipments to those states have practically ceased. Nebraska horsemen must have relief from some of these laws and that reasonably soon. Nebraska is one of the greatest horse-growing states in America and is naturally endowed with many advantages for the production of high-class stuff. To have produced most of the offering sold by North & Robinson Co. would be credit enough for any state, for this was one of the grandest lots of horses ever sold in the West. What Nebraska horsemen need is encouragement, and not prohibitive legislation. Such horsemen as Mr. North and Mr. Robinson are entitled to special honor and credit for the manner in which they have stayed with their high ideals and the writer is pleased to know that the buying public appreciated their horses. Col. Z. S. Branson did the selling and made one of the best sales of his time. This gentleman understands the principle of salesmanship as but few men, and is without question one of the foremost of his class today. Everything selling for $300 or over is listed:

PERCHERON MARES.

Victoria, foaled 1904; E. L. Culver, King City, Mo.	$ 790
Iolabell, foaled 1906; W. H. Kerr, Bennington, Neb.	830
Revillo, foaled 1905; C. R. Bingaman, Yuma, Colo.	870
Delora, foaled 1908; C. H. Zachry, Merna, Neb.	850
Bonavita, foaled 1908; C. H. Zachry	1,560
Hannah, foaled 1907; B. F. Newlan, Palmer, Neb.	450
Keota Trilby, foaled 1905; Elmer S. King, Ord, Neb.	650
Dorus, foaled 1905; Jno. McFarland, Fairfield, Neb.	335
Lady Delphine, foaled 1908; Frank Heller, Kemplar, Neb.	340
Sadie, foaled 1907; J. E. Zigler, Jarvis, Ore.	400
Harty, foaled 1905; G. T. Elliott, Aberdeen, S. D.	445
Girafe, foaled 1906; J. E. Zigler	360
Albanie, foaled 1904; J. E. Zigler	395

PERCHERON STALLIONS.

Adelbert, foaled July, 1910; V. J. Zikmund, Ord, Neb.	1,310
Diamond, foaled July, 1908; J. E. Zigler	770
Larned, foaled 1910; S. Meek, Carleton, Neb.	800
Hamburg, foaled 1908; A. B. Johnson, Dean, Colo.	670
Panjim, foaled 1909; J. H. Morgan, Cambridge, Neb.	575
Besigue F., foaled 1910; John Druba, Stockham, Neb.	1,100
King, foaled 1910; Frank Wilson, Crab Orchard, Neb.	600
Gericot, foaled 1906; Frank Stone, Gretna, Neb.	750
Counard, foaled 1910; W. A. Meyer, Goehner, Neb.	790
San Salvador, foaled 1909; R. L. Sweet, Sargent, Neb.	695
Cahina, foaled 1911; Elmer S. King, Ord, Neb.	595
Romeo, foaled 1911; H. L. Mills, Lenora, Wyo.	600
Gioglard, foaled 1906; G. T. Elliott, Aberdeen, S. D.	600
Leslie, foaled 1909; X. A. Lambert, Haxtun, Neb.	900

SHIRE STALLIONS.

Brandon Jr., foaled 1910; Henry Beck, Litchfield, Neb.	600
Manitou, foaled 1906; L. C. Harvey, Phillips, Neb.	600
Rambler, foaled 1908; J. S. Smith, Callaway, Neb.	505
Nero 2d, foaled 1909; Geo. E. Moore, Gretna, Neb.	475

SHIRE MARES.

Keota Rachael, foaled 1908; J. E. Zigler	300
Keota Minnie, foaled 1908; A. J. Pester, Ansley, Neb	300
Keota Sarah, foaled 1907; J. E. Zigler	360
Keota Sample, foaled 1907; J. E. Zigler	360

BELGIAN STALLION.

Barnum, foaled 1906; Chas. Grammer, Palmer, Neb.	1,500

SUFFOLK STALLION.

Iowa Wonder, foaled 1900; L. M. Wood, Edgar, Neb.	320

SUMMARY.

45 head	$25,750;	av..$572
30 Percherons	19,355;	av.. 645
17 Percheron mares	9,205;	av.. 541
13 Percheron males	10,150;	av.. 780
14 Shires	4,900;	av.. 350
1 Belgian male	1,500;	av..
1 Suffolk male	320.00;	av..

A man near Springfield, Mo., bought 320 acres of rough, wild land, unimproved. Buying 1,000 head of goats he turned them loose on it, first having fenced it well with hog wire fence. There was considerable stone on the tract, and it was covered with scrubby brush, but within three years, that man's plan had worked so well that there had been enough brush destroyed by the goats, grass coming on with this change, that he was enabled to take in 100 head of cattle for pasturing, at $1 each per month. This is but another case showing the wonderful possibilities of goats in such instances.

Many of us become too enthusiastic about this poultry-raising business about this time of year, hatching off more chicks than we can properly feed and attend to. As a result, we raise many less fowls to maturity than we would if fewer were hatched off and given good care, feed and attention.

LOW FARES to CANADA

Settlers! Go to Canada via the Duluth-Ft. Frances Gateway or via St. Paul and Winnipeg, over the **Canadian Northern Railway.** Even if you have already selected your farm you have the advantage of traveling from 1550 to 2500 miles through Canada's richest farming country. Tickets on sale **every Tuesday** March 11 to April 29, 1913.

Just glance over these low rates—second-class, one-way fares for settlers. Tickets good for stop-over privileges.

ONE WAY

To / From	Chicago	Des Moines	Kansas City	Omaha	Minneapolis or St. Paul	Duluth
Dauphin, Manitoba	$24.15	$22.35	$26.94	$24.10	$16.00	$15.00
Regina, Sask	24.15	22.35	26.94	24.10	16.00	15.00
Saskatoon, Sask	24.15	22.35	26.94	24.10	16.00	15.00
Prince Albert, Sask	24.15	22.35	26.94	24.10	16.00	15.00
North Battleford, Sask	24.15	22.35	26.94	24.10	16.00	15.00
Edmonton, Alta	26.70	24.90	29.49	26.65	18.55	17.55
Kindersley, Sask	24.70	22.90	27.49	24.65	16.55	15.55

Rates from and to other points proportionally low. Tourist Car in operation every Tuesday from Duluth to Winnipeg.

"Settler's Guide" FREE Mail us a postcard or letter *at once* stating your destination. Ask for "Settler's Guide," a book filled with valuable information.

FERTILE FARMS FREE

to Homeseekers Write us to find how *you* can get a fertile 160-acre farm free in the very heart of Canada's richest grain and mixed farming region—located along or near **Canadian Northern Lines.** American farmers are getting *rich* on Canadian farms. It's *your* turn *NOW.*

Send at once for **"Homeseekers' Guide"** and **"The Bread Basket of the World,"**—telling all about free land, and specially selected lands at low prices—*free to you.*

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66 West Adams St., Chicago, Ill.

E. I. WRIGHT, Gen. Agent
4th and Jackson Sts., St. Paul, Minn.

CANADIAN NORTHERN

CANADIAN NORTHERN RAILWAY

Sell every cow that does not earn $100 every year

That's what the successful dairymen in the San Joaquin Valley, California, will tell you. There is big money in dairying on this basis.

Buy 20 acres of land, plant to alfalfa, stock with 15 cows and a side line of poultry and hogs. Stick to your business—and you should earn from $1,500 to $2,000 after the second year. You can start, with success assured, for $2,000 to $2,500.

But dairying is not all. Opportunities for fruit, gardening and general farming are everywhere.

Don't take my word for it—investigate. Ask for our book, "Dairying in California." It will point out dozens of ways of finding the truth for yourself. It's free—write at once.

C. L. Seagraves,
General Colonization Agent, A.T.&S. F.Ry.
2176 Railway Exchange, Chicago

The Pea Fed Lamb's Home

ROMEO SAN LUIS VALLEY COLORADO

I OWN a number of farms for sale at Romeo, the best district in the famous San Luis Valley, the home of the market-topping pea-fed lamb and hog, where wheat, oats, barley and other farm products are produced abundantly. Good market. Sure water supply. Good church and school accommodations. Country well established and growing. Farmers prosperous and contented. Land improved and ready to be occupied. Small cash payment—long time on balance.

Zeph. Chas. Felt, - Romeo, Colorado.

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Buy Farm Land at $10 an acre up along Southern Ry., M. & O. R. R. and Ga. So. and Fla. Ry. Values rapidly advancing. Plenty of rain—no blizzards. Growing cities demand more farm produce. Beef, poultry and dairying pay handsomely. Big profit in apples, truck, alfalfa, corn, cotton. Great industrial openings in all parts of the South. "Southern Field" magazine, land lists, and state booklets—Free.

M. V. RICHARDS, L. & I. Agt., Room 50 Washington, D.C.

Landology tells you about Good Farm Lands **FREE**

If for a home or as an investment you are thinking of buying good farm land, we will send you our Valuable Monthly Magazine **Landology** for three months **FREE.**

To get facts about the land situation and to learn where the great opportunities are, simply write me a letter, marking it "Personal" and say "*Mail me LANDOLOGY for three months FREE.*"

Address: **L. M. SKINNER, Gen. Mgr.**
Skidmore Land Co., 233 Hall Ave., Marinette, Wis.

E. Myers, President, E. Myers Lye Company

Best Spray Results At Cheaper Cost

Orchardists and vegetable growers who have experimented with Bordeaux Mixture know that it costs them from 40c to 66c for 50 gallons when arsenate of lead is used in the mixture. That makes a season's spraying a more expensive proposition than it need be.

Here is a better and **much cheaper** way: Dissolve

Merry War Powdered Lye

in the proportion of one can to 15 gallons of water—50 gallons of spray mixture thus costing **only 33½c.** If water is very hard use a little less than 15 gallons to each can. **Cut out and save these directions.**

It is **more effective** than Bordeaux Mixture or any other commercial spray, is **easier to prepare** and, unlike other spray mixtures, it makes such a perfect solution that no agitator is needed to get the full benefit. It is sure death to all destructive fungus growths like bitter-rot, scab, blotch and leaf-spot and also insect pests like coddling moth and San Jose Scale. Kills eggs on tender leaves and twigs but **does not injure buds or foliage.** Equally effective in the garden for destroying insects that infest vegetables and melon vines. To destroy Borers use one can to 10 or 12 gallons of water. **The drippings act as fertilizer, enriching the soil and increasing the yield.**

Try It Today You know the value of intelligent spraying. Now try the MERRY WAR POWDERED LYE way and prove for yourself, that it produces **better results at much less cost** than ordinary spraying. **There are no substitutes.**

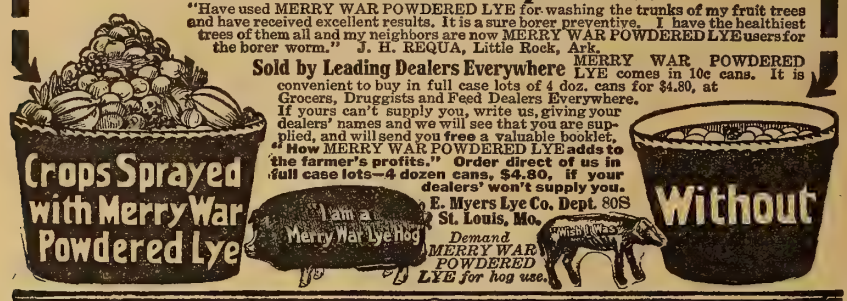
Here's One Man's Experience

"Have used MERRY WAR POWDERED LYE for washing the trunks of my fruit trees and have received excellent results. It is a sure borer preventive. I have the healthiest trees of them all and my neighbors are now MERRY WAR POWDERED LYE users for the borer worm." J. H. REQUA, Little Rock, Ark.

Sold by Leading Dealers Everywhere MERRY WAR POWDERED LYE comes in 10c cans. It is convenient to buy in full case lots of 4 doz. cans for $4.80, at Grocers, Druggists and Feed Dealers Everywhere.

If yours can't supply you, write us, giving your dealers' names and we will see that you are supplied, and will send you **free** a valuable booklet, "How MERRY WAR POWDERED LYE adds to the farmer's profits." **Order direct of us in full case lots—4 dozen cans, $4.80, if your dealers' won't supply you.**

E. Myers Lye Co. Dept. 80S St. Louis, Mo.



DON'T SOW ALFALFA SEED CLOVER SEED

OR ANY OTHER LEGUME SEED WITHOUT

"NITRAGIN"

THE GREAT NOBBE-HILTNER SEED INOCULATOR

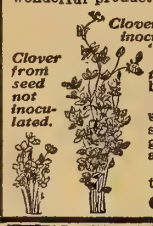
Don't sow Alfalfa, Clover, Soy Beans, Vetch or any other legume without "NITRAGIN" the Nobbe-Hiltner seed inoculator, which is endorsed the world over. No matter how good a stand you have been getting of Clover, Alfalfa or other legumes you can make it better, get it quicker, make a bigger crop and make bigger crops that follow *by using "Nitragin" inoculation.*

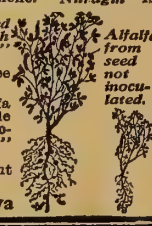
Many people think because they don't get a catch of Clover or Alfalfa it is due to climatic conditions, the soil or the seed, when as a matter of fact nine times out of ten it is lack of proper inoculation. On the other hand, many people who get a good stand are satisfied when they could just as well increase and often double their crops with *"Nitragin"* inoculation.

If you really knew what *"Nitragin"* would do for you in the way of extra crops that you otherwise could not get you would send for it as quick as you would chase a man who had stolen your pocket book.

"Nitragin" insures bigger crops and more $cash money$ for you this year

Let us tell you more about it. Don't lose any time. You can't afford at present prices of land, seed and labor to take a chance putting in any legumes *without proper inoculation.* Let us send you full particulars about this wonderful product of which last year over one million acres were sold in Germany alone. *"Nitragin"* is put up especially for whatever legume seed you will want to treat, and while other cultures may have been offered you, yet *"Nitragin" is the only inoculating material that is put up in a way that insures its being carried to you fresh,* that has a positive guarantee back of it and instructions that are simple to follow.





Notice the pictures from actual photographs of Clover and Alfalfa used without *"Nitragin"* and with *"Nitragin."* These tell the whole story. We will be glad to send full information about *"Nitragin"* together with *hundreds of letters from people who have used "Nitragin"* and give it their universal recommendation.

Write us *naming the legume crop you are interested in.*—Don't put this off. Write today.

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You can Easily Blow Smoke through

That's how porous they are. That's how easy it is for air to circulate through them. And they absorb moisture like a blotter. It goes right through to the outer surface and quickly evaporates.

Ventiplex Pads

Keep the horse's shoulders and neck in good pulling condition. Prevent all sores, galls, etc., resulting from poor fitting collars. Ventiplex Pads are made of our patent Ventiplex fabric. It's soft, cool and comfortable on the horse and easily washed when soiled. Ask your dealer to show you the Ventiplex Pad. If he hasn't them in stock, write us.

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30 DAYS FREE TRIAL

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NO COSTLY PATENT FLUID

These are true pictures of hogs having a good time with the Hog Joy machine. They scramble for place around it; they rub up and down revolving the roller; thick film of oil on roller is carried to affected parts of hogs and kills the vermin.

THE HOG-JOY Saves the cost and bother of frequent dipping which is often dangerous to hogs.

It is *strongly built* of cast iron; unbreakable; can't wear out; economical in operation: doesn't waste a drop of fluid like other machines do. Shipped ready to set up with 2 gallons of oil.

No costly fluid needed—just crude oil or engine oil. But can use any patented fluid if you wish.

Let your hogs try the machine 30 days—free of cost. Your money back if you are not satisfied. Price $10; send money order, check, or cash at our risk. *Reference:* Any bank in Springfield, Ill.

Descriptive Literature Free.

THE HOG-JOY CO.,
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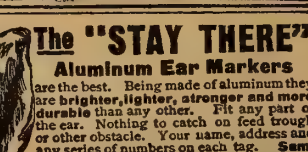

12 Handy Tools in 1

Automatic Combination Tool lifts or pulls 3 tons, is a wire stretcher and splicer, post and stump puller, vise, clamp, wrench, cider press, etc. Patented automatic features make it work *easier* and *quicker.* Saves cost of eleven tools. *10 days FREE trial. State and County Agents Wanted.* Write today for booklet and exclusive territory.

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The "STAY THERE" Aluminum Ear Markers

are the best. Being made of aluminum they are **brighter, lighter, stronger and more durable** than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. **Sample tag,** catalogue and prices **mailed free.** Ask for them. Address

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

LAMENESS.

(1) We have a two-year-old mare that became lame last June first in the hind legs and then in the right fore leg; now it is in the left fore leg. At times she is hardly able to work and cannot put her head down. Sometimes she cannot get up alone. This mare weighs 1,455 pounds and is two years old. (2) We also have another mare that we have been doctoring all summer. Her teeth were filed last spring and shortly after she became stiff necked and will go in a circle for hours at a time. She seems to eat well. This mare is fourteen years old. She hangs her head to the left side and that is the way she turns when she walks.

(1) The symptoms indicate rheumatism for which give one-half an ounce of salicylate of soda in feed twice a day and increase to three doses a day if found necessary. Bathe affected parts with alchohol twice daily, then wrap with cotton batting and bandage. (2) The brain seems to be affected from pressure by a clot of blood or collection of pus or serum. Chances of recovery are poor. Dissolve one dram of iodide of potash in her drinking water once daily for five consecutive days a week for two or three weeks.

SORES.

Have a gray three-year-old western mare that has four sores the size of a quarter about five inches apart running a little in front of the flank from one flank to the other. One runs a little and they are raw and hard. First noticed them about two weeks ago. Have done nothing for them.

The sores may develop into incurable melanotic tumors, peculiar to gray and white horses. Without examination we are unable to say what will be the outcome of the case. Each other day paint sores with tincture of iodine and once daily apply oxide of zinc ointment.

KNUCKLING.

Have a year-old colt that is healthy and growing, but he has what I call knuckle at his hind pastern joints. When he puts his foot flat on the ground his joints are all right, but when he lifts it up the joint seems to move out of place with a snapping sound. Can I do anything to cure this or will he outgrow it?

Hand rub the tendons and joints twice daily, then bandage and put on brace and ankle boot which can be bought from or made by the harness maker. Keep the colt off board floors. Make him run out daily.

LICE.

Please advise me what is the best way to rid horses and colts of lice. Have heard that tobacco water was good, and also crude oil.

Frequent use of a solution of coal-tar dip, made according to directions of the manufacturer will destroy lice, or use a decoction of four ounces of Stavesacre (larkspur) seeds to a gallon of water. Steep the seeds in boiling water and keep the vessel covered, then strain and use.

WOUND.

A five-year-old brown mare got away while hitched to a buggy about there months ago and walked a railroad bridge with the buggy, falling through several times and skinning her legs up pretty badly. She bruised and cut her left front leg between the ankle and knee until it looked like it had bursted open for about eight or ten inches on the front side of her leg, a little to the inside. There is a big ridge on the front side of the leg beside the sore and her whole leg between the ankle and knee is swollen up and hard. The sore is about well, but there will be a small place where the hair won't grow. I used air-slaked lime on the sore. What can I get that will grow hair on that place and what will reduce the swelling?

Hair cannot be made to grow upon a place where the hair roots have been killed. Hand rub the leg three times a day, then wrap it with cotton batting and put on a bandage. If swelling does not subside, rub in some 10 per cent iodine petrogen once daily. Horse should be exercised daily.

INFECTED EYES.

Some of our Shropshire lambs have been going blind at the age of one to eight days, some in one eye and some in both. At first the tears flow and the eye matters some, and sometimes the eye looks as if it had been pricked. They have a good, warm, dry barn and yard and the ewes are in good flesh. The ewes and ram all have good

Makes Lame Horses Sound

Cures All Kinds of Lameness, Quickly, Positively, Permanently.

Mack's $1,000 Spavin Remedy is absolutely guaranteed to cure Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boil, Sprung Knee, Lacerated and Ruptured Tendons, Sweeny and all other forms of lameness affecting a horse, or your

money back in a jiffy. It's a powerful remedy that goes right to the bottom of the trouble and cures the lameness in just a few days, and the animal may be worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair.

Ask your druggist for Mack's $1,000 Spavin Remedy—if he cannot supply you, write direct to us. Ask for our valuable Free Book, "Horse Sense" No. 8.

If you are not positive as to the cause of your horse's lameness, mark on horse above where lameness occurs and tell us how it affects his gait, also tell age of animal. Our graduate veterinarian will diagnose the trouble and tell you how to cure it. This service is free.

McKallor Drug Co., Binghamton, N. Y.

Cures While Horse Works

If your horse has sore shoulders or galls you don't have to buy medicine or send for a veterinary to cure him—all that you need to do is to see that when he works he wears

The Lankford HUMANE HORSE COLLAR

$1.25

This collar is well built—stuffed with medicated cotton throughout; remains soft and pliable until worn out, and, if fitted properly, is guaranteed to cure sore shoulders and galls. Can be adjusted to fit any shape neck. Light and cool, easy to put on and take off. The best collars to use for colts or horses just starting to work. Will not sweeny the horse.

FREE Send for our Memorandum Account Book—keep a record of the things you're apt to forget. Sent free on request. Write for it—also particulars regarding Lankford Cotton Filled Horse Collars. Prices $1.25 up.

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A Great Horse Story

KATE and QUEEN

By Prof. Jesse Beery

Surpasses the famous "Black Beauty" "Kate" a victim of poor handling is vividly contrasted with "Queen" who was more fortunate. You sympathize with one—rejoice with the other.

Prof. Beery has woven into this intensely interesting story, many valuable suggestions for handling horses—a result of a lifetime's experience. Thousands praise it. Sells for 50c, but a limited number only will be sent for the names and addresses of 5 horse owners and 10c to cover postage and packing.

FREE With each book we also send FREE a beautiful colored picture of Queen—oil painting effect—suitable for framing. Send today.

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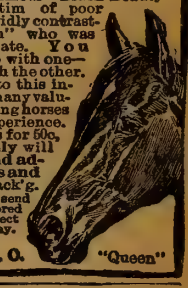
"Queen"

No More Lousy Hogs

THE O. H. C. HOG OILER

uses Crude Oil, the cheapest and best Remedy. The hogs do the work. No waste of oil. Works in hot or cold weather. Endorsed by leading hog breeders. Every Post guaranteed. It's the cheapest hog insurance you can get.

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JUST A LITTLE PILL
●● THIS SIZE ●●

placed under the skin by a single thrust of the instrument . . . .

No Dose to Measure.
No Liquid to Spill.
No String to Rot.

SIMPLEST, SAFEST, SUREST, QUICKEST WAY TO VACCINATE CATTLE AGAINST
BLACKLEG

Purchasers of 100 doses get an Injector FREE

May be procured from your druggist or veterinarian.

WRITE FOR CIRCULARS

PARKE, DAVIS & CO.
DEPARTMENT OF ANIMAL INDUSTRY
DETROIT, - MICHIGAN

He Feels Better With a Hair Cut

just the same as you do. How would you like to still wear your winter coat when spring work begins! If you want your horses to keep well, last longer and give you better service in every way take off the heavy coat that holds the wet sweat and dirt. Don't buy anything but

The Stewart Ball Bearing Clipping Machine

the only machine that will clip horses, cows and mules without any change whatever. Has all file hard cut steel gears, enclosed safe from dust and dirt and running in oil. Has 6 feet of new style, light, easy running flexible shaft and the Stewart single tension clipping head, highest grade. Clips easier and faster than any other and lasts longer. Every machine fully guaranteed. Get one from your dealer or send $2 to us and we will ship C. O. D. for balance. PRICE $7.50

GET ALL HIS WOOL

You lose $1 on every six sheep by shearing the old way. You know how many you've got. Figure out how much more money for you if you get more and a longer, better quality of wool, that will bring a higher price. Use a

Stewart No. 9 Ball Bearing Shearing Machine

It's the most perfect hand operated shearing machine ever divised. Has ball bearings in every part where friction or wear occurs. Has a ball bearing shearing head of the latest improved Stewart pattern. Comes complete, including 4 combs and 4 cutters of the celebrated Stewart quality at..... PRICE $11.50

Get one from your dealer, or send $2.00 and we will ship C. O. D. for balance.

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Save Work, Time, Money

By using our low down steel wheel wagon

Electric Handy Wagons

saves high lifting, lighten draft, don't rut roads. Spokes don't loosen—wheels don't dry out or rot. Write for free book on Wagons and Wheels.

Electric Wheel Co., 58 Elm Street, Quincy, Ill.

strong eyes and are fed all the silage and alfalfa they will eat.

Wash the eyes at birth with a 10 per cent solution of boric acid, applied on clean swabs of absorbent cotton. Repeat the treatment once a day for a week, or until period of danger is passed. If this does not suffice put two drops of 1 per cent solution of nitrate of silver into each eye at birth. Change the ewes that are to lamb into an entirely new place where sheep have not been kept. The disease probably is contagious ophthalmia.

ABORTION.

A mare which I had bought at a sale aborted the other morning and I have since been told that she had once before. Would it be safe to breed her again and is this disease contagious? I cleaned up and disinfected the barn and stalls. Is it safe to keep her in the same pasture and barn with other mares?

If the abortion was due to germs it may be spread by this mare to other pregnant mares. There is no way of telling what was the cause, but the safe course will be to keep her away from the other mares and not to breed her before fall. Meanwhile, for a few weeks, syringe out her vagina two or three times a week with a gallon or two of lukewarm 1 per cent solution of coal-tar disinfectant.

COLIC.

Have a mare that gets indigestion and I was advised by a veterinarian to get a hypodermic syringe and use one-grain tablets of arecoline hydrobromide dissolved in water to be injected in neck to make bowels move. I tried it on her and it worked fine. Since another veterinarian tells me it is dangerous to use and causes abortion. He says to inject one-half-grain dose of pilocarpine one or two times till horse slobbers freely and then inject one-half grain of arecoline hydrobromide and it would be much safer, though it is dangerous even then. Please tell me which is right and any other information you can.

Such drugs should not be used at all by a layman. They are rightly and usefully employed by a trained veterinarian who knows how they act, when they are indicated and what doses to employ. For use by an owner we would prefer to prescribe a pint of raw linseed oil containing two ounces of turpentine and half to one ounce of laudanum; but turpentine is not quite safe for a pregnant mare.

BLIND TEATS.

I have a cow that gives milk out of just two of her teats. It is her first calf and I would like to know if you have any remedy for it. She will give about one small stream when I first commence to milk her, then I don't get any more.

The case is hopeless and the cow should be sold for slaughter just as soon as milk from the two quarters fails to pay for her keep. Meanwhile rub the affected quarters twice daily with camphorated oil.

SCIRRHUS CORD.

My pigs are troubled with a growth which begins at the end of the cord right after castrating and grows very fast. I have tried cutting them out and find it successful in a small per cent, but it is more or less apt to cause a rupture. I find matter or bloody matter inside of all the growths. Can you give me any information on this or cure?

These growths are easily prevented by making large incisions in the scrotum at castrating time and taking care to pull the cord well down and scrape it through far above the testicle. Almost the entire cord is removed in this way and no end is left on which a tumor can form. The tumors every time are due to improper castration. The operator should take lessons from some competent castrator. When a tumor forms it has to be dissected free from attachments to the walls of the scrotum and the cord is then severed above the tumor. Hogs do not well withstand the shock of such operations.

ITCHING SKIN.

I bought a black mare last spring five years old with a colt seven days old. She seemed all right all summer, and I did not work her until late in the fall, when I weaned the colt and started to work her. Since then she seems to itch. She rubs her throat and breast and tail. She seems almost wild with that itching. I looked for lice, but cannot find any. Where she rubs the hair will get white like scurf and by her tail scales come off where the crupper wears. I curry her every day. I rubbed her over with kerosene and it seemed to get a little better, but as I did not know whether or not this would be good for her I did not put any more on. Being told to put on salty grease I tried that once, but was afraid to put so much stuff on in cold weather. I feed oats, corn, straw and wild hay, and a bran mash with sage and ginger once in awhile.

Stop feeding bran mashes and reduce other feed. See that she works or takes abundant exercise every day. Clip her as soon as state of weather will allow, then wash itching places with a 1-100 solution of coal tar dip. Meanwhile rub root of tail with a mixture of equal parts of kerosene and machine oil and repeat the application as often as found necessary. The dip solution may be used right along on itching parts of body. Make sure that chicken lice are not causing the irritation.

SCOURS.

A calf about two to three weeks old was noticed scouring and would not nurse at all. It would try to nurse, but seemed as though it couldn't. I have had two calves ailing in this manner. They chew their cud and slobber at the mouth and in about three days they will get so they can nurse a little and soon recover fully. They have been kept in the barn, well bedded and clean, and turned out whenever the weather permits. As soon as I noticed them ailing I gave them Epsom salts, castor oil and flaxseed tea with a little stimulant and they get along as described above. I had a five-months-old calf troubled in this same way late last fall and when he recovered he weaned himself.

In such cases always make a careful examination of the mouth. In some we have found bedding blocking the mouth and preventing sucking or perfect swallowing. Such cases are common where planing mill shavings are used as bedding and care has to be taken to keep foals or calves from getting such bedding "balled up" in their mouths. In many instances we find an ulcerated condition of the gums, tongue or throat in your calves. This used to be called "diphtheretic sore throat," but now is known as "necrobacillosis," the infection being due to the bacillus necrophorus. Scrape each ulcer clean; then paint with tincture of iodine, or very lightly cauterize with lunar caustic pencil and afterward swab daily with 2 per cent solution of permanganate of potash. A strong solution of alum or borax also is useful for swabbing in such cases. Isolate affected calves. Disinfect and whitewash stable.

SUSPICIOUS CASE.

I have a young mare that is two years old. She had a bunch on her right side and it bursted and then went down to her hind legs. It is there now and runs matter all the time. This mare is five years old. I would like some advice as to how to cure her.

There is reason to suspect that farcy, the skin form of glanders, may be present and you should, therefore, lose no time in having an examination made by a graduate veterinarian. We would not feel justified in giving advice in such a suspicious case.

BLOOD WORMS.

I saw in a recent issue of your paper about blood worms in horses. I have a two-year-old colt with symptoms about the same as were noted in the paper. About two weeks ago I gave him a dose of medicine and in his dropping it had several hundred worms each time his bowels moved. Since that time I have not seen any. Can he be cured, and if so, how?

If you give the powders as advised, one tablespoonful night and morning for a week, then skip a week and repeat the treatment the colt will certainly be ridded of many of the worms. Unfortunately, however, these worms injure the blood vessels of the intestines, causing aneurisms, and that condition is incurable. The mixture we advise for worms is one part each of dried sulphate of iron and sulphur and two parts of salt.

Vigorous Horses Make Farming Easy and Profitable.

ABSORBINE

TRADE MARK REG. U.S. PAT. OFF.

Prevents fatigue, stops pain and lameness, reduces swellings and inflammations, strengthens the muscles and ligaments and keeps out soreness. In short, enables you to get 100 per cent of the work there is in your horse and they will give it with a vigorous pleasure. Horses and men both can stand a large amount of hard work when their health is good. Absorbine will keep your horses healthy if used regularly as soon as any trouble develops. The horses can be worked while the treatment is going on.

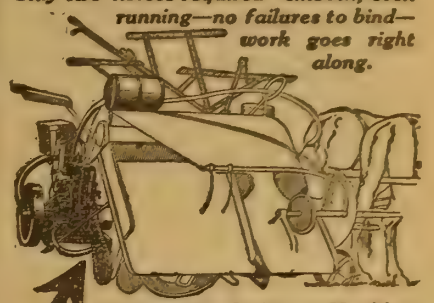
Absorbine is a mild, pleasant liniment to use—it is healing, soothing and invigorating and a positive Antiseptic and Germicide.

USE ABSORBINE to remove Bursal Enlargements, Bog Spavins, Thoroughpins, Puffs, Shoe Boils, Capped Hocks, Swollen, Painful Swellings and affections; to cure any strain or lameness; to repair strained, ruptured tendons, ligaments or muscles; to strengthen any part that needs it. You can buy Absorbine at regular dealers, price $2.00 per bottle or sent to you, express prepaid with full instructions. Write me about any case on which you would like advice. Horse book 3A free. Manufactured only by

W. F. YOUNG, P. D. F., 391 TEMPLE STREET, SPRINGFIELD, MASS.

Run Your Binder with a Cushman Engine

Only two horses required—smooth, even running—no failures to bind—work goes right along.



Horses Simply Draw Machine

The engine does all the work of operating. 4 h.p. Weight under 200 lbs. Speeds to 5 h. p. easily. Automatic throttle governor measures out fuel according to work. The original binder engine and more in use than all others combined. Detach and use for all-purpose farm power. Easy to handle, fits in anywhere. We also build 6-8 and 20 h. p. engines with same high efficiency—engines for all heavy duty. Write for free catalogue.

CUSHMAN MOTOR WORKS,
2029 N St., Lincoln, Neb.

Farm Cushman
The Original Binder Engine

THE CAPEWELL

THIS CHECKED HEAD — OUR TRADE MARK

All Horse Owners ought to take interest in horse shoeing—especially in the *nail* used. Lasting, safe, economical shoeing depends upon the *nail*.

There should be protests against nails which drive poorly and break under unusual strain. They're likely to cripple a valuable animal, waste the time of your horses and drivers, and prove most expensive.

"Capewell" nails—say the experts—are *strongest* and *safest*. Best in the world at a fair price—not the cheapest regardless of quality. They cost but a small fraction of a cent more per horse shod, so any shoer can afford them.

Look for "The Capewell" nail at your shop. Have them used on your horses. You will know "The Capewell" by the *check mark* on the head.

The CAPEWELL HORSE NAIL CO.,
Dept. A, HARTFORD, CONN., U. S. A.
Largest manufacturers of Horse Nails in the World

SLOAN'S LINIMENT

For Spavin, Curb, Splint, Shoe boil, Sweeny and Thrush

Kills Pocket Gophers, Ground Squirrels, Prairie Dogs, Kangaroo Rats, Ground Hogs, etc. Endorsed by experimental Stations. 1,400 tablets, $1.25, trial size 50c prepaid. Warranted. Booklet free. Ask your druggist or send direct

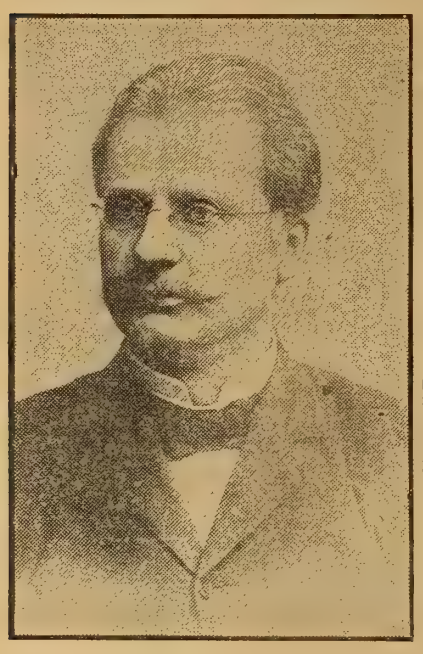
F. D. CHEMICAL CO., FT. DODGE, IOWA

BEES Raise your own honey. Send today for free catalog of Bee Supplies and sample copy of the American Bee Journal, oldest bee paper in America and indispensable to the bee-keeper. Address

DADANT & SONS, Box C, HAMILTON, ILLINOIS

DOCTOR DE LAVAL'S DEATH.

The recent death of Dr. Gustaf De Laval at Stockholm, Sweden, removes an illustrious man from the ranks of scientists. He is known to the agricultural world because of his invention of the first continuous cream separator, although in his many achievements he has been frequently compared with the great Edison. He was sixty-eight years of age at the time of his death and was still pursuing his scientific investigations. His first cream separator was exhibited in 1877



THE LATE DR. GUSTAF DE LAVAL.

and the following year there was established the De Laval Separator organization in Europe and five years later a branch was established in America.

It is said of the great inventor that he was not a good business man and his large income from the separator and other successful inventions was mainly devoted to further experimentation and in numerous instances unsuccessful exploitation. Of his many inventions none excel in their use to mankind the centrifugal cream separator, the value of which has meant millions of dollars to dairymen throughout the world.

A MEANS OF IMPROVING DAIRY COWS.

To the Editor of The Homestead:

An effective method for obtaining improved blood in the dairy herds of certain communities has been outlined by G. R. Ingalls, the Eau Claire county agricultural representative for the Wisconsin College of Agriculture. Mr. Ingalls is located in Shaw Town, in the vicinity of which few high-production dairy herds have been established. A number of the farmers had cows, but only one bull was available, and that was a Holstein, but as none of the cows were of the Holstein type and as the people in the town preferred a smaller quantity of comparatively richer milk to a larger quantity of lower-testing milk, Mr. Ingalls investigated and found the sentiment in favor of Guernsey cattle. He discovered that enough cows would probably be brought for service to pay for the expense of maintaining a bull.

An arrangement was made whereby a farmer would care for a community bull at a charge of $50 per year, and an extra charge of twenty-five cents for every service. The service fee is $2 at the time of service, and to encourage breeding Mr. Ingalls has made a standing offer of $5 for every heifer calf from the bull. Over twenty cows were served the first three months after the bull was bought, and three of these were pure breds.

Mr. Ingalls writes that a present and very important need in many a new community is to teach the settlers how to handle a valuable bull. Many are afraid he will get ugly and will then have to be sold to the butcher. As a matter of fact, many bulls are mistreated and represent a loss to the owners. Professor Humphrey, of the Wisconsin College of Agriculture, is considering favorably the advisability of printing a circular of information on this subject and of distributing it widely.

There are many farmers who do not keep a pure-bred bull, not because they do not have the money to buy one, but because they do not appreciate his value or fear that they cannot get their money back when they wish to sell. There are cases, too, where poor farmers appreciate his value, but do not have enough money to buy one. In Douglass county (Minnesota) a co-operative plan is being successfully worked out whereby bulls are bought and changed about every two years; in Stevens county (Minnesota) individual farmers are buying bulls mutually satisfactory and trading at the end of a few years. Mr. Ingalls does not believe in a scheme whereby service to a pure-bred bull is offered free.

This work of improving the dairy herd by the Eau Claire representative is a very effective one and if as successful as it appears to be should be copied by other representatives and co-operative societies. It is really the adapting of the stallion system to cows, only on a much more modest scale and has not for its ultimate end the reaping of inordinate profit for the bull owner. W. H. Freehoff.

Echoes From a Kansas Farm

BY HENRY HATCH

A large operation on borrowed capital suits many, but it does not suit us. We feel more secure when operating within our means, doing what we can do with our own help and trying to make every lick count. The moment anyone branches out and buys the time of several men to help with the work, at that moment lost motion begins; the men shirk more or less when the boss isn't about and fail to take that personal interest in the work that a man takes who does all his work with home help.

Fall plowed land always lists in fine shape, and we are not sure but what that is the best way to get it into corn, unless the soil or the natural "lay" of the field speaks against listing. Corn top planted on fall plowing always starts off in fine shape, the soil being warmer and drying quicker from an excess of moisture, but July tells the tale, and if drouth prevails then, the top planted corn on fall plowed land goes up mighty fast. Experience has proven to us that where it is listed it will stand the drouth much better.

A riding lister, like a riding plow, does rather better work than the walking tool. This is because the riding tool has more weight and holds steady in its course. We have riding plows, also a gang; but we have not done listing enough in the past to need a riding lister, and may not in the future. We bought, two years ago, a new walking lister, which does fairly good work, but it does make a fellow's legs ache who has become accustomed to all riding tools, to follow it all day, particularly when the horsepower exceeds the load. Planting after listing with a common planter suits us better than the work any planter does that is built with the lister.

There are a number of people who seem to have it in their heads that the farmer is not getting as much credit as he should get, and at a rate of interest as low as it should be. We are not so sure about this, as there are any number of farmers not more than a hundred miles from us, who operate quite extensively, who are said to be owing all the way from $10,000 to $30,000. They appear no better than the rest of us, so it would seem as if there is credit a-plenty when farmers can load up to this extent.

Too much credit is the worst thing that can happen to some folks. It causes them to lose their heads and "buy everything in sight." Such enterprise may be commendable, but often the judgment exercised is not of the best, and the ability to secure a large credit ends in a long struggle to get from beneath the load of debt.

So far there has been no heavy rainfall to pack the soil, and we hope there will be none. Last spring all the leavening done by the frost was quickly put down as solid as ever by the immense amount of water in the late March snow. Our soil lays up light and loose now.

At this time last year we were wading around in eighteen inches of snow, which, a little later, was turned into mud of about that depth. We are still better off than last year, but our early spring, as foretold by the ground hog and the early Easter, has gone glimmering. It is up to the sign believers to hunt up an entirely new set of signs to swear by.

The frequent showers are keeping the fodder in fine shape for husking and handling. Because of the steady dry fall and early winter, those who husk shocked corn by hand still have plenty of it to do, and are now finding a fine time in which to do it. The weather is warm enough so a fellow doesn't shake with seventeen kinds of chills at the work that keeps only hands busy.

Ohmstede's Short-horn Sale.

A good gathering of Short-horn cattlemen from southern Nebraska and northern Kansas were in attendance at the sale of Short-horn and Polled Durham cattle made by John Ohmstede, Guide Rock, Neb., on March 19th. A very nice offering was put up and it seemed to the writer that prices ruled too low, although Mr. Ohmstede expressed himself well pleased with the results. A very nice lot of choice young cows were put up, but the fact that they were all Short-horns and bred to a Polled Durham bull affected the sale of them materially. They being Short-horn cows, they did not appeal to the Polled Durham men, and being bred to the Polled bull made many Short-horn men hesitate. However, it should be to the everlasting credit of Mr. Ohmstede to be able to send such a choice lot of stuff through the sale ring. Col. John Brennan did the selling and those selling for $100 or more are listed:

BULLS.

Erensty, calved 1911; Chas. Amack, Wheeler, Kan. $110.00
Dick, calved June, 1911; Joe Bent, Blue Hill, Neb. 100.00
King, calved September, 1911; Ed Burr, Guide Rock, Neb. ... 112.50
Lord Byron, calved November, 1911; J. W. Crow, Red Cloud, Neb. 100.00

COWS.

Queen Rose, calved May, 1909; Garhard Ohmstede, Jr., Guide Rock, Neb. 110.00
Marey, calved June, 1910; Garhard Ohmstede, Jr. 100.00
Achmead Beauty, calved June, 1910; G. G. Denny, Guide Rock, Neb. 107.50
Carrie 1st, calved July, 1910; Chris Ohmstede, Guide Rock, Neb. 140.00
Anna Dellard, calved June, 1911; Clyde Albin, Guide Rock, Neb. 103.00

SUMMARY.

31 head .....$2,562.50; aver.....$82.75

MILK---BUTTER BEEF

Economically increased by balancing rations with OWL BRAND Cottonseed Meal. 41% Protein. Cattle require it for best results. F. W. Brode & Co., Memphis, Tenn.

$595 And It's Easily Worth $850.00

Just Think of It

A Remarkable Factory to Farm Price

Galloway's Auto Transport

Farmers, Business Men and Pleasure Seekers! Here is Galloway's latest pet—his Auto Transport—so called because it will actually go through snow and mud and transport anything or anybody—anywhere—or any time—safely, cheaply, economically—and you can buy it at a price that was never equalled in the history of the auto business before and on terms so easy that you will hardly realize you are paying for it.

It Does the Work of Three Teams

Is Built for the Hardest Wear and is a Wonderful Convenience and Money Saver

With this rig you can do more work in one-half the time than three men and three teams can do in a day. It hits the nail right on the head and it is built for the hardest wear and tear. It is guaranteed to give the best of service and satisfaction. Notice the size of the wheels, the large hubs, heavy, durable spokes and rims, axles strong and yet not too heavy, and wheels of just the happy medium—neither too high nor too low. You can put on the back seat and take your family to church or for a pleasure ride; you can haul your pigs, calves, sheep, milk, poultry, eggs and vegetables to market and be back home again before you could even reach town with a horse and wagon. Just think of the convenience of a rig of this kind. When you want something from town in a hurry you can jump into this transport and you have got it before you know it. You can go to town for your groceries, flour, feed, furniture, hardware, cement and lumber or anything you can think of and you can do it cheaper than you can drive a horse and wagon.

HOW I MAKE THE PRICE

There is only one way that I could make a price of $595 on a rig of this kind, and that is by making them in big quantities. Remember this auto transport is no toy. It is practical, durable and built of the best material that could possibly be used for the purpose intended, and will give you all the service and satisfaction any car could give you even though it cost you twice as much. Send for full description and my special introductory offer that will help you pay for the transport and make you money at the same time. Write me today and you will be mighty glad of it

WM. GALLOWAY CO., 10 Galloway Station WATERLOO, IOWA

SAVE 25 TO 50% ON HARNESS $25.00 FREIGHT PREPAID

For $25.00 we offer our Leader No. 53—1½ inch Team Harness set down at your railroad station. This harness, designed and made for durability and service is the biggest bargain we have to offer. While the price is exceptionally low for a harness of this nature, quality has not been sacrificed on that account. But, "after quality, it's the price that counts." In the harness here illustrated only the very best grade of Oak Tanned Leather has been used in its manufacture and our money-back guarantee stands behind every sale.

We issue a 100-page, completely illustrated catalog, jammed full of just such bargains as shown in the illustration.

Just drop us a card and we will send you by return mail one of these handsome books. We manufacture all our own harness in our spacious factory at Waterloo. This alone accounts for the rock bottom prices we quote—no jobber, salesmen, agents or brokers to split up the profit—just the manufacturing cost with one small profit added. This accounts for the fact that we are absolutely the largest manufacturers of harness and leather goods, selling direct from factory to user.

A comparison of quality and prices will surprise you. Write today to

WESTERN HARNESS & SUPPLY CO., 613 Main Street, WATERLOO, IOWA

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Apr. 8, Dispersion sale, Walter Roberts Estate, Atlantic, Iowa.
Apr. 16, Chas. Escher & Son, Botna, Ia.
Apr. 30, Association spring bull sale, Omaha, Neb.
May 2, Association spring bull sale, Chicago, Ill.
May 3, Association spring bull sale, East St. Louis, Ill.
May 27, P. J. Donohoe, Holbrook, Iowa.
May 29, Otto V. Battles, Maquoketa, Ia.

Short-horn Cattle.

Apr. 10, A. C. Shallenberger, Alma, Neb.
Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
Apr. 23, R. C. Firme, Hastings, Neb., and A. A. Stone, Hansen, Neb. (sale at Hastings, Neb.)
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Reese & Son, Pilger, Neb. (sale at South Omaha, Neb.)

Hereford Cattle.

Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.
Apr. 29, W. H. Bryson, Lake Fork, Ill.
May 6, Breeders' sale, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.

Holstein-Friesian Cattle.

May 1-2, T. H. Russell, Geneva, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Guernsey Cattle.

May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Percherons and Belgians.

Apr. 17, Frank S. West & Son, Wood River, Neb.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

W. A. Dickey, North Manchester, Ind., has a proposition among the other fence and gate advertisements in this week's issue which will prove interesting to our readers who are looking for a special agent's proposition on which they can make good money.

J. W. Troy, Rose Hill, Iowa, breeder of Duroc Jersey swine, wishes The Homestead to announce that he is entirely sold out of bred sows and that he could have sold many more had he had them. Mr. Troy also wishes to thank the public for their patronage in the past.

Two good young Short-horn bulls are advertised for sale by M. A. McWilliams, Wall Lake, Iowa, elsewhere in this issue. One is a yearling and the other is a nine-months-old calf and the price is $100 each if taken right away. If you want a bull you better go and see these bulls right away.

The man who is going to want a good young Scotch bull will be interested in that good Cruickshank Secret and a good Bridesmaid that H. B. Harden, Corning, Iowa, is offering for sale. He is pricing these worth the money and you had better see them at once if you are going to want a bull this spring.

In sending copy for his advertisement found elsewhere in this issue, R. E. Baldwin, breeder of Short-horn cattle, Osceola, Iowa, writes: "The thirty-six bulls I am offering are an extra good bunch. The older bulls are big, robust fellows, ready for hard service, and should all go in a bunch. These bulls are red and roan, grandsons of Imp. Cock Robin and Imp. Crescent Knight, and are of the following families: Clipper, Charity, Lancaster, Miss Ramsden, Beauty, Brawith Bud, Duchess of Gloster and Princess Royal."

J. G. Westrope, Harlan, Iowa, one of the most noted Short-horn breeders in the West, is offering some splendid Short-horn bulls for sale. Among these is the great young Scotch bull, Scottish Rex 3d, a yearling bull sired by Royal Rex 3d, that in turn was a grandson of Imp. Cock Robin. This bull is a red in color and is a Campbell Rosebud and is good enough to head any herd in this country. He is a solid red in color and an outstanding good one. He also offers several young Scotch bulls and a number of the Scotch-topped sorts. If any of our readers are going to be on the market for a Scotch or a Scotch-topped bull this spring it will pay them to go and see Mr. Westrope's bulls at once. When you write him kindly mention The Homestead.

Silver Laced Wyandotte, Barred and White Plymouth Rock, Rhode Island Red, Orpington and White Crested Black Polish stock and eggs can be furnished readers of this paper by Wm. Nelers, Cascade, Iowa, as per advertisement found in this department.

Farmers and others who are interested in the purchase of Percheron or Shire horses should not fail to get into communication with H. P. Wilkinson & Bros., Mitchellville, Iowa, whose advertisement will be found on another page of this paper. Wilkinson & Bros. make their own importations and select personally all animals which they bring over. They have at the present time a splendid lot of imported and home-bred stallions from two to five years old. These are extra good and will be sold at prices which on investigation will be found to be in keeping with the merit of the horses. The home-bred animals are from imported sires and dams and have therefore all the advantages of the imported ones. The Shire stallions are of the same ages and Wilkinson & Bros. say they are of the sort that cannot be beaten. They have also for sale a limited number of Shire mares that will weigh from 1,500 to 1,900 pounds in fair flesh. As it is their intention to visit the old country in August or September, an effort is now being made to dispose of all surplus stock so that a new start may be made when the next importation arrives. We are also advised that the firm have for sale a few Aberdeen Angus cattle of both sexes. Address all inquiries to H. P. Wilkinson, Mitchellville, Iowa.

The Regal Motor Car Company.

The country buyer of automobiles will take a good deal of interest in the big advertisement of the Regal, which appears elsewhere in this paper. One of the strong points of this car is that it is built low on the underslung plan with the frame below the axle, a system which puts the weight at the lowest possible point and keeps the center of gravity so located as to positively avoid overturning. The Regal is a rare beauty built on attractive lines with high excellence of finish and a price which makes it worth while for buyers to investigate it thoroughly. Write for particulars to the Regal Motor Car Co., 204 Piquette Ave., Detroit, Mich.

Iams' 1913 Horse Catalog.

One of the catalogs that recently came to our table that bears inspection is the 1913 horse catalog of Frank Iams, St. Paul, Neb. As usual, it is Percheron and Belgian stallions and mares and it also embodies a lot of reading matter that is particularly interesting to horsemen at the present time. It is a catalog that never fails to interest those who are engaged in the draft horse business, because it is always full of life and animation, and the artist has done well in picturing a number of the best stallions and mares that he now has in his barns. It will be remembered that Mr. Iams contested the stallion law as it now stands on the statute books in the state of Nebraska and a decision was handed down in the district court in his favor. He devotes a chapter to the law which will make interesting reading to all horsemen. When you write for this catalog kindly mention this paper.

The Butterfly Cream Separator.

The manufacturers of the Butterfly cream separator, which is advertised quite fully elsewhere in this issue, have not only put out a machine which is durable, easily operated, thoroughly attractive, effective, but one which is sold at a price which puts it within reach of every farmer and one which is sold under conditions that make it folly for any farmer not to buy it. The catalog which describes the separator is complete. It contains a series of illustrations which show every detail of construction, thorough descriptions and quotations of prices that seem to be almost too good to be true. This catalog is free. It may be obtained by writing to Albaugh Dover Co., 2262 Marshall Blvd., Chicago, Ill., if this paper is mentioned. Terms for the easy-payment plan of sale may be obtained by filling out the coupon in the advertisement and forwarding to the same address.

A Farmer's Seed House.

At La Crosse, Wis., is the center of a rich farming district where the red clover and alfalfa flourish, where the barley and oats return year in and year out bountiful yields, where field peas and seed corn furnish the dairyman abundant crops, and where forage plants, like sand vetch, Billion Dollar grass, hog clover give yields that gladden the heart of the farmer and fatten the purse. And in this district the John A. Salzer Seed Company have for years grown their famous pedigree seeds, which have found a home upon every wide-awake farm throughout the North and central West and everywhere have increased farm yields. This year the Salzer Seed Co. make a great specialty of seed oats, seed corn, seed barley, seed potatoes, field peas, sand vetch and alfalfa clover, all pedigree strains bred right up to health, quality and big yields, and their 1913 catalog, which is gladly mailed to our readers upon request, bristles with seed truths. Write them today.

Russell Sells 200 Holsteins.

May 1st and 2d and the dates for the annual offering of Holstein cattle from the Idle Hour Place herd of T. H. Russell at Geneva, Ohio, and for this event Mr. Russell has selected 200 head of the best things in his herd. Mr. Russell is a big man and he does things on a big scale, so that when the announcement is made that 200 head of Holstein cattle, all from advanced registry or heavy-milking ancestry, are to be offered at public sale our readers may know that it is no ordinary event. Mr. Russell maintains one of the largest herds of Holsteins in the country on his big farm at Geneva and the very best breeding known to the Holsteins predominates. It is not our purpose at this time to go into any details regarding this sale. That we will leave for future issues. But we do want to say that this will be the big event of the year in Holstein circles. There will be other sales, of course, but none like Mr. Russell's. He has the goods and he is not at all afraid to trust them to the consideration of the buying public. This sale will be an eye-opener. Write today for a copy of the catalog to T. H. Russell, Geneva, Ohio, mentioning this paper, and watch these columns for particulars.

Percheron Stallions.

Elsewhere in this issue L. A. Matern, Wesley, Iowa, advertises some young Percheron stallions of good quality and at prices that make them attractive. Buyers will make selections from horses with bone, substance and size here, and you can choose from yearlings up to five year olds. Write him for prices on this stuff. Address L. A. Matern, Wesley, Iowa.

Highly Recommended Potato Cutter.

Elsewhere in this issue is advertised the Winans seed potato cutter. The value of this machine to extensive potato growers is shown in the following letter from Frank Loucks, Breckenridge, Minn., who says: "I can recommend it to anyone as the best and most practical cutter on the market and anyone who raises any amount of potatoes cannot afford to be without one of them. They are worth double the price they are sold for."

Trees at Half Price.

Earl Ferris, proprietor of the Earl Ferris Nursery, at Hampton, Iowa, has an announcement in the horticultural department of this week's paper which will prove interesting to many of our readers. Concerning his selling methods Mr. Ferris says: "My catalog is my salesman. It costs me only one cent to send it to you. It clearly describes and prices my evergreens and "True-to-Name" fruit trees as well as any salesman, and leaves you to make your own selection. My customers get the saving I make in not having agents." Mr. Ferris' specialty is evergreens and he has a very attractive proposition in this week's issue. In addition he has a large stock of Delicious apple trees, Earl plums, Jones strawberries and many others. Look up his advertisement and write him, mentioning The Homestead.

Nolans' Lice Killer.

For years Nolan Bros., extensive squab raisers, Ruthven, Iowa, were bothered with lice and other vermin in their pigeon ranch. Every known remedy was tried, but none proved entirely successful. After years of investigation they perfected a remedy of their own which first became popular in their neighborhood, but the sales now are spreading all over the state. The late Peter Elierbroek, the well-known breeder of Poland China hogs, endorsed the remedy as follows: "It is great stuff and I have never found better during my thirty years of experience in raising thoroughbred hogs. I advise every hog breeder to try it and believe they will find it as good as I have. In chicken coops I have found nothing better. Its effect not only lasts for weeks, but for a great length of time."

Saunders Has Some Good Bulls for Sale.

The Short-horn man who is looking for a good bull to head his herd might do well to call on that old reliable breeder, C. A. Saunders, Manilla, Ia., and take a look at the bulls he is offering for sale. He has a number of good Scotch bulls, some of which have been prize winners. Two of these belong to his noted Gypsy Maid family and a couple belong to that noted Gardenia tribe. He also has a number of other good bulls that he is pricing

FRANK IAMS' DRAFTERS.

The man who is smashing prices on what he calls "big, nifty, classy Paris winners," in other words, "business stallions and mares." See the advertisement elsewhere in this issue.

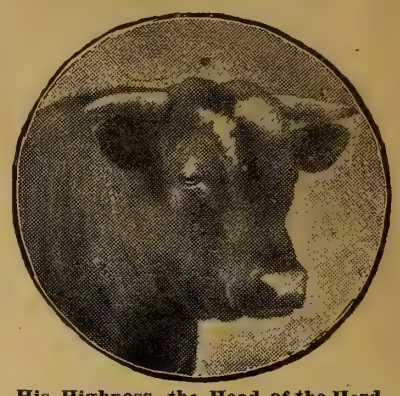
SHALLENBERGER'S GREAT SALE
SCOTCH PEDIGREE SHORT-HORNS
WILL BE HELD IN SALE PAVILION IN CITY OF
ALMA, NEB., THURSDAY, APRIL 10, 1913

His Highness, the Head of the Herd.

FORTY-FIVE carefully selected individuals make up the offering, the greater part of which are pure Scotch. The best tribes are represented, and the offering is strong in the get of noted sires. The great Victor's Roan Duke has a few daughters in the sale. Imp. Scotch Bank, and Imp. Scottish Sentinel are also the sires of choice young things in the offering. His Highness, one of the great bulls of the day, is well represented in the younger stuff and many are in calf to him. The great opportunity of the western stockmen is at this sale, if in search of high-class breeding material. Sons and daughters of famous sires and dams make up the principal part of the sale stock. We are positively offering some great herd-heading bulls, as well as choice female stock. It is a good time to buy, and this will certainly be a good place. Would like to send you a catalog and a postal mentioning The Homestead will bring it. Address.

A. C. SHALLENBERGER - ALMA, NEBRASKA

Col. F. M. Woods, Auctioneer.



His Highness, the Head of the Herd.

worth the money. Go and see Mr. Saunders at once if you are on the market for a bull. Mention The Homestead when writing him.

Iams' Drafters.

Frank Iams, St. Paul, Neb., believes that he has some draft horses worth going 2,000 miles to see. In the near future he proposes to open a barn of thirty horses and let the public inspect them for the first time. Concerning his offering he says: Ikey buyer, never mind who "is president," "Bryan or Wilson." Buy a through ticket to Frank Iams' "horse emporium," St. Paul, Neb. Walk right in, "shake hands" with the "peaches and cream" horseman and say "hello." He will meet you with a "smile that won't rub off" and treat you like a "king" and make a "horse show" for you that is worth going 2,000 miles to see. Iams' Percheron and Belgian stallions and mares are in the "pink of condition" and ready for a "quick selling" and must be sold. They are the "best ever," larger horses of quality and extra big bone and more "Paris and European prize winners" than any man in the U. S., but close money and "Iams' cash" opened the doors of the best horsemen in France and Belgium and Iams made a "big killing," bought "tops" "worth the coin," cut the melon and Iams' customers get the benefit of his "big, easy buy." Iams' thirty-one years of successful business of selling 5,444 horses, his fifty trips across the ocean make him a safe man to do business with. His stallions and mares have all been "registered," approved and inspected by governments of France, Belgium and U. S., and certificates stamped "O. K." Iams gives a certificate of health and soundness with every horse signed by a deputy state V. S. of Nebraska. "Ikey boy," Iams has opened up a new barn of thirty horses (not seen by public before). "Buzz around," sing Iams' song, "buy horses of Iams," as he is selling fancy, "sensational" "black boys" cheaper than ever, more and better horses for the money. Iams' catalog is an "eye-opener," the book of books, and has a $1,000 bargain on every page. It's "the man behind the dough" that has "competitors up in the air" over his big horses and low prices. He saved $300,000 to "stallion buyers" in 1912. That's Iams, the "square deal horseman." He is the largest individual importer and breeder of Percherons and Belgians in America. He sold 120 horses in 1912 and saved $1,000 each to his customers, and sold them a "peaches and cream" stallion that made them $1,000 in service fees. "Ikey boys," this is the "gold mine" year for you to buy and breed horses. First-class horses are high and scarce and will be high for ten years yet. Take that money out of your old "tobacco box" and buy a stallion and four mares of "Iams," the "king horseman." "Buzz around" Iams' town of barns. They are filled to the roof with sixty imported stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 80 per cent blacks (grays $200 less than blacks). Iams sells his "show horses" annually. He buys new and better ones each year. For thirty years Iams has been "buzzing" the heads of the "gold brick stallion salesmen" with better and larger stallions, forcing the breeder and importer with inferior stallions and mares to sell them on the "auction block." Iams guarantees to sell you better stallions at $1,000 and $1,400 (some higher) than are being sold to farmers' stock companies at $5,000. If you don't find this so, you get the $500 Iams hangs up. It's not because your sweetheart is the "swellest girl" that Iams tells you in his "ads" of money he will save you. He wants your business, that's why he advertises. He wants a $1,000 or $1,500 "smile" and your visit. He will make the "wheels of business" go round. Iams can place $1,500 insurance. He is an "easy man" to do business with and his horses are so good they sell themselves. You say, why can Iams sell better stallions at half the price of others? Iams buys and sells every stallion himself at his home barns. He buys stallions by "special train load;" he speaks the language, saving 20 per cent. He is not in the "stallion trust," saving you $300. He pays no "slick salesman" $1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He buys for cash. He sells stallions by "hot advertising" and having the "goods" to make every statement good. Iams will save you $1,000 or more in commissions. Iams' largest and best "Paris winners" are yet in his barns and must positively be sold. Iams' "selling clothes" fit all buyers. Write for his 1913 million-dollar horse catalog and eye-opener.

Maasdam & Wheeler's Percherons.

Maasdam & Wheeler, Fairfield, Iowa, have on hand the best lot of imported and home-bred stallions and mares ranging in age from one to five years that can be found in any stable. They have on hand about sixty head from which buyers can select. This firm have been importing, breeding and exhibiting Percherons for a number of years and have won some of the most important prizes at the leading live stock shows in this country. They have bred a large number of their prize winners and have some on hand at the present time that are good enough to win at any state fair. Their recent importation is in fine condition and they have horses with the bone, the size and general conformation that good judges admire. This firm handles their horses in an economical manner and for this reason can make prices as low on strictly good Percherons as any importer in America. They will be pleased to hear from any of our readers in need of a good stallion or mare and will be glad to show visitors around at any time. When writing mention The Homestead. See advertisement elsewhere.

Shallenberger's Great Sale of Short-horns.

The writer would like to call special attention to the sale of Short-horn cattle that will be held by Hon. A. C. Shallenberger, Alma, Neb., on April 10th. We believe that the time is opportune to engage in the cattle business, we believe that to delay will be costly, and we also believe that to start with cattle of low grade will be unnecessarily expensive. For these reasons just stated and for the further reason that many excellent cattle will be offered in this sale we especially ask that you give this sale of choice stuff your careful consideration. Mr. Shallenberger has spent many years in building up this herd, has employed careful business methods, which have included many excellent herd bulls and good female purchases. The value of his good work is hard to estimate and by many we know will not receive due appreciation, but to the man who has striven to build up a herd, to the man who has put forth earnest effort to raise the standard of the beef cattle of a community, to this man will the work of this master breeder appeal. The writer wishes that he might convey in adequate words to the new man the importance of starting right, the absolute necessity of getting the right sort of stuff to start with and the equal importance of making this start now. We are confident that the opportunity presented in this forthcoming sale of choice stuff is one of the great chances of the early part of this year to start right. The great bulls, Imp. Diamond Rex, Imp. Scotch Bank, Imp. Scottish Sentinel, the great Victor's Roan Duke and His Highness are some of the sires employed in building up this herd. Imported cows and bulls of high order have been in use at all times and it appears to the writer that such an opportunity should not be allowed to pass. Among the choice bulls that will be offered are Royal Peer by Victor's Roan Duke and out of the noted cow, Iole by Coming Star, Evening Star by Imp. Scotch Bank and out of Starlight Bess by Imp. Diamond Rex and Paymaster by Imp. Scotch Bank and out of Ashbourne Isabella by Bar None. Another is by Combination by Victor Sultan, but one of the very best of this sale and the best of the year is Star Attraction by Imp. Scotch Bank and out of Imp. Maud 44th. He is a bull of much substance and nice conformation and of beautiful blood lines. Watchword is out of the same cow, one year younger, and sired by Imp. Scottish Sentinel. Keep these bulls in mind, they are right. We will not mention the breeding of the cows in detail, but will ask that our readers send for the catalog at once, as it gives the same in detail. When writing please mention The Homestead.

Rids Hogs of Vermin.

Keeping hogs free from parasites that irritate them and cause skin diseases is more or less of a problem with all hog raisers. Everyone knows that dipping and spraying are very unsatisfactory processes. They not only involve time and labor, but are sometimes harmful to hogs, to say nothing of the money cost. One of the several machines now on the market which aim to overcome these serious objections and keep the hogs free from vermin is the O. H. C. hog oiler, advertised elsewhere in this issue. It is an iron post with automatic oil-feeding device which oils the hogs when they rub against it, and the oil means death to the vermin. It is a simple contrivance, operates automatically, uses crude oil, which is the cheapest and best fluid for the purpose, and doesn't waste any of it. All that is necessary is to set the post up in your hog lot and the hogs will do the rest.

Hanna's Offering of Short-horns.

Those who attend the sale of Short-horns from the Cottage Hill Farm of D. R. Hanna, Ravenna, Ohio, to be held at Chicago, Ill., Friday, April 4th, will in no way be disappointed. One of the best lots of Short-horns to be offered this year, and the strongest collection that has ever come from Cottage Hill, will be submitted to the appraisal of the public. Manager John Garden has selected for this sale a class of cattle that will appeal to the discriminating buyer. Many are by Villager, the stock bull at Cottage Hill, and a bull that is fast taking his place as one of the great sires of the country. Last year he had to his credit the undefeated calf herd, the undefeated young herd, the undefeated senior and junior heifer calves, an honor never before achieved by one sire. Included in the females for this offering is Village Primrose 2d, the undefeated senior heifer calf at the 1912 shows and junior champion at the International, while she has for company a cracking lot of young things, all of the best breeding, some of them by Villager, and all of breeding age not sired by Villager bred either to him or his sons, Village King and the sensational Village Denmark, a trio of the greatest sires in the country. Village Denmark was a sensation when shown as a calf, and now that he has developed into a wonderful bull it is the purpose of Manager Garden to show him the coming season, and he is an outstanding candidate for championship honors. Ten bulls are listed, six by Villager and four by Village King, and among them will be found both herd-heading and show-yard material. The value of the Villager blood is apparent to all who are observers of events in the cattle world. He is a getter of cattle of the highest class, and his sons are proving themselves as prepotent as their sire. Villager is a success, both as a sire of bulls and of heifers. His sire, Village Beau, is one of the greatest sires of show stuff in Great Britain, so that the bull can confidently be looked to to give the right kind of an account of himself. We believe it a safe prediction that the blood of Villager is bound to be one of the strongest factors in Short-horn cattle circles, and it behooves every breeder to get some of this blood in his herd. Practically every animal in this sale will either be by Villager or one of his sons or bred to them, so that Villager blood is bound to be secured, no matter what the animal purchased. Several of the cows will sell with calves at foot by Villager or one of his sons. Manager Garden has chosen the cattle for this sale with the sole purpose of giving the public a satisfactory lot. In fact, there are many cataloged that both he and Mr. Hanna are very loath to part with, but they are determined to give the buyers more than an even divide. This sale comes Friday afternoon of next week, April 4th, following the Anoka sale at Waukesha, Wis., on Wednesday, and the Sayer-Stanton sale at Chicago, Ill., Thursday afternoon and Friday forenoon, April 3d and 4th, the Hanna cattle selling the afternoon of April 4th. Practically 200 head of cattle are to be sold at these sales, so that buyers will have an excellent opportunity to secure some bargains. The final announcement of the Hanna sale appears elsewhere in this issue. There is still time to get a copy of the catalog if you have not yet secured one. Write at once to John Garden, Ravenna, Ohio, mentioning The Homestead.

The Kansas City Hereford Sale.

R. T. Thornton, 1309 E. 15th St., Kansas City, Mo., will have in the May 6th sale of Hereford cattle at Kansas City, Mo., a large number of bulls and females that should interest buyers from over a wide range of territory. There will be cattle for the breeder, the range man and the farmer looking for good strong breeding cattle. If interested write Mr. Thornton now, mentioning this paper.

Roberts' Angus Dispersion Sale.

One of the very excellent opportunities to buy Aberdeen Angus cattle this spring will be at the dispersion sale of the Walter Roberts herd at Atlantic, Iowa, on April 8th, when sixty head of well bred cattle will be offered. The death of Mr. Roberts some time ago is the reason why this herd is now put upon the market, and while it is to be regretted that it becomes necessary to disperse this herd just now, it is nevertheless going to be a splendid place to buy Angus cattle. During the past five or six years Mr. Roberts has been one of the best buyers of high class Angus in the West, and included in this sale will be many choice individuals that have topped the very best sales. There will be a most royally bred lot of females in this offering and all those old enough will be bred to Imp. Eston of Eshot, and Enchantress Trojan Erica, formerly used in the Chas. Escher herd. Those not bred to him will be bred to the old herd bull Deceiver, Botna Valley Blackcap or Botna Valley Prince. Altogether there will be twenty-six head of Blackbirds in the sale and about sixteen royally bred Ericas. Twenty-one cows in the sale will have calves at foot, and this in itself will be a good reason why it will be a splendid place to buy Angus cattle. There will be about twenty nice yearling heifers in the sale and three good imported cows, viz.: Imp. Elnora, Imp. Erebena, and Imp, Percefoam of Stenhouse. Among the choice females to be sold will be Blackcap Echo, a choicely bred Blackcap cow that topped the Chas Escher sale in South Omaha at $805. One of the best bulls in the sale will be out of this cow and also a good heifer of hers goes in. She herself is bred again to the young Blackbird bull and she will certainly be one of the good things in the sale. Another good cow is Blackbird Bess, a daughter of Imp. Earl Eric of Ballindalloch and she is safe in calf to Imp. Eston of Eshott. She is a prize winner herself and she is one of the choicest Blackbird cows in the sale. Blackbird McHenry 52d is another great cow that sells with a heifer calf at foot, as does also Enchantress 16th, an International winner. Some good bulls are also listed, among which is their old herd bull, Deceiver, that in turn was grand champion bull at Seattle, and was a winner at other well known shows. He is a good breeding bull and is all right in every way. Botna Valley Blackcap is a two-year-old and is a son of Sir Blackbird and out of Blackcap Echo, the good cow we first mentioned. Black Pier, by Black Barney is another good thick Blackbird bull, together with a few other Blackbird and Trojan Ericas that are bred well enough to head good herds. it will certainly be a splendid place to buy Angus cattle and we trust there will be a good turn out of breeders on this occasion. When writing for catalog kindly mention Iowa Homestead.

Hereford Bulls for Sale.

Elsewhere in this issue will be found the advertisement of A. Spooner & Son, Mondamin, Iowa, who are offering 100 head of good, serviceable Hereford bulls for sale. These bulls are in good shape, are of strong ages, and are strongly bred in Anxiety blood. Quite a few of these are sired by such well-known bulls as Beau Gondoline, Rex Onward 4th, Dandy Andrew and Bright Master. If you are on the market for a Hereford bull, either one or

SPECIAL SALE OF PERCHERON and BELGIAN STALLIONS
FOR NEXT THIRTY DAYS

New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More to arrive in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in U. S.

HOLBERT HORSE IMPORTING COMPANY.

A. B. HOLBERT, Proprietor — GREELEY, IOWA.

a car load, we will by all means say to you to go and see these at once. They will also sell a car load of cows and heifers if you are on the market for females. When writing the above firm kindly mention The Homestead. The best thing, however, is to go and see these cattle right away.

Shire Stallion for Exchange.

Elsewhere in this issue will be found the advertisement of Perry O. Brown, Lamoni, Iowa, who offers for sale or exchange for Short-horn cattle a good six-year-old Shire stallion. He is a sure foal getter, a good breeder and is all right in every way. Mr. Brown will sell him outright or he will exchange him for good Short-horn cattle. Write him at once and tell him what you have.

Powell Buys Beatty's Herefords.

We have been advised that J. C. Powell, Guthrie Center, Iowa, recently bought the entire herd of Hereford cattle owned by Walker Beatty, one of the oldest and best known breeders in the state of Iowa. There were between forty and fifty head in the transaction, headed by the splendid bull, Beaumont's Defender, a son of old Beaumont, and he traces seven times to old Anxiety 4th. Mr. Powell recently made a dispersion sale himself, but he could not keep out of the business and his love for the Herefords was too strong and he is again in the business for all time.

Rist Offers Choice Seed Corn and Oats.

One of the good seedsmen of Nebraska and the president of the Nebraska Pure Bred Seed Growers' Association, is offering a nice lot of choice seed corn and oats and he says that the prices are lower than he has ever before offered the same quality of seeds for. The reduction in price is brought about by increased yields of his seed farms and better means of handling, storing and better equipped methods of selling. All of these improvements have been for the betterment of his many buyers, for Mr. Rist is satisfied with a small profit, and wishes only to make such an income as will enable him to extend his business, but just now he is making the very closest prices in order to widen his field of distribution and add new customers to his already big list. Leading varieties of oats, and choicest seed corn and other farm seeds are offered. Mention The Homestead and address at once for catalog and full particulars.

West & Son Sell Percherons and Belgians.

On April 17th, Hon. Frank S. West & Son, Wood River, Neb., will sell a choice lot of Percheron and Belgian stallions and mares. This sale will mark the complete dispersion of the well-known stud maintained by these gentlemen for so long. Mr. West was the second purchaser of the noted foreign dealers, Vallandinghem & Co., and have been continually at it ever since. The horses included in this sale will be among the very best ever offered for sale in the West. Nearly all are imported, and the long acquaintaince that these gentlemen have had with the dealers across the water, insure them getting a class of horses that all American importers cannot well get. All the horses offered will be young, and in their very prime. All the mares of breeding age will be well forward in foal or with colts at side. The stallions are all of serviceable ages, and fine thrift. Good colors, and highly desirable is the entire offering. Do not fail to send for a catalog today and when writing, mention The Homestead.

Firme & Stone Sell Short-horns April 23d.

R. C. Firme, Hastings, Neb., and A. A. Stone, Hansen, Neb., will hold their annual sale of Short-horn cattle in sale pavilion in Hastings, Neb., on April 23d. This is the day following the George Allen sale at South Omaha, and the train service is extra good between points. The Firme & Stone sale is an annual event that should be well attended this season as there will be an extra choice lot of cattle put up. Some good, strong, young bulls are being sold, and an extra choice line of young cows and heifers will be offered. The Firme herd is extra strong in the blood of Choice Goods, while the herd owned by Mr. Stone also has much of the same blood lines, and also the blood of Imp. Diamond Rex. Mr. Firme has never spared any reasonable expense in buying his herd bulls. He has paid well up into four figures several times and the resultant good of such sires will be in evidence on sale day. We wish that readers of The Homestead would send in their names immediately, that they may get the catalog as soon as out. Mention this paper when you write and address either R. C. Firme, Hastings, Neb., or A. A. Stone, Hansen, Neb.

Merritt's Seed Catalog.

A catalog of unusual value is put out by Archie G. Merritt, Kellerton, Iowa. It is free from unnecessary exaggeration and gaudy colors and confines itself wholly to practical matters. Mr. Merritt is making a record as a seedsman and we believe it will pay our readers who are looking for good seed to look up his advertisement in the horticultural department of this week's issue and send him an order.

Irvine Goes to Europe.

Chas. Irvine, that enterprising young horse importer and breeder, Ankeny, Iowa, has decided to go to the home of the Belgian and Percheron this year and make his own selections in person. Mr. Irvine's judgment of horses is remarkably good, his selections in the past have been a credit to him and there is every reason to believe that the animals he will select in France and Belgium will be right up to the highest point of excellence of the two breeds. Mr. Irvine, of course, is making this trip for the purpose of buying Belgians and Percherons for himself, yet he is willing to accommodate those farmers or breeders who might wish to have him make purchases for them. Those who do so will be assured of fair and honest treatment and will be accorded the most reasonable prices. Mr. Irvine has during the past four weeks made a number of sales of high-class horses, among these a stallion to I. C. Dowell, Conway, Iowa; a stallion to the Elm Lawn Horse Co., Ireton, Iowa; a stallion to E. O. Nervig, Slater, Iowa, and a mare to Al Mathis, Polk City, Iowa. An announcement of Mr. Irvine's willingness to accommodate his friends will be found on another page of this paper. Those contemplating taking advantage of his assistance should not fail to remember that they should act promptly, as he will sail from New York April 15th. Direct all inquiries to Chas. Irvine, Ankeny, Iowa.

Anoka Farms' Short-horn Sale.

Wednesday of next week, April 2d, is the date for the annual offering of Short-horn cattle at Anoka Farms, Waukesha, Wis. For this event Mr. Harding has selected forty-five head of the top things in his herd, and W. H. Miner, Heart's Delight Farm, Chazy, N. Y., is contributing eight head, the whole forming one of the most attractive offerings of the season. Fourteen bulls are listed, including a dozen with the blood of the great Whitehall Sultan coursing through their veins. We have spoken at considerable length regarding much of this offering, and can only at this time emphasize the necessity of attending this sale if they wish to secure top Short-horns. Remember the date, Wednesday, April 2d, at Waukesha, Wis.

Young Offers Choice Short-horn Bulls.

With this issue of The Homestead R. M. Young, Cook, Neb., is starting an advertisement in which he offers some very choice Short-horn bulls at what are certainly bargain prices. Mr. Young states, however, that he wishes to sell at once, hence the prices named. This is one of the oldest Short-horn herds in eastern Nebraska and the stock sent out from this herd has always made good. Good blood lines are represented and good cattle are certain to be purchased from Mr. Young, and he is the sort of man whom one wishes to do business with. Mr. Young also breeds Duroc Jerseys and is offering a choice lot of bred gilts at $35 each. These gilts will farrow in early April, in fact, some for the whole month, and a few in the first of May. Readers of The Homestead should avail themselves of this opportunity at once. Mention The Homestead when you write and address R. M. Young, Cook, Johnson county, Neb.

Augspurger's Poland Chinas.

E. J. Augspurger, Pulaski, Iowa, has an advertisement in this issue offering Poland China bred gilts for sale. He writes: "I have an extra good lot of gilts bred, sired by a son of A Wonder and bred to my old herd boar, Jumbo's Big Prospect. They are due to farrow about April 20th and are a choice lot of hogs."

Two Good Herd Bulls for Sale.

Elsewhere in this issue W. M. McLaughlin, Shelby, Iowa, advertises his well-known bull, American Goods, for sale, and he is one of the best of all the sons of Imp. Choice Goods now living. He is a six year old and is now in his prime. He weighs 2,200 pounds in breeding condition and he belongs to that celebrated Marsh Violet tribe. He is retaining his heifers in the herd and is therefore offering him for sale. Should someone prefer he will sell his Jasmine bull, the splendid son of Nonpareil Prince that he bought of Chas. Daws. Inasmuch as he now has three good herd bulls he has decided to part with either one of the two older bulls and he will give the buyer his choice. He also has about ten younger bulls for sale and he will price them worth the money. When writing him kindly mention The Homestead.

Milliken Offers Galloway Bulls.

James Milliken, the Galloway breeder at Media, Ill., is making an offering of Galloway bulls that should attract attention. Mr. Milliken has four bulls coming two years old, five coming yearlings and two aged bulls, one four and one six years old, that he will sell worth the money. These bulls are a good, strong lot, all well bred, and parties in the market for good bulls will make no mistake by inspecting them. Mr. Milliken has also females of all ages for sale at farmers' prices. There is no better bred lot of Galloways on any farm than is possessed by Mr. Milliken. The herd contains more McDougall 4th of Tarbreoch blood than any herd in the United States. McDougall 4th was one of the greatest show and breeding bulls that the breed has produced. He was champion of Scotland in 1901, winning first at Castle Douglas, Royal of England and Scottish Highland shows. The same year he was imported to the United States and was champion at the International show and a winner at all the big shows for several years. He was a very prepotent sire, his get having size, substance, quality and character, and the cattle that Mr. Milliken offers are as good Galloways as can be found anywhere. They will be priced at attractive figures to quick buyers. Write Mr. Milliken at Media, Ill., stating your wants, and mention The Homestead when you write.

Insull Buys Truman Mares.

John G. Truman, manager of the Pioneer Stud Farm, Bushnell, Ill., writes: "One of the most interesting transactions in Percheron horses this season is the sale by the Pioneer Stud Farm to Samuel Insull, president of the Commonwealth Edison Co., Chicago, Ill., of six imported Percheron mares and one imported Percheron colt, which, together with one of the mares, is sired by the great horse, Intitule, that we sold to Mr. Insull during the International for $10,000. We question very much if there can be found on one farm in this country three as good Percheron mares as are included in this transaction. They were bought regardless of price and will materially strengthen the Percheron department at Hawthorne Farm. The same gentleman purchased our black and white Hackney pony, Sthoreen Bawn, well known throughout America as one of the most attractive ponies ever exhibited. It will pay any breeder of Percheron horses to call at Hawthorne Farms and see Intitule and his colts. I am pleased to say that our trade still continues brisk, the inquiries being for strictly first-class horses. We feel safe in saying that our new importation, which sailed from England the first week of this month, and which should be in our stables by the time this reaches your readers, is one of the best and most select lots of horses that we have ever shipped. We shall be pleased to forward our 1913 catalog to any of your readers interested in high-class draft horses." See advertisement elsewhere in this issue.

The Sayer-Stanton Short-horn Sale.

Thursday and Friday, April 3d and 4th, the days following the Short-horn sale at Anoka Farms, Waukesha, Wis., 200 head of Short-horns will be sold at Chicago, Ill., by George J. Sayer, McHenry, Ill., and Thomas Stanton, Wheaton, Ill. On Thursday Mr. Sayer will sell fifty head of carefully selected cattle from his herd and Friday forenoon, April 4th, Mr. Stanton will offer the best fifty head that have ever been sent forward from Sittyton Grove herd. The fifty head in the Sayer offering are practically all females, as the demand for bulls has been so heavy that practically the entire crop has been disposed of. The get of many noted sires is represented in this sale. There are daughters of the $10,000 show and breeding bull, Prince Imperial; Glenbrook Sultan, one of the greatest breeding sons of Whitehall Sultan; Leader of Fashion, a great breeding son of the champion, Whitehal Marshall; Whitehall Rosedale by the champion, Avondale; King Cumberland, an International champion, and other strong sires. The majority of the females in the Sayer offering have been bred to Roan Sultan, a son of Glenbrook Sultan, an International winner and one of the best Short-horn bulls in the country today. It would be difficult to find a more attractive sire than Roan Sultan, and the fact that practically the entire offering is bred to him gives added value to every female in the sale. The fifty head that Mr. Stanton will offer contain more outstanding good things than have ever before been offered in a draft sale by this gentleman, and the buying public should not be slow to take advantage of the opportunity to buy the top things that will be offered. Several very strong bull propositions are included in the Stanton offering. The seller realizes that the public is discriminating, and that while they want cattle they want the kind that will stand up under all conditions. This is the kind he is cataloging, and a careful inspection of them shows conclusively that they are a high-class lot in every way, while the breeding is absolutely the best to be found in the herd book. Much interest should attach to this sale from the fact that Mr. Stanton is going to offer the choice of his herd bulls at this sale. He owns Masterpiece by Cumberland's Last, and Browndale Sultan by Avondale. These two bulls are among the outstanding sires of the country, but Mr. Stanton does not require the services of both bulls, so he has decided to give those present at the sale an opportunity to bid for the choice. He can spare either, but not both, hence he is going to give the public an opportunity to say which they prefer. This should attract the attention of those everywhere who are in the market for a proven herd bull. There will be cattle in this sale to attract and please all classes of buyers. The sale follows that of Anoka Farms at Waukesha, Wis., and precedes that of D. R. Hanna at Chicago, Ill., April 4th, the Stanton cattle selling in the forenoon of that day and the Hanna cattle in the afternoon. These four sales give practically 200 head of Short-horns from which to make selections. The final announcement of this sale appears elsewhere in this issue. Look it up and arrange to be at Chicago on Thursday and Friday of next week, April 3d and 4th. The catalog can be secured by addressing Thos. Stanton, Wheaton, Ill.

Escher's Great Angus Offering.

On April 16th, at their Longbranch farm, Botna, Iowa, Chas. Escher & Son, will again make their annual sale of sixty head of high class Aberdeen Angus cattle, and it is an offering that surpasses anything that has heretofore

NEXT WEEK'S SALE PROGRAM

Wednesday, April 2	Short-horns, Anoka Farms, F. W. Harding, president, Waukesha, Wis.
Thursday, April 3	Short-horns, George J. Sayer, Chicago, Ill.
Friday, April 4	Short-horns, Thomas Stanton, Chicago, Ill.
	Short-horns, D. R. Hanna, Chicago, Ill.

been sold from this or any other herd in this country. It is a draft of cattle that has been selected with discriminating care, and includes both imported and home-bred of a high order. They are selling fifty head of females and twenty-five of the cows that go into this sale will average 1,500 pounds. Thirty-five of the cows will have calves at foot by some of the celebrated bulls that they are using at the head of the herd. Such scale and Angus merit when coupled with producing females is worthy the attention of every Angus breeder in this country. Included in this sale will be twenty head of Ericas, twenty Blackbirds, ten K-Prides, and the balance will be Pride of Aberdeens, Queen Mothers and Heatherblooms. Just a word here regarding the bulls that these cows are bred to. First, of course, is Imp. Earl Eric of Ballendalloch, regarded as the greatest Trojan Erica bull today in this country. Earl Eric was a first prize winner at the Perth show in 1906 and cost them $1,000 in Scotland. Some of the cows have calves by him and others are safe in calf to him. Others will have calves at foot by Imp. Eston of Eshott and their great K-Pride bull Kelberg, while others will be in calf to Imp. Eurotas of Finlarig, the young bull that was a first prize winner at the Perth show in 1909 and cost them $1,500. Besides these we must not overlook their two great young prize-winning bulls Prince Felzer, a son of Imp. Prince Felix of Ballendalloch, and Bromo, a son of Imp, Earl Eric of Ballandalloch. The former was second prize bull at the Iowa State Fair last fall and was picked by the most of the ringside talent for first place in the junior class. The latter was first prize bull in senior calf class and two better young bulls will be hard to find in any herd. Some of the females they have listed will be bred to these two great young bulls. They are selling ten of the best imported cows they have in the herd and five of these will have calves at foot. Altogether it is the greatest bunch of Angus cows that has ever been listed for a sale in America, and it is the largest burch of matured females that was ever seen in one offering. Every cow in the sale is a regular breeder, of the rent paying kind, as the calves at foot will prove, and from a breeding standpoint we will say that no better can be had in this or any other country. There will be ten good young bulls in the sale and four of these will be double bred Trojan Ericas and every one a herd header. The bulls they are selling will range in age from ten to twenty months, and there are some outstanding good ones. We will speak of them more fully in later issues, but if you are thinking of buying a bull you can depend upon it that they will offer some of the best young bulls that will be listed for sale this season. Altogether their offering is of unsurpassed excellence, and without question is the greatest bunch of Aberdeen Angus cattle that was ever cataloged for a sale in this country. Every Angus breeder should make it a point to get together and be present at the Escher sale. While all other breeds are now coming into their own it will be a good time for the Angus breeders to come forth and once more show the world that the Angus ranks first and foremost as the greatest beef cattle in the world today. We, therefore, hope you will be present at the Escher sale. Their catalog is now ready and can be had by asking for it and mentioning Iowa Homestead.

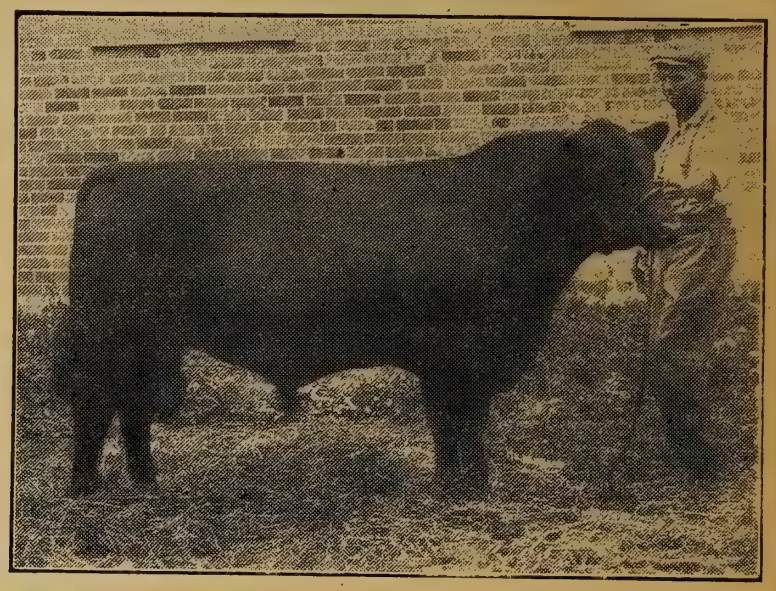
ESCHER'S ANNUAL SALE OFFERING

ABERDEEN ANGUS CATTLE

AT LONGBRANCH FARM,

BOTNA, IOWA, APRIL 16, '13

50 COWS AND HEIFERS, 10 BULLS.



Prince Felzer, an Iowa State Fair winner and one of the greatest young bulls in our herd.

INCLUDED in the sale are 20 royally-bred Ericas, 20 Blackbirds, 10 K-Prides, balance Prides, Queen Mothers and Heatherblooms; 35 of the cows will have calves at foot and 25 of these cows will average 1,500 pounds; 10 imported cows. The best we have ever owned go in, and 5 of these will have calves at foot. We are including 4 Trojan Erica bulls, each one a double-bred Trojan Erica, and a herd header as well. Also a number of other choice young bulls. No better offering of Angus cattle has ever before been listed for a sale in this country or in Europe. Catalog can be had by asking for it. Address

Col. Silas Igo, Auctioneer. CHAS. ESCHER & SON, Botna, Iowa.

Please mention The Iowa Homestead when writing for catalog.

The Mission of the State Fair.

THE original mission of our state fairs has largely been performed. We have now come to another age, in which a new kind of educational service is required of these institutions. In the beginning they were more exploitational than intentionally instructive; their chief function was to advertise the agricultural resources of the great sisterhood of new states. They could not be effective advertisements without having a definite educational and inspirational influence. Their underlying purpose, whatever the wording of the laws which brought them into legal existence, was to attract homeseekers, to induce the clearing and cultivating of virgin soil, to encourage manufacturing, to build up powerful commonwealth, with productive industries and a prosperous, contented citizenship. This was essentially pioneer work. It had to be done, and it has been done, and now other and more important things demand the serious consideration of fair managers and the agricultural public behind them.

A new set of economic and social conditions have been developed in America. It cannot properly be dealt with if we employ old methods. We require new bottles for the new wine which a new and changing America has produced. Our forefathers had vision and looked far ahead into our own time, but they could not forsee our larger problems. They laid a foundation and even built a commanding edifice, but they did not lay upon us the moral obligation to maintain the old structure after it outlived its usefulness.

There is no sort of moral, social or economic justice in entailing property and institutions upon posterity. Future generations have a right to meet their peculiar problems in their own way.

It is sentimental stupidity to reverse traditions and old methods; life is action. Change is the natural order. We must not live too long in the past. Our new and changing life is the red wine that demands modern bottles. An old fact becomes a basal truth tomorrow. Even a seeming untruth often springs into the full flower of a precious verity.

It is evident to any open-minded student of our contemporary life, both commercial and moral, that the old order has changed; that an intricate newness of human society is a fact; that new blood, new methods, new points of view and new ideals are necessary, if we are to solve our current problems, meet our moral obligations, make the most of our splendid opportunities and fulfil our destiny.

Henceforth the fairs have a new and broader mission. Their comparatively simple and crude work has been finished. They have abundantly justified and paid for themselves. They have earned the right to live and flourish. Many of them come down to us in a condition of vitality and eagerness for useful service. Shall we regard them as perfect tools with which to do modern carpentering, blasting, digging, cultivating, seeding, reaping and harvesting, or shall we agree at once, as level-headed men, with eyes open to our own conditions, that they should be changed, sharpened and readjusted?

In the future the fairs must be increasingly instructive, inspirational and entertaining. My own emphasis would be on the last two words, for the things that inspire and entertain inevitably educate. Moreover, our emotions no less than our minds need cultivation. We crave more play and amusement than we take or give.

A modern state fair is a celebration, a festival, a vacation, a recreation. Its essential spirit is entirely foreign to the morbidly serious purpose which our toiling forefathers had in view when they brought fairs into existence. We have outgrown many of the restraints and dogmas that may have been useful in earlier days. We demand more freedom, more joy, more life, than our ancestors dared even to seek. Our attitude toward life is not their attitude; it is less austere, less afraid, less serious. We believe as firmly as they believed in useful education; we respect as much as they respected productive, honest work, but we demand a longer and higher reach of the spirit, a larger scope for the play of our own life, a wider outlook, a greater incentive to thought and action, a nobler excuse for our living. It is impossible for us to be satisfied with their program, excellent as it was for its day. We are compelled by the dynamic force that surges through us to utilize our own personal resources, our individual powers, in building and reshaping the present.

First of all, the fairs need a complete readjustment to the new conditions of society and industry. In fact, the process already is under way. Our most successful fairs are in a healthy transitional stage; they are shifting various organic ways to serve the present generation. A few others are indolently jogging along, hanging to the past, dissipating their waning energies by duplicating themselves, listening to the whispering voice of the past and so failing to hear the clarion call of the living present. It is no wonder that they are having difficulty in securing appropriations. Lacking freshness, enthusiasm and the modern spirit, they are incapable of arousing and holding the fastidious interests of the people. As simple, honest, unadorned, purely agricultural institutions, full of everything excepting inspiration, new ideas and life, they are all that a stolid, incurious, dull-edged craftsman could desire. As expressions of the newer agricultural spirit they are open to serious objections. While standing in an elemental way for education—a narrow education that no longer is needed, in its old form—they do not stand broadly and complexly for the

Short-horn bulls, Gloster Mine and Gloster Fashion, winners as produce of cow at 1912 International. Owned by Anoka Farms, Waukesha, Wis. Gloster Mine is included in the sale to be held at Anoka Farms, Wednesday, April 2d. He has eight first and second prizes to his credit for the last show-yard season.

new and vital education which present-day life requests.

What was meant by the word education twenty-five years ago is not what we mean by education in relation to our own problems, especially in agriculture. Years ago the man whose hand was trained could easily make a living from the fat soil; today the man who succeeds on the farm must have a trained mind. Where the hand used to rule the head now holds sway. We do not need less brawn, but more brains.

Our fairs should exploit the science of agriculture; they have done their share of exploiting the art. When they began their work we had no science of agriculture; we had a crude art. Practice was emphasized. Educational results were secured by means of imitation; what one man did another, seeing the result and securing the prescription, could do. For many years the history of practical farming has been nothing more than the perpetuation of dogmas, the following of ancient example, the wearing of old shoes, the unthinking worshipping of a venerable Confucious represented by old, fossilized methods.

Now that science has come modestly, but actively into the field, the whole trend of agricultural education has changed. We now seek scientific facts, with their fascinating philosophies and social implications, where our forefathers found and were content with rules, plans, prescriptions, cut-and-dried statements and formulas which could be used like machines. Land has become soil, with its millions of life forms and chemical wonders; animals have come to be individuals, with marvelous capacities to serve man; crops are living, feeding, breathing plants, with beautiful relationships, wondrous adaptabilities and an astonishing veracity—yielding, besides their own wealth, important information to the man who is trained to interpret their language.—[D. C. Wing before Association of Fairs.

In and Around Wisconsin

A car load of high-producing grade Holstein cows and heifers were purchased last week from farmers living in Monroe and La Crosse counties and shipped to Idaho, where they will be the foundation stock for a herd of "black and white" cattle, which is to be established upon the Honey-suckle farm at Hayden Lake, Kootenai county, Ida. The manager of this farm is J. W. Bilkey, who is a graduate of the Wisconsin College of Agriculture and who previous to his going west was engaged in the dairy business in Wisconsin. Under his supervision the F. Lewis Clark Company, of Spokane, will establish a model dairy upon their Honey-suckle farm. At the head of the herd will be a Hengerveld bull, which he purchased from W. H. Ascott, of Sparta, who is the secretary of the Monroe County Holstein Breeders' Association.

It is doubtful if this legislature will extend the time for the use of undersized berry boxes or baskets. Many of the members are of the opinion that berry growers and dealers have been given sufficient time in which to dispose of all stock which did not measure up to the required capacity and are inclined to permit the inspectors to impose fines upon those who persist in selling fruit in boxes which are not up to the standard required by law. The enforcement of this law will be left to the dairy and food commission of which J. Q. Emery is the chairman.

To the end that Waukesha may continue to be known for the excellence of its Guernsey cattle and the reliability of its breeders, officials of the Waukesha County Guernsey Breeders' Association have adopted the following rules for governing the consignment of cattle to their fourth annual sale which will be held in Waukesha on May 15, 1913. No animal will be cataloged until an entry fee of $3 has been paid. Animals under five months of age at the time of the sale cannot be consigned. Substitution of animals will in no case be allowed. The outside sale of animals consigned to the sale is prohibited. Every animal consigned must be accompanied by a certificate of health. Every animal must be guaranteed as represented and every consignor will be held responsible for his representation. All animals offered for consignment will be inspected by a committee representing the association, who will have full power to accept or reject as they think best and consignors to this sale will not be allowed to bid upon any of the offerings or permit others to bid for them. Purchasers of breeding stock consigned to the fourth annual sale of this association are certainly protected in a very unusual manner. The Waukesha county breeders are determined to make their county one of the leading Guernsey cattle centers of this country and their association an organization known for the square dealings of its members.

That the outlook for sheep husbandry has never been brighter than it is today is the opinion of Frank Kleinheinz, shepherd of the University of Wisconsin flocks. In support of this contention Mr. Kleinheinz argues that the western ranges have been so cut up and divided as to make it impossible to raise sheep in large numbers upon them, that the Australian flockmasters have lost millions of their sheep during the past two years on account of heavy drouths and lack of feed and that many Wisconsin farmers will be induced to engage in sheep raising because of the difficulties in employing labor to carry on the more demanding types of stock raising. It is up to the smaller farmers of the middle West, he declares, to raise more sheep and to make up the shortage of the needed supply, and he ventures to predict that sheep will bring very high and satisfactory prices for many years to come. The frequently expressed fear that a democratic president will remove the tariff from wool does not give him grave concern, for he believes that conditions in all the wool-producing countries of the world are such as to provide a market for our wool at entirely satisfactory prices.

The exhibits of Clydesdales and Percherons at the 1913 Wisconsin State Fair will be superior to any ever seen upon the Milwaukee grounds, if the plans of the Wisconsin Horse Breeders' Association and the state board of agriculture mature. Upon the recommendation of the officials of the horse breeders' association Clydesdale and Percheron futurity classes have been established and a purse of $800 will in all probability be provided for winners in this division. It is not improbable that the Wisconsin classes will be done away with and that the premiums in the open classes will be extended three places. At the recent meeting of the state board it was decided to eliminate the classes for grade coaches and to put forth special effort to secure a better representation in the grade drafter classes.

If creamery butter is not to have a tainted flavor the cream should be collected by the haulers at least twice each week. In a community in which the cream is collected but once each seven days it is almost impossible for the patrons to supply cream, which when made into butter will be entirely devoid of foreign flavors. Thirty-one per cent of the exhibits of butter entered in the Wisconsin Butter Scoring Contest for March scored 93 per cent or higher and but 4 per cent fell below 90, which record shows the superior quality of one of Wisconsin's dairy products. The average water content of the entire display was below 14 per cent and but two exhibits exceeded the limit of 16 per cent.

For the purpose of encouraging the production and feeding of more and better beef cattle the Southwestern Wisconsin Fair Association will provide a premium fund of $320 for an exhibit of fat steers at the fair to be held in Mineral Point from August 19th to 20th inclusive. The cash awards are to be given for the three best yearlings, three best two year olds and the three best three year olds of any breed which have been fed by the exhibitor. The amounts are to be $40 for first, $30 for second and $20 for third premium. The sweepstakes premium will be $50. D. E. Jacobs, of Mineral Point, who is the secretary of this fair association, is confident that the liberal premium fund will bring out a representative display of the breeds of beef cattle raised in southwestern Wisconsin, which is the leading beef-producing section of the state.

A BOOK ON VEGETABLES.

It is safe to say that the farm garden is the most mismanaged part of the average farm unless it be in those cases where it is under the entire supervision of those who also have the household affairs in charge. In many cases it is a species of wanton neglect on the part of the farmer though, of course, there is the old excuse that there is no profit from the garden and that labor must be placed where it will bring returns. As a matter of fact the farm garden can be used to cut down the household expenses very greatly and it is for the purpose of accomplishing this end that a very convenient little book has recently been issued from the pen of Mr. Allen French. It is a work of 300 pages and it sells for fifty cents. Every conceivable kind of garden crop is discussed in detail and specific instruction is given on methods of sowing, harvesting, storing, etc. Not only that, but the various diseases of garden crops are enumerated and methods for keeping all kinds of pests in check are given in detail. We are in a position to furnish our readers with copies of this work at the above mentioned price and we hope that many will take advantage of this bargain counter offer. The book is well illustrated and is up to date in every way.

"A strain of barley has been developed in Wisconsin that last year was six and one-half bushels ahead of the average yield. That increase on the entire acreage of last season would have been worth $27,000,000," says the Wall Street Journal. "We plant 37,000,000 acres to oats and get an average of less than thirty bushels, when more could be obtained. The ten-year average yield of potatoes is 92.7 bushels per acre. Maine has produced as nigh as 220 bushels. A potato will reproduce, not like itself, but like the nest or hill it came from. Yet little attention is paid to selection, which could increase production 50 per cent. When 3,500,000 acres are planted, what a shameful waste! Cotton planters should know that their salvation lies in their power to increase the yield and improve the quality. The expert in charge of cotton breeding in the department of agriculture says: 'By a system of selection and breeding, both yield and quality could be greatly raised. As an estimate of the advantage to be gained annually, $200,000,000, is not unreasonable.'"

"I believe that hogs will sell at nine cents or higher in April, and most of the hog shippers from the country whom I talk with now and then say that next summer is when we will feel the real shortage of hogs," said Patrick Cudahy, the Milwaukee packer.

TOO LATE TO CLASSIFY.

100 HEAD HEREFORD BULLS FOR SALE 100

WE are offering 100 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Will also sell car load of heifers and cows. Come and see us right away.
A. SPOONER & SON, - - MONDAMIN, IOWA.

McLAY CLYDESDALES MAKE GOOD
McLAY BROTHERS,
Janesville, Wisconsin

TOO LATE TO CLASSIFY.

COLLINS' JERSEY RED the best pig bred
Fattens quickest at least cost. Healthy, prolific, small-boned, long bodied—meat unsurpassed. The "perfect profit pig." New catalog FREE.
ARTHUR J. COLLINS Box 14 Moorestown, N.J.
375 lbs. in 9 months!

BEEF AND MILKING SHORT-HORNS Will ship you a nice blocky red or roan, registered Short-horn bull calf weighing about 500 pounds for $65, or a 600-pound Polled Durham for $75.00, or a fall yearling Short-horn for $75.00. Also bred Duroc Jersey sows at $35.00. Address R. M. YOUNG, Cook, Johnson County, Nebraska.

WAYSIDE POLAND CHINAS Big type. A choice lot of fall pigs, either sex, at $25 for choice. Also a granddaughter of A Wonder bred due April 20th. E. J. Augspurger, Pulaski, Ia.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

GOOD LUCK HERD
POLAND CHINAS
A FEW big-type September boars and gilts for sale. The large, useful kind, with quality, bone 7 to 8 inch. Sired by Giant Wonder 184793. Will ship on approval express prepaid. Satisfaction guaranteed. Write us for description and prices. Address
L. S. FISHER & SON, R. 1, Edgewood, Iowa.

Stallions and Bulls
THE Iowa State College is offering for sale one Clydesdale stallion coming two years old sired by Kuroki (12629) 13214, dam Maggie Refiner 13341 by Refiner (12301) 12116; 2d dam Princess Maggie 10880 bred by Colonel Holloway. Also several good, young Short-horn and Angus bulls. Address Division of Agriculture, Iowa State College, Ames, Iowa.

Bulls SHORT-HORN Bulls
36 BULLS for sale. 14 coming 3 year olds, 10 coming 2 year olds, 12 coming 1 year old. $125 for the twos, $150 for the threes, $60 up for yearlings. Red, white and roans. Range men, come and see. Are priced to move them. Scotch and Scotch Topped
R. E. Baldwin, Osceola, Iowa, C. B. & Q. R. R.
Phone 111 on 6, Woodburn, Iowa.

BELGIANS, PERCHERONS
HOME-BRED, registered Belgian stallions; home-bred, registered Percheron stallions and mares. Also standard bred, both sexes.
E. P. HAMILTON & SONS,
Garden Grove, Decatur county, Iowa, R. F. D. 2. 23 miles southwest of Chariton.

BULLS ALL SOLD
12 PURE-BRED cows, but not registered; price $75.00. To calve soon. Some registered heifers, year old now. Price $100.
J. A. AMSBERRY & SON, Mason City, Neb.

PERCHERON STALLIONS
SOME bargains in Percheron stallions, ages ranging from yearlings to five year olds. Good propositions on both quality and prices. Address.
L. A. MATERN, WESLEY, IOWA.

BERKSHIRE SWINE.
BERKSHIRES
We are now ready to book orders for Pigs from Spring farrowings, to be shipped when weaned. We also have a few very fine pigs from last Fall litters still unsold. Be sure and write before buying.
MORGAN FARM BELOIT WIS

HOLLAND FARM BERKSHIRES
YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa.

GALLOWAY CATTLE.
PURE-BRED GALLOWAYS
Bulls, Cows and Heifers for sale at farmers' prices.
JAMES P. MILLIKEN, MEDIA, ILLINOIS
Main line Santa Fe Railroad.

IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address, C. S. Hechtner, Chariton, Iowa.

MULE-FOOTED SWINE.
MULE-FOOTED HOGS
THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

MULE-FOOT HOGS
FROM state fair winners. Bred sows. Pigs in pairs and all kinds of stock for sale. Pedigree furnished with each animal. Address ZENE G. HADLEY, R. F. D. 5, Wilmington, Ohio

Mule-Foot Hogs
Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

Productivity of Select Seed Corn.

By James H. Murphy.

THE prospects for valuable results both practical and scientific from corn breeding are, it is claimed, very much brighter today than ever before. There is a demand for pure-bred seed corn, which is far from being satisfied, while the price of such corn is four times that of the ordinary feed corn. However, in these days of prosperity we often lose sight of the fact that as much or more of the value of a crop is dependent upon its care, than upon the type of seed used. Due to the high prices and big demand for pure-bred seed corn many growers become careless in their methods, and indolent in their attendance to the fertilization, cultivation and other vital points so essential to the growth of a good crop of corn. According to Prof. C. P. Norgord, of the Wisconsin College of Agriculture, much of the poor corn yields in this state are due not to the use of poor seed, but to poor or untimely cultivation. Land to produce a good corn crop must be fairly rich, but experience has shown that applying barnyard manure and then plowing it under is a rather wasteful method, and does not give nearly as good results as does top dressing the same land. Although instances are often given where spring plowing has produced very good corn crops, general experience has shown that in the long run fall plowing is far more satisfactory, and practical, and is the only method which should be followed. When fall plowing is followed by a deep thorough cultivation with disk and harrow in the spring, the ground is put in a nearly ideal condition for the corn crop, and also for subsequent cultivation throughout the season. Frequent light cultivations throughout the growing season, especially if the season is drouthy, have a very beneficial effect upon the crop. Experienced farmers never allow the surface soil to bake, cultivating every week and always as soon as possible after every rain. More frequent cultivation proves beneficial during a dry season, but even this may be carried to an extreme. One farmer of my acquaintance went so far as to finish cultivation for the season by dragging an old iron wheel between the rows, pulverizing the soil to a dust, which at the first rain packed and hardened like so much concrete. Such treatment is a detriment during the remainder of the growing season.

The rotation followed has a decided effect upon the corn yield, but the practice found most successful by the farmers of this state is to plow up clover sod for corn, follow the corn with oats or barley, and then seed again to clover. The manure from the farm is always used to top dress the clover fields, and this puts the soil in an excellent condition of fertility for corn. It is best to put oats or barley on land at that period of rotation when it is in the least fertile condition, because a too rich soil will cause a rank growth and consequent lodging. The land is usually left in clover for two or even three years.

Aside from the matter of soil and cultivation, the yield is always greatly influenced by uncontrollable conditions such as rainfall and climate. These will greatly affect the crop from year to year, but proper cultivation is beneficial under any conditions. No fixed rules can be prescribed as to the best methods and time of cultivation, many experienced and successful farmers following vastly different systems. All agree, however, in recommending frequency of cultivation, a good seed bed, fertile soil and a good rotation. Vital as these points may be, however, we must never lose sight of the fact that good seed is an absolute necessity. Good pure-bred seed of a high percentage of germination is recommended by all growers as one of the most highly essential factors of a good corn yield.

The winter was so mild that none of the berry bushes were killed. We recently got eighty blackberry plants from our brother's "patch" and although they were young and tender, not even the tips were pinched by the winter freezes. Peach buds seem to be few in number on the trees, however, and a certain per cent of those appear to be killed.

FUNDAMENTAL PRINCIPLES OF THE RAFFEISEN BANKS.

There are four fundamental principles of the true Raiffeisen banks that were insisted upon by the founder. These are:

(1) Unlimited liability to the members.
(2) A restricted area of operation.
(3) Gratuitous management.
(4) No dividends.

Under the circumstances under which these banks were established these principles were the most natural course to follow. The members were practically without credit and it was only by assuming unlimited liability for all members that they could hope to acquire any collective credit. The question of limited or unlimited liability was a matter of little consequence to the individual member. But as the rural banks have spread into the more prosperous agricultural regions of Germany, and especially among farmers of varying degrees of prosperity, the principle of limited liability has been adopted. In the Province of Saxony, for example, in Prussia, one of the most prosperous and fertile agricultural sections of Germany, there are nearly 700 rural banks, but practically all of them are organized on the limited liability basis.

Restricting the operations of the banks to a limited area was the natural consequence of adopting the principle of unlimited liability. Members would only be willing to join such an organization where they knew each other personally. Raiffeisen thought to make the bank the center of the economic life of the rural community or parish and at the same time a member of a larger organization. This feature has been generally adhered to in the development of the rural banks. At the present time their business is confined to relatively limited areas.

The principle of gratuitous management has been emphasized in the description of these banks much more than it deserves. In the small circle in which they did business and the relatively small volume of business they transacted, the position of director on their boards was one of honor, that took little time and was performed as a matter of course, without compensation. The accountant or bookkeeper who did the work of the bank was salaried in all cases. As the business of the rural banks has increased and the duties of the officers increased, a system of paid officials has immediately replaced that of gratuitous services.

Considerable emphasis is also laid on the fact that in the Raiffeisen banks there is no distribution of dividends. In the beginning, however, there were no shares issued, and in fact, not until 1876 when it was necessary to do so to comply with the Imperial law. By not issuing shares, Raiffeisen sought to avoid any chances of capitalistic speculation, and when obliged to issue shares to comply with the law that required all co-operative societies to have foundation capital, he sought to evade it as far as possible and fixed the shares at a maximum value of ten marks. In 1909 the average paid-up capital per member amounted to only nineteen marks; less than $5.

The profits from he business are carried to a permanent reserve fund that cannot be distributed, but in some cases the paid-up stock is allowed a dividend, not to exceed the maximum rate of interest charged to borrowers. In 1909 the net profits of the rural banks in Germany were more than 7,000,000 marks, of which only a small fraction was distributed as dividends, which in no case exceeded 4 per cent of the paid-up shares, and in many cases no dividends at all were distributed. In this way the banks are continually strengthening their financial position and emphasizing the fact that their primary object is to supply credit to their members on the most favorable terms possible, and not to make a commercial profit on their business.—[By Prof. H. C. Price in Ohio Bulletin.

SAVING THE BIRDS.

To the Editor of The Homestead:

I noticed a recent article in your paper entitled "Slaughtering Useful Birds" wherein it is stated that we are losing an immense fortune through the loss of these birds and says further that they are slaughtered to satisfy the passions of the hunter.

While this is true to some extent I wish to say a few words which to my certain knowledge will explain the destruction of the birds to a large extent. "The crows and bluejays are mostly responsible for their disappearance. If the government would give a bounty of twenty-five or fifty cents a head for crows they would be doing more good to the farmer than all other protection they now give him. All the crow is good for is to pull corn when it is planted and rob the little birds of their eggs and young, until the corn has matured quite good size ears when they strip the husks down and spoil it.

Not a single bird is killed by hunters on my 160-acre farm if I know it except the English sparrows, bluejays and crows. The crow kills and robs the ground birds and the bluebirds, and the bluejay robs the thrush and robin and all other brush birds while the sparrow drives away the swallow, martin and pheobe. When the government gives a bounty for the afore-mentioned robbers they will be on the road to save our song birds, but the crow is the worst of all and the sooner a bounty is placed on his head the better.

Carl A. Wendler.
Waukesha county, Wis.

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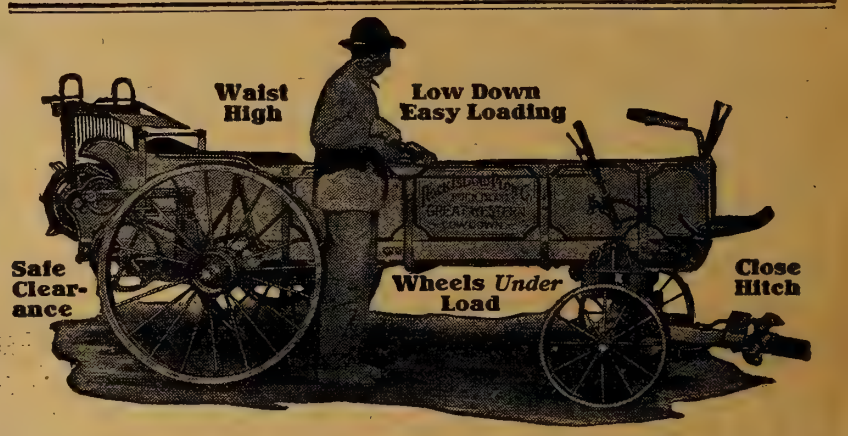

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Great Western

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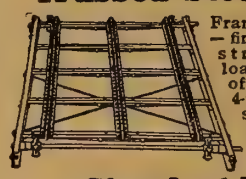

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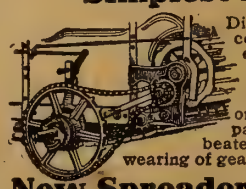

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140 SHORT-HORNS AT PUBLIC SALE 140
CHICAGO, ILLINOIS, APRIL 3 AND 4, 1913

SAYER-STANTON

George J. Sayer, McHenry, Illinois, and Thomas Stanton, Wheaton, Illinois, sell

100 HEAD THURSDAY AND FRIDAY, APRIL 3, 4.

FIFTY head are listed by Mr. Sayer, and include a number of the get of the $10,000 bull, Prince Imperial; Glenbrook Sultan, one of the greatest sons of Whitehall Sultan; Leader of Fashion, the greatest breeding son of the champion, Whitehall Marshall; Whitehall Rosedale, by the champion, Avondale; Superbus, King Cumberland, and a lot of other good ones. Most of the females in Mr. Snyder's offering are bred to the champion, Roan Sultan.

Fifty head will be presented by MR. STANTON, the best offering that has yet been sent forward from Sittyton Grove Farm. They include the get of Masterpiece, a sire that has demonstrated his prepotency in the Sittyton Grove herd; Selection, by the champion Avondale, and himself an International champion; Ceremonious Archer, Glenbrook Sultan, and other top sires. Some outstanding bulls are included in this sale. Mr. Stanton is the owner of two great herd bulls, Masterpiece, by Cumberland's Last, and Browndale Sultan, by Avondale. He can dispose of one of these, and has decided to offer the choice at the sale. This is the bull opportunity of the year.

Get the catalog, and arrange to attend the sale. Mention The Homestead and address,

THOS. STANTON, WHEATON, ILL.

D. R. HANNA

D. R. Hanna, Cottage Hill Farm, Ravenna, Ohio, will sell

40 HEAD FRIDAY, APRIL 4

THIS is a select offering of well bred females and bulls, and includes a number of show propositions by VILLAGER, the sire that is making such a great reputation at the head of the Cottage Hill Farm herd. TEN BULLS are listed, six of them by Villager and four by his son, Village King. Last year Villager had a strong showing in the big rings, having to his credit the undefeated calf herd, young herd, senior and junior heifer calves, a record never before achieved by any sire of any breed. The sire of Villager, Village Beau, is the greatest sire of show stuff in Great Britian today, and Villager is bound to rank among the greatest Short-horn sires in this country.

All the females in this sale are either by Villager or one of his sons, or are bred to Villager, Village King or the sensational Village Denmark, so that no matter what you buy you are bound to get some of this prepotent blood. Attend this sale. The cattle are right in every way, and it is the opportunity to secure some of the blood of a bull that is destined to rank with the great Short-horn sires. Write today for the catalog, and arrange to be on hand April 4. Mention The Homestead and address,

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60 HEAD---50 FEMALES, 10 BULLS---60

OWING to the death of Mr. Roberts, we are closing out his entire herd which is one of the best in the west. There will be **26 head of Blackbirds, 12 to 15 Trojan Ericas,** and the remainder will be **Queen Mothers, Prides** and **Heatherblooms.** Included will be the prize winning bull **Deceiver,** grand champion bull at Seattle; **Botna Valley Blackcap,** a 2-year-old Blackcap bull, **Black Pier,** a well bred Blackbird bull by Blackbird Barney, and several other well bred Blackbird and Erica bulls. There will be three imported cows, viz: **Imp. Elnora, Imp. Erebena** and **Imp. Percefoam of Stenhouse,** together with all the great cows that were sale-toppers at the leading sales the past few years. There will be **19 choice young heifers in the sale.** The best cattle from the most noted herds were purchased for the founding of this herd without regard to expense. Write for catalog and come to the sale which will be at the fair grounds adjoining the city of Atlantic. Address,

WALTER ROBERTS ESTATE,
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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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Big, black business bull—Ready for you—The kind you want—Both quality and price will please—Come to see.

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I have 9 Angus bulls, with quality and breeding, that I am offering at farmers' prices. One of them is a toppy blackbird calved last May. They were calved from Oct. 1911, to May, 1912. Call on or write
A. G. MESSER, GRUNDY CENTER, IA.

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WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

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THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy, Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
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I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale as I can spare him. He** is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
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I AM offering one good yearling and one nine-months-old bull for sale. Both sired by **Gypsy King.** One is a Young Phyllis and one is a Young Mary. Price, $100 each. Come and see these at once. Address
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Choice Scotch Bulls
FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
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LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Are of the Brawith Bud, Princess Royal, Alexandria and Athene families. Are priced to sell. Come and see or write.

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LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
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ONE of the greatest Scotch bulls of the breed is the sire of the young bulls we have for sale. We maintain a herd of heavy-milking cows that are great feeders. We name farmers' prices on the young bulls. Write us. Address

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MILKING SHORT-HORNS. Cows that have made a pound of butter a day under official tests. Bulls which carry strong milking strains and are good Short-horn types. Have extra good young stock from these animals for sale. Address
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THE real beef and milk kind. Bred from choice foundation material, kept improving by the use of the very best sires to be had. Twenty cows and some choice bulls for sale. Mention Homestead and address J. F. EGGER & SON, ROCA, NEB.

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9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address J. E. BARR, R. F. D. 4, Davenport, Iowa.

SHORT-HORN CATTLE.

SHORT-HORN BULLS

AT Pike Timber Stock Farm—1 Scotch Rosemary, all red, 18 months old; 2 Scotch Lancasters, 10 and 11 months old, both red and outstanding good ones; also 2 topped bulls 11 months old, red. Address
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Three young Scotch bulls herd-heading material. Address **C. & C. T. VAN LINT, Pella, Ia.**

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FOR registered Short-horn cattle, a good **SHIRE STALLION** coming 6 years old, a sure foal getter and a splendid breeder. Price low. Write quick.
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SHORT-HORN MALES Yearlings all sold, have a nice lot of 1912 calves, reds and roans. J. T. Swearingen & Sons, Hedrick, Ia.

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BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah, Newton, Iowa.

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I HAVE 6 young bulls by Young Albany and Dale's Eclipse, one an extra good one. I will sell a few cows and heifers all safe in calf to young Albany, a bull I recently sold for $500. Write for prices and description, mentioning The Homestead.
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I HAVE a good thick yearling at $150. A good 2 year old at $125. I will take $100 for the choice of my bull calves, 8 to 12 months old, and they are good ones. Lamplighter, Earl of Shadeland and Beau Brummel breeding. Write or visit at once mentioning Homestead. Farm near Ledyard, Iowa.
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AVOCA, IA, MARCH 20, '13
50 HEAD—25 bulls, 25 cows and heifers.
Send for my catalog. Address
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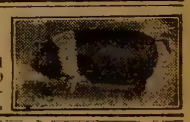

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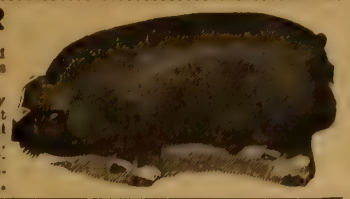

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AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R-4. P. S. & S. BARR, - Davenport, Iowa.

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HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead, J. W. STORM, SEVILLE, OHIO

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SPECIAL OFFER. 5 extra choice boars ready for service. If you need a boar we will try to please you. For prices write MENAUGH BROS., Gardner, Ill.

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Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

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YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C. FRANK J. CLOUSS, Barnum, Iowa.

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12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

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including a car load of choice young Percherons, 60 head, the best importation of Belgians that ever came to America; arrived Oct. 14—making 100 head imported by me this season. Write for catalog.

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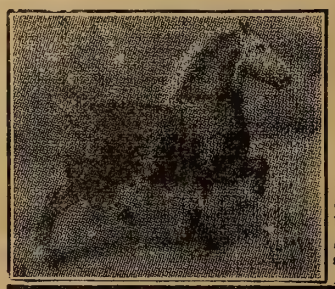

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LAFAYETTE COUNTY JACK FARM

10 PERCHERON STALLIONS 10

SELL or trade for good jacks. All registered, mostly imported. 40 MAMMOTH KENTUCKY and MISSOURI-BRED JACKS and JENNETS 14½ to 16 hands high. All blacks. Jacks are broken. Jennets bred to Dr. McCord. Everything priced to sell. NO PUBLIC SALE THIS YEAR.

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40 MAMMOTH BLACK JACKS 40

A FEW JENNETS

STUD jacks and great mule jacks are our specialty. Jacks that stand from 15 to 16 hands high and range from 2 to 5 years old. Blacks with mealy points. Come and see them. Address, mentioning The Iowa Homestead.

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Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

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PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

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PERCHERON, BELGIAN and GERMAN COACH.

Our barns are filled with seasoned horses of strong individuality, extreme quality and the highest breed type. We will price them at bed-rock figures and give you a guarantee that is different and more liberal than that of any other firm. You will save money if you investigate our plans and terms and see our horses. Mention The Homestead when you write.

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IMPORTERS AND BREEDERS OF

PERCHERON, BELGIAN and SHIRE

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50 HEAD of American-bred, pasture-raised stallions from 2 to 5 years old. The good rugged kind with plenty of bone, weight and quality. 40 head of American-bred mares. They are as good as grow. We always have a good assortment of Imported stallions and mares weighing a ton and over. Next importation will arrive in February. Every day a bargain day at our barns.

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SAY, Brother Horseman, if you want to buy a stallion go to Hudson, Iowa, and see Crownover's new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

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Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.

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PERCHERONS, SHIRES, BELGIANS, MAMMOTH JACKS and JENNETS

Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address

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60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

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One of the largest selections of black Mammoth Jacks in the West. 15 to 16 hands, standard measure. The kind all are looking for. Priced right. Guaranteed. Reference: The banks of Lawrence, 40 miles west of Kansas City. Address **Al. E. Smith, Lawrence, Kansas**

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Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

GOOD enough to win grand championships at the Iowa State Fair. We won grand champion Belgian stallion at Des Moines, 1912. If you want heavy-boned draft stallions or mares write me, mentioning The Homestead.

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Home-bred registered stallions, $300 to $650; imported stallions and mares at reasonable prices. Come to a Real Horse Market and see more stallions and mares than at any point in America.

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FRANK L. STREAM, Creston, Iowa

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SHIRE AND PERCHERON STALLIONS AND MARES

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IRVINEDALE BELGIANS

IMPORTED and home-bred stallions and mares. All ages. Prize winners and the produce of prize winners. Top quality at reasonable prices. Address

CHAS. IRVINE, Ankeny, Iowa.

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Most Women Prefer the New Butterfly

Only $2 DOWN

One Year To Pay

Here is the opportunity you have been waiting for—a chance to get one of these big-capacity, light-running, easy-cleaning, close-skimming New Butterfly Cream Separators without taking the money out of your pocket.

By paying only $2 down, you can get the biggest machine we make, use it 30 days free, then if you decide to keep it pay us the rest of our low factory-to-farm price (only $24 and up) in small, easy installments. You can make these payments monthly out of the extra cream profits which the machine will save for you. You buy direct from the manufacturer and save half. You try the machine 30 days on your own farm before you decide to keep it. You get a signed lifetime guarantee. You have the benefit of this great labor-saving machine while it is earning its own cost and more. You don't risk a single penny. We pay the freight both ways if the separator fails to please you. Get your separator NOW at factory prices and on terms so easy you won't feel the cost at all.

New Butterfly Cream Separators

will make you $10 to $15 a year more profit from every cow you own. They are handsome, high-grade, durable machines. The most modern and convenient separator you can buy. No other separator costs more to make, has so many patented improvements or gives you as much value for your money. We will prove this on your own farm, or no sale. Thousands are in daily use all over the United States. Read the letter at right.

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Dear Sirs: I like the separator; I think it is a daisy. It certainly is everything you claim it to be. I would not exchange it for any other separator, regardless of make or price. The——, which I am shipping you today, took all the strength a man had to run, but my little 8-year-old boy can run this one easily. It skims perfectly clean, and is so easy to wash.

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Frictionless Pivot Ball-Bearings; Open, Easily-Cleaned Milk and Cream Spouts; Self-Draining Bowl and Tank.

30 Days' Free Trial

Lifetime Guarantee

Fill out the coupon below—mail it to us right away for free catalog folder. Get our big special offer on the five sizes of machines we make, so you can pick out the one that exactly suits your requirements. We will ship it to you on our easy payment terms of only $2 down and let you try it 30 days on your own farm. When the 30 days are up, **if for any reason** you are not pleased—if you don't prefer the New Butterfly to any other separator you ever saw or used—just return the machine to us. We will pay the freight both ways and refund your first payment. You won't be out a single penny.

TEAR ALONG DOTTED LINE

Every New Butterfly Separator is guaranteed against defects in material and workmanship, regardless of how many years you have used it. No other separator manufacturer will give you this signed lifetime guarantee.

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The Iowa Homestead

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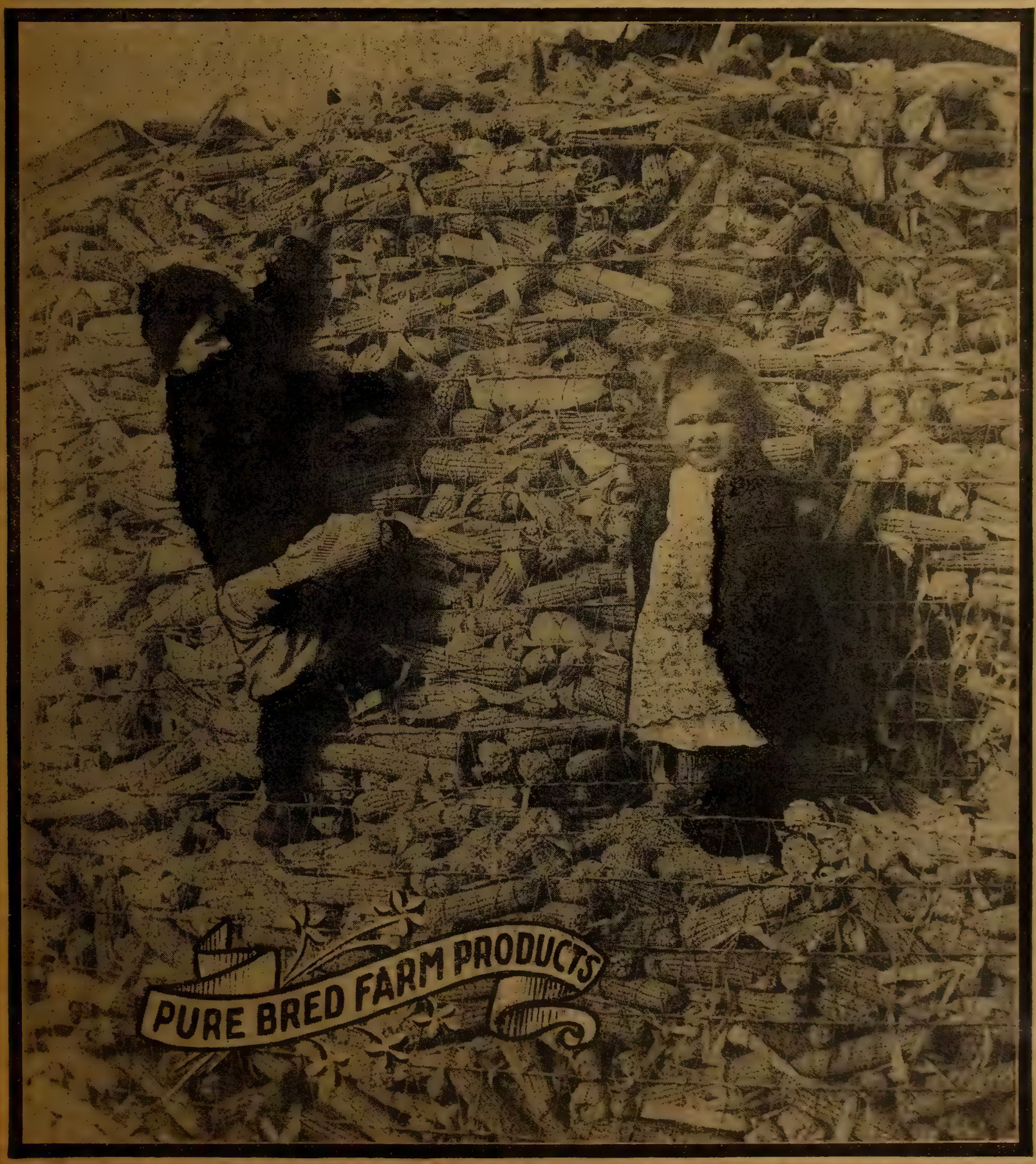

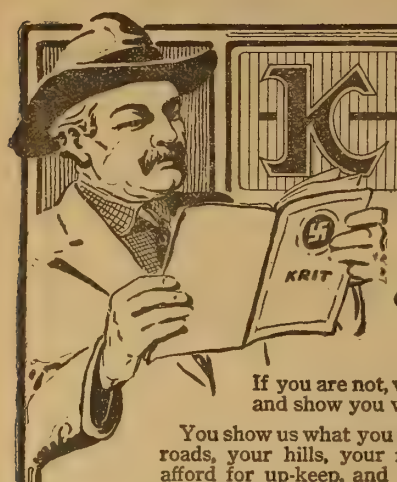

K-R-I-T

Are you a "K-r-i-t-Farmer"?

If you are not, we will send the K-r-i-t out to your farm and show you why you should be a "K-r-i-t Farmer."

You show us what you want a motor car to do. Show us your roads, your hills, your mud, your sand and the cost you can afford for up-keep, and we'll show you the car that can do it. It is the K-r-i-t.

Four thousand farmers are driving K-r-i-t-s. We want to show you why they bought K-r-i-t-s. We want you to ask them how they like their K-r-i-t-s. We'll put you in touch with them. Write us for names and addresses of K-r-i-t—farmers.

We know why they bought K-r-i-t-s. The three dominant reasons are—The K-r-i-t Motor, the K-r-i-t Transmission, the K-r-i-t Axle. Those are the Three Prime Essentials of the car that is Sturdy, Reliable, Durable and Economical.

The K-r-i-t has the ball-bearing unit powerplant; four-cylinder water-cooled motor, cylinder cast enbloc of the highest quality grey iron casting. The K-r-i-t has the annular ball-bearing sliding-gear transmission with chome nickel gears.

The K-r-i-t has axle and springs made of Vanadium Steel and steering arms of Chrome Vanadium. The K-r-i-t in every essential part has more durability, more construction strength, more power, more real sturdiness than a car of its rating actually needs. But that is what has lifted the K-r-i-t out of the $1000 class. That is why four thousand farmers are driving K-r-i-t-s.

Write us for the name of the nearest K-r-i-t dealer and he will bring the K-r-i-t to your farm.

Krit Motor Car Company

1660 East Grand Boulevard Detroit, Michigan

Get Galloway's Startling Price

Slashing Offer on Harrows and Harrow Carts

I am making the most startling, the most amazing price slashing offer ever made on harrows and harrow carts. Write me at once—or order right direct from the amazingly low prices given here—act quick. Sold on 30 days' approval test. Backed by ***$25,000 bond.***

Get My Big FREE Book Now

Galloway's Prices Are Lower Than Dealers Pay in Car Load Lots

Yes, Sir,—I will sell you a genuine Galloway Guaranteed New All Steel High Wheel Harrow Cart for $5.50, and a Galloway Guaranteed All Steel Flexible Lever Harrow as low as $11.00—both for $16.25—less than your dealer would have to pay for inferior articles in car load lots! Last year we sold thousands of these carts and harrows. This year we are going to sell three where we sold one before. The price will do it. Here is your chance—act quick.

My Particular Hobby

This Galloway Harrow Cart is a pet of mine. I made my start with Harrow Carts—sold 4,400 the first year, 7,200 the second year and have been selling thousands every year since at prices that smashed all competition.

My All Steel Harrow Cart is different—original—with special patented features that put it in a class by itself. It will successfully follow any harrow without interferring with levers and sections, and at the same time will turn perfectly without changing position of driver in seat. It is closely connected to the harrow and has high spring seat that raises operator up out of the dust. Heavy steel angles; axles have oscillating arms made of solid steel bars; dust proof boxes.

Prices F. O. B. Waterloo or Kansas City

N1993—New High Wheel Harrow Cart, 30-in. wheels: dust proof boxes; weight, 80 lbs.; price..... **$5.50**

N1994—New High Wheel Harrow Cart, 38-in. wheels; dust proof boxes: weight, 85 lbs.; price..... **$6.25**

You can't afford to walk behind a harrow, when you consider the saving in time and shoe leather my Harrow Cart makes you. It means at least one hour a day besides the greatest saving in labor for the money ever offered a farmer.

World's Greatest Harrow

Since developing my Harrow Cart, I have perfected Galloway's New All Steel Flexible Harrow—the only harrow made that can be adjusted with levers. For years when I traveled on the road I sold a wooden flexible harrow to dealers and it was a good one, but it didn't have any levers. It was not adjustable. It was wooden, which naturally in time, exposed to the weather and elements, would soon give out and warp out of place. I sold these harrows at wholesale to dealers at $1.00 per foot. I am now selling my new Galloway All Steel Flexible Harrow direct to the farmer for less money than they used to pay for the old style wooden harrows.

Some Special Features

On account of its flexibility, the teeth of this harrow go down into the hollow places, follow close to the ground, go into all the low places and over the ridges without skipping a foot of space. Each section and each bar is entirely independent of the other; no side motion, no danger of one section riding on the other. With the teeth slanting back, this harrow is ready for corn stalk ground, smoothing or weeding grain ground, etc. When teeth are straight up it is ready for pulverizing fall plowing, and on account of the oscillating movement the teeth dig and tear up the ground similar to a cultivator.

Harrow Prices F.O.B. Waterloo and Kansas City

N5065—2 Section Harrow (80 teeth); Width, 11 cut ft.; Weight, 198 lbs.; price..... **$11.00**

N5066—3 Section Harrow (120 teeth); Width, 16½ cut ft.; Weight, 305 lbs.; price..... **$16.50**

N5067—4 Section Harrow (160 teeth): Width, 22 cut ft.; Weight, 432 lbs.; price..... **$22.00**

Special Combination Prices

If you order one of these New Harrow Carts and New All Steel Flexible Lever Harrows together, we will make you the following special combination prices F. O. B. Waterloo factory or Kansas City.

N1868—30-in. Cart and 2-section Harrow....**$16.25**
N1869—30-in. Cart and 3-section Harrow.... **21.60**
N1870—30-in. Cart and 4-section Harrow.. **26.95**
N1878—38-in. Cart and 2-section Harrow.... **16.75**
N1879—38-in. Cart and 3-section Harrow.... **22.00**
N1880—38-in. Cart and 4-section Harrow.... **27.45**

I would like to see one of these High Wheel Harrow Carts and All Steel Flexible Lever Harrows on every farm in this country. You can safely order direct from this announcement, or if you prefer I will send you

Galloway's Big Bargain Book FREE

Shows not only full descriptions of my Harrow Carts and All Steel Harrow, but also over 1,000 other wonderful bargains in everything for farm, home and family use. Send for your copy of this book. It is FREE. A postal card brings it at once. Write today. Address: 331

WM. GALLOWAY, Pres., Wm. Galloway Co., 107 Galloway Station, Waterloo, Iowa

Pull on Dry Comfort

They'll look good to you after you buy them—these Century Boots. What a warm, dry welcome your feet will get! There's a lot of unseen value in Century boots that is genuine foot comfort. They are made of long wearing rubber from heel to pull straps; strengthened and reinforced at every possible point. Foresight in our shop has so perfected the

BEACON FALLS

LOOK FOR THE CROSS

CENTURY RUBBER BOOT

that we challenge any maker to excel it. This interests you—it convinces you that when a Century protects your feet it is also protecting your pocketbook. The "Kolrib" is the same boot with ribs on top and extra reinforced ankle. Both are tigers for wear. Snag-defying pure gum soles and heels; toe and sides of best rubber and strong duck make them battleship boots for wear in damp, wet situations. Remember they embrace "all" that you hope for in rubber boots. Look for the "Cross". If your dealer hasn't them, write us his name and we'll see that you're supplied. Write for booklet No. 10.

Beacon Falls Rubber Shoe Co., Beacon Falls, Ct.
NEW YORK CHICAGO BOSTON
106 Duane St. 306 W. Monroe St. 241 Cong. St.

APPLETON

RETURN APRON ENDLESS APRON AND LOW DOWN

MANURE SPREADER

Solid oak, trussed frame; worm and worm gear apron drive, encased, runs in oil; wood or steel wheels.

So simple a boy can run them. Apron works over chilled rollers. Wide seat, comfortable foot rest.

Appleton Manure Spreaders always give long service; spread even, pull easy; because they are perfectly designed and honestly constructed. An Appleton Manure Spreader is a profitable machine for you to buy. Its use keeps your land healthy and in highest productive condition—that means paying crops. Write today for Free Catalog illustrating and describing our 10 styles.

A complete line of machines in stock in your territory.

APPLETON MANUFACTURING CO., 239 Fargo St., Batavia, Ill.

BUY HARNESS FROM MAKER—SAVE 1/3 TO 1/2

We Pay Freight

You not only save one-third to one-half when you buy Harness from us, but you get the best Harness in the world; made by expert harness makers, in a splendidly equipped shop, from the best materials money can buy. Every Harness built on honor and sold direct with but one small profit between maker and user. Get our big Harness Book before you buy. Free—Send today. H. & M. Harness Shop, 76 Ill. Av., So. St. Joseph, Mo.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

GUARANTEED FOR 10 YEARS — CENTURY MFG. COS. — **PAINT** — FREIGHT PAID

Century House Paint, made in all colors; in 1 gallon cans; only $1.20 per gallon.
Century Barn and Roof Paint, Red, Gray, or Green, 1 gallon cans only 65c per gallon.
Freight paid on 6 gals. or more to any station east of Rocky Mountains, except N. & S. Dak Col., N. Mex., Tex., Okla., Miss., Ala., La., Ga., and Fla. Delivered FREE to these states for 5c per gallon additional. **These prices guaranteed for 4 weeks only—order now.** Satisfaction guaranteed or money refunded. **Century ready mixed paint looks best lasts longest.**
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Century Mfg. Co., Dept. 208 E. St. Louis, Ill. or Dept. 208 132 N. Wabash Ave., Chicago, Ill.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 3, 1913.

One Year of the Farm Adviser

What Pettis County, Mo., Has Accomplished in Less Than Twelve Months Under the Leadership of "Sam" Jordan and How the Record Serves as an Inspiration to the Entire Grain Belt.

SIX hundred men and women, mainly from the farm, sat down together at banquet tables which literally groaned with good things to eat. At the speakers' table sat the leading jack breeder of the country, a man, who, starting with only a jackknife as his capital, is now the owner of many hundreds of acres of fertile Missouri land and herds unsurpassed in the country. By his side sat a slight, semi-deaf man, fifty years of age, born in a log cabin in Missouri, who has come to be recognized as the seed corn expert of a great state, who interested 7,000 boys in a state-wide corn growing contest, who has left a field, the bounds of which were the confines of the state, to devote all his time and energy to one single county, realizing that the state-wide and nation-wide wealth depend upon individual efforts and success. With these two men sat the former immigration commissioner of the state, now a specialist in the gentle art of boosting, who is devoting his time and energy to exploiting to the world the advantages of the county and town in which he lives. The occasion was the first annual "Get-Together" meeting and banquet of the Pettis county, Missouri, Bureau of Agriculture. The three men were Louis Monsees, Prof. S. M. Jordan (better known as Sam Jordan, Missouri seed corn man) and M. V. Carroll, secretary of the Sedalia Booster Club.

"SAM" JORDAN ADDRESSING A DISTRICT TEACHERS' MEETING INTERESTING ALL IN THE GREATER POSSIBILITIES OF THE RURAL SCHOOL.

With approximately 100 counties in the country taking advantage of the opportunity to employ a farm adviser and with no less than nine counties in the state of Missouri alone carrying on this new work, the credit of being the first county to take up the movement unaided, and to go farther than any other county in the work accomplished, belongs to Pettis county, Missouri. It is less than twelve months since Professor Jordan was induced temporarily to leave his post at the state college of agriculture and devote all his time and energy to solving the multitude of problems which beset the rank and file of the farmers of Pettis county, but in that short length of time miracles have been accomplished. With such a start, in so short a length of time, it is not absurd to predict that Pettis county will set the pace not only for all of Missouri, but for the greater part of the grain belt. At any rate the work which has been done stands as an object lesson for the emulation of other counties. Given the proper amount of enthusiasm and the necessary working fund, what has been accomplished by Sam Jordan in Pettis county may be duplicated in other counties of the grain belt.

It was at a farmers' institute held in Sedalia in March, 1912, that the movement was inaugurated. After hearing addresses by the institute lecturers sent out from Columbia, the question was asked, "Why not have these men for all the year instead of for a single day?" The conference which followed this question had not adjourned before the proposal was put point blank to Professor Jordan to leave his state field and concentrate his efforts in the one county. The matter was taken under consideration and when the details of salary had been arranged the contract was closed and work immediately begun. The fund with which to pay Professor Jordan his salary o $3,000 a year and the necessary running expenses was raised altogether, at first, without state or government aid. The county court, under the authority of the Nelson law, appropriated $1,500. The city school board, realizing that on the prosperity of the farmers depends the prosperity and the good work of the schools, met the situation by an appropriation of $600 a year, in return for which Professor Jordan gives two lectures each week on agriculture in the Sedalia high school. The balance of the fund was raised by private subscription from farmers and business men. Subsequently it was discovered that $1,000 a year aid could be had from the Crop Improvement Committee of the American Grain Exchanges, at Chicago, but the credit for starting the work unaided by outside money belongs altogether to the Pettis County Bureau.

One had only to engage any of the banqueters at Sedalia in conversation to find ample proof of the excellent work done the first year and of the value of the new movement. Two days of each week (Saturday and Monday) are office days with the farm adviser, but the balance of each week is spent by him in active field inspection and demonstration. The farm adviser, who, like Sam Jordan, is able to mix and to give good practical advice, finds his time well occupied. Visiting farms was the first call upon Professor Jordan and it was but a short time until his every hour was booked more than thirty days in advance. The short visits were ordinarily occupied in soil tests, the selection of experimental spots for the growing of alfalfa (in which Pettis county farmers are greatly interested), the location of the silo, the planning of the barn, the treatment of an orchard, the selection of additions to the herd, practical advice on the treatment of smut in oats or whether a crop of weeds had better be burned or plowed under, proper location for a well, testing of grain and grass seeds, advice upon practical farming and a hundred and one other matters of importance to the individual farmer and upon which his ultimate success or failure may depend. From these preliminary, casual visits grew the wider campaign for rallies and neighborhood meetings at the homes of the various farmers, with notice in advance so that all might attend ready to ask questions, to submit samples of grains and weeds and secure the greatest possible help from the farm adviser. As Professor Jordan remarks: "There is no limit to what can be done, the man's capacity is the measure." No better idea of what has been done in the past year in Pettis county, or what may confidently be expected in the future, can be had than from this report of Professor Jordan on the results of his first year's work:

"We found the soil acid, and means are being taken to treat all soils where alfalfa is expected to grow. The Bureau secured inquiries from twelve different states from apple buyers, and our farmers found a market for all marketable stuff. We found that buyers of clover and alfalfa seed

PETTIS COUNTY HAS REVIVED THE OLD STYLE HUSKING BEE, ADDING ANOTHER SOCIAL FACTOR TO THE ENJOYMENT OF EVERYBODY.

(Continued on page 30.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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PUBLISHED EVERY THURSDAY

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Address all communications and business letters to
THE HOMESTEAD COMPANY,
Des Moines, Iowa

THE MESSAGE OF THE STORMS.

In common with thousands of others, my heart has been touched during the past week by the suffering wrought by unprecedented storms. Death has ridden on the wind and the wave. The heavy hand of sorrow has been laid upon the farmers of the grain belt and of the Ohio valley. Strong men have broken down in despair as they saw their loved ones torn from them. In the bereft farm homes women have stretched forth empty arms in the night or crooned over lifeless forms in mad despair and futile hope. Children have been launched on the world parentless, crying for food and drink, where plenty reigned in the granary of the world but the day before. The lamentations of stricken families have sounded above the moan of the wind and the roar of the waters. All this has touched my heart as has nothing in many years past.

In the misery and loss of the past week the farmer has sustained a large part. The week opened with a death-dealing cyclone which devastated portions of the choicest farming country in eastern Nebraska and western Iowa, tore its way eastward and southward, leaving destruction in its wake in the richest agricultural sections of central Illinois and southern Missouri. The day following, when it seemed to us who had been miraculously spared, as though nothing worse could possibly happen, torrential rains accompanied by the bursting of straining dikes, levees and reservoirs loosened a flood of angry waters which rushed over fertile fields, bustling towns and thriving cities throughout Ohio and Indiana. Our hearts bled as we read the awful tales of thousands upon thousands of men, women and children, on the farms and in the cities, crying for food and drink, shivering as the blasts of bitter weather whipped their light covering to shreds, shutting their eyes and stopping their ears to the sights and sounds of desolation settling down upon whole states. Herds were scattered and drowned, farm houses disappeared in the swirling floods as the angry waters poured with whirlwind speed over farms which had been the pride and glory of the state and nation but the day before. As one story followed another, the awful tale gathering intensity as it proceeded, the week brought to me such mingled emotions of sorrow and sympathy as no other disaster of recent years has occasioned. There were many I loved and held most dear imperiled by the angry waters; farmers in whose homes I had visited; men whom I loved as brothers; little children in whose future I had planned; in the twinkling of an eye their lives were at stake in the maelstrom of the storm.

It has been a week when no man knew what horror the next moment might disclose. It has been a week, however, when there flowed through the land a stream which cannot be dammed, a stream deep as life itself, broad as all human endeavor, a stream full of the life-giving milk of human kindness. If it has been a week of misery, it has been likewise a week of charity, of the tearing down of the frowning walls of reserve, of the burning away of all barriers, of the opening of hearts to that greatest of all impulses: Brotherly love. Those who have escaped the visitations of death have given of their store freely. Even those who have suffered have divided their little hoard of supplies, that all might be nourished. Across swollen floods and places laid bare and waste by the winds men have clasped hands and gone forth, with uplifted heads and shining faces, to rebuild that which had been destroyed, to succor the helpless, comfort the fallen and sustain the stricken. Not in many years has there been such visible manifestation of the brotherliness of Americans, the common impulse to lend a helping hand to the weak and needy.

To the farmer mourning for his lost home and herds, crazed by the knowledge that loved ones have perished or maddened by the uncertainty of fearful suspense, there is little that we who were spared can say or do to alleviate his anguish. And yet my heart is so full that I must need find relief by giving what articulation I can to my sorrow and sympathy. I want every stricken farmer to know that there is not a moment of his suffering when the great heart of humanity has not sorrowed with him; that there is not a pain which has not brought a responsive tug at the heart-strings of the more fortunate who have escaped; that there is not a tear which has not transmuted the baser metal of some man's heart into the refined gold of friendship and sympathy. I want him to remember that while in the midst of life we are in death, still throughout all of death there is life everlasting. The message of the floods and the storms is just this: In the twinkling of an eye prosperity and happiness may be transformed into adversity and sorrow, but when trouble comes the hand of fellowship and the solace of loving assistance come, too; men are brought closer together, for the common good in the future, through suffering and sorrow; and the day is brought that much nearer when, as the poet sang:

The war drum throbbed no longer and
the battle flags were furled
In the Parliament of Man, the Federation of the World.

In the anticipation of such a day we clasp hands with the bereaved and march on together toward the better, bigger, braver life, just over the next hilltop.

JAMES M. PIERCE,
Publisher The Iowa Homestead.

THE PASTURES NEED ATTENTION

Those who have had an opportunity to study agriculture in European countries are quick to observe the great difference in the productiveness of pastures in those countries and the grass lands, for example, of the corn belt. With conditions no more favorable for the growth of clovers and grasses than they are here it is not an uncommon thing to find the acre carrying even three times the amount of live stock that the average farmer here is able to maintain. It is therefore high time that some attention should be given to increasing productiveness of the pasture land. A Kansas subscriber who claims that he has given some thought to this matter writes as follows:

Our pastures do not afford over 40 or 50 per cent of the grass that they are capable of supplying. In other words, one-half the land now in pasture, properly cared for, would support as much stock as our pastures now afford. The case might be stated—"One-half our pasture land is wasted." The price of land and live stock are so high that it seems that our pastures ought to be so handled as to cause the growth of as much grass as possible, so that in turn we could raise as much stock as the land will support. Until we are doing this we cannot claim to be farming extensively. This is the year to begin favoring farming our pastures. There are many bare spots in the pastures where grass would do well, were it only started. These spots will grow weeds if you do nothing for it. In fact, this is the reason why weeds are such a pest in our pastures—every rich spot that is not growing grass will produce a large growth of weeds. The farmer will never free his pastures from weeds until he systematically farms his pastures.

Get grass seed best suited to your local conditions, and scatter over the thin and bare places. Thoroughly disk all the pastures as soon as possible in the spring after the frost leaves the ground. Set the disks so as to cut the sod and the sod-bound roots will be torn apart and distributed more evenly over the pasture. The lumps of manure will be reduced and scattered so as to be more available.

This disking will cover the grass seed you have sown and it will grow. Disking will aerate the soil, sunlight and air will penetrate the soil, and the grass will respond quickly. If time permits, disk the ground the second time, going in the opposite direction, following up with a smoothing harrow.

Keep the stock off the soil until the moisture has settled and the grass has well started. Up to this time the grass has little feeding value and much harm is done the pastures by the tramping of stock.

By following the above the grass in the pasture will easily be doubled. The writer has tried this for years, and considers it the cheapest method of getting all the grass the land can afford. If the weeds come on, cut them before the seeds ripen, and in a few years you will have a "reasonably clean" pasture, that furnishes much grass and live stock. Manure scattered thinly on the pastures when you cannot get into the fields is also good for the grass.

Not only should attention be given to the bare spots in pasture lands, but we must realize the fact that even when there is a good stand of grass the amount of pasturage furnished is frequently insufficient to make the grass land really profitable. They need cutting up with the disk also because the surface sod is apt to become root bound. So much the better if a little clover seed can be scattered previous to disking. This will add variety to the pasture and as the clover roots decay the surface soil will be enriched. Where the disk is used the work should be done early in the spring before the soil gets too firm, otherwise but little can be accomplished by one or two diskings. No matter how sharp the disk may be nor how much the surface is torn up there need be no fear about killing the grass and as a matter of fact that is just the kind of treatment that is needed on many of our pastures to thicken them up and to stimulate a new growth.

J. PIERPONT MORGAN DIES

J. Pierpont Morgan, one of the wealthiest men America has ever produced and quite generally recognized as the financial dictator of this country for some years past, died in Rome, Italy, last Monday afternoon, in his seventy-sixth year. The immense power which he wielded may be somewhat realized when it is stated that at one time he is said to have controlled eight billion dollars. Other men in the world's history have been richer, but it is doubtful if any man was ever the manipulator of so fabulous a sum, for Mr. Morgan not only controlled his own finances, but was the head of a powerful body or clique of financiers on whose word and will the great rulers of the world waited. In addition to being a master financier and captain of industry, Mr. Morgan was a patron of the finer arts, his collection of paintings, rare pieces of statuary and other relics being one of the most valuable in the world. In the midst of that which was to him the greatest of all games, the making of money, he found time to cultivate the finer graces and enrich the less fortunate by gathering together the world's masterpieces of art and literature.

During his lifetime Mr. Morgan was a much-maligned man. It was the penalty of his phenomenal success. That he deserved great measure of success for saving the country from the impending panic in 1907 is not to be denied. It was the farmer's money in the small banks of the middle West, the grain belt, which poured into New York and held back the panic that was crashing down upon the nation, but it was the confidence which Pierpont Morgan inspired and the genius which he manifested in critical times which made this yellow flood of gold from the middle West so effective. Mr. Morgan's greatest feat, so far as the general public is concerned, was the successful organization of the United States Steel Corporation. He was a financial giant, starting life with the advantage of a large inherited fortune, amounting to many millions. That American finance and commerce are in a splendidly sound and secure condition today was evidenced by the fact that the stock market was but slightly affected by his death.

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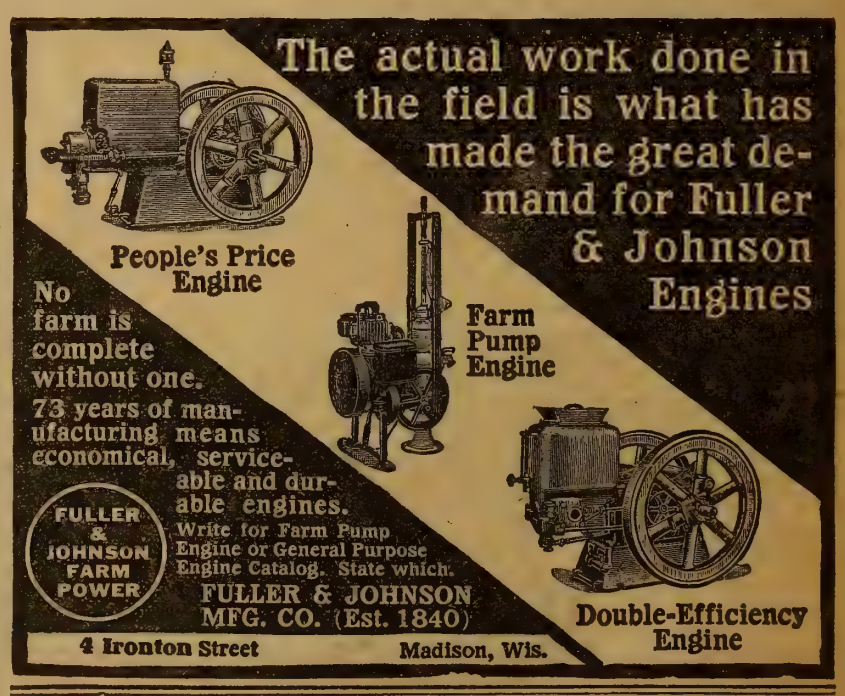
A SPLENDID timekeeper for any one, stem wind and stem set, finished in either nickel or gunmetal. Guaranteed and sent on approval to any address for only $1.50 postpaid. S. W. Harr, Watch Department, Riverside, Iowa.



INCREASING THE CATTLE SUPPLY BY LEGISLATION.

The Central Short-horn Breeders' Association has recently petitioned the Missouri legislature to prevent the enactment of a law which proposes to prohibit the slaughter of heifer calves for a given number of years. It seems that an act of this character was first introduced in the Indiana legislature after being adopted by the National Live Stock Exchange at the June meeting of 1912.

In the petition referred to this act is denounced as an infringement on the right of the producer to realize gain from honest and legitimate toil, that the state which proposes to encourage thrift and the creation of wealth cannot consistently at the same time prohibit by legislation the full fruition of labor. In other words, it is contended in this petition that the state has no right to compel the farmer to hold his female produce any more than it has the authority to force him to sell any farm produce at any specified time.

It is pointed out that an act of this character if it became a law would be a distinct hardship on the farmer. In cases where there is a limited supply of capital it is often necessary to realize quickly on live stock in order to meet urgent needs and therefore the law should in no sense, according to this petition, restrict the farmer in the exercise of his own free will. It is pointed out that instead of increasing the supply at some future period this act would work in the very opposite direction by restricting breeding operations.

A law of this character if enforced would result in withholding 35 per cent of the present beef supply from consumptive channels because this percentage of the animals marketed at the present time are females. The motive of the national organization of commission men which is behind the movement to prevent the slaughter of female cattle is impugned by this organization of Short-horn breeders, it being pointed out that it is an ill-timed attempt to augment the income of the members of the commission at the central markets, but that as a matter of fact the practical result of this kind of legislation, would it is claimed, as stated before, reduce the number of cattle and in the meantime work an untold hardship on producer.

THICKENING THE STAND OF ALFALFA

Sympathy will not help an alfalfa crop, but we do sympathize with the man who is struggling to thicken up a thin stand of alfalfa. One of our subscribers, Mr. Henry Saak, is in the throes at the present time and he asks for information that will help him out of his wilderness of difficulty. In this case the crop was seeded last fall and it is about half a stand, though the plants that are there do not appear vigorous. The problem therefore is to know whether to plow up the crop and start over again or, on the other hand, is it practicable to supplement the stand that is already there?

We are not very favorably inclined to the practice of supplementing a thin alfalfa crop. In this case, however, the alfalfa has been newly seeded and the difficulty is not so great as if it were an old alfalfa field that had to be dealt with. Where a good half stand exists we believe that it is a safe speculation to add six or seven pounds of seed per acre early this spring, at which time the surface should be freely harrowed. The harrowing will do no harm to the plants that are already there and, on the other hand, it will cover these seed, thereby making it possible for the crop to start quickly.

The one risk that must be run in carrying out this plan is due to the fact that annual weed seeds will take possession of the ground that should be occupied by the newly seeded alfalfa. However, if the ground is fairly clean there may not be much opposition, in which case there is every reason to believe that the plan outlined will result in making a fairly good stand.

In the case of an old alfalfa field that is gradually growing bald, as it were, the best plan in the long run is to plow it up, trusting to the old alfalfa as having inoculated the soil and try it all over again, making doubly sure that the seed bed is well prepared, that the seed is good and that it is sown early enough in the fall to insure a good growth before the ground freezes.

THE FARMERS' PUBLIC LAUNDRY A SUCCESS.

That co-operation is right in principle in many farm affairs is again attested to by the success that has been attained in the operation of a co-operative laundry. A Minnesota institution, although it has been running but three months, has during that time relieved the households of this arduous task at a cost of less than one dollar per family per week.

The plan has been carried out in connection with the Chatfield Co-operative Creamery. Profits in this concern were allowed to accumulate until the sum of $2,000 was available in the fall of 1912. Farmer and village folks to the number of 224 families agreed to have their washing done at the new laundry and to carry out the project $2,500 of stock was subscribed in amounts varying from $5 to $25. At a cost of $4,500 a building was erected and equipment installed so that the amount of stock taken together with the $2,000 on hand meant that a beginning was made free of debt. One boiler supplied heat, power and steam and the exhaust from the engine used in the drying room. In addition to the superintendent five persons are employed at wages ranging from fifteen to twenty cents per hour. The basis for fixing prices for laundry work is five cents per pound, this sum being charged for rough dried, flat work and underwear, while ironing is charged at fifteen cents an hour. It has been found after the end of a three months' period that the laundry of village folks amounted to 90.7 cents per family and for farmers 97.9 cents a week. We cannot see why the principle involved in this is not sound. Farm laundry work even with the best of equipment involves the heaviest kind of toil. It is seldom possible for one person to complete the task in a day. On an average we believe that it would require at least two days for one person so that on a basis of $1 per week for having labor done outside the home a real economy is effected, saying nothing of the conservation of strength that it means for those on whom housekeeping duties already sit none too lightly.

We are pleased to pass the word along as to the success the plan has attained in Minnesota, hoping that the plan may be ultimately worked out in those localities where the co-operative principle meets the practical endorsement of the people.

HARROWING THE NEW MEADOW

Throughout a considerable part of the corn belt conditions for new meadows have been reasonably favorable during the winter months. Where the growth was thick last fall there is every indication at the present time that no supplementary seed will be required. In those cases where the meadows are thin it might be difficult in some cases to determine whether they should be plowed up or a little additional seed used. Timothy seed is relatively cheap and because of this where there is doubt about the stand being sufficient to make a good crop the sowing of a quart or two of timothy is to be strongly recommended.

Whether any seed is used or not there are many meadows that can be harrowed to very great advantage. The crust that is always left on the surface after the period of frosts is more or less unfavorable to rapid growth and to the spread of such plants as have previously been established. For this reason one or two harrowings will have an exceedingly beneficial effect. The breaking up of the crust will tend to aerate the soil thus making conditions more favorable for the rapid development of the clover and timothy plants. It will conserve moisture and this of itself will more than justify the expenditure of the amount of labor required in case the spring should be a dry one.

Good sense must be used in adjusting the harrow and the condition of the soil must decide whether the teeth are to be run straight or slanting backwards. In any case the aim should be to produce a light mulch without unduly tearing out the clover or grass plants. This work should not be done while the soil is soft because more harm than good can be accomplished when the horses sink in above their fetlocks. As a matter of fact harrowing should not be done at all until the soil is firm enough so that no damage whatever results from tramping.

NOT RESPONSIBLE FOR PRICES.

Proof positive that it is the distributer or middleman who is responsible for the high price of farm products when they sell in the city, rather than the farmer, is found in the result of a canvass made on the milk situation in Rochester, New York. It was found not only that the large number of rival milk wagons made the city consumer pay a price altogether out of reason when the sum which the farmer receives is considered, but also that the unnecessary duplication of milk wagons was responsible for the impure quality of milk served. Here is the result as told by a writer in a recent magazine:

Altogether too many dealers are engaged in distributing milk, with the results that twice as much money and twice as many men and horses and wagons as are necessary are employed to perform this service. Of course, these facts mean that the dealers get less than a fair profit and cannot, therefore, be overly nice in the care and quality of their product. And they mean, too, that the consumers pay more than a fair price for milk—of an inferior grade.

For example, I found that in a section in which the most inhabitants were negroes, twenty-three distributors were traveling twenty miles daily to supply 165 homes which could be supplied by one distributor traveling only two miles. On an average, in each of four sections of American workingmen, forty-seven distributors were traveling thirty-eight miles to 431 homes, in every case a waste of more than forty men's work and twenty-five miles of travel. In each of four districts of foreign workingmen, forty-nine distributors were traveling thirty-seven miles to serve 317 homes which one dealer could supply in two and one-half miles of travel. Twenty-six distributors were traveling forty-eight miles to supply 443 homes of middle-class Americans, though one man could have performed the same service by traveling two and one-half miles. In each of five sections of well-to-do homes, twenty-three distributors were traveling twenty-two miles to perform a single distributor's service of traveling a little more than two miles to 173 homes.

A similar canvass is being undertaken in one of the large cities of the grain belt, with the prospects good of similar results. Nothing could more conclusively prove that the farmer is not responsible for the high price of living. The farmer receives approximately one cent out of every five paid by the consumer for a loaf of bread and yet the price of wheat is talked about as being one of the prime factors in the increase of living expenses in most of our cities. The fact is that the farmer can prove an alibi easily when it comes to an indictment for the present economic tendency of the times, but the middleman and the city distributor could not possibly escape so easily.

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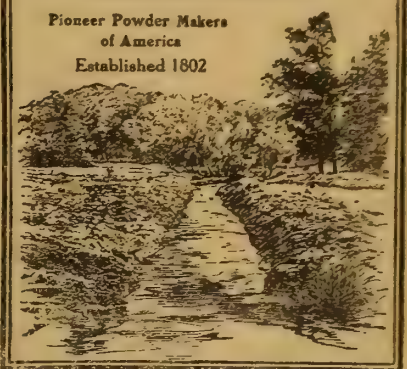

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FARMERS MUTUAL HAIL INSURANCE ASSOCIATION OF IOWA

We have repeatedly called attention to this organization and pointed to its splendid success in protecting the crops of its members from loss by hailstorms.

The first of January when the annual statement was filed with the Auditor of State this association had in force seven and three-fourths millions of dollars of insurance and cash in its treasury to the amount of $101,255.48. This splendid showing was made with an assessment of only $18.00 for a thousand dollars of insurance which is less than half of the stock rate.

The terrible Tornado and Hailstorms which have occurred in Iowa and adjoining states the past few days serve to emphasize the need of this kind of protection and call attention to this company. When solicited to take hail insurance if the literature shown you has the hailstorm cut on each piece and if it is at the top of the application you have the right company and need not hestitate. This company carries out its contracts and pays all its losses in full and liberally.

It stands out as an example of successful co-operation among farmers and should be recognized by them as a great help in times of trouble and misfortune. We do not hestitate to ask you to go fully into the record of this association as we are sure you will find everything right and the greatest list of losses paid of any association in the state.

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FREIGHT PAID to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S.D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla. on orders of three rolls or more. Special prices to these States on request.

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

The man who wants to know why his eight-year-old fruit trees do not bear can wrest an exceedingly small amount of reliable information on the subject from me, since I have some of the same kind, and, for the life of me, I don't know why they do not bear fruit.

Provide ample and snug shelter for the early pigs these chilly nights, but plan a sun bath for the little fellows every day. Without open air sunlight, no animal can do its best.

It does beat everything what a lot of things are bought each year with the egg money, to hear some women tell it. I sometimes feel ashamed of "us men" when I hear some of the stories told by certain women regarding the size and amount of their purchases, made wholly with the egg money.

As far as field work was concerned, the wages paid the hired man for the month of March drew very nearly a blank.

A day spent in taking the disk apart and cleaning out the oil holes and boxes with kerosene will mean easier work for the horses and more satisfaction to the driver. Not only the disk, but all the machinery should be thoroughly overhauled before the work season begins.

The idea that seed corn is almost perfect seems to be quite general this year. We hope this is true, but in order to be sure it might be a good plan to test at least a few ears before shelling.

The makers of gas tractors are trying their best to perfect a machine to take the place of the horse and to tell the truth they are doing quite well as far as the machine is concerned, but until a cheap substitute for gasoline can be found the breeder of draft horses does not need to worry much.

Letting things go usually results in folks being unable to make things go.

In this part of the country the single disk grain drill gives the best service because all the small grain is put in on cornstalk ground and very few care to rake and burn the stalks.

The farmer whose cows do not average 150 pounds of butter fat in a year should do some studying to find out whether the cause is with the cows or with the feeding, especially if he is a patron of a creamery and makes dairying a part of his business. Keeping cows at a loss will never build a barn.

Grain cleaners now do their work so well that there is no earthly excuse for planting or sowing a dose of weed seed. The best of us have weeds enough to contend with without sowing more.

A heavy jackknife with a sharp blade is the only tool needed for pruning young apple trees, but with older trees the saw and the pruning hook are sometimes needed. It does not matter much what tool is used, so a clean, smooth job is done.

What are you expecting from the orchard this season? Your efforts in putting it in a productive condition will answer that when the fruit crop is harvested.

A spring sign of a poor horseman: Letting his horses go for days at a time with the mud sticking to them that was splashed there while traveling on the roads or in the fields.

This is a most propitious time in which to brighten up the cultivator shovels, thus making sure that you are ready for the rush work that will swoop down upon us when the corn-plowing season opens up.

Somebody please tell us why a hog should be compelled to eat any filthier feed than the dairy cow or the horse. If no one can do it, most of us could turn a new leaf in the care of our swill barrels from which we feed the hogs.

Go carefully over the nuts and bolts of the carriage occasionally, especially those of the tongue, doubletrees and the shafts, to see that all are tight and in place. This may save you not only damage to the vehicle by their giving way while you are on the road, but it may avert a bad accident.

The well doesn't have to be situated very far from the house to make a walk of several dozen miles in a week for your wife in carrying her supply of water for house use. Measure the distance from the house to the well and you may find it time to provide a better way for the wife to secure her water supply.

Why not buy your haying machinery now? Of course, it's a bit early in the season, but your dealer or catalog house is apt to fall behind in filling orders when the usual rush buying season opens up. Even the factories are apt to be unable to furnish machinery at any price, in which case you might fail entirely to secure what you actually needed with which to carry on your hay harvesting. Again, this scarcity of implements almost invariably causes the price to rise considerably.

This is an ideal month in which to work among the blackberry bushes and raspberry patches. The old canes will be easily removed while the ground still is frozen slightly, and the roots of this season's fruit bushes will not be loosened nor torn up by the work, as is often the case where one waits to do this after the soil becomes wet, spongy and loose.

Winter is not only lingering in the lap of spring, but it seems to hold spring in a tight embrace. The weather prophet who wishes honor in his own county should advance the idea that our seasonal changes have slipped a cog, perhaps two.

Get These Facts Before You Buy a Buggy

Before you buy a buggy you should consider the many points of superiority of

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They are made *IN* the West, *FOR* the West; made extra *strong* to stand the wear and tear of pulling through deep mud and going over bad ruts and bumps.

Kratzer Buggies are made to give years' and years' of hard service. They are built of the very best materials—finest hickory, all wool broadcloth or genuine leather upholstery, flexible Cambria steel springs, etc. Every point of strain is reinforced by drop-forged iron. **Kratzer Buggies** are acknowledged the best, and they are sold at *fair prices* which make them cheapest in the end.

Write now for catalog and further details. If your dealer doesn't carry **Kratzer Buggies** send his name too. A post card will do.

Write Now for Catalog

KRATZER CARRIAGE COMPANY
104 W. First St.
Des Moines, Ia.

Studebaker

How Studebaker Automobiles Are Made

The Final Heart-to-Heart Story.

THROUGH four full page articles which have previously appeared in this paper we have been describing the manufacture of Studebaker automobiles.

From the raw steel we have advanced, step by step, along that wonderful process which builds a Studebaker car. We have told the story in a simple, plain way because it is too big for any other kind of description.

Number of Parts in a Car

Consider for a minute how wonderful an automobile is. Beyond its speed and power, which are familiar to all, there are interesting points seldom recognized. In an average car there are about 1,800 groups of parts, or separate assemblies. There are perhaps 3,000 different parts and, if you count duplicate, some 6,000 separate parts in a finished car. To build this marvelously efficient machine, approximately 50,000 distinct operations are necessary in order that every part shall be fit for its purpose. With such a conception of what an automobile is, it is easier to understand the immense advantage of Studebaker factories, the largest and best automobile plants in the world. When you buy a Studebaker car, you buy not only a high grade car but one which is built with extraordinary efficiency and skill.

The Steel Stamping Mill

A characteristic feature of Studebaker methods is our steel stamping mill. Here are stamped from cold steel plates the hoods, fenders, dust pans, clutch spiders, running board braces, and other light, strong steel parts in Studebaker cars.

The Studebaker Corporation is the only automobile manufacturer that owns and operates its own steel stamping plant. The initial expense was high but the results are profitable because our output is large and the use of strong steel stampings is highly advantageous.

The complete equipment of our stamping mill makes it possible for us not only to put the highest grade stampings into our cars but by the use of special dies we are enabled to make distinctive and attractive designs. The crown shaped fenders on the Studebaker "35" and Studebaker "SIX" are examples. These fenders, up to the present time a feature on foreign cars only, are today being used on Studebaker cars, and one high-priced car alone in the American field. Not a rivet or beading shows along the entire length of these fenders, and the ornamental crown design serves a useful purpose in converging mud thrown against it by the wheels, and serving to prevent the mud from being splashed against the sides of the car.

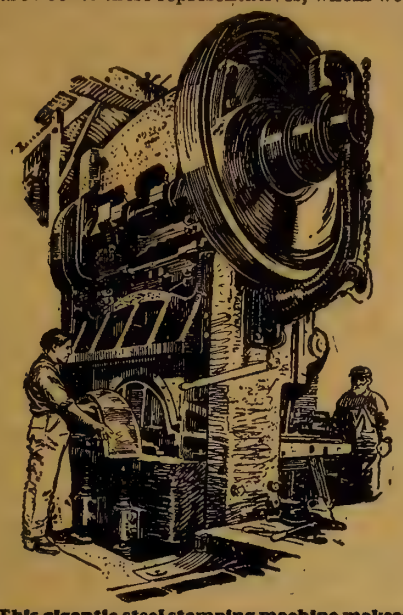
Enameling

Not only do we stamp our own fenders from the sheet steel but the glossy black enamel is baked on them in our own huge ovens. The vibration of many thousands of miles travel will not check or chip off this enameled surface.

It is in such methods as these that the quality of a Studebaker car is unqualifiedly assured, while at the same time costs are brought low.

Studebaker Inspectors

Every buyer of a Studebaker car has his direct representative at the factory. There are 200 of these representatives, whom we



This gigantic steel stamping machine makes it possible to equip Studebaker cars with beautiful fenders.

call inspectors, and it is their duty to see that Studebaker cars are in perfect order before they are shipped. Not a car leaves the factory before one of these men has supplemented all the previous inspections, by a final examination to which the inspector must sign his name. These final inspectors, your representatives, are far more critical than you yourself would be because they are expert automobile men. Their responsibility is to represent you.

A Summary

Let us now summarize the main points of this big, true story of Studebaker manufacture.

The Raw Material

All the iron and steel which enters Studebaker plants is made to our own specifications and thoroughly tested in our laboratories before we use it. These laboratories are wonderfully exhaustive and complete. No university possesses more efficient equipment.

Studebaker Shops

Raw material enters Studebaker manufacture through four main opening channels.

1. The Forge Shop, with 40 hammers, each of which weighs upwards of a ton.
2. The Foundry, where molten iron is cast in exact moulds
3. The Steel Stamping Mill, which presses cold sheet steel into useful forms.
4. The Heat Treating Rooms where 40 cavernous ovens bake and temper every vital steel part as a housewife bakes her bread.

Beyond these are myriads of machines, each for its special purpose, and many accurate within 1-1000th of an inch. We build also our own bodies and tops complete.

Expert Workmen

Ten thousand trained workmen build Studebaker cars. They are each skilled in special tasks.

Engineers

Back of the factories are a staff of engineers who are constantly at work testing out new methods and insuring the full value of Studebaker cars. They prescribe wide margins of safety in the specifications of every part.

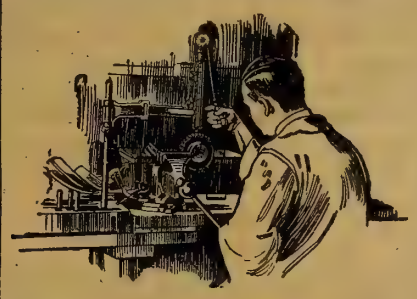
Purchasing Agents

Through its immense buying power The Studebaker organization purchases material at rock bottom cost. Where a small manufacturer buys in the thousands we buy in the millions. All this saving is represented in the price of Studebaker cars.

And now after we have referred to material, plants and workmen, there are three salient facts we hope will linger in your memory.

First—Manufacture

Studebaker quantity manufacture makes it possible to manufacture a better car for less money than can possibly be done in any other way. Studebaker cars are



The Scleroscope test where the hardness of metal is perfectly measured—it is one of the many tests that Studebaker parts must measure up to.

built complete in the largest and best factories in the industry. They are wonderfully good cars at unequaled prices.

Second—Service

Studebaker service is generous and exceedingly effective. In 30 branches all over the United States and with hundreds of Studebaker dealers, repairs parts stations are constantly maintained for the convenience of owners. The original Studebaker guarantee is liberally interpreted and every attention is given Studebaker owners by our dealers. If in time a repair part should be necessary it can always, no matter how old the car, be quickly obtained at a most moderate cost. A Studebaker car could be purchased by parts and assembled at only the price of the car plus a small percentage for extra expense in handling. In other words, when you buy a Studebaker you are sure of long-continued service and good treatment.

Third—Reputation

Back of every Studebaker car, explaining and warranting its quality, stands the name Studebaker. It represents a reputation won over 60 years of successful business and fair dealing. Such a reputation we guard and uphold as a most priceless possession. Today that name is stronger than ever and the man who buys a Studebaker buys sure satisfaction.

In this series of advertisements we have taken you into our confidence. We have talked with you as with old friends. We have a tremendously successful business, but no secrets. If any question should arise in your mind concerning the merit of Studebaker cars, write to us. You will have a full and frank reply.

Most of all we hope that we have gained your confidence. It is confidence and mutual trust, that really makes the world go "round." It is because Studebaker cars are the product of the honest and efficient industry of thousands of skilled men, that we have come to you and told you frankly how Studebaker cars are built.

As long as you are interested in automobiles we want you to be interested in Studebaker cars, and we in turn will reward that interest by continuing to build high grade automobiles at prices no reasonable man can ignore.

As you think about this automobile question remember two things.

1. Studebaker cars are built in the largest and best factories in the industry.
2. The man who deals with Studebaker never makes a mistake.

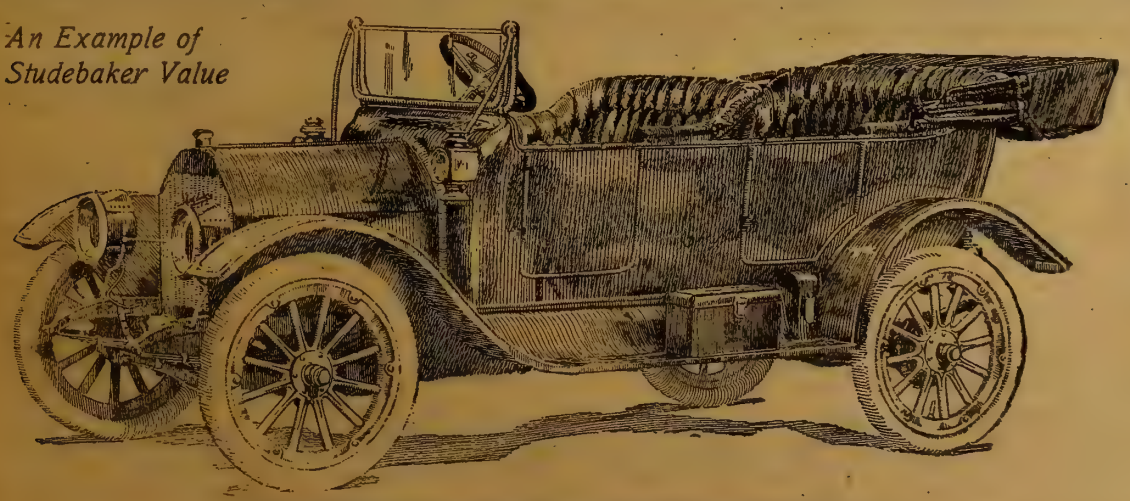
These two axioms sum up all the automobile buying wisdom any one need to know. Remember them today, next summer, next year and whenever the automobile question comes to your mind.

Send for the Proof Book

If you have not already secured our Proof Book, send for it now. It describes more fully than we have been able to do in these articles, how Studebaker automobiles are made, and gives much information valuable to those who are interested in automobiles. We are glad to send it without charge. It is completely illustrated and you will find it well worth your while.

Send the coupon now.

An Example of Studebaker Value



The $885 Studebaker "25" Touring Car.

THREE GREAT CARS

Studebaker "25" Touring Car, $885
5 passenger—Gas primer.

Studebaker "35" Touring Car, $1290
6 passenger—Electric lights, electric self-starter.

Studebaker "Six" Touring Car, $1550
6 passenger—Electric lights, electric self-starter.

All prices; completely equipped f. o. b. Detroit.

The Studebaker Corporation, Detroit, Mich.

TEAR OFF HERE
THE STUDEBAKER CORPORATION, Detroit, Mich.
I am interested. Please send me Studebaker proof book.
Name .....
Address .....
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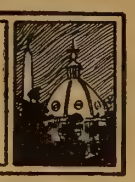
CURRENT EVENTS



TORRENTIAL rains, accompanied by the breaking of levees, dams, and reservoirs, caused the most disastrous floods of years in the Miami, Wabash and Ohio river valleys in Ohio and Indiana last week. It is impossible at this time definitely to fix the loss, in lives and money, but that the toll of death will mount high in thousands and the monetary loss approximate many millions is inevitable. One of the cities to suffer most severely was Dayton, Ohio, located at the convergence of four rivers, protected against just such catastrophes by heavy dikes, twenty-five feet in height, the city being built below the level of the Miami river. The inability of the dikes to withstand the immense pressure of the angry waters caused Dayton to be submerged under fifteen or twenty feet of water, business districts and residence sections alike suffering. A late dispatch stated that at least 65,000 people were imprisoned in their homes or were homeless in this one city alone. Indianapolis and Peru were two of the principal Indiana points to suffer similar damage, the waters rising in the cities with incredible speed and force, sweeping everything before them. The suffering of the homeless and starving people, with the temperature low and stinging wind and rain prevailing, can be imagined. The calamity is said to have wrought the greatest damage of any flood since Galveston, Texas, was literally swept away by a tidal wave a few years ago. The nation has rallied promptly to the support of the sufferers, sending food, clothing and money, for the American heart is quick to feel the impulse of practical charity and helpful sympathy. Such catastrophes bind the nation together in sorrow and give countless opportunities for showing that love and charity and kindly sympathy are still prominent factors in the American character.

ADRIANOPLE has at last fallen before the terrific assaults of the Balkan allies, the Turkish commander setting fire to the town and surrendering last week, after one of the most stubborn and deadly sieges of history. The victory was won by the allied Bulgarians and Servians and brings so much nearer the impending doom of Turkey-in-Europe. It will be recalled that the sultan absolutely refused to surrender Adrianople when the demand for it was made by the Balkan delegates to the peace conference in London last winter. The Bulgarians proposed to allow the sultan to retain possession of the mosques and holy places of the city, but this compromise was refused and war was resumed. Blizzards and severe winter weather have prevented a general campaign against the Turks, but the assault against Adrianople was persistent and insistent and the fortress was no longer able to hold out. It is also reported that the Turkish outposts at Constantinople have been conquered by the allies, which would indicate that the Turks cannot hold out much longer. The allies demand the surrender of practically all the Turkish territory in Europe and the payment of a heavy war indemnity. It is almost inevitable that the crescent will go down in complete defeat before the cross and the Mohammedans be forced out of Europe completely, unless a peace compromise is arranged in the very near future.

TARIFF revision will come up for immediate consideration upon the convening of congress the first of next week. President Wilson has been in conference with house and senate leaders for some days past and hopes to have the party plans so well formulated that but little time will be lost in agreeing upon bills. The president proposes to keep in close touch with congress and to this end will be a frequent visitor to the capitol, preferring this method rather than to hold himself aloof and possibly undo the work of weeks by vetoing a bill which does not meet his personal ideas or which he does not think fully measures up to the platform pledges. It is known that the president is desirous of securing currency reform at the special session, but no matters other than tariff revision will come up in the early weeks of the session. With the investigation already made by the ways and means committee of the house, under the direction of Representative Underwood, it is confidently expected that sufficient headway has been made to insure the early report of bills on which the house, at least, can agree. That the situation in the senate will be critical, however, is conceded. President Wilson has taken time by the forelock by calling in consultation a number of progressive senators, notable in the list being La Follette, of Wisconsin, who visited the White House for the first time in three years. The democrats have a slight majority in the senate, but unless they are able to hold party lines intact there will be difficulty in getting bills through without progressive support. The session promises to be one of the most important that congress has held in many years.

JAMES HAMILTON LEWIS, democrat, and Lawrence Y. Sherman, republican, were elected United States senators from Illinois last week. The election was a compromise between the two parties, which had been deadlocked on the senatorial issue for six weeks. Senator Lewis draws the full six-year term beginning March 4, 1913, and Senator Sherman fills out the two years remaining of the term to which Senator Lorimer was elected, but from which he was deposed by his fellow senators. Both of the new senators have long been prominent in their party councils. Senator Lewis was born in Virginia and has served in congress as a representative from the state of Washington. He is a brilliant orator and wit and is expected to make himself a conspicuous member of the upper house of congress. Senator Sherman was born in Ohio and spent his boyhood on a farm. He served in the Illinois legislature, was speaker of the house and finally elected lieutenant governor. He was a candidate for the long term against Lewis, who had won the fight at the party primary, but finally made the proposition to throw the necessary republican votes to insure the election of Lewis if the democrats would give him the short term. Illinois has been unrepresented in the senate since the deposition of Lorimer and the death of Cullom, but now has its full quota again. The election was not brought about without much bitterness and bids fair to make itself felt the remainder of the legislative session and for some time to come in the ranks of all three of the big parties in the state.

THE toll of death in the Nebraska and Iowa cyclones of ten days ago was heavy. The latest figures place the number of lives lost in Omaha at 200, while fully a third more were snuffed out in adjacent Nebraska and Iowa places. The severe wind likewise caused great life and property loss in Illinois (six lives were lost in Chicago alone), and Missouri, Poplar Bluff suffering severely.

(Continued on page 19.)

No-Rim-Cut Tires
10% Oversize

Our Average Profit
$2.90 Per Tire

Goodyear tires sell all the way from $15.55 to $104.95, according to size and type.

The most popular type—34 x 4—costs from $32.95 to $37.90, differing with type and treads.

And our average profit last year on all these tires was exactly $2.90 per tire.

Why We Tell You

This is something unusual—this stating of profit.

But the worth of a tire depends, in large part, to what the maker puts into it.

Tires may be made at half our cost, yet the cost per mile is greater.

Tires may be skimped to increase factory profit, but the skimping shows up in your tire bills.

Your object and ours is the lowest cost per mile. And the best way to show you that you get it in Goodyears is to tell you our profit, perhaps.

Low Making Cost

We are by long odds the world's largest tire builders. Our sales this year will doubtless reach $40,000,000. Yet our capital is only $10,000,000, and we have no bonded debt.

That is why a small profit per tire pays us fair returns.

Our mammoth output and modern methods bring making cost down to the minimum. Thus most of our cost goes into materials—into things that count.

Judge for yourself if any tire in the world can offer you greater value.

Note the Result

That's how we give you the uttermost mileage for as little as lesser tires cost.

That's how, at our price, you get tires that can't rim cut—tires 10 per cent over the rated size.

These two features alone, on legions of cars, have cut tire bills right in two.

And that is how Goodyears have come to outsell every other tire in existence.

2,000,000 Sold

Men have put into use, on hundreds of thousands of tires, two million Goodyear tires.

Legions of these cars have odometers. Tire mileage has been closely watched. On countless cars, rival tires have been compared with ours.

Two million Goodyears have been tested in these ways—in ways that can't mislead.

And this is the result:

Goodyear tires rule Tiredom. No other tire compares with them in sales.

As men know them better sales double over and over. Last year's sale exceeded our previous 12 years put together.

Now you know, as we know, that your results won't differ from the rest.

What these tires have proved, two million times over, they are bound to prove to you.

If you want tires that can't rim-cut—oversize tires — tires that cut upkeep down to the minimum—insist on Goodyear No-Rim-Cut tires. It is time you found them out.

GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches in 103 Principal Cities — More Service Stations Than Any Other Tire
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
Main Canadian Office, Toronto, Ont.—Canadian Factory, Bowmanville, Ont.

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

RAILROAD TRACK SCALES.

A Subscriber, Kent, Iowa.—(1) Does the law of Iowa require railroad companies to furnish scales for the use of a shipper of live stock? (2) An old live stock buyer and shipper in our town claims that he owns the stockyards scales and charges me $1 to weigh a car load of stock to ship. Does he own the scales, and has he a right to make such a charge?

Answer.—(1) There is no law specifically requiring railroads to provide track scales for weighing cars of live stock, but the law requires railroad companies to provide and keep suitable facilities for the receiving and handling of any and all kinds of freight at any depot along the line of road, and this provision would probably cover track scales for weighing cars of live stock. The railroad commissioners of the state have power to order such scales if they deem the same to be necessary, and you should apply to them for an order to that effect. (2) We cannot determine from your statement whether the old stock shipper is the owner of the scales at the stock yards or not, and hence do not know whether he had a right to charge you for weighing the car.

LANDLORD AND TENANT—DELIVERY OF RENT.

A Subscriber, Alexander, Iowa.—I rent a farm on shares, the owner getting two-fifths of the crop as rent. The contract calls for free delivery in town? (1) Am I required to pay shelling bill for owner's share? (2) Can the owner compel me to deliver all corn in the ear?

Answer.—(1) If the contract provided that the corn should be delivered shelled, then you will have to pay the bill for shelling, but not otherwise. (2) If no provision was made in the contract as to shelling the corn, the landlord can require you to deliver it in the ear. Such matters as these should be mentioned and provided for in all contracts between landlord and tenant.

OBSTRUCTED ROAD—OPENING FENCES.

An Iowa Subscriber.—(1) Has a mail carrier the right, in order to make his trip, to cut a good woven wire fence and go through a field when the road is drifted full of snow? (2) Under what circumstances has a man the right to cut a good fence and go through a field on account of the road being blocked by snow?

Answer.—(1) If the public road is made impassable or dangerous by reason of drifted snow, the mail carrier has a lawful right to cut the fence and go through adjacent land, around such impassable or dangerous place, doing no more injury than is absolutely necessary. (2) A traveler has no right to leave the road because it is merely bad or out of repair and open a fence and go through an adjacent field, but where a road is obstructed by temporary causes, such as snow, ice, washouts, trees blown across it, and like causes, which render the road impassable or dangerous, a traveler thereon has a lawful right to open fences, and go over adjacent private property around such obstruction, providing he does no more damage than is absolutely necessary.

VERBAL LEASE FOR ONE YEAR—FALL PLOWING.

A Subscriber, Ottosen, Ia.—A rented land to B in 1911 without a lease. In 1912 B, thinking he could have the land for another year, plowed it, but in December A rented the land to C without giving B notice. (1) Who has the right to use the land as tenant? (2) If C has such right can B get compensation for plowing it?

Answer.—(1) A verbal lease of land is good and binding for one year, but no longer. So when the term of one year expired, B should have renewed the contract for another year. The mere fact that he went ahead without such a contract and did fall plowing for another year, would not enable him to hold the place as tenant, after the first year expired, and, therefore, A had a right to rent the land to C and C can hold it as tenant. (2) By rights, B should be paid something for fall plowing, but it is doubtful whether he can recover anything by law.

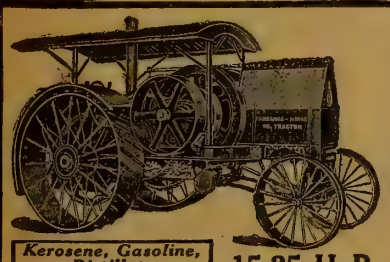
REPAIR OF PUBLIC ROAD.

A Subscriber, Luzerne, Iowa.—There is a public highway in this vicinity that has not been worked for six or seven years, and was traveled by only two or three parties before it became impassable. It will require an expense of $400 or $500 to put this road in good shape for travel. Is the township required to do it, and if so, where will the township get funds to work the balance of the roads in the township?

Answer.—The board of supervisors of the county has general supervision of the public roads, but it is the duty of the township trustees to order and direct the expenditure of the road funds and labor belonging to or owing to the township. The trustees may certify a desire to have an additional levy made for road purposes in the township, and the supervisors may

(Continued on page 25)

Fairbanks-Morse Oil Tractors



Kerosene, Gasoline, Distillate **15-25 H. P.**

The power of 15 horses concentrated in a single machine.

Easily handled—everything that requires the operator's attention in easy reach.

Single Lever Control. This patented feature simplifies handling and makes stripping gears absolutely impossible.

Economical. Develops more than rated power on Kerosene, Gasoline or Distillate.

Engine is our well-known horizontal type, used by farmers everywhere. Simple. Dependable. You can handle it from the start.

Details of construction and actual service records gladly forwarded on request. State size of your farm and general character of soil. Ask for Catalog No. FM 603

Also build 30-60 H. P.

Fairbanks, Morse & Co.
900 S. Wabash Ave., Chicago, Ill.

Starts With Touch of Button—No Cranking Needed

Here's the *dandiest labor saver* ever put on *any* engine. *Eliminates cranking* and *all starting troubles*, insuring a *quick start* in *any* weather. The famous WOODPECKER—known for years. Has over *50 Big Points* of perfection.

Electric Starting WOODPECKER

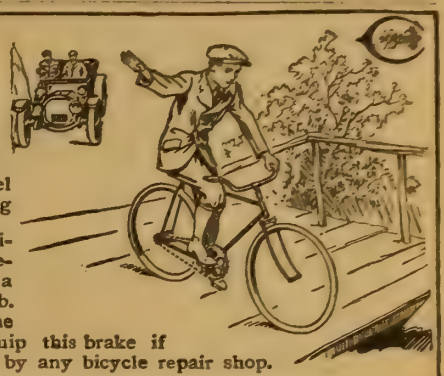
Now equipped with the only perfect and *economical* kerosene fuel carbureter—cuts fuel bills to *rock bottom*. Delivers *big* surplus over rated H. P. Steel Girder sub-base saves cost of fondation.

30 Days' Free Trial, No Money Down
and guaranteed *for life*. Send your name quick for catalog. Don't miss this.

The Middletown Machine Co.
1322 First Street
Middletown, Ohio

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address
HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

To Avoid Accidents
Equip Your Bicycle with the
Corbin Coaster Brake



It gives you complete control of your wheel
You lose none of the pleasures of cycling

The Corbin Duplex Coaster Brake for bicycles is recognized as the standard of Safety, Reliability and Control. Contained in a small and handsomely shaped hub. Operated solely by foot pressure on the pedal. All bicycle manufacturers equip this brake if specified. Can be fitted to your wheel by any bicycle repair shop.

For sale by dealers everywhere. Send for 1913 catalog showing all models.

Corbin Screw Corporation Division 336 High Street New Britain, Conn.
(American Hardware Corporation)
Licensed Coaster Brake Manufacturers

SHINGLE SENSE, Mr. Farmer LUMBER ECONOMY SERIES, No. 5

There is real pleasure in talking "SHINGLE SENSE" to a man of known and demonstrated "HORSE SENSE". The man of "horse sense" has proved what he knows, and he sticks to it. If he hasn't proved the unequalled economic value of **Cypress Shingles**, we hope he will lose no time in doing so, and thus add "shingle sense" to his accomplishments. It is quite the custom in this country to accord a corner on "horse sense" to the farmer man, and we acquiesce in the practice—he has it, all right. Now, if you will but **test out** the **shingle** problem and learn the **truth** about the "benefit eternal" in using **CYPRESS**, "the Wood Eternal" for roofs, you will earn a diploma of graduation in "Shingle Sense", and be big **money in.**

In this house (all CYPRESS) in Sinepuxent, Md., Commodore Decatur was born, January 5, 1779. In 1884 a cyclone left it as photographed above—wrenched and half-denuded, BUT NOT DECAYED. CYPRESS IS EQUAL to an insurance policy against all ordinary Depreciation and Repairs. Cypress *LASTS*. TRY IT.

A Few Elemental Lessons in Shingles:

A SORRY BUNCH is that of the "ornery" scrub shingles you sometimes get when you simply say "shingles." They split in nailing, rot quickly, ooze gum until it drips from the eaves. No good. They may be offered to you, Mr. Farmer, as a *substitute* for Cypress. "The Shingle Eternal."

"KILLED IN THE KILN," is the verdict on many shingles that are shipped a long distance. Baked to death to save freight. They may be offered to you, Mr. Farmer, as a *substitute* for CYPRESS. "The Shingle Eternal." Next time you will know better. INSIST ON CYPRESS.

"A THIN PROPOSITION" applies to shingles that are not of proper thickness at the butt. Look pretty? But they do not last well. They may be offered to you, Mr. Farmer, as a *substitute* for Cypress, "The Shingle Eternal." You'll answer "nothing doing—give me CYPRESS".

COULDN'T SPANK A BOY WITH SOME SHINGLES. Too narrow. They will do for toothpicks, but not to cover your barn or house with. They may be offered to you, Mr. Farmer, as a *substitute* for Cypress. Leave 'em. The alternate soaking and baking that a roof has to stand will cause a very wide shingle to "buck" and then split. There is no help for it. *Moral:* use only *standard width* shingles, 4, 5 or 6 inches wide by 16 inches long. Then be sure you get *CYPRESS* SHINGLES—BECAUSE *"CYPRESS LASTS PRACTICALLY FOREVER."*

REMEMBER, Mr. Farmer, that whereas other shingles are doing extra fine if they last 8 to 10 years, **Cypress Shingles** are officially recorded by the U. S. Govt. as having lasted as long as 228 years. (Refer to Vol. 1, Cypress Pocket Library FREE for a postal. It also includes full list of all the other **36 Volumes.** Every one an authoritative reference work.

Nothing is more annoying to the owner of a new house (or a new roof) than to "turn the water off" onto the ground (when the cistern needs replenishing) for rain after rain until the "newness" wears off the roof. (And some roofs stain the water or make it taste "woody" as long as they last—which with some kinds of shingles needn't be long).

The only alternative to the total loss of good, soft water is to risk the staining of clothes if you wash with it, or the toleration of a "roofy" flavor, that cannot be filtered out, if you try to drink it. **CYPRESS SHINGLES NEITHER STAIN NOR TAINT THE WATER.** They are the only kind that do not. **CYPRESS** shingles—"and no substitutes!"—is the prescription.

DEMAND CYPRESS shingles of your dealer. If he tries to work off a substitute, don't take it. If he does not carry CYPRESS in stock, write us and we will tell you where you can get them.

Cut Out and Ship in the Coupon!

This little "Kitty-Cornered" coupon, if signed by you and sent to *us*, will bring *you* a booklet or two. Vol. 7 is all *about shingles*—a book of "Shingle Sense." Vol. 20. *"Farm Lumber Needs"* is a dandy. JUST ASK.

So. Cypress Mnfrs. Assn.
Hibernia Bank Building
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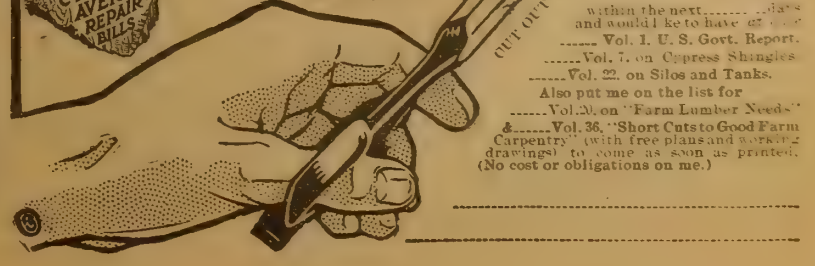
CYPRESS AVERTS REPAIR BILLS



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I expect to build a new
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within the next..... dollars and would like to have on hand
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Also put me on the list for
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& ..... Vol. 36, "Short Cuts to Good Farm Carpentry" (with free plans and working drawings) to come as soon as printed.
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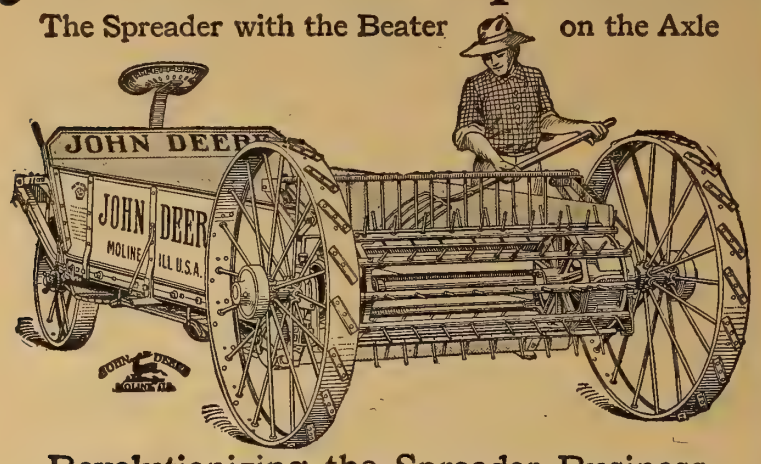
John Deere Spreader

The Spreader with the Beater on the Axle



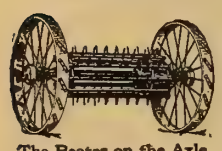
Revolutionizing the Spreader Business

Simplest and Strongest Spreader

On the John Deere Spreader, the Spreader with the Beater on the Axle, two hundred working parts that continually give trouble, are done away with. This spreader is so simple and strong that it does not get out of order. It has no clutches, no chains, no adjustments.

The John Deere Spreader is the greatest improvement in spreaders since their invention. It is as much in advance of ordinary spreaders as the self-binder was over the old reaper.

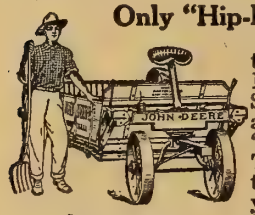
The Beater on the Axle


The Beater on the Axle

Mounting the beater on the axle makes the John Deere Spreader possible. This feature is fully patented. You cannot get it on any other spreader. The beater on the axle does away with all chains and clutches. It puts the strain and stress of spreading on the main axle—where it belongs—not on the sides of the box or the frame of the spreader.

Mounting the beater on the axle makes the John Deere Spreader easy to load—low down.

Only "Hip-High"



Easy to Load

Sides of the John Deere Spreaders are only 'hip-high." The first three feet you lift a fork of manure are easiest of all. From there on to the top of the ordinary spreader is hard work.

You lift manure only three feet with the John Deere Spreader. You always see into the spreader, just where each forkful is needed. Wheels do not interfere with loading.

Few Parts

There are no clutches to get out of order, no chains to give trouble, and no adjustments to be made on the John Deere Spreader. On old style spreaders, ten to twenty adjustments are necessary before they will work at all. Any one of these, wrongly made, might put the spreader out of business.

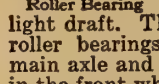
Out of Gear

To start spreading with a John Deere Spreader, move the lever at the driver's right back until the finger or dog meets the large stop at the rear of the machine—there is no clutch.

The John Deere Spreader does not get out of order. It is always ready for use.

Roller Bearings

Roller bearings, few working parts, the center of the load comparatively near the team and the weight distributed over four wheels, make the John Deere Spreader light draft. There are four sets of roller bearings, two between the main axle and the beater, and two in the front wheels.


Roller Bearing

Bridge-Like Construction

The substantial steel frame on John Deere Spreaders has high-carbon structural steel side sills. Like modern railway bridges it is built on the best known principles of steel construction.

Built Like a Steel Bridge

It is securely bolted, insuring rigidity and perfect alignment, even after years of use.

Valuable Spreader Book Free—Get this book at once. It contains reasons for using manure—how to apply it to the land, how to store it, and a description of the John Deere Spreader, the Spreader with the Beater on the Axle. Ask us for this book as Package No. Y 27

John Deere Plow Co., Moline, Illinois

Spreader Users! Notice!

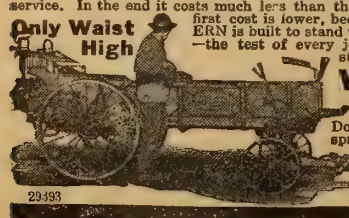
Send for the book that tells *all the facts* about *every* part of the Spreader that stands on its record of twelve years' use; that is used and endorsed by over 100,000 progressive farmers; a spreader that has more *good advantages, simpler design* and *better construction than any other.*

Great Western Now Made "Low Down" For Easy Loading

This is the *old reliable*—retaining all the features that have made it famous and successful—but built *low down—waist high*—with *safe clearance* from the ground. Wheels *under* the load. Buy the *best* spreader while you're buying. Avoid trouble, delays and expense.

Buy Your Last Spreader Now

It will be a GREAT WESTERN, because this is the machine for longest service. In the end it costs much less than the shoddy spreader whose first cost is lower, because the GREAT WESTERN is built to stand the strain of all conditions—the test of every job—and to give years of steady, continuous service.



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Wheels *under* the load. Short wheel base and roller bearings making lightest draft. Simplest possible drive. Fewest parts. No enclosed gears or transmissions. Nothing complicated. Endless roller apron running on *three* sets of large rollers. Indestructible front. Double bolster. 16-inch malleable fifth wheel.

Write TODAY for the FREE BOOK, describing the GREAT WESTERN. Don't buy a fad. Don't buy an uncertainty. Don't experiment. Buy the *proved* spreader—now low-down so it's easy to load. And write today for the GREAT WESTERN Spreader Book. It's FREE.

ROCK ISLAND PLOW CO.,
183B 2nd Avenue, Rock Island, Illinois

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

THE AMATEUR GARDENER.

It is a fact that there are thousands of farmers who, if they undertake a small vegetable garden this spring, will be doing amateur work. There is supposed to be such a gulf between farming and gardening that many farmers never "come across;" but, of course, this gulf is more imaginary than real. The same soil, sun, moisture and culture do the business for one as well as for the other.

But gardening may be called microscopic farming, and it is that very fact which makes it so distasteful to multitudes of farmers. They don't like to putter with small things. They delight to take a good team and big harrow and cover forty acres per day, but it is too much like puttering to spend a day in a half-acre garden.

It may (and it has) happened that a half-acre garden well tended has produced as much in cash as the whole crop of some forty-acre fields, but we will not claim that this is the rule.

Still it may be claimed, and the claim may be well substantiated, that a half-acre garden well tended and wisely planted does as a rule yield as much in money value as any two or three acres of field crops. Think of that, all you farmers who think it don't pay to putter.

Some farmers excuse themselves from gardening work by saying that their families don't like vegetables. Perhaps it is true—at least it is certain that many families have never had a chance to cultivate a taste for them, but it is claiming more than is justifiable to say that they don't like vegetables when no opportunity has been given them to ascertain whether they like them or not.

There ought to be this spring, in this year of new beginnings, governmental and otherwise, a change. There ought to be 10,000 farmers who would decide to undertake a sensible vegetable garden. And as they have never done any real earnest garden work it might well be called amateur gardening.

Now, to begin with, the amateur farmer-gardener ought to decide what are the staple garden crops and what are only novelties and frills.

In the following list of staples we leave out sweet corn and potatoes, for they are really field crops grown more or less by most farmers for stock feed. But the staple garden crops are these: peas, beans, cabbages, tomatoes, parsnips, celery, squash and onions.

This is the list which every family should be supplied with in a civilized community With these, either fresh or stored in some form, you may have a healthful and appetizing variety for your dining table the year around. We would possibly add to this list lettuce and radishes, but they are only transients and do not really come into the clear distinctions of staples. We name these as staples because they are the more valuable for your home table use. They are the varieties which will make and save you money.

If you have the time and the room to spare you may enjoy planting and cultivating a dozen or more other vegetables. Beets, carrots, salsify, "cukes," cauliflower, turnips, melons, peppers, spinach, etc. But we are assuming that you want to make the most for your labor, and while there will be some satisfaction in this latter list there will not be much money. So keep it clearly in mind that the staples will pay in dollars and cents, while the others rarely (and only under certain circumstances) will pay for the labor and time which they require.

Better stick to the staples until you have acquired such a taste for gardening that you don't care whether it pays or not. The question will first be asked by the amateur, "In about what proportions shall I plant these staples?" That is a very sensible question, for some are more desirable than others. It depends, in a measure, upon the taste of the various families.

We can indicate what seems to be the right assignment of space. Say

POTATO bugs

and the host of enemies of your vines are on the job early and late.

Your best defense is in using our Devoe & Raynolds Co.'s Pure Paris Green. Use it when the bugs first appear.

You'll have a better fruit crop if you use our Devoe Sprays—Arsenate of Lead, and Lime and Sulphur Solution.

Specify these goods in ordering. It will pay.

Devoe & Raynolds Co.
171 West Randolph St.
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Largest makers of pure paints

Try It This Year

Hire a Red River Special

To thresh your grain this year. You will save more of your grain than you ever saved before.

Jos. H. Roberts and five other farmers of Hughsville, Mo., say: "It saved so much of the grain that would have been wasted by any other machine that we practically got our threshing done for nothing."

It will do the same by you. We can send you hundreds of testimonials like above from all parts of the country. Insist upon a RED RIVER SPECIAL this year and

Save Your Thresh Bill

The RED RIVER SPECIAL is the only Thresher which *beats the grain* out of the straw like you would do with a pitchfork.

The Big Cylinder, "the Man Behind the Gun," the patented Grate and Check Plate and the Shakers which *beat the grain out* are found only in the RED RIVER SPECIAL. All other kinds expect the grain to drop out.

Hire a Red River Special this year and *beat it out.* It will *save your thresh bill.*

Write for proof.

NICHOLS & SHEPARD CO.
Builders of Threshers, Engines and Oil-Gas Tractors
Battle Creek, Michigan

PEDIGREED Seed Corn

SOLD UNDER BONDED GUARANTEE

Our choice seed corn is grown, selected, cured, graded and tested by our experts. No guess work on quality. Our guarantee bond protects you. We give you 15 days to test it. If it isn't right send it back and we'll refund your money.

Varieties For Every Section

We ship seed corn to all parts of the world. No matter what soil or climate you have we can furnish seed corn that will make good.

Our Corn is Grown and Handled by Experts

and has behind it more than 30 years' experience in seed corn growing. We stake our reputation on every bushel that leaves this house.

Write for free seed corn circular and large catalog telling about 20 varieties.

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WHITE WONDER CORN

YIELDS 100 TO 135 BUSHELS PER ACRE

Investigate now. White Wonder, most Wonderful Yielder ever originated. Bumper crop of prize-winning corn this year. Outyielded Reid's Dent 40 bu. First year ever offered. Drouth resisting, ears enormous size, deep grains, fine quality. Early in maturity. Write for Free Sample, 76-page Catalog, and special circular describing this wonderful yielder.

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Ripe Berries In 4 Months

This wonderful EVERBEARING Tree Raspberry is a valuable acquisition. Not only is it grown a handsome bush 6 feet high, but it bears and should be grown in every garden for its berries. It yields a crop of fruit the same summer you set it from plants set in April or May. Plants set in April gave ripe fruit July 4th and continued to produce fine berries until the end of October.

Berries are large and beautiful, as large as the largest Red Raspberries, brilliant crimson color, firm, and fine flavor. The plants are perfectly hardy even in the coldest regions and do well on any soil. A dozen plants are worth several dollars each to any garden and we want every reader of this paper to try them. Send us a dime and if we are not satisfied we will fruit this summer, mail you plants which we guarantee will grow in North or South, as interesting novelty for your garden. Order Quick For This Offer Will Not Appear Again. Plants ready to set in Garden, 15c each —3 for 30c—12 for $1.00, postpaid.

QUICK GROWING PEANUT

With every order for plants of this great BERRY, (If you enclose M. O. or Silver) we will send FREE A Sample of our NEW EARLY QUICK GROWING SPANISH PEANUT which will grow in North or South, as interesting novelty for your garden.

Mills Seed House Dept. 15, Rose Hill, N.Y.

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It tones the system, regulates the bowels, keeps chicks and fowls in fine condition. The best remedy for *Roup, Colds, Canker, Swelled Head, Cholera, Bowel Complaint, etc.* Actual figures show it reduces chick losses 90 per cent. Given in drinking water —no trouble. Price 50 cts. Lee's Egg Maker should be used by all poultrymen. Large protein, every ounce digestible. Brings eggs, makes chicks thrive. Lee's Lice Killer is sure death to vermin. Paint on roosts; it kills by fumes. Does not harm fowls. Lee's fine poultry books (3) free. Address

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D. HILL NURSERY CO., Inc. *Evergreen Specialists* 216 Cedar Street Dundee, Ill.

SAVE THE CORN ROOTS

WITH my surface and deep cultivator shovels. They scour where others won't, leave ground smooth, handle and run very easy for boys and horses. Your money will be returned if shovels don't please. Send for booklet.

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"More Potatoes"

From ground planted secured by use of The KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate, A simple, strong, durable machine. Write for CATALOG, price, etc.

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Pure Bred Seed Corn

Picked in September, sure growing, big yielding, Reid's Yellow Dent, Johnson County White, Leaming, Improved Silvermine, and Bloody Butcher, grown by us on Sunnyside Seed Farm which we own and operate ourselves. Send today for the free corn book giving full particulars, prices, etc.

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Early Ohios, all the best yielders. Pure northern genuine Red River stock. Grown from special heavy yielding seed, free from blight or scab. Guaranteed best seed stock. Write today for our 76-page catalog, "Secrets on Potato Growing. Double your yields and profits. One customer made $225 an acre. Write

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EVERGREENS

200 Norway Spruce, 3 to 6 in., $1; 100 Arbor Vitae, 3 to 6 in., $1. Prepaid by mail. Many other $1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free.

HARVARD NURSERY, Box W HARVARD, ILL.

you have selected a good, well-tilled patch of a half acre Let it be about six rods by fourteen. It is best to have it in that shape, for you are a wise man, and you plan to cultivate with a horse. With rows four feet apart you will have, say, twenty-four rows.

Reserve two rows for peas, early and late, and four rows for beans. This will include all kinds—string and shell beans, white navy for winter and a few lima or butter beans.

Then allow three rows for cabbage, some early and some late, and you ought to have a supply of this vegetable lasting from July to the following May, and you can if you will take a few simple lessons in winter storage. Then two rows of tomatoes. This will be ample, and you will doubtless have this fruit for market—sell them to your less provident neighbors.

Then allow one row for parsnips. If this is too much, use part of it for some other root crops, but with most people parsnips are a staple for spring.

Then three rows for celery; that is, use that space, but set only two rows —you will need the earth for banking. There are some difficulties about celery growing, but they may be mastered, and it is one of the sure-enough staples.

Then three rows for squash; that is, save a three-row space, but only plant one row. They will cover the ground. Do not be fooled in variety, but plant the one only satisfactory, the reliable Hubbard.

Then take two rows for onions. You may try as many varieties here as you fancy—seed, sets (white, red, yellow and brown—some large and some small). Then you will have four rows left for experiments with any of the other vegetables which you have a fancy for, for in spite of advice given you will be sure to think some of them just as sure to be profitable as those named. We know better, but also we know that you will want to have your own way, so we have planned from the start to have a little space where you can "buck the tiger."

Now such a garden, with a favorable season and good care (and notice that good care will do much to make a favorable season), will yield an output of $200, as much as six acres of corn sold at seventy cents per bushel.

TAKING BULB NOTES.

To the Editor of The Homestead:

Along about the first of February the negligent flower lover begins to think about a bed of tulips or hyacinths for the spring, only to find they are too late. The next year they forget all about the last year's experience and do the same thing over again. Others remember about planting in the fall all right, but don't know what they want, and can't remember what the flowers were that they admired so much in the spring when they saw them blooming in their neighbor's yard. Now there are others who do not know the varieties when they see them, and hesitate about asking all the questions they wish, and the information they obtain is not retained, as no effort is made to impress it on the memory and no notes are taken. I am going to give you a few points of interest about the various spring flowering bulbs, and you can then take notes from your own and your neighbor's garden and be in a position to order your bulbs intelligently when the time comes, as you will have a list of your needs all made out.

In making your notes note well the size, form, color and habit of growth; height, form, color and lasting qualities of the blossoms; and any special characteristics that appeal to you, for all these will be helpful when you make up your final selection. Beds in the garden should be planned carefully, keeping in mind the beauty of the whole, rather than the individual. It is a mistake to try to crowd all sorts into one bed. It is much better to plant twenty-five tulips in a bed than to plant two or three bulbs each of a dozen different kinds.

The three classes of bulbs mainly used for bedding are the hyacinths, tulips and narcissus. The lilies are used for clumps, and the crocus for planting scattered through the grass of the lawn.

The tulips are the most brilliant bedders of the group, and the cheapest. Probably more tulips are planted than all other bulbs put together. The single tulips are preferred by most growers to the double, and I have always liked the single late better than the early. The Darwin tulips are a popular variety of single late, and have stems eighteen inches or more in length, and very rich colors. The single earlies have stems six to twelve inches in length, and have a wider range of colors, but hardly so rich as the lates. The Parrot tulips are dwarf, but the flowers are very large, with odd, fringed, and brilliantly marked petals. They are rather late bloomers. More of the single and double early tulips are planted than any others, and they can be purchased of almost any florist either mixed or in separate colors and of such varieties as bloom at the same time and are of the same height.

Hyacinths bloom earlier in the spring than the tulips, and nothing can be more welcome than their beautiful spikes of fragrant bells. The colors are delicate, and range through the shades of red and blue, from pure white to deep purple. The little Roman hyacinths bloom very early, and should not be planted too early in the fall or they will come up before freezing weather, and be ruined. Don't confuse the Romans with the Dutch Roman, for the Dutch Romans are not Romans at all, but are young bulbs of the regular Dutch hyacinths. I much prefer these for bedding out to the large bulbs, as they will give several years more of bloom before dividing up, as all hyacinths will do when fully matured.

After the hyacinths in popularity comes the narcissus, and there are numerous varieties, but only a few that are planted generally, though a good collection of these will be well worth the money and trouble it costs, and you will be surprised at the pleasure you will have in watching the development of the varied forms and and colors. While the tulips are brilliant and the hyacinths delicate in coloring, the narcissus are extremely modest, being white or some shade of yellow. The polyanthe varieties bloom in clusters, but are seldom planted in the garden, as they are not sufficiently hardy to succeed well. They are used freely for house culture, the Paper White and the Chinese Sacred Lily belonging to this class. The Poeticus, or poet's daffodil, is a very pretty single white, with a yellow cup. The Poeticus Ornatus is identical with Poeticus except it is earlier, and has a scarlet edging to the cup. Probably the one variety that gives the greatest pleasure to its grower is the Von Sion, the large yellow double variety known as the Dutch Daffodil. All the trumpet varieties are fine, and easily grown. The jonquils belong to the narcissus family and have the same hardiness and fragrance.

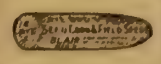
The lilies are another class that vary so much they hardly seem to belong to the same family. The hardiest and most easily grown of the lilies is the old-fashioned tiger lily of our grandmother's garden, and the newer double form of the same. The Candidum is a splendid pure white lily, often known as the Madonna lily, and as hardy as the tiger and as easily grown. It is especially fine for the cemetery, and usually blooms about Decoration Day. The Japanese lilies, Speciosum Album and Speciosum Rubrum, are beautiful and rapidly gaining in favor. The Album is pure white, and the Rubrum is white with a deep crimson stripe down the center of each petal, and crimson dots on the white.

There are many beautiful other lilies advertised, but these are the best that are hardy enough to be generally planted. The Lilium Longiflorum is hardy in Oklahoma and blooms finely in the open ground, but I have never tried them here and doubt if they would come through a severe winter. They are grand lilies, identical in flower with the Harrisii, or popular Easter lily of the florist, and, in fact, are grown extensively in place of the Harrisii, which is subject to a bulb disease.

Now there is one other variety I want to call your attention to before closing this article, as it is not generally planted, but I am very partial to it. It is the Spanish Iris, a hardy bulbous form of the well-known Per-

SEED CORN at farmers' prices. Reid's Yellow Dent, Iowa Yellow Dent 90 day, Iowa Silver Mine, Boone County White and Big Boody Butcher; germination practically perfect; prices $1.75 for seed shelled and graded selected ear seed in bags $2.25, in crates $2.50; R. R. free with 5-bu. lots or over, any variety. We ship on approval. Write for catalog and free samples. BOTNA VALLEY SEED CO., Box E, LEWIS, IOWA.

5,000 BUSHELS SEED CORN



From seed corn center of the world. Reid's Yellow Dent, Silver Mine, White Cap Yellow, Legal Tender, Blair Yellow, Nebraska White Prize, Pride of the North, Blair White. Send for free catalogue.

AYE BROS., Blair, Neb.

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LEAMING YELLOW CORN

HIGH in oil and protein; best for stock; will produce two to five tons more of ensilage per acre than many varieties. Guaranteed to test 97 per cent germination. Price $2.50 on the ear, or shelled and graded. Address

WOODLAWN FARM STERLING, - - - ILLINOIS

SEEDS. Fire dried SEED CORN husked before the frost, dried on independent seed ear racks with air and steam heat. Sure to grow because germ is preserved. Also Clover, Alfalfa, Oats, Rye and Garden Seeds. Write at once for FREE CATALOG and receive FREE SOUVENIR. Address

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RIST'S SEED CORN

IS carefully grown, carefully selected and tested. Four of the leading varieties and plenty to fill your order. Lowest prices for the class of seed to be had anywhere. Also other seeds. Send for cat alog. Mention Homestead. Address

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Strawberries

FOR 40 years we have specialized on strawberry plants, and can furnish most any variety in any quantity desired at money-saving prices. All plants guaranteed. Send for money-saving list and full description. Geo. W. Bridgman Nursery Co., Dept. A, Benton Harbor, Michigan.

For Sale---Barley and Oats

800 bushels of Wisconsin Pedigreed barley, same is colored; Germination test 98%. No foul weed seeds. In 25-bushel lots, $1 per bushel. Sacks 25 cents each. Also 125 bushels Wisconsin Pedigree oats, $1 per bushel in 10-bushel lots, sacks extra. W. G. Jamison & Sons, R. 2, Appleton, Wisconsin;

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WORLD'S FAIR seed corn, tested 98%, selected early in Sept., big yielder, early maturing. Also pure Green Russian seed oats. Write for prices. John H. Berry & Sons, Route 6, Iowa City, Iowa.

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WE have Yellow Dent seed corn for sale. Dried by artificial heat. Tests 90%. Seed grown by practical farmers who have made corn growing a success. References, State Bank and First National Bank, Prairie City. Norris & Coffey, Prairie City, Ia.

SILVER PLUME

A BEAUTIFUL medium, early white oat with the stiffest straw and heaviest yielding qualities, 85c graded and sacked. Send for post card. Address

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sian and German Iris, better known as "flags." The Spanish Iris comes from bulbs, and soon form fine clumps. The flowers are borne on long, wiry stems and have much more substance than the German Iris. The colors are various shades of white, blue and yellow, and one bronze or purple and gold variety has about the richest coloring seen in flowers.

L. H. Cobb.

EVERGREEN WINDBREAK.

To the Editor of The Homestead:

Subscriber, writing from Shellsburg, Iowa, asks about an evergreen windbreak, which he is preparing to plant this spring. His plan is to set three rows of evergreens of three different kinds, arbor vitae for the inside, then Norway spruce, then either jack pine or Scotch pine.

We would prefer the Scotch for the outside row, as it is a more vigorous grower, branches out better and makes a windbreak quicker than a jack pine. The jack will run taller, but in the course of fifteen years will make far less timber than the Scotch. There are a number of varieties which would do well answering your purpose. For instance, you might substitute red cedar for the spruce. In our judgment the cedar will make a better windbreak in a given time than will the spruce, though the spruce will be taller than the cedar. The Austrian pine is very hardy and for some reasons more desirable than the Scotch. It is a slower grower, but makes a more compact, solid tree when it is grown, but it is more difficult to start than the Scotch. In fact, the Scotch pine has this to its credit: It is one of the easiest to transplant of all our commonly grown evergreens.

If you were to add a fourth row it would be well to put in the Austrian after the spruce or cedar, and just before the Scotch.

Instead of the Norway spruce you would do well to take the Black Hills, one variety of the white spruce. It is hardier than the Norway, and, while a little slower grower, is in consequence a thicker topped tree and a better windbreak. It is also more attractive in form and color.

Your high, black prairie soil ought to be good for all of the evergreens named. It is only a question of getting them well started. If the first season is wet enough to give them a good send off and you conserve moisture by either mulching or culture your windbreak should be a success.

Of course, you should use care in getting trees that have been well handled. Be sure that the roots have not been exposed to sun or wind, and dried out. To be sure of that, buy of some responsible nurseryman. It is best to go with your own wagon to the nursery and see the trees dug, and pack them yourself. Using earth in the wagon box, or at least a generous quantity of wet straw, you cannot fail to get them home in good shape. Then when you set out the trees drive to the field and take out the trees one at a time.

Of this be sure: you cannot take too much pains to make sure that each tree you put into the ground is in first-class condition. It is extremely discouraging to go to the expense and labor of buying and setting trees only to find after a few months that they are all leisurely dying and all your work has to be done over again.

If so situated that you cannot go to the nursery, demand of your nurseryman a guarantee that the trees have been well handled. Let him know that if they fail to grow because the roots have suffered injury you will hold him responsible for damages. That understanding will spur him up to care at his end of the line.

M. C. Hinkley.

With the open range now supplying the poultry more and more bugs, worms, etc., those poultry keepers who have been feeding beef or meat scraps should carefully cut down the supply considerably in this ration, as it is very easy to overdo such feeding at this season, and an oversupply of it is a check on the egg yield, at the same time being liable to cause serious diseases among the flocks.

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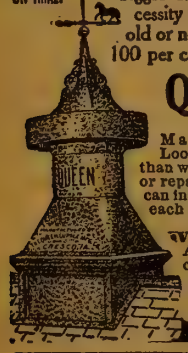

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE PREPOTENT SIRE.

To the Editor of The Homestead:

An animal that has been bred for a long time along certain given lines is more apt to be prepotent because the qualities he possesses have become fixed and are therefore transmitted from one generation to another with a greater certainty. This accounts for the fact that animals that have been pure bred for a long time are more apt to be prepotent, as are also the offspring of prepotent sires. It has also been found that animals that are line bred, or in other words, trace back through several different lines to the same great ancestors, are more apt to be prepotent. This is due to the fact that "heredity transmits with certainty only what has become a fixed characteristic in the race." Breeders have also found that the greater number of the ancestors that have shown unusual merit and the nearer they appear in the pedigree to the animal in question the better.

The above principles will be of help to use in our search for the prepotent sire, but it is not always easy to recognize him when found. Hambletonian 10 was not recognized as one of the greatest sires the world has ever produced until long after he was dead. The great Jersey bull, Stoke Pogis 3d, was sold for beef before his real worth was known. The great Jersey cow, Jacoba Irene, was bought for about the price of an ordinary thoroughbred, and two of the greatest Holstein cows now owned in New York state were bought in Ohio for almost nothing because their owner did not appreciate their real worth. When animals of this kind are given a chance to show what they can do in other hands the loss is not so great, but when sacrificed in our slaughter houses as an offering to lack of knowledge and proper business methods the loss is a pitiable one.

Nowhere does the saying that "the best is the cheapest" apply more forcibly than in the selection of a sire, and the sooner this fact is thoroughly recognized by us the better for all concerned. If we are tempted to use a poor sire we must remember that "we cannot gather grapes from thorns nor figs from thistles," and that "the sins of the fathers are visited upon their children, even unto the third and fourth generations." The importance of this fact will be better seen when we consider how rapidly the individuality of a herd is changed. With the first cross we have introduced 50 per cent new blood, with the second cross 75 per cent, with the third cross 87½ per cent, and with the fourth cross we have introduced nearly 94 per cent new blood, so that the offspring from the fourth cross carry only about 6 per cent same blood as the original herd. Thus in a very brief time we have almost a complete change in the character of our herd, and whether that change is a marked advance in the right direction or a step backwards depends upon the wise or unwise selection of the sires that have been used. Just think of it for a moment, nearly 94 per cent of the blood in the last generation is of our own choosing. How important then that we should make a wise choice because the wisdom of that choice determines whether the individual members of the herd are to be worth a few dollars or a few hundred dollars each. If we economize here we are certainly "penny wise and pound foolish," and I believe we can truly say that there is no place except in the education and care of his family where a farmer can invest money to as good advantage as in a high-class thoroughbred sire. By this I do not wish to suggest that one should pay more than an animal is worth, but if they are bought "worth the money" they will repay the investment many times over.

Another advantage in securing a good sire from a progressive herd that is making history for the breed is due to the fact that in many cases of this kind we have the great pleasure of seeing the value of such a sire doubled or trebled by the large records that are made by members of the herd from which the young sire has been chosen, and we are thus able to reap a fair and legitimate benefit from the labors of others.

In our search for a prepotent sire we are only doing that which every successful business man does, that is seek to increase the efficiency of our plant and add to the value of our product. How long do you think a manufacturer would use an inferior machine if by a comparatively small investment he could double or treble the value of his output? He would not hesitate one moment and if we would reap the same degree of success we must use the same good business judgment. Large financial institutions have well-laid plans by which they seek to lay the foundation for increased future profits. For instance the bankers are considering plans by which they can assist the farmers in producing large crops, so that the farmers in turn will have larger sums of money to deposit with them; the railroads are also trying to assist the farmers in raising larger crops so that their own traffic may be increased. This is not an altruistic effort on the part of either, but rather good business judgment in planning for future results. We believe our farms are worthy of the same careful forethought and that the prepotent thoroughbred sire is one of the sure sources of increased profit.

The farmers of the country, as a rule, have been quick to appreciate the advantages of up-to-date machinery for doing their work, and even the good family horse and carriage are in many cases being supplanted by the automobile. Farm homes are taking on many of the comforts and luxuries of life, but in the midst of all this improvement the dairy interests in many places seem to have been at a standstill and made no progress whatever. Many farmers, while joining in this great forward movement in other ways have been content to milk and care for cows that at the best are only able to produce about 150 pounds of butter fat in a whole year. The greatness of this loss can be better understood when we remember that the dairy cattle of the country produce over $800,000,000 annually, and at a conservative estimate one-third of the cows that help to produce this vast

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amount of wealth are kept at an actual loss, another one-third hardly pay for what they eat, so that all the net profit is made by the other one-third. Considering the millions upon millions of dollars that are thus lost each year we can better understand the great need and importance of better and more prepotent sires. In considering the many advantages of an animal of this kind we must bear in mind the fact that when the excellence and prepotency of the sire are greater than that of the females his influence is correspondingly increased. This is a very important fact and should always be borne in mind, as it affords the means of making very rapid progress in the improvement of the herd. Ordinarily the sire and dam are each supposed to give 50 per cent of their characteristics to the offspring, but when the sire by repeated reproductions of a certain combination of qualities has acquired an almost certain ability to transfer those qualities to the offspring we have in our possession as already stated the means of making sure and rapid progress in the development of our stock. Under circumstances of this kind the old saying that "the sire is half the herd" does not by any means express the real facts, and I believe we may truly say that such a sire is 75 per cent of the herd, and probably even more than that.

The possession of a sire of this kind has frequently been the source of a large income and sometimes of a competency. Coupled with the financial gain comes the great pleasure of being the owner of an animal of this description, and in many cases this is of more real satisfaction than the money itself. With such a sire one may well aspire to become one of the "master builders of the breed, and not a mere peddler of pedigrees." That the name of the wonderful cow De Kol 2nd appears in so many of the pedigrees of the greatest cows in the country is in a large part due to the wonderfully prepotent sons which she produced. At a time when there were 56 Holstein cows, each of which had produced 30 pounds or more of butter in seven days, her name appeared in six-generation pedigrees of those animals in the direct line of descent sixty-six times. Her name appeared in 39 out of 56 of the pedigrees. The name of her mother, De Kol, appeared 42 times, and next to her comes the great cow, Pauline Paul. Her name appears 22 times and is found in 17 of the 56 pedigrees. Next comes Pietertje 3rd. Her name appears 20 times and is found in 19 of the pedigrees. Next comes Pieterje 2nd. Her name appears 19 times and is found in 17 of the pedigrees. In these pedigrees the name of Netherland Prince appears 55 times; that of Milla's Pietertje Netherland 37 times; Paul De Kol 30 times; Duke Netherland 26 times; De Kol 2nd Prince 23 times, and so on among other great sires of the breed.

With the ownership of a great sire comes great responsibilities because prepotency in its highest sense comes to but few, and therefore the great importance of being able to detect it and make the most of it when once it is in our possession. Under circumstances of this kind if one would succeed, he must have a uniform standard of excellence in mind and must not only have the courage to follow his own convictions, but must work continuously and persistently for the realization of his ideals. Perhaps his ideals may never be realized, but if he can so mate the members of his herd that each generation will show an improvement over the preceding one he will gradually approach nearer and nearer to the desired type. If one would achieve the highest possible degree of success he must remember that such success cannot be attained without long and continuous effort, and he must be content to work year after year, if necessary, in order to secure the desired results. Patience and continued effort are the only sure sources of success.

G. H. Dimock.

COWS SHOULD FRESHEN IN THE FALL.

To the Editor of The Homestead:

Like every other great industry, progressive dairying is fast demonstrating the fact that only those who familiarize themselves with each detail pertaining to their vocation succeed. It is often the dairy farmer's unwillingness to face his own errors that stand between him and success. He does not like to give old customs for new, but prefers to trudge along in the same old track rather than take the trouble to familiarize himself with new methods and apply them in his business. Often we see a farmer who realizes from sixty to seventy dollars a year from each cow in his herd while his neighbor receives but little more than half that amount. The conditions of soil and climate are practically the same in both cases yet one farmer becomes richer while the other grows poorer.

You may wonder why this is, but the reason is easy enough to understand. One exercises a wider range of knowledge in the management and is determined to have the best that study and experience can give; the other is content to take whatever comes so long as he does not have to think for it. Dairying has been and is bringing many benefits to the American farmer.

It is enriching his soil, rendering it more productive and thereby adding to the money value of his farm.

It is a plain fact that the basis of improved dairying is selection of cows. Every farmer who is engaged in or expects to be engaged in dairying must remember that no matter how well fortified he may be against the difficulties with which the dairy farmer must contend if his cows are of an inferior grade much of his labor is thrown away. It would be a great advantage to a community if the farmers could come together and decide on some breed that would be adapted to their needs, then co-operate in the purchase of pure-bred sires for breeding their herds. The old practice of having cows freshen in the spring and go dry in the fall must give way to better methods. It has been proven that the best way of increasing the milk supply is by having a cow freshen in the fall, rather than any other time in the year. A cow naturally begins to fall off in flow when six to seven months in lactation. So a cow coming in in the fall or early winter reaches this condition when pastures are fresh and the feed good. This counteracts the natural tendency and through June and July she will hold her own with the cow fresh in the spring. The fall fresh cow is ready to begin to dry off as she reaches the dry weather, short pasture and flies of August and September. The cow fresh in the spring reaches this period at the same time that nature tends to diminish the flow. It is almost impossible to keep up her flow, and if the flow of milk is diminished for three or four weeks it can not be fully restored until she is fresh again.

Most farmers have more time to care for their cows during the winter months, and are by this method enabled to hire a man for twelve months in the year instead of eight or nine. To succeed in this system the farmer must have a supply of succulent feed, either roots or silage, and

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I will say right here that in regions where alfalfa can be grown it is one of the most economical of dairy foods. Its yield is three to six tons to the acre, and where favorable conditions exist I have seen it yield seven and eight tons to the acre. Oats and peas combined also make a profitable crop, and the importance of corn silage as a feed for dairy cows cannot be overestimated. Considering that corn is the staple crop grown in the dairy district of the central West it is the best and most economical feed for either fat or milk production.

Wm. Sorenson.

HANDLING THE BULL.

To the Editor of The Homestead:

We frequently hear the expression, "The bull is half the herd." I believe this to be true, and further believe that of equal importance with the selection of the sire is the care and handling of the bull in service. On him, to a degree much larger than is generally supposed, depends the vigor and consequent future usefulness of the calf; on his own stamina depends his ability to transmit to his offspring health and strength and with them the physical characteristics for which the sire was chosen.

A liberal supply of strength-giving food, plenty of exercise and great care in his handling are all essential. He should have some grain the year round, of a strengthening rather than of a fattening nature. He should be fed in some degree with reference to the work his female offspring is expected to do. In other words, it has always seemed wise to me that wheat bran, oil and cottonseed meal should hold a prominent place in the ration of the dairy sire, while corn and other fattening foods should be fed more largely to the sire of beef animals. Corn, oats and wheat bran are available on every farm, or almost every farm; add to these plenty of good, sweet clover hay; use them wisely and the bull will be well fed. When silage can be had, use it by all means.

Exercise in plenty is necessary, absolutely necessary, for the bull, and if possible provide a tightly fenced yard or pasture lot for him and use it daily. If taken in time almost any bull can be trained to do work, such as drawing a cart or running a treadpower, thus adding to his usefulness and giving him, at the same time, the very best kind of exercise.

At an early age a ring should be put in his nose and from the first he should be fed and handled by it. It teaches him at once that man is his master and goes a long way toward establishing a gentle disposition. But the fact must never be lost sight of that however quiet a bull may seem to be, he is always an uncertain animal and should be watched. Failure to recognize this fact has been the cause of many horrible tragedies. It is best never to take any risks. It is not the part of wisdom to encourage the youngster to be playful with his head. Remember that it is but a short step from a playful toss to a hard blow.

The bull should not be allowed to run with the cows. It is bad for the cows, very bad for the bull and in many cases extremely unsafe. Allow only one service, never under any conditions more than two. This is one secret of long usefulness in the herd bull. It is a matter so generally overlooked and neglected that a large majority of the bulls in use today are worn out at the age of five years, when their real usefulness should be only beginning.

These few points apply to the breeder of the thoroughbred cattle and to the farmer who is seeking to improve a grade herd by the use of a good bull. To the man who is using a scrub bull I wish to say, by all means get rid of him. And never forget that scrubs will breed scrubs, no matter how well they are handled or fed.

Subscriber.

Rist, a Successful Seedsman.

Nebraska has few men of the stamp of Frank J. Rist, Humboldt, Neb. Mr. Rist is a comparatively young man, yet he has attained a degree of success rarely found in one of the number of years. He has in fact grown up in the seed business and his early training has been supplemented with a liberal amount of schooling at the State University department of agronomy. Mr. Rist is now president of the Nebraska Pure Bred Seed Growers Association. He is offering choice seeds for sale, as per his advertisement on another page. Mention The Homestead when you write for prices.

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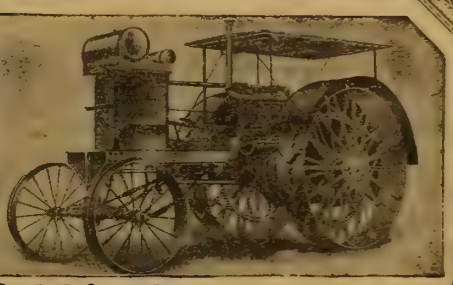

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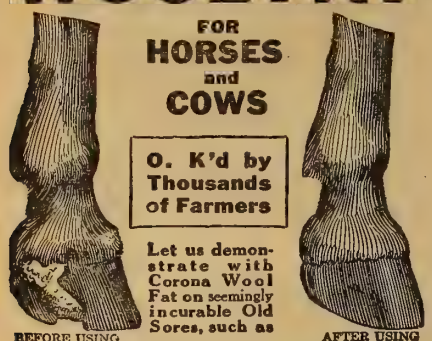

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SYMPTOMS AND TREATMENT.

LAMPAS.

(1) What causes colts to have lampers or swelling of the gum? I have a three-year-old colt that is very much affected. (2) Have seen a yeast treatment for bringing cows in heat recommended, but the amount used has not been stated. Can you give me this formula?

(1) Lampas or lampers is a swollen condition of the bars of the palate just back of the upper incisor teeth and generally is caused by the irritation due to cutting of teeth. Gums may have to be lanced over incoming teeth, or milk tooth crowns removed. Give the colt some old, hard ears of corn to chew on daily. Do not have the swollen parts cut or burned; but swab them with strong alum water twice daily. (2) Use one cake of yeast to make a paste with a little hot water; then allow to stand in a moderately warm room; then add a pint of warm water, stir, allow to stand as before, strain and inject entire amount into the vagina an hour or so before breeding. It also may be injected once a week until the animal comes in heat.

WARTS.

We have a nine-year-old cow that has warts on two of her teats, also on her udder. They have been there about two years but are getting worse all the time. I feed corn, straw and corn fodder. Can you give me a remedy?

Rub the wart covered parts twice daily with best castor oil and the warts will soon disappear. Large warts with narrow neck may be cut off with scissors and the bleeding stopped by applying Monsill's powder or solution. The exact cause of warts is unknown.

RINGBONE.

A brown two-year-old mare got cut last August on outside of left hind foot just above the hoof, the cut three inches in length running around foot about one inch above hoof. I had this all healed up soon after, perhaps a month. There is an enlargement of the foot above the hoof and below the ankle, perhaps two inches running from back corner to hoof on either side around front of foot. Have tried blistering prescribed by veterinarian here but can see no benefit. It seems hard as bone to the touch. She is not lame. Any information will be received with thanks.

A ringbone apparently has formed and as lameness is not present blistering should not be repeated. If you keep cold, wet swabs upon the part the growth may be checked thereby. Should lameness be caused by the ringbone later on, puncture firing and blistering should be done, and a long rest allowed.

IMPACTION.

A three-year-old steer got sick with what seemed to be some kind of bowel trouble. He did not chew his cud and did not eat, but drank a little water. His bowels did not move and he died in six days. What remedy should be applied in such a case?

You should have opened the animal to make sure of the cause of death. Impaction of the paunch or intestines is due to the feeding of large quantities of roughage for a long time, without adding sufficient laxative or succulent feed to regulate the bowels. A full dose of physic, given at once, might have helped. A pint or more of castor oil shaken up in milk makes a good physic in such cases.

LAMENESS.

Have a five-year-old light bay mare that has been lame in the left hind leg for two years. There is a lump or enlargement all around the leg and the lump is hard. Last summer she got over her lameness, but the lump was the same. This winter she has been lame again and the flesh on the left hip has shrunk away. Can she be cured?

You do not state the location of the lump; but we take it to be either a bone spavin or a ringbone which will need firing and blistering by a qualified veterinarian. Then tie the mare up short in stall for a six weeks' rest.

RUPTURE.

I have a colt, which will be a year old in May, that has a rupture on the navel about the size of a large hen egg. Please prescribe.

Have a veterinarian operate by reducing the rupture, pulling up its sac and the loose skin and enclosing them between wooden clamps to cause sloughing; or he may prefer some other method of operating.

THUMPS.

My six-months-old pigs have some disease which is similar to thumps. They seem to have fever for about a week, then commence to run at the nose and breathing seems difficult. Sometimes they have to open their mouths to get their breath at all. What is the matter with them?

If true "thumps" is not present you will probably find that the pigs have quinsy sore throat. Separate well from sick. House comfortably. Rub throat daily with a mixture of one part turpentine and three parts raw linseed oil or melted lard. Throats should be sprayed with Dobell's solution; or a solution of peroxide of hydrogen. Flour sulphur may also be puffed into the throat. Feed milk and middlings in form of slop.

DEPRAVED APPETITE.

I have an eight-year-old registered Jersey cow that freshened on February 24th. I feed sugar cane and alfalfa hay and timothy occasionally for roughage, and ground corn, cob meal and oats. Her appetite is fairly good but every time she gets a chance she eats the rotten part of boards, sticks or any pieces of decayed wood that she can find. I give her salt in her grain every day. What can I feed her to stop that craving appetite for rotten wood?

Discontinue the feeding of cane hay and corn and cob meal. Substitute clover or alfalfa hay, silage and a mixture of cornmeal, bran, ground oats (screened) and oilmeal. Allow free access to rock salt. If the habit persists mix two teaspoonfuls of precipitated phosphate of lime in the feed night and morning.

ABORTION.

My sows are losing their pigs. Have carried them about six weeks. They have been running behind feeding cattle that have had all the silage they would eat with all the corn they would clean up in a half hour. The sows have been fed a thick slop of ground oats that were boiled and then fed cool. They are not too fat, as there were fifty-six hogs behind about thirty cattle. Do you think it is abortion? If so had I better sell the sows or

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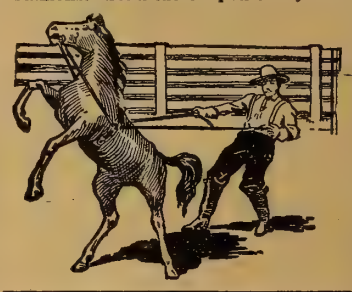

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DRIVES AWAY FLIES

Write for Free Booklets

PARKE, DAVIS & CO.
DEPARTMENT OF ANIMAL INDUSTRY
DETROIT, - - MICHIGAN

would it be all right to breed them again in June for fall litters? As nearly as I can tell two-thirds of the sows have lost pigs. They got some of the silage, but it was not moldy. The oats were heated in a bin until they would stand alone, but they didn't get very moldy or do not smell very musty. What can I do for the sows?

There is every reason to conclude that the abortions have been due to the feed and there is no reason why the sows should not be retained for breeding. Moldy oats is sufficient to cause abortion. The cooked feed is unnecessary and possibly has not agreed with the sows. Keep them away from feeding cattle and feed light, laxative slop of sound feeds.

DIABETES.

I have a brood mare eight years old in bad condition. Every spring for the last four years she gets very thin but eats heartily all the time. Her hair turns the wrong way. In plowing she stops to urinate something like twenty-five times a day and about a tablespoonful at a time, very thick and the color of the yolk of an egg. She suckled a colt last year, but is not in foal now. Any information would be appreciated.

Moldy hay is a common cause of such urinary trouble. If your hay is poor in quality better feed wet oat straw, along with oats and bran. She will do better if you have her teeth put in order by a veterinarian and also have her clipped this spring. It would be well to give her a physic.

WEAK KNEES.

Have a four-year-old mare in good working flesh which has not been pulled hard this winter. Ten days ago I noticed a popping sound in her knee joints. The joints are not swollen and she is not lame. I can see the joints work back and forth as she walks. Please tell me what to do for her.

The true knees of a horse are the stifle joints, in front of which is the patella (knee cap). In weak colts the patella sometimes slips back and forth during action. Blistering or use of stimulating liniments strengthens up the parts in time so that the patella stays in place. The horse has to be kept tied up for a few weeks while under treatment. If you mean the knees of fore legs, the condition is unusual and one that we do not quite understand. Try hand rubbing three times a day and at night rub with liniment.

INDIGESTION.

I have some sows that root around and seem to eat their droppings as soon as it falls. I feed them ear corn, alfalfa hay, meat meal and a slop of shorts and ground corn. Can you tell me what causes it and what I can do to prevent it?

You are overfeeding the sows and allowing too little exercise. Stop feeding ear corn and also reduce other feed. Add roots to the ration and make the sows take plenty of exercise every day. Allow free access to wood ashes, charcoal and slaked lime.

BARRENNESS.

I have a heifer coming three years that does not get with calf. Is there any way of getting her with calf?

If the heifer is of common breeding and in good flesh you might as well sell her to the butcher, as there is no specific for barrenness and the causes are many and different. If you do not care to do this have the mouth of her womb opened an hour before service and meanwhile inject into her vagina two or three times a week a gallon of warm water containing half an ounce of pure phosphate of soda.

SWELLING.

I have a black mare fifteen years old. Last fall she had blood poison and it left a swelling in her hind leg between the ankle and hock. She limps considerably. She has been running out all winter. The blood poison was caused by the interfering of her back shoes. What treatment would you prescribe?

Hand rub the leg dry each time she comes into the stable; then wrap with cotton batting and bandage snugly. Allow her a box stall in stable. It is rare for such a swelling to cause lameness; therefore a careful examination should be made, as there may be some other cause, such as spavin or ringbone.

THIN MARE.

Have a bay mare coming three years old. Ever since last August she has been running down. She is very poor. I feed her twice a day on corn fodder and give her either oats or a good feed of corn. She eats greedily but her feed does her no good. She runs out during the day. She bites her legs as though they itched. She ran in a pasture all last summer and began getting poor there. Kindly tell me what to do for her.

Have her teeth attended to by a veterinarian and then have her clipped. Feed whole oats, wheat, bran and best of mixed hay. Feed the grain from a large shallow box so that bolting cannot occur. If she fails to improve give her half an ounce of Fowler's solution of arsenic night and morning.

Learn What You Buy

In his laboratory work of a lifetime and selling his various scientific products Dr. Hess (M.D., D.V.S.) has always taken our farmers into his fullest confidence. He believes that the farmer should know exactly what he buys. It is his belief that the more people that know what Dr. Hess Stock Tonic is made of the better. Then there is no mystery, no exaggeration—all claims that Dr. Hess Stock Tonic will increase growth and milk and relieve stock ailments can be verified by referring to the medical writings or the U. S. Dispensatory. The formula for

Dr. Hess Stock Tonic

Dr. Hess Stock Tonic contains:
Nux Vomica. Digestive and Nerve Tonic.
Quassia. Digestive Tonic and Worm Expeller.
Sulphate of Iron. Blood Builder and General Tonic.
Sulphate of Soda. Laxative and Liver Tonic.
Common Salt. Appetizer, Cleanser.
Epsom Salts. Laxative.
Nitrate of Potash. Stimulates kidneys.
Charcoal. Prevents Noxious Gases.
Fenugreek. Tonic and Aromatic.
The above is carefully compounded by Dr. Hess (M.D., D.V.S.), with just enough cereal meal to make a perfect mixture.

is printed in the left-hand panel here with extracts from the U. S. Dispensatory. Dr. Hess even goes further and makes this proposition: **Our Proposition:**—Feed Dr. Hess Stock Tonic to your horses, your cattle, your hogs and your sheep; especially when you are preparing for market. If you are not convinced beyond the shadow of a doubt that it has proven a paying investment by increasing digestion, improving the general condition and appearance, keeping your animals free from disease and free from worms, go to your dealer and he is under contract with us to refund your money.

Dr. Hess Stock Tonic in 25-lb. pails costs you $1.60; 100-lb. sacks $5.60. Only costs 6 cts. per month for the average hog.

Furthermore, for any condition which Dr. Hess Stock Tonic does not remedy, write us care of the Information Bureau and special prescription will be furnished you free of charge.

DR. HESS & CLARK
Ashland, Ohio

Dr. Hess Poultry Pan-a-ce-a

The ingredients of this poultry tonic are also printed on the package. Your druggist will tell you what beneficial effects poultry must derive from these ingredients. We guarantee it to make your hens lay more eggs, help chicks to robust maturity, shorten the moulting period and keep your flock hardy and well. Your money back if it doesn't. If your dealer cannot supply you, we will.

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Made of Iron and wood. Portable, can be taken down and put up in five minutes. "Saves its cost in the housing of one litter." Built like a barn. The sliding top makes it easy to enter and let in the sunshine. It's rigid and durable. Write for description. Give circular and introductory prices. Do it now.

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Remove-All positively cures Sprains, Ringbone, Curb, Shoe Boils, Capped Hocks, abnormal growths and lameness.

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Sold on money-back guarantee. Leaves horses sound and unscared. Lump Jaw is cured in less than three weeks with

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Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases.
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Lankford Horse Collars

cure and prevent sore shoulders and galls while the horse works. Stuffed with clean cotton which absorbs sweat. Acts as collar and pad combined. Fits comfortably any shape neck. Will not sweeney the horse. Sold by most dealers. Send for FREE Memorandum Account Book and particulars regarding Lankford Collars. Prices $1.25 up.
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As long as you *do* raise hogs—see to it that they are always kept in *good health*. Hogs in good condition are not likely to become diseased—get worms or have cholera.

Lewis' Lye

Get the can with the Quaker label.

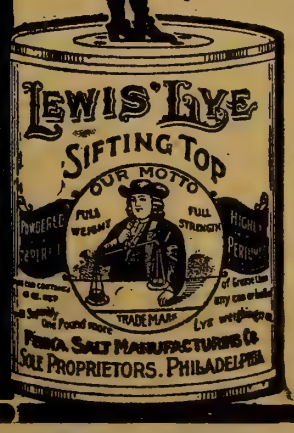
The Standard for Half a Century

is the best and by far the cheapest preventive and hog conditioner known and as *such* gives the greatest satisfaction. Lewis' Lye is—

Best for all General Purposes

for the simple reason that it is *all lye*, 98% pure. Its quality and full strength is fully guaranteed. It is the only lye made and sold by manufacturing chemists—the only lye you can afford to use for—

— Making Soap
— Softening Water
— Household Cleaning
— Disinfecting
— Destroying Vermin
— or as a Hog Conditioner



Write today for our booklet of suggestions and new uses for Lewis' Lye on the farm or in the home.

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spavins, windpuffs, thoroughpin, swelling of the throat and glands, cuts, bruises, scratches, greased heels, lameness, also lump jaw and all cattle blemishes. For over 30 years

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has been the *standard* for horsemen, veterinarians, farmers. Sold under a strong guarantee—if not satisfied after using it, you get your money back. If your druggist can't supply you, send us $1 for trial bottle—prepaid. Safest—surest—most humane remedy. *Write today* for free booklet—testimony of leading horsemen.

Used 30 Years
$1.00 Prepaid

W. B. EDDY & CO.
Department H Albany, New York

Wisconsin Lands Attractive.

Two hundred inquiries for land received during the past thirty days, two-thirds have been for the Wisconsin cheap dairy lands.

Just think of buying fine tame grass lands right at the door of markets at $7.50 per acre. Finest trout streams and lakes in the world, a delightful place in which to live, and more money being made in dairying than any other method of farming.

Have some fine southern Minnesota farms at $75.00 to $85.00 per acre; fine Red River valley prairie lands at $22.00 per acre; fine stock ranch with buildings in North Dakota, 11,200 acres at $56,000 upon easy terms.

Write today about some of these good things.

GEO. R. SLOCUM,
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IN order to close up my real estate business I am offering for sale a number of choice farms from 160 to 320 acres in Redwood county, Minnesota, where **CORN IS KING.** 312 acres two miles from Morgan, a good set of buildings and farm tiled out. Price $75 per acre on easy terms.

160 acres without any buildings but practically all under cultivation 3 miles from Morgan. Price $60 per acre. These are only two of many good farms that I have for sale where the soil is from 4 to 8 feet deep over a good clay subsoil. Write me for further information; Address

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MONTGOMERY, Wilson and Labette counties; majority in Montgomery; all under wire fence; most of them have dwellings and outbuildings; cultivated more or less; fine soil, water, schools, etc.; great grain and stock country; splendid shipping facilities; near large towns; steam and electric railways; acquired over 10 years ago for oil and gas; offering today at sacrifice prices and on reasonable terms. Write for our descriptive folder—FREE. Edgar Zinc Company, St. Louis, Missouri, or Cherryvale, Kansas.

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MICHIGAN hardwood cut over lands, some improved, most productive virgin soil out of doors, three bumper crops alfalfa per year, excellent for all grains and grasses and fruit. Terms and prices easy. Write

THAD. B. PRESTON, - Onaway, Michigan

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152 ACRES, 7 acres timber, balance cultivated, two-story 10-room house, two barns 40x61 and 30x40, good silo, granary, henhouse, good orchard, nicely located three miles from railroad town. Include 9 cows, 3 heifers, 1 bull, all for $36,000, part cash. Hall's Farm Agency, Owego, Tioga Co., New York.

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SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

FARMS WANTED We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property **free.** American Investment Association, 33 Palace Bldg., Minneapolis, Minn.

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987 ACRES Coffey Co., 112 mi. s. w. Kansas City plenty alfalfa and clover, fine water, good improvements, 3 silos. Can give possession any time. W. L. ASHBROOK, Owner. GRIDLEY, KANSAS.

FOR SALE—Deeded land and desert and homestead entries, well improved and under a good ditch. Write for further information to WILLIAM TEW, STERLING, COLORADO.

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

W. H. WALTERS BRUCE, S. D., buys, rent and sells Brookings Co farms, or will trade for pure-bred live stock

WE SELL OCEANA FARMS—GREATEST fruit county. Also Potatoes, Corn, Alfalfa, Stock. List free. HANSON & SON, Hart, Mich.

HINTS·SUGGESTIONS·DEVICES

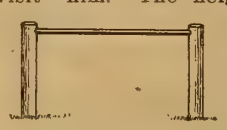
WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A CONVENIENT TOOL BOX.

A handy tool box may be made out of eight-inch boards. Saw them three or four feet long or the length desired, one board for the bottom and two for the sides. For the ends saw pieces eight by eight inches with the upper edge extending to an angle. A rod may be extended from angle to angle of each end which may be used as a handle for carrying or lifting the tool box. This box can be kept in the house or shed and will keep tools nicely.

Put up a Good Hitch Rack.

As spring opens up the farmer will be inspired with a desire to do some improving about his place which will add to its attractiveness and convenience. There is nothing more beneficial than a good hitch rack in front of the home where the farmer can hitch his own team and his neighbors can also be accommodated when they visit him. The neighbor who is thoughtful never likes to hitch his horse to a fence for fear the animal may break the fence or hurt himself by jumping over it or getting his feet caught in a wire. Put up a good rack and the farmer who visits you will be glad to tie his horse there. A good rack can be made by setting two posts in the ground about ten or fifteen feet apart. Bore a hole in the top of each and insert the end of an inch or two-inch pipe. This will cost but little and will be very convenient and look well.

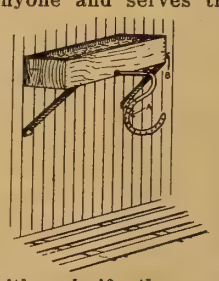


To Splice Timber.

The accompanying illustration shows a neat way to splice timber and after being spliced in this way it is as strong as it was before breaking. This plan is especially suitable for splicing tongues, etc. A is the block placed between the two center bolts to keep the tongue from pulling apart; B is an iron brace which for light or ordinary places may be supplanted by wood, and C represents bolts.

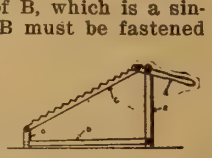
Homemade Shower Bath.

The homemade shower bath is a convenience which may be enjoyed by anyone and serves the purpose fully as well as the best city shower baths. The body or tank may be made of anything that will hold over five gallons of water. The circular tube is a piece of rubber hose with a number of holes cut in with a knife the correct size to suit the amount of water desired by the operator. The rubber hose, A, may be supported by a wire and to make it more convenient it would be well to supply a faucet between hose, A, and tank, B.



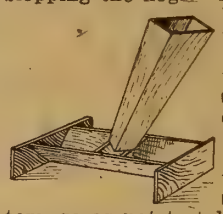
Wagon Jack.

A handy wagon and vehicle jack may be made at home which for ordinary use is better than the large, expensive ones, for the reason that with this one there is no adjustment and it will lift the weight of a wagon with ease. The end piece, A, is six inches high, consisting of two pieces, one on each side of B, which is a single piece. A and B must be fastened together very securely so they will not give. The two long back standards, E, may be made any length to suit the operator and E must be fastened to B with a single bolt to allow a free-turning joint. Figure C. shows a one-by-five-inch piece cut out to hold the object to be lifted, and D is the lifting handle. D, the lifting handle, must be bolted to E with a single bolt and attached to C with two small pieces of iron or wood which will allow a free-working joint.



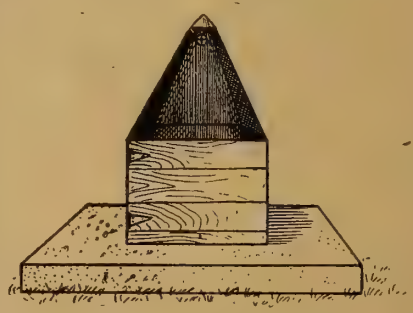
Hog Waterer.

Below is given an illustration of a handy device used in watering and slopping the hogs. The trough should be located near the fence of the pen, so that the feed may be poured into it from the outside. The spout leading down to the trough should be made small at bottom, so as not to take up room in the trough, while it should be big enough at the top to easily admit the contents of a bucket. By using this device none of the feed is wasted by missing the trough or pouring it on the hogs.



A Sanitary Well Curb.

A well house like the one below is a guarantee that impurities will not get into a dug well. The curb is set in a cement platform. This platform is built around the curb, thus holding it solid and preventing surface water from trickling down. The curb is made from matched lumber with a roof that has a sharp slope. The well wheel is hung on the center pole of the roof. The forms for the cement platforms are made from six-inch boards. The concrete is mixed half cement and half ballast. Apply three inches of concrete, then spread on a layer of hog wire. Put bent rods around all the corners. Apply the rest of the concrete. Smooth off well and let stand three days before removing forms. The well curb should have lids attached with hinges, these can be closed when the well is not in use, thus preventing dust from blowing down.



We do not believe in raising any crop in a young orchard between the tree rows. All the strength and moisture of the soil should go into tree growth. Sharing it with a crop often means a half failure with each.

$200

Takes possession of a fertile quarter section in

Southwest Kansas

There's not much vacant land left in Kansas. The five southwestern counties have remained unsettled and undeveloped because of inadequate transportation. The Santa Fe is building new lines to serve this territory, and thousands of farms next season will be put to creating wealth. This is your opportunity to get a good Kansas farm cheap. The terms are advantageous, the results certain.

If you had taken a Kansas farm ten years ago and developed it with intelligence and vigor, you, too, would now be lending money to Wall Street, as other Kansas farmers are doing. You, too, would have a piano in your parlor and an automobile in your barn.

The next best thing is not to lose this opportunity of securing a quarter section of this splendid wheat land.

Besides wheat, oats and barley, you can get good profits out of speltz, milo-maize and kaffir-corn fed to your own stock. Hogs thrive on milo and kaffir, and disease is unknown. Western Kansas farmers find peanuts a splendid hog feed, easily grown and easily fed. Broom corn brings fancy prices, and potatoes, garden truck, fruit and alfalfa will all do well for you.

There are some flowing artesian wells in this territory, and everywhere that wells have been put down water comes to within thirty to sixty feet of the surface. Irrigation by pumping will doubtless be commonly practiced, and the tremendously increased yields will pay big dividends on the small investment required for gasoline or oil driven pumps.

The climate is pleasant and healthful. Your boys and girls will find good schools. Churches, social clubs and farmers' institutes are being organized. Rural telephones and free delivery are coming in. In every way development is rapid, and only a few years will give you every advantage that older communities have.

You can secure a quarter section (160 acres) for only $200 down. The price is $10 to $15 an acre. The terms are astonishingly liberal. Only one-eighth down and one-eighth each year after the second year, with interest at only 6 per cent. You see you have two full seasons before a second payment on the principal is required.

For further information write for illustrated descriptive folder containing map and full details.

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Topeka, Kansas

"Kuhn California Project"

In the Sacramento Valley

The canal, drainage and road construction completed, these lands are now being sold in small subdivisions. The soil, a deep alluvial silt loam, the best in the valley.

RAILROAD PASSES THROUGH THE LAND

Towns, Schools and Churches Near At Hand

CROPS—All kinds of fruits (including oranges and lemons); vegetables, seeds, berries, alfalfa, cattle, hogs and chickens.

WATER SUPPLY—Unlimited. Water delivered to boundary of every 40 acre tract. Canal and drainage system perfect.

TRANSPORTATION—Both by rail and river to the great metropolitan centers.

LAND PRICES—Low, and terms of payment easy.

If you want to secure a home in California, where climate, soil and water combine to work for you overtime, fill in this advertisement, and mail to us for full particulars.

KUHN IRRIGATED LAND CO.
Dept K 137 S. La Salle St. Chicago Ill.

Name .....

Address .....

Check off on this list what you are particularly interested in:

Citrus Fruits, Deciduous Fruits, Dairying, Hogs, Poultry, Nuts, General Farming, Alfalfa, Berries, Bees, Garden Truck.

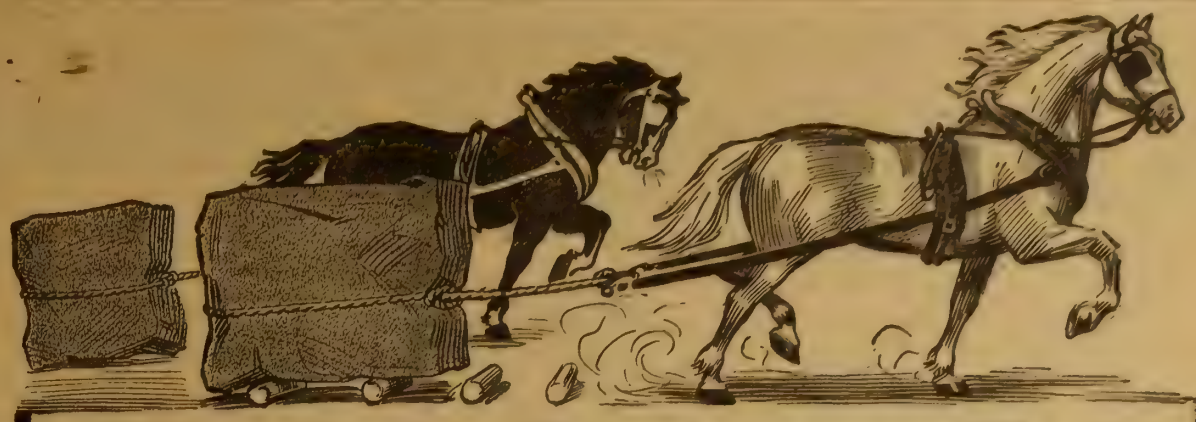
TEN YEARLY PAYMENTS

CURRENT EVENTS.

(Continued from page 8.)

The cyclone struck Omaha on Easter evening and the religious rejoicing was quickly turned to sorrowing and suffering. Neighboring cities quickly came to the relief of Omaha, but there was little that outside help could do. Already the sad task of burying the dead has been performed and the work of rebuilding the stricken city is well under way. Omaha is the natural gateway to the trans-Missouri west and has been built up into one of the proud and prominent cities of the grain belt. It will suffer only a temporary setback as a result of the cyclone and will soon be rebuilt, stronger and better than ever before. It is a stock-shipping and stock-slaughtering point of prominence.

THE Illinois legislative commission which has been investigating the woman wage problem, particularly as it applies to the social evil problem, has enlisted the aid of President Wilson. It is highly probable that a nation-wide investigation, under the authority and direction of congress, will follow the work of the Illinois legislature. Already more than a dozen states have pledged themselves to join hands with Illinois and investigate the extent of the evil resulting from the low wages paid to girls and women, particularly in the large cities. Iowa and Missouri are alive to the situation and although the problem is not so serious in either state it is expected that the investigations will be of far-reaching value. In Ilinois it is proposed to establish a $12-a-week minimum for women workers, although this sum is declared to be entirely too high by the large employers of Chicago, who assert that it will result simply in driving women out of employment and filling their places with men. A minimum wage of $9 a week is said to be acceptable to most of the large employers. Incidentally the whole investigation is being used as an argument in favor of equal suffrage, it being declared by the suffragists that were they given the right of the ballot the problem would disappear because of the fact that more attention would be paid to the needs of the sex as a whole in order to secure its support. Lieutenant Governor O'Hara, of Illinois, chairman of the Illinois Commission, believes that the greatest good will result, however, in raising the wages of men, thus making it possible for a greater number to establish homes of their own and thereby minimize the number of women wage earners.



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You know how much easier it is to draw a stone on rollers than to drag it along the ground. You have seen houses moved on rollers many times. Our mechanical engineers have applied the same principle to wagon building. They have invented and perfected an improved roller bearing with specially hardened steel bushing, for farm wagons, that runs ⅓ to ½ easier than the ordinary frictional sliding bearings. This invention has revolutionized farm wagon construction, and every wagon will soon have roller bearings. Official tests of Road Experts of U. S. Department of Agriculture show remarkable results.

Peter Schuttler Roller Bearing Wagons

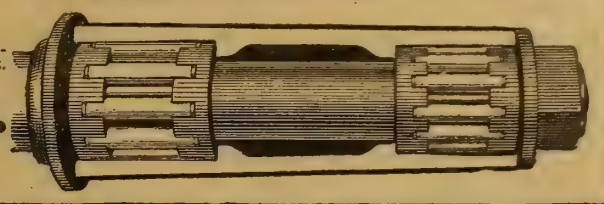
Do One-third More Work and Do It Easier

because the roller bearings run so much lighter and require less power to pull the load. They save time—money—horses—harness—feed—repair bills—greasing—trouble, and wear on the wagon. They are much easier on the horses, and soon pay for themselves by economy of operation.

The Schuttler Roller Bearing Wagon is not an "all steel" wagon with steel wheels—but the "Old Reliable" Peter Schuttler Quality Wagon—the "One Best"—with standard wood wheels, steel axles, and our latest and greatest improvement—the Schuttler Patented Roller Bearing.

Write For Our Free Book

which explains the improved Schuttler Roller Bearing construction and gives records of official tests by United States Government.



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2508 West 22nd Street Chicago
The World's Greatest Wagon Factory
Established 1843

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In Western Canada's
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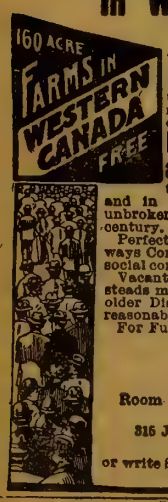


The Province of **Manitoba** has several New Homestead Districts that afford rare opportunity to secure **160 Acres** of excellent agricultural land **FREE.**

For Grain Growing and Cattle Raising

this Province has no superior and in profitable agriculture shows an unbroken period of over a quarter of a century.

Perfect Climate; Good Markets; Railways Convenient; Soil the very best, and social conditions most desirable.

Vacant lands adjacent to Free Homesteads may be purchased and also in the older Districts lands may be bought at reasonable prices.

For Further Particulars, address

Frank H. Hewitt
Des Moines, Iowa
W. V. Bennett
Room 4, Bee Building, Omaha, Neb.
R. A. Garrett
315 Jackson St. St., Paul, Minn.

or write Superintendent of Immigration, Ottawa, Canada.

Come to Romeo

ROMEO SAN LUIS VALLEY COLORADO

A SUCCESSFUL small grain and live stock country, the home of the pea-fed lamb and hog. No drouths, excess wet weather, sunstroke, blizzards or hail storms. Good school and church accommodations. Excellent chance to profit from advancement in value. I have a number of good farms I want to close out. Small cash payment, and good terms on balance. Address

Zeph. Chas. Felt - - Romeo, Colorado.

HARTSHORN
SHADE ROLLERS

Original and unequalled. Wood or tin rollers. "Improved" requires no tacks. Inventor's signature on genuine:

Stewart Hartshorn

CIVIL SERVICE examinations open the way to good government positions. I can coach you by mail at small cost. Full particulars free to any American citizen of eighteen or over. Write today for Booklet O-1143. Earl Hopkins, Washington, D. C.

Central Missouri Write for list of corn, wheat, clover and blue grass farms that will prove profitable and satisfactory. 100 improved farms described and priced. Mild healthful climate. Hamilton & Crenshaw, Box 3, Fulton, Mo.

BARGAINS in the clover and dairy belt of central Wisconsin, the clay soil; we have large and small farms, also tracts of unimproved lands. Write for our free list. Address A. Kleinheinz & Son, Marshfield, Wiscousin.

GROWING SOUP BEANS.

To the Editor of The Homestead:

No farmer's wife need ever be without soup beans all through the winter season, as they are so easily grown in the summer. There is more than one variety of soup beans, the large white flat ones being our favorite. Any variety of the soup bean family may be grown successfully by planting them in the cornfield. Soil that will grow good corn will also produce soup beans. When corn-planting time arrives we go into the field and plant our soup beans in the richest soil the field affords, dropping one bean in every alternate hill until the desired amount is planted. The corn supports the vine, which is a rank grower and also a prolific bearer, bearing blossoms and beans from the ground to the top of the cornstalk. The only cultivation required is done when plowing and cultivating the corn.

One farmer's wife in our neighborhood raised twelve bushels of these beans besides those that were saved for home use. The twelve bushels were sold to a merchant for $3 per bushel.

Until a few years ago we grew the bunch navy bean for our winter supply of dried beans, but since we began growing soup beans in the corn we have entirely abandoned the navy bean. It takes a great deal more labor to grow the navy bean and besides they do not have so delicious a flavor when cooked as does the big white soup bean. Nothing in the vegetable line is better in winter time than a kettleful of these soup beans in which has been cooked a ham bone.

In the fall the beans which are the first to mature are those near the ground. These we gather in sacks or baskets and spread them upon sheets in the sun for a day or two. We then hull them out by hand and put them in a dry place until needed. Later on when those which grow higher up on the vine are dry we gather them also and treat them in a like manner.

S. E. M.

1,001 Knights of the Spalding Deep Tilling Machine

have told us in dollars and bushels just what deep tilling means to them. They relate their *actual experiences*—not their *theories* of deep tilling. In this mass of evidence are several letters relating to soil conditions similar to *yours*. Below are a few of these letters. If you want more deep tilling facts, write us for the book entitled, "1,001 Knights."

These Men Saw the Light

Alliance, Neb., Nov. 16, 1912.
In answer to your letter in regard to the Deep Tiller as to the effect it had on my crop, would say that the corn made 60 bushels per acre while that raised on the mouldboard plowing made about 20. That on the deep tilled land would have yielded 75 bushels if it had not been so thick on the ground. There was very near double the stand that should have been. I don't consider that this last summer was as good a time to show the merits of the plow, as if it would have been a dry season. We had double the rain we needed to make a crop.
We have done some fall plowing where we plowed with it last spring and it pulls considerably lighter than the first plowing did. I consider it the most profitable machine that I have and would not take $500 if I could not get another one. Yours truly,
(Signed) J. P. BARGER,

Fulton, Mo., Nov. 30, 1912.
Until last spring I had never seen real plowing. One end of the field was so hard and stony that no mouldboard plow could be held in the ground. The Spalding Machine cut its way through everything and left the surface in beautiful condition. It was so well pulverized that it was in much better condition undisced than was the shallow plowed portion after double discing.
It was easy to pick out the deep tilled corn from a distance by the vigorous growth.
C. J. SMITH.
Mgr. Mo. State Hospital Farm.

Highmore, S. D., March 29, 1912.
I used the one they had at the experiment station here on two or three acres of my farm last year. I had corn on that land this year, and winter wheat was sown in the corn. I observed last fall that the winter wheat on the deep tilled land showed at least 50 per cent better crop than the more shallow tilled land.
H. H. STONER
Supt. Farmers' Institute.

Spalding Dept. 68 GALE MFG. CO., Albion, Mich.

GET Longer Better & More WOOL

HIGH SPEED EASY ACTION

that will net you from 15c to 20c more on every sheep you shear with a Stewart No. 9 Machine. Don't labor with hand shears, in the old, hard, sweaty way. Don't have aching, swollen wrists. Don't scar and disfigure your sheep with uneven shearing and spoil the wool with second cuts. Take off the fleece smoothly and quickly in one unbroken blanket with a

Stewart No. 9 BALL BEARING Shearing Machine

and get a length and quality of wool that will bring the highest price. The Stewart runs so easily a child can turn the handle while you shear. Extra profits soon pay for it. It's the most perfect hand operated shearing machine ever devised. Has ball bearings in every part where friction or wear occurs. Has a ball bearing shearing head of the latest improved Stewart pattern. Price complete, including 4 combs and 4 cutters of the celebrated Stewart pattern, only ..... PRICE $11.50

Get one from your dealer, or send us $2.00 and we will ship C.O.D. for the balance. Money and transportation charges back if you are not pleased with it.

CHICAGO FLEXIBLE SHAFT COMPANY,
734 La Salle Ave. CHICAGO, ILLINOIS

Write for FREE catalogue showing most complete line of Sheep Shearing and Horse Clipping Machines.

The Best for Clipping Horses, Mules and Cows

Stewart Ball Bearing Clipping Machine

It's a valuable outfit that should be in every stable. Those who know the horse best have agreed that to clip him at the proper time improves him in every way. He looks and feels better, does more work, rests better and gets more good from his feed.
Insist on having the "Stewart." It's the easiest to turn, does the fastest work, stays sharp longer and is more durable than any other clipping machine made. Get one from your dealer, price only..... $7.50 or send us $2.00 and we will ship C. O. D. for the balance. Satisfaction guaranteed.

Wool Growers, Beware of the Tariff "Bugaboo"

Don't let this *tariff talk* scare you. Even though the tariff is being revised, you will get a good price for your clip, *provided you sell at the right time.*

To take care of our customers during this season of surprisingly quick-changing prices, we are going to send FREE Special Market Reports *frequently*, from now till September. These Special Reports will be authentic and reliable, being based on our 47 years experience, during which time we have become one of the biggest wool merchants in the world.

By watching our Reports closely, our customers can pick the best time to sell. Last year our customers made an average of 2c to 3c per pound more for their wool by following our advice. *This* year they will profit *even more*, as a result of our Special Reports.

Now, if you have as much as 200 pounds of wool, you can have your name put on our mailing list. You'll get our Special Reports, free, *all through the season.* You won't make the mistake of selling at the *wrong* time, or of selling to some buyer who, on account of the tariff agitation, is afraid to pay you the market price, or will scare you into taking less than the market value.

Remember, we charge nothing for this service. We place you under no obligation whatever. We must print about 50,000 Reports anyhow for our old customers. It's no particular trouble to print a few hundred extra for other wool growers.

Merely send us your name on a postal. Then, every time we get out a Special Market Report you will be remembered. You certainly can't *lose* anything by watching our Reports, and they may be the means of saving you a lot of money—*good, hard coin that rightfully belongs to you.*

This is no season to be selling wool to any old buyer at any old time. GET POSTED. If you send your name on a postal *now*, you'll get some interesting Wool News by return mail. (12)

S. SILBERMAN & SONS, Desk 27, 1117 W. 35th Street, CHICAGO, ILL.

Ironclad TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only $10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the greatest hatching contests ever held. In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine we offer with Brooder, freight paid for only $10. Mrs. C. F. Merrick, Lockney, Texas hatched 148 chicks from 148 eggs in 1912 contest

140-EGG Ironclad Incubator
Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tycos Thermometer, glass in door and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this adv.

GALVANIZED IRON
INSULATED BOARD
REDWOOD
ASBESTOS
5-Year Guarantee

Both for $10 Freight Paid East of Rockies

30 Days' Free Trial Money Back if not Satisfied.

140 Chick Brooder

IRONCLAD INCUBATOR CO., Box 59 Racine, Wisc.

Feed Growing Chicks Right

They must be furnished with the right kind of material if they are to make satisfactory growth of muscle, bone and fe ther. Profit lies in quick growth and early maturity. Rush those cockerels to marketable size and turn them into cash before prices fall. Get the pullets completely developed and ready to fill the nests with fall and winter eggs.

Pratts Baby Chick Food

contains just the necessary ingredients to give them during the first three weeks the best possible start, at a cost of 1c per chick. In boxes and bags, 25c, 50c, $1 up. After the third week mix

Pratts Poultry Regulator

in the ration to aid digestion and make the greatest gain for every pound of feed consumed. 25c, 50c, $1. 25-lb. Pail. $2.50.

"Your money back if it fails."

Our products are sold by dealers everywhere, or

PRATT FOOD COMPANY
Philadelphia Chicago

Kill the ROUP Germ

Stamp out this disease in your poultry yard. Roup germs lurk in the drinking water, nests, coops, everywhere they can find a breeding place. **Stamp them out—use B-K.** Just put a few drops of B-K, the powerful, non-poisonous, colorless germ destroyer in their drinking water. Sprinkle the nests, floors, roosts, coops with a dilution of this wonderful germicide and you will Knock the Roup Quick. Try it at our expense.

WITH B-K Bacili-Kil (32)

Sample Free B-K is not only the best germicide but the cheapest to buy—the easiest to use. It is ten times as effective as clear carbolic acid, yet it is perfectly safe to handle and keep about the house. For Cholera, Gapes, White Diarrhoea, etc., it has no equal. B-K does not cause your hens to drink less or slack up laying. Send for FREE SAMPLE BOTTLE—try it without cost. The result will please you. Don't wait—send NOW—while you can get B-K to try FREE.

GENERAL PURIFICATION Co., 601 Pioneer Bldg., Madison, Wis.

WHY INCUBATOR CHICKS DIE.

THE book entitled, "The History of White Diarrhoea, or Why Incubator Chicks Die," will be sent absolutely free by return mail, to anyone sending us the names of 7 to 10 of their friends that use incubators. This book can save you $100 this summer. It describes white diarrhoea or bowel trouble. The cause and tells of a cure. **Book Absolutely Free for the Names.**

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

F. K. REMEDY CO. 700 2d St. Arkansas City, Kan

NOLAN LICE KILLER

Send for our booklet telling how, after many years of trial to secure a remedy for our own use, we found a successful exterminator of Lice, Mites, Bed-bugs, etc., on poultry and live stock. It is absolutely guaranteed and is now quite well known over the state. Endorsed by prominent breeders, fanciers and hotel keepers. The book is free. You will learn how to get rid of the vermin on your live stock and bed-bugs from your home. Address

NOLAN BROS., RUTHVEN, IOWA.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

THE FIRELESS BROODER.

To the Editor of The Homestead:

Several subscribers have asked the writer to explain the fireless brooder mentioned in a recent issue of this paper. Some of the questions asked are:

Please tell me how to build a fireless brooder such as you mentioned in your recent article. Is the fireless brooder you mentioned patented? Have I the right to construct one for my own use? Explain the principle on which it is operated. Will it brood baby chicks without any application of artificial heat? What would such a brooder cost me and how long will it take to build one?

Compared with the more expensive brooders offered on the market, the fireless brooder is a homely looking affair, being constructed from a soap box or a few boards. We have made them in half an hour and have found that they will rarely cost over twenty-five cents each.

The best size for the fireless brooder is eighteen inches square and eight inches high. This size brooder will brood fifty chicks for the first week, twenty-five for the second week and fifteen chicks as long as they need brooding. After you have made the box part of the brooder, construct a frame of two-inch material that will fit in the inside of the box portion. Tack to this frame a strip of muslin so that it will sag in the center. Allow plenty of room to permit the muslin to sag properly.

Cut up an old quilt or small sack filled with cotton and place it over the muslin. This will aid in keeping the heat rising from the bodies of the chicks from escaping. As the weather grows warmer it is necessary to do away with this quilt altogether. You must use your judgment and do not use it on warm nights, or the chicks will lose all their feathers as a result of becoming overheated.

The fireless brooder is operated on the principle that the heat in the chick's body, if properly utilized, is sufficient to keep it warm, even during the coldest weather. By an application of sufficient "cover" this is retained and is ample to keep the little fellows comfortable. Because it is natural heat and is supplied in a way that cannot possibly injure the chicks, the chicks grow rapidly and are large and husky.

They are not bothered with a hen tramping on them or giving them lice and other pests to fight. They are given a fair start on life's journey which accounts for their rapid growth and development. The writer has had day-old chicks in these fireless brooders, when the coops and ground was covered with snow, yet they are as happy and contented as if it were a warm spring day. It is hard to believe this statement, we will agree, but if you will give it a fair trial, we are confident that you will use no other method of brooding next season.

It is necessary to provide some other shelter for the fireless brooder. It will not be at all successful if placed out by itself. You should either keep it in the barn or in some shed, or you can build a coop especially for the purpose. The coop should have plenty of windows and ample means should be provided for plenty of ventilation. This coop need not cost over $5 and it will last a lifetime. The chicks should be kept confined until they are at least three weeks old. If you allow them to run free from the time they are hatched, many of them will drop by the wayside and die, for they cannot stand wet grass or long tramps. They should be well feathered before you allow them their liberty.

The fireless brooder is not patented and everyone in the land that wishes to do so may make all he or she chooses without fear of infringing on the patent of any individual. Happily, the originator of the fireless brooder was a humanitarian and content to give something to humanity free of charge. Chesla Sherlock.

ENLARGED LIVERS.

The following inquiry has been received from W. R. Hukill, Appanoose county, Iowa.

Will you please tell me what to do for my chickens? The flock looks healthy, but two or three die every day. They droop around about twenty-four hours and then die. They are fat and in good condition. I cut one hen open and she was very fat and looked all right, except her liver was a little too large and the gall sack was very large. She had an egg with a hard shell on, ready to lay. They have had a good variety of feed all winter.

This trouble, hypertrophy or enlargement of the liver, is not so prevalent this winter as it was last year. The weather conditions have been more favorable, with the results that poultry of all kinds have been out of doors the greater part of the time, insuring fresh air and exercise.

Because your fowls droop around only about twenty-four hours does not signify that this is the beginning of the trouble. In the first stages it takes an alert care taker to detect

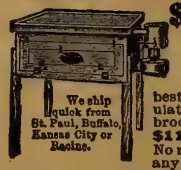
Remarkable Success With Incubator Chicks.

Dear Sir: I run several incubators and have good success with my hatches, but have lost thousands of the little downy fellows from bowel trouble. A lady recommended Walker's Walko Remedy, so I sent 50c (M. O.) for a box (postpaid) to the Walker Remedy Co., U9, Lamoni, Iowa. I tried it on 350 chicks and they grew very strong, being nearly full feathered at four weeks. I never lost one from bowel trouble. It is certainly fine for incubator chicks; gives them strength and vigor as well as preventing bowel trouble.—Mrs. A. D. Wells, Bolivar, Mo.—Adv.

140 Chicks from 140 Eggs

This World's Championship Record is not uncommon with users of my **Belle City** incubator. Many are doing this right along. The United States government is one of my 201,840 **Belle City** users. Make **Sure** of **Success** by using my **proof-backed Belle City.** Write me for all of the proofs or order direct from this ad. Jim Rohan, Pres.

Belle City Incubator Co., Racine, Wis.



We ship quick from St. Paul, Buffalo, Kansas City or Racine.

$7.55 Still Buys World's Champion 140-Egg Incubator

Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder, **$4.85.** Ordered together, **$11.50.** Freight Paid (E. of Rockies). No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time. Jim Rohan, Pres.

Belle City Incubator Co., Box 52, Racine, Wis.

The Hen That Never Cackles Seldom Lays an Egg—CHOLERINE Makes Her Cackle.—G. M. Co.

CHOLERINE FOR FOWLS

is a liquid Poultry Tonic, Blood Purifier, Body Builder and Egg Producer all in one. Keeps fowls thrifty, makes hens lay. Just the thing for chicks. For sale by dealers, or send $2 for one gallon express prepaid.

GERMO MFG. CO., SEDALIA, MO.

Eggs From Full Blood Stock Eggs

26 White or Brown Leghorn Eggs	$1.50
13 Barred or White Plymouth Rock Eggs	1.00
13 Silver or White Wyandotte Eggs	1.00
13 White Orpington Eggs	1.50
13 Rhode Island Red Eggs	1.00
13 Black Minorca Eggs	1.50
10 White Pekin Duck Eggs	1.00
10 Indian Runner Duck Eggs	1.00

100 Leghorn Eggs, $8. 100 White Orpington, $12. Others $8 per 100. 50c extra for 2 sittings or less by Parcel Post, otherwise by Express. Book orders early; will send when wanted

Remit by Postal, or Express Order, on St. Louis.

W. F. CHAMBERLAIN, (*The Perfect Chick Feed Man*)
Dept. 17, KIRKWOOD, St. Louis County, Mo.

55 BREEDS Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Collie Dogs. Send 4c for large Poultry book Incubator Catalog and Price List.

H.M. HINIKER, Box 32 Mankato, Minn.

PFILE'S 65 Varieties

LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1913. Write Henry Pfile, Box Freeport, Ill.

the trouble. It is very deceiving, and especially so because the comb keeps a bright red; abnormally so at some stages of the disease.

This enlarged liver business is solely due to improper feeding and lack of exercise. When the liver becomes greatly enlarged there is no cure. In the early stages, epsom salts, one teaspoonful to three or four hens, dissolved in water and given by bending a baking powder can so as to form a spout and pouring down their throats is the best known remedy. Great care is needed to prevent strangulation. Withhold all carbonaceous foods. Feed a little wheat in deep litter, keep them away from the hogs at feeding time and give all the green feed they will eat, any kind of vegetables you have stored—cabbage, turnips or potatoes. For the flock the salts may be administered in the drinking water.

Our correspondent is to be commended for examining her fowls. It is the only sure way of determining inward troubles.

TELLS WHY CHICKS DIE

J. C. Reefer, the poultry expert, of 1630A Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How To Cure It." This remarkable book contains some new scientific facts on white diarrhoea and tells how to prepare a simple solution that cures this terrible disease over night. Everyone interested in poultry should certainly write Mr. Reefer for one of these free books.—Adv.

POINTERS.

—Hawkeye Poultry Yards, Mount Pleasant, Iowa, have Belgian hares for sale. See advertisement in this department.

—Mrs. P. R. Coady, Melrose, Iowa, is offering Barred Plymouth Rock eggs for sale in her advertisement elsewhere in this department.

W. M. Black, Knoxville, Iowa, will guarantee satisfaction on his Buff Plymouth Rock eggs as advertised elsewhere in this department.

—Buff Plymouth Rock eggs are offered for sale by L. L. Woods, Grinnell, Iowa, in his advertisement appearing elsewhere in this department.

—"My flock of Single Comb Brown Leghorns," writes Miss Bertha Moyle, Hillsboro, Iowa, in furnishing copy for advertisement elsewhere in this department. "They have the run of the farm. They are healthy and vigorous and are headed by males of the best. I will ship nothing but strictly fresh eggs, well packed.

—O. E. Sutcliffe, Clarksville, Iowa, writes: "We have a grand flock of pure-bred Single Comb Buff Orpingtons from which we have culled all that were off in color or shape. They are a splendid laying strain. Eggs are dirt cheap at the prices we are offering them for." See advertisement elsewhere in this department.

—The advertisement of Mrs. J. F. Stolley, Granville, Iowa, offering eggs from White Langshans, White Plymouth Rocks, White Embden and China geese, White Mammoth Pekin and White Muscovey ducks will be found elsewhere in this department of The Homestead. Mrs. Stolley is quoting very reasonable prices on eggs from the different varieties of stock named above.

—The Evergreen Poultry Yards, Waterloo, Iowa, have an advertisement elsewhere in this department. In sending copy they write: "The eggs we are offering for sale are from our heavy-laying, prize-winning Buff Orpingtons. Our Ancona eggs are from our Chicago and Waterloo prize winners. Our mating list will be sent free."

—"I have some exceptionally fine birds that have won prizes wherever shown, and am better prepared than ever to furnish my customers with eggs this season," writes Mrs. T. A. Gough, Bristow, Iowa, who is offering Rose Comb Rhode Island Red and White Orpington eggs for sale in her advertisement that appears elsewhere in this department. "My utility stock has been carefully selected and is headed by scored cockerels."

—Mrs. James McNally, Victor, Iowa, has three pens of Barred Plymouth Rocks mated for this season's egg supply. Pen No. 1 is headed by a 90¾ Bradley cockerel mated to nine hens weighing up to nine pounds. Pens No. 2 and 3 are headed by 98 point birds. Her range flock contains hens weighing eight and nine pounds with cockerels good in both shape and color. One of her pens is new blood for old customers.

—Geo. W. Livingston, Monroe, Iowa, in sending copy for his advertisement, offering White Wyandotte eggs for sale that appears elsewhere in this department, writes: "We have some very choice pens and fine utility flock. The eggs we are selling are from stock scoring from 94 to 96 and not a cock or cockerel that is not standard weight or over. Our sales the past year were

Think of it! Uses Only One Gallon of Oil to a Hatch

Requires Only 1 Filling of Lamp

Lamp is underneath, in the center—Thus most even Temperature is kept all the time in egg-chamber. Oil tank holds 4 to 8 quarts—automatic trip cuts down flame at burner when egg-chamber gets too hot. No waste, no excess heat—So only 1 gallon oil is needed.

Freight Prepaid.

X-RAY INCUBATOR

—has 2 double-glass panels on top. Thermometer always in sight. Tank has to be filled just once—not every day. Write TODAY for Big FREE BOOK No. 41 —Learn all about only incubator made on right principle. Shipments guaranteed same day order is received. We pay freight.

THE X-RAY

X-RAY INCUBATOR CO., Wayne, Neb.

STANDARD AMERICAN EVERYWHERE Well Drilling Machines

Tested, Proved Reliable by forty-four years' use in nearly all parts of the world. Many men earn big incomes with some one of our 59 styles and sizes. They use any power. Made for drilling earth, rock and for mineral prospecting. Large catalog No. 120, FREE.

THE AMERICAN WELL WORKS

General Office and Works: AURORA, ILL.

Chicago Office: First National Bank Building

When writing to advertisers please mention The Homestead.

You men who drive in the country

UNITED STATES TIRES

will *cut down* your tire bills

The average mileage yielded today by United States Tires is from 25 to 50 per cent greater than that given by any make of tires previous to the formation of the United States Tire Company, two years ago.

Our own records prove this.
Every unprejudiced dealer in the country will admit it.

Ask your friends who are using United States Tires, how much more mileage they are getting now than they were getting in 1910.

Two years ago we predicted that concentrating the efforts and facilities of four of the world's most modern tire making plants, on the making of one line of tires, would result in the most radical reduction in tire expense ever known to the industry.

We have made good our prediction.

United States Tires have today come to be everywhere acknowledged as

America's Predominant Tires

The simple reason back of it is this—they have cut down tire bills.

UNITED STATES TIRE COMPANY
NEW YORK

BRAHMAS.

LIGHT Brahma cockerels, pure-bred fancy stock. Also eggs for hatching, 1st pen, 15, $2; 2d pen, $1.50 or $3 per 100. Write Mrs. Geo. Craig, Afton, Ia.

LIGRT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 8c; 265 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

MY HEAVY-WEIGHT LIGHT BRAHMAS won seven premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

ANCONAS.

Pure-bred S.C.Ancona Eggs for Sale $1.75 for 15, pen No. 1; $1.25, pen No. 2. Special prices for 50 or more. L. B. Anderson, Botna, Iowa.

Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

RED CAPS.

ENGLISH Red Caps. Eggs from imported English Red Caps $4 per sitting. These birds are direct from London prize winners. Imported stock only. Address LEE O. WOLFE, Titonka, Iowa.

SQUABS.

SQUABS, large profits. I have the finest lot of breeding homers for sale I have ever offered. Send for price list. Joe F. Nolan, Ruthven, Iowa.

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific, $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS EXCLUSIVELY

STOCK AND EGGS SHIPPED ON APPROVAL

Score Card by Shellabarger Accompanies Each Bird.

YOU are privileged to pass upon the merits of the stock before accepting it. Eggs not fertile will be replaced. As to my reliability, you are invited to inquire of any bank or business firm in the city. HENRY C. WALKER, IOWA CITY, IA.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address H. E. HUSTON, - Iowa Falls, Iowa

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I. REDS

REDS 75 cents per 15 or $4 per 100. Pen No. 1 $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed. J. B. HEISEL, - Grinnell, Iowa.

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive circular. Address P. H. THIEL, - Renwick, Iowa.

SINGLE COMB REDS

EGGS that will hatch, at right prices, from my prize-winning, skin-deep Reds; the kind that pays; start today with this popular breed. Send for my free mating list. L. G. Johnson, Box H, Steamboat Rock, Ia.

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15; pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also F. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address E. L. DICKERSON, Rugan, Nebraska.

PRIZE-WINNING R. C. R. I. REDS Long, back, big bone, red eyes and low tail. Score 92½ to 95; won 13 ribbons at last show; 4 ribbons from R. I. Red Club of America for best shape and color. Eggs $2.50 and $5 per 15. Circular free. Address C. B. Alverson, Moravia, Iowa.

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culvordale Farm, Red Oak, Ia.

SINGLE COMB RHODE ISLAND REDS

GET your eggs for hatching from prize winners. Four grand pens, headed by 2d, 4th cockerels, Dubuque; 1st, 4th ckls., Oelwein. Prices reasonable. Send for mating list. C. E. Hayes, Box A, Lamont, Ia.

S. C. R. Reds Exclusively Winter laying strain, fine type and color. Eggs $1.50 and $1 for 15, $5 per 100. Write Mrs. W. L. Stoner, - Henry, Illinois.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. RED EGGS for sale from 6 choice pens headed by show winners. When you buy here you get the best. Address O. A. Knerr, Beaver Crossing, Neb.

S. C. REDS Eggs from vigorous stock and great winter layers. Fertility guaranteed. Eggs, $1 per 15; $3 per 50; $5 per 100. Address Woodlawn Farm, Sterling, Illinois.

R. C. R. I. RED EGGS Limited number of eggs from 2 fine pens. Write for prices. John Webb, Jr., Spirit Lake, Iowa.

S. C. RHODE ISLAND RED Eggs $1.00 per sitting. Few pullets for sale. Sarah Lowe, Clarksville, Iowa.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address THE RED FARM, Luverne, Iowa.

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R. 1, Box 3, Wahoo, Neb.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address MRS. GEO. W. GODLOVE, Riverside, Ia.

S AND R. C. Rhode Island Reds. DeGraff and Tuttle strains. Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

FOR sale. R. C. and S. C. R. I. Red ckls. for utility, extra choice ones. Eggs at bargain prices. C. W. Orp. Orders booked. Mrs. T. A. Gough, Bristow, Ia

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. C. F. BATTELS, Indianola, Iowa.

Eggs for Hatching S. C. R. I. Reds. $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. RHODE ISLAND REDS large size, red to the skin, a laying strain. Eggs $2.00 per 15. E. M. Thompson, Independence, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address George Hunt, Earlville, Iowa

S. C. R. I. RED EGGS Pen 1 $2 per 15; farm flock $1 per 15; $5 per hundred. Address Mrs. Sophia Rader, Laurel, Iowa.

S. C. Rhode Island Red EGGS FOR HATCHING, choice sitting, 15 for $1.50. Other eggs 100 $6. Mrs. Geo. Turpen, Jefferson, Iowa.

TOP notch S. C. R. I. Reds. Two good matings. Eggs $1.00 and $1.50 per 15. Good range flock $4.00 per 100. W. E. Briggs, R. 2, Woodbine, Iowa.

RHODE ISLAND REDS.

Our Blood Red Strain S. C. R. I. Reds are those vigorous, big-boned, long-bodied, rich, even, glossy reds, with that marvelous winning quality. They were silver cup winners in every show entered the past season. Look up their record of blue ribbons won, not only in our hands, but in the hands of our customers. Eggs, Pen No. 1, $10; Pen No. 2, $5; Pen No. 3, $3; Pens 4, 5, 6 and 7, $2 per 15; $7 per 100. F. L. Reinhard & Son, Ottumwa, Iowa.

RHODE ISLAND REDS EGGS from my select flock of heavy laying birds. $1 for 15; $5 for 100. Send your order at once. Mrs. Jake Waltemeyer, Melbourne, Ia.

"Allendale" R. C. R. I. Reds AT 1913 Burlington show, won 1st cockerel, 1st pullet and 2d pen with only five birds exhibited. Mating list free. Eggs for sale. Honest Dealing guaranteed. Mrs. J. H. Allen, New Sharon, Ia.

S. C. RHODE ISLAND REDS RANGE of 300 full blood birds. Eggs $5 per 100. Express prepaid. Shipped in folding egg cases. No broken eggs. One exhibition pen, either comb. $2 per 15. laying hens, $1.50 each. Address F. O. MARTIN, - - FLOYD, IOWA

S. C. R. I. REDS EXCLUSIVELY. EGGS from choice breeders at $1 to $5 per 15. Send for mating list. Address J. A. Holmes, Steamboat Rock, Iowa.

RoseCombReds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain, sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R.C. Rhode Island Red Eggs Exhibition and laying strain; 1st pen $5.00 per 15; 2d, $3; 3rd, $1.50. Fertility guaranteed. Red Poultry Farm, Randalia, Iowa.

R.C.RHODE ISLAND REDS EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

R.C.R.I.REDS Exclusive breed. Eggs from farm raised, high-scoring stock; first pen $2.00, second pen $1.00 per 15. Can fill orders at once. Write me. Mrs. S. J. Marsh, R. 5, Knoxville, Ia.

S. C. R. I. REDS—Great layers of large brown eggs; 15, 75c., 75, $2.50. Eggs guaranteed fresh. Address Mrs. Henry Queckborner, Chadwick, Ill.

S. C. R. I. RED EGGS from great laying strain that are red. $1 per 15; $5 per 100. Address J. E. LEWIS, Brayton, Iowa.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.50 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

R.C.Rhode Island Red Eggs $1.50 per 15. Good utility stock. W. P. Nicholas, Kirkwood, Ill.

Eggs for Hatching S. C. R. I. Reds, 15 for $1; 100 for $5. Address Mrs. Harry Evans, Bedford, Iowa.

EGGS from pure blood, high-class S. C. Rhode Island Reds. 75 cents for 15; $4 for 100. Address Mrs. S. A. Spalti, Pleasantville, Iowa.

EGGS from thoroughbred Reds (either comb) 15, $1; 100, $6. Special pen $2.50 per 15. Laying hens, $1.50 each. Mrs. A. Laun, Riverdale Farm, Floyd, Ia.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

For Sale R.C.R.I. Red eggs $1 per sitting of 15; $6 per 100. Good farm range. Nettie Amundson, R. 1, Box 2, Soldier, Ia.

ROSE Comb Rhode Island Red eggs from high-scoring farm flock. $10 per 100, express prepaid. WILLOW RIDGE, Emmetsburg, Iowa.

Eggs from Farm Range R. C. R. I. Reds 75c per 15; $4 per 100. Pen 1, $12 per 100; $2 per 15. Mrs. J. E. Brooker, Van Meter, Ia.

R. C. R. I. Reds; farm raised, laying strain. Pen scoring 91 or better 15, $3; pen No. 2, $2; range 15, $1; 100, $5. C. D. Jackson, R. 5, Grinnell, Iowa.

SINGLE Comb Rhode Island Reds exclusively. Fine breeding, vigorous farm-raised stock, eggs for hatching, 15, $1; 100, $5. R. H. Ortman, Bancroft, Ia.

R. C. R. I. EGGS from choice range flock, $1.00 per 15 or $5 per 100. Can ship from DeSoto. Write for circular. Mrs. T. J. Link, R. 2, Winterset, Iowa.

EGGS Rose Comb Reds, pen 1, cockerels score 93¼, 15, $1.25; 100, $5.50. Pen 2, 15, 75cts; 100, $3.50. Address Miss Maggie Henning, Ira, Iowa.

S. C. R. I. Reds Exclusively from prize-winners, $5 per 105, $1 per 17. Address I. C. WELCH, - BEDFORD, IOWA.

EGGS—S. C., R. C. R. I. Red & Kellerstrass. Crystal White Orps., $1 per sitting. Prize-winning pens, $3 to $10 per sitting. Mrs. T. A. Gough, Bristow, Ia.

S.C.R.I.RED EGGS $1.50 per 15, single setting only, from one choice pen, cock scores 91½. C. W. Kellogg, Rockwell City, Iowa.

S. C. Rhode Island Red Eggs for hatching. Farm range. $1.50 for 15 or $8 for 100. Mrs. W. R. Watson, Oakland, Iowa.

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

MINORCAS.

EGGS S. C. Black Minorca, blue ribbon, ideal laying strain, FERTILITY TESTED, setting of 15 eggs from three choice hens, $3, $2, $1 each. Mixed $1.50. Liberal discount for larger orders. C. G. DAKE, Epworth, Iowa.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

BLACK MINORCA Eggs in season, 15 for $2. 30 for $3.50, 50 for $5.00, Address H. L. Simpson, R. R. 13, Epworth, Iowa.

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

GOLD MEDAL STRAIN BLACK LANGSHANS, high-scoring birds; eggs $1.50 per 15. Address A. KOOL, Cordova, Iowa.

BLACK Langshans, winners Keosauqua, Ottumwa, Fairfield; score 93-95. I. R. Ducks, score 95-97½, farmers' prices, cir. Bert A. Randell, Mt. Zion, Ia.

BLACK Langshan ckls. for sale. Winners of sweepstakes ckl. and 1st pen. 1, 2, 3, 4 pullets in Whitesville show, 1912. Mrs. Luella Peter, Whitesville, Mo.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

BLACK LANGSHANS Large-boned cockerels $2.00 each. Three $5.00 Eggs in season. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

Black Langshans Ckls. all sold. I am booking orders for eggs now. Birds scoring 90 to 95 points. CAP OAKS, Adair, Iowa,

BLACK LANGSHAN EGGS for hatching. Fine, large-boned, farm stock. 75c per 15 or $4 per 105. Mrs. Jacob Conner, Sigourney, Ia.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville. Iowa

EGGS from full blood Black Langshan. Stock unusually large. Good winter layers. 15 for $1. Orders filled now. Mrs. Chas. Banks, Carlinville, Ill.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge. Iowa.

PLYMOUTH ROCKS.

HAWKINS - BRADLEY - THOMPSON

BARRED Plymouth Rocks. Our yard is headed by Bradley cockerels scoring 91¼ to 94½. Birds have fine style and excellent plumage, being barred to the skin. Prize winners wherever shown. We guarantee fair hatch and safe delivery. 15 eggs $1; 30 eggs $2; 50 eggs $3; 100 eggs $5.50.

H. C. Saunders & Son, - Montezuma, Iowa.

WHITE PLYMOUTH ROCK EGGS FLOCK consists of 150 pullets selected from 400 and mated with 11-pound pure-white cockerels. Prices $1.00 for 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Order from this ad.
JAS. JENSEN & SONS, NEWELL, IOWA.

Barred Rock Eggs for hatching. These are cheap quality considered; pen A, $3 per 15; pens B and C, $2 per 15; range flock, $1 per 15 of $5 per 105. A few ckls. left. Chas. McCaskey, R. 2, Ogden, Ia.

R. C. R. I. EGGS STOCK all red to skin; big boned, low tail, red eyes; choice of flock of 400; eggs $1.50 per sitting, $8.00 per 100. Address Mrs. F. B. Dann, DeWitt, Ia.

BUFF ROCKS Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address L. L. Woods, Grinnell, Iowa.

WE have a fine flock of B. P. Rock chickens, well barred, large boned; also have large-boned M. B. turkeys and Toulouse geese, try to please customers, order early. Mrs. Robt. Hunt, Earlville, Ia.

Buff Plymouth Rock Eggs FROM a pure-bred and excellent laying strain. 15 eggs, $1.50. Mrs. Lee Ruggles, Birmingham, Ia.

BRADLEY BARRED ROCK EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia,

EGGS from large B. P. Rocks. Pens 1 and 2 headed by 2 ckls. weighing 9½ and 9 pounds each. Now offering eggs from choice matings. Special prices to Homestead readers. J. L. Todd. R. 3, Des Moines, Ia.

FOR SALE Eggs from full-blooded B. P. R. chickens. Cockerels weigh 9½ lbs; hens 8 lbs; well barred.—$1.50 for 15; $5 for 100. Mrs. M. J. McKenna, - Rock Rapids, Ia.

WHITE ROCK EGGS Send me your orders now for future or present shipment. Write B. W. Eckels, Nevada, Iowa

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose. Ia.

EGGS for hatching from large choice Barred P. Rocks, good narrow barred $3.75 per 100, or 75c per 15. Address Mrs. Earl McLain, Bennett, Ia.

W. P. R. Exclusively. Carefully selected stock. Eggs $1.25 per 30 or $3.50 per 100. Address Mrs. W. S. Huber, Tipton, Iowa.

White Rock Eggs Selected and guaranteed. Write for prices. Address Mrs. Myrtle Carter, Panora. Iowa.

White Rocks White View Farm. Fishel strain. Eggs $1.50 for 30, $2.25 for 50, $4 for 100. Address Mss. C. E. Pugh, Menlo, Iowa.

Barred Rock Eggs From 3 pens. Ckls. scoring up to 90¾. $1 to $1.50 per 15. Range flock $4 per 100. Mrs. Jas. McNally, Victor, Iowa.

WHITE P. Rocks, S. C. R. I. Reds. 15 Eggs parcel post $1.75. Express $1.50. Safe delivery and fertility guaranteed. Mrs. G. W. Alberts, Leigh, Neb.

Barred R. Eggs 100 for $4. 15 for $1. Stock bred from Iowa state show winners. Premium Poultry Yards, R. 6, Newton. Iowa.

all made through The Homestead. We have discarded all other advertising papers. We find the demand from The Homestead takes more than we can possibly raise."

—Elsewhere in this department of The Homestead appears the advertisement of L. Peasley, Fairfield, Iowa, quoting prices on White Orpington eggs.

—White and Silver Laced Wyandotte eggs are advertised for sale by Malmberg Bros., Red Oak, Iowa, in their advertisement elsewhere in this department.

—Mrs. F. O. Elliott, Kent, Iowa, can supply Homestead readers with White Wyandotte eggs at prices named in her advertisement elsewhere in this department.

—Mrs. Myrtle Carter, Panora, Iowa, is advertising selected and guaranteed White Plymouth Rock eggs for sale in her advertisement appearing elsewhere in this department.

—If wishing to purchase Rose Comb White Leghorn eggs the advertisement of Mrs. J. L. Anderson, Fostoria, Iowa, appearing elsewhere in this department will be of interest.

—The White Wing Poultry Farm, Perry, Iowa, advertises for sale under the proper headings in this department White Wyandotte and White Orpington eggs and baby chicks.

—Eggs from carefully selected White Plymouth Rocks are quoted for sale in the advertisement of Mrs. W. S. Huber, Tipton, Iowa, appearing elsewhere in this department.

—Chas. F. James, Lockridge, Iowa, is a breeder of Single Comb Buff Leghorns exclusively. He is quoting prices on eggs in his advertisement elsewhere in this department.

—Mrs. W. R. Watson, Oakland, Iowa, can supply Homestead readers with Single Comb Rhode Island Red eggs from her farm range flock at prices elsewhere in this department.

—Mrs. G. W. Alberts, Leigh, Neb., is advertising White Plymouth Rock and Single Comb Rhode Island Red eggs for sale in her advertisement appearing elsewhere in this department.

—Under its proper heading elsewhere in this department of The Homestead appears the advertisement of Geo. N. Urice, Vinton, Iowa, quoting prices on Rose Comb Brown Leghorn eggs.

—Prof. H. E. Bowman, Randolph, Iowa, breeds Rhode Island Reds of both combs. He is offering eggs from fine winter layers in his advertisement elsewhere in this department.

—Mrs. Earl McLain, Bennett, Iowa, has Barred Plymouth Rock eggs from large, choice stock, of good, narrow barring, for sale at prices named in advertisement elsewhere in this department.

—Mrs. C. E. Pugh, Menlo, Iowa is prepared to furnish The Homestead readers with White Plymouth Rock eggs at prices named in her advertisement appearing elsewhere in this issue.

—Mrs. Lee Ruggles, Birmingham, Iowa, is offering Buff Plymouth Rock eggs for sale from a pure-bred and excellent laying strain, in her advertising that appears elsewhere in this department.

—R. H. Ortman, Bancroft, Iowa, has Single Comb Rhode Island Red eggs for sale at prices named in his advertisement found elsewhere in this department. He has a vigorous farm-raised flock.

—Partridge Wyandotte, Rose Comb Brown Leghorn and Single Comb Black Minorca eggs are offered for sale by J. A. Spangler, West Chester, Iowa, in his advertisement appearing in this department.

—Dan McCarty, Winthrop, Iowa, in furnishing copy for advertisement offering Single Comb White Leghorn eggs for sale, writes: "I have a choice flock of pure White Leghorns that are regular egg machines."

—Mrs. Wm. Hudson, Lake City, Iowa, can furnish Homestead readers with Single Comb Brown Leghorn eggs from her farm range flock. Prices are named in the advertisement appearing elsewhere in this department.

—G. H. Burge, Mt. Vernon, Iowa, is offering Silver Laced Wyandotte eggs for sale from prize-winning stock. His advertisement giving winnings at different shows and prices of eggs appears elsewhere in this department.

—Eggs from full blooded Barred Plymouth Rock cockerels we ghing nine and one-half pounds and hens weighing eight pounds are offered for sale elsewhere in this department by Mr. M. J. McKenna, Rock Rapids, Iowa.

—Eggs from pure-bred Rose Comb Brown Leghorns, bred for size and laying qualities, from free-range stock, are offered for sale by E. E. Snively, Jefferson, Iowa, in his advertisement appearing elsewhere in this department.

—Elsewhere in this department of The Homestead appears the advertisement of Mrs. Nelson Hyde, Manson, Iowa, in which she is quoting prices on Rose Comb Brown Leghorn eggs from a farm range flock and from high-scoring male stock.

—Prices on Single Comb Rhode Island Red eggs from a range flock of 300 birds and also from exhibition pens, either Single or Rose Comb, are named in the advertisement of F. O. Martin, Floyd, Iowa, that appears elsewhere in this department.

—George Boyce, Newell, Iowa, whose advertisement appears elsewhere in this department, writes: "We have spared no expense in building up our flock of Rose Comb Brown Leghorns. For size, vigor and laying qualities they are excellent. We breed the fine, low-pointed comb to withstand our cold climate. Have had no trouble whatever

PLYMOUTH ROCKS.

White Plymouth Rock Eggs PEN No. 1 is headed by 1st cockerel at Grinnell. Pen No. 2 is headed by a cockerel that was sired by a cockerel that was GRAND CHAMPION at Detroit, Mich., in 1912; eggs from these two pens $2 per 15. My utility flock is headed by cockerels scoring 94 and 95; all birds weigh 8 to 11 lbs. each. Utility eggs, $1.00 per 15; $2.00 for 30; $3.00 for $50; $6.00 for 100. Address CHAS. L. BERRY, Iowa City, Iowa.

EGGS from PRIZE MATINGS I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellenbarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address HENRY LINKE, - Wayne, Nebraska.

Barred Plymouth Rock Eggs FIFTEEN for $1; 30 for $1.75; 100 for $5. Stock scoring to 93½. Grand in size, males weigh 10 to 12 lbs.; Blue ribbonwinners. My customers are not disappointed when chicks are grown. Hawkins, Thompson and Bradley strains. Guaranteed good hatch and safe delivery. Catalog free. Address S. V. LATCHAM, WOODWARD, IOWA.

1898 BUFF ROCKS 1913 EGGS from 3 exhibition matings at $3 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings. M. E. KRAFT, - Brooklyn, Iowa.

"PARTICULAR" BARRED PLYMOUTH ROCKS THE winning and laying kind; eggs $2.50, 15; $4.30. Pen 1 headed by a son of our 1st ckl. S. D. State Show. Pen 2, ckl. of same line, eggs from a bunch headed by 6 choice ckls., $1.25, 15; $2, 30; $5, 100. Good hatch guaranteed. J. M. Detwiler, R. 3, Dunlap, Iowa.

BARRED ROCK EGGS COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

EGGS FROM QUALITY BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $5 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

Elm Hill Farm Barred Rocks "Weight with Quality" SEND for catalog of matings, prices, winnings and description of stock. Address J. E. GOODENOW, MAQUOKETA, IOWA

Barred Rock Eggs FROM first prize winners and pure Bradley stock. Both cockerel and pullet mating, $3 to $5 per 15. $6 per 100. Stock at all times. Write for circular. ALBERT A. FOSTER, Russell, Iowa.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia,

BARRED PLYMOUTH ROCKS Hawkins, Bradley strains. Eggs for hatching from choice stock, large and vigorous, 15, $1; $5 per hundred. Mrs. C. H. Case, Elliston, Iowa.

EGGS—Barred P. Rocks; from 10-pound female, 12-pound males. State show first-prize winners. Free catalog showing real photos of prize winners. A. D. MURPHY & SON, ESSEX, IOWA.

BUFF ROCKS High-scoring, with trap-nest and show records. Proven winter layers. Eggs: 15, $1, $2, $2.50; 100, $5. Catalog, chicks. M. B. turkey eggs. Write M. Henningsen, Dike, Ia.

WHITE ROCKS Great layers. Flock headed by birds from Fishel's Red Eyes. 5 point comb. Eggs, 15 for $1; 100, $5. Pens $2. Baby chicks 15c. Mrs. M. Baird, R. 8, Red Oak, Iowa.

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B. Winthrop, Iowa.

EGGS from Grove Hill strain B. P. Rocks. Extra good layers. From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock, R. 5, Neola, Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100, $4. Write for particulars. Grant Lynn, Spirit Lake, Ia.

WHITE Rocks, 92 to 95¼; eggs $2.00 per 15, utility flock $1.00 per 15 or $5.00 per 100. Address MRS. JAS. PEDLEY, R. 3, Britt, Iowa.

EGGS from H.S. Barred Rocks and S.C.R.I. Reds. $1.50 per 15, $3 per 50, $5 per 100. Also M. W. P. ducks $1.50 per 11. Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

B. P. R. eggs for hatching, from large well-barred birds. Good laying strain. 15 for $1.00, 45 for $2.25, 105 for $5.00. Mrs. J. H. Heilman, Holstein, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

PURE-BRED Barred Plymouth Rock Eggs, $1.25 for 15. Write for larger amts. Large and well-marked birds in season. Wess Whetstine, Wellman, Ia.

B. P. R. eggs from large, fine, barred birds; good laying strain; ckls. scored 90-92½; wt. 10-12 lbs. 15, $1.50; 30, $2.25. G. J. Pfeil, R. 3, Central City, Iowa.

EGGS FOR HATCHING—B. P. Rocks, large boned, narrow barred, good laying strain. $1.00 for 15, $6.00 for 105. James H. Howarth, Moulton, Ia.

Barred Rocks Exclusively EGGS $1 per 15; $1.50 per 30 or $4.00 per 100. ASA ANDERSON, New London, Iowa.

BARRED Rocks, finely barred, large boned, bred to lay. Score 93. Fawn and White I. R. duck eggs, 13, $1.50; 50, $5. Charles Clarke, R. 2, Greene, Iowa.

BARRED Plymouth Rock eggs from pure-bred, well-barred, heavy-boned stock. 15, $1.25; 50, $2.50; 100, $4. Henry Angerer, R. 1, Wilton Junction, Ia.

EGGS Pure-bred Barred Rocks, $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

PLYMOUTH ROCKS.

WHITE PLYMOUTH ROCKS AND WHITE PEKIN DUCKS CHOICE flock of White Rock pullets mated to cocks scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30; $3 per 45; $7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn. Mated to him are 9 hens weighing 10 lbs. ea. Eggs $3.00 per 15; $5.00 per 30. Extra good flock of ducks headed by drakes which were sired by fowls scoring 97 points. Eggs $1.50 per 11; $2.00 per 22; $4.00 per 50.. Fair hatch guaranteed or eggs replaced at half price. Send for circular. **John W. Housolog, Bellevue, Iowa.**

STRATER BROS., Monroe, Iowa, breeders of

Barred Plymouth Rocks

34 years with size and quality and the best of layers. Prize winners and sired by prize winners. Eggs, $1.25 per 15, $2 per 30, $6 per 100. Special mating, $5 per 15. Prompt shipment.

B. P. Rock Eggs for Hatching FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price, 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

BARRED P. ROCK EGGS Hawkins, Thompson and Bradley strains; from high-scoring, good laying stock, having farm range; heavy bone and clear, narrow barring. Males weigh 10 to 12 lbs., females 7 to 9 lbs.; 15 eggs $1.25; 30, $2.25. Mrs. Elsie Noble R. 2, New Boston, Ill.

EGGS From standard exhibition Barred Plymouth Rocks, Bradley strain. Pens contain many birds closely related to noted Chicago show winners, large size, splendid markings. Price $2 per 15. Also eggs from choice pen of W. Wyandottes $2 per 15 eggs. Mrs. H. J. Hess, R. 6, Waterloo, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wyds., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Bachman, Blakesburg, Ia.

"RINGLET" BARRED PLYMOUTH ROCK EGGS FROM prize-winning birds, from all pens, $2.00 per sitting. H. M. Scott, 903 Iowa St., Vinton, Iowa.

FISHEL WHITE ROCKS direct. Eggs for hatching from high-scoring and prize-winning stock at reasonable prices. Address Mrs. A. Barclay, R. 2, Madrid, Ia.

WHITE P. ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

WON with my B. P. Rocks 1st, 2d P., 2d pen, 3rd hen, 3d ckl. Ia. State Fair; 2d P., B. ckl. 3d P. Cedar Rapids; silver cup, 17 ribbons at 3 other shows. Cir. free. Eggs 15, $2.50. Mrs. H. I. Branson, West Branch, Ia

WHITE P. Rock eggs for hatching, 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15, $3. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

PURE-BRED White Rock eggs; birds scoring 91½ to 95¾. Pen, 15, $3.50; 100, $12. Range, 15, $1.50; 100, $5.50. **H. L. NEFF, Dallas Center, Iowa.**

EGGS from large White Rocks at 5 cents per egg. Address **Mrs. H. Wood, Moville, Ia.**

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.50 per 15; $7 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BARRED Plymouth Rocks, Pekin ducks, W. H. turkeys; eggs, Rocks 15, $1.25; 30, $2; ducks 10, $1.50; turkeys, 10, $3.50. Fred Post, Mouiton, Iowa.

Barred Rock eggs; bred to lay, Bradley strain, largest type, best breeding; choice pens $2 and $3 per 15; utility 15, $1.50. Mrs. S. M. Thompson, Birmingham, Ia.

FOR SALE Eggs for hatching from select pen of Buff Rocks. Fertility guaranteed. Will A. Petersen, 1423 Cedar St., Muscatine, Iowa.

Barred Rock Eggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

BARRED Plymouth Rocks, pullet mating, Headed ckls. of Latham and Winikee strains. Eggs 15 $1; 100 $5. H. V. Hethershaw, R. 6, Des Moines, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

THE FARMERS' FOWL Barred Plymouth Rock eggs for sale. Write Mrs. Fred Sievers, R. 1, Audubon, Iowa.

White P. Rock Eggs 100, $2.50; 15, $1. Mrs. O. P. Constable, Norwalk, Ia.

BARRED ROCK EGGS. Thompson's Imperial Ringlet stock direct. Also Bradley Bros. strain. Send for mating list. Mrs. Wm. Stoll, R. 10, Le Mars, Ia.

WHITE Rocks, farm raised, Fishel strain, cockerels score 93½ to 96. Eggs 15, $1; 50, $3; 100, $5. Address Mrs. A. H. Klepper, R. 1, Muscatine, Iowa.

EGGS for hatching from White Plymouth Rocks at $1 per 15; $3 per 50; $5 per 100. Farm raised, high-scoring. Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

WHITE, Buff and Barred Plymouth Rock eggs from prize-winning show stock; strictly first pen offer. Address E. L. Henke, Atlantic, Iowa.

BARRED PLYMOUTH ROCK EGGS $1 per sitting, $4 per 100. White Embden geese eggs $2 per sitting. A. A. Jaynes, Osgood, Mo.

Buff Rocks Only Fine birds. Best breeding. Eggs $1.50 for 15. Satisfaction guaranteed. W. M. Black, Knoxville, Iowa.

In that respect. All eggs will be properly packed, little end down in H. & D. patented egg boxes, and labeled "eggs for hatching," to insure safe arrival."

—Chas. McCaskey, Ogden, Iowa, has a number of pens of Barred Plymouth Rocks from which he can furnish eggs at prices named in his advertisement appearing elsewhere in this department. Mr. McCaskey also has a few cockerels left.

—Edward Meyer, Dyersville, Iowa, writes: "I am prepared to furnish eggs from high-scoring, prize-winning Partridge Wyandottes and from extra large Pekin ducks of a good-laying strain." See advertisement elsewhere in this department.

—"My Single Comb Rhode Island Red pullets and hens are mated to extra fine quality males and fertility of eggs will be guaranteed," writes I C. Welch, Bedford, Iowa, in furnishing copy for his advertisement appearing elsewhere in this department.

—If wishing to purchase Mammoth Bronze turkey eggs the advertisement of H. U. Arthur & Sons, Spirit Lake, Iowa, that appears elsewhere in this department will prove of interest. They are offering eggs from carefully selected, big-boned turkeys all nicely marked.

—Mrs. Chas Lasley, Floris, Iowa, writes: "I have a fine flock of Rose Comb Brown Leghorns in the best of condition. Cockerels are new blood from a good strain. No stock for sale." Prices on eggs will be found in the advertisement elsewhere in this department.

—The advertisement of A. D. Murphy & Son, Essex, Iowa, offering eggs from Barred, White Buff and Partridge Plymouth Rock, Buff Orpington, White Wyandotte, Single Comb Rhode Island Red chickens and Mammoth Bronze turkeys appear selsewhere in this department.

—For thirty-four years Strater, Bros., Monroe, Iowa, have been breeding Barred Plymouth Rock chickens. Their flock is composed of birds having both size and qaulity. The price at which they are offering eggs is named in the advertisement appearing elsewhere in this department.

—James Jenson & Sons, Newell, Iowa, have a flock of 150 White Plymouth Rock pullets selected from 400 and mated with eleven-pound pure white cockerels from which they will be able to furnish eggs to Homestead readers at prices named in their advertisement appearing elsewhere in this department.

—F. L. Reinhard & Son, Ottumwa, Iowa, have advertisements in this department, one under the head of Single Comb Rhode Island Reds, one under the head of geese and one under the head of ducks. They are quoting prices on eggs from the three different breeds that will be of interest to Homestead readers who contemplate purchasing.

—Thomas L. Morlan, Indianola, Iowa, who is advertising eggs for sale elsewhere in this department, writes: "I have disposed of my surplus stock and am now offering eggs from strictly first-class Partridge and Buff Wyandottes for sale. I have three yards, 100 hens, headed by high-scoring males. My whole flock will average a score of 90½. Those wanting eggs should order early."

—Mrs. Isaac W. Black, Macomb, Ill., has been a breeder of Barred Plymouth Rocks for eighteen years, selecting each year her best layers for her pens. She has an elegant laying strain. Her Buff Orpingtons are good layers and are buff to the skin. She states that her Buff turkeys are the kind "that come home to roost." She writes: "The Homestead gave me the best results of any paper I ever advertised in. I could not nearly fill the orders for cockerels." See her advertisement elsewhere in this department.

—Elsewhere in this department appears the advertisement of H. C. Saunders & Son, Montezuma, Iowa, offering Barred Plymouth Rock eggs for sale. In furnishing copy they write: "This is our sixteenth year in the business. Care and attention to our Barred Plymouth Rocks make them the best we have ever had. They are large, well boned and of excellent plumage. They have free range of the farm." For prices and other information write the address named and mention The Homestead when writing.

—N. W. Scales, Iowa City, Iowa, whose advertisement offering eggs for sale appears elsewhere in this department, writes: "I have as good a strain of White Wyandottes in shape and form and as layers as any breeder. Our stock came from R. W. Wales' strain, one of the best breeders in the United States. My pen of show birds was selected by Mr. Wales and the cockerels at the head, so Mr. Wales informs me, could have won first at Cedar Rapids if I had shown him. My farm flock is almost as good, having cockerels at the head that would be a credit to any flock."

—Elsewhere in this department of The Homestead appears the advertisement of R. O. Dickson, proprietor of the Premium Poultry Farm, La Harpe, Ill. Mr. Dickson is a breeder of Indian Runner ducks, Single Comb White Leghorn and Barred Plymouth Rock chickens. He makes a specialty in Indian Runner ducks and White Leghorns and reports a good trade in utility stock. He is prepared to furnish several other varieties from nearby fanciers. He has about 150 Indian Runner ducks in five matings and will be able to take care of a large trade in eggs or baby ducks. The price at which he can furnish same and also baby chicks will be found in the advertisement above referred to. If interested write him for circular mentioning The Homestead.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. **R. R. STEWART, R. 2, Charles City, Iowa.**

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address **DAVENPORT & MACK, Belmond, Iowa.**

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00; 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address **R. S. Ketcham, Box H, Boonville, Indiana.**

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93¼. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs. Will Michael, Selma, Iowa.

S. C. W. LEGHORN eggs by the 100. It is not the price that is high but the quality. Write me your wants. J. W. Robinson, Route No. 1, Truro, Iowa

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 **A. B. JORDAN, - Moravia, Iowa.**

S. C. W. Leghorns; eggs from a strain with blood lines well established; $4.00 per 100, $1.00 per 15; Also fancy imported pen (Campbell strain of Canada) $2.50 per 15. Address Geo. Gaul, Tipton, Iowa.

Must Sell My choice flock of S. C. W. Leghorn hens and pullets. Young's strain. As I have to move March 1 will make special prices for quick sale. C. H. Drake, Lisbon, Iowa.

WHITE Leghorns, (single comb), winners at Des Moines, Sioux City, Cedar Rapids, and all over the state. Eggs, $1.00, $2.00 and $3.00 per 15; $4.00 per 100, E. P. Hartman, Lake View, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

S. C. B. LEGHORN EGGS from silver cup prize winners, $1.50 per 15. Mrs. Monroe Marts, R. 2, Ottumwa, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

SINGLE COMB BROWN LEGHORN baby chicks $12.00 per 100. Let us book your order now for future delivery. E. A. Kauffman, Lockridge, Iowa.

S. C. and Rose C. B. Leghorns Trapnested 12 yrs. Eggs $1.00 per 15; $5.00 per 100. Fairview Farm, West McHenry, Ill.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

S. C. W. Leghorns. Young's. Eggs, exhibition matings, $2.50, $1.50, $1 per 15; $5 per 100; chicks $12.50 per 100; circular, Mrs. Wilson McIntyre, Red Oak, Ia.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

S. C. BUFF LEGHORNS Eggs from high-scoring, prize-winning stock $1.50 per 15, Ckls. for sale, $5 each. R. E. Colburn, Weyauwega Wis.

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 and $4.50 per 100. **Eggland Farm, Mt. Vernon, Iowa.**

S. C. BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S. C. W. LEGHORNS. Pure white, persistent layers. Eggs, $1.50 per 15; $5.00 per 100. **Geo. S. Phillips, Tecumseh, Nebraska.**

S. C. B. Leghorn Eggs 75c per 15, $3.50 per 100. Baby chicks $12 per 100, farm range. Address Mrs. B. M. Painter, Lewis, Ia.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100. From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. **Mrs. B. C. Marts, Hampton, Iowa.**

LEGHORNS Extra white, Rose Comb, winter layers; eggs 15, $1; 100, $5.00, postpaid. J. W. Osborn, Hamlontown, Iowa.

S. C. W. Leghorns. Cockerels all sold. Eggs for hatching. We are getting on an average of 100 to 125 eggs a day. J. M. Williamson, R. 1, Des Moines, Ia.

R. C. Brown Leghorn Eggs $1.00 per 15; $4.00 per 100; $7.50 per 200. Address C. H. & J. E. Bauman, Pella, Iowa.

Eggs For Hatching S. C. White Leghorns exclusively, 15 for 75c, 30 for $1.25, 100 for $3.00. Address Gilford Pitcher, Earlville, Ia.

ROSE COMB BROWN LEGHORN, pure-bred, eggs $1 per sitting, $3 per 100. Price on full case. Address MRS. LAURA MATHER, Clarksville, Iowa.

R. C. W. LEGHORN EGGS $1.00 for 15; $4.00 for 100. From prize-winning stock Address Ben R. Poortinga, Cordova, Iowa.

S. C. WHITE LEGHORNS Young's strain, $1 for 15; $3 for 50; $5 for 100. Woodlawn Farm, Sterling, Illinois.

R. C. W. LEGHORNS

Eggs, 15 $1, 100 $4. Peter Reinbold, Clarksville, Ia.

LEGHORNS.

ROSE COMB BROWN LEGHORNS, large, vigorous stock, strictly pure bred, have true Leghorn type, from best strains of layers known to breed. Eggs high fertility, carefully packed 15, $1, 50, $2.25; 100, $4. Write Geo. Boyce, R. 3, Newell, Ia.

EGGS---ANY NUMBER S. C. White Leghorns. Great layers and winners. Choice yards and farm flock. As good as prize. Free catalog. Mary Culver, R. 1, King City, Missouri.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50, $3.50 per 100, $6 per 200. Address E. E. Sullivan, Jefferson, Iowa.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $2.00. I. R. D. eggs $1.25 setting, $6. Farm range $3.00. Address, Mrs. G. W. Brockway, Clarksville, Iowa

BUFF LEGHORNS Single Comb, farm range, 30 eggs, $1.50; 50 eggs, $2; 100 eggs, $3.50. Address Adelia Hillman, Lockridge, Iowa.

S. C. Brown Leghorn Eggs from scored farm range stock. 15 for $1.00, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1.50, 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

S. C. Brown Leghorn Eggs 50c per 15. Good farm range stock, $3 per 100. MRS. BERTHA MOYLE, HILLSBORO, IOWA.

SINGLE COMB BUFF LEGHORNS EXCLUSIVELY Eggs, $3.50 per 100. Chas. F. James, Lockridge, Ia.

EGGS for sale from pure-bred R. C. B. Leghorns, have free range and good healthy stock. $3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

LAYING strain R. C. Brown Leghorns. Bred for winter laying. High-class stock. Eggs, $1 for 15; $4 per 100. Address Geo. N. Urice, Vinton, Ia.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock. $2 per 60, $3 per 100. Mrs. Chas. Lasley, Floris, Ia.

R. C. Brown Leghorn Eggs for hatching. Farm range. Males from high-scoring stock. 15, 75c; 100, $3.50. Mrs Nelson Hyde, Manson, Ia.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points, 75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

DUCKS.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schell & Sons**, R. 2, Prophetstown, Ill.

INDIAN Runner ducks, fawn and white. Our flock was started from eggs from a choice flock of pure-bred Indian Runners. Our ducks have not been forced for winter laying, which we think is detrimental to successful hatching; plenty of range; are in No. 1 condition; few drakes $1.50 ea. Eggs $1.25, 13; $6, 100. Will Rasmusson, R. 2, No. 63, Nevada, Ia.

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6, John M. Hall, Williams, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from fawn and white, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners $2.00 per 12. Address E. A. KAUFFMAN. Lockridge, Iowa.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

WE are offering 100 extra choice breeding trios of pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address **Rahn & Son, Box 144, Clarinda, Iowa.**

WANTED TO BUY. Indian Runner and Pekin ducks, and Toulouse geese eggs in large lots. Also Hamburg, Cornish Indian Game and Houden eggs. Address Matthew Mertz, Des Moines, Ia.

Our Indian Runner Ducks were winners of all four 1sts at Chicago, Des Moines and Grinnell. Ten choice pairs, $5 per pair. A few drakes at $2 each. F. L. Reinhard & Son, Ottumwa, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26, $2.75. **MRS. C. A. ROBINSON. Griswold, Iowa**

INDIAN RUNNER DUCKS Fawn and White. The laying strain. Eggs, $1 for 15; $5 for 100. **EARL WALGREN, Lockridge, Iowa.**

DUCKS Indian Runner ducks. Fawn. Great layers. 13 eggs for $1.00. Anna Pratt, Beaver Crossing, Neb.

EGGS—Pekin ducks, headed by drake scoring 96½ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

INDIAN RUNNER duck eggs, pure-bred, fawn and white, laying strain, high-scoring eggs $1.50 per 13. Address K. Hemmen, Blairsburg, Iowa.

FAWN and White I. R. duck eggs, flock scoring up to 96; state fair winners, W. egg strain, $1.50 per 13. Mrs. Howard Niswander, Kinross, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 100, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

FOR SALE English penciled I. R. duck eggs, $1.50 for 15 or $8 for 100. **Nishna Collie Kennels, Oakland, Iowa.**

ROUEN DUCK EGGS $1.50 for 12; $2.50 for 24 from large, pure-bred stock. Address John P. McFadden, Atalissa, Iowa

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Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia

WYANDOTTES.

EGGS BABY CHICKS
WHITE WYANDOTTES
White Wing Poultry Farm, C 294 Perry, Iowa.

Silver Laced Wyandottes I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

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Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

Faha's Silver Wyandotte Eggs From five grand pens Still have a few choice birds for sale. Send for catalog and mating list. Address **Frank Faha, Jr., Box 620, Dyersville, Iowa.**

EGGS from high-scoring stock. White Wyandotte, Kellerstrass, White Orpington and Buff Orpington. $1 per 15; $5 per 100. Fawn and white I. R. ducks, $1.25 per 13. A. G. Dreher, Audubon, Iowa.

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, its free, John A. Johnson, R.2, Pilot Mound, Ia.

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15. $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

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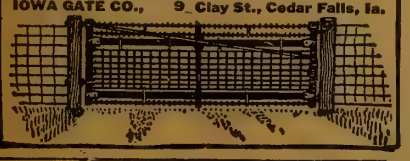

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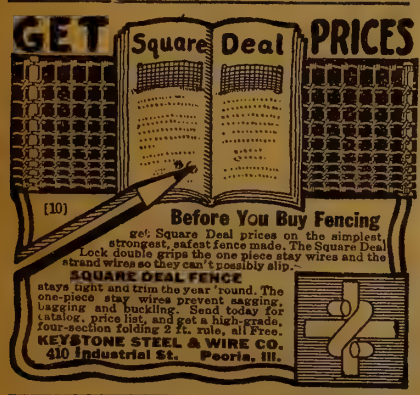

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LEGAL DEPARTMENT.

(Continued from page 9)

levy an additional sum, but the amount for the general township fund and the county road fund, must not exceed in any year five mills on the dollar on the value of assessed property.

RIGHTS OF CROPPER.

A Subscriber, Hurdland, Mo.—Last spring I rented land to a neighbor to be used for the raising of a crop of corn. Can he hold the land and pasture stalk ground until March 1st?

Answer.—In this case the tenant was a mere cropper, entitled to the use of the rented land until the crop was gathered, and no longer. A reasonable time after the crop was matured would be allowed for the renter to gather it, and after that time he would have no lawful right to possession of the land. He had no right to pasture the land at all. If by the terms of the contract the fodder or stalks, or part thereof, belonged to him he should have removed the same within a reasonable time after the crop was ripe.

MECHANIC'S LIEN.

Mr. M. E. Wood, Caldwell, Idaho.—A contracted with B to sell him a certain property in Iowa on monthly payments. B engaged C to make some improvements on the property, but failed to pay C for the same, and C filed a lien for his claim. The title to the property is in A and he knew nothing of the claim of C until notified of the lien. Is said lien good on the property?

Answer.—If C filed his lien within ninety days after making such improvements, the lien will hold good against the land.

RIGHTS OF LANDLORD AND TENANT.

A Subscriber, Garrett, Kan.—(1) Where a tenant on land does fall plowing, does that enable him to lawfully hold the land as tenant for the next year? (2) Has a landlord the right to put live stock on a rented farm and compel the tenant to take it? (3) What steps can a landlord take to have his tenant haul out manure and do other little jobs that are generally provided for in farm leases?

Answer.—(1) The mere fact that a tenant does fall plowing upon the rented premises does not give him the right to hold the same beyond the time when his term as tenant expires. (2) He has not. (3) A landlord cannot compel his tenant to do such things, unless it is so provided in the contract between them. All such matters should be agreed upon between the landlord and the tenant when the renting contract is made.

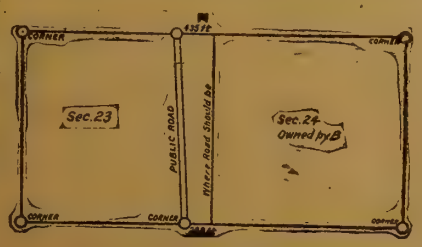
PARTITION FENCE—MISSOURI.

A Subscriber, Bland, Mo.—(1) Is the law in Missouri in relation to partition fences the same as it is in Illinois? (2) Please state the Missouri law on the subject.

Answer.—(1) It is not. (2) Where owners of adjoining land cannot agree as to the part of the partition fence each shall construct and keep up, either party may apply to a justice of the peace of the township, who must then summon three disinterested householders to appear on the premises, giving both parties three days' notice of the time and place, and the householders shall under oath designate the portion of the fence to be kept in repair by each owner. Either party owning land adjoining a partition fence may upon the failure of the other party to keep his part in repair, repair the same at the expense of such other party, and recover by law such expense, and also double damages for any injury caused by the failure of such other party to repair his part of the fence.

RECOVERY OF LAND OUTLAWED.

Mr. A. J. Wellfleet, Neb.—I own the east half of section 23 and B owns section 24, as shown in diagram. B does



not reside in Nebraska. Recently I had my land surveyed by the county surveyor and find that B has possession of 43.8 acres of my land. Good corners are on the northeast and southeast of section 24 and on the northwest and southwest of section 23. The public road is 435 feet too far west on the north line of the section and 288 feet too far west on the south line. There are corners where road runs, but where these corners should be has been farmed by B for several years. The party who laid out the road and did the former surveying owned the land now owned by B, about eighteen years ago. Can I recover my land by law, and if so how should I proceed?

Answer.—B and the former owner of his land, having held posession of the same for more than ten years claiming to own it, has the effect of giving B title thereto, so that your claim to the strip 288 feet wide at south end, and 435 feet wide at north end is barred by the statute of limitations, the law in Nebraska providing that an action for the recovery of title or possession of land can only be brought within ten years after the cause of such action shall have accrued.

PARTNERSHIP BUSINESS—WAGES.

A Subscriber, Beaver City, Neb.—A, B and C own together a half section of land in Nebraska. Half of it is used for pasture only, and the other half has buildings and improvements on it, and about ninety aeres under cultivation. It was agreed that C should move on this land and farm it, and care for a herd of cattle and some hogs, in which all are equally interested. C is to furnish one team, wagon and harness and all necessary farm implements and is to have all proceeds from as many cows of the herd as he cares to milk. He is to stock the place with chickens and have all the proceeds therefrom, and have also all proceeds from a garden and truck patch. A and B are to furnish one horse and harness each, and together they are to pay C a certain amount of money every month for performing their part of the farm work and caring for their share of the live stock. C is to furnish grain for the cows and chickens when it has to be bought. All of the crops raised on the farm are to be fed to the cattle, horses and hogs which are owned jointly by A, B and C as partners. (1) How much money should A and B pay C for his services? (2) Should he be paid at the same rate as though he were a disinterested party?

Answer.—(1) Your letter states that A and B are to pay C a certain amount of money every month for his services. This indicates that the amount C is to receive has already been fixed by agreement between the parties. If, however, the amount has not been so fixed by agreement, they should pay C what would be considered a reasonable compensation according to the general custom of the neighborhood. (2) C should be paid at the same rate as though he were a disinterested party.

INJUNCTION—FAILURE OF DEFENDANTS—COSTS.

A Subscriber, Corydon, Iowa.—About two and a half years ago a certain contractor called upon the township trustees and obtained permission from them to put in a culvert on the public road where I drive out upon it. I thereupon obtained an injunction to prevent the contractor from putting in the culvert. The contractor and trustees failed to prosecute the matter any further, and have dropped the case from the docket. Who is responsible for the costs for serving notice on the parties?

Answer.—You will have to examine the records of the court, and see what order was made as to costs, when the case was dismissed. In all cases where a case is dismissed or stricken from the docket of a court, it is the duty of the judge to enter in his minutes who is to pay the costs of the proceedings up to that time. In your case, as the case was dropped from the docket on account of the default or failure of the defendants to appear, they should be taxed with the costs and the judge's docket should so state.

It is a good idea to wait until spring is really and certainly here before disposing of the entire winter coat off the horses with clippers. Clipping is all right, but a good thing to remember since late springs have been the rule is to "wait a little while."

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We save you big money—give you highest quality. Mail postal now for Big Fence Bargain Book.

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Many styles and heights. Our large Free Catalog contains fence information you should have.

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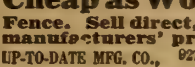

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THE HOME

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WITH THE EDITOR.

Mary E Wilkins' "Rebellion of Mothers," summarized here With The Editor some ten or twelve years ago, relates the strike of one woman. Edna Kenton's "Solidarity," published in the January Century, tells of the concerted strike of sixteen women. In the first story the mirror is held up to a single farm home; in the second it sweeps an entire county.

If "Solidarity" has a heroine it is Sadie Hope. It was she who initiated the proceedings which made Morgan county a seven days' wonder and revolutionized a considerable number of its homes. The story is remarkable and well worth retelling:

The secret of Mrs. Hope's survival of the summer before with its heat and its work had been the promise that before the next summer swept around with its added labors she would have the desire of her life gratified—a sink and running water in the kitchen.

Three times during the autumn Sadie Hope asked her husband timorously if the laying of the pipes had not better begin before the frost set in. During the winter she waited with what patience she could command, meantime carrying through rain and sleet and snow most of the water required in the house, although the pump was 300 yards from the kitchen door. It had been placed there years before that it might be conveniently near the barn. During the spring she waited on, but four times she gathered up courage to suggest that now, the ground being thawed, was a good time for the pipes to be laid.

Until a certain day in late spring Jim Hope's only reply to the reminders of his wife was a "H-m-m," uttered absent mindedly, as if her remark had not pierced to his inner consciousness. On this day it was different. A recent purchase, a huge motor harvester, the latest model, had just been delivered. As they stood before it Mrs. Hope became hopeless, but in desperation she asked if he weren't going to start laying those pipes for the kitchen right away. Hope was eagerly inspecting the new machine. For a moment he did not speak. Then, not brutally—he was not a brutal man—but quite decisively he said, "Why, Sadie, I reckon not this year."

The wife knew there was no appeal from her husband when he spoke in a certain tone, but she began to speak—"her words dripping from her:"

"I feel like I was goin' to drop dead this summer sometime without a kitchen sink, Jim. You haven't got an idea what it means not to have it, what it means to carry all that water every day. I won't let the children do much of it; I know what it does to my own back. And uphill to the house all the new harvester—I wonder how many hours a week I'd save with running water in the house, let stand the strength I'd have left at a day's end by turnin' faucets instead of bending under that weight of water all the way uphill! Lay me them pipes, Jim! It ain't goin' to cost you much."

Her voice trembled heart-breakingly along her throat; but Hope, busied with his first examination of the engine, failed to catch its quality, or, perceiving, chose to disregard.

"That new land cost too much, Sadie, for any more expense this year. It was all I could manage, this new harvester."

Leaving him absorbed in his new engine Mrs. Hope went despairingly to the house. Every nerve of her brain and body was quivering. She was at that state of nerve exhaustion where "the contemplation of a task ahead is more wearing than its performing could be, and already the burden of the coming harvest time was prostrating her."

Haying began in Morgan county on the day after the Fourth. It was three months away, but the woman could think of nothing else. Her distraught brain suddenly remembered that strange, worn, half-savage woman at the Holbrooke Farm, who several years before, right in the midst of the summer work, had killed herself and her three children. The vision of it all would come to her, even as she looked at her own children:

If it wasn't for the children I'd want to die, she groaned as she dragged herself up the hill with her brimming pails of water. Ten men to cook for, and all the washing—" she began, like a prisoner stupid under life sentence, to calculate vacuous things—the number of pails of water, for instance, that must be brought uphill during the summer to her hot, ugly workshop; and her disappointment became her obsession.

One day, about the middle of June, Hope proposed that his wife accompany him to a manufacturing town some twelve miles away. As they neared the place he said he wanted to call on the motor firm from which he had purchased his harvester. During the months since the arrival of the new machine Sadie Hope had nourished an unreasoning antipathy to the place from which it had come. The old rebellion seethed within her. She would not look at the motor works which had, as she felt, robbed her. She said she would get out and walk about the town. She did so. Walking about she lost her way and had to make inquiry as to her whereabouts. And thereby hangs "Solidarity."

It chanced that a strike was on in the glove factory. The girl of whom Mrs. Hope inquired the way was a "picket" who mistook her for a "scab." During the colloquy Mrs. Hope innocently asked why the girls, instead of striking, did not go to the factory owners:

"Lady," replied the picket, "did you ever try asking anybody in power for anything that would cost them a little money and would help you, and get it? But suppose you don't ask it alone—suppose hundreds and thousands like you ask it standing together, pledged not to back down—that's solidarity, standing together to win out on a wrong that you or I or anybody, standing alone, can't right."

Waiting at a department store for her husband Mrs. Hope picked up a stray newspaper and read a detailed account of the strike which in some vague way appealed strongly to her. On the way home she spoke of her adventure and of what she had read. Hope listened somewhat absent mindedly—a fashion he had when his wife was speaking, but commented, "Sure those mills ought to be shut down. A strike's the only chance; no use to try reason with the owners."

When they reached home, as he sprang out and held a hand to her, Hope said:

"Well, Sadie, this time next month we'll not be using this slow coach. We'll have a dandy new motor car—the dandiest little roadster you ever—"

Outraged his wife faced him.

"Jim," she uttered thickly, "do you mean you got another car for you, and me left with that old kitchen out there?"

"Now, that kitchen's done for this year," said Jim Hope, with a flash of sullen wrath. "Some time I'll get around to the house; till then, cheese it. You've turned real stubborn about that thing, Sadie."

She stared at him, her lips moving; then she turned and ran weakly up to the house, smothered by the old depression which was choking her.

(To be continued.)

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

It is praise that lifts us! It is by praise that we live!
None of us are perfect—neither are any of us all bad.
There is so much good in the worst of us
And so much bad in the best of us,
That it ill behooves the most of us
To talk about the rest of us!

APRIL.

April is here!
Listen, a bluebird is caroling near.
Low and sweet is the song he sings,
As he sits in the sunshine with folded wings,
And looks from the earth that is growing green
To the warm blue skies that downward lean,
As a mother does, to kiss the child
That has looked up into her face and smiled.
Earth has been sleeping, and now she wakes,
And the kind sky mother bends and takes
The laughing thing in her warm embrace,
And scatters her kisses over its face,
And every kiss will grow into a flower
To brighten with beauty a coming hour.

Eben E. Rexford.

"THE GREATEST WOMAN."

"Who's the greatest woman in history?" was the query debated by Kansas school-teachers.

They considered Joan of Arc and Queen Elizabeth and Semiramis and Cleopatra, Cornelia, Catherine of Russia, Maria Theresa, Grace Darling, Susan B. Anthony and half a hundred others. When they came down to cases all the names known to fame were ruled out. And to whom do you suppose the judges awarded the palm? Here is the answer:

"The wife of the farmer of the moderate means who does her own cooking, washing, ironing, sewing, brings up a family of boys and girls to be useful members of society, and finds time for intellectual improvement."

CHILD'S PRATTLE.

While preparing her three-year-old daughter for bed, her mother on the discovery of a hole in her stocking exclaimed: "Why, Betty, there is a hole in the toe of your stocking."

Betty replied: "Yes, mother, but don't blame me, if my big toe ate a piece out of my stocking."

PREVENTION OF DISEASE.

Keep the mouth, nose, and teeth clean.

Bathe regularly, winter and summer.

Dress according to weather, not according to season.

Dry dusting moves dust, it does not remove it.

Don't let garbage and filth accumulate in your yard.

Do advanced preventive work against next summer's flies and mosquitoes.

If flies, mosquitoes, impure water and contaminated milk are responsible for typhoid and other diseases, why not remove the cause?

Every unvaccinated person is a fit subject for smallpox and a menace to the community.

Observe well established rules of hygiene. Keep your body in a normal condition, and you won't "run down."

Biting and cleaning the finger nails with the teeth has infection from kissing beaten to a frazzle.

Don't waste money on pastries and sweets. Eat good, plain wholesome food, and enough of it. A hungry man can't work, and a starving child soon peters out.

FOR THE COOK.

Breasts of mutton are economical if cooked in this way. Boil until the bones will slip out easily. When these are removed, lay the meat flat on a board and sprinkle with chopped sage and onion mixed with a few bread crumbs and pepper and salt. Roll it up, tie with string to keep in the stuffing, then brown in the oven, basting with dripping.

A nice dish is made of macaroni, cheese, tomatoes and cracker crumbs. Stew half a box of macaroni in salted water for fifteen minutes; then drain. Take one quart of tomatoes, fresh or canned, and put alternate layers of tomato, macaroni, cracker and cheese crumbs into a baking pan. Season with bits of butter, salt and pepper and bake one-half hour.

Pot roasts should be browned in a

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For Men—Women—Children

Mayer Yerma Cushion Shoes are now accorded first consideration among cushion shoes on account of their excellent style, comfort and wear. They belong to the Mayer Honorbilt line, which insures their high quality. If you have foot trouble, or want solid comfort, wear Mayer Yerma Cushion Shoes.

Ask your dealer for Honorbilt Shoes. If not obtainable, write to us.

WARNING—Be sure and look for the Mayer name and trade mark on the sole

We make Mayer Honorbilt Shoes in all styles for men, women and children; also Drysox and Martha Washington Comfort Shoes.

FREE—Send name of dealer who does *not* handle Mayer Honorbilt Shoes and we will send you free, post-paid, beautiful picture of Martha or George Washington, size 15x20.

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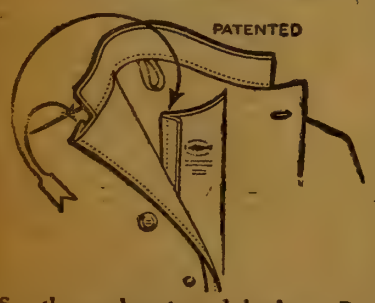
You shut out *all* the rain when you button a

FISH BRAND REFLEX SLICKER

This design shows you why.



See those edges turned back, or *Reflexed?* When the Reflex Slicker is buttoned they catch all the water that runs in at the front and conduct it to the bottom.

Sold everywhere at $3.00

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Missouri River Freight F'd'g Co.
Omaha, Neb. Kansas City, Mo.

kettle on top of stove on all sides; then add two or three tablespoonfuls of water—just enough to "start" it; cover closely and set where it will cook very gently two or three hours. Turn often; season, and if necessary add a very little water, from time to time. The water should not be added for gravy until the meat is all done. Vegetables should always be put on to boil in plenty of boiling water, and if "underground vegetables," no salt in the water when boiled plain. But in soups and stews, boiled dinners, etc., always season before putting in vegetables.

Here is a tested recipe for a cake that keeps well, improving in flavor with age. Soak two cupfuls of dried apples and when tender add one cupful of raisins, one cupful of molasses, one cupful of sugar, a little cinnamon and cloves. Boil these to a sirup. When cool add one cupful of sour milk, one cupful of butter, two eggs and two liberal cupfuls of flour sifted two or three times. A teaspoonful of soda should be dissolved in the sour milk. Bake for two hours.

The best way to cook potatoes is to bake them, because, a dry heat being used, none of the food value is lost. Next in nutritive order is the boiling of potatoes with their skins on. Next comes steaming, which everyone should practice instead of the common way of boiling, because it wastes less starch, while giving the same kind of flavor and texture. Frying is the least rational process. Of the "fancy" methods "ricing" is one of the easiest and most attractive, and it has the great advantage of being useful for potatoes unfit for other uses.

AMONG OURSELVES.

Judges in our Home Department essay contests always have a difficult task. Their labors this time were more arduous than usual from the fact that one of the prizes differed materially in value from the others while as usual the quality of the articles submitted was in the case of at least a half dozen, almost the same. On advice being asked for, the word given was to use their own judgment, remembering only that the object of the contest is to stimulate interest and create demand for labor-saving conveniences for the farm household. In their report the judges possibly feeling that some explanation was in order, stated that first prize was awarded to the "iceless refrigerator" article because no greater difficulty confronts the farm housewife than that of doing without ice in hot weather; and that in deciding upon the other prize articles an effort was made that the four should treat of different things and the whole number present a sort of bird's-eye view of conveniences to be desired by the woman who would save her time, strength and energy and yet do her housewifely duty faithfully. Several articles not awarded prizes were mentioned as having special merit and these we shall present to our readers at some other time; today's program will present the prize-winning five:

OUR ICELESS REFRIGERATOR.

We live on a farm three miles from town. Nearly four years ago we built a new house with all the modern conveniences. The "guid mon" always said, "When I build I shall put in all the conveniences inside rather than 'ginger bread' on the outside." One of our neighbors who helped us during sickness remarked, "I never was in a house in which it was so easy to do the work." The one "convenience" without which I could hardly keep house, is our "iceless refrigerator." It is made of metal with wire gauze ventilators and never becomes stale, musty or rusty. It is round, thus avoiding corners, so hard to clean, and is fitted with removable wire shelves. It is lowered into a hole sunk four feet below the cement floor of the basement and requires just one-half minute to bring it up into the kitchen with crank, drum and cable. The temperature at the bottom of that hole is nearly the same as that of water fresh from the well, and everything put into it keeps in splendid condition. It saves innumerable steps up and down cellar and is a greater convenience than almost any of the others. The initial cost was $20 and we have no ice bills. Our town friends tell us they spend from $15 to $18 yearly for ice and then sometimes the ice man omits his rounds for two or three days—result, oily butter, sour milk, spoiled food, etc. In winter I use my iceless refrigerator just the same, as it keeps everything in fine condition and entirely out of the way. Ice for the farm is a problem and few farm homes are supplied. That is our reason for investing in an iceless.

Mary J. M. Stickel.

A QUARTET OF ENERGY SAVERS.

There are a goodly number of appliances now in common use, of which our grandmothers never dreamed in their day. First on the list, in my estimation, is the gasoline engine. By having a small building near the dwelling one can have it attached to the washing machine, the wringer, the churn, the separator and the pump, thereby saving a great deal of back-breaking labor. While the engine is running the washing machine one can be preparing the starch, rinse water and the many other things that must be done in doing the washing, and one can get a large washing over in half the time it would take to do it by hand. Then there is fresh water to be pumped every day in the week and every meal of the day and that an engine can do as well as do the washing. Next in labor saving is the vacuum cleaner. By its use there will be no everlasting dust when one cleans the rugs or walls or curtains, and certainly that is no small item in the work of keeping rooms clean. The bathtub is another great labor-saving article in every house. Where one can turn on hot and cold water and each member of the family take a bath before going to bed at night it saves a large amount of washing of bed clothes. Where there are men coming in from the field they cannot help being dusty and sweaty, and if there is no bath or water convenient their clothes will not stay clean half as long. Another labor-saving article that costs but a very little is the electric iron. There is no fuel to be brought or put in the stove, no fire to heat up the house on a hot day. I think that with it I can do the ironing for a fair-sized family as quickly as I used to do it for two when I had to gather up the fuel for ironing day.

Modern Mary.

MY LABOR SAVERS.

I have many articles in my home that are both time and labor savers, that enable me to keep my house in order and have more time for reading and sewing than formerly. I have a kitchen cabinet which places everything to my hand when cooking, thus saving many steps. My bread mixer I wouldn't part with, as I make just as good bread and with less trouble. My nine-year-old boy often turns it for me. Then I have a churn which churns in five to seven minutes as fine butter as I ever made. Our latest investment in the way of labor savers was the purchase of a vacuum cleaner for $6.50 and I consider it money well spent, for with it I can keep the dust out of my house the year round. Every other day I go over my carpets that are in daily use and once a week the bedrooms. The house cleaning this spring will be very light and really the price is very little, for you must pay a woman at least $1 a day in house-cleaning time. Last fall I cleaned three mattresses and a feather bed with my vacuum cleaner and it was surprising the amount of dirt it removed. Once a week I clean my window curtains without taking them down and it is just fine for cleaning a couch. Of course, there are more expensive cleaners than mine and they are probably better, still this one is in good condition after one year's constant use.

J. W. Leon.

CONVENIENCES POSSESSED AND DESIRED.

I thought I had nothing to write about, but find that I have several labor savers. We are renters, so will let that account for not having a water system, bath and laundry rooms, etc. I have a good six-hole range with fifteen-gallon reservoir (and a man to fill it). Also a three-burner wickless oil stove with two ovens, different sizes. A food chopper, which is also used for sausage and peanut butter making. My apple parer pares, cores and slices at one operation and is invaluable where they are many apples to care for. My kitchen cabinet I consider handier than a pantry, as everything is within reach without walking. A gasoline iron saves me many steps while ironing, besides saving fuel and being cool in summer. A mounted casserole is very handy for serving baked foods and saves the washing of an extra dish. Something I have never seen mentioned is a folding bench wringer with oscillating water board. This saves all changing of the wringer, but, of course, an extra one is needed for the washing machine unless you have a gasoline washer, which has its own. I know I am not the only woman Among Ourselves who does lots of her own carpentering, so if you others will get a hammer of your own you will find it very convenient. The things mentioned are a great help, but some day I hope to add a gasoline washer, a bread mixer, a dish washer, a fireless cooker and a cream separator to my labor savers. And when that "home of our own" is realized there are others that are not possible to renters.

Mrs. C. W. Lambert.

THREE THINGS HIGHLY VALUED.

The following three articles have been of invaluable assistance to me in keeping house: 1. A food chopper, price $1. With this I can in a few minutes chop or grind all meats, raw and cooked, vegetables, nuts, raisins, crumb bread and crackers, etc. I even run my soap through this chopper instead of cutting the bar of soap up with a knife. The food chopper saves me many hours of hard work and does the work better than an ordinary chopping knife and bowl. 2. A pair of scissors. There is no more useful article in the kitchen than a sharp, shiny pair of scissors. It is difficult, for instance, to slice off the slippery rind of bacon with a knife, but with the scissors every morsel can be quickly pared away without a vestige of waste. In preparing vegetables the scissors are incomparable. I use them in trimming rusty lettuce leaves, celery, cutting up asparagus, shaping flowerets of cauliflower, dicing pineapple, etc. I save my fingers by using the scissors to cut off fish fins and to cut up meat and fish for salad. The white pith of grapefruit, which is so hard to remove with a knife, is easily snipped with the scissors and then pulled out without trouble or mutilation. 3. A dustless mop. I made an excellent dustless mop from old stockings in this manner: Slash the stock-

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An unwarranted prejudice still prevails with some people, who say that "when we mix our own lead and oil we know what is in the paint." So far as this goes it is true, provided the exact character of the lead and oil is known, which is seldom true outside of the most modern factory. And the lead and oil are mixed purely by guess, whereas tests in actual use have proved conclusively that to make good paint you must know that the materials come up to certain definite standards, that they are blended in the proper proportions, and mulled to a fineness that experience has proved to give best results.

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The advantages in using "High Standard" Paint are that while it spreads freely and goes further, at the same time it is of such character that it sets tightly in a coat of exceptional weather-proofing qualities—therefore giving better protection and lasting longer than other paints. It is not the price per gallon that you must consider, but the cost for the entire job and the cost per year of wear.

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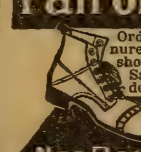

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ings in strings an inch wide and twelve inches long, forming a fringe. With the machine stitch several thicknesses of this to a strip of cloth three inches wide and ten inches long. Fasten this in a mop stick. Saturate the mop with a mixture of one part raw linseed oil and four parts gasoline, doing this, of course, outdoors. Hang the mop in the open air until the gasoline evaporates. It is then ready for use. This dustless mop saves me much time and many steps, as I can go over an entire floor in a few minutes and without going once to the door to "shake the dust." I also made a dustless dust cloth in the same manner, only smaller, and without fastening to a stick. These dustless articles can be used for a long time without being washed. When it becomes necessary to wash them they are again saturated with the mixture after they have been thoroughly dried. The dustless mops can also be saturated with a good furniture polish. This lasts longer, but is more expensive.

Mrs. E. E. Fitz.

These essays summarized recommend a list of things I should dearly love to see in every farm house in the land, and it is my very earnest hope that discussion of labor-saving household appliances will increase investment in them in the homes represented by this circle. Right here I think I shall take the friends into my confidence about something. The number of essays submitted in this contest was considerably less than usual and this in face of the fact that one of the prizes offered was much

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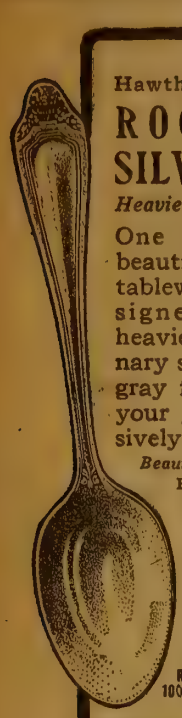
more valuable than usual. This has puzzled me a good deal. Is it that few or our housewives have modern time and labor savers? Perish the thought! Is it that having them they are indifferent about inciting other women to obtain possession of like conveniences? Perish the thought! I am on the horns of a dilemma. Can anyone help me to a more comfortable place?

As announced last week, our readers begin with this issue to become acquainted with the wonderful happenings in Morgan county which Edna Kenton presented to Century readers in her story entitled "Solidarity." "Solidarity," as will be seen, has a bearing upon this question of household labor savers and modern conveniences. Without reflecting upon men in general, let alone men in particular, I believe that if With the Editor be read aloud while "Solidarity" is being summarized it would be a very good thing.



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THE YOUNG FOLKS

GEMS OF THOUGHT.

Cheerfulness and content are great beautifiers and famous preservers of youthful looks.—Dickens.

ROLL OF HONOR.

Adaline, Allie, Bertie-ha-ha, Bowneyed Marguerite, Chin Whiskers, Christo, Columbine, Country Lass, Cousin Grace, Daisy Deane, Doris of the Brown Eyes, Ethel, Fernwood, Filbert, Franklin, Garda, Gratia, Happy Farmer Girl, Heki, Housekeeper, Ideal, Iota, Lanhod, Lamplight, Lylic, Minnesota Girlo, Mischief Maker, Miss Hap, Nebo, Olina, Patriot Girl, Phyllis, Redwing, Spit Fire, The Golden Maid, Uretta, Van, Zerlina.

These young people sent good literary or handiwork, signed in full, and written on but one side. Indiana Lass and Phyllis win pansy badges for three insertions on the Roll of Honor.

AN UNEXPECTED BATH.

Once upon a time my sister and I went on a daisy hunt, and when we came back we went by the windmill. We had a large tank and we kept fish in it. We had some bread along with us to feed the fish. Sister was upon the side of the tank, walking along, and I had just turned to go home and I said, "Come on." Just as she turned I heard a splash. I turned around and saw that she had fallen into the tank. I ran and lifted her out, and she was soaking wet all over and her doll, Earla, was floating around in the water. We hurried home, which was about a quarter of a mile and told our brother about it and he went back after the doll. When he got there it was still in the middle of the tank and still on top of the water. Sister got on some dry clothes and she never got on the edge of the tank again.—Heki, age 11.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

1st Quar. Lesson 1, Gen. XXVII., 22-34. April 6,'

JACOB AND ESAU—THE STORY.

This eldest and sweetest of pastorals keeps on with an ever-augmenting interest. Sarah dies in Hebron, and the striken patriarch mourns and weeps for her sincerely. After twenty years twin sons were born to Isaac and Rebekah. They are perfect contrasts in appearance, disposition and occupation. There was certainly some preface to the crucial scene before us. It was not wholly fortuitous. The way to it was paved. Esau's contempt for his right as first-born was the outgrowth of his impiety. The priestly office incumbent upon the inheritor of that vast estate so discounted it in Esau's eyes that he did not care a rush for it; he believed he could get a fortune by some other means. On the other hand, Jacob plainly saw his brother's unfitness for the chieftainship: how a great patrimony was in danger of being dissipated. The prophecy of his birth, too, was often whispered in his ear by a partial mother. He thought he must needs use human expedient to help God carry out his plan. The hand of Jacob, the heelholder, had often been stretched out before to trip his brother. A half dozen verses suffice for one of the finest portraitures of opposite characters to be found in literature. Jacob is at his tent door, seething lentils into a savory porridge of a red color. Esau, coming from the field, fatigued and too impatient to wait until the game he had taken could be prepared for him, cried: "Let the red (one) gobble up that red!" It is the will of a wayward man. Jacob steps between the kettle and the hunter. He makes the most of his opportunity. "Ah, Esau! he has his hand upon your heel once more." Esau's answer is pure Epicureanism. "Let me eat, drink and be merry—tomorrow I die. The

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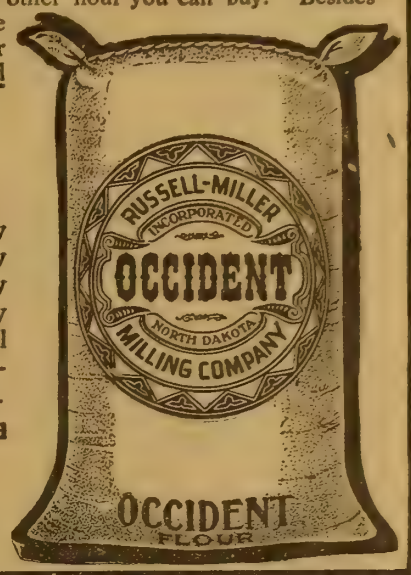

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birthright! I don't care a fig for it anyway." Esau eats, drinks, rises up, goes away—goes to oblivion, where he really belonged. Jacob rises to eminence, not, however, because of his unbrotherly craft, but in spite of it.

ONE YEAR OF THE FARM ADVISER.

(Continued from page 3.)

had no idea when nor where the seed was grown, and much of it was badly adulterated. Southern-grown alfalfa nor clover cannot be expected to do much good here. Seed too old will not grow well. One lot of alfalfa seed showed that sowing at the rate of sixteen pounds per acre there would have been more than 4,000 weed seeds sown on each square rod. I found red clover seed that showed eighteen dodder per square rod sown. We also found some seed as good as could be secured, and the Bureau is using every honest effort to assist in the sale of the best seeds, and using just as great effort to prevent the sale of poor seeds.

"We found that the law with reference to the disposal of carcasses of hogs that had died of contagious diseases was being violated, and have been insisting that every man who so violates the law be arrested and fined according to his offense.

"We found what some farmers thought to be a disease in alfalfa, but an investigation showed only the leaf hopper, and we could prescribe an easy cure. Maybe another did not know why his corn did not grow, and he did not see why, as the 'ground

"SAM" JORDAN DEMONSTRATING THE DIFFERENCE WROUGHT BY GOOD STRONG SEED AND WEAK.

was good,' but usually a look over the fence told the story before we did any digging. The little first blades were there and had been telling him all along, but the farmer had not been taught and did not know. Sometimes it was wire worms, sometimes root worms, and more often root lice, and when we would find his bugship or wormship, as the case may be, the first question was, 'What can I do?' and the answers to some are easy and others are not. Wire worms will pupate by and by, when it is pretty late to plant again, but for the season not much can be done. If root worms, don't put corn there next year. You cannot do anything now but just plow corn, and the same is true of root lice, the fighting must be done at another time.

"Maybe he does not know why his alfalfa died, but some blue litmus paper usually answers the question. In testing the soils for acid we found but one field in which the soil was sufficiently free from acid to make alfalfa growing successful. Up to the present time more than 300 tests have been made. Investigating the soils that were successful with alfalfa we found that lime or ground limestone had always been used in the early work with alfalfa; as a result, a few car loads of ground limestone have been applied, and we have several new trial fields of alfalfa put out the past summer. At the present time nearly every one of these seems to be giving much promise of success.

"One man's orchard was dying. The trees were about ten or twelve years old, orchard cultivated, but the trees showed a disease that attacks the sap layer, and the bark over it withers, and, of course, wanted to know what could be done. These trees were diseased when he put them out, and they were not true to name, so this means a loss and years of disappointment. So it goes from one end of the season to the other, and so the man who gets in close touch with the true situation and finds how rapidly the farmer is learning these things, and how anxious he is to learn them and the enormous importance to the welfare of the country that he does learn them, sees the county adviser idea, the greatest one ever launched in this county for the betterment of agriculture, and incidentally the betterment of every industrial condition.

"We found that the apple crop was perhaps the greatest in the history of the county. Every tree was loaded to its fullest capacity, and early in the fall farmers began coming to the office to inquire what to do with our apple crop. They had about made up their minds that to feed them to the hogs would be perhaps the most profitable way. I informed them that we would do our best to find them a market. I secured some interviews with some of the reporters on the daily papers and representatives of the metropolitan press, and those interviews were copied more or less over the entire country. As a result, within a short time I had correspondence from prospective buyers from eleven different states. We found many sections of the country with no apples at all. Many buyers came and would go into the country, and when they would see the quality of the fruit would become disgusted and take the next train away. Some of these buyers happened to find orchards that had been well cared for, and with fruit of a very high quality, but in nearly every case they discovered to their chagrin that the apples had already been sold. Thus it was that every bushel of good marketable apples found an outlet at a good price, where perhaps the loss from the orchards of the county on account of the apples being absolutely not fit for market approximated $10,000. As a result of this agitation the orchard men are considering the matter of combining their energies and by co-operation having their orchards properly sprayed and cared for. To get these men together and to assist them in carrying out their plans will be the duty that will fall to the county agent."

Nothing could have been more conclusive of the value of the work done in a single year, or more inspiring as an object lesson for others, than the "Get-Together" banquet at Sedalia. Only a few weeks ago the total membership of the Bureau of Agriculture was 270. On the day of the banquet, however, the membership had been increased to 525, while the auxiliary Home Makers Organization has a membership of 135. Already the two societies are planning for a home which shall include not only a demonstration farm, but also a commodious and comfortable building in which rallies and lectures may be held. Credit for this splendid record of one year belongs alike to Professor Jordan and Mr. M. V. Carroll, but without the co-operation of every farmer in the county the record would have been impossible to achieve.

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THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5994 Lady's and Miss's Kimono.—This kimono can be made in either the long or short length. It can also be made with either the long or short sleeves. Any of the crepe materials can be used to make this garment, with the trimming of contrasting material.

The pattern, No. 5994, is cut in sizes 30, 32, 36, 40 and 44 inches bust measure. Medium size requires for the long kimono 4⅝ yards of 36-inch material with 1⅞ yards of 27-inch contrasting goods. If the short kimono is used it requires 2½ yards of 36-inch material with 1 yard of 27-inch contrasting goods. Price of pattern, ten cents.

6112 Miss's and Small Woman's Dress.—This dress is just the thing for the schoolgirl. The closing is made at the front. The skirt is a three-gored model and can be made with either the Empire or regulation waist line. Serge or linen can be used for this dress with the cuffs of satin.

The pattern, No. 6112, is cut in sizes 14, 16 and 18 years. Medium size requires 4 yards of 36-inch material with ¾ yard of 22-inch all-over and ¼ yard of 22-inch satin. Price of pattern, ten cents.

5911 Lady's Dress.—This dress is made with the new-style deep armholes. The skirt is cut in two pieces. The waist of the dress closes at the center of the back and the skirt closes at the left side. Voile or pongee can be used to make this dress, with the collar, cuffs and ruffles of satin.

The pattern, No. 5911, is cut in sizes 32 to 42 inches bust measure. Medium size requires 5¾ yards of 36-inch material, with 2¾ yards of 24-inch satin for the ruffles and trimming. Price of pattern, ten cents.

6066 Lady's Shirt Waist.—This waist is made with a removable chemisette and long or short sleeves. The sleeves are set in deep armholes and are finished with chic cuffs. There is a dainty turn-down collar and a frill of edging adds completion. Any of the pretty shirt-waist materials can be used to made this waist.

The pattern, No. 6066, is cut in sizes 34 to 42 inches bust measure. Medium size requires 2½ yards of 36-inch material and 1 yard of edging. Price of pattern, ten cents.

5660 Child's Rompers.—Every small boy and girl needs a pair of rompers and here is a good pattern for making such a garment. The closing is made at the back. Linen, percale or chambray can be used to make this garment.

The pattern, No. 5660, is cut in sizes 1, 2 and 3 years. Medium size requires 1¾ yards of 36-inch material. Price of pattern, ten cents.

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If You Want a Reliable Supply of
GAS FOR LIGHTING
GAS FOR COOKING
GAS FOR HEATING WATER, ETC.
you should write at once for this book. It gives the results of over 44 Years of experience in solving 20,000 problems similar to yours.
Write today for this book and names of users in your vicinity.
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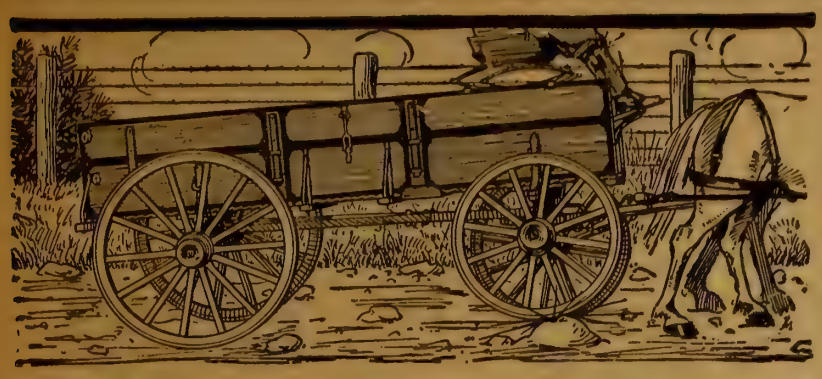


This Makes Watches Vary

Unless Regulated to Offset Such Jars

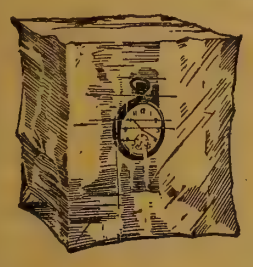
Bumps, Jars, Jolts and Shaking will ruin the time-keeping qualities of *any* watch that isn't *built* and *regulated* to offset these conditions.

South Bend Watches take six months to make and sometimes six months to test before they leave the factory. Then they are regulated to *your* personality by the expert retail jeweler who sells them.

The South Bend is the only watch made in America that is sold *only* through retail jewelers. You ought to *buy* your watch only through a retail jeweler, for then, and then only, can you *get that regulation*. Mail-order houses sell you a watch *only*. The expert retail jeweler sells you a good watch plus good regulation service. And this is the only safe and satisfactory way to buy a watch.

The South Bend Watch is hand and machine built by watch craftsmen — the most expert corps of watchmakers in America.

In the largest cities and in the smallest villages you will find at least one of the 15,083 jewelers who put their good reputations with ours behind the South Bend Watch.



Go see the nearest South Bend Watch dealer. Ask him to show you the watch that has 411 inspections, that is heated to boiling temperature, that is frozen solid in ice and *then* keeps absolute on-the-dot time.

Write for our free book, "How Good Watches Are Made." Brimful of interesting information about watches. Interesting — surprising — entertaining. Send for it today—now. You will get it by return mail, postpaid.

The South Bend Watch Co., 4 Ironton St., South Bend, Ind.

"The South Bend Watch"

The Original Air Cooled Engine

My Pride

I am proud of this engine. Ever since I placed it on the market more than ten years ago it has given good account of itself. From time to time I have improved it as experience taught me more about engines. Today I don't see where a single improvement is necessary. I sincerely believe the Original Air-Cooled engine the most economical and efficient of all farm power. I most heartily recommend it.
R. E. Olds, Pres.

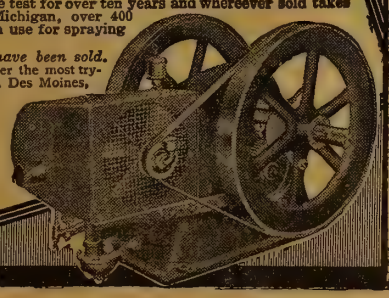
R. E. OLDS
Designer and Manufacturer

This engine was designed over ten years ago by the man who has *built* more gasoline engines and automobiles than any other man in the United States. The farmer needs a simple, reliable Air-Cooled engine for his work, an engine that can be started up on a moment's notice without the delay and annoyance of thrawing out or providing water for cooling. The Original Air-Cooled engine is simple in design, light weight for the power delivered, runs as steady as a clock and is sold under guarantee to cool when working under full load.

PUT TO THE TEST

This engine has been put to the test for over ten years and whereever sold takes the lead. In Allegan County, Michigan, over 400 Original Air-Cooled engines are in use for spraying and other farm purposes.

Thousands of these engines have been sold. They are giving the best services under the most trying conditions. N. M. Stark & Co., Des Moines, Iowa, have 15 standard cement mixers all equipped with 5 H-P Original Air-Cooled engines. *There is no work that requires a better engine than operating sprayers and cement mixers.* It is hard work all day with plenty of dirt to contend with. Drop us a letter or post card today for our latest catalogue.



THE ORIGINAL GAS ENGINE CO.
Dept. D, Lansing, Mich.

Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 600 Popular Bldg, Des Moines, Ia.

PROF. W. H. STEVENSON PROMOTED.

Prof. W. H. Stevenson, who for the past three years has been head of the agronomy department of the Iowa Agricultural College, has recently been promoted by the state board of education to the position of vice-director of the Iowa Experiment Station. The duties of the new position will not necessarily interfere with Professor Stevenson's services in agronomy.

During the eleven-year period of Professor Stevenson's service in Iowa he has rendered a valuable service to the state. He has developed what might be called a new science, so far as Iowa is concerned, in the

W. H. STEVENSON.

close study he has made of the various types of soils. To him must largely be attributed the progress that has been made in recent years in the reclaiming of the wet lands. His department has performed a most important service to those regions in which drainage districts have been established and as a result of his work these districts have been able in most instances to cut their ditches at a minimum cost. Professor Stevenson is now undertaking a state-wide soil survey and in connection with this survey there will be established local experiment fields which will be used to determine what kind of treatment must be given to the various types of soils.

The state board of education in making this promotion has recognized the services of one whose work has been carried on painstakingly and zealously pursued in the interests of Iowa agriculture.

PUMPKINS AMONG POTATOES.

To the Editor of The Homestead:

Shortly after planting potatoes (or it could be done at the time of planting) we plant pumpkins in every other row of the patch, putting the hills abount every six to ten feet in the rows, two or three seeds to the hill. They are cultivated right along with the potatoes, care being taken while they are small and tender not to cover them up or break them off.

By the last cultivation, when the vines are beginning to run across the rows, they should be laid along the potato vines till one is through cultivating, when they should be laid back in their natural position. The thrifty vines soon overrun the patch, covering the ground and preventing the growth of weeds, which always spring up after cultivation where no other crop is planted. When the frost kills the vines, we rake them up and remove them from the patch, which leaves us a clean, open surface for digging the potatoes.

Sometimes we scatter turnip seed among the potatoes immediately following the last cultivation, raking them in with the hand rake or with a harrow that is not wide enough to tear and damage the potato vines or injure the tubers underground. At other times we sow millet, mowing it before it is thoroughly ripened and storing it away for winter roughage, for which it is a most excellent product. Again, we drill corn in between the rows of potatoes, putting it thick, so it will grow small, tender stalks for winter roughage, at the same make it an almost perfect, grain-and-roughage ration combined.

Cole Co., Mo. M. Coverdell.

A little difference in the salt makes—

a big difference in the butter

Combine Worcester Salt with the best cream and your product will lead them all when you cash in on your butter.

Worcester Salt isn't bitter. Its grains are fine and even—consequently work in rapidly.

It is tastier, saltier and more savory than any salt you have ever used.

It was pure salt long before the Pure Food laws were dreamed of.

WORCESTER SALT

The Salt with the Savor

Send us your dealer's name and address and we will mail you, free of charge, our booklet, "Butter Making on the Farm."

For farm and dairy use, Worcester Salt is put up in 14-pound cotton bags and 28 and 56-pound Irish linen bags. Good grocers everywhere sell Worcester Salt. Get a bag.

WORCESTER SALT COMPANY
Largest Producers of High-Grade Salt in the World
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WHY PAY FOR GASOLINE WHEN WIND IS FREE!
Get a Big, Heavy, Powerful, Light Running, Double Geared

SAMSON WIND MILL

SEND FOR CATALOG
We also build Ideal Feed Mills, Pump Jacks, Hand Grinding Mills for Poultry Raisers, Gasoline Engines, Ensilage Cutters and Brass Candle Sticks

STOVER MANUFACTURING COMPANY
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D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll. And she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.
902 Popular Bldg., Des Moines, Iowa

"RANGER" BICYCLES

Are equipped with puncture-proof tires, imported roller chains, imported English flanged sprockets, English featherweight steel mud guards, imported Brampton pedals, motor style saddles, bars and grips, and other distinctive features possessed by no other bicycle. No effort or expense has been spared to make the "Ranger" the World's Best Bicycle. Improved factory methods and greatly increased output for 1913 enable us to make a *marvelous new price offer.* Something *very special* to the first purchasers of 1913 models in each town. Write us *today.*

WE SHIP ON APPROVAL *without a cent in advance,* to any person, anywhere in the United States, and *prepay the freight.* We only ask you to examine and try the "Ranger" *without a cent expense to yourself* before you think of buying any other bicycle.

10 DAYS FREE TRIAL is allowed on every "Ranger" bicycle. *Not a cent cost* to you if you do not wish to keep it after riding it for 10 days and putting it to every test. Our "Ranger" bicycles are of such high quality, handsome appearance and low price that we are willing to ship to you, *prepaid,* for your examination and trial, and leave it entirely to you whether you wish to keep it or not.

LOW FACTORY PRICES Our great output, perfected methods and machinery enable us to offer you direct from the factory the best bicycle ever produced at a price that will be a *revelation to you.* Do not buy a Bicycle or a pair of Tires until you receive our large complete catalog and learn our direct factory price and *remarkable special offer.*

SECOND-HAND BICYCLES—a limited number taken in trade by our Chicago retail stores will be closed out at once, at $3 to $8 each. Descriptive bargain list free.

RIDER AGENTS WANTED in every town and locality to ride and exhibit a sample 1913 "Ranger" bicycle furnished by us. In your spare time you can take many orders for our bicycles, tires and sundries. Write at once for our large Catalog and a remarkable *special proposition* we will make you on the first 1913 models going to your town.

TIRES, rear wheels with coaster brake, inner tubes, lamps, cyclometers, parts, repairs and everything in the bicycle line at half usual prices. Do not wait—write today for large catalog containing a great fund of interesting, useful bicycle information. It only costs a postal to get everything. Write it now.

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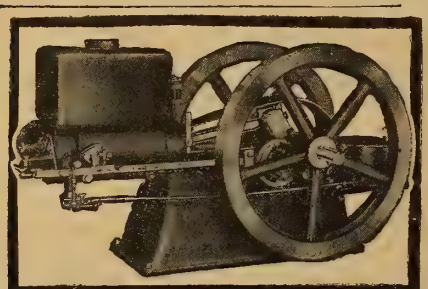

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The "INGECO" is just that kind of an engine and besides its reliability it has a record for keeping out of the repair shop—it is a marvel of simplicity—there is nothing to get out of order. Once set it runs constantly without trouble.

From 1½ to 60 H. P. Stationary, Portable, Semi-Portable Types.

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Automobile Training School 1200 Locust St., Kansas City, Mo.

THE LIVE STOCK MARKET.

Union Stock Yards, Chicago, March 29.—The disastrous floods in Ohio, Indiana and in other sections east of Chicago have played a prominent part in shaping the conditions prevailing in the live stock trade during the week now closing. The cattle trade, which as noted in these columns a week ago, was on anything but a stable basis and ripe for declines, has been seriously affected by the disruption of transportation agencies over a large flooded area in Indiana, Ohio and Illinois, indirectly affecting an even larger territory further south and east. Shipments of both live stock and meats to Atlantic seaboard points has been seriously hampered, and the result has been very depressing, which will be in evidence all of next week and possibly longer. There is danger of a congestion of supplies during the coming week and light runs are imperative if present prices are to be sustained. Industry has been paralyzed over thousands of square miles of populous territory and a period of temporary stagnation is to be expected in the beef market which is peculiarly sensitive to such influences. A few days may radically change the situation, but congestion is the thing to be avoided for the moment.

Fortunately for the selling side, the week's cattle supply has been light, otherwise thorough demoralization of the market would have ensued. As it is the market is seriously in need of an apologist. Light and handy weight finished steers alone escape quotable decline and only choice goods of such weights have held fairly steady. Plain, medium and heavy steers are showing fifteen to twenty-five cent declines from a week ago. A slump in the feeder market has had its effect on all steers selling last week below $8.25. Country buyers, because of the restrictions placed on demand by crippled railroad service which eliminated buying for shipment to Indiana, Ohio and some other sections, have not been competing for $8 to $8.25 steers and relieved from this competition killers have hammered the low end of the price list hard and the range in values has widened. As predicted, heavy bullocks have become more unpopular, and as the season works along fat 1,300-pound and under bullocks will get much the best of the demand.

The best cattle here this week sold at $9.10, but $9 took a cut of the same qualitied steers toward week-end and the latter price is regarded as the present extreme limit of the market. Since Monday, comparatively few steers have sold above $8.65, and a lot of medium, light and plain heavy killers have sold here during the last few days at $7.65 to $8.25.

Feeder distribution has been paralyzed by the floods and declines ranging from fifteen to forty cents from a week ago have resulted, fifteen to twenty-five cents covering the loss in most instances. Until normal traffic conditions can be resumed, a big territory that draws its stocker and feeder supplies from Chicago cannot be served and this temporary restriction of demand must be met by curtailed receipts unless further declines are registered. A poor clearance has been made this week, although prices have been and are on a more attractive basis to prospective purchasers than at any previous time recently. The $8 quotation for choice selected feeders is debatable, $7.75 to $7.90 having bought a very desirable class here yesterday and today. Demand centers on quality and it is the chief price-working factor, rather than age or weight. High qualitied steer calves and yearlings are bringing as must per cwt. as fleshy feeders. Bulk of the fair to good 600 to 950-pound weights are now selling at $7.25 to $7.65, while $6.75 to $7.10 is taking plain light stockers and common feeders and common little stock steers are going downward from $6.50, few feeding heifers making $6.25, and a common light stocker sort going down around $5.50.

Butcher cattle have had a hard slump. It was coming to them, for everything in line of the stock and bulls has been relatively much higher than steers, and the decline in beef steers this week, together with the contraction in the outlet by reason of the floods merely accentuated the downward movement. There was a flurry early Wednesday in the trade for good fat cows and heifers and some selling at that period were as high as at any time this season, but the bottom fell out of demand before the close that day and sharp irregular declines have since been effected. Prime fed cows and heifers and low grade comers have been least affected but such are down ten to twenty-five cents, from the week's best levels, while all other classes show declines ranging from twenty-five to fifty cents and the bulk of the trading is on a twenty-five to forty cent lower basis than a week ago. Prime fat bulls are down ten to fifteen cents for the week, most butcher grades fifteen to twenty-five cents and bolognas twenty-five to forty cents lower, the demand for the latter being seriously curtailed by lack of shipping competition due to impaired railroad service to eastern points. Calf values have been pounded hard and further declines would not be surprising. Good to choice veals are selling at $9 to $9.25, against $11 to $11.25 a week ago and a $12 market for the best just before Easter. Quotations:

BEEF STEERS.

Prime steers, 1350-1700 lbs...	$8.90@9.00
Choice steers, 1250-1500 lbs..	8.75@8.90
Choice steers, 1100-1250 lbs..	8.75@8.90
Good to prime yearlings....	8.40@8.75
Medium to good yearlings..	8.00@8.40
Common to fair yearlings..	7.25@7.90
Good steers, 1,100-1,400 lbs..	8.20@8.60
Good steers, 900-1,200 lbs...	8.00@8.60
Fair steers, 900-1,200 lbs....	7.65@7.90
Medium steers, 850-950 lbs..	7.40@7.50
Inferior steers, 850-950 lbs..	7.00@7.35

Apperson Apperson

The Lowest Priced Car

is not the cheapest car. For a moderate price you can get a lifetime car at the lowest cost of upkeep, in the

Apperson "Jack Rabbit"

How long will a cheap car last? Nobody knows.

Each buyer runs his own risk. None of them are over 4 or 5 years old.

The "Jack Rabbit" will last at least 20 years. We can assure you of that. There are Apperson-made cars still in use 17, 18 and 19 years old. When you consider how much more perfect and reliable than these are our cars of later years, you can understand what Apperson reliability means.

Not one "Jack Rabbit" has ever worn out. The average age of the 17,000 Appersons in use is already 8 years and constantly rising. There's no limit to the durability of the "Jack Rabbit." It is the lifetime car.

How much will a cheap car cost for mechanical upkeep?

Another uncertainty. You may be fortunate and get off easy. The repair shops are full of such cars. The junk-man is making a fortune out of them.

A "Jack Rabbit" car costs practically nothing for mechanical upkeep.

In spite of the fact that there are many relics of the earliest days of motoring among our cars still in use—the average cost of mechanical upkeep is only $5 a year. Other cars average $20 and over—and these are comparatively new cars

The "Jack Rabbit" is economical of fuel and easy on tires.

If you haven't money to waste, better look into this question of upkeep thoroughly. You can't afford a car if you have only enough means to get a **cheap car**

Write for the "Jack Rabbit" Catalog Today.

Apperson Bros. Automobile Co.

45 H. P. $1600 **319 Main St., Kokomo, Indiana** *55 H. P. $2000*

The Car With the Powerful Engine (14)

TWENTIETH 1893 1913 ANNIVERSARY

Electric Self-Starter and Electric Lighting Furnished if Desired

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For Over Fifty Years a Favorite the World Over

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In all parts of the world this time tested Binder is growing in favor, more and more each year.

It is growing because it is a better binder than any other. Gives better service—is more simple in construction—lighter draft—costs less for repairs. Its design is such that it works easier—without the strain and wear of other binders, consequently less time lost and less breakage.

Its materials are the very best and every wearing part has been carefully and scientifically designed to produce the greatest durability with lightness of draft.

FOR LONG OR SHORT GRAIN FOR HEAVY OR LIGHT CROPS

The Adriance Binder will handle long or short grain, heavy or light crops equally well. It can be instantly changed, without the driver leaving his seat, to bind grain anywhere from 20 inches down to 7 from the butts, making a square butted, well-tied bundle in every case.

ADRIANCE BINDERS GIVE BEST SERVICE FOR LONGEST TIME AT LEAST EXPENSE.

Write for FREE ILLUSTRATED BOOKLET.

MOLINE PLOW CO.

Dept. 11. MOLINE, ILL.

Manufacturers and Distributors of

Adriance Harvesting Machinery

Fills 60-ft. Silos With Ease!

The day of the skyscraper Silo is here. No Silo too high for the Smalley! Mr. H. E. Williams, Clinton, Wis., says: "The Smalley No. 18 Force Feed cutter with chain drive blower did fine work. We filled one silo 14x35 feet in 8 hours with 8 teams hauling the corn." When C. I. Cook, Menominee, Mich., wanted to fill the 4 biggest Silos in the U. S. he got a Powerful "Smalley." Real business farmers like Messrs. Williams and Cook have no time to fool with the old slat-apron type of machine. They want this **force-feed chain-table, grip-hook** kind, made by Smalley only. Thus they save a **tremendous** amount of work and do a **quicker, cleaner** job. No coarse, uneven silage. All **uniformly cut.** Which means greater tonnage per silo.

POWERFUL SMALLEY FORCE-FEED SILAGE CUTTER

not only handles **green** silage, but is also a wonder at cutting **dry feed.** Handles alfalfa, for instance, **to perfection.** Letters in catalog prove it. Many farmers use their **Powerful "Smalley"** to cut corn in the fall and oats and peas in the spring for feeding when pastures dry up in July. Only one drive pulley on Blower outfits. No Idler to oother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

You won't know what a **real** Silo Filler is till you've seen the **Powerful "Smalley"** or had the Smalley Catalog. Why not send a postal this minute for the latest Smalley Catalog and learn about the Silage Machine that four out of five silo owners now use? Write **now** and you'll get this **fine,** useful Book **by return mail.**

SMALLEY MFG. COMPANY
Box 37 Manitowoc, Wis.

Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters, Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Plows, Cob Grinders and Feed Mills.

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No Fear of Break Downs

You need an engine you can depend on when you're shelling.

The 5 h. p. Rumely-Falk Kerosene Engine

is well built, reliable and cheap to run. Burns cheap kerosene under all conditions. Throttle governed, even running. Belted to the

Rumely-Watts No. 2 Corn Sheller

you have a combination which gets all the corn in the shortest time.

Capacity, to keep you more than busy. Both engine and sheller will stand the hardest usage in cross country shelling or elevator work. Larger outfits if desired.

Rumely-Falk Kerosene Engines are made to fit any condition, skid-mounted, stationary or portable.

Write for Data Book No. 118a on Rumely-Falk Kerosene Engines, and Data Book, No. 351 on the Rumely-Watts Corn Sheller.

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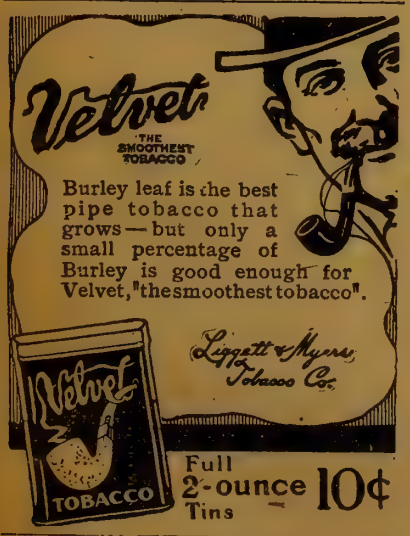

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Full 2-ounce Tins 10¢

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Fair to good light cutters..	4.40@4.60
Fair to good canners.....	4.15@4.35
Poor to fair canners.....	3.85@4.10
HEIFERS.	
Choice to prime heifers....	$7.40@8.15
Good to choice fed heifers..	6.85@7.40
Fair to good heifers.....	6.25@6.85
Common to fair heifers.....	5.25@6.25
BULLS.	
Good to choice bolognas....	$6.00@6.15
Light and med. bolognas....	5.60@5.90
Canner and poor light.....	5.00@5.50
Fair to choice butchers.....	6.30@6.85
Choice to fancy beef.....	6.85@7.40
VEAL CALVES.	
Good to choice vealers.....	$9.00@9.25
Fair to good light vealers..	8.50@9.00
Strong weight vealers.....	6.75@8.25
Good to choice stock calves.	7.00@7.65
STOCKERS.	
Selected, 500@700 lbs.....	$7.50@7.85
Fair to good.....	7.00@7.40
Common to fair.....	6.00@7.00
Stock heifers, com. to good.	5.40@6.10

Acute scarcity alone is responsible for further elevation of hog prices this week. Prices are now on a twenty to twenty-five-cent higher level than a week ago, though five to ten cents lower than last Wednesday when the market hits the highest levels recorded since September, 1910. Some further advances during early April do not seem improbable, but with hogs now costing $1,500 to $1,600 a car, it does not seem a time for the dissemination of bullish opinion. An expansion of the marketward movement after oats seeding and another when corn planting is completed, is looked for, while in May eastern hogs will begin running and shipping demand, which has been the stout prop under the market all winter, will diminish. Yet, a high market all summer is more than probable. Cholera reports continue to come in from Nebraska. The disease has been raging all winter in that state and prediction is made that both Omaha and Sioux City will have light runs throughout the summer. Only 270,000 hogs reported at the six leading western markets during the first five days this week and for the year to date the shortage in receipts at these six markets is about 1,130,000 head.

Chicago packers profess not to be worried over light lard stocks. "At no time during the winter packing season," says John Roberts, of Roberts & Oake, "was it profitable to cut hogs with a view to making a maximum quantity of lard, as the money was in meats, but as soon as the spring pig crop is weaned the country will fatten sows, and corn being cheap and abundant, the weight making process will be carried to the limit. There will be big money in the conversion process, and once the summer run of 'widows' starts, lard will pile up rapidly. The Chicago market closed Friday on the following basis:

Bulk of sales	$9.10@9.30
Mixed, 215 to 250 lbs.....	9.05@9.20
Mixed, 170 to 200 lbs.....	9.15@9.25
Medium weights	9.15@9.25
Light butchers	9.25@9.35
Heavy butchers	9.14½@9.22½
Light shipping	9.25@9.30
Heavy shipping	9.15@9.25
Heavy packing	8.85@9.00
Rough heavy packing....	8.65@8.85
Throwout packing sows..	8.35@8.65
Fair to choice light.....	9.10@9.30
Light-light, 125 to 165 lbs.	9.00@9.25
Pigs, good to fancy.....	8.25@9.10
Pigs, inferior to fair.....	7.00@8.15
Boars, poor to good.....	3.75@4.75
Stags, subject to dockage.	9.20@9.65
Government throwouts ...	4.75@6.85

Pure-Bred Seed Corn.

Petty Bros., Liberty, Mo., breeders of pure-bred seed corn have this year the choicest lot of sede corn they have ever produced. Their Yellow Dent and Clay County White varieties are not excelled for yield and quality. They also raise Reid's Yellow Dent and Petty's Early Eclipse and when they have sold that produced on their own farms they have no more to sell until another year so order early. Each variety is grown on a separate farm and every precaution possible is taken to keep each pure. This year they will ship ear corn in sacks thus saving the cost of crate to the purchaser. Last year Petty Bros. sold all their corn early in April and during the latter part of the month hundreds of dollars in drafts and money orders were returned, so do not delay placing your order if you want Petty Bros. seed corn.

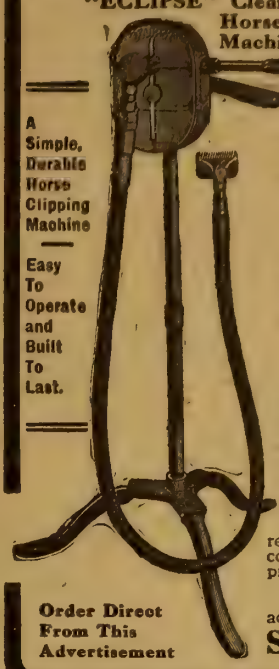
The Beautiful Moore Corn Book.

C. Ray Moore, "The Man Who Does Things With Corn," on the famous Sunkist Farms, adjoining Kellerton, Iowa, has written a corn book which, in its beauty of makeup and its ability to intensely interest any good corn grower, is a real gem. Mr. Moore, starting as a poor farm boy who had to learn the practical side of corn growing in the school of "hard knocks," has attained to an education in scientific corn breeding and development, and is becoming nationally known as a originator of high-yielding strains of farm seeds, especially seed corn. His corn book tells in the author's unique, original style how he rose from obscurity to success in corn breeding work; and describes the steps by which he perfected a strain of corn that has yielded exceedingly well. On Sunkist Farms he has built modern seed houses in which he dries early fall selected seed ears on rack driers of his own design. He has a characteristically striking announcement elsewhere in this issue in which he offers his corn book free to corn growers. Look up the announcement and write for a copy today.

Two Big Bargains

"Hathaway" Single Buggy Harness
$13.68

For Every Man Who Owns a Horse.
"ECLIPSE" Clean Cutting Horse Clipping Machine.



A Simple, Durable Horse Clipping Machine

Easy To Operate and Built To Last.

Order Direct From This Advertisement

Two articles of exceptional merit backed by the strong Sears, Roebuck and Co. guarantee and priced at astonishingly low figures.

This is just the time of year to overhaul your harness in preparation for the heavy spring work and to clip your horses.

Send in your order today for either or both of these items and we will ship the goods promptly allowing you full privilege to return them and get your money back if not satisfied in every particular.

Only $7.50

For Our Guaranteed "Eclipse" Clean Cutting Horse Clipping Machine.

This machine is equipped with the improved Eclipse clean cutting head and hose covered flexible steel shaft with flexible chain.

No. 10W4680¼ Shipping weight, about 48 pounds. Price.... **$7.50**

Only $13.68

For Our Big Value "Hathaway" Single Buggy Harness with Nickel Buckles, Solid Nickel Hook and Terrets.

Blind bridle, ⅝-inch box loop cheeks, overcheck or round side reins, ⅞-inch by 1-inch lines, V-shaped breast collar, ⅝-inch split neck strap with line rings, 1¼-inch single strap traces; 1⅜-inch single strap breeching; ⅝-inch split hip straps; ⅝-inch side straps; ⅞-inch scalloped turnback with crupper sewed on; gig saddle, flexible tree, Griffith style bellyband and shaft tugs.

No. 10W47108¼ Shipping weight, 21 lbs. Price **$13.68**
No. 10W47109¼ Imitation rubber trimmed; genuine rubber hook and terrets. Price, **$14.69**

Our handsomely illustrated Special Harness Catalog is now ready. It contains 80 pages, many in colors, showing the most complete line of harness, saddlery and accessories at economy prices ever presented.

You need this book and we want you to have it.

Just write "Harness" on a postal card and sign your name and address and we will send it postpaid.

Sears, Roebuck and Co., Chicago

Firestone

SMOOTH TREAD OR NON-SKID TIRES

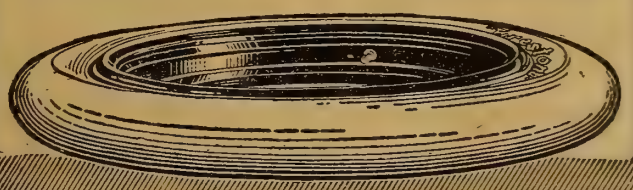
For Economy

THEY cost least because they last longest. They are worth more because they not only give most mileage but their greater strength means surest freedom from tire troubles, delays and road worries of all kinds.

Extra thick, tough tread and superior body construction have made them first choice for hard service for nearly 14 years.

Ask your dealer—and write us for H. S. Firestone's book, "What's What In Tires."

The Firestone Tire and Rubber Co.
"America's Largest Exclusive Tire and Rim Makers"
Akron, Ohio All Large Cities



The Marlin Model 1897 Repeating Rifle

Shoots all .22 short, .22 long and .22 long-rifle cartridges; excellent for rabbits, squirrels, hawks, crows, foxes and all small game and target work up to 200 yards.

Here's the best-made .22 rifle in the world!

It's a take-down, convenient to carry and clean. The tool steel working parts cannot wear out. Its Ivory Bead and Rocky Mountain sights are the best set ever furnished on any .22. Has lever action—like a big game rifle; has solid top and side ejection for safety and rapid accurate firing. Beautiful case-hardened finish and superb build and balance. Price, round barrel, $14.50; octagon, $16.00. ¶ Model 1892, similar, but not take-down, prices, $12.15 up.

Learn more about all Marlin repeaters. Send 3 stamps postage for the 128-page Marlin catalog.

The Marlin Firearms Co.
135 Willow St., New Haven, Conn.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Apr. 16, Chas. Escher & Son, Botna, Ia.
Apr. 30, Association spring bull sale, Omaha, Neb.
May 2, Association spring bull sale, Chicago, Ill.
May 3, Association spring bull sale, East St. Louis, Ill.
May 27, P. J. Donohoe, Holbrook, Iowa.
May 29, Otto V. Battles, Maquoketa, Ia.

Short-horn Cattle.

Apr. 22, Geo. Allen, Lexington, Neb. (sale at South Omaha).
Apr. 23, R. C. Firme, Hastings, Neb., and A. A. Stone, Hansen, Neb. (sale at Hastings, Neb.)
Apr. 29, W. H. Bryson, Lake Fork, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Reese & Son, Pilger, Neb. (sale at South Omaha, Neb.)

Hereford Cattle.

Apr. 16-17, Combination sale, South Omaha, W. N. Rogers, Mgr., McCook, Neb.
Apr. 29, Taylor & Welty, Wanatah, Ind.
Apr. 29, W. H. Bryson, Lake Fork, Ill.
May 6, Breeders' sale, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.

Holstein-Friesian Cattle.

May 1-2, T. H. Russell, Geneva, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Guernsey Cattle.

May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Percherons and Belgians.

Apr. 17, Frank S. West & Son, Wood River, Neb.

FIELD NOTES.

A good Shire stallion is offered for sale or exchange by Perry O. Brown, Lamoni, Iowa, elsewhere in this issue.

Any reader of The Homestead desiring to purchase a Scotch Terrier male, in age not over four, or a good male pup should read the advertisement, the address of which is Lock Box 37, Riverside, Iowa, that appears elsewhere in this issue.

W. H. Bryson, Lake Fork, Ill., will sell a draft of sixty head of Short-horns from his Forest Home herd Tuesday, April 29th. Forty-five cows and heifers and fifteen bulls will be offered, full particulars regarding which will be given in later issues.

The Hereford herd of Taylor & Welty will be dispersed at Wanatah, Ind., April 29th. Sixty head of good producing cattle will be sold, particulars regarding which will be submitted later. Applications for catalogs should be filed with Taylor & Welty, Wanatah, Ind.

On page 35 of this issue of The Homestead will be found the advertisement of Jas. H. Duncan, Lineville, Iowa, in which he is offering for sale heavy-boned Poland Chinas of both sexes and an age. He also has Barred and White Plymouth Rock chickens for sale.

Geo. S. Redhead announces in his advertisement on another page that he is making a specialty of selling Jersey bull calves in crates. Shipment in this manner can be made at greatly reduced prices. Mr. Redhead guarantees safe delivery and offers a line of breeding which is superior from a producing point of view. He also has one mature herd bull and two yearlings. Address Geo. S. Redhead, Des Moines, Iowa.

Short-horn Cattle Wanted.

Elsewhere in this issue will be found the advertisement of Perry O. Brown, Lamoni, Iowa, who is offering a good Shire stallion for sale or he will trade him for good registered Short-horn cattle. If you have the cattle you can make a good deal with Mr. Brown. Write him at once.

Baker's Angus Bulls.

Matt Baker, Mitchellville, Iowa, is advertising two Angus bulls that are of the herd-header kind. Both are double Blackbirds and are sired by the double Blackcap bull, Black Opal 125453. One is out of Blackcap of Leaside and the other is out of Blackbird of Cloverland, for which Mr. Baker paid a long price. These are extra well-bred bulls and Mr. Baker says they are as good as their breeding. See his advertisement elsewhere and write him mentioning The Homestead.

Russell's Holstein Sale.

The 200 head of Holstein cattle that T. H. Russell will offer at public sale at Geneva, Ohio, May 1st and 2d, will be one of the greatest lots of dairy cattle ever offered at public sale by one breeder. Mr. Russell has one of the largest herds in the country, headed by four of the best sires of the breed, hence is able to place before the public a very attractive offering. Mr. Russell has recently added to his herd the great bull, Pontiac Hengerveld Parthenea, sire of the senior four-year-old world champion cow and several thirty-pound daughters. This gives him four strong sires at Idle Hour Farm, the other three being De Kol Hengerveld Burke, Crown Prince Segis and Count Cornucopia Korndyke. So many outstanding sires cannot be found at any other breeding establishment, and when one considers that nearly all of the 200 females to be sold May 1st and 2d are either by one of these bulls or else bred to one of them, the worth of the offering is at once apparent. There will be cattle in this sale to suit you, the progeny of high-class sires from A. R. O. dams and many of them having records. Mr. Russell does not do things except in a broad-gauge way and he wants it thoroughly understood that every animal in the sale will be a choice selected individual, free from blemishes and guaranteed right in every way. Further particulars regarding this sale will appear in later issues. Write today for a copy of the catalog to T. H. Russell, Geneva, Ohio, mentioning this paper.

C. A. Saunders' Bulls.

Those of our readers who are going to be on the market for a good young Short-horn bull should write or go and see C. A. Saunders, Manilla, Iowa, as he is offering some good Scotch and Scotch-topped bulls for sale. A number of these will make splendid herd bulls and they are bred in the purple Make it a point to go and see these bulls just as soon as you can as the demand is so strong at the present time that they will not last very long. Please mention The Homestead when writing him.

Briggs Bros. Offer a Couple Choice Duroc Boars.

Briggs Bros., Seward, Neb., have for sale a couple of herd-heading fall boars. These are not the ordinary sort, but real herd headers, both from the point of individuality and breeding. They will also be hard competition to beat at the shows next fall. Our readers in the market for something of this sort will do well to write as above for full particulars and mention The Homestead. The writer knows the stock offered and we do not hesitate to recommend them to the stockmen looking for the best.

Good Hereford Bulls for Sale.

If you are on the market for Hereford bulls make it a point to read the advertisement of A. Spooner & Son, Mondamin, Iowa, elsewhere in this issues, and then go and see them at once. They have 100 young bulls for sale, all ready for service and bred in the strongest blood known to the breed. They can fill your order for a car load if you want that many and it is about the only place where we know you can get bulls just now, and it therefore behooves you to go and see them at once. They will also spare about a car load of cows and heifers.

HIGH-CLASS HEREFORDS AT AUCTION.

IN SALE PAVILION

SOUTH OMAHA, NEBRASKA,

WEDNESDAY, APRIL 16, 1913

SIXTY-FIVE head of extra select cattle from some of the most prominent herds in America will be offered. These cattle are all of desirable ages and of the very best breeding obtainable. There will be fifty choice young bulls, ready for hard service and in perfect health. The females are young breeding cows and either with calf at foot and bred again or ready to calve. H. J. Fluck, Goodenow, Ill.; W. H. Leslie, Auburn, Ia.; A. W. Elliott, Reynolds, Ill.; C. Bengen, Mynard, Neb.; J. C. Hatz, De Witt, Neb.; J. C. McNerny & Son, Coin, Ia.; W. N. Rogers, McCook, Neb.; Guy Schwab, Murray, Ia.; G. E. Stryker, Rising City, Neb.; C. T. Bailey, Lowell, Ind.; O. J. McCullough, Clarks, Neb.; Ben Broughton, Lake View, Ia.; H. A. Rogers, McCook, Neb., and E. H. Gifford, Lewiston, Neb., are the men who consign this offering. Their names are sufficient guarut some excellent polled specimens are Most of the offering is horned, but some excellent Polled specimens are listed. Keep the date and place in mind and plan to attend. Write for catalog today, and when doing so mention The Homestead. Address

W. N. Rogers, Mgr. - - - McCook, Nebraska.

Cols. Callahan & Zaun, Auctioneers.

NEXT WEEK'S SALE PROGRAM

Tuesday, April 8 } Aberdeen Angus, Walter Roberts' Estate, Atlantic, Ia.

Thursday, April 10 } A. C. Shallenberger, Alma, Neb.

When you write them kindly mention The Homestead.

McLaughlin's Short-horn Bulls.

A splendid Scotch bull is being offered for sale by W. M. McLaughlin, Shelby, Iowa, in Amercian Goods, that good son of Imp. Choice Goods. This bull has been at the head of his herd, and as he wants to retain his heifers he has made up his mind to part with him. Should someone desire he might consent to sell his splendid Jasmine bull that he bought of Charlie Daws. At any rate he will sell one of these two bulls, as he does not need all of the herd bulls he is now using. He also has ten young bulls for sale. When writing him kindy mention The Homestead.

West & Son's Horse Sale.

A dispersion sale of Belgian and Percheron stallions and mares that is of national importance is the sale that will be made by Frank S. West & Son, Wood River, Neb., on April 17th. The Hon. Frank S. West is retiring from the business and as the son, Raymond H. West, is now in the Nebraska legislature, these gentlemen have decided to close out their entire stud. The writer has known much of this stud for the past few years and we were always pleased with the class of stuff handled, and the manner in which these gentlemen did business. We also believe that the horses offered at this time will be a better offering by far than has ever gone out from this stud before. A couple of years ago these gentlemen made the best auction sale of draft horses ever held in Nebraska. There were buyers from several states, and the class of horses put up merited the competition which made that sale such a success. The offering for the present sale is much better than the one at that time, and the readers of this paper will overlook an opportunity to secure high-class horses if they fail to attend. The noted Belgian stallion, Attraction de Zulte 51974, will be offered in this sale. He is now rated among horsemen in Belgium as one of the very best ever produced. His get have been persistent winners in all of the big shows of the old country, and the press of that country and high officials express regret that this horse was ever allowed to be exported. The writer is of the firm opinion that this horse would sell for double the money in the old country that he will bring here, but he is going to sell anyway, and without reserve or protection. This is the place to buy a horse to head that pure-bred stud. We do not know of a better one. There will also be offered some very high-class Percheron stallions included. Among the number is the excellent Percheron stallion that has been in use in this stud. He is just such an opportunity for the breeder of pure-bred Percherons as the Belgian is for the breeders of that kind. We know of no better, and we would advise those looking for the very best to attend this sale. The mares are one of the best offerings ever sold in the West anywhere. Big boned, sound and clean. Many just from the old country long enough to be acclimated. The greater part of the home breds included are equally this offering is imported stock, but valuable. Make a special effort to be on hand for this sale and we would urge that you send in your names at once for the catalog which will be sent without delay. Mention The Homestead when you write.

Chester White Sows.

G. O. Satre, Jewell, Iowa, is offering some bred Chester White sows for the late trade in a new advertisement starting this week. This name is a new one to breeders, but the herd contains blood lines of some of the best-known Chester White men. The foundation stock comes from the great sow of the American herd of Alden Anderson, at Ellsworth, Neponset Queen, and Mr. Satre has chosen boars of good individuality with breeding to match, for service. One other feature of this herd is the fact that the entire lot of sows offered are thrifty and healthy, giving assurance of profit-making qualities in the hands of new owners. They are bred to Iowa Pride 8th, a Hoover-bred boar from some of the best lines of his breeding. The sows represent much of L. C. Reese's breeding on the sire's side and one, Iowa Peach, is out of a sow, White Blossom, by Keep On, dam Fancy Belle, names remembered by those who were familiar with the 1911 show cards. Write in for bargains on sows. Address G. O. Satre, Jewell, Iowa. Advertisement elsewhere in this issue.

Geo. Allen & Sons' Short-horn Sale.

We are this week calling attention to the sale of Scotch pedigree Short-horns that will be made by Geo. Allen & Sons, Lexington, Neb., at South Omaha, Neb., on April 22d. In many respects this is one of the greatest sales of Short-horn cattle that has ever been held in the West. It contains an unusually choice lot of grand producing cows, right in the very prime of life, and also a choice lot of excellent younger things. With one or two exceptions everything is of breeding age, however, and every cow that sells with a calf at foot or in calf is bred to a bull of the very highest order. Many of the cows with calf at foot are bred again, and to the new man in the business this sort of cow should especially appeal. Many of the older herds, as well as the newer ones, could profitably use some of these good cows and heifers, and we certainly recommend them to all in search of good cattle. Few herds of pure-bred cattle in America have been so builded as this herd. Few men in the business of breeding choice cattle of any bred are so well adapted to the work as George Allen or his sons. It takes years of patient effort, fixed ideals and a natural inclination for this class of work to make for the success that these gentlemen have attained. George Allen was trained to the business in the old country, he has employed the methods of the very best of the old country breeders and the results are manifest. Such cattle as will go in this sale are worth a great deal more to the American stockman than cows that have been mated promiscuously. They are worth more for the reason that they have been bred right, that no inferior crosses have been allowed and this work is worthy of reward. The cattle from this herd make good. The writer has seen them in many hands and under many different conditions and they were invariably of the right sort. Every year a better lot has been offered, and those that sell at this time are better by far than those sold a year ago. The stockmen of the corn belt will not be dealing fair with themselves if they fail to attend this sale. The writer is familiar with this breed, with most of the leading men in the busniess, and we know whereof we speak when we say there is sterling worth in every member of the catalog. There are herd-heading bulls in this sale. As good a bull as we have seen sell at auction in many years if ever sells in this sale. Others that might be preferred by good judges, however, but poor selection will not be made, for they are not offered. We would like for every reader of The Homestead interested in good Short-horns to send for the catalog. It will be sent to all who apply and mention The Homestead. A catalog of such pedigrees is published but very, very few times a year and you should have this one.

Beall & Jackson Offer Choice Poland China Boars.

With this issue of The Homestead, Beall & Jackson, Roca, Neb., are starting an advertisement in which they offer a choice bunch of fall boars. Those of our readers in search of choice Poland Chinas will do well to keep this herd in mind. The writer has been in close touch with this herd since its founding, and we wish to say that none but the very best of sires and dams have been used at all times. At present a son of A Wonder, a son of Sampson and a son of Big Price 2d are in use in the herd. These boars are of the right sort, and the A Wonder boar, called Nebraska Wonder is one of the best breeding A Wonder boars we know of. His get look especially good to us, some of them being as choice as any we have seen thus far this season. The best fall boar that we have seen this season, or in fact for a long time is in this herd. He is by Nebraska Wonder and out of the great producing sow, O'Connell's Wonder by the 1,000-pound O's Jumbo, and she is out of a daughter of B g Tecumseh. This boar is of September farrow and will weigh about 300. He is not fat however, but just a great big boar, with excellent back, the very best of feet and legs, and as heavy boned as any pig of his age that we ever saw. This boar is the right sort to head an extra high-class herd and should be a good breeder, coming as he does from such a line of ancestors. Another young boar, almost as good is by Nebraska Wonder and out of a daughter of the noted Jumbo Jr. by Nebraska Jumbo. This boar, Jumbo Jr., is the head boar in the herd of Albert Smith & Sons, Superior, Neb., breeding big boars in the country. This young boar we mention we would recommend to any of our readers looking for a first-class pig. He is going to be a big one, and, of course, is not filled out as smooth as some might look for, but we know what is back of him, and we predict that he will be better than a 900-pound boar at maturity if properly cared for, and smooth enough to please the most exacting. If you want something good, order this pig. A little mate to the one first described might suit some better as he is a pig of more width and not the making of quite so large a hog, but neverthless the making of a mighty good one. Those looking for a little more quality and not quite so much scale will be pleased with him. This herd of Polands is one that we wish our readers to keep in mind, for the men in charge of it are "old timers" in the hog business and our readers may well look for good stuff from this herd. Address these gentlemen at once and ask for full particulars concerning these fall boars.

and remember that they are really good. A few extra choice gilts will be bred for fall litters, and orders for same will have to be sent early, as only the ones ordered will be bred. Spring boars will also be sold soon, and at very attractive prices. Parties living at great distances should ask about them, as the express charges will be light. Be sure and mention The Homestead when you write.

The Great Short-horn Bull, Comet, Changes Hands.

Wm. Arrowsmith, Exeter, Neb., owner of one of the choice herds of Short-horns of central Nebraska, recently purchased the great Scotch bull, of Con McCarthy, York, Neb. This bull is a beautiful roan and sired by the noted Snow Flake. His dam was one of the choice young cows of the Everett Hays sale at Hiawatha, Kan., at the time of its dispersion. Mr. McCarthy has used Comet in the herd for some little time, and the line of calves that he has got at that farm is a good indication of what he will do in the herd of Mr. Arrowsmith. Mr. Arrowsmith has been using a son of Red Champion for some time, and also has a few cows by that great Scotch bull. Mr. McCarthy is now using a Lavender Clipper bull, and he is now doing some good work. These herds are both among the very good ones of the state, and the writer is glad to know of this sale, as it puts a good bull in the hands of Mr. Arrowsmith, and he was not now needed badly by Mr. McCarthy. Each of these gentlemen has a choice young bull or two for sale. Should you write them, kindly mention The Homestead.

Phillips Offers Fall Poland Boars.

C. W. Phillips, New Sharon, Iowa, one of Iowa's best-known breeders of big-type Poland Chinas, starts an advertisement in this issue of The Homestead, offering a number of August and September boars of the big type. Four of these are sired by Big Bone 3d, a grandson of the noted Big Bone and out of a Long King sow. The balance are sired by Long King's Superior, one of the best boars old Long King ever sired. Long King's Superior is two years old and has a wonderful depth, is very thick and as smooth as you get them. He is probably the best boar Charlie Phillips ever owned and is bound to make a mark in the Poland China world. Now is a good time to buy a son Long King's Superior at a very reasonable price and get the benefit of the advertising that is bound to come to this great boar. Mr. Phillips will sell these boars at $25 each for the next thirty days. Anyone in need of a boar should send him a check for $25 and he will send you a boar worth the money. Upon the arrival of the pig if you are not satisfied you can return the pig and Mr. Phillips will gladly refund your money. This is as fair as anyone could possibly be and Mr. Phillips is a man to stand back of every statement he makes. Look up the advertisement and write him mentioning The Homestead.

Rogers Hereford Sale at South Omaha.

The sale of Hereford cattle made under the management of W. W. Rogers, McCook, Neb., and held at South Omaha, Neb., each season has always been one of the foremost Hereford events of the season. Mr. Rogers is a sale manager with but few equals, as he has the interest of the breed at heart, and only solicits such consignments as are high class and a credit to the breed. He also is a man of wide experience in the Hereford cattle business and is well acquainted with a great number of men interested in the good cattle and will under no consideration accept consignments of other than good cattle. The names of the men that consign to this sale and which appear in the advertisement on another page are sufficient guarantee of the excellence of the offering. A big lot of choice cattle will be placed before the western buyers at this time. McNerny & Son offer choice bulls sired by Move On 43d of the famous March On Family, and out of dams strong in the blood of Corrector, Fowler and the Grove 3d. Guy Swabb, Murray, Iowa, offers Jasper Donald by the great Beau of Shadeland 31st, by the great show bull Beau Donald 28th and has for dam a daughter of Monarch of Shadeland 3d, one of the largest and best bulls of the breed. G. E. Stryker offers a few bulls by Princeps A. Jr., a Princeps 4th bred bull. One is out of Imp. English Lady and the others out of cows noted for their produce. W. H. Leslie enters a number of bulls and females. Among them some strong in the blood of the polled bull Sir Giant. A. W. Elliott enters an even dozen in the sale. One choice cow by Logan's famous bull, Young Beau Brummel. This consignment is especially strong in the blood of old Grove 3d. Mr. Bengen consigns a number of good ones, principally by his great bull Ajax, Beau Diplomat. Mr. Bailey has sold in the Rogers sales for some time and has always brought out a good bunch. He says these are still better. O. J. McCullough lists a few high-class bulls from his good young herd. Mr. McCullough has a good herd and could not well offer any but choice ones. Ben Broughton, Lake View, Iowa, and owner of one of the very best herds of that great Hereford state consigns a bull by his famous Beaumont Jr. That is all the recommendation needed. E.H. Gifford, Lewiston, Neb., and one of the best breeders of Polled Herefords in the country offers a choice bull. G. C. Boehling offers a few bulls that are of nice ages and good breeding. They will please those looking for good ones. H. J. Fluck, of International fame as a steer exhibitor, lists a few. Mr. Fluck made a name for the Peerless Wilton strain. J. C. Hatz, De Witt, Neb., is making an initial consignment. The writer is personally acquainted with Mr. Hatz and bespeaks for him due consideration for his good cattle. They are strongly Polled and of grand breeding. The Rogers consignment will speak for themselves. They are the get of the great Beau of Shadeland 31st and Monarch of Shadeland 3d. These are two of the largest and best bulls of the breed. Send for the catalog of this sale at once and when you write mention The Homestead.

Walter Roberts' Dispersion Sale.

For the last time we want to call attention to Aberdeen Angus breeders to the dispersion sale of the Walter Roberts' herd at Atlantic, Iowa, on April 8th, when sixty head will be sold. During the past several years no man west has bought better than did Mr. Roberts, and the tops of many of the leading sales will be included. The old herd bull, Deceiver, a noted show bull and a spendid breeding bull, together with a splendid lot of young bulls will be sold, and a strictly high-class lot of females. Inasmuch as this is a dispersion sale it will furnish an opportunity that seldom comes to those who want cattle and were it not for the death of the senior Mr. Roberts this herd would never have been dispersed. The entire herd is rich in the most popular strains of the breed, and the foundation of this herd was laid without regard to time nor expense. We therefore say to Angus men or those who want to secure some good bargains in Angus cattle to make it a point to be at this sale. When writing for catalog kindly mention The Iowa Homestead.

Trunmans' New Importation.

Manager J. G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "I am pleased to report the safe arrival of our second 1913 importation on the 20th inst. They arrived without a scratch on them, free from any coughs or colds and looking remarkably well. In fact, they are already on sale. This importation in addition to our February importation and a few of our noted prize winners last fall, gives us a very complete assortment and makes our stables practicaHy full, every stall containing a high-class stallion. Our trade has been very good, a large per cent of our buyers being old customers, among which were J. T. Dunlap, Lenox, Iowa, to whom we have sold one of the best rising four-year-old Shire stallions that has been shipped to Iowa for a long time. We are making attractive prices to move this large collection of stallions to make room for our regular April importation that is due to arrive here about the 10th. We have at the present time on hand eight rising three-year-old Shire stallions bred on the noted Wrydelands Farm that should be very attactive to breeders requiring strictly high-class blood and together with all our horses are priced where they will soon be sold. We also have a few stallions that we have taken from our old customers that were sold to them three to five years back as two year olds that we are offering at very attractive prices in order to move them. Our 1913 catalog will be mailed to any of your readers that are interested in strictly high-class draft horses." See page 38.

Shallenberger's Short-horn Sale. Last Call.

For the last time we call attention to the sale of Short-horn cattle that will be made by A. C. Shallenberger, Alma, Neb., at the sale pavilion in Alma, on April 10th. In previous issues of this paper the writer has described at some length many of the cattle that will be sold in this sale. We wish to say at this time that we feel that the cattle business is in such shape as to justify conservative business men making investments in good breeding stock. Not in our memory has the future looked so bright, and we do not believe that all conditions have been so good for the future of the business at any time as they are right now. The high tide of prices is not yet on us, although there is considerable strength to the market, but with a reasonable season of crops, and stockmen will see an appreciation of values that will be very renumerative to the man that has some stock to sell. The cattle that Mr. Shallenberger will sell at this time are of such breeding and conformation that they are always good property, never were poor property, and probably never will be, at least never in our time, poor investments. There are positively some herd-heading prospects in this sale, bulls good enough to head the real good herds of high-class stuff, and there are also females that will look good in any herd and add a bit of value to them as well. A few right good cows in a herd help to raise the value of every other animal in the herd, so if the value of the young bulls one might have for sale in a season and the breeding cows retained were raised in value say $10 per head, an investment of a few good Scotch cows even at fairly good prices might mean that they really cost the new buyer practically nothing. Keep these facts in mind, get the idea that it will pay you to attend this sale, and then do that thing. It is the only way to succeed in this business, and time put off now in buying feeding stock is sure to be time put to a very poor purpose, for these cattle are going to cost more money. If you have not the catalog, a quick move will still get it to you in time, but at any rate go to the sale, and should you write mention The Homestead.

Cement Machinery.

Readers of The Homestead interested in concrete mixers, collapsible culvert molds and other machinery and material used in concrete work should read the advertisement on page 5, the address of which is Box 87, Dumont, Iowa. They also make buzz saws and power washing machines. This firm has been doing business in Iowa for a good many years and have established a good reputation. Many of their machines are sold close around home which would not be possible if their goods had not gained a reputation for quality.

Escher's Bull Offering.

Included in the Chas. Escher & Son Aberdeen Angus sale at Botna, Iowa, on April 13th, will be ten young bulls and among these will be several that will make outstanding herd bulls. It is one of the few remaining places where good Angus bulls can be secured and to those who are in need of a good herd header and have not as yet secured one, we will say by all means make it a point to attend this sale. They are selling four Trojan Erica bulls, each one a double-bred Trojan Erica, and each of these is good enough to head any of our very best herds. One of these is Elect, a son of that noted bull, Imp. Earl Eric, of Ballindalloch, and he is one of the very best Trojan Ericas that they will offer. He will be two years old in July or August and he is an outstanding good one. He has ample size with wonderful quality, a thick, low-down, well-balanced bull from one end to the other, and he is a bull that is destined to make an impressive sire and a splendid herd bull. Any of our best Angus breeders can afford to look after this bull, because he is good enough for the best of them. Another good one is an Erica topped Blackbird and is sired by Earl Eric, of Ballindalloch. The dam of this bull is Blackbird, of Cloverland IIth, and he is one of the very best of the younger bulls that will be found in the sale. A good K-Pride sired by old Kelberg and out of a K-Pride cow is another good one. This bull is a doubled bred K-Pride and he has every license to make a splendid herd bull. They are selling a good two year old by Botna Valley Prince and he is out of an imported Pride of Aberdeen cow, and he is also a good bull. There is a young Blackbird bull in the sale sired by Earl Eric, of Ballindalloch that is the making of a most excellent bull and a few others that will meet with favor of the buyers on the day of sale. Just a word here about the fifty females they are selling. You never saw a better bunch individually or in point of breeding. Ten imported cows, five of which have calves at side, and as good cows as ever graced any herd in this or any other country are listed for this occasion. Thirty-five cows with calves at foot, all of the calves being sired by their imported bulls or their young prize-winning bulls, Felzer or Bromo, will certainly look good to Angus breeders who desire to buy females with the coupons at their side. A remarkable thing about this sale is the fact that twenty-five of these females will weigh 1,500 pounds or better and every one a breeder and nearly every one of the twenty-five will have calves with them. Write for the Escher catalog and make it a point to attend this sale. When writing for it kindly mention The Homestead.

Crouch Endorses Wool Fat.

Our readers are familiar with the farm of J. H. Crouch & Sons, the noted horse importers and breeders of of the La Fayette Stock Farm, La Fayette, Ind. It can be depended upon when this farm endorses a proposition it is worthy of the good words given. In the case of the Corona Wool Fat they not only endorse it, but use it in large quantities. The manufacturers of this remedy claim for it that it is a positive specific for hard and contracted hoof, grease heel, thrush, sore shoulders, barb-wire cuts, sore teats on cows, etc. It is reduced and refined by The Corona Mfg. Co., Kenton, Ohio, a reliable and responsible firm. For particulars of their twenty-day trial offer see their advertisement in this issue.

TOO LATE TO CLASSIFY.

Belgian Emporium of America

150 Stallions, Mares and Colts 150

Including a Few Choice Young Percherons

60 HEAD imported October, 1912; another large importation arrived March, 1913, making this the best and largest collection of Belgian draft horses to be found anywhere in America. The supply on hand never allowed to run low; you will at all times find a large and choice collection from which to choose. You will be delighted at the Belgian Horse Show to which you will be treated when here. I can satisfy you in price; I can satisfy you in quality, bays, browns, blacks, sorrels and roans. Get on the train, come to Cedar Rapids or Iowa City, then phone me to meet you at the electric car line; car every hour from Cedar Rapids and from Iowa City. Catalog ready.

HENRY LEFEBURE, FAIRFAX IOWA.

FALL BOARS BY LONG KING'S SUPERIOR

AND Big Bone III. I have 4 fall Poland China boars by Big Bone III out of a Long King sow and a number by **Long King's Superior.** Send me a check for **$25.00** and I will send you a boar worth the money. If upon his arrival you are not satisfied send him back and get your money. Send me your order, mentioning The Homestead.

C. W. PHILLIPS, NEW SHARON, IOWA.

HERD-HEADING POLAND CHINA FALL BOARS

NICELY grown and of excellent blood lines. They are sired by Nebraska Wonder by A Wonder, and Chief Price Again. They are out of sows by O.'s Jumbo, Jumbo Jr. and others. Nothing better to be had at any price, yet we name farmers' prices on these good boars as we wish to sell them at once. Mention The Homstead and address at once Beall & Jackson, (12 miles south of Lincoln), Roca, Neb.

G. O. SATRE'S CHESTER WHITE BRED SOWS

GILT-edge breeding, sows thrifty and healthy, April and May farrow and priced for quick sales. The blood lines are productive ones and foundation stock was selected from leading herds. There are bargains. Address, mentioning The Homestead, G. O. SATRE, JEWELL, IOWA

SHORT-HORN BULLS

AT Pike Timber Stock Farm—2 Scotch Lancasters, 10 and 11 months old, both red and outstanding good ones; also 2 topped bulls 11 months old, red. DAVENPORT & MACK, Belmond, Ia.

LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Brawith Bud, Princess Royal, Alexandria and Athene families. Priced to sell. R. E. Baldwin, Osceola, Clark Co., Ia., on C. B. & R. Ry.

Two Blackbird Angus Bulls

BOTH double bred Blackbirds and of the herd heading sort. They are sired by Black Opal 125453 and out of Blackcap of Leaside and Blackbird of Cloverland. Matt Baker, Mitchellville, Iowa.

Mule-Foot Hogs

BRED gilts for spring farrow all sold. Some choice boars for sale. Am now booking orders for pigs of February and March farrow, in pairs not related Address Zene G. Hadley, Wilmington, Ohio

HEREFORD BULLS

12 BULLS from 8 to 15 months old, sired by noted bulls. Suitable for the farmer, ranchman and breeder. Best of breeding and great individuals. G. G. CLEMENT -- - ORD, NEB.

FOR SALE 1 eight-months-old black Percheron filly, 1 3-year-old French Coach stallion, Four 12-weeks-old Poland China pigs—1 boar, sired by big Surprise 3d. Address Henry Moll, Gardner, Iowa.

OAKVIEW DUROCS. Bred gilts and sows, March and April farrow. Prices right. For 30 days only, fall pigs, either sex, $12.50 to $15 each. Write us and mention Homestead. A. Nevins & Son, Modesto, Ill.

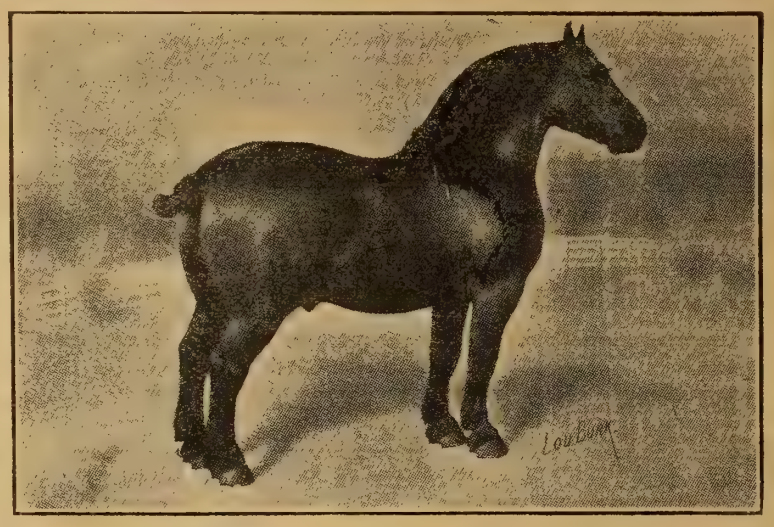
PERCHERONS Imported and home-bred stallions and mares from $200 to $900 each. Address H. REDENIUS, RUSHMORE, MINNESOTA.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks. James H. Duncan, Lone Oak Farm, Lineville, Ia.

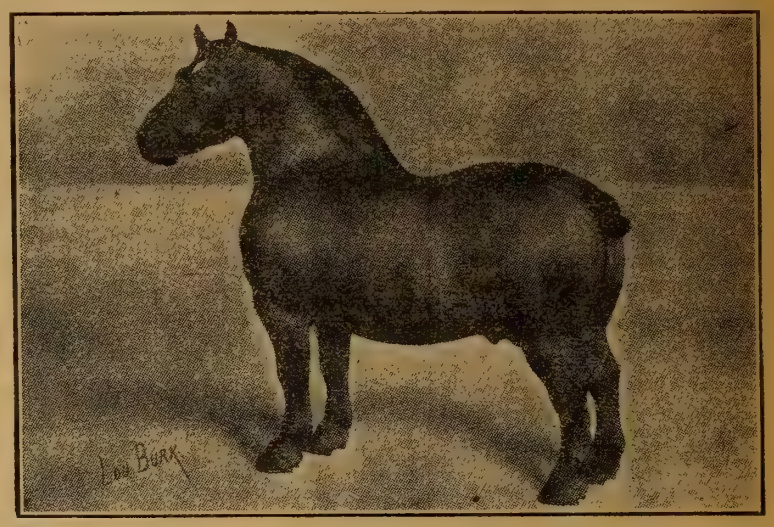
WEST'S GRAND DISPERSION SALE

of PERCHERONS AND BELGIANS will be held at WOOD RIVER, NEBRASKA, THURSDAY, APRIL 17, 1913

THERE will be forty head offered in this sale. Everything goes. Every one of our top stallions and mares that we have refused to price will be offered and they will absolutely be sold. There are fourteen stallions in the offering, which include some of the very best in this country as well as in Europe. Mares that have made our stud famous as producers, as well as for their great scale will be offered. Everything listed is of the very highest order, and in the finest condition possible. Nearly everything is imported, but the home bred ones are equally valuable. Do not miss this sale if in search of good ones.



One of the best Percheron stallions to be sold this season. Has been used extensively in this stud. Do not overlook this horse if in search of the very best.



Allbroction de Zulte (51974) one of the best Belgian stallions ever imported. Belgian horsemen and the government express regret that he was ever exported. He sells in this sale.

The quarter of a century that we have been in the business of breeding and importing pure bred horses has taught us much. It has placed at our disposal horses in the old country that newer men were unable to buy. It has given us the preference at many of the very best studs of the old country, and the years have proven the ones that bred the horses that made good. This is the sort that we offer you at this time. We are selling everything in this sale. Avail yourself of this opportunity to get the very best and at your own price. We want to send you a catalog. Write us mentioning The Homestead and you will receive one by return mail. Remember that Wood River is 16 miles West of Grand Island, Nebr., and that local trains leave Grand Island at 7:00 A. M. and 2:30 P. M. Plan to be with us sale day. Address

FRANK S. WEST & SON - - - - - - - - - - Wood River, Nebraska

COL. Z. S. BRANSON & CLYDE HAYHURST, Auctioneers

ANNUAL SALE SCOTCH PEDIGREE SHORT-HORNS

from the herd of GEO. ALLEN & SONS will be held in sale pavilion at SOUTH OMAHA, NEBRASKA, TUESDAY, APRIL 22, 1913

PROBABLY the grandest collection of Scotch cows ever offered in a Western sale, or in fact in the entire country will be placed at your disposal at this time. Pedigrees of the very highest order, individuals to please those with the very highest ideals, and all of desirable ages and in splendid thrift.

A Group of Cows in Sale.

THE consignment of bulls is far the best that has ever left our herd. We offer the sort that we would be pleased to buy were we in the market for herd headers. But few bulls for sale have been bred from as great sires and dams as these we offer. They are well grown, of excellent conformation, and of the best breeding possible to obtain. Many are outstanding show propositions.

We want to tell you of this offering. We want you to have our catalog. It is ready for distribution and a postal card mentioning The Homestead will bring it to you. Kindly write us at once. Address

Col: H. S. Duncan and Col. T. C. Callahan, Aucts.

GEO. ALLEN & SONS, Lexington, Nebraska

Stallions and Bulls

THE Iowa State College is offering for sale one Clydesdale stallion coming two years old sired by Kuroki (12629) 13214, dam Maggie Refiner 13341 by Refiner (12301) 12116; 2d dam Princess Maggie 10880 bred by Colonel Holloway. Also several good, young Short-horn and Angus bulls. Address Division of Agriculture, Iowa State College, Ames, Iowa.

GALLOWAY CATTLE.

PURE-BRED GALLOWAYS

Bulls, Cows and Heifers for sale at farmers' prices.
JAMES P. MILLIKEN, MEDIA, ILLINOIS
Main line Santa Fe Railroad.

IF you want the best Galloway Cattle—Oxford Down Sheep see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address, C. S. Hechtner, Chariton, Iowa.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

When writing to advertisers please mention The Homestead.

POLAND CHINA SWINE.

W. H. COOPER, LIVE STOCK AUCTIONEER

WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser.

W. H. COOPER, HEDRICK, IOWA.

30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
P. S. & S. BARR, - Davenport, Iowa.

WAYSIDE POLAND CHINAS Big type. A choice lot of fall pigs, either sex. at $25 for choice. Also a granddaughter of A Wonder bred due April 20th. E. J. Augspurger, Pulaski, Ia.

FOR SALE Big-type Poland China sows and gilts sired and bred to prize winners
G. A. WIEBE - BEATRICE, NEBRASKA

When writing to advertisers please mention The Homestead.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address
R. B. BAIRD, Central City, Neb.

GOOD LUCK HERD

POLAND CHINAS

A FEW big-type September boars and gilts for sale. The large, useful kind, with quality, bone 7 to 8 inch. Sired by Giant Wonder 184793. Will ship on approval express prepaid. Satisfaction guaranteed. Write us for description and prices. Address
L. S. FISHER & SON, R. 1, Edgewood, Iowa.

CHOICE POLAND CHINA BOARS AND GILTS.

OF August and September farrow are for sale now. They are sired by Wonder Price, by A Wonder, and his dam is the great Lady Nelson. Also some by Pawnee Tall by Pawnee Chief. These are real big-type stuff, big boned and they are the making of big hogs. I am pricing them to sell. Address at once
HERMAN SCHMALE, De Witt, Nebraska.

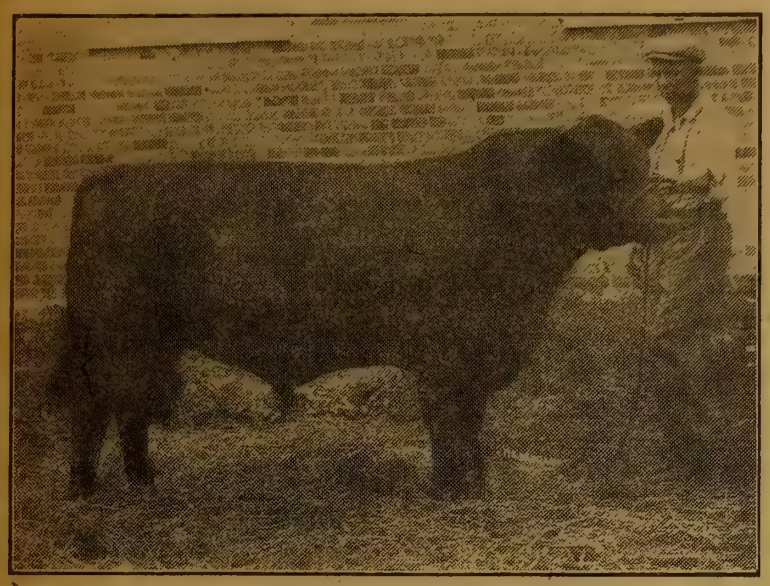
ABERDEEN ANGUS CATTLE.

ESCHER'S ANNUAL SALE OFFERING

ABERDEEN ANGUS CATTLE

AT LONGBRANCH FARM, BOTNA, IOWA, APRIL 16, '13

50 COWS AND HEIFERS, 10 BULLS.



Prince Felzer, an Iowa State Fair winner and one of the greatest young bulls in our herd.

INCLUDED in the sale are 20 royally-bred Ericas, 20 Blackbirds, 10 K-Prides, balance Prides, Queen Mothers and Heatherblooms; 35 of the cows will have calves at foot and 25 of these cows will average 1,500 pounds; 10 imported cows. The best we have ever owned go in, and 5 of these will have calves at foot. We are including 4 Trojan Erica bulls, each one a double-bred Trojan Erica, and a herd header as well. Also a number of other choice young bulls. No better offering of Angus cattle has ever before been listed for a sale in this country or in Europe. Catalog can be had by asking for it. Address

Cols. Silas Igo and Kraschel, Auctioneers. **CHAS. ESCHER & SON, Botna, Iowa.**

Please mention The Iowa Homestead when writing for catalog.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elsever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty 50 coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

ANGUS BULLS

I have 9 Angus bulls, with quality and breeding, that I am offering at farmers' prices. One of them is a toppy blackbird calved last May. They were calved from Oct. 1911, to May, 1912. Call on or write
A. G. MESSER, GRUNDY CENTER, IA.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

When writing to advertisers please mention The Homestead.

BULLS ALL SOLD

12 PURE-BRED cows, but not registered; price $75.00. To calve soon. Some registered heifers, year old now. Price $100.
J. A. AMSBERRY & SON, Mason City, Neb.

MULE-FOOTED SWINE.

MULE-FOOTED HOGS

THE coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, $30 pair. Circular free. Address
DR. W. J. CONNER, LABETTE, KANSAS.

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

HEREFORD CATTLE.

HEREFORD BULLS AND FEMALES

FOR SALE—15 bulls from 12 to 18 months of age. Also some younger bull calves, yearling and two-year-old heifers. Cows with calves at foot or due to calve soon. At prices that will move them. Disturber, Anxiety, Perfection, Earl of Shadeland, Hesiod 2d and other noted bulls appear in the pedigrees. Write for prices. Mention Homestead

W. T. WRIGHT, Mt. Pleasant, Ia.

Hereford Bulls for Ranchmen or Farmers

BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah, Newton, Iowa.

HEREFORD BULLS, FEMALES

I HAVE 6 young bulls by Young Albany and Dale's Eclipse, one an extra good one. I will sell a few cows and heifers all safe in calf to young Albany, a bull I recently sold for $500. Write for prices and description, mentioning The Homestead.
E. W. KREISCHER, Mt. Vernon, Iowa.

100 HEAD HEREFORD BULLS FOR SALE 100

WE are offering 100 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Will also sell car load of heifers and cows. Come and see us right away.
A. SPOONER & SON, - - MONDAMIN, IOWA.

HAMPSHIRE SWINE.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 375 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today.
R. L. BOLLMAN, COAL VALLEY, ILLINOIS

SUNNY SLOPE HAMPSHIRE SWINE

JOE 7743, reserve grand champion boar 1912 International Stock Show, and CORRECTOR 10491, junior champion same show, at head of herd. 200 choice fall pigs for sale from our prize winning sows and boars. Prices right. Mention The Homestead when writing. C. A. BROOK, WASHINGTON, IOWA.

WAYSIDE HERD OF HAMPSHIRE SWINE

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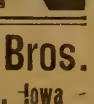

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They are "model drafters." They are 2 to 5 years old, weigh 1,700 to 2,500 pounds, 80 per cent blacks, 50 per cent ton horses. All "registered," approved and inspected by governments of France and U. S. and certificates "stamped O. K." Iams gives a "certificate of soundness and health" with each horse—signed by a "Nebraska State Deputy U. S." Many Paris "prize winners" and "gold medal horses." Big, drafty "top-notchers," with big bone, quality, style, finish and action to burn. They are "eye openers"—larger and better horses than seen elsewhere. Big "business propositions" that make "the wheels work fast" under a "buyer's hat." "Georgie, dear," Iams made a "big killing" by buying his horses in Europe. "War scare," "bad crops," "close money" and "Iams' cash" caused the "prize winners" and "tops" to be thrown on the market for a "good selling."—Iams "cut the melon" and bought the "rippers" at "knockout prices." Iams will give his customers the benefit of his "good buy." "Ikey boy," come on down town"—see Iams—"Everybody is Doing It."

Get into Iams' "get rich wagon" and save $1,000 on a "top stallion"

(and you wear the diamonds). Iams is a "big fly in the jelly" in the horse world. "He keeps the gang guessing." Iams sells "imported horses only"—(they win 90 per cent of prizes at big horse shows). No "American-bred full bloods"—no "auction stuff" or "peddlers' horses"—only "choice drafters" of big size, bone, quality and finish. Iams has the "crack stallions and mares" you "read about." Buy horses of Iams and you won't "get stung" in horse or price. "Dolly D.," waltz me around once again, "Ikey," land me at Iams' box office and importing barns. Full to "the roof" with "black boys" (and all must be sold). Reduced prices. All the world knows Iams and his "peaches and cream" horses. 1913 promises to be a bumper year to Iams and his customers. He saved $300,000 to stallion buyers in 1912. Watch "Iams' smoke." Iams' 31 years of successful business make him a safe man to do business with. Iams sells horses "on honor." A boy or a lady can buy as cheap as a man. Iams' 1913 horse

Catalog is an "eye opener." It has a "laugh" and a $1,000

bargain in every line. A "bunch of gold" to stallion and mare buyers. It is full of the real "peaches and cream" stallions. It is the finest, most elaborate and original up-to-date horse book in the world. Iams, the "square deal" horseman, makes every statement in ad or catalog good—or you get the $500 he hangs up. Iams guarantees to sell you a better

Imported Stallion at $1,000 and $1,400

(few higher) than are sold to stock companies for $4,000. Imported mares, $700 and $1,000. Iams gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish $1,500 insurance. Iams buys and sells every stallion himself. Saves buyers $1,000 in middlemen's profits. He buys stallions by "train load." He speaks languages—(saving 20 per cent). He is not in the "stallion trust." No partners to share profits. He "pays cash" for his horses—and sells "topnotchers" by "hot advertising" and having "the goods." "Big Ikey," leave your "happy" home and buy a "top" stallion or pair of imported mares (of Iams) that bring colts that sell at $500 each. "Papa," don't let those "auction men" "hand you a lemon" in one of those "so-called" "American full bloods" of questionable breeding. Buy an imported horse of Iams, the "reliable horseman." (Then we will "all wear diamonds.") Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog. Iams won't let you go without a peaches and cream stallion or mare. "He sells the horses." Iams' guarantees are backed by "half million dollars." References—1st Nat'l and Omaha Nat'l Banks, Omaha; Packers Nat'l Bank, So. Omaha; Citizens State, 1st State and St. Paul State Banks, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL, NEBRASKA

OUR FIFTH ANNUAL

30-Day Sale Starts March 1st

THE offering consists of a choice selection of imported and American-bred Percheron and Shire stallions and mares. We were never better equipped to furnish the most discriminating buyers with first-class stallions than we are at present. Our horses were imported last October. Are perfectly acclimated, are two and three years old, all dark colors, weighing from 1,800 to 2,200 pounds. The mares are of the large brood type of serviceable age and are in foal. We give our customers fresh, clean, sound horses each year. They are not stale from overfitting. They are the right type with plenty of size and bone. We sell our horses at prices any farmer can pay. We have a large assortment to select from. Every animal guaranteed sound and a satisfactory breeder. If you want the best at prices that defy competition do not fail to visit us before buying elsewhere. We have a few good aged horses that have been replaced with two year olds, sound and good breeders, that will be sold very cheap. Terms to suit any one. Come and see us or write today for full particulars. Homewood is conveniently located 23 miles south of Chicago on Big Four and I. C. R. R., with trains to and from the city every hour. Barns near station. Bell phone, Homewood 58 W. Address

S. METZ & SONS, Homewood Stock Farm, Homewood, Illinois.

J. LEITCH & SONS

Announce the arrival of a new importation of

CLYDESDALES

This importation added to what we had on hand gives us the largest collection in the U. S. and more big, weighty ton stallions than all our competitors combined.

COME WHERE YOU CAN GET A GOOD SELECTION

We have all ages. Write for catalog, prices and terms.

Merry King 13229
Imp. & owned by John Leitch, Prop. Avondale Stud Farm La Fayette, Illinois.

J. LEITCH & SONS, LA FAYETTE, ILLINOIS

Located midway between Rock Island and Peoria, Ill., on C. R. I. & P. Ry.

LARGEST IMPORTERS OF CLYDESDALES IN THE UNITED STATES.

---

40 MAMMOTH BLACK JACKS 40

A FEW JENNETS

STUD jacks and great mule jacks are our specialty. Jacks that stand from 15 to 16 hands high and range from 2 to 5 years old. Blacks with mealy points. Come and see them. Address, mentioning The Homestead.

DEIERLING & OTTO, Queen City, Mo.

PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

J. C. HUCKSTEP, BOLIA, PIKE COUNTY, MISSOURI

VAN STEENBERGE'S DRAFTERS

40 HEAD Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.

A. M. VAN STEENBERGE,
OGDEN, IOWA

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

German Coachers

SEVEN or eight head of the very best this breed can show stallions, mares and colts. An ideal general-purpose breed and we offer this stock at reasonable prices. Write us about them. Address

HELD BROS., Hinton, Iowa.

W. J. BUTLER

OTTAWA, ILL., Breeder of

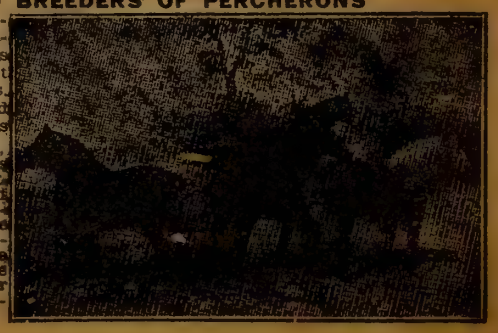
Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

MAASDAM & WHEELER, Fairfield, Iowa

IMPORTERS AND BREEDERS OF PERCHERONS

Our new importation of 81 Percherons arrived in Fairfield September 18th. Forty weanlings will soon arrive, making about 125 imported stallions and mares. These with our 75 American-bred stallions and mares of all ages form a magnificent array of big, heavy-boned, sound Percherons from which buyers may select. We have by far the best lot of Percherons on hand at the present time that we have had since engaging in the importing business. We know we can please you in a horse and our prices are very reasonable. Visit us or write us for what you want, mentioning the Homestead.



For Sale Cheap if taken soon, a Mo. bred jack, a good breeder, prompt and a sure foal getter. Address L. B. Cummings, Clearfield, Ia.

PERCHERONS Imported and home-bred stallions and mares from $200 to $500 each. H. REDENIUS, Rushmore, Minn.

COLLEGE OF AGRICULTURE
Library
Bulletin 58

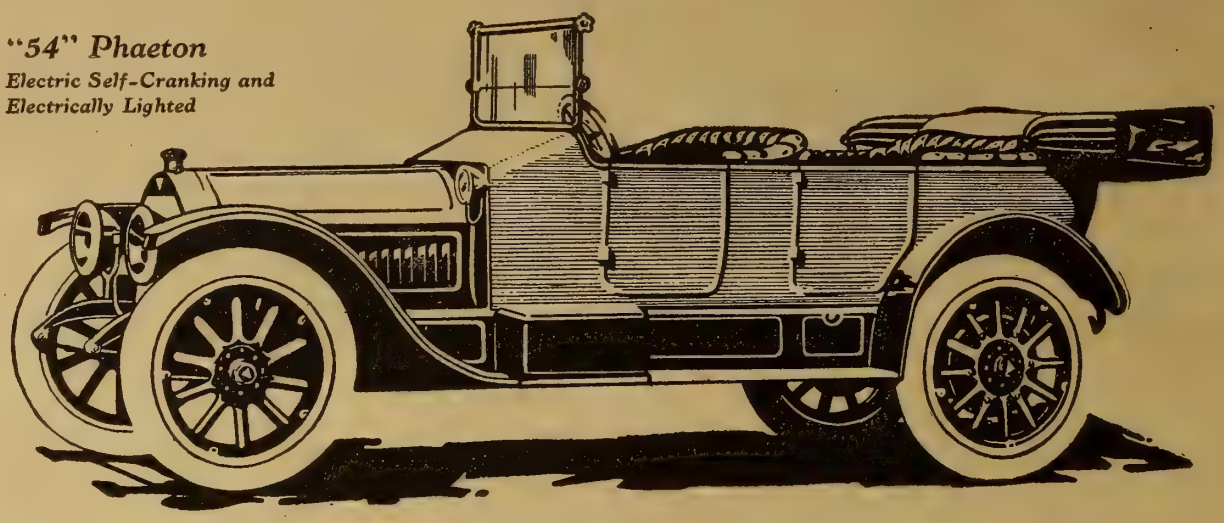
The Iowa Homestead

VOL. LVIII. NO. 16 DES MOINES, IOWA, APRIL 17, 1913. WHOLE NO. 2897

A GENTLE ADMONITION

The World's Largest Builders of Six-Cylinder Automobiles

"54" Phaeton
Electric Self-Cranking and Electrically Lighted



A Definition of Automobile Service

This is a much talked about subject.

Every dealer, every manufacturer, talks about it. Some are specific, some only suggest what it might be. This is our definition:

See if you do not agree that it is the most important in the consideration of your motor car purchase.

No man, no matter how experienced, can know what service any car will render. No two drivers operate their car alike. No two cars are called upon to render the same kind of service.

Machinery will wear out. It must be attended to, and some one expert, willing and broad in mind, must be there to see that the car gives the service you expect it to give.

A car must be built with a sufficient allowance to take care of the average demand made upon it.

No dealer can give service who is not successful. Motor car satisfaction is largely a matter of dealer satisfaction. To be able to give such service the dealer must make a profit. He cannot sell his cars at a discount. He cannot make unreasonable allowances for old automobiles in order to make a sale and have a profit left sufficient to give the service that should go with every motor car.

He must see the broader possibilities of conducting his business upon a service basis than is often found, especially among dealers whose only interest is in making the sale.

Buy a Six if Paying More Than $2,000

The "54" HUDSON is all that any automobile at any price can be in performance, luxury, comfort and value. Backed by our own service you will find in it as near an approach to ideal motor satisfaction as is known.

The "54" HUDSON is the answer to a question that has long concerned all automobile builders. "What will Howard E. Coffin do when he builds a Six?"

When he built this car he had as his associates experts from 97 leading American and European factories—48 all told.

Thus all guess work was eliminated—all experiment made unnecessary. With so many viewpoints and so much experience, errors that others had made were eliminated—advancements that others found impossible were easily accomplished.

The "54" HUDSON has electric lights. It is electrically self-cranked. The famous Delco system, patented, is used. Every luxury is included, speedometer, clock, top, curtains, rain-vision windshield, demountable rims, twelve-inch upholstery, etc. Equipped with a five-passenger Phaeton body at $2450.

At $1875 you can obtain the HUDSON "37"—designed by the same engineers that built the "54"—and pointed to as the "Four-cylinder masterpiece."

Send for catalog, or go to the Hudson dealer, and he will prove their value in a hundred different ways.

See the Triangle on the Radiator

Hudson Motor Car Co., 7656 Jefferson Ave., Detroit, Michigan

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 17, 1913.

WHAT ONE ACRE WILL DO

How J. H. Cash, an Arkansas Farmer, Made One Acre, by Diversified Farming, Produce More Than Twenty Acres Devoted Exclusively to One Crop.

GIVEN the factors of brain mixed with brawn, scientific cultivation and proper climatic conditions, what can be accomplished with the ordinary acre? Most of the prize-winning acres, the yields of which are given widespread publicity and held up as inspirations for all emulators, have been specially picked for the purpose, all too often consisting not of one regular acre, but of a long stretch of ground, often along a hillside or where the fertility has been most conserved by either natural or artificial means, sometimes even in isolated spots or patches the total area of which constitutes an acre. That such a prize-winning acre should not be compared with the ordinary acre belonging to the ordinary farm is generally conceded, so that the attainments of such specially selected and specially prepared tracts have little or nothing to do with the general proposition of the possibilities of the ordinary acre.

Mr. J. H. Cash, a prosperous and progressive farmer living near Camden, Arkansas, has shown the possibilities of an acre of ordinary southern land in a most striking manner, during the past year, reaping larger returns from his single acre than did a neighbor farmer on twenty acres lying just across the road. By pursuing a policy of diversified farming, Mr. Cash made his acre produce $127 more in a single year than did his neighbor confining his twenty acres to the single crop of cotton. Mr. Cash tells the story of his accomplishment in the following manner:

"I had taken good care of this land, had rotated my crops and put a lot of stable manure on the ground. It had been under a cover crop through the winter, furnishing fine pasturage for the calves, and to my mind it was good enough to raise any kind of crop that I wanted to plant.

"It was a pretty good job to undertake to produce as much crop wealth on one acre as another man, just as able and just as well equipped would on twenty acres, and that twenty acres not a hundred steps away. But I resolved to do my best. So I started in early, prepared my soil just as well as I knew how, and put the acre in onions. While my neighbor was still cultivating his cotton, I gathered from this acre, 259 bushels of onions and planted the same land to corn and peanuts. Forty bushels of corn isn't a big yield, but with the forty bushels of corn I gathered fifty bushels of peanuts, four tons of peanut hay and 400 bundles of corn fodder, or, as they call it in the North, stover. After the peanuts were gathered we planted a part of the land to turnips and a part to wheat and the wheat made winter pasture for my two colts and a cow. After everything was sold I counted up the proceeds from this plot, and, not counting the pasturage, the total revenue from this single acre, cultivated under an ordinary plan of diversification, was $537.

"What did my neighbor do on his twenty acres of cotton? That was what I was anxious to find out. The season was good, he had worked his crop industriously, and it looked as well as any field of cotton I have ever seen in Ouachita county, and I suppose Ouachita can raise as good cotton as any other county in Arkansas. My neighbor was favored, too, by a continuation of the good prices which have been paid for cotton during the past several years. After the cotton was all picked, ginned and sold, I went to my neighbor to compare notes.

"'What is the best you can show for your twenty acres of cotton?' I asked him. He was not boastful, but there seemed to be a feeling of satisfaction in his manner when he told me that he sold his cotton for $410. That is a whole lot of money to a farmer, when it is laid out in ready cash, and that is why so many of our southern farmers continue to plant cotton when they could much easier raise some other crop, and that with greater profit.

"'Well, my acre brought me just $127

[Continued on page 36.]

THE ONE-ACRE PATCH WHICH PRODUCED $537 IN A YEAR—ONIONS, CORN AND PEANUTS GROWING TOGETHER TO PRODUCE $127 MORE REVENUE THAN TWENTY ADJOINING ACRES PLANTED TO ONLY ONE CROP.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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PUBLISHED EVERY THURSDAY

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

LOOKING AFTER THE FARMER.

When I was a boy back in Ohio and a young man in Missouri the farmer was considered legitimate prey for any person who wanted to take advantage of him. He was singled out as the victim for all sorts of confidence games. The amount of brains utilized in some of the swindling schemes was remarkable. Devoted to a worthy cause they would have made their owners famous; as it was they simply made them infamous.

Times have changed since those days. The farmer is a reader of the daily newspapers, the farm papers, the magazines. He keeps abreast of the times. A man can no longer take advantage of his ignorance. He knows the ways and the wiles of the world. He reads of attempted swindles in other parts of the country and smiles a superior sort of smile, for he knows much better now than he did in the old days. He is no longer in the market for gold bricks. The cartoonists on the city papers and the humorous journals no longer picture him coming to town with his trousers stuffed inside his boot-tops, with whiskers extending to his waist or tucked into his belt. Such pictures were libels enough when they were extant, two or three decades ago; today the farmer is as well groomed, as well dressed, as well read and as well educated as the city man. I have spent whole days rambling over the grounds at some of our big grain-belt state fairs and have been unable to tell the farmer from the city man, excepting that the farmer usually rides in an automobile and the city man usually rides in a street car. With increasing prosperity has come increasing ability to take care of himself against all comers, swindlers and confidence men included.

Along with the increasing ability of the farmer to look after his own interests there has come an awakened spirit of paternalism on the part of our government. States have wakened up to the fact that they must protect their people from the unscrupulous. Not long ago Kansas passed a law guarding its citizens from the man who seeks to sell unsound stocks, calling it a "blue sky" law, because about all the sellers had was hot air and blue sky. Iowa and other grain-belt states are proposing to adopt similar laws. Then Uncle Sam stepped into the breach and fulfilled a long-delayed duty by passing a rigorous pure-food law, so that it is no longer possible to take timothy seed, coal tar dyes and similar ingredients, put the resulting concoction in a handsomely labeled bottle and sell it for strawberry preserves. Finding that this law worked well Uncle Sam went a step farther and provided for pure drugs, making it compulsory to state whether a preparation contains alcohol or morphine or any other deadly drug. Now he is proposing to put a stop to patent medicine manufacturers making claims for their drugs which cannot be substantiated. And so all along the line the government has been taking care of the people who cannot take care of themselves.

The more I think over the changes of the past forty years the more wonderful it all seems. Here, for instance, is the great state of Kansas passing a law against "adulterated shoes." Whoever thought of such a thing ten years ago? But a law adopted at Topeka this winter makes it unlawful, under severe penalty, to manufacture or sell any boot or shoe that uses any substitute for leather whatever. The substitutes have been masquerading for a good many years under a lot of high-sounding names: leatheroid, leatherboard, fiberboard and so on, but no matter how fine the name the imitation wore out just as quick and many a hard-earned dollar has been wasted on "adulterated shoes." And right on top of reading about this Kansas law I find a little item in one of the daily papers stating that Senator Cummins, of Iowa, proposes to introduce an amendment to the tariff law providing for the labeling of woolen goods and textiles so that there can be no deception as to what they are made of. If his plan goes through it will no longer be possible for the merchant to sell the farmer a suit of "all wool" that will fall to pieces the first time it is rained on or wear out in a week or two, with no more wool in it than there is in a cultivator. Things are getting better when the government, both of state and nation, look after the people so carefully.

Sometimes I get just a little bit discouraged when I notice the trend of the times. There is an awful lot of trouble and sorrow and wickedness in the world. But every time, before I can get too discouraged, my attention is directed into brighter channels by some such thought as this that I have tried to express here. It is a pretty good old world, after all. The people are better able to take care of themselves, the farmer probably best of all. Those who have not yet learned how are looked after as never before by a government which doesn't consider its whole duty done when it collects the farmer's taxes or sends a commission banqueting around from one city to another on the theory that it is doing something to make country life a little more worth while.

JAMES M. PIERCE,
Publisher The Iowa Homestead.

A GOOD RECORD IN ALFALFA GROWING.

The campaign recently undertaken by the International Harvester Company to enlarge the area of alfalfa grown in the corn belt is a commendable one. If it should result in even starting one alfalfa grower in each township this in itself will in the end contribute very greatly to the wealth of those regions affected.

The Harvester Company in compiling the experience of those who have been successful in growing alfalfa calls attention to the case of Charles E. Yanney, of McLean county, Illinois. He got a good stand on six acres by breaking the ground the last of July, disking it three times, harrowing and cross harrowing two or three times, dragging twice, sowing twenty pounds per acre of seed broadcast, harrowing it in and rolling the ground. This was in 1906. The alfalfa grew about four inches high that fall and was not cut. In 1907, it yielded about two tons per acre and in 1908 150 pigs were pastured on it

Three cuttings of hay returned 2½ tons per acre, but in addition 150 pigs were pastured on this alfalfa from the time of the first cutting until December. The pigs were bought when they weighed forty-five, fifty and sixty pounds, and when they were weighed in the middle of December they averaged 125 pounds. Counting a gain of seventy-five pounds per head and allowing $100 for about 200 bushels of corn fed to the hogs, and figuring the pork at five cents per pound, these hogs returned $462 the hay was worth $195, total $657 from six acres or $109 per acre. Contrary to the results in many other cases this pasturing did not hurt the alfalfa and was repeated without harm next year.

In 1909, this piece of alfalfa yielded three and a half tons per acre in three cuttings and pastured eighty-three hogs from the time the alfalfa was four inches high in the spring until August 14th, when sixty-six head were sold, and from then till frost it pastured the remaining seventeen hogs and twenty-five pigs bought at that time. It is estimated that the eighty-three hogs which weighed seventy-five or eighty pounds in the spring made a gain of seventy-five pounds per head. The ones sold in August averaged 182 pounds and those kept till later 225. Counting only eighty hogs and nothing for pigs, they returned, after paying for the 250 bushels of corn fed, $420 to the credit of the alfalfa alone; the hay was worth $273 total $693 or $115.50 per acre.

This alfalfa was not injured by this extra hard treatment, but some parts of it were frozen out last winter, and this spring the field was disked and cross disked and the thin spots reseeded, securing a fair stand.

HEALTH OF THE CHILDREN.

Medical inspection in rural schools, similar to that which is so conclusively proving its efficiency and worth in city schools, is being urged by prominent educators throughout the grain belt.

A well-known Minnesota physician, who has been making a personal canvass of the rural schools of that state, finds some astonishing and alarming health conditions in the rural schools. Forty per cent of the children, he asserts, suffer from "almost constant" toothache, while 19 to 23 per cent have frequent headaches. From 12 to 14 per cent of the country school children suffer from earache, while 4 per cent have discharging ears. "Adenoids, earache, discharging ears, deafness, this is the order we find over and over again," reports this investigator, adding, "4 or 5 per cent of the children simply do not hear what is going on and are therefore put down as stupid when they are not."

This Minnesota investigator found great carelessness prevailing in country homes on some of the most simple things of household sanitation and personal cleanliness. For instance, he discovered that while nearly all of the children have tooth brushes but few use them regularly. He also reports that country people, as a rule, are careless in regard to the proper ventilation, frequently excluding all fresh air from their houses by keeping the windows closed tightly. In one school, visited by him, he found an old-fashioned unjacketed stove sending the thermometer up to ninety degrees. In this stifling atmosphere several dozen children were confined without any ventilation.

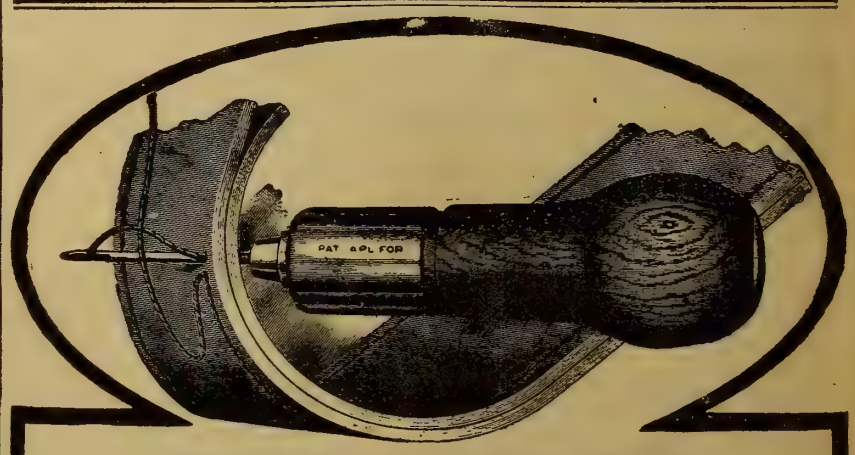
The investigation, if the results are heeded, can hardly fail to do good. That there is need of some such awakening is not to be denied. At the same time the prospect for the future is encouraging, for, thanks to a campaign of publicity and to the devotion of a few enthusiasts, people not only of the country, but of the cities, as well, are coming to realize that time and money are well spent in checking and preventing diseases before they become too far advanced. Town schools are visited regularly by nurses, while on the outbreak of an epidemic it is customary for physicians to visit the schools and administer antitoxin and other preventives, free of charge. Some such crusade must be carried on in the rural schools if the all-important health of the child is to be conserved and protected as it should be.

GASOLINE TRACTORS FOR ROAD WORK.

Some time ago the road commissioners in Pawnee county, Kansas, have recently put into service a twenty-horsepower gasoline tractor to take the place of horses in handling the grader, and the few weeks that the tractor has been in service has convinced the commissioners of its superiority over the old system. It is expected that eventually enough tractors will be purchased by the commission to care for the 186 miles of roads in Pawnee county.

Another instance is called to mind where 100 good road boosters living in Harrison county, Iowa, decided that gasoline tractors constituted the best form of power with which to grade roads. It does away entirely with the "see saw" principle which is so often carried out when horses are used on heavy graders. In addition it cuts down the cost of operating a grading outfit and it is just as serviceable when the weather is blistering hot as when it is cool.

Men may disagree about the type of road that is best adapted to a given community whether it should be sim-



MEND YOUR HARNESS WITH

The SPEEDY STITCHER

I WANT every reader of my paper to have one of my Speedy Stitchers **Absolutely Free.**

The Speedy Stitcher is the latest invention and the most effective of anything in the form of an Automatic Sewing Awl ever offered. Its simplicity makes it a thoroughly practical tool for any and all kinds of repair work, even in the hands of the most unskilled. With this Awl you can mend harness, shoes, tents, awnings, pulley belts, carpets, saddles, suit cases, or any heavy material.

The Speedy Stitcher is provided with a set of diamond pointed grooved needles including a special needle for tapping shoes. It also contains a large bobbin from which the thread feeds, all of which are enclosed inside the handle out of the way. This Awl has a tension which enables you to tighten your stitch. These valuable features you will not find in any $1.00 Awl.

It's FREE to Those Who Are Prompt.

I will give one of these excellent Speedy Stitchers absolutely free to any one who will send me $1.00 for one year's subscription to The Homestead during the month of April. This offer will positively be withdrawn on May 1, 1913. Kindly use the coupon below and be sure to send your order in today before you forget it.

JAMES M. PIERCE - DES MOINES, IOWA.

USE THIS COUPON

Date 1913

James M. Pierce, Pub. Homestead, Des Moines, Iowa.
Dear Sir:—Enclosed find $1 for one year's subscription to The Homestead. For my promptness send me postpaid, free of charge your Speedy Stitcher.

My name is.....

Postoffice.....

Rural Route..... State.....

ply earth or concrete, macadam or brick, but there can be no disagreement over the need that exists of having all roads properly graded and therefore rightly drained. To this end the gasoline tractor will possibly be the most effective educational agency that can be employed to convince men that it is not enough to have "good" roads, but that we must continue in welldoing until we have the "best" that exists.

VALUE OF THE MOTORCYCLE

An incident showing the practical value of the motorcycle to the farmer is told by a subscriber, as follows:

A large farmer in the middle West had just commenced his threshing when a part of the thresher broke, crippling the machine. He was over twenty miles from the nearest point where supplies could be obtained, and the road was none too good. To send a man with a horse for a duplicate of the broken part would have required a full day, and any farmer knows the value of time under these circumstances. The son of the farmer owned a motorcycle, and immediately started for town to secure a part to repair the damage; and inside of two hours he had returned, the repair had been made, and the thresher was at work again. This one service justified the purchase of the machine and it is this kind of work that the motorcycle can perform probably better than any other means of conveyance, not only for the farmer and the resident of the suburban districts, but for the dweller in the town as well.

There are few road conditions that will prevent a motorcycle being used, and on the average road it can make fully as good time as the most expensive automobile. In price its first cost is so small as to be of trifling consideration in comparison with the work it can do, and the expense of maintaining it is hardly worth consideration. Even where an automobile is owned a motorcycle is also often kept because of its superior convenience and handiness in running errands, not to speak of its rapidity and economy of operation.

Among the factors which are bringing town and country closer together, and making it possible for the farmer to market his crops to the best advantage, the motorcycle takes rank with the automobile and the interurban. One of the largest motorcycle manufactories in the country reports that the bulk of its output this year is going to farming sections, farmers having discovered that the motorcycle furnishes quick and pleasant transportation, while at the same time being of sufficient practical value to warrant the outlay. A few years ago the motorcycle was looked upon largely as the amusement merely of the city man, but today it has a well-recognized place among the inventions which are daily proving their worth on hundreds of corn-belt farms.

THE INFLUENCE OF THRESHERMEN.

We seldom stop to consider the enormous sum of money that is invested in the threshing machinery of a single state nor do we reckon that the influence that can be exerted in behalf of improved agriculture by those who own and operate these outfits. There are 7,500 threshing outfits in the state of Iowa alone, each one of these requiring the services of two skilled and one unskilled but competent man. As a number of these rigs are owned jointly by several parties it is a fair computation to say that there are 25,000 men in Iowa who devote part of the year to this kind of work. No similar body of men could possibly be more interested in grain and seed crops than those whose welfare depends upon sensible rotation in order that the yields may be kept up and the fertility conserved.

The thresherman's influence is always directed in favor of good roads—not only good roads because of his own need, but because of the need of the whole community. He is a walking advocate of better bridges and being organized the threshermen have in the past and will in the future be forceful aids in improving roads and bridges.

There is another important duty which threshermen may perform by lending their aid to the practice of stacking grain. Grain that is sweated out in the stack is thereby improved in quality as compared with shock curing and as variation in value is due to quality the right and proper influence of threshermen can greatly increase the wealth that comes from cereals.

The thresherman's calling is one that has been dignified by the character of those who have engaged in it and to the individuals and to the state organization composed of these individuals The Homestead tenders its aid in the advancement of any cause advanced in the interest of better agriculture.

SILAGE IN STEER FEEDING.

Important information on the subject of feeding silage to steers is given in a bulletin issued by the Pennsylvania State College Experiment Station. The experiment was carried on with two lots of twelve steers each. The animals were similar in age and character, but were not of really good quality. They weighed at the beginning of the test an average of 882 pounds, and the average cost per head was $44.75. The experiment covered a period of 126 days, beginning December 1st and closing April 4th.

The feeds employed were ear corn, cottonseed meal and corn silage, the only difference being in the proportion given.

Lot 1, during the entire period consumed 20,892 pounds of ear corn, 3,167 pounds of cottonseed meal, and 34,087 pounds of corn silage, the whole costing $319.25. This lot, at time of sale on the close of the experiment, averaged 1,060 pounds, having made a gain of 178 pounds. They sold at Pittsburg at $7.20 per 100 pounds, giving a net profit of $1.51 per head. It is estimated that the price realized per bushel for corn, after paying for other feeds, was 76 cents, and that the price received per ton for silage, after paying for other feeds, was $4.65.

Lot 2, during the same period of time and under the same conditions, consumed 11,377 pounds of ear corn, 3,167 pounds cottonseed meal, and 50,397 pounds corn silage. The cost of this feed is given at $252.64. At sale time Lot 2 brought $7 per hundred pounds. They weighed 1,052 pounds, having gained 170 pounds, and netted a profit of $4.61 per head. On these the statement is made that the price received per bushel for corn fed was $1.04, and the price received per ton for the silage used was $5.73.

The summary of the experiment shows that the feeding of corn silage as the only roughage resulted in satisfactory gains in each lot and that while there was a profit in feeding ear corn throughout the entire feeding period, a greater profit was secured when light plain feeders averaging 880 pounds at the beginning of the feeding period were carried for two months on a ration consisting entirely of corn silage, followed with a grain ration toward the end of the feeding period.

In estimating profits, full market value has been allowed for all feeds so as to cover the labor of feeding. No credit is given for manure or for pork produced from the droppings of the cattle. It is generally estimated that hogs following steers will gain two pounds for each bushel of ear corn fed to cattle. If this additional increase were allowed, the profit in Lot 1 would be increased $3.89, and in Lot 2 would be increased $.23 over and above the figures above given per head. A record of bedding used and manure produced in Lot 1 was kept, which shows that 25,675 pounds of sawdust and 2,762 pounds of straw were used for bedding.

The manure weighed out amounted to 101,560 pounds. Allowing $1 per ton for sawdust (the cost delivered at barn), $8 per ton for straw and $1.50 per ton for manure, there was an additional profit of $2.60 each to that made from direct feeding of steers and production of pork from droppings in Lot 1 during the 126 days of feeding. This shows that in cattle feeding, the profits secured from the by-products of feed lots may amount to more than the direct financial gain on the cattle. The test shows conclusively that silage can be used as roughage even in the coldest of winters when fed in an open shed; that there was a considerable saving of corn by exclusive use of silage during the first part of the feeding period and that the value of feeds utilized in the production of beef during the winter was much greater than their market value.

Rural schools are held responsible for national illiteracy by the federal bureau of education.

CONDEMN LONG HOURS ON THE FARM.

To obtain sufficient help to operate farms so that production is kept up to the highest point is the most difficult problem which confronts the corn-belt farmer today. The situation is so serious in some localities that farmers have become soured and many of them are free to denounce as worthless the character of the available farm help. With them "former days are better than these" and no remedy is being sought so that each year the problem is growing more serious.

Every thinking man knows that the scarcity of farm help is due to a variety of causes, to one of which attention is called by a subscriber from Page county, Iowa, who says:

The reason why help is so scarce on farms today is not because wages are too low or that the work is too hard, but because the work days are too long. There are farmers who have system in their work and who are satisfied with a day's work of reasonable length. These, however, I believe, are in the great minority. The majority are keen on starting early in the morning, but with them a man does a day's work and then has to add to that two or three hours of choring. The man who quits work at six o'clock and plans to have even the choring done very soon after that has no trouble in getting help, but the system that requires working by lantern light in the spring and summer months is more than anything else driving men away from the farms. City work is more attractive simply because men know when their day's work is done and instead of criticising the character of farm labor it is amazing to me that farmers do not realize where the real difficulty lies and adjust themselves to the changed conditions. I consider that the wages being offered by farmers are good because $30 a month in the country is a much better proposition than $50 a month in the towns and cities. Wages have nothing to do with the scarcity of farm help, it being in my opinion wholly a matter of hours.

We believe that the problem is gradually solving itself because more and more men are coming to believe in the plan outlined by this subscriber. It is true that the character of farm work is such that it does not lend itself so well to uniform hours as labor in the city, but conditions have to be met fairly and squarely and in the bid for labor, conditions must be about equal on both sides if any balance is maintained in the supply as between the country and city. By the use of improved implements that are being used by farmers today there is not the same need for the long day that existed in the past and those who are meeting with the greatest degree of success in obtaining efficient help are more and more adopting the plan of even having their choring out of the way early in the evening.

WORKING THE BROOD MARE.

The average corn-belt farmer finds it necessary to work the brood mare before foaling as well as after. While it is true that a certain number of accidents are due to injury which the mare receives while at work, yet accidents will happen even in the pasture. As the result of a great deal of experience in the handling of brood mares on the harrow, on plows, on wagons and on drills, we have never had but one case of injury. On the other hand we have found that the colt from a worked mare is in nearly every instance stronger and more vigorous than the offspring of the pampered mare. It is only necessary to take special pains in turning on the headlands, particularly when the mare is hitched to tongued implements. Under no circumstances should the mare heavy in foal be put through soft ground when hitched because no condition is more apt to injure her than that of having her pull a heavy load when she is down half way to the knees in soft soil.

The brood mare that is worked right up to the time of foaling should be fed well. This means that something more than corn must be used. A mixture composed of two parts oats, two parts corn and one part bran will usually give excellent results. So much the better if some good clover hay can be used. With a ration of this character the mare will take much better care of her young colt than if she is fed corn and timothy hay.

As foaling time approaches the mare should have a box stall to herself and it should be cleaned out and freshly bedded every day. There is so much danger from joint ill, which always comes from contaminated stalls that no man is justified in taking the risk of having the colt arrive in filthy quarters. Where the bedding supply is exhausted one can well afford to go to the small expense of purchasing some to be used for this special purpose.

While it is true that a plumper and possibly a larger colt will result if the mare is not worked after foaling for a period of five or six months, yet that is an extravagance that the average man cannot indulge in. If she has a period of two or three weeks to rest so that the colt gets a good start there is no reason why the brood mare cannot be put in harness and made to do a reasonable day's work right along. For a few days, of course, the hours should not be long and it pays to unhitch possibly about the middle of the forenoon and the middle of the afternoon for a few days at least and allow the little fellow to have nourishment. After a week or two of this kind of treatment the colt will begin to acquire the habit of eating grain and he will do fairly well if he has milk at noon. Special pains should always be taken to see that the mare is not overheated just before bringing her to her colt. If the driver uses a little sense he can always see to it that she is allowed to cool off even on very warm days before unhitching. With the proper kind of care there is no reason why a colt cannot be brought through the spring, summer and fall months in fairly good condition of flesh even though his dam is at work most of the time. It cannot be done, however, without letting him have just about all the grain that he will consume.

THE EXPENSE OF KEEPING GOOD MALES.

The breeder who handles live stock on a small scale often finds the expense of caring for a male during the whole year considerable of a burden. This applies not only to the food consumed, but to the extra care that must be taken in handling this class of animals. The experience of a Missouri subscriber indicates one way out of the difficulty. In a recent communication he says:

Many farmers become discouraged in owning good sires for their herds, as it takes considerable feed and care to keep them in proper condition for breeding, and other farmers who have no sires impose upon those who have them, by bringing their females to these sires for service.

There are two especially discouraging features to this: First, the farmer who owns the sire, in a neighborly spirit, allows too many animals to be bred to him, which lowers his powers as a breeder, not only giving him an unsatisfactory grade of offsprings, but branding him as a sire of poor breeding qualities, when it is through no fault of his that his get is of no higher quality.

Second, it is a fact only those who have investigated or learned by bitter experience know that not one farmer in a half dozen ever pays anything for such breeding services. This is the most discouraging phase. We are not assuming that all farmers do this purposely. Some intend to pay the breeding fees, but forget about it; some keep putting it off until it seems like paying for a "dead horse," and they gradually let it pass from their mind; others simply regard it as a piece of neighborly kindness; while still others (sad to say) intentionally let the matter drop and consider the service as so much "clear gain."

The way around this difficulty is easy. A man may lose some supposed friends by it, but he will not lose any service fees. Simply make a charge for every female the sire serves, agreeing to return all money paid in case the breeding is not effective. Make this an ironclad rule, let it get the rounds of the neighborhood, and every man who wants to do the fair thing will walk up like a man and pay the fees in advance. That rule was laid down right here on this farm, and it so insulted the first old farm-dad that brought a female here for breeding that he indignantly took her back home without breeding her. That class of men is the very one this rule is aimed at, and the sooner we are entirely rid of them the better, for these discouraging features to the keeping of good sires is wielding a detrimental influence on the live stock industry in many localities, since it is practically a dead expense on the man who keeps the sires.

If this plan could be generally introduced it would be an aid in bringing about the use of better sires. Those who own small herds and could not afford to keep a male will very soon find the beneficial effect of a good sire even in the first generation and when they have this practical demonstration before their eyes they will not complain even though the service fee should be fairly proportionate to the merit of the male that is used and to the cost to his owner.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Don't forget that if the roots of evergreens are exposed to the air, even for a minute from the time they are taken up at the nursery until they are set on the farm, the young tree will be liable to die. No amount of soaking in water can bring back life to the roots of evergreens after they are once dried. When the trees come from the nursery they should be unpacked and placed in a tub and taken out one by one and set as quickly as possible.

Make sure that the spring drainage around the house and barn is not dumping the filth of the farm into the well from which your family secures the drinking water.

Keep up the old, faithful scythe, or buy a good new one, and be all ready for the war on weeds, the very day they begin to mar any part of the premises with their unsightly greenness.

If you expect the maximum quantity and superior quality of cream from the milk your herd produces, to secure it with the minimum amount of labor in tending to that milk, a more uniform test, greater and easier profits in every way, don't start through the summer dairy season without a good cream separator.

Beef calves will not stand for half rations of milk at the beginning of their career.

Don't get in a "toot" about planting anything and everything so early. Make sure that the soil is warm and conducive to rapid germination before risking high-priced seed in it. Often this plan not only saves time, labor and seed, but it actually insures an earlier stand of vigorous plants than this "early-bird" planting.

One had about as well abuse a cow as the cream separator.

Promise the boys and girls a pig, calf or colt for assisting in the care of this season's crop of young animals. You thus will be training them up in the useful art of animal husbandry, and, at the same time, be encouraging them, through the reward for their efforts, to remain on the farm (and make sure that you keep your promise).

It is doubtful if one should risk sowing alfalfa on land that has been badly infested with weeds heretofore, as the pests are apt to smother out the tender growth. In any case, it is best to sow the alfalfa immediately after the seed bed is prepared, so the stand will get an even start with the weed pests and have a chance of surviving.

Let the fresh air and sunlight sweeten the milk pails.

Plan right now not to let the poultry run in the yard and scratch up the flower beds of the wife and daughters. The fowls not only do this where they have free access to the lawn, but they muss things up in general about the house. With very little effort and at small expense, you can run a chick-proof fence around the yard, which will enable you to maintain a neat appearance about the house, and save you many aggravating experiences with the chickens.

Nature humpeth herself! Go thou and do likewise!

About this time of the year, we go over the fruit and vegetables in the cellar and storage pits, sorting out and discarding all that is badly decayed, and putting the other where conditions will be favorable to keeping it for future use. With apples, we make three assortments. One is worthless. Another must have the decayed portion cut out and what is good of it canned or cooked for table use. The rest, which is in fair condition for keeping, is carefully wiped clean and dry, wrapped in thin paper and stored away in barrels or boxes in some cool, dry place, a layer of thick paper being placed between each layer of fruit. These should be examined occasionally for a few weeks, and any that are beginning to rot thrown away, to avoid their coming in contact with and spoiling the other fruit.

If you have no place to keep rivets, screws, clout nails and other small articles you will need that spice cabinet that can be bought for a few cents. It will answer the purpose to perfection. Don't forget to buy or order one for your wife at the same time.

Plant at least one tree this spring, no matter whether it is an apple, plum, peach or even a cottonwood. The fun of seeing it grow will more than pay for the work.

The red cedar is a slow growing tree, but it is hardy and makes a fine-looking tree. It makes a good windbreak, but many authorities claim that it should not be planted near the orchard because it is liable to cause apple leaf rust.

Have the chicken roosting quarters equipped with smooth, 2x4 lumber for roosts, so the mites will not have any place in which to harbor.

Trying to bring better results in the shape of good roads with the money now on hand for road purposes is a move in the right direction. When this is done it will be easier to raise more money to carry on the good work. It is not the good roads but the fat offices the farmers do not like to pay for.

The small boy who turns his little rifle against the song birds should not be allowed to have one. He has the making of a criminal in him.

Another handy thing to have in the farm shop is a box to keep the auger bits in. It provides a place where the bits can be found when wanted and the habit of keeping them there should be formed. It will take longer to hunt up a bit somewhere about the shop or farm the next time it is to be used than to put it in its place after each job is finished.

Exercise is as important as feed to the brood sow before farrowing time, and one way to bring this about is to have the feeding place some distance from the sleeping quarters. Another way is to "accidentally" leave the gate open and allow them to take a walk into the fields that are fenced hog tight.

As far as the quail is concerned the "No Hunting" sign should include members of the family as well as outsiders, law or no law.

Bees will live and perhaps increase a little in a dry-land country, but would be of no use to their keepers unless pastures are provided for them. White sweet clover to the extent of half an acre to the colony would be almost a guarantee of success. There are things, such as white clover, alfalfa, buckwheat, alsike, clover, all kinds of fruit trees—any of the above that will grow would be good, but the sweet clover will grow and prosper in any soil or climate, wet or dry, cold or hot.

No-Rim-Cut Tires
10% Oversize

Not Built Like Old-Time Tires

Goodyear tires of today are not built as they once were, nor as others build tires now.

Goodyear success is due to ceaseless advancement. Every increase in sales came through increasing mileage.

And now, after fourteen years of betterments, scores of our experts spend all their time on research and experiment.

How They Work

These men wear out, on a metered machine, hundreds of Goodyear tires.

To get our tread as we make it today, 40 formulas were compared—by actual metered mileage.

To get a fabric which would stand all strains, 200 fabrics were tested out, and mileage results recorded.

These comparisons have gone on for years and years. And they still go on night and day. For we know that no tire can lead in sales unless it also leads in mileage.

What They've Done

This research department cost us about $100,000 per year. On this year's output that's about five cents per tire.

But note the result:

All the remarkable mileage you get from Goodyear tires is due to this ceaseless improvement.

No-Rim-Cut tires—the tires that end rim-cutting—were developed in this shop. With the old-type tires, 23 per cent met with rim-cut ruin.

And from this shop came the 10 per cent oversize, which adds one-fourth to the average tire mileage.

Men Not Misled

In these days of odometers, men know which tire serves best. And that tire alone can outsell all others.

Under this test Goodyear tires have outsold every other tire in existence.

And the sales have doubled over and over, as the tires became better known. Last year's sale by far exceeded our previous 12 years put together.

That's the result on actual use, on hundreds of thousands of cars. And you'll adopt them, like the rest, when you once try them out.

Average Profit $2.90 Per Tire

Here's another reason why you get so much in a Goodyear tire. Our average profit last year was but $2.90 per tire.

Goodyear tires cost all the way from $15.55 to $104.95, according to size and type. The most popular size—34x4—costs from $32.95 to $37.90, differing with type and treads. And our average profit on all these tires was exactly $2.90 per tire.

That's why you get at the Goodyear price tires with so much mileage. Tires that can't rim-cut—oversize tires. This is due to the fact that so much of the cost goes into things that count.

No other tire in all the world offers you equal value.

GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities More Service Stations Than Any Other Tire
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
Main Canadian Office, Toronto, Ont.—Canadian Factory, Bowmanville, Ont.

CURRENT EVENTS

BREAKING the precedent of more than a century's standing Pres. Woodrow Wilson delivered his tariff message to congress in person. Both houses met in joint session and listened with the closest attention to what the president had to say. Heretofore the president has been in the habit of sending his written message by messenger who all too often has read the message to empty seats, the few congressmen present paying but scant attention. President Wilson is proceeding on the theory that he is not only the leader of his party, but the president of the country regardless of party, and believes that it is up to him to show that the president is a "human being trying to co-operate with other human beings in a common service." The president's message was exceptionally brief, its delivery occupying but eight minutes, whereas most of his predecessors have relieved themselves of messages the reading of which has occupied an hour or more and the printing of which has required whole pages of newspapers. President Wilson has unusual clarity of expression, as, for instance, when he rescued himself, as he expressed it, "from that isolated island of jealous authority," which the presidency has come to be regarded. The following paragraph shows the manner in which the president discussed the democratic plans to remove existing protection: "We must abolish everything that bears even the semblance of privilege or of any kind of artificial advantage, and put our businss men and producers under the stimulation of a constant necessity to be efficient, economical, and enterpr'sing, masters of competitive supremacy, better workers and merchants than any in the world. Aside from the duties laid upon articles which we do not, and probably can not, produce, therefore, and the duties laid upon luxuries, and merely for the sake of the revenues they yield, the object of the tariff duties henceforth laid must be effective competition, the whetting of American wits by contest with the wits of the rest of the world." Later on in the special session the president proposes to take up other important matters, chief among them being the reform of our banking and currency laws. For the present, however, he confined his attention and congress will confine its deliberations to the tariff situation.

DIRECT election of United States senators is now duly and legally provided for. The requisite number of states have ratified the proposed constitutional amendment put up to them by congress only a year ago, Connecticut being the thirty-sixth to take such action, the past week. Hereafter all United States senators will be elected by direct vote of the people the same as congressman, governor or any other state official, the names of the senatorial candidates to be printed on the regular ballot. From this time on the state legislatures will have nothing whatever to say on the selection of senators, except so far as they have general supervision over the manner of conducting state elections. Special session of the legislature will be necessay in many states to enact the necessary laws to put the new rule into force. After fifty years' effort the constitutional amendment has been brought about within the past year, much more easily than was anticipated. President Wilson expressed himself as sincerely glad that the amendment has been ratified so promptly and the reform so long fought for at last accomplished. The measure is one to which the progressives of all parties have pledged themselves for some years past and brings closer to hand the day of direct rule of the people.

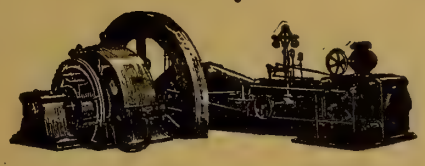
THE new tariff bill, which has already been introduced in congress and which has the approval of President Wilson, provides for free wool, free wheat, free meats, free sugar within three years and the removal of the existing duties from a majority of the necessities of life. While wheat and flour are put on the

(Continued on page 13.)

A Simple Idea Behind a Simple Starter

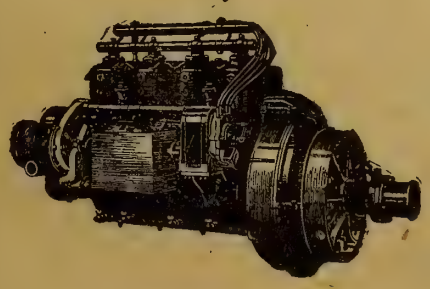
This electric lighting idea

Every Pullman car in the land is giving a daily demonstration of the Cross Country electric lighting system. Motor generator directly connected to axle for lighting purposes.



Coupled with this power idea

Allis-Chalmers direct current generator directly connected to a heavy duty Corliss engine. This is the type used in the Jeffery factory power plant—but much smaller.



Produced this perfected starting and lighting system

The Cross Country gasoline engine is directly connected to the electric motor generator. No chains; no gears; not even an extra bearing.

IT is not strange that the ideal self-starter grew out of a simple thing. For many years a great corporation has been making motor generators to attach to the axles of Pullman cars for lighting purposes. The application is direct and the light generating capacity positive. One day a man attached a similar motor generator to a gasoline engine and by a simple arrangement made it serve as a fly wheel. He simply adopted a principle proved practical by the builders of the great Allis-Chalmers power generators. It is not a new, untried experiment, but an old principle simply applied to a new use.

THE attachment of the electric generator to the Cross Country gasoline motor is not an afterthought. Little weight is added. There are no extra bearings, no chains, gears or belts. The parts are large and substantial. There isn't a single delicate piece. The result, of course, is efficiency.

STOP and listen when you see a Cross Country owner starting his car. Even in the most quiet street the sound will hardly be audible. You will recall that some puff, others grind and a few squeal. This one operates quietly, starting the motor without jerk or jar. There is only one operation. Others require three. The lighting system is positive and the lights brilliant. You will know the Cross Country if you meet it on a country road on a dark night.

A beautiful four-color reproduction of the Cross Country, from an oil painting by R. Philip Brainard, is ready for mailing. See the Cross Country by all means, at any Jeffery branch or dealer's display room, but send for the picture anyway.

The Thomas B. Jeffery Company
Main Office and Works, Kenosha, Wisconsin
Branches: Boston, Chicago, Milwaukee, New York, Philadelphia, San Francisco

Rambler Motor Cars

SAVE LABOR AND EXPENSE BY USING

Culverts on Your Farm

Corrugated Culverts enable you to quickly and economically bridge drains, gullies and small streams—and are equally well adapted for use on highways and railroads. To insure Culverts that will last and give good satisfaction, see that they are made only from high grade

APOLLO

Best Bloom Galvanized Sheets

"A product without a peer"

APOLLO Sheets have been meeting the most rigid service tests for over a quarter of a century, with highly satisfactory results. That is why upwards of 450,000 tons were used last year. You should use no other for Culverts, Tanks, Cisterns, Silos, Roofing and Siding. Write for full information.

AMERICAN SHEET AND TIN PLATE COMPANY

General Offices Frick Building Pittsburgh, Pa.

Keep the Grain Out of Your Straw Pile

All threshing machines are not alike. There is one different from all others. It has a different way of taking the grain out of the straw. **It beats it out** just as you would do by hand with a pitchfork. All other machines depend upon its dropping out.

This one different machine is the Red River Special and you should insist upon having it do your threshing. It will save all your grain and waste none of your time.

It saves the Farmer's Thresh Bill.

It has the Big Cylinder, the "Man Behind the Gun," the patented Grate and Check Plate, the greatest separating devices ever built.

The Big Cylinder drives the intermingled straw, chaff and grain against the separating grate, **beating** the grain through where the check plate catches it and delivers it to the grain pan and mill.

Ninety-five per cent of the grain is taken out right there.

The straw goes over upon the shakers which hold it and **beat** it until all the grain is **beaten out.**

In all other kinds the straw is hurried out of the machine and the grain is expected to drop out.

It doesn't. Thousands of green straw stacks every year loudly say it doesn't.

The Red River Special saves all this. Insist upon its doing your work this year. **It will save your thresh bill.** Write for proof.

To Whom It May Concern:

I. J. Knudson, farmer, of McHenry County, North Dakota, do depose and say that during the summer of 1908 I bought of Nichols & Shepard Company a threshing outfit, consisting of one 20-horse power, double cylinder traction engine and one 32x52 Red River Special Separator with wind stacker, self-feeder and weigher attached.

That on or about August 23, 1908, I started this outfit near a stack of old straw that had been threshed in 1907 by a ——— separator, and to stretch the belts on the new machine I caused a small load of old straw from the stack in question to be run through the new machine and was surprised to get over sixteen bushels of oats from this load of straw.

I afterward threshed out the **balance** of this stack and got 347 bushels of grain.

(Signed) JAMES KNUDSON.

Subscribed and sworn to before me, a Notary Public, in and for McHenry County, North Dakota, this 6th day of Feb., 1909.

[Seal] J. EDGAR WAGAR. Notary Public.

My commission expires March 27, 1914.

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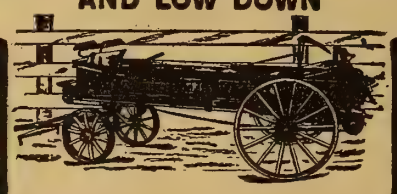

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

GROWING CUCUMBERS SUCCESSFULLY.

To the Editor of The Homestead:

Cucumbers will do best on a sandy loam that has been well enriched by a liberal application of well-rooted manure, but very good crops can also be grown on heavy clay providing that the soil is made loose by mixing a shovelful of well-rotted manure with the soil of each hill. It is also a good plan to mix some sand with each hill where the soil is very heavy and apt to bake.

Cucumbers are very rank feeders and for this reason there is little danger of getting the soil too rich. The only thing to be guarded is to see that when manure is applied in the hill it is well mixed with the soil, as sometimes if it is all left in one place, the young plants will be burned when the roots get into the manure.

Some gardeners sow cucumbers in drills five feet apart and thin out the plants to stand one foot apart in the row. However, the best way, and the one most generally practiced, is to plant in hills about five feet apart each way.

The first planting may be made when the ground is quite warm and danger from frost is past, which is usually about the time the trees are coming into leaf. Prepare the hills as directed above and plant from fifteen to twenty seeds in each hill so as to make a liberal allowance for the striped bug, which is quite sure to make its appearance. Cover the seed about three-fourths of an inch deep and pat the soil down with the back of the hoe, but do not pack it. If it should happen to rain and the soil bake before the plants are up the crust should be carefully broken with the fingers or a fork as the young plants very often cannot get through the crust unaided.

As soon as the plants are coming through the soil the bugs should be watched for. In many cases they will eat the plants before they are entirely out of the ground. Tobacco dust, wood ashes, soot and air-slaked lime are the means used to drive away these insects, but the writer has found that soot is about as effectual as anything that can be used.

It is a very good plan to apply any of these remedies as soon as the plants commence to come through, even if there are no bugs to be seen, as in this case an ounce of prevention is better than a pound of cure.

As the plants grow they should be dusted every few days. Apply same early in the morning while the dew is still on, thus causing it to adhere, throwing it well under as well as sprinkling it over the plants.

When the plants are up commence hoeing or cultivating at once, working all of the soil close up to the plants, for working the soil well up to the plants not only loosens the soil and kills the weeds, but also disturbs the bugs.

Hoeing or cultivating should be done quite frequently until the vines commence to run. As soon as the plants commence to run or vine they should be thinned out to the three best plants to each hill. If the ground is kept well hoed or cultivated until the plants commence to run they will require but little attention thereafter, as the vines will soon cover the ground.

Cucumbers should always be cut, never pulled, from the vines, as this latter method disturbs as well as greatly injures the vines. The fruits should be picked as soon as they are ready for use, as if they are allowed to ripen the crop will be cut very short, as the vines soon die if any fruits are left on them until they turn color.

Cucumbers for the late picking crop need not be planted until the middle of June or beginning of July. A good plan is to plant the seed among early potatoes, making hills as directed above. When the potatoes are gone the cucumbers will have made a nice start and you will thus be able to get two crops off your land which would

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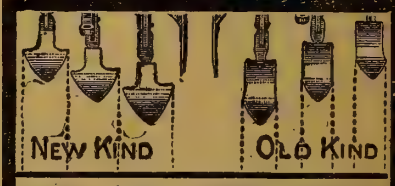

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otherwise lie idle after the potatoes are dug.

In many ways it is better to plant the crop for pickles late, as the bugs, as a rule, do not bother the later plantings nearly so much as the early ones; also the plants will just about have commenced to set fruits when the hot weather is over and in cool weather the pickles seem to be of finer quality than those that come on during the hot summer months.

Cucumbers of all sizes should be picked early in the morning, as they will then be much more crisp and tender than if allowed to remain on the vines until the middle of the day.

J. W. Jung.

GRASSES THE MOST USEFUL PLANTS.

Probably the grasses are the most useful plants in the world. It may be that more than half the individual plants in the world are grasses. It is a great family of more than 3,500 species, embracing species that are so tiny that they hardly reach an inch in height, and giant bamboos of the tropics that sometimes grow to be 100 feet or more.

Corn is a giant grass; and wheat, rye, oats, barley, rice and sugar cane are all grasses. Then there are millets, sorghum, kaffir corn, broom corn —all grasses.

The number of species of grasses is enormous, yet we have adopted into our system of agriculture but a few sorts. In part that is due to the ease or difficulty of seeding grasses. Timothy grass, for example, is so easily sown and the seed so easily gathered, that it is soonest set of any, and has become the standard hay grass of northern climes.

In some regions of Kentucky blue grass is the almost universal pasture grass because it comes in of itself; in other regions with different soil (poor and lacking in lime) redtop has possession. Naturally the farmer follows the line of least resistan e, yet it is by no means certain that he has adopted into his agriculture all the best grasses that nature has provided.

On the mountains and hills of Utah, for instance, once grew wild bunch grasses that would keep cattle fat all through the winter, standing dry, yellow and cured on their stems. We have not yet learned to use that bunch grass in cultivation; maybe we shall never learn to use it. Some day we shall do more toward using now neglected grasses.—[Joseph E. Wing in "Meadows and Pastures."

FAST GROWING TREES.

A subscriber of this paper writes to ask which is the fastest growing tree for a windbreak, Carolina poplar or catalpa? Without doubt the poplar is the most rapid grower of any of the deciduous trees. It is probably a third faster grower than the catalpa, but while it grows so fast it is not considered very valuable for windbreak. A windbreak must grow close to the surface and branch out and carry foliage low down. This is exactly what the Carolina poplar does not do. It grows so fast, making a loose top, and the lower branches speedily dying, that there is nothing to break the wind but the spindling trunks.

The catalpa will branch more, but that is too open for a desirable windbreak. Few of the summer trees are desirable for windbreak purposes. Elm and maple are too tall growers. They incline to make heavy tops, but they are too far from the ground to stop much wind. Perhaps the box elder is the best for this purpose, for if given room it will branch out and make a low, scraggy growth.

Any of the deciduous trees if topped back may be made to sprout out, making numerous stems, and for a time you will have much foliage close down. But the stems will run up as fast as possible, some will overcrowd the others, and the weaker ones will die out. As it tends to its natural end gradually only one of the stems will survive and the branches will all be where nature would have them, high up in air and of no use for windbreaks.

From the nature of trees the evergreens are fitted to be windbreak trees. They branch out near the ground, and if left to grow as they would they form a perfect pyramid, the

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Besides a feeling of safety the owner of one of these Regal Underslungs finds additional satisfaction in the appearance of his car. The low rakish body gives it that "different" look which makes a man proud of the car he drives, The nickel-plated trimmings, electric lights and luxurious upholstering are further factors for beauty, comfort and satisfaction.

As one intending the purchase of a car for country travel, you owe it to yourself to learn more about this car and the other Regal Underslungs. See and talk with the nearest Regal dealer or, in case there is no Regal representative near you, write us at the factory.

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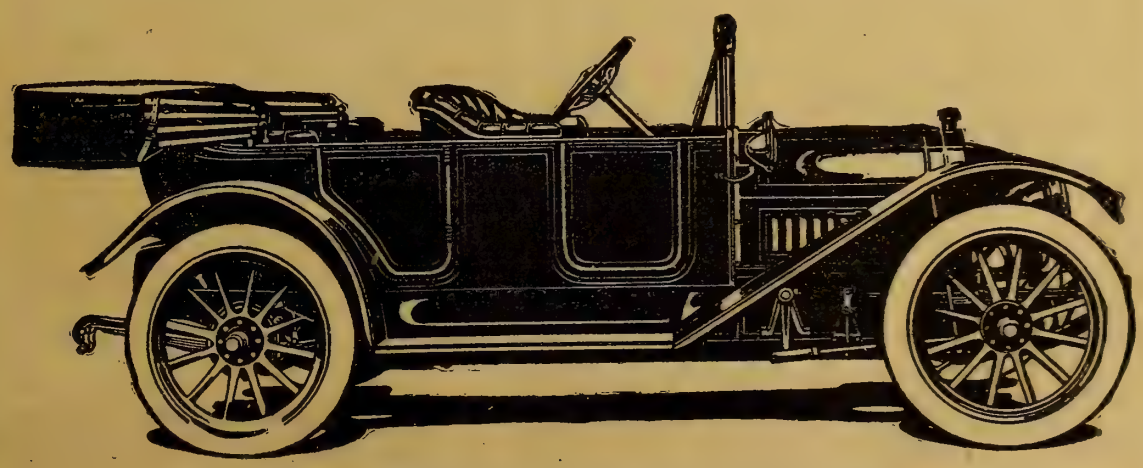

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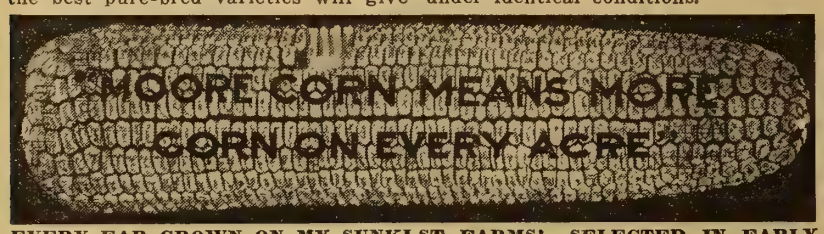

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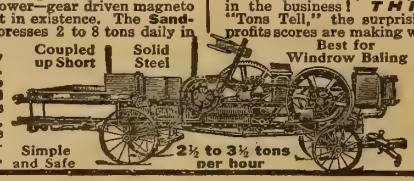

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lower branches, if plenty of room is allowed, sweeping the sod in continued health. That makes the perfect windbreak with the branches where they are needed. It follows, of course, that if the conifers are crowded (as in a forest) the limbs at the bottom will die off. Limbs die when shut out from sunlight, but give your trees plenty of room and the lower limbs will persist.

You may at first plant them ten feet apart, and then in five or six years it will be necessary to cut out half of them for Christmas trees, and these can usually be sold at a profit.

Whatever else you do, having set out evergreens for a windbreak, do not make the mistake of letting them grow up so thick that their windbreak value is destroyed through the loss of the lower limbs. Better as soon as they begin to suffer from crowding (or a little before) go in with a sharp ax and a resolute mind and chop out half of them.

SPRING PRUNING OF FRUIT TREES.

To the Editor of The Homestead:

I have always believed in autumn pruning, but last fall I was so busy with various repairs, etc., about the farm that I neglected to prune a number of peach trees on my place until the 15th of March, when I noticed that several of them, and two in particular, were badly in need of pruning, so I trimmed off all the low, downward tending limbs, and a few among the top branches which were crooked or broken, or which rubbed against each other.

In fact, when I got to work on these two trees I found so many limbs which I saw should come off that I pruned the trees somewhat severely, and as we had rather warm weather for the next ten days these trees began to put out leaves before the buds on the trees I pruned last fall had begun to swell. The result was that when we had another spell of freezing weather last week the buds on these two trees were killed, while the trees pruned last autumn were uninjured.

During the latter part of the winter, even before the cold is out of the ground, there is at least some sap rising in fruit trees and other trees, but not enough to swell the buds under ordinary conditions until the ground begins to warm up. However, it seems that as a certain amount of sap is rising and flowing out to the tips of the limbs, if the tree is pruned severely this leaves fewer branches for a given amount of sap to flow into, so it makes a larger proportion of sap for each limb left on the tree, and this excess of sap forces the buds out prematurely. I cannot see what other reason should have caused these two peach trees to bud out so early as to get their tender leaves killed.

In the case of early blooming fruit trees like peach trees it seems wise to prune them always in the autumn, so the cut wood will cure, sear over and harden by the cold, and in order that the sap may not rise so strongly in the spring, for, of course, the larger and more bushy the top of a sturdy young tree the more strongly does it begin to pump sap up from the roots in the ground in the early spring, and if you decrease considerably the size of the tree's crown just at this time it is natural that the sap, being distributed to a smaller number of limbs, should force the buds out prematurely. In fact, whether fruit trees are early blooming or late blooming it is better to prune them in the autumn or not at all. Also beware of stirring the soil around trees too early in the spring, as this starts the sap to rising more freely.

A peculiarity about one of these peach trees which I pruned so severely this spring was that it stood on the south side of a large barn or rather the barn was on the north and east side, as it is built in a kind of ell. This put the tree in a warm pocket on the south and west side of the barn, where the afternoon sunshine fell upon it, causing it to put out leaves more quickly than the other one. It was shielded by the barn from the cold north wind, and this, together with the severe spring pruning, proved a serious disadvantage to it.

Subscriber.

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DRAINAGE You can drain your land without digging a ditch. Write for circular at once. **VERTICAL DRAINAGE CO., Clinton, Iowa**

Tell me not in idle jingle,
Russell's sale is but a dream!
For the crowds with whom you mingle
Are very fond of Holstein cream.

For Sale, Boy Proof Watches

A SPLENDID timekeeper for any one, stem wind and stem set, finished in either nickel or gunmetal. Guaranteed and sent on approval to any address for only $1.50 postpaid. S. W. Harr, Watch Department, Riverside, Iowa.

WEDDING Invitations and Announcements, 25 with 2 sets envelopes $1.50; 100 for $3; delivered. 100 calling cards 60c. Latest styles. Samples free. Address **ERNEST HARRISON CO., OAKLAND, IA.**

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address **HOMESTEAD COMPANY Engraving Dept. Des Moines, Iowa.**

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

WAGES BY THE HOUR.

A Subscriber, Dannebrog, Neb.—I hired a carpenter to build a house and agreed to pay him so much an hour for his work. He lives in town, two miles away from where the house is being built. I give him his dinner every day when he works. Nothing was said in the contract about the time it takes going to and from the work. Can he recover pay for time spent in going to and from my place?

Answer.—The carpenter is entitled to pay for the hours he actually works for you in building the house, and not for time spent in going to and from the work.

STANDARD WEIGHT OF OATS.

Mr. W. J. Mead, Lime Spring, Iowa.—I understand that the law in Iowa regulating weights and measures fixes the weight of oats at thirty-two pounds per bushel. The various grain buyers along the Great Western and M., St. Paul and Minneapolis railroads, for some distance, take thirty-three pounds of oats for a bushel. (1) Is there any way to prevent them from taking that extra pound on each bushel they buy? (2) Cannot the state authorities act, or the farmers prosecute the dealers who take extra weight?

Answer.—(1) The law provides that all contracts for anything to be sold or delivered by weight or measure shall be taken and construed according to the standards of weight and measure adopted as the standard of the state of Iowa. In this standard oats is fixed at thirty-two pounds to the bushel. Therefore where oats is sold at a certain price by the bushel the seller can recover by law from the buyer the value based upon said standard of thirty-two pounds to the bushel. There is no criminal offense involved unless the buyer uses false scales or measures. The buyer's refusal to allow for the extra pound in each bushel makes him liable to a civil action, but not to a criminal prosecution. The state authorities have not power to act, neither can the farmers prosecute the buyer for crime.

TENANTS IN COMMON—NOT PARTNERS.

A Subscriber, Pukwana, S. D.—About seven years ago I traded a half section of land in South Dakota for a store building in Iowa. I gave the agent who brought about the trade a half interest in the building for his commission and the building was deeded to him. Later on he traded the building for land and then traded the land for a stock of merchandise, and then traded the merchandise for land, and recently sold the land for about $20,000. The building was worth about $4,000. We never had any settlement, and now he claims that my half interest in the building ceased when he traded it off, and is willing to allow me half of what he received for it, and no more. Am I not entitled to half of all the profits made in the various transactions, and if I am, how can I recover the same? He has no property in this state.

Answer.—You are not entitled to one-half of all the profit made in the various transactions. You and the agent were not partners, but simply tenants in common of the buildings, each owning an undivided half thereof, the legal title being wholly in him. When he traded it off you were entitled to half its actual value, and you can recover that with interest till now, provided the agent is financially responsible.

SALE OF FARM—DESTRUCTION OF BUILDING.

A Subscriber, Shelby, Iowa.—A is administrator of an estate and was authorized by the court to sell certain described real estate having buildings on it, belonging to said estate. In September, 1912, A sold the property to B, receiving one-tenth of the purchase price, agreeing to convey same and give possession on the 1st of March, 1913, when B is to pay in full. A little while after this sale B sold the property to C under the same kind of a contract. In January, 1913, a tenant living on the place, by accident burned a buggy house thereon. In the several contracts no mention was made of buildings on the place. Who must bear the loss occasioned by the burning of the buggy house?

Answer.—The various contracts for sale of the property not having been consummated or complete at the time the buggy house was destroyed the loss occasioned by the burning must be borne by the estate. The estate therefore must make the loss good to B and B in his turn must make it good to C. If, however, the burning was caused by the negligence or carelessness of the tenant he is liable to the estate therefor.

NOT FIXTURES.

Mr. L. E. Long, Fredericksburg, Ia.—When A sold his farm to B nothing was said about a hand cream separator which was fastened to the pantry floor with four screws, nor about a portable pump jack that was clamped to the pump. Can B hold these articles as fixtures to the farm?

Answer.—The articles mentioned are merely personal property belonging to A, and he has a right to remove them from the place at or before the time of giving possession. They are not fixtures and B has no right to hold them.

SALE OF LAND—RENTAL—DEBT.

Mr. J. J. Whisler, no postoffice, no state.—In 1912 I gave to B a contract for deed, and also deed for eighteen acres of land, which were never recorded, in consideration of $2,000, drawing 8 per cent interest, but had the option to pay this January 1, 1913, which I did, or caused to be paid, and B now has the money. (1) Had B a legal right to the rentals from the land? (2) B owes me $155.60 for labor performed for him during the season. He now claims he does not owe me anything. Can I recover this amount, and how shall I proceed to do so?

Answer.—(1) Whenever the party buying the land was entitled to possession of it under the contract, he was from that time entitled to all rentals. (2) We do not know. You and B differ widely as to the matter, and we do not know which is right. If your claim is good, you can recover judgment therefor against B by suit.

CONTRACT FOR PRINTING.

A Subscriber, Dexter, Iowa.—A is a stock company operating a telephone exchange. B is a lineman and manager of the company. C is a printer. B employed C to print telephone directories for the company, which was done according to agreement, and B promised to pay therefor as soon as he could collect for advertising in the directories. The matter has run for nearly a year and B has not paid C.

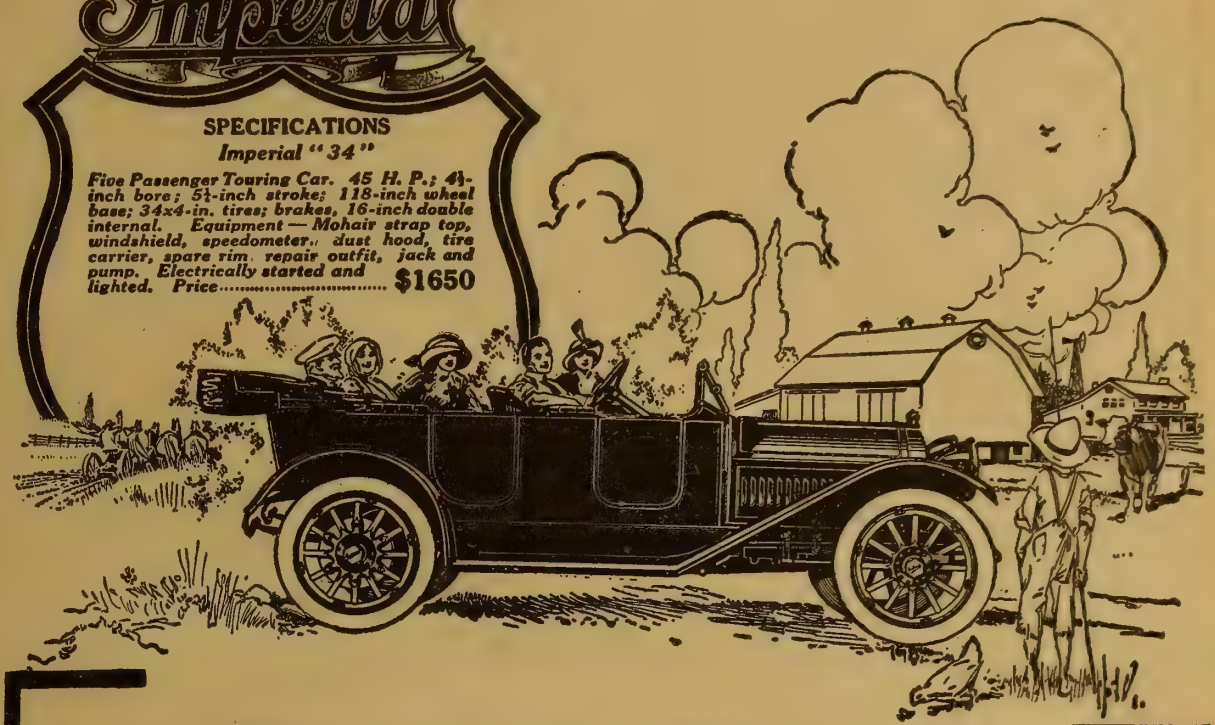
(Continued on page 15.)

Imperial

SPECIFICATIONS

Imperial "34"

Five Passenger Touring Car. 45 H. P.; 4¼-inch bore; 5½-inch stroke; 118-inch wheel base; 34x4-in. tires; brakes, 16-inch double internal. Equipment — Mohair strap top, windshield, speedometer, dust hood, tire carrier, spare rim, repair outfit, jack and pump. Electrically started and lighted. Price..... $1650



"Imperial Wins!"

—the Verdict of Thousands of American Farmers

The American Farmer is a critical judge of automobile values. He knows absolutely what endurance power a car *must* have to withstand the wear and tear of country roads. Thousands of representative farmers have purchased Imperial Cars. They received the *highest automobile* quality at the *most* consistent, *moderate* price. They have enthusiastically endorsed the Imperial. Their verdict of approval should lead you to give our cars your serious attention.

Quality Always Wins Out

1000 men under the leadership of experts, build the famous Imperial models. No car leaves our vast factory until it is declared by our testers to be 100 per cent efficient. Inherent in every Imperial is a maximum of power, strength, durability and service. Every Imperial owner has found, by experience, that our assertions are not "paper claims." *Imperial quality has won out.*

Economy in Cost

When you purchase an Imperial you will not be called upon to pay an exorbitant, fancy price. We are satisfied to build cars and get a legitimate, reasonable profit. Because we build them in one of the largest, individual automobile factories in the world, equipped with the latest devices known to auto science, we are able to offer the highest values at extremely moderate prices.

Imperial Best for Country Service

For country use you demand *Power above all in a car.* You will find a tireless, lasting motor in the Imperial. It creates a big surplus of power. It defies the steepest hills — carries you through sandy or muddy roadbeds. It is Silent, Simple, Accessible. The Imperial clutch, transmission, motor and control lever are combined in a single power plant. This keeps all parts in perfect alignment and eliminates unnecessary friction. Imperial bodies are noted for their sweeping lines of beauty. Comfort has been developed to a remarkable degree.

Imperial "34"—A Triumph

Imperial "34" has never failed the farmer. Thousands of them are giving continuous and remarkable service in every part of the country. You can take a just pride in this car. Your friends will admire your judgment in selecting it. You will find in it constructional superiorities not found in cars costing at least $1000 more. It means low First cost—Small Maintenance. Every part is built to insure you against trouble. Remember, its simplicity of operation makes it easy for your wife or even your children to drive. And all these values for..... **$1650**

Imperial "34"—Roadster

This model won such nation-wide approval on account of its power and endurance that hundreds demanded the same values in a roadster. Consequently, we have constructed a perfect roadster, endowed with the same enduring life, for the same moderate price, **$1650**

FOUR OTHER TYPES

Imperial "54"—7-Pass'r Touring Car; 6-cyl. cast in threes; 60 H. P.; 4½-inch bore; 5½-inch stroke; 137-inch wheel base; 36x4½-inch tires. *Electric Starting and Lighting System.* Complete equipment... **$2500**

Imperial "44"—5-Pass. Touring Car; 4-cyl.; 50 H.P.; 4½-in. bore; 5½-in. stroke; 122-inch wheel base; 36x4-inch tires. *Electric Starting and Lighting System.* Complete equipment. **$1875**

Imperial "33"—2-Passenger Roadster; 40 H. P.; 4½-inch bore; 5½-inch stroke; 114-inch wheel base; 34x4-inch tires. Complete equipment..... **$1285**

Imperial "32"— 5-Passenger Touring Car; 40 H.P.; 4½-inch bore; 5½-inch stroke; 114-inch wheel base; 34x4-inch tires Complete equipment..... **$1285**

Imperials "54," "44" and "34" are Electrically Started and Lighted

Write today for the instructive and comprehensive Imperial catalog. We will be glad to arrange for a demonstration of Imperial cars.

IMPERIAL AUTOMOBILE COMPANY

Factories: JACKSON, MICHIGAN

(49)

National Conference on Markets and Farm Credits.

A CAMPAIGN has been successfully launched which has for its purpose the betterment of marketing conditions in order that the cost of taking farm products to the consumer may be lessened. At the first national conference on marketing and farm credits held in Chicago last week convincing proof was furnished to show that the farmer is at the present time getting too low a price for produce on the average while at the same time the consumer is compelled to pay more than he should pay for what he consumes. Products for which the housewives of America pay thirteen billion dollars annually are sold by the farmer for the sum of six billion dollars. This simply means that farm products for which the farmer receives forty-six cents costs the consumer $1. Included in the consumer's cost there is a 12 per cent waste which in itself amounts to one-half billion dollars annually. If the high cost of living, therefore, is reduced a saving must be effected in at least two respects, namely, in cutting out the waste and in selling expense.

Those who have berated the farmer for his failure to produce a sufficient supply of farm products and who have, therefore, held him responsible for this high cost of living were faced with facts at this conference which proved conclusively that the farmer is not to blame. Under the present system the farmer is penalized for raising a large crop, this being clearly proven by comparing the farm value of the 1911 and 1912 grain crops. Although the crop of 1912 exceeded the record of the previous year to the extent of more than one-half billion bushels, yet its market value was actually eighty million dollars less than in 1911. No other construction can be put upon this comparison than that the present system of marketing punishes or penalizes the farmer when he responds to the demand to raise a larger crop.

To point the way out of the difficulty and to make a beginning in he establishment of a system that would reduce the price to the consumer and increase the price to the farmer, was one of the chief purposes of this meeting and co-operation, as applied to producers and consumers alike, was the principle recommended by the conference. Some idea of the possibilities of improving selling methods may be realized by the study of a few concrete examples, these being given by Pres. Chas. R. VanHise, of the University of Wisconsin. When the farmers of Waupaca county, Wisconsin, were receiving thirty cents per bushel for potatoes, the consumers of Milwaukee were paying eighty-five cents a bushel. The expense of shipping was six and one-half cents a bushel, thus leaving a margin of forty-eight and one-half cents for the middleman, his services being paid for in this instance at the rate of 133 per cent. Another instance is that of cabbages selling at $83 a ton at River Falls, Wisconsin, and the same cabbages being purchased by the consumers of Chicago at $300 a ton, the freight between the two points being $3. Here was a profit of $217 a ton, or 250 per cent beyond cost. Hundreds of instances could be given of a similar character, all of which lead to the conclusion that the whole marketing system is antiquated. The line between the producer and consumer is too long. As the result of the exorbitant price that is demanded from the consumer, enormous quantities of perishable farm products go to waste. Instances were cited at this conference where a single car load of farm produce was made to meet the needs of a city or town and prices maintained at the highest point, whereas the same market in many instances would absorb five car loads of the same produce at prices having some relation to the value which the farmer received for his produce.

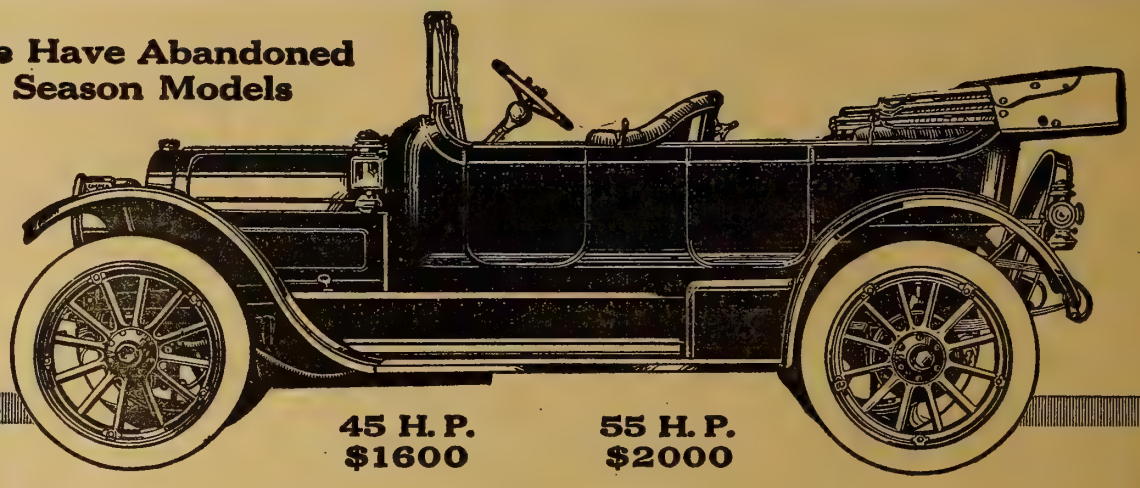
In many instances loss results from glutting the market, one case being cited where a car load of onions was shipped to Philadelphia and sold for $9 less than the amount of the freight charges. This example possibly more than any other shows the great need of some kind of co-ordinate effort on the part of producers in a given locality in order that their products may be placed on a market which can absorb them at a price that leaves a profit to the producer. If the condition is improved, according to President VanHise, the solution must come from co-operation—co-operation of the producer, co-operation of the consumer, co-operation of the distributing agency with the producer and the consumer.

The conference endorsed the action of congress in appropriating $50,000 with which to make a beginning in the study of ways and means to bring the farmer and the ultimate consumer closer together. Prof. W. J. Spillman, who spoke in behalf of the department of agriculture, expressed the belief that as the need for this work became better known congress would respond liberally in order that a useful marketing bureau might be built up. Hitherto the department of agriculture has devoted itself largely to the problems of production, but, as pointed out by Professor Spillman, it is becoming more and more apparent that increased production will not in itself meet the needs of either the farmer or the consumer. The great problem that must be faced by the department, if it is to serve all the people effectively, must be to find some way to reduce the cost of distribution. In the case of certain crops it is believed by Professor Spillman that the new department can, to some extent, prevent overproduction which in all cases causes the farmer an enormous waste of labor.

In the matter of farm credits the conference emphasized the importance of making further investigations. No foreign system it was clearly shown would operate successfully under conditions that are so radically different as exist in the United States. Legislation will be needed in almost every state before any material change can be made in our banking system. Strong support in this conference was given to at least two changes affecting the financial interests of the farmer. In the first place some plan should be put into effect that would make farm mortgages negotiable so that they can become a common form of investment in small or large denominations. The second urgent need as affecting farm finance, relates to matters of personal credit. In the opinion of experts, who presented this matter to the conference, authority should be conferred by law on present banking institutions whereby short-time farmers' paper shall be made negotiable. Under certain restrictions this paper can be made practically as safe as the government bonds. With the endorsement of the local bank and with the further endorsement of the larger institutions as paper finds its way to money centers, it will in due time become a popular form of investment and thereby bring to the needs of the farmer the financial resources of the whole country. Not only is it desired that the farmer be given freer access to the financial resources of the country through his borrowing power, but a step in advance of this met with much favor in this conference, namely, that through a system of co-operation something shall be done for the landless man whose only asset is honesty, industry and integrity. If a system of co-operation as applied to finance can reach this class it will ultimately solve the question of the "manless" land.

In its resolutions the conference singled out the small farmer as the one for whom improvements should

We Have Abandoned Season Models



45 H. P. $1600 55 H. P. $2000

This 20th Anniversary "Jack Rabbit" Car Will Be Up-to-Date for Years to Come

Season styles may be all right in millinery and clothing. It's an extravagant and useless custom when applied to automobiles. "Jack Rabbit" Cars have been mechanically perfect since 1903—the finished work of 10 busy years on part of the Apperson Brothers.

No material change in mechanical design or construction has since been necessary. To force good cars out of date by bringing out new models, with changes that are unessential, is not fair to the owners. We have entirely stopped the practice. You make a permanent investment when you buy a "Jack Rabbit."

One Apperson "Jack Rabbit" Car is all you ever need buy

It will last you as long as you need a car. There are "Jack Rabbits" in use today 17, 18 and 19 years old. The average age of all our cars now in use is 8 years. No "Jack Rabbit" has ever worn out. You can safely invest a lifetime's savings in a "Jack Rabbit". It won't disappoint you. No such certainty in other cars. No one of them has 10 years of real proving—our cars have had 20 years proving.

$800 a Year Income Is Enough

to afford a "Jack Rabbit"—many a man with an income of only $800 a year owns an Apperson. With 17,000 cars on the road—some of them very old models—the average cost of mechanical upkeep to "Jack Rabbit" owners last year was only $5 per car. The average of other cars is $20 or over—and all these cars are comparatively new. Owners of recent "Jack Rabbit" models scarcely know the meaning of mechanical trouble.

As Beautiful as It Is Durable

Particular men and women both make the "Jack Rabbit" their choice—men, from a practical business standpoint; women, because it just suits their keen sense of refinement and is the easiest car for a woman to operate. "Jack Rabbits" have easy cushions, stylish bodies, beautiful finish and luxurious equipment.

9% Profit

is all we make on the Apperson. We have a smooth-running manufacturing organization—the result of 20 years' building. The Apperson Brothers own 97% of the stock. We have no interest on borrowed money to pay. Our overhead expense is extremely low. We can guarantee you this: No car can be built with Apperson quality to sell at Apperson prices on a margin greater than 9%. This is an important thing to consider.

Only a few thousand "Jack Rabbit" cars are built each year. Each car is an **individual** product built under the direct personal supervision of the Apperson Brothers.

Write for Our New Catalog

Investigate this lifetime, always-in-style car—**the car with the powerful engine.** Write for catalog today.

Electric Self-Starter and Electric Lighting Furnished if Desired

Apperson Bros. Automobile Co.

319 **Main St., Kokomo, Indiana**

TWENTIETH 1893 1913 ANNIVERSARY

I AM LIGHT IN WEIGHT — Apperson

I HAVE SPEED WHEN NECESSARY — Apperson

TWENTIETH 1893 1913 ANNIVERSARY

be made in establishing systems of credit.

Organized co-operation both for consumer and producer under proper supervision was endorsed more especially relating to efficient distribution and economical marketing in order to reduce expenses between producer and consumer.

The improvement and extension of the parcel post was recognized as a potent factor in reducing the cost and facilitating the distribution of farm products to consumers and its rapid extension by the government was urged.

Favorable action was taken in the endorsement of an international conference on marketing and farm credits to be held in San Francisco in 1915 under the auspices of the Panama Exposition.

By a unanimous vote of the conference the next meeting date was fixed as well as its location. It will convene in Chicago on the second Tuesday in April, 1914, and will be held under the auspices of the agricultural press of the United States.

CURRENT EVENTS.

(Continued from page 7.)

free list, a duty of 10 per cent is imposed against countries which levy a duty on American flour. This will exclude flour from Canada and many other countries. Raw wool will be made free at once, with a correspondingly heavy reduction in the tariff on all-wool goods. Sugar will be free of duty in 1916, the bill proposing an immediate 25 per cent reduction and a similar reduction each year until the entire duty had been removed, in 1916. The following articles are put on the free list: Meats, flour, bread, boots and shoes, lumber, coal, harness, saddlery, iron ore, milk and cream, potatoes, salt, swine, corn, cornmeal, cotton bagging, agricultural implements, leather, wood pulp, bibles, printing paper not worth more than two and a half cents per pound, typewriters, sewing machines, typesetting machines, cash registers, steel rails, fence wire, cotton ties, nails, hoop and band iron, fish, sulphur, soda, tanning materials, acetic and sulphuric acids, borax, lumber products, including broom handles, clapboards, hubs for wheels, posts, laths, pickets, staves, shingles. With a majority of 150 in the house the democrats will have but little difficulty in getting the bill through. With a small majority in the senate, however, there will be difficulty, particularly on the free sugar and free wool propositions. The two senators from Louisiana are leading the fight against free sugar, proposing as a compromise that sugar shall be free in 1916 if the president then believes that it is to the best interests of the cane growers as well as the consumers that the duty should be removed. The president, however, insists that ultimate removal of duty be decided upon now and hopes by progressive support to get the bill through the senate unamended.

SUFFRAGISTS both in the United States and in England are displaying unusual activity although the methods are diametrically opposite. The British suffragists are continuing their lawless policy, not only burning down buildings, but threatening human lives in their attempt to compel the government to give them the ballot. One of their leaders, Mrs. Pankhurst, has been sentenced to three years' imprisonment for advising the burning of one of the homes of David Lloyd George, chancellor of the exchequer. In the United States a large delegation of suffragists visited Washington on the opening day of congress, presenting a petition for a constitutional amendment which would grant women the suffrage in every state and territory, without waiting for legalizing acts in the separate commonwealths. The women were met in the senate by a number of the leading senators, prominent in the list being La Follette, of Wisconsin; Poindexter, of Washington, and Southerland, of Utah, who promised the women to vote for the desired amendment. Were the federal congress to take such action it would bring to pass the day of universal suffrage in this country much more quickly than it can be brought by the action of the individual states, although already nine states grant to women unrestricted suffrage, with five others now having the amendment pending before their voters and three others having the amendment adopted by one of the two branches of the legislature.

AN ALIEN land act that will be effective in prohibiting Japanese, and other foreigners not eligible to citizenship of the United States from holding or leasing real estate in California is about to be enacted by the legislature of that state. The action will precipitate another entanglement between this country and Japan over the vexatious racial problem. The federal government contends that the proposed action of the California legislature is antagonistic to the treaty existing between the two nations, which provides that the citizens of each shall have liberty to enter, travel and reside in the other and among other things to "own or lease and occupy houses and to lease land for residential and commercial purposes." The action of the legislature was brought about by the purchase of a large tract of land, many thousands of acres in extent, by a Japanese colony ostensibly for agricultural purposes, but possibly for the securing of a foothold on the coast from which expeditions might be launched, were a war ever to result between the two countries. The action of the legislature is akin to that taken by the San Francisco school board a few years ago, when it was attempted to prohibit Japanese children from attending the public schools. It was not until the federal government had intervened that the matter was amicably settled and the friendly relations between Japan and the United States maintained. War talk has subsided within recent months, but it is feared that the present legislative action will renew it.

THE fall of Adrianople, while it hastened the end of the Balkan-Turkish war, did not bring hostilities to a stop. The most important development since the Adrianople surrender has been the capture of Scutari by the Montenegrins, who heretofore had played a rather unimportant part in the operations. No sooner had the Montenegrins been thus successful than the demand was made by Austria that they surrender the territory thus secured, this demand being backed up by a formidable international fleet comprising warships of Austria-Hungary, Italy, France, Germany and Great Britain. Notwithstanding its small size the Montenegrins defied the powers, absolutely refusing to surrender the territory thus won. Montenegro is the smallest and least important of the Balkan states, yet at the same time the only one which has never been conquered by nor owed allegiance to any other country. It is a small, mountainous region, the people eking out a precarious livelihood by small garden patches on the mountain sides. Whether the little nation will be able to defy the power successfully and retain the territory which they won at such a cost remains to be seen.

THE republic of China has been officially recognized by the United States, which is the first world power thus to grant recognition to the new government. President Wilson was insistent that the young republic should be given early recognition and on the second day of congress took the necessary steps. He is hopeful that the other world powers will follow suit, although Great Britain has already announced that it does not propose to recognize the Chinese republic, for the time being at least. It will be recalled that the republic was formed following the overthrow of the former tyrannical monarchy. An American-educated celestial, Dr. Sun Yat-Sen, was chosen provisional president, but resigned in favor of Yuan Shi Kai when he found that the welfare of the young republic would be bettered by his abdication. A constitutional assembly somewhat similar to our congress has been provided to give the Chinese a form of government under which it is believed that the nation will progress much more rapidly than heretofore.

POPE PIUS X., head of the Roman Catholic Church, is reported seriously ill at the Vatican, his condition the first of the week being grave. The Pope is now in his sixty-eighth year and for ten years past has been head of the church having been elected pope in August, 1903. Prior to that time, for ten years he had been cardinal and patriarch of Venice, where his simplicity of life and sympathy with the poor had endeared him not only to the members of his own church, but to all who came in contact with him. Pope Pius succeeded the great prelate, Leo XIII., and has administered the affairs of his high office in a manner at once dignified and simple. One of the last public acts performed by the Pope was the reception accorded to Rear Admiral Peary, the American discoverer of the north pole.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending April 13, 1913:

The past week was unseasonably cold and stormy. The average daily temperature was about 7 degrees below, and the average rainfall nearly two inches more than normal. Rain or snow fell almost continuously from Sunday night to Friday. Over the nothern half of the state the snowfall was heavy on the 10th; the amounts ranging from one inch in the southern part of that section to twenty inches in the northwestern counties. The sunshine was nil until Saturday. Freezing temperatures occurred on in or two mornings over a large part of the state, but the only damage resulting from the cold, wet weather was in delaying the necessary work of an already belated season, and in the small loss of young pigs and chickens. Unsheltered stock suffered during the storm. The freezing temperature did no damage to fruit as the buds are still dormant, and in good condition, as are also winter grains and grasses. Compared with the average of past years the season is now fully two weeks late, but the soil is saturated with moisture, and only warmth and sunshine are needed to quicken the growth of vegetation.

GEO. M. CHAPPEL,
Section Director.

The Winged Message

Noah's messenger was a dove. In Solomon's time, pigeons were trained to carry messages. Brutus used them at the siege of Modena. They served the Turks in their fights against the Crusaders. In mediæval wars they were more useful than ever before.

France had a carrier-pigeon mail service, with messages reduced by photography and read through a microscope.

Even today carrier pigeons are utilized as news-bearers in isolated parts of Europe.

In America, the land of the telephone, the carrier pigeon is bred only for racing. The winged word has taken the place of the winged messenger.

Pigeons may fly more than a mile a minute, but the telephone is as quick as speech itself.

The dove is the emblem of peace. The telephone is the instrument of peace. The telephone lines of the Bell System unite a hundred million people in one national family.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES

One Policy *One System* *Universal Service*

Bovee's Compound Horizontal Furnaces at Manufacturer's Prices

Save 40% of Fuel and Cost.

Burn perfectly coal or wood. Sixteen-inch doors. Heavy coal grates—large combustion chamber—compound radiator.

Long travel of heat. Easy to operate. Most practical heating plant for all buildings, especially for farm use.

Will soon save cost in fuel. Write for particulars.

BOVEE FURNACE WORKS,
200 8th St., Waterloo, Iowa.

BOHON'S BLUE GRASS BUGGIES

Are sold direct from the factory—cutting out all middlemen's profits. I will sell you any Buggy or Harness I make on 30 days' road trial backed by a 2 years' guarantee. If you are not entirely satisfied, I will refund your money and pay freight both ways. Let me send you my big

BOOK OF BUGGY BARGAINS FREE

It shows all the latest styles, how they are made, tested and inspected, and explains my guarantee. I want you to have it. Just send me your name and address on a postal—TO-DAY.

D. T. BOHON, 231 Main St., HARRODSBURG, KY.

I can save you $35 and More

TO TRANSPLANT EARLY VEGETABLE PLANTS.

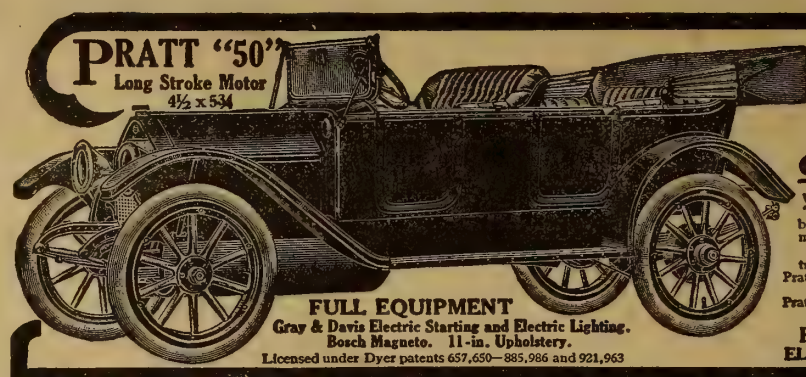
To the Editor of The Homestead:

To obtain the greatest amount of pleasure and profit from our gardens either for private or market use it is necessary that we use means to forward the maturity of the crops. This is done by the use of greenhouse, hotbed and cold frame in which to start the seeds and grow the plants and we also require some means by which the plants grown in these hotbeds and cold frames may be transplanted to the garden or field without unduly checking their growth or serious loss of plants. This is desirable even for those plants which admit of transplanting in the usual manner, but absolutely indispensable in transplanting melons, squash, cucumbers, etc. Clay flower pots can be used for this purpose, but are expensive, take up much room in a bed, are heavy and inconvenient to handle and easily broken. My experience with paper pots has not been satisfactory. They are tedious to put together and fill and will not endure the heat and moisture of a hotbed for three or four weeks.

For more than twenty years the market gardeners of this county have used a transplanting device that is the cheapest and most practical thing for the purpose intended I have ever seen. They are known as "dirt bands," and who first invented them I do not know, but they have been used locally for very many years and the use of them has been confined to this county which has become noted through the use of these "dirt bands," as one of the greatest early vegetable-producing sections of the country. Every experienced gardener knows that a melon, squash or cucumber plant is one of the most difficult of all plants to transplant; in fact, it cannot be moved in the ordinary way, as can cabbage or tomatoes, and amount to anything. They must be grown in some way so that they may be removed to the field without disturbing the roots to any extent.

Before moving to this part of Illinois, I used to start a few hills of early melons by planting the seed on small squares of inverted sod, or in small bags treated with linseed oil and filled with earth, neither of which was entirely satisfactory even for a few hills, and impractical on a large scale. With the use of these "dirt bands" many hundreds of acres of early melons and cucumbers are grown annually in this section, the seed being planted in hotbed and transplanted to the field by means of these "dirt bands" with so little check to the growth that a plant rarely dies or is stunted by the transplanting and without being wasted after being set in the field. They are very simple, merely strips of veneer cut from tough green wood, such as gum, and have four shallow grooves cut crosswise, so that they fold easily into a box four inches square and about the same in depth, the two ends lapping. They have no bottoms, which fact is really an advantage, as no jarring or disturbance of the roots is necessary in order to remove, as is the case with pots. The surface of the bed is made smooth and firm with the back of a spade, and the bands are folded and set in the frame until full. As each band is set in place, a slight pressure downwards with the hand forces the lower edge of the band into the soil a little, just sufficient to prevent the lapped ends spreading apart. When first used here it was the custom to fasten the ends together with small tacks, but this was found to be unnecessary, for after being in the frame some time the wood mildews and the ends will adhere without nailing. After the bands are in place they are filled nearly full with rich, mellow soil, the soil pressed down with the hand so that all vacant spaces will be filled, the seed planted and soil added until the bands are level full. When ready to transplant to the field, the bed should be well watered, so that the soil in the bands is pretty well soaked. The plants will endure removal better and will not require to be watered after setting out in the field unless the soil be very dry. The bands can be lifted from the bed by pushing the fingers under the band, but the quickest way and the one most generally used here, is to remove the end of the frame and use a spade for this purpose, pushing it under the band containing the plants, lift and set on a platform, wagon or sled. After hauling to the field the spade is again used to remove bands from wagon to the freshly prepared hill, the wooden band is slipped from around the ball of earth, moist soil is drawn around the plants and firmed down with a hoe. It is always best to remove the bands before drawing earth around the plants. The plants will generally live if the bands are left on, but by removing the bands the moist soil of the field can be brought into direct contact with the roots and the plants will grow off with scarcely a perceptible check to their growth. These dirt bands are not only indispensable in the growing of early melons, cucumbers and tomatoes on a large scale, but I also find them of the greatest value in the private garden. They can be used in starting early cabbage, Irish potatoes, corn, Lima beans, egg plant, cannas and other bedding plants; in fact, anything that requires transplanting. These bands hold enough soil to grow plants to a good size, tomatoes fifteen to eighteen inches, and melons or cucumbers until ready to vine. They are made by local box factories here owned by the truckers' associations and sell for a little over one dollar the thousand.

Martin Lewis Benson.



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"WARM SEASON" GARDEN CROPS.

"Warm season" crops should not be planted in the open until danger from frost is past, which in this section of the state varies from May 1st to 15th. String beans and sweet corn may usually be planted safely the first week in May. Tomatoes, melons and cucumbers may be planted safely about May 15th. Egg plants and peppers cannot endure even a chill without some injury and should not be placed in the open before June 1st.

A number of the crops mentioned above have a short bearing season and must be planted more than once if a supply is to be had throughout the season. From three to four plantings of radish, lettuce and spinach should be made in the spring at intervals of about ten days. About three plantings of peas should be made at intervals of two weeks, using a variety like Alaska for the first, and something like Pride of the Market or American Wonder for the later plantings. Cabbage should be planted three times. Probably the best varieties are Early Jersey Wakefield for the early crop, Early Flat Dutch or Early Summer for the midsummer supply, and St. Louis Late Market, Flat Dutch or Drumhead for the late crop. String beans should be planted every two weeks until about August 1st. The round-podded sorts will be found better in quality than the flat-podded ones. For early sweet corn, Early Cory or Golden Bantam are very good, but at the same time they are planted, there should be a planting also of a variety like White Evergreen or Country Gentleman, which are later but of excellent quality and large in ear. The later plantings should be of the superior varieties only and should follow each other at intervals of two weeks until about July 10th. In this way sweet corn may usually be had continuously from early in July until October. A second planting of cucumbers is often made about June 15th for pickles. Most of the successive plantings mentioned may be made on ground that has already grown one crop.

While the selection of good varieties, planting at the proper time, and attention to successive crops are very important matters in a vegetable garden, they would amount to little without proper care of the crops during growth. To start at the beginning of this phase of the subject, something should be said about the preparation of a seed bed for vegetables, for the best cultivation that can be given any crop is a thorough preparation of the soil before planting. Before plowing, the ground should be disked, or cultivated, and harrowed thoroughly. Plowing should be deep, but not deep enough to turn up the subsoil. Following plowing, the disk and harrow should be used freely again. This treatment will thoroughly pulverize the soil to the full depth of plowing and compact it enough to enable the plant roots to take hold readily. It is a mistake to have the soil too loose at planting time. I have used this method of preparing a seed bed for a long time, both in commercial market gardening and in experimental work and have always obtained better results from it than from any other method. For crops not planted early in the season the ground should be disked or cultivated occasionally to conserve the soil moisture until planting time has arrived.

Cultivation of the growing plants should begin as soon as the plants are above ground. Sometimes the rows are raked or harrowed before the plants appear to aid them in penetrating the crust and also to kill weeds that have started. In a general way, the best course to follow in tillage is to cultivate fairly deep and close early in the season, and to gradually cultivate shallower and stay further away as the plants become larger. Cultivation should take place after every rain and at intervals of a week or ten days during dry weather. It is always well to continue tillage until the crops are well along toward maturity. Many vegetables are thus tided through periods of drouth and resume active growth again when favorable weather occurs.—[C. E. Durst in Ill. Hort. Report.

TURNIP GREENS.

To the Editor of The Homestead:

To my mind nothing better for spring greens can be grown than the old-fashioned seven-top turnip. Several years ago almost every farmer had a patch of these turnips sown for the next spring's supply of greens and many still follow this practice.

For sowing the turnip seed the ground should be rich and well prepared as for the summer turnip and if the seed is sown in July or August the turnip will be well rooted and of sufficient size to withstand the freezing and thawing of the ground the following winter. However if the seed is sown later in the season the patch may be covered lightly with straw to prevent freezing, raking off the straw the first sunny days in spring.

These greens grow very fast, the tender leaves putting out early in the spring almost before any other green thing can be seen. These should be clipped off every few days to prevent the turnip from seeding. When other green things come in a part of the turnip patch may be allowed to seed and in this way a new growth will appear every spring. Turnip greens are healthful yet they have a peculiar, bitter taste which is very pleasant to all lovers of greens and they are a valuable addition to the bill of fare in the early spring time when the winter provisions are getting scarce.

When turnip greens are not available at this season of the year there are many wild plants growing up in the fence corners and fields which are very palatable when cooked for greens. Among these are wild mustard, wild lettuce, a tender, early smooth plant called "lamb's quarter" and stump greens, so called from growing in bunches around old stumps. These resemble the Irish potato top and many call them wild potato greens. Many other varieties of wild greens may be found by the thrifty housewife in the early spring and any of these are made much more palatable with the addition of green onion tops chopped up and added when cooking. Wild greens of any kind should be parboiled at first, adding the seasoning after being placed in another vessel.

Mrs. S. E. McCoy.

To encourage the breeding of horses suitable for army purposes, the United States Department of Agriculture has purchased fourty-four stallions which will be stood in communities in which horses are being bred and which are not already well supplied with privately owned stallions. These horses will be available for public service on liberal terms. Well gaited and sound mares will be bred free of charge provided the government is given an option on their foals at $150 when three years of age. The owners of the mares will be allowed to cancel this option at any time or by the payment of the service fee, which is $25 for mature stallions.

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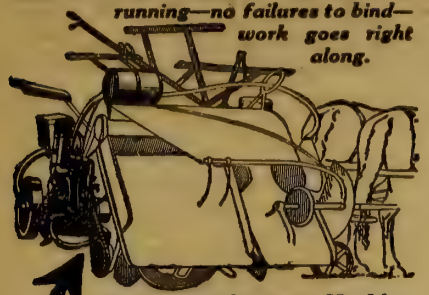

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NEW YORK STATE FARMS Write me your wants. Free list. Ogden's Agency, Walton, Delaware Co., New York.

When writing to advertisers please mention The Homestead.

LEGAL DEPARTMENT.

(Continued from page 11.)

A bill was presented to A by C and A refused to pay the same, claiming that the constitution and by-laws of the company do not provide for directories. It is not denied that the company gave B authority to have the directories printed, nor that it had knowledge of their being printed. Can C recover from the company for the printing?

Answer.—C can sue the company, and recover a judgment for printing the directories ordered by B. The company cannot avoid liability by claiming that the constitution and by-laws do not provide for directories. The managers of the company should know better than to make such a claim.

FORECLOSURE SALE—RIGHTS OF PURCHASER.

Mr. J. ————, Kansas.—I recently bought some town property at a foreclosure sale. The owner was not living on it, but had rented it to a tenant, who is in possession. (1) Who is entitled to the rent? (2) Have I a right to require the tenant to vacate the premises? (3) The insurance on the property holds till 1915 and the man who foreclosed promised to turn the policy over to me, but now says there is a question as to who is entitled to it, and declines to do so. Am I entitled by law to the policy? (4) Who should pay taxes during the time allowed owner to redeem from the foreclosure sale? (5) In case I pay the taxes, will the same be refunded to me in case the owner redeems? (6) Can I take possession of the property and make improvements, or should I wait until time of redemption expires?

Answer.—(1) The owner of the property is entitled to hold possession thereof during the redemption period of eighteen months and to receive the rents during that time. (2) You have not until the period of redemption passes, and you receive a deed. (3) You are not entitled to the insurance policy. (4) The owner should pay taxes, but if you do so you would be entitled to have amount refunded in case of redemption. (6) You cannot take possession of the property till time of redemption has passed and you receive a deed.

COMMISSION FOR SALE OF FARM.

A Subscriber, Washington, Iowa.—A listed his farm with B, a real estate agent, for sale at $125 per acre, till the first of March, 1913. On February 8th B sold the farm for $125 per acre, the buyer to pay A $1,000 on March 1st and the balance on March 1, 1913, A to have the use of the farm for the year 1913, the buyer to get 6 per cent on the $1,000, and A agreed that if the buyer would throw off said 6 per cent, A would pipe the water from the house to the barn at his own expense. This was all agreed to on February 8th, which was Saturday, and the parties agreed to close the deal accordingly on the following Monday, but A did not appear. He came in on Tuesday and claimed there was a misunderstanding and that the buyer must pipe the water and fix up the house and fence the yard before he would make the sale. This was altogether a different proposition from the agreement on Saturday and so the buyer would not agree to it, but was willing to carry out the original agreement. B was to have a commission of $150. A now wants B to cut his commission to $50, and then says he will close the deal. Is B entitled to a commission, and if so, how much?

Answer.—B is entitled to his entire commission of $150, because he produced a purchaser for the farm on the terms given him by A and agreed with the purchaser as to the terms of sale, and then backed out. B can sue A for the commission, and recover it by law.

FORECLOSURE OF MORTGAGE—INTEREST.

Mr. C. S. E., Denver, Iowa.—A bought a piece of land from B, paying part cash and giving B a mortgage on the land for the balance of the price. B gave A a clear deed to the land. In order to get all cash B, with the consent of A, turned part of the mortgage over to a loan company; the interest on the loan was to be paid semi-annually. (1) In case A fails to pay the interest, can the loan company foreclose the mortgage before it is due? (2) B owes the former owner of the land the amount of the balance of the mortgage, and to secure him he gave a second mortgage, signed also by A, the interest thereon payable semi-annually. A has a renter on this land. If A should fail to pay the interest on the second mortgage could the holder attach A's share of the crops?

Answer.—(1) Not unless there is a clause in the mortgage providing for foreclosure before the debt is due—but most likely there is such a clause in the mortgage. (2) The holder could not attach A's share of the crop unless he would swear to some cause for such attachment, but he could sue A for the interest due and unpaid, and get judgment therefor, and have A's share of the crops taken on execution to satisfy such judgment.

Get the Facts About the New Sears-Roebuck "Quick Hitch" Harness

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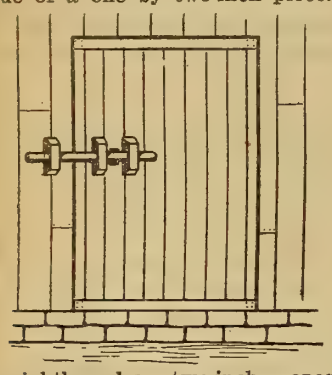
HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

HOMEMADE DOOR FASTENING.

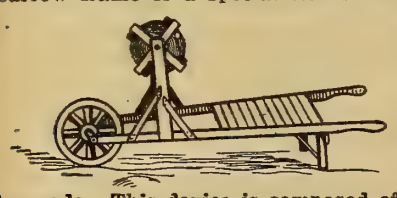
A secure fastening for stable or other outside doors may be constructed as follows: Take three two by twos shaped as shown in illustration, with a one by two inch cut in under side for slide to pass through. The slide is made of a one by two-inch piece. A



five-eighths by two-inch opening should be cut through the door just back of the slide and a four-inch pin driven through the slide, leaving a projection so that the door may be opened from either side

Loose Wire Roller.

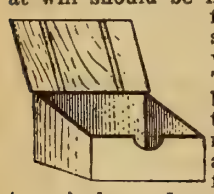
Every farmer has occasion to handle loose wire from time to time and a device for handling this will be found very convenient. One that is simple and easy to handle is shown in the accompanying illustration, which may be attached to the ordinary barrow frame or a special frame can



be made. This device is composed of an ordinary barbwire spool if one is at hand; if not, something similar will answer, which is placed on a support as shown herewith. Boards may be placed across the bottom of barrow to strengthen frame and to carry staples, hammer and stretchers. For convenience it is better to have the piece running through the hole in the spool fastened to it and holes bored in the top of the support, large enough to let it turn freely. Then attach a crank and one person can turn while the other pushes the barrow.

Salt Box.

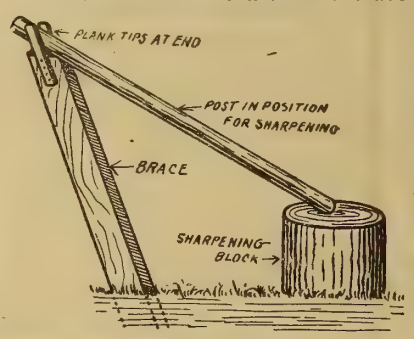
A salt box that keeps the salt dry and may be put up against the shed where the cattle can have access to it at will should be in use on all dairy farm. The one shown herewith is very easily made. The length of the box may be determined by the number of cattle and it should be fifteen inches wide, ten inches deep in front and fourteen inches deep in the rear, so that it will shed water and have enough drop to shut itself and stay shut when the wind blows. The lid must be a few inches wider than



the box. If a rounded hole is cut in edge of the center of the box, as shown, so that the cow can lick through the hole and taste the salt, she will lift the lid and get all the salt she wants.

Making a Post Sharpener.

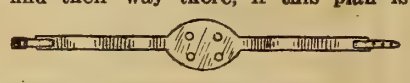
This is a great convenience when posts are sharpened by one man, says Mr. Clement White, a Kansas subscriber. The frame holds the post in position and all the maker has to do is to wield the ax. The brace



is a large post set solidly in the ground. It should be set in a leaning position. Nail pieces of planks on the end to make a receptacle for the posts which are to be sharpened to recline in. The amount of slant required will depend on the length of the posts.

Aiding Cleanliness at Milking Time.

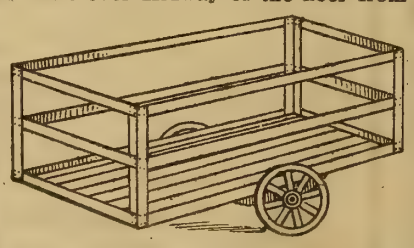
Soon the cows will begin to shed heavily, and it is impossible to keep all of the hairs from entering the milk during the milking hour. The following illustration, however, shows a neat little device for preventing most of the hairs from getting in the pail; indeed, there will be very few of them find their way there, if this plan is



adopted. The cut represents a strip of cloth long enough to pass around a cow's body and tie, the enlarged portion of it coming over the udder. The four holes are clipped in it to let the teats extend down so one can get hold of them in milking; yet the surrounding cloth prevents the myriad of loose hairs from dropping down into the milk pail; in fact, it just about bars dust, filth and everything else from entering except the milk. This strip could extend well up on the side of the cow, and be just that much better. If a buckle be attached to one end and a small strap to the other, it can be fastened and unfastened in much less time than by tying the ends of the strip of cloth.

A Portable Hog Chute.

Here is the handiest hog chute we ever have seen, and it can be arranged out of an ordinary chute, by taking a couple of cultivator or any other small wheels and putting them a little over midway of the floor from



the rear end. While any piece of strong timber will make a suitable axle for bearing up the chute, an axle from some old, discarded spring wagon or buggy will last practically a lifetime and prove much more satisfactory than a wood axle. When it is desired to move the chute, all that is necessary is to tilt the rear end and push the frame to the desired position, instead of the old, cumbersome method of tugging and dragging it around to where it was wanted. If the wheels are kept well greased or oiled, and if the chute is not too heavy, one can use it for moving heavy articles around that could not be carried by hand.

ROADS AND ROADS.

To the Editor of The Homestead:

A good deal is being said nowadays about roads. The reason is that roads lead somewhere, and if we are to reach any place we need roads. If we are to get there with ease and comfort we need good roads.

Good roads are easiest made with good material, but they may be made with common dirt if the right kind of road boss is in charge.

Some people can't think of good roads without macadam or cement or gravel even if there isn't any rock within a hundred miles nor gravel enough in a township to make a mile of road such as we dream of.

The only way to make roads in Iowa without bankrupting the farmers or the state is to make the best use of the material at hand. It isn't the cost of a thing that necessarily makes it serviceable. It is putting the right things in their proper relations to each other. Water and soil mixed together will never make a good road. Get rid of the water and the rest is easy.

Let us stop a bit and apply this good roads theory to life.

Education leads somewhere, therefore it ought to be the best to be had. Are we using the best of material at hand in education, or are we looking for far-off material at high cost and doubtful utility? Don't we lay a little too much stress on the smooth macadam of classical finish, and neglect to make use of the common material all

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Everywhere are auctions now,
Of many kinds and many breeds,
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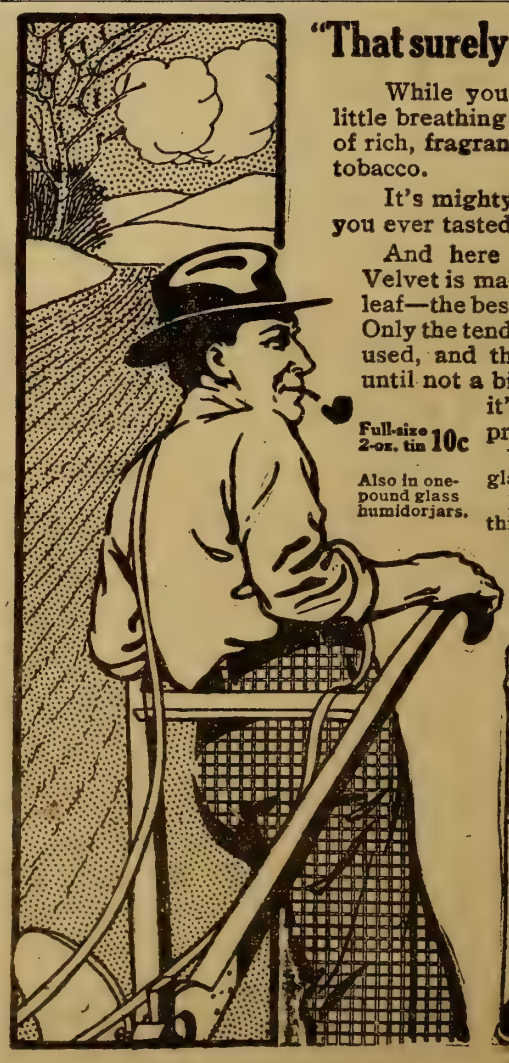

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about us that is just as serviceable in the making of a man? Isn't education getting a little top heavy for plain people when the boy is urged to learn four languages that will in all probability be of no use to him in after life? Of what use is smattering of foreign tongues when a student cannot express his thoughts in good English? With the right kind of "boss" cannot the country be made a highway to success and happiness? The country school is in keeping with the country road through an undrained slough district.

Habits may not be classed with roads, but they lead somewhere. Bad habits are like roads that are full of gullies and quagmires. They continually impede progress. When we have a call to go somewhere they handicap us. We can't occupy the best places because our habits advertise our weaknesses. They are like a pole stuck in a mudhole with the significant legend "go round." A cigarette face and a telltale breath are in keeping with the slough-district road. Good habits are like the road that is always known to be open and passable. The traveler doesn't have to take a pry along to lift himself out of a mudhole.

Environment has a good deal to do with the ability to get somewhere. A road across a bottom is liable to overflow and one in a hilly country is sometimes so gullied we can't use it. Not every boy is strong enough to break away from bad company. Better those associates and influences that lead away from the pitfalls, the sloughs of base desires and low ideals. Good surroundings are worth something in a moral and intellectual sense as well as in a road sense. A man cannot choose where and how he is to be born, but he may choose the people he wants for friends.

Courtesy is a good road to travel. It always leads to the right place. Courtesy is only kindness made agreeable. It requires no tax to keep it in repair, and the more it is used the better it becomes. It is the oil that finishes the way of life after industry and character have laid the proper foundations. Eugene Secor.

Growing Alfalfa in the Corn Belt

By A. A. Burger.

ALFALFA is slowly but surely winning its way into the corn belt. Significant of this is the increasing demand for information regarding its growth and the methods of its culture. Its feeding value and its fertility value are already well known. It will suffice, therefore, to present the methods of culture.

Alfalfa is a new plant in the corn belt. And as with every plant the nature and requirements of which are not well known, we will make failures and can expect them in the future, but by using the best knowledge which experience and practice has taught the number of these failures can be reduced. Alfalfa is grown in every state surrounding the corn belt; it may be seen growing on hilly clay lands, on rich, black loams and on blowing sands. Why can it not be grown on every farm?

There are some requirements that must be met before alfalfa will be a success. One of these is a well drained soil. The field should either have thorough natural drainage or be well tiled. It should not be subject to overflow nor should the water level come closer than three feet to the surface. In the former case the plants are killed for want of air, and in the latter root development is checked. In selecting the plat of ground the first essential is good drainage. To sow alfalfa on poorly drained soil is to invite failure and is a loss of time and money.

Within the last few years we have learned that alfalfa will not succeed on sour land. Seeded on such lands the plants may do well while young but early the next spring, and in many cases even the same fall, they begin to turn yellow and die. Many farmers have experienced these results. In many cases no doubt these failures could have been avoided by the use of agricultural lime. Lime is cheap, comparatively easy to obtain and where properly used will not injure the soil. Burned lime is ordinarily applied at the rate of one ton per acre. If raw ground stone is used two tons should be applied. Those who intend to sow alfalfa and do not know whether their soils are acid can well afford to take the time to find out. And those who already know their soils are acid can choose between failure and the use of lime in some form.

But it must not be inferred that the use of lime alone will insure success. Lime improves the physical condition of the soil, it sets free plant food which is necessary to the growing plant, but its important function in the growth of leguminous plants is that of making possible the growth of bacteria on their roots. For the successful growth of any plant belonging to this family, the particular kind of bacteria which they require must be present. Many soils, in fact most soils do not contain the bacteria necessary for the growth of alfalfa. Such soils, therefore, should be inoculated. Satisfactory results have been secured both by the use of artificial cultures and of soil. The latter can be obtained from successful alfalfa fields, or since the bacteria of alfalfa and sweet clover are similar, from the roadsides where sweet clover may be found growing. The soil is generally applied at the time of seeding and at the rate of about 300 pounds per acre.

It is generally understood that alfalfa requires manure, and there is a common opinion in some localities, that it will correct acidity and also serve to inoculate the soil. Unquestionably manure is beneficial even on acid soils, but the acidity of such soils can be corrected only by the use of lime. As regards inoculation, manure may carry the proper bacteria when produced from alfalfa or sweet clover roughage, but otherwise it could not be considered as an inoculating material. Manuring, however, should not be discouraged. Its use is beneficial on all soils especially when applied early in the season and thoroughly incorporated with the soil. Remember that inoculation and manure are both necessary.

In regard to the time of seeding several methods have been followed. Which is the best we are not yet prepared to answer definitely. The most of the seeding has been done in the late summer and the results so far indicate with the most successful results. The surest way of securing a stand would be to plow deep in the spring apply both manure and lime and keep the soil well cultivated by the frequent use of the disk. In Iowa the seed should be sown some time during the early part of August. Drilling is preferred to broadcasting, but where the latter method is followed half the seed should be sown in each direction. The seed is usually sown at the rate of twenty pounds per acre.

The method above outlined involves the loss of the land for the season. Many therefore prefer to grow some early crop such as potatoes or oats. In an ordinary season with plenty of rainfall the method of growing some early crop may prove satisfactory, but in case of prolonged dry periods there may not be sufficient moisture present to make it possible to work the land in shape. Alfalfa may also be sown in the spring with a nurse crop. More frequently, however, the seed is sown alone. The principal objection to this practice is that the young plants come in competition with the weeds. Late summer seeding avoids the weeds, but in this state it is well to bear in mind that seed sown later than the middle of August may not be able to withstand the winter. This has been the cause of the destruction of many fields during the past winter.

Too much emphasis cannot be placed on the preparation of the seed bed. Suffice it to say that the soil cannot be too well prepared. We should remember, however, that while alfalfa requires a well-pulverized seed bed the subsurface should be rather firm. This condition may be secured by the use of the roller and the harrow.

In obtaining seed the best, of course, is none too good. Oftentimes alfalfa seed is adulterated and many times contains objectionable weed seeds. As with any other crop, the best seed is generally the cheapest and it should be purchased only subject to inspection or where the purity and germination are known to be good.

The successful alfalfa grower will give heed to the details of its culture. He will avoid all risk. There are a few precautions which should not be overlooked and they are here restated that they may be more fully understood.

1. Alfalfa will not grow on wet or undrained land.
2. Alfalfa should not be sown on acid or sour land unless some form of lime has been applied.
3. Alfalfa land should be well manured.
4. Alfalfa fields to be most successful should be inoculated.
5. Alfalfa requires a carefully prepared seed bed.
6. Alfalfa should not be sown late in the fall and only good seed should be used.

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FINANCING THE FARMER.

Usually a solvent farmer has no trouble in buying whatever he wants on credit, says the Saturday Evening Post. Usually, too, he has no accurate idea as to what the credit he gets actually costs him. It has long been the rule, for example, to sell farm machinery on six months' to three years' time. So much farmers' paper of this sort is constantly outstanding that some ingenious Wall Street persons have formed a company for the purpose of issuing debentures against it, selling the debentures to investors on a basis netting about 6 per cent interest. The farmer, of course, pays that 6 per cent, and then something for the guaranty, something for costs of collection, something for bad debts.

The question is, How much altogether does he pay for the credit? How much—if any—better could he do if he financed himself and bought strictly for cash? So with the groceries, dry goods and professional services he habitually gets on credit. What does the credit really cost him?

Unquestionably buying on credit is a bad habit. It always involves counting unhatched chickens. It generally precludes the closest bargaining. There is no market in which the cash purchaser, taking it by and large, does not have the advantage.

Solvent farmers need not ask anybody to finance them. By co-operating they can finance themselves. If their notes are good for so many hundred thousand dollars' worth of implements, they are equally good for the same number of dollars in cash. We have no doubt that a farming community which financed itself and bought for cash would be considerably ahead at the end of five years.

The Question of Farm Credits.

THE question of agricultural credits has occupied a large place in the public mind during the past year. Farmers, bankers, editors, legislators and politicians have been discussing it. It occupied a large part in the program of the conference of governors last month at Richmond and was the occasion of a special conference of the governors with President Taft at the White House. In the state agricultural meetings in almost every state it is being discussed this winter. What is the occasion of this unusual interest in this subject and why has it come so prominently before the public at this time? Certainly farmers have never been more prosperous than they are at present. Why then has the question of rural credit come to the foreground. I believe it is because of their prosperity that the farmers are appreciating their lack of an adequate system of financing their enterprises. It is the prosperous business that needs capital and it is the prosperous farmer who can afford to borrow capital to make permanent improvements and to expand his business and by expanding his business I do not mean increasing the size of his farm. Our only idea of a farmer increasing his business in the past has been for him to buy more land. That is not what we need, but it is to increase our income on the land we have. During the last census decade, 1899-1909, farm lands in the United State increased 109 per cent in value and farm crops 80 per cent. These facts spell prosperity and a new outlook to American agriculture. But it takes more capital to run a farming business under the changed conditions and it costs more to operate a farm now than it did in the past. But where is this capital to be secured, and on what conditions may it be borrowed? If it is a short-time loan and your financial standing is good we have a splendid system of country banks through which you will be able to make your loan at a fairly reasonable rate of interest. If it is a long-time loan to make some permanent improvement, such as building a barn, or silo, draining a field or clearing and improving land, the facilities are not so good. If it is a loan secured by mortgage on your farm it will probably have to be made from an insurance company, a private individual or a private or state bank, and will be for three or five years at longest. If the loan is made through an agent there will be a commission of 2 to 5 per cent to pay in addition to the interest, and when the loan expires it will have to be renewed, and probably a renewal of commission as well.

We are inclined to scoff at the agriculture of Europe, and to boast of American agriculture as the foremost in the world. But the facts of the matter are that the European nations have us so far beaten in their methods of financing their agriculture that we are just about a hundred years behind the times. The European farmers not only get their loans at lower rates of interest than we do, but they get them for long periods and pay them back in small annual payments. The rates of interest paid are from 4 to 4½ per cent, and the loans run from thirty to fifty years, during which time they cannot be called in or the interest rates raised.

I speak of the German rural credit system particularly because I had an opportunity to study and observe it last year. The farmers of central Germany this past year were making their loans and paying 5 per cent. Of this 4 per cent applied as interest on the principal, ¼ per cent to cover the expense of the association through which the loan is made, and ¾ per cent applies as payment on the principal. By paying 5 per cent for between forty and forty-five years the entire loan will be paid. Compare this with our farm loans that bear 5 to 6 per cent interest and in addition, commission to some agent for getting the loan for us; that have to be renewed at least once in five years and with no provision of paying them back gradually by annual payments with the interest. Farther west the rates of interest increase to 7, 8 and even 10 per cent in the newer sections. This difference in rates of interest is not because money is more plentiful in the European countries than it is in America, because it is not, and interest rates in general are not so low in Germany as in America if you take the price at which government bonds sell in the respective countries as your basis of comparison.

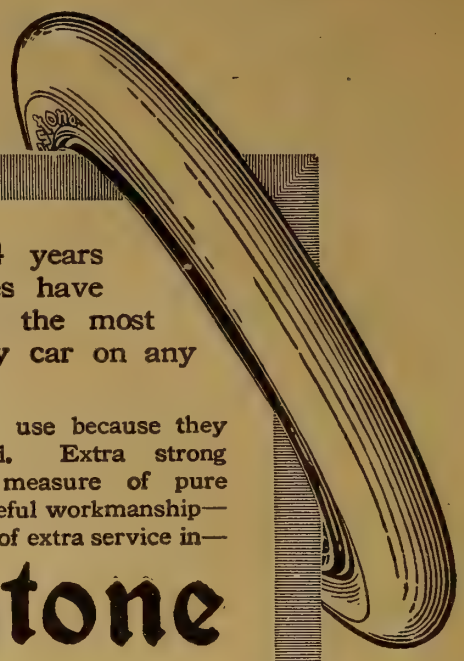
The favorable terms on which farmers are able to secure their capital is the direct result of rural credit systems that have been organized in the different countries. Strictly speaking there is no European rural credit system, because each country has its own system more or less peculiar to itself. In France, for example, agricultural credit is furnished largely by loans made by the government and handled through privately organized stock companies. In Germany, on the other hand, the rural credit system is based on the co-operation of borrowers and not on government subsidy.

The best illustration of the workings of the German system is seen in the co-operative land mortgages associations (landschaften). These organizations show what can be accomplished by making farm mortgages negotiable and by borrowers organizing and making their loans as companies rather than as individuals. The associations are made up exclusively of farm owners who have loans on their farms. To be a member a man must own farm land and have a loan on it. In making a loan a farmer joins such an association and is then entitled to borrow to two-thirds the assessed value of his farm by giving first mortgage. The association, however, does not have the money to make the loan and does not give the farmer money in exchange for his mortgage, but bonds of the association of equal amount to the mortgage. These he may sell or have sold through the association and receive the proceeds. The association simply takes the individual mortgage of the farmer and issues in place of it bonds that are secured by all of the property and all of the mortgages held by the association. They thus substitute collective credit for individual credit and that is all there is to it. The individual mortgage of Herr Schulze is not negotiable because he is not known outside of his local community, but when the Saxony Land Mortgage Association gives its bonds for $5,000 in exchange for his mortgage for the same amount his security instantly becomes negotiable and sells practically as well as a government bond. Why? Because the Saxony Land Mortgage Association is known to be absolutely sound financially, to never have defaulted a bond or failed to pay interest on them when due. During 1912, in fact, the bonds of the co-operative land mortgage associations did not sell over one-half to three-fourths per cent below the German government bonds.

Every loan made through a co-operative land mortgage association must be paid back on the amortization principle and with the first and every payment of interest the farmer makes a small payment which applies on the principal, but he also has the option of paying off his loan all or in part at any time. But after his loan is once made he knows that it cannot be called in, will not have to be renewed and that the interest rate cannot be raised so long as he keeps up his annual payments. Consequently he can go ahead and make permanent improvements from which his returns will come in slowly. The popularity of this system is shown by the fact that the German farmers have nearly $1,000,000,000 of farm loans made through these institutions. There is nothing new or untried about these co-operative land mortgage associations. They are the oldest rural credit institutions in Europe; the first one was established 143 years ago. During all of this time there has never been a bond defaulted, or a single loss through them, and at times their bonds have sold higher than German government bonds.

In all forms of co-operative business the German farmers are far ahead of us, and at the present time there are over 24,000 co-operative agricultural associations in Germany. But, notwithstanding their familiarity with the principles of co-operation and their long experience with the co-operative land mortgage association, their rural credit is not all organized on a co-operative basis. Private stock companies are organized and chartered to do a land mortgage business. They issue bonds in exchange for mortgages, just as the co-operative associations, and they make loans for long periods amortized by annual payments with the interest. The rates of interest at which their loans are made compare favorably with the co-operative associations with which they must compete for business. Their business, however, is confined largely to real estate and of the $2,500,000,000 of outstanding loans that they now have, only about 2 per cent of them have been made on farm real estate. The co-operative land mortgage associations (landschaften), on the other hand, loan exclusively on farm real estate.

For American conditions, unused as we are to doing co-operative business, I am inclined to think that the private stock company is more likely to succeed as a rural credit institution than the purely co-operative association. There is no question that the co-operative association is ideal and it is simply a question whether we can attain our ideal. Recently there has been organized at Joliet, Ill., a private stock company land mortgage association under the Illinois laws to make long-time loans to farmers on the amortization plan. They make loans on Illinois farm land for thirty years, and by paying 7 per cent



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or the face of the loan semi-annually the loan will be paid off in thirty years. On a loan of $1,000, for example, a farmer pays $35 every six months, or $70 per year, and by paying at this rate for thirty years he pays off his loan and has the privilege of paying it in part or all of it at any time. Such a system avoids the necessity of any renewals and gives all of the advantages of the German system except that the interest rates are not quite so low.

The German farmers have been no less successful in providing personal credit for themselves than they have real credit. By a most elaborate and extensive system of co-operative rural banks numbering now over 16,000, they have developed a system that provides the German farmer short-time loans for working capital at 4½ to 5 per cent interest. These rural banks are co-operative savings and loan institutions that receive the farmers' and rural populations' saving deposits for which they are paid interest usually about 1 per cent less than the current rates. They are small institutions, averaging only about 100 members and doing business in small areas. They are organized into central banks which serve the individual farmers; that is, the central banks receive the deposit and make loans to the rural banks. There are two fundamental things concerning these banks that should be emphasized. 1. They keep the money in circulation in the rural districts and prevent it concentrating in the large cities. 2. They are not operated to earn profits for stockholders, but to provide working capital to the members at the lowest rate of interest possible. There is one feature of them, however, that I do not believe would be regarded with favor in this country. For the most part they are organized on an unlimited liability basis. That is, each member is liable for all the property he has to meet the debt of the bank of which he is a member. In the more prosperous agricultural sections this principle is being abandoned and the rural banks are being organized on the limited liability basis. The tendency is not, as some authorities assert, toward the unlimited liability basis in the rural banks, but rather the opposite.

We need in this country not only a "back-to-the-land movement of the people," but a "back-to-the-people movement of our farm lands." The increase in farm tenancy in many of our best agricultural sections amounting in many cases to over 50 per cent has resulted in demoralizing social, educational and spiritual conditions. To solve this situation we need a rural credit system that will provide credit for the strong, industrious, honest, ambitious farmer to get started in farming. How is the young farmer in Ohio at the present, who lacks capital, but has every other essential for success to get started? Where can he invest his money to get over 4 per cent interest, and where can he borrow at less than 6 per cent, if at all? It has been said of the rural credit banks of Germany that they have capitalized the farmer's character, industry and health. That is, he is loaned capital for specific purposes even though he does not have any property to give as security, if he is known to be honest, industrious and capable. The same thing is done in this country frequently by individuals, but we have not regularly organized institutions for doing it. To my mind the most difficult feature of a rural credit system for American conditions is the furnishing of personal credit to the "landless man." It is also one of the most important because there are thousands of vigorous, sturdy young farmers without land and without capital whom we need in our agriculture. Men of the same class as those to whom the government gave homesteads a generation ago. Our public lands are gone and the outlook is not bright for the young farmer without capital to become established.

The agitation for a better rural credit system in America is no passing demand that will be superseded by something else next year. It is fundamental to a permanent system of agriculture. With an investment of over $40,000,000,000 in agriculture and an indebtedness of over $6,000,000,000, American farmers are beginning to awaken to the fact that they are paying from $100,000,000 to $125,000,000 more interest each year than would be necessary if they had their credit system properly organized. We talk about economy in marketing and distributing farm products. But where is there the opportunity to make the saving that there is in marketing farm securities? There is no better security than arable farm lands, but until the mortgages are converted into negotiable securities the farmer borrowing on his farm mortgage is handicapped just as much as a farmer a hundred miles from a shipping point is, in marketing his wheat crop. He is too far from the market. It costs too much to get into the channels of trade.

While it is not likely that any European rural credit system will exactly fit American conditions, yet they have accomplished certain things that must be accomplished by any successful system that we may adopt.

First, they provide for long-time loans that do not need to be renewed, but may be paid at any time before the last payment is due.

Second, they provide for the payment of the loans on the amortization plan.

Third, they make farm mortgage securities as negotiable as government or municipal bonds.

Fourth, they secure as low rates of interest as are secured by any industrial corporation or company.

And finally, they are under strict government supervision and are operated by and for the farmers and not for or by any other class.—[Address of Prof. H. C. Price before Ohio Board of Agriculture.

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News of the Sale Ring

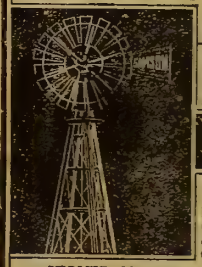
The Walter Roberts Sale.

The dispersion sale of the Walter Roberts herd of Aberdeen Angus cattle held at Atlantic, Iowa, on April 8th, proved a splendid drawing card, and the attendance was exceptionally good from all parts of the country. The cattle were in good breeding condition and many of the females had calves at foot. This sale proved conclusively that the demand for Angus cattle is growing stronger and this sale and others held recently have brought out more new buyers than have been seen at the sales in many years. The top of the sale was the two-year-old bull, Botna Valley Blackcap and he was purchased by Godfrey Dreher, Audubon, Iowa, at $500. The old herd bull, Deceiver, went to Frank Bowers, Walnut, Iowa, at $305 and he was a bargain at that price. The top of the females was Erica 12th of Lincoln Park, with a bull calf at foot by Deceiver and she went to G. C. Williams, Hepburn, Iowa, at $330. Forty-nine females averaged $183.37 and eleven bulls made an average of $184.54. The average on everything was $183.58 and it was a splendid sale. Cols. Igo and Kraschel cried the sale and both did excellent work. Below we list those selling for $100 and above:

FEMALES.

Blackcap Echo, calved October, 1907; Caldwell & Son, Burlington, Junction, Mo. $285
Botna Valley Blinkbonny, calved December, 1911; Godfrey Dreher, Audubon, Iowa 185
Blackbird McHenry 52d, calved February, 1903; P. H. Donohoe, Holbrook, Iowa 275
Blackbird Bestever, calved April, 1910; J. W. Norton, Fontanelle, Iowa 295
Blackbird of Cherokee 16th, calved January, 1904; B. M. Painter, Lewis, Iowa 250
Brunetto, calved January, 1909; G. C. Williams, Hepburn, Iowa..... 195
Edgewood Blackberry 2d, calved December, 1907; W. H. Hurdle, Holly Springs, Miss..... 280
Blackbird Missie, calved February, 1905; B. M. Painter..... 275
Brunetta 3d, calved May, 1911; Yardy Bros., Malvern, Iowa..... 150
Blackbird 49th, calved September, 1907; C. J. Martin, Adaza, Iowa.. 210
Bonnie Boquet E., calved February, 1909; F. E. Cowden, Riverton, Iowa 190
Blackbird Missie 4th, calved October, 1910; Fred Long, Marne, Iowa 235
Blackbird of Cherokee 40th, calved May, 1910; W. A. Moffitt, Mechanicsville, Iowa 200
Botna Valley Bertha, calved December, 1911; Yardy Bros..... 135
Blackcap of Longbranch 3d, calved January, 1911; P. J. Donohoe.... 112
Blackberry 8th, calved January, 1909; C. J. Martin..... 240
Black Gertrude, calved December, 1905; G. C. Williams, Hepburn, Iowa 205
Black Gertrude 2d, calved November, 1909; Belen & Smith, Clarinda, Iowa 185
Botna Valley Bonnie, calved May, 1911; Bolen & Smith..... 170
Imp. Elnora, calved December, 1904; Evans & Son, Ottumwa, Iowa 260
Envite, calved June, 1908; W. A. Moffitt 170
Erica 12th of Lincoln Park, calved June, 1908; G. C. Williams..... 330
Enchantress 7th, calved November, 1909; Caldwell & Son..... 315
Botna Valley Eventime, calved Februray, 1911; Belen & Smith.. 220
Eribena, calved May, 1901; W. A. Moffitt 155
Botna Valley Envite, calved January, 1911; Yardy Bros..... 175
Eventime, calved August, 1907; Frank Bower, Walnut, Iowa.... 235
Imp. Porsephone of Stenhouse, 2d, calved February, 1905; Fred Long 195
Peruna 2d, calved March, 1910; F. E.Cowden, Riverton, Iowa..... 155
Pretty Ermine 4th, calved, May,

LET THE WIND PUMP YOUR WATER FOR NOTHING



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Big Doll For You

D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

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65c Here's an opportunity you can't neglect, Galvo brand high grade Rubber Roofing.

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Figure out how much you need and send in your order today. This introductory price applies on 1 ply with 2 ply and 3 ply as noted.

108 Sq. Ft. Two Ply 80c 108 Sq. Ft. Three Ply 95c

We can also save you big money on harness, paints, silos, water troughs, machinery, etc. Write for low, net factory-to-consumer prices.

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Simply tap sockets down into soft cement. No sills to rot. No toe-nailing to rust. Fits *any* upright. For Cribs, Granaries, Barns, Sheds, Garages, etc. Write today for FREE Booklet. Learn how to make upright supports *everlasting*. Get book—"How to Build Cement Floors and Foundations."

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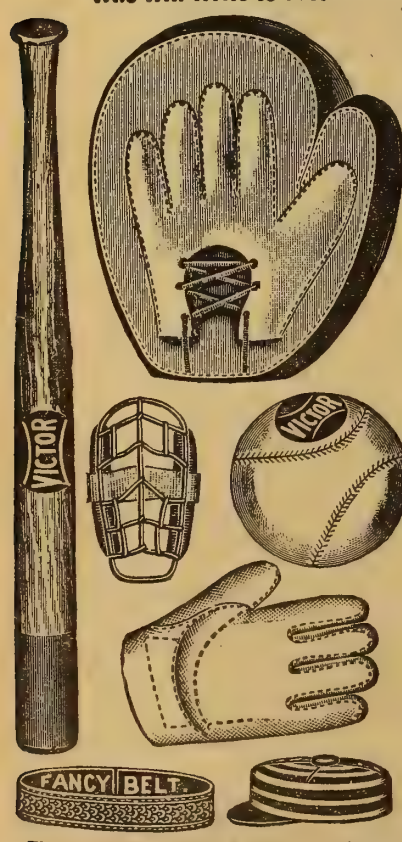
Free To Boys

I Have a Glove, Mitt, Mask, Ball, Bat, Cap and Belt for Every Boy Who Will Write to Me.



There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 304 Popular Building, Des Moines, Iowa.

1907; G. E. Williams	165
Botna Valley Ermine, calved April, 1911; W. A. Moffitt	130
Atlantic Lelia, calved May, 1908; W. H. Hurdle	200
Maplehurst Queen 17th, calved November, 1903; Wm. Williams, Atlantic, Iowa	215
Baby Queen Mera, calved September, 1906; W. A. Moffitt	150
Atlantic Lady Auburn, calved May, 1906; F. E. Cowden	115
Botna Valley Promise, calved August, 1911; Ernest Stevens	165
Atlantic Heatherbloom, calved January 1910; F. E. Cowden	155
Heatherbloom 17th, calved, September, 1907; W. A. Moffitt	195
Eric's Queen, calved March, 1910; F. W. Heers, Prairie City, Iowa	155
Chamber's Carroll, calved October, 1902; Godfrey Dreher	175
South Oaks Elena, calved September, 1900; J. J. Boxen, Atlantic, Iowa	115
Botna Valley Duchess, calved December, 1910; W. A. Moffitt	155
Botna Valley Rose, calved May, 1911; F. E. Cowden	115
Botna Valley Lucy, calved March, 1911; F. E. Cowden	135

BULLS.

Deceiver 84667, calved September, 1905; Frank Bowers	305
Botna Valley Eurotas 156907, calved July, 1911; E. S. Murphy, Sidney, Iowa	135
Botna Valley Evasor 162366, calved February, 1912; J. F. Brady, Atkinson, Neb.	105
Botna Valley Blackcap 152538, calved January, 1911; Godfrey Dreher	500
Botna Valley Black Peer 158585 calved March, 1911; Hunter Bros., Neola, Iowa	185
Botna Valley Buskin 162358, calved December, 1911; L. R. Frost, Avoca, Iowa	125
Black King, calved May, 1911; Yardy Bros	165
Botna Valley Black Knight 162997, calved January, 1912; Ed Enken, Wiota, Iowa	155

SUMMARY.

49 females	$ 8,985; average	$183.37
11 bulls	2,030; average	184.54
60 cattle	11,015; average	183.58

Shallenberger's Short-horn Sale.

One of the worst snow storms of the season and one of the worst ever recorded in Nebraska for the time of year was encountered on April 10th, the day for the sale of Short-horn cattle made by A. C. Shallenberger, Alma, Neb. The sale was held however, and a very satisfactory average was made, considering the very stormy weather and the fact that the rain which fell for two preceding the snow storm kept many away that had planned on coming in automobiles. This manner of travel is very popular in central Nebraska and is a big factor in the pure-bred auction in the territory mentioned. The cattle were presented in only fair condition and more condition would probably result in higher prices. The top price of the sale was $400 at which price R. C. Firme & Sons, Hastings, Neb., secured the very choice young bull, Watchword, a son of Imp. Scottish Sentinel and out of Imp. Maude 44th. This is a beautiful young bull, of excellent pedigree and goes to one of the fine herds of the state. E. W. Cossgrove & Son, Farnam, Neb., were among the top buyers of the females, as well as among the heaviest buyers. In this auction Mr. Shallenberger has distributed a lot of good cattle and at such prices that they must be good investments for the purchasers. Col. F. M. Woods did the selling and added still another to his long list of successful sales. The report follows:

COWS.

Maud 55th, calved January 1911 and c. c.; Byron Parrish, Alma, Neb.	$250
Evangeline 2d, calved December 1906, and c. c.; Frank Freeouf, Wilber, Neb.	180
Eventide, calved March 1905, and b. c.; Barney Kank, Alma, Neb.	215
Blosson Louan, calved March 1908 and c. c.; E. W. Cossgrove & Son, Farnam, Neb.	240
Helen Abbotsburn, calved May 1906 and b. c.; Finney Bros., McCool, Junction, Neb.	205
Sub. for Golden Cherry 2d, Joe Alters, Alma, Neb.	100
Flower Girl, calved May 1909; G. R. Young, Omaha, Neb.	155
Lady Allen, calved March, 1911; G. R. Young	220
Spring Valley Rose, calved January, 1908; P. M. Everson, Alma, Neb.	125
Maud 4th, calved March, 1910; G. R. Young	150
Evening Star, calved May, 1911; Frank Freeouf	170
Lovely Lady, calved April, 1911; G. R. Young	130
Cherry Blossom, calved April, 1911; Frank Freeouf	140
Queen of the Vale, calved September, 1912; Geo Wertz, Alma, Neb	190
Maud 58th, calved September, 1911; H. H. Kuper, Humboldt, Neb.	160
Secrecy 2d, calved June, 1911; Frank Freeouf	160
Starshine, calved November, 1911; Frank Freeouf	135
Mignonette, calved August, 1911; Frank Freeouf	115
Golden Gift, calved April, 1911; George Lyon, Nelson, Neb.	165
Belle of the Border, calved May, 1911; Frank Freeouf	145
Lady Goodness 5th, calved September, 1908; George Lyon	150
Nellie Waterloo, calved July, 1908; George Lyon	145
Crown Rose, calved March, 1910; C. M. Babbitt, Alma, Neb.	200
Goldie 36th, calved May, 1907; P. M. Everson	120
Choice Duchess, calved July, 1911; Frank Freeouf	160
Viola, calved July, 1910; Byron Parrish	115
Lady Rose, calved July, 1909; P. M. Everson	135
Mary Anne, calved August, 1905; Bert Moore, Bartley, Neb.	120
Scotch Duchess, calved May, 1911; G. R. Young	120
Orpha, calved June, 1910; A. L. Middaugh, Alma, Neb.	100
Queen Esther, calved June, 1911; A. L. Middaugh	100
Jessie, calved June, 1911; A. L. Middaugh	100

BULLS.

Star Attraction, calved May, 1911; Finney Bros., McCool Jct., Neb.	280
Royal Peer, calved April, 1910; Bert Moore, Bartley, Neb.	240
His Lordship, calved December, 1911; G. R Young	220
Allendale, calved June, 1912; E. W. Cossgrove & Son	130
Paymaster, calved June, 1911; Geo. Lyon	145
Good Robin, calved February, 1912; George Peckman, Crete, Neb.	165
Ashbourne Knight, calved May, 1912; C. M. Babbitt	110
Watchword, calved May, 1912; R. C. Firme & Sons, Hastings, Neb	400
King of Diamonds, calved January, 1908; J. H. Harper, Bennet, Neb.	395

SUMMARY.

32 females	$4,915; average	$153.25
9 bulls	2,085; average	231.25
41 head	7,000; average	170.75

One point worthy of mention in regard to the 1912 apple crop was the unusually large size of the fruit of certain varieties. Twenty-ounce apples that exceeded the weight which gave the variety its name were not uncommon, and many Baldwins were so overgrown that it would puzzle an expert to classify them if he did not know that they grew on Baldwin trees. The latter part of the season was highly favorable to the development of late winter fruit. Nova Scotia apple growers have organized a co-operative fruit packing and marketing association, which will handle upward of 600,000 barrels of the past year's crop. It is now up to the orchardists in the eastern part of the United States to fall in line and do their share toward the development of a systematic arrangement for disposing of the enormous apple crops to be marketed when the young orchards come into bearing.

Get Galloway's Startling Price

Slashing Offer on Harrows and Harrow Carts

I am making the most startling, the most amazing price slashing offer ever made on harrows and harrow carts. Write me at once—or order right direct from the amazingly low prices given here—act quick. Sold on 30 days' approval test. Backed by ***$25,000 bond.***

Get My Big FREE Book Now

Galloway's Prices Are Lower Than Dealers Pay in Car Load Lots

Yes, Sir,—I will sell you a genuine Galloway Guaranteed New All Steel High Wheel Harrow Cart for $5.50, and a Galloway Guaranteed All Steel Flexible Lever Harrow as low as $11.00—both for $16.25—less than your dealer would have to pay for inferior articles in car load lots! Last year we sold thousands of these carts and harrows. This year we are going to sell three where we sold one before. The price will do it. Here is your chance—act quick.

My Particular Hobby

This Galloway Harrow Cart is a pet of mine. I made my start with Harrow Carts—sold 4,400 the first year, 7,200 the second year and have been selling thousands every year since at prices that smashed all competition.

My All Steel Harrow Cart is different—original—with special patented features that put it in a class by itself. It will successfully follow any harrow without interferring with levers and sections, and at the same time will turn perfectly without changing position of driver in seat. It is closely connected to the harrow and has high spring seat that raises operator up out of the dust. Heavy steel angles; axles have oscillating arms made of solid steel bars; dust proof boxes.

Prices F. O. B. Waterloo or Kansas City

N1993—New High Wheel Harrow Cart, 30-in. wheels; dust proof boxes; weight, 80 lbs.; price **$5.50**

N1994—New High Wheel Harrow Cart, 38-in. wheels; dust proof boxes; weight, 85 lbs.; price..... **$6.25**

You can't afford to walk behind a harrow, when you consider the saving in time and shoe leather my Harrow Cart makes you. It means at least one hour a day besides the greatest saving in labor for the money ever offered a farmer.

World's Greatest Harrow

Since developing my Harrow Cart, I have perfected Galloway's New All Steel Flexible Harrow—the only harrow made that can be adjusted with levers. For years when I traveled on the road I sold a wooden flexible harrow to dealers and it was a good one, but it didn't have any levers. It was not adjustable. It was wooden, which naturally in time, exposed to the weather and elements, would soon give out and warp out of place. I sold these harrows at wholesale to dealers at $1.00 per foot. I am now selling my new Galloway All Steel Flexible Harrow direct to the farmer for less money than they used to pay for the old style wooden harrows.

Some Special Features

On account of its flexibility, the teeth of this harrow go down into the hollow places, follow close to the ground, go into all the low places and over the ridges without skipping a foot of space. Each section and each bar is entirely independent of the other; no side motion, no danger of one section riding on the other. With the teeth slanting back, this harrow is ready for corn stalk ground, smoothing or weeding grain ground, etc. When teeth are straight up it is ready for pulverizing fall plowing, and on account of the oscillating movement the teeth dig and tear up the ground similar to a cultivator.

Harrow Prices F.O.B. Waterloo and Kansas City

N5065—2 Section Harrow (80 teeth); Width, 11 cut ft.; Weight, 198 lbs.; price..... **$11.00**

N5066—3 Section Harrow (120 teeth); Width, 16½ cut ft.; Weight, 305 lbs.; price..... **$16.50**

N5067—4 Section Harrow (160 teeth); Width, 22 cut ft.; Weight, 432 lbs.; price..... **$22.00**

Special Combination Prices

If you order one of these New Harrow Carts and New All Steel Flexible Lever Harrows together, we will make you the following special combination prices F. O. B. Waterloo factory or Kansas City.

N1868—30-in. Cart and 2-section Harrow.... **$16.25**
N1869—30-in. Cart and 3-section Harrow.... **21.60**
N1870—30-in. Cart and 4-section Harrow.... **26.95**
N1878—38-in. Cart and 2-section Harrow.... **16.75**
N1879—38-in. Cart and 3-section Harrow.... **22.00**
N1880—38-in. Cart and 4-section Harrow.... **27.45**

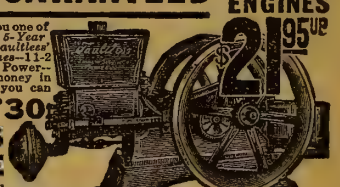
I would like to see one of these High Wheel Harrow Carts and All Steel Flexible Lever Harrows on every farm in this country. You can safely order direct from this announcement, or if you prefer I will send you

Galloway's Big Bargain Book FREE

Shows not only full descriptions of my Harrow Carts and All Steel Harrow, but also over 1,000 other wonderful bargains in everything for farm, home and family use. Send for your copy of this book. It is FREE. A postal card brings it at once. Write today. Address: 331

WM. GALLOWAY, Pres., Wm. Galloway Co., 107 Galloway Station, Waterloo, Iowa

FIVE-YEAR **GUARANTEED** GASOLINE ENGINES



We will send you one of our high-grade *5-Year Guaranteed "Faultless" Gasoline Engines*—1 1-2 to 12 Horse Power—without any money in advance, and you can

$21.95 UP

USE IT 30 DAYS FREE

at our risk. You can test it as severely as a Gasoline Engine can possibly be tested, and after the 30 days are up, if you find the engine unsatisfactory for any reason, return it at our expense. Our prices are lowest.

We Beat Them All Think of It, only $21.95 for a 1½ Horse Power Engine

Correspondingly low prices for 2 1-2, 4 1-2, 6, 8 and 12 horse power engines. Anyone can run them. Simply constructed. No complicated parts. Operate as perfectly, wear as long and develop as much power as any engines made, regardless of name, make or price. Possess every good feature of every high grade engine and many features controlled alone by us. To illustrate: Four-cycle; water jacketed; hopper cooled; make and break ignition, speed control lever; governor controls fuel supply; uses fuel according to load; simple, positive mixing device. If interested, write and say: "*Send me your big, free, Special Gasoline Engine Catalogue,*" and see for yourself all about our wonderful 30-day free trial without any money in advance. The big, fine pictures of all our Gasoline Engines and our marvelously low prices. Write today.

5-Year Guarantee

Farm Implements For All Purposes For All Sections

Latest Improved Standard Makes. Fully Guaranteed. Sent on Free Trial. Half your dealer's price. Walking plows, $2.00 up; Sulky plows, $24.50 up; Disc Harrows, $13.00 up; Cultivators, $2.60 up; Grain Drills, $10.35 up; Corn planters, $8.10 up; Mowers, $33.00 up; Feed cutters, $2.25 up; Feed grinders, $8.70 up, and every other kind of farm implement at proportionately low price. If interested, write and say: "*Send me your big, Free Farm Implement Catalogue,*" and see our wonderful low prices and great liberal free trial offer.

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Manure Won't Rot This New Farm Shoe

Made of special leather. Tanned by special process. A shoe with style, perfect fit, but proof against manure and barnyard acids.

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

THE MOISTURE QUESTION IN INCUBATORS.

To the Editor of The Homestead:

Perhaps there is not a single question connected with incubators and incubation that has called forth as much discussion as the subject of moisture. It is not the purpose of this article to set down the views offered as the only correct solution of the question, but merely to offer a few ideas gathered from practical experience. If there are any that disagree, we would be pleased to hear from them and discuss their views in these columns.

The inventors and students of artificial incubation have been led to believe that moisture was required during the period of incubation, by observing the hen. In the wild state, the hen on leaving the nest in the early morning naturally came in contact with the wet grass. When she returned to the nest, the moisture was unconsciously applied to the eggs.

Still another observation showed that the hen laid her clutch of eggs on the ground, which always afforded a generous supply of moisture at the season of the year when the eggs were hatched. This also demonstrated that the under side of the eggs was several degrees colder than the upper side.

These observations on the question of moisture have caused a great deal of discussion. Leading authorities have taken sides on either side of the question and still it seems to be unsettled.

We have found, other conditions being equal, that where moisture is applied the best results are obtained. For some time it has been thought that the moisture should be applied during the last week of the incubating period, but this is a mistaken idea.

The object of those who advocate the application of moisture during the third week is to make the chick "sweat," thereby helping it to liberate itself from the shell. This may be true, but the disadvantages are of far too great importance to warrant its use.

The greatest disadvantage is the great strain on the chick. Everyone acquainted with incubators will tell you that the evaporation or shrinkage of the contents of the egg is greater in the third week than during any other time. Such being the case, the tendency of the application of moisture at that time would be to increase the evaporation rather than decrease it.

It has been our experience in every case where the moisture was applied the third week that the chicks hatched were smaller and weaker in vitality than where it was applied during the first two weeks or not at all.

It is our belief (we may be wrong) that if it is necessary to apply moisture at all, it should be applied during the first week rather than at any other time during the incubating period. Why? you ask.

In the first place, we must determine the importance of the first week in incubation. It is perfectly safe to say, other conditions being equal, that everything is determined by the first week and the methods used then.

The first week is by far the greatest and most important of the whole hatching period. You must keep the temperature down, for the growing life germs in the eggs is very delicate and too much heat is apt to burst a blood vessel and kill the germ. On the other hand, you must be very careful to prevent evaporation of the contents of the egg. How prevented? By a liberal supply of moisture the first week you will prevent the above-mentioned evils. But, you say, if moisture in the third week will hasten evaporation why will it not also hasten it the first week? The answer is because the egg ordinarily will evaporate very little the first week. That being the case the application of moisture will have a tendency to conserve the contents of the egg rather than hasten the evaporation, but, if the contents were rapidly evaporating, moisture would only hasten it.

Therefore, by a liberal application of moisture the first week you will not only conserve the moisture in the egg, but you will also remove the possibility of the germ developing too rapidly and bursting a blood vessel.

In actual tests we have been pleased to find that when moisture was applied the first week, instead of the third, the results were far more gratifying, the chicks were better and the percentage of the hatch higher.

These results were obtained under conditions as nearly like those under which the less pleasing results were obtained when the other methods of handling in regard to the moisture question were employed. The moisture question will doubtless continue to be a great unanswered question in the future as it has in the past. You can only solve it by determining the peculiarities of your own individual machine and governing yourself accordingly. Remember that every machine manufactured, even though it be manufactured by the same firm as others, has peculiarities just the same as every hen.

Chesla Sherlock.

WHITE DIARRHOEA.

Dear Sir: I see reports of so many losing their little chicks with bowel troubles, so thought I would tell my experience. I used to lose a great many of my little chicks from this cause, tried a good many remedies and was about discouraged with the chicken business. Two years ago they began to die and I thought I would try Walker's Walko Remedy. I used two 50c packages, raised 300 White Wyandotte chickens and never lost one or had one sick after getting the medicine. Readers can get it by sending 50c (M. O.) to the Walker Remedy Co., U. 8 Lamoni, Iowa. I wouldn't try to raise incubator chicks without it.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.—Adv.

SPROUTED OATS FOR POULTRY.

To the Editor of The Homestead:

I believe no green food equals sprouted oats in value for chickens. Last summer I raised 200 Buff Orpingtons on free range, where there was plenty of grass, but they ate only a small amount. The reason was that they had access at all times to sprouted oats.

My system of sprouting oats has, I think, some points of advantage over those ordinarily used. I sprout my oats outside in wooden frames, right in the yard where the chickens are kept. I generally use eight-foot fencing boards, but any ordinary lumber, such as can usually be picked up about the place, will answer. First, make a frame four feet square with four boards on edge. This will make a frame six inches high, if you use fencing. Now, nail boards across this frame leaving about one inch space between them. I have made the frames larger than four feet square, but find them too heavy. By leaving one inch between the boards you give the oats plenty of ventilation.

Soak your oats (about one-third bushel) in an equal amount of water. In winter oats should be soaked in warm water, but I used city water, just as it came from the hydrant, for my oats all last spring and summer. By adding a few drops of a formaldehyde solution (such as can be purchased at the drug store) to the water, it is said that you can prevent mold, but mold gives no trouble in these outdoor frames; one point of advantage.

After the oats have soaked for twenty-four hours, spread an area about one inch thick on the ground, just so the frames cover it all. The chickens cannot bother it, except to pick a little along the edges under the frame. At first I covered the frames with muslin instead of boards, but the hens were not long in picking a hole into it. You may have to sprinkle the oats once every two or three days, but if there is one good rain during the sprouting period, this will not be necessary.

The oats will be three inches long in about a week's time. This is about the time to feed, if you would get the most out of them. If the weather is very wet and you leave them longer, they may sour. Watch them, and at the first sign of souring, feed without delay, as in this beginning of fermentation, they will not hurt the fowls. I was bothered very little, though, with souring.

In feeding simply move the frame over a little every morning—six inches or a foot—depending on the number of chickens. After they get accustomed to it, give them all they will eat. I begin to feed it to the little chicks when a week old. Oats one-half inch long are right for them. They greatly relish the sprouts, and, like older chickens, eat roots and all.

When oats have sprouted three inches, the bulk of your feed is increased several times, and likewise the palatability, and digestibility, along with the increase of food elements, taken from the air, and from the ground by the tiny rootlets. They thus save much of the grain bill, and supply growing and laying, instead of fattening food. This is what is desired in young and laying stock.

In the latitude of northern Iowa these frames can be used from the beginning of April to November. In case the weather gets frosty, simply cover with straw or a blanket. These frames are a great thing for those raising poultry on a small area. If you have an area of land eight feet by four feet (enough for the use of one frame) you can provide almost enough green food for fifty hens all summer. If the land has a tendency to get sour, sprinkle it with a little air-slacked lime. They are also fine for flocks with plenty of range, because chickens relish the quick sprouted oats better than any green food on the farm, and the frames furnish a convenient way to grow it for the little chicks.

I have had two years' experience with a patent oat sprouter, in which the heat is furnished by a lamp. It is a great thing in winter. "Poultry silo" expresses its worth. The frames, obviously, cannot be used in winter. I have used mangel-wurzels, cabbage, cut clover, and boiled potatoes, in winter, but the chickens won't notice these until the sprouted oats are eaten.

The whole truth about lamp sprouters is not told in the books or literature. In the winter of 1912, I used mine in the house and in the cellar; in both places with success in so far as a product of sprouted oats was concerned. But the odor produced in that process was so disagreeable, that the sprcuter was moved out doors as early in the spring as possible. In the winter of 1913 I used it in the barn. To get the necessary heat, it was covered with building paper, and two horse blankets and an old overcoat wrapped around it. The results were satisfactory, and I had plenty of

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EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

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LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100. Address Frank A. John, Bedford, Iowa.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred, Mrs. Geo. Craig, Afton, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

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$1.50 per 8. **Frank Anderson, R. 6, Akron, Ia.**

Eggs from Mammoth Toulouse Geese $2 for 10. A few ganders left. Address Ethel H. Shaw, R. 6, Newton, Iowa.

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sprouted oats for a flock of eighty birds all winter.

My lamp sprouter is of wood outside. I would prefer one all metal because the wood gets moldy. Mold is the greatest trouble in indoor sprouting; a trouble you rarely have in the outdoor frames I have described, because there the growing oats get plenty of fresh air and sunlight. My treatment of mold is not orthodox. I watch closely for it, and pick off the moldy sprouts in their very beginning. The chickens eat this without harm; if mold has progressed much the fowls will not eat the oats unless starved to it.

I have for a long time been shaping my plan for a winter oat sprouter for a large flock—200 hens or more. I would have a separate building ten feet square, all cement. There would be a window and a door in the south side. The floor would slope to the northeast or northwest, where an inch pipe in the wall would let the water drain off. A first-class tank heater used to furnish warm water for the chickens, and to cook small potatoes, turnips, and roots, would furnish the heat and water for the oats.

Around the west, north and east sides, would be galvanized frames, in which a great number of galvanized, sliding trays, two feet square, would furnish all the sprouted oats for as many chickens as you wished.

W. C. Cummings,

Deleware Co., Ia.

LICE AND MITES.

To the Editor of The Homestead:

Lice and mites are the worst enemies with which the poultry keeper has to deal. There are several kinds but the two commonest kinds are the gray body lice which live on the fowls and the little mite whose smallness is made up for by the enormous numbers in which he appears in the henhouse. Once let a henhouse become infected with the mites and it is almost impossible to get rid of them. They multiply very rapidly and live on filth and refuse matter. Without doubt the numbers in an infected henhouse will often run into the hundreds of thousands and perhaps into the millions. Many houses unsuspected swarm with them.

The gray body lice can be killed by dusting the hens with insect powder, greasing or dipping in sheep dip or tobacco water, or confine them a short time in a box or barrel painted on the inside with lice killer. Wood ashes mixed with the dust in the dusting box, equal parts of each, will keep away lice. A little vaseline on the heads of small chicks as a prevention of lice is better than lard and if purchased by the pound is not much more expensive.

Thorough and persistent work is needed to rid a house of mites and keep it free of them. If the house is tight fumigate with sulphur, if not whitewash with hot lime, to every gallon of which add one ounce crude carbolic acid. Remove the roosts, nests and other fixtures and saturate with kerosene before putting them back.

Twice a month shut up the house and throw around air slacked lime and sulphur. Wash the roosts frequently with a lice killer, a cheap and handy one can be made as follows:

Cut into small pieces one bar soap, boil in about a gallon of water until dissolved, remove from fire and add one pint kerosene. To be used as hot as possible.

A single mite can do no harm but thousands can. We have seen sitting hens killed by these mites and there is no doubt that often their presence in a flock cause a very great decrease in the production of eggs by the fowls.

These mites are grayish in color before they have feasted on a fowl. Then they fill themselves with blood and this shows through the transparent skin of the mite. This gives them the red color by which they are known "the little red mite." In their natural color they are little noticed on the roosts and under the straw and other litter in the nests. As they multiply with great rapidity they have by March filled every crack in a poultry house where they are permitted to remain.

Till I lost a sitting hen by the attacks of these little vampires I did not believe that it was possible for such small things to kill a large

PLYMOUTH ROCKS.

Barred Plymouth Rock Eggs

And baby chicks from prize-winning stock and excellent layers of both matings. Write for mating list. Mrs. L. C. Reese, Prescott, Iowa.

Barred Rock Eggs

FROM first prize winners and pure Bradley stock. Both cockerel and pullet mating, $3 to $5 per 15. $6 per 100. Stock at all times. Write for circular. **ALBERT A. FOSTER, Russell, Iowa.**

White Rock Eggs from prize winners. Fishel strain, $1.25 for 15; $5 for 100. Fawn and W. Runner Duck Eggs, $1 for 11. Mrs. G. W. Shaw.

DUCKS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK

EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address **W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.**

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

Fawn and White Indian Runner Duck Eggs.

FROM the Harshbarger Blue Ribbon strain. $1 per 15. Also White P. Rock eggs from fine strain. Bred to lay. Same price. M. A. Carty, Earlville, Ia.

Indian Runner Duck Eggs

FROM choice range stock, Fawn and White, pure white eggs, 15 for $1, 50 for $3, 100 for $5. **White I. R. Ducks** per setting 15 eggs, $3.50. Also choice utility range S. C. R. I. Red eggs, 15 for $1, 50 for $3, 100 for $5. **CHAS. SPIKE, JESUP, IOWA.**

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons,** R. 2, Prophetstown, Ill.

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6. John M. Hall, Williams, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from fawn and white, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners $2.00 per 12. Address E. A. KAUFFMAN. Lockridge, Iowa.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

WANTED

PEKIN DUCK EGGS in any quantities; state lowest prices. P. O. Box 734, Des Moines, Iowa.

WE are offering 100 extra choice breeding trios of pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address **Rahn & Son, Box 144, Clarinda, Iowa.**

Our Indian Runner Ducks were winners of all four 1sts at Chicago, Des Moines and Grinnell. Ten choice pairs. $5 per pair. A few drakes at $2 each. F. L. Reinhard & Son, Ottumwa, Iowa.

Indian Runner Duck Eggs From a heavy-laying strain, 15 for $1.00, 30 for $1.75, 50 for $2.50. None but fresh eggs shipped. Edward Klinetob, Clarksville, Iowa.

IMP. BLUE ORP. DUCKS Greatest layers, very hardy, easy to raise and a fine table fowl. Eggs at attractive prices. Order at once. You will be pleased. **Emma Holtz, Wilber, Neb.**

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

INDIAN RUNNER DUCKS Fawn and White. The laying strain. Eggs, $1 for 15; $5 for 100. **EARL WALGREN, Lockridge, Iowa.**

DUCKS Indian Runner ducks, Fawn. Great layers. 13 eggs for $1.00. Anna Pratt, Beaver Crossing, Neb.

EGGS—Pekin ducks, headed by drake scoring 96½ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

INDIAN RUNNER duck eggs, pure-bred, fawn and white, laying strain, high-scoring eggs $1.50 per 18. Address K. Hemmen, Blairsburg, Iowa.

FAWN and White I. R. duck eggs, flock scoring up to 96; state fair winners, W. egg strain, $1.50 per 13. Mrs. Howard Niswander, Kinross, Iowa.

INDIAN Runner ducks, scorad drakes with fawn heads and backs; eggs $1.00 for 15, $3;00 for 50, $5.00 for 100. Address MRS. C. R. SWITZER, Lewis, Ia.

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

PEKIN DUCK EGGS $1 per 11, $6 per 100; drakes $2 each. **Miss Edith Young, Huntertown, Ind.**

FOR SALE English penciled I. R. duck eggs, $1.50 for 15 or $8 for 100. **Nishna Collie Kennels, Oakland, Iowa.**

DUCKS---Indian Runner, Fawn and White.

Eggs $5 for 100; $1 for 13. Mrs. Walter Hoar, Kent, Ia.

ROUEN DUCK EGGS $1.50 for 12; $2.50 for 24 from large, pure-bred stock. Address John P. McFadden, Atalissa, Iowa

Indian Runner Duck Eggs for hatching. Excellent layers. $1 per 15, $2.75 per 50; $5 per 100. Herbert N. Jenny, R. 2, Clarksville, Ia.

PLYMOUTH ROCKS.

HAWKINS - BRADLEY - THOMPSON

BARRED Plymouth Rocks. Our yards headed by Bradley cockerels scoring 91¼ to 94½. Birds have fine style and excellent plumage, being barred to the skin. Prize winners wherever shown. We guarantee fair hatch and safe delivery. 15 eggs $1; 30 eggs $2; 50 eggs $3; 100 eggs $5.50.

H. C. Saunders & Son, - Montezuma, Iowa.

EGGS FOR HATCHING

BARRED P.Rocks exclusively for 30 years. Yards headed by cocks and cockerels scoring 92 to 92½ points. Descendents from first-prize winners. Cocks and cockerels weighing 10 to 13½ pounds, hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last showings. Eggs $1.50 per 15, $2.50 per 30. Prompt shipments and eggs guaranteed fertile. M. HUMMEL, Monroe, Iowa.

WHITE PLYMOUTH ROCK EGGS

FLOCK consists of 150 pullets selected from 400 and mated with 11-pound pure-white cockerels. Prices $1.00 for 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Order from this ad.

JAS. JENSEN & SONS, NEWELL, IOWA.

OGG'S BARRED ROCKS

BEST ever. Yards headed by first cock, state show, 1912; Bradley cockerel sired by New York champion; cock, pen brother to 1st Chicago cockerel, etc. Pen eggs, $3 for 15; $5 for 30; range $2.50 for 30; $6.00 for 100. Address MASON C. OGG, Monroe, Iowa.

Barred P. Rock Eggs for Sale

FROM extra large barred stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92½; in 7 showings we won 38 1sts, 9 2ds, 5 3ds, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. **J. W. Wagner, Monroe, Iowa**

B. P. Rock Eggs for Hatching

FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price, 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

Barred Plymouth Rock Eggs

HIGH-CLASS breeding pens scoring up to 93½ and strictly good farm flocks. Eggs $1.50 to $3 per setting. Send for mating list. Address
Earl Bloom - - Bridgewater, Iowa.

Barred Rock Eggs

for hatching. These are cheap quality considered; pen A, $3 per 15; pen B and C, $2 per 15; range flock, $1 per 15 of $5 per 105
CHAS. McCASKEY, OGDEN, IOWA

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

Buff Plymouth Rock Eggs

FROM a pure-bred and excellent laying strain. 15 eggs, $1.50. Mrs. Lee Ruggles, Birmingham, Ia.

BRADLEY BARRED ROCK

EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia.

WHITE P.ROCK EGGS From very best selected stock, $1 per 15, $2 per 30 and $5 per 100. Send cash with order. Satisfaction guaranteed. H. B. Francisco, Hastings, Neb.

Hammond Ave. Poultry Yards Eggs from my selected pen of Barred P. Rocks (that are barred). Cockerel matings. Address 215 Hammond Ave., Waterloo, Ia.

B. P. R. Eggs (Easton, Shellabarger, Bradley Bros. strains), 15 for $1, 100 for $5.00. Toulouse geese eggs 50 cents each. Address James Cockerton, Whiting, Iowa.

B. PLYMOUTH ROCK EGGS, 30 FOR $1.00
100 EGGS, $3.00. M. B. turkey eggs, 13 for $3.00. Toulouse Geese eggs, $3.00 for 10. Address
MRS. ROBT. HUNT, EARLVILLE, IOWA

Thirty Years' Experience As a breeder and exhibitor of Plymouth Rocks. Eggs from barred, buff, white. $1 for 15, $2.50 for 50. A. Mathews, Mt. Union, Iowa.

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose, Ia.

W. P. R. Exclusively. Carefully selected stock. Eggs $1.25 per 30 or $3.50 per 100. Address Mrs. W. S. Huber, Tipton, Iowa.

White Rock Eggs Selected and guaranteed. Write for prices. Address Mrs. Myrtle Carter, Panora. Iowa.

White Rocks White View Farm. Fishel strain. Eggs $1.50 for 30, $2.25 for 50, $4 for 100. Address Mss. C. E. Pugh, Menlo, Iowa.

Barred Rock Eggs From 3 pens. Ckls. scoring up to 90¾. $1 to $1.50 per 15. Range flock $4 per 100. Mrs. Jas. McNally, Victor, Iowa.

WHITE P. Rocks, S. C. R. I. Reds. 15 Eggs parcel post $1.75. Express $1.50. Safe delivery and fertility guaranteed. Mrs. G. W. Alberts, Leigh, Neb.

BARRED Rocks, finely barred, large boned, bred to lay. Score 93. Fawn and White I. R. duck eggs, 30, $2.00; 50, $4. Charles Clarke, R. 2, Greene, Iowa.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

EGGS from Barred Rocks bred to lay as well as quality. Special matings, range flock, satisfaction guaranteed. Harry Anderson, Beaver Crossing, Neb.

WHITE ROCK EGGS Send me your orders now for future or present shipment. Write B. W. Eckels, Nevada, Iowa

EGGS from well-mated WHITE ROCKS $1.00 for 15 or $5.00 per 100. Address
Mrs. W. Anderson, Rising City, Nebraska.

Barred P. Rock Eggs Large well-barred extra fine layers, $1.50 for 15, $3.50 for 50, $6 for 100. Mrs. W. F. Bohlander, Avoca, Ia.

For Sale Barred Rock eggs from large well-barred stock. Ckl., Page strain, $1.50 and $2 per 15. Mrs. W. S. Kern, Plainfield, Iowa.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4. Address **O. N. Woody, Route 3, Newton, Ia.**

White P. Rock Eggs

100, $2.50; 15, $1. Mrs. O. P. Constable, Norwalk, Ia.

FULL-BLOOD Buff Rock eggs from $1 to $1.50 for 15 eggs. Strong, healthy birds from scored stock. Address Mrs. P. J. Eggers, Denison, Iowa.

WHITE Plymouth Rock eggs for sale at 75c per 15, $2.25 per 50, $4 per 100. All carefully packed. Mrs. Henry F. Weber, Box 144, Chadwick, Illinois.

strong, vigorous sitting hen. Having had no mites in my henhouse for years I did not believe that any existed there at the time I set two hens in rather dark nests.

In about two weeks I noticed that one of the hens seemed to be sick although I was unable to detect any particular trouble. Her comb had turned very pale almost black. I took her from her nest and carefully examined her, but nothing was discovered to indicate the source of the trouble. Of course, the mites that had been sucking her blood in the night had all left her by daylight, and had taken refuge under the straw in the nest.

Two or three days after that I found the hen dead half way off the nest with her wings extended. The little vampires had sucked such quantities of blood from her that there was not enough left for heart action. Yet I did not even then suspect the cause of the death of the hen.

Another hen was placed on the eggs and in two or three days I noticed that her comb was also becoming pale and that she was growing weak. She was taken off the nest and was almost too weak to move about. The eggs were taken out and the straw removed when it was discovered that the bottom of the nest was one mass of red fat mites, every one of which had nightly feasted off the sitting hens.

They were destroyed and new nest material put into the nest.

I consider it a striking illustration of the deadly character of the attacks of these mites.

There is no doubt that in addition to the damage these mites do in sucking blood, there is another damage they do that must not be lost sight of.

They spread disease from one bird to another by sucking blood from one bird and then another. The losses from this cause is undoubtedly very great. A. F. S.

POINTERS

—The advertisement of Arthur T. White, Emerson, Iowa, quoting prices on Barred Plymouth Rock eggs appears elsewhere in this department.

—Mrs. Geo. W. Johnston, Kent, Iowa, can supply Homestead readers with White Wyandotte eggs. Her prices are named in the advertisement elsewhere in this department.

—If wishing to purchase Single Comb Rhode Island Red eggs read the advertisement elsewhere in this department of F. L. Shackleton, Boone, Iowa, quoting prices.

—For prices on White Holland turkey and White Plymouth Rock chicken eggs read the advertisement of A. E. Sutherland, Madrid, Iowa, elsewhere in this department.

—Baby chicks and eggs from Single Comb Buff Orpingtons of the Cook strain are offered for sale in the advertisement elsewhere in this department of H. E. Gerry, Traer, Iowa.

—F. J. Sexsmith, Orient, Iowa, is quoting prices on Mammoth Bronze turkey eggs, delivered either by express or parcel post, in his advertisement appearing elsewhere in this department.

—Mrs. E. S. Wallcott, Richland, Iowa, can supply Homestead readers with White Plymouth Rock eggs from a high-scoring and extra good laying strain. Her advertisement appears elsewhere in this department.

In furnishing copy for his advertisement of White Plymouth Rock eggs that appears elsewhere in this paper, H. B. Francisco, Hastings, Neb., states that their poultry flocks are in the finest possible condition and that the hatches are especially good this season. Mr. Francisco is pricing eggs from selected matings at $1 for fifteen; $2, for thirty, and $5 for 100 eggs. These prices are, of course, very low, but they wish to sell this stock as fast as produced. Mr. Francisco also asks that readers of this paper enclose payment with first letter for the amount of eggs wanted, and he guarantees to

TOO LATE TO CLASSIFY.

W. H. Turkey Eggs of prize-winning strain, 10 eggs $3. W. P. Rock eggs from high-scoring pen 15 eggs for $1.75. Address A. E. Sutherland, Madrid, Iowa.

Eggs For Hatching from large, high-scoring extra good laying strain. Shipped in first-class shape. Prices reasonable. Address
Mrs. E. S. Wolcott, Richland, Iowa.

FOR SALE—Cook's Single Comb Buff Orpington Eggs and baby chicks. Write for mating list. H. E. Gerry. Traer, Ia.

WHITE WYANDOTTE EGGS
$4 per 100, $1 per 15. Mrs. Geo. W. Johnston, Kent, Ia.

S. C. R. I. Red Eggs from bred-to-lay strains, pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa.

FOR SALE M. B. turkey eggs by express or parcel post, 30 cents each. Address F. J. Sexsmith, R. F. D. 2, Orient, Iowa.

PLYMOUTH ROCKS.

WHITE PLYMOUTH ROCKS AND WHITE PEKIN DUCKS CHOICE flock of White Rock pullets mated to cocks scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30; $3 per 45; $7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn. Mated to him are 9 hens weighing 10 lbs. ea. Eggs $3.00 per 15, $5.00 per 30. Extra good flock of ducks headed by drakes which were sired by fowls scoring 97 points. Eggs $1.50 per 11; $2.00 per 22; $4.00 per 50. Fair hatch guaranteed or eggs replaced at half price. Send for circular. **John W. Houseleg, Bellevue, Iowa.**

BARRED P. ROCK EGGS Hawkins, Thompson and Bradley strains; from high-scoring, good laying stock, having farm range; heavy bone and clear, narrow barring. Males weigh 10 to 12 lbs., females 7 to 9 lbs.; 15 eggs $1.25; 30, $2.25. Mrs. Elsie Noble R. 2, New Boston, Ill.

EGGS From standard exhibition Barred Plymouth Rocks, Bradley strain. Pens contain many birds closely related to noted Chicago show winners, large size, splendid markings. Price $2 per 15. Also eggs from choice pen of W. Wyandottes $2 per 15 eggs. Mrs. H. J. Hess, R. 6, Waterloo, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wyds., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams, J. Ross Bachman, Blakesburg, Ia.

"RINGLET" BARRED PLYMOUTH ROCK EGGS FROM prize-winning birds, from all pens, $2.00 per sitting. H. M. Scott, 903 Iowa St., Vinton, Iowa.

FISHEL WHITE ROCKS direct. Eggs for hatching from high-scoring and prize-winning stock at reasonable prices. Address Mrs. A. Barclay, R. 3, Madrid, Ia.

BUFF ROCK EGGS. Who has the best Buff Rocks in the Mid-West? Send for catalog and learn about the strain that always wins. Rouen Duck Eggs. C. & C. T. Van Lint, Pella, Ia.

WHITE P.ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

BARRED ROCKS STANDARD kept up 25 years, 4 pens, two cockerel and two pullet matings, narrow, deep barring. Eggs, 45, $3; 30, $2.50; 15, $1.50. **J. O. Becker, Chariton, Ia.**

WON with my B.P.Rocks 1st, 2d P., 2d pen, 3rd hen, 3d ckl. Ia. State Fair; 2d P., B. ckl. 3d P. Cedar Rapids; silver cup, 17 ribbons at 3 other shows. Clr. free. Eggs 15, $2.50. Mrs. H. I. Branson, West Branch, Ia

Barred Plymouth Rock Eggs Large, good shaped, well barred birds, $1.25 per 15, $2.25 per 30, $30 per 15 and $5 per 100. Arthur T. White, Emerson, Iowa.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15, $3. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

PURE-BRED White Rock eggs; birds scoring 91½ to 95¾. Pen, 15, $3.50; 100, $12. Range, 15, $1.50; 100, $5.50. **H. L. NEFF, Dallas Center, Iowa.**

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.50 per 15; $7 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BARRED Plymouth Rocks, Pekin ducks, W. H. turkeys; eggs, Rocks 15, $1.25; 30, $2; ducks 10, $1.50; turkeys, 10, $3.50. Fred Post, Moulton, Iowa.

Barred Rock eggs; bred to lay, Bradley strain, largest type, best breeding; choice pens $2 and $3 per 15; utility 15, $1.50. Mrs. S. M. Thompson, Birmingham, Ia.

FOR SALE Eggs for hatching from select pen of Buff Rocks. Fertility guaranteed. Will A. Petersen, 1423 Cedar St., Muscatine, Iowa.

BarredRockEggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED Plymouth Rocks, pullet mating, Headed ckls. of Latham and Winikee strains. Eggs 15 $1; 100 $5. H. V. Hethershaw, R. 6, Des Moines, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

THE FARMERS' FOWL Barred Plymouth Rock eggs for sale. Write Mrs. Fred Sievers, R. 1, Audubon, Iowa.

WHITE Rocks, farm raised, Fishel strain, cockerels score 93¾ to 96. Eggs 15, $1; 50, $3; 100, $5. Address Mrs. A. H. Klepper, R. 1, Muscatine, Iowa.

EGGS Pure-bred, fine white Plymouth Rocks, Fishel strain, heavy boned. Five cents per egg. Mrs. H. Wood, Moville, Ia.

EGGS for hatching from White Plymouth Rocks at $1 per 15; $3 per 50; $5 per 100. Farm raised, high-scoring. Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

Buff Rocks Only Fine birds. Best breeding. Eggs $1.50 for 15. Satisfaction guaranteed. W. M. Black, Knoxville, Iowa.

Buff Rock Eggs 15 for $1, 100 for $4.50. White Wydt. and Pekin duck eggs $1.50 per sitting. Alfred Marquardt, De Sota, Iowa.

EGGS Pure-bred Barred Rocks, $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

Pure-Bred W.Rocks Farm range, utility stock. 15 eggs, 75c; 100, $4 W. Pekin Ducks Eggs 50c setting. Mrs. R. M. Miller, Shell Rock, Ia.

B. P. R. eggs from large, fine, barred birds; good laying strain; ckls. scored 90-92½; wt. 10-12 lbs. 15, $1.50; 30, $2.25. G. J. Pfeil, R. 3, Central City, Iowa.

Barred Rocks Exclusively EGGS $1 per 15; $1.50 per 30 or $4.00 per 100.
ASA ANDERSON, New London, Iowa.

BARRED Plymouth Rock eggs from pure-bred, well-barred, heavy-boned stock, 15, $1.25; 50, $2.50; 100, $4. Henry Angerer, R. 1, Wilton Junction, Ia.

BARRED ROCK EGGS. Thompson's Imperial Ringlet stock direct. Also Bradley Bros.' strain. Send for mating list. Mrs. Wm. Stoll, R. 10, LeMars, Ia.

PLYMOUTH ROCKS.

White Plymouth Rock Eggs

PEN No. 1 is headed by 1st cockerel at Omaha. Pen No. 2 is headed by a cockerel that was sired by a cockerel that was Grand CHAMPION at Detroit, Mich., in 1912, egg from these two pens $2 per 15. My utility flock is headed by cockerel scoring 94 and 95, all birds weigh 9 to 11 lbs. each. Utility eggs $1.00 per 15, $2.50 for 50, $4.00 for 100. Address CHAS. L. BERRY Iowa City, Iowa.

EGGS from PRIZE MATINGS

I HAVE eggs from White Plymouth Rocks scoring 93 or better and winners of 1st, 2d, 3d and 5th, Shellenbarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address
HENRY LINKE, - Wayne, Nebraska.

STRATER BROS., Monroe, Iowa, breeders of

Barred Plymouth Rocks

34 years with size and quality and the best of layers. Prize winners and sired by prize winners. Eggs, $1.25 per 15, $2 per 30, $6 per 100. Special mating, $5 per 15. Prompt shipment.

Barred Plymouth Rock Eggs

FIFTEEN for $1.00 or $1.75 for $3. Stock scoring to 93½. Grand in size, males weigh 10 to 12 lbs.; Blue ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson and Bradley strains. Guaranteed good hatch and safe delivery. Catalog free. Address
S. V. LATCHAM, WOODWARD, IOWA.

1898 BUFF ROCKS 1913

EGGS from 3 exhibition matings at $3 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings.
M. E. KRAFT, - Brooklyn, Iowa.

BARRED ROCK EGGS

FOR hatching from hens weighing to 10 lbs. and cockerels up to 12 lbs. Heavy bone, nice yellow legs and deep, narrow barring. 15 eggs $1.50; 30, $2.50; 45, $3.50; 100, $7. Fair hatch guaranteed or replaced at half price. **Theo. Martin, R. 6, Bellevue, Ia.**

White Rock Eggs for Sale

FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100.
Charles Guth - - Berwick, Iowa.

BARRED P. ROCK EGGS

EXTRA select matings, the sort that have produced my state show winners, $1.50, 15; $2.50, 30; $5, 100. As good as the best. Breeding and showing 15 years. **Geo. Westwood, Box 20, Waco, Neb.**

"PARTICULAR" BARRED PLYMOUTH ROCKS

THE winning and laying kind; eggs $2.50, 15; $4.30. Pen 1 headed by a son of our 1st ckl. S.D. State Show. Pen 2, ckl. of same line, eggs from a bunch headed by 6 choice ckls., $1.25, 15; $2, 30; $5, 100. Good hatch guaranteed. J. M. Detwiler, R. 3, Dunlap, Iowa.

BARRED ROCK EGGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

EGGS FROM QUALITY

BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $5 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

Elm Hill Farm Barred Rocks

"Weight with Quality"

SEND for catalog of matings, prices, winnings and description of stock. Address
J. E. GOODENOW, MAQUOKETA, IOWA

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia.

BARRED ROCKS Eggs from large boned, bred-to-lay stock. Fine shape and color. $1 per 15, $1.50 per 30. Address H. M. SKIPWORTH, LUANA, IOWA.

BARRED PLYMOUTH ROCKS Hawkins, Bradley strains. Eggs for hatching from choice stock, large and vigorous, 15, $1; $5 per hundred. Mrs. C. H. Case, Elliston, Iowa.

EGGS from large B. P. Rocks. Pens 1 and 2 headed by 2 ckls. weighing 9½ and 9 pounds each. Now offering eggs from choice matings. Special prices to Homestead readers. J. L. Todd, R. 3, Des Moines, Ia.

B. Plymouth Rock Eggs

Flock headed by cockerels sired from Bradley and Thompson strain. Mr. and Mrs. S. W. Miller, Trure, Ia.

EGGS—Barred P. Rocks, from 10-pound female, 12-pound males. State show first-prize winners. Free catalog showing real photos of prize winners.
A. D. MURPHY & SON, ESSEX, IOWA.

BUFF ROCKS High-scoring, with trap-nest and show records. Proven winter layers. Eggs: 15, $1, $2.25; 50; 100, $5. Catalog, chicks. M. B. turkey eggs. Write M. Henningsen, Dike, Ia.

WHITE ROCKS Great layers. Flock headed by birds from Fishel's Red Eyes. 5 point comb. Eggs, 15 for $1; 100, $5. Pens $2. Baby chicks 15c. Mrs. M. Baird, R. 8, Red Oak, Iowa.

Barred Plymouth Rocks Wales' strain W. Wyandottes. Fishel strain large, fine marked birds, farm raised eggs $1.00 per 15; $5.00 per 100. H. J. Brown, Belmond, Iowa.

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B, Winthrop, Iowa.

EGGS from Grove Hill strain B. P. Rocks. Extra good layers. From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock, R. 5, Neola, Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100, $4. Write for particulars. Grant Lynn, Spirit Lake, Ia.

WHITE Rocks, 92 to 95¼; eggs $2.00 per 15, utility flock $1.00 per 15 or $5.00 per 100. Address
MRS. JAS. PEDLEY, R. 3, Britt, Iowa.

EGGS from H. S. Barred Rocks and S. C. R. I. Reds, $1.50 per 15, $3 per 50, $5 per 100. Also M. W. P. ducks $1.50 per 11. Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

B. P. R. eggs for hatching, from large well-barred birds. Good laying strain. 15 for $1.00, 45 for $2.25, 105 for $5.00. Mrs. J. H. Hellman, Holstein, Ia.

RHODE ISLAND REDS.

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.

REDS 75 cents per 15 or $4 per 100. Pen No.1 $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed. **J. B. HEISEL, - Grinnell, Iowa.**

SINGLE COMB REDS

EGGS that will hatch, at right prices, from my prize-winning, skin-deep Reds; the kind that pays; start today with this popular breed. Send for my free mating list. L.G.Johnson, Box H, Steamboat Rock, Ia.

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15; pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also F. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address **E. L. DICKERSON, Ragan, Nebraska.**

S. C. RHODE ISLAND REDS

RANGE of 300 full blood birds. Eggs $5 per 100. Express prepaid. Shipped in folding egg cases. No broken eggs. One exhibition pen, either comb. $2 per 15, laying hens, $1.50 each. Address **F. O. MARTIN, - - FLOYD, IOWA**

SINGLE COMB RHODE ISLAND REDS

4 Grand pens headed by 2d and 4th ckls. Dubuque; 1st and 4th ckls. Olewein; heavy laying strain; eggs $1.50 and $3 per 15. Send for mating list. Address **C. E. Hayes, Box A, Lamont, Iowa.**

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Rose Comb Rhode Island Red Eggs For Sale

I AM selling eggs from my two prize-winning pens at $2 per 15 eggs. My motto is "Good quality at reasonable price." J. R. Myatt, Manning, Iowa.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction gnaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. RED EGGS for sale from 6 choice pens headed by show winners. When you buy here you get the best. Address **O. A. Kuerr, Beaver Crossing, Neb.**

S. C. RHODE ISLAND RED Eggs $1.00 per sitting. Few pullets for sale. Sarah Lowe, Clarksville, Iowa.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address **THE RED FARM, Laverne, Iowa.**

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R.1, Box 3, Wahoo, Neb.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address **MRS. GEO. W. GODLOVE, Riverside, Ia.**

S AND R. C. Rhode Island Reds, DeGraff and Tuttle strains. Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. **C. F. BATTELS, Indianola, Iowa.**

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address **George Hunt, Earlville, Iowa**

S. C. R. I. RED EGGS Pen 1 $2 per 15; farm flock $1 per 15; $5 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

S. C. Rhode Island Red EGGS FOR HATCHING, choice sitting, 15 for $1.50. Other eggs 100 $6. Mrs. Geo. Turpen, Jefferson, Iowa.

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1 per 15; $4 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

S. C. R. I. Reds. Eggs $4 Per 100

$1 per 15. Clara Moffitt, R. R. 2, Newton, Iowa.

S. C. R. I. REDS Eggs 75 cents per setting, $4.00 per hundred. Address Mrs. A. O. Adkison, Oakland, Iowa.

TOP notch S. C. R. I. Reds. Two good matings. Eggs $1.00 and $1.50 per 15. Good range flock $4.00 per 100. W. E. Briggs, R. 2. Woodbine, Iowa.

S. C. R. I. RED Eggs from large, red, cup-winning stock, $5, 100; $1, 15; pen $2, 15. Address Mrs. Fred Miller, Adair, Iowa.

S. C. R. I. R. EGGS $1.00 per 15 and 75 cents per 15. From cockerel dark red, no smut, weight 8 lbs. Scores 92¾. Address W. I. PRICE, Ira, Iowa.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

R. C. R. I. Reds. Eggs from DeGraff strain, dark reds, low combs. Pen 1, $2 per 15; pen 2, $1 per 15. Frank B. Coldren, Clarksville, Ia.

Rose Comb R. I. Red eggs, 15, $1. 30, $1.85, 100, $5.00. Address J. Nissen, Meservey, Cerro Gordo County, Iowa.

Single Comb R. I. Red Eggs for Sale

15 for $1; 100 for $5. Address J. C. Porter, Ogden, Ia.

THOROUGHBRED R. C. R. I. Red eggs; pen 1, 15, $1.50; 30, $2.75; pen 2, 100, $4.75; 45, $2.50. Miss E. C. Powers, Osage, Iowa.

S. C. Rhode Island Red Eggs for hatching. Farm range, $1.50 for 15 or $8 for 100. Mrs. W. R. Watson, Oakland, Iowa.

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

RHODE ISLAND REDS.

R. C. R. I. EGGS

STOCK all red to skin, big boned, low tail, red eyes; choice of flock of 400; eggs $1.50 per sitting, $8.00 per 100. **Mrs. F. B. Dann, Dewitt, Iowa**

Rose Comb Rhode Island Reds

EXCLUSIVELY.

EGGS FOR HATCHING

LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City. **Henry G. Walker - Iowa City, Iowa**

Our Blood Red Strain S. C. R. I. Reds are those vigorous, big-boned, long-bodied, rich, even, glossy reds, with that marvelous winning quality. They were silver cup winners in every show entered the past season. Look up their record of blue ribbons won, not only in our hands, but in the hands of our customers. Eggs, Pen No. 1, $10; Pen No. 2, $5; Pen No. 3, $3; Pens 4, 5, 6 and 7, $2 per 15; $7 per 100. F. L. Reinhard & Son, Ottumwa, Iowa.

RHODE ISLAND REDS

EGGS from my select flock of heavy laying birds. $1 for 15; $5 for 100. Send your order at once. Mrs. Jake Waltemeyer, Melbourne, Ia.

"Allendale" R. C. R. I. Reds

AT 1913 Burlington show, won 1st cockerel, 1st pullet and 2d pen with only five birds exhibited. Mating list free. Eggs for sale. Honest Dealing guaranteed. **Mrs. J. H. Allen, New Sharon, Ia.**

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive egg circular. Address P. H. THIEL, Renwick, Humboldt County, Iowa.

S. C. R. I. REDS EXCLUSIVELY. EGGS from choice breeders at $1 to $5 per 15. Send for mating list. Address **J. A. Holmes, Steamboat Rock, Iowa.**

RoseComb Reds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain, sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R. C. Rhode Island Red Eggs Exhibition and laying strain; 1st pen $5.00 per 15; 2d, $3; 3rd, $1.50. Fertility guaranteed. Red Poultry Farm, Randalia, Iowa.

R. C. RHODE ISLAND REDS

EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

S. C. R. I. REDS—Great layers of large brown eggs; 15, 75c., 75, $2.50. Eggs guaranteed fresh. Address Mrs. Henry Queckborner, Chadwick, Ill.

S. C. R. I. RED EGGS from great laying strain that are red. $1 per 15; $5 per 100. Address **J. E. LEWIS, Brayton, Iowa.**

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.50 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

Eggs for Hatching S. C. R. I. Reds, 15 for $1: 100 for $5. Address Mrs. Harry Evans, Bedford, Iowa.

EGGS from pure blood, high-class S. C. Rhode Island Reds. 75 cents for 15; $4 for 100. Address Mrs. S. A. Spalti, Pleasantville, Iowa.

EGGS from thoroughbred Reds (either comb) 15, $1; 100, $6. Special pen $2.50 per 15. Laying hens, $1.50 each. Mrs. A. Laun, Riverdale Farm, Floyd, Ia.

For Sale R. C. R. I. Red eggs $1 per sitting of 15; $6 per 100. Good farm range. Nettie Amundson, R. 1, Box 2, Soldier, Ia.

Eggs from Farm Range R. C. R. I. Reds 75c per 15; $4 per 100. Pen 1, $12 per 100; $2 per 15. Mrs. J. E. Brooker, Van Meter, Ia.

R. C. R. I. Reds; farm raised, laying strain. Pen scoring 91 or better 15, $3; pen No. 2, $2; range 15, $1; 100, $5. C. D. Jackson, R. 5, Grinnell, Iowa.

SINGLE Comb Rhode Island Reds exclusively. Fine breeding, vigorous farm-raised stock, eggs for hatching, 15, $1; 100, $5. R. H. Ortman, Bancroft, Ia.

R. C. R. I. EGGS from choice range flock, $1.00 per 15 or $5 per 100. Can ship from DeSoto. Write for circular. Mrs. T. J. Link, R. 2, Winterset, Iowa.

S. C. R. I. Reds Exclusively from prize-winners, $5 per 105, $1 per 17. Address I. C. WELCH, - BEDFORD, IOWA.

EGGS—S.C., R. C.R.I. Red & Kellerstrass. Crystal White Orps., $1 per sitting. Prize-winning pens, $3 to $10 per sitting. Mrs. T. A. Gough, Bristow, Ia.

S.C.R.I.RED EGGS $1.50 per 15, single setting only, from one choice pen, cock scores 91½. **C. W. Kellogg, Rockwell City, Iowa.**

EGGS Rose Comb Reds, pen 1, cockerels score 93¾, 15, $1.25; 100, $5.50. Pen 2, 15, 75cts; 100, $3.50. Address Miss Maggie Henning, Ira, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

S. S. HAMBURGS.

S. S. HAMBURG EGGS FOR HATCHING

Address **H. C. SCHRAGE, BRISTOW, IOWA.**

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

please. This will save unnecessary delay, and the writer wishes to say that Mr. Francisco is dependable. Mention this paper when you write.

—W. W. Perry, New Hartford, Iowa, is quoting prices on Single Comb White Leghorn eggs in his advertisement appearing elsewhere in this department.

—Eggs from Rose Comb Rhode Island Reds are offered for sale by J. Nissen, Meservey, Iowa, at prices named in his advertisement appearing elsewhere in this department.

—Mrs. P. J. Eggers, Denison, Iowa, is quoting prices on full-blooded Buff Rock eggs from strong, healthy, scored stock in her advertisement appearing elsewhere in this department.

—Eggs from a selected pen of Barred Plymouth Rocks can be furnished by the Hammond Ave. Poultry Yards, 215 Hammond Ave., Waterloo, Iowa, as per advertisement in this department.

—If wishing to purchase Pekin duck eggs or drakes the prices quoted in the advertisement of Miss Edith Young, Huntertown, Ind., appearing elsewhere in this department, will be of interest.

—Any reader of The Homestead having Pekin duck eggs for sale should read the advertisement appearing elsewhere in this department, the address of which is P. O. Box 734, Des Moines, Iowa.

—Eggs from the White Quill strain of White Wyandottes from stock from state show winners are offered for sale by Ethel H. Shaw, Newton, Iowa, in her advertisement appearing elsewhere in this department.

—Chas Guth, Berwick, Iowa, is offering White Plymouth Rock eggs for sale from a pen headed by grand champion male at the 1911 Des Moines show, in his advertisement appearing elsewhere in this department.

—Mrs. Eva G. McCoy, Prairie City, Iowa, raises White Wyandottes exclusively. She has a flock of pure breds from which she is quoting prices on eggs in her advertisement that appears elsewhere in this department.

—Barred Plymouth Rock eggs are offered for sale by Mr. and Mrs. S. W. Miller, Truro, Iowa, in their advertisement that appears elsewhere in this department. Their flock is headed by cockerels of the Bradley and Thompson strain.

—Mrs. H. J. Hess, Waterloo, Iowa, writes: "The Barred Plymouth Rocks I am offering eggs from are large, heavy-boned stock of the Bradley strain, and are closely related to Chicago show winners. My White Wyandottes are also choice, pure-white birds and descendants of prize winners. I can supply eggs, carefully packed, at reasonable prices." See her advertisement elsewhere in this department.

—E. S. Dyas, Bellevue, Iowa, writes: "Our White Wyandottes are extra large, pure white; not a bit of brass on the farm. The eggs this season are testing about 100 per cent fertile, and on account of the vigorous breeders those who buy eggs from us will get chicks that they can raise without trouble. The Pekin ducks are of the Mammoth strain; none better anywhere. Satisfaction guaranteed." See advertisement elsewhere in this department.

—H. J. Brown, Belmond, Iowa, in furnishing copy for his advertisement offering eggs for sale from Barred Plymouth Rocks and White Wyandottes, that appears elsewhere in this department, writes: "My birds have been prize winners for the last ten years at Iowa Falls, Ames, Algona, Dows and Mason City shows. Last year I won nine out of eleven first and nine club ribbons. My birds are all raised on the farm, are large finely marked and good layers. Here is a good chance to get started with thoroughbred stock at a cheap price.

—"I have as fine a lot of Barred Plymouth Rocks of the E. B. Thompson strain, as I have every had," writes Mrs. H. E. Brown, Corning, Iowa, in furnishing copy for advertisement found elsewhere in this department. "Have one pen that is strictly pure-bred Ringlets mated with a fine cockerel direct from Thompson yards. My White Plymouth Rocks are up to date in every way and are of the Fishel strain. Can also furnish eggs from S. S. Hamburgs and Embden geese. I will guarantee a good hatch or replace eggs at less than one-half price. Special mating list may be obtained upon request."

—George Westwood, Waco, Neb., in sending copy for his advertisement of Barred Plymouth Rock eggs, which appears in this issue, states that the matings from which these eggs are selected are among the best he has ever made, and Mr. Westwood is a veteran breeder and a showman that has made a good record. Homestead readers wishing choice stock at what is certainly low prices should look up the advertisement and write at once. Mr. Westwood is a good man to do business with and cash may be sent with order with perfect safety. Address George Westwood, Box 20, Waco, Neb. When you write mention The Homestead.

Toulouse Geese eggs from matings that have produced excellent stock are being offered by H. B. Francisco, Hastings, Neb. Readers of this paper in search of the very choicest stock should write Mr. Francisco at once. Eggs from the old matings are priced at twenty-five cents each and from the younger matings at twenty cents each. Six to seven eggs are generally bought for a sitting and Mr. Francisco requests that purchasers send cash with order, that is check or P. O. money order or something of that sort and save the unnecessary delay caused by writing for prices. The writer is personally acquainted with Mr. Francisco, knows well the flocks of poultry and does not hesitate to recommend this

WYANDOTTES.

Silver Laced Wyandottes

I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display, 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

Faha's Silver Wyandotte Eggs From five grand pens Still have a few choice birds for sale. Send for catalog and mating list. Address **Frank Faha, Jr., Box 620, Dyersville, Iowa.**

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, its free, John A. Johnson, R.2, Pilot Mound, Ia.

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15, $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

SCALES' SNOW WHITE UTILITY White Wyandottes. Eggs for hatching, farm flock, $1 per 15; $6 per 100. Special pen, show birds, $2 per 15. N. W. Scales, Iowa City, Iowa.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $2 for 15, $3.50 for 30, R.S.Tennyson, Clarksville, Ia.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble, Mrs. M. C. Humphrey, Derby, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

EGGS from prize winning, good laying strain White Wyan., $1.00 per 15, $5.00 per 100. Address E. G. Pont, Atlantic, Iowa.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

SILVER Wyandottes exclusively. Bred for winter laying from prize-winning stock. Eggs from utility pen $2 for 15. Trio Poultry Farm, Des Moines, Ia.

WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W. H. Tisley, Milo, Ia.

Partridge Wyandottes. The beauty breed; eggs for hatching from prize-winning birds. Write for prices. H. Nobiling, Perry, Iowa

R. C. White Wyandotte eggs, Duston strain; S. C. Buff Orpington, Martz and Adams strains, eggs $1.50 for 15. Address William Sommer, Perry, Ill.

S. L. WYANDOTTE eggs, high-scoring stock, Pens 1 and 2, 15, $1.50; 30, $2.50; pen 3, 15, $1; 30, $1.75. Address R. Palmatier & Son, Greene, Iowa.

PARTRIDGE Wyandotte eggs from high-scoring birds, hens up to 93¾, ckl. 94¾; pen 1, $2.13; pen 2, $1.50, 12. Circular. Edw. Meyer, Dyersville, Iowa.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

WHITE WYANDOTTES Eggs for sitting $1.50 per 15. My Wyandottes are better than ever. Address I. J. Hay, Mingo, Iowa.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address E. S. DYAS, Bellevue, Iowa.

SILVER LACED WYANDOTTE eggs from high-scoring birds 15, $1.50; 100, $4. C. W. Perkins, Fairmont, Nebraska.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices, R. B. Rowe, Indianola, Ia.

R. C. Golden Wyandotte Eggs $4 and $5 per 100. F. E. BEAN. - - REASNOR, IOWA

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please; $5 per 100; $1.50 for 15. **Mrs. F. O. Elliott, Kent, Iowa**

PARTRIDGE WYANDOTTES Bred from state fair winners. Beauty and utility. Eggs $2 per 15. E. R. Herrick, Glenwood, Iowa.

EGGS from extra choice, large, vigorous, pure White Wyandottes, farm range. $1, 15; $5, 100; special pen, $2 per 15. Mrs. Geo. Roe, Bellevue, Ia.

White Wyandotte Eggs, $1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone, Address Ethel H. Shaw, R. 6, Newton, Iowa.

PARTRIDGE WYANDOTTE EGGS. Fancy Buff Wyandottes. Order now. Thos. L. Morlan, Indianola, Iowa.

ROSE Comb Silver Laced Wyandotte Eggs from pen, $1.50 per sitting of 15. $2.75 for 2, $3.75 for 3. Address Mrs. P. F. Johnston, Elliston, Iowa.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

WHITE WYANDOTTE eggs for hatching from farm rauge, $4 per 100; 75c per 15; satisfaction guaranteed. Mrs. J. W. Kiesling, R.2. Cromwell, Ia.

A. E. STONEBROOK'S High-scoring Partridge Wyandotte eggs, $1.50, 15; Kellerstrass strain White Orps., $1.50, 15, Hampton, Ia.

Eggs Thoroughbred Partridge Wyandottes, R C. Brown Leghorns, S. C. Blk. Minorcas $1 up. Write J. A. Spangler, West Chester, Iowa.

White Wyandotte Eggs Pure-bred, free range, vigorous stock; $1.50 per 15, $5 per 100. Mrs. Eva G. McCoy, Prairie City, Ia.

White Wyandotte Eggs $1 per 15; $2.75 per 50; $5 per 100 from large farm range flock. Mrs. W. O. Harris, R. 6, Muscatine, Ia.

White and Silver Laced Wyandotte Eggs, 15 for $1 100 for $5 Address Malmberg Bros., Route 4, Red Oak, Iowa.

WHITE WYANDOTTES EXCLUSIVELY

EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

SQUABS.

SQUABS, large profits. I have the finest lot of breeding homers for sale I have ever offered. Send for price list. Joe F. Nolan, Ruthven, Iowa.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address R. R. STEWART, R. 2, Charles City, Iowa.

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address DAVENPORT & MACK, Belmond, Iowa.

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00; 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address R. S. Ketcham, Box H, Boonville, Indiana.

S. C. W. LEGHORNS

COCKERELS all sold. Eggs for hatching. We are getting on an average of 100 to 125 eggs a day. J. M. Williamson, R. 1, Des Moines, Iowa.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93¾. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs. Will Michael, Selma, Iowa.

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 A. B. JORDAN, - - Moravia, Iowa.

S. C. W. Leghorns; eggs from a strain with blood lines well established; $4.00 per 100, $1.00 per 15. Also fancy imported pen (Campbell strain of Canada) $2.50 per 15. Address Geo. Gaul, Tipton, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

RoseCombBrownLeghorns

20 eggs $1; 50, $2; 100 $3.50. 18 yrs.' experience. Orders filled promptly. Ella Tharp, Mt. Sterling, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

S.C. and Rose C.B. Leghorns Trapnested 12 yrs. Eggs $1.00 per 15; $5.00 per 100. Fairview Farm, West McHenry, Ill.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

S.C.BUFF LEGHORNS Eggs from high-scoring, prize-winning stock $1.50 per 15, Ckls. for sale, $5 each. R. E. Colburn, Weyauwega Wis.

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 and $4.50 per 100. Eggland Farm, Mt. Vernon, Iowa.

S.C.BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris&Norris, Grinnell, Iowa.

S. C. W. LEGHORNS. Pure white, persistent layers. Eggs, $1.50 per 15; $5.00 per 100. Geo. S. Phillips, Tecumseh, Nebraska.

S.C.B.LeghornEggs 75c per 15, $3.50 per 100. Baby chicks $12 per 100, farm range. Address Mrs. B. M. Painter, Lewis, Ia.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100. From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

LEGHORNS Extra white, Rose Comb, winter layers; eggs 15, $1; 100, $5.00, postpaid. J. W. Osborn, Hanlontown, Iowa.

R.C.Brown Leghorn Eggs $1.00 per 15; $4.00 per 100; $7.50 per 200. Address C. H. & J. E. Bauman, Pella, Iowa.

Eggs For Hatching S. C. White Leghorns exclusively, 15 for 75c, 30 for $1.25, 100 for $3.00. Address Gilford Pitcher, Earlville, Ia.

ROSE COMB BROWN LEGHORN, pure-bred, eggs $1 per sitting. $3 per 100. Price on full case. Address MRS. LAURA MATHER, Clarksville, Iowa.

R. C. W. LEGHORN EGGS $1.00 for 15; $4.00 for 100. From prize-winning stock Address Ben R. Poortinga, Cordova, Iowa.

RoseCombBrownLeghorn Eggs 50c per 15; $3 per 100. Address Plowman Bros., Douds Leando, Ia.

R. C. W. LEGHORNS

Eggs, 15 $1, 100 $4. Peter Reinbold, Clarksville, Ia.

S. C. Brown Leghorn Eggs from scored farm range stock. 50 for $2.00, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

SINGLE COMB WHITE LEGHORN EGGS Pen 1, 15, $5; pen 2, 15, $1.50; 100, $4. W. W. PERRY, NEW HARTFORD, IOWA.

SINGLE Comb Brown Leghorn eggs from silver cup winners. Fawn and White Indian Runner ducks. Write. Mrs. Clyde Nelson, Birmingham, Ia.

S. C. W. Leghorns, Young's. Eggs exhibition matings $2.50, $1.50, $1 per 15; $5 per 100. Chicks $12.50 per 100. Cir. Mrs. Wilson McIntyre, Red Oak, Ia.

R. C. Brown Leghorn Eggs for hatching. Farm range. Males from high-scoring stock. 15, 75c; 100, $3.50. Mrs. Nelson Hyde, Manson, Ia.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points, 75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

stock to readers of our paper. When writing mention this paper and address H. B. Francisco, Hastings, Neb.

—Read the advertisement of O. N. Woody, Newton, Iowa, offering Buff Plymouth Rock eggs for sale, that appears elsewhere in this department.

—The advertisement of H. C. Schrage, Bristow, Iowa, breeder of Silver Spangled Hamburgs, offering eggs for sale appears elsewhere in this department.

—Frank B. Caldren, Clarksville, Iowa, has eggs from high-scoring, dark red, low-comb Rose Comb Rose Island Reds, on which he is quoting prices from two different pens in his advertisement that appears elsewhere in this department.

—L. Tieden, Elkader, Iowa, is offering Single Comb Black Minorca eggs for sale in his advertisement appearing elsewhere in this issue. He writes: "I have as fine a lot of Single Comb Black Minorcas as you can find. They are bred for size and laying qualities."

The advertisement of E. W. Day & Son, Kellogg, Iowa, breeders of Duroc Jersey hogs, appears on page —of this issue of The Homestead. They are offering fall boars for sale sired by Queen's Chief 12633 and out of dams by Stout's Advancer 63503 and Double Wonder II 100625.

—Alex Peterson, Pomeroy, Iowa, writes that he has high-scoring cockerels at the head of both of his Black Langshan pens, and that he has been a breeder of this strain of chickens for over sixteen years. In his advertisement elsewhere in this issue will be found prices on eggs.

—Mrs. Wm. Stoll, breeder of Barred Plymouth Rocks, Storm Lake, Iowa, writes: "I have three fine mated pens, headed by first prize winners. I also won diploma last fall for best Plymouth Rock cockerel at Storm Lake." See advertisement offering eggs for sale elsewhere in this department.

The advertisement of Mrs. Clyde Nelson, Birmingham, Iowa, in which she is offering Single Comb Brown Leghorn and Fawn and White Indian Runner duck eggs for sale, appears on page 13 of this issue. Those who want eggs from either of the above varieties should write Mrs. Nelson for prices.

—Theo. Martin, Bellevue, Iowa, in remitting for advertising already done, writes that he has the best flock of Barred Plymouth Rocks this season he has ever had. Also that he has added five of the best cockerels that he could find and his poultry business is increasing 100 per cent annually. See advertisement elsewhere in this issue.

—C. & C. T. Van Lint, Pella, Iowa, in their advertisement elsewhere in this issue, ask Homestead readers to send for their catalog and learn about their strain of Buff Plymouth Rocks from which they are offering eggs for sale. Their Plymouth Rocks have always been winners at state and other leading poultry shows. They also have Rouen duck eggs for sale.

—J. O. Becker, Chariton, Iowa, has four pens of Barred Plymouth Rocks (two cockerel and two pullet matings) from which he can furnish Homestead readers with eggs at prices named in the advertisement appearing elsewhere in this department. Mr. Becker has been a breeder of Barred Plymouth Rocks for twenty-five years and keeps his flock up to the standard requirements.

Eggs and Baby Chicks.

—Elsewhere in this department Mrs. L. C. Reese, Prescott, Iowa, advertises Barred Plymouth Rock eggs and baby chicks for sale and she has one of the best flocks in the West. These are from the best prize-winning stock of the celebrated Bradley breeding and she has eggs for both cockerel and pullet matings. Everything in her flock are high-scoring birds, so you get the very best when you order of Mrs. Reese. Write for her free circular at once and send her your order.

A Roup Preventive.

In all classes of live stock raising, proper methods of preventing disease are more important than cures. Good sanitary conditions must be obtained and in order to do so it is necessary to make use of some preparation which will purify and assist in the eradication of disease germs. In the raising of poultry B.-K. advertised on page 21 is recognized as a non-poisonous germ destroyer and disinfectant. It is easy to use and it is inexpensive. Samples may be obtained by writing to General Purification Co., 501 Pioneer Bldg., Madison, Wis.

Turkeys and Buff Plymouth Rocks.

The engraving which appears below shows a pair of Rouen ducks bred by H. Schehl & Sons, whose advertisement will be found on page 22. The Messrs.

Schehl also breed Buff Plymouth Rocks and White Malines. Their ducks have size, good-laying qualities and excellence of color. They have won many premiums at the Chicago Poultry shows and other exhibitions. For price list and account of winnings, write to H. Schehl & Sons, Prophetstown, Ill.

LEGHORNS.

Single Comb Brown Leghorns

I HAVE a fine pen and a good farm range flock of birds which score as high as 93 points. Eggs for hatching $1.25 per setting or $4 per 100. Write for mating list. Earl Bloom, Bridgewater, Iowa.

ROSE COMB BROWN LEGHORNS, large, vigorous stock, strictly pure bred, have true Leghorn type, from best strains of layers known to breed. Eggs high fertility, carefully packed, 15, $1; 50, $2.25; 100, $4. Write Geo. Boyce, R. 3, Newell, Ia.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

PRIZE-WINNING Standard Line-Bred Single Comb White Leghorns. Bred for the heavy production of large, clear white eggs as well as standard requirements. Hatching eggs and baby chicks for sale. Address C. E. GROFF, Guernsey, Iowa.

EGGS---ANY NUMBER S. C. White Leghorns. Great layers and winners. Choice yards and farm flock. As good as grow. Free catalog. Mary Culver, R. 1. King City, Missouri.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $3, 100. I. R. D. eggs $1.25 setting, $5. Farm range $4, 100. Address, Mrs. G. W. Brockway, Clarksville, Iowa

BUFF LEGHORNS Single Comb, farm range, 30 eggs, $1.50; 50 eggs, $2; 100 eggs, $3.50. Address Adella Hillman, Lockridge, Iowa.

S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1.50; 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

S. C. Brown Leghorn Eggs 50c per 15. Good farm range stock, $3 per 100. MRS. BERTHA MOYLE, HILLSBORO, IOWA.

SINGLE COMB BUFF LEGHORNS EXCLUSIVELY Eggs, $3.50 per 100. Chas. F. James, Lockridge, Ia.

EGGS for sale from pure-bred R. C. B. Leghorns, have free range and good healthy stock. $3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

LAYING strain R. C. Brown Leghorns. Bred for winter laying. High-class stock. Eggs, $1 for 15; $4 per 100. Address Geo. N. Urice, Vinton, Ia.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

EGGS for sale from vigorous, farm-raised S. C. W. Leghorns, $1 per 15, $5 per 100. Parcel post or express prepaid. Address A. R. Cochran, Anita, Ia.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock, $2 per 60, $3 per 100. Mrs. Chas. Lasley, Floris, Ia.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

R. G. McDUFF'S Black Langshan eggs for hatching; from one of the best flocks we have ever owned. 3 pens and range flock. Scoring from 91 to 96 points. Write for prices. Monroe, Iowa.

GOLD MEDAL STRAIN

BLACK LANGSHANS, high-scoring birds; eggs $1.50 per 15. Address A. KOOL, Cordova, Iowa.

BLACK Langshans, winners Keosauqua, Ottumwa, Fairfield; score 93-95. I. R. Ducks, score 95-97½, farmers' prices, cir. Bert A. Randell, Mt. Zion, Ia.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

Langshan Eggs Large black eggs from stock scoring to 94. $1 per 15, $2.75 per 50, $5 per 100. Mrs. Geo. Tutt, Marathon, Iowa.

BLACK LANGSHANS Large-boned cockerels $2.00 each. Three $5.00 Eggs in season. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

Black Langshans Ckls. all sold. I am booking orders for eggs now. Birds scoring 90 to 95 points. CAP OAKS, Adair, Iowa.

BLACK LANGSHAN EGGS for hatching. Fine, large-boned, farm stock. 75c per 15 or $4 per 105. Mrs. Jacob Conner, Sigourney, Ia.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

Langshans Choice high-scoring, separate pens. $1 per 15, $3 per 50, $5 per 100. Alex Peterson, Pleasant View Stock Farm, Pomeroy, Ia.

EGGS from full blood Black Langshan. Stock unusually large. Good winter layers. 15 for $1. Orders filled now. Mrs. Chas. Banks, Carlinville, Ill.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

BABY CHICKS.

Baby Chicks 4 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A, Chatfield, Ohio

SINGLE COMB BROWN LEGHORN baby chicks $12.00 per 100. Let us book your order now for future delivery. E. A. Kauffman, Lockridge, Iowa.

BABY CHICKS from fancy S. C. W. Leghorns, high-scoring, 10c each. Eggs $1.00 per sitting. M. E. La Shorne, Epworth, Iowa.

BABY CHICKS. Speak quick for early hatches. Pure-bred R.C.R.I. Reds 10c ea. Buff Orps., prize-winners, 20c ea. Mrs. L. M. Russell, Danville, Ia.

ANCONAS.

Pure-bred S.C.Ancona Eggs for Sale

$1.75 for 15, pen No. 1; $1.25, pen No. 2. Special prices for 50 or more. L. B. Anderson, Botna, Iowa.

Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

MINORCAS.

S. C. BLACK MINORCA EGGS FOR HATCHING 50c and 75c per 15. L. Tieden, R. 2, Elkader, Iowa.

BLACK MINORCA Eggs in season, 15 for $2. 30 for $3.50, 60 for $5.00. Address H. L. Simpson, R. R. 13, Epworth, Iowa.

MINORCA EGGS for sale from prize-winning pens of Rose and SingleCombs. Elmwood Poultry Farm, Blakesburg, Ia.

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific. $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia

MISCELLANEOUS.

Dripps Has Fine Poultry

WHITE ROCKS Fishel strain. Eggs from show birds $3, $5.
BARRED ROCKS Eggs from Dripp's finely bred show birds. $1 per 13; $5 per 100.
WHITE LEGHORNS Eggs from Dripp's finely bred snow white show birds of best laying strains, $1 per 13; $5 per 100. Send me your order, mentioning The Iowa Homestead. Address JOHN I. DRIPPS, Springville, Iowa.

CHICKS 10c; DUCKS 20c UP
Eggs Reasonable

IN hundred lots. See free circular. White Leghorns, Barred Rocks, Light Fawn, also English Penciled Runners. White eggers. Winners 16 best ribbons Burlington, Galesburg. R. O. Dickson, Premium Poultry Farm, Box 30, LaHarpe, Illinois.

EGGS FOR HATCHING

WHITE Langshan and Rock chickens, $1 per 15, $5 per 100. Embden and China geese, $2.50 per 10. Mammoth Pekin and Muscovey ducks, $1.50 per 13. Address

Mrs. J. F. Stolley, Granville, Sioux Co., Ia.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96½ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS---BARRED ROCKS. BRONZE TURKEYS---EGGS

BARRED ROCKS, special matings. 15 eggs $2; 30 eggs $3.75; 45 eggs $5. These pens are headed by 9½ and 10½ pound ckls. Eggs from farm range flocks $1.50 per 30; $4 per 100. I. R. duck eggs $1.50 per sitting 15; $7.50 per 100. M. V. Leeper, Redfield, Iowa

1000 prizes won with our 40 leading varieties raised on different farms. Chicken eggs, $1.00 for 15; $4.00 for 100. Turkey eggs, $3.00 for 10. Geese eggs, $2.00 for 10. Also duck and guinea eggs. Address Premium Poultry Yards, R. F. D. 6, Newton, Iowa.

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

Quality Poultry Yards offer eggs and baby chicks from White and Buff Orpingtons, White and Barred Rocks, S. C. White Leghorns, White Wyandottes, S. C. R. I. Reds. All eggs tested with Magic egg tester. Write for catalog. J. H. Swink & Son, Box O, North English, Iowa.

KEEP YOUR CHICKENS HEALTHY

WITH GERMIKIL (the great roup and white diarrhoea remedy). CATALOGUE FREE. AYE BROS., Box 1, BLAIR, NEBRASKA

EGGS FOR HATCHING From scored, thoroughbred, Orps., R. I. Reds, Plymouth Rocks, Leghorns, Wyandottes, Andalusians, Pekin Ducks, $1.50 up. O'DONNELL POULTRY FARM
Box 1022 Valley Junction, Iowa

EGGS FOR HATCHING

BY 100 or setting. 8 popular varieties chickens. 3 varieties of ducks, geese, turkeys. Write for prices. Seward Co. Poultry Associat'n, Beaver Crossing, Neb.

EGGS FOR HATCHING

From 21 Leading Varieties of Chickens.
AYE BROS., Box 1, Blair, Nebraska.

Wyandotte and Turkey Eggs

WYANDOTTE eggs, $1 per 15, $5 per 100. White Holland turkey eggs, $2.50 per 10. Address A. J. Menefee - - - Adair, Iowa.

EGGS Barred, White, Buff Rocks, R. I. Reds, W. Wyandottes, B. Langshans, L. Brahmas, B. Orpingtons and Leghorns. $1.25 per 15; $5 per 100. Toulouse geese $1.75 per 10. White and Bronze turkeys $2 per 7. Monroe Poultry Yards, Monroe, Ia.

EGGS for hatching—White Faced Black Spanish, Silver Spangled Hamburgs, R. C. White Orpingtons, Rhode Island Whites, I. R. Ducks. Address SARAH LOWE, Clarksville, Ia

EGGS from high-scoring stock. White Wyandotte, Kellerstrass, White Orpington and Buff Orpington. $1 per 15; $5 per 100. Fawn and white I. R. ducks, $1.25 per 13. A. G. Dreher, Audubon, Iowa.

EGGS Barred Wh. Buff and Partridge P. Rock. Buff Orpington, White Wyandotte, S. C. R. I. Reds, and Mammoth Bronze turkeys. Free catalog. Address A. D. Murphy & Son, Essex, Iowa.

100 RIBBONS WON IN 1912 Buy of the winners. Best quality. Prices right. S. C. Brown Leg., S. C. R. I. Reds, W. Wyn., Pekin ducks, fancy pigeons. Vern Argo, Tipton, Ia.

EGGS for hatching; S.S. Hamburgs, R. C. W. Orps., P. Wyandottes, Mottled Anconas Buff Leghorns, I.R. ducks. E.E. Calvert, Shellrock, Ia.

EGGS for hatching from White Feather Poultry Yards. High-scoring W. Wyan. W. H. turkeys. Book orders early. Mrs. C. F. McLochlin, Gray, Ia

EGGS. Matings E. B. Thompson Imperial Ringlets at $3, 15; W. Rocks, S.S. Hamburgs, $2. 15. Embden geese eggs 20c ea. Mrs. H. E. Brown, Corning, Ia.

SILVER Laced Wyandottes, Barred and W. Rocks, R.I. Reds, Orps., W. Crested Black Polish. Stock and eggs for sale. Wm. Neiers. L. B. 45. Cascade. Ia.

Thoroughbred poultry eggs. R. C. S. L. Wyn., R.I Reds. Either pen $1.50 per 15. Farm range Wyn 100 $3.50. Rouen duck 11 $1. Jos. Reber, Shelbyville, Ill

This rat destroyed over one dollar's worth of property last year. Every other member of his tribe did as well. How much disease they spread no one can tell.

The farmer is one of the worst sufferers from their depredations. They make his corn crib their headquarters; they burrow through his silage and ruin it; they gnaw through the floors of his barn, granary and poultry house; they hide under his board walks or wooden floors or in his cellar.

There is only one effective way to stop the rat. Build of concrete. Rats cannot gnaw through or climb up concrete. There is no nesting place for them under concrete floors. Any structure built of concrete is proof against them.

When you build of concrete always specify

UNIVERSAL PORTLAND CEMENT

It is uniform in color, quality and results. Let us help you with your concrete work. Send for our free book, "Concrete in the Country."

Universal Portland Cement Co.

CHICAGO 112 West Adams Street — PITTSBURGH Frick Building — MINNEAPOLIS Security Bank Building

Plants at Chicago and Pittsburgh. Annual Output 12,000,000 Barrels

Why He Prefers The BEATRICE Cream Separator

Farmer Onswon says:

Years of experience have taught me one indisputable fact: There is only *one* separator which combines high quality with moderate price—that is the BEATRICE. Most every farmer is aware that the average high-grade separator of big capacity costs from $100 to $110. My BEATRICE, with 1000 pounds capacity, cost me $75. Why pay more? There is no better machine.

Less than 2 minutes is all the time it takes to clean the machine with the patented device. It will leave the machine thoroughly clean and sanitary. Try it and see.

My BEATRICE beats any machine I ever had for easy running. Then, the close skimming. Why, I've let skimmed milk stand for a day and a half and you couldn't find a speck of cream on it. And—I haven't done so little repairing since I owned a separator. That's a point *you* want to consider.

The BEATRICE is a guarantee of separator satisfaction. That's what you want. Ask your dealer or write for booklet to the nearest address below. 600 lbs. capacity, $55. 800 lbs. capacity, $65. 1000 lbs. capacity, $75.

THE BEATRICE CREAMERY COMPANY

Chicago — Lincoln, Neb. — Des Moines, Ia. — Dubuque, Ia.

Build Your Crib High!

And, at the same time, put in an old reliable Schroeder Upright Driveway Elevator. Save time, save trouble, save expense, and get more for your grain by holding out for highest prices. With a Schroeder Elevator built right into your crib one man handles all the work easily in any position.

It's wider than any elevator made and will carry more grain. It's built right, down to the very bolts. And you can use it anywhere in very short order.

Get an Old Reliable **SCHROEDER** Upright Driveway Elevator

It is the first grain elevator ever made and has never been approached by imitators. It leads the field in every way—in make, in capacity, in sales. For engine or horsepower.

Up-to-date crib plans with detailed drawings, specified bill of lumber with estimated cost, mailed to you free.

ASK US FOR THEM NOW

FREE BOOK on request. Tells all you want to know about Grain Dumps and Elevators. Get a copy today.

H. V. SCHROEDER MFG. CO. 150 Third Ave., Minier, Ill.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE CALVES FROM THE BEST COWS.

Dairymen, like every other class of producers, sometimes get into a rut. We have known instances where year after year the entire crop of dairy calves has been sacrificed for the simple reason that the owner felt that it paid better to utilize his feed for producing animals, trusting to luck as it were, and his own judgment in keeping up his herd by outside purchases. We are not prepared to say that this plan is never a justifiable one, but we do say that in the majority of instances it is not a sound policy. A heifer calf from a high producing cow whether she is a grade or a pure bred ought to be tried out in the dairy. If sired by an animal that is bred along dairy lines there is always a possibility of taking a step forward because the daughter may be a better milker than a dam. In his recent work on dairying Prof. Charles B. Lane takes up this matter and points out that the expense of raising a calf is relatively so small that there is little excuse for sacrificing calves of good cows. On this point he says:

It is a mistaken idea that it costs too much to raise cows. The Illinois Experiment Station carefully investigated this subject by raising forty-eight calves. Records were kept of twelve at a time during four different periods. It was found that they could be successfully raised on 150 pounds of whole milk costing $1.50 and 400 pounds of skim milk costing $1.20. This milk was fed at the rate of ten pounds per day until the calves were fifty days old, when it was gradually lessened to one pound per day for ten days, when no more was fed. Only the ordinary grains which the farmer produces and a good quality of legume hay were fed, showing that the dairyman can raise a calf in this way with little trouble.

Successful dairymen state that they raise heifer calves at a cost of $18 to $20 up to the time they are two years old, and frequently sell them for $50 at this age. Even if it cost twice the above amount to raise them there is a good margin of profit. This is a good business proposition and shows that it is better to raise cows than to buy them.

That the dairyman should raise his own cows is one of the fundamental elements of profitable dairying, and the lack of application of this principle is responsible for a large per cent of the poor herds in this country.

While we are not prepared to confirm wholly the statement that a calf can be raised on 400 pounds of skim milk and 150 pounds of whole milk in addition to a grain ration, yet the data given by Professor Lane is no doubt approximately correct. We believe in keeping up the milk supply until the calf is five or six months old, particularly when skim milk is used, but even when this plan is carried out the additional cost of raising the calf does not then become a very important factor.

Men who have become expert in judging dairy cattle eventually acquire a knowledge that enables them to detect a good milker among the heifer calves, so that if good judgment is used selection may be made in such a way as to almost insure the development of a heifer into a profitable cow. Whether she is to be an exceptionally large producer or not remains to be seen when she is put to her tasks, but with a good dam to begin with, a sire of dairy proclivities and with the appearance of a producer in her favor it amounts almost to an unpardonable blunder if such a calf is vealed.

USING MUSLIN CURTAINS IN DAIRY BARN.

To the Editor of The Homestead:

From years of experience in keeping cows I have found that about the greatest problem to meet is the question of proper ventilation without having the wind blow directly on the animals, and at the same time keep the dampness out of the barn.

Three years ago I decided that the curtain would answer the same purpose in the dairy barn that it would in the henhouse and following that decision I began the use of muslin curtains and have found them quite satisfactory; in fact, I would not give them up.

These curtains may be installed by

The Hinge Door Silo

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Has doors that you never have to take out, but instead can open and close on hinges. Doors can't sag, stick, bind or freeze in, yet are always air-tight, and protect the silage from freezing in winter and drying in summer.

Big, extending malleable hinges form a safe and convenient ladder—steps 15 inches apart, 17 inches wide and 7 inches deep.

Positively highest grade material and construction.

Send your name quick for copy of our book telling about Hinge-Door, and

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The splendid silo manufactured in Lansing, Mich. Now sold exclusively by us. Finest construction. Your choice of two excellent silos in one book.

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Cost only half as much as the milk raised calves. Increase your profits by using

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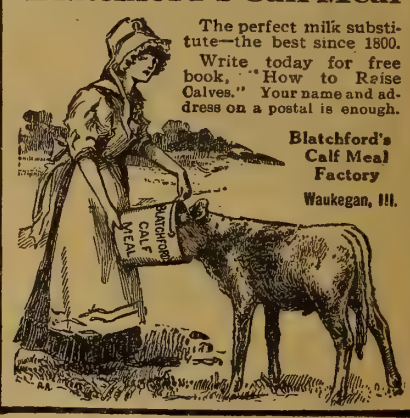

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Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

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Home Town; a Silo hooped like a water tank. Kalamazoo Galvanized Door Frame, Clear Cedar Doors. Never require paint nor insurance; is fire and frost proof. Will be sold so that it earns its cost before the

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"make good" because they're made good. And they've been getting better every year for 15 years. If you want to be treated right, order a Kalamazoo now. We prepay freight. Get our catalog; it tells the whole story. Address Dept. 96.

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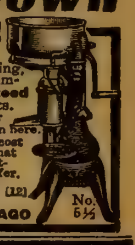
$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. **Guaranteed a lifetime.** Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.



30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half. (12)

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No. 6½

Russell's Holsteins will change your feed
Into the dollars that you much need.
They'll enrich your meadow and start the clover
And soon your farm will be rich all over.

Fills 60-ft. Silos With Ease!

The day of the skyscraper Silo is here. No Silo too high for the Smalley! Mr. H. E. Williams, Clinton, Wis., says: "The Smalley No. 18 Force Feed cutter with chain drive blower did fine work. We filled one silo 14x36 feet in 8 hours with 8 teams hauling the corn." When C. I. Cook, Menominee, Mich., wanted to fill the 4 biggest Silos in the U. S. he got a Powerful "Smalley." Real business farmers like Messrs. Williams and Cook have no time to fool with the old slat-apron type of machine. They want this **force-feed chain-table, grip-hook** kind, made by Smalley only. Thus they save a **tremendous** amount of work and do a **quicker, cleaner** job. No coarse, uneven silage. All **uniformly** cut. Which means greater tonnage per silo.

POWERFUL SMALLEY FORCE-FEED SILAGE CUTTER

not only handles green silage, but is also a wonder at cutting dry feed. Handles alfalfa, for instance, to perfection. Letters in catalog prove it. Many farmers use their **Powerful "Smalley"** to cut corn in the fall and oats and peas in the spring for feeding when pastures dry up in July. Only one drive pulley on Blower outfits. No idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

You won't know what a real Silo Filler is till you've seen the **Powerful "Smalley"** or had the Smalley Catalog. Why not send a postal this minute for the latest Smalley Catalog and learn about the Silage Machine that four out of five silo owners now use? Write **now** and you'll get this fine, useful Book **by return mail.**

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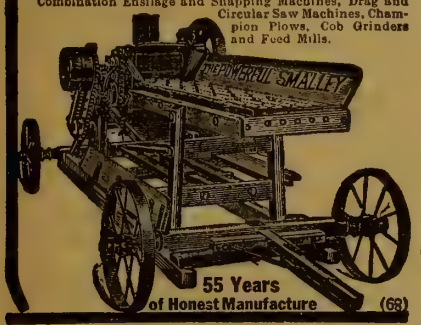
Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters, Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Plows, Cob Grinders and Feed Mills.



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This portfolio free to you. It's interesting, it's instructive. It will prove profitable in many ways because it tells the secret of big profits others have made. It contains suggestions that will help you make profits feeding ensilage

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A silo is a permanent investment if you get the right kind. Before you buy, investigate carefully. Find out all about the Champion, the real silo with more improvements than any other. Has solid steel interlocking door frame, malleable lugs, combination latch and ladder, solid steel anchors, heavy steel inside hoops.

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Just send a post card and say when you will be ready and that you want proof that Champion is best. We will do the rest. Address, WESTERN SILO CO., 109 11th St., Des Moines, Ia.

Your Dealer Wants Spot Cash for "STANDARD"

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And it is to your advantage that he does. He pays cash for the "STANDARD" and sells it for cash to save you money. You get mail order price but *not* a mail order product. It is strictly a quality machine.

Capacity	Our Offer	Reg. Price
500 lb.	$47.50	$ 75
700 lb.	$56.50	$ 90
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Sold Only Through Dealers

Guaranteed to last as long and skim as close as any hand separator made. *Try it free* on your own farm. Our money back guarantee goes with every machine. See the "STANDARD" at your dealer's or write for Catalog T.

Standard Separator Co. 317 Pereles Bldg. Milwaukee, Wis.

Better be a little wise,
And attend the Russell Sale.
Better hark the auctioneer's cry,
And get a Holstein without fail.

removing some of the windows and substituting frames on which the muslin has been securely tacked. It should not be supposed, however, that the muslin allows anything like free play of the air. The thermometer may show the temperature to be two or three degrees lower than before the curtains were installed, but I find that it invariably feels ten to fifteen degrees warmer and the animals appear quite comfortable and contented. The result of this practice in my barn is just simply the difference between fresh, dry air and damp, stale air, with a much more sanitary and healthful condition.

The principle is exactly the same as that worked out in the poultry house. Even when a poultry house is kept as warm as absolutely tight doors and windows can make it frequently the walls will be seen to be covered with moisture. This condition usually results in sick hens and I have found that the same holds true with cows. Damp cow barns are the best breeding places for all kinds of disease and I think the adoption of the muslin-curtain system will do much toward solving the problem of disease among cattle, especially milk cows.

These curtains admit the air, but not the wind and there are no drafts as is the case with open windows. Standing a foot or two from the curtains one would hardly notice that there is any entrance of air. I find it best to have some glass too, for while the muslin admits the light freely, it does not admit the sunshine. For that I have enough windows to admit plenty of sunlight and then have my muslin so arranged that it will admit plenty of air without causing any drafts. Roy Coleman.

THE COST OF MILK.

Officials of the United States Department of Agriculture and others who have reasons to know, agree that the average dairyman supplying a city trade is not being paid enough for his milk. With prices of land, labor and feed as high as they are, it is impossible to produce good milk cheaply and it is equally true that good milk is worth as a food the price which is generally asked for it.

One of Wisconsin's best known and most experienced dairy farmers, W. J. Dougan, is producing and distributing a bacterially clean milk at a price of ten cents per quart to the residents of a southern Wisconsin city. Although this is considerably more than is being paid by the average consumer, Mr. Dougan finds it close work to make his dairy farm pay the profit which it should. He has recently written us as follows:

As I watch the struggle upon the milk supply of our large cities I am impressed with three facts. First, that it is impossible to produce a wholesome and safe milk at the price now being paid for market milk. From experience I know that it takes brains, muscle, capital and eternal perseverance to produce and distribute a clean milk. I am producing and distributing a bacterially clean milk at ten cents per quart to the residents of a city of about 20,000 people and I find it close work to make good at that price. Secondly, that bacterially clean milk because of its natural food value is a cheap food even at an increase over the present market milk prices. It is easily prepared and is readily digested. One quart of this milk is in fact equal in nutrients to three-fourths of a pound of beef steak and is worth considerably more when we consider the cooking expense and the waste with the steak and third, that the great need of the milk supply problem is to create a discriminating taste on the part of the consumer. He not only needs to discriminate both between good milk and bad milk, but also between milk and other foods. Much milk finds a too ready sale even among the intelligent classes, which is so consumed by bacteria that it is worse than worthless. It is poisonous. When the consumer knows what he wants and knows when he gets it and is willing to pay a living price for it, there will be plenty of intelligent and conscientious producers and distributors to supply their demand at a just price.

It seems to me that the press could do a larger service by decrying some of the real foes of babies, rather than to exhaust themselves complaining of the prices asked for milk. I make this standing offer. I will furnish every family in any liquor licensed town or city with all the milk and butter they can use without stint or limit if the city will pay me what is now expended for drink and tobacco by its residents. I have offered to feed the baby of a smoker, who said he could not afford to buy good milk, if he would give me what he daily spent for tobacco. He would not do it. I have had, among my patrons, a well-to-do family which was taking a whole pint of milk daily complain

DE LAVAL CREAM SEPARATORS

No Excuse for any Cow Owner Being Without One

There is no reason why any cow owner who sells cream or makes butter should be without a cream separator and there is no excuse why he should not have the best separator.

Any creameryman or experienced dairyman will tell you that a good cream separator will give you a great deal more and a great deal better butter than you can make with any gravity setting system, and equally, of course, more and better cream, if you are selling cream.

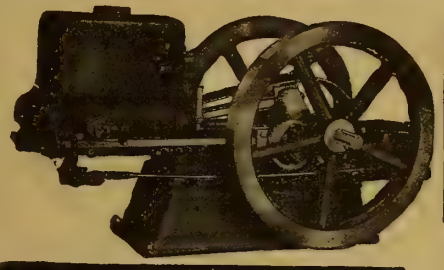
The DE LAVAL is acknowledged by creamerymen and the best posted dairymen the world over to be the **"World's Standard"** and the one and only separator that always accomplishes the best results possible and always gives satisfaction.

You cannot make the excuse that you can't afford to buy a De Laval, because it will not only save its cost over any gravity setting in six months and any other separator in a year, but is sold either for cash or on such liberal terms that it will actually pay for itself.

A little investigation will prove to you that the truth of the matter is that you really can't afford to make cream or butter **without** the use of a DE LAVAL cream separator.

The nearest De Laval local agent will be glad to demonstrate this to your own satisfaction, or you may write to us direct.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE



"INGECO" Engines

Get The Most For Your Money

The cost of a farm engine in the end depends upon the length of time it will last and its economy of operation. A good farm engine lasts a lifetime, always does good work, and costs but little to operate. By getting a good engine you save both money and trouble.

"INGECO" Farm Engines are not high priced, but in design and construction they are the highest grade engines made. Remarkable for their economy in fuel — on steady work they soon pay for themselves. Reliable, quick to start, simple to operate. They run as long as fuel is supplied.

FROM 1½ H. P. UP TO 60 H. P. PORTABLE, SEMI-PORTABLE, STATIONARY.

Write at once for the name of the nearest dealer and catalog describing "INGECO" Engines, and the reasons why you should consider this engine. By all means do not buy until you have found out all about "INGECO" Engines. The "INGECO" is the best all round farm engine made. It is the kind of farm engine you need on your farm.

International Gas Engine Company
152 Holthoff Place, CUDAHY, WIS.
(Suburb of Milwaukee)

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

When Writing to Advertisers Please Mention The Homestead

How do you handle your milk?

ARE you getting every cent, per quart, out of your daily milking? It's all a matter of method. When you know that you are disposing of your dairy products in the most profitable way—only then can you take the interest in your dairy that will make it a complete success. Make a comparison by actual figures of your present dairy earnings and what they would be with a

SHARPLES
TUBULAR CREAM SEPARATOR

This is easy to do. There is a Sharples agent near you who can quickly bring the facts down to a basis of dollars and cents. Have a talk with him.

He will demonstrate the Sharples to you—the unequaled skimming power of its wonderful tubular bowl—the bowl that has only 3 simple parts, which naturally makes the washing and cleaning a very simple matter.

To buy a Sharples is not an expense. You simply apply your money to a most profitable investment so that you make it over and over again, year after year.

And the Sharples name is your bond—as it has been for hundreds of thousands of farmers and dairymen for 32 years.

Write for our Separator literature. And if you do not know our nearest agent, mention the fact in your request.

THE SHARPLES SEPARATOR CO.
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Branch Offices: Chicago, Ill. San Francisco, Cal. Portland, Ore. Dallas, Tex.
Agencies Everywhere

If you milk twenty or more cows, the Sharples Mechanical Milker holds out wonderful new prospects for you. Write for catalogue.

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Pure-bred Registered
HOLSTEIN CATTLE

Holstein milk is of a special quality that is much in demand among progressive physicians, especially those interested in Infant Feeding.

Experts consider Holstein milk especially digestible because its average fat globule is less than half the size of those in ordinary milk.

This knowledge permits many persons who have never been able to use milk to give it an important place in their diet and producers of Holstein milk will have an advantage in the whole milk business.

Send for Free, Illustrated, Descriptive Booklets.

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HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.
THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

Russell's Holsteins

Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

T. H. RUSSELL, - Geneva, Ohio

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented in bulls and heifer calves. Herd tuberculin tested

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HOLSTEIN COWS, HEIFERS, BULLS

250 head in herd. Also some very choice young bull calves. Write us, let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from eight to 12,000 lbs. milk per year. All stock registered; no grades.

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HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

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Registered Holstein Bulls

CHEAP to close out; five ready for service and seven 8 to 12 months old, sired by king of the butter king, King Segis Hengerveld, and the $10,000 milk and butter king. Prices $85 to $125. Address

Henry Glissman, Station B, Omaha, Neb.

GUERNSEY CATTLE.

WE NOW OFFER 30 HEAD

of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address

WILCOX & STUBBS CO., DES MOINES, IOWA.

of my price and buy six-cent milk because my milk was too expensive. I happen to know that the head of this family smoked more than $1 worth of cigars a day. I mention these incidents merely to show that people get what they want and are willing to pay for it.

It is incumbent upon the dairy industry to provide so wholesome a product that people will really want it and also to instruct the public in the value of milk and its manifold uses. Those engaged in dairying must eliminate waste, killing competition and all expenses which tend only to increase the cost of milk to the consumer without improving the quality of the product.

THE COLOR OF HOLSTEINS.

While it may be unfortunate for the breed to have inferior grades because of their black and white color regarded or known as Holsteins these markings are assets which breeders of this old and popular Dutch breed can ill afford to lose. That there is a decided tendency for Holstein specialists and those who imitate them to discard as breeding animals those showing much black and to use near white, though inferior stock is generally known and acknowledged. Four-fifths of the farmer dairymen who write to Malcolm H. Gardner, superintendent of the advanced register, for advice in the purchase of sires indicate a preference for animals light in color. When asked to explain this prejudice against the darker colored sires nearly all reply that they have noticed "Holstein breeders seem to prefer light colors in buying bulls to head their own herds."

So persistently are breeders and dairymen following this color fad that Superintendent Gardner has grave fears that it will furnish a serious problem for the breed in the future. To show the futility of this craze he points out that his records show that the great majority of the greatest cows of the breed have shown dark colors, that the great majority of the foundation stock imported from Holland had the black and white markings in nearly even proportions, that white is the most persistent of colors and the most difficult to breed off and that adherence to any fad is not only detrimental to a breed, but that it also has a tendency to narrow the market for stock of that breed.

THE BULL AND HIS VIM.

To the Editor of The Homestead;

A bull ought to have lots of vim in him. To show what I mean I will say that the bull we now have is so full of life that he can scarcely contain himself. When out of doors, he will fight every animal that comes near him. If he can do nothing else to work off his steam, he will pitch right into the side of the barn with his head. He was so vigorous in this direction that we had to take his horns off, much as we disliked to do it, and since then he has used his bare head to pretty good advantage since the sore spots healed.

Now the calves from that bull are fine calves. They begin right off to live and get around, and they are all healthy and thrifty animals. They take after their father in this respect, and I am very glad of it, for I consider life and vigor to be one of the best and most valuable characteristics a dairy creature can have.

I have seen bulls that did not seem to care whether school kept or not. I have, in fact, had some of these myself. They would stand in the stable with their heads down, and when out in the field their movements were slow and languid. They did not seem to have the vigor which it seems to me a perfect head of a dairy should have.

If I were buying a bull I would want to see him out of doors and watch him a little while before I decided whether to take him or not. If he jumped and ran and kicked up his heels, I would conclude that he thought life was worth living, and I would be favorably inclined toward him; otherwise not, whatever other good qualities he might display.

Because, the thrift of the bull has a wonderful sight to do with the success of the dairy. Vim passes on from generation to generation, as a rule. "Like begets like" is a saying so old nobody knows where it came from, but it has a mine of truth in it.

We may well mistrust a bull that is weak and languid. He is not well. It may be tuberculosis or some other bad disease. And we want to keep just as far from any trouble of that kind as we can. I am not cranky on this point, and yet I do believe that we may do a great deal toward bettering our herds by using more care in the kind of a bull we use. Far too often we pay great attention to the stock of the cow, but pass the selection of the bull by lightly. If he came from good stock, that is about all we want to know. That is not right. What is the bull in and of himself? Has he the necessary qualifications to make him worthy to be at the head of a herd of cows? If not, we don't want him, cost what he may.

E. L. Vincent.

DON'TS FOR DAIRYMEN.

"More don'ts! Why don't you give us more do's? We are sick and tired of so many don'ts!"

Well, that is all right, of course; and yet, the don'ts I have in mind just now have not been harped on so that they are really to be classed in with those you possibly have in mind. Listen, and see if you think they are.

In the first place, don't think you know it all about dairying. Some men do get that idea into their heads and it just about spoils them as far as making any progress is concerned. The truth is, there is something for us all to learn.

And don't think you may overdo the matter. You won't burst your head with knowledge along this or any other line. Nobody ever did. Few of us ever reach anything like the limit in that direction. If the time ever comes when a man really does know so much that it hurts him, I want to see him. He will be a living curiosity, sure enough.

Still more, when we all get these two truths into our heads honestly and thoroughly we won't let any grass grow under our feet before we begin to do these other things: We will see what a mess we have made of it in the past. We have lived so far below our possibilities! We will then begin to inquire around for some better cows. We can find them, without any difficulty, for that is another thing few of us ever saw—the really and truly best dairy cow. Always room for one just a little better.

That cow will cost something. Don't let that worry you. Rake and scrape till you can buy for her and pay for her. It is not necessary to buy fancy stock. In fact, that is rather risky business. What we want on our farms is a good, practical, common-sense cow that comes within the range of our means to buy and that will and does do business on the square, giving her owner a good profit every year.

But last of all, don't let us stop with the cow. Let's get things to match—a real nice bull, some pails, cans and other implements such as are essential to better work than we have been doing. If we are making our milk up at home, a separator is fine

JERSEY CATTLE.

They Keep It Up

There are some cattle that give more milk when they are fresh than a Jersey, but there isn't any breed that gives as rich milk as

The Jersey

at as small feeding cost, nor is there any breed of cattle that will *keep it up* like Jerseys will, *year in and year out.* That's why you ought to buy Jerseys to increase your herd's efficiency. Send for Jersey facts.

AMERICAN JERSEY CATTLE CLUB
324 W. 23d St., New York

WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

The "STAY THERE"
Aluminum Ear Markers

are the best. Being made of aluminum they are lighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address

WILCOX & HARVEY MFG. CO.
Dept. A. 443 S. Dearborn St., Chicago, Ill.

thing to have. Then, too, there ought to be a house devoted especially to the care of milk. Few farms have this kind of a building; and yet, if we are going to run a model dairy farm, and that is what we would like to do, all these things belong to it. And biggest and best of all, we need, and must have to come anywhere near coming up to our day dreams, a model farmer to go with the model farm.

SILAGE TO SUPPLEMENT PASTURE.

Although spring pasture has a very stimulating effect on milk and butter fat production, this increase is always greater when hay and silage are also fed than when pasture constitutes the entire ration. Such has been the experience of George C. Humphrey, of the Wisconsin College of Agriculture, who has charge of the University of Wisconsin dairy herds. He declares that where cows are confined to a barn and yards until pastures are far enough along, they may refuse to eat the hay and silage, but ordinarily they will readily partake of these supplementary feeds. For the past nine years is has been noted that as a rule more than three-fourths of the university herds lose in body weight during the first two weeks they are turned out to pasture. This shrinkage has generally varied in proportion to the amount of supplementary feeding. Two years when hay and silage were not fed in addition to the pasturing, a marked shrinkage in weight ranging from fifty-one to ninety-five pounds was observed.

FLY TRAPS IN STABLES.

To the Editor of The Homestead:

It will soon be time to begin war on the blood-sucking fly. My plan is to have the cattle sheds tight, all cracks well battened and a large entrance with good sliding doors. To take the place of ventilators have large fly traps on the ridge or highest part of the building. These fly traps can be very cheaply made with two-inch pine strips and common window screen. Have an opening from the shed up into the traps and when the cattle come in covered with flies drive them into the shed and close the doors tightly. This will make it dark in the shed except for the light which comes down through the traps and the flies will go up to the light, enter the trap and that is the last of Mr. Fly.

Frank E. Godfrey.

Cass county, Iowa.

Grading, Testing and Shelling Seed Corn.

By C. P Hartley, Department of Agriculture.

TAKE time by the forelock and get the seed corn and the corn planter ready for operation now before the rush of the other spring work. The soil and the seed are two prime requisites of a profitable corn crop. At this time of the year there are many days when weather or soil conditions prevent plowing or other field work, that can be profitably used in improving the quality of the seed corn. The seed supply can be improved in quality and productiveness by discarding the poor ears and the poor kernels.

The best time to grade seed corn is before shelling. The office of corn investigations of the United States Department of Agriculture proved by careful field experiments that an ear having kernels of undesirable shapes produces ears most of which have kernels of undesirable shapes. All ears that are undesirable for one reason or another should be discarded before making germination tests.

At this season for several years past a number of satisfactory means have been described for testing the germination of a few kernels from each seed ear. Those who have neglected to take good care of their seed corn may now find "dead" ears among their supply. In such cases it will be profitable to test the germination of each ear separately. Where well-adapted varieties are grown that properly mature before frost, poor germination has never been found among ears selected as soon as mature and cared for properly. Those who have given their seed proper care should pick out 100 representative ears and make a germination test of ten grains from each ear. If these ears germinate well it is not necessary to test the balance of the seed supply.

Before selling the small kernels should be discarded from an inch or more off the tips of the ears. Accurate field tests have proved these small kernels to be less productive than the fully developed kernels of the same ears. The thick, irregularly shaped kernels should also be discarded from the butts of the ears. These kernels produce satisfactorily, but their size or shape prevents the corn planter from dropping them satisfactorily. It is convenient to nub the entire supply of ears before the shelling process is begun.

Many farmers who plant twenty or forty acres of corn, carefully shell seed by hand and are profited by so doing. A few remarkably successful extensive corn growers shell hundreds of bushels by hand. Where much seed is required there is a strong temptation to run it through the corn sheller. Hand shelling is profitable for the small farmer and therefore more profitable for the extensive farmer. The sheller breaks or cracks some of the kernels and there is not the opportunity of examining kernels from different portions of each ear as in shelling by hand. After being nubbed the proper way to shell the seed ears is to shell by hand one ear at a time into a sieve that will let the chaff fall through and leave all the kernels from the ear in plain view for inspection. If unsatisfactory, all the kernels can be easily discarded and another ear shelled. The ears should not be shelled directly into the general seed supply for it would then be difficult to separate and discard the undesirable kernels.

If the corn planter gave trouble last spring better order a new one now. A poor corn planter is an expensive implement to use. Even though the planter dropped satisfactorily last year, it should be tested with this year's seed supply before planting time arrives. The kernels of a variety of corn frequently vary in size from season to season and different plates may be needed this year from those used satisfactorily last year.

Under favorable field conditions 10 or 20 per cent of the kernels or young stalks are destroyed. Where extensive plantings are made with first-class seed and thinning is impracticable about five kernels should be planted for every four stalks desired. Where help is obtainable that will attend properly to the thinning, it is more profitable to plant twice as many kernels as stalks desired and thin out the weak plants as soon as they become too large and hard to be destroyed by cutworms.

WORMS AND COLD.

One of our Nebraska subscribers, Mr. George B. Ham, gives the following description of his ailing hens:

My chickens are affected in this way: Their heads seem to draw back and quiver and some of them have a foam over their eyes. Part of them also have a diarrhea. They only live from two to four days. Their heads look red and healthy. Corn has been their only feed.

The foam over the eyes is only caused from a cold, but should receive immediate attention or it may develop into something really serious. Use an oil can to squirt kerosene into the nostrils and put a little permanganate of potash in the drinking water. These fowls were more susceptible to cold because they were in a run-down condition.

The trouble from worms is a more serious affair and prompt measures should be used. In many cases whole plants have been forced to go out of business from this cause.

Worms in small quantities infest the digestive organs of almost all fowls and animals, but in limited numbers do little, if any, harm. It is when their system becomes disordered that fowls are good subjects for the rapid multiplication of the parasites. Corn is a good feed if used in connection with other feed—oats, wheat, barley and green food, plenty of grit and crushed oyster shells. Some object to the use of oats, but there is small danger of the hulls piercing the crop if the fowl has access to grit.

The worms may be where they can be reached and they may not. In the latter case treatment is of no avail. As the trouble is infectious only that they pick them up from the droppings voided by the affected birds, it is advisable to treat the flock as a whole. Give one teaspoonful of Epsom salts and nine drops of turpentine for each three fowls after they have fasted all night. It may be given in soft feed or individually by pouring from a can bent to form a spout. Give no more feed until you get results then feed lightly of soft feed. Repeat every other morning for a week and after that give the salts once a week to keep the digestive tract cleaned out.

All droppings should be burned and if the yards could be moved to fresh soil it would simplify matters.

TUBERCULOSIS AGAIN.

One of our Wisconsin subscribers writes as follows:

I have a flock of Brown Leghorn hens, none over three years old, that appeared healthy until last September. Since then they have died one by one until I have lost about twenty. The first signs of the trouble are limping and combs get small and pale. Some live six or eight weeks while others die sooner. I opened a few and found the liver larger than natural and it was soft. The liver of another had large and small lumps all over it. My poultry have good care, such as is usually advocated by poultrymen and there has never been any previous trouble.

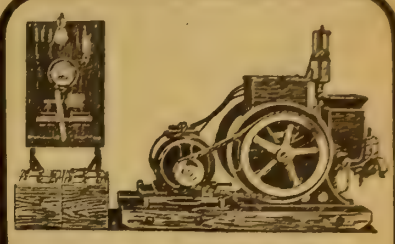
This disease exists in fowls long before any outward symptom is in evidence. Our correspondent has given us a very good statement of the facts which leaves no doubt as to her flock being afflicted with tuberculosis.

There is a single cause—the bacillus tuberculosis, and it operates through contagion only. Fowls that are closely confined with lack of fresh air and sunshine are more susceptible to this tuberculosis.

There is no cure. Separate the bright, healthy appearing individuals from the flock and if possible move them to fresh quarters. It is absolutely necessary to kill and burn all fowls that show any symptoms of the disease. The outward symptoms are infected joints which cause lameness and is often confused with rheumatism, and a listless anemic appearance. The post-mortem which showed the tubercles is the conclusive point.

Rake and burn all litter and spray every available inch of buildings and yards with any good disinfectant. Directions are to be found on the can. There are many different labels, but the contents are practically the same. Follow up with air slaked lime. Dust liberally into every nook and crevice as well as over the floors and yards. Add enough permanganate of potash to the drinking water of the flock to color a rich wine color. It is a good germicide and will keep the contagion from being transmitted through a common drinking vessel. Watch the flock carefully and promptly dispatch any fowl that shows the first signs of weakness.

With the coming of warm weather the trouble will be easier to combat. Few germs there are that can withstand the bright rays of a summer sun.



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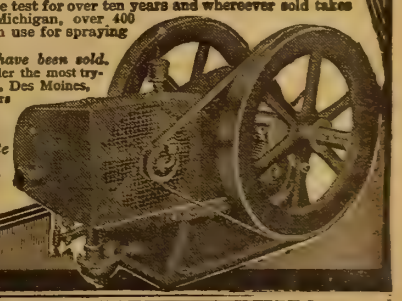

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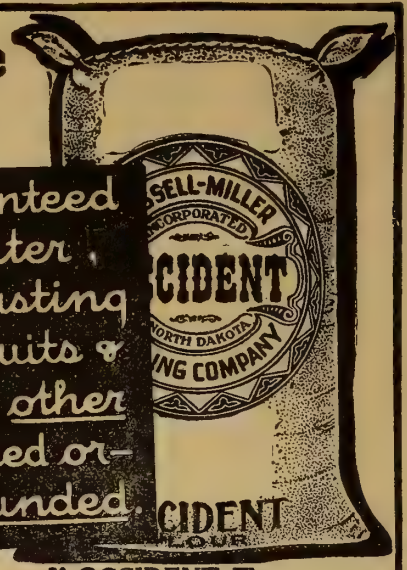

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

(Continued from last issue.)

While the children slept peacefully on their beds of hay in Mrs. Elder's big barn, their mothers sat in the front yard and, waiting, watched night blot out the day. At last a sound drifted in from the road and Lyddy Holbrooke gasped that it was "Tom's grays."

Mrs. Hope laid a firm hand on the younger woman's shoulder. "I reckon it might be Tom. And behind him and bound to beat him, is Jim Hope's new car. Listen! I face my man first, and I ain't scared of Jim and all the other fifteen just as long as we stand together: I believe in my soul, friends, that all any of 'em has needed for years is nothin' but to get shown."

A few moments later six men clambered out of Hope's new car. He alighted first and asking what all the fuss was about said his folks would start back in five minutes, the others could "gab all night" if they wanted to. Mrs. Hope stepped out from the group of women on the porch and moved down until she stood on a level with her husband's eyes:

"Jim," she began clearly, "you men folks didn't stop to read right those notes all of us left you. This is a strike of the Morgan county women against our working conditions, with me and Lyddy Holbrooke and Dixie Elder for strike committee, and all the rest of the women here to back us up. We're here, with all the children asleep in the Elder barn, on the only woman-run farm in Morgan county, to stay until the strike is won. If you men want to get a notion, by sight of eye, of why we've struck and what we want before we go back to work, you go through this house, that kitchen, the outbuildings and compare 'em with what us women on your man-run farms put up with. We've struck, Jim. We're through working with what you've give us to work with. Not till all of you—all of you—," she emphasized it slowly, "see your way to fixin' us up right do we go back to work."

Tom Holbrooke roared that it was "infernal nonsense," that the women couldn't strike, that "tomorrow's hayin' week."

"That," said Mrs. Hope, "is just why we struck today. We told you in our notes that you mean could try runnin' yourselves and the farm this week. We want you to work awhile with what we work with an' see how you like it. We want Tom Holbrooke to find out for himself, while he's tryin' to make coffee tomorrow on Lyddy's stove, why she's kep' askin' him for a new one, and why she says here tonight she'll never cook another meal on it. We want Dick Dorr to come in from the hot fields tomorrow at noon and start to cook over Bertha's stove in Bertha's kitchen and find out why she wants that window cut through for a breath of air where she's asked for five years to have it cut. We want Timothy Haskins and you, Jim, and Al Smith and most of you men, to find out, from carryin' in all the house water, why we've asked to have it piped in. We've each left you a list of things we want done to our houses, that the committee went over and decided was just, each man weighed accordin' to his means. Mrs. Elder's the only one here that ain't responsible to a man, and she's made us welcome here till the strike's ended. And, men folks, I want to tell you this: some of us is scared a little, and all of us wish we didn't have to do it, but it's come to a question of provin' that we're in dead earnest, and' not a woman goes back till all of us gets justice. Blame the man that holds out the longest, an' not his wife, if this don't get settled quick."

"Sadie," Hope drew his wife aside and began to talk. She shook off his arm gently, but with immense decision and answered him in open council.

"Not another promise goes, Jim. You promised last year as solemn as a man could promise that I'd get relieved from that awful outside pump this year. Not if you promised all night would I go back. The work's got to be started. And, men, in your talkin' over this thing, there's one thing that's comin' harder on most of you than carpenter work and new stoves and bread mixers and screens and piping, and that's money of our own. We're goin' to let you find out this week how much a woman is worth on a farm. Work it out; figure how big a hole we make in a farm's runnin' when we step out. And if you find any real stubborn brother among you, deal with him yourselves, an' don't put his case back on his woman; for we women are standing back to back: it's all of us, or none of us. Remember that."

A hush followed; husbands and wives looked into each other's eyes; no one spoke, and in silence the men went away. Hope, who was first to go, came back next evening before sunset to say he'd gotten his lesson; that work had been begun on the pipes; for her and the children to get ready to return home with him.

"I never said you was a bad man, Jim," his wife told him after a pause. "You've never stopped to realize; that's all. I never thought it would be hard work with you, after you saw I meant it—not that we couldn't live happy after it. Some of these women ain't sure of that, like I am. It took more courage for some of them than for me; you know that. What about Tom Holbrooke and Lyddy, Jim? And Dick Dorr and Bertha?"

Neither Holbrooke nor Dorr would listen to a thing, Hope admitted. Mrs. Hope laid a nervous hand upon her husband's arm and reminded him that the women had agreed to stand together; that he knew strike rules; that she could not go, and for him not to come again in this way, as it made it too hard.

"It's all up to you men; an' if all of you are decent but Tom an' Dick, it's up to you men still. Blame them an' not us, for as long as the sixteenth man holds out on you, all sixteen of us has got to hold out. You'd never stop sneerin' at me inside if I deserted now. Don't ask me again, Jim. It's up to you men."

"How long does Dixie Elder calculate to keep you?" Hope asked coolly. His wife laughed.

"You tell this to Tom and Dick—tell it to all of them. Have you ever heard of Mrs. Elder's jams and jellies that she sells, home-put-up, in New York, and never enough? It's a grand fruit year, and she got busy last week and's got orders enough for every bit she can put up with our help, and she has it figured out so we get paid for our time and have a little left over from our board. You tell Tom Holbrooke an' Dick Dorr that Lyddy and Bertha can hire out to Dixie Elder for the rest of the summer puttin' up fruit, an' will as long as they stay here, with more pocket money at the end of the season than ever they had at home."

Other men besides Jim Hope tried to coax their wives home, but "there were two words these farmers' wives knew, 'solidarity' and 'scab,' and their reverence for the one and their scorn for the other were so great as to preclude extended argument." At last all the men but Tom Holbrooke came to their senses. The evening Hope and Haskins came over to know where Bertha Dorr wanted the window cut, Lyddy Holbrooke asked Jim Hope to drive her over to the farm. Hope hesitated and tried to dissuade her. "If you'll drive me over," she repeated, "the time's come for Tom's and my talk—it's nothin' but Tom and me now; and if you want to get word to your men tonight—why, the strike's ended." Hope told her he would drive her over—to himself he added that he would not drive back until he knew that Tom Holbrooke was not doing murder.

When Hope returned to the Elder farm, all the women and children but his own, who were waiting for him, were gone. In answer to the unspoken question of his wife and Mrs. Elder he said that though he had sat waiting for three hours all he knew was not much.

"I don't know what happened inside," said Hope. "All I know is what she said as she got out and walked up to Holbrooke where he was standin' smokin' in the yard. 'Tom,' she said, 'I've come back tonight to tell you in words you'll never forget as long as you live why Ellen killed herself and the three children she bore you. I found a poor little book she used to write in towards the last. 'Come in; you've got to listen to it tonight.' I sat by, then, for three hours, till she came out again," added Hope. "I've never seen a woman whiter faced. 'I'll stay here tonight,' she told me, 'an' tomorrow I'll send for the children. Tell Sadie I've won, but I've shamed a man.'"

"The shame of Tom Holbrooke," said Mrs. Hope dryly, "is liable to make for the pride of the rest of the Morgan county men. By the time Dick Dorr got through talking to us about Tom, he'd managed to sound like a good, generous man, an' maybe it'll work out that way with him an' Bertha. But Tom and Lyddy—"

"If ever," Hope interrupted, "I looked on the head of a family, I saw it in Lyddy Holbrooke tonight. I bet Tom ain't got a leg to stand on ever again. Not but what he had it all comin' to him. Well, pardner, let's get the kids and start."

Mrs. Hope looked up quickly; her lips parted and she shut them firmly. He had said it unconsciously, his old, long-disused honeymoon name for her. She believed he meant it; that was the keynote of the new life. They must stand together to right the wrong that

custom and carelessness had wrought upon their home. Suddenly Mrs. Hope's worn face flickered into a smile. This too was solidarity.

HOME AND HOMEMAKING.

THE COUNTRY BOY'S CREED.

I believe that the country which God made is more beautiful than the city which man made; that life out of doors and in touch with the earth is the natural life of man. I believe that work is work wherever we find it, but that work with nature is more inspiring than work with the most intricate machinery. I believe that the dignity of labor depends not on what you do, but on how you do it; that opportunity comes to a boy on the farm as often as to a boy in the city; that life is larger and freer and happier on the farm than in the town; that my success depends not upon my location, but upon myself—not upon my dreams, but upon what I actually do, not upon luck, but upon pluck. I believe in working when I work and in playing when I play and in giving and demanding a square deal in every act of life.—Edwin O. Grover.

A policy of prevention of fly birth is better than a constant fight with and against the myriads of flies sure to be present later in the season. The hordes of flies of midsummer are not only annoying, but are almost the best known medium for spreading disease. Prevent the midsummer millions by destroying the early few.

Flies delight to find piles of rubbish, refuse and manure, for these are the places and this is the sort of material

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in which they lay their eggs. All material of this sort should be cleaned up before the first flies arrive and should be kept clear all summer. If any refuse, garbage or manure accumulates about the house, outbuildings or barns it is in this way the eggs are laid and the maggots hatch, and on this they feed. The accumulation of a few days, helps to breed flies and if it is not cleaned up for three weeks a whole brood will have time to hatch, pupate, and develop into adult flies. Prevent the formation of the usual breeding places and much more will be accomplished than by a campaign of "swatting" later.

To completely eradicate the fly pest a concerted campaign against this filthy insect must be begun at once. Four simple rules will help in this work:

First, remove, destroy, clean and disinfect all garbage, manure heaps, outhouses, etc. Remember it is in such places as these that the fly is hatched; this is where he feeds on animal and human feces and where he comes from when he goes into our houses, scattering filth and germs of typhoid or other diseases on our food or whatever he lights upon or walks across.

Second, use covered galvanized iron garbage cans and keep them closed as well as disinfected with crude carbolic acid or chloride of lime.

Third, screen the house, both doors and windows. Keep the flies from gaining an entrance.

Fourth, catch any stragglers that may accidentally get into the house by the use of traps or sticky flypaper.

Such a united campaign, rigidly carried out, would do much toward eradicating the fly and with the fly some of our worst diseases.

A SMILE.

Bobby had just fallen from a chair and was crying at the top of his lungs. "Why, Bobby," said his mother, "I'd be ashamed to cry so if I were you; baby brother never cries when he falls down." "Well—boo-hoo!—I ain't a-crying 'cause I fell down; I'm crying 'cause it hurt."

HEALTH AND BEAUTY.

For the little hacking cough that keeps the household awake at night bind a cloth wrung out of quite cold water around the throat and over this pin a dry cloth. One application is usually enough, but if not, more than twice wetting the cloth will not be required.

To keep the finger nails clean when polishing the stove put lard underneath the edge and around the nails, and the blacking will not disfigure them.

A good camphorated tooth powder is made from precipitated chalk, six drams; orris root, two drams; powdered camphor, one-third dram.

Relief may often be obtained when suffering with sick headache by holding the head over a basin and pouring a stream of very cold water on the back of the neck.

A little lemon juice upon retiring at night, a good facial bath in buttermilk allowed to remain on the skin for at least ten minutes, the inner rind of a cucumber rubbed over the entire face at least once a day—these are the weapons with which the girl who freckles or tans is fighting off her enemies.

When the hair begins falling out by reason of dandruff try shampooing without soap, says a writer. Beat two egg yolks in lime water, massage well into scalp, wash out with warm water and finish with a rinse of cold water to avoid taking cold.

THE DANDELION.

You may look in forty cook books in succession and not find the mention of dandelions, or at the most but some brief half or quarter of a sentence devoted to these superlatively fine greens. Even to Miss Parloa, who, according to all the traditions of the section of the world she inhabits, should have been brought up on a daily ration of these for a brief period of the spring makes no mention of them in her book on the preparation of vegetables.

For tonic properties and as a purifier of the system the dandelion is unequaled. We have a highly reputable doctor's statement that "the dandelion contains potassium salts and iron, which helps to make the blood more alkaline in action, and thus to eliminate poisons from the system. It is particularly valuable in the spring of the year—the only time when it is tender enough to use, in fact, because of this quality as a cleanser. It may be cooked by stewing with pork and season, draining, chopping together till fine, and serving with vinegar.—Jane Eddington.

LITTLE HELPS BY THE WAY.

It's faith in our own selves that makes
Our faith in others strong;
He's not a full and rounded man
Who thinks the world all wrong.

Don't look for flaws as you go through life,
And even when you find them,
'Tis wise and kind to be somewhat blind, and
Look for the virtues behind them.

Come up, April, through the valley,
In your robes of beauty drest,
Come, and wake your flow'ry children
From the wintry beds of rest.
—Phoebe Cary.

Ask your neighbor to subscribe for The Homestead.

THE YOUNG FOLKS

SPECIAL NOTICE.

For the summer months we are going to use a new plan, instead of publishing the Roll of Honor, as our department will not be large enough to print such big lists of names.

So for a few months we will award three prizes a week. First prize, twenty-five cents; second prize, silver badge; third prize, pansy badge—for the three best literary efforts received that week.

Be sure to sign full address and age, and to write on one side of the paper only; and do not copy anyone's verses or stories, but make yours up yourself. Age limit, 21 years; all under that age are welcome.

HOW I GOT OUT OF THE SHAFT.

On my seventh birthday my aunt gave me a little writing book which had a place for a pencil. I always thought a great deal of the book.

One day my mother was very busy, so she told me to go and play. I called my dog, Ring, to come with me. We went into the pasture to play.

We stayed so late that my mother began to miss me. She called and called, but I did not answer. She waited an hour, but still I didn't come. She waited for a while to think.

She then went down to the gate, and there she met Mr. Harms. She told him about my long absence, but he only thought I was asleep. But I never returned, and so soon the whole neighborhood came out to hunt for me.

At last Ring bounded into the room with a piece of paper tied around his neck. Mr. Harms took it off Ring's neck, and read the following: "O, mother! come to me. I am in a big hole in the pasture."

Now the people went to the pasture, up to the hole, and lifted me out.

Now I will tell how I came to be in the shaft. In the pasture I saw a large hole, and I sat down beside it to see how deep it was. I lost my balance and fell in. I tried hard to get out, but I could not.

Ring saw me fall in and he pulled on my dress sleeve trying to help me, but the sod gave way, and he, too, fell in. I called as loud as I could for help, but there was no answer.

I cried myself to sleep, and when I awoke, I tried to think of some plan to get out. I happened to think of my writing book. I took my book out, and wrote a note on it. I then tied it around Ring's neck and helped him out. I told him to go home. He reached there, and you know the rest.—Edna Gingery, Neb., age 10.

My Bantams.
(Second Prize)

I have a little bantam hen and rooster. One day last summer I gave my little hen six eggs, and what do you think she did with them? She began to sit on them.

One day I went to feed her; I heard something say "peep! peep!" I looked under her, and there were six of the prettiest little chickens I ever saw. She was proud of her family.

My papa made them a nice little home to keep out the rain. I thought it would keep out the rats, too. But in this I was mistaken.

One night I heard a noise by the little henhouse, and we went to see what was the matter. When I looked in her little house, there were only five little chicks left. These grew up and were great pets.—Brown-eyed Rose, Ia., age 7.

A Picnic Day.
(Third Prize)

I will tell you about our trip to the woods. We went the fourth of May, last year. It was about twelve miles to the Des Moines River. We started early in the morning, and took dinner with us.

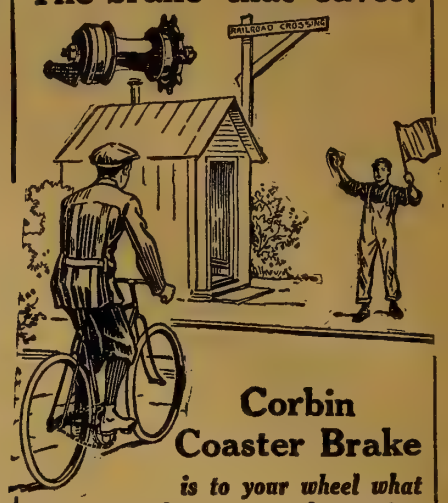
We dug up some pretty trees to plant around the house. After we had our dinner, we drove over the big bridge and went away down to the sand and picked up some shells.

We found some violets that we dug up and brought home and planted. There was only a little water in the river.

Maybe we will go again this year.—Bernadatte, Ia,, age 8.

Never start to lead the horse from his stall till you hold or fasten back the door. Doors have been known to swing to where they were not fastened open catching the horse's head, the animal pulling back and breaking his neck.

The brake that saves!



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That your cattle do not pay.
Sell them off and buy some Holsteins
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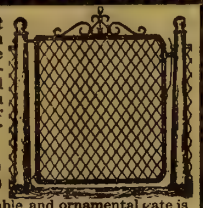

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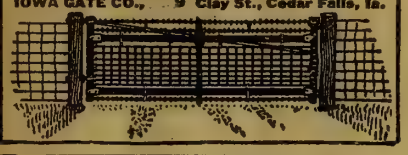

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You save middleman's profit. That's why they cost less than others; that's why more Trojan gates are sold than all others. Investigate.

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PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

3d Quar. Lesson III, Gen. 33: 1-15. April 20, 1913.

JACOB'S MEETING WITH ESAU—THE STORY.

There was a clash of feeling in the heart of Jacob as he approached Canaan after his exile in Padan-aram. There was joy! Before him lay the land "promised" to him—a land flowing with milk and honey. And he was making his entrance in good form. He returned not as he went out, with merely a staff in his hand. He came as a mighty sheik, with vast flocks and herds, and caravan of his followers. Nor were his thoughts wholly upon temporalities. He had learned many religious lessons in his banishment. He came with the intention of discharging well the priestly function inhering in his headship of the nation. He had some conception, however incomplete, of One who was to be born of his line. He had the Messianic hope. But all the brightness of Jacob's joy was darkened by one cloud of angry portent. He must needs meet the consequences of the sins of forty years ago—his unbrotherly action; his ambition, greed, and fraud—all these assumed a spectral form to haunt him. His wronged brother was approaching in hostile mien and force. To Jacob it seemed as if all was lost. What did it amount to—the sight of the promised land—if he must needs stain its border with his life's blood? And all the Messianic hopes and promises would perish in him. There is a touch of the domestic and affectionate spirit of the patriarch in his prayer. He fairly screens his eyes from sight of the impending slaughter of the innocents. In the extremity of his peril the strategic spirit of Jacob asserted itself. But the advance in character is manifest in that it took no ignoble form. There was nothing unworthy in the division of his caravan into two bands. And the presents sent in a series would be cumulative in their effect to soften the anger of his injured brother. Having done all that human tact could suggest, Jacob had recourse to prayer. Someone once asked a minister whether he believed in healing by faith or medicine. His very apt reply was: "I believe in healing by faith and medicine." Jacob used all the expedients he could think of to placate his brother, just as if everything depended upon himself. Then he went to prayer, just as if everything depended upon God.

HANDLING EARLY CHICKS.

To the Editor of The Homestead:

That the best money to be made in marketing poultry can be made by getting the early chicks on the first market, none who have tried it will hold the slightest doubt, but it requires different management from that of any other season.

In the first place, the condition of the weather is so vastly different from that of any other season, even than that a few weeks later, that special attention must be given the chicks, to prevent sudden changes from demoralizing your prospects, as their tender constitutions will not admit of sudden exposure.

Another item to be taken into consideration is that the eggs which produced the chicks at this season were so high priced, and a loss of the chicks after hatching not only means your labor thrown away, with that of the hen, or an incubator and the oil, but the value of eggs thus wasted adds considerable to the cost of production.

Again, early chicks are hatched almost exclusively by incubator, and the little fellows never are quite as strong and vigorous as those hatched by hen. This should behoove the poultry man who is expecting to market his early, high-priced chicks, to make thorough preparation for starting them right, the first provision being that of ample protection from the cold, damp weather.

During sudden changes in the temperature, the chicks must be handled accordingly. If they become chilled or damp, the influence seems to settle in the bowels, causing various disorders which, unless promptly checked, will result fatally in a very short time. The sure sign that something must be done for them, is a clogging of the excretion in and around the vent. When this occurs it is a certain indication that the little fellows have been neglected, either as to care or feed, sometimes both.

While it is a pretty delicate proposition to doctor small chicks, in a case like the above mentioned give from three to five drops of castor oil to each afflicted chick, to start the bowels freely and clean out the digestive system in general. At the same time, look carefully around and see if the little fellows haven't been eating foul feed of some kind, too much corn, or drinking filthy water, either of which would cause the trouble. Any of these, in connection with lice and mites on the chicks, soon will clean up a big flock of them.

Keep the chick coops or brooders clean and dry, and on warm, bright days turn the chicks where they can enjoy the sunlight and open air exercise. Avoid washy or sloppy feeds, as they are great bowel disturbers. Give a variety of small grain rations, such as millet, wheat, kaffir corn, etc., carefully guarding against any great amount of corn till the chicks are larger and more vigorous, when their digestion will be stronger and more able to convert it into available nutrition for the tissues of the body. A generous pinch of cayenne pepper in a mash of one part corn chop, one part cracked wheat and two parts bran, will prove highly beneficial, given twice a week. Where the chicks are confined, 10 per cent beef scraps and the same amount of cut clover or alfalfa meal should be added, while charcoal and grit should be kept where they can be reached by chicks at all times.

Subscriber.

W. C. Pace brought a dwarfed ear of corn into the Tribune office this morning that was raised last year on his small farm just north of Glenwood. It is indeed a freak and oddity in the way of an ear of corn. There is the main ear, which is perhaps four inches long and almost the same size in circumference as an ordinary ear of corn, and eight small ears growing out from the end and projecting downward. We will admit that it is something new to us in the way of a freak ear of corn. —Glenwood, (Iowa) Tribune.

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I'll save you big money on your farm gates. My new catalog quotes such astonishingly low prices on CAN'T-SAG GATES AND GATE STEELS that *you simply can't afford to build another clumsy, all wood gate.* My FREIGHT PAID PRICES are half what others charge for short-lived steel, wire and gas pipe gates.

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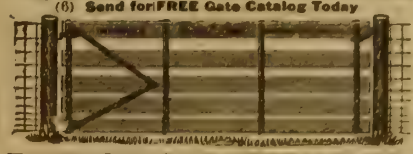

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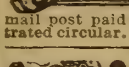

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Make us prove what we say.

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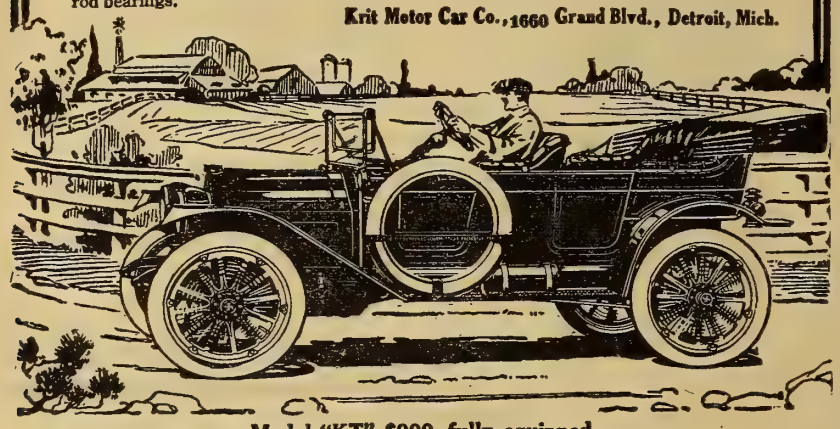

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You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

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ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5976 Boy's Blouse Suit.—This little suit has a sailor blouse with the regulation collar and shield, the latter being removable. The sleeves are nicely plaited at the wrist and the trousers are the usual bloomers finished at the knee with either legbands or elastics. Serge, cashmere or linen can be used to make this suit.

The pattern, No. 5976, is cut in sizes 6 to 12 years. Medium size requires 2⅝ yards of 44-inch material. Price of pattern, ten cents.

4715 Lady's Kimono.—This kimono can be made with either the bishop or flowing sleeves. It also can be made with either the square or round neck. Any of the pretty crepe materials may be used to make this kimono, with the trimming of contrasting material.

The pattern, No. 4715, is cut in sizes 32 to 44 inches bust measure. Medium size requires 7⅜ yards of 36-inch material, with 1 yard of 36-inch contrasting material. Price of pattern, ten cents.

6030 Lady's Petticoat.—This petticoat is cut in one piece and is especially desirable for embroidery. It is made with a straight lower edge.

The pattern, No. 6030, is cut in sizes 22 to 36 inches waist measure. Medium size requires 2¼ yards of 45-inch flouncing. Price of pattern, ten cents.

3696 Lady's Combination.—This combination consists of corset cover, drawers and petticoat. The petticoat can be finished with a ruffle of embroidery or of self materials as preferred. Longcloth or nainsook can be used to make this combination.

The pattern, No. 3696, is cut in sizes 32 to 46 inches bust measure. Medium size requires 2½ yards of 36-inch material, 5 yards of edging 6½ inches wide for the ruffle, 3¾ yards of narrow edging, 6½ yards of insertion, 3½ yards of beading and 4 yards of ribbon. Price of pattern, ten cents.

5643 Lady's Dress.—This dress closes at the front and is made with a six-gored skirt. A tuck at each shoulder in the front of the waist gives the necessary fulness. Linen or serge can be used to make this dress.

The pattern, No. 5643, is cut in sizes 32 to 42 inches bust measure. Medium size requires 6⅜ yards of 36-inch material. Price of pattern, ten cents.

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

THOROUGHLY good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case.

SYMPTOMS AND TREATMENT.

TUMOR.

About a year ago my four-year-old horse got a bruise on one shoulder. This swelled quite badly and was soft to the touch. It was lanced by a veterinarian, but was sore and discharged pus for three weeks, after, but finally got well. Three weeks ago his shoulder got sore again in the same place. This time the enlargement is quite hard and sore.

A tumor has formed and should be cut out; then treat as a common wound until healed. If you do not care to have this done open into the center of the mass, evacuate the pus and then once daily pack the cavity full of oakum saturated in a mixture of equal parts of turpentine and raw linseed oil.

GARGET.

Have a five-year-old Jersey cow that will be fresh about July. She gives a little milk, but it is strong and we cannot churn butter from her cream; it simply comes to a thick foam. Her milk is stringy when first beginning to milk her. She looks well and eats well. She is fed corn fodder three times a day with red clover once a day. About four times a week she receives cow beets and twice a week a little bran and corn.

The cow's udder appears to be ruined and she should be kept away from other cows, as such diseases are apt to prove contagious. Rub the udder twice daily with camphorated oil and strip away all fluid. She will give more trouble when she calves, so it is best to sell such cows to the butcher or dealer in canner cows. It never pays to retain them for dairying.

LAMENESS.

Have a filly coming two years old in June that was cut in the wire last November, the wound being in her breast at the upper joint of the right leg. It healed up except for a small bunch. However, she can't use the leg at all and when she walks will go on three legs. She is in good condition.

This is a serious case and one that should be attended to by the local graduate veterinarian. He may find the cause of the acute lameness, which suggests a broken bone, or diseased bone. If you can not employ expert help clip the hair from the entire affected part and blister several times with cerate of cantharides, at intervals of three or four weeks.

LUMP JAW.

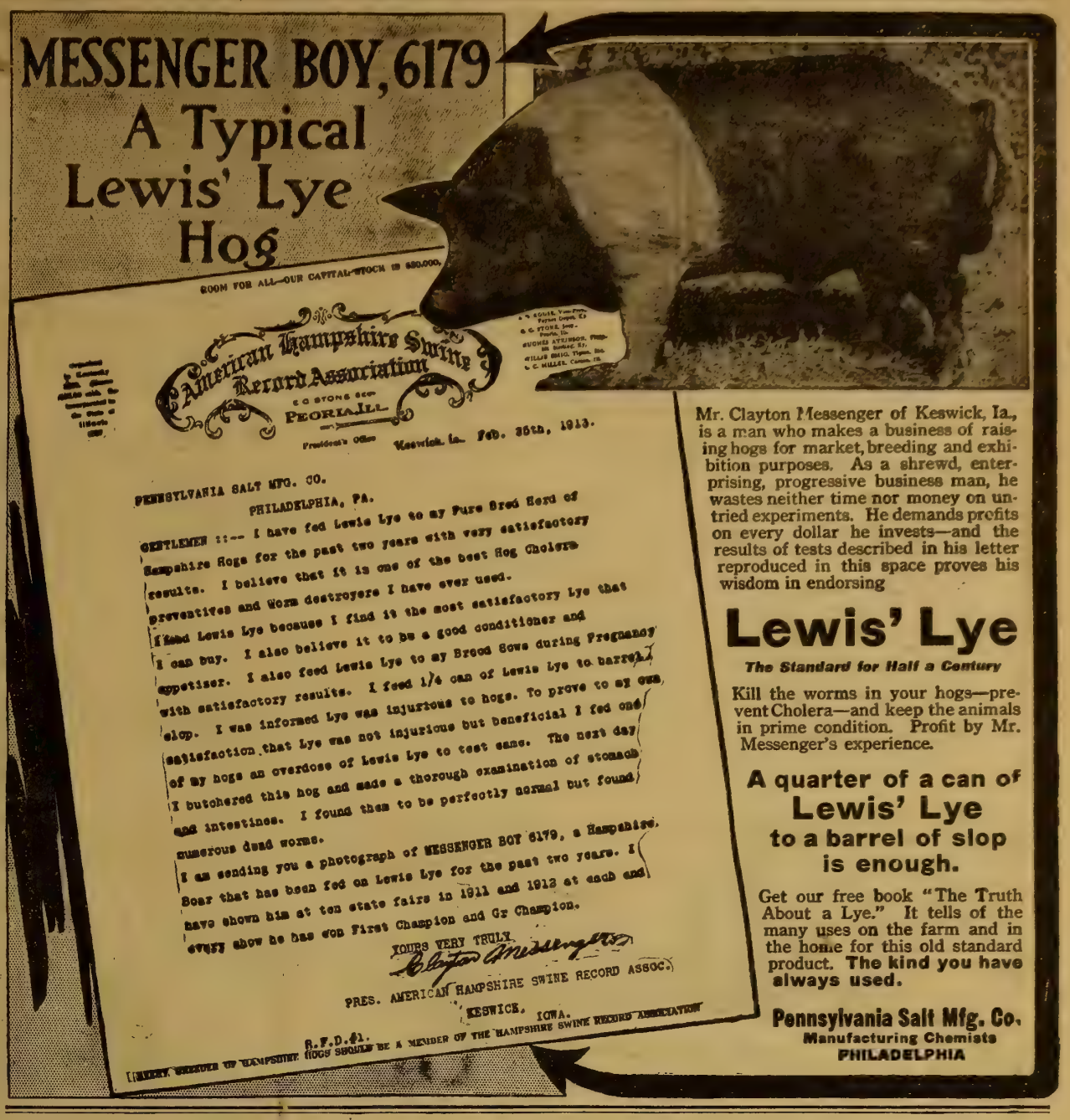
A red yearling bull calf has a lump on his left jaw, but we are unable to say how long it has been there, as we bought him at a sale five weeks ago. This lump is as big as a boy's fist. A week ago we cut it open with a knife and found it contained bloody matter. It healed up, but is just like it was before.

The lump no doubt constitutes lump jaw, being due to the ray fungus (actinomyces). It would be best to have the entire mass cut out by a veterinarian who will cauterize the wound. If the bones are not badly involved, healing may then take place. If you cannot employ a veterinarian cut into the center of the mass and insert a half dram of powdered corrosive sublimate wrapped up in wet cotton batting to make a small ball. Keep this in place by packing with oakum or cotton. It will cause sloughing of the parts, after a time, and healing may then take place.

RETAINED AFTERBIRTH.

Two of my cows did not clean after calving and I had it done, but would like to know what to use as a wash, as there is quite a little fever and some odor. What is the cause of this trouble and can it be prevented? These cows have had cob meal, two parts; bran, one part, and what corn fodder they would eat, and were in good flesh at calving time.

Use a gallon or two of lukewarm 1-5,000 solution of permanganate of potash to syringe out the vagina once daily until abnormal discharge subsides. The trouble indicates lack of thrift and health in the cows. Sometimes this is due to lack of exercise and inadequate feeding, or lack



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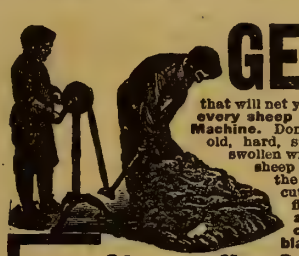

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Insist on having the "Stewart." It's the easiest to turn, does the fastest work, stays sharp longer and is more durable than any other clipping machine made. Get one from your dealer, price only..... $7.50 or send us $2.00 and we will ship C. O. D. for the balance. Satisfaction guaranteed.

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FREIGHT PAID to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S.D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla. on orders of three rolls or more. Special prices to these States on request.
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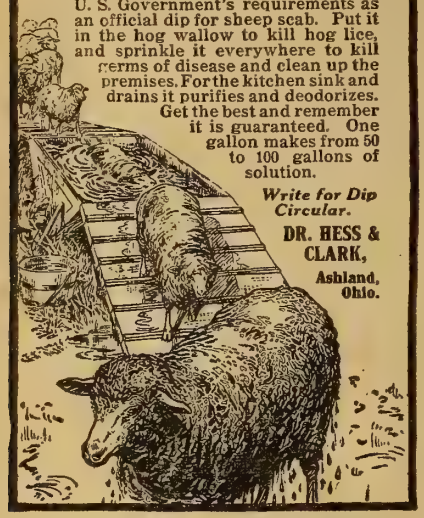
It's not an easy task to dip sheep, and when it is done you want the satisfaction of knowing that the labor wasn't all wasted. You can have this satisfaction only by getting the best.

DR. HESS DIP
And Disinfectant

cannot be improved. It has the Dr. Hess & Clark quality. Every ingredient is analyzed or standardized to absolutely guarantee uniformity. It is non-poisonous, non-irritating, kills ticks and at the same time heals the skin. It meets the U. S. Government's requirements as an official dip for sheep scab. Put it in the hog wallow to kill hog lice, and sprinkle it everywhere to kill germs of disease and clean up the premises. For the kitchen sink and drains it purifies and deodorizes. Get the best and remember it is guaranteed. One gallon makes from 50 to 100 gallons of solution.



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appeals strongly to all *horse owners* who take pains to look into the shoeing problem.

"Capewell" nails hold the best. No breaking at head or clinch.

They are safe too. Do not split or clinch when shoers drive them, with a chance of crippling the horse.

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Take some money to Russell's Sale,
Buy some Holsteins without fail
The kind that fill an eight-gallon pail,
Now don't think this a fairy tale.

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of succulent and laxative feed. Make the cows take plenty of exercise during pregnancy and feed silage, bran and oilmeal, or roots and there should be no trouble. It is taken for granted that the cattle have been tested and found free from tuberculosis. That disease often causes retention.

SOUNDNESS.

Please tell me how to determine if a mare is sound and also how to tell her age and whether her eye sight is good or not.

We cannot answer such a wide question here. It would take columns of space to discuss such a question. The information may be learned from a book on veterinary medicine; but the best way to decide a matter of soundness is to have an expert examination made by a graduate veterinarian.

FEEDING A JACK.

I have a jack and am a little puzzled to know whether I feed him too heavy or not. I give him one and one-half gallons of oats, one-half gallon of bran, four eggs and wild hay each day. He has a yard for exercise. This jack is four years old. Some days he acts all right and is quick in his service and other days he has no motion.

Substitute mixed clover and timothy hay for the wild hay; reduce the amount of bran fed and add a few ears of corn at noon. Make the jack take plenty of exercise every day, but do not let him become wet. Do the teasing with a horse.

STIFFNESS.

Have a twenty-year-old mare that seems stiff when she gets up after lying down. She lies down every day, sometimes for half a day at a time and acts like her back hurt her when she tries to get up. She has been fed corn, oats and hay; also a teaspoonful of pulverized rosin for two or three weeks, but it does not seem to do her any good.

Stop giving the rosin; it will do no good and possibly may cause harm. Give the old mare a box stall in stable and try putting slings under her to prevent her from lying down and to give her support. At her age there is little likelihood that she will permanently recover.

WORMS.

What causes colts or horses to chew at boards and planks with which they come in contact, and what is the remedy for this? They have been fed salt, oats, corn and hay.

Indigestion and depraved appetite are present and worms are the common cause. Treat for same by giving half to two ounces of turpentine in four to sixteen ounces of raw linseed oil, at one dose, according to size and age of animal. Follow with the worm powders so often prescribed here.

HAIRLESS PIGS.

Can you tell me what causes healthy sows to have pigs without a particle of hair on them? They go their full time and from two to eight days over.

In such instances it has been found that lack of lime in the feed and water has caused the hairless condition of the pigs. They lack perfect development. The ration should be balanced and complete, a mixture and variety of feeds being allowed and the sow permitted free access to slaked lime, wood ashes and charcoal. It is well to include in the feed digester tankage, say at rate of 10 per cent of the other feeds offered, and also to add precipitated phosphate of lime or ground bone. In the Canadian northwest lime added to the drinking water ended the trouble.

FARCY.

Will you please give recipe or treatment for button farcy in horses?

The disease is the skin form of glanders and there is a state law against hiding its presence or treating the disease. If you know of a case it is your duty to immediately notify the local health officer and he the state veterinarian who will see to the destruction of the animal, quarantine and disinfection of the stable. As glanders-farcy is not only incurable and fatal to horses, but communicable and fatal to man, the danger of treating or harboring the disease can be understood.

DEAFNESS.

(1) This spring I was hauling cane with a five-year-old team and shot over their heads with a shotgun. They have been totally deaf ever since. Is there any cure? (2) Also have a cow three years old that is weak in the knees and has been in that condition since the first of November. She has been running in the wheat pasture. She breathes hard. What is her trouble?

(1) We know of no cure. Possibly hearing may return in time. (2) Have her tested with tuberculin as tuberculosis is the most likely cause of condition described. Meanwhile keep her up and feed generously.

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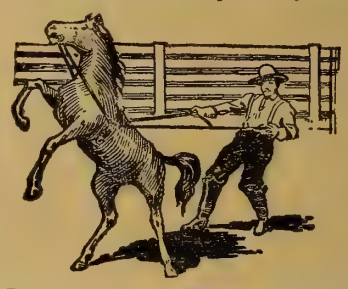

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(Continued from page 3.)

WHAT ONE ACRE WILL DO.

more in cash than did your twenty acres," said I, "and best of all, the land is in better condition than it was when I started in last spring, a thing that you can't say about your cotton land."

My neighbor will join me next year and that branch bottom land of his will go into some early maturing vegetable crop that will be out of the way in time to plant corn and some soil-building legume, such as peanuts or cowpeas. The idea of crop diversification is gaining ground. You can tell a diversified farm as far as you can see it. Prosperity is shown in the fences, in the farm stock, in the dwelling and in the faces of the people.

Because of his success with the one-acre experiment and of the specific manner in which his entire place is cultivated, Mr. Cash's property is called by his Arkansas neighbors the "Model Farm," and is an object of interest to a great many visitors. Having access not only to the local market of Camden, but to the markets at Texarkana, Shreveport, Pine Bluff, Little Rock, and Memphis, Mr Cash is able to dispose of his produce promptly and at good prices. His earliest garden stuff begins to come on in April, while new potatoes in April and strawberries in May add to the early receipts of his farm. Canteloupe, watermelons, sweet potatoes, sugar cane, turnips and fall feeds and grains combine to make him an advocate of diversified farming rather than of cotton growing, to which the great majority of his neighbors have all too long confined their attention almost exclusively. Mr. Cash believes that the day is coming, and is not far distant, when not only in the South, but throughout the entire country, men will abandon one-crop farming and pay more attention to diversified farming, with better and surer financial results.

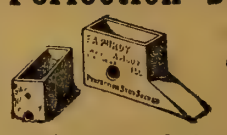
Don't Have a Blind One
"VISIO"

An Absolute Cure for Moon Blindness
(Opthalmia), Cataract and Conjunctivitis
Shying horses all suffer from diseased eyes.

"Visio" will convince any horse owner that it will absolutely cure defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our GUARANTEE to refund money if it does not cure.

$2.00 per bottle, postpaid on receipt of price.
VISIO Remedy Ass'n, 2458 Calumet Ave., Chicago, Ill.

Perfection Stud Socket



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also galls. Stuffed with medicated cotton; absorbs impurities of sores. Fit any shape neck. Will not sweeney the horse. If not at your dealer's, write us. Prices $1.25 and up.

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The old reliable remedy for curb, splint, bony growths, ringbone, spavin or other lameness. 35 years of remarkable results. $1 a bottle, 6 for $5. At all drug stores. Ask for Free Book, "Treatise on the Horse."

Dr. B. J. Kendall Co., Enosburg Falls, Vt.

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

HANDLING THE LAMB CROP

To the Editor of The Homestead:

Lambs are the most fragile of all young farm animals. See that they get the attention necessary to give them a good start. Keep a close watch of the smaller and weaker lambs, else the larger and stronger ones will cheat them out of their share of nourishment from the mother. Above all else, don't allow the lambs to get chilled by rain or sleet. The little fellows rarely ever survive one thorough chilling at this tender age.

Remember, any disorder of the ewes will be partly transmitted to their lambs through the nourishment they take from the mothers. Let the rations of the suckling ewes, both grain and roughage, be clean, wholesome and nourishing. Getting the lambs properly started to sucking often is a serious problem, and much depends on this part of the handling of the lamb crop. Where a ewe refuses to own her lamb, she should be held till the little fellow secures a taste of the milk, which will make him more ambitious, and is apt to reconcile the ewe to its nursing.

Where there still seems to be a likelihood of the ewe refusing to allow her lamb to suck, one should have a close stall and stanchion in which to confine her, turning the lamb in with her, first seeing that it gets some nourishment. This will prevent the mother from fighting it, and after it has nursed a few times, she probably will own it, and it will be safe to turn it out with her.

Twin or triplet lambs will require the closest attention, even after they both take nourishment from the mother sheep, as one of them is pretty sure to get the most of the milk, cheating the other. As a rule, it is advisable to put one of the twins on a bottle, or with another ewe that has lost her lamb, since one is not only apt to get the greater part of the milk, but the ewe very seldom furnishes sufficient milk to support two lambs properly.

Where a ewe loses her lamb, one can prevent her udder from caking, and at the same time do another profitable turn by taking her dead lamb, removing its skin, slipping it over the body of another lamb, and placing it in the stall with the ewe. The scent of her own lamb's hide will deceive her into allowing the other lamb to nurse. If one can practice this where some ewe has died and left an orphan lamb, or where some ewe has twins or triplets, it will prove an excellent plan. After the ewe has allowed the wrapped lamb to nurse a few times, the skin should be removed, when she generally will own it and permit it to suckle. —M. Coverdell, Cole county, Mo.

LOSSES FROM LIGHTNING.

Although its menacing effects could be easily and cheaply diminished, lightning now destroys more property in this country than do matches, sparks and kerosene together. Of the 229 fires reported by the state fire marshal for the last half of 1912, but three were on buildings which had been rodded. The loss of the three rodded buildings was $4,105, whereas the 226 fires in or on unrodded buildings amounted to $334,088. Upon investigation, it was found that the three fires on rodded buildings could be readily explained because of defective rodding.

The following recommendations for the installation of lightning rods have been given by T. M. Purtell, fire marshal of Wisconsin:

Materials.—Use a copper cable rod or one of galvanized iron or steel. Iron is not as good a conductor as copper, but dissipates the energy of the flash better and is less likely to cause side flashes. Copper cables should weigh three ounces or more per lineal foot. All points should be tipped with non-corroding material.

Location.—Rods should extend from moist earth over the building to moist earth on the other side. Placing rods at diagonally opposite corners is best. On the building rods should be run along the ridge. Avoid placing rods near interior piping.

Points.—All chimneys, cupolas and ventilators should have separate points. Points should not be more than twenty feet apart. A rod should run direct from an outside chimney to the ground.

Metal Work.—Roof, gutters, hay carriers and all other exterior metal work should be connected with the rods or grounded separately.

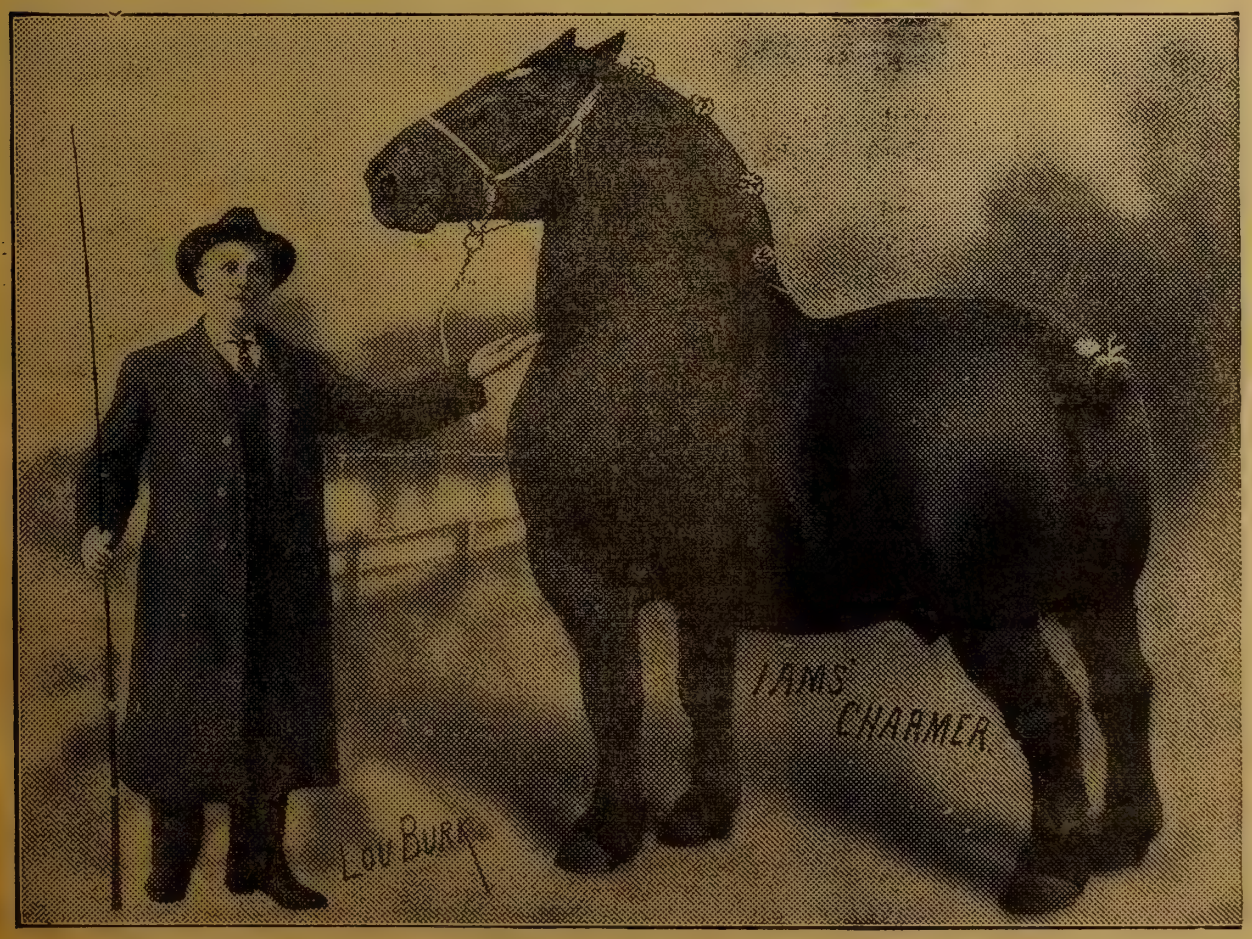
Fastenings.—Rods should be fastened with clips of the same material as the rod, and held at a distance of one inch or more from the roof to prevent leaves from lodging. Never use so-called insulators.

Grounding.—All rods should be grounded to a depth of not less than eight feet; more, if necessary to reach permanent moisture. Lightning seeks underground water beds. You can never overdo the matter of grounding. A copper or steel ground plate is helpful.

Wire Fences.—Grounding wire fences at every sixth post would prevent the heavy loss of live stock.

Makes.—There are about twenty good makes of rods. We cannot and do not recommend any particular make.

Ask your neighbor to subscribe to The Homestead.



Frank Iams, St. Paul, Neb., and one of his imported stallions—the type he is selling at prices which he claims save the buyer from $800 to $1,000 each. Iams calls special attention to the fact that these horses have been inspected by veterinarians of France as well as veterinarians of the United States and his certificates are stamped O. K. by the government.

Have You a Cook Stove and a Watering Trough?

Then You Can Re-temper Acme Shares

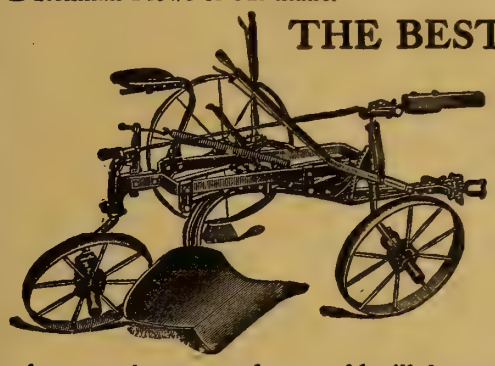
To keep a hard, sharp, keen cutting plow share, you must have one that can be re-tempered after sharpening.

Other plow manufacturers **warn** you **not to re-temper** their shares for fear of breaking them. That means you must plow with **soft, dull** shares after the first re-sharpening.

Anyone Can Re-temper Acme Guaranteed Shares

You can re-temper **Acme Steel Shares** any number of times after re-sharpening, and we guarantee that they will not break either in the process or in the field. Keep them **hard, sharp** and with a "razor edge" their entire life. We take all the risk—you take none—the blacksmith takes none.

Acme Steel Shares are made by our **own** process in our **own** factory. They are used only on **Best Ever** and other Flying Dutchman Plows of our make.



THE BEST EVER PLOW

with **Acme Steel Shares** is the most economical for you to own. It is the strongest plow made—the lightest draft plow. It will turn more acres per day, with less wear and tear on the team than any other plow.

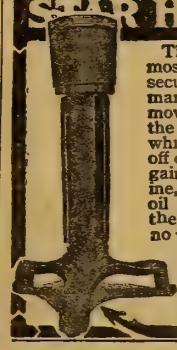
If **Best Ever** plows were equipped with ordinary 3-ply shares, used by other manufacturers—they would still be superior to any other plow on the market—but when you add to their many other advantages that of **Acme Guaranteed Shares,** you will agree with us that the equal of the **Best Ever** has never been produced.

Your Flying Dutchman Implement Dealer sells the BEST EVER. Look him up. Write us for our FREE BOOKLETS. DEPT. NO. 11.

MOLINE PLOW CO., Moline, Illinois

OR NEAREST BRANCH HOUSE

STAR HOG OILER



The "Star" Hog Oiler is the most simply constructed, most securely made machine on the market. It will positively remove lice and mange, keeping the herd in thrifty condition which is a big factor in warding off disease. The hogs rub against the panels of the machine, which permits just enough oil to come in contact with their skin—there's absolutely no waste. Every post is guaranteed and the small cost makes it imperative that you get full facts right now.

HENRY WHITE,
Dept. 50 TRIVOLI, ILL.

Shinn Lightning Rods

Are best by test. Recommended by engineers and experts. Used exclusively by many large property owners. Only rod made and sold under a $75,000 bond.

ASK YOUR DEALER

For Shinn Rods. Don't accept a substitute. Write for catalog and full particulars.

W. C. SHINN, 100 16th St., LINCOLN, NEBRASKA

DATES FOR LIVE STOCK SALES.

Aberdee[illegible]s Cattle.
Apr. 30, Association spring bull sale, Omaha, Neb.
May 2, Association spring bull sale, Chicago, Ill.
May 27, P. J. Donohoe, Holbrook, Iowa.
May 29, Otto V. Battles, Maquoketa, Ia.
June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.
Apr. 29, W. H. Bryson, Lake Fork, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Reese & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.

Hereford Cattle.
Apr. 29, Taylor & Welty, Wanatah, Ind.
May 6, Breeders' sale, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.

Holstein-Friesian Cattle.
May 1-2, T. H. Russell, Geneva, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Guernsey Cattle.
May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Poland China Swine.
Oct. 22, Ed Seckington, North English, Iowa.

FIELD NOTES.

J. G. Westrope, Harlan, Iowa, offers some good young Scotch and Scotch-topped bulls for sale on page 46.

H. A. Myers, Red Oak, Iowa, is offering Scotch Collie puppies for sale. His advertisement appears on page 22 of this issue.

Dewey Ohloff, Postville, Iowa, is offering Fox Terrier puppies for sale cheap in his advertisement appearing on page 22 of this issue.

The illustration in the Burmeister advertisement on page 8 compares the old style cultivator shovels with the improved sort made and offered for sale by Chas. Burmeister, Sutherland, Iowa. Note the claims made for them. For booklet and prices write to the address named above.

The advertisement of the Star hog oiler appears on page 37. This is one of the simplest devices yet perfected for the automatic destruction of lice and mange. It is sold at a low cost and under a liberal guarantee. For prices and other facts address Henry White, Dept. 50, Tribune, Ill.

Standard cream separators are advertised on page 27. A very complete description together with accurate illustrations of these separators may be found in the book entitled "It Skims While You Milk." The book also contains many testimonials from farmers and dairymen who have given it extended trials. This book may be had free of cost by writing to Standard Cream Separator Co., P. O. Box 317, Milwaukee, Wis.

The Keystone potato planter is advertised on page 8. This is a planter which has been in the market for many years and one which has given perfect satisfaction under all conditions. The potato planter is a necessary implement on every farm on which the raising of potatoes takes place. It is a most economical machine and one which saves a great deal of labor at a time when labor is valuable. For catalog and price list address A. J. Platt, Sterling, Ill.

A. Latimer Wilson, Creston, Iowa, reports the sale of his very best imported Percheron three-year-old stallion to Meinecke Bros., Jamaica, Iowa. He writes: 'This horse is one of the best, flashiest going colts that I have sold this year and the community of Jamaica should certainly be congratulated in getting the best horse out of my barns." Mr. Wilson reports that he has plenty of home-bred anl imported horses left for his summer trade and means to keep his stables full all summer.

Percheron stallions sired by imported horses and out of imported mares, all good, young ages, blacks and grays, with the best of individuality and ready for immediate service, being thoroughly conditioned, are for sale by W. J. Butler, Ottawa, Ill., whose advertisement appears elsewhere. These horses will be priced very low, quality considered, as Mr. Butler carries on his business with the minimum of expense and is therefore enabled to make buyers very close figures on his horses. He will treat you right.

R. T. Thornton, manager of the Kansas City sale of Hereford cattle to be held May 6th, writes: "Two more polled bulls have been added to the sale list from the herd of Mr. E. L. Farmer, Eagleville, Mo. Duke is long two years old, sired by Polled Admiral 2d, the great breeding bull owned by J. W. Wyant, Blythedale, Mo. The other bull is a long yearling named Cardinal, sired by Action, he by Admiral 2d, dam Rosebud. Mr. Farmer writes that these are splendid bulls, with good smooth hinds and carry eight polled crosses." Note page 41 for advertisement of the sale.

H. J. Hughes, Irenton, Mo., who owns a small, but select herd of Short-horn cattle recently purchased of C. S. Curtis, Ames, Iowa, a young roan Short-horn bull for a future herd header. He was got by Count Avon, champion of the 1912 International Show, he by Avondale the great son of Whitehall Sultan. The dam of this calf was got by Imp. Red Knight that did such excellent service in the Clarke herd and she traces to Cruickshank's Jessica tribe. Mr. Hughes has secured a calf with excellent lines, good quarters and exceptionally good over crops and loin. Mr. Hughes has not been active in Short-horn circles for some time owing to the press of other business, but has been keeping his herd in good condition and will from now on be able to devote more time to the farm and the herd.

On page 22 of this issue of The Homestead is the advertisement of Mrs. A. N. Bonnett, Birmingham, Iowa, offering Scotch Collie puppies for sale. They are sable and white in color. Pedigrees will be furnished free.

C. G. Good, Ogden, Iowa, who has during the past few years attained considerable prominence as an importer of draft horses, has started for Europe with the expectation of again bringing over something of a high order of excellence. He informs us that he expects to return about the first of June, when further announcement will be made.

Kreischer's Herefords.

E. W. Kreischer, Mt. Vernon, Iowa, has a few extra good young bulls sired by Young Albany and Dale's Eclipse. One of these is an exceptionally good calf and will develop into a show bull. Some cows and heifers safe in calf to Young Albany (recently sold for $500) will be priced worth the money. Mr. Kreischer has an excellent herd of Herefords and would be pleased to hear from any of our readers. When writing kindly mention The Homestead.

Rambler Motor Cars.

The big advertisement on page 7 illustrates one of the imported and more recently perfected features of the Rambler. It has to do with that portion of the engine which provides the starting device and the electric lighting system. The whole advertisement makes good reading, but it does not tell one-tenth part of the important story of the Rambler cars. A beautifully illustrated catalog together with a handsome four-color reproduction of an oil painting will be sent free to any reader of this paper who writes Thomas B. Jeffery Co., Kenosha, Wis.

Cars for Farmers.

The advertisement of the K-R-I-T car which appears on page 34 contains some facts which farmers and prospective buyers will find to be of interest. They refer to th K-R-I-T engine, as the engine is the critical and all important part of the automobile. Our readers will at once realize that it is necessary to obtain an engine that is right at every possible point. Proof that the K-R-I-T possess all necessary advantages may be obtained in the handsomely illustrated circular for which address Krit Motor Co., 1660 Grand Blvd., Detroit, Mich.

Gate Sense.

There is no one thing about the farm that has been as unsatisfactory as an old wide farm gate. Generally it has had a man-killing weight that made it a dread of everyone who was obliged to operate it. With all its weight and unwieldiness it lacked qualities that made it fulfil the purpose for which it was made. It is a pleasure to turn to the little advertisement on page 33 and see an illustration of a gate, which, while it is light, easily handled and durable affords also perfect protection. It is horse high, bull strong and hog tight and a boy may handle it. It is sold on a thirty days' trial and with freight charges prepaid. Conditions of this offer may be learned by writing to Alvin V. Rowe, Rowe Mfg. Co., 476 Adams St., Galesburg, Ill.

Long Sam is for Sale.

One of the best sons of Thos. A. Shattuck's famous breeding boar, Sampson, is now for sale by Joshua Morgan, Hardy, Neb. This boar is called Long Sam, and the name is surely appropriate. He is an extra long, heavy-boned boar and of good size. He is out of the great breeding sow, Big Standard that sold in the Shattuck sale the fall of 1911 for $465. Long Sam is a full brother to Williams Bros., noted boar Big Sampson. Big Sampson is rated as one of the very best big boars in Iowa, and priced well up in four figures. Long Sam can be bought for $100 and the first check for that amount takes him. The writer does not hesitate to recommend this boar at this price, or quite a little more, as we know how he breeds, and we know that any breeder looking for a little more bone and stretch can use this boar. Mr. Morgan has a big lot of stuff by him and his gilts are so very fine that he plans on keeping practically an entire sow herd sired by this boar. This is not a fancy hog, though he is pretty smooth, but as he is extra long, he lacks quite a little of being a show boar. The boar is fully guaranteed and sold for no fault. Write today and mention this paper.

Breeders' Combination Hereford Sale.

The sale of Hereford cattle to be held at Kansas City, Mo., on May 6th will be one of the good sales of the year to attend if in the market for bulls or females as the fifty bulls and forty females come from representative herds. We herewith give short statement from each contributor regarding his offering which shows the appreciation these breeders have of the stock they are sending to the sale: Gudgell & Simpson.—As good a lot of heifers as I ever put in a sale, "Nuf sed." E. E. Wall & Son.—I am sending to your sale fifteen bulls and one cow that I believe will be a credit to me, to the sale and to the Hereford breed. Z. T. Kinsell.—I am sending Hereford I am proud of. Samuel Drybread.—I wish I could breed them all like the fifteen bulls I am sending to this sale. John Schmitt.—I am sending only very best bulls. O. S. Gibbons.—The kind that pushes the average up. Kansas Agricultural College.—Four useful cows, three with calves at foot. J. L. McGinnis.—Six splendid bulls with quality and size. R. M. Field & Son.—Two good cows in calf by Polled Prince 5th and good two-year-old polled bulls carrying twelve polled crosses. E. W. Elliott.—I am sending four of my best cows in calf to Advertiser 10th. Ed Walton.—My three polled bulls are high class by a great polled sire and out of polled dams. E. D. Gorman.—I am sending the kind to advertise my herd. The sale will start at ten a. m. promptly in the fine stock sale pavilion as the number to be sold in one day is large. For more complete information address R. T. Thornton, 1309 E. 15th St., Kansas City, Mo. See advertisement on page 41.

Economy in Milk Handling.

Economical practices may be employed in the most simple of farm occupations. The ordinary method of handling milk is wasteful in the extreme. Better plans and those which insure profits may be learned from the book published by the Sharples Separator Co., advertised on page 28 of this paper. This firm manufactures the highly perfected Sharples Tubular Cream Separator. The book mentioned and the special catalog may be secured by writing to Sharples Separator Co., Chester, Pa.

Rock Island Corn Planter.

The Rock Island corn planter is a phenomenal agricultural machine because it does automatically many things and does them so well that it has been called the corn planter that thinks. The number of grains to the hill may be instantly reg 'ated by the driver without stopping the machine or interfering with it in any manner whatever. The importance of these devices alone will be appreciated by farmers who have land that is spotted with rich and poor places, which require an adjustment of the number of grains to the hill. There are other devices equally as important, all of which goes to make it a corn planter above reproach. Full information concerning it may be obtained by writing for special circular, address Rock Island Plow Co., Rock Island, Ill.

Woodpecker Untouched by Flood.

Our readers will be pleased to learn that The Middletown Machine Company, 323 First St., Middletown, Ohio, where the electric-starting Woodpecker gasoline and kerosene engines are built, was untouched by the recent flood in that section. The factory suffered but one week's interruption through absence of workmen. Freight service is being rapidly restored over all lines, and prompt shipments are being made. If any of our readers are holding up an order for an electric-starting Woodpecker engine on account of the flood, you can send it at once and safely expect immediate delivery. See page 19 of this issue on which an advertisement for this company appears.

Appleton Quality.

Few active farmers can remember back far enough to recall a time the Appleton Mfg. Co., was not engaged in the work of making and distributing farm machinery, which led to better farming and better profits. Today the firm makes a special offer on the Appleton manure spreader, a small illustration of which appears in the advertisement on page 8. It is made with either wood or steel wheels and in all its construction it possesses a durability that makes it answer every requirement. It may cost a little more than some other spreader, but in the long run it will be found to be an economical purchase, because it wears longer and requires fewer repairs. It is made in ten styles, all fully described in their catalog, for which address Appleton Mfg. Co., 209 Fargo St., Batavia, Ill.

Inexpensive Conditioners.

Farmers who have not tried it may feel that the use of lye as a conditioner is not just in line with their ideas. If so it is because they have lacked experience. In the big advertisement on page 35 the testimonial made by Clayton Messenger is a convincing one. Mr. Messenger is a farmer who raises hogs as a business. He does it in a way which insures profits at the least possible expense, and without extravagent care. It will be noted that he makes use of Lewis Lye to good advantage, he tells how he does it and why he does it. Other farmers may learn to make the same profitable use and not only make money for themselves, but reduce the chances of loss of hogs. A great deal of important information may be learned from the book entitled "The Truth About Lye,' and without cost. Write to Pennsylvania Salt Mfg. Co., Philadelphia, Pa.

The Waukesha Guernsey Sale.

Every animal consigned to the fourth annual sale of the Waukesha County Guernsey Breeders' Association, which will be held at Waukesha, Wis., on May 22d, will be entered subject to the following conditions, which are quite unusual and which protect the buyer in, what would seem to be, every possible way: No animal will be cataloged for the sale until an entry fee of $3.00 has been paid. No animal will be accepted which is under five months of age at the time of the sale. No substitution of animals will in any case be allowed. Any animal consigned must not be sold previous to the sale. Every animal entered must be accompanied by a certificate of health, in triplicate, on or before the date of sale—one of which will be given to the buyer, one to be placed on record in the office of the secretary of the association, and the other given to the transportation company. Every animal must be guaranteed as represented and the consignor will be held responsible for such representation. In case any animal announced as bred proves not in calf, and fails to get with calf after a reasonable trial period it can be returned at the consignor's expense and another animal of equal value as near as possible must be given in exchange, and the expense of the last shipment borne by the purchaser. All animals offered for consignment will be inspected by a committee representing the association, who will have full power to accept or reject, as they think best in the interests of the association, even up to the time of sale. No person consigning animals to the sale will be allowed to bid at the sale or permit any person to bid for him.

Mammoth Jacks.

J. C. Huckstep, Eolia, Pike county, Mo., is always pleased to show the string of mammoth Missouri and Kentucky jacks he has in his barns at the farm near Eolia, Mo. Mr. Huckstep prices these jacks right and backs them with as good a guarantee as is possible to be had. Note page 45 for Mr. Huckstep's advertisement and when writing him kindly mention this paper.

Short-horn Herd Bulls.

F. H. Ehlers, Tama, Iowa, is offering for sale on another page three Scotch herd bulls. One of them is Lancester Sultan by Missie Sultan, another is a September yearling of the Lady Annie family and the other is a yearling Missie bull by Scotch Sultan, a noted prize-winning bull by the celebrated Whitehall Sultan. Mr. Ehlers will also sell some cows and heifers at reasonable prices. Write your wants mentioning The Homestead.

Farm Pump Engine.

The Fuller & Johnson Mfg. Company make an important announcement on page 19. It has to do with the Fuller & Johnson Farm Pump Engine. It is scarcely necessary to inform our readers that this engine is one which will compare with any other. The important point just now is that the manufacturers have decided to make an especially low-price offer and one which will interest every engine buyer. Full information may be learned by filling out the coupon in the advertisement and forwarding it to Fuller & Johnson Mfg. Co., 4 Ironton St., Madison, Wis.

Air-Cooled Engines.

Simplicity in any machine, whether it be devised for the use of the farmer or for the expert mechanic, is an all important feature. We are glad to call the attention of our readers to the advertisement of the Olds gasoline engine, which is made with the utmost simplicity and with an equipment for doing work not excelled by any other engine of its size. Particular interest arises from the fact that the smaller sizes of this engine are adapted especially to many of the duties of the farm that require engines of a portable character. For catalog address The Original Gas Engine Co., Dept. D., Lansing, Mich. See page 29.

How to Grow Strawberries.

Mr. J. L. Todd, Des Moines, Iowa, Route No. 3, whose advertisement appears in the Horticultural Department in this issue, is offering one of his little books on "How To Grow Strawberries" to every one of our readers who sends him $1.00 for his choice collection of 200 plants. The book tells how to prepare the ground and gives instructions on how to plant them. Mr. Todd says it is as easy to grow strawberries as any other small fruit or vegetables, and he advises us that this book is made up from his thirty-two years' experience in growing small fruits. We would suggest that our readers send him a trial order and get this little book.

Modern Binder Excellence.

One of the earlist recollections of the writer was that of driving four horses to a reaping machine, while two husky men took turns in raking off the bundles. It was a hard and tiresome job and one in which two men, a boy and four horses did no more work than now can be done by one of the late light-weight binders equipped with the original farm Cushman binder engine. The little Cushman is the latest work in the perfection of grain harvesting devices. It weighs only 167 pounds. It may be attached to any binder and its object is to operate the cutting and bindery devices thus leaving the hauling of the machine as the only work of the two horses. By its use grain cutting may be done very easily, even at a time when it would be impossible for four horses to drag a binder through the field. The importance of the advantages of the Cushman engine are so great that we must refer them to the catalog of the manufacturers for full illustrations. See advertisement on page 15 and write to Cushman Motor Works, 2029 N St., Lincoln, Neb.

Harold H. Bellows.

Breeders and admirers of Short-horn cattle who have for years realized and appreciated the valuable work carried on by the late George P. Bellows, will be pleased to know that the business is to be carried on by Harold H. Bellows the only son, who has always enjoyed the comradeship, the advice and instruction, such as can only be given by father to son in a business both enjoy and excel in. Colonel Bellows' fondest hopes were realized some few years ago when Harold showed by his work and actions that he aspired to follow in the footsteps of his father, by breeding superior Short-horn cattle. After two years at Northwestern University, Chicago, Harold Bellows entered the Iowa Agricultural College and it was planned that during the coming summer he would enter into partnership with his father, but the sad accident changed all. Harold Bellows now takes charge of the farm and the herd; the father's wishes will be carried out by a son who will do all in his power to cause the name of Bellows to continue in connection with better Short-horns as his father had hoped and planned. He has the qualifications gained through inheritance and by the instructions and advice of a master builder, he has the spirit found in winners. He is clean cut and square and the good name earned by father, uncles and grandfather will be upheld. That Harold Bellows will have the best wishes of every lover of good cattle is assured. The annual sales held under the name of Bellows Bros. will be continued, and Harold Bellows takes up the work where the untimely

accident ended the grand work of one who had bulided so well that his name and reputation will live on. We welcome Harold Bellows as a breeder. He is a gentleman whom our readers will be pleased to meet and know.

Moline Plow Company's Goods.

In an announcement on page 10 the Moline Plow Company state that the famous old and time-tried Adriance binder is now being put out by the Moline factory. The Adriance has been in the market for nearly sixty years. It has been given tests of the most severe character and it does not fail to do all work required of it. A booklet which gives complete details together with prices and other information may be obtained by writing to Moline Plow Co., Dept 11, Moline, Ill.

Phillips' Poland China Boars.

C. W. Phillips, New Sharon, Iowa, one of Iowa's good breeders of big-type Poland Chinas, is making very attractive prices on August and September boars sired by Big Bone 3d, a grandson of the noted Big Bone and a number by Long King Superior, one of the good sons of old Long King. Mr. Phillips makes a very fair proposition to our readers. If you need a boar send him a check for $25 and he will send you a boar that will please you. If when the boar arrives you are not satisfied, send him back and your money will be refunded. These pigs are in good, thirty condition and will develop into large boars. See the advertisement elsewhere and mention this paper when writing.

Matern Offers Percheron Bargains.

L. A. Matern, Wesley, Iowa, is offering on page 46 of this issue of The Homestead some good Percheron stallions, ranging in age from yearlings to five year olds. These are especially good bargains for the late buyer of stallions, and will be found to be just what Mr. Matern guarantees them to be. They are from the best of sires and are good in size, having the general type of the drafter that is making this section one of the best in the country in the growing of big, heavy and active draft stock. People who may write to Mr. Matern will find that it will result in placing before them some good deals on stallions of this breed. We ought to say in passing that Lou Matern is one of the livest of the young live stock auctioneers that it has been our privilege to see working in the ring at some of the Duroc Jersey sales in the northern part of the state. Those who may be contemplating holding a sale of breeding stock at any time will do well to write him for his terms. Address L. A. Matern, Wesley, Iowa. His advertisement of the Percheron horses appears on page 46 of this paper.

Faulkner's Spotted Polands.

Homer L. Faulkner, Jamesport, Mo., the man who has made the big spotted Poland China popular wherever hogs are raised has this year a great lot of spring pigs sired by his most noted breeding boars and from the sows that produced the hogs that sold in Mr. Faulkner's February sale at an average of over $90. Brandywine, Lucky Judge, Good Enough and Billy Sunday are the pricipal sires used and to these boars and the daughters of old Budweiser Mr. Faulkner owes much of his

success. Brandywine now past six years of age is Mr. Faulkner's leading herd boar and as a breeding boar he out ranks old Budweiser so that he is a worthy successor to the hog that made Faulkner's spotted hogs famous. The younger boars are proving excellent sires of big litters of spotted pigs and they are worthy assistants. Mr. Faulkner has made a specialty of herd headers and foundation stock for breeders and he is this year as usual prepared to furnish pairs or trios not related. He has never used any but spotted sires and dams and the result is his hogs are so bred that they throw spotted pigs at all times. Mr. Faulkner furthermore has never had a siege of cholera on Highview Farm. He uses the immunizing serum when cholera is near and always keeps his pens and the farm clean, so that his hogs have strong healthy constitutions. Last year Mr. Faulkner sold over 400 head, he is well stocked this year and as he has not changed herd boars he knows how the young things will develop so that it is possible for him to fill your order with pigs at weaning time, with every assurance that the pig will mature satisfactorily. By buying early express charges are light and you get the advantage of the early assortment of early farrowed pigs. Note page 43 for Mr. Faulkner's advertisement and when writing him kindly mention this paper.

Maasdam & Wheeler's Percheron Stallions.

Maasdam & Wheeler, Fairfield, Iowa, have some excellent imported two-year-old Percheron stallions that they are now pricing worth the money. All of these horses were personally selected in France by E. G. Wheeler, the junior member of the firm, a man who has the reputation of buying only the very best obtainable. Among these horses are a number that would do to head a band of pure-bred mares. They also have a few American-bred stallions and mares and fillies of different ages that they would price very reasonable. In their barns you will find the kind good enough to win at the best horse shows in the country and at the same time the prices asked for these horses are reasonable considering their quality. Write them your wants mentioning The Homestead.

Duroc Jersey Fall Boars.

Breeders of Duroc Jersey hogs will be interested in the statement made in the advertisement of Wm. Reed, which will be found on page 43. Mr. Reed is now offering some 200-pound fall boars, of the large, growthy, smooth and heavy-boned kind. He informs us that they are the best lot he has ever owned at one time. They are sired by Chief Select and Reed's Top Col. Their dams are daughters of Model Chief, Advancer, Chief Select and John's Ohio Chief. Students of Duroc Jersey pedigrees and those who are acquainted with Duroc Jersey history will at once recognize that the blood lines involved in Mr. Reed's herd are those which have produced the most famous animals of the breed. It is a generally accepted fact that Mr. Reed stands without a peer in his knowledge of pedigree and proper crosses. He will make specially attractive prices on any of these boars and is prepared to ship at any time. Those who care to make personal selections can do so without loss of time, as Mr. Reed's herd is now located adjoining the city limits. Address inquiries to Wm. Reed, Rose Hill, Iowa.

Geo. Allen & Sons' Short-horn Sale. Last Call.

In previous issues of The Homestead we have mentioned in some detail the offering of Short-horn cattle that will be sold by Geo. Allen & Sons, South Omaha, on April 22d. The writer feels that the Short-horn cattlem of the country owe it to themselves to attend this sale, for their unusual excellence is such as to appeal to those in search of Short-horns and we recommend them to Homestead readers. Arrange to attend. It is absolutely a business move to do so.

Imperial Automobiles.

The attractive and interesting advertisement of the Imperial Automobile Company will be found on page 11. This announcement gives prominence to the facts that quality always wins out, that economy in cost is important, that the Imperial has high merit for country service, that it has many advantages and that it is sold at a reasonable price. There are five types of the Imperial, each of which fills a special place in the demands of automobile owners. You may learn all about them in the Imperial catalog, for which address Imperial Automobile Co., Jackson, Mich.

Taylor & Welty's Hereford Dispersion Sale.

The well-known Hereford herd of Taylor & Welty will be dispersed at public sale at the farm near Wanatah, Ind., Tuesday, April 29th. A change in farming operations makes this sale necessary, otherwise the cattle would not be priced at all. This herd was established with the best of foundation stock, the herds of Hutcheon, Bryant and Van Natta being heavily drawn upon, and judicious additions have been made to it each year. Mr. Taylor has given the herd his personal attention. He is an excellent cattleman and the best of caretakers, and the results of his efforts will be seen sale day in a lot of attractive producing cattle. It is essentially a producing herd in the fullest sense of the term. There will be about eighty head, big and little in the sale, and the public will not be disappointed in the condition of the cattle. Over twenty of the cows will sell with calves at foot, sired by the stock bulls, Champion and Prince Donald, and everything of breeding age, and that means every female in the catalog, with the exception of a few yearling heifers, will be safe in calf. The cows in this herd are all the big breedy kind that make such good mothers, are as a rule all good milkers, easy feeshers and are bred along popular lines. There are very few sales in a year's time where one will find a lot of breeding cows and heifers that in real value approach those that will be submitted for public appraisal at Wanatah, Ind., April 29th. The three herd bulls included in this offering are: Champion, a grandson of Beau Brummel; Prince Donald, a son of the noted Prime Lad 9th, and Beau Alto, a grandson of Masquerader. Four other strong bulls are listed, as well as four choice bull calves. There is much about this lot of cattle to commend them to the public, and we bespeak for them the consideration on sale day that their merits warrant. The cattle are all good, young ages, all workers, in good shape and offered by a firm that is reliable in every way. The advertisement appears on page 40. Look it up and send for a copy of the catalog to Taylor & Welty, Wanatah, Ind., mentioning The Homestead when you write.

American Goods For Sale.

Some breeder who is wanting to buy a good Short-horn bull to head his herd will be interested in that splendid son of Imp. Choice Goods that W. H. McLaughlin, Shelby, Iowa, is offering for sale. This is American Goods, a bull that was bought from the Bellows Bros. at a long price. Mr. McLaughlin has used him for a number of years and desiring to hold his heifers he is therefore offering him for sale. His dam is Princess Violet by Alice's Prince and he belongs to that celebrated Marsh Violet tribe. Mr. McLaughlin also offers ten nice young bulls for sale. Write him at once or go and see these bulls. Kindly mention The Homestead when corresponding with him.

Art and Advertising.

Our readers have all undoubtedly noticed the series of large advertisements Montgomery Ward & Company have been running in our columns for some months past. This advertising is largely pictorial and it will probably not surprise our readers to be told that some of the best artists in the United States contributed to the work and the series has therefore cost the great mail order house many thousand dollars for art work alone. This large expenditure is a direct compliment to the American farmer and indicates his appreciation of the artistic and beautiful. Many of our readers keep copies of The Homestead for some time and we can assure them it will be a refreshing hour of study to turn back through issues of The Homestead for the last six months and study these advertisements, both for the pleasure and profit to be derived. We have especially impressed with the advertisement appearing on page 31 of this week's issue of The Homestead although many other previous advertisements have been fully as good. We are glad to say that this series will continue for some months.

Theo. Foss' Durocs.

One of the most enterprising breeders of Duroc Jerseys of Nebraska is Theo. Foss, of Sterling. Mr. Foss has been in the business only a few years but in that time he has assembled a nice line of stock. His herd was materially strengthened by the addition of a few choice sows the past winter. They were purchased from good herds and mated with good boars. Mr. Foss reports the spring crop coming in nice shape and that he has a good number. A majority of the spring pigs are by Prince of Col. 2d by old Prince of Col. He is really one of the real good Prince of Col. boars of the country. He is breeding well. Mr. Foss has a very few fall boars for sale, and they too are of good breeding. Kindly write about them at once, they are priced low, and when doing so, kindly mention The Homestead.

Bryson's Short-horn Sale.

Sixty head of producing Short-horns will be offered at public sale at Lake Fork, Ill., Tuesday, April 29th, by W. H. Bryson, and the public will find the cattle a most satisfactory lot of breeding animals in good condition. Mr. Bryson has been breeding cattle for a good many years. A practical cattleman, he knows the requisites of a satisfactory beef animal, and has been producing that kind on the broad acres of his farm at Lake Fork. His cattle have always been handled in a manner conducive to future usefulness, and as a consequence the buyer will have submitted to them a lot of big, rugged, breeding matrons, with scale and constitution, regular producers, heavy milkers, the kind that will prove profitable to anybody. There are forty-five females cataloged for this sale, and fifteen bulls. Included in the bull offering is Bryson's herd bull Golden Edgewood, sired by Golden Prince and out of a dam by Ceremonious Archer. He is coming four years old, and is only offered owing to the fact that Mr. Bryson has so many of his daughters in the herd. He is well enough bred to go into any herd and his condition is good enough to please the critical buyer. There are fourteen young bulls listed, all sired by Golden Edgewood, and a soggy, short-legged, thick, meaty bunch of youngsters they are. They have never had any special fitting, having run outdoors practically all winter, but they are made right and the manner in which they have been handled assures buyers that they will give a satisfactory account of themselves. The production of good cattle rather than a desire to follow certain blood lines in breeding has been Mr. Bryson's policy, and the excellence of his work will be seen sale day. This is a lot of cattle that should appeal to every farmer in the corn belt, as they are the sort that will add value to every farm. They are a beef proposition of the best kind and worthy of strong appreciation on sale day. The sale will take place at the farm which adjoins Lake Fork, a town on the Chicago and St. Louis branch of the Illinois Central railroad, twenty miles east of Springfield and fifty-six miles south of Peoria. Write today for a catalog to W. H. Bryson, Lake Fork, Ill., mention The Homestead, as per the advertisement on page 41.

Angus Bulls.

John Lakings, Hurley, S. D., can describe to prospective buyers five of the choicest sort of young Angus bulls. They are of herd-heading qualities and deserve attention from men who want the best. The old sire now on the farm there, is a type all will admire and his calves that are in this bunch are indeed excellent ones. With the demand for good cattle increasing at its present rate, and the scarcity of good bulls at this time these young males are the sort that will help anyone to produce a profitable type of cattle. Write now to Mr. Lakings, mention this paper. Address John Lakings, Hurley, S. D.

Porter's Duroc Jerseys.

J. C. Porter in an advertisement on page 43 announces that he has now for sale a few extra good Duroc Jersey boars of October farrow. These he says have lots of size and quality, plenty of length, good bone, strongly arched backs, short, broad heads, nicely tipped ears and an excellent finish. They are sired by R. J.'s Chief, he a grandson of Ohio Chief. Their dams are of Crimson Wonder and High Col. breeding. These pigs will weigh around 150 pounds. Among them are some extra good ones. Reasonable prices will be quoted. Mr. Porter guarantees satisfaction to his patrons. Address inquiries to J. C. Porter, Ogden, Iowa.

Drybread's Bull Consignment.

Samuel Drybread, Elk City, Kansas, consigns twelve choice Hereford bulls to the combination sale to be held at Kansas City, May 6th. These are a choice lot which range in age from twelve to twenty-six months. They have been selected from a lot of 150 head. They carry strong infusions of Anxiety blood. They are close descendants of such sires as Beau Brummel, Imported Britisher and other sires of high merit. Mr. Drybread insists that this is the best lot of bulls he has ever sent out from his herd. They have been reserved for this sale, although tempting offers have been made for them at private sale. The sale will take place at the stock pavilion at Kansas City. For catalogs address R. T. Thornton, Manager, 1313 E. 15th St., Kansas City, Mo.

Closing Out Clydesdales.

If there is any of our readers who wants to buy a good Clydesdale stallion they should lose no time in seeing R. O. Miller, Lucas, Iowa. He desires to close out all of his Clydesdale stallions and is making special prices for the next thirty days. He offers to sell his great young stallion Right Choice, a first-prize winner at Toronto and Ottawa, two of the strongest shows on this side of the water. This is a stallion that is good enough to go anywhere. Another great colt is Lord McQueen, a son of that sensational show and breeding horse, McQueen, Baron Erskine, a son of the great Two and Two and Lord Corndale, a grandson of that noted horse, Baron Pride. We know of no place where such Clydesdales can be had for such money as Mr. Miller is offering. We therefore say to you to go and see Mr. Miller and these horses without delay.

Russell's Pontiac Hengerveld Parthenea.

The value of a herd sire is determined by his individuality, breeding and ability to transmit to his progeny the great qualities of his ancestors. Taking the three features as a whole, where can there be found today the equal of Pontiac Hengerveld Parthenea? First of all, individually he is all that is to be desired, typical in dairy form, large, possesses great depth of body showing marvelous capacity and constitution, is an extra good handler and a remarkably nice bull in every way. The dam is a good record cow with an excellent list of daughters. She is a daughter of Sir Inka Artis Mechthilde and Netherland Triumph 3d. While Netherland Triumph 3d never was afforded the opportunity of an official test, she was a cow of great transmitting ability and she comes from a line of ancestry that has produced many large record animals. Sir Inka Artis Mechthilde has proven a sire of more than ordinary merit and he is strongly bred in the lines that were best known in the earlier history of the breed in this country. The sire, Hengerveld De Kol, is one of the two only sires having in excess of four thirty-pound daughters and he is far in the lead as a sire of twenty-pound cows. His dam is a daughter of the former world's champion, Netherland Hengerveld and Milla's Pietertje Netherland, one of the greatest sires of his time and to whom traces a large percentage of the breeds largest record cows. The sire of Hengerveld De Kol is De Kol 2d's Butter Boy, one of the best sons of De Kol 2d, and a bull unsurpassed as a sire of renowned sons. These excellent blood lines coupled with his own superior individuality have made possible his long list of great record daughters which is headed by the world's champion senior four year old. Agatha Pontiac (36.9 pounds). Another of his daughters has just completed a record over thirty-one pounds and several others have every appearance of being fully capable of like production. Potiac Hengerveld Parthenea has many daughters not yet in milk and in the very near future his list should be largely increased in number and it is safe to say his list of daughters will average higher also. There is no better dairy sire in service today. Twenty-five of his daughters

NEXT WEEK'S SALE PROGRAM

Tuesday April 22 — Short-horns, George Allen & Sons, South Omaha, Neb.

Wednesday April 23 — Short-horns, Firme & Stone, Hastings, Neb.

DISPERSION SALE OF TAYLOR & WELTY, HEREFORDS, WANATAH, INDIANA, TUESDAY, APRIL 29TH

55 Head. 11 Bulls, 20 Cows With Calves at Foot

We have decided to disperse our herd owing to a change in our farming operations. The foundation stock for this herd was selected with sound judgment from several of the best herds in the country, and no expense was spared to get the best possible stock. There will be nearly eighty head, big and little. The bull offering includes our three herd bulls. Champion 166175, a grandson of Beau Brummel; Prince Donald 370541, a son of Prime Lad 9th, and Beau Alto 25th, a grandson of Masquerader. In addition there are three two-year-old bulls, one yearling and four bull calves, all good ones. The females are a grand lot of big, healthy, producing cows, over twenty of them with calves at foot, and all of breeding age safe in calf to one of our herd bulls. The cows are the get of Donald Rex, Prime Lad, Parsifal, Beaumont, and other noted sires, and are as good a lot of cows, numbers, breeding and individuality considered, as have been presented anywhere at public sale. Come and own some of the grand big cows in this offering, all producers, and from the most popular strains of blood. Everything will be sold. No reserve. Come and spend a day with us. It will do you good, whether you buy or not. Cols. Reppert, Huxley and Hepp, auctioneers. Write today for catalog, mentioning The Homestead, to

TAYLOR & WELTY - - - - WANATAH, INDIANA

Wanatah is on the main line of the Pennsylvania railroad, fifty-two miles east of Chicago. Farm joins city limits. Sale under cover.

are included in the great Holstein sale of T. H. Russell, Geneva, Ohio, May 1st and 2d. A picture of this remarkable sire will be found elsewhere in this paper.

Saunders' Short-horn Bulls.

Those of our readers who are wanting good, young Short-horn bulls should go and see C. A. Saunders, Manilla, Iowa. He has a number of good young Scotch bulls that are herd headers and he is pricing these where they will sell. If you are on the market for a bull make it a point to see Mr. Saunders at once.

Overland Excellence.

On the last page of this paper appears a most effective announcement of Overland cars. It is certainly a strong argument in favor of the Overland, that the increased sales in something like a dozen states have been so notable as shown by the figures in the advertisement. These figures are absolute proof of the high quality of the Overland cars. The Overland is a time-tried car and one which has been constructed with particular aim to fill the demands of critical buyers, men who understand car quality and were willing to pay the price when they found it. It is worth while to look at the Overland before buying. It is worth while to note the remarkably low price at which it is sold. Other information may be obtained by writing to The Willys-Overland Co., Dept. 80, Toledo, Ohio.

Extraordinary Aberdeen Angus Spring Bull Sales.

Every breeder, farmer and rangeman in need of a bull or bulls should be interested in the Aberdeen Angus spring bull sales which are to be held at Omaha, Neb., April 29th and May 1st at Chicago. These sales are held under the auspices of the American Aberdeen Angus Breeders' Association. Every bull that will be offered will be guaranteed by the association through its members. Seventy-five bulls will be offered at Omaha and ninety-five at Chicago. The association is not holding these sales for pecuniary profit, but instead is holding them for the purpose of assembling a large number of bulls at Omaha and Chicago so that breeders and farmers in need of bulls can attend the sales and have a large number of choice bulls to make their selections from. The association has made a liberal appropriatio to partially defray the expense of the sale. The bulls are from the leading herds of the country. They have been specially developed for the spring bull sales.

There are twenty-five Blackbirds, twenty Ericas, twenty Prides, fifteen Queen Mothers and represen atives of all the other leading families. There will be bulls of all ages and they will sell at different prices to suit the farmer and rangeman as well as the veteran breeder. Every bull listed will be sold even if they only bring a beef price. There will undoubtedly be many bargains. There is a great scarcity of breeding bulls in the country of all breeds. It is to every farmer's intertest to buy an Aberdeen Angus bull because they represent the best beef breed of cattle in the world and they are still selling at very low prices. The association has made a systematic inventory of all bulls fit for service and has cataloged practically every bull that measured up to the required standard of individuality. The breeders who have consigned the bulls are prepared to take farmers' prices for their bulls thus it is to be hoped every cattleman in need of a bull will avail himself of this opportunity to secure his needs. There will not be another opportunity this season to secure bulls of any breed or the Aberdeen Angus because the Aberdeen Angus bull sales will practically clean up all the bulls old enough for service. Now is the opportune time to get into the breeding of beef cattle. Before this time next year bulls will be selling at much higher prices and every cow fit to breed will have doubled in value. Farmers all over the country are realizing it will pay to breed beef cattle and the demand for bulls the past few months has been greater than has been in evidence for many years. It is to be hoped every breeder, farmer and rangeman will avail himself of this last and only opportunity of the season to secure his needs and his own price. Catalogs are now ready for distribution. Anyone interested in these sales should send to Chas. Gray, secretary and sales manager for a catalog at once and examine the list of names of consignors and the pedigrees of the animals listed. Arrange to attend these sales. They will be the greatest events that have taken place in Aberdeen Angus circles for many years. The bulls will be shown and prizes awarded in the mornings and sales will be held in the afternoons. Anyone unable to attend the sales should arrange with his commission firm to secure his needs. Bids sent to Col. Silas Igo or to Chas. Gray, secretary, will receive careful and personal attention.

Hess & Son's Short-horns and Polands.

One of the oldest and best known herds of Poland Chinas and Short-horns in Nebraska is owned by H. H. Hess & Son, Surprise. Everything at their farm has wintered in splendid condition, and the prospects for an extra choice lot of Poland Chinas this fall is most encouraging. About 100 fine early pigs are on the farm, principally the get of Pleasant Lawn Special 2d, a grandson of Blue Valley Quality. They are out of sows by Big Major, a son of the 1,05-pound Long Chief, Jumbo Quality, Wade's Jumbo, Searchlight, Price's Wonder and Hess' Jumbo. This is all the very best of big type stuff and the former reputation of this herd will be more than maintained by this offering. Bull trade has been extra good with this firm, and nothin a year old has been on the farm for some time. The great breeding bull, Good Knight, is in service in this herd, and the writer is of the opinion that he is one of the best half dozen bulls within the state. An extra choice young bull by this sire and out of the good young cow, Dew Drop, a full sister to the great show and breeding bull Diamond, formerly owned and used by Hess & Son. Dew Drop is by Golden Victor and traces to Imp. Fair Queen by Gladstone. This bull is a herd header of the right sort. Another very choice prospect is a full brother to a bull these gentlemen sold to Wm. Gleed, Chambers, Neb. Mr. Gleed had searched a long time for a choice bull and was pleased with this selection. He is also by Good Knight and out of Butterfly Lady by Godwin, tracing to Imp. Butterfly 43d by Royal Duke of Gloster. There are still a few others that will develop into splendid bulls, but the ones just mentioned are the sort that are extremely hard to find. Readers of The Homestead in search of something of this sort will do well to address H. H. Hess & Son, Surprise, Neb., for full particulars. Also keep the Poland China herd in mind, for much desirable stock will be for sale within the season.

Firme & Stone's Short-horn Sale. Last Call.

On April 23d will occur the sale of Short-horn cattle that will be made by R. C. Firme, Hastings, Neb., and A. A. Stone, Hansen, Neb., the sale to be held in the sale pavilion in Hastings, Neb. This sale is the day immediately following the sale of Short-horns that will be made by George Allen & Sons, South Omaha, and as the train service is exceptionally good, the writer would urge Homestead readers to take advantage of the opportunity here presented to attend these two great sales with so little expense. These are good cattle in the Firme & Stone sale and there will be both bulls and cows that will meet with the approval of those that are seeking choice beef-producing cattle. These herds are well-established herds, and herds that have employed a number of valuable sires. The writer especially urges that those of our readers that can, to avail themselves of this chance to make selections from those good herds. Hotel accommodations are first class in Hastings, and the train service to all points is all that could be wished. It will be a bit late for the catalog, but prompt work will get it to you in time for the sale. Mention The Homestead if you should write.

Some Extra Choice Durocs.

With this issue of The Homestead, J. C. Theobold, Ohiowa, Neb., starts an advertisement in which he offers a few fall Duroc Jersey boars, also a few fall gilts and the junior yearling boar, Crimson Chief. The writer saw this stock a few weeks ago and we wish to say that we do not hesitate to recommend this line of stuff to anyone needing some good ones. There is not a better bred lot of stuff in Nebraska and as individuals they must please those that are really familiar with the good kind. One extra choice fall boar is by Valley Chief Co., by Col. Chief and out of a daughter of C. W. Again. Another choice fall boar is out of the noted sow Ohio Belle by Ohio Chief and still another is a fall brother to the junior yearling boar, Crimson Chief. Crimson Chief will make an extra good junior yearling show, and he can be bought below what such a boar should really sell for. The fall boars are really good show material and extra high-class herd-header prospects. The gilts are fully as good. This stock is the sort the writer wishes to recommend to all that wisn to buy, for we know that if the buyer will do his part by these hogs in the way of decent care that they will positively make good. Mr. Theobold is naming prices on this stuff that is below what such hogs can usually be bought for and we would urge our readers to make application for whatever of these hogs they wish at once. Mention The Homestead when you write.

Start to raise that mortgage now
Start with the Russell type of cow.
She's the cow that coins the dollar
Buy her kind and you'll never holler.

Russell's Great Holstein Sale.

May 1st and 2d T. H. Russell will sell 200 head of Holstein cows and heifers at Idle Hour Place Stock Farm, Geneva, Ohio. The fact that 200 head are to be sold makes it an event of more than ordinary importance, but when you add to that the fact that the animals are of the strongest lines of breeding and that every one is guaranteed to be without a blemish, it is at once apparent that this is a sale that should attract the attention and patronage of every person in this country who is interested in Holstein cattle. Daughters of some of the greatest sires known to the breed are listed in abundance, and they come from high-producing dams, while there are plenty of high-powered record animals cataloged that will add strength to any herd. Recently Mr. Russell purchased the great sire Pontiac Hengerveld Parthenea at a very long price, and twenty-five daughters of this great bull are listed. He is the sire of the champion four-year-old cow, and has numerous daughters in the thirty-pound list, and today his get are probably as much if not more sought after than those of any other Holstein bull. There will also be fifty-five daughters of Count Cornucopia Korndyke, a bull of very superior merit both as regards individual worth and breeding. He is a son of Pontiac Korndyke and the $8,000 cow Pontiac Rag Apple, making him strong in the blood of Hengerveld De Kol and Pontiac Korndyke, two of the greatest sires known to the breed. When one considers that fifty-five daughters of this great sire and twenty-five daughters of Pontiac Hengerveld Parthenea are included in the sale list it is easy to see the importance of this event. Mr. Russell had originally intended to make two different sales this year, but finally decided that it was the best for the buyers that they should be given an opportunity to make prices upon 200 at one time and decided to make the sale a two-day event. At no other breeding establishment will buyers find such an opportunity. Mr. Russell guarantees there will not be an undesirable animal in the list, and his guarantee is good in every way. Mr. Russell has made a success of life, both as a big business man and as a progressive farmer and breeder. He is a man of big ideas and consequently does things on a big scale. He has proven to his satisfaction that the Holstein breed is the dairy breed that will produce the most satisfactory returns, consequently he is giving to that breed his heartiest support, and knows that he is producing the sort that will not fail to make good. Opportunities such as this are not presented to the buying public very often and when they are should be appreciated and taken advantage of. The daughters of the greatest sires known to the breed, and cows and heifers bred to these sires form a proportion so attractive and unusual, especially when one considers that there are 200 of this class of Holstein females to be offered at Geneva, May 1st and 2d, that it would seem no further announcement would be necessary to attract the buyers from every section. The catalog

Chicago Farms' Wonderful Dairy Records.

R. B. Young, Buffalo Center, has been making some milk records with his Holsteins at his Chicago Stock Farms, which ought to be brought to the attention of every breeder of cattle in the corn belt. There has been an impression that the biggest records in milk and butter production have been made in the dairy regions east of the corn belt, but there are not many breeding establishments that can equal the record Mr. Young has made and can show the production by as many cows as near the leaders of each class as his herd can now. The following is a list of some of the cows and their milk and butter records for a year:

CHICAGO STOCK FARM'S YEAR RECORDS, 1912.

	pounds of milk	pounds of butter fat
5 year old and over.		
Pauline Queen Johanna	25,660.1	819.72
Spotted Lizzie 3d	24,347.9	807.897
Pauline Paul Beerepoot	22,989.1	777.25
Skylark Mercedes De Kol Johanna	20,642.0	717.96
Lady Hengerveld De Kol Rue	20,642.0	683.20
Miss Netherland Artis Parthe	17,629.7	679.10
De Kol Myrtie Zozo	16,604.7	593.65
Cusha-Netherland Twisk	17,780.7	576.636
Average		706.926
Senior 4 year olds.		
Aaggie Johanna Rue	20,243.4	724.10
Chloe Mechthilde 2d Panth	18,926.9	666.63
Oakhurst Duchess Clothlide	15,765.6	512.00
Average		634.24
Senior 3 year olds.		
Boyden Lady	16,038.1	555.03
Buffalo Mildred	14,341.6	465.48
Average		510.25
Junior 3 year olds.		
Buffalo Syklark Victoria	13,778.7	524.41
Junior 2 year olds.		
Buffalo Duchess Skylark	18,966.5	574.88

It follows that bulls and heifers from a herd like this are the best purchases one can make, for they are the most profitable and we have never seen a herd that showed such thrift and size in good dairy animals as in the herd on Mr. Young's farm. His advertisement on page 28 will tell what he has for sale. Address Chicago Stock Farms, R. B. Young, Buffalo Center, Iowa.

tells the story and should have wide distribution. It can be secured if you mention this paper and address T. H. Russell, Geneva, Ohio, as per the advertisement on page 42.

Held Bros. Offer Short-horn Bull.

Held Bros, Hinton, Iowa, offer just now a well-bred roan Short-horn bull fifteen months old to breeders looking for a service sire of good character. The equipment in breeding stock that this farm has in the past season has produced some extra choice stock and this bull, one of a pair that were offered for sale a short time ago, is the good sort that have made this farm so favorably know .. The Held Bros. also offer a large stylish imported German Coach stallion and another home-bred one showing much qaulity of the same breed. Their advertisement appears on page 43. Address Held Bros., Box 7, Hinton, Iowa.

Metz & Sons' Big Stallion Sale.

S. Metz & Sons, Homewood, Ill., are making some very attractive prices on their Percheron stallions and mares in order to clear their stables before the close of the season. Every spring Metz & Sons make a vigorous campaign for buyers and make such attractive prices and terms that their program has attracted wide attention and prospective buyers have come to realize that it is a good plan to wait for this sale. This spring they are better equipped than ever to care for the wants of their patrons, and are offering a very attractive lot of Percherons and Shires, both imported and home bred, good, young ages and in excellent condition, that they are certainly pricing worth the money. They can also supply you with a span of mares of the right sort. Look up their advertisement and write them your wants, mentioning this paper.

Herd-Heading Poland China Boars.

F. R. Barrett, Cadams, Neb., is offering Homestead readers just now an exceptional opportunity to get some choice Poland China boars at very reasonable prices. These boars are from one of the oldest established herds in Nebraska and are of the real herd-heading sort. They are sired by Jumbo Jim a son of Wade's Jumbo by the 1,000-pound Jumbo that stood at the head of the Wintermute herd for some time. Some boars are also by Blue Valley Wonder by Blue Valley Quality, this being the line of breeding that has made the Thos. F. Walker herd famous over a continent. The writer recommends these boars to those of our readers that really wish something choice, for they are certainly of that class. Do not hesitate to write about these boars, or to order, for they are priced much below what they are really worth as breeding propositions. Full description and prices will be sent by return mail. With the great scarcity of meat-producing animals that is now fully apparent, those of our readers that are in such position that they may, should certainly breed a number of sows for fall litters, and the boars mentioned above are the right sort to buy. Mention The Homestead when you write.

Gudgell & Simpson Cattle in Kansas City Sale, May 6th.

The Gudgell & Simpson consignment to the sale at Kansas City, May 6th, consists of fifteen heifers, two years old past and all bred. They are all of their own breeding and, of course, strong in Anxiety 4th blood. They have the well-recognized Anxiety 4th type and characteristics, good heads, strong bone, thick flesh naturally, deep bodied and blocky. All of them will make big fine cows. Those heifers are sired by Beau Picture, Beau Dandy, Domino, Beau President and Bright Donald. Six of the number are sired by Beau Picture, a son of Beau President, out of a Perfection cow, that is producing some of our best calves today. Those who have attended our sales of the past two years have remarked the excellent backs and loins of the Beau Picture heifers together with splendid quality and thickness of flesh. Four have Beau Dandy as their sire and reveal the scale and easy feeding qualities that Beau Dandy transmits to his offspring. Of all the Beau Brummel bulls we have ever used Beau Dandy most resembles his famous sire. Three are by Domino, a bull that is fast making a great record for himself as a producer of uniformly good things. His heifers are a type that are easily recognized and of the right sort. Although not an old bull, already some of the best herds in the country have sons of Domino at their heads, that are making good. Competent judges have said that Domino has the ideal Hereford head. His heifers in this sale demonstrate the fact that he reproduces this important feature in his calves. One heifer, Correline 16th, is sired by Bright Donald, second prize aged bull at the St. Louis World's Fair and out of a good Beau President cow. Flossie 8th is by Beau President himself and of the well-known type turned out by this great bull. The dam of Flossie 8th is Flossie 3d, a Banner Bearer cow of great scale, thick fleshed and blocky. Marietta 37th by Beau Dandy is one of the plums of the offering, thick fleshed, of good scale and blocky build. Governess 6th, by Beau Picture has that thickness of loin and flesh on the back that mark the correct type of the best beef-producing blood. Bright Duchness 63d by Domino is a typical daughter of her sire, with beautiful head and feminine character, built close to the ground and smooth as an egg. These heifers are all safe in calf to our regular herd bulls. Some of them will drop calves within thirty days from the sale day. They have not been injured by high feeding, but have had plenty of good feed and spent their entire lives out of doors so that there is every reason to believe they will go on, do well and prove regular producers for the purchaser. With grass right at hand this is the most favorable time to get some of these good heifers. They will soon have calves at foot to pay the bill at small expense for production. This is the kind of heifers that will look good in any breeder's herd and the very best of foundation stock for the beginner. The cattle will be held on our farm near Independence, Mo., up to a few days before the sale. We will be pleased to show them to interested parties before the sale. Further information will be furnished on request. Catalogs sent on application to us or R. T. Thornton, 1309 E. 15th St., Kansas City, Mo.

HEREFORD SALE

60 BULLS
40 COWS
AND HEIFERS

Breeders' Combination Sale, Kansas City, Mo., May 6th

IN THE FINE STOCK PAVILION AT THE STOCK YARDS.

50 BIG Strong Bulls of Serviceable age, royally bred, showing both character and quality. Forty Young Cows of superior quality and most popular breeding. A carefully selected and reserved lot of High-Class Herefords, both males and females, from 10 of the best herds of Missouri, Kansas and Iowa, contributed by the following well-known breeders:

Gudgell & Simpson, Independence, Mo.
Z. T. Kinsell, Mt. Ayr, Iowa.
E. E. Wall & Son, Leeton, Mo.
Samuel Drybread, Elk City, Kan.
John Schmitt, Tipton, Kan.
O. S. Gibbons & Son, Atlantic, Iowa.
Kansas Agri. College, Manhattan, Kan.
J. L. McGinnis, Moulton, Iowa.
E. D. Gorman, Lineville, Iowa.
R. M. Fields & Son, Lees Summit, Mo.
E. W. Elliott, Montezuma, Iowa.
Ed Walton, Bowen, Ill.

Sale to begin promptly at 10 o'clock a. m.

For Catalog or other information Address R.T.THORNTON, Mgr., 1309 E. 15th St., Kansas City, Mo.

FOREST HOME
SHORT-HORN SALE

LAKE FORK, LOGAN CO., ILL., TUESDAY, APRIL 29, 1913

60 HEAD. 15 Bulls, 45 Cows and Heifers. 60

THE cattle to be offered in this sale are a practical, thrifty lot, nearly all produced on Forest Home Farm, raised under conditions that tend toward future usefulness, and will give a good account of themselves.

15 Bulls Are Listed, including the herd bull Golden Edgewood, by Golden Prince, out of a dam by Ceremonious Archer. The balance of the bulls are yearlings, all by Golden Edgewood, and a lot of low-down thick, soggy youngsters, old enough for service.

45 Cows and Heifers Will Be Sold, all of breeding age either with calves at foot or bred. The cows in this herd are all producers, the big, roomy kind that make the thrifty matrons, raised under outdoor conditions, with a view to health and productiveness.

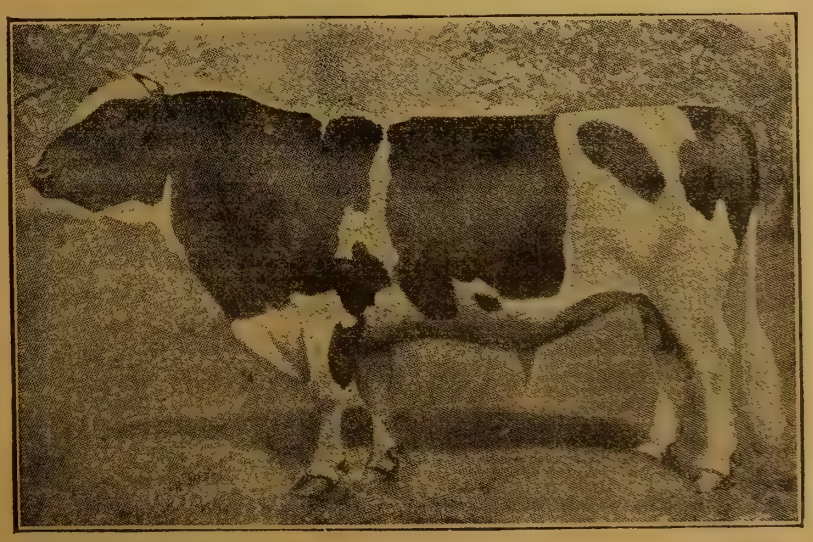
This is no speculative lot of cattle, but the natural increase from a herd that numbers 200 head, and we submit them to the public confident they will please all who are looking for good values and who put individual merit before anything else. Write today for the catalog, mentioning The Homestead.

W. H. BRYSON, LAKE FORK, ILLINOIS

Cols. Carey M. Jones and B. H. Keck, Auctioneers. Lake Fork is on the Chicago and St. Louis branch of the Illinois Central railroad, twenty miles east of Springfield, four miles west of Mt. Pulaski and fifty-six miles south of Peoria.

Frank Iams Reports on his Offering.

Frank Iams, St. Paul, Neb., in calling attention to his thirty-six imported Percheron and Belgian stallions and mares, says: Mr. Stallion Buyer:—"Get busy"—visit "Iams' Horse Emporium"—today, he has "reduced prices"—from $100 to $500 each on "business" and "show stallions." To "close out" all his "stallions and mares." They will "positively" be sold at "some price"—"Ikey" "come on along" and get a "big slice" of "Iams' melon" at "knock-out prices" for "top notchers"—you will positively buy of Iams—if you visit him and want big—drafty—"prize winners." Iams has all his largest and best "business horses" and all his choice "Paris and Belgian" "prize winners" are in his barns. "Iams'" "tops" of "his herd" are always in his barns at the "last end" of the season. "Iams" has thirty-six imported "Paris and European" prize winners. They are Iams' "champion show herd" and the best ten stallions and mares in the United States. "Ikey Buyer"—don't wait to buy a "top notcher" until next year—buy now—save $1,500 and buy a "Paris winner" that you can't always get a chance to buy. One year's time at 8 per cent, bankable note; two years' time at 6 per cent—land security. His "peaches and cream" stallions go at $1,000 and $1,400 (few little higher). mported mares (best in the land) at $800 and $1,000. "Ikey Boy" see Iams now and buy "top notchers" at a little above cost, as all of Iams' horses will positively be sold. Be a "wise guy" buyer and save $1,500—buy a "Paris winner." "It's up to you," Mr. Stallion Buyer, buy a "through ticket" to "Iams' horse town." Walk right in and say "Hello." Iams will meet you with a "$1,000 smile" and treat you like "a prince," and there are "some doin's" there daily. Iams' Big "ton," superb, classy imported stallions and Iams' low-cut prices "show and business" stallions and mare are the "big talk" of "stallion buyers" and Iams' Paris "prize winners," make all buyers "sit up and take notice" and can't be driven away until they own one of "Iams'" "top notchers" at his "bargain-counter" prices. Iams and the "pink lady saleslady" will not let any buyer with money or good notes get away. "Ikey" "come on along." Buy imported horses today. Don't wait, as all Iams' top notchers must be sold in the next thirty days. They are "big snaps." That is why Iams and the "pink lady saleslady" are reducing prices on "show and business" stallions and big mares. He made a "killing" buying these "top notchers" and to close out and have new faces he has determined to sell and give buyers the benefit of his "good buy" in 1912. "Ikey Horseman," Iams' six financial letters of recommendation from six of the best banks in Nebraska (shown in his 1913 catalog) tell you why you should buy imported stallions and mares of Iams. His thirty-one years of successful business, his "$500,000" behind his guarantee—the fact that he is a "live wire" business man ad expert horseman—in a "class by himself." He makes all competitors "stutter" and "get their hammers" out for Iams. But every "knock" is a "boost" for Iams, as when stallion buyers visit "Iams' Horse Emporium" they find Iams has the horses as represented and that Iams "makes good" and his "old customers" are his best "whole-page advertisers." "Ikey," "get busy" quick, buy show horses of Iams at "reduced prices" and "wear diamonds." Iams is sure taking "the curl" out of "high prices" on the best bunch of real "top notchers" ever offered for sale in the United States—all "show horses" and at some price and "some less" than for ordinary stallions. He is making buyers "go fast" to get his "big bargains" and his buyers will be on "Easy Street" if they buy stallions and mares now of Iams, at closing-out prices. Iams' cherries are ripe "for the picking."



Holstein bull, Pontiac Hengerveld Parthenea, sire of the world's champion four-year-old cow. Particulars regarding this great sire, which is owned by T. H. Russell, Geneva, Ohio, are given in our field note column.

Don't say that you're too far away
To come to Geneva on the 1st of May.
Stop the planter, lay off a day
And buy a Holstein da-i-ray.

HOLSTEINS

May 1st and 2d is the date,
Geneva is the station;
Russell's herd is the one on sale,
The best in all creation.

Tell me not in idle jingle,
Russell's sale is but a dream;
For the crowds with whom you mingle
Are very fond of Holstein cream.

Russell's Third Annual Sale, May 1 and 2,'13

200 Head Registered Holstein Females 200
Every Animal Guaranteed Without a Blemish

25 Daughters of Pontiac Hengerveld Parthenea 39972
55 Daughters of Count Cornucopia Korndyke 60247

Daughters of
- Crown Prince Segis
- De Kol Hengerveld Burke
- King Pontiac of Brookside
- Sir Korndyke Manor De Kol
- Paul Beets Walker
- King Pontiac Ted
- Admiral Prilly Walker
- Rag Apple Aaggie Korndyke
- and many other well-bred sires

Granddaughters of
- Pontiac Korndyke
- King of the Pontiacs (sire of the new 43-lk. cow).
- Hengerveld De Kol
- King Segis
- De Kol 2d's Mutual Paul
- King Fayne Segis
- Homestead Girl De Kol
- Sarcastic Lad

THE EVENT OF THE SEASON

Auctioneers, Canfield, Kelley, Jones, Perry. **Mgrs. of Sale, The Holstein Breeder Co.**

IDLE HOUR PLACE STOCK FARM, T. H. Russell, Geneva, Ohio

Write for Catalog, Mentioning The Homestead.

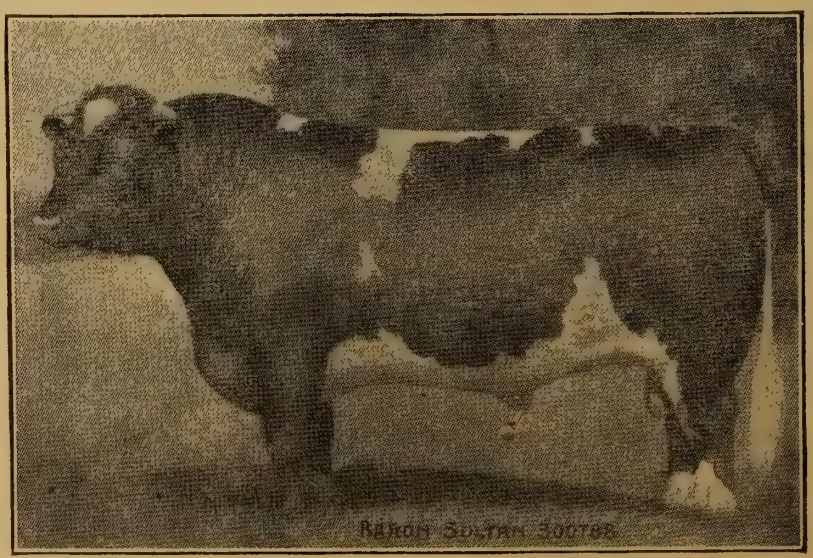
THE LIVE STOCK MARKET

Union Stock Yards, Chicago, April 12th.—Conditions in the live stock trade have changed somewhat radically this week and at the close there appears need for a period of very conservative marketing of cattle that is not likely to materialize at this juncture. Receipts of cattle at Chicago for the week total 50,500 head, the largest run since last January and 17,000 more than the week previous, while six western markets have had 115,000 or 18,000 more than last week. The increase in supply has consisted largely of low-grade and short-fed steers and it is on such classes that killers have trained their guns with greater effect in lowering prices. Too many half-fat, common steers have been dumped into the market hopper and a process of price readjustment has been going on, a stagnant feeder market assisting killers in this program. Steers selling below $8.25 are closing largely twenty-five cents lower than a week ago, and there has been quite a showing of $7.65 to $8.15 stuff in the crop, while killers bought several strings of light, cold bloods down to $7.15 to $7.50. Good, handy and medium-weight bullocks selling from $8.40 to $8.65 are hardly more than ten to fifteen cents lower for the week, and choice-finished beeves from yearlings up are fairly steady, but yearling stuff not in condition has been subject to the usual handicap and big 1,400 to 1,600-pound steers have not done a very creditable performance, a lot of such weights that had been fed with expectancy of topping the market have had to take $8.75 to $8.85. A lot of very good to choice 1,150 to 1,350-pound bullocks have sold up to $8.60 to $9.00 and have had the call, while the week's market toppers at $9.20 were ripe, 1,370 to 1,408-pound beeves.

At the week-end conditions are much less favorable for a good run of cattle getting good action here next week than was the case a week ago, but buyers are counting on muddy feed lots prompting feeders to unload freely and looking for a run of 25,000 cattle here on Monday. Should that many arrive declines are certain for acute beef scarcity in evidence a week ago, has been relieved and buyers are under less pressure. Trade sentiment as concerns the market outlook for the next thirty to sixty days is not pronounced either way, but at present nearly everyone concurs in the opinion that half-fat stuff ought to be held back at this juncture. Lack of knowledge regarding the number of heavy steers in feeders' hands renders the trade cautious in making forecasts, but there are doubtless plenty of these overweight steers which are now running into a season of unpopularity and the policy of feeders boarding such bullocks longer is seriously questioned. Two years ago when feeding conditions were much the same as at present, but when the best beeves that ever walked sold at $6.25 to $6.40, feeders nursed the market by the questionable policy of holding fat cattle back, the result being a deluge late in April and May, accompanied by sharp price breaks.

One factor in the decline on the lower-priced grades of steers this week has been lack of country competition, the stocker and feeder market having been near the point of stagnation since last Monday. Ffteen to twenty-fivecent declines have been registered and a clearance on that basis has been impossible, about 1,500 head going over unsold in yard dealers' hands. Various factors have been operative at the lower levels. A large part of Ohio, Indiana and Pennsylvania are still out of the buying end of this trade, prices had worked to a point last week that looked top heavy and the threat of free meats seems to have exerted a deterring influence on investors, while a week of excessive moisture over the greater area supplied with stock and feeding cattle from this market has put feed lots and stock fields in no position to receive cattle and operated materially against a free outlet at this time when it is a little too early to turn stock on pasture. Less than a half dozen loads of steers went to the country from this market this week costing $8.00 to $8.25, a spread of $7.60 to $7.90 having taken most of the good to choice 8,50 to 1,100-pound feeders and $7.75 having stopped toward week-end most anything in the steer yearling line, although fancy yearlings are still quotable up to $8.00. Most of the fair to good stockers sold at $7.00 to $7.50, very few below $6.85 and best feeding heifers $6.50 to $6.75, while plain and common light-stock heifers ranged down around $6.00.

Butcher stock values have not followed the decline in steers, due to a short week's supply of such goods. In fact most of the stuff of medium to best class is selling ten to fifteen cents higher than a week ago and bulls above canner and stocker class are fifteen to twenty-five cents higner, with bolognas and fat bulls as well as good to best grades of cows and heifers hitting the best levels of the season. Canners and plain low-grade dairy cows have not shared in the improvement and close dull and week. High prices recorded in this branch of the trade this week have included heavy bologna bulls up to $6.75, stiller-fed bulls to $7.40, a few prime to fancy corn-fed bulls of handy weight at $7.65 to $8.00, choice heavy-fed cows in carload lots to $7.85, individuals as high as $8.25 and a sweet load of 591-pound Texas-bred, Kansas-fed Hereford heifers, coming yearlings, at $9.00. The last-named sale was the sensation of the week's trade, but the load was in a class alone, most of the baby beef fed heifers of strictly choice class selling on a good market from $8.00 to $8.40 and bulk of the good to very good fat heifers at $7.25 to $7.85. Calves close



The illustration shown herewith is that of Baron Sultan the noted Scotch bull at the head of the Short-horn herd of A. E. Shoebotham, Fairbury, Neb. Baron Sultan was sired by the great and only Whitehall Sultan and out of Athene of Riverdale by Imp. Victoria's Count. Choice young bulls by Baron Sultan are being offered by Mr. Shoebotham. Kindly notice the advertisement on page 46 and write for prices at once. Kindly mention The Homestead.

Auctions to the right of us,
Auctions to the left of us,
Everybody—pondered.
But out to Russell's Sale they came,
And nobody—wondered.

Agents Wanted for Our New Book, "America's Greatest Disaster,"

HORRORS of **cyclone, storm, fire** and **flood;** thrilling experiences, miraculous escapes from death, awful happenings; memorial edition; will sell like wild fire; everybody wants it; highest commission; credit given; outfit free on receipt of only 10 cents for postage; big money; be first in the field. Write at once. **UNIVERSAL SUPPLY CO., 30 W. Lake Street, Chicago, Illinois.**

100 Cards--10c Biggest bargain out. Art, Seashore, Lovers, Holiday, Birthday, Flowers, Pretty **Girls, Fun** and Flirtation Cards, some in 6 colors, **gold,** etc. Sure to please. U. S. Card Co., Chicago.

with a fifty to seventy-five-cent bulge in prices over Tuesday, low day of the week and twenty-five to fifty cents higher than a week ago, but promise to make work to Tuesday's basis when $8.25 to $8.50 bought most of the good to choice veals, in event receipts early next week reach the volume anticipated. Subsequent to the heavy spring limidation of dairy calves, a lightly supplied and high level market for the summer and fall months is indicated as very few calves of other than dairy herd breeding are expected to show up at market. Quotations:

BEEF STEERS.

Prime steers, 1,300-1,700 lbs.	$9.00@9.20
Choice steers, 1,250-1,500 lbs.	8.85@9.10
Choice steers, 1,110-1,250 lbs.	8.80@9.00
Good to prime yearlings	8.50@8.85
Medium to good yearlings	8.10@8.50
Common to fair yearlings	7.40@8.00
Good steers, 1,100-1,400 lbs.	8.35@8.60
Good steers, 900-1,200 lbs.	8.00@8.50
Fair steers, 900-1,200 lbs.	7.75@8.00
Medium steers, 850-950 lbs.	7.50@7.65
Inerior steers, 850-900 lbs.	7.00@7.35
Common steers, 800-850 lbs.	6.75@7.00

FEEDERS.

Selected, 900-1,150 lbs	$7.85@8.25
Fair to good	7.30@7.65
Common to fair	6.90@7.30
Feeding heifers, com to good	6.10@6.60

STOCKERS.

Selected, 500-700 lbs	$7.65@8.00
Fair to good	7.00@7.50
Common to fair	6.35@7.00
Stock heifers, com. to good	5.75@6.35

BEEF COWS.

Choice to prime feed cows	$7.10@8.15
Good to choice cows	6.35@7.00
Fair to good cows	5.65@6.35
Com. to fair butcher cows	5.00@5.60

CANNERS AND CUTTERS.

Good to ch. heavy cutters	$4.60@5.00
Fair to good light cutters	4.40@4.60
Fair to good canners	4.00@4.35
Poor to fair canners	3.75@4.00
Old, thin, weak shells	3.25@3.75

HEIFERS.

Choice to prime heifers	$7.85@8.65
Good to choice heifers	7.25@7.75
Fair to good heifers	6.65@7.25
Common to fair heifers	5.50@6.65

BULLS.

Good to choice bolongnas	$6.50@6.75
Light and medium bolognas	6.15@6.45
Canner and poor light	5.00@5.85
Fair to good butchers	6.75@7.10
Choice to fancy beef	7.10@7.75

VEAL CALVES.

Good to choice vealers	$8.75@9.25
Fair to good light vealers	8.25@8.75
Good to choice stock calves	7.00@7.85
Inferior to fair hvy. calves	4.75@6.00
Good to ch. heavy calves	6.25@6.75

HOGS.

Chicago receipts of hogs this week will foot up the smallest total of the year and other markets have also been modestely supplied, the five-day total at eleven points being 69,000 less than like period last week and 47,000 less than a year ago. Storms, sharply cutting down supplies at Omaha and Sioux City toward the week-end. Curtailed shipping demand is exerting a depressing influence on the light-hog market, eastern shippers having taken but little more than half as many hogs at Chicago this week as lost, and a somewhat larger quota of light weights than recently, is showing up. The sharply deduced supply, however, has lifted the whole list to higher levels than a week ago. Top lights sold Friday at $9.37, against $9.30 a week ago, while heavy butcher and packing grades show fifteen to twenty-five-cent advances and a general average price of $9.22 is eighteen cents higher than a week ago. Country advices do not indicate any material swelling of supply and packers seem to regard money invested in $9.00 hogs as well spent. There is money in putting weight on hogs at current cost of corn. Commissionmen report that a percentage of their customers will hold their hogs until corn planting is over, but this does not necessarily imply that more lard is running around the country on four legs than will be needed. It is an undisputable fact that Omaha and Sioux City territory, which disgorged a big hog crop last spring, cannot repeat this year. Only rough, common packers are now selling below $9.00 and $9.15 to $9.30 took 85 per cent of yesterday's supply.

SHEEP.

The week in the live mutton trade closed with fat classes selling about twenty-five cents higher than a week ago, but steady to fifteen cents lower than the high time here at mid-week when everything on the list, excepting wool lambs, made the highest levels of the season. High spots touched during the week included wooled Colorado-Mexican lambs up to $9.35, shorn lambs to $8.30, wooled aged sheep of fancy class to $7.90, shorn sheep to $7.00 and wooled yearlings to $8.50. At week-end eastern dressed mutton markets are in droopy condition, following a high-flying trade during the fore part of the week that was responsible for bulge in hoof prices. This evidence of the consuming public balking at high prices demanded for the dressed products is not to be ignored in forecasting trade events, but supplies of sheep and lambs that will be available for the next thirty days are in strong hands and if reports coming from Colorado as to the number of lambs now left in feeders' hands are to be relied on, a repetition of last year's high level late April and early May market at that juncture would not be surprising. Buyers are now showing preference for shorn goods over wool skins at the prices and as the season ages this prefence will become more pronounced. Much of the supply is now coming minus fleeces, and holders of stock now lacking finish will doubtless find the shearing operation profitable. Free wool threats are dulling demand for feeders and that end of the trade is quiet and no better than steady with a week ago. Quotations.

WOOLED STOCK.

Lambs, good to prime	$8.85@9.25
Lambs, fair to good	8.50@8.85
Lambs, common to fair	8.00@8.50
Lams, culls	6.50@8.00
Lambs, feeders and shearers	6.00@8.00
Yearlings, fair to choice	7.50@8.50
Wethers, good to prime	7.00@7.60
Wethers, plain to good	6.35@7.00
Ewes, fair to best	6.15@7.50
Ewes, culls	4.25@5.25
Bucks	5.00@6.00

SHORN STOCK.

Lambs, good to choice	$7.85@8.25
Lambs, fair to good	7.50@7.85
Yearlings, fair to choice	6.75@7.50
Wethers, fair to choice	6.25@6.85
Ewes, fair to choice	6.00@6.75
Bucks, fair to choice	4.50@5.25

NEXT WEEK AT SOUTH OMAHA

IN THE SALE PAVILION

We're going to the sale.

TUESDAY, APRIL 22, 1913,

GEO. ALLEN & SONS

WILL SELL 55

SCOTCH PEDIGREED SHORT-HORNS

PROBABLY the grandest collection of Scotch pedigree cows ever offered in a Western sale, or in fact anywhere will be placed at your disposal at this time. One of the very best collections of herd-heading bulls sold in recent years will be presented. Those in search of the extra select will find them in this offering. If really interested wire us immediately for the catalog. Plan to be on hand sale day. Duncan and Callahan, Auctioneers.

GEO. ALLEN & SONS,
LEXINGTON, NEBRASKA

FIRME & STONE'S

ANNUAL SALE OF

PEDIGREED SHORT-HORNS

Will be held in sale pavilion in

HASTINGS, NEB., WEDNESDAY, APRIL 23

40 CHOICE SELECTIONS, 15 BULLS AND 25 FEMALES ARE LISTED FOR THIS SALE.

THEY consist of some of the very best of our herds, and will constitute one of the very best offerings that we have ever sold. They are of good pedigree and possess great individual excellence. The blood of Champion Goods, Improved Goods, Victor Archer and a few other sires of note will be found in this offering. They are grown in the best possible manner and are of much worth to the stockman in need of good breeding material. Three daughters of the great breeding cow, Virginia Dare, will be included. They are as great a collection from one dam as will be sold this season. Improved Goods, is one of the great bulls of the day. Daughters by him, or cows bred to him will be good investments. Roan Goods is the sire of some of the young things. He is a son of Best of Goods. Stockmen that would appreciate the opportunity offered of making selections from stock that are of very high order should attend this sale. The catalog will be mailed to all that apply, mentioning The Homestead. Address at once, either

R. C. FIRME, Hastings, Neb., or A. A. STONE, Hansen, Neb.
Col. H. S. Duncan, Auct.

TOO LATE TO CLASSIFY.

HERD-HEADING POLAND CHINA BOARS.

FROM one of the oldest established herds in Nebraska. These boars are the equal of anything ever bred on my farm. They are sired by Jumbo Jim, a grandson of the 1,000-lb. Jumbo. Also a few by Blue Valley Wonder by Blue Valley Quality. Write me at once, want to tell you of these boars. Address
F. R. BARRETT CADAMS, NEBRASKA

RED POLLED CATTLE.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
FRANK J. CLOUSS. Barnum, Iowa.

WILES' RED POLLS

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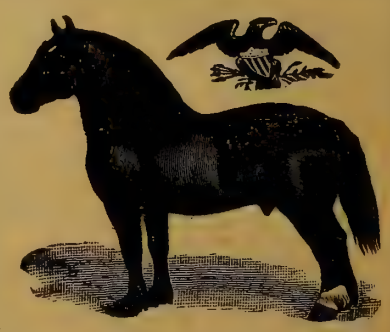

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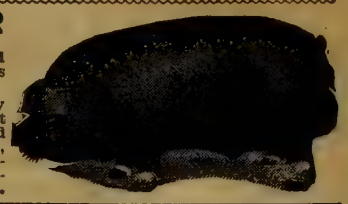

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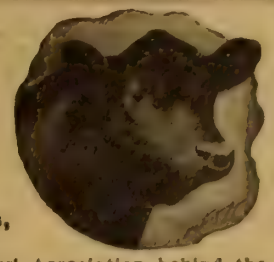

Union Stock Yards, South Omaha, Neb.
Tuesday, April 29, 1913
75 Aberdeen Angus Bulls 75

Union Stock Yards, Chicago, Ill.
Thursday, May 1st, 1913
95 Aberdeen Angus Bulls 95

170 Aberdeen Augus Bulls to be Sold at South Omaha and Chicago in one Week. Matured Bulls, Two Year Olds and Yearlings

PARTIES in market for bulls should bear in mind they have the leading breeders and the American Aberdeen Angus Breeders' Association behind the bulls that will be offered. There are listed Blackbirds, Trojans, Ericas, Prides, Queen Mothers, Barbaras and top-notch representatives of all the other leading families.

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Prospective bull buyers can attend these Association sales with absolute confidence, they will be dealt with squarely and get good value for their money. Everything will be sold, if it does not bring more than a beef price. The Association's paramount object is to create central bull trading points, regardless of expense. **The breeders who have consigned these bulls are prepared to sell them at farmers' prices.**

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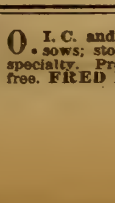

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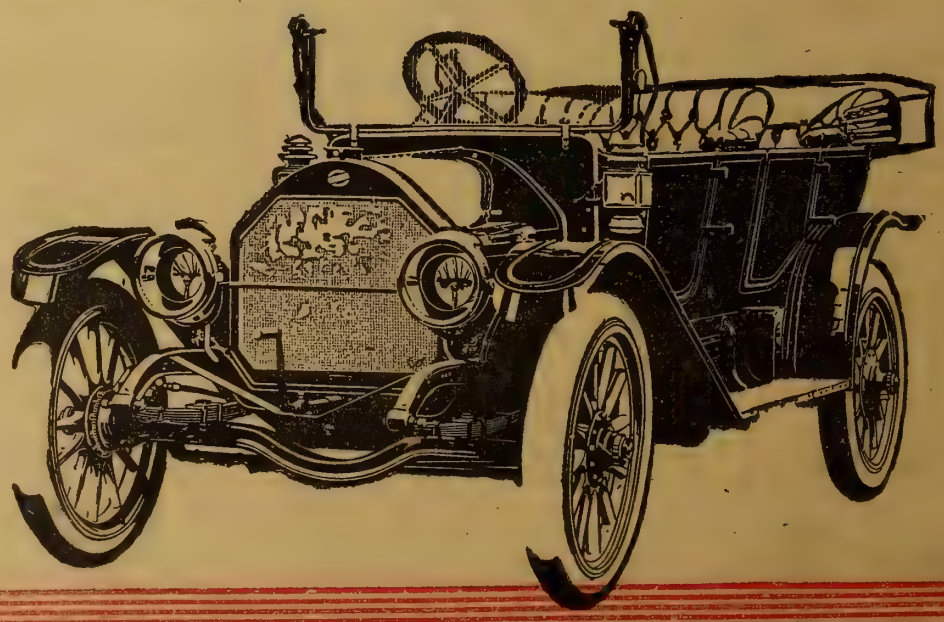

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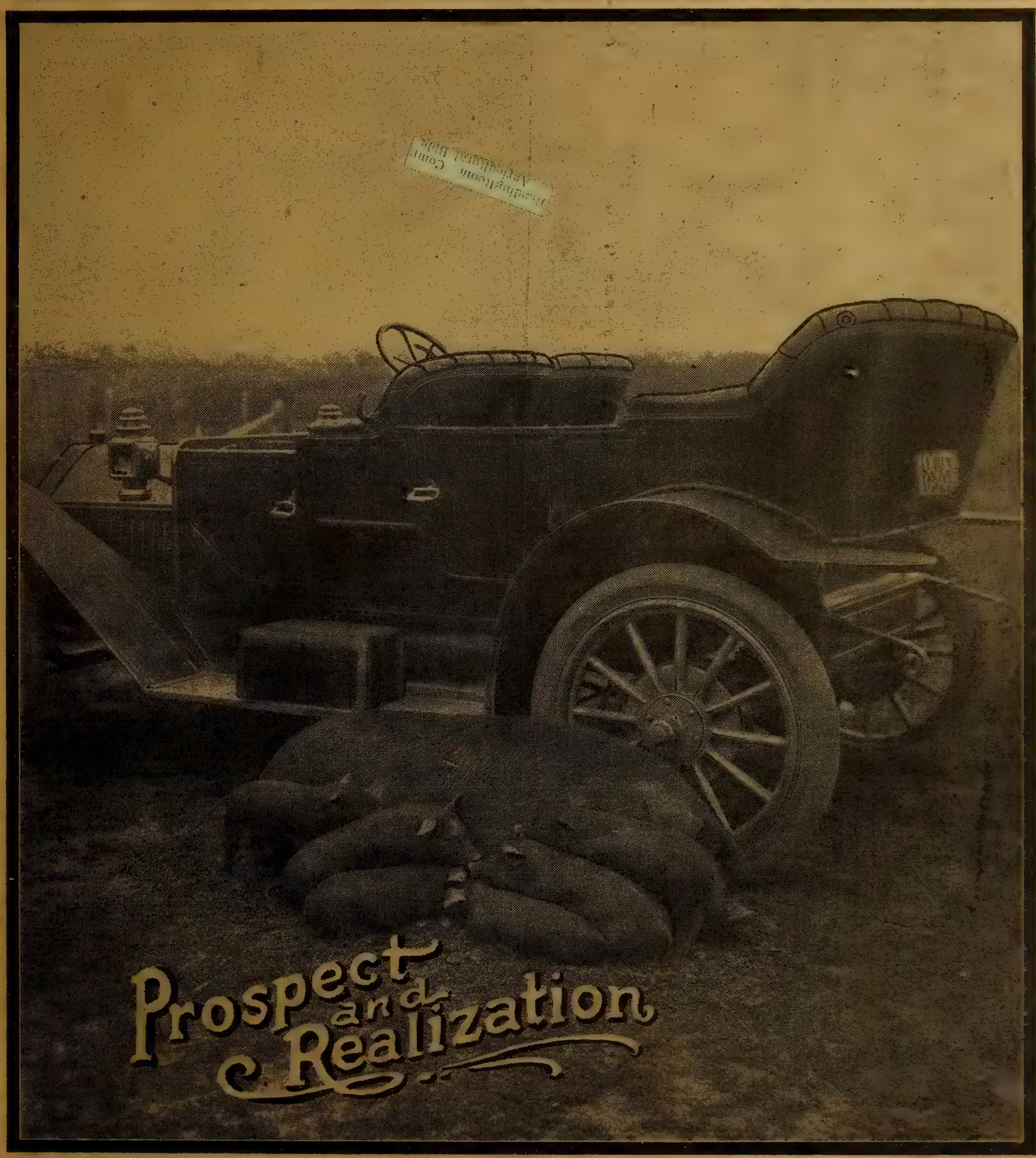
READING ROOM
FILE No. 58

The Iowa Homestead

VOL. LVIII. NO. 17 DES MOINES, IOWA, APRIL 24, 1913. WHOLE NO. 2898



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Be sure you get I H C repairs and not imitations. The I H C repair part is made the same as the original on your machine except that it is strengthened if found necessary.

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The best is always the cheapest in binder twine as in machines.

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No. 1 Washer Complete (belt free).....	$49.75	$57.50	$63.50
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NOTE—In case you wish the outfit without truck, just deduct from above prices $5.00 if engine is 1¾ h. p. size, or $6.00 if engine is 2¼ h. p. size. (321)

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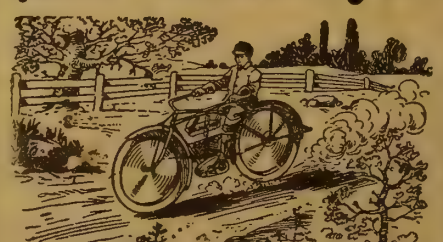


YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., - 515 Popular Building - Des Moines, Iowa

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 24, 1913.

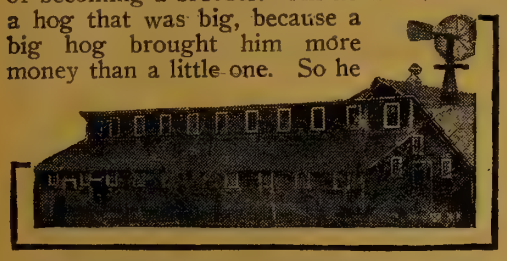
A Man of Original Ideas Who Makes Them Win Out

Success That Follows Persistence

Rewards That Came to a Hog Raiser Who Knew What He Wanted and Persisted Until He Produced It---Original Thought and Action That Won Out in Spite of Fads and Fashions.

STUDYING methods of swine breeding furnishes illustrations of successes gained by persistent work along a single line. A case in point is that of Peter Mouw, a farmer of Sioux county, Iowa. Mr. Mouw was a genuine wooden-shoe Hollander who came to America when quite a young lad with nothing to his credit but indomitable energy and determination to "get on." And he did. He landed forty years ago. Four years later found him settled on raw prairie—now the improved home farm on which his real life work has been done. Three more years and he bought a Poland China hog, thus beginning a career that has made him famous over the entire hog-raising world.

Peter had no lofty ambitions in the way of becoming a breeder. All he wanted was a hog that was big, because a big hog brought him more money than a little one. So he



HOG HOUSE AND FARROWING PENS.

bought big hogs, raised big hogs, and sold big hogs. He did this year in and year out. If some enthusiast tried to sell Peter a hog that carried blood of a popular strain, he would be told, "I want him bigger." If a show-ring favorite came under his observation, Peter was apt to repeat, "I want him bigger." At a period when breeders' fancy ran wild on fine points, style, tippy ears and fine white markings, Peter stood out alone, demanding all the time, "I want him bigger."

In 1892 Peter took some of his big ones to the Iowa State Fair and carried home with him a fine blue ribbon on Molly King, and that same old Molly King became the ancestor of a line of breeding that has since attained to the greatest distinction. In the show ring jealous competitors frequently contested the ages of animals Peter drove into the competitions because he "got him bigger" than they had been able to do. But that did not stop Peter. He went back the next year and won first, second and third, and since that the herd has been in the running at nearly every fair.

How did he do it? He started right. He

SUBSTANTIAL AND COMFORTABLE FARM HOME.

did not believe in breeding hogs of a kind he did not want in order to get those of the kind he did want. He thought the way to raise big hogs was to use as breeding animals those that were big.

About the time Peter began to learn lessons in hog raising, Poland China men were quite evenly divided as to the predominancy of merit of the Corwins and

BIG NEW CATTLE BARN AND SILO.

Tecumseh strains. The Corwins which came under his observation were large and deep bodied, with a mellowness that goes with quick growth and early maturing qualities. Prominent among the sires of the time were Jumbo and Old Doctor. The seven gilts which constituted Mr. Mouw's first start were the immediate descendants of those two animals, and both carried strong infusions of Corwin blood. A few years later the Corwin strain, through the influence of Black U. S. and Ideal Lady, began to deteriorate in size and then Mr. Mouw turned to the Tecumsehs, which have been prominent factors in his later operations. His first hog of that strain was Grand Chief Jr., a grandson of Chief Tecumseh 2d. Later came Chief Standard, of almost the same lines of blood, and still later other sires of strong Tecumseh breed-

PAVILION WHERE HOG SALES ARE HELD.

ing. Only those who are conversant with Poland China history will appreciate the wisdom of the selections made.

But blood is not all, and no other man in the same line of work has so well demonstrated that feed and care produce wonderful results. There is never any lack of feed on the Mouw farm. Like the family larder, the cribs and granaries are at all times filled to overflowing with the things that go to make flesh and develop animal form. And it is mostly that which has been grown on the farm. The Mouw farm is a factory which turns its raw materials into a finished product of a quality that brings the highest market price. Native thrift and simplicity rule on the Mouw farm. While a liberal system of feeding is employed, everything is practical and without frill or fad.

The notable point in the career of Mr. Mouw is the fact that by adhering strictly to his own idea of the form and characteristics of a profitable hog, by following his own plans of growing and breeding, and with no promotion other than persistence of effort, he has made his ideal hog one that has grown into public favor to al-

(Continued on page 21.)

HERD OF REGISTERED HEREFORD CATTLE THAT HELP TO MAKE THE FARM A PROFIT-MAKING INSTITUTION.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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A LASTING WOOD.

Various means are being used by the timber interests of the South to bring to the attention of the farmers of the corn belt the remarkable lasting qualities of certain southern woods, particularly cypress. Timber of this character is found in commercial quantities in ten or eleven southern states of which there is standing at the present time approximately 20,000,000,000 feet.

The bald cypress is a slow-growing tree, requiring about two centuries for it to reach sufficient size to use commercially. According to a report made by timber experts of the United States Department of Agriculture, William L. Hall and H. Maxwell, heart cypress shingles have been known to last for a period of 250 years. Many buildings constructed of this wood more than a century ago are yet in a good state of preservation. According to these experts cypress is well adapted to a very large number of uses. As the wood contains but little resin it affords a good surface for paint and it finishes well either in natural color or when stained. Because of this its use in the construction of doors, window frames, transoms, ceilings, etc., is rapidly increasing. As it shrinks and swells but little it furnishes a most satisfactory wood to use in kitchens and pantries. As a siding material for houses it practically wears out before it decays. Cypress timber has been thoroughly tried out in farm uses and it has been found admirably adapted to the purpose when used as material in water troughs, stable floors, gates, fence posts and in addition for timbers that come in contact with the ground.

As we see it the more extended use of this southern timber will do much to stop the rapid depreciation of wooden structures. This in itself has been a heavy burden to corn-belt farmers in the past because of the short life of much of the wood that has been used. To reshingle a farm building every eight or ten years means an outlay which is not offset by any corresponding revenue. It is a mistake to think that "lumber is lumber" and that woods are all alike except that some boards contain more knots than others. As a matter of fact all lumber is not alike, even when covered with paint.

If the report of these government experts is to be relied on the increased use of cypress means a much greater degree of permanence in the future as applied to farm structures than has been the case in the past. In constructing sun parlors, as siding for homes, for interior use, for porches as well as for outbuildings, stable floors, tanks and a great variety of other uses this southern wood meets the most urgent need of the times due to its widely adaptable character and almost everlasting qualities.

THE SILO AND PROFITS IN BEEF-MAKING.

According to results obtained at the Indiana Experiment Station the addition of corn silage once daily to a ration of shelled corn, cottonseed meal, and clover hay, reduced the cost $1.83 for each hundred pounds of gain and increased the total profit $8.85 per steer.

The addition of corn silage twice daily to a ration of shelled corn, cottonseed meal, and clover hay, reduced the cost $3.17 for each hundred pounds of gain and increased total profits $11.19 per steer.

The substitution of corn silage for clover hay in a ration of shelled corn, cottonseed meal and clover hay reduced the cost $4.35 for each hundred pounds of gain and increased the profits $17.97 per steer.

The more nearly corn silage replaces the clover hay in the ration, the cheaper was the gain and the greater the profit.

Corn silage produced a very rapid finish on the cattle.

The silage used in this trial contained an unusually high per cent of dry matter and was, judging from previous experience, more efficient for fattening cattle than silage containing a higher per cent of moisture.

A ration of shelled corn, cottonseed meal, oat straw, and corn silage (twice daily) proved to be as efficient for fattening cattle as a ration of shelled corn cottonseed meal, clover hay and corn silage (twice daily).

CO-OPERATION IN INSECT DESTRUCTION.

The Illinois Experiment Station calls attention to the fact that the time has arrived when farmers must act together, or at least, act alike, if they are expected to control the depredations of certain insects. The individual acting alone cannot always protect his crops unless his neighbors also will do the right thing at the right time.

The corn-root aphis is given by Prof. S. A. Forbes as an excellent illustration of this principle. This pest may be virtually exterminated in any field in which it has been previously injurious by persistence in the use of measures to be taken in the early spring. Corn may be planted on this ground and kept practically free from early and immediate injury from it. If, however, the root louse is allowed to live and multiply in other fields near by it is sure to migrate on the wing into the field previously free from it, thus undoing, in a large measure, all that the careful man may have done to protect himself.

This insect produces many generations in the same season and a considerable number of each generation after the first are likely to develop wings, hence the necessity of more united efforts to keep the insect absolutely in check.

In those territories infested with root lice Professor Forbes recommends plowing to a depth of from six to seven inches. Repeated disking afterwards results in breaking up the nests of the root lice and the young ants with which they are so closely associated. The result of this procedure means that the eggs of the root aphis are so scattered that the ants cannot bring them together again and so much the better if, before planting, the ground can be packed down with a roller. The earlier the plowing can be done the more effectually will the insect be controlled.

Attention is called to the fact that thorough, deep preparation of the ground for corn will, if kept up year after year, not only exterminate the root louse, but many other corn insects will be gradually destroyed. One field near Galesburg, Illinois, that was plowed deeply and thoroughly disked afterwards yielded twenty-eight bushels per acre more than a similar tract that was prepared in the ordinary way. From this it will be seen that the methods of shallow culture in the spring that were formerly in vogue might have to be discarded and deeper plowing introduced in order to save the crop from the devastations of certain types of insects. Where whole communities are infested Professor Forbes is of the opinion that the results will more than justify farmers in adopting a uniform deep tillage system—deep tillage in this instance referring wholly to the work put on the ground previous to planting time.

SWINE IN THE UNITED STATES.

According to the estimates of the bureau of statistics of the United States Department of Agriculture there were 61,178,000 head of hogs in the United States on the first of January, 1913. The states which lead in numbers are Iowa 8,720,000, Illinois 4,314,000, Missouri 4,978,000, Nebraska 3,798,000, Indiana 3,709,000, Ohio 3,399,000, Kansas 2,611,000, Texas 2,493,000, Wisconsin 2,030,000. No other state reached the two million figure. Rhode Island stands at the foot of the list with 14,000 head. The total shows a decrease of 6½ per cent from the figures of the previous year.

The total valuation is put at $603,109,000 and the average price per head $9.86. There is rather wide variation on this point in the different states. Curiously enough the highest price, $14.50, is in Rhode Island, where fewest hogs are kept. Florida stands at the foot of the list, with a valuation of $5.90 per head. Iowa hogs are valued at $12 per head, or a total of $104,640,000. The total values given for other principal hog-raising states are Illinois $45,308,000, Nebraska $43,297,000, Ohio $36,709,000, Indiana $36,348,000, Missouri $34,740,000, Kansas $27,154,000, Wisconsin $23,548,000, Minnesota $21,615,000, Texas $20,941,000.

The average age at which hogs are marketed the country over is eleven months. In Louisiana it extends to fifteen months. In the principal hog-raising states the market age ranges from nine to ten months.

During the year ending January 1, 1913, the number of hogs marketed at the seven principal stock yards markets was 20,293,924 head, or more than one-half million less than in the preceding year. It is said that the loss from disease during 1912 amounted to $60,000,000.

The hogs of the United States consumed 724,000,000 bushels of corn, or 26.8 per cent of the entire crop.

LIVE STOCK FARMING THE NEED

The day of strictly intensive farming being "a long ways off in this country," President Waters, of the Kansas State Agricultural College, believes that the start toward adding to the farm income is found in live stock farming, with mixed farming following in close companionship.

Addressing the state bankers' association, at Topeka, a few days ago President Waters gave these striking figures in showing the comparative value of grain farming and live stock farming:

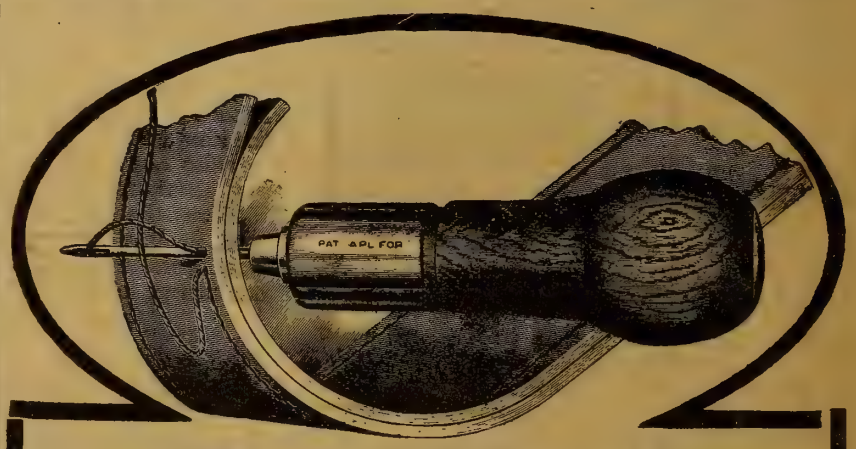
Live stock farming is more profitable than grain and hay farming in every section of the United States. The United States census shows that the average income from grain and hay farms for a ten-year period was $7.72. The return an acre on live stock farming was $11.42, or 48 per cent more. The one system depletes the soil, the other builds it up. The future of western Kansas in particular must be based upon mixed farming with its principal element, live stock, supported by kaffir, milo, the sorghums and the silo.

The farmer is more interested, just at present, added President Waters, in the details of marketing what he produces than in producing more. It is costing too much to get the farm produce to the consumer, so that the imminent need is for wiping out the waste and cutting down the intermediate profits of the middleman, so that the farmer will receive more for what he produces. The fact that an address so purely agricultural in its character was delivered before the state bankers' association shows the interest which the banker of today is taking in the problems and welfare of the farmer.

ESTABLISHING CHOLERA-PROOF AREAS.

The Kansas Agricultural college proposes to demonstrate that hog cholera can absolutely be stamped out. It is the intention to select 200 farms in a given territory and treat every individual of the hog population. Agreement must be entered into by every farmer in this area to have his hogs tested whether they seem to him to need it or not and he must pay for the material used in testing. These farms will cover a strip about seven miles long and four miles wide and the hope is that even the work of one season will demonstrate beyond any possibility of doubt that hog cholera can be prevented.

It would be rather interesting if every state in the corn belt could join Kansas and carry on a similar line of investigation at the same time. While



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The Speedy Stitcher is provided with a set of diamond pointed grooved needles including a special needle for tapping shoes. It also contains a large bobbin from which the thread feeds, all of which are enclosed inside the handle out of the way. This Awl has a tension which enables you to tighten your stitch. These valuable features you will not find in any $1.00 Awl.

It's FREE to Those Who Are Prompt.

I will give one of these excellent Speedy Stitchers absolutely free to any one who will send me $1.00 for one year's subscription to The Homestead during the month of April. This offer will positively be withdrawn on May 1, 1913. Kindly use the coupon below and be sure to send your order in today before you forget it.

JAMES M. PIERCE - DES MOINES, IOWA.

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Date 1913

James M. Pierce, Pub. Homestead, Des Moines, Iowa:
Dear Sir:—Enclosed find $1 for one year's subscription to The Homestead. For my promptness send me postpaid, free of charge your Speedy Stitcher.

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no up-to-date man questions the efficacy of good serum, yet the wisdom of using it indiscriminately, particularly in connection with virus, is in many cases questioned. If cholera can be kept out of a strip four miles wide and seven miles long it ought to be possible to enlarge that area until it includes a state and to further enlarge it until it embodies the entire hog-raising territory.

In this day and age when co-operation is the watchword of the hour it would seem advisable to have a little co-operative effort on the part of states in order that an important principle like this might be settled one way or the other for all time by the concerted action of state scientists.

DANGER LURKS IN WATER.

Farmers traveling on trains who find themselves inconvenienced through failure to provide themselves with individual drinking cups may occasionally feel as though the law prohibiting the common drinking cup were freakish. But the fact is that there is great danger of spreading infectious, filthy and even deadly diseases by the indiscriminate use of common drinking vessels. Scientists have proved that the spread of contagious diseases is often due to nothing more nor less than the public drinking cup and the public towel, so that any law which conserves public health, by removing the agency of disease, is commendable. It is sometimes a nuisance to remember to provide one's self with an individual cup before leaving home and it is sometimes impossible to secure the necessary cup away from home, but it is better thus than to be a party to inflicting diseases on innocent persons.

The state board of health of Kansas has recently gone a step further and is investigating the ice with which the water in public drinking receptacles is cooled. As a result, an order has been issued providing that on and after the first of July all railroads in that state must put water tanks in their cars in such fashion that the ice does not touch the water. Tests have been made, showing that only one-third of the water furnished in the average passenger coach is fit to drink, one-third being possibly dangerous and one-third absolutely dangerous to human health. We are indebted to a subscriber for sending us the following information in regard to these railroad tests:

The chemists of the state university took seventy-eight samples of the water on the trains at Kansas City and Wichita. Of those twenty-seven were found to be sufficiently clean for drinking purposes while the rest were found to contain enough bacteria to be classed as unfit and more than twenty of the samples were found to contain typhoid fever germs and other germs in sufficient quantities to be set down as absolutely dangerous.

In one case water taken from the sand springs at Abilene, the finest water in Kansas, was found to be dangerous for human consumption by the time it reached Kansas City. Then came the investigation of t e ice and the tests showed that the careless handling of the ice, dirt blowing on it, dirt on the gloves or tongs used by the handlers and on station platforms, caused the contamination.

The good work thus begun in Kansas should be carried on in other states. Ice is a ready carrier of filth and dirt and its unsanitary handling may cost human life. It is far better to be inconvenienced and even to go thirsty for a time than to pollute one's system with germs of disease which may cost much money if not human life itself. Farmers who go far from home should be thoughtful enough to provide themselves with drinking cups. Kansas proposes to take care of those who thus take care of themselves.

THE WEATHER BUREAU.

The summary dismissal of Professor Moore, chief of the weather bureau for the past fifteen years, should not blind the eyes of the farmers to the fact that under his chieftancy the bureau has become of inestimable value to the man whose welfare and prosperity are dependent in such large measure upon the weather. Daily weather bulletins, frost and storm warnings and a systematic forecast service place the farmer in close touch with the nearest weather forecaster and make it possible for him to take advantage of market conditions created by the weather or to prepare for a sudden change which, were it to catch him unawares, would cost him heavily. A recent bulletin of the agricultural department sums the matter up in this manner:

Over 5,000,000 farmers receive the weather forecasts daily over the rural telephone, the forecasts being telegraphed by the weather bureau to the central offices and thence distributed free to all patrons of the line, most companies being anxious to furnish this service as an inducement to new subscribers. If a farmer has a telephone and does not receive the daily weather forecasts, he should call up central and find out why.

Warnings of the destructive floods that occurred in Ohio, beginning March 25th were telegraphed from the weather bureau office at Columbus to all the principal cities and towns in the districts threatened from twelve to twenty hours in advance. The river and flood service of the weather bureau covers every river in the United States where floods, dangerous to life and property, are liable to occur. Persons residing in threatened districts should put themselves in communication with the nearest weather bureau station.

During April and May the weather bureau will put itself in close touch with all the principal commercial fruit-growing regions of the country where damaging frosts are liable to occur and issue advance warnings of temperatures liable to prove destructive to fruit so that, wherever practicable, the various devices for orchard heating and smudging may be put in operation. In some regions, not adjacent to regular weather bureau stations, men are sent out to take station in the vicinity in order to insure the effectual distribution of the warnings. Fruit growers everywhere should avail themselves of this service.

The weather bureau and its allied organizations in the department of agriculture have grown so scientific and thorough that the question of chieftancy is far from being material. The service will be continued unimpaired, regardless of personnel. In fact, the recent change of administration has shown that the various departments of the federal government are now in such smooth running order that it makes but little difference when the heads are removed or shifted. Under the civil service laws the men who really do the work in the weather bureau, as elsewhere in most governmental departments, are retained regardless of politics.

STEALING FOR A LIVING.

Little pigs generally act as if this were a free-for-all world and to them self-interest is the only interest that is worth while. Their policy in many instances is not favorable to their owner's welfare and where many pigs are raised systematic efforts must be made to keep the pigs from one litter from robbing another litter of their just rights.

In some strains prolificacy is a very marked characteristic and it frequently happens that a sow will farrow ten, eleven or twelve good, strong pigs. Our observation is that when the litter is too large robbing is generally first contracted by the pigs from such litters and we know more than one successful breeder who never allows an old sow to raise more than ten pigs and a gilt more than eight. One starving little pig can often corrupt the morals of his litter mates and to prevent this it is often a very good practice to do away with the runts there and then.

In some cases it will pay and pay well to keep a sow and her pigs in a little yard by themselves for two or three weeks. When the udder is uniform so that all the pigs in a litter are coming along in good shape there is very little danger of developing vices after that age because the pigs know their dam and even when turned loose they seldom become robbers. If a few are allowed to steal the practice soon becomes indiscriminate and a very uneven bunch of shoats will result.

We realize fully the importance of getting sows out to grass in order to cut down the labor of attending to them and in order that they may get for themselves nature's best food, but nevertheless, as the suckling period only lasts ten or twelve weeks it will pay and pay well to watch the development of this robbing vice and to prevent it in every instance. Many are the evils that come from the habit and among these will be found the development of sore mouths, noses and heads among the little fellows which is due to the warfare that is carried on. In the second place the sows' udders are apt to become irritated and the next trouble that will show up will be that the sow will naturally wean the pigs. This will occur even though her own litter may not be more than two or three weeks old and this means possibly that her pigs will not be worth raising.

Woven wire fence is not expensive and it takes only a small amount of labor to restrain those litters that show signs of developing this vice. One very successful swine breeder of our acquaintance keeps all his little pigs in a yard for a period of three weeks, after which they are allowed to run at large, though the sows are restrained until weaning time. He has found that each little pig soon learns the location of its own pen and they will seldom, if ever, wander into strange quarters. While there is the disadvantage in this plan of not allowing the sow access to grass, yet if plenty of milk-making foods are used and a part of these are fed in the form of slop, the loss of the grass may not amount to so much after all.

CROP CONSERVATION IMPORTANT.

In an address recently delivered before the Western Grain Dealers' Association, Prof. A. M. TenEyck, of the Iowa Agricultural College, pointed out the necessity of placing relatively more emphasis on sensibly conserving a crop after it is produced and on marketing it than on that of production. As the secretary of agriculture says: "The farmer's problem is not limited to production, we must promote productivity; but fully as important if not more important are the questions of marketing and distributing and living."

A real conservation principle may be complied with, according to Professor TenEyck, by adopting better methods of handling and storing grain on the farm. Much grain is wasted in quantity and unnecessarily injured in quality by improper or careless handling after harvesting. The farmer who is a good producer is too often a poor handler of the crop after it is grown. Sometimes his methods of handling the crop from the field to the elevator are not only careless, but show absolute neglect. For instance in a part of our grain growing country we have observed the custom which the farmers practice almost uniformly of leaving the grain in the field in the shock until they are ready to thresh. While the climate of this area is generally favorable to such a method of handling the grain, it is not always so and some seasons the grain is very badly injured by excessive rains before it reaches the thresher. If farmers would adopt the method of stacking the grain in well-made stacks as soon as it is dry enough, they would in a series of seasons make a good investment by this extra labor, yet the old custom continues.

The majority of farmers, however, know how to handle their crop, but are prevented by unfavorable weather or by insufficient and inefficient labor, or other conditions which they cannot overcome. Also, the grain dealer is in part at fault. The neglect of the crop, especially as regards quality, is encouraged by him because he usually gives too little consideration to the point of quality in grain, in fixing the purchase price.

Pure yellow and pure white corn are generally quoted at one to three cents higher price per bushel on the Chicago market than corn of mixed color, yet the grain buyer often pays only one price at the elevator, the price of mixed corn, thus giving no inducement to the farmer to keep his corn pure bred.

"Community seed" is the next step forward in crop improvement, according to this scientist. There is no standard or authorized variety of any crop which is accepted and generally grown by farmers in one locality or neighborhood. The present condition is unsatisfactory and should be changed. In fact, there is no reasonable excuse for the present condition. Let the farmers organize and adopt or recommend for planting certain varieties of corn and small grain such as are shown to be adapted to the local conditions and let the grain dealers co-operate by paying a slightly advanced price for pure grain of these varieties which are adopted or recommended. If any community will put such a plan into operation it will not take long to establish the growing of preferred varieties in such community. The grain dealer should make it to the advantage of the farmer to seed corn of pure color and small grain of high grade by paying a higher price for such grain, and advertise the fact.

Grain dealers and many others are prone to give the farmers a great deal of free advice. Such advice does not amount to much unless it is backed by dollars. What we need today is example and practice. Secretary Houston says again, "We are clutter d up with knowledge, we must get out and set it to work on the farm."

SLOPPING HOGS ON PASTURE.

While it is possible to find men who have obtained satisfactory results in hog raising in feeding dry feed only, yet the average man believes that he can make more rapid and cheaper gains if he uses a little slop. A pretty well-defined notion exists that one good meal of slop a day tends to aid in the digestion of all other foods consumed and this may be due to the fact that in consuming slop the hog is obliged to take more water into the system than would otherwise be the case. An Illinois subscriber who believes in the practice of using slop describes his method of feeding it in the following communication:

When large and small hogs are running together, how to slop them so that each one will get its share is a problem that often confronts the owner. As slopping is commonly done a man is about knocked over by the sows and pigs and the big, greedy animals gobble the food down before the rest get a chance at it. This is neither pleasant for the feeder nor satisfactory to the hogs, except to the few lucky ones that capture most of the prize. Some way of slopping should be devised whereby the feeder will not be molested, and whereby the big and small alike will get their share.

One of the most satisfactory methods of slopping I have ever used or seen used, calls for a space about one rod wide and two or three rods long, fenced off for this purpose. This is divided into two parts, one division being used for the sows, the other for small pigs. Each is fitted with a gate, which should be large and swing easy, in order that the hogs may pass through it in large number without too much crowding. Across the gate posts of the part the pigs are to use a board should be nailed, high enough to let the pigs pass through it, but not high enough for the sows.

With such an arrangement the slopping can be easily and satisfactorily done. The feeder can pass into the lot, close the gate and fill the troughs without the sows scrambling all around him. When the trough is full the gate is opened and the sows are let in together. Under such circumstances both large and small animals get an equal chance at the feed, provided the trough is of reasonable length, whereas when the slop is turned in pailful by pailful while the animals crowd around it is always the big ones that get the feed.

The little pigs are quick to discover that they have a place of their own to eat, fitted out with troughs to suit their size and capacity, and they will rush there when the meal time comes in preference to being crowded and squeezed and pushed back by their mothers. It may, at first, be necessary to drive a few pigs into the yard, but the knowledge never fails to spread quickly or to become fixed. There is probably no way in which the sows and pigs can be slopped more satisfactorily to all concerned than by these separate inclosures.

In conclusion I wish to state that for every hundredweight of small pig, from ten to fifteen pounds of liquid should be mixed with the feed every day. Either water or milk may constitute the bulk of the liquid, but if milk is used less other feed is necessary than if water is the dilutant. As the pig becomes older less liquid is needed with the feed. His digestive system develops in strength, and his absorptive powers become greater. The content of his body changes, there being ever more dry matter and less water present. For these reasons he requires less liquid. A mature hog probably requires only two to four pounds of water per hundredweight per day.

To this good advice a word might be added in regard to the necessity of using some kind of flooring where the troughs are located. A concrete feeding floor is possibly the most ideal and where many hogs are raised the expense involved in constructing such a floor is a justifiable one. However, a very good feeding ground can be made either by the use of gravel or cinders, providing the surface is well rounded up in the first place to afford good drainage. Drainage, however, is not enough to prevent the contamination of troughs in the absence of some sort of surfacing material.

Put three horses on the so-called "two-horse disk," and four horses on the "three-horse disk." You'll do better work, more of it in a day, and be treating your horses more humane.

Farm Furrows
TURNED BY A PRACTICAL FARMER

Try putting some sheep on the rough, untillable land, and watch it pay you immense dividends from the start.

Most farms could be made much neater in appearance and considerable value added to their buildings and fences by the use of the paint brush about this time of the year. How about your own farm?

Have things all ship-shape around the poultry yard; so the hens will be bringing in the profits from their eggs while you are making the field crops pay.

I like to have plenty of rough feed to carry the stock through until grass is good. The most trying time on stock is now here, and the better the feed the better the stock stand it.

These are the days when the unwise farmer damages his meadow lands by pasturing, crossing them with heavy loads, especially when the wagon is narrow tired, and allowing the washes to cut great ditches in them, carrying away his surface and best soil.

Scrubby brush about the pasture-lands shade the grass and kill it out, when they should be cut and hauled into some damaging ditch somewhere about the farm.

Have an eye for the small fruit. It is easily tended to and harvested, and by careful handling at canning time, it will greatly assist in cutting down the living expenses. It is more conducive to good health, too, than so much greasy meats, gravies, etc.

You must help the hog lift by giving him good care and feed, if he is to be a mortgage lifter.

Notice the effects of fall plowing, done by you or some of the neighbors last autumn. Since it works up easier, forms a more ideal seed bed for any and all kinds of planting, is easier kept free of weeds, and will prove of great value in the conservation of soil moisture, you surely will be in favor of trying fall plowing again this fall.

The buying of a single piece of $25 machinery may aid you $100 worth in the production of your crop.

We put an old door knob in the turkey nest when taking the egg from her nest. She is very sensitive about having all of her eggs taken away and none returned, and is very apt to seek out another location for a nest if one persists in robbing it without leaving anything resembling an egg there. If you risk good eggs for nest-eggs, the crows are almost sure to get them.

Cobs make manure unhandy to handle. Have a barrel in front of the stalls to toss the cobs in at feed time.

One good reason for continuing to feed the dairy cows a small quantity of grains and roughages after they can turn to pasture is that the animals' teeth get sore (or rather, their gums), and by supplying the solider feeds the teeth will be kept in better condition for chewing and grazing the grass.

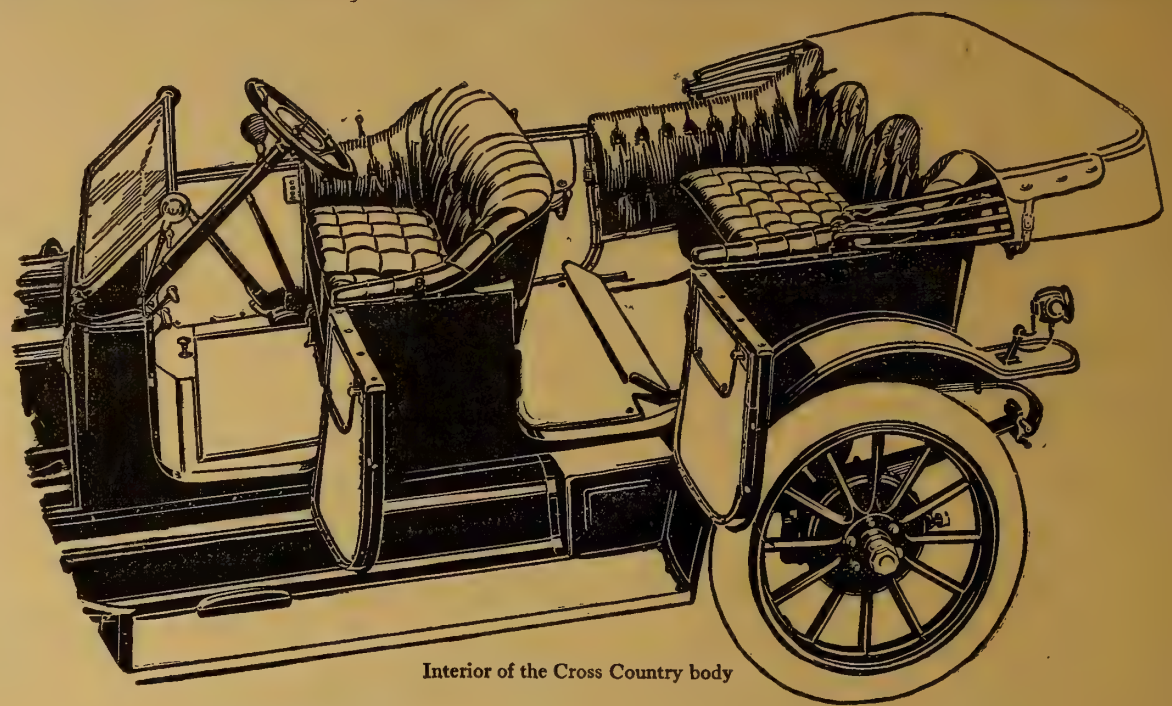
The failure or success of many farmers depends very much on whether they always are grumbling at their hard "luck," or whether they prefix the letter "P" to it and tack their faith to that word—"Pluck!"

Hook up the team when the summer evening is rainy and stormy, and go after the school children. It is not only dangerous for them to be out in an electrical storm, but it is most disagreeable, especially for the girls, to trudge home through the mud and wet grass.

"Book farming" is O. K. only when actual experience backs up the theoretical conclusions of the methods advocated.

A pair of pure-bred pigs at $50 when six months old, looks high priced, but did you ever notice that there always someone to buy just such stock?

Step into This Car and you will know Real Comfort



Interior of the Cross Country body

THERE is something rare and inviting about the comfort of the Cross Country that once it is experienced you will never quite forget. You enter through wide doors—20½ inches—that open fully, stepping easily from a running board that is clear.

The broad, carpet-covered foot rest in the tonneau is in just the right position for thorough relaxation. You sink down into the deep upholstery and lean back to find the pitch just right for perfect ease. The steady, deliberate action of the springs gives to one that pleasurable sense of modulated motion undisturbed by any jar. The forward seats are just the right height and the steering pillar may be adjusted at any angle to suit the comfort of the operator.

The hands rest comfortably on the steering wheel and the foot accelerator is so conveniently located and shaped that pressure may be applied with any part of the foot, always avoiding a cramped position.

You must experience the feel of the Cross Country wheel. It's a delight. It turns without a single vibrating jar. Your arms don't tire, your legs don't cramp.

To drive this car is exhilarating. Press the button with your foot. With hardly an audible sound the motor starts. A single movement of the lever—you touch the throttle and it's away.

Drive the car for ten minutes and you will grin in spite of yourself through rare delight.

Interior of Cross Country forward compartment

A beautiful four-color reproduction of the Cross Country, from an oil painting by R. Phillip Brainard, is ready for mailing. See the Cross Country by all means at any Jeffery branch or dealer's display room, but send for the picture anyway.

The Thomas B. Jeffery Company
Main Office and Works, Kenosha, Wisconsin
Branches: Boston, Chicago, Milwaukee, New York, Philadelphia, San Francisco

Rambler Motor Cars

CURRENT EVENTS

PRESIDENT WILSON has been successful in his first clash with congress. He has been supported by the lower house in his demands for a gradual reduction of the tariff on sugar, while the upper house has practically consented to abide by his free wool and ultimate free-sugar propositions. The president's plan is not for an immediate removal of all duty upon sugar, which Congressman Underwood, the democratic leader of the house, admits "would put the domestic planter out of business," but for a gradual reduction for the next three years, with an entire removal of all duty in 1916. By this plan the president believes that the consumer will be able to buy his sugar cheaper each year, while the change will not be so sudden and revolutionary as to drive the sugar planter out of business, three years' time being given him in which to devote his land to other crops and his capital to other industries. On free wool, as soon as congress can pass the necessary bill, the president is pretty thoroughly agreed and it begins to look as though both houses of congress would be guided by what he wishes. The president's visit to congress, his delivery of his tariff message in person and his frequent consultation with prominent leaders have resulted in a working agreement which bids fair to enact the democratic tariff program without much loss of time or break in party ranks. The present session of congress will be protracted and there will probably be many bitter disputes over the various tariff schedules, but the outlook is for the success of President Wilson's tariff plans practically as a whole.

PERSISTENT efforts to put cattle and sheep on the free list, to cut the duty on swine and otherwise to alter the ways and means committee tariff-revision bill have been defeated by the democratic caucus of the house. The effort to put cattle on the free list precipitated the longest and most strenuous discussion of the caucus. Cattle and sheep now are dutiable at 10 per cent and swine at $1.50 per head. Led by one of the new democratic members from Pennsylvania an effort was made to amend the committee's bill (the one which meets with the approval of President Wilson and which has been worked over for some months past), but the effort was futile. Representative Baker, of California, Representative Russell, of Missouri, and others urged against free cattle, declaring that it would destroy the cattle-raising industry in their states. Representatives Kinkead, of New Jersey, and Curley, of Massachusetts, contended free cattle would mean a broader field of supply for the independent packers as against the so-called trust. Representative Curley declared that the United States might soon cease to be an exporter of food. He said the Argentine republic with a population of only 9,000,000 as against 92,000,000 in the United States, exported more than five times as much beef and meat products as the United States and that tariff protection in America could only benefit the "trust." Representative Garner, of Texas, a member of the ways and means committee, said cattle last year raised a tariff revenue of $1,200,000, that the rate had been so adjusted in this bill that it would raise $500,000 the first year. If the cattle were transferred to the free list, he added, the rest of the tariff would have to be adjusted to meet the loss of revenue. After a prolonged discussion the free cattle amendment was defeated by a vote of 122 to seventy-three.

WILLIS L. MOORE, chief of the weather bureau since 1895, has been summarily dismissed by President Wilson on the charge of having used his office and influence unduly in an effort to secure appointment as secretary of agriculture in the president's cabinet. Professor Moore had filed his resignation, to take effect July 31st, and President Wilson had accepted it, but on receipt of evidence bearing on the charges made against him, President Wilson withdrew his acceptance of the Moore resignation and dismissed him from the service. It is claimed that Professor Moore sent weather bureau officials traveling over the country, ostensibly on official business, but in reality to lobby for his appointment to the cabinet, and that he spent large sums of government money in printing and sending out literature designed to influence support in his behalf for the cabinet position. The house committee on expenditures in the agricultural department has been planning for some time to investigate conditions in the weather bureau, but because of the press of other matters has not reached it yet. It is highly probable that the Moore disclosures will bring the matter to a head and that an investigation will now be made which will be a sweeping one.

UNEASY lies the head that wears a crown, runs the old adage, the truth of which has been repeatedly proven. Within the past month two European monarchs have been the victims, King George of Greece losing his life and King Alfonso of Spain having a narrow escape. The latter was riding on the streets of Barcelona when the assassin seized his horse's bridle and prepared to shoot point-blank at the king. With quick presence of mind Alfonso sank the spurs into his horse, which jumped suddenly, so that the shot went wild. Two more shots were fired before the assassin was overcome by the king's guards. There is no monarch in Europe, with the possible exception of the czar of Russia, whose life has been more frequently attempted than Alfonso of Spain. On the day of his wedding, as he and his bride were driving to the palace from the church, a bomb was thrown at him, hidden in a bouquet of flowers, the explosion resulting in the death of a servant and ten of the spectators, while one of the horses of the royal carriage was blown to pieces. A half dozen times altogether the king's life has been attempted, so that he has known but little peace during his reign. In addition to all this trouble, the second son of the king is deaf and dumb, so that the royal family has its full share of troubles, even more than the average poor family.

ONE of the greatest labor strikes in history is now in progress in Belgium. Belgium has a very reprehensible system in vogue by which the number of votes to which a man is entitled is dependent upon his age and wealth. Thus, every citizen over twenty-five years old has one vote; every citizen over thirty-five years old, with one or more children and paying $1 or more in house tax, has two votes, as has also every citizen over twenty-five years of age who owns at least $400 worth of real estate; every citizen who is an office holder, or an ex-officio member of some board, or who owns a larger amount of property, is entitled to three votes, the maximum number allowed any citizen. At the last general election the number of voters was 1,700,000, of which 995,000 had one vote, 395,000 two votes and 310,000 three votes. The present strike was caused by the socialist and industrial labor elements which hope by stopping almost every industry in the country to compel the government to grant them universal manhood suffrage, which means only one vote for every man. Altogether between 300,000 and 400,000 men are out on strike, affecting all the great industries of the nation. It is the first time that a labor strike has been used for purely political purposes. There is no question of hours or of wages, but merely the right of the poor man to have as much of a voice in running the country as the rich man.

Don't allow the hogs to sleep in or around the stable stalls—unless you want fleas in the barn.

The Best Beverage under the Sun—

Drink Coca-Cola

A welcome addition to any party—any time—any place.

Sparkling with life and wholesomeness.

Delicious
Refreshing
Thirst-Quenching

Demand the Genuine—Refuse Substitutes.

At Soda Fountains or Carbonated in Bottles.

1-A

THE COCA-COLA COMPANY, ATLANTA, GA.

Whenever you see an Arrow think of Coca-Cola.

NEW LAWS FOR IOWA FARMERS

A Lengthy Session of the Legislature Passes a Large Number of Laws of Direct Interest to the Farmer—Roads, Drainage, Public Schools, State Fair and Equally Important Subjects Occupy Lawmakers' Attention

THE Iowa legislature which adjourned Saturday was in session a little over three months and accomplished a vast amount of work. It is doubtful if any session of recent years has been confronted by more big problems than faced the members of the Thirty-fifth general assembly when they met at the state house on January 13th. Some of these problems have not been solved, but all have been discussed pro and con. Some of the things to which the various political parties pledged themselves in their platforms have not been enacted into laws. But many reforms, which the people were practically a unit in demanding, have been brought about and, for the most part, the legislators have gone about their duty in a conscientious and patriotic spirit.

Before getting down to the list of achievements in which the farmer takes a personally direct interest it is well to recount briefly a few of the big things which affect every voter in the state, whether he live in the country or in the city.

First: The legislature passed a presidential preferential law, giving to Iowa the same right to vote directly for presidential delegates as was enjoyed last year by Massachusetts, California and other states, but which was denied to Iowa, although the people were almost a unit in demanding the privilege of the party leaders.

Second: The legislature passed the Oregon senatorial law, providing for legislative candidates declaring, in advance of election, who they will support for United States senator in the event they are elected. The fact that the necessary number of states have ratified the federal constitutional amendment, so that hereafter all senators will be elected directly by the people, makes the new Iowa law unnecessary, but the legislature met the situation patriotically before it knew that its action would not be needed.

Third: For the first time in history a legislature has gone on record favoring woman suffrage, both houses passing the bill proposing to give women the right of the ballot. Should the next legislature take similar action, the matter will then be voted upon by the male electors of the state, after which, if the proposition carries, Iowa will be enrolled among the woman suffrage states.

Fourth: Another constitutional amendment was proposed, that of the initiative and the referendum. If the next legislature and the people at the subsequent general election decide in a similar manner the legislature will have power to fix the percentage of voters demanded to initiate or to refer legislation. This percentage must be fixed between twelve and twenty-two per cent to initiate a change and between ten and twenty per cent to refer matters passed by the legislature.

All these things affect the welfare and prosperity of the state as a whole, without regard to the vocation or the avocation of its citizens. They are big matters, met in a big way, and by adopting them Iowa shows itself entitled to remain in the vanguard of the really progressive states.

There are other big matters directly appealing to the farmer, because they touch his life intimately and will be met by him in his daily work and contact with other farmers. Those laws which thus have a special appeal and significance to the farmer will be found outlined herewith as briefly as possible, yet at sufficient length to give the real working of the new statutes.

INTEREST centers in the road legislation which, while not so far-reaching as might have been wished, still is an advance over former statutes. The main bill passed was the one creating a state highway commission of three members, appointed by Governor Clarke as follows: Dean A. Marston, of the state college of agriculture at Ames, H. C. Beard, of Mt. Ayr, and John Holden, of Scranton, Greene county. In addition to the creation of this state commission the main features of the new law are as follows: It provides for the classification of roads; the county roads, of a mileage not less than ten nor more than 15 per cent of the whole, "to be the main traveled roads of the county and must connect the market places of the county as well as connect with the county roads in adjoining counties."

The law places in the hands of the supervisors power to appoint a county engineer and select the roads for improvement, the surveys and reports of each division to be submitted to the highway commission for its approval before the work is ordered; all culvert and bridge work estimated to cost more than $300 to be advertised and let by contract (unless the bids are rejected when it may be let privately or done by day labor); all bridge or culvert contracts in excess of $2,000 to be approved by the state highway commission. The state highway commission is to have the power to investigate conditions in any county "and should it appear that any officer upon whom duties are by this act imposed has violated such duty, said commission shall report such investigation to the attorney-general who shall take such steps as are deemed advisable by him to correct the same." Another law diverts 8 per cent of the automobile license fees for maintenance of the state highway commission.

SCHOOL laws were passed which can hardly fail to advance the educational interests of the state. Several important changes in school administration were made. One law provides that the state superintendent of public instruction shall be appointed by the governor, instead of elected by the people. Another law provides that the county superintendent of schools, instead of being elected for two years by the people, shall be elected for three years by representatives of the various school corporations of the county who shall meet the first Tuesday in April for this purpose, it not being necessary for the county superintendent to be a resident of the county in which he is elected. Another law provides that normal training courses (with particular attention being paid to agriculture and domestic science) may be established in any Iowa high school which meets the requirements of the department of public instruction, each school so designated to receive aid from the state to the amount of $750 annually. For this purpose the legislature made an appropriation of $100,000 for the first year, with $125,000 a year provided thereafter. Still another law provides state aid to consolidated schools having suitable grounds and necessary equipment for teaching agriculture, home economics, manual training, or other industrial and vocational subjects, as may be approved by the department of public instruction. The sum of $30,000 was set aside for the first year, and $50,000 for each succeeding year for a period of four years. Districts maintaining two rooms will receive $250 toward equipment, and $200 annually. Those maintaining three rooms, $350 toward equipment and $500 annually; four rooms or more $500 toward equipment and $750 annually. Another law requires the teaching of elementary agriculture, domestic science and manual training in the public schools after January 1, 1915. Another new law gives to school boards power to buy additional grounds for the purpose of providing playgrounds. On petition of 20 per cent of the property owners in a district the question of buying grounds shall be submitted at a regular election. When people have voted and a tax is ordered directors are required to proceed and purchase grounds. Teachers' salaries are the subject of another school law, minimum pay being established. A teacher who has a third grade certificate will receive from $32.50 to $38.50 per month, according to her grade. A second grade certificate, 75 to 85 per cent grade, will receive $41.25 to $48.40 and a first grade certificate $51.00 to $60.00 per month. It is a misdemeanor for any school board hereafter to hire school teachers at any less rate of salary. Altogether, on the all-important educational question, it is doubtful if any legislature has ever enacted more or better school laws. The general assembly had the advantage of the findings of the Better Iowa Schools Commission, most of the recommendations of which were enacted into laws at Des Moines this session.

THE sum of $35,000 was appropriated for the establishment of a hog cholera serum laboratory at Ames, the director to be appointed by the president of the state agricultural college, the serum to be manufactured and distributed under the direction of the authorities of the college. The serum is to be sold at actual cost to swine breeders inside the state and none is to be sold outside the state unless the supply exceeds the demands from within the state. Two bills were introduced, one calling for a $25,000 appropriation; the other for $50,000; one providing for the establishment of the laboratory at Des Moines, the work to be under the supervision of the state veterinarian; the other placing the work at Ames under the direction of the state college authorities. The closing week of the session a compromise appropriation of $35,000 was agreed upon, the work to be carried on at Ames.

AFTER much discussion of the management of the state fair, the legislature completely exonerated the fair board and declared that it was conducting affairs in a business-like and altogether honorable manner. It then passed a law compelling the railroads of the state to grant round trip rates of one and one-half cents a mile (three cents for the round trip) for the fair, which will go a long ways toward making the attendance bigger in 1913 than ever before. The law makes it obligatory upon the railroads to grant these reduced rates to any annual fair the paid attendance of which is in excess of 75,000 so that it will apply as well to the Inter-state fair at Sioux City as to the state fair at Des Moines. In addition, an appropriation of $75,000 was made for a woman's building on the state fair grounds, an improvement that has long been needed. Future baby health contests will be held in the new building, which will be equipped with all conveniences for the comfort of women visitors and at the same time will show the wonderful progress of the sex in artistic matters as well as practical.

THE following rules for the operation of automobiles upon the public highway are of interest to farmers, because of the fact that so many thousands of motor cars in Iowa are farm owned:

THINGS TO DO.

Turn to the right when meeting other vehicles and in cities and towns keep on right hand side of street as near curb as possible.

Turn to the left when passing another vehicle.

Signal to traffic officer or vehicle following when about to turn or stop.

When turning to right, turn as near right hand corner as possible.

When turning to left, pass to right of corner and beyond center before turning.

In crossing highway turn to left so as to head in direction of traffic.

THINGS FORBIDDEN.

To stop vehicle unless right hand side is parallel with curb and as near thereto as possible.

To pass other vehicles at street intersections.

To operate without muffler.

To allow vehicles to be driven by person less than fifteen years old.

To leave vehicle standing within twenty feet of corner or fire hydrant.

To leave vehicle standing within fifteen feet of theater entrance.

To leave vehicle standing with engine running.

OTHER RULES.

Vehicles turning to right shall have right of way over traffic on street into which they are turning.

Vehicles turning to left shall give right of way to traffic on streets into which they are turning.

THE present law governing stallions and jacks has been revised so as to apply as follows: Stallions and jacks imported must have certificate of soundness and good health from veterinary department of state from which they come and railroads are forbidden to bring animals into the state without such certificate. (Exception is made of stallions and jacks brought to the state purely for exhibition purposes.) Provides for examination of stallions and jacks by duly registered and licensed veterinarian to determine whether animal has any communicable disease or is otherwise unsound. Veterinarians to make affidavit of condition of stallion or jack and said affidavit must be filed with state board of agriculture, which will issue permit without charge. On imported animals a temporary permit may be issued on certificate from veterinary department of another state, said permit good for thirty days until pedigree may be filed and local laws complied with. A fee of $1 is authorized annually as charge for state certificate for stallions and jacks. Blind stallions and jacks may be given certificate provided it is shown their blindness was not due to communicable disease.

IN THE matter of appropriations for the state agricultural college at Ames, the legislature was most generous, providing for a tax of one-half mill, in addition to an appropriation of $92,000 immediately available. The half-mill tax is to be expended as follows each year, beginning with 1914:

Additional support of collegiate departments	$125,000
Agricultural extension	48,000
Agricultural experiment station (Of this not more than $35,000 may be used for an additional experiment farm.)	57,000
Agricultural one year and two year noncollegiate courses	12,500
Trade school and engineering extension work	25,000
Engineering experiment station	5,000
Veterinary practitioners' course	5,000
Veterinary investigations	10,000
Repair and contingent fund	10,000
Two and four year courses in home economics for homemakers and teachers	20,000
Equipment of departments and buildings	40,000
Maintenance and improvement of public grounds	10,000
Enlargement of buildings and small additional buildings	10,000

A NEW weed law was passed, which provides for individual cutting of all noxious weeds. The law says that it shall be the duty of each owner, occupant or person in control of any land, whether it be in the country or in the city, to cut, burn or otherwise entirely destroy all noxious weeds at a time and in a manner to prevent them blooming or coming to maturity. Should this be neglected, the county board of supervisors is authorized to serve written notice of such failure upon the owner, occupant or person in control of the land and if, after thirty days' notice, the weeds are not cut the county will order the work done and the cost will be taxed up against the land as a special assessment.

FOR the purpose of promoting both the dairy cattle and the beef cattle industries in the state $7,500 was appropriated to the Iowa State Dairy Association and $7,500 to the Iowa Beef Cattle Breeders' Association to be expended for improving the quality of stock raised in this state and carrying on a propaganda to interest farmers generally in live stock possibilities. The money is to be expended under the direction of the officers of the associations, which are required to have 500 members each.

IT IS unlawful hereafter for any person to bring or cause to be brought into the state any apiary or honey bees infected with foul brood or any other infectious diseases or bee-destroying insects. No common carrier shall accept any colonies

(Continued on page 32.)

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

SALE OF STOCK IN CORPORATION—LIABILITY.

A Subscriber, Leigh, Neb.—An agent came into the neighborhood offering for sale shares of stock in a certain incorporated company, which was then and is now in operation and doing a comparatively good business. A bought one share of the stock from the agent and went about the neighborhood with him and introduced him to B, C, D, E and F, each one of whom bought one share of stock from the agent. In case the shares of stock should turn out to be worthless, can A be held responsible, and if so, to what extent?

Answer.—If A merely introduced the agent to the other parties, and made no false statements as to the shares of stock or their value, he cannot be held responsible, even though the shares should afterwards be found to be worthless.

LAME RENTING CONTRACT.

A Subscriber, Orient, Iowa.—(1) I rented a piece of land and agreed to a rent to the owner one-half of the corn raised in the field and cash rent for the hay land, and agreed to give the owner the fall feed. Nothing was said about the time of giving possession. When do I get possession? (2) A rented this land last year and the owner pastured stock on it after the first of March, during wet weather when the ground was muddy, which greatly injured the fields. Am I entitled to damages?

Answer.—(1) If the parties to the contract do not know when possession was to be given, it is rather difficult for the editor of this department to know. We should say, however, that, as the land, or part of it, was to be used for a corn crop, the first of March would be a reasonable time for the tenant to take possession—at any rate he should be given possession in time to prepare the ground for planting corn. (2) In view of the loose and uncertain manner of making the contract, it is doubtful whether or not you could recover damages by law, for pasturing the land.

TRANSFER OF PROPERTY—INHERITANCE TAX.

A Subscriber, Moravia, Iowa.—(1) Is the last inheritance tax law of Iowa in the code or in the supplement thereto and later acts? (2) A and B are husband and wife and own a small farm and wish to leave it to their children. They have made deeds of the land to their children; that is, a deed to each child for a certain portion of the land. These deeds have been signed and acknowledged by both A and B and delivered to another person to be given to the children upon the death of A and B. Is that legal and right? (3) Would the inheritance tax law apply in such a case?

Answer.—(1) The collateral inheritance tax law of Iowa now in force can be found in session laws of 1911, pages 50-64. (2) Deeds so made and delivered will accomplish the purpose desired. (3) In such a case the inheritance law does not apply; property which passes by deed or will to children is exempt from the inheritance tax.

AUTO AND BUGGY ACCIDENT—DAMAGES.

A Subscriber, Perkins, Iowa.—A and his wife were going to town with a horse and buggy when they met B driving an auto at a speed of about twenty miles an hour. A turned out when about to pass and so did B with the auto. A's horse became unmanageable with fright and suddenly turned in the road and upset the buggy throwing A and his wife out and injuring both of them. B is a careful auto driver, but was unable to stop his machine in time to avoid the accident. Can A recover damages from B?

Answer.—If the accident was caused by reason of the careless or negligent manner in which B was driving his auto at the time, or his failure to stop on A's signal, or his want of caution in passing the horse and buggy. A can recover damages from him for all injuries resulting from the accident; in other words, in a suit for damages, A would have to convince the court or jury that the injuries were caused by some fault of B.

IMPLIED CONTRACT FOR WAGES.

A Subscriber, Huxley, Iowa.—Without any contract or agreement whatever A entered B's premises and began to work at useful work. B saw A at work and made no objection to it. When A quit he demanded that B pay him fair wages for his work. Can A recover from B by law?

Answer.—The only legal ground upon which A could recover wages for his work would be a contract implied from the facts that B saw A at work, made no objection, and that the work was useful. It is barely possible that A could recover wages by law; but his case is very weak, and our opinion is that he could not recover. The facts stated do not seem sufficient to prove an implied contract.

Use It Every Day

Have a tractor on your farm that will shove your work right through, a tractor that will work with profit day and night. The

RUMELY GASPULL

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will go almost anywhere—power behind it—it pulls up to 6 bottoms in stubble—harrows, discs, hauls, bales and makes roads.

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My 1913 LEADER $54.50

All the brains and skill of the most expert workmen are combined with the highest grade materials money can buy, in turning out this Buggy. It's a job I'm proud of—and you'll be proud to own it. I'll stake my reputation on it and am ready to ship it anywhere on

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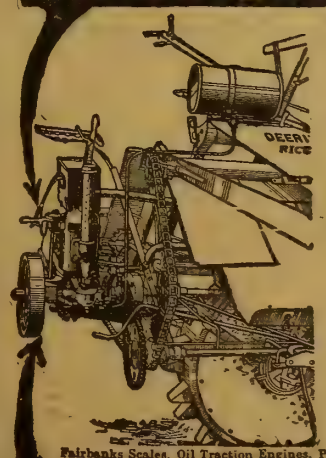

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EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.

REDS 75 cents per 15 or $4 per 100. Pen No.1 $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Fertile eggs and safe delivery guaranteed. J. B. HEISEL, - Grinnell, Iowa.

SINGLE COMB REDS

EGGS that will batch,at right prices,from my prize-winning,skin-deep Reds;the kind that pays; start today with this popular breed.Send for my free mating list. L.G.Johnson,Box H, Steamboat Rock, Ia.

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15; pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also F. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address E. L. DICKERSON, Ragan, Nebraska.

S. C. RHODE ISLAND REDS

RANGE of 300 full blood birds. Eggs $5 per 100. Express prepaid. Shipped in folding egg cases. No broken eggs. One exhibition pen, either comb. $2 per 15, laying hens, $1.50 each. Address F. O. MARTIN, - - FLOYD, IOWA

SINGLE COMB RHODE ISLAND REDS

4 Grand pens headed by 2d and 4th ckls. Dubuque; 1st and 4th ckls. Olewein; heavy laying strain; eggs $1.50 and $3 per 15. Send for mating list. Address C. E. Hayes, Box A, Lamont, Iowa.

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls.for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Rose Comb Rhode Island Red Eggs For Sale

I AM selling eggs from my two prize-winning pens at $2 per 15 eggs. My motto is "Good quality at reasonable price." J. R. Myatt, Manning, Iowa,

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa,

S. C. R. I. Reds Exclusively Choice breeding stock, prize-winning sort. Ckls., hens and eggs for sale. Now write for prices. W. A. Hasebrook, Bladen, Neb.

R. & S. C. R. I. RED EGGS for sale from 6 choice pens headed by show winners. When you buy here you get the best. Address O. A. Knerr, Beaver Crossing, Neb.

S. C. RHODE ISLAND RED Eggs $1.00 per sitting. Few pullets for sale. Sarah Lowe, Clarksville, Iowa.

ROSE COMB Rhode Island Reds that are Red. Eggs—pen 1, $2.00; pen 2, $1.50; Utility, $1 per 15. Address THE RED FARM, Luverne, Iowa.

Eggs for Hatching from single comb Rhode Island Reds. $1 per 15; $5, 100. Mrs. Anna N. Brodahl, R.1, Box 3, Wahoo, Neb.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

EGGS From a large, fine laying strain of S. C. R. I. Reds at $1.50 per 15. Address MRS. GEO. W. GODLOVE, Riverside, Ia.

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains, Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock,75c per 15, $4 per 100. Mrs. Charles Ilelz, Conrad. Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaran teed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. C. F. BATTELS, Indianola, Iowa.

Eggs for Hatching S. C.R.I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address George Hunt, Earlville, Iowa

S. C. R. I. RED EGGS Pen 1 $2 per 15; farm flock $1 per 15; $5 per hundred. Address Mrs. Sophia Rader, Laurel, Iowa.

S. C. Rhode Island Red EGGS FOR HATCHING, choice sitting, 15 for $1.50. Other eggs 100 $6. Mrs. Geo. Turpen, Jefferson, Iowa.

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1 per 15; $4 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

S. C. R. I. REDS Eggs 75 cents per setting, $4.00 per hundred. Address Mrs. A. O. Adkison, Oakland, Iowa.

TOP notch S. C. R. I. Reds. Two good matings. Eggs $1.00 and $1.50 per 15. Good range flock $4.00 per 100. W. E. Briggs, R. 2, Woodbine, Iowa.

S. C. R. I. RED Eggs from large, red, cup-winning stock, $5, 100; $1, 15; pen $2, 15. Address Mrs. Fred Miller, Adair, Iowa.

S. C. R. I. R. EGGS $1.00 per 15 and 75 cents per 15. From cockerel dark red, no smut, weight 8 lbs. Scores 92¾. Address W. I. PRICE, Ira, Iowa.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

R. C.R.I. Reds. Eggs from DeGraff strain, dark reds, low combs. Pen 1, $2 per 15; pen 2, $1 per 15. Frank B. Coldren, Clarksville, Ia.

Rose Comb R. I. Red eggs, 15, $1. 30, $1.85, 100, $5.00. Address J. Nissen, Meservey, Cerro Gordo County, Iowa.

Single Comb R. I. Red Eggs for Sale

15 for $1; 100 for $5. Address J. C. Porter, Ogden, Ia.

THOROUGHBRED R. C. R. I. Red eggs; pen 1, 15, $1.50; 30, $2.75; pen 2, 100, $4.75; 45, $2.50. Miss E. C. Powers, Osage, Iowa.

S. C. Rhode Island Red Eggs for hatching. Farm range, $1.50 for 15 or $8 for 100. Mrs. W. R. Watson, Oakland, Iowa.

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

EGGS—S.C., R. C.R.I. Red & Kellerstrass, Crystal White Orps., $1 per sitting. Prize-winning pens, $3 to $10 per sitting. Mrs. T. A. Gough, Bristow, Ia.

RHODE ISLAND REDS.

R. C. R. I. EGGS

STOCK all red to skin, big boned, low tail, red eyes; choice of flock of 400; eggs $1.50 per sitting, $8.00 per 100. Mrs. F. B. Dann, Dewitt, Iowa

Rose Comb Rhode Island Reds

EXCLUSIVELY.

EGGS FOR HATCHING

LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City.
Henry G. Walker - Iowa City, Iowa

Our Blood Red Strain S. C. R. I. Reds are those vigorous, big-boned, long-bodied, rich, even, glossy reds, with that marvelous winning quality. They were silver cup winners in every show entered the past season. Look up their record of blue ribbons won, not only in our hands, but in the hands of our customers. Eggs, Pen No. 1, $10; Pen No. 2, $5; Pen No. 3, $3; Pens 4, 5, 6 and 7, $2 per 15; $7 per 100. F. L. Reinhard & Son, Ottumwa, Iowa.

RHODE ISLAND REDS

SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

MORRILLVILLE POULTRY FARM

ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

SINGLE COMB RED EGGS

FROM prize matings, pen 1 or 2, $5 per 15; $9 per 30; pen 3 or 4, $3 per 15, $5 per 30; pen 5, $2 per 15; pen 6. $1 per 15, $5 per 100. If you want quality Reds that will please, order from this ad. or send for my mating list. L. G. Johnson, Box H, Steamboat Rock, Ia.

ROSE COMB R. I. REDS

TUTTLE and Bushman eggs. High scoring, prize winning, good laying. Pen 1, 15 eggs $5; 2, farm range, 15, $2; 50, $5; 100, $8. 20% additional eggs furnished on orders booked next 30 days. Write for circular today. W. W. Forbes, Box 441, Jefferson, Ia.

"Allendale" R. C. R. I. Reds

AT 1913 Burlington show,won 1st cockerel,1st pullet and 2d pen with only five birds exhibited. Mating list free. Eggs for sale. Honest Dealing guaranteed. Mrs. J. H. Allen, New Sharon, Ia.

S. C. Rhode Island Reds

Tompkins strain. Write for descriptive egg circular. Address
P. H. THIEL, Renwick, Humboldt County, Iowa.

S. C. R. I. REDS EXCLUSIVELY. EGGS from choice breeders at $1 to $5 per 15. Send for mating list. Address J. A. Holmes, Steamboat Rock, Iowa.

RoseCombReds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain, sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R.C. Rhode Island Red Eggs Exhibition and laying strain; 1st pen $5.00 per 15; 2d,$3; 3rd, $1.50. Fertility guaranteed. Red Poultry Farm, Randalia, Iowa.

R.C.RHODE ISLAND REDS

EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

S. C. R. I. Red Eggs from bred-to-lay strains, pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa,

S. C. R. I. REDS—Great layers of large brown eggs; 15,75c., 75, $2.50, Eggs guaranteed fresh. Address Mrs. Henry Queckborner, Chadwick, Ill.

S. C. R. I. RED EGGS from great laying strain that are red. $1 per 15; $5 per 100. Address J. E. LEWIS, Brayton, Iowa.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.50 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

EGGS from pure-blood, high-class S. C. Rhode Island Reds. 75 cents for 15; $4 for 100. Address Mrs. S. A. Spalti, Pleasantville, Iowa.

EGGS from thoroughbred Reds (either comb) 15, $1; 100, $6. Special pen $2.50 per 15. Laying hens, $1.50 each. Mrs. A. Laun, Riverdale Farm, Floyd, Ia.

For Sale R.C.R.I.Red eggs $1 per sitting of 15;$6 per 100. Good farm range. Nettie Amundson,R.1,Box 2.Soldier,Ia.

Eggs from Farm Range R. C. R. I. Reds 75c per 15; $4 per 100. Pen 1, $12 per 100; $2 per 15. Mrs. J. E. Brooker, Van Meter, Ia.

R. C.R.I. Reds; farm raised,laying strain. Pen scoring 91 or better 15, $3; pen No. 2, $2; range 15, $1; 100, $5. C. D. Jackson, R. 5, Grinnell, Iowa.

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

SINGLE Comb Rhode Island Reds exclusively. Fine breeding, vigorous farm-raised stock, eggs for hatching,15,$1; 100. $5. R. H. Ortman, Bancroft, Ia.

S. C. R. I. Reds Exclusively from prize-winners, $5 per 105, $1 per 17. Address I. C. WELCH, - BEDFORD, IOWA.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

S.C.R.I.RED EGGS $1.50 per 15, single setting only, from one choice pen, cock scores 91½. C. W. Kellogg, Rockwell City, Iowa.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

TERMS WHICH EVERY POULTRYMAN SHOULD UNDERSTAND.

To the Editor of The Homestead:

My wholesale egg buyers have given me the meaning of the following terms relating to the egg trade, the condition of eggs, etc., and it seems to me they are so important that farmers generally should know their meaning, so as to improve the quality of the eggs they send to market, for the price you receive is governed largely by little details, little defects in the eggs or in the handling and shipping, which are too often not looked after as carefully as they should be.

It is a truism that success in any business is the result of close attention to small details, and certainly it is so in the egg business, for while a good egg is very good, a bad one is very, very bad, and even a tolerably good egg is, after all, not very good. Perhaps no other article produced on farms and sold in stores is so easily injured in quality and decreases in market value as a shipment of eggs of unfavorable indications and that, too, although the quality of the eggs' contents might be good, despite appearances. The real value and the market value of a shipment of eggs might vary greatly because in no other commodity produced on farms is so much importance attached to appearances.

Farmers should therefore use especial care to see that eggs have an attractive appearance, and they should know what lessens their market value.

"Candling" is the process of testing eggs by holding them between the eye and a candle or other bright light, so as to determine the condition of their contents.

"Checks" are eggs which are cracked, but not leaking. These have a low market value.

"Leakers" are cracked eggs which have lost a part of their contents. These also have some market value if you ship to honest dealers, if too much of the eggs' contents is not wasted.

"Dirties" are eggs soiled with earth, droppings or the contents of broken eggs. My wholesalers tell me that not one egg-shipping farmer in a hundred seems to realize how dirty eggs decrease the market value of this product although the eggs may be fresh and their contents strictly good.

"Blood rings" are eggs in which blood has developed, extending to the period when the chick becomes visible.

"Floats, light," are eggs in which embryo development has proceeded to a point corresponding to about eighteen to twenty-four hours of normal incubation. They are not readily detected by the casual observer even when broken.

"Floats, heavy," are eggs in which the development has proceeded farther than in the case of light floats. When broken the yolk has a white, scummy appearance.

"Rots" are eggs absolutely unfit for food purposes.

"Spots" are eggs in which bacteria or a mold growth has developed locally and caused the formation of a lumpy adhesion on the inside of the shell.

"Watery eggs" are those in which the inner membane of the air cell is ruptured, allowing the air to escape into the contents of the eggs, giving it a watery or frothy appearance. My dealers tell me that the sound condition of this membrane just inside the shell of eggs is much more important than poultrymen realize.

"Weak eggs" are those in which, by reason of unfavorable conditions, or of age, the stiffness or viscosity of the egg is lessened, producing an egg which doesn't stand up well or whip into a firm froth.

"Case count" is a term used in egg buying where eggs are accepted simply on the basis of number, without regard to quality.

"Loss off" is a term used in buying where eggs are tested by candling before being accepted. The bad eggs, usually the "rots" and badly broken eggs, are rejected and no pay is received for them. All honest dealers prefer that poultrymen and farmers should candle eggs before shipping to market, and ship only those which prove to be good. Put your thumb and first finger around the egg, with the large end towards you, and look through the egg at a bright light.

"Seconds" is a term often used when eggs are bought on a graded basis to designate the second best grade.

"Firsts" are strictly fresh eggs of good quality, clean, of attractive appearance and of uniform color, size and shape. Large eggs are preferred, of course, but clean appearance and uniformity of size, color and shape is of more importance than large size.

"Flats" are the squares of strawboard placed between layers of eggs in the egg case.

It is the universal opinion of egg dealers and packing houses who put eggs in cold storage that if they are of poor quality when they come out of cold storage the farmers and poultrymen are to blame; that is, that eggs deteriorate much more in quality from the time they are laid until they are brought in and sold by farmers than they do after reaching the wholesalers' hands. After reaching the cold storage people they are handled promptly and in a scientific manner, and if good when they go into cold storage they come out in good condition.

I. H. Motes.

MISSING IT WITH POULTRY.

To the Editor of The Homestead:

One place where we make a mistake with poultry is in not growing just as much of the food we use as we can. There are poultrymen, some of them right out in the country, too, that buy a good share of what they feed their hens. Their grain, their vegetables, their milk, if they use any at all, all these things are bought and paid for at a good big price.

That takes off the profit, and takes it off fast. It brings the expense of producing eggs and poultry meat so

TELLS WHY CHICKS DIE

J. C. Reefer, the poultry expert, of 1630 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable Free books.

$7.55 Still Buys World's Champion 140-Egg Incubator

Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder, $4.85. Ordered together, $11.50. Freight Paid (E. of Rockies). No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time. Jim Rohan, Pres.

Belle City Incubator Co., Box 52, Racine, Wis.

Save Your Chicks

WE can help you. Send us names and addresses of ten (10) poultry friends and receive our revised 32-page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes poultry profits possible; gives care and feeding of chicks and turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE, postpaid, for the names. Write today. Address

F. K. REMEDY CO. 700 2d St. Arkansas City, Kan.

Approved by the Hens

Clark's Grain Sprouter gives the hens fresh, green food every day of the year. Made in sections of steel with insulated walls. Send for circular and price list. Address

J. D. Clark & Co., Des Moines, Iowa.

WYANDOTTES.

EGGS BABY CHICKS
WHITE WYANDOTTES
White Wing Poultry Farm, Perry, Iowa.
C 294

Silver Laced Wyandottes
I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson
Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address Indianola, Iowa.

Faha's Silver Wyandotte Eggs From five grand pens
Still have a few choice birds for sale. Send for catalog and mating list. Address
Frank Faha, Jr., Box 620, Dyersville, Iowa.

WHITE WYANDOTTE EGGS
$1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Ethel H. Shaw, R. 6, Newton, Iowa,

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, its free, John A. Johnson, R.2, Pilot Mound, Ia,

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15. $5.00 per 100. Mrs. W. F. Prather, Atlantic, Iowa.

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia,

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $2 for 15, $3.50 for 30, R.S.Tennyson,Clarksville, Ia.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble, Mrs.M.C.Humphrey,Derby,Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25;range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

EGGS from prize winning, good laying strain White Wyan., $1.00 per 15,$5.00 per 100. Address E. G. Pont, Atlantic, Iowa.

White Wyandotte Eggs 15 for $1. 100 for $4.
Address Mrs. T. W. Glass, Route 5,Sac City, Iowa.

WYANDOTTES—Pure bred, choice hens and pullets,mated to pure Keeler ckls.,scored 92½ to 94.,15 eggs,$1.50;50 $3. Mrs.C.A.Robinson,Griswold,Ia.

White Wing Poultry Yards Milo,Ia. White Wyandottes only. Eggs $1.50 and $2 per 15. W.H. Ilsley.Milo,Ia.

R. C. White Wyandotte eggs, Duston strain; S. C. Buff Orpington, Martz and Adams strains, eggs $1.50 for 15. Address William Sommer, Perry, Ill.

S. L. WYANDOTTE eggs, high-scoring stock. Pens 1 and 2, 15, $1.50; 30, $2.50; pen 3, 15, $1; 30, $1.75. Address R. Palmatier & Son, Greene, Iowa.

PARTRIDGE Wyandotte eggs from high-scoring birds, hens up to 93¾, ckl. 94¾; pen 1, $2,13; pen 2, $1.50, 12. Circular. Edw. Meyer, Dyersville,Iowa.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

WHITE WYANDOTTES Eggs for sitting $1.50 per 15. My Wyandottes are better than ever. Address I. J. Hay, Mingo, Iowa.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address E. S. DYAS, Bellevue, Iowa.

SILVER LACED WYANDOTTE eggs from high-scoring birds 15, $1.50; 100, $4. C. W. Perkins, Fairmont, Nebraska.

SILVER LACED WYANDOTTE EGGS
15,$1;30,$1.50;100,$4. Miss Julia Driscoll, Plainfield, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92½. Write for prices, R. B. Rowe, Indianola, Ia.

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please;$5 per 100; $1.50 for 15. Mrs. F. O. Elliott, Kent, Iowa

EGGS from extra choice, large, vigorous, pure White Wyandottes, farm range. $1, 15; $5, 100; special pen, $2 per 15. Mrs. Geo. Roe, Bellevue, Ia.

PARTRIDGE WYANDOTTE EGGS. Fancy Buff Wyandottes. Order now. Thos. L. Morlan, Indianola, Iowa.

ROSE Comb Silver Laced Wyandotte Eggs from pen, $1.50 per sitting of 15. $2.75 for 2, $3.75 for 3. Address Mrs. P. F. Johnston, Elliston, Iowa.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

WHITE WYANDOTTE EGGS
$4 per 100, $1 per 15. Mrs. Geo. W. Johnston, Kent, Ia.

WHITE WYANDOTTE eggs for hatching from farm rauge, $4 per 100; 75c per 15; satisfaction guaranteed. Mrs.J.W. Kiesling, R.2, Cromwell, Ia.

A. E. STONEBROOK'S High-scoring Partridge Wyandotte eggs, $1.50, 15; Kellerstrass strain White Orps., $1.50, 15. Hampton, Ia.

White Wyandotte Eggs Pure-bred,free range, vigorous stock; $1.50 per 15, $5 per 100. Mrs.Eva G. McCoy, Prairie City, Ia.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son,Clarinda,Ia.

White Wyandotte Eggs $1 per 15; $2.75 per 50; $5 per 100 from large farm range flock. Mrs. W. O. Harris, R. 6, Muscatine, Ia.

White and Silver Laced Wyandotte Eggs 15 for $1 100 for $5
Address Malmberg Bros., Route 4, Red Oak, Iowa.

WHITE WYANDOTTES EXCLUSIVELY
EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

dangerously near the selling mark that there is little left for profit. I know of a number, just as I write, who are actually keeping poultry at a loss. That takes the pleasure all out of it, and leads so many to drop the business and say there is no money in it.

What these folks need to do is not to give up in discouragement and disappointment, but to set about growing more of the feed used. That is what the farm is for, is it not? We should expect it to raise enough of everything to feed every living creature that has its home upon it.

Again, we do not always realize that we are keeping too many hens. Not all of us like to confess that. We think somebody else keeps more than we do and they seem to make it pay. The fact is, we are always learners, and while we may have sufficient experience to warrant our keeping a limited number of hens, it does not follow that we can make a much larger flock pay.

So we crowd our houses—one of the worst things we could possibly do. We are not as careful as we should be about keeping the houses clean and we feed with little eye to the needs of the flock or the cost of production, as compared with the selling price.

I know a good woman who has a fine flock of well-bred hens, but they cost her more for keep than she gets out of them, although she gets a good big price for the eggs she sells. She has to buy everything, she does not know how to feed and care for the birds, it costs her too much for hired help, and it is a losing business with her. What she ought to do is to get a little land somewhere on which she might grow part at least of the feed she uses. She needs to cut down the bills for help, doing more herself, and she needs to grow up with her business.

There are many all over the country who are doing just what this good woman is, and that is why so many poultry plants will be dead and done for in a few years. The business is all right; the folks behind it are not running it just right, that is all.

E. L. Vincent.

And now it is going the rounds that incubator hatched chickens have 2 per cent less mineral matter than those hatched by a hen. Well, maybe, but I can show you a flock, the direct result of ten succeeding generations artificially, that are big, vigorous, all above standard weight, and—well, they don't seem to care anything about the alleged 2 per cent loss on the mineral question.—J. C.

POINTERS

—J. M. Poole, Bristow, Iowa, has an advertisement elsewhere in this department offering White Orpington eggs for sale.

—The Black Langshan egg advertisement of Mrs. J. H. Trimmer, Anita, Iowa, appears elsewhere in this department.

—Mrs. E. Millard, Earlville, Iowa, is offering Mammoth Bronze turkey eggs for sale in her advertisement appearing elsewhere in this department.

—The advertisement of Mrs. L. A. Catlin, Roseville, Ill., offering Black Langshan eggs for sale from scored stock appears elsewhere in this department.

—Wm. H. Laipple, Geneva, Iowa, offers Barred Plymouth Rock eggs for sale at reasonable prices in his advertisement found elsewhere in this department.

—Eggs from full-blooded, prize-winning Barred Plymouth Rocks are offered for sale by John Peterson, Randall, Iowa, in his advertisement appearing elsewhere in this department.

—Bert A. Randell, Mt. Zion, Iowa, guarantees satisfaction to those who buy from him Black Langshan and Indian Runner duck eggs. Prices are named in his advertisement elsewhere in this department.

—In furnishing copy for his new advertisement appearing elsewhere in this department, Steve L. Morlan, Plano, Iowa, writes: "I have sold all the eggs I can spare from my twenty-eight and thirty-pound Mammoth Bronze turkey hens. I can fill orders, however, on short notice from my twenty-six-pound hens and pullets. My eggs are guaranteed to hatch and my prices are very reasonable."

—In furnishing copy for his advertisement found elsewhere in this department, L. A. Crull, Muscatine, Iowa, writes: "I have a nice flock of large, healthy White Plymouth Rock hens that are of a heavy winter-laying strain. The cockerels are all high-scoring birds, sired by the winner of the first prize winner at the Muscatine Poultry Show. The cock bird in my flock won second at the same show. I

LEGHORNS.

ROSE COMB BROWN LEGHORNS
EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, other cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address R. R. STEWART, R. 2, Charles City, Iowa.

Rose Comb Brown Leghorns
EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address DAVENPORT & MACK, Belmond, Iowa.

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous farm range birds, bred for vitality and heavy laying; 20 eggs $1.00, 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address R. S. Ketcham, Box H, Boonville, Indiana.

S. C. W. LEGHORNS
COCKERELS all sold. Eggs for hatching. We are getting on an average of 100 to 125 eggs a day. J. M. Williamson, R. 1, Des Moines, Iowa.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93½. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs.Will Michael, Selma, Iowa.

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised, S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1
A. B. JORDAN, - Moravia, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

RoseCombBrownLeghorns
20 eggs $1; 50, $2; 100 $3.50. 18 yrs.' experience. Orders filled promptly. Ella Tharp, Mt. Sterling, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

S.C.BUFF LEGHORNS Eggs from high-scoring, prize-winning stock $1.50 per 15, Ckls. for sale, $5 each. R. E. Colburn, Weyauwega Wis.

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 and $4.50 per 100. Eggland Farm, Mt. Vernon, Iowa.

S.C.BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris&Norris, Grinnell, Iowa.

S. C. W. LEGHORNS. Pure white, persistent layers. Eggs, $1.50 per 15; $5.00 per 100. Geo. S. Phillips, Tecumseh, Nebraska.

S.C.B.LeghornEggs 75c per 15, $3.50 per 100. Baby chicks $12 per 100, farm range. Address Mrs. B. M. Painter, Lewis, Ia.

R. C. BROWN LEGHORN EGGS. $1 per 15, $4 per 100, From 200 high-scoring birds. Farm range. Address Geo. E. Banton, Epworth, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

LEGHORNS Extra white, Rose Comb, winter layers; eggs 15,$1;100, $5.00, postpaid. J. W. Osborn, Hanlontown, Iowa.

R.C.Brown Leghorn Eggs $1.00 per 15; $4.00 per 100; $7.50 per 200. Address C. H. & J. E. Bauman, Pella, Iowa.

Eggs For Hatching S. C. White Leghorns exclusively, 15 for 75c, 30 for $1.25, 100 for $3.00. Address Gilford Pitcher, Earlville, Ia.

RoseComb Brown Leghorn Eggs 50c per 15; $3 per 100. Address Plowman Bros., Douds Leando, Ia.

S. C. Brown Leghorn Eggs from scored farm range stock. 50 for $2.00, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

SINGLE COMB WHITE LEGHORN EGGS Pen 1, 15, $5; pen 2, 15, $1.50; 100, $4.
W. W. PERRY. NEW HARTFORD, IOWA.

SINGLE Comb Brown Leghorn eggs from silver cup winners. Fawn and White Indian Runner ducks. Write. Mrs. Clyde Nelson, Birmingham, Ia.

S. C. W. Leghorns, Young's. Eggs exhibition matings $2.50, $1.50, $1 per 15; $5 per 100. Chicks $12.50 per 100. Cir. Mrs. Wilson McIntyre, Red Oak, Ia.

R. C. Brown Leghorn Eggs for hatching. Farm range. Males from high-scoring stock. 15,75c; 100,$3.50. Mrs Nelson Hyde, Manson, Ia.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points,75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

LAYING strain R. C. Brown Leghorns. Bred for winter laying. High-class stock. Eggs, $1 for 15; $4 per 100. Address Geo. N. Urice, Vinton, Ia.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - - Fostoria, Iowa.

EGGS for sale from vigorous, farm-raised S. C. W. Leghorns, $1 per 15, $5 per 100. Parcel post or express prepaid. Address A. R. Cochran, Anita, Ia.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock, $2 per 60, $3 per 100. Mrs. Chas. Lasley, Floris, Ia.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

LEGHORNS.

Single Comb Brown Leghorns
I HAVE a fine pen and a good farm range flock of birds which score as high as 95 points. Eggs for hatching $1.25 per setting or $4 per 100. Write for mating list. Earl Bloom, Bridgewater, Iowa.

S. C. WHITE LEGHORNS Heavy layers. $1 for 15; $3 per 50; $5 per 100. Baby chicks $12 per 100. S. C. Brown Leghorns. Silver cup winners. $1 per 15, $3 per 50, $5 per 100. Baby chicks $12 per 100. Sterling Poultry Co., Box 10, Sterling Ill.

ROSE COMB BROWN LEGHORNS. Large, vigorous stock, strictly pure bred many from Leghorn type, from best strains of layers known to breed. Eggs high fertility carefully packed, 15, $1; 50, $2.50; 100, $4. Write Geo. Rose, R. 3, Newell, Ia.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large mealy marked cocks. Heavy laying strain. A few choice cks. $5 ea. Eggs, $1 for 15, $2 for 50, $3.50 per 100. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

EGGS---ANY NUMBER S. C. White Leghorns. Great layers and winners. Choice yards and farm flock. As good as grow. Free catalog. Mary Culver, R 1. King City, Missouri.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $5 per 100. I. R. D. eggs $1.25 per setting or $4.50 per 100 Farm range $3.50 per 100. Mrs. G. W. Brockway, Clarkesville, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50 $3.50 per 100. $5 per 200. Address E. E. Snively, Jefferson, Iowa.

BUFF LEGHORNS Single Comb, farm range, 30 eggs, $1.50, 50 eggs $2; 100 eggs, $3.50. Address Adella Hillman, Lockridge, Iowa.

S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1.50; 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

S. C. Brown Leghorn Eggs 50c per 15. Good farm range stock, $2 per 100.
MRS. BERTHA MOYLE, HILLSBORO, IOWA.

SINGLE COMB BUFF LEGHORNS EXCLUSIVELY
Eggs, $3.50 per 100. Chas. F. James, Lockridge, Ia.

R. C. Brown Leghorns Pure bred, 12 years, fine birds. Eggs $3 per 100; over that, 30c per dozen. Mrs. Laura Mathes, Clarksville, Ia.

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S.C.BrownLeghorns 30 eggs $1.00; $2.75 per 100.
NELLIE CAHOW, GREENFIELD, IOWA

R. C. W. Leghorn Eggs, $1 for 15, $1.50 for 30, $4 for 100. From prize-winning stock. Ben R. Poortinga, Cordova, Iowa,

BRAHMAS.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

GEESE.

TOULOUSE GEESE EGGS
for sale from extra large birds. Per sitting of 6 eggs $1.50; 3 sittings $4. Frank A. Gould, Rockwell City, Ia.

Toulouse Geese Eggs From old matings, 25c ea. From younger matings, 20c ea. Send cash with order. Save delay. Satisfaction guaranteed. H. B. Francisco, Hastings, Neb.

FOR SALE Toulouse goose eggs at 20 cents each. Good marked birds. Address A. B. Summerville, Monroe, Iowa

Eggs from Mammoth Toulouse Geese $2 for 10. A few ganders left. Address Ethel H. Shaw, R. 6, Newton, Iowa.

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EGGS "DARK CORNISH" EGGS
SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

S. S. HAMBURGS.

S. S. HAMBURG EGGS FOR HATCHING
Address H. C. SCHRAGE, BRISTOW, IOWA.

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50;30,$2.75;50,$3.00;100,$6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

MINORCAS.

S. C. BLACK MINORCA EGGS FOR HATCHING
50c and 75c per 15. L. Tieden, R. 2, Elkader, Iowa.

EGGS S. C. Black Minorca. Ideal laying strain. Reduced prices till June. 50 or over 5c ea. Less no. price reasonable. C. G. Dake, Epworth, Ia.

MINORCA EGGS for sale from prize-winning pens of Rose and SingleCombs. Elmwood Poultry Farm, Blakesburg, Ia.

When writing to advertisers please mention The Homestead.

ORPINGTONS.

EGGS BABY CHICKS
WHITE ORPINGTONS
White Wing Poultry Farm
C 294 Perry, Iowa.

Fortmann's Single Comb White Orpingtons
ARE strictly high class and superior type that usually is not found in White Orpingtons, 10 grand matings for this season's egg trade. Now is the time to place your order for eggs. Address **Frank Fortmann, Box 23, Dyersville, Iowa.**

S. C. BUFF ORPINGTON EGGS
CHOICE pen $2.50 per 15. Choice selected flock $1.50 per 15; $5 per 100. Indian Runner ducks, Fawn and White, eggs $1.00 per 13. Address **MRS. H. H. REED, R. F. D. 5, MARENGO, IA.**

S. C. BUFF ORPINGTON EGGS (Martz Strain
TWO grand pens. Prize-winning stock. Winter layers that are hard to beat. I guarantee 12 fertile eggs and will treat you right. Pen No. 1, $2.50; No. 2, $1.50 per 15.
Roy E. Bulechek - - Hills, Iowa.

EGGS from prize-winning S. Comb Buff Orpingtons,-two special pens, Martz and Rogers strains, $3.50 per 15; utility flock, free range, 15,$1.25;100.$5.50. Also highs-coring fawn and white I. R. duck eggs, $1.50 per 13; $4.50 per 50. Jas. McKendrick, Ernie, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

S. C. WHITE ORPINGTON.
KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock;15,$1.50;30,$2.50. Frank G. Myers, Iowa City, Ia.

S. C. B. Orps. Exclusively. Eggs from splendid flocks of pure-bred birds with size, shape and color right. $1.25 per 15, $2 per 30, $5 per 100. O. E. Sutcliffe, Clarksville, Iowa.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners; $1.50, 15; $6 per 100. Utility flock $4 per 100. Book orders early. V. H. Conner, Shell Rock, Iowa

EGGS. S. C. Buff Orpingtons, farm range, $6.00 per 100 or $1.50 per 15. Good type and color. Cook strain. Address Mrs. W. E. Zimmerman, Neola, Ia.

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EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15,$1.50;30,$2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

EGGS from pure Cook strain Buff Orpingtons. Four yards, each headed by a blue ribbon winner. Write for mating list. Wm. Cook, Eddyville, Neb.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $6 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

EGGS from S. C. Buff Orp. 30, $2.50; 100, $6. Pekin ducks, heavy weight, high-scoring, 13, $2; 35, $4; 100, $10. Address B. M. HALL, Ellsworth, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Buff Orpington eggs $1.00 per 15 and $5.00 per 100. S. C. White Leghorn eggs 75 cts. per 15 and $4.00 per 100. Mrs. C. C. Richardson, Indianola Ia.

BUFF Orpington eggs, $2 per sitting. stock direct from Martz's prize-winning and egg-laying strain. Satisfaction guaranteed. C. Klaus, Manchester, Ia.

WHITE ORPINGTONS Kellerstrass strain, eggs from choice pens. Pen No. 1 has a score of 93. Address J. H. Hartshorn, Traer, Iowa.

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S. C. Buff Orp. Eggs. 3 select pens;$3 for 15;$5 for 30. Farm range eggs. $1.50 for 15;$3.50 for 50; $6 for 100. Glynn Poultry Yards, L. B. 69, Cascade, Ia

KELLERSTRASS WHITES From a $100 pen. Also Owen Farm Buffs. Eggs $5 per 100. Orpington Farms, Big Rock, Ill.

ORPINGTONS, S. C. BUFF
$1 for 15; $5 for 100. Mrs. Walter Hoar, Kent, Iowa.

S. C. Buff Orpington Eggs for Sale
Worth the money. Alfalfadell, Farnam, Nebraska.

S. C. BUFF ORPINGTON EGGS, 15, $1.25; 30, $2; 50, $3; 100, $5. Cook strain. A choice lot. Address, mentioning Homestead, Dan McCarty, Winthrop, Ia.

KELLERSTRASS STRAIN S. C. W. Orpingtons. Eggs from "bred to lay" prize-winning stock, 15 $2; order early. D. B. Storck, Box 793, Cedar Rapids, Ia.

CRYSTAL WHITE ORPINGTON EGGS for SALE
$1 per setting of 15. J. M Poole, Bristow, Iowa.

ORPINGTONS S. C. Buff Orps. Splendid size and color, excellent layers, farm range. Eggs $5 per 100. Anna Pratt, Beaver Crossing, Neb

S. C. BUFF Orp. eggs, choice birds. Owens' strain, heavy layers, prize winners. Mottled Ancona eggs. Evergreen Poultry Yards, R. 4, Waterloo, Ia.

Single Comb Buff Orpingtons and Black Langshan eggs;good stock;$1.50 for 15 eggs. Book orders now. Address F.C. Roberts, Jolley, Ia.

ORPINGTONS.

Orpington Eggs Buff, black and white eggs for hatching, $2, $3 per 15. Have two pens of each variety. High quality. Incubator eggs, $5.50 per 100. Address
E. B. Conable - Independence, Iowa.

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W. Orpington Eggs Score 90 to 95½. 15 for $1.25. W. I. Runner Ducks. 12, $3. L. Peasley. Fairfield, Iowa.

EGGS from S. C. Buff Orpingtons. 15 $1: 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

Eggs from Cook's strain Buff Orpingtons; Our buffs are prize winners. These are splendid value at $1.50 per setting. H. Cavell, Haverhill, Ia.

FOR SALE—Cook's Single Comb Buff Orpington Eggs and baby chicks. Write for mating list. H. E. Gerry, Traer, Ia.

FARM range S. C. Buff Orp. eggs. Prize-winning stock; good type and color; am offering eggs at $1 per 15, $5 per 100. Glenn Heninger, Hedrick, Ia.

WHITE Orpington eggs, Kellerstrass strain. Pen 1 scoring 93 and up, $5 per 15; pen 2 scoring 90 and up, $2 per 15. J. P. Schowalter, Wayland, Ia.

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in you orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

R. G. McDUFF'S Black Langshan eggs for hatching; from one of the best flocks we have ever owned. 3 pens and range flock. Scoring from 91 to 96 points. Write for prices. Monroe, Iowa.

GOLD MEDAL STRAIN
BLACK LANGSHANS, high-scoring birds; eggs $1.50 per 15. Address A. KOOL, Cordova, Iowa.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

Langshan Eggs Large black eggs from stock scoring to 94. $1 per 15, $2.75 per 50, $5 per 100. Mrs. Geo. Tutt, Marathon, Iowa.

BLACK LANGSHAN EGGS for hatching, Fine, large-boned, farm stock. 75c per 15 or $4 per 105. Mrs. Jacob Conner, Sigourney, Ia.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

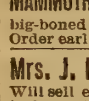
Langshans Choice high-scoring, separate pens. $1 per 15, $3 per 50, $5 per 100. Alex Peterson, Pleasant View Stock Farm, Pomeroy, Ia.

BLACK LANGSHANS Scored by Hale & Bridges. Eggs, $2 per 15; $1 per 15; $6 per 100. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

BLACK Langshan Eggs for hatching, fine, large boned, farm range, score 93-95. 75c per 15 or $4 per 100. Address Mrs. J. H. Trimmer, Anita, Iowa.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

TURKEYS



EGGS from Mammoth Bronze and White Holland turkeys; Chicago, Minn., Iowa and So. Dakota State Fair winners, 1910-11-12. Catalog for stamp. Address
J. Allen - Walnut Grove, Minn.

MAMMOTH BRONZE TURKEY EGGS from large, carefully selected, big-boned turkeys. all nicely marked. 12 egg, $5. Order early, H. U. Arthur & Sons, Spirit Lake, Ia.

Mrs. J. E. Baxter, Walnut Grove, Minnesota
Will sell eggs from her Mammoth White Holland turkeys at $3.00 per ten. Write your wants,

M. B. TURKEYS, standard wt. and quality. 2 pens by 41-lb. old, 35-lb. young tom. Heavy boned. 10 eggs $4 and $8. Catalog. M. Henningsen. Dike, Ia.

EGGS AND TOMS---Large White Holland Turkeys
Mary Culver, R. 1, King City, Mo.

MAMMOTH BRONZE TURKEY EGGS
$2.50 per 11. Mrs. E. Millard, R. 3, Earlville, Iowa.

FOR SALE M. B. turkey eggs by express or parcel post, 30 cents each. Address F. J. Sexsmith, R. F. D. 2, Orient, Iowa.

MAMMOTH WHITE HOLLAND TURKEY eggs from stock winning 1st premiums at Iowa State Fair, 1912. $3.50 per 10. Longworth's, Polk, Ia.

DOGS.

SCOTTISH TERRIERS
THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want. **S. Harr - - - Riverside, Iowa.**

SCOTCH COLLIES
POSITIVELY as good breeding and as good individuals as money will buy. Descended from the very best imported stock. Males $7 to $10. Females $5 to $7.50. Address **A. A. MARTIN & SON, Route 4, Box 107, LINCOLN, NEBRASKA.**

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

Fox Terrier Pups for Sale Cheap
For further particulars, address
Dewey Ohloff - - Postville, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunny vale Kennels, Cumming, Ia.

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific, $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia

ANCONAS.

Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

believe that I am offering good stock at a reasonable price."

—Buff Orpington eggs are advertised by W. E. Zimmerman, Neola, Iowa, at $1.50 per fifteen or $6 per 100 on this page.

—Frank G. Myers, Iowa City, Iowa, has an advertisement elsewhere in this department offering eggs from Single Comb White Orpingtons and White Wyandottes for sale, he writes: "My birds are scored and are extra good layers."

—Mrs. Madison Spencer, Audubon, Iowa, has two pens and a range flock of Barred Plymouth Rocks from which she can supply Homestead readers with eggs at reasonable prices. Her advertisement appears elsewhere in this department.

—Mrs. L. C. Reese, Prescott, Iowa, advertises Barred Plymouth Rock eggs and baby chicks from her noted prize-winning stock in her advertisement found elsewhere in this department. Write for her free circular telling all about her flock.

—"My Single Comb Brown Leghorns," writes Nellie Cahow, Greenfield, Iowa, "are healthy and vigorous and have won blue ribbons wherever shown. My hens weigh from four to five pounds." Her advertisement appears elsewhere in this department.

—"My White Wyandotte eggs are testing high in fertility and chicks are strong and vigorous," writes Mrs. N. W. Burbank, New Sharon, Iowa, in furnishing copy for advertisement appearing elsewhere in this department. She also writes that she has a fine laying strain of good color and size.

—L. G. Johnson, Steamboat Rock, Iowa, reports splendid hatches from his Single Comb Rhode Island Red eggs. All his birds have liberal grass range and lay all the year around. They are a deep velvety red color. All orders sent him will have his best attention. His advertisement appears elsewhere in this department.

—The advertisement of A. J. Arends, Blairsburg, Iowa, offering eggs from Blue Andalusians, Silver Spangled Hamburgs and Barred Plymouth Rocks will be found elsewhere in this department of The Homestead. Mr. Arends writes that he has a picked flock and has nothing but first-class birds in the pens from which he will sell eggs.

—Mrs. L. H. Davidson, Algona, Iowa, advises us that the males at the head of her flock of Wyandottes are all solid buff. Her fowls have farm range, and she guarantees eggs to be reasonably fertile, and carefully packed for shipment. Her prices are within reach of all. See advertisement elsewhere in this department, write her and mention The Homestead.

—"My stock," writes Miss Julia Drescoll, Plainfield, Iowa, whose advertisement offering Silver Laced Wyandotte eggs for sale appears elsewhere in this department, "is on farm range from twelve to fifteen eggs per setting proving fertile. I have a good laying strain. Will give all orders prompt attention. Eggs will be strictly fresh and well packed."

—Will Rasmusson, Nevada, Iowa, has a heavy-laying, white egg strain of Fawn and White Indian Runner ducks, from which he is offering eggs for sale in his advertisement elsewhere in this department. The eggs are from prize-winning stock. All stock not up to standard requirements in marketing or are undesirable in any way are carefully culled out. He adds new blood each season and makes a specialty of this variety.

—Mrs. G. W. Shaw, Monroe, Iowa, has an advertisement elsewhere in this department offering White Plymouth Rock and Fawn and White Runner ducks eggs for sale. Se writes: "I am prepared to furnish Homestead readers with choice White Plymouth Rock eggs. I have a fine flock of pullets and hens selected from 400 and headed by cockerels scoring 93 to 94½. Orders for eggs will be carefully filled and as prompt as possible."

—J. M. Rahn & Son, Clarinda, Iowa, in sending copy for their pure-white Runner and Buff Orpington duck advertisement that appears elsewhere in this department, write: "Our birds were winners at Buffalo, Boston, Los Angeles, Omaha, Topeka, Des Moines, Sioux City, St. Joe, Clarinda and a number of other shows. We have many winners of the blue ribbon in our breeding pens and we offer to Homestead readers eggs from all of them. Reports on chicken eggs have been from eleven to fourteen chicks from fifteen eggs. Duck eggs are also hatching well. We want all Homestead readers to send for one of our catalogs. It will be sent free if they will just drop us a postal."

—Earl Bloom, Bridgewater, Iowa, announces in the proper division of this paper that he is now prepared to furnish eggs for hatching to those who are interested in pure Bradley Barred Plymouth Rocks or Single Comb Brown Leghorns. He has an excellent breeding pen of Brown Leghorns headed by cockerels scoring 92 to 93½ points. The range flock of the same breeding are also good birds. Prices quoted in the advertisement are unusually reasonable. In Barred Plymouth Rocks he has two pens for cockerel mating, two pens for pullet mating and a farm range flock. Mr. Bloom has printed a neat little pamphlet giving full details as to the importance of the matings of his Plymouth Rocks. This book may be had without cost by writing to the address above named and it really should be in the hands of those contemplating the purchase of Plymouth Rocks. Kindly mention this paper when writing him.

DUCKS.

WHITE ORPINGTON AND INDIAN RUNNER DUCK
EGGS $6 per hundred, Turkey and geese eggs $1.75 per setting. We breed all leading varieties of standard poultry. Plymouth Rocks are our leaders. Stock of highest quality at let-live prices. Write for descriptive circular. Address **W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.**

FAWN AND WHITE INDIAN RUNNER DUCK EGGS FOR HATCHING FROM prize-winning stock. We specialize in Indian Runners. New blood is added each season. We keep poorly marked and undesirables carefully culled out and have a flock on farm range equal of many fancy hens. We have a heavy laying white egg strain. Eggs $1.25 per 13; $6 per 100. Will Rasmusson, Rt. 2, Box 63, Nevada, Ia.

Indian Runner Duck Eggs
FAWN and white, pure white eggs; 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

Fawn and White Indian Runner Duck Eggs.
FROM the Harshbarger Blue Ribbon strain. $1 per 15. Also White P. Rock eggs from fine strain. Bred to lay. Same price. M. A. Carty, Earlville, Ia.

Indian Runner Duck Eggs
FROM choice range stock, Fawn and White, pure white eggs, 15 for $1, 50 for $3, 100 for $5. **White I. R. Ducks** per setting 15 eggs, $3.50. Also choice utility range S. C. R. I. Red eggs, 15 for $1, 50 for $3, 100 for $5. **CHAS. SPIKE, JESUP, IOWA.**

Eggs From Champion Rouen Ducks
12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons,** R. 2, Prophetstown, Ill.

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6, John M. Hall, Williams, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from fawn and white, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners $2.00 per 12. Address E. A. KAUFFMAN. Lockridge, Iowa.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

WANTED
PEKIN DUCK EGGS in any quantities; state lowest prices. P. O. Box 734, Des Moines, Iowa.

WE are offering 100 extra choice breeding trios of pure White Runner ducks at bargain prices. Also eggs from Buff Orpington ducks. Address **Rahn & Son, Box 144, Clarinda, Iowa.**

Our Indian Runner Ducks were winners of all four 1sts at Chicago, Des Moines and Grinnell. Ten choice pairs, $5 per pair. A few drakes at $2 each. F. L. Reinhard & Son, Ottumwa, Iowa.

Indian Runner Duck Eggs From a heavy-laying strain, 15 for $1.00, 30 for $1.75, 50 for $2.50. None but fresh eggs shipped. Edward Klinetob, Clarksville, Iowa.

IMP. BLUE ORP. DUCKS Greatest layers, very hardy, easy to raise and a fine table fowl. Eggs at attractive prices. Order at once. You will be pleased. **Emma Holtz, Wilber, Neb.**

DUCKS Indian Runner ducks. Fawn Great layers. 13 eggs for $1, 100 eggs $5. Sterling Poultry Co., Box 10, Sterling, Illinois.

EGGS for hatching from pure White Runner ducks, $3.00 per 12. Also eggs from Buff Orpington ducks. We have a free catalog. Send for it. J. M. Rahn & Son, Box 144, Clarinda, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

DUCKS Indian Runner ducks, Fawn. Great layers. 13 eggs for $1.00. Anna Pratt, Beaver Crossing, Neb.

INDIAN Runner ducks, scorad drakes with fawn heads and backs; eggs $1.00 for 15, $3;00 for 50, $5.00 for 100. Address MRS. C. R. SWITZER, Lewis, Ia.

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

PEKIN DUCK EGGS $1 per 11, $6 per 100; drakes $2 each. **Miss Edith Young, Huntertown, Ind.**

FOR SALE English penciled I. R. duck eggs, $1.50 for 15 or $8 for 100. **Nishna Outlet Kennels, Oakland, Iowa.**

DUCKS---Indian Runner, Fawn and White.
Eggs $5 for 100; $1 for 13. Mrs. Walter Hoar, Kent, Ia.

Indian Runner Duck Eggs for hatching. Excellent layers. $1 per 15, $2.75 per 50; $5 per 100. Herbert N. Jenny, R. 2, Clarksville, Ia.

INDIAN RUNNER duck eggs, pure-bred, fawn and white, laying strain, high-scoring eggs $1.50 per 18. Address K. Hemmen, Blairsburg, Iowa.

FAWN and White I. R. duck eggs, flock scoring up to 96; state fair winners, W. egg strain, $1.50 per 13. Mrs. Howard Niswander, Kinross, Iowa.

EGGS—Pekin ducks, headed by drake scoring 96½ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

BABY CHICKS.

Baby Chicks 4 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A, Chatfield, Ohio

SINGLE COMB BROWN LEGHORN baby chicks $12.00 per 100. Let us book your order now for future delivery. E. A. Kauffman, Lockridge, Iowa.

BABY CHICKS. Speak quick for early hatches. Pure-bred R.C.R.I. Reds 10c ea. Buff Orps. Prize-winners, 20c ea. Mrs. L. M. Russell, Danville, Ia.

PLYMOUTH ROCKS.

HAWKINS — BRADLEY - THOMPSON

BARRED Plymouth Rocks. Our yard is headed by Bradley cockerels scoring 91¼ to 94½. Birds have fine style and excellent plumage, being barred to the skin. Prize winners wherever shown. We guarantee fair hatch and safe delivery. 15 eggs $1; 30 eggs $2; 50 eggs $3; 100 eggs $5.50.

H. C. Saunders & Son, - Montezuma, Iowa.

EGGS FOR HATCHING

BARRED P. Rocks exclusively for 30 years. Yards headed by cocks and cockerels scoring 92 to 92¾ points. Descendents from first-prize winners. Cocks and cockerels weighing 10 to 13½ pounds, hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last showings. Eggs $1.50 per 15, $2.50 per 30. Prompt shipments and eggs guaranteed fertile. M. HUMMEL, Monroe, Iowa.

WHITE PLYMOUTH ROCK EGGS

FLOCK consists of 150 pullets selected from 400 and mated with 11-pound pure-white cockerels. Prices $1.00 for 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Order from this ad.

JAS. JENSEN & SONS, NEWELL, IOWA.

OGG'S BARRED ROCKS

BEST ever. Yards headed by first cock, state show. 1912; Bradley cockerel sired by New York champion; cock, pen brother to 1st Chicago cockerel, etc, Pen eggs, $3 for 15; $5 for 30; range $2.50 for 30; $6.00 for 100. Address MASON C. OGG, Monroe, Iowa.

B. P. Rock Eggs for Hatching

FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price. 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

Barred P. Rock Eggs for Sale

FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13¼ lbs., scoring 90 to 92¼; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. **J. W. Wagner, Monroe, Iowa**

White P. Rock Eggs and Baby Chicks from high-scoring, prize-winning stock. Fishel strain. Free range. Eggs 15, $1; 100, $4.00. Chicks, 10 cents each. Address **L. A. CRULL, Route 2, Muscatine, Iowa.**

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

Buff Plymouth Rock Eggs

FROM a pure-bred and excellent laying strain. 15 eggs, $1.50. Mrs. Lee Ruggles, Birmingham, Ia.

BRADLEY BARRED ROCK

EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia.

WHITE P. ROCK EGGS From very best selected stock, $1 per 15, $2 per 30 and $5 per 100. Send cash with order. Satisfaction guaranteed. H. B. Francisco, Hastings, Neb.

Hammond Ave. Poultry Yards Eggs from my selected pen of Barred P. Rocks (that are barred). Cockerel matings. Address 215 Hammond Ave., Waterloo, Ia.

B. P. R. Eggs (Easton, Shellabarger, Bradley Bros. strains), 15 for $1, 100 for $5.00. Toulouse geese eggs 50 cents each. Address James Cockerton, Whiting, Iowa.

B. PLYMOUTH ROCK EGGS, 30 FOR $1.00
100 EGGS, $3.00. M. B. turkey eggs, 13 for $3.00. Toulouse Geese eggs, $3.00 for 10. Address **MRS. ROBT. HUNT, EARLVILLE, IOWA**

WON with my B. P. Rocks 1st, 2d P., 2d pen, 3rd hen, 3d ckl. Ia. State Fair; 2d P., B. ckl. 3d P. Cedar Rapids; silver cup, 17 ribbons at 3 other shows. Cir. free. Eggs 15, $1. Mrs. H. I. Branson, West Branch, Ia.

BARRED PLYMOUTH ROCK Eggs for hatching, full blood prize winners, great layers. You cannot lose at this price, $1.50 for 15. John Peterson, Box 29, Randall, Iowa.

Eggs For Hatching from large, high-scoring extra good laying strain. Shipped in first-class shape. Prices reasonable. Address **Mrs. E. S. Wolcott, Richland, Iowa.**

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose, Ia.

W. P. R. Exclusively. Carefully selected stock. Eggs $1.25 per 30 or $3.50 per 100. Address Mrs. W. S. Huber, Tipton, Iowa.

White Rock Eggs Selected and guaranteed. Write for prices. Address Mrs. Myrtle Carter, Panora, Iowa.

White Rocks White View Farm. Fishel strain. Eggs $1.50 for 30, $2.25 for 50, $4 for 100. Address Mrs. C. E. Pugh, Menlo, Iowa.

Barred Rock Eggs From 3 pens. Ckls. scoring up to 90¾. $1 to $1.50 per 15. Range flock $4 per 100. Mrs. Jas. McNally, Victor, Iowa.

WHITE P. Rocks, S. C. R. I. Reds. 15 Eggs parcel post $1.75. Express $1.50. Safe delivery and fertility guaranteed. Mrs. G. W. Alberts, Leigh, Neb.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

Barred P. Rock Eggs Large well-barred extra fine layers, $1.50 for 15, $3.50 for 50, $6 for 100. Mrs. W. F. Bohlander, Avoca, Ia.

For Sale Barred Rock eggs from large well-barred stock. Ckl., Page strain, $1.50 and $2 per 15. Mrs. W. S. Kern, Plainfield, Iowa.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4. Address **O. N. Woody, Route 3, Newton, Ia.**

WHITE Rock Eggs from prize winners. Fishel strain, $1.25, 15; $5, 100. F. and W. Runner duck eggs, $1 for 11. Mrs. G. W. Shaw, Monroe, Iowa.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

For Sale Eggs from prize-winning Barred Rocks at a reasonable price. Write Wm. H. Laipple, Geneva, Iowa.

EGGS From two pens and range flock of Barred R. R. at reasonable prices. Address **Mrs. Madison Spencer, Audubon, Iowa.**

THE FARMERS' FOWL Barred Plymouth Rock eggs for sale. Write Mrs. Fred Sievers, R. 1, Audubon, Iowa.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahu & Son, Box 144, Clarinda, Iowa.

PLYMOUTH ROCKS.

WHITE PLYMOUTH ROCKS AND WHITE PEKIN DUCKS CHOICE flock of White Rock pullets mated to Cock scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30; $3 per 45; $7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn. Mated to him are 9 hens weighing 10 lbs. ea. Eggs $3.00 per 15; $5.00 per 30. Extra good flock of ducks headed by drakes which were sired by fowls scoring 97 points. Eggs $1.50 per 11; $2.00 per 22; $4.00 per 50,. Fair hatch guaranteed or eggs replaced at half price. Send for circular. **John W. Houselog, Bellevue, Iowa.**

EGGS From standard exhibition Barred Plymouth Rocks, Bradley strain. Pens contain many birds closely related to noted Chicago show winners, large size, splendid markings. Price $2 per 15. Also eggs from choice pen of W. Wyandottes $2 per 15 eggs. Mrs. H. J. Hess, R. 6, Waterloo, Ia.

10 BREEDS. Buff Rock specialist. Breeder of B. & W. P. Rocks, S. C. R. I. Reds, W. C. B. Polish, L. Brahmas, S. L. Wydts., S. & R. C. B. Minorcas, B. Lang., B. C. Bantams. J. Ross Bachman, Blakesburg, Ia.

"RINGLET" BARRED PLYMOUTH ROCK EGGS FROM prize-winning birds, from all pens, $2.00 per sitting. H. M. Scott, 903 Iowa St., Vinton, Iowa.

FISHEL WHITE ROCKS direct. Eggs for hatching from high-scoring and prize-winning stock at reasonable prices. Address Mrs. A. Barclay, R. 3, Madrid, Ia.

BUFF ROCK EGGS. Who has the best Buff Rocks in the Mid-West? Send for catalog and learn about the strain that always wins. Rouen Duck Eggs. C. & C. T. Van Lint, Pella, Ia.

WHITE P. ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

BARRED ROCKS STANDARD kept up 25 years, 4 pens, two cockerel and two pullet matings, narrow, deep barring. Eggs, 45, $3; 30, $2.50; 15, $1.50. **J. O. Becker, Chariton, Ia.**

Barred Plymouth Rock Eggs Large, good shaped, well barred birds, $1.25 per 15, $2.25 per 30, $30 per 15 and $5 per 100. Arthur T. White, Emerson, Iowa.

WHITE ROCKS Great layers. Flock headed by birds from Fishel's Red Eyes, 5 point comb. Eggs, 15 for $1; 100, $5. Pens $2. Baby chicks 15c. Mrs. M. Baird, R. 8, Red Oak, Iowa.

Barred Plymouth Rocks Wales' strain W. Wyandottes. Fishel strain, large, fine marked birds, farm raised eggs $1.00 per 15; $5.00 per 100. H. J. Brown, Belmond, Iowa.

Thirty Years' Experience As a breeder and exhibitor of Plymouth Rocks. Eggs from barred, buff, white. $1 for 15, $2.50 for 50. A. Mathews, Mt. Union, Iowa.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15, $3. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

BUFF ROCK EGGS from high-scoring stock. Range, 1c, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.50 per 15; $7 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BARRED Plymouth Rocks, Pekin ducks, W. H. turkeys; eggs, Rocks 15, $1.25; 30, $2; ducks 10, $1.50; turkeys, 10, $3.50. Fred Post, Moulton, Iowa.

Barred Rock eggs; bred to lay, Bradley strain, largest type, best breeding; choice pens $2 and $3 per 15; utility 15, $1.50. Mrs. S. M. Thompson, Birmingham, Ia.

FOR SALE Eggs for hatching from select pen of Buff Rocks. Fertility guaranteed. Will A. Petersen, 1423 Cedar St., Muscatine, Iowa.

BarredRockEggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED Plymouth Rocks, pullet mating. Headed ckls. of Latham and Winikee strains. Eggs 15 $1; 100 $5. H. V. Hethershaw, R. 6, Des Moines, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15, Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

EGGS Pure-bred, fine white Plymouth Rocks, Fishel strain, heavy boned. Five cents per egg. Mrs. H. Wood, Moville, Ia.

EGGS for hatching from White Plymouth Rocks at $1 per 15; $3 per 50; $5 per 100. Farm raised, high-scoring. Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

Buff Rock Eggs 15 for $1, 100 for $4.50. White Wydt. and Pekin duck eggs $1.50 per sitting. Alfred Marquardt, De Sota, Iowa.

EGGS Pure-bred Barred Rocks, $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

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EDUCATION FOR ALL.

Edwin G. Cooley, former superintendent of the Chicago public schools, addressed a joint session of the Iowa house and senate in the house chamber recently on vocational education. Mr. Cooley has made an exhaustive study of this branch of education in Europe.

Mr. Cooley said that the problem was to interest and educate the 90 per cent of the boys and girls who have not been able to take advantage of the present educational system.

Lester Ward says: "Each age of the world's history stands on a platform erected by all past ages. It is true that all members of society use to a certain extent of the products of past achievements, but in no other sense do those members stand on the elevated platform who do not actually possess the heritage of the past. Now, as a matter of fact, it is only the intelligent classes who really possess what I have called this heritage."

The results of the mediations and investigations of past ages form an inheritance for the whole human race. Some of this inheritance does inevitably filter down through and reach the lower strata of society, but much remains practically the inheritance of the few who have the time and the means to enter into their inheritance through education of various sorts, including that of the schools. Many do not avail themselves of opportunities to share in this inheritance on account of lack of time, lack of means and lack of inclination for serious study, due to a failure to appreciate the value of this inheritance; many on account of actual inability, mental, moral or economical.

The whole human race is interested, however, in the equitable distribution of this inheritance, as its greatest benefits result from its general distribution, rather than from its monopolization by the few. Knowledge is power, but it is social power only when society generally is in possession of it. When confined to a few it may be a social curse, as the monopolization of material wealth often is. Society is sound to the core only when all parts are equitably nourished from this common fund and no organ, however humble, is starved into weakness and inefficiency.

This conception of society as an organism does not presuppose that all its members will be able to utilize these opportunities to the same extent or in the same way, but it does presuppose that all have an access to this common fund of the race long enough to enable them to get the substance they require for their healthy development and to enable them to perform their functions efficiently. Society, as a whole, must provide such opportunity for all its members as a means of self-preservation.

This means, as a practical proposition, that access to this common inheritance must not be closed to 90 per cent of our children when they are barely fourteen years of age, just at the time when they most need guidance and instruction, just at the time when character building really begins, and just when they should be objects of special attention in our educational plans. Whether the youth appreciates the need of further education or not is not the question. Society must appreciate it and provide for it by extending the compulsory period of education to cover the years of development between fourteen and eighteen even for those compelled to devote most of their time and energy to bread winning. One of the blunders of civilized countries a blunder that has led to an enormous increase in the number of youthful vagabonds and criminals,has been to neglect the child and to act as though there were a sharply defined line separating the child from the man; as though it were a wise educational policy to care for him systematically up to fourteen and then leave him abruptly and absolutely to the tender mercies of the factory and street.

The problem of legislation is, therefore, to provide a system of schools which shall give opportunity to all our youth during the years of development between fourteen and eighteen, during the years of adolescence. A small per cent of our youth do now continue school in high schools and colleges until maturity and later, sometimes too long for their own and their country's good, as they postpone their entrance into vocational life until their power of adaption begins to wane and their success in practical life is imperiled. Our problem is to extend the opportunities for vocational education to all during this adolescent period, a problem which we cannot longer defer if we hope to conserve our human resources and to hold our place in the van of civilized nations.

These schools should be administered with the distinct purpose of developing personal efficiency in the vocation, and through efficiency and joy in work to develop social efficiency—to train the man and the citizen. They should cover the period between fourteen and eighteen, be compulsory in the daytime, free, practical and covering all kinds of vocational activity.

A system of vocational schools should include voluntary continuation schools for youth over eighteen who wish to pursue technical training further in either day or evening schools, which should provide opportunities for preparation for high schools of all sorts, as well as for practical industrial business life. They should aim at the development of ambitious youth into efficient workmen, good men and women, and good citizens.

Part-time schools should be provided wherever desired where the student is employed part of the time (usually about one-half), in a factory, the remainder of the time being given to instruction in a school furnished and supported by the state. The shop will provide the severely technical part of the training, the school supplementing it by such instruction in English, mathematics, art and science as will develop industrial intelligence and make better all-around men and citizens. Such schools will be successful in specially favored communities where employers take a deep and practical interest in the education of their employes, but such schools cannot be depended upon to provide vocational instruction for the great majority of our youth.

America should have schools providing vocational instruction for the full time of the students, and undertaking in a course of two years to prepare for apprenticeship or for practical work in the various occupations, such as agriculture, commerce, or homemaking. They may include:

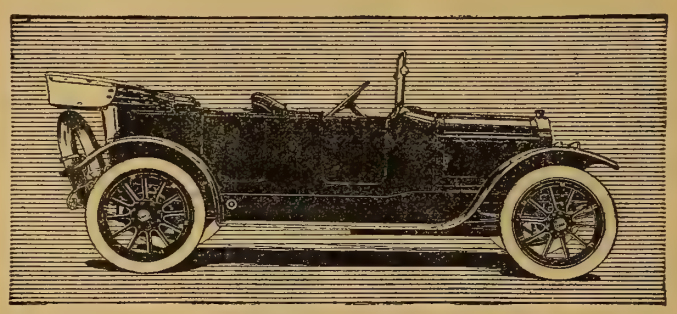
First—Schools which offer courses to youths who are unable to enter apprenticeship on account of immaturity, but who wish to acquire such preliminary knowledge of some vocations as will enable them to shorten the time of actual service as an apprentice. In America there are many who believe that one or two courses, preparatory to entrance into the shop or factory, are especially important, as they bridge over the gap between the time of leaving school at fourteen and the usual time of entering into apprenticeship at sixteen.

Second—Schools which will impart vocational instruction to both boys and girls between the years of fourteen and sixteen who enter the industries without the training of an apprenticeship. Such schools—especially those for the women's trades—have already demonstrated their efficiency in the east. The Manhattan Trade school in New York and the Boston Trade School for girls have been very successful in preparing girls between fourteen and sixteen for practical vocational life.

Third—Schools for youth of both sexes who wish to enter upon commercial pursuits. A practical course of two years should enable them to take good positions on leaving the school. Courses far superior—both from a cultural and a practical point of view—to those given in our modern business colleges can be offered and be completed in the time proposed. The public should provide them.

Fourth—Schools should be opened which offer courses in homemaking, including sanitation, cooking, sewing, care of children, care of sick, and subjects related to home economics. In many communities subjects—such as care of a dairy, and preserving of fruit and vegetables, may be taught. "Homemaking" should not be taken

(Continued on page 25.)



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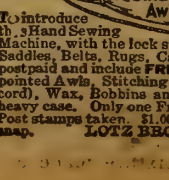

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RELATION OF GOOD ROADS TO PROGRESS.

To the Editor of The Homestead:

The primary source of wealth in our agricultura states is the farm products—the margin of profit on farm products is largely affected by the relative distance to market and the conditions of the wagon roads. Without railroads the value of Iowa land would not exceed one-quarter of what it is today. Wagon roads are the connecting l'nks between the farms and the railroads, and with good roads the farmer can take advantage of the best market at all times. Everyone that uses roads should be interested in having good roads. How can they be made? Shall we continue to make them by the primitive methods used by our forefathers, or shall we adopt modern methods?

Obsolete, impractical, inefficient and most expensive methods are in most places in use. Road making in general has not kept pace with most other industries in the use of practical and efficient labor-saving devices. The King drag has come and where used good results follow. The old way of working roads on a day too wet to plow corn or harvest, putting a few slusher fulls of earth in the middle of the road in heaps like a diminutive mountain range and leaving them to be leveled by the elements of nature and use, should be abandoned. Road work should be placed in the hands of competent workmen that work continuously during the suitable season with a practical power road-making equipment. With this ten times as much first-class road can be made and finished, as where old methods are used, with the same amount of money. This plan works no hardship on the farmer, he is the king of the country, and has enough to do on his farm without working roads, and will welcome the day that relieves him of that responsibility and slavish work.

A modern road-making outfit can be operated with three men at a cost from $15 to $20 per day, and make a mile of finished road smooth as a paved street. This includes the making of open ditches on the sides from one foot to four feet deep, at the pleasure of the operator.

How may good earth roads be made? Climate has much to do with them and must always be considered. The greatest enemy of earth roads is water, next frost. Water must be drained off on both sides and in the center of the road wherever the land is springy or sprouty by laying sufficient tile to carry it to the side ditches. In fact all side ditches are best when tiled, thus eliminating the dangers of open ditches and lessening the liability of them washing too deep, as vegetation is thus permitted to grow and check the rapid and injurious flow of surface water. Tiling costs a little more, but it is always cheaper in the end.

Roads should have a slope each way from the center of about three-quarters of an inch to the foot or level or nearly level places, on hills it may be less. If depressions are left they hold water and everything that touches these places makes them larger.

The supreme thing is to keep the roadbed dry, thus lessening the bad effects of frost and the cost of upkeep.

Scientific road making preserves as much as possible the primitive condition of the ground; that is, in grading the road do not plow it up like a field, but displace only what earth is necessary to bring the road to the proper grade and side slope. In observing these matters years are saved in making a perfect roadbed.

Earth roads are most delightful of all roads when good and free from dust. All well-graded roads can be wonderfully improved and the upkeep lessened one-half by covering the top with a coating of about two inches of sharp sand and clay in which may be mixed half crushed stone that will go through a one-inch mesh. If sand and clay are used, mix in the proportion of 80 per cent of sand and 20 per cent of clay. If crushed stone is used, mix it half and half with the sand and clay mixture. This coating should be spread on and harrowed and rolled until it is thoroughly mixed and packed so as to fill all the voids and then it will shed the water like a roof and keep your roadbed dry. In half an hour after a hard rain you will have a good road. This can be improved by sprinkling with a mixture made of crude petroleum in the proportion of one barrel of oil to three barrels of water emulsified with the soluble part or cream of clay.

A little sand improves an earth road some, but when used alone it is too porous and soon washes into the ditches.

The elemental value of our natural resources is manifest only by scientific treatment. This is clearly shown in our leading manufactories of primitive substances.

Other methods of road making entitled to consideration: creosoted block for level streets is in most respects an ideal paving. It is very slippery in cold weather and is expensive.

Asphalt paving with Portland cement concrete foundation will last ten to fifteen years with little repair when honestly made. The foundation can be resurfaced and made as good as new. Horses do not slip on it at any season of the year, and its resiliency makes it a pleasant roadbed.

First-class vitrified brick, that is, brick that is vitrified all through, when laid on a Portland cement foundation makes a very cheap and durable paving. Few clays are suitable to make paving brick. Common brick paving is a nuisance and unworthy of consideration.

Portland cement has achieved for itself more prominence within the past twenty years than any other material. When promptly laid in clean washed sharp sand and stone it will outlast stone itself. It is next to everlasting. This is not so when laid in thin layers, a four-foot walk having an expansion of approximately one foot in fifty at a temperature of ninety-six degrees Fahrenheit. When laid in thick blocks the heat is drawn from the surface and the expansion reduced to practically nothing. The Keokuk dam is constructed without expansion joints. It is massive and monolithic. For paving and sidewalks expansion joints are indispensable. The paving is without resiliency and is not pleasant for that reason. When laid with unwashed sand and stone it is disintegrated by frost and is most difficult to repair, requiring the removal and replacement of whole sections.

Macadam in use for a century is more universally used for country road paving than any other. It costs much less and is more easily repaired. All of New England is noted for its extensive and beautiful macadam roads.

The little Island of Jamaica has more than 1,000 miles of macadam roads and its honorable section men and women carry in pans broken stone sufficient to repair it.

R. W. Crawford.

Lime may improve loose, sandy soils by making them more compact and more retentive of moisture. For this purpose some form of carbonate of lime is usually recommended, and in much smaller quantities than for clay soils. Clay soils will stand more lime than sandy soils. The improvement of sandy soils will often be much greater if the lime is applied to a green crop turned under. Lime hastens the conversion of the vegetable matter into humus, and this, with the lime, helps to fill the open spaces between the sand grains. It is claimed by those who have given much attention to light sandy soils that there are no other types of soils that will respond quite so readily to liming, provided the necessary vegetable matter is supplied in the form of a green cover crop turned under.

The Rough-Road Car

By R. E. Olds, Designer

After 26 years of experience, I tell you a car for the average road ought to be built like this.

Overcapacity

The builder must know the needed strength. Then he must add at least 50 per cent, as we do in this Reo the Fifth.

He must know his steel—have it made to his formula. Then analyze it twice to make sure of it.

He can't test gears with a hammer. He must, as we do, use a crushing machine of 50 tons' capacity.

Not Enough

Tires are expensive. But oversize tires are essential to low upkeep. We use 34x4.

Roller bearings cost five times as much as common ball bearings cost. But the right car must have them. In Reo the Fifth we use 15, eleven of which are Timkens.

Drop forgings are costly, but we use 190 to avoid the risk of flaws. We use a $75 magneto, big brakes and springs, a doubly heated carburetor, a centrifugal pump. And not an engine goes out until 48 hours have been spent in five radical tests.

Reo the Fifth, without these extremes, would cost in the building $200 less. But in the next five years repairs and upkeep would cost you several times that much.

I Know

These are things I know. I have learned them from tens of thousands of cars in my 26 years of car building.

These extra precautions cost this concern two million dollars per year. We are not spending that without knowing the need of them.

We save by efficiency—by building all our own parts. We save 20 per cent by building only one model. Then we spend all those savings on hidden parts. To give you a car which, year after year, will serve you as well as when new.

Look below the frills when you buy a car. All modern cars are attractive. Find out what the maker hides.

A one-summer car is built very differently from a car that is built for keeps. If you want an honest car—a car that endures—watch these inner features.

New Control

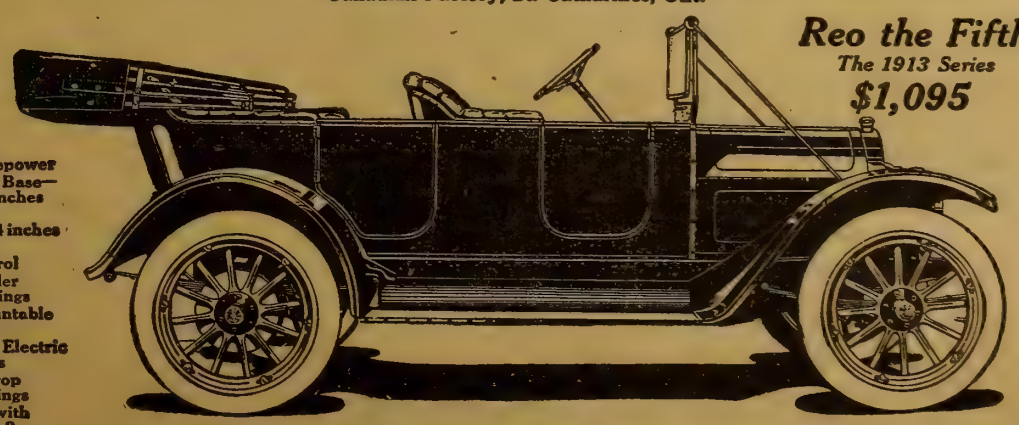
Reo the Fifth has our new control. All the gear shifting is done with one center rod, entirely out of the way. It is done by moving this rod only three inches in each of four directions.

There are no levers to clog the way of the driver. Both brakes are operated by foot pedals. And this car, like all the leading cars, has the left side drive.

A 17-coated body, nickel trimmings, electric lights, genuine leather—all the luxury you want.

Write for our catalog and we will direct you to the nearest Reo showroom. They are everywhere.

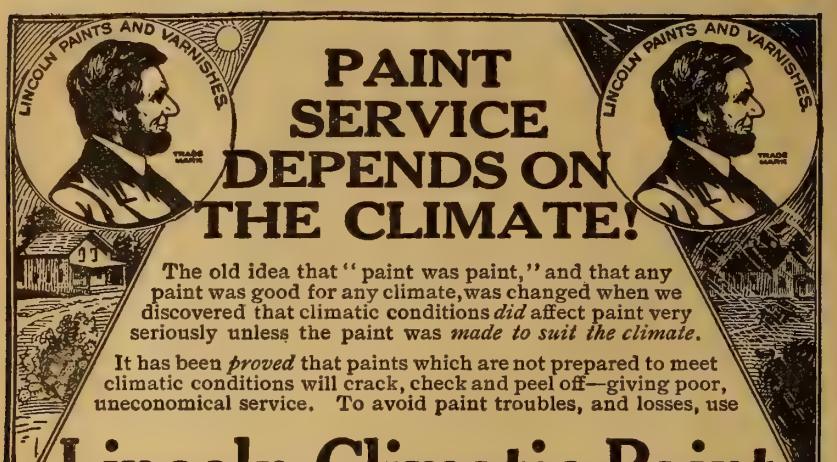
R. M. Owen & Co., General Sales Agents for Reo Motor Car Co., Lansing, Mich.
Canadian Factory, St. Catharines, Ont.



Reo the Fifth
The 1913 Series
$1,095

30-35 Horsepower
Wheel Base—112 inches
Tires—34 x 4 inches
Center Control
15 Roller Bearings
Demountable Rims
Three Electric Lights
190 Drop Forgings
Made with 5 and 2 Passenger Bodies

Top and windshield not included in price. We equip this car with mohair top, side curtains and slip cover, windshield, gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for $100 extra (list price $170). (Gray & Davis Electric Lighting and Starting System at an extra price, if wanted.)



PAINT SERVICE DEPENDS ON THE CLIMATE!

The old idea that "paint was paint," and that any paint was good for any climate, was changed when we discovered that climatic conditions *did* affect paint very seriously unless the paint was *made to suit the climate.*

It has been *proved* that paints which are not prepared to meet climatic conditions will crack, check and peel off—giving poor, uneconomical service. To avoid paint troubles, and losses, use

Lincoln Climatic Paint

Made on four formulas—to suit the damp, medium, dry or very dry sections of this country. Look at the map, showing prevailing climatic conditions in each section—showing you the paint you ought to buy.

Lincoln Climatic Paint Book—FREE

—tells about our discovery of the greatest fact the paint industry has ever known—shows why it *pays* to buy only the paint that suits your climate.

Ask your dealer for Lincoln Climatic Paints—also for Lincoln Floor Paints, Lincoln Enamels, Lincoln Carriage and Automobile Paints, Lin-Co-Lac for furniture and inside finish, Lincoln Walamo for a fine washable wall finish. There's a Lincoln Paint, Varnish, Stain, Enamel or Finish for every surface, old or new, indoors or outdoors.

Write for free copy of "Home Painting Jobs—How to Do Them." It will help you with the little painting and decorating jobs that make the home attractive and render housework easier.

LINCOLN PAINT & COLOR CO.,
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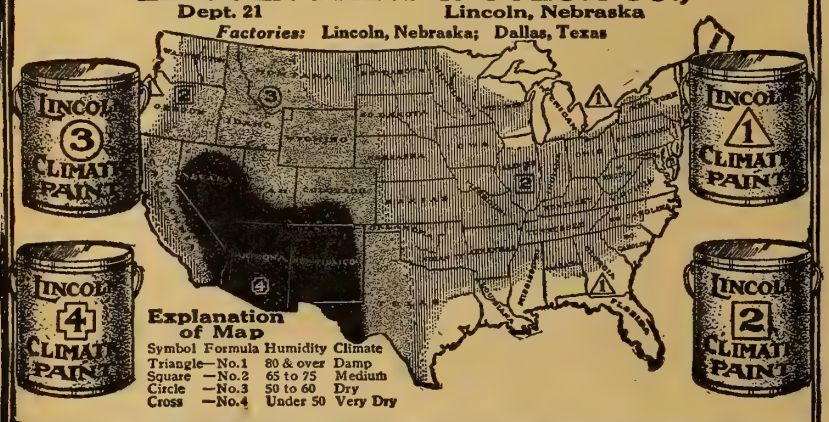
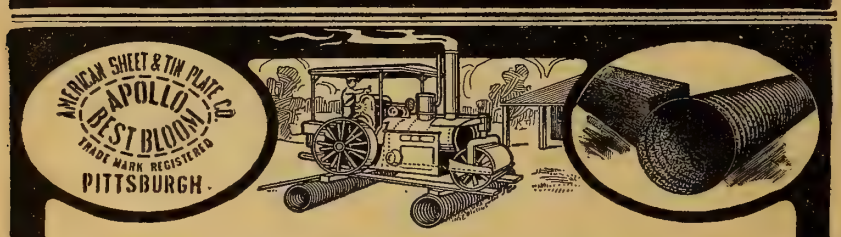
Factories: Lincoln, Nebraska; Dallas, Texas





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Prof. J. I. Van Orsum of Washington University, tested two galvanized sheet cylinders, with and without corrugations. The corrugated cylinder proved to be more than twenty-nine times as strong as the other. For strength and durability demand APOLLO Sheets for Culverts, Tanks, Cisterns, Silos, Roofing, Siding and sheet metal work. Accept no substitute. Write for full information.

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HOG CASH IN HOG-JOY

NO COSTLY PATENT FLUID

These are true pictures of hogs having a good time with the Hog Joy machine. They scramble for place around it; they rub up and down revolving the roller; thick film of oil on roller is carried to affected parts of hogs and kills the vermin.

THE HOG-JOY Saves the cost and bother of frequent dipping which is often dangerous to hogs.

It is *strongly built* of cast iron; unbreakable; can't wear out; economical in operation: doesn't waste a drop of fluid like other machines do. Shipped ready to set up with 2 gallons of oil.

No costly fluid needed—just crude oil or engine oil. But can use any patented fluid if you wish.

Let your hogs try the machine 30 days—free of cost. Your money back if you are not satisfied. Price $10; send money order, check, or cash at our risk. *Reference:* Any bank in Springfield, Ill.

Descriptive Literature Free.

THE HOG-JOY CO.,
301 N. 5th St. SPRINGFIELD, ILL.

VETERINARY MATTERS.

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

THOROUGHLY good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case.

SYMPTOMS AND TREATMENT.

SICK MARE.

We have a sorrel mare weighing 1,000 pounds that is not doing well. Her appetite is pretty good, but at times her kidneys do not act right. She is in foal. We have given her saltpeter and "black draught." Will this hurt her?

Saltpeter is bad for a pregnant mare as also is "black draught." She may be carrying a dead foal and an examination should be made by a veterinarian. Without making an examination we are unable to say what is the matter.

WEAK JOINTS.

(1) Have a two-year-old sorrel driving mare that got hurt about a year ago. She recovered from the wound, but since that time her front ankles seem to jump out of place. Is this cock ankle and if so what can be done? (2) Also have a mare around seventeen or eighteen years old that is in foal. She seems to have a good appetite, but is very thin and so slow in the field I can hardly get her along.

(1) In "cocked" ankle or "knuckling" the fetlock joint stays bent forward. You describe a weak condition which would be benefited by line-firing and blistering, or repeated blistering without firing, if you cannot have that done. (2) See answer in this issue relative "to sick mare."

BOG SPAVIN.

A bay mare seven years old has a soft lump on each hind leg inside of gambrel joint. The lumps seem to have water or air in them. These came when she was four years old. She is not lame, but gets stiff if overworked. Last fall when she was working every day I noticed that her right hind leg was very large and hard up to the hock joint. She dragged it as if it was heavy. I washed it with hot water twice a day and rubbed in arsenic liniment and it got a little smaller, but is not nearly its normal size yet.

The "lumps" are distensions of the capsular ligaments of the hock joints and contain synovia (joint oil). The condition is practically incurable and treatment will not pay. The mare should not be used for breeding as tendency to the trouble is notoriously hereditary. The enlargement of the hind leg may be lessened by hand rubbing of the parts and then bandaging snugly each time she comes into the stable.

INDIGESTION.

I have a calf that is eight days old. For the first two days it seemed all right and took nearly all the milk, but later began lying around, would take only about one-third of the milk and grinds its teeth continually. It looks gaunt and is not doing well. I turn the cow out through the day in a blue-grass pasture and did so before she calved. She also has all the good bright oat straw she can eat with a quart of oats and four ears of corn morning and night.

In such a case indigestion is present and at the first symptom of the trouble a full dose of castor oil should be given, shaken up in milk. Give it now. Stop feeding cow corn. Make calf take exercise.

RHEUMATISM.

A seven-year-old mare weighing 1,500 pounds has been troubled for the last two years with a swelling in the joints of her legs. At the present time it is the right stifle joint, and she is very lame and scarcely able to walk. Am feeding her bran with a tablespoonful of glauber salts three times a day. The veterinarians here give her temporary relief. Can she be cured permanently?

We take it that she suffers from rheumatism of an inflammatory character and if that is so it is unlikely that she will permanently recover. At time of attack give her half an ounce of salicylate of soda three times a day, or two drams of aloes at similar intervals. Do not feed millet hay.

CALF CHOLERA.

My calves seem all right at birth, nurse once or twice all right, but when twenty-four to thirty-six hours old they begin to scour and do not live more than three or four days. Have lost three within three weeks. The cows have been fed hay and corn fodder, and about ten days before calving they were fed about five quarts of ground corn and cob meal. They have been fed no moldy feed of any kind.

This is a germ disease born in the calf and cannot be cured by medicine.

BLACKLEGOIDS

JUST A LITTLE PILL ●● THIS SIZE ●●

placed under the skin by a single thrust of the instrument . . . .

No Dose to Measure.
No Liquid to Spill.
No String to Rot.

SIMPLEST, SAFEST, SUREST, QUICKEST WAY TO VACCINATE CATTLE AGAINST

BLACKLEG

Purchasers of 100 doses get an Injector FREE

May be procured from your druggist or veterinarian.

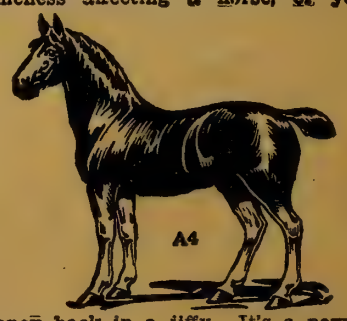
WRITE FOR CIRCULARS

PARKE, DAVIS & CO.
DEPARTMENT OF ANIMAL INDUSTRY
DETROIT, - MICHIGAN

Makes Lame Horses Sound

Cures All Kinds of Lameness, Quickly, Positively, Permanently.

Mack's $1,000 Spavin Remedy is absolutely guaranteed to cure Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boil, Sprung Knee, Lacerated and Ruptured Tendons, Sweeny and all other forms of lameness affecting a horse, or your



money back in a jiffy. It's a powerful remedy that goes right to the bottom of the trouble and cures the lameness in just a few days, and the animal may be worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair.

Ask your druggist for Mack's $1,000 Spavin Remedy—if he cannot supply you, write direct to us. Ask for our valuable Free Book, "Horse Sense" No. 8.

If you are not positive as to the cause of your horse's lameness, mark on horse above where lameness occurs and tell us how it affects his gait, also tell age of animal. Our graduate veterinarian will diagnose the trouble and tell you how to cure it. This service is free.

McKallor Drug Co., Binghamton, N. Y.

How about staying on **top of the mud,** instead of **down in the mud,** this coming year? **Wide tire steel-wheel** trucks will help to do this, and also help to make better roads for your community. Get in the game for **good roads.** Ask for our **free** catalogue of instructions.

HAVANA METAL WHEEL CO., Box 47, HAVANA, ILL.

Northfield Well Curb

Prevents disease. Germs and filth cannot seep in. Will not rust or taint water. Any size. Anyone can install. Write today direct to factory for catalog

Northfield Iron Co., 118, Water St., Northfield, Minn

It may be prevented in a large percentage of instances by vaccinating the new-born calf with imported polyvalent bacteria against the disease, or the dam may be treated in the same way before calving so that the calf will not scour. The bacteria is handled by dealers in biological products and may be ordered through the druggist

PUFF.

Last October a six-year-old bay mare stepped on a nail. The nail was pulled out immediately and turpentine inserted in the hole. The next morning there was a swelling on the upper side of the pastern joint. The hole was opened every day and the pus allowed to run out until well, but the swelling never went down. This spring the swelling seems to be getting larger and is about the size of a hen's egg, soft and appears to have fever in it. She has never been lame.

Clip off the hair and paint the puff with tincture of iodine each other night. At other times apply pressure by means of a wad of oakum or cotton kept on the part by means of a bandage.

FEEDING STALLION COLT.

I have a Percheron stud colt twenty months old weighing 1,500 pounds that I wish to keep growing so as to make a large, useful horse. What would make a good ration to feed this colt? I have oats, corn, bran and oil meal, good alfalfa and prairie hay.

The feeds mentioned are suitable, but oilmeal will not be needed when colt is on grass. Feed oats and bran on grass and keep the corn and oatmeal for winter feeding. Add hay freely when pasture becomes poor.

INDIGESTION.

Have a gray mare six years old weighing 1,350 pounds and in poor condition. I bought her a year ago and she has lost flesh all the time whether worked or idle. At times she has good appetite and ambition. She is hide bound, her hair is curly in patches and the manure is offensive. Sometimes is water bound and again will pass a large amount. She sweats easily and does not seem to be able to stand much exertion. I have given her all kinds of feed and consulted two veterinarians with no results. She has been well cared for and well fed. What are the symptoms of blood worms?

Indigestion explains all of the symptoms mentioned and blood worms may be the cause. If so the worms will be found in the manure. Have the teeth attended to by a veterinarian. Also have her clipped. Feed whole oats, bran and mixed hay. Twice daily give her half an ounce of Fowler's solution of arsenic and in a week increase to three doses a day. When she has picked up gradually discontinue the medicine.

Have a five-year-old gray Percheron mare that is not doing well. She looks gaunt and does not eat one-fourth as much hay as the other horses her size, and about one-half as much grain. She is well muscled and has good life.

See answer under this head in this week's issue.

DIFFICULT CALVING.

(1) We had a cow that could not deliver her calf. It seemed too large. Three of us finally managed to pull the calf until its hip bones came in contact with the pelvis of the cow, but could get it no farther until we placed a hook back of its hip bone, when we were able to deliver it. What should we have done in this case? (2) Is there any danger in breeding to a stallion that cribs? Is this disease hereditary? (3) Also have a young cow that comes in heat regularly, but does not get with calf. (4) Please give directions for floating a horse's mouth. (5) What can be fed a driving mare to keep her from coming in heat?

(1) Perhaps you were too hasty and did not give the cow time in which to get properly ready for calving, by relaxation of pelvic ligaments, etc. In such cases sweet oil or raw linseed oil should be freely injected to lubricate the passage. (2) The habit by some is thought to be hereditary; but usually it is learned by imitation. If the stallion is pure bred and a good individual we would use him. (3) A probe should be used, not the finger. Have an expert open the womb. (4) Dentistry has to be learned by practical lessons from an expert. We cannot give instructions here. (5) Have her spayed. That is the only preventive.

THRIFTLESS STEER.

A steer coming two years old which I am feeding for the market does not fatten like he should. I commenced feeding November 1st, but did not get them on full feed until March 1st. He eats pretty well, but not as much as the rest. I feed corn and fodder in the morning and corn and timothy hay at night. His hair looks good and he seems to have plenty of life, but does not fatten at all.

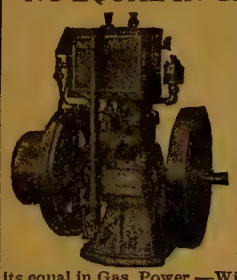
Have his teeth examined, as milk tooth crowns may have lodged and should be removed. This is a very common cause of poor condition in young cattle. Feed four times a day, adding bran, and mixed clover or alfalfa hay to the ration. He may do better on grass. If not have him tested with tuberculin, as tuberculosis may be present.

SWEATING.

After my calves get to be two and three weeks old they take sweating spells. We had one calf that sweated this way for two weeks and was just soaking wet. They are fed on cow's milk until about one month old and then they are given half whole milk and half separator skim milk. They get plenty of exercise and eat and drink well.

The sweating is due to indigestion, but may be partly due to close, poorly ventilated stable. Do away with the latter condition. Feed the milk four times a day, in small quantities. Physic each affected calf.

THE "New-Way"
AIR-COOLED.
All sizes for Heavy Duty Farm Engines
NO EQUAL IN GAS POWER



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I have been the owner of a "NEW-WAY" engine for nearly a year and it has at all times given satisfaction.
"I use it on all farm machinery to its horsepower and it is reliable in either hot or cold weather. Nothing could take my practical 3½ H. P. engine from me as I am firm in my belief there is nothing its equal in Gas Power.—William Watson, Superior, Iowa."

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LANSING, MICHIGAN, U.S.A.

SAVE-THE-HORSE
Trade-Mark
Over 106,000 Satisfied Users.
There is no better time than while the horse is working and sweating for our treatment, which penetrates both bone and tissue — reaching the cause — and cures without blistering or loss of hair.
We Originated the treatment of horses—Under Signed Contract to Return Money if Remedy Fails.
Our Latest Save-The-Horse BOOK is our 17 Years' Discoveries. Fully describes how to locate and treat 58 forms of lameness—Illustrated.
This BOOK—Sample Contract and Advice—ALL Free to (Horse Owners and Managers only). Address
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CURES HEAVES
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Gives Modern Methods of Handling Sheep, how to Select, Breed, Feed and Market them. Money wouldn't buy this Book, if you could not get another. Sent Absolutely Free. Write for our Wool price list. Shows how to cut out the middleman and get 2c to 3c a lb. more for your Wool. Weil Bros. & Co. Box 14, Ft. Wayne, Ind.

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And attend the Russell Sale.
Better hark the auctioneer's cry,
And get a Holstein without fail.

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FREE Simply send name for big free illustrated money-saving catalog. We prepay freight and guarantee goods for two years. Write today.
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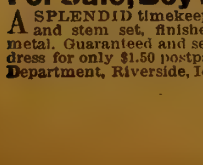

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F. D. CHEMICAL CO., FT. DODGE, IOWA

For Sale, Boy Proof Watches
A SPLENDID timekeeper for any one, stem wind and stem set, finished in either nickel or gunmetal. Guaranteed and sent on approval to any address for only $1.50 postpaid. S. W. Harr, Watch Department, Riverside, Iowa.

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Merry War Powdered Lye and Water Make The Best Mixture
Thousands of orchardists and vegetable growers have learned by experience that the surest way to make spraying pay the biggest returns is by making a spray mixture of MERRY WAR POWDERED LYE in the proportion of one 10 cent can to 15 gallons of water. If water is very hard use a little less than 15 gallons to each can. This makes 50 gallons cost only 33⅓¢; the same amount of Bordeaux Mixture when arsenate of lead is used costs from 40 to 66 cents at prevailing prices of its ingredients.
E. Myers, President-E. Myers Lye Company
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MERRY WAR POWDERED LYE makes a better spray mixture than Bordeaux Mixture, Paris Green or any other combination of chemicals because it does not burn and scar foliage, injure buds or russet fruit. But it is quick death to all destructive fungus growths such as bitter-rot, blotch, scab, etc., and also effectively destroys the codling moth, San Jose Scale and all other insects that are a menace to crop profits. To destroy Borers use one can to 10 or 12 gallons of water. The drippings act as fertilizer, enriching the soil and increasing the yield.
Read This Man's Letter "I have been using MERRY WAR POWDERED LYE for some time. Have used two cans this spring and find it fine for spraying orchard. I think it will do just what it is recommended to do." W. T. TAYLOR, Ludwig, Ark.
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SOLD BY DEALERS EVERYWHERE
MERRY WAR POWDERED LYE comes in 10c cans. It is convenient to buy in full case lots of 4 doz. cans for $4.80, at Grocers, Druggists and Feed Dealers. If yours can't supply you, write us, giving your dealers' names, we will see that you are supplied, and send a valuable booklet free. Order direct from us in full case lots—4 dozen cans $4.80, if your dealers' won't supply you.
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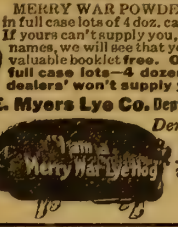

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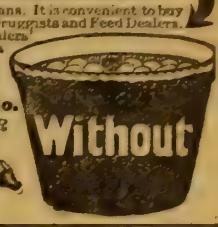

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All ills in man or beast usually have a small beginning. The breakdown of a horse starts, as a rule, with a shoe boil or a wire cut, or bruises, collar sores, swollen glands, strained ligaments or something else of this kind—all of which can be cured by Absorbine.
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USE ABSORBINE to remove Bursal Enlargements, Bog Spavins, Thoroughpins, Puffs, Shoe Boils, Capped Hocks, Swollen, Painful Swellings; to cure any strain or lameness; to repair strained, ruptured tendons, ligaments or muscles; to strengthen any part that needs it. You can buy Absorbine at regular dealers, price $2.00 per bottle or sent to you, express prepaid with full instructions. Write me about any case on which you would like advice. Horse book 1A free. Manufactured only by
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Let me send you this great 5 h. p. Galloway Engine or any of my engines from 1 3-4 to 15 h. p., for a free test on your own farm for 90 days. Give it every severe test. Then, if you don't think it's the best engine you ever saw, send it back. I'll refund your money and pay freight BOTH ways. Ever hear of a fairer offer? Never!
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Write Quick!! Now, don't delay. This offer is limited--good for 60 days only. Write me a postal card or letter right away and I'll send you my latest price-slashing offer, my big engine book and my extra co-operative offer--all FREE. Don't wait. Write me TODAY -- RIGHT NOW.
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LISTEN! Before I started to make engines you paid $250 to $300 for an engine nowhere near as good. Today I've got all middlemen on the run.

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$600 FORD AUTOMOBILE GIVEN AWAY
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The Farm Magazine will give this car in their big automobile contest, which opens May 1st and closes June 26th. Anyone is eligible to enter this contest, whether a subscriber to our paper or not. Mail the coupon and let us tell you all about it.

OBERA PETIT, Anita, Ia.

OUR METHOD
This contest is different from any you ever heard about. There are no strings to it in any way. It costs nothing to enter. We will give not only the automobile as first prize, but twenty-four other grand prizes as well, among them are $100 in gold, gold watches, silver sets and many other valuable gifts. To those who do not win a prize, we have a very liberal commission offer.
Here is a fine chance for you to win an elegant prize. Just think, a little work each day and a fine new Ford automobile as a reward. This new machine has never been run a mile, and is ready for you or some other industrious person.
Would You Like This Auto

YOU CAN GET THIS AUTO
Anyone who enters this contest can win the auto by just a little effort. We want to increase our subscription list in your locality. All you have to do is to take subscriptions to our paper and send them to us. For each subscription we will allow you votes, according to the vote scale, which we will send you. The person who has the most votes on June 26th will get the auto FREE, the person who gets the second largest number of votes gets $100 in gold, and so on until the prizes are all awarded. If you have felt that you could not afford to buy an auto heretofore, now is your chance. You can earn this fine machine without one cent to pay. If you win the auto and do not wish the car, we will send you the equivalent of the car in money, which is $600. We will gladly furnish you the names of other contestants who have won prizes to assure you of our fair and square methods. We will also gladly refer you to any bank or business house in Omaha as to our standing.

Here Is a Letter From Our Last Winner
Contest Editor: Anita, Ia.
I take this method of thanking the people of Anita and vicinity who so kindly helped me in winning the automobile in the contest.
I also wish to thank the people of Fontanelle and Bridgewater who were so kind and generous to me.
And I wish to thank the contest manager, he treated me so fair.
Yours truly, OBERA PETIT.

10,000 Votes Free
In order to give you a start, we will give you 10,000 votes FREE. All you have to do is to send in the coupon below. Then you can add to this by sending in subscriptions, for which you will be credited with votes. It doesn't take long to pile up a big lot of votes to your credit.
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FARM MAGAZINE, Omaha, Neb.
Enter my name in your contest and send full particulars. C
Name .....
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This coupon will give me 10,000 votes to start.

HORTICULTURE

CO-OPERATION AMONG FRUIT GROWERS.

Developing methods of production and distribution of agricultural products along purely economic lines is of comparatively recent origin, more attention having been given possibly to the side of production. However important it may be to be able to grow crops in large quantities or of particular qualities at a minimum cost, it is equally important to be able to dispose of them in the most economical way and to the best possible advantage, for frequently the easiest and largest profits in any business are those made through methods of handling, marketing and distribution; and it is here that judgment based upon economic principles must be exercised and careful dealing resorted to if the highest returns are to be realized.

A common method of disposing of the crop is by selling directly to retailers, which has proved successful in some instances by choosing only one dealer in a place and putting nothing but first-class material on the market. The most usual method of disposing of fruit crops, as contrasted with selling other farm products, is through commission merchants. This arrangement, however, has not proved entirely satisfactory, the reasons for which are attributed partly to the system, partly to the middleman, and partly to the producer, the middleman always looking out for his individual interest, taking advantage frequently of the producer's ignorance of marketing and market conditions, while the producer in many instances performs his part of the transaction in a careless indifferent, or haphazard way. The business is conducted on the plan that if there is ay profit it belongs to the commission man; and if any loss it goes to the producer. This frequently invites dishonesty, and much swindling has brought the commission men as a class into disfavor and sometimes unjustly.

Selling through co-operative associations, which is more largely practiced by the fruit growers of the west than any other section of the United States, has proven successful just in proportion as the members have followed the rules, regulations, and instructions of such associations, which in many cases has been with very gratifying results. In addition to returning profits to the producer, which formerly went to a number of middlemen, co-operation has taught the grower the economic value of a first-class product; the economic importance of picking, packing and handling his produce; and fair dealing with the purchaser and public.

W. H. Chandler, of the Missouri Experiment Station, who has secured information from quite a large number of co-operative associations regarding their methods of distribution and marketing fruit, points out that the growth of the co-operative movement among fruit growers in the United States has been very rapid during the past ten years, even surpassing the expectation of the most sanguine and best-informed men interested in the fruit business. A number of failures among the organizations, however, are reported.

From the reports of a number of successful associations submitted to the station it is shown that co-operation enables growers to make use of a number of better business methods; (1) By enabling them, through their manager or representative, to meet on equal terms the men with whom they deal. Their representative, thoroughly understanding the markets, "with all the growers and a good pack behind him controls a business that demands respect, and he should generally be able to set the price." It must be remembered, however, that co-operation is not for the purpose of creating a monopoly or forcing unnatural prices for the product. (2) It frequently brings about or forces track selling, which in the opinion of some brings better results than consigning, one association reporting that for 272 cars consigned it received an average of $1 per crate and for 288 cars sold on track $1.66 per crate. (3) Wholesale dealing is made possible, not only in selling farm products, but in buying anything the grower needs, especially packing materials, spraying materials, fertilizers, and the like. (4) Because of the larger business it controls the association is likely to get better service from the railroads, cold-storage plants, etc. "Then it is in a position to secure adjustments with the railroads and other large concerns on points of disagreement, when the cost of litigation would make such adjustments impossible with the small grower." (5) Men of better business ability than the average grower can be secured to manage the association, which means much in the economic disposition of a fruit crop or most any other crop for many of the best growers, who understand their trees and the methods of care, the best, are not the best adapted to deal with men and markets and market conditions.

Co-operation further enables growers to make use of fruits grown in small quantities, which are often wasted because no man has enough to sell to advantage. With co-operation a car could often be loaded and the fruit used to some advantage to each grower, carload lots being considered the economic unit of shipment. It secures better equipment for handling a crop in a section, as disorganized sections are less likely to have the necessary cold storage precooling, and other equipment for the best handling of a fruit crop. In addition to the benefits of co-operation already mentioned, Mr. Chandler notes the following: (1) The crop may be distributed so as to prevent gluts in the market; (2) it enables the growers to establish a brand that will be known in the markets and will thus insure better prices; (3) it insures better care

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John Deere Disc Harrows and Corn Planters

This spring pressure harrow pulverizes your soil thoroughly and puts it in condition to grow the biggest crop you ever raised. The extraordinary flexibility of John Deere Disc Harrows due to spring pressure, insures thorough cultivation of your entire field. It leaves small middles and cuts out dead furrows.

John Deere Corn Planters

The great accuracy of drop is what naturally interests you most. John Deere Planters give the highest accuracy of drop attainable. Repeated tests show ten to fifteen bushel per acre in favor of accurate planting. You profit by the increased yield due to perfect stand, by additional years of service and freedom from break down.

Bigger Crops from Better Seed Beds and More and Better Corn

Two books that will prove a great help to you in the preparation of your land for seed, and the planting of corn. These books contain valuable suggestions by men who are experienced on those subjects. "To get the books you want," see lower right hand corner of ad.

John Deere Wagons

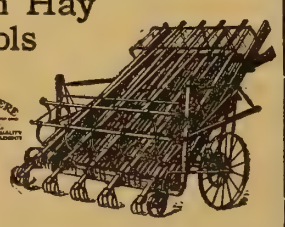
No other implement on the farm is used as much as the wagon. Nothing is more abused. Consequently the wagon should have the quality to withstand this usage.

John Deere Wagons are built of oak and hickory—the best material known for wagon making. They stand up under the most severe tests, and give the satisfaction you want.

John Deere Ironclad Wagons

A booklet that gives you valuable pointers on how to buy a wagon, and other interesting articles that you should know about. See lower right hand corner of ad. and see how "to get the books you want."

Dain Hay Tools



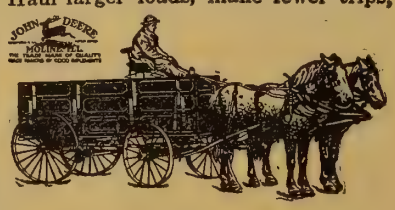
Use Dain Hay Tools and put up your hay quicker, better and more economically than with any other hay tools.

The Dain Hay Loader is easy to operate. Simple construction, few parts, nothing to get out of order. Material and workmanship of the known Dain standard, proven by service to be reliable and trustworthy. Ask your John Deere Dealer about the Dain line.

Dain Hay Loader and Side Delivery Rake tell you about how to use these tools to handle your hay rapidly and economically. Should you want information about other Dain hay tools, tell us which tool you are interested in. See lower right hand corner of ad. how "to get the books you want."

Davenport Roller Bearing Steel Wagons

Reduces the draft; makes your hauling easy; the roller bearings do that. Haul larger loads, make fewer trips,



save time. Your time is worth money to you.

You do the same work with one horse less; if you now use three horses you will only need two; if you use four, three will do the work.

No repair bills to pay; no tires to reset; the Davenport Roller Bearing Steel Wagon is practically everlasting. The first cost is the only cost.

The steel spokes don't pick up and carry the mud like wooden spokes; they cut through it.

Ask to see the Davenport wagon at your John Deere Dealer's.

When The Going is Hard

Containing twenty-six articles on wagons. Tells you why the dish is put into the wooden wheels and other things you should know about. It is interesting and you'll like it. Lower right hand corner of ad. tells how "to get the books you want."

Better Farm Implements and How to Use Them illustrates and describes the most complete line of farm implements made. Tells when and how to use them under varying conditions—answers questions about farm machinery and is a practical encyclopedia for the farm. It is worth dollars to you. You can't afford to be without it. Write today for "Better Farm Implements and How to Use Them."

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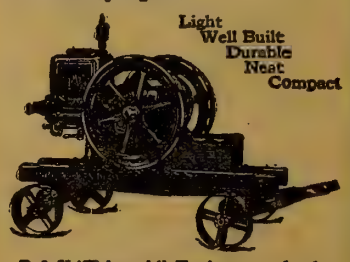
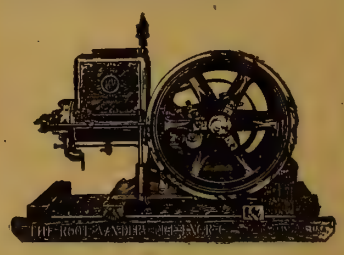
Develop even more than rated horsepower. Easily started, smooth-running, dependable. Economical in use of fuel.

Speed easily increased or decreased. Best type of magneto on the market. Portable and stationary engines.



R & V "Triumph" Engines can be furnished in sizes 1 to 12-hp., with the hopper-cooling system. This cooling system does away with tank, pump, piping and fittings, making a neat, compact engine noted for its good working qualities. No air-cooled engine troubles to contend with.



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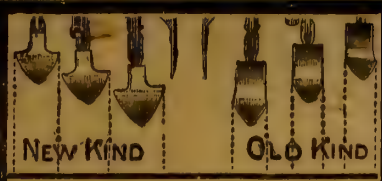
Write to us at once stating which books you want, and they will be mailed free. To be sure that you get a copy of "Better Farm Implements and How to Use Them" ask us for Package No. X -27



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WITH my surface and deep cultivator shovels. They scour where others won't, leave ground smooth, handle and run very easy for boys and horses. Your money will be returned if shovels don't please. Send for booklet.

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SEED CORN at farmers' prices. Reid's Yellow Dent, Iowa Yellow Dent 90 day, Iowa Silver Mine Boone County White and Big Bloody Butcher; germination practically perfect; prices $1.75 for seed shelled and graded, selected ear seed in bags $2.25, in crates $2.50; 15 lbs. free with 5-bu. lots, or over, any variety. We ship on approval. Write for catalog and free samples. **BOTNA VALLEY SEED CO., Box E, LEWIS, IOWA.**

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AT VERY LOW PRICES

MILLET, CANE, SOY BEANS AND ALL FIELD SEEDS Send for descriptive booklet.

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From seed corn center of the world. Reid's Yellow Dent, Silver Mine, White Cap Yellow, Legal Tender, Blair Yellow, Nebraska White Prize, Pride of the North, Blair White. Send for free catalogue.

AYE BROS., Blair, Neb.

Box 1. Seed corn center of the world.

SEED CORN

I HAVE 600 bushels of equal amounts of Reid's Yellow Dent, Iowa Silver Mine and Farmers' Friend, all pure bred and raised for me and gathered in October, sorted and placed on racks, dried by hot air. Will guarantee 90 to 100% will grow; 10-day approval. Price $2.00 per bushel in crates or sack, $1.50 shelled. Write for catalog. **W. F. SHINDLEY SEED HOUSE, LEWIS, IOWA.**

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90 to 95 days. Corn graded and tested. If interested, write for sample and price.

E. W. MILLER, GUTHRIE CENTER, IA.

NORTHERN GROWN SEED POTATOES. Big yielders, hardy, disease resisting. Grown in the rich virgin soil of our Conrath Gardens. Standard varieties. Pure-bred, true to type. Nothing better ever offered. We are growers and sell at FARMERS' PRICES. Write today for potato circular and price list. North Wisconsin Seed Co., Box 1, Conrath, Wis.

200 PLANTS $1.00

100 of that choice new variety Dunlap and 100 of two other choice varieties with our new book, "How to Plant and Grow Them"

J. L. TODD & COMPANY,

Route 3, Box 1 Des Moines, Iowa

SEED CORN FOR SALE

WE have Yellow Dent seed corn for sale. Dried by artificial heat. Tests 90%. Seed grown by practical farmers who have made corn growing a success. References, State Bank and First National Bank, Prairie City. Norris & Coffey, Prairie City, Ia.

250 STRAWBERRY PLANTS $1.00

CHOICE of Sen. Dunlap, Warfield, Crescent or Excelsior. Send for **Free Illustrated Strawberry Book.** Tells how to grow them. **The Wildhagen Strawberry Beds, B. 414, Waterloo, Ia.**

SEED CORN Reid's and Golden Eagle, a cattle corn, deepest grain and smallest cob grown. September picked and dried on hangers, best type and germination. Crated, $3.75, Shelled and graded, $2.75. Send for circulars. **W. C. BRYANT, PRINCETON, ILLINOIS**

SEED CORN

EARLY Yellow Dent and World's Fair, selected early in September, germination perfect, in ear, or tipped and shelled $2 per bushel. Satisfaction guaranteed. J. H. Berry & Sons, R. 6, Iowa City, Ia.

Cane Timothy, Barley, Sweet Corn and Field Corn, Pumpkin, Swedish Red Oats, Watermelon Seed, Alfalfa, Millet. Write for prices and sample. Satisfaction guaranteed. Hawkeye Seed Co., Lockridge, Ia.

Patent Smoke House for smoking seed corn, no squirrels, gophers, rats or mice will eat it. Will sell state, county or the whole patent. J. C. Hutton, Springfield, South Dakota.

SEED CORN Reid's Yellow Dent that tests 95 or better, guaranteed to grow, will ship on approval. Write for sample and price. **Harry Nauman, West Liberty, Iowa.**

DRAINAGE You can drain your land without digging a ditch. Write for circular at once.

VERTICAL DRAINAGE CO., Clinton, Iowa

of the orchards; and (4) in nearly all cases it results in greater stability of the industry.—[Farmers' Bulletin.

GROWING THE DEWBERRY.

A Nebraska subscriber writes:

I am starting a small fruit plantation and want to ask about the Lucretia dewberry. I have one friend who says plant it by all means, but another neighbor of some experience says: "It's not worth bothering with." Which shall I believe? As I expect to make my living from a five-acre fruit patch I must work every game that will bring in an extra dollar.

The dewberry may be profitably grown, but it should be understood at the first that it requires special care, and more labor than some other fruits. If a man is willing to learn the business, and do the required work at the right time, the dewberry bears big crops and proves profitable in any reasonable market

Coming in season as it does just between the raspberry and the blackberry, it is very desirable and often sells as an early blackberry. But many customers, when they have once learned its flavor, prefers it to the blackberry and will even pay an extra price for it.

The faults of the dewberry for northern culture are these: It is a too rampant grower and its long, trailing vines are tender and will winter kill unless protected. These are two serious faults and successful treatment has direct reference to these weaknesses.

When the new growth reaches the length of six or seven feet the tips must be mercilessly clipped. If they are not clipped they will grow out fifteen feet or more and the most of the fruit buds will form out on the extreme ends. It is to avoid this and keep the vines in handling shape that clipping is necessary. The clipping will make them branch out; these laterals will also need clipping—no side branch should be left over two feet long. Because the vines are covered with sharp, strong thorns stout buckskin gloves are needed to handle the dewberry.

When fall comes prepare to cover by cutting out all the old fruiting canes and all new ones except the best six to the hill. Usually a great number of sprouts will come up, especially if the soil is very rich, so it is the custom to recommend poor soil for this fruit. Now coil up the six preferred canes about the hill—the coil need not be over two feet in diameter—and cover with earth, not deeply, but just enough to prevent freezing and thawing again. Then in the spring, about April 25th, raise your six vines, and tie them to a seven-foot post. Space them evenly about the post, and when fruiting time comes your post will be an ebony column, a sight to behold. The hills should be five feet apart each way, making room for good culture.

This is the system followed by the fruit men along the clay hills in the neighborhood of Cincinnati. One hill will often yield six quarts of fruit, and the selling price is from $3 to $4 per case. So when it is skilfully done there is money in dewberries, but when no system is followed the crop is sure to be a disappointment.

Many men say, "Oh, that is too much work," and they let the vines run and take the chances and what they get is a failure, for, be it known, the dewberry will not pay for the ground it occupies unless the measures needed for success are regularly followed.

It is better—far better—to have ten hills and do the work needed to make a crop than to have ten acres, or a half acre, grown upon the lazy man's plan.

Not knowing just what plan you are following, in the apportionment of your ground we would advise that you try about one-fourth acre of dewberries. That is enough to start with. Select the poorest soil you have and do not give them manure. Follow strictly the methods by which fruit men elsewhere have succeeded and you cannot fail.

THE FALL-BEARING STRAWBERRY.

To the Editor of The Homestead:

We notice in the horticultural journals that a lively discussion is now on as to the merits, and demerits of the ever-bearing strawberry. We have been for some time expecting this ventilation of an interesting subject. When the sale of a variety in the fruit

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40-ACRE FARM BARN, four drawings—elevation, floor plan and full framing details—all you need. Material and work specifications.

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world has reached the enormous proportions of the trade now enjoyed by the sponsors of the fall strawberries it is time that the general public should be considering it with some interest.

After a careful study of the question, reading all available data, and especially observing accomplished results in the field, this writer has admitted unanimously that the September strawberry has arrived. Indeed the evidence that it has arrived and will arrive in any desired quantity (after wise plans are duly laid out and executed) is so overwhelming that it is idle to doubt and useless to combat the conclusion.

There is absolutely no good and sufficient reason for denying that the same faithful care and labor required to produce great crops of strawberries in June, when directed into the proper channel will produce equally great crops of berries in September.

Buy the plants which have the fall-fruiting habit, plant in rich soil and give intelligent, faithful culture, and nature will do the rest exactly as she does in June.

Just now plenty of men are rushing into print with the momentous statement that "they bought a dozen so-called fall strawberry plants and that the results were disappointing."

Do not let these ex parte statements influence you. With our own eyes we have seen acres of this fruit in one field and almost unbelievably loaded with berries in September. Ripe fruit, green fruit, and bloom abounding at the same time, from ten berries upon small plants up to hundreds (between four and five hundred) upon each hill where runners had been cut.

It is altogether too late to discuss the question whether or not fall strawberries can be grown. They are grown in enormous quantities, upon just such soil and under just such conditions as are found all through the Mississippi valley. They are grown in hundreds of varieties, just as the June berries are, and of as many different sizes and forms. They do have one quality, and a very valuable and important characteristic which differentiates them from the early summer berries. It is this: The young plants grown from runners starting in June will fruit abundantly three months later. Now just think of that and think what it means. It is a most surprising fact, but it is a fact well established and undeniable.

The only question which it is timely and sensible to discuss now in relation to the once suppositious, but now real, fall strawberries is this one: Will it pay to grow berries largely for the September market?

This is the question and one which only experience can answer. That answer will determine the practical value of this great advance in horticulture. At present time the opinions of fruit growers differ greatly. Some think that berries will not sell in competition with grapes and other fruit of the later season. Others say that people never tire of strawberries and will gladly buy them as long as they can find them.

There is perhaps some truth in each view, for buyers will divide into classes. There is certainly a very large class of persons who never tire of berries. But one point should be kept in mind by the berry grower. It is not at all likely that unusual prices will be realized for the late berries. Be moderate in your expectations. If you can sell a big crop at June prices, say ten to fifteen cents, be satisfied. That is doing well enough.

But while results are uncertain, of this one fact you may be sure: the fall strawberry has arrived numerously and with both feet.

M. E. Hinkley.

BUD BLIGHT IN APPLES.

Could you tell me what to put in with Bordeaux mixture spray for bud blight in apple trees, as my trees were affected with it? Anything along that line would be appreciated.

If we only could tell you just how to cure blight we would very gladly do so, gladly for several reasons. First it would be an accommodation to you and secondly it would make this writer the most renowned horticultural writer in the land. It would boom the editor as the most sagacious scientist living. It would put him ahead of all the professors in all the agricultural colleges in the land. For not one of them has been able to solve the mystery of blight and suggest a positive cure. And if they, with all their special research and study do not know, how can a poor busy editor be expected to solve the mystery?

Of course, the horticultural professor will have an answer when you ask him what to do. He will assume a look of profound wisdom and say: "My dear man, we do not advise spraying for this trouble. That may do some good, but this is such a subtle disease that it is only partially controlled by any external applications. Cutting is the treatment we advise. As soon as the first symptoms of blight appear clip and burn the limb. Do this as fast as it appears and there will be no blight left in your orchard." This is, of course, a very wise and self-evident proposition, and the professor might have added, "sometimes there will be no orchard left."

There is one fortunate fact about blight: It is not a regular visitant, but appears spasmodically. You may think one season that your orchard is ruined. It will look as though a fire had passed over it and then for two years there may not be a sign of it. So this subscriber may find that he has no need of a remedy the coming season.

A number of theories as to the cause of blight have been advanced and defended with great learning and plausibility. And though one theory may be diametrically opposed to another, both are made to appear reasonable to the amateur.

The late William Langham, of Iowa, a practical horticulturist and a very thoughtful observer, left on record a theory and a suggestion which seem as wise as anything we have seen. At least it is worth quoting to stimulate thought. He said: A subscriber from South Dakota writes:

Let us examine how a plant or tree grows. It gets its nutriment from the soil and air, and the two principal organs of growth and life are the roots and leaves. Entering the system at and through the root hairs, water is taken up, bearing in solution small amounts of lime, potash, nitrogen and other chemical substances. This water, commonly called sap, is carried upward to the leaves, where it meets the carbonic acid and other elements of the air. Each little leaf of the tree becomes a laboratory in which the heat and light of the sun work the most wonderful transformations. Here is formed or gathered plant food consisting of carbon, starch, sugar, etc., which being distributed downward through twigs, limbs, trunk and roots, in the outer layers, make the new growth, or wood. The upward flow of the sap and the downward flow of the food material go on simultaneously. This movement is the greatest in the cambium layer and the bark next to it.

Now the blight is practically a disease of the new growth. It is caused by something going wrong in the chemical laboratory of the leaf. And if this be true the disease should be treated through the circulatory system of the tree. We are rapidly coming to have the serum treatment for all human and animal diseases, the cure being carried through the blood. And in the same way the cure for tree diseases should be carried into the circulation of the tree. The remedy could be applied to the soil and then taken up by the roots. Or possibly it may be put directly into the tree. As the sap of the tree carries the elements of tree growth, carbon, nitrogen, potash, magnesia, etc., why should it not be made the vehicle for carrying the remedy to make it immune to disease?

Now this is Mr. Langham's theory, and while he has never been hailed as a prophet and a great scientist we are not sure but that he should be.

We have read much upon the subject of blight, but we are free to say that we have never found anything more pointed, more sensible than the above. If there be a more likely theory as to the cause, and possible cure of blight we have yet to see it. But let our fruitmen take courage, for the affliction of blight is not likely to be permanent. Your orchards will come up smiling and will be as good as new.

Ask your neighbor to subscriber for The Homestead.

15 to 40 Cents An Acre
Protects Your Crops from Hail

Many farmers, otherwise careful, overlook hail insurance, yet $10 is lost by hail in any grain-growing area to $1 by fire, lightning and wind combined.

The Home Mutual Hail Association, of Cherokee, Iowa, is a farmers' mutual company. No profits are made for stock holders and you get the dividends in low-priced insurance.

Therefore, this company is able to insure your crops at a bottom figure. By spreading our risk over a large area, selecting territory and exercising judicious care in not accepting too much insurance in any one neighborhood so as not to be exposed to a large loss in the event of a severe storm in that locality, we established a basis on which hail insurance can be bought by our members profitably.

We have a book entitled "Ten yards of What They Say," which includes numerous comments and endorsement from Iowa farmers who have recovered from us on account of damaged crops. The first one reads: "Your adjuster settled my hail loss to my entire satisfaction and I recommend my neighbors to take hail insurance with you." The numerous other testimonials from various parts of the state of Iowa are similar.

We also have another book we would like to send you, which will give you our complete plan. It explains why we insure on the **Acreage Basis** instead of the bushel plan, pointing out that the poorest farmers claim the heaviest losses when hail visits them and want to share equally with the good farmers of the neighborhood. On the **Acreage Basis** each is on an equal footing and the capable, industrious farmer does not have to pay extra premium to pay losses for his indolent neighbor. It also shows many other meritorious things and prints in full our Articles of Incorporation and By-laws. We want you to get these two books and make a study of our company. No obligation is attached. They are free to every reader of this paper.

$1000.00 IN PRIZES TO CORN GROWERS

We want you to also send to us for particulars with reference to our premiums for the best ten ears of corn grown in Iowa. We are going to distribute $1,000.00 to Iowa corn growers. The state is divided into four zones and a $50 prize will be awarded as the first premium in each zone and eight smaller premiums for other good corn. However, in case you are a member of our association by July 15th, we will pay you a **double** premium or $100 if you win first prize in your zone, $50 if second prize, etc., doubling all the way down. The contest is to be held under the direction of the Iowa Corn and Small Grain Growers' Association, Ames, Iowa, and you can be assured of fair treatment. We hope you will get in early. Write us today for the booklets mentioned above and the rules of the corn contest.

Home Mutual Hail Association, Cherokee, Ia.

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EVERY ear of our corn is tested for germination and we ship it in the ear, in the crate, so you can see just what it is. Our corn is adapted to your locality, no matter what part of the corn belt. Our growers are among the leading prize-winning exhibitors at the best corn shows, and our seed is especially selected and tested. Our price is extremely low when you consider that it only costs you less than 80c per acre for this specially selected and thoroughly tested seed. Tell us whether you want the Yellow Dent or the White Dent and we will guarantee the seed we send you will entirely satisfy or your money back. Price, shipped in the ear, in bushel crates, seed tested, $5 per bushel. A bushel will plant six to seven acres. Can you make a better investment? Order today. Address

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PURE-BRED Reid's Yellow Dent only $2.50 per bushel in the **ear.** Extra Select, 4 grains tested from each ear, $5 per bushel. I grow and handle every ear and sell on approval. Address **W. P. COON, Seed Corn Specialist, Ames, Iowa.**

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For a *few cents* you can save hours of time, miles of steps and a pile of dollars. The convenience and luxury of electricity is at your hand ready for instant use *all the time*, summer or winter, rain or shine.

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Kratzer Buggies are made right here in Des Moines; made to fit middle west road conditions; made of the very finest materials that can be bought. Beautifully finished, light running, easy riding, comfortable buggies that will stand the wear for years—and sold at a *fair price*—if your dealer doesn't carry **Kratzer** Vehicles write us direct, giving us his name.

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Kratzer Carriage Company

Catalog FREE—send for it

104 W. First Street, Des Moines, Iowa.

HOW TO FEED CHICKENS.

Of the methods tried and found successful at the Maine Agricultural Station for the feeding of incubator chicks the following is liked best: The mixture for two or three days following the twenty-four or thirty-six hours that must elapse consists of fine beef scraps, one part to six parts rolled oats. This must not be moistened. It is fed with grit, on the brooder floor, preferably on a clean board.

When the chicks are three or four days old they are fed a mixture of hard, finely broken grain, early in the morning. This consists of:

Fifteen parts of cracked wheat, ten parts of granulated oatmeal, fifteen parts of fine screened cracked corn, three parts of fine cracked peas, two parts of broken rice, five parts of chick grit and two parts of charcoal (chick size).

Any dry commercial chick feed may be substituted for the broken grains mentioned. In fact, when only a small flock is raised the commercial feed is more convenient, and when the labor of mixing is taken into account, almost as cheap. Get sharp, fine grit and chick charcoal with your commercial product.

At 9 o'clock they are fed a mixture having the following composition:

Four parts wheat bran, half part of linseed meal, three and one-half parts of cornmeal, two parts of screened beef scraps, one part alfalfa meal.

This mixture is scalded and then dry rolled oats are mixed with it in the proportion of two parts rolled oats to six parts of the mixture. The reason for mixing in this way is that it has been found by experience that if rolled oats are mixed with the other materials of the mash before scalding there is a tendency for the mash to be soggy after it is wet.

The mash is fed in plates with low rims, and is left before the chicks about five or ten minutes, never more than ten. At 12:30 the hard grains are fed again, and at about 4:30 or 5 the dry meal mash mixture of fine beef scraps and rolled oats is given to them for half an hour, or left until their bedtime. The last meal being dry, the chicks cannot eat it readily and the danger of overeating need not be feared.

The meals are given to them in quantities enough to allow them to fill up in a short time. So that they will have a rest between time and come up for the next meal with a keen appetite, give them only enough to satisfy them for the time being. If they have been overfed at the previous meal, or grain has been left in the litter, they do not care for the feeds coming. The watch on them should be sharp, because if overfed a few times they become debilitated and sometimes worthless.

This method should be employed until the chicks are about three weeks old. From three to six or eight weeks the composition of mash is as follows:

Two parts wheat bran, three parts cornmeal, half part linseed meal, one part daisy flour, one part beef scraps.

By this time the weather is warm enough to give them free range, and they are pretty well able to eat according to your own way of feeding, which for a month or so should have as a base, in the matter of grain, cracked corn and whole wheat. Hulled oats are good, too.

SUCCESS THAT FOLLOWS PERSISTENCE.

(Continued from page 3.)

most an exclusive extent. He has converted nearly the entire Poland China raising fraternity to his way of thinking and doing, and that merely by keeping on in his own way without regard to what the other fellow was doing. When Peter Mouw had established the merit of his hogs an alert newspaper man, looking for adjectives that had not been worn threadbare in hog description, dubbed them the "big type." The aptness of the expression touched a popular chord, and soon every breeder who wished to impress upon his patrons that his hogs had size used the words so freely that they now stand merely as a hackneyed expression.

The man of whom we write has won a world-wide reputation and his financial reward has been a liberal one. His farm is a great one, with substantial improvements. It carries a herd of pure-bred Hereford cattle that have also gained a reputation for having size, and a flock of superior Shropshire sheep.

The following is taken from the Woman's Home Companion: "Ferrets are more remunerative than either white mice or pigeons, as when they are about two months old they are ready for the market, and bring $4 or $5 a pair. These little animals breed twice in a season, and have from five to fourteen in a litter. They are as easy to raise as cats, and make pretty pets. A small boy, whose grandfather made him a Christmas present of three female ferrets and one male, cleared over $200 last season."

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Send for our FREE booklet, "3 Ways to Plant Corn"

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With Prest-O-Lite you have a brilliant light that turns on and off like a gas jet at a cost no greater, usually less, than carbide to feed a generator. Nothing to freeze in winter. Nothing to clean out or adjust. No matter how rough the road, the flame is always steady. The road is flooded far ahead with a clear white light, that shows you ruts and bumps even better at night than you can see them in daytime.

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Size "E" Prest-O-Lite only costs $15, and this must not be regarded as money spent. When you've exhausted a Prest-O-Lite you exchange it for a brand new one, paying only a small exchange fee. This exchange fee is no greater than you would pay for carbide to give you an equal amount of light from your lamps using a generator.

Remember, a Prest-O-Lite **never** becomes second-hand. It can always be sold for about what you pay for it. In addition to this, you use without trouble or waste, the most economical and dependable light money can buy.

Prest-O-Lite Is Better Than Any Other Light.

Prest-O-Lite is as simple as it is efficient. There are no delicate wires or connections to jar loose and break. No expensive repairs or adjustments are ever needed. No aggravating delays and expense waiting for expert mechanics to come from the factory to locate any trouble. Prest-O-Lite is the only system of brilliant automobile lighting in which you can have perfect confidence.

You can even have the convenience of lighting your lamps from the driver's seat if you wish. There are several automatic lighters (we make one) that will light and extinguish your gas lamps from the driver's seat, with the utmost ease and convenience. The expense is small.

Remember, one single repair on any complicated, unreliable system might easily cost you more than five years' use of Prest-O-Lite. Don't be misled into thinking you can get light for nothing.

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If you have any doubt of your being able to obtain Prest-O-Lite exchanges conveniently, write us. Or consult our nearest dealer. There's one in every city and town and in most small villages. They will gladly arrange to take care of you.

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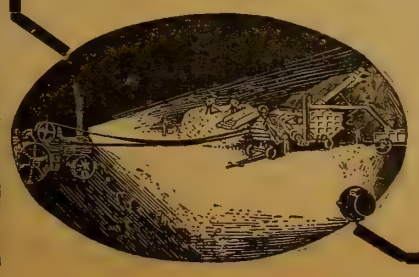
Whenever night catches you with some important bit of farm work unfinished you can set up your Prest-O-Lite on the spot and continue working in a light as bright as day. You'll never realize the full advantages of Prest-O-Lite until you have depended on it in some emergency.



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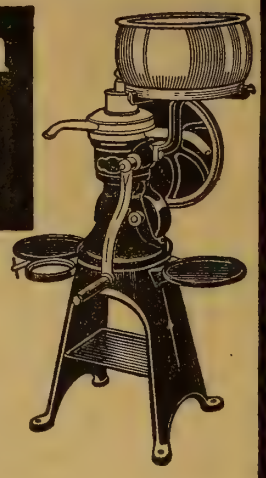

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Take the most important point of all, close skimming. My Beatrice gets all the cream.

Time and again I have tested it. I let the skimmed milk stand for 24 or 36 hours, even until it gets to be clabber, and I never find even a trace of cream on it. That's close enough skimming for me.

There are a lot of other important things—easy cleaning, big capacity, durability, etc. I want to take them up separately. The Beatrice has the advantage on every one of them. Watch for my next talk.

But right here I want to say the Beatrice Separator is a wonder for keeping "always in order." Nothing ever seems to go wrong. And if repairs or extra parts are needed you can get them quick at a much lower price than on other separators.

My advice: Talk to a Beatrice dealer, or write direct to the manufacturer. Address nearest office.

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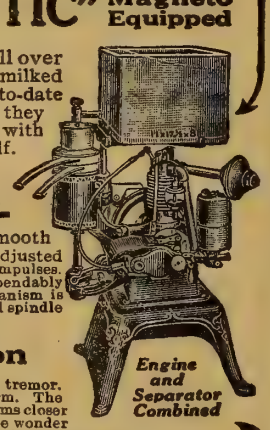
is displacing thousands of hand power machines all over the country. Wherever ten or more cows are being milked cranking a separator is a back-breaking grind. Up-to-date dairymen won't put up with it any longer, not when they find out that the work can be done quicker and better with gasoline power compactly built into the separator itself.



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You can easily net from 15c to 20c more on every sheep you shear with a Stewart No. 9 Machine. Don't labor with hand shears, in the old, hard, sweaty way. Don't have aching, swollen wrists. Don't scar and disfigure your sheep with uneven shearing and spoil the wool with second cuts. Take off the fleece smoothly and quickly in one unbroken blanket with a

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It's the most perfect hand operated shearing machine ever devised. Has ball bearings in every part where friction or wear occurs. Has a ball bearing shearing head of the latest improved Stewart pattern. Complete, including four combs and four cutters of the celebrated Stewart quality $11.50. Get one from your dealer, or send $2 and we will ship C.O.D. for balance. Satisfaction Guaranteed. Catalogue of Sheep Shearing and Horse Clipping Machines FREE.

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Think what it means to have a silo that has—(1) All Steel Door Frame; (2) Patented Inner Anchor; (3) Patented Base Anchor; (4) Patented Angle Steel Rib; (5) The Spline-Dowel. With all these patented features it's no wonder the Saginaw can't twist, warp, collapse, cave in, shift on its foundation or tilt. Built like a Big city Skyscraper.

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

DEVELOPING THE BUTTER HERD.

To the Editor of The Homestead:

How to reduce the cost of producing a pound of butter fat without lowering the quality of the product is a question of vital interest to every dairy farmer who is building up a herd of butter producing cows. What we want is a cow which really produces milk containing a high per cent of butter fat and which at the same time answers all of the purposes we demand in a first-class dairy cow. Is it the Jersey or Guernsey, the Ayrshire, or the Holstein-Friesian?

The fat per cent differs in the various breeds. Thus the Jersey and the Guernsey cattle have a very high per cent of fat, often above 5 per cent, the Ayrshire 3.8 per cent and the Holstein-Friesians 3.4 per cent. It is largely breed peculiarities which cause this wide difference in fat per cent, but very often it is the selection of calves, because breeders have been striving to develop their herds with either one or the other quality in view. The Hollanders have been increasing the milk flow because they wanted more milk and more cheese, selecting the calves from cows which gave most milk and paying no attention to the richness of the milk. On the other hand the Jersey and Guernsey breeders have appreciated the butter fat the most. In their native home the Ayrshires have been developed for both butter and milk and stand between these two extremes as milk and butter producers. At the present time the Holstein-Friesians are giving the Jerseys and Guernseys a hard fight for the position as the best dairy cows in the world.

Since the Babcock tester came into general use the breeders of the Holstein-Friesian cattle have been improving their herds along butter producing lines. Not alone in this country but in Denmark the best breeders are selecting calves from their richest milking cows, and by breeding the heifers to bulls only from rich milking families they are each generation adding to the fat per cent of the milk. In the light of recent investigations it would seem that the Jerseys and Guernseys have about reached the limit of their development in the production of milk rich in butter fat. The fat per cent of the Holstein-Friesian breed is at present about 1.5 per cent lower than the Jersey or Guernsey, but recent experiments show that it is possible to gradually increase their fat per cent. This together with the fact that they already excel in milk production is very good evidence that the breed possesses great development possibilities.

The admirers of Jerseys claim that the Holsteins are too large and eat too much, but, on the other hand, the conditions on farms where butter is produced demand a large, vigorous cow that has great storage and digestive capacity to enable her to consume and economically convert large quantities of home-grown forage and fodders into milk and butter fat. In this respect the Holsteins and Ayrshires seem to have an advantage over the smaller and more refined Jerseys and Guernseys. Each breed has certain advantages over others and when we consider these facts carefully and without prejudice it is difficult to determine which is the best butter breed. It is my judgment that it is more the man and the individuals he selects within the breed than it is in the breed. Some men will succeed with a herd where others would fail.

No matter which breed is selected, or whether a man undertakes to grade up his herd of common cattle, he must give them good care and plenty of nourishing foods. When we consider the conditions that surround the average dairy herd, we need not wonder that so many men fail to make the business pay. In fact the wonder to me is that many cows do not give up in disgust and die instead of producing as much as they do. Science is fast replacing the sentiment that hallowed around memories of "Old Brindle and Bess." Dairying nowadays is a cold business proposition.

To build up a good butter producing herd we must introduce new and im-

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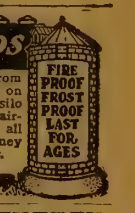

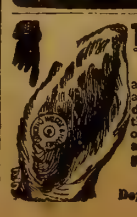

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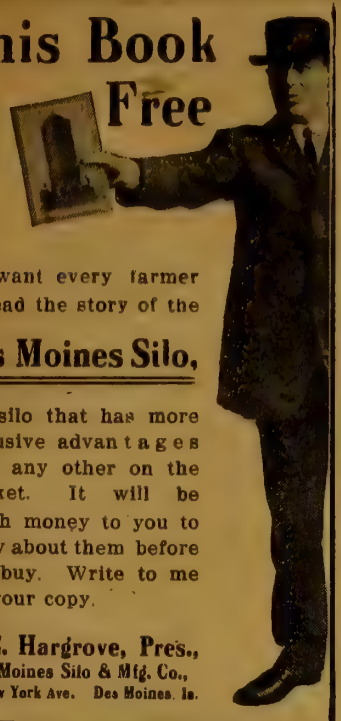

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proved methods of herd handling. Try to have good pastures and supplement them with green forage and ensilage when they are short and dry. In winter give the cows a good, warm stable, well-lighted and well-ventilated with plenty of sunshine. Feed them a ration of good palatable food and plenty of pure water, and then if they do not pay for their keep, look them squarely in the face and say, "Either pay for your keep or go to the canners." If they are good cows they will pay and if not you should be glad to get rid of them at any price. Cows of any breed should be made to produce two hundred and fifty pounds of butter a year, and this should be gradually increased until the herd will average above three hundred pounds a year.

After selecting the cows and providing them with a good stable and giving them good care, the next matter to be considered is how to handle the milk. It is a settled fact that the dairy farmer who is keeping more than eight cows and continues to do without an improved farm separator is standing in his own light.

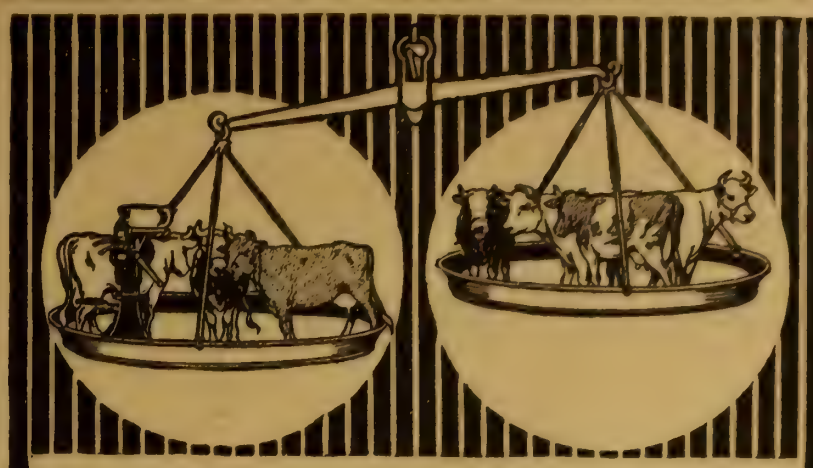
The best time to separate milk is when it is warm from the cow, and at this time any of the standard machines will do good work and remove the butter fat so closely that we need not worry. Another important point in separating is to have the machine adjusted so that the cream will be thick and rich, containing from 30 to 40 per cent fat. Cream separated in this manner will churn more rapidly and less fat will remain in the butter milk, besides the work can be done at a lower temperature. The great secret is to have the cream cooled as soon as possible after it is separated, to at least fifty degrees, and holding it there until a few hours before it is warmed up to ripen.

Now comes the question of ripening for as a general rule it is best not to churn the cream in an unripened condition. You will get good butter, but there are difficulties in churning that make it very intricate work and undesirable for any but an expert to undertake. In ripening the cream it is necessary that we take great care to avoid as much as possible all bad odors and flavors. Ripening cream means holding it at a temperature that is proper until the various kinds of bacteria have time to develop lactic acid, which aids in churning and gives the characteristic flavor to the best butter. Keep the cream until there is enough to make a churning, raise temperature to about 65 or 70 degrees and keep near this temperature until about ripe and then cool before churning. Well ripened cream should thicken and run like oil and have a gloss on a fresh surface. If the ripening process has gone too far it is impossible to make finely flavored butter from it. Never mix sweet and sour cream. Half ripened cream neither sweet nor sour will churn very hard and make very poor butter. If sweet cream is churned use it when perfectly fresh.

The churning of well-ripened cream is one of the simple arts of butter-making. Churn at such a temperature that the butter will come in from forty to sixty minutes when the churn is not more than one-third full of cream. This gives better butter than when it comes more rapidly.

Use water at a temperature of forty to forty-five degrees in cold weather, allowing for the season, solidity of the butter, etc. Put salt in the churn and stir thoroughly with a wooden spoon. There is nothing more difficult in making good, even-quality butter than to get a uniform amount of salt in different churnings. If the salt is well-mixed with the butter it will need but little working. Press it just hard enough on any good worker to work out the surplus water and give it a compact texture. As a general rule it is preferable to move from the churn to the worker and then pack at once and avoid streaked butter. The butter maker should always judge for himself when it is worked enough.

Next comes the question of marketing the product and I believe this is the most important of all. When sold at the grocery it is not apt to bring its actual value. The trade is divided into four classes: the local dealer, the grocer, the private family and the hotel trade. I would not depend upon the first two named, except the gro-



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With such a big saving it is hard to understand why any cow owner should try to get along without a De Laval Cream Separator.

If you are selling cream or making butter, and have no separator, or else an inferior machine, we know if we could put a De Laval on your place we would be doing you a personal favor.

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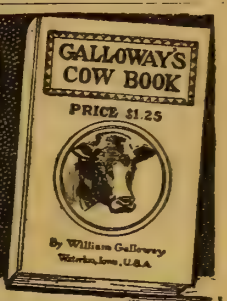

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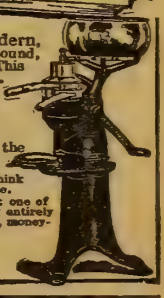

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ceryman who has a select trade among the best city consumers who depend upon him for certain brands of butter. In that way he will give you a good price for your product and it will be a nice trade to handle. Of course the private family and hotel trade pays the best, but it is a critical and exacting trade to please and look after.

L. J. M.

REPLENISHING THE DAIRY.

To the Editor of The Homestead:

I had a long talk with one of the leading dairymen of our country the other day. He said that he owed the greater part of his success to the fact that he raised the heifer calves, from the best cows in his herd, to take their place in the dairy. He prefers to do this because good dairy heifers are very hard to buy and by rearing the home product he is able to bring it up just the way he thinks a dairy calf should be reared. He claims that many animals of good blood and natural ability as milk producers do not attain their best because they were not properly cared for when developing. Much of the future worth of the cow is determined in the first year or two of its life. If underfed, it will be stunted and undersized and if dirty and lousy it will be nervous and depleted. A calf, no matter how gentle by nature, will develop into a very vicious cow if constantly whacked and cursed when young. A vicious unreliable cow, no matter how large a producer, is not worth keeping in the dairy herd.

This man likes to use skim milk in growing the calves and recommends it highly. He even says that when the milk is sold that it pays to keep enough for the calves. While he recommends skim milk he cautions against using it too freely, especially while the calves are very young and their stomachs unable to use it all as it causes scours. The calf is taught to drink, sweet whole milk being given for the first week, after which sweet skim milk is gradually substituted. Care is taken that the milk when given is not more nor less than the exact temperature of calf's body. This, he says, is very important. In about two or three weeks the calf will begin to nibble and the best green stuff or hay on the place should be given to encourage them. Fresh air, sunshine and exercise are excellent health promoters and should be available for all stock.

He does not believe in breeding the heifer until two years old, for if bred before mature the result is an undersized calf and the cow herself is stunted. As soon as a heifer comes to be producing normally her efficiency is tested and if she falls below standard she is sacrificed at once. By these methods he succeeds in maintaining a dairy herd of a very high standard.

C. J. Griffing.

CARE OF THE MILK HOUSE.

To the Editor of The Homestead:

On the door of the milk house on a farm where market milk of a high degree is produced there is printed: "No admittance while milk is being cooled or bottled." The rule as stated is not merely a decoration for the door, but is a rule that is very strictly enforced each morning and evening when the milk is being cared for. A moment's reflection shows the wisdom of the manager in enforcing such a regulation. All reasonable precaution is taken in the barn to secure clean and wholesome milk. It reaches the milk room with having had very little exposure to possible contamination or to any atmospheric taint. In the milk room while the milk is flowing over the cooler there is its greatest exposure to the atmosphere. Should the air in the room in which the cooler hangs be anything but pure the milk surely would absorb some of the impurities. Suppose there should be disease germs in that room. Certainly many of them would be caught in the milk. Should a person afflicted with anything contagious enter the room it is highly probable some of the germs would be drawn into the milk and be transferred to the human being who might later consume the milk.

Aside from disease germs and the possibility of their getting into the milk there are the more ordinary forms of filth and foreign matter to be guarded against. A person coming in off a dusty road or from the barnyard or garden has material upon his clothes that ought not to be shaken off in a milk room to more or less pollute the milk. Truly the rule on the milk house door. "No admittance while the milk is being handled" is a good one.

To keep people out during that time is not in itself sufficient, however. The milk house must itself be clean. To be clean it must be light. Not an electric bulb which will furnish light with which a man can do his work, but lighted with sunlight which kills germs of any and all kinds and purifies the air. For sunlight to get into the milk room there must be large sashes of window glass. It is impossible for a milk house to have too much glass. That is not sufficient. The milk house should be located where sunlight can get at it and not on the shaded side of some other farm building. One must go farther than merely providing for the entrance of sunlight. The place must be kept scrupulously clean. For the place to have a cement floor and cement walls means much in the thoroughness and ease of cleansing.

Ordinarily the milk house or some part of it is the place where the utensils are washed and cared for. How elaborate an equipment can be provided for that purpose just as in all other features depends upon the size of the herd and many other factors. Thorough cleansing can be done only by the use of hot water and steam. On farms where genuine certified milk is produced every utensil and each and every bottle is scalded thoroughly or else sterilized in a dry oven to kill all germs that may have gained lodgment. Along with cleansing the utensils the possibility and use of sunlight as a disinfectant must not be overlooked. Not many, perhaps, only a few have steam in their milk houses, yet there is probably no one who does not have access to sunlight. It is always a pleasing sight to see cans and pails racked up on the south side of the milk house where the sunlight has unobstructed opportunity to disinfect them thoroughly.

The place for storing the milk is quite an important feature. The lower the temperature the less the bacterial development. Hence it is essential to keep the milk at as low a temperature as possible. In our western states and to some extent in eastern sections men have cool flowing spring water at a temperature of fifty or slightly above. Such is well nigh ideal and any farmer or dairyman who has such a supply of fresh, cool water is fortunate. The certified milk producer uses ice and if he is conscientious he will use only artificial ice on account of the danger of transmitting disease through the use of pond ice. For the ordinary farmer to have a milk vat or tank in which the cans may be set and to have all the water that is pumped pass through the tank is the most practicable plan to follow. If the water enters at the bottom and passes out at the top greater benefit will come from its cooling effects. Whatever the cost, whatever the style of construction, whatever the methods used for cleansing the whole should lead toward purity and wholesomeness of product.

H. E. McCartney.

ALLOWING THE BULL TO RUN.

To the Editor of The Homestead:

A recent issue of your paper contained an article on "Handling the Bull" in which it was stated that a bull should never be allowed to run with the cows and but one service should be allowed. I agree with nearly everything this subscriber says except this, and I would like to ask why it is that when a bull is not allowed to run with the cows or to serve one up until the time he is two or three years old, he is entirely unfit for use, especially at first. I bought one past two that was in good condition and yet I had to use my neighbor's bull. However, he got all right finally.

I believe that the bull should be used at about one and one-half years of age with a few cows, say four or five. If only ten or twelve cows are kept a three-year-old bull can just as well run with them and no harm will result. It is almost impossible to keep a bull in an ordinary pasture unless one has a bull pen where they can get both feed and water. Some things are advocated in the papers which common people cannot afford.

Iowa Subscriber.

The great Holstein sire, Count Cornucopia Korndyke, fifty-five of whose daughters are included in the sale of T. H. Russell, Geneva, Ohio, May 1st and 2d. See field notes.

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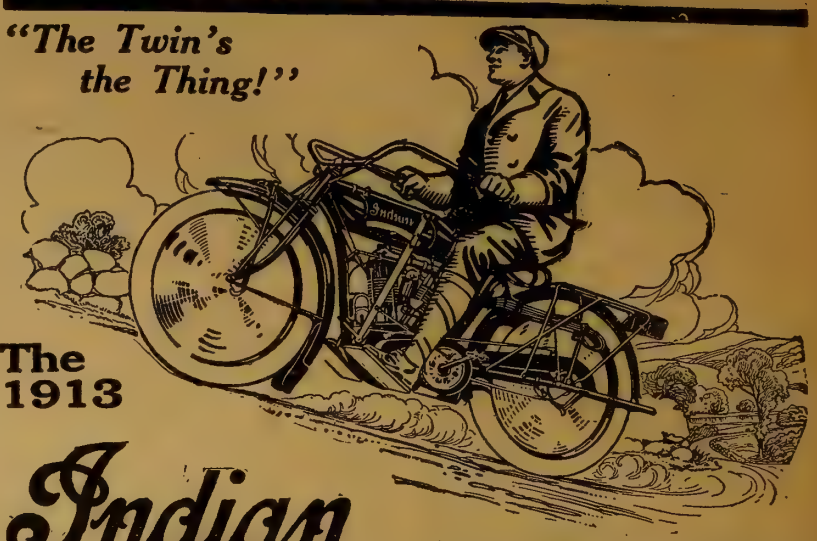

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EDUCATION FOR ALL.

(Continued from page 14.)

in any narrow sense of the word, but must be as broad as the field of the home in modern life. This should include some training in art and music.

Fifth—Agricultural winter schools. There are some special features to be mentioned in connection with this special type of schools as planned for youth in the country. These youths are not able to attend school during the entire ten months of school instruction in the ordinary town or city. They must put in the summer months in work on the farm. These schools should be open for five or six months of the year, in the daytime, and should furnish industrial, business and agricultural training.

The courses should be two years in length, and the vocational subjects should be taught by men and women, trained technically and practically in agriculture. During the summer months such men or women should be employed as itinerant teachers in visiting the students of the school at their home work on the farms, in consulting with and advising parents on scientific and business questions, and in giving lectures and demonstrations on practical subjects connected with farming.

In addition to the itinerant teachers from the agricultural winter schools, there should be a permanent staff of itinerant teachers who give special scientific advice and instruction to the farmers of the district served. These teachers should specialize in some line of agricultural work, such as live stock, small grain, swine, dairying, horse raising, bee keeping, garden vegetables, fruits or business. One of the principal advantages of this system of schools over the ordinary agricultural departments in high schools is the close touch between teachers, pupils and parents—both in the school and on the farm.

In connection with such agricultural winter schools there should also be conducted evening agricultural continuation schools for persons older than eighteen. Such classes should be under the same general management and direction as the agricultural winter schools, and should be supplied with practical teachers. The courses, in addition to some academic work, should pay especial attention to the academic, technical and business needs of the pupils to be served.

These schools will necessarily be day schools, managed by specially trained teachers, seeking special practical ends, and treating subjects as they are related to the vocational life of the pupils. They must, therefore, be administered and controlled largely by men and women from practical life for whom and with whom the youth will be associated in vocational life. As these schools are radically different from the ordinary ones in purpose, methods and scope of work, special machinery must be provided for organizing and administering them. These schools aim at vocational efficiency and can secure it only by the closest possible co-operation of the persons carrying on the vocation—the employers and the employes. As the vocation is the center of interest, rather than any subject or subjects, persons must administer these schools who know the vocations from the standpoint of both employer and employe.

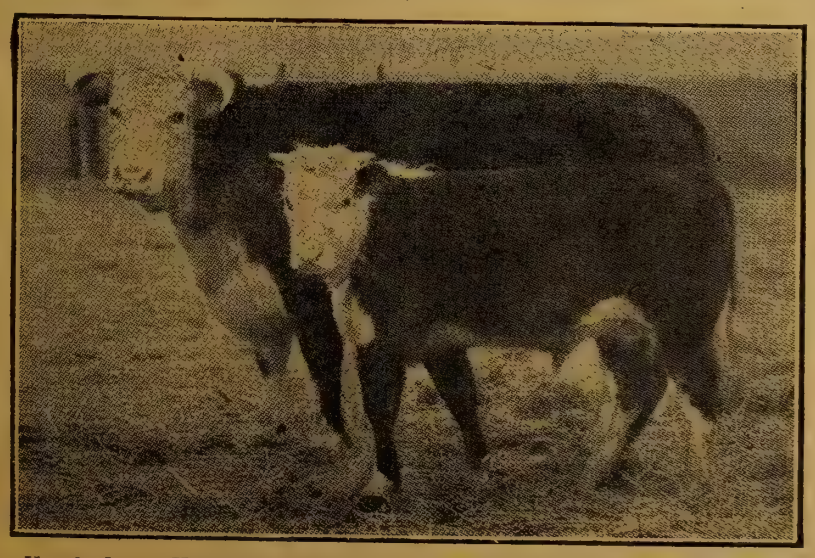
VETERINARIANS PASSING ON STALLIONS.

To the Editor of The Homestead:

In a recent issue of your paper I noticed a small item written by Mr. P. F. Smith regarding the Iowa stallion law, and will say that I have handled stallions more or less all my life and do not recall a single instance when I had an unsound horse, but what the general breeding public knew it. As to the veterinarian's affidavit, I can show you veterinarians who can hardly tell a sidebone from a wire mark and I think it will be some time before the average book-learned student can compete with the average successful horse breeder when it comes to telling the public what to breed to.

I think as Mr. Smith says, that this little money-grabbing scheme has done more to hurt our horse industry than any one thing that ever existed and, to frost this little dessert, I noticed while visiting last summer that about 70 per cent of the horses in Floyd, Howard and Mitchell counties were standing the same as ever without this iron-clad guarantee issued by our unquestionable veterinarian or even themselves, and would like to ask the department of agriculture if these are just some pets, or haven't they heard of this law? I have retired from the business, but say tax all or none. Law is law. James Pratt.

The character of the food frequently influences the quality of the butter. The white hard, tasteless character of winter butter results from the food given. Fresh pasture, bright legume hays, corn silage and soiling crops give color to the milk and to butter. gluten or corn produces a soft butter. Wheat bran makes a harder butter than either. If much of gluten is introduced into a ration the butter will be soft, but its hardness may be improved by the use of cottonseed meal, a feed that makes a very hard butter. By mixing the two a better grade of butter will be obtained than if either is used alone. A pound or two of cottonseed meal when the cows are on pasture helps to counteract the objectionable softness of butter during the pasture season.



Hereford cow Handsome Lady and bull calf. One of the good things included in the dispersion sale of Taylor & Welty, Wanatah, Ind., April 29th.

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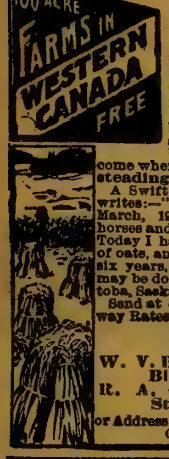

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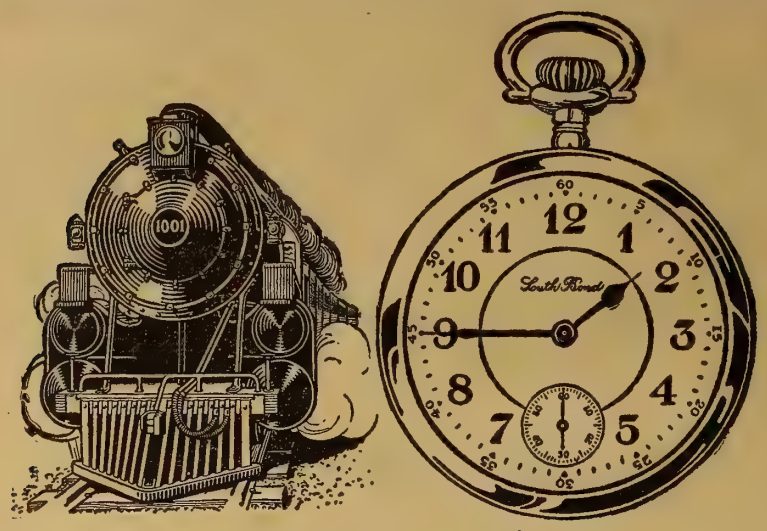

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WITH THE EDITOR.

"Oh, we can afford to stay longer so far as that goes—the trouble is Martha hates to spend the money on the chance of my getting better." The man who spoke was a farmer, at a sanitarium seeking relief for chronic indigestion induced by hasty eating and overwork. "You see money comes slow when you make it on butter and eggs and watching the markets for the rise or the fall of a cent—sometimes of half a cent. It's made Martha close. I was just as bad if not worse until this miserable stomach trouble got hold of me. It's given me an advantage over Martha. It's taught me things she hasn't learned yet."

How many people are like Martha! Where dollars "come hard" they acquire an undue importance. When a man plows and harrows and seeds and cultivates and harvests through all sorts of weather, sometimes with aching back and sometimes with anxious heart it is small wonder that he values the dollars his crops sell for.

In his quaint way David Harum voiced a general experience when he said: "Trouble with me was that till I was considerable older'n you be I had to scratch gravel like all possessed, and it's hard work now sometimes to git the idee out of my head but what the money's wuth more than the things I want."

To have reached "easy street," to have the wherewithal to gratify all reasonable wants, and to grudge spending for anything but bare necessities—what a fate! Alas, that it is one which so often befalls the farmer. It is this which so often accounts for overworked, discontented farm wives, for farm sons and daughters denied proper educational advantages, for shabby little farm houses that never saw paint and contain next to no furniture, for unkempt farm yards devoid of fence or tree or shrub or flower—in a word, for ceaseless grind and the absence of the ordinary comforts and refinements of life.

And how foolish it all is! What is the use of money but to secure the things which add to the happiness of life. To quote David Harum again: "We're here today and gone tomorrow, an' the' ain't no pocket in a shroud." Why not have a comfortable home? Why not take life easier and make it easier for others? Why not?

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

I cannot feel that thou art far,
Since near at need the angels are;
And when the sunset gates unbar,
Shall I not see thee waiting stand,
And, white against the evening star,
The welcome of thy beckoning hand?
—Snowbound.

If you have a friend worth loving love him. Yes, and let him know that you love him, ere life's evening tinge his brow with sunset glow.

It is a good thing to be rich, and a good thing to be strong, but it is a better thing to be loved of many friends.—Euripides.

APRIL.

Under the soft snow blanket
They have slept all winter long
With the stars keeping watch above them
And the winds for their slumber song.
But now the soft rains are calling
The lazy blossoms to rise,
And the sun, as they slowly answer,
Kisses open the sleepy eyes.
—Bertha M. Bemis.

BEFORE LAYING CLOTHES AWAY.

All clothing which is to be stowed away for the hot weather should be put in perfect repair first. Set the necessary patches on the flannels that with mending may last another season, darn the woolen socks and stockings, replace the worn skirt braid on the heavy walking skirt, mend the torn lining of the thick coat and do whatever else is needed to put the garments in complete repair. It may be a nuisance now when the spring rush is upon you, but when the cold weather comes again, and you are in a hurry for warm garments, it will be an unspeakable comfort to find them in good condition.

TO CLEAN WALL PAPER

The only way to clean your wall paper according to a certain woman, is also a new way. Boil a quart of water. Let it get cold. Boil it up again and when quite boiling shave half a toilet-sized cake of pure, fine, white soap into it. As soon as the soap is dissolved and while the water is still almost, but not quite boiling, stir in flour slowly until the whole is a thick paste. Let it cool. If the mixture is not now the consistency of dough add more flour to make it so. Separate it into pieces convenient to handle. Begin at the top of the wall and work down in long parallel strokes. As the mixture becomes soiled fold in the dirty part and begin again with a clean surface.

FOR THE COOK.

Nut Croquettes.—Mix together one cupful of very finely chopped nuts and one cupful of bread crumbs. Bind together with a beaten egg. Form into small balls and encase them in seasoned mashed potato; roll in egg and crumbs and fry in deep fat.

Potato Puffs.—Season two cupfuls of cold mashed potatoes with salt, pepper, celery salt and chopped parsley. Add the beaten yolk of one egg and

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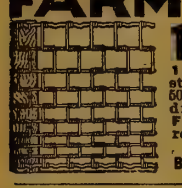

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sufficient milk to make it of the consistency to roll on a well-floured board. It should be one-half inch thick. Cut in circles four inches in diameter; place one tablespoonful or more of well-seasoned, chopped, cold meat, moistened slightly with gravy or stock, upon one-half of each, moisten edges with cold water, fold, press together and fry in deep fat. Serve hot.

Corn Meal Apple Bread.—Sift one quart of corn meal with four tablespoonfuls of baking powder and one-half teaspoonful of salt. Add one-half cupful of sugar, four tablespoonfuls of melted butter and one and one-half cupfuls of water; then beat in one pint of chopped apples. Mix thoroughly and bake in greased pans in a hot oven for twenty to thirty minutes.

AMONG OURSELVES.

With much pleasure I give first place on our program to Mrs. E. J. H. Bedford, who, having eyes to see, delights in the beauties of the springtime:

What a privilege it is to live now, of all times of the year, when the earth is renewing itself. To be sure, this renewing has been going on, silently for many months, but no mortal eye is allowed "behind the scene," until all is ready, then without the pomp and noise and ceremony that usher in men's affairs, we mortals behold one of nature's pageantries. The only heralding is on melodious bird lyres and gauzy wings. But to those who are attuned to nature then it is a most spectacular event. It is only the "opening of the season," in theatrical language. On through May and June, July and August and September, the plot will be developed. There will be changing scenes and nature's drama will not grow monotonous. The choruses and orchestras will produce music sweet and low, to the tune of bird songs and humming bees and rustling leaves. Yes, it is a privilege to live at such a time and especially to live in the country where only this thrilling event can be seen and heard and felt in its full and quiet splendor. I am a farmer's wife—a country woman. In my childhood I revered the sweet and sacred solitude of the woodlands; as I played under the protecting arms of the great trees, or, lying in the grass, in one of those sober moods that come to most children when the great beyond speaks to them, would wish they could speak to me. With a love and a reverence still for the woods and a feeling of awe in listening to the wind roaring in the tops of those great trees, as I listen to it in memory, I now love the glory of the western prairie, also. It seems painful that so many ("having eyes, they see not") can pass through the changing panorama of the seasons and yet find no joy, no content in country life. It is not all poetry, to be sure; very few lives, no matter where lived, are. I would like to speak of this problem in another paper, if I may, but just now there is so much we are about to miss unless we "look up and not down, look out and not in."

Those who miss seeing the springtime pageant miss one of the great sights of the year and one of the most inspiring. We will hope that if any Among Ourselves have been unseeing that they will no longer be so.

Mrs. M. M. Wichita has been thinking about husbands and wives and the pocketbook. We shall hear her conclusions:

I have read in different papers so many articles about husbands' and wives' rights to the pocketbook. I have no complaint to make against my own husband, but from observation some men are not as capable of doing the buying as some women, and vice versa. One woman, a relative, thinks all her egg money is for is just to buy extra dresses for herself and girls; they must have something new for every occasion. Her husband bought the chickens in the beginning and besides they are very poor. He can hardly make both ends meet, where if she would help it would be better. Fashion is all she can talk of. Still another, a neighbor, told me she would rather do without than ask her husband for things, even when she knew he would get them; that was just her peculiar way. I was of that turn, too. Always from a child I would not ask for things, but I have got over that. I just make out my list and tell my husband I need all I am sending for. I generally get it. I think each husband and wife ought to be able to settle these matters. I know lots of men are selfish and mean, even if they are well fixed. A sensible woman isn't going to ask for what she don't need—some don't get that. If we knew how some have to get along we would think ourselves fortunate indeed. A husband and father ought to see that the family have some kind of recreation; let the young folks have a party once in awhile. And do not find fault with them all the time; they will like their home all the better. I agree with Mr. Foote in what he says. I have a family of young people, so I know what I am talking about. I say teach the boys and girls how to buy and they will be better fitted to go out for themselves.

That last remark of Mrs. M. M. Wichita suggests a topic for discussion. We have never talked about the wisdom of giving the young people an allowance with view to their learning the value of money and how best to spend it. Do you think it a good plan, friends? Have any of you tried it? Let us hear from you.

A southern friend, Mrs. S. E. Junkin, of Frank, Ark., kindly comes to give us a canning experience:

I would like to give a statement of our ten-year-old girl who was in the tomato club last year. Each girl had one-tenth of an acre to plant to garden stuff. More planted tomatoes than anything else, but they planted what they wanted and thought most profitable. Our daughter planted tomatoes, beans, cabbage, carrots and quite a lot of small stuff, such as radishes, mustard, lettuce, etc. She canned her tomatoes, beans, cabbage and carrots, beets and okra. She sold $86 worth of canned goods. Cost of cans, $15; profits on one-tenth acre, $71. She had tomatoes in every way you could think of, put up in forty-two different ways. She won the first prize in the Pulaski County Fair and second in the Hot Springs State Fair. Her canner, complete with all necessaries, cost $9, and I will say right here that I could not do without it. It is the most useful article on our place. I find use for it every week in the year. On wash day if I had to give up my canner or my washing machine I would give up the machine. The canner is useful for any purpose you need hot water for. Besides the things our daughter put up we put up about $150 worth of fruits and vegetables from our farm. I can't recall the day when we bought a can of anything, but I could refer you to many cases where we have sold a nice bill of canned goods from our farm. If you want to solve the high-cost-of-living question, that so much is being written about, get a canner of the best make and take care of the waste of your place—that is where the profit of farming goes. We have made a success of canning and would like to offer encouragement to others and would like to have any device that I could give. I would be pleased to help them out.

This is a remarkable and certainly a stimulating story Mrs. Junkin tells us. Supplementing it we shall have a few words from a friend at Mountain Grove, Mo.:

In regard to home canneries: If anyone is interested in same they might write to Mr. A. Ashley, Durant, Miss. (They must say care of Castillion Springs or some other Mr. Ashley will get the letter.) Mr. Ashley has not used a canner, but the former owner's did. Mr. A. bought the farm and cannery and took possession February 4th. I took a car load of horses, mules and household goods from here for him and helped to invoice the goods on hand and among them was a lot of canned goods which were put up with the canner. I counted twenty-eight and one-half dozens three-pound cans of tomatoes and four and one-half two-pound cans of tomatoes. So you see they did a little with it. It was bought for $5, I think they told me.

Our Mountain Grove friend suggested to me privately that those interested in canning would do well to send to the agricultural department at Washington for a new bulletin, No. 52, which deals with this subject. After sending for this bulletin I wish the friends would tell us about it here Among Ourselves.

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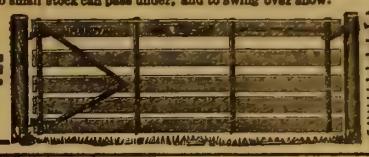

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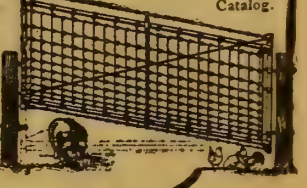

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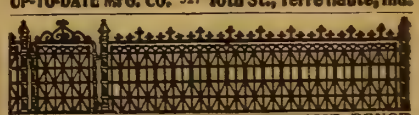

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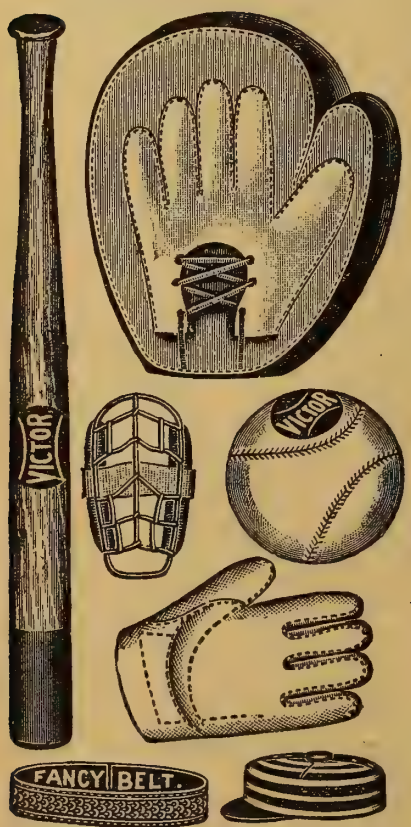

There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

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THE YOUNG FOLKS

Letters and articles for this department should be addressed to Aunt Mary, Hawley, Minn.

A GOOD MAXIM.

When you can't do what you want to do, try to want to do what you can do.

SOME FEATHERED FRIENDS.

One day mama and I walked over to my brother's and on the way home I saw two pretty red birds. They are called the cardinal grosbeak. They don't go much farther north than the southern part of Iowa. There is another bird called the mocking bird, which will mock a cat, and will mock any other kind of a bird. They are brown and they build their nests in hedge rows. They will whistle like one will when calling a dog. There are a great many beautiful birds here. There is a little bluebird that builds his nest in rotten fence posts or old dead limbs of apple trees. When we hear them singing we think it is coming spring. There is a little bird about the size and color of a snow bird, only they have a bright red topknot and a little red on their wings. We call them cedar birds. They come through here every winter, and eat the berries of the wild cedars. That is why we call them cedar birds. We have the jay bird, robin, brown thrush, and once in a while we see a little humming bird flitting among the flowers. The next time I write I will tell you about an old Indian camp east of our place.—Marion Belle, Iowa, age 8.

A Flood Story.

Once when I was about eight years old, we lived by Deer Creek. One day in the afternoon it rained a little there, but farther up the creek there was an awful rain. In the night, papa awoke, and heard the water coming in the room. He called mama, and she got up to see what was the matter, and the water was half way up on the door and was coming in as fast as it could. We all got up and went upstairs, and when we took the bedding off the beds, the slats floated around on top of the water. Papa and my two brothers went out the upstairs door, for we couldn't open the bottom door, and they cut the corral fence and let the stock out; and they ran the buggy out of the shed and up the hill, for it was just ready to float away. After a while the water went down, but in the morning it was still up in the yard. There were some hogs and a horse washed down above the barn into the Little Deer Creek. We heard of lots of damage done by the flood. It washed our house till we had to build another one, and move out across the creek.—Dolly Girl, Nebraska.

A Flight In An Airship.

One evening I was sitting at the piano, playing "Moon Winks," when a fairy came and asked me if I would like to visit the moon in his airship. I consented, and we started, but as we went eight thousand miles an hour, and as I had left my goggles, we had to stop at Mars; but as everybody was fighting there, we hurried on as soon as we had bought the goggles. At last we reached the moon. The fairy introduced me to the "man in the moon," and he introduced me to his wife, the "woman in the moon." The "woman in the moon" gave us a good supper, and when the moon was full we started home, as we could see better. We came home by the "Milky Way," and some of the milk got in the gasoline, causing us to come downward at a rapid pace, striking all of the stars in our way, knocking them down. We caught sight of some lovers on Venus as we flashed by. When we hit earth the fairy said it would kill us. But as we hit a straw stack, it did not kill us, but stopped our watches, and caused a great earthquake. The shock awoke me, and I found myself sitting at the piano playing "Moon Winks." I had not been in an airship, but had been having the nightmare.—Bruce Douglass, Ohio, age 15.

Earn an honest reputation for making first-grade butter, and see if there isn't a ready sale for every pound you possibly can produce, and at a big profit, too!

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

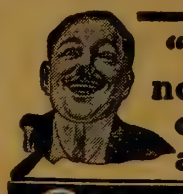
2dQuar. Lesson 4, Gen. 37: 23-26. April 27, 1913.

JOSEPH SOLD INTO EGYPT—THE STORY.

The inevitable consequences of polygamy were upon Jacob. Even the blessing at Jabbok could not avert them. That experience, no doubt, made the patriarch more patient under his extremely trying circumstances. But his home, if it deserved the name of home at all, was rent with jealousy. Four wives and four sets of children kept the camp in pandemonium. Under the most favorable circumstances the rearing of twelve sons is an operose task. At the very time Jacob should have been giving his undivided attention and strength to it, he seems to have been chiefly engaged in outwitting Laban and accumulating a fortune. The result was he had a lot of unruly, wicked boys on his hands. On the dark background of this polygamous household the pure and artless character of Joseph emerges with most pleasing effect. He was the son of Jacob's later and better days. He was taken away soonest from the degrading influences of Padanaram. He was chastened by the greatest grief that can befall a young heart, a mother's death. The very frequency with which his surroundings changed was calculated to cultivate the devout spirit. From the thorny and thistly sons of Jacob grapes and figs could not be expected. All were rude, treacherous Bedouin. The gentle and pure character of Joseph was a standing stricture upon them. They were envious of his impending honor; ready to cry as their descendants afterwards did: "We will not have this man to reign over us." They nursed their jealousy until it reached the size of murder. Joseph had come to them on an errand of love from his father. It was a long and perilous journey from Hebron to Dotham. There were Bedouin and bears in the way. He had brought his brothers good viands. If there was to be any criticism of their conduct on his part, direct or indirect, it would be just, for their real advantage. But they allowed themselves to be moved with envy. Their utter heartlessness is shown in that they could sit down to the very banquet he had brought them, and eat it in sound of his wailing voice. There is an explosive power in a new vice as well as in a new virtue. Murder is ousted by avarice. The sight of the approaching trading caravan suggests the possibility of making merchandise of this obnoxious brother. A moment later they gloat over their two silver shekels apiece, and see their kinsman according to the flesh depart to ignominious and hopeless servitude. Naked and under a burning sun, with an iron collar about his neck and a lash upon his back, the heir of all the promises departs from the very land he was to have inherited. The prince is metamorphosed into the slave, Canaan exchanged for Egypt. From the human angle all is lost; but

God moves in a mysterious way,
His wonders to perform.

At the Kansas Agricultural college a secondary school of agriculture, mechanical arts and home economics will be established next fall to articulate with the eighth grade of the public school. A three-year course will be offered and a fourth year for those desiring to enter college.



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You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

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I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

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5501 Ladies' Six Gored Skirt.—This skirt is cut in six gores and has the closing at the left side of the back. There is a double under box plait at the lower part of each side seam and a forward turning plait at each side of the back gore.

The pattern 5501 is cut in sizes 22 to 30 inches waist measure. Medium size requires 4¾ yards of 36-inch material. Price of pattern, ten cents.

5630 Ladies' Apron or House Dress.—This garment can be used as a house dress or an apron. It closes at the left side of the front. It is made with low neck and short sleeves. Gingham, percale, chambray or linen can be used to make this garment.

The pattern 5630 is cut in sizes 32 to 42 inches bust measure. Medium size requires 5½ yards of 36-inch material with ¾ yard of insertion. Price of pattern, ten cents.

3869 Children's Sack Apron.—This apron is just the thing for the small child as it completely covers the dress. It can be made with high or low neck with long or short bishop sleeves. Gingham, linen or percale can be used to make this apron.

The pattern 3869 is cut in sizes 1, 3 and 5 years. Size 3 years requires 1⅞ yards of 36-inch material. Price of pattern, ten cents.

6032 Ladies' Dressing Sack.—This dressing ack can be made with either long or hort sleeves. Any of the pretty wash materials can be used to make this garment withthe trimming of cont rasting material.

The pattern 6032 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2⅞ yards of 36-inch material with ⅞ yard of 27-inch contrasting goods. Price of pattern, ten cents.

4142 Ladies' Corset Cover.—This corset cover is designed for flouncing. It has the V-shaped neck, front and back, and is made with a seam at the center back. Longcloth or muslin can be used to make this corset cover or it can be made of embroidered flouncing.

The pattern 4142 is cut in sizes 32 to 44 inches bust measure. Medium size requires 2 yards of 16-inch flouncing. Price of this pattern, ten cents.

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SECRET OF RURAL SUCCESS.

Glowing preliminary reports on the inquiry being made into the rural school system of Denmark were received by the United States Bureau of Education from its investigators. Prof. Harold W. Foght, of the bureau, accompanied by W. H. Smith, of Mississippi, and L. L. Friend, of West Virginia, is engaged in touring Denmark. He says the remarkable development of the country along agricultural lines is due to the education of not only the children, but the adults as well.

Denmark's "folk high school" system is given chief credit for the development. In these schools men and women are given opportunity to take up vocational studies eleven days in each month throughout the year. Other schools are maintained for the education of small farm owners, the principal studies being horticulture and kindred branches of agriculture suitable to intensive work.

In its statement the bureau says that Professor Foght's first-hand investigation in Denmark is only part of a widespread investigation that is being made into the question of rural schools. There are now three specialists at work in the United States carrying on the inquiry, their fields of action being so divided that the country is covered thoroughly.

OPINIONS ON CENTRAL HOG HOUSE WANTED.

To the Editor of The Homestead:

As I am going to build a double hog house 18x36 for brood sows I would like to hear from some brother farmers, who have built one like the one I contemplate, through this paper.

My plan is to build the walls of building tile, the floor of cement with a four-foot alley running through the center lengthwise of the building and a small gutter at each edge of alley. By giving the pen floors one inch slant the pens could be scrubbed and the water drained off into the gutter. I would also build a cement trough in each pen and at the end of the building a cement dipping tank.

Will some farmer who has a hog house like this tell me whether it is satisfactory or not?

Fred Massure.

Ask your neighbor to subscribe to The Homestead.

A Long Hot Arc Flame

Your New Engine —should be equipped with an Elkhart Magneto if it is to give you its best service. A magneto on a gasoline engine is necessary for proper ignition of the fuel mixture. Elkhart Magnetos make good engines give better service. Insist on having one on the engine you buy.

Starts the Engine On 50 R. P. M.— One turn of the crank will make a big spark, sufficient to start the engine. Elkhart Magnetos are dependable as the sole source of ignition.

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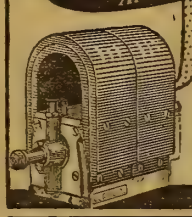

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Always ready for use. Placed inside the crib in the dry. Easy running, durable and strong. Elevates oats, wheat, or ear-corn, 50 bushels in three minutes.

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Selling the newly patented Brandt Cigar Lighters Is operated with one hand; gives an instantaneous light every time the button is pressed. No electricity, no battery, no wires, non-explosive. Strikes a light without the aid of matches. Lights your pipe, cigar, cigarette, gas jet, whenever and wherever wanted. Works with one hand and never fails. Something new Big demand. Everyone wants one. Write quick for wholesale terms and prices. O-K. Brandt Lighter Co., 42 Hudson St., N. Y. City

European Farm Finance.

AGRICULTURAL credit in Europe is divided into two general subdivisions: first, mortgage credit and second, personal credit. The institutions belonging to the first subdivision are of two classes, the first of which is best typified by the Credit Foncier de France, and the second by the Landschaften of Germany. The institutions belonging to the second subdivision are of three classes, the first of which is best typified by any of the ordinary credit banks, the second by the Raiffeisen and Schulze-Delitzsch banks, and the third by the Credit Agricole of France.

There are, of course, in Europe numerous agricultural banks having characteristics somewhat different from those of the above mentioned institutions, but in the main the institutions included in the above outline constitute the real basis of agricultural credit organizations in Europe and all other agricultural banks are very largely patterned after them.

The Credit Foncier de France, in addition to certain activities that are not strictly connected with agriculture, loans money on farm mortgages for long periods of time on an amortization basis. The chief advantage to the farmer is in the fact that he is allowed to pay off his loan by making small semi-annual payments, will never have to renew the mortgage, which will continue to run until the semi-annual payments have cleared the farm of debt, will never be compelled to pay any renewal commissions, will never have to go to the expense of bringing down his proof of title or having it examined every few years, as under American system, and in addition will be largely relieved of any anxiety lest he fail to meet the mortgage when due and consequently lose the farm. The Credit Foncier holds these mortgages as collateral for its debenture bonds, of which it obtains the funds to advance to the farmers. The Credit Foncier, while under the supervision of the government, is nevertheless a privately owned joint stock company and pays regular dividends on its capital stock. The rate of interest which is charged to the farmer is not as low as has sometimes been stated in America, where attention has been called to the fact that the Credit Foncier issues bonds bearing 3 per cent interest.

The Credit Foncier 3 per cent rate is due to the fact that the bonds carry with them a lottery feature by which each bondholder has a chance to win a prize consisting of a large sum of money, but the cost of these prizes increases the actual cost of the bonds to the Credit Foncier from 3 per cent up to about 4 per cent and the money is then loaned to the farmer at 4 3-10 per cent. Therefore, the farmer does not get 3 per cent money as is oftentimes stated.

The Landschaften banks of Germany loan money to farmers on much the same basis as that employed by the Credit Foncier of France except that they do not make a practice of paying a farmer cash for his mortgage. They simply exchange their debenture bonds with the farmer for his mortgage and the farmer then sells the bonds himself. The Landschaften are under the supervision of the government and are strictly co-operative organizations involving in many instances the unlimited liability of the members, and not being operated for a profit or paying dividends.

Attention has been called in America to the fact that the Landschaften sometimes issue bonds bearing a rate of interest as low as 3 1-2 per cent, but in actual practice this Landschaften 3 1-2 per cent rate costs the farmer considerably more owing to the fact that the Landschaften do not pay the farmer in cash, but merely exchange their debentures for his mortgage and he is then compelled to sell the 3 1-2 per cent debenture bonds below par. The money consequently costs him more than 3 1-2 per cent.

The ordinary form of credit bank is operated on much the same general plan as the ordinary commercial bank in America. It loans to farmers for fairly short terms on the same general conditions as in our country. These banks are privately owned joint-stock institutions and would doubtless be able to do much toward financing the farmer for his needs were it not for the fact that the European banking methods have led to the present existence of but a comparatively small number of ordinary credit banks. These banks are usually large institutions extending over a considerable territory and are not small independent community banks as in the United States.

The rate of interest charged by them follows to a considerable extent the ups and downs of the money market.

The Raiffeisen and Schulze-Delitzsch banks are small community institutions organized on the co-operative plan and not operated for profits. The Raiffeisen banks operate more particularly in the country and are purely co-operative, while the Schulze-Delitzsch banks operate more particularly in urban communities and are a somewhat modified form of the purely co-operative type. These banks oftentimes have behind them the unlimited liability of all their members, and they accept deposits allowing interest thereon and loan the money to their members for fairly short periods of time. Each one of the co-operatively owned local banks usually belongs to a co-operatively owned central association which exercises a control over the entire organization, acting as a sort of clearing house and central bank.

The rates of interest charged by these banks depend largely upon the rates of interest paid on savings deposits in each particular locality, for they must, of course, meet competition in order to get the business. While as a general thing they are not able to obtain funds at a cheaper rate than other institutions, nevertheless they are able to loan these funds at a somewhat better rate than other institutions, owing to the fact that their expenses are very light, their officers usually serving without salary, and due to the further important fact that they are co-operative organizations and are not operated for profits.

The Credit Agricole of France consists of a large number of co-operatively owned local banks which are affiliated with regional banks to which the government advances certain sums of money without interest. The regional banks, which are co-operative in character, lend this free money to the local banks at a low rate and they in turn loan to the farmer. These banks are not operated for the purpose of earning dividends, are in many cases safeguarded by the unlimited liability of their members, and furnish the best European illustrations of state aided agricultural credit.

Attention has been called in America to the Credit Agricole 3½ per cent interest rate, and it is an actual fact that these banks really loan money to farmers at 3½ per cent, but this is due to a government subsidy and would be looked upon as abnormal, from the standpoint of Americans. The government has compelled the Bank of France to furnish it a large sum of money without interest, to be used for the advancement of agriculture, and as outlined in the above brief explanation of the Credit Agricole, the government loans this money to the branches or regional banks free of interest. These regional banks loan to local banks at 3 per cent and in some parts of France the local banks loan to the farmer at 3½ per cent. This system is deplored by many leading bankers in France as tending to develop a false idea of the value of credit and is liable to discontiuation some time in the future. Furthermore, some of the individual banks of the Credit Agricole system occasionally exhaust all of the money that has been allotted to them by the government and in order to continue the extension of credit they are compelled to rediscount farmers' notes with the Bank of France, and as they are loaning to the farmer at 3½ per cent and sometimes rediscounting with the Bank of France at a higher rate, it follows that the more business they do under such conditions the larger amount of money they lose, and this is an unreasonable and unsatisfactory foundation for any system of banking.

This, in condensed form, is the story of farm finance in Europe, and our people here in America cannot do a greater national service than to study carefully and push forward this great question of farm finance, which concerns so directly the financing of the "back to the soil" movement, which in its turn is fundamental and concerns vitally the future prosperity of our nation.—[Geo. Woodruff before Farm Credits Conference.

SUNFLOWERS FOR SHADE AND FEED.

To the Editor of The Homestead:

We plant some sunflowers every season, and find a variety of uses for them. Plant as many in a hill as you like, but two strong plants are sufficient in each hill, and even then the hills should be three or four feet apart. Where they are planted closer, they are apt to kill out, especially in dry weather.

Our sunflower patch is planted as above directed, cultivated practically the same as corn, and when the heads are well filled, the stalks dying, and the grain ripe enough to shatter out well, we go through the patch, clipping the heads off with a corn knife and piling them or tossing them into the wagon. They are then hauled to the house as a feed for the poultry.

The heads are spread out well in some sheltered place or strung on baling wire to cure out, as they are quick to mold and rot if placed in large piles where they heat. The stalks we also cut and haul to the house, after they have cured in the field. They are used for bean or pea trellis, for sticking in the ground and making chick feed coops, and the larger ones for firewood. They are especially fine for kindling fires.

Other uses are made of the sunflower. We sometimes plant them around the edge of the garden for an ornament, and when ripe, clip the heads off for feed. Planted a little in advance of bean-planting time, their stalks make fine, natural supports for the vines. Our patch usually is close enough to the poultry buildings for the poultry to use the ground for a run, and as the leaves are very broad, such a shade is most welcome and beneficial in the heat of summer; while the poultry droppings are well scattered over the ground.

It is best not to shell out the seeds if one has a place where the heads can be left whole. This is our plan, and when we are ready to feed them to the poultry, the heads are thrown out with the seeds in them, and the "biddies" have to work for their feed. We also feed the seeds to live stock, a handful or two for each animal. The seeds are very rich and nourishing, being especially fine for calves and colts, giving their hair a glossy color. They are of an oily consistency and act as a laxative; so should be fed with discretion, and only two or three times a week, or in very small quantities if given daily.

Cole Co., Mo. M. Coverdell.

An ear of corn should be cylindrical in shape, have straight rows of regular-shaped kernels. The ear will taper slightly toward the tip; one that tapers toward the butt is very objectionable. It should be full all the way from butt to tip, the dropping of rows being considered a serious fault.

Don't say that you're too far away
To come to Geneva on the 1st of May.
Stop the planter, lay off a day
And buy a Holstein da-i-ray.

When writing to advertisers please mention The Homestead.

Jackson "Olympic"—$1500
Four cylinders, 35 horsepower; unit power plant; long stroke motor, 4⅛ x 4¾-inches; 115-inch wheelbase; 34 x 4-inch tires. Complete equipment, including Disco starter. Black and nickel trimmings. Electric starter and lights, optional $225 extra.

"Majestic", four cylinders, $1975 "Sultanic", six cylinders, $2650

Jackson comfort more than merely soft cushions

We believe in deep upholstery and soft cushions; and we put them in our cars.

But we know—by virtue of eleven years of experience—that these are not the beginning and the end of real automobile comfort.

And we have done the best this long experience has taught us to put real comfort into Jackson cars.

The secret lies in engineering ability and engineering design.

Spring suspension, distribution and balance of weight, length of wheelbase, wheel size, all influence the car's riding qualities.

Jackson springs are all full elliptic, they ride 33 to 100 per cent easier than other types.

Jackson seat cushions are 10 inches thick; they are tilted slightly toward the rear. The seat backs reach to your shoulders.

Jackson wheelbases are long; and the wheel sizes are correctly proportioned.

All that engineering ingenuity can do to make the car ride easily, has been done in the Jackson.

Your problem is to chose the most comfortable car.

Write for the Jackson catalog and dealer's name.

Then ride in the car and your problem is solved—for you will find the Jackson car the most comfortable car you ever sat in.

JACKSON AUTOMOBILE CO., 1420 E. Main St., JACKSON, MICH.

Rogers' Hereford Sale.

Another very successful Hereford sale has been added to a long list of successful ones for the season and another sale reflects credit on W. N. Rogers, McCook, Neb., who is the gentleman that was largely responsible for the success of the sale made under his management at South Omaha, on April 16th. It seems almost out of the question to impress all consignors to a combination sale with the importance of listing only such cattle as are in salable condition. The fact that the cattle listed by two or three contributors were quite thin and in some instances undersized, made a very material difference in the average. Demand for the attractive sorts was very strong. The Rogers' consignment averaged about $250 per head. Mr. McNerny, Coin, Iowa, had four young bulls in the sale that sold for $1,060 which clearly indicates the demand that is apparent for good "White Faces." Thompson Bros., West Point, Neb., consigned a bull that topped the sale at $530. This bull was listed so late that he was not cataloged, which probably detracted somewhat from the price he should have brought. He was a very choice bull. Col. Callahan conducted the sale, assisted by Col. F. J. Zaun. Those selling for $100 or more are listed as follows:

BULLS.

Nero, calved 1912; Henry Rastede, Emerson, Neb. $140
Kitchner, calved 1911; John Frasuer, Grand Island Neb. 285
Cyrus, calved 1911; C. A. Cook, Wahoo, Neb. 235
Strathcona, calved 1912; J. C. Osborn, Meadow Grove, Neb. 355
Gladstone, calved 1911; Will H. Wood, So. Omaha, Neb. 185
Carlos Milton, calved 1912; Geo. D. Harrah, So. Omaha, Neb. 100
Taft, calved 1912; E. P. Miller, Hooper, Neb. 125
Duke, calved 1911; Herman Nelson, Oakland, Neb. 185
Busy Bee, calved 1911; C. A. Moss, Winner, S. D. 105
Polled Victor, calved 1911; F. J. Kromas, North Bend, Neb. 155
English Princeps, calved 1911; Will H. Wood 205
Champ, calved 1912; Chas. Kirschmer, Pierce, Neb. 135
Princeps Archie, calved 1912; F. W. Kay, Minden, Iowa. 120
Gay Donald 27th, calved 1911; Guy Swabb, Murray, Iowa. 410
Jasper Donald 2d, calved 1909; J. G. Kemp, Harlan, Iowa 225
Real Prince, calved 1911; Unitt & Son, Seward, Neb. 230
Sir King, calved 1910; A. A. Vanarsdol, North Bend, Neb. 185
Jasper Donald 3d, calved 1911; E. A. Luce, Osceola, Iowa. 250
Donald Grove, calved 1911; Bomberger Bros., Parks, Neb. 170
Don Donald, calved 1911; W. C. Wollen, Weeping Water, Neb. 140
Merry Real, calved 1912; T. J. Hartnett, Jackson, Neb. 230
Lanthus Manager, calved 1912; W. A. Miller, Prescott, Iowa. 285
Don Real, calved 1912; Will H. Wood 170
Ted R. 27th, calved 1911; E. P. Miller 230
Wilson, calved 1912; J. P. Lynn, Tarkio, Mo. 105
Farmer Brown, calved 1911; J. P. Lynn 110
Royal, calved 1911; C. H. Polk, Sidney, Iowa 250
Real New Year, calved 1912; T. J. Hartnett 200
Wellington, calved 1911; E. P. Miller 150
Bertha's Real, calved 1911; F. Wayne, Harlan, Iowa. 300
Deal Wilton, calved 1911; F. H. & H. W. Hancock, Manilla, Iowa. 200
Polled Andrew, calved 1910; E. P. Miller 150
Lanthus Real, calved 1911; L. F. Voss, Schuyler, Neb. 215
Horace Wilton, calved 1909; Bomberger Bros 190
Mapone, calved 1912; Will H. Wood 122
Nebraska Special, calved 1911; N. C. Peterson, Dannebrog, Neb. 260
Monone, calved 1912; J. P. Lynn.. 102
Beau Mischief 33d, calved 1910; M. J. Beacon, Waterbury, Neb. 210
Beau Mystic 39th, calved 1909; Elmer Brown, Funk, Neb. 350
Lot No. 74, Schinstock Bros., West Point, Neb. 530

COWS.

Miss Chesterfield, calved 1908; Geo. D. Harrah 120
Bonnie Maid, calved 1902; Geo. D. Harrah 100
Venice, calved 1908; R. P. Clark, Brayton, Iowa 162
Lady Queen, calved 1911; R. P. Clark 120
Mattie Hesiod, calved 1904; O. J. McCullough, Clarke, Neb. 120
Penelope, calved 1907; Ben Broughton, Lake View, Iowa. 215
Netta, calved 1909; C. H. Polk.... 142
Anna Belle, calved 1907; C. H. Polk 130
72 head ....$11,628; average....$161.50

West & Sons' Horse Sale.

A striking example of the effect that unjust legislation may have on the live stock industry was clearly demonstrated at the recent sale of Percheron and Belgian stallions and mares advertised to be held by Frank S. West & Son, Wood River, Neb., April 17th. For the past couple of years Nebraska horsemen have been laboring under what is probably the most drastic and harmful legislation regarding the horse breeding industry of any state in the Union. This legislation has had the effect of defeating most effectively the very conditions it sought to remedy. So far-reaching in its effect had it become that it was almost out of the question to sell first-class stallions at such prices as they deserved. This law had been enjoined by Nebraska horsemen and declared unconstitutional by the supreme court of that state. Stockmen had taken new heart, as it were, and were laying plans for bettering and extending the pure-bred industry within the state. With seeming assurance that their troubles along this line were ended, many Nebraska horsemen turned out for the West & Sons' sale only to find that the day previous another bill, almost identical with the old one, had passed the Nebraska legislature. When the fact became generally known among the prospective buyers there was not a Nebraska man who wished to purchase. A few mares, however, were sold to a Kansas buyer and one stallion to a Missouri buyer, after which the sale was discontinued. Such examples as this one should cause our legislators not alone of Nebraska, but other states as well to consider very carefully such bills as are menacing the live stock or farming interests, being careful to assure themselves that such legislation is really needed, that it will really exert a beneficial influence on the live stock or farming industry and last, but by no means least, assure themselves that the farmer constituents really wish such bill or bills. The live stock industry of the United States as it stands today is legislated to death. Farmers and stockmen are called upon to assist in paying a lot of fat salaries to different inspectors and commissioners, etc., when all this work might easily be handled by the different state live stock sanitary commissions working in harmony with the National Bureau of Animal Industry.

The Escher Angus Sale.

The sale of Chas. Escher & Son at their noted Longbranch Farm on April 16th, proved a great drawing card and the attendance was very good, notwithstanding it came in a very busy time of the year. The average of $284 on sixty-one head is the highest of the year, and the buyers present certainly got the worth of their money. The cattle were in nice condition and were well received by those present. At the earnest solicitation of many of the most prominent breeders present they consented to offer their great young first-prize bull, Bromo, and after some very spirited bidding he was knocked down to R. W. Franks, Renwick, Iowa, at $1,130. Mr. Franks certainly got a great bull in this fellow. He is by long odds the greatest young bull that has been offered in a public sale in many a day. He is an Erica-topped Blackbird, sired by Imp. Earl Eric of Ballendalloch. The top of the females was Imp. Erora, one of the best daughters of Interdict and one of the best breeding cows in the herd and she went to Walter Hurdle, Holly Springs, Miss., at $530. There were a great many good cows in this sale and when your remember that thirty-five head of these had calves at foot you can easily figure it out that the buyers secured good bargains. Another feature of this sale was the number of new buyers that were after cattle. It is one of the most hopeful signs to the breeders of all kinds of cattle and it bespeaks good things for the future of the business for many years to come. A feature of the Escher sale that was out of the ordinary was the presence of Mr. John Boles, Chicago, the well-known commission man who sold Advance, as well as the Escher steers at Pittsburgh and Chicago and he made an opening speech that was replete with optimism regarding the future of the cattle business in the country. It was a speech that was worth listening to because it was full of meat and it uncovered an orator or no mean ability and what he had to say had a very decided bearing on the sale. Col. Igo opened the sale and was at his best and was ably assisted by Col. Kraschel, both in the ring and on the block, and Johnny Boles and Marion Armenstrout were also in the ring. We list herewith the entire offering:

BULLS.

Bromo, calved September, 1911; R. W. Francks, Renwick, Iowa. $1,130
Elict, calved July, 1911; Walter Hurdle, Holly Springs, Miss. 205
Egregious, calved November, 1911; John Kieley, Toledo, Iowa 220
Eustis, calved April, 1912; C. R. Snow & Son, Keystone, Iowa and George Studt, Luverne, Iowa 270
Egle Eric, calved August, 1911; R. R. Pottock, Akron, Iowa. 200
Blueblood Lad, calved January, 1912; C. F. Kirk, Morris, Minn. 180
Beaumont E., calved March, 1912; W. S. Austin, Dumont, Iowa. 220
Berkley, calved May, 1912; Felix Setz, Oakland, Iowa. 200
Kibby, calved April, 1912; Dan Terrill, Harlan, Iowa. 135

FEMALES.

Imp. Eldora, calved January, 1908; John Kieley. 305
Imp. Etroclus, calved February, 1908; John Kieley. 380
Imp. Eldina of the Dell, calved December, 1907; John Kieley. .. 440
Imp. Erica 6th of Keillar Park, calved May, 1902; Roberts & Williams, Atlantic, Iowa 475
Imp. Erora, calved December, 1900; Walter Hurdle 530
Erora of Maple Grove, calved June, 1905; F. W. Schoede, Yates Center, Kan. 380
Etro Ciet, calved October, 1910; O. R. Stevenson, Quimby, Iowa. 240
Eildina E., calved July, 1910; Silas Igo, Indianola, Iowa 275
Glen Eyrie, calved October, 1909; Felix Setz 300
Canton Entoria, calved January, 1911; Felix Setz. 320
Canton Etoira, calved December, 1910; J. W. Hanna, Tarkio, Mo. 355
Erica 11th of Lincoln Park, calved May, 1908; L. O. Amudson, Radcliffe, Iowa 195
Erica 17th of Lincoln Park, calved May, 1909; Roberts & Williams 200
Erica 18th of Lincoln Park, calved June, 1909; Felix Setz. 240
Erica 19th of Lincoln Park, calved June, 1909; Felix Setz. 265
Erica 20th of Lincoln Park, calved November, 1910; Roberts & Williams 250
Homedale Blackbird 4th calved August, 1904; John Kieley. 300
Afton Blackcap, calved October, 1904; John Kieley. 475
Blackbird 3d of Creston, calved December, 1904; M. A. Martin, Wall Lake, Iowa. 290
Blackbird of Cherokee 39th calved November, 1909; Roberts & Williams 295
Homedale Blackbird 11th, calved September, 1908; F. W. Francks Renwick, Iowa 305
Blackbird of Cherokee 14th, calved September, 1903; W. S. Austin, Dumont, Iowa. 340
Black Beauty's Belle, calved March, 1906; Felix Setz. 175
Blackbird of Alto 3d, calved April, 1908; Roberts & Williams. 300
Blackbird HcHenry 90th, calved March, 1910; C. H. McMillan, Lohrville, Iowa 215
Blackbird of Lincoln Park, calved March, 1909; J. W. Hanna. 280
Blackbird of Arndale, calved June, 1904; J. W. Hanna. 180
Alfalfa Blackbird 7th, calved April, 1909; White Bros., Perry, Iowa 265
Blackbird Lassie 14th, calved September, 1905; W. D. McCarthy, Guthrie Center, Iowa. 235
Blackbird Beulah, calved March, 1906; Jas. G. Jorgensen, Kimballton, Iowa 140
Blackbird Jessie 2d, calved March, 1910; Carl Rosenfeldt, Kelly, Iowa 295
Dolly Blackbird 20th, calved October, 1908; J. W. Hanna. 155
Imp. Kimona of Moncur, calved March, 1905; Roberts & Williams 300
Imp. Kathleen of Finlarig, calved January, 1908; John Kieley. 300
Krishua of Cherokee, calved June, 1903; P. Abrahausen, Lanesboro, Minn. 200
Kandoce 2d, calved March, 1910; J. W. Hanna. 205
Proud Katherine 4th, calved June, 1909; Felix Setz. 255
Pride 4th of Five Gates, calved January, 1907; Felix Setz. 300
Karamo, calved May, 1907; F. W. Slaughterback, Guthrie Center, Iowa 175
Pride McHenry 77th, calved December, 1908; C. J. Martin, Adaza, Iowa 220
Imp. Elsie of Butterstocks, calved March, 1900; J. W. Hanna.. 210
Pola, calved November, 1907; W. S. Austin, ... 300
Parthea, calved September, 1904; C. H. McMillan, Lohrville, Iowa 205
Pride 7th of Lincoln Park, calved May, 1909; O. R. Stevenson 290
Pride 42d, calved July, 1909; Felix Setz 170
Pride of Spencer 8th, calved December, 1906; F. W. Schoede. 295
Floretta of Cherokee, calved October, 1903; Otto Battles, Maquoketa, Iowa 180
Victoria of Maple Leaf 5th, calved April, 1903; John Kieley. 295
Queen 5th of Lincoln Park, calved May, 1905; Felix Setz. 295
Queen 7th of Lincoln Park, calved May, 1906; Felix Setz. 170
Canton Queen W. 2d, calved June 1910; Felix Setz 240
Honey Bloom of Leawynde, calved May, 1905; P. Arbrahausen.... 170

SUMMARY.

9 bulls ....$ 2,760; average....$306.66
52 females . 14,005; average.... 272.00
61 head .... 16,755; average.... 284.00

CROP ROTATION RESULTS.

The North Dakota Experiment Station reports that a crop planted continuously to wheat for twenty years averaged a little over thirteen bushels, while the average yield of wheat on all the plots in the rotation experiments was nineteen bushels. Wheat after corn yielded seven and three-fourths bushels more the first year than wheat after wheat—the second year seven and a half bushels more and the third year two and a half bushels more. These results were for corn in hills. Wheat following drilled corn (rows six inches apart) gave a less yield than wheat after wheat the first year. The second and third years the increase was about the same as after corn in hills. Manure applied to corn in a four-year rotation with wheat gave an increase in yield. The value of this increase amounted to $1.40 per load of manure. When applied to millet in a similar rotation the increased value of crops amounted to $1.65 per load. The rotation of crops proved disastrous to weeds. Wild oats, for instance, in continuous wheat growing made up one-half of the crop. When a crop of millet, timothy or fallow was introduced every fourth year the wild oats were a negligible quantity.

A flood loss of $250,000,000 was suffered and 200,000 persons were made homeless in the Mississippi Valley in 1912.

Ask your neighbor to subscribe to The Homestead.

Russell's Holsteins will change your feed
Into the dollars that you much need.
They'll enrich your meadow and start the clover
And soon your farm will be rich all over.

CHINAWARE Direct from manufacturer to consumer. Save 50% by our new plan of selling china direct; Write today, Century Specialty Co., Dept. C, 320 No. 19th St., Omaha, Neb.

"I Want A Small Light Tractor — One I Can Operate Alone"

That's what a prospective customer in Iowa wrote us the other day. Continuing, he said: "I just noticed from your ad in one of the farm papers that you are putting a small tractor on the market, and am anxious to get your catalog describing same. I have several catalogs of small tractors, but most of the concerns who are making them are new at the business and many of them are building only experiments."

This shrewd farmer is evidently familiar with Hart-Parr Quality and Service. Chances are he'll invest in a Hart-Parr "27"—the small, light tractor designed for 160 to 320 acres. It meets medium power needs.

With the Hart-Parr "Self-Lift" Plow (see illustration), it's a strictly One-Man Outfit. Plow is operated by a rope on the clutch lever. You run the entire outfit from the engine platform. Tractor is nearly all steel, strong but light. "Self-Lift" weighs one-third less than any other. Outfit will not sink and mire in soft soil.

Plow has independent self-lift and hand-lift attachments. Strongly constructed, with large clearance, light draft, no gears to clog or break. Special spring beam coupler enables bottoms to readily pass over or skid around obstructions and immediately return to line of draft.

Tractor takes the place of 12 sturdy horses, uses cheapest fuels at all loads and is oil cooled. You can use it for all kinds of work requiring power, from breaking sod to grinding feed.

Write for Special circulars describing both outfits.

HART-PARR CO.
228 Lawler St.
Charles City
Iowa
77

THERE IT IS

NEW LAWS FOR IOWA FARMERS.

(Continued from page 8.)

of bees for delivery to any Iowa points unless they carry with them a certificate from the state or government inspectors. Violations of either provision of the new law impose a fine of not less than $25, nor more than $100.

COMMERCIAL fertilizers must pass inspection by the state dairy and food commissioner hereafter and each brand offered for sale inside the state must pay a state license fee of $20. Every commercial fertilizer offered for sale and selling for more than $3 a ton must bear upon each package a tag plainly setting forth the weight, the name and residence of the manufacturer, the ingredients of which it is made (including the filler, if any,) and the chemical analysis plainly stating the proportion of nitrogen, potassium and phosphorus. Any fertilizer offered for sale without being thus labeled and without the advance state license being paid is subject to a fine.

THE use of tobacco in any and all forms by any pupil of any public school is absolutely prohibited, under penalty of suspension or expulsion.

THE sum of $500 a year for the next two years is appropriated for further experiments in the cross breeding and selection of fruits and edible nuts, under the direction of the state horticultural society, at the experiment station at Charles City directed by Charles G. Patten.

THE board of supervisors of any county which has a county agricultural society and a county fair may, at any regular election, authorize a vote upon the question of a special tax not to exceed $1,000 a year for not to exceed ten years, to be spent for new buildings or other permanent improvements on the county fair grounds, or to pay debts contracted for new buildings or such permanent improvements.

ANY ditch, drain or water course which is constructed so as to prevent the surface or overflow water from adjacent lands from entering the same is held to be a public nuisance and can be abated as such by the ordinary process of law. Any person obstructing or impeding, without due legal authority, any ditch, drain or water course or breaking down any levee or canal, is held to be guilty of a misdemeanor and may be fined.

THE minimum speed at which stock trains must be moved is placed at twelve miles an hour, while no train may consist of more than fifty cars. The burden of proof as to speed is placed upon the railroad, the new law reading thus: "The burden of proof that cars of live stock are so moved shall be upon the carrier and proof that such cars were moved according to schedule or time table shall not be prima facie evidence that they were moved at the highest practicable speed consistent with reasonable safety."

COUNTY boards of supervisors are authorized to purchase or condemn not to exceed five acres of land, within the county limits, at any one place, for the purpose of obtaining gravel or other material suitable for road building and improvements, the tract thus bought or condemned to be paid for out of the county funds.

PROVISION is made for the registration of names for public highways at least twenty-five miles in length, the name to be registered with the state highway commission, together with the emblem or design with which the road is to be marked. After this has been done no other road or association may use the name and emblem thus registered.

BOUNTIES were established as follows: $20 for the skin of an adult wolf killed inside the state; $4 for a wolf cub; $1 for a lynx or wildcat, ten cents for each crow. These amounts are to be paid by the county treasurer, on presentation of the skins, which must be immediately mutilated or destroyed so that no person can collect the bounty on them again.

A POTATO UPLIFT MOVEMENT.

To the Editor of The Homestead:

The potato industry of the United States while a very considerable one, is by no means so important as the extent and population of the country would seem to justify. The present average production of potatoes per acre in the United States is less than half that of either Great Britain or Germany. When the total average annual crop is compared with that of Germany it is found that we produce but a trifle over one bushel for every five produced by the German farmer. It is eminently fitting that the American farmer should inquire why the German empire with an area of 208,670 square miles and a population of approximately 65,000,000 people should produce nearly five times as many bushels of potatoes as the United States with an area exclusive of Alaska of 2,970,230 square miles and a population of about 90,000,000 of people.

How do the German people dispose of such quantities of potatoes? This is a question to which the American farmer has, as yet, given too little consideration, but it is one which from now on should seriously engage his attention. Briefly summed up it might be stated that the German potato crop is, on the average, disposed of about as follows: 28 per cent is used for table purposes; 40 per cent is converted into stock foods; 12 per cent is used for seed purposes, and the remaining 4 per cent is converted into starch; 6 per cent alcohol and 10 per cent decay. Certain quantities are, of course, exported to other countries where prices are sufficiently high to make such disposal more profitable than for industrial purposes.

What becomes of the American crop? The disposition of the American crop is a comparatively simple proposition; about 87 per cent is used for table purposes; 12 per cent for seed and 1 per cent is devoted to starch manufacture or is fed to stock. Generally speaking that which is not used for table purposes or for seed represents the culls, and diseased stock.

Under existing conditions our present potato supply is a fluctuating one, and in consequence the prices received by the producer and paid by the consumer varies very widely. In a normal growing season throughout the United States the production is ample for table purposes and prices are moderate. In an unfavorable season the crop is not sufficient to meet the market demands and the price is high. In Germany, on the other hand, a short crop simply means that the table stock is supplied from the 40 per cent which is ordinarily converted into stock food, hence there is no wide variation in prices as in this country where no such reserve supply is available.

Can potatoes be profitably grown in this country for industrial purposes? How can we avoid seasons of abundance and seasons of scarcity with their consequent price fluctations? These are questions which are national in their scope and of nation-wide economic importance. They can only be successfully handled through state and local associations acting in cooperation with a national organization. To meet such a situation The National Potato Association of America has recently been organized. The present officers of this association are as follows: President, W. A. Martin, Houlton, Maine; vice-president, E. H. Grubb, Carbondale, Colorado; secretary-treasurer, William Stuart, U. S. Department of Agriculture, Washington, D. C.

The objects of the association as set forth in the constitution are to bring together for mutual co-operation and co-ordination of effort all agencies interested in the production, transportation, distribution and utilization of potatoes, and the promotion of the potato industry in all its phases.

Wm. Stuart.

NORTHWESTERN GREENING APPLE.

To the Editor of The Homestead:

An Iowa subscriber sends the following communication:

I am about to plant an orchard and a friend has recommended the Northwestern Greening. It is claimed to be a hardy, durable tree with large, good fruit which will keep all winter. If this is all true it must be the variety I am looking for. I am located in the latitude of Cedar Rapids. Would I be safe in setting two-thirds of my orchard of this variety?

The claims made for the variety are in part true at least. The fruit is large and of good quality. As a keeper it does very well—better in northern Iowa than in your latitude. As a bearer we think it should be rated as light. It looks very scattering upon the tree, but the fruit is so large that it often measures up as many bushels as trees of smaller apples which are more thickly set.

As this Greening originated in south Wisconsin, it ought to be a hardy, durable tree. And that has been the expectation in regard to it. It happens that we have lately had occasion to examine an orchard which gives evidence against its durability. These trees were planted upon good corn land—rich prairie soil—some ten years ago. They have made a vigorous growth and have borne sparingly for four years back. It happened that one of them was broken off in a wind storm last summer, and it was found to be rotten at the heart; in fact, two-thirds of the stem of the tree was dozy. An examination showed that every one of the Greenings was similarly affected. They are all rotten in trunk and crotches, while the tops still look vigorous and healthy. So it may be said that in this particular orchard the N. W. Greening is not durable.

We would be the last to claim that this special case settles the question. "One swallow never makes a summer," and it needs more than one example to settle any principle. It may be that there are many Greening orchards sound and vigorous to old age. It may be that there was some unfortunate condition in the propagation of the trees mentioned. Possibly they were injured during the first winter in nursery.

At least we shall be glad to believe that there are some peculiar and special reasons why these trees are failing at such an early age.

It would be nothing less than a calamity if the great number of the Greening trees planted in the Northwest are doomed to short lives.

But personally, having seen what we have seen, we shoud hesitate to plant largely of this variety without first making a careful investigation of this point. Inquire of those who have been long growing this variety how the trees are holding up. And let those orchard men who have had experience upon this point write about it.

There is one peculiarity about the fruit of the Greening which we have not noticed in the fruit of any other variety: Some of the apples will rot upon the trees in the early fall, before the crop ripens. Others will be found decaying about the time the crop is gathered. Some others will be rotten before midwinter, and the balance, say one-third to one-half of the total, will keep perfectly until March and April. This fact makes necessary plenty of room for storing the Greening and frequent sorting, but the quantity which finally carries through to spring season and prices is of excellent quality either for home use or market.

M. E. H.

LOSS OF PLUMAGE.

The following communication has been received from an Iowa subscriber, Mrs. G. S. Adams:

The feathers are all coming off my chickens' necks for two inches down the front under the wattles. They are well and healthy and have good, red combs. Have a flock of over 200 hens and seven male birds and the whole flock is affected the same way. Will you please tell me the cause of this and a remedy?

If the bare places are covered with small white or light gray spots varying in size from a pinhead to a dime that are raised at the border and depressed in the center, the trouble is favus.

And if, as we rather suspect, no crusts or outward signs are visible the trouble is scabies, caused by a parasite known as the "depluming scab mite." It is often difficult to distinguish between favus and the depluming mite, but if the irritation shows up with a depression in the center of which the feather is fixed it is favus.

The depluming mite infests the air sacs and is of such a tenacious character as to be very difficult to get rid of. The symptoms are found in a fine white powder on the surface of the air sacs. When existing in small number they do little harm. When dressing a fowl this powder is frequently noticeable with no apparent harm to the fowl. However, in large numbers they produce a diseased condition of the skin causing fowls to become weak and anemic and susceptible to disease. So hard is this trouble to combat that some authorities advise that the only sure way of extermination is to kill off the entire flock and procure entirely new stock. It is well to take much poultry advice with a good big "grain of salt." If every flock was disposed of that is advised there would be few places left from which to procure new stock.

In either favus or scabies individual treatment is necessary. In early stages of the trouble any mild disinfectant will answer. In this case, which appears serious, it is advisable not to experiment. Rub the affected parts daily with one-half ounce vaseline to which has been added three grains nitrate of silver. If there are scales they must be scraped off with a piece of wood sharpened to an edge so that the treatment can penetrate to the base of the trouble. It is possible for people to contract favus—have a care about the hands coming in contact with the affected parts.

BRUSH FOR BEAN CLIMBERS.

To the Editor of The Homestead:

When planting pole beans or any other variety of climbing beans or peas we have found it a good plan to lay brush between every other row, leaving out one row on each side for convenience to pass through when picking the beans.

The beans may be cultivated or hoed several times before placing the brush between the rows, but as soon as they begin to vine place the brush in the rows, laying the vines on same. This brush allows a free circulation of air to pass through under the vines, keeping them in fine condition and preventing mold or decay if the season should happen to be a wet one. If the season is dry the vines on the brush will shade the ground, preventing the soil from drying out underneath and thus retaining much of the moisture which would be lost if planted in the usual way where the beans climb on poles.

This method will keep the beans green much longer than the pole method and the supply of beans will be much longer also.

It is not a difficult matter to place this brush. It will not cause as much work as placing poles and the expense will not be so great.

A. Glitzke.

Geese will pick up the greater part of their living, and when grass comes they require no extra feed whatever. Try a few this season.

EVERY FARMER

Should possess a copy of Dickinson's Hand-book on Farm Seeds. Vest-pocket size. Over 50 pages of reliable information about the growing of the crops in which you are most vitally interested. Illustrated in color. Sent free upon receipt of 4c in stamps to cover cost of mailing. We guarantee you will find this book the most valuable publication of its kind you have ever seen. *WRITE US TODAY.*

THE ALBERT DICKINSON CO.
SEED MERCHANTS
CHICAGO Dept. F. MINNEAPOLIS

Sales may come, sales may go,
Everywhere are auctions now,
Of many kinds and many breeds,
But if you want Holsteins, Russell leads.

When writing to advertisers please mention The Homestead.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.
May 27, P. J. Donohoe, Holbrook, Iowa.
May 29, Otto V. Battles, Maquoketa, Ia.
June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.
June 4, John M. Bay, Aledo, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Reese & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.
June 13, Whitsett Bros., Preemption, Ill.

Hereford Cattle.
May 6, Breeders' sale, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.

Holstein-Friesian Cattle.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Guernsey Cattle.
May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.
Oct. 2, W. H. Seddons, Persia, Iowa.

Poland China Swine.
Sept. 3, W. E. Zimmerman, Neola, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 22, Ed Seckington, North English, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

H. Redenius, Rushmore, Minn., offers Percheron stallions on page 39.

Davenport & Mack, Belmond, Iowa, have pure Scotch bulls for sale. See advertisement on page 38.

Strongly bred Galloway bulls and females are offered by J. P. Milliken, Media, Ill., whose advertisement appears on page 37.

J. C. Charleson, Leland, Iowa, can quote good prices on that most useful Short-horn, the milking strain. Write him. His advertisement is on page 38.

G. O. Satre's Chester White sows are real bargains for buyers. Look up his advertisement on page 38 and write him. Address G. O. Satre, Jewell, Iowa.

Geo. W. De Barr, Aurora, Iowa, is offering a few O. I. C. gilts, bred for summer farrow, for sale at right prices in his advertisement on page 35 of this issue.

Jas. Pedley, Britt, Iowa, can furnish some extra choice Clydesdale stallions to buyers whom the best breeding and and individuality are none too good. Write him. His advertisement is on page 39.

E. J. Augspurger, Pulaski, Iowa, is offering for sale fall Poland China pigs of excellent quality and breeding. He will also sell a three-year-old Scotch-bred roan herd bull and some bull calves. See page 35.

I. J. Wilson, West Branch, Iowa, has over 100 fine Duroc Jersey pigs sired by Golden Model 2d, Wilson's Defender and Wilson's Crimson Wonder. These 100 pigs are from fifteen sows which is an excellent record.

Fifty head of Short-horn cattle will be offered at public sale at Preemption, Ill., June 13th, by Whitsett Bros. This will be one of the best lots of cattle ever sent forward from the old-established herd, and full particulars will be given our readers in due time.

John M. Bay, the progressive Short-horn breeder at Aledo, Ill., will make a public sale Wednesday, June 4th. This will be Mr. Bay's first public sale and he is preparing to offer a class of cattle that will please the public. Particulars will appear in these colmuns later.

Wm. Reed, Rose Hill, Iowa, is offering some extra good fall boars sired by his two great herd boars, Chief Select and Reed's Top Col. He can please anyone in need of a good pig that will develop into a good herd boar. See his advertisement on page 37 and write him mentioning The Homestead.

O. S. Gibbons & Son, Atlantic, Iowa, writes: "We are consigning two head of extra good young Hereford bulls to the Breeders' Combination Sale to be held at Kansas City on May 6th. These bulls are just past two years of age, with plenty of scale, big bone, good quarters, good heads and fine, dark color. They are grandsons of Western Anxiety and out of good producing dams. They are good propositions for anybody and will bear inspection on sale day."

Will Michael, Selma, Iowa, has an advertisement on page 35 of this issue of The Homestead, in which he is offering some blocky, good-boned Chester White pigs for sale.

C. M. Kerr, Clermont, Iowa, is offering two extra heavy registered Shire stallion colts for sale in his advertisement appearing on page 35 of this issue. He writes: "These colts are from a prize-winning Truman stallion, nice bays and will develop into close to ton horses. They are both sound and will be sold at bargain prices."

From the interesting Alberta advertisement on page 25 it would seem that there yet remain opportunities for enterprising farmers to obtain free homesteads of 160 acres in Canada. The advantages of this land are merely referred to in the advertisement. Other facts in reference to them may be learned by writing to Frank H. Hewitt, Des Moines, Iowa.

C. A. Saunders, Manilla, Iowa, is offering some very classy Scotch bulls for sale, several of which will make splendid herd bulls. The breeding and individuality of these are such as will make herd bulls that any breeder can afford to own. Make it a point to go and see Mr. Saunders. He will take pleasure in showing you these bulls.

Real Angus herd headers are the attractions John Lakings, Hurley, South Dakota, offers in his advertisement on page 37 of this issue. They are the most profitable type, are growthy and will suit most breeders or cattle raisers who want something of a high order. Better write now for prices. Address, mentioning The Homestead, John Lakings, Hurley, S. D.

The Old Fairbanks-Morse concern, which has been a pioneer in so many of the machines to which modern farm advancement has been made, have made a new departure and are now offering the Fairbanks-Morse harvester engine. This little engine, as will be noticed in the engraving on page 9, is designed to attach to a harvester furnishing power for cutting and binding. Read the advertisement carefully and write for catalog No. E. E. 603. Address Fairbanks-Morse Co., 900 South Wabash Ave., Chicago, Ill.

Some good Short-horn bulls are advertised for sale by W. H. McLaughlin, Shelby, Iowa, on page 37.

There are many questions involved in silo building that are of particular interest to those who contemplate such work during the coming season. It is always the aim to build a better silo and a stronger silo, one that is rigid and immovable and that differs from the common stave silo. The experience of a prominent silo factory has brought out in this question an all-steel door frame, an inner anchor, base anchor, a splinedowel, and an angle steel rib. All these points are to secure the excellence above mentioned. The advertisement of the Saginaw silo on page 22 shows why these improvements tend to make a perfect silo. The silo book No. 34 goes into complete detail in description and arguments. It may be had without cost. A postal card request will get it. Address the McClure Co., Saginaw, Mich.

Angus Entries Wanted.

A few more high Aberdeen Angus cattle are wanted by M. A. Judy for the combination sale he is to hold at Chicago, June 18th. Some of the leading breeders are contributing to this sale. The demand for breeding cattle of the beef breeds is very strong and profitable prices are being realized. This will be an excellent opportunity to dispose of surplus stock. Entry blanks and full particulars can be secured by addressing M. A. Judy, West Lebanon, Ind.

La Doux's Short-horns and Chester Whites.

Among the good herds of Chester Whites in Iowa must be numbered that of Fred W. La Doux, Spirit Lake, Iowa. For a man whose efforts in this line extend over only a very few years, Mr. La Doux has done well indeed, and if he continues at the rate he has so far, which we think he certainly will, judging from the careful attention he has given to the selection of new breeding stock, his herd will take rank close up among the leaders. This spring the sows have done quite well, and a little later in the year, readers of this section of The Homestead will read of some good spring and fall boars that will be offered for sale. The fall boar pigs he has include several that breeders needing herd headers can investigate to advantage. Just now Mr. La Doux, who has a small herd of Short-horns, has a June bull calf by a son of the old Sultan bull once heading N. A. Lind's herd, and out of a Scotch Butterfly cow, a straight Scotch calf, growthy, good lines, type, and almost a red, that he would sell. Write him about the calf.

Halbrook Angus Sale.

On May 27th, P. J. Donohoe, Halbrook, Iowa, and Wm. Cash, Williamsburg, Iowa, will sell sixty Aberdeen Angus cattle at public auction in the Halbrook sale pavilion. The cattle to be sold are a clean, high-class lot of faultless breeding and the men selling them are right in every way. Blackbirds, Ericas, Queen Mothers and Prides are the four families that will make up the offering. Write P. J. Donohoe, Halbrook, Iowa, to place you on the mailing list for a catalog and in so doing mention The Homestead.

Classy Hereford Bulls.

Farmers and breeders who are in the market for Hereford bulls will be interested in the advertisement of the Riverside Stock Farm, of Geo. D. Harrah, Newton, Iowa. Mr. Harrah has a very large herd which carries the very best as well as the most popular strains of breeding. He has on hand bulls of various ages, some of which are true show-yard prospects. Great pains is taken to supply the demands of rangemen in carload lots. Personal inspection is guaranteed. Address all inquiries to Geo. D. Harrah, Newton, Iowa. See page 38.

Brook's Hampshire Swine.

C. A. Brook, Washington, Iowa, has a large herd of Hampshire swine headed by the great International prize-winning boar, Joe 7743, and in the herd are a number of prize-winning sows. Corrector 10490 the junior champion boar at Chicago, 1912, was recently sold at a long price to Geo. T. Pearce, Bloomfield, Iowa, to head his good herd of Hampshires. Mr. Brook has over 200 March and April pigs sired by Joe, Corrector and Signet 8185 and they are the best lot of pigs that he has had on the farm in a long time. A high percentage of them are perfectly belted. Mr. Brook is a practical hog raisers and has been very successful in selling all his surplus stock at good prices because he has the kind that please buyers. If any of our readers want to buy some pigs at weaning time they should write Mr. Brook for prices, mentioning The Homestead. See advertisement on page 37.

Owens Bros.' Short-horn Sale.

Owens Bros., Homestead, Iowa, will sell at their farm on June 12th about seventy-five Short-horn cattle at public auction. Fifteen bulls are listed and among them are some of the herd-header sort. Every animal in the sale will be of the best Scotch breeding, and from an old reliable herd that has been in the hands of master breeders for many years. This is an excellent place at which to buy breeding cattle that will do good. Full particulars will be given in later issues of the Homestead. Write them to place you on the mailing list for catalog, mentioning this paper.

Vala's Rosegay Bull to Ames.

It is always a pleasure to visit the herds maintained by the Farm Department of the Iowa State College at Ames. In order to place the best ideals of the various breeds before the students, every part of the herds must be kept up to a high standard of excellence. From such stock as this, the animals that this institution offers for sale from time to time, must certainly be desirable property. Just now, a yearling Angus bull, dropped a year ago in February, is being offered for sale. He is a thick youngster, low set and blocky and by the great Vala's Rosegay, a bull with a show yard and breeding record of high degree. This is an attractive proposition for some one. Address Farm Department, Iowa State College, Ames, Iowa.

Eggert's New Importation of Horses.

Geo. Eggert, Newton, Iowa, had a fresh importation of Percheron, Belgian and Shire stallions and mares arrive at his barns yesterday and he will be glad to show them to any prospective buyer. Last year Mr. Eggert imported horses good enough to win championships at the Iowa State Fair. In this importation there are better horses than he showed last year. Mr. Eggert made good winnings on Belgians and Shires last year, but not so much on Percherons. The reason of this was the fact that he has sold all his best Percherons before the fair. We want to say that he has as good Percherons in this importation as can be found. There are stallions and mares of the three breeds that if fitted can win this year. Anyone in need of a stallion or pair of mares can buy cheaper now than they can after Mr. Eggert has had to feed them for a few months. The fact that Oaklawn barns were empty before this arrival of horses shows that Mr. Eggert imports the right kind of horses and sells them at right prices. See the advertisement on page 36, and mention The Homestead when writing.

Griffith's Aberdeen Angus.

John E. Griffith, Washington, Iowa, has one of the leading herds of Aberdeen Angus cattle in the state. The herd numbers around 200 head at the present time. He has a few bulls left from ten to twelve months of age that he would sell worth the money. A few females are also offered. Mr. Griffith grows his cattle in a practical manner. They are given the same attention as one gives cattle by the good farmer throughout the corn belt. The leading families are represented in the herd. Write for prices on what you want, mentioning The Homestead. See advertisement on page 37.

Taylor & Welty Hereford Dispersion.

Taylor & Welty, Wanatah, Ind., writes: "Our entire herd of high-class Herefords will be dispersed April 29th. We have been breeding Herefords since 1900, but have decided to close out our herd owing to a change in our farming operations, and will offer about eighty head, small and large. Nearly all the cows of breeding age have calves at foot and are bred again. This is the best lot of cattle we have ever been able to produce. It is one of the grandest producing herds in the country. All the cattle are producers, and from the very bst strains of blood. Come and own some of the grand big cows in this offering. Everything will be sold. The farm joins the city limits. The sale will begin promptly at twelve o'clock, and will be held in comfortable quarters."

Good Fall Boars for Sale.

Some Poland China breeder that is wanting a good fall boar should write Harry Dodds, Florence, Neb., as he has three or four good ones for sale. One of these is a September 9th boar and is sired by I Am Big Too, the boar that sired Futurity Jack, the sensational young boar that Charlie Lonergan showed at the Nebraska State Fair last fall. The dam of this pig is Victoress, a daughter of Big Victor. This is a promising pig and will make a splendid herd boar when grown out. He has two others by the same boar and out of Rose by Guy's Prospect and these are quite good boars. He is pricing these boars at from $35 to $50 and they are well worth the money. If you want one of these you will have to get busy with your order right away. Kindly mention The Homestead when writing him.

Fields' Farm Herefords.

R. M. Fields & Son Lees Summit, Mo., are offering in the May 6th sale to be held in the fine stock pavilion at Kansas City, Mo., two double standard polled bulls and two cows. The double standard polled bulls are by King Francis (one of the strongest double standard polled bulls there is on record) and out of Anxiety cows. These bulls are in fine shape, well built, good color, heavy hone and well marked, twenty-two and twenty-three months old. They will make herd headers. The two cows are great granddaughters to the great bull Beau Brummel. They are young cows four years old and have already produced two fine calves each. At present these cows are bred to Prince 5th, a double standard polled bull out of a prize-winner cow shown at the World's Fair, St. Louis, Mo. The cows will calve soon. See advertisement on page 36.

Stanley Buys Good Short-horns.

A. O. Stanley, Sheridan, Mo., who owns a small, but very select herd of Short-horn cattle, has recently purchased a number of very choice young Scotch cows which will make his one of the choice herds of north Missouri. Two daughters of Orange Model, one a Cicely three year old, in calf to Clipper Model and a Rosewood with heifer calf at foot by Cicely King were purchased from the good herd of W. A. Betteridge, Pilot Grove, Mo. They are a choice pair and as well bred along Scotch and Cruickshank lines as could be desired. At the Stanton sale at Chicago Mr. Stanley secured a Village Maid out of an imported dam bred by Mr. Duthie, a Marr-bred Clara, and a Bruce Mayflower. The Mayflower heifer is well along in calf to a Missie bull and the former two go back to Mr. Stanton's farm to be bred to Browndale Sultan, a great son of Avondale. Mr. Stanley is a good judge of cattle, is a discriminating buyer of good ones and these will certainly prove valuable additions to his herd and do the breed much good in his section of Missouri.

What is Hog-Joy?

Hog-Joy is a little machine herewith illustrated. Its object is the destruction of lice on hogs. Its construction is perfectly plain and anyone who has taken notice of the intelligence of the hog will see that it won't take long until every hog in the place is taking

advantage of it. Crude oil is used in the receptacle, but any other fluid may be used equally as well. It has a strong cast-iron frame with a trough and an iron cylinder. The oil is fed into the trough automatically as used. Whenever a hog rubs against the cylinder he turns it and brings up a new supply. The advertisement of this

The Homestead a Good Medium for Advertising.

F. B. Greenwalt & Son, Mt. Auburn, Iowa, breed Short-horn cattle, and as a result of a small advertisement placed in the columns of The Homestead, they write saying: "We certainly find The Homestead a good medium for advertising good bulls. We received over thirty inquiries in answer to our advertisement in a short time and it sold both the animals we had for sale." For advertising rates or other information of interest to those who have pure-bred stock for sale address HOMESTEAD COMPANY, DES MOINES, IOWA.

machine will be found on page 16. For illustrated circular giving additional information write to the Hog-Joy Co., 301 N. 5th St., Springfield, Ill.

Quality in Cement Fence Posts.

In an advertisement on page 27 of this paper our readers are made acquainted with the merits of cement staple posts, which the manufacturers offer as the only cement fence posts made in which staples can be driven. These posts are made on improved plans with the most strict adherence to the principles of concrete construction which produce indestructable posts with conveniences which have been obtained only through the use of wood. These posts are proof against frost, fire and water. Complete information concerning them, together with testimonials and special prices will be obtained by writing to Columbus Cement Post Sales Co., Westerville, Ohio.

Kansas City Hereford Sale.

The twelve head of cows and heifers consigned by me to the May 6th Hereford sale at Kansas City, are extra good ones in every way, just the kind to use in establishing a good herd. They are a very smooth lot with plenty of size, all well marked, and all good colors. Ten are sired by Dale's Eclipse 223697, a grandson of Dale, one by Beau Anxiety 160170, a son of Beau Brummel, and one by Advancer 35th, 292173, a grandson of March On. These heifers are from twenty to thirty months old, and seven of them are in calf to Dale's Eclipse, Beau Anxiety and Beau Donald K. Two are due to calve in June, two in July, one in August and two in November. Four of the open heifers are eighteen months old, and one twelve months. They are a fine lot and will be sold in good breeding condition. Just right to go out on grass and do good. For catalog address R. T. Thornton, 1309 E. 15th St., Kansas City, Mo.

Drybread's Bull Consignment.

Samuel Drybread, proprietor of the Star Breeding Farm, Elk City, Kan., writes: "I am consigning fifteen choice bulls to the combination sale to be held at Kansas City, May 6th. These are a very choice lot and run in age from twelve to twenty-six months old. They are of the heavy bone, easy-feeding sort and are well marked and richly colored. These fifteen bulls have been selected out of 150 head and are strongly bred Anxiety, being close descendants of the famous bull, Beau Brummel. These are the best lot of bulls ever consigned or sent out from this good herd, and those in the market for the right kind of bulls for use the coming season for herd headers, farm or ranch use will find suitable material in this consignment. Since consigning this lot of bulls to this sale I have turned down tempting offers for them, as I wish to demonstrate to the public the kind of stock I am handling and I have selected the best bulls from my herd for this sale. No better opportunity has been presented this year to the buying public to select the right kind of bulls. Mr. Bull Buyer, you will find it to your interest to be at the fine stock pavilion at nine o'clock, May 6th, and don't fail to look this consignment over. For catalog address R. T. Thornton, 1309 E. 15th St., Kansas City, Mo. See page 36.

Fred Sievers' Big Polands.

One of the breeders who is rapidly coming to the front with his big-type Poland Chinas is Fred Sievers, Audubon, Iowa, and he has at the head of his herd some of the best boars today in the West. First and foremost is Big Wonder, a boar that now weighs in his everyday clothes 935 pounds, and all of the boys will have to take off their hats to this hog. He is a better boar today than he was at the last state fair, he has the size, the bone and length, is active as a pig and he breeds all kinds of size and bone. He is a hog in a thousand, and we care not where you go, and when you go and see him you do not have to question his size nor his weight. He is one of the most promising large-type boars today of the breed. Another boar that is coming is Orphan Wonder, the great son of The Big Wonder, and this boar was the highest priced boar at any and all of the sales last fall. He cost $325 at the Neuhofel sale and he has never regretted what he paid for him. He is out of an A. Wonder dam, possibly the best sow in the Newhofel herd. Another boar that would look good in any herd is Jumbo Price, a grandson of Chief Price 2d and out of a Jumbo Prospect dam, and he has pigs by all three of these hogs. Mr. Sievers has 120 spring pigs and he will have a splendid line up for his fall sale which is going to be one of the very attractive sales of the year.

Cypress in Barn Construction.

The rapidly decreasing supply of lumber with which farmers and builders are acquainted, and the greater demand for a material offering greater durability has led to an appreciation of cypress for general building purposes. We have at hand two books which, while exploiting the advantages of cypress, give also a mass of facts with which every farmer should be acquainted. One of these is a special cypress barn book. It contains plans for a large cow stable with milk room, two silos, feed and manure carriers, ventilators, and all the economical arrangements consistent with the modern idea of dairying. It contains plans for a middle-sized barn with silo inside, as well as quite a number of other barn and silo plans. Lists of materials, working plans and specifications are given. These are valuable and could not be obtained from an architect for less than $25 or $30. The other book, entitled "General Farm Needs," contains plans for several sorts of barns, poultry house, corn crib, hog house, silo and small conservatory. These are also complete and ready to work from. These books have been obtained by an association of cypress manufacturers who, in order to popularize their goods, would be glad to send a copy of each of the books named to anyone who will fill out the coupon to be found in the advertisement and forward it to Southern Cypress Manufacturers' Association, Hibernia Bank Building, New Orleans, La.

Drybread's Hereford Bulls.

In an announcement of the combination sale of Hereford cattle to be held at Kansas City, May 6th, it will be noted that Samual Drybread, Elk City, Kan., is putting forward fifteen head of the most carefully selected bulls in his big herd of 150. These are choice ones of desirable ages and with quality that is in keeping with the most aristocratic lines of breeding. They are big heavy-boned fellows, richly colored ones, and are feeders that must appeal to beef producers everywhere. This consignment added to the extraordinarily good lot put forward by other breeders will make the sale an interesting one for farmers, ranch men and breeders. Special information may be obtained from a copy of the catalog, for which address R. T. Thornton, Mgr., 1313 E. 15th St., Kansas City, Mo.

Sixty-Five Bulls—Forty-Five Females in Kansas City May Sale.

R. T. Thornton, 1309 E. 15th St., Kansas City, Mo., manager of the sale of Hereford cattle to be held at Kansas City, Mo., on May 6th, writes that Gudgel & Simpson, Independence, Mo., have decided to list five more of their good Anxiety-bred heifers and that Mousel Bros., Cambridge, Neb., have listed twelve choice bulls making the total number to be sold 110 head, sixty-five bulls and forty-five females. The Gudgel & Simpson heifers are all bred heifers and represent the best lines of breeding they have in their herd that has furnished the breed with so much good stuff. The bulls Mousel Bros. are sending to the sale are two-year-old bulls ready for service. Those looking for polled bulls should not overlook this opportunity as there are five head listed that carry as many polled crosses as it is possible to find and they are said to be first-class bulls in every respect. There are several cows listed that are bred to double standard polled bulls that head the herds from which the contributions to the sale are made. Mr. Thornton will gladly mail catalogs on receipt of request for same. See advertisement on page 36.

Importance of Asphalt.

Asphalt in its many combinations has grown to be of wonderful importance in the construction of farm buildings. As a roofing material it has assumed remarkable prominence of late years, Genasco roofing, advertised on page 2, is made from pure Trinidad Lake asphalt, which insures its giving absolute protection as a water-proof roofing. It is very low in price, easily applied and has any number of valuable qualities. It may be secured from dealers or other information concerning it may be obtained by writing to Barber Asphalt Paving Co., Philadelphia, Pa.

A Convenient Automobile Light.

Prest-O-Lite advertised on page 21, is presented as an extraordinary good light for automobiles, which is inexpensive and which supplies a light as good or better than others under all conditions incident to the operation of an automobile. The Prest-O-Lite may be used on automobiles which have been fitted with lamps for the use of carbide and without any extra expense. The light may also be used for any purposes around the farm which require artificial light. The illustration of the threshing machine in the advertisement shows one of its important uses. The Prest-O-Lite may be obtained on a free thirty days' trial from any dealer or direct from the manufacturers. For complete details address the Prest-O-Lite Co., 420 E. South St., Indianapolis, Ind.

Shire Horse Sovereignty.

We have before us a little booklet from the pen of John G. Truman, the well-known Shire horse specialist, which is really an important contribution to the horse literature of this country. Mr. Truman is probably as well fitted for the work of preparing such a book as any man living. He takes up in the first place the Shire as a breed, points out the natural prepotency which reproduces the massiveness, docility and superb muscling which are the striking characteristics of the Shire. Divisions of the book treat also on the subjects of contemporary supply and demand, farm demand now dominates prices, later Shire importations, Shire geldings hold market records, present day market geldings, the soundest breed on earth, the Shire in America, and good reason for Shire prepotency. The book makes interesting reading for farmers who realize the need for securing draft merits in their farm horses. Copies of it may be obtained free by writing to J. G. Truman, president, American Shire Association, Bushnell, Ill.

The Angus Spring Bull Sales.

Sec. Charles Gray, American Aberdeen Angus Breeders' Association writes: "Every breeder of Aberdeen Angus cattle should be interested in the continued success and achievements of the Aberdeen Angus cattle. Every breeder in general and prospective bull buyer in particular should be especially interested in American Aberdeen Angus Breeders' Association spring bull sales which are to be held April 29th, at the Union Stock Yards, South Omaha, Neb., and at the Union Stock Yards, Chicago, May 1st. One hundred and seventy-five head of top notch bulls ready for service have already been cataloged for the sales. There are bulls that will top the market and bulls that are matured and ready to do heavy service on the ranges of the West. Never before has the American Aberdeen Angus Breeders' Association spent so much time and money to advance the interest of its breed. These spring bull sales have long been needed in order to asemble a large number of bulls at one point so that rangemen, breeders and farmers will be afforded an opportunity to secure their needs in form of single individuals or in car-load lots. The secretary of the association will manage these sales with the single object of making them a success for the consignor, as well as the buyer without having to consider pecuniary profit which is usually always paramount, thus, prospective bull buyers can attend either or both these sales with absolute confidence that the association will look after his interests. Only healthy bulls will be offered. All bulls will be tested so they can be shipped to any state in the Union or to Canada. The 175 bulls listed for these two sales will bring together more Aberdeen Angus bulls than have ever been cataloged and offered for sale in one week during the history of the breed in America. By personal correspondence the association has made a systematic inventory of all the bulls old enough or fit to use for breeding purposes. The bulls cataloged for the Omaha and Chicago sales practically comprise all the bulls of serviceable ages in the country at present, thus, every breeder, farmer and rangeman in need of a bull, or bulls should avail himself of this last and only opportunity to secure his needs for this season. A volume could be written on the merits of the offerings and the advantages of the plan presents to prospective bull buyers, however, space is too limited."

Westrope's Short-horn Bulls.

On page 37 J. G. Westrope, Harlan, Iowa, is offering some splendid young Scotch and Scotch-topped bulls for sale and he has some that are good enough to head herds. He is desirous of closing these out and is therefore pricing them where they will sell. Write him about these at once or go and see the bulls he is offering.

Bryson's Short-horn Sale.

One of the most desirable lots of Short-horn cattle from a beef standpoint that has been submitted in a long time will be offered at Lake Fork, Logan county, Illinois, Tuesday of next week, April 29th, by W. H. Bryson, who sells sixty head, fifteen of them bulls. This lot of cattle will reflect credit on both Mr. Bryson and the breed. They have been raised under outdoor conditions that tend to future usefulness, and will go into the sale in satisfactory condition. They carry the blood of many noted bulls, and as an object lesson on making beef production with Short-horn cattle this sale will be a most practical demonstration. Mr. Bryson maintains a large herd on his farm at Lake Fork, and the coming sale is made for the purpose of reducing his surplus. It is in no sense a speculative lot of cattle, but the natural increase of one of the strongest and most regular producing herds in the state. There are fifteen bulls cataloged, fourteen of them yearlings, all of the low-down soggy, approved beef type, and they should meet ready appreciation at the hands of the farmers of the corn belt. There is need for every one of these bulls on the farms of Iowa and Illinois. The herd bull, Golden Edgewood, is also listed, as Mr. Bryson has so many of his get that he is forced to let him go. He is by Imp. Bapton Diamond and out of a dam by the champion Ceremonious Archer, and is one of the deepest ribbed and strongest topped bulls sold at public sale in a long time, while his breeding is good enough to entitle him to head any herd. His sons and daughters in the sale give ample proof as to his strong breeding qualities. Many of the cows sell with calves at foot, and the females are all of the big roomy sort, the kind that make reliable breeding matrons. If you appreciate Short-horns of the approved beef type you will be interested in this sale, while they come from the herd of a gentleman that is thoroughly reliable in every way. Look up the advertisement on page 37, and send for the catalog, mentioning this paper when you write.

NEXT WEEK'S SALE PROGRAM

Tuesday April 29	Aberdeen Angus, American Aberdeen Angus Breeders' Association, South Omaha, Neb. Herefords, Taylor & Welty, Wanatah, Indiana. Short-horns, W. H. Bryson, Lake Fork, Illinois.
Thursday May 1	Holsteins, T. H. Russell, Geneva, Ohio. Aberdeen Angus, American Aberdeen Angus Breeders' Association, Chicago, Ill.
Friday May 2	Holsteins, T. H. Russell, Geneva, Ohio.

Take some money to Russell's Sale,
Buy some Holsteins without fail
The kind that fill an eight-gallon pail,
Now don't think this a fairy tale.

Nauman's Duroc Jerseys.

D. Nauman, West Liberty, Iowa, whose advertisement offering fall Duroc Jersey boars for sale appears on page 35 of this issue, writes: "I have eight head of fall boars, weighing about 200 pounds. They are a fine cherry red color, good bone and good on feet. They are sired by Defender Junior, he by Defender. I will close them out at farmers' prices. Here is a chance to get a cheap pig. I also have five head of fall gilts bred for August farrow to Chief Jewell, he by Chief Select. I guarantee as represented or money back."

Howell Reese's Forthcoming Sale.

On June 11th, at South Omaha, Howell Reese & Son, Pilger, Neb., will make their annual sale of Short-horns at which time they will offer forty-five head of the best cattle that have ever come from their well-known herd. Included will be a number of good show heifers, most of which are sired by Ruberta's Goods, the bull that has done such good service in their herd since the death of old Choice Goods. It will be remembered that in their last sale the get of Ruberta's Goods were eagerly picked up by the best breeders at good prices, and both sons and daughters of his in other sales the past two years have been bringing sensational prices because of their uniformity and great fleshing qualities. They are selling a splendid lot of Scotch cows and heifers in this sale and there will be ten calves at foot, most of which are sired by Ruberta's Goods. There is one calf by their new bull White Hall Rosedale and another by Victor Sultan. All the females that are carrying calf will be bred to Ruberta's Goods or White Hall Rosedale. The latter bull is a son of that sensational sire, Avondale and he is out of Rosewood Pride, his grandam being Imp. Rosewood 86th by Pride of Day. He stood second at Lincoln to the great Diamond Goods, and he stood third at Kansas City to the great Ringmaster and White Star. At the International in 1911 he stood second to Gainford Marquis, so you may know he is some bull individually as well as being a well-bred fellow. He is a wonderfully thick and well-fleshed bull and is destined to make a splendid record in the Reese herd. He will weigh 2,400 pounds, is a rich red roan in color and will unquestionably assist materially in making the Reese herd one of the most noted Short-horn herds in the West. Both of these bulls will be at the sale and breeders will have an opportunity of passing on them. They are selling six splendid young bulls in this sale among which is Good Secret, a son of Ruberta's Goods and out of a daughter of Imp. McNaughton that bids fair to make a most excellent herd bull. He is a Cruickshank Secret, and one that is good enough to head any herd. There will also be a good Lavender, an Orange Blossom, a Crocus and a good calf by The Callant, the latter bull being another splendid son of Avondale, together with two or three others that breeders will like. If you want to be sure to get a catalog kindly drop a postal card to Howell Reese & Son, Pilger, Neb., at once, asking for the same and kindly mention The Homestead and it will be forwarded just as soon as it is out of print.

A Remarkable Holstein Sire.

Elsewhere we publish an illustration of the Holstein bull Count Cornucopia Korndyke, a bull of very superior merit, both individually and in breeding. Regarding the sire such is conveyed in the fact that he is the $5,000 son of Pontiac Korndyke and the $8,000 cow, Pontiac Rag Apple. Thus Count Korndyke derives 87½ per cent of his blood from Hengerveld De Kol and Pontiac Korndyke, two as great sires as ever lived, a combination of whose blood has produced extraordinary results. Pontiac Rag Apple made an extra large record and she is a full sister to Pontiac Clothilde De Kol 2d, the first thirty-seven-pound cow, the first to make 145 pounds of butter in thirty days or 1,000 pounds of butter fat in a year. She is also the only cow that has ever made three thirty-pound records and her combination of records made each year stand unapproached by any other cow. Pontiac Korndyke has eleven thirty-pound cows and twenty-one of his daughters have records that average over thirty pounds. Not only are his own daughters making a great showing, but also his granddaughters, among them being many cows and heifers with remarkable records. His dam, the great foundation cow Delle Korndyke, made her record at a time when there were but few twenty-five-pound cows and as a progenitor of great dairy animals she has no superior for she has transmitted great dairy qualities through both sons and daughters as has no other cow. She has one daughter with two sons having two thirty-pound daughters each and another daughter has a son with two thirty-one-pound daughters. The dam of Count Cornucopia Korndyke, a twenty-five-pound four and a half year old, is by Aaggie Cornucopia Pauline Count from a twenty-five-pound daughter of the good transmitting sire, Pauline Paul's De Kol, who

HOLSTEINS

May 1st and 2d is the date,
Geneva is the station;
Russell's herd is the one on sale,
The best in all creation.

Tell me not in idle jingle,
Russell's sale is but a dream;
For the crowds with whom you mingle
Are very fond of Holstein cream.

Russell's Third Annual Sale, May 1 and 2,'13

200 Head Registered Holstein Females 200
Every Animal Guaranteed Without a Blemish

25 Daughters of Pontiac Hengerveld Parthenea 39972
55 Daughters of Count Cornucopia Korndyke 60247

Daughters of
Crown Prince Segis
De Kol Hengerveld Burke
King Pontiac of Brookside
Sir Korndyke Manor De Kol
Paul Beets Walker
King Pontiac Ted
Admiral Prilly Walker
Rag Apple Aaggie Korndyke
and many other well-bred sires

Granddaughters of
Pontiac Korndyke
King of the Pontiacs (sire of the new 43-lb. cow).
Hengerveld De Kol
King Segis
De Kol 2d's Mutual Paul
King Fayne Segis
Homestead Girl De Kol
Sarcastic Lad

THE EVENT OF THE SEASON

Auctioneers, Canfield, Kelley, Jones, Perry. Mgrs. of Sale, The Holstein Breeder Co.

IDLE HOUR PLACE STOCK FARM, T. H. Russell, Geneva, Ohio

Write for Catalog, Mentioning The Homestead.

was from the foundation cow, Pauline Paul, and sired by a son of Paul De Kol, unquestionably one of the greatest of the earlier A. R. O. sires, Aaggie Cornucopia Pauline Count is by Pauline Paul 2d's Count from Aaggie Cornucopia Pauline, the first thirty-four-pound cow and her record made as a senior four year old stood for eight years undefeated in its class. Count Cornucopia Korndyke, as will be seen, possesses a very strong pedigree and his only daughters to be tested thus far made the excellent showing, as a junior two year old, of sixteen pounds of butter in a week averaging sixty-one pounds of milk in a month with an average of over fifty pounds of milk. This shows a very persistent production and to some extent typifies the high qualities of his progeny. His ancestry in every line is noted not only for large production, but for a remarkable ability to transmit those dairy qualities and he is certain to have an extra good list of large record daughters. This remarkable Holstein sire is owned by T. H. Russell, Idle Hour Place Stock Farm, Geneva, Ohio, and fifty-five of his daughters are cataloged for the two-days sale to be held May 1st and 2d. Look up the advertisement on this page and write for a copy of the catalog to T. H. Russell, Geneva, Ohio, mentioning this paper when you write.

Truman Reports Big Trade.

Manager J. G. Truman, Pioneer Stud Farm, Bushnell, Ill., writes: "We are pleased to state that the trade for strictly high-class Shire, Percheron and Belgian stallions still continues and we are in a good position to accommodate all who come here that want that class of horses as our last importation has filled our barns. Among our sales during March not previously reported are the following: J. P. Wylie, La Salle county, Illinois, imported Percheron stallion; W. B. Duncan, Marshall county, Illinois, Shire stallion; W. T. Head, Hendricks county, Indiana, imported Percheron stallion; James H. Collins & Son, Fountain county, Indiana, imported Shire stallion; Preston Draft Horse Company, Fillmore county, Minnesota, imported Percheron stallion; George Stoll and Koenig, Logan county, Illinois, imported Shire stallion (this is the fourth stallion we have sold them); Atwell & Lane, Henry county, Illinois, imported Shire stallion; John Overland, Fillmore county, Minnesota, Shire stallion; Johnston & Mauser, Buena Vista, county, Iowa, imported Shire stallion; Bert Mick, Clark County, Iowa, Percheron stallion; A. G. Thurman, Page county, Iowa, Shire stallion; J. M. Overton, Decatur county, Iowa, Percheron stallion; George N. Ferguson, Pottawattamie county, Iowa, champion Shire stallion Iowa State Fair, 1911; Amos Livezey & Son, Grant County, Indiana, imported Belgian stallion; J. L. Jones & Company, Louisa county, Iowa, imported Shire stallion; John A. Peterson, Grant county, Indiana, imported Belgian stallion; James Nelson, Decatur county, Iowa, imported Shire stallion; Millen & McNamara, Grant county, Wisconsin, imported Percheron stallion; Charles A. Vorwald, Delaware county, Iowa, imported Shire stallion; Chris Steffenmyer, Lee county, Iowa, imported Percheron stallion; Cal Walker, Mahaska county, Iowa, imported Belgian stallion; J. W. Griffin, Cass county, Indiana, imported Shire stallion; Earlville Percheron Horse Company, La Salle county, Illinois, imported Percheron stallion; C. A. Blanchard, Louisa county, Iowa, imported Shire stallion; Charles H. Cash, Edgar county, Illinois, Percheron stallion; R. E. Evoritt, Mercer county, Missouri, imported Shire stallion, (fourth stallion we have sold him); Leslie Bros., Ontario, Canada, Percheron stallion, (second stallion we have sold them); E. C. Sargeant, Knox county, Illinois, Belgian stallion; Irwin Bros. & Watt, Warren county, Illinois, imported Shire stallion; Johnston Bros., Ontario, Canada, imported Shire stallion and mare (second stallion); Lewis & Grant, Peoria county, Illinois, imported Percheron stallion; G. E. Tinker, Poweshiek county, Iowa, imported Shire stallion (fourth stallion); David Strand, Henderson county, Illinois, imported Percheron stallion, (second stallion); I. D. Timberlake, Hancock county, Illinois, imported Shire stallion, (third stallion); Jentson Bros., Fillmore county, Minnesota, Percheron stallion; C. G. Corey, Winona county, Minnesota, three imported Percheron mares. We shall be pleased to mail our 1913 catalog to any parties interested in strictly high-class draft horses." See page 39.

Lonergan's Poland Chinas.

The other day we called upon D. C. Lonergan, Florence, Neb., and found him caring for seventy-five good pigs with a few more sows to farrow. They always say a good start is half the battle and he certainly has the start with the pigs he now has on the place. At this writing it is one of the best bunches of pigs we have our eye on, and if everything goes right he will have a great line-up for his fall sale in October. He has about ten or twelve good fall boars on the place now that he is offering for sale and these are sired by his celebrated boars Big Victor, Big Bob, Guy's Price Last and L's Quality. He is pricing these at from $25 to $50 as long as they last and you can get a good one if you write him right away. He wants to close them out and therefore these reasonable prices. His present crop of spring pigs are sired by Big Victor, a hog that we regard as one of the greatest sires today in the West. Few hogs have sired as many good things as has Big Victor, and his get in turn have been producing some sensational winners. The remainder are sired by Metal's Top, L's Quality and Guy's Price Last. Just now Mr. Lonergan wants to sell the fall boars as he does not wish to carry them over. It is a good time to buy your boar as these will sell for high prices this coming fall, and if you want to get in on the ground floor send him your order at once. Mention The Homestead when writing him.

THE LITTLE COLT'S WELFARE.

To the Editor of The Homestead.

Noticing an inquiry from a brother farmer about a mare that does not have milk for her foal, I will relate my experience in the hope that it will be of some benefit. I had a mare that did not have milk for her first colt for about three days and the next year I gave her bran slop for about a week before she foaled and she had plenty of milk. I gave her a common bucket half full with a little salt mixed in. Dry feed causes constipation and the feeding of bran slop just before the foaling time will overcome this difficulty.

Unclean stalls cause navel infection and my remedy is to give the foal a tablespoonful of medicated castor oil just as quickly as I find it and also to put diluted carbolic acid on the navel every day for a week. Care should be taken not to get this solution too strong, about 95 per cent water is strong enough. Before foaling time I spray with Kreso dip all around the stall and disinfect the floor with slacked lime. John Drake.

KILLING LICE ON HORSES.

To the Editor of The Homestead:

I have a remedy for killing lice on horses that I think is superior to tobacco stems. This formula only costs ten cents to kill every louse on the farm and after using it for forty years I have never known it to fail. Dissolve one-fourth pound borax in one quart of hot water and add four ounces of aqua ammonia. Wet a cloth in the mixture and rub the horse on each side of the neck and one the back where the lice are thickest. Wet the hair slightly where lice are plentiful and repeat the dose in a week if necessary, which is seldom. It kills all the lice it touches and the rest quit business and drop off.

I also use it on young chicks, wetting their heads and bodies slightly without the least injury to the chicken. J. F. Speck.

Many men are never too busy to haggle with the assessor over the valuation placed upon property for taxation. There is a whole lot of cheap stuff in the country during the assessment period.

Ask your neighbor to subscribe for The Homestead.

TOO LATE TO CLASSIFY.

A few good cows
Out of Russell's barn
Will show a man how
To pay for a farm.

WILDWOOD FARM

offers for sale

ONE Short-horn bull 15 months old, red, dehorned, low set, heavy, guaranteed and from a heavy-milking dam. Also four 10-12 months bulls and few heifers priced right.
W. W. VAUGHN, MARION, IOWA.

DUROC FALL BOARS FOR SALE

SIRED by Defender Junior, he by Defender, will weigh about 200 lbs.; also have some fall gilts bred August farrow will sell cheap if taken at once.
N. NAUMAN, WEST LIBERTY, IOWA.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan. Scotch bred 3 yr. olds, and calves 3 to 6 mos.; choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

FOR SALE Two extra heavy-boned, registered Shire stallion colts coming two and three years old. Price $300 and $400.
C. M. KERR, CLERMONT, IOWA.

BLOCKY, Good Boned Chester White Fall Pigs, either sex. Weight 140 to 175 at $20.00 to $25.00. Guaranteed as represented. Address **Will Michael, Selma, Iowa.**

Valley View Hampshires Nothing left at present but fall pigs. Address **Fred Wheeler, St. Charles Ia.**

A Few Fine O. I. C. Gilts Left Bred for summer farrow
Prices right. Address Geo. W. DeBar, Aurora, Iowa

OAKLAWN STOCK FARM IMPORTS and BREEDS

PERCHERONS. BELGIANS, SHIRES

A New Importation of Percheron, Belgian and Shire Stallions and mares arrived at our barns yesterday, April 23d, ready for the inspection of buyers. Compare our horses and prices with others. See these horses at once if you want a good stallion or mare.

LAST year we imported horses good enough to win grand championships at the Iowa State Fair. This importation is a better lot of horses and among them are several good enough to win this year. We will be pleased to show our horses to any one interested.

GEORGE EGGERT Mention Homestead When Writing. **NEWTON, IOWA.**

The Live Stock Market

Union Stock Yards, Chicago, Ill., April 19th.—Declines in fat cattle values during the week now closing have only made good predictions in these columns a week ago. They have come as the logical sequence to two consecutive weeks of liberal marketing and considering supply figures and the high cost of beef on the hooks the market has not been one that needs the services of an apologist. Chicago has received 50,000 cattle this week and had an equal number last week, while the past week's supply at six western markets aggregates 123,000, or 9,000 more than last week and 12,000 more than a year ago. These supply figures are not in themselves so bearish, but considering the high prices current and the fact that it has been a run of beef, the fact that the market has been subject to no more jolt than it has received is worthy of consideration as an indication of a fairly broad consumptive demand. Eighty per cent of the cattle run has been fat and beef men have secured good weights on the hooks. A buyer in speaking of quality of the week's crop said: "I cannot recall a time when cattle came better in quality or better adapted to trade needs. On Wednesday we thought we were buying a big fill and made allowances for it, but most buyers were surprised on persuing their dressing sheets to acertain the weights their purchasers had made on the hooks. The cattle proved actually cheaper than they looked on paper. It is fat that counts in making weights and fat has predominated this week."

Prices for beef steers range from ten to twenty-five cents lower than a week ago, barring strictly prime which are holding steady as exemplified by the sale of a two-load drove of very ripe Hereford Nebraska-fed beeves of the 6666 brand, averaging 1,493 pounds, on Wednesday to the Boston trade at $9.25 and a few other ripe beeves up to $9.10 to $9.20. Weights of 1,200 to 1,350 pounds have comprised a very large slice of the crop and most of them have been involved in a big fifteen-cent decline. Cattle of these weights selling from $8.25 to $8.75 have been in unusually profuse supply and have borne the brunt of the decline. "Cheap" steers, selling around and below $8.00 have not lost much ground, getting the benefit of feeder competition from the recently flooded area.

The heavy supply of the last two weeks from corn-belt feed lots has eliminated much of the visible supply and now little or no fear of gluts exists. The heavy run at the stall this week was due largely to muddy feed lots, a bad storm in the West and a desire on the part of holders to ship cattle while unable, owing to unfavorable weather conditions, to prosecute work in the fields. The character of the supply has not indicated the presence of many overripe bullocks back in feeders' hands and the trade will not be surprised if recepts fall off considerably during seeding and corn planting time. A broad view of the future warrants optimism, but the trade will need only moderate supplies the coming week as killers have been able to accumulate some beef in their coolers Eastern demand is not as broad as early in the month and a set of Jewish holidays are scheduled for April 28th and 29th, and with Kosher demand cut down a stout prop is taken from under the price list.

GOOD BUTCHER CATTLE BUMPED.

While current supply of cows and heifers is small, the lightest, probably, in proportion to the total cattle marketings even known at this season of the year, prices have been scaled down this week twenty-five to forty cents on the strictly good to prime beef cows, about twenty-five cents on good fat heifers and ten to fifteen cents on medium she stuff, canners holding fairly steady. For some time past good butcher cattle have been selling very high and costing killers more money on the hooks than steers and the sharper declines on the higher priced she stock than on steers this week is merely the beginning of a readjustment process. That a further downward revision of values on good cows and heifers is scheduled seems more than probable and with any kind of a fair run, either of native or Southwestern grass stuff it is hard to see how a declining market for female cattle can be avoided. Declines, however, are expected to be gradual, as with country buyers clamorous for the decently bred lighter-fleshed cattle of both sexes, killers will doubtless have some pretty strong competition to meet thoroughout the spring and early summer. Country buyers are now taking a fleshy class of well-bred young cows out at a cost of $5.85 to $6.10 and paying $6.25 to $6.75 for most of their purchases of stock and feeding heifers. Some dairy-bred, low- grade and plain cows are selling to killers around $5.15 to $5.25 and canner and cutter cows from $4.00 to $5.00, but most of the right good to very good butcher cows are making $6.25 to $.700 and a choice to prime heavy beef class $7.25 to $8.00. Prime yearling fed heifers are fetching $8.25 to $8.65, most of the very good to choice heifers $7.40 to $8.00 and fair to good killers $6.75 to $7.35 only a low grade thin sort going below $6.00. Bologna bulls are making the season's best prices, $6.40 to $6.80, practically covering their range, while choice to prime handy-weight beef bulls sell up to $7.25 to $7.75. Heavy fat bulls are relatively the lowest sale going largely from $6.90 to $7.25 and selling ten to fifteen cents lower than a week ago. Dairymen, both in the big dairy districts of the middle West and East are keeping market hoppers full of veal calves and prices are bumping the lowest levels of the season, showing seventy-five cents to $1.00 declines from the close last week. Most of the vealers are now selling here at $8.00 to $8.25, only a selected sort to the outside trade up to $8.50 and fair lights at $7.50 to $7.75. Heavy calves are holding up well by reason of scarcity and country demand for such as are bred along decent beef lines. Immediate future prospects favor buyers, but a lightly supplied and high level calf trade after the spring crop from the dairy districts has been well cashed in.

THREE STEERS SELL HIGH.

Good support of the market for stock and feeding cattle by Virginia, Maryland and Ohio buyers the past week, together with continued fair call from other sections, has toned up the market in good shape and now that grass is well started in most all sections, a big- broad demand from all parts of the compass is practically assured as there is a deficiency in supply the country over. The market is distinctly on a quality, rather than a weight or flesh basis and good to choice cattle of all weights are selling practically in the same notch. Demand, as anticipated with the rise of grass, is turning with greater force to the qualitied thin, young steers. While fleshy feeders show only a steady basis with a week ago, full ten to fifteen-cent advances are shown by the thin and lighter fleshed kinds of all weights. Choice steer yearlings are selling up to $8.00, the best fleshy feeders at $8.00 to $8.10, most of the good 600 to900-pound steers from $7.60 to $7.85 and plain to fair kinds of like weights from $7.15 to $7.50. Only inferior off-colored stock steers are dropping below the seven-cent lien and nothing decent in stock heifer stuff is selling below $6.00, good feeding heifers being quotable to $6.75 and desirable stock heifers around $6.25 to $6.60. The trade looks ripe for a series of active markets at current high prices and it would require but little swelling of demand to put prices back to as high a basis as has been shown this season. Thin young stockers are now very near that mark and the best feeders are within fifteen to twenty-five cents of the season's highest levels.

HOG MARKET TOP HEAVY.

While oats seeding and corn planting activities will tend to hold hog marketings down to modest proportions during the near future, and perhaps make possible a higher basis of prices for the immediate future, there is general expectancy of a liberal movement of hogs during the latter half of May and all through June, and the next three weeks promises to provide the best "getting off place" for growers who have hogs in good marketable condition. There has been a marked expansion in receipts this week, most of it at Misouri river markets and while the bear raid made on the price list shut off supplies toward week-end only a partial recovery of the declines of the first half of the week have been recovered. Eastern shipping demand is gradually diminishing and light weights no lower enjoying the stiff premium that was theirs a fortnight since. Prime light touched $9.25 here Friday, best heavy and butchers $9.20 and the bulk of the day's crop sold between that figure and $9.00, such prices being ten to fifteen cents higher than Thursday, but that much lower than the close last week. Rising temperatures have lessened demand for fresh pork which has had effect in weakening butcher classes more seriously than for packing grades. Quality continues good.

SHEEP VALUES BUMPED.

Ovine trade has failed badly in an effort to keep up the pace it set last week. Current prices are fifty cents lower than a week ago on the bulk of the fat classes of both sheep and lambs and some wooled goods not of the best class show sixty to sixty-five-cent declines. Slumpy eastern dressed mutton markets and sharply lower live markets east, seriously curtailing eastern shipping demand, have been the chief factors of depression, while receipts in the West have been liberal, six western markets having had over 190,000 head again this week and nearly 25,000 more than a year ago. Colorado, which centrals the main supply at the juncture has been crowding the market. There is still a prospect of a short supply gap developing during May, before the southern lamb crop begins to move freely, but conservative marketsings will be necessary for the next two weeks if much recovery toward recent high prices is to be expected. As noted a week ago the trend of prices between shorn and wooled stock is toward a narrowing of the range. Packers are showing marked preference for shorn stock, about the only wooled goods now selling to advantage being the high-dressing Colorado-Mexican lambs and even such are taking second place in buyers' favor to the best handy-weight, shorn stock. The following prices prevail at this week-end:

WOOLED STOCK.

Lambs, good to prime	$8.50@8.75
Lambs, fair to good	8.00@8.50
Lambs, common to fair	7.60@8.00
Lambs, culls	6.25@7.50
Lambs, feeders and shearers	6.00@7.85
Yearlings, fair to choice	7.00@7.75
Wether, good to choice	6.65@7.00
Wethers, plain to good	6.10@6.65
Ewes, fair to best	6.00@6.75
Ewes, culls	4.25@5.25
Bucks	5.00@6.00

SHORN STOCK.

Lambs, good to choice	7.50@7.75
Lambs, fair to good	7.15@7.50
Wethers, fair to choice	6.10@6.50
Yearlings, fair to choice	6.40@7.00
Ewes, fair to choice	5.65@6.25
Bucks, fair to choice	4.50@5.25

65 BULLS
45 COWS
AND HEIFERS

HEREFORD SALE

Breeders' Combination Sale, Kansas City, Mo., May 6th

IN THE FINE STOCK PAVILION AT THE STOCK YARDS.

50 BIG Strong Bulls of Serviceable age, royally bred, showing both character and quality. Forty Young Cows of superior quality and most popular breeding. A carefully selected and reserved lot of High-Class Herefords, both males and females, from 10 of the best herds of Missouri, Kansas and Iowa, contributed by the following well-known breeders:

Gudgell & Simpson, Independence, Mo.
Z. T. Kinsell, Mt. Ayr, Iowa.
E. E. Wall & Son, Leeton, Mo.
Samuel Drybread, Elk City, Kan.
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O. S. Gibbons & Son, Atlantic, Iowa.
Mousel Bros., Cambridge, Neb.
Kansas Agri. College, Manhattan, Kan.
J. L. McGinnis, Moulton, Iowa.
E. D. Gorman, Lineville, Iowa.
R. M. Fields & Son, Lees Summit, Mo.
E. W. Elliott, Montezuma, Iowa.
Ed Walton, Bowen, Ill.

Sale to begin promptly at 10 o'clock a. m.

For Catalog or other information Address R. T. THORNTON, Mgr., 1309 E. 15th St., Kansas City, Mo.

"Man wants but little here below,
Nor wants that little long,"
But a Holstein cow from Russell's Sale,
Ought to your herd belong.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending April 20, 1913:

Nearly a full week of bright sunshine, with practically no rain has started the growth of all vegetation, put the ground in fairly good condition, and enabled farmers to do a great amount of field work. The average temperature was about seven degrees above the normal, and the daily maximum temperatures ranged from 60 to 80 degrees. Except on low and untiled ground, where the soil is still too wet, rapid progress was made in seeding and plowing. The bulk of the oats is now in, and with favorable weather, all small grain will be sown before the close of the coming week. In many localities early potatoes have been planted, and a good start has been made in preparing ground for corn. Grass is starting nicely, and is earlier than usual although farm work is two weeks late. Winter grains are in fine condition. Peach and plum trees are in blossom in the extreme southeastern counties and all fruit trees show an abundance of healthy buds.

GEO. M. CHAPPEL,
Section Director.

PUBLIC SALE

OF A SELECT DRAFT OF

SHORT-HORN CATTLE

From the FOREST HOME HERD to be held on the farm, one-half mile from

LAKE FORK, LOGAN CO., ILL.,

TUESDAY, APRIL 29, 1913

Beginning at 1 O'clock, P. M.

SIXTY head of select cattle are cataloged and consist of 15 bulls and cows and heifers. The bulls are a high-class lot of youngsters with vigor and health and include several splendid herd-heading prospects. They have ample size and are of superior quality and, if given the opportunity, will develop into valuable breeding bulls. I am also offering my herd bull, Golden Edgewood 316426, a straight Scotch five-year-old roan son of Golden Prince 244737, by Imp. Bapton Sovereign 192125, and out of Cherry Lass by the noted Ceremonious Archer. The grandam of Golden Edgewood was Imp. Red Lady, bred by Mr. Murray, of Scotland. He is a bull with splendid conformation and breed type, is massive, yet smooth, has wonderful heart girth, splendid quarters, broad back, excellent head and horns, has an ideal disposition and is just in his prime. He has proven himself an impressive sire, as his thirty sons and daughters and some twenty calves at foot with dams in the sale will demonstrate The forty-five cows and heifers are a grand lot of individuals of superior type. Those old enough have been bred and are safe in calf or will have calves at foot on day of sale.

The cattle have wintered out of doors and are in the best of health and in splendid breeding condition. They are prolific, not a doubtful breeder being cataloged, and the cattle offered in this, my first sale of Short-horns, have been pronounced by good judges to be as good individually as will be sold at public auction this spring.

For catalog address, mentioning The Homestead.

W. H. BRYSON, LAKE FORK, LOGAN COUNTY, ILL.

COL. CAREY M. JONES, and COL. B. H. KECK, Auctioneers.

Lake Fork is a station on the Chicago-St. Louis branch of the Illinois Central R. R., twenty miles northeast of Springfield, Ill. and four miles west of Mt. Pulaski, Ill., a junction point of the Peoria, Decatur and Evansville, and Chicago-St. Louis branches of the Illinois Central R. R.

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Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. R. L. BOLLMAN, COAL VALLEY, ILLINOIS

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WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today. MIKE SHARP & SONS, COAL VALLEY, ILLINOIS

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300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
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200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. C. A. BROOK, Washington, Iowa.

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YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
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SOME very choice bulls, good even fleshers, some by Happy Jack 2d and all out of choice milking dams. The breeding is first class and the prices right. LUKE L. WILES. Plattsmouth, Neb.

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Bulls, Cows and Heifers for sale at farmers' prices.
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Tell me not in idle jingle,
Russell's sale is but a dream!
For the crowds with whom you mingle
Are very fond of Holstein cream.

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GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar in the world. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
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FALL boars sired by Queen's Chief 12635 by Chief select 88307, the noted prize winner. Dams by Stout's Advancer 63503 and Double Wonder II. 100-625. These are a choice bunch and strictly big type.
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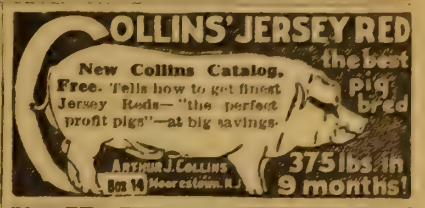

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Reed's big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol 40437a. If you want a big, smooth heavy-boned pig, visit or write Wm. Reed, Rose Hill, Iowa. Farm adjoining city limits.

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I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale** as I can spare him. He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
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TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address

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LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy,dam Lady Annie 16th by Imp.Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.

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AT Pike Timber Stock Farm— 2 Scotch Lancasters, 10 and 11 months old, both red and outstanding good ones; also 2 topped bulls 11 months old, red. **DAVENPOICT & MACK, Belmond, Ia.**

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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address J. E. BARR, R. F. D. 4, Davenport, Iowa.

LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon,price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Brawith Bud, Princess Royal, Alexandria and Athene families. Priced to sell. **R.E. Baldwin, Osceola, Clark Co., Ia., on C. B. & R. Ry.**

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

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FOR registered Short-horn cattle, a good **SHIRE STALLION** coming 6 years old, a sure foal getter and a splendid breeder. Price low. Write quick.

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SHORT-HORN BULLS by the great Baron Sultan. These bulls are very choice, yet we name farmers' prices as we wish to close them out soon.

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1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.

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BERKSHIRES

We are now ready to book orders for **Pigs from Spring farrowings,** to be shipped when weaned. We also have a few very fine pigs from last Fall litters still unsold. Be sure and write before buying.

MORGAN FARM BELOIT WIS

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YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address

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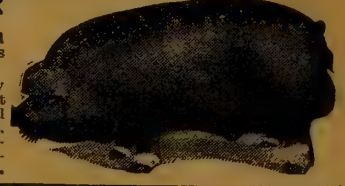

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NICELY grown and of excellent blood lines. They are sired by Nebraska Wonder by A Wonder, and Chief Price Again. They are out of sows by O.'s Jumbo, Jumbo Jr. and others. Nothing better to be had at any price, yet we name farmers' prices on these good boars as we wish to sell them at once. Mention The Homstead and address at once Beall & Jackson, (12 miles south of Lincoln), Roca, Neb.

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I WILL POSITIVELY SAVE YOU MONEY

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78 IMPORTED DRAFT STALLIONS 78

Including 8 noted Wrydelands colts rising 3; 25 Imported GRAY and BLACK PERCHERON STALLIONS, the BEST we could buy in France; 40 IMPORTED SHIRE STALLIONS 3 to 6 years old, including the champions, first, second and third prize winners at International, Illinois, Iowa, Minnesota and Wisconsin State Fairs of 1912; the GOLD MEDAL INTERNATIONAL WINNING ROAN BELGIAN stallion 3 years old, we think the best Belgian colt in America; a few Hackney Stallions and 35 Imported Shire and Percheron Mares.

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OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

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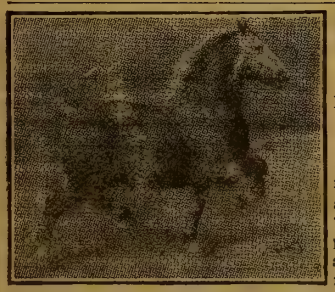

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SAY, Brother Horseman, if you want to buy a stallion go to Hudson, Iowa, and see Crownover's new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.

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Bargains for late buyers. Stallions from yearlings to 5 yr. olds Size, breeding and quality right.

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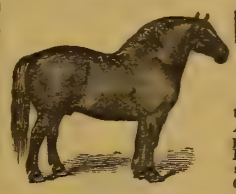

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EVERY spring your mares drop inferior colts you lose one more year of time in which to breed the stuff that pays. There's profit in Percherons because they are what's wanted. Don't delay. Investigate now I'll put my time against yours to prove you should.

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2 stallions, one a full brother to the state fair winner, Forest King; the other, a yearling, by him. They have size, big flat bone, good feet, are drafty types. One mare, the dam of the young horse, and a good one. I guarantee them to be right in every way. Address JAMES PEDLEY, Britt, Iowa.

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IAMS has all his "Paris and Belgian" "Prize winners" and best "business Stallions and Mares" in his barns. All must be sold. $1,000 and $1,400 (some higher). Imported mares $800 and $1,000. Iams' kind "are best ever."

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SEVERAL "PRIZE WINNERS" AT PARIS

Nogent-le-Rotrou and Chartress (three largest shows of France) and "several Belgian prize winners" at big Belgian "Horse Shows." They are all fully acclimated and in the "pink of condition." They were bought to sell. All must be sold at some price. I know France and Belgium and leading breeders there. I speak the languages and know how to "buy horses" at "Big Bargains," and I divide "the bargains" with my customers. Iams has

36 IMPORTED PERCHERON AND BELGIAN 36

"stallion and mares," 2 to 6 years old, weight 1,700 to 2,500 lbs. All "Branded," "Approved," "Registered and "Inspected" by Governments of France and U. S. and Certificates "stamped" O. K. All inspected by a Nebraska Deputy State Veterinarian, and Certificates of "health and soundness" are given with each horse. Iams sells

IMPORTED STALLIONS AT $1,000 and $1,400

(few higher). Imported 2,000-lb. to 2,360-lb. mares at $800 to $1,000. Terms cash, or one year's time at 8 per cent bankable note, one and two years' time Land Security at 6 per cent; $100 less price for cash than time. Iams pays freight and buyer's fare, gives 60 per cent breeding guarantee; can place $1,500 insurance. Iams backs up his ads. with a $500 guarantee that you find the horses as represented. Write for Horse Catalog. It has a "$1,000 Bargain" on each page.

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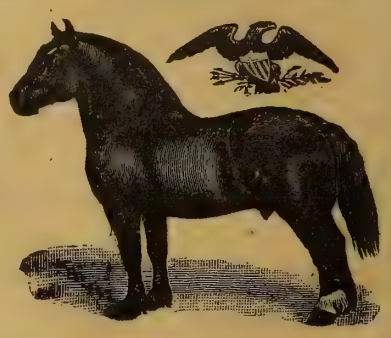
Special Sale of Percheron and Belgian Stallions For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More to arrive in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

MAASDAM & WHEELER
FAIRFIELD, IOWA
PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.
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Belgian Emporium of America

150 Stallions, Mares and Colts 150

Including a Few Choice Young Percherons

60 HEAD imported October, 1912; another large importation arrived March, 1913, making this the best and largest collection of Belgian draft horses to be found anywhere in America. The supply on hand never allowed to run low; you will at all times find a large and choice collection from which to choose. You will be delighted at the Belgian Horse Show to which you will be treated when here. I can satisfy you in price; I can satisfy you in quality, bays, browns, blacks, sorrels and roans. Get on the train, come to Cedar Rapids or Iowa City, then phone me to meet you at the electric car line; car every hour from Cedar Rapids and from Iowa City. Catalog ready.

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PERCHERON STALLIONS AND MARES

It is our intention and has been for the past five years to make a complete clearance every spring so as to give our customers fresh, clean horses each year. We will therefore quote very low prices on all stallions and mares to move them quickly. Every animal with the exception of the home breds were imported by us last fall and are now in prime breeding condition. Stallions are rising three and four year olds. Are blacks and grays and are weighing from 1,850 to 2,150. They are sound, excellent individuals and fit to go into any community needing the services of a first-class draft stallion. We have a few matched pairs of imported mares. If you want a real bargain in a first-class animal of either sex come and see us at once or write for full particulars. Terms to suit anyone. Homewood is conveniently located twenty-three miles south of Chicago on I. C. and Big Four railroads. Trains to and from the city every hour. Barns near station, Belle phone Homewood 58 W.

S. METZ & SONS, Homewood Stock Farm, Homewood, Illinois

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60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

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The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

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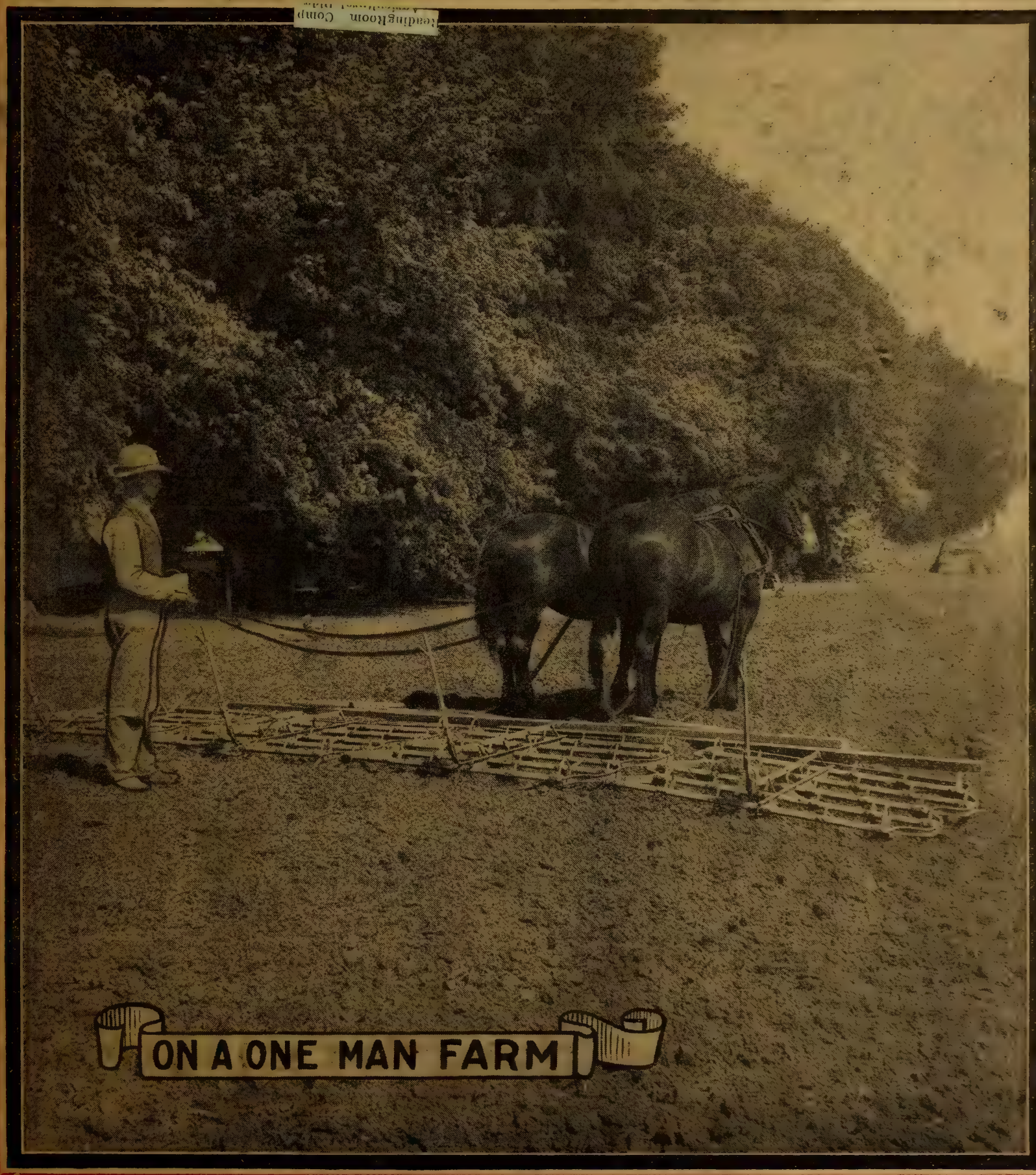
The Iowa Homestead

VOL. LVIII. NO. 18 DES MOINES, IOWA, MAY 1, 1913. WHOLE NO. 2899

Reading Room Comp



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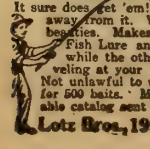

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 1, 1913.

WHY FARMING WITH TRACTOR IS BEST

With Tractor Power Comes Efficiency in Soil Tillage, Economy in Crop Production and an Ever-Increasing Pleasure in Farm Work.—*By W. H. Ruther.*

TRACTION ENGINE FARMING ON A BIG SCALE.

THE modern farm tractor is the greatest invention in farm machinery since that of the self-binder. In the next few years it will work a greater revolution in the agricultural line than was ever created by the self-binding reaper. Farming will then become a greater business proposition than manufacturing or merchandising ever has been.

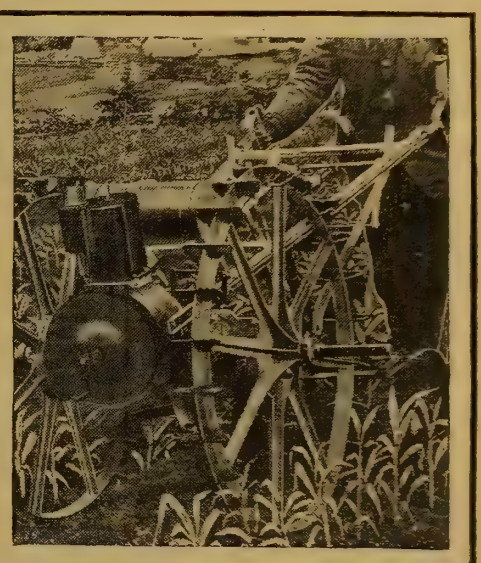
Present methods of transportation by steam and electric railways as well as by rivers, lakes and canals, make world-wide competition in farm products, and the farmer who makes the most success of farmnig is the one who raises the largest number of bushels of grain per acre at the smallest cost possible. The modern farm tractor is the answer to this problem because it places in the hands of one man a power formerly requiring many men and horses, enabling him to plow his land deeper, to disk, seed and harrow in the best possible manner and to harvest his crop far more quickly and certainly, as well as making it possible for him to thresh and market the crop more quickly. All of this means larger crops, better crops and lower cost of production, and, better yet, it means less bad work and drudgery which will go a long way toward keeping the boy on the farm.

In this modern, advancing day farming with horses is too expensive. They cannot do the work fast enough and require so many men to drive them; they are subject to too many accidents, diseases, weather conditions and require a large percentage of the crop to feed them, besides the time necessary to care for them.

The tractor means larger crops by doing the work right and the deep-tilled soil will retain the moisture when the dry season comes on. It will haul a number of loaded wagons at one time on a hot day without injury and will work as many hours as you desire, operating night and day if necessary in a rush season. It requires about the same attention as one team while at work and when idle needs no attention at all. Not only is it easier and pleasanter to handle than horses at less cost, but saves the expense of keeping surplus horses for use in rush seasons only. The tractor will do as much work the first day of the season as any time and can be housed in about one-twelfth of the room required for horses, hay oats and corn.

Statistics compiled by agricultural schools show that a horse is used only on an average of about three hours per day. Thus it will be seen that the horse must be fed twenty-one hours a day for nothing, while fuel is used in the tractor while actually at work. After all this and the thousands of testimonials being received in the factories every day, some people say it cannot succeed when it has already proven a success. These same people were saying a few years ago that the gasoline engine and the automobile would never be practical. In spite of this one company manufactures 300 engines a day and this year one motor car company will build about 80,000 cars and two other companies about 40,000 each.

One man says, "I would buy a tractor if my farm was large enough." Another says, "My farm is too hilly for the successful operation of a tractor." While it



GASOLINE POWER FOR THE CORN PLOW.

is a well-known fact that a horse is capable of exerting an over amount of power for a short time, under all reasonable conditions a tractor can be used where it is possible to farm with horses, and a small size tractor may be profitably used

(Continued on page 24)

THE FARM TRACTOR UTILIZED AT HARVEST TIME—QUICK WORK WHEN QUICK WORK COUNTS AND HELP IS SCARCE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOG CHOLERA CAMPAIGN.

With the loss from hog cholera last year placed by the federal government at six and one-half million head, entailing a financial loss of $66,500,000, it is important to note what the four leading swine states of the nation are doing toward checking the ravages of the cholera. Iowa, Illinois, Nebraska and Missouri are accredited with twenty million head of hogs, more than one-third of the entire number in the nation. With the Iowa legislature which adjourned last week making an appropriation of $35,000 for the manufacture and distribution of serum, all four of these states are at last banded together in a systematic crusade to minimize the pestilence which is proving such a heavy burden upon the live stock men. The following report, by states, has been brought up to date, so far as possible:

Iowa.—The recent legislature appropriated $35,000 for the establishment of a serum laboratory at Ames, the director to be appointed by the president of the state college of agriculture, the serum to be manufactured and distributed under the supervision of the college authorities. The serum is to be sold to Iowa breeders at the actual cost of production (estimated to be about two cents per cubic centimeter), no serum to be sold outside the state unless supply exceeds the demands from within the state. The loss from hog cholera in Iowa in the past year has been variously estimated between $6,000,000 and $12,000,000.

Illinois.—The manufacture of serum is under the supervision of the state board of live stock commissioners, the serum being distributed free of charge to the owner of hogs. The state appropriated $22,500 for the work in 1912, from which could be manufactured about 320,000 doses. Dr. A. T. Peters is director of the laboratory at Springfield.

Nebraska.—An appropriation of $15,000 for the production of hog cholera serum to be made under the direction of the Animal Pathology Division of the Nebraska Experiment Station. Serum is sold at cost of production, which is about two cents per cubic centimeter or fifty cents per 100 pounds of live weight of hog. Farmers are requested to call the nearest qualified veterinarian. Provision is made under certain conditions for furnishing serum direct to farmers, but virulent cholera serum is furnished only to veterinarians. Dr. J. H. Gain, Nebraska, who has charge of this work, endorses the simultaneous method and expresses the belief that the "control of hog cholera by the use of serum must be largely through the simultaneous method, immunizing the well herds in the immediate neighborhood of outbreaks."

Missouri.—Under the direction of the veterinary department of the college, serum is sent direct to farmers or to veterinarians at a charge of twenty-five cents per dose of twenty cubic centimeters. Capacity at the present time from 20,000 to 30,000 doses per month. Dr. J. W. Connaway, Agricultural College, Columbia, Mo., in charge.

It will thus be seen that three of the four leading hog states have made direct appropriations of $72,500 for the purpose of checking the ravages of the plague, while the fourth state is actively engaged in manufacturing and distributing the serum. The other states of the grain belt are equally alert, Kansas, Wisconsin, Minnesota and South Dakota selling serum, under the direction of the veterinary department of the experiment station, at actual cost, ranging from one and one-half cents to two cents per cubic centimeter. In order to help along in the campaign as much as possible we give the addresses of the men in charge in these states: Dr. J. H. Gains, Nebraska; Dr. A. T. Peters, Springfield, Illinois; Dr. F. B. Hadley, Madison, Wisconsin; Dr. M. H. Reynolds, St. Anthony Park, Minnesota; Dr. J. W. Connaway, Columbia, Missouri; Dr. F. S. Schoenleber, Manhattan, Kansas.

UNLOCK THE SCHOOLHOUSE DOOR.

The rural school has had more attention paid to it by the legislatures of the various grain belt states the past winter than for many years. Notably has this been the case in Iowa and Kansas. In Iowa the initiative was taken by the Iowa State Teachers' Association, the second largest in the country notwithstanding the fact that Iowa ranks only fifteenth in population. A Better School Commission was appointed which, after investigating the educational problems both of the city and of the country quite thoroughly, made a number of recommendations, the majority of which were enacted into laws by the recent legislature. Included in these recommendations thus made into laws were a minimum wage scale making the teacher's salary dependent upon the grade secured in the examination for a certificate; making it possible for school directors to buy additional land and improve it for playground purposes; changing the manner of selecting the county superintendent and removing that office from politics; compelling the teaching of elementary agriculture, domestic science and manual training in all the public schools and granting state aid to consolidated schools having suitable grounds and necessary equipment for the teaching of agriculture and home economics.

While all this was being done in Iowa the Kansas legislature was enacting a number of new school laws which can hardly fail to make that state take still higher rank in the educational world. Chief among the new Kansas laws is the one opening up the schoolhouses as community centers for meetings and entertainments of all kinds. The new Kansas law which might well serve as a model for other states, reads as follows:

The district board shall have the care and keeping of the schoolhouse and other property belonging to the district. They are hereby authorized to open the schoolhouse for the use of religious, political, literary, scientific, mechanical, or agricultural societies, or societies for the suppression of crime belonging to their district, for the purpose of holding the business or public meetings of said societies, under such regulations as the school board may adopt; but it shall be unlawful for the school board to act arbitrarily or partially in the matter of prescribing regulations for the use of the schoolhouse; and any abuse of their powers by the school district board may be corrected by the district court through mandamus or injunction on the application of any of the aforementioned societies.

This movement to unlock the schoolhouse door is making great headway throughout the grain belt. Dr. Frank Crane, one of the eminent divines of the middle West, has this to say of the new movement, in a recent article:

There are four purposes to which every schoolhouse might be used for the benefit of the people of afternoons and evenings:

Music.

The theater.

Dancing and reading, including the library and reading room.

Before this can be done we shall have to grasp the idea that it is the duty of democracy to look after amusements as a means of culture and as a function of self government and to see that amusements have a deal to do with the morals of the people.

One thing we might do right now is to provide a cinematograph in the schoolhouse. Nothing ever devised so combines amusement and instruction as the moving picture show. Why cannot the people take it over?

The schoolhouse is the one institution wherein the people realize themselves as a unit, bound together, not by sect, clan, class or creed, but simply by the supreme fact that they are all human beings.

The schoolhouse is the nest egg of millennial democracy.

The Kansas law is akin to that already in force in Wisconsin, where any local organization of citizens that is neither partisan, sectarian or exclusive can, by right of citizenship and not by grace of any school board, make social and public use of any school building. The Wisconsin law makes the cost of lighting, heat and janitor service a charge not upon the particular organization, but upon the community.

This movement has gained such headway that in one of the large towns of the grain belt a school board has recently made an appropriation for lighting the building, this being the first time in its history that any attention has been paid to the matter of making the buildings available for use after sundown.

A FEEDING FLOOR FOR HOGS.

The importance of keeping hog troughs and feeding yards clean cannot from the standpoint of sanitation alone cannot be overemphasized. Even with troughs of the very best design food will become contaminated if these are allowed to sink into the mire. More and more swine breeders are solving this problem by building feeding floors and a little advice along this line comes from an Indiana subscriber in the following communication:

A good feeding floor is practically a necessary part of every hog yard where any considerable number of swine are fed. Frequently in one season a feeding floor properly constructed will pay for itself in the saving of feed effected, to say nothing of its great convenience. It is of the greatest value in muddy times when it is impossible to feed on the ground without compelling the hogs to dig their feed out of the mud, and, of course, all the feed the animals don't get is wasted. Even the troughs in which the animals are given their slop and water are almost mired in the mud at such times and it is utterly impossible to keep them clean and sanitary. On a feeding floor, however, the troughs can be kept fairly clean at all times in the year. During the winter when there is a heavy snowfall that on the feeding floor can very easily be shoveled off and the floor will then be free for feeding purposes.

The feeding floor is just as necessary in summer as in winter. With the arrival of warm weather the feeding lot soon becomes a bed of dust in which the feed must be thrown if there is no feeding floor. Not so much of the feed may be wasted then, perhaps, but the cloud of dust in which the animals must eat is very detrimental to their health.

The best material from which to construct a feeding floor is concrete, prepared about the same as for a walk. Concrete is not only cheaper than lumber in the long run, but it is much better in other ways. Each hog should have at least ten square feet of floor space on a feeding floor. This calls for a floor about 16x32 feet in size for fifty hogs.

A tight board fence should be put around the floor. This fence should be about four feet high. The lower board of the fence should come within about two inches of the floor. The space beneath this board is necessary to permit the escape of water and filth during rains and when the floor is being cleaned. A fence around the feeding floor makes the latter of more value in many ways at all seasons, and it is almost necessary where much winter feeding is to be done, in order to protect the animals from cold winds. A hog will not stay out in a sharp wind long enough to eat a full ration, but with the tight high board fence surrounding the floor to break the winds, the hogs will experience very little discomfort in the very coldest of weather.

It is not advisable to put a roof over the floor. The uncovered feed floor can be kept much sweeter and cleaner, as on clear days the bright sunshine has free acess to every part of it some time during the day. A covered floor is always more or less damp and sour in spite of anything that can be done.

Gates should be set in the fence at each end of the floor. An entrance gate about eight feet wide should be set at the back of the floor. A gate of this size will permit the pigs to enter in a hurry without danger of injury after their feed has been placed. This plan of putting out the feed before the pigs are allowed to enter is one of the advantages derived from the use of a feeding floor. The entrance gate should open in, for when the pigs are kept shut out until their feed is in place it is next to impossible to open the gate against the hungry, waiting lot.

Troughs should be placed along both sides of the feeding floor. This will give sufficient trough room for all the pigs at one time without their being crowded. A feeding floor properly constructed will last practically for all time so far as the floor proper is concerned. The fence surrounding the floor will have to be renewed after a time, of course.

A feeding floor of this character can be used not only for the location of feeding troughs, but also for the feeding of ear corn. In soft weather it is advisable to flush it off frequently and in order that this may be done effectively with but little labor the suggestion should be carried out of building the floor so that it is slightly higher than the surrounding surface.

MEAT PRODUCT PROSPECTS.

A million and a half fewer cattle than a year ago. So say the government statistics. The figures are startling. They are made still more impressive by the announcement that the numbers of sheep and hogs have also suffered a marked decrease. The actual figures given for the decrease of cattle are 1,432,000 head, sheep 880,000 and hogs 4,232,000. There is no reason to doubt the reasonable accuracy of the figures.

They mean that the meat supply of the present is less by a billion and a half pounds than a year ago. They mean that at a fair valuation of five cents a pound, the farmers of the United States have suffered a loss of income of nearly one hundred and thirty millions of dollars.

The number of cattle put through the markets at the principal stock yards points was smaller last year than in any year since 1902. At those points the high tide of receipts of cattle was in 1907, when 9,590,710 were marketed. Since that year there has been a gradual decrease until the last year the reports show receipts of but 8,103,068 head.

There is, from one point of view, some satisfaction in the fact that the values of cattle have increased to $26.36 per head as against a ten-year average of $17.80.

With reference to beef cattle, considerable interest attaches to the situation in different states. Texas leads with 5,022,000 head, having a valuation of $113,497,000, or $22.60 per head. Iowa follows with 2,607,000 valued at $33.00 per head. Nebraska has 1,902,000 estimated at $32.40 each. Kansas has 1,778,000 with a value of $33.40. California has 1,454,000 with a value of $29.20. Missouri has 1,444,000 valued at $31.10. Illinois follows with 1,228,000 having a value of $31.50. Oklahoma has 1,155,000 valued at $27.60. Minnesota has 1,139,000 at $20 each and Wisconsin 1,135,000 at $21.70 each. No other state has a million cattle. The lowest valuation per head is in Alabama, where the figure is $10.10.

Milk cows are not considered in these calculations. The total number of these in the United States is given at 20,497,000, the average per head $45.02, and the total valuation $922,783,000. Wisconsin heads the list with 1,504,000, New York follows with 1,465,000, Iowa with 1,337,000, Minnesota 1,129,000, Texas 1,034,000 and Illinois 1,007,000. The highest valuation is in Montana, where the figure is $61 and the lowest Alabama at $27 each.

THE COST OF A COLT.

As having a bearing upon the profits of horse raising, as well also as upon the cost of the labor of the horse utilized on the farm, recent statistics gathered by the Bureau of Statistics of the United States Department of Agriculture are of interest. The average cost of a colt which has reached the age of three years is $104.06 for the entire United States. As an offset it is estimated that the colt will have done work enough before having reached his third year to reduce this cost $7.52, or to the net cost of $96.65. The selling value of a three year old is put at $136.17. Of course, there is a wide variance in costs in different states. For instance, in Rhode Island it is given at $156.60, Connecticut $149.98, Massachusetts $141.80, Wyoming $71.59, New Mexico $69.50.

The different items of cost are enumerated as follows: Service fee, $12.95; value of time lost by mare in foaling, $10.06; breaking to halter, $2.22; veterinary service, $2.04; care and shelter first year, $4.98; second year, $5.36; third year, $6.35; cost of grain fed first year, $4.98; second year, $7.14; third year, $9.56; hay first year, $4.14; second year, $6.61; third year, $8.48; pasture first year, $2.56; second year, $5.41; third year, $6.21; other costs, $5.01; total, $104.06.

The total cost for all feed is $56.39, being $21.68 for grain, $19.23 for hay, $14.18 for pasture, and $1.21 for other feeds. The total cost of care and shelter is $16.69. Of the total cost, 54 per cent is charged to feeds, 16 per cent to care and shelter, and 30 per cent to other items, as enumerated.

During the year 1912 the seven principal markets of the country received thirteen million six hundred ninety-six thousand four hundred and one cases of eggs, which was around a half million less than the previous year. May was the banner month, so far as production was concerned. The shipment of that month ran up to two million seven hundred and eighty-eight thousand nine hundred and seventy. In June there were only three hundred and seventy-eight thousand four hundred an sixty-seven cases.

CONDEMNS STALLION LAW.

A number of communications have been received since the change was made in the Iowa stallion and jack law which requires in the future that certificates of soundness be obtained from veterinarians in order that these might be submitted to the secretary of the state board of agriculture and the owner obtain thereby a permit certificate. These communications have come not only from stallion owners, but from those who have no financial interest in stallions save only that they are raising a few colts each year. Such a communication comes from Mr. Foster Trueblood, of Henry county, Iowa, who says:

I read with a great deal of interest the communication of Mr. P. F. Smith, in a recent issue of The Homestead. Although I do not handle stallions yet I have an interest in the horse industry and I can see that such laws must in the near and remote future work exactly in the opposite direction to which they are intended. I would agree with Mr. Smith that the owner of the stallion who handles him every day is in a much better position to furnish a certificate of soundness than is the veterinarian, and the affidavit of the owner should be sufficient without putting him to an additional expense of employing a veterinarian. I know a number of horsemen who are planning to sell their stallions and we have none too many to select from at the present time. We are not dealing with a theory in this neighborhood, but with an actual condition and I can see now that we will have to go farther and farther away for breeding purposes during the very time of the year when we should be at home. Men who have in the past had courage enough to purchase good horses are no longer inclined to make this investment because they fear that their horse might be disqualified the first time he is examined. The blow, while it is intended for the man who would traffic in unsound horses, really hits the ordinary farmer who raises a few colts annually. I predict that those states that show wisdom enough to handle this matter from the right end will, in the future, reap their reward because they will have the horses and prices will soon be higher than ever before because the supply will be more limited than heretofore.

The law, of course, is now enacted and the results of its enforcement must be abided by for at least two years. What this subscriber says about being squarely up against "condition" and not "theory" is well worth pondering over. If the law drives the good horses out of a single county in the state it will work an unwarranted hardship on the farmers of that county. We concede to no man or to no body of men the right to go further in the advocacy of using good stallions than will The Homestead, but if the choice is to be taken between the plan of having the people use the best horses they can patronize and that of having no horses at all we will choose the former. It is not that we fear the unfairness of veterinarians or anything of the sort in the enforcement of this new law, but simply that the expressions from our subscribers would seem to indicate that it has had the effect of intimidating men who might otherwise invest in good horses.

COST OF POOR ROADS.

The cost of bad roads is strikingly set forth by Wm. C. Redfield, secretary of commerce in President Wilson's cabinet, in this manner:

The inefficiency arising from bad roads makes it cost something like $300,000,000 a year to cart our cotton crop from the fields to the railway station. I think few people realize the immense tax put on us all by bad roads and inefficient handling.

I have said that if our farmers once realized the awful tax that bad roads impose upon them public opinion would sternly demand the making and maintaining of good roads everywhere. It now costs the farmer twelve, yes, twenty or more, times as much per ton mile to move his goods to the railway station as it does to move them on the railway after they leave the station. The farmer, indeed, in bad cases and at certain seasons may have to pay as much as $1 a ton mile, while the railroad carries the freight, when it once gets it, at an average of three-quarters of a cent per ton mile.

Among the factors which bring up the cost of living there are few which stand ahead of the useless cost of transportation, due to poor and often impassable roads. Poor roads not only make the consumer pay more for produce, but they rob the producer of that which should be added to the price paid him for his produce. There are few subjects on which the public is so unanimous as this one of the cost of poor roads, and yet at the same time few subjects on which it is harder to make people agree as to the remedy and where the initiative should be taken.

GROWING COWPEAS FOR SEED.

This paper does not presume that any large area of cowpeas or soy beans will be grown in the corn belt in the immediate future. This is not equivalent to saying aught against the crop. The prices at which peas have been selling for a number of years would indicate that those who grow a few acres will gain good revenue from their land. This point is referred to in a communication from a Missouri subscriber who has had some experience with the crop. Among other things he says:

With the price ranging around three dollars per bushel for the last few years, it would seem that there is profit in saving the seed. This does not necessitate the loss of the hay, and when planted in rows and cultivated they may still be cut with a mower, and shocked as usual. Use a corn planter with plates of the proper size and "double row." That is, plant rows the distance the planter is set, then split the middles, making the rows about twenty-two inches apart. A single plow may be run between the rows, or one shovel taken off the cultivator, and plowed with two horses. This cultivation will give the vines a start of the weeds, and they will soon cover the ground. When the peas are half ripe, they should be mowed and raked. Haul them directly from the field to the separator. By removing half the teeth and concaves a grain separator will clean the peas. It would be best to blow the hay right into the barn as the seeds were separated, but where this cannot be done the hay should be baled. It is not likely that all the peas will be separated, but their value will still be preserved in the hay.

On account of the high price of seed we would advise no man to go into the business extensively in the beginning. An area, say of five acres will answer all the purposes of experimentation and in all probability there will be snug profit at the end of the season. The seed is handled by practically all seedsmen and in ordering the earlier varieties like Whip-poor-will and New Era should be specified. The later varieties are not apt to mature the seed, in which case the crop could be used only for hay.

THE TRAVELING LIBRARY.

George B. Utley, secretary of the American Library Association, in a recent address calls attention to one of the factors which is playing an important part in bringing town and country still closer together and in giving to the farmer the advantages at one time enjoyed exclusively by the city man. Mr. Utley's subject was the success of the rural traveling libraries, in regard to which he said:

The rural traveling libraries are conducted through what is known as the state library commissions, bodies which have been authorized and created and organized by acts of legislature. They use state funds and are a part of the state machinery. The work began in Massachusetts in 1890. Following the move of Massashusetts to carry library work into smaller communities came New Hampshire, then Wisconsin with one of the best commissions we have, and then Ohio, until now we have thirty-one states with these state library commissions doing work with funds appropriated by the legislature. One of the principal functions of the state library commission is to establish these rural traveling libraries. There is an effort on the part of all good, serious-minded people to combat the tendency of people to live in the cities, and to make people contented with the country. The advantages which country people have now make it more worth while living there. There is the rural free delivery, the better roads which have been the result of automobiles, telephones and now comes the traveling library. At present about 45 per cent are reached by these libraries. Every state has a library worker to go out into the country among the people to learn the needs of the people of all conditions, and to study how to meet them. Sometimes people are anxious for libraries, in other cases they have to be persuaded to take them.

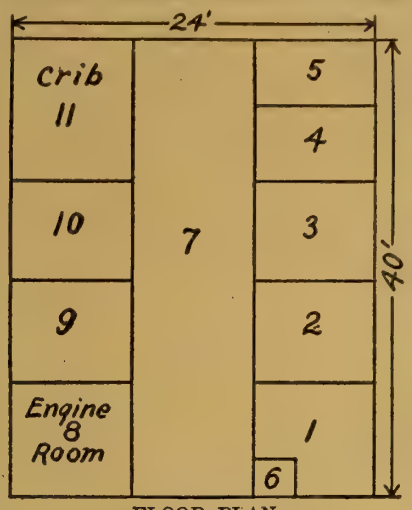
The work in Massachusetts and Maryland has been a great incentive and object lesson to the grain-belt states, which have not been slow in modeling their systems after those so successful in the East. By means of regular traveling library wagons even the most remote communities have been kept in touch with the best thought in current and classical literature and one of the reasons for quitting the farm for the town has been dispensed with. At the same time the work of the traveling library commission in the grain belt is still in its infancy.

A Good Type of Hog House.

By Chesla Sherlock.

THERE are numerous buildings in use that are expected to answer all the requirements of an inexpensive hog house. The majority of them, however, are not satisfactory.

We do not know of a single sort of building that has caused as much trouble and dissatisfaction and about which so little is known as the hog house. The accompanying illustration shows the appearance of a hog house in actual use that has proved satisfactory in every respect. It is located on the farm of Mr. W. F. Long,



FLOOR PLAN.

near Hayesville, Iowa. While the general type and appearance of the building has long been familiar to hog growers, the dimensions and interior arrangement are purely of original design.

"I had quite a time," said Mr. Long recently, "in finding a type of house that seemed practical. Each year I thought of better accomodations for my hogs, as well as myself, but the task of designing a house coupled with the fear that I might make serious mistakes caused me to put off building several years.

"Finally, I noticed a small photo of a house something on the order of one I have since erected. I had nothing to guide me but this mere outline. I managed to figure it out, after a lot of trouble, and this house is the result.

"My greatest problem, I found, was whether I was getting the windows at the right height and angle to catch the March and April sunshine in the pens. The most important thing to take into consideration in building a hog house is to get the early spring sun. After April it is not so important if you can only get it early in the year.

"Even after the house was nearly finished and I was positive that my calculations were correct, neighbors told me the windows were too high. One man even pointed out the experience of his own failure. I allowed the greater part of this gossip to pass in at one ear and out the other, but I was rather nervous until March and April came and found that I had judged correctly.

"I did every bit of the work myself and in figuring up the cost of the building I did not count my own labor. The actual money cost has been $350, but when I have added a few little luxuries, as planned at first, the total cost will be $450 complete.

"For years I have managed to exist with old sheds and small pens, which were a terrible nuisance, to say the least. Now, when I can manage every hog on the place under the same cover and have everything convenient, I feel like kicking myself for being so slow in erecting a good house."

It cannot be doubted that Mr. Long would also like to kick his fellow farmers, who, like himself, are continually putting off the erection of a suitable house to care for their hogs, in an effort to wake them up and let them in on a good thing.

The house is 24 feet by 40 feet in size and is 18 feet high at the highest point. This size house will provide ample accommodations for the usual number of hogs grown on a 200-acre farm.

The floors are of concrete six inches thick, while the outer wall or foundation is eight inches thick. One hundred and sixty sacks of cement were required for the floor.

The house is divided the long way into three sections, each section being eight feet wide and forty feet long. At present the center section is used as a driveway, but Mr. Long intended it for use as a feeding place for the animals during bad weather.

There are two rows of pens, which are arranged on each side of the driveway and they, also, are eight feet in width and forty feet long. The south section of pens is divided into five pens each eight feet square. Pen No. 1 is used during the warm months for a wallowing pen, as it is made four inches lower than the others, thereby allowing water or dip to be turned into it. It is needless to say that this pen is much in demand during hot weather.

In one corner of this pen is found a watering device which is fed from a concrete tank located near the windmill. This watering device is of the common float-operated type, but Mr. Long has changed it somewhat, in that it is built into a small concrete tank. This prevents the water freezing during cold weather, as sufficient padding and insulation is provided to keep the water above freezing temperature.

The other four pens on the south section are merely of the regular type. At present only two pens on the north section are being used for the accommodation of the hogs. Pen No. 8 will be fitted with a gasoline engine and proper appliances to grind all feed needed for use on the farm. The engine will be portable, so that it can be taken to all parts of the farm to perform various tasks, such as pumping water, sawing wood, filling silos and a hundred and one other tasks too numerous to mention.

HOG HOUSE WITH ENOUGH SUNSHINE.

Pens No. 9 and 10 are used as individual pens for sows at farrowing time and are found especially convenient early in the season, as they catch plenty of sunshine from February to May. Pen No. 11, which is the equal of two of the other pens, is used as a corncrib and will hold 430 bushels of corn at one time. A sort of loft or mow is built above the north section to hold plenty of straw at hand for use as bedding. This has been found very convenient. With water, corn,

(Continued on page 28.)

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Clover seed is so high in price this spring that everyone remembers how good a stand was once secured by sowing a remarkably small amount of seed. It certainly is too high priced to sow more seed than is necessary.

Grass seed is quite the opposite of clover, so the mixtures are very apt to contain more grass than clover. Where wanted for pasture this is not always a bad failing.

I am a great believer in planting corn a medium and uniform depth. Going deep to reach moisture or planting shallow to escape moisture is not always the right thing. The deep-planted seed may be flooded and the shallow planting be dried out.

When a number of sows are farrowing close together, and some litters are large and others small, it is often possible to take from the large litter and give to the small, thus evening up the numbers. It is a good idea, however, to watch matters for awhile, to see that the adoption is going to prove successful.

If you want to sow a mixture of grass seed, it is my advice to buy the several kinds you wish to sow and do the mixing yourself. I know of several neighbors who bought seed already mixed, and the mixing was done with view of economy, rather than in consideration of the proportion the mixture should contain. Some even had every appearance of being floor sweepings.

Farms that are lacking in natural timber should be producing an artificial grove. I have ten to twelve acres of natural timber on this farm, yet a half acre was set to catalpas a few years ago, and now I wish it had been three or four times as much. I consider the catalpa one of the greatest trees we have.

Good timber is becoming so scarce that wagon and vehicle makers are beginning to wonder where they are going to get good stuff, particularly for wheel material, a few years hence. The iron wheel is all right when the height is low and the tire broad, but I am afraid it never can be made to exactly replace the common height of wheel used on farm wagons and buggies.

It seems to me that blacksmiths do not get as many jobs of pointing cultivator shovels as they used to. I can remember when it was a common thing to make a set of shovels last for years and years, but they are so much cheaper now that when a set has become badly dubbed off it seems cheaper to buy new, rather than have the smith stick on new points.

A sow can be kept too long, and often many of us keep some old thing a year too long. We wait until she fails with a litter before shipping her. I have one that has a complete failure chalked against her, and now she will go to market as soon as she can be made ready.

It may not pay to keep any very great surplus of corn in the cribs, yet it is sometimes mighty comforting to know that it is there. One year with another, counting out shrink and interest on its value, I doubt if there is profit in holding corn from one season to the next, but it sometimes comes in handy to have to feed out a bunch of hogs when no one else is feeding because of a corn shortage. At such times the price is usually right.

The weather man handed us a whole case of London without any trimmings, as far as getting into the field is concerned during the first half of April. We needed the moisture and perhaps this rain and snow are just what we needed to give our annual bumper crop a start.

Co-operative shipping associations are being organized in many parts of the corn belt. Their main feature is to give those who market less than a carload of hogs or cattle at a time a chance to club together and sell their live stock at the larger markets, thus saving the slice that goes to the local buyer. The theory is sound and in time will win out. There are altogether too many slices taken from the farmer's product before it reaches the consumer.

Water will change the best of earth roads into a streak of mud in a very short time and right here is the kernel of our road problem. How shall we keep the water from soaking into the traveled part of our roads? There are many who seem to be willing to tell us how, but very few are able to "show us." Tiling and dragging are the only things that have "delivered the goods" to date.

Cattle that are given the run of the farm will be sure to smell the grass before it shows above the surface and will promptly turn up their noses at the very best of dry forage that can be put into the manger. When forage is as plentiful as it is this spring it is best to keep the cattle in the yard until the grass gets a fair start.

There is a movement on foot to employ an expert to every county to give the farmers the latest information on how to raise and care for crops and live stock. This looks good on paper and if enough "experts" can be found that are made up on the basis of nine parts diplomat to one part expert it may be a success.

Everything points toward a bumper crop of apples this year. The buds are late enough so that Jack Frost will hardly dare come back and breathe upon them and the trees have a hearty look. This will be a favorable season to spray a few trees "to see how it works."

In confining any animal, especially a male that is used for breeding purposes, it always pays to make the confinement strict and safe right at the beginning, as one break out practically ruins such an animal, and if he can be confined at all after one of them it will require a much better and stronger fence than it would have taken in the start.

Spring is here and the man who has horse power is lucky. Horses may be pushed off the earth by the gas tractor some day, but the man who must buy one or more at present is not finding bargains in bunches.

The grain drill is a costly piece of machinery, and very easily damaged by rusting, cracking and warping if left out in the weather. Keep it in shelter, unless it is actually in use, and then try to drive it to some shed or barn every evening after using it in the field, or if it is not to be used again for a day or so.

The motorcycle and the bicycle may appeal to many farmers as a sort of joke, so far as practicability goes, but either of them could be made to fill an important position on ninety-nine out of every hundred farms. They are much quicker and easier put in condition for whisking to town after some much-needed repairs for the hay tools, implements, etc., than the team or automobile; the trip can be made just as quickly or a little quicker and the expense is practically nothing.

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This is shown by the fact that Goodyears far outsell the rest, after 2,000,000 have been used.

Our sales last year were larger than the previous 12 years put together.

That's the result of testing these tires on hundreds of thousands of cars. Men have proved enormous savings.

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(1082)

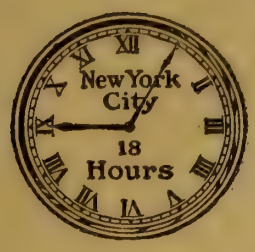
CURRENT EVENTS

THE long anticipated break between the Balkan allies has occurred and Greece and Bulgaria are concentrating their troops with every evidence of starting war against each other in the near future. The prime cause of difference is the possession of Saloniki, one of the strong strategic points captured from the Turks. While the allies are thus confronting each other another armistice has been arranged with Turkey, the powers having intervened, with prospects good of peace being declared in a short time, Turkey retaining Constantinople and a small tract immediately contiguous thereto and surrendering the remainder of its European territory to the allies. The King of Bulgaria is of foreign birth and has long been ambitious to build up an empire. Seeing his opportunity in the Turkish war he has pursued an imperial policy, demanding possession of the greater part of the territory captured by all the allies. Under the late King George and under the present King Constantin, the Greeks waged a successful naval campaign and are entitled to almost an equal share with the Bulgars who now deny them the right to the chief spoils of war. With these two allies thus antagonized and with Montenegro opposing Austria-Hungary and denying the authority of the big powers, the Balkan federation is in a sad way, although the Turk is now so crushed that it is doubtful if he can take advantage of the situation.

CALIFORNIA'S attitude on the alien land ownership problem continues to embarrass the Wilson administration. During the past week Secretary of State Bryan and President Wilson were in frequent communication with Governor Johnson and the California legislature, urging that no bill be passed which in any way abrogates or conflicts with the present treaty between the United States and Japan. Notwithstanding repeated assurances by Governor Johnson that no such action was contemplated, the legislature persisted in discussing bills which are considered by Japan as a serious affront. The situation in Tokio has become so critical that numerous mass meetings have been held in which speeches against the United States have been delivered. President Wilson proposes, should the California legislature insist upon singling out Japan and forbidding its citizens to own or to lease real estate, to refer the matter to the California people on a referendum vote. Failing in this he is hopeful that the courts will set aside the legislation. In the meantime the Japanese government is holding matters in abeyance, accepting the assurances of the Wilson administration that everything will be done to avoid serious trouble. The conflict arises over the efforts of the California legislature to make it impossible for aliens, who are ineligible to citizenship, to own or lease large tracts of land which might be used in the event of war between the two countries.

FERVENT faith in Christianity was the dominant keynote of the remarkable will left by the late J. Pierpont Morgan. Before making any bequests or entering into the disposition of his property in any manner, the famous financier wrote this striking declaration of faith: "I commit my soul into the hands of my Saviour, in full confidence that having redeemed it and washed it in His most precious blood He will present it faultless before the throne of my Heavenly Father; and I entreat my children to maintain and defend at all hazard, and at any cost of personal sacrifice, the blessed doctrine of the complete atonement for sin through the blood of Jesus Christ, once offered, and through that alone." The value of the Morgan estate is not disclosed, but it mounts high into the hundreds of millions. The great bulk of his property is left to his son, every man in his employ at the time of his death being remembered with a generous bequest and numerous large amounts being left to favorite charities. Mr. Morgan requested that his famous art collection, the greatest in

The Wonderful Jeffery Service to Owners



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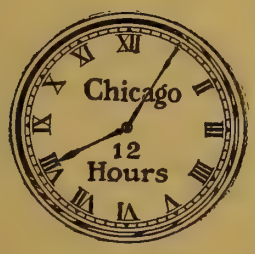

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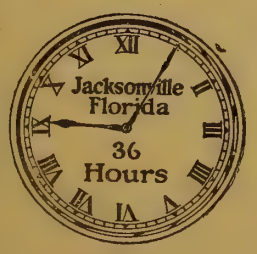

The clock faces show the time it would ordinarily require for the owner to get a part after his order reaches one of our distributing points.

A beautiful four-color reproduction of the Cross Country, from an oil painting by R. Philip Brainard, is ready for mailing. See the Cross Country by all means, at any Jeffery branch or dealer's display room, but send for the picture anyway.

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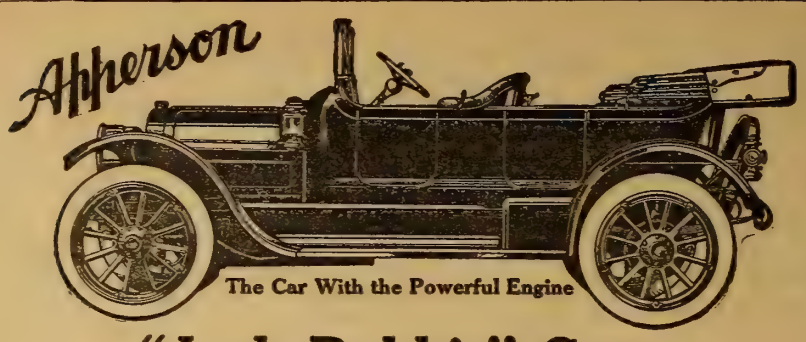

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Still in use, are Apperson-made cars 17, 18 and even 19 years old.

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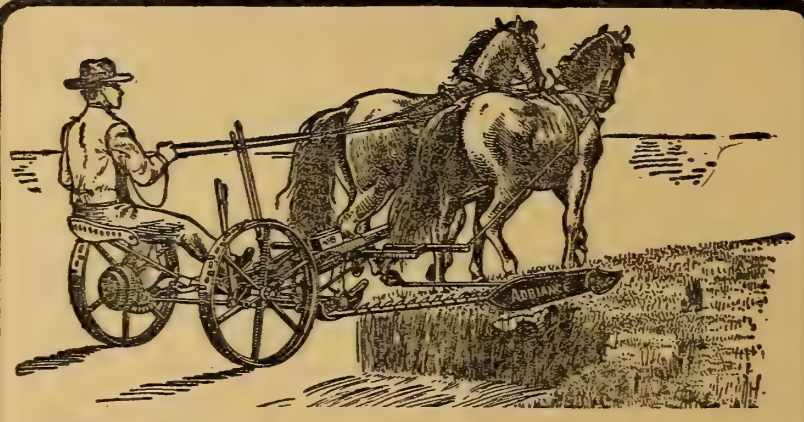

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From the ground up, every piece of material entering into the construction of the Adriance is most carefully selected and is the best that money and skill can produce.

It is very simple in construction. The main frame is a single piece—wonderfully strong and rigid, insuring perfect alignment of shafts and mesh of gears. It is the easiest to handle. The levers are handy and easily operated from a comfortable position in seat. One easy forward acting foot lever in front of the driver does the work with natural movement of the leg.

It is the lightest draft Mower on the market. The patented Adriance Spring Draft Device lightens the draft and completely overcomes shock or any danger to the driver, team or mower should any obstruction be struck.

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this country and one of the greatest in the world, be devoted permanently "to the instruction and pleasure of the American people," but he did not bind his heirs absolutely to this disposition of his treasures. That he was a devout Christian was one of the traits of the many-sided Pierpont Morgan of which the business world was not aware, knowing him rather as a captain of industry and a financier whose money power was greater than that of any man who ever lived.

ROALD AMUNDSEN, discoverer of the south pole, hopes to have the honor of being the first to navigate a ship through the Panama Canal. He has applied to the war department for the privilege to take his famous vessel, the Fram, through the canal at the start of his voyage to the arctic regions next winter, and Colonel Goethals, builder of the canal, reports progress so satisfactory that there is good prospect of the canal being so near completion that a vessel can be sent through it within the next eight or ten months. If the Fram has this honor it will add to its long list of notable achievements. It was the vessel in which Nansen, the famous Norwegian explorer, reached the farthest north prior to the discovery of the north pole; it was also the vessel in which Captain Amundsen discovered and navigated for the first time in history the northwest passage; also the vessel in which Captain Amundsen voyaged to the south pole. Captain Amundsen hopes to take the Fram further into the arctic circle in his forthcoming expedition than it has ever been before, it being his plan to drift, if possible, clear to the north pole, proposing to spend five years in the undertaking hoping to be the only man to reach both the north and south axes of the world.

MAY 5th is the date set for the introduction of the tariff bill into the senate, it being confidently expected that the house will have taken favorable action upon it by that time. The democratic ways and means committee of the house accepted the bill in its entirety and recommended it for passage last week, the republican and progressive members of the committee uniting in an adverse minority report. The debate was limited to five days, so that little time will be lost in getting the tariff revision bill through. The senate finance committee has decided against public hearings, although granting the privilege to interested persons of filing briefs or statements bearing on any of the tariff schedules. President Wilson was entirely successful in his efforts to secure free wool and a gradual reduction of the sugar schedule. There is every prospect that the house will pass the bill by a large majority. The real fight will come up in the senate, where the democratic margin is but small and where a falling out in the democratic ranks is anticipated in many quarters.

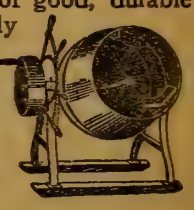
PERSONAL and political difference between Wm. J. Bryan, secretary of state, and Champ Clark, speaker of the house, were patched up at a recent meeting of the two men. It will be recalled that at the Baltimore nominating convention Speaker Clark received a majority vote long before Governor Wilson received the necessary two-thirds vote. It has always been customary for the democratic party to give the candidate receiving a majority vote the necessary two-thirds and the nomination, but because of the stand taken by Mr. Bryan Speaker Clark failed to receive the necessary number and the honor of leading his party to the White House. The feeling was so bitter between the men for a time that it was expected Mr. Clark might be defeated for reelection to the speakership and it was freely predicted that the two men would be unable to serve harmoniously in the prominent places they now occupy. That peace has been restored between them is not only extremely gratifying to President Wilson, but also shows that the break in the party ranks, which has been frequently predicted, is apparently quite remote. Wm. R. Hearst, the newspaper publisher, has come out in a strong and biting attack on President Wilson, but this is the only public evidence thus far of any falling out in the ranks, while President Wilson has the people with him so strongly that he has lost practically no prestige as a result of the Hearst attack.

AT THE end of one week of the industrial strike in which one-half million Belgian workers were engaged, the Belgian government has receded from its position and promises to grant the electoral reform demanded. A special session of Belgium's congress will be held, at which the unjust laws by which votes are apportioned according to position and education will be repealed. This is the first time in history that a political reform has been won by means of an industrial strike. The week started with 250,000 workmen leaving their posts and closed with fully one-half million men on strike. The best of order was maintained throughout the week, however. The loss to Belgian industry is estimated at many millions of dollars and became so serious that the government gave in much sooner than had been anticipated. Under the prevailing system Belgian citizens are entitled to votes according to their age, the amount of taxes paid and position held. At the last general election the number of voters was 1,700,000, of which 995,000 had one vote, 395,000 two votes and 310,000 three votes. The strike was for uniform suffrage, giving to every man but one vote, a reform which, unless the Belgian government fails to keep its word, will shortly be granted.

AFTER a protracted illness, which several times promised to be fatal, Pope Pius X. is now on the highway to recovery, although his advanced age makes an active resumption of his high duties out of the question for some time to come. His condition was so serious for a time that the last rites were administered to him and it was generally feared that the demise of Leo's successor was imminent. The pope was greatly cheered by a dream which he had, in which his dead sister appeared and said that his time had not yet come. Pope Pius is a man of extremely simple personal habits, enamored of his family, so that the presence of his sisters, brother and favorite nephew went a long ways toward restoring him to health. He has broken a number of the rules of the Vatican, chief among them being the one prohibiting any woman from dining with the pope. Pius has frequently had his sisters share his table with him, enjoying their presence immensely. He is a man of great humanity, broad charity and undoubted goodness.

CONCRETE MACHINERY

Did you ever stop to consider that the secret of good, durable concrete is largely due to the mixing; that no matter how careful you may be in getting the proportions correct, if it is not properly mixed it is worthless?



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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

EXTREME SANITATION NECESSARY WITH POULTRY.

To the Editor of The Homestead:

A great many questions have come to me recently asking why farm hens are more apt to become subjected to disease and various pests than hens kept on commercial or fancy poultry farms.

At first thought it would seem absurd to even think for a moment that farm poultry is more liable to suffer the effects of disease and pests than poultry kept elsewhere than on the farm. It would seem as a direct insult against every American farmer and his intelligence.

Lately I have given the matter more thought and in traveling around the country visiting various farm homes I have taken special care to observe the farm flock with this thought in mind. What I found and the conclusions I have drawn are based on actual facts as gathered from the various farms visited.

I was surprised to find that the contention that the farm hen is liable to suffer all the ailments on record had a good deal of truth. Please understand that I do not mean by this statement that simply because a hen lives on a farm, she is hopeless and will have all the diseases known and common to poultry. What is meant is that for some peculiar reason farm fowls, generally, give more trouble than other hens.

It took quite a while for me to decide what was the cause of this fact. Invariably I found large roomy houses constructed along the modern idea of what is right in the henhouse line. About 60 per cent of the farms visited boasted of fresh-air houses, dropping boards, trap-nests and numerous other appliances associated with modern poultry culture.

I questioned all the farmers who had scaly-legged fowls or fowls that seemed to be afflicted in any way as to their methods of management; what they fed the hens; how often; at what season of the year they experienced their greatest difficulty, and a hundred and one other questions in an effort to ferret out the real cause of ailing fowls.

The method of management seemed to be all right, the rations fed were satisfactory and in the majority of cases the houses where the fowls were kept were of the very best. It seemed to be the general rule that more trouble was experienced during the fall and spring months than at any other time.

The experience of a visit to one farm in particular will serve as a fair guide to what I found:

On approaching the farm I was pleased with the large barns, hog house and cribs that were everywhere in evidence. Everything was painted in neat colors and had the appearance of belonging to a man that was "fussy" about the appearance as well as the serviceability of his buildings. Concrete tanks and a model henhouse coupled with the fine animals to be seen on all sides filled me with enthusiasm such as can be aroused only on finding an up-to-date farmer with an up-to-date farm.

As said before, the henhouse was a model in appearance from the outside and was of the fresh-air type. It was slightly raised off the ground and, I judge, was built to accommodate one hundred hens. Before entering the house I asked the owner if he experienced any trouble with sick fowls of any sort.

"No" he said, "I never have any trouble with my hens being sick. In fact, there has never been a sick chicken on the place. But, once in a while, some will stand around and sleep themselves to death."

"Ah," I thought, when he mentioned the much-used word "sleep," "we are beginning to get down to the facts."

"What seems to be the trouble when they sleep?" I asked.

"Oh, nothing! We never bother about them. We just turn them into the orchard where they will not have a chance to run with the other hens and let them alone. They usually die."

Doesn't this sound natural? The owner seemed to be very busy and soon took his leave to attend "to the stock." I made a personal examination and found the cause of the "sleeping" hens.

If the outside of the house was a model in appearance, the appearance of the interior could not be suitably explained in the English language. Dropping boards had been made, but, from all appearances, had never been cleaned since the house had been constructed, nearly two years before my visit. The hens had scratched in the litter until it was broken up to nothing and was little more than a pile of dung. The nest boxes were a "solid mass" of filth and looked as though they had never been graced with clean straw. The windows were covered with two-years dust and the muslin curtains were so dusty that fresh air could not possibly come through them. Never have I seen a more dismal looking house—that is, from the point of view of the hens!

The ventilating conditions were such that when the door was closed at night the house was practically air-tight. Pack 100 hens into such a place, with a ton of dung under them, and imagine how long it would take to exhaust the available supply of air. Also remember that a hen breathes seven times faster than a human being and therefore requires several times as much air.

The heavy fumes created by the large mass of droppings and filth were enough to give any hen the desire to "sleep herself to death." Even had the house been properly ventilated these fumes could, to a certain extent, have been eliminated.

I have considered every probable cause that could in any way be responsible for the general trouble with farm hens being easy prey for disease and have decided that lack of proper sanitary conditions has more to do with the matter than anything else. Bad sanitary conditions are nearly always the rule on the average farm instead of the exception. If there is anything that will cause disease to get a foothold in any flock it is improper care of the flock in regard to matters of sanitation.

Where a flock is subjected, for any length of time, to such conditions as found on the particular farm mentioned, it cannot be doubted that the vitality will be weakened and the effect on the following generations of fowls will be noticeable to a great extent.

The reasons why the hens belonging to the commercial poultry farms and to the fancier are not subjected to disease, as a rule, is because due attention is given to the sanitary conditions under which the hens are forced to exist.

It is time for the farmer to wake up and realize that cleanliness is just as essential in the henhouse as it is in his own home. If he would only keep the poultry buildings and yards as clean as he keeps the houses and yards that care for other forms of live stock on the farm, he would be able to do away with, for all time, the bugbear of sick hens.

Polk Co., Ia. Chesla Sherlock.

Co-operative dairy societies draw a large business in Germany. Of the 3,303 organizations of this kind doing business in 1911, 2,520 reported that they sold 757,623,000 gallons of milk in the course of a year, and 2,169 reported that during the same period they sold dairy products to aggregate a value of $58,304,400.

Feed Growing Chicks Right

They must be furnished with the right kind of material if they are to make satisfactory growth of muscle, bone and fe ther. Profit lies in quick growth and early maturity. Rush those cockerels to marketable size and turn them into cash before prices fall. Get the pullets completely developed and ready to fill the nests with fall and winter eggs.

Pratts Baby Chick Food

contains just the necessary ingredients to give them during the first three weeks the best possible start, at a cost of 1c per chick. In boxes and bags, 25c, 50c, $1 up. After the third week mix

Pratts Poultry Regulator

in the ration to aid digestion and make the greatest gain for every pound of feed consumed. 25c, 50c, $1. 25-lb. Pail, $2.50.

"Your money back if it fails."

Our products are sold by dealers everywhere, or

PRATT FOOD COMPANY
Philadelphia Chicago

Eggs From Full Blood Stock Eggs

26 White or Brown Leghorn Eggs	$1.00
13 Barred or White Plymouth Rock Eggs	1.00
13 Silver or White Wyandotte Eggs	1.00
13 White Orpington Eggs	1.50
13 Rhode Island Red Eggs	1.00
13 Black Minorca Eggs	1.00
10 White Pekin Duck Eggs	1.00
10 Indian Runner Duck Eggs	1.00

100 Leghorn Eggs, $5. 100 White Orpington, $5. Others $6 per 100. Send 25c extra for each setting and we will ship by Parcel Post, prepaid. Otherwise by Express. Remit by Postal, or Express Order, on St. Louis.

W. F. CHAMBERLAIN, (*The Perfect Chick Feed Man*)
Dept. 17, KIRKWOOD, St. Louis County, Mo.

We ship quick from St. Paul, Buffalo, Kansas City or Racine.

$7.55 Still Buys World's Champion 140-Egg Incubator

Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder. $4.85. Ordered together, $11.50. Freight Paid E. of Rockies. No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time. Jim Rohan, Pres.

Belle City Incubator Co., Box 52, Racine, Wis.

TELLS WHY CHICKS DIE

J. C. Reefer, the poultry expert, of 1630 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable Free books.

To Prevent White Diarrhoea

Dear Sir: I was losing my young chicks last year by the dozen, when I noticed Walker's Walko Remedy recommended by a lady. I sent (M. O.) for two 50-cent packages to the Walker Remedy Co., U. 12 Lamoni, Iowa, and can say that it not only cured all the sick ones but checked and stopped the disease, White Diarrhoea; and I had fine luck with my later hatchings—raised practically all of them.

Mrs. C. C. Jones, Blackwater, Mo.
—Adv.

Young Chicks

At this time, when millions and millions of little chicks, turkeys and ducks will be incubated into the world, every available human agency will be employed to combat the deadly influences of Gapes, Cholera, Indigestion, Legweariness and hundreds of other fatal poultry diseases. Success depends upon your ability to conquer these diseases. Dr. Hess (M.D., D.V.S.), just twenty years ago, was puzzling over this same proposition and the prescription shown herewith is his solution. It represents

DR. HESS POULTRY PAN-A-CE-A

and no one can dispute the absolute, positive value of the remedy for the above-named poultry diseases, because the best authority on earth recommends them. Don't lose your flock after it arrives—insure and protect the lives of your little chicks with poultry Pan-a-ce-a.

Our Proposition. Feed Poultry Pan-a-ce-a all spring and summer. If you are not satisfied beyond a shadow of doubt that it has cured your chicks of gapes, cholera, legweariness and the like, the dealer is required to refund your money. 1½ lbs. 25c. (mail or express prepaid, 40c); 5 lbs. 60c: 12 lbs. $1.25; 25-lb. pail $2.50. Except in Canada and the extreme West.

DR. HESS & CLARK
Ashland, Ohio

Dr. Hess Poultry Pan-a-ce-a contains:
Potassium Nitrate. An Eliminant.
Nux Vomica. A Nerve Tonic
Quassia. A Bitter Stomachic and Appetizer.
Hyposulphite of Soda. An Internal Antiseptic.
Iron (Sulphate). A Blood Builder.
Iron (Red Oxide). A Blood Builder.
Carbonate of Lime. An Antacid and shell forming.
Sodium Chloride. An Appetizer and Cleanser.
Under the supervision of Dr. Hess (M.D., D.V.S.) the above is carefully compounded and blended with just enough cereal meal to make a perfect mixture.

Dr. Hess Stock Tonic puts horses, cattle, hogs and sheep in the pink of condition. After the long winter on dry feed stock need a tonic. Besides, Dr. Hess Stock Tonic saves feed by increasing digestion. By the old methods of feeding stockmen had to let the hogs follow the steers in order to save some of the grain wasted through non-digestion. It is possible to save a part of this by strengthening the digestive organs. Sold on a liberal money-back guarantee. 100 lbs. $5.00; 25-lb. pail $1.60 (except in Canada and extreme West and South). Send 2c for Dr. Hess Stock Book.

FREE. Dr. Hess (M.D., D.V.S.) will at any time prescribe for your ailing animals free of charge if you will send him full details. Mention this paper and send 2c stamp. 96-page Veterinary Book also free.

INSTANT LOUSE KILLER KILLS LICE

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address **R. R. STEWART, R. 2, Charles City, Iowa.**

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address **DAVENPORT & MACK, Belmond, Iowa.**

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Express prepaid. Circulars free. Address **R. S. Ketcham, Box H, Boonville, Indiana.**

S. C. W. LEGHORNS

CHALK WHITE, six firsts at Des Moines, 1912. Eggs and baby chicks. Write your wants. **J. M. Williamson, R. 1, Des Moines, Iowa.**

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93½. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs. Will Michael, Selma, Iowa.

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

S. C. W. LEGHORNS the very best strains, pure white and good layers. Eggs from utility $3.50, 100, from fancy stock, 75c for 15. Geo. Gaul, Tipton, Ia.

EGGS THAT WILL HATCH From pure-bred farm-raised S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 **A. B. JORDAN, - Moravia, Iowa.**

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

RoseCombBrownLeghorns

20 eggs $1; 50, $2; 100 $3.50. 18 yrs.' experience. Orders filled promptly. Ella Tharp, Mt. Sterling, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

PURE S. C. B. Leghorn eggs from farm flock, $3 per 100. Twenty years a breeder of the Leghorn exclusively. C. V. Douglas, Tecumseh, Nebraska.

S.C.BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S.C.B.LeghornEggs 75c per 15, $3.50 per 100. Baby chicks $12 per 100, farm range. Address Mrs. B. M. Painter, Lewis, Ia.

BABY CHICKS from fancy S. C. W. Leghorns, high-scoring, 10c each. Eggs $1.00 per sitting. M. E. La Shorne, Epworth, Iowa.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. **Mrs. B. C. Maris, Hampton, Iowa.**

LEGHORNS Extra white, Rose Comb, winter layers; eggs 15, $1; 100, $5.00, postpaid. J. W. Osborn, Hanlontown, Iowa.

Eggs For Hatching S. C. White Leghorns exclusively, 15 for 75c, 30 for $1.25, 100 for $3.00. Address Gilford Pitcher, Earlville, Ia.

RoseComb Brown Leghorn Eggs 50c per 15; $3 per 100. Address Plowman Bros., Douds Leando, Ia.

R. C. B. LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. **George E. Banton - - - Epworth, Iowa.**

S. C. Brown Leghorn Eggs from scored farm range stock. 50 for $2.00, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

SINGLE COMB WHITE LEGHORN EGGS Pen 1, 15, $5; pen 2, 15, $1.50; 100, $4. **W. W. PERRY, NEW HARTFORD, IOWA.**

SINGLE Comb Brown Leghorn eggs from silver cup winners. Fawn and White Indian Runner ducks. Write. Mrs. Clyde Nelson, Birmingham, Ia.

S. C. W. Leghorns, Young's. Eggs exhibition matings $2.50, $1.50, $1 per 15; $5 per 100. Chicks $12.50 per 100. Cir. Mrs. Wilson McIntyre, Red Oak, Ia.

EGGLAND EGG FARM S. C. White Leghorns bred to lay. Eggs $1 per 15; $4 per 100. Address **Eggland Farm, Mt. Vernon, Iowa.**

R. C. Brown Leghorn Eggs for hatching. Farm range. Males from high-scoring stock. 15, 75c; 100, $3.50. Mrs. Nelson Hyde, Manson, Ia.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points, 75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

LAYING strain R. C. Brown Leghorns. Bred for winter laying. High-class stock. Eggs, $1 for 15; $4 per 100. Address Geo. N. Urice, Vinton, Ia.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

EGGS for sale from vigorous, farm-raised S. C. W. Leghorns, $1 per 15, $5 per 100. Parcel post or express prepaid. Address A. R. Cochran, Anita, Ia.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock, $2 per 60, $3 per 100. Mrs. Chas. Lasley, Floris, Ia.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

S.C. Brown Leghorns 30 eggs $1.00; $2.75 per 100. **NELLIE CAHOW, GREENFIELD, IOWA**

R. C. W. Leghorn Eggs, $1 for 15, $1.50 for 30, $4 for 100. From prize-winning stock. Ben R. Poortinga, Cordova, Iowa.

LEGHORNS.

S. C. WHITE LEGHORNS Heavy layers. $1 for 15 eggs; $3 per 50; $5 per 100. Baby chicks, $12 per 100. S. C. Brown Leghorns. Silver cup winners. $1 per 15; $3 per 50; $5 per 100. Baby chicks, $12 per 100. Sterling Poultry Co., Box 10, Sterling Ill.

ROSE COMB BROWN LEGHORNS, large, vigorous stock, strictly pure bred, have true Leghorn type, from best strains of layers known to breed. Eggs high fertility, carefully packed, 15, $1; 50, $2.25; 100, $4. Write Geo. Boyce, R. 3, Newell, Ia.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 100. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

EGGS---ANY NUMBER S. C. White Leghorns. Great layers and winners. Choice yards and farm flock. As good as grow. Free catalog. Mary Culver, R 1. King City, Missouri.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $3, 100. I. R. D. eggs $1.25 per setting or $4.50 per 100. Farm range $3.50 per 100. Mrs. G. W. Brockway, Clarksville, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

BUFF LEGHORNS Single Comb, farm range, 30 eggs, $1.50; 50 eggs, $2; 100 eggs, $3.50. Address Adelia Hillman, Lockridge, Iowa.

S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1,50; 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

SINGLE COMB BUFF LEGHORNS EXCLUSIVELY Eggs, $3.50 per 100. Chas. F. James, Lockridge, Ia.

R. C. Brown Leghorns Pure bred, 12 years, fine birds. Eggs $3 per 100; over that, 30c per dozen. Mrs. Laura Mathes, Clarksville, Ia.

EGGS for sale from pure-bred R. C. B. Leghorns, have free range and good healthy stock. $3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

S. C. BLACK LEGHORN EGGS Trapnested 12 yrs. Eggs $1.00 per 15; $3.00 per 100. Fairview Farm, West McHenry, Ill.

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in your orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

EXTRA big-boned, glossy black Langs, black eyes, score 91 to 96. Pullets, cockerels, eggs. Satisfaction guaranteed. Osterfoss Poultry Farm, Hedrick, Ia

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

Langshan Eggs Large black eggs from stock scoring to 94. $1 per 15, $2.75 per 50, $5 per 100. Mrs. Geo. Tutt, Marathon, Iowa.

BLACK LANGSHAN EGGS for hatching. Fine, large-boned, farm stock. 75c per 15 or $4 per 105. Mrs. Jacob Conner, Sigourney, Ia.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

Langshans Choice high-scoring, separate pens. $1 per 15, $3 per 50, $5 per 100. Alex Peterson, Pleasant View Stock Farm, Pomeroy, Ia.

BLACK LANGSHANS Scored by Hale & Bridges. Eggs, $2 per 15; $1 per 15; $6 per 100. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

BLACK Langshan Eggs for hatching, fine, large boned, farm range, score 93-95. 75c per 15 or $4 per 100. Address Mrs. J. H. Trimmer, Anita, Iowa.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

S. S. HAMBURGS.

S. S. HAMBURG EGGS FOR HATCHING Address **H. C. SCHRAGE, BRISTOW, IOWA.**

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific, $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia

ANCONAS.

Ancona Cockerels $2 to $5. Chicks and eggs in season. Send stamp for folder. Order early. Geo. W. Harris, R. 3, Shelby, Ohio.

PHEASANTS.

CHINESE PHEASANTS Eggs from pure-bred birds. Ten eggs for three dollars, packed to carry safely. For information or eggs write T. B. McDonald, Lovilia, Ia.

BRAHMAS.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100 Write at once to Mrs. J. M. Dries, Ashton, Iowa

POINTERS.

—Mrs. James Pedley, Britt, Iowa, as per advertisement elsewhere in this department, will make a reduction on White Plymouth Rock eggs for the remainder of the season.

—Baby chicks from prize-winning Barred Plymouth Rock stock of the very best Bradley Bros. breeding are advertised for sale by Mrs. L. C. Reese, Prescott, Iowa, on page 11.

—Mrs. Jack N. Gatzemeyer, Bancroft, Nebraska, advertises White Plymouth Rock eggs on another page. Her prices are reasonable and her stock exceptionally good.

—The advertisement of C. H. Nash, New Hartford, Iowa, offering eggs from Single Comb Rhode Island Reds, appears elsewhere in this department of The Homestead.

—C. V. Douglas, Tecumseh, Neb., has been a breeder of Single Comb Brown Leghorns for twenty years. In his advertisement appearing elsewhere in this department he is offering eggs for sale at a very moderate price.

—The advertisement of Otto Falkenhainer, Algona, Iowa, offering Single Comb White Orpington eggs for sale, from his regular stock and also from a selected pen, appears elsewhere in this department of The Homestead.

—Mrs. M. W. Coan, Little Cedar, Iowa, writes: "My White Plymouth Rocks are good, pure-bred stock and in healthy condition. My flock is headed by high-scoring cockerels sired by the grand champion at the Des Moines show.

—W. H. Ilsley, Milo, Iowa, proprietor of the White Wing Poultry Yards, breeds White Wyandottes exclusively. In his advertisement elsewhere in this department Mr. Ilsley is making a very low price on eggs for the balance of the season.

—Mrs. S. E. Newell, Audubon, Iowa, has pure-bred Black and White Langshan, Single Comb Buff Orpington, Light Braham and Rose Comb Rhode Island Red eggs for sale, at prices named in her advertisement found elsewhere in this department.

—T. B. McDonald, Lovilia, Iowa, is advertising Chinese Pheasant eggs, from pure-bred birds, for sale in his advertisement appearing elsewhere in this department of The Homestead. For information in regard to the Chinese Pheasants write Mr. McDonald.

—Mrs. Minnie McConaughy, Martelle, Iowa, has three cockerel and two pullet mated Barred Plymouth Rock pens from which she is selling eggs at half price after May 5th. Send for her free egg circular. Her advertisement appears elsewhere in this department.

—Elsewhere in this department of The Homestead appears the advertisement of the Eggland Farm, Mt. Vernon, Iowa, quoting prices on Single Comb White Leghorn eggs. They write that they have a grand flock of birds and that orders for eggs are coming in in fine shape.

—James Jensen & Sons, Newell, Iowa, are offering White Plymouth Rock eggs for sale in their advertisement appearing elsewhere in this department. They raise from 600 to 800 chickens every year and cull down to about 150, which insures a very uniform flock.

—The advertisement of G. H. Blake, Oelwein, Iowa, offering White Plymouth Rock eggs, from high-scored, full-blooded stock, will be found elsewhere in this department. Mr. Blake will guarantee satisfaction on all eggs that he sends out.

—F. W. Mack, Spencer, Iowa, is advertising in the proper department of this paper, that he is offering for sale Barred Plymouth Rock eggs for hatching. These are from hens weighing from seven to ten pounds, nicely marked and bright in every way.

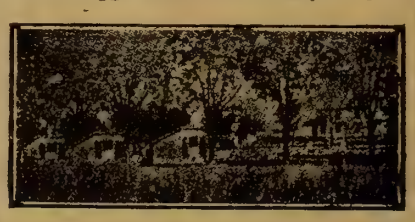
—Readers of The Homestead in need of Partridge Wyandotte eggs should read the advertisement of Good Bros., Montezuma, Iowa, that appears elsewhere in this department. They report that they have some extra fine hens of the above variety from which to supply The Homestead readers with eggs.

—Mrs. W. S. Kern, Plainfield, Iowa, wishes Homestead readers to write for her special rates on Barred Plymouth Rock eggs for the remainder of the season. She will sell them either in single settings or by the hundred. She has a flock of hens that are of the best layers, large, heavy-boned birds, with good markings.

—W. L. Mouser, Red Oak, Iowa, in his advertisement found elsewhere in this department, is offering Single and Rose Comb Rhode Island Red eggs at half price. Write him for prices and get winnings of his Reds in the big shows of western Iowa and at Omaha. He also has many testimonials from satisfied customers.

Orpington Farm.

The engraving which appears herewith shows some of the buildings of the Orpington Farm, Big Rock, Ill., the home of high quality Buff and White Orpingtons. For the remainder of the season eggs of either variety will be



offered at the special low price of $5 per 100. The whites are of the pure Kellerstrass strain and not to be excelled. A few choice hens and cockerels are also offered for sale at bargain prices. See advertisement on another page. Address Orpington Farm, Big Rock, Ill.

Barred Plymouth Rock eggs from prize-winning stock are offered for sale in the advertisement of Mrs. Paulsen, R. D. 5, Harlan, Iowa, on page 11 of this issue.

—Read the advertisement of James W. Grinstead, Jr., Mitchellville, Iowa, appearing elsewhere in this department, offering White Wyandotte eggs for sale.

—Mrs. Henry Queckborner, Chadwick, Ill., writes: "The Single Comb Rhode Island Red eggs I am selling are hatching fine. I have received splendid returns from the advertisement I have in The Homestead. I shipped over 3,000 eggs last season and not a single complaint." See advertisement elsewhere in this department.

—A. E. Muxlow, Independence, Iowa, whose advertisement offering Barred Plymouth Rock and Indian Runner duck eggs for sale appears elsewhere in this department, writes: "My birds are large and well barred, headed by winners at the Buchanan County Fair and also at the Independence Poultry Show. I won ten prizes this year. I have been a breeder of Barred Plymouth Rocks for nine years."

—Mrs. Geo. Roe, Bellevue, Iowa, writes: "My White Wyandottes are very choice, the farm range flock being headed by pure Dustin strain cockerels. My stock is all large, pure white and of fine quality. My special pen consists of eighteen Dustin strain females headed by first and second prize cockerels at Maquoketa. I pack eggs carefully and will guarantee satisfaction." See her advertisement elsewhere in this department.

DUCKS.

FAWN AND WHITE INDIAN RUNNER DUCK EGGS FOR HATCHING

FROM prize-winning stock. We specialize in Indian Runners. New blood is added each season. We keep poorly marked and undesirables carefully culled out and have a flock on farm range equal of many fancy pens. We have a heavy laying white egg strain. Eggs $1.25 per 13; $6 per 100. Will Rasmusson, Rt. 2, Box 63, Nevada, Ia.

Indian Runner Duck Eggs

FAWN and white. pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

Fawn and White Indian Runner Duck Eggs.

FROM the Harshbarger Blue Ribbon strain. $1 per 15. Also White P. Rock eggs from fine strain. Bred to lay. Same price. M. A. Carty, Earlville, Ia.

Indian Runner Duck Eggs

FROM choice range stock, Fawn and White, pure white eggs, 15 for $1, 50 for $3, 100 for $5. **White I. R. Ducks** per setting 15 eggs, $3.50. Also choice utility range S. C. R. I. Red eggs, 15 for $1, 50 for $3, 100 for $5. **CHAS. SPIKE, JESUP, IOWA.**

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons, R. 2, Prophetstown, Ill.**

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6. John M. Hall, Williams, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from fawn and white, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners $2.00 per 12. Address E. A. KAUFFMAN. Lockridge, Iowa.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

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IMP. BLUE ORP. DUCKS Greatest layers, very hardy, easy to raise and a fine table fowl. Eggs at attractive prices. Order at once. You will be pleased. **Emma Holtz, Wilber, Neb.**

DUCKS Indian Runner ducks. Fawn. Great layers. 13 eggs for $1, 100 eggs $5. Sterling Poultry Co., Box 10, Sterling, Illinois.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

INDIAN Runner ducks, scored drakes with fawn heads and backs; eggs $1.00 for 15, $3.00 for 50, $5.00 for 100. Address MRS. C. R. SWITZER, Lewis, Ia.

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M. H. Mammen, Hinton, Ia

INDIAN RUNNER Fawn and White eggs reduced to $1 per 20, $2, per 50. K. Hemmen, Blairsburg, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

PEKIN DUCK EGGS $1 per 11, $6 per 100; drakes $2 each. **Miss Edith Young, Hunterstown, Ind.**

FOR SALE English penciled I. R. duck eggs, $1.50 for 15 or $8 for 100. **Nishna Collie Kennels, Oakland, Iowa.**

DUCKS---Indian Runner. Fawn and White. Eggs $5 for 100; $1 for 13. Mrs. Walter Hoar, Kent, Ia.

Indian Runner Duck Eggs for hatching. Excellent layers. $1 per 15, $2.75 per 50; $5 per 100. Herbert N. Jenny, R. 2, Clarksville, Ia.

EGGS—Pekin ducks, headed by drake scoring 96½ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

ORPINGTONS.

EGGS BABY CHICKS
WHITE ORPINGTONS
White Wing Poultry Farm.
C 294 Perry, Iowa.

Fortmann's Single Comb White Orpingtons
ARE strictly high class and superior type that usually is not found in White Orpingtons. 10 grand matings for this season's egg trade. Now is the time to place your order for eggs. Address Frank Fortmann, Box 23, Dyersville, Iowa.

S. C. BUFF ORPINGTON EGGS
CHOICE pen $2.50 per 15. Choice selected flock $1.50 per 15; $5 per 100. Indian Runner ducks, Fawn and White, eggs $1.00 per 13. Address MRS. H. H. REED, R. F. D. 5, MARENGO, IA.

S. C. BUFF ORPINGTON EGGS (Martz Strain)
TWO grand pens. Prize-winning stock. Winter layers that are hard to beat. I guarantee 12 fertile eggs and will treat you right. Pen No. 1, $2.50; No. 2, $1.50 per 15.
Roy E. Bulechek - - Hills, Iowa.

EGGS from prize-winning S. Comb Buff Orpingtons, two special pens, Martz and Rogers strains, $3.50 per 15; utility flock, free range, 15,$1.25;100.$5.50. Also high-scoring fawn and white I. R. duck eggs, $1.50 per 13; $4.50 per 50. Jas.McKendrick, Ernie, Ia.

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

S. C. WHITE ORPINGTON
KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock;15,$1.50;30,$2.50. Frank G. Myers, Iowa City, Ia.

S. C. B. Orps. Exclusively. Eggs from splendid flocks of pure-bred birds with size, shape and color right. $1.25 per 15, $2 per 30, $5 per 100. O. E. Sutcliffe, Clarksville, Iowa.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners; $1.50, 15; $5 per 100. Utility flock $4 per 100. Book orders early. V. H. Conner, Shell Rock, Iowa

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

White Orpington Eggs $2.00 per 15; $5.00 per 50;$8.00 per 100. Mrs. George Aikman, R. 1, Box 30, Audubon, Iowa.

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens,cocks score 93 and 93½; 15,$1.50;30,$2.50; 100, $6.00. Address A. E. GOODMAN, Indianola,Iowa.

EGGS from pure Cook strain Buff Orpingtons. Four yards, each headed by a blue ribbon winner. Write for mating list. Wm. Cook. Eddyville, Neb.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $6 per 100. Circular free. W. L. Bardsley. Neola. Iowa.

COLEMAN Famous Buff Orpingtons. Prize winners. Stock eggs and baby chicks. Also 40 pullets to spare. C. E. Coleman, Clarinda, Iowa.

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S. C. Buff Orpington eggs $1.00 per 15 and $5.00 per 100. S. C. White Leghorn eggs 75 cts. per 15 and $4.00 per 100. Mrs.,C. C. Richardson, Indianola, Ia.

BUFF Orpington eggs, $2 per sitting. Stock direct from Martz's prize-winning and egg-laying strain. Satisfaction guaranteed. C. Klaus, Manchester, Ia.

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EGGS Rose Comb White Orpington. These are bred to lay the year around. Address P. F. SMITH, Montezuma, Iowa.

S. C. Buff Orp. Eggs. 3 select pens:$3 for 15;$5 for 30. Farm range eggs. $1.50 for 15;$3.50 for 50; $6 for 100. Glynn Poultry Yards, L. B. 69, Cascade, Ia

KELLERSTRASS WHITES From a $100 pen, Also Owen Farm Buffs. Eggs $5 per 100. Orpington Farms, Big Rock, Ill.

ORPINGTONS, S. C. BUFF
$1 for 15; $5 for 100. Mrs. Walter Hoar, Kent, Iowa.

S. C. Buff Orpington Eggs for Sale
Worth the money. Alfalfadell, Farnam, Nebraska.

S. C. BUFF ORPINGTON EGGS, 15, $1.25; 30, $2; 50, $3; 100, $5. Cook strain. A choice lot. Address, mentioning Homestead, Dan McCarty, Winthrop, Ia.

KELLERSTRASS STRAIN S. C. W. Orpingtons. Eggs from "bred to lay" prize-winning stock, 15 $2; order early. D.B.Storck, Box793, Cedar Rapids, Ia.

CRYSTAL WHITE ORPINGTON EGGS for SALE
$1 per setting of 15. J. M Poole, Bristow, Iowa.

S. C. BUFF Orp. eggs, choice birds. Owens' strain, heavy layers, prize winners. Mottled Ancona eggs. Evergreen Poultry Yards, R. 4, Waterloo, Ia.

Single Comb Buff Orpingtons and Black Langshan eggs;good stock;$1.50 for 15 eggs. Book orders now. Address F.C.Roberts, Jolley, Ia.

EGGS from S. C. Buff Orpingtons. 15 $1: 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

Eggs from Cook's strain Buff Orpingtons; Our buffs are prize winners. These are splendid value at $1.50 per setting. H. Cavell, Haverhill, Ia.

FOR SALE—Cook's Single Comb Buff Orpington Eggs and baby chicks. Write for mating list. H. E. Gerry, Traer, Ia.

ORPINGTONS.

Orpington Eggs Buff, black and white eggs for hatching, $2, $3 per 15. Have two pens of each variety. High quality. Incubator eggs, $5.50 per 100. Address E. B. Conable - Independence, Iowa.

Single Comb White Orpington settings after May 1st. Regular stock $1.50 per setting; selected pen, $3 per setting. Fertility guaranteed. Otto Falkenhainer, Algona, Ia.

W. Orpington Eggs Score 90 to 95½. 15 for $1.25. W. I. Runner Ducks. 12, $3. L. Peasley. Fairfield, Iowa.

WHITE Orpington eggs, Kellerstrass strain. Pen 1 scoring 93 and up, $5 per 15; pen 2 scoring 90 and up, $2 per 15. J. P. Schowalter, Wayland, Ia.

PLYMOUTH ROCKS.

EGGS from PRIZE MATINGS
I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellabarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address
HENRY LINKE, - Wayne, Nebraska.

White Plymouth Rock Eggs
PEN No. 1 is headed by 1st cockerel at Grinnell. Pen No. 2 is headed by a cockerel that was sired by a cockerel that was GRAND CHAMPION at Detroit, Mich., in 1912; eggs from these two pens $2 per 15. My utility flock is headed by cockerels scoring 94 and 95; all birds weigh 8 to 11 lbs. each. Utility eggs, $1.00 per 15; $2.00 for 30; $3.00 for $50;$6.00 for 100. Address CHAS. L. BERRY, Iowa City, Iowa.

STRATER BROS., Monroe, Iowa, breeders of
Barred Plymouth Rocks
34 years with size and quality and the best of layers. Prize winners and sired by prize winners. Eggs, $1.25 per 15, $2 per 30, $6 per 100. Special mating, $5 per 15. Prompt shipment.

Barred Plymouth Rock Eggs
FIFTEEN for $1; 30 for $1.75;100 for $5. Stock scoring to 93½. Grand in size, males weigh 10 to 12 lbs.; Blue ribbonwinners. My customers are not disappointed when chicks are grown. Hawkins, Thompson and Bradley strains. Guaranteed good hatch and safe delivery. Catalog free. Address S. V. LATCHAM, WOODWARD, IOWA.

1898 BUFF ROCKS 1913
EGGS from 3 exhibition matings at $3 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings. M. E. KRAFT, - Brooklyn, Iowa.

Barred Plymouth Rock Eggs
And baby chicks from prize-winning stock and excellent layers of both matings. Write for mating list. Mrs. L. C. Reese, Prescott. Iowa.

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FROM first prize winners and pure Bradley stock. Both cockerel and pullet mating, $3 to $5 per 15. $6 per 100. Stock at all times. Write for circular. ALBERT A. FOSTER, Russell, Iowa.

BARRED P. ROCK EGGS Hawkins, Thompson and Bradley strains; from high-scoring, good laying stock, having farm range; heavy bone and clear, narrow barring. Males weigh 10 to 12 lbs.; 15 eggs $1.25; 30, $2.25; 100, $5.50; 200, $10. Mrs. Elsie Noble R.2, New Boston, Ill.

White Rock Eggs for Sale
FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100. Charles Guth - - Berwick, Iowa.

BARRED P. ROCK EGGS
EXTRA select matings, the sort that have produced my state show winners, $1.50, 15; $2.50, 30; $5, 100. As good as the best. Breeding and showing 15 years, Geo. Westwood, Box 20, Waco, Neb.

"PARTICULAR" BARRED PLYMOUTH ROCKS
THE winning and laying kind; eggs $2.50, 15; $4.30. Pen 1 headed by a son of our 1st ck. S. D. State Show. Pen 2, ckl. of same line, eggs from a bunch headed by 6 choice ckls., $1.25, 15; $2, 30; $5, 100. Good hatch guaranteed. J. M. Detwiler, R. 3, Dunlap, Iowa.

BARRED ROCK EGGS
COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring. 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

EGGS FROM QUALITY
BARRED ROCKS, bred for utility and exhibition. Been winners for fifteen years. $1.50 per 15, $5 per 100. Mrs. Chas. Lowry, Box P, Edgar, Neb.

Eggs for Hatching B. P. Rocks, fresh selected, from fine narrow barred birds of large size scoring 90-92½. Winning and laying kind, weighing 10 and 12 lbs. 15, $1.50; 30, $2.25; 100, $5. G. J. Pfeil, Central City, Ia.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912. Shellabarger judge. Eggs 15,$1;30,$1.75;50, $2.50;100,$4. Mrs. Minnie Lenker, Wilton Junction, Ia.

Barred Rock Eggs for hatching. These are cheap quality considered; pen A, $3 per 15; pen B and C, $2 per 15; range flock, $1 per 15 of $5 per 105 CHAS. McCASKEY, OGDEN, IOWA

FULL-BLOOD Buff Rock eggs from $1 to $1.50 for 15 eggs. Strong, healthy birds from scored stock. Address Mrs. P. J. Eggers, Denison, Iowa.

WHITE Plymouth Rock eggs for sale at 75c per 15, $2.25 per 50, $4 per 100. All carefully packed. Mrs. Henry F. Weber, Box 144, Chadwick, Illinois.

PLYMOUTH ROCKS.

WHITE PLYMOUTH ROCKS AND WHITE PEKIN DUCKS CHOICE flock of White Rock pullets mated to 7 cocks scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30;$3 per 45;$7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn. Mated to him are 9 hens weighing 10 lbs.ea. Eggs $3.00 per 15; $5.00 per 30. Extra good flock of ducks headed by drakes which were sired by fowls scoring 97 points. Eggs $1.50 per 11; $2.00 per 22; $4.00 per 50.. Fair hatch guaranteed or eggs replaced at half price. Send for circular. John W. Housolag, Bellevue, Iowa.

EGGS From standard exhibition Barred Plymouth Rocks, Bradley strain. Pens contain many birds closely related to noted Chicago show winners,large size,splendid markings. Price $2 per 15. Also eggs from choice pen of W. Wyandottes $2 per 15 eggs. Mrs. H. J. Hess, R. 6, Waterloo, Ia.

FISHEL WHITE ROCKS direct. Eggs for hatching from high-scoring and prize-winning stock at reasonable prices. Address Mrs. A. Barclay, R. 3, Madrid, Ia.

BUFF ROCK EGGS. Who has the best Buff Rocks in the Mid-West? Send for catalog and learn about the strain that always wins. Rouen Duck Eggs. C. & C. T. Van Lint, Pella, Ia.

WHITE P.ROCK EGGS Carefully selected stock; hatches guaranteed; $1.50 for 15, $2.50 for 30 and $3 for 45. Address Earl Roberts, Ulysses, Neb.

BARRED ROCKS STANDARD kept up 25 years, 4 pens, two cockerel and two pullet matings, narrow, deep barring. Eggs, 45, $3; 30, $2.50; 15, $1.50. J. O. Becker, Charlton, Ia.

Barred Plymouth Rock Eggs large,good shaped, well barred birds, $1.25 per 15, $2.25 per 30, $30 per 15 and $5 per 100. Arthur T. White, Emerson, Iowa.

WHITE ROCKS Great layers. Flock headed by birds from Fishel's Red Eyes. 5 point comb. Eggs, 15 for $1; 100, $5. Pens $2. Baby chicks 15c. Mrs. M. Baird, R. 8, Red Oak, Iowa.

Barred Plymouth Rocks Wales' strain W. Wyandottes. Fishel strain,large, fine marked birds, farm raised eggs $1.00 per 15; $5.00 per 100. H. J. Brown, Belmond, Iowa.

Thirty Years' Experience As a breeder and exhibitor of Plymouth Rocks. Eggs from barred, buff, white. $1 for 15, $2.50 for 50. A. Mathews, Mt. Union, Iowa.

EGGS, BARRED PLYMOUTH ROCKS
BRED for size and eggs from hens weighing from 7-10 lbs. 30, $1.50; 100, $4. F. W. Mack, Spencer, Ia.

BARRED ROCKS Eggs from large boned, bred-to-lay stock. Fine shape and color. $1 per 15. $1.50 per 30. Address H. M. SKIPWORTH, LUANA, IOWA.

BARRED PLYMOUTH ROCKS Hawkins, Bradley strains. Eggs for hatching from choice stock, large and vigorous, 15, $1; $5 per hundred. Mrs. C. H. Case, Elliston, Iowa.

B. Plymouth Rock Eggs
Flock headed by cockerels sired from Bradley and Thompson strain. Mr. and Mrs. S. W. Miller, Truro, Ia.

BUFF ROCKS High-scoring, with trap-nest and show records. Proven winter layers, Eggs: 15,$1, $2,$2.50; 100, $5. Catalog, chicks. M. B. turkey eggs. Write M. Henningsen, Dike, Ia.

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EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

BARRED ROCK EGGS from pen headed with Ringlet, direct from N. Y., 15,$3. Range 50, $3; 100, $5. W. G. Caskey, Corning, Iowa.

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

WHITE Plymouth Rock eggs from high-scoring full bloods, $1.50 per 15, or $6 per 100. Satisfaction guaranteed. G. H. Blake, Oelwein, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar. size; thrifty birds; eggs 30,$1.25;100,$3. J.M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

White P. R. Eggs from very best selected stock, $1 per 15, $2 per 30, $5 per 100. Mrs. Jack N. Gatzemeyer, R. F. D. 1, Bancroft, Neb.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BarredRockEggs 15 for $1.00;45,$2.00; 100, $4.00. Free range. Heavy bone birds. F. E. Healy, Bedford, Ia.

BARRED Plymouth Rocks, pullet mating, Headed ckls. of Latham and Winikee strains. Eggs 15 $1; 100 $5. H. V. Hethershaw, R. 6, Des Moines, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50. $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

EGGS Pure-bred, fine white Plymouth Rocks, Fishel strain, heavy boned. Five cents per egg. Mrs. H. Wood, Moville, Ia.

EGGS for hatching from White Plymouth Rocks at $1 per 15; $3 per 50; $5 per 100. Farm raised, high-scoring. Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

Buff Rock Eggs 15 for $1. 100 for $4.50. White Wydt. and Pekin duck eggs $1.50 per sitting. Alfred Marquardt, De Soto, Iowa.

EGGS Pure-bred Barred Rocks, $1.50 for 15; $5.00 for 100. Mrs. Wm. Mead, Mapleton, Minn.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50,$2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

Barred Rocks Exclusively EGGS $1 per 15; $1.50 per 30 or $4.00 per 100. ASA ANDERSON, New London, Iowa.

BARRED Plymouth Rock eggs from pure-bred, well-barred, heavy-boned stock, 15,$1.25; 50,$2.50; 100, $4. Henry Angerer, R. 1, Wilton Junction, Ia.

BARRED ROCK EGGS. Thompson's Imperial Ringlet stock direct. Also Bradley Bros.' strain. Send for mating list. Mrs. Wm. Stoll, R. 10, Le Mars, Ia.

Thompsons, Ringlets, Bradley Bros, Lathams, Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B. Winthrop, Iowa.

EGGS from Grove Hill strain B. P. Rocks. Extra good layers. From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock. R. 5, Neola. Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100,$4. Write for particulars. Grant Lynn, Spirit Lake, Ia.

White Rock Eggs, $2.75 Per 100
Write B. W. ECKELS, NEVADA, IOWA.

PLYMOUTH ROCKS.

HAWKINS - BRADLEY - THOMPSON
BARRED Plymouth Rocks. Our yard is headed by Bradley cockerels scoring 91½ to 94½. Birds have fine style and excellent plumage, being tanned to the skin. Prize winners wherever shown. We guarantee fair hatch and safe delivery. 15 eggs $1, 30 eggs $2; 50 eggs $3; 100 eggs $5.50.
H. C. Saunders & Son, - Montezuma, Iowa.

EGGS FOR HATCHING
BARRED P. Rocks exclusively for 30 years. Yards headed by cocks and cockerels scoring 92 to 92½ points. Descendents from first-prize winners. Cocks and cockerels weighing 10 to 13½ pounds, hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last showings. 15 eggs $1.50 per 15, $2.50 per 30. Prompt shipments and eggs guaranteed fertile. M. HUMMEL, Monroe, Iowa.

WHITE PLYMOUTH ROCK EGGS
FLOCK consists of 150 pullets selected from 160 and mated with 11-pound pure white cockerels. Eggs $1.00 for 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Order from this ad.
JAS. JENSEN & SONS, NEWELL, IOWA.

OGG'S BARRED ROCKS
BEST ever. Yards headed by first cock, state show, 1912; Bradley cockerel sired by New York champion; cock, pen brother to 1st Chicago cockerel etc. Pen eggs, $3 for 15; $5 for 30; range $2.50 for 30, $6.00 for 100. Address MASON C. OGG, Monroe, Iowa.

B. P. Rock Eggs for Hatching
FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high scoring cockerels with extra heavy bone. Not brassy, price, 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

Barred P. Rock Eggs for Sale
FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92½; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. J. W. Wagner, Monroe, Iowa

White P. Rock Eggs and Baby Chicks from high-scoring, prize-winning stock. Fishel strain. Free range. Eggs 15, $1; 100, $4.00. Chicks, 10 cents each. Address L. A. CRULL, Route 2, Muscatine, Iowa.

BUFF ROCKS
Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address L. L. Woods, Grinnell, Iowa.

Buff Plymouth Rock Eggs
FROM a pure-bred and excellent laying strain 15 eggs, $1.50. Mrs. Lee Ruggles, Birmingham, Ia.

BRADLEY BARRED ROCK
EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia.

WHITE P.ROCK EGGS From very best selected stock, $1 per 15, $2 per 30 and $5 per 100. Send cash with order. Satisfaction guaranteed. H. B. Francisco, Hastings, Neb.

B. P. R. Eggs (Easton, Shellabarger, Bradley Bros. strains). 15 for $1, 100 for $5.00. Toulouse geese eggs 50 cents each. Address James Cockerton, Whiting, Iowa.

B. PLYMOUTH ROCK EGGS, 30 FOR $1.00
100 EGGS, $3.00. M. B. turkey eggs, 13 for $3.00. Toulouse Geese eggs, $3.00 for 10. Address MRS. ROBT. HUNT, EARLVILLE, IOWA

WON with my B.P.Rocks 1st, 2d P., 2d pen, 3rd hen, 3d ckl. Ia. State Fair; 2d P., B. ckl. 3d P. Cedar Rapids; silver cup, 17 ribbons at 3 other shows. Circ. free. Eggs 15,$1. Mrs. H. I. Branson, West Branch, Ia.

BARRED PLYMOUTH ROCK Eggs for hatching, full blood prize winners, great layers. You cannot lose at this price, $1.50 for 15. John Peterson, Box 29, Randall, Iowa.

Eggs For Hatching from large, high-scoring extra good laying strain. Shipped in first-class shape. Prices reasonable. Address Mrs. E. S. Wolcott, Richland, Iowa.

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose, Ia.

BARRED ROCK EGGS Prize-winning stock, $1 per 15, 4c each, $3.75 per 100. Mrs. Paulsen, R. 5, Harlan, Iowa.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.25 per 15; $5 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

PRIZE-WINNING White Plymouth Rocks, fine, large, farm raised. Eggs, $1.00 per 15, $4.00 per 100. Address Mrs. Jas. Pedley, Route 3, Britt, Iowa.

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The day of the skyscraper Silo is here. No Silo too high for the Smalley! Mr. H. E. Williams, Clinton, Wis., says: "The Smalley No. 18 Force Feed cutter with chain drive blower did fine work. We filled one silo 14x36 feet in 8 hours with 8 teams hauling the corn." When C. I. Cook, Menominee, Mich., wanted to fill the 4 biggest Silos in the U. S. he got a Powerful "Smalley." Real business farmers like Messrs. Williams and Cook have no time to fool with the old slat-apron type of machine. They want this force-feed chain-table, grip-hook kind, made by Smalley only. Thus they save a tremendous amount of work and do a quicker, cleaner job. No coarse, uneven silage. All uniformly cut. Which means greater tonnage per silo.

POWERFUL SMALLEY FORCE-FEED SILAGE CUTTER

not only handles green silage, but is also a wonder at cutting dry feed. Handles alfalfa, for instance, to perfection. Letters in catalog prove it. Many farmers use their Powerful "Smalley" to cut corn in the fall and oats and peas in the spring for feeding when pastures dry up in July. Only one drive pulley on Blower outfits. No Idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

You won't know what a real Silo Filler is till you've seen the Powerful "Smalley" or had the Smalley Catalog. Why not send a postal this minute for the latest Smalley Catalog and learn about the Silage Machine that four out of five silo owners now use? Write now and you'll get this fine, useful Book by return mail.

SMALLEY MFG. COMPANY
Box 39 Manitowoc, Wis.

Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters, Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Plows, Cob Grinders and Feed Mills.

55 Years of Honest Manufacture (68)

THE salt that melts in the butter makes the butter that melts in your mouth.

Fancy butter is mostly a matter of cream. But don't forget that it's partly a matter of the *right salt.*

Ordinary bitter salt handicaps your butter; holds back or alters its flavor.

Worcester Salt—without a trace of bitterness—brings out the full flavor. Its even texture and uniform grains make it the easiest salt to work into your butter.

WORCESTER SALT

The Salt with the Savor

Send us your dealer's name and address and we will mail you, free of charge, our booklet, "Butter Making on the Farm."

For farm and dairy use, Worcester Salt is put up in 14-pound cotton bags and 28 and 56-pound Irish linen bags. Good grocers everywhere sell Worcester Salt. Get a bag.

WORCESTER SALT COMPANY
Largest Producers of High-Grade Salt in the World
NEW YORK

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

CONDENSERIES OR CREAMERIES, WHICH?

We have been asked to make a comparison between the condensing factory and the creamery, viewing the matter from the standpoint of the milk producer. The inquiry in this case is accompanied by a statement of prices that have been paid by the company proposing to establish the condensery, during the last ten years. A comparison of these prices with Elgin values indicates a variation of from thirty-five cents to eighty cents per 100 pounds of milk in favor of the condensery. Of course, the condensery system takes the skim milk as well as the butter fat while in the case of the creamery the skim milk is retained for farm use. We would like to ask those of our subscribers who have had experience with condenseries or with creameries or with both to give their opinion on the relative merits of the two systems, assuming in each case that the company operating either the condensery or the creamery is absolutely reliable. We are willing to compensate those who will take the pains to discuss either side of this question somewhat in detail.

HANDLING SKIM MILK CALVES.

To the Editor of The Homestead:

Many farmers still are raising calves by allowing them to suck the cow, and while it must be admitted that no other method will prove quite so satisfactory in calf-development, the cheapness of skim milk as a ration for them readily commends itself to the thoughtful, intelligent farmer, since, with proper management, the skim milk calf will develop nicely and develop into a profitable animal.

We like to get the calf away from the cow and teach it to drink skim milk just as soon as possible after it is dropped. From three to five days is as long as it should be allowed to remain with her. This length of time must, of course, be controlled largely or even wholly, by circumstances. Where everything is normal, however, the above period of leaving the calf with the cow will be found about right for all concerned.

Don't make the mistake of separating the calf from the cow too soon after birth. The little fellow must get the benefit of the first milk (colostrum) for about the above period, as that is what starts its bowels and leaves them healthy and free.

Yet, there are other points to be observed in separating the calf from the cow. Some cows will not "give down" their milk if the calf is taken from them abruptly or within a short time after birth, and these members should be separated from the calf by slower degrees, in order to maintain a normal milk flow.

Another case that may require leaving the cow and calf together for a longer period of time on the start, is that of caked or highly inflamed udder. Nothing reduces the swelling and inflammation in such cases like the sucking of the calf, and it may be found necessary to leave it with the cow a while longer on this account.

After once taking the calf from the cow, let the separation be permanent and unbroken, as a second teaching to drink skim milk will prove much harder and more aggravating than the first, and tends to train the cow in holding up her milk. Besides, when the hand-fed calf gets with the cow again, the over-gorge of milk secured is sure to result in a bad case of the "scours."

Don't turn the calf back with the cow simply because it seems hard to teach to drink. That would spoil it. Just be patient with the little fellow, and remember that it is contrary to its nature for it to take nourishment by drinking from a vessel at this stage if its existence. Its natural way of securing sustenance is with its nose elevated, and pulling away at a teat; so gradually break him away from this method by allowing him to suck your finger, slowly working his head down till it reaches the milk in the pail. In this way, it soon secures a taste of the milk while sucking your finger. When it becomes accustomed to this,

A straight from the shoulder message to separator buyers

Beware of separator salesmen who claim that their machine is "just like the De Laval" or "as good as the De Laval."

Such claims are all absolutely false.

Such imitators juggle with words.

Instead of putting into their machine the experience and the workmanship and the material necessary to make a cream separator anything like as good as the De Laval, they find it cheaper and easier to "claim everything" and make a bugbear of "price" to keep the buyer from discovering the mechanical shortcomings of their machines.

They go on Barnum's theory that the people like to be fooled and don't care how they get your money just so long as they get it.

It is unfortunate that the separator business should be burdened with such unfair business methods but since it is it behooves every prospective separator buyer to use care and good judgment in the selection he makes.

Look well to the demonstrated ability of the concern that makes the machine to build a good separator. Avoid buying a machine whose makers have had little separator experience, or who are constantly changing from one makeshift type to another.

Talk with separator users who have learned by experience.

The more you investigate the more you will find that there is one and only one separator that stands in a class by itself.

It was the pioneer cream separator in 1878 and it has been first ever since.

You will find that more machines of this make are being sold than all other makes combined.

You will find that 98 per cent of the world's creameries use it exclusively.

You will find that every user of this machine is a booster.

You will find that its makers are so confident of its superiority that you may have a free trial of it alongside any other machine and judge for ourself as to which machine will serve you best.

This machine has over 1,500,000 satisfied users.

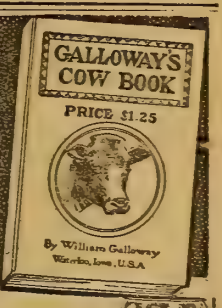
It will serve you best, save you most and last the longest.

If you want to be sure of making a good bargain buy a

De Laval Cream Separator

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

I Want To Send You This Valuable Cow Book Free!

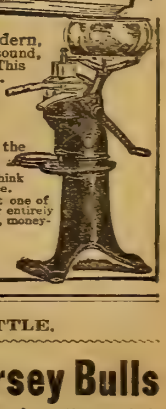


Positively the only book of its kind ever written. A complete Manual of Dairying for the modern business farmer giving ALL of the best, modern, scientific dairying methods in clear, plain English. No theories—just the sound, practical money-making facts that every cow owner should know. This book is priced regularly at $1.25. FREE to you if you only write at once.

Get My 90-Day FREE TRIAL OFFER On the Great Galloway Sanitary Separator

I want to tell you how you can get the very latest and greatest product of the great Galloway factories—the wonderful Galloway Sanitary Separator—shipped right to your farm for 90 days' absolutely free trial. Unquestionably the most liberal separator offer ever made. I'll even pay transportation charges both ways if you think you can get along without this wonderful machine after the FREE trial. Send at once.

Special 1913 Offer: I want to tell you, too, how you may actually get one of these wonderful, new separators either partly or entirely without cost. *No soliciting or canvassing.* Just write me a postal or letter—get my big, money-making Cow Book and catalogs—all FREE.



Wm. Galloway, President
WM. GALLOWAY CO., 103 Galloway Sta., Waterloo, Iowa

JERSEY CATTLE.

WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

JERSEY CATTLE.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

BEATRICE

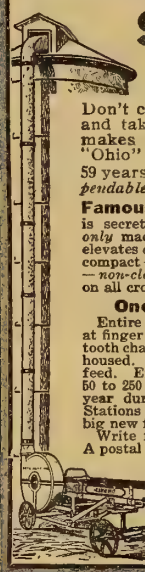
For years farmers have been kicking against exorbitant prices for standard separators. Here's the answer: Get a Beatrice. The one standard separator at a reasonable price. $25 to $40 cheaper than other standard makes.

Patented device will make the machine spotless and thoroughly sanitary *in less than 2 minutes*, A close, clean skimmer. Saves money—saves cream—saves labor.

If you do not know a Beatrice dealer near you, write us. We'll send you booklets, and satisfy your needs.

THE BEATRICE CREAMERY CO.
Chicago Lincoln, Neb. Des Moines, Ia Pittsburg, Pa.

"Ohio" 1913 Model
The Improved Logical
Silo Filler



"Ohio" improvements for 1913 are radical—eclipse all previous efforts.

Don't close a deal for *any* Cutter and take chances with unknown makes until you see what the "Ohio" offers.

59 years' experience—*absolutely dependable quality.*

Famous Patented Direct Drive is secret of "Ohio" superiority—the *only* machine that is driven, cuts and elevates *direct* from main shaft. Simple, compact—low-speed fan—*non-explosive*—*non-clogging* on any cut. Cuts *clean* on all crops—knives can't spring.

One Lever Controls All

Entire feed reverses by *wood friction* at finger pressure—no strain—not a gear tooth changes mesh. All gears perfectly housed. Famous "Bull-Dog" grip self-feed. Enormous *half-inch cut* tonnage, 50 to 250 tons a day—6 to 15 h. p. 20-year durability. Used by Experiment Stations everywhere. Guaranteed. Many big new features this year.

Write for free "Ohio" catalog today. A postal will do.

"Modern Silage Methods" a 264-page book mailed for 10c, coin or stamps.

THE SILVER MFG. CO.
309 Broadway
Salem, Ohio

Calves Without Milk

Cost only half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

Blatchford's Calf Meal Factory
Waukegan, Ill.

GUERNSEY CATTLE.

WE NOW OFFER 30 HEAD
of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address
WILCOX & STUBBS CO., DES MOINES, IOWA

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the finger may be removed a little at a time, till the calf will drink without anything being in its mouth.

As to the amount of milk one should feed the calf, this must be gauged according to the size and vigor of the calf, frequency of feeding, richness of the milk, etc.

The safest plan is to note carefully about how much milk the calf sucked while running with the cow at will; then give just a little less than this quantity as a regular ration in hand-feeding.

We aim to feed the calf three times daily, when first taking it from the mother cow, and consider that a half-gallon of milk at a feed is quite sufficient for the average calf at the beginning, as over-feeding is to be carefully guarded against at this stage.

For the first two or three days, according to the general condition of the calf, we give it nothing but the pure, unseparated milk, just as it comes from the cow's udder. It is advisable to give each calf the milk from its own, individual mother at first, to avoid the possibility of bringing on bowel trouble, which might result if it drank the milk from another cow.

After two or three days, begin to add a little skim milk to the pure product, and at the end of a week or ten days, give the skim milk alone. A few days' more feeding, and a gallon of milk twice a day will do quite as well as feeding a smaller quantity three times a day. The quantity of milk given each day should be as nearly the same as possible, each calf drinking from an individual vessel. If all are fed together, some will get too much, while others will not secure enough to keep them in normal condition.

We keep some clean, small grain and bright roughage where the skim-milk calves can reach it at all times, and find that they are very quick to acquire the habit of picking up a little of each. Our calves begin to nibble at a little hay and eat a small quantity of grain by the time they are ten days or two weeks old when it is only a very short time till they are eating liberally of them. It is imperative that they do this, as clover, alfalfa, oats, bran, shorts and oil-meal will greatly assist in supplying the elements that were extracted from the whole milk by the cream separator.

The calves relish corn chop, but this feed is too strong for their digestive apparatus while they are young and tender, and should not be given till they are from four to six weeks old, when a handful may be added to the bran, oats and oil meal, that amount being gradually increased as the calves develop, till it is made about one-third of the entire ration. Oats, however, are the ideal feed for calves, and should constitute one-half their grain ration, a small proportion of it being bran or shorts, and a handful of oil meal being added occasionally, to act as a laxative and to keep the bowels in prime condition.

It is imperative that the skim-milk calves have clean quarters, plenty of open air exercise in the life-giving sunlight, and a grassy plot to run in. Have a lot expressly for them, where they may be turned during the day, and a good shelter for them, should the weather demand it. Cold, damp, dark or filthy quarters are sure to give the calves the "scours" or other kindred ailments, which quickly start the little fellows on the downward road. And if there is anything in stockdom worse than a half dozen run-down skim-milk calves, it is a dozen of them. They become "pot-bellied," long-haired and thin, coming out the following spring after being wintered, looking like the proverbial "thirty cents."

In this connection, it is imperative that the calves' vessels from which they drink be kept clean and sanitary. Use them for nothing else, and rinse them out well immediately after each feeding, scalding them thoroughly two or three times a week. A little neglect in this matter is productive of the most direful results. The pails so soon sour if not properly attended to, and disease germs breed and thrive in them during hot weather. It is probable that nine out of every ten cases of the "scours" are directly traceable to this source of filth. Also, have the milk as near blood or animal heat as possible when fed to the calves, and never, under any circumstances, give them sour or tainted milk. There is less loss and danger in letting them miss a feed entirely than there is in giving them sour milk.

With a nice, pleasant lot (as above mentioned) containing a good growth of grass, the calves soon begin to nibble at it, when the skim-milk ration can be gradually lessened until, at the end of three or four months, according to the thrift of the calves, it can be dispensed with entirely, the grain, roughage and grass being really better adapted to their wants than the milk with the rich cream removed, and more conducive to a healthy, vigorous development than it is. If the calves are intended for the dairy, there should be little deviation from the above feeding through the summer months, but if a part of them are fit only for veal, these should have the corn-chop portion of their rations increased accordingly, on account of its fattening qualities. Bear well in mind that you are laying the foundation for a grown animal; then feed and care for it in a manner that will furnish the proper material for that foundation.—M. C.

Of the loss of livestock last year, that among swine was the heaviest and hog cholera was probably the cause of 90 per cent of the loss, according to the department of agriculture. The monetary loss in swine the department places at approximately $66,417,000. The loss of cattle and sheep in the year was not so heavy as the year previous, while the losses of farm horses and mules were not quite 1 per cent greater than the preceding year. "Losses of swine from disease were unusually heavy," says the department, "being 110 per thousand, as compared with 89.2 the preceding year and 54.9, the average per thousand of the last ten years. The total loss was approximately 6,736,000 head."

More than one hundred million barrels of flour are ground annually in the mills of the United States.

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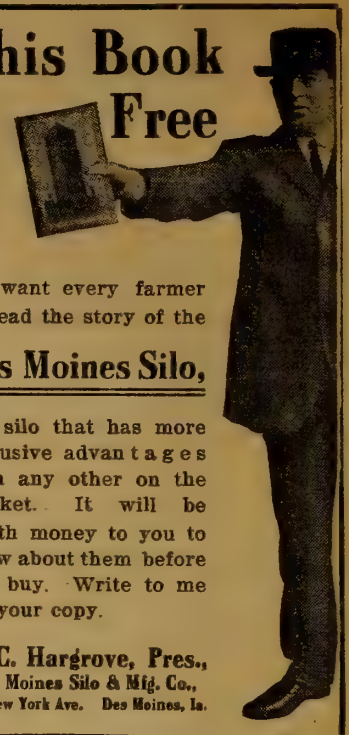

I want every farmer to read the story of the

Des Moines Silo,

the silo that has more exclusive advantages than any other on the market. It will be worth money to you to know about them before you buy. Write to me for your copy.

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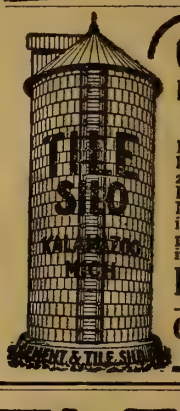

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Home Town; a Silo hooped like a water tank. Kalamazoo Galvanized Door Frame, Clear Cedar Doors. Never require paint nor insurance; is fire and frost proof. Will be sold so that it earns its cost before the

Buyer Lets Go of His Money

Cement & Tile Silo Co.
KALAMAZOO, MICHIGAN

SIZES 3 TO 14 FT.

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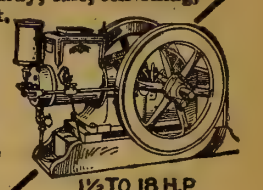
APPLETON

Appleton-Goodhue Windmills will pump your water economically, work whenever the wind blows and keep at it for years. For a nominal sum we will *Insure for 5 years* against cyclones, tornadoes, anything but neglect. Why experiment; buy a simple, sturdy, safe, self-oiling, self-governing Appleton Goodhue outfit.

FARM POWERS

When the wind don't blow you will need an Appleton Gasoline Engine and pump jack. You can belt on to the pump, when needed, or run your churn, hand sheller, etc. For heavy work, running the husker or silo filler you have your pick up to 18 H. P. Hopper cooled, speed changing device, single side rod; a perfect engine. Write us today.



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HOLSTEIN CATTLE.

Pure-bred Registered
HOLSTEIN CATTLE

The Holstein breed now boasts of eleven 1,000-lb. cows—that is cows with a semi-official yearly records in excess of 857 lbs. of butter fat (equivalent to 1,000 lbs. of commercial butter).

Yet it is not so much on these great records as on the average ability of their cows that Holstein breeders base their claims for superiority.

27.3 quarts of milk per day and 16.65 lbs. of best commercial butter per week was the average yield of 5,074 pure-bred Holsteins (one-half being heifers) tested by experiment stations between May, 1911, and May, 1912.

Send for Free, Illustrated, Descriptive Booklets.

HOLSTEIN-FRIESIAN ASSN., F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

HOLSTEIN COWS, HEIFERS, BULLS

250 head in herd. Also some very choice young bull calves. Write us, let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from eight to 12,000 lbs. milk per year. All stock registered; no grades.

Woodlawn Farm - Sterling, Illinois.

Russell's Holsteins

Quality. Individuality.

OVER 200 head of splendid individuals always on hand, all from advanced registry and heavy milking dams. The kind that never fail to fill the pail. The blue-blooded, better-bred sort that will make you money. We want your trade. You need our Holsteins. Write us today.

T. H. RUSSELL, - Geneva, Ohio

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested

Geo. Burmeister, Prop., Waukesha, Wis.

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HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

W. C. KENYON, - Elgin, Illinois

Registered Holstein Bulls

CHEAP to close out; five ready for service and seven 8 to 12 months old, sired by King of the butter king, King Segis Hengerveld, and the $10,000 milk and butter king. Prices $85 to $125. Address

Henry Glissman, Station B, Omaha, Neb.

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

MARRIAGE CEREMONY BY MINISTER.

Mr. G. H. P., Charleston, Iowa.—Can a minister of the gospel, who is a native of another country and has not been naturalized in this country legally perform the marriage ceremony in the United States?

Answer.—Any minister of the gospel, who has been ordained or licensed according to the usages of his denomination, is authorized by the law of Iowa to perform a marriage ceremony. It is not necessary that he be a native-born or naturalized citizen.

INHERITANCE TAX.

A Subscriber, Martinsburg, Iowa.—Concerning the inheritance tax of Iowa. (1) What portion of it goes to the state? (2) How much property is exempt from inheritance tax? (3) If certificates and notes are not in the name of a person when he dies, are they exempt from inheritance tax? (4) How can a person invest in government bonds?

Answer.—(1) All collateral inheritance taxes in Iowa are paid to the state treasurer for the use of the state. (2) When entire estate does not exceed $1,000, after deducting debts, it is exempt from inheritance tax. Also, when property passes to husband or wife, father or mother or lineal descendant, or adopted child or lineal descendants thereof, or to educational or religious societies, public libraries or public art galleries, or public hospitals, etc., it is exempt from the inheritance tax. (3) If the certificates and notes actually belong to a person, though made out in another's name, they are not exempt.

STORM WINDOW FIXTURES.

A Subscriber, Stanton, Iowa.—Last summer A bought a farm in Iowa from B and A was to take possession thereof on the first of March, 1913. Nothing was said at the time of sale about storm windows which B had used on a porch and bed room of the house. After A took possession of the property B came and demanded the right to take the storm windows away, claiming that they belonged to him. Is he correct?

Answer.—B's claim is not lawful The storm windows are fixtures to the house and go with it in the sale, nothing being said about them in the deal. B has no right to take them away.

RULE OF DESCENT IN INDIANA.

A Subscriber, Unionville, Mo.—I have an uncle living in Indiana who never married. He owns considerable property. He had a sister who died and left one child and two brothers who died and left one child each and another brother who died and left seven children. My uncle has no brother or sister living and his parents are dead. His property is to be equally divided among his heirs. What will be the lawful share of each child of his brothers and sister?

Answer.—The lawful heirs of your uncle are the children of his deceased sister and brothers. All of these children are equally of kin to your uncle, and therefore will share equally in his estate, under the laws of Indiana, provided he makes no will to the contrary.

WIDOW'S PORTION OF ESTATE.

A Subscriber, Lewis, Iowa.—My father died without making a will, leaving a wife and six children by a former wife. He had no children by the second wife. He owned at the time of his death 160 acres of land in Iowa and five lots in an Iowa town. My mother, his first wife, helped to earn all this property and my father had it when he married the second time. His widow wants to sell all of said property. Can she lawfully do so? What share of it legally belongs to her?

Answer.—The widow can sell only her own interest in the property which is one-third of it. An administrator should be appointed to settle the estate, and what is called the widow's allowance should first be set apart for the widow. After this is done and debts collected and paid, the estate is ready to be settled, and the widow is then entitled to one-third of the estate, which is hers absolutely, and she can do as she chooses with it. The other two-thirds of the estate belongs to the six children, share and share alike.

FIVE-YEAR LEASE—RENTER'S RIGHTS.

A Subscriber, Hartington, Neb.—I rented a farm from B for five years and there is more pasture land on it than I need. (1) Can I lawfully break up part of the pasture land and cultivate it in crops? (2) If I should do so could the owner of the land recover damages from me by law? Nothing was said in our contract about the pasture land.

Answer.—You have a right to cultivate part of the pasture land, and the owner could not recover damages from you for so doing.

SUBSCRIPTION TO PAPER—HOW ENDED.

A Subscriber, Donnellson, Iowa.—I ordered a paper from Pennsylvania about twenty-one years ago to be sent to me for one year. When the year expired the publisher kept on sending the paper to me and it has continued to come till the present time. Can the publisher compel me to pay for the paper?

Answer.—If you continued to take the paper from the postoffice, or from your R. F. D. box, without objection, the publisher can compel you to pay for it. When a paper or other publication continues to come to a subscriber after his time of subscription has expired and he wishes to stop it he should refuse to take it from the postoffice or take it there if it comes to his rural mail box and leave it, telling the postmaster that he refuses to receive the paper and to notify the

(Continued on page 20.)

"INGECO" Engines

Reliable at all times

The "Ingeco" Engine responds to every demand in any kind of weather—on any kind of job, anywhere. Very simple construction, but strong and made to last. Economical in fuel consumption. Easy to start—runs as long as there is fuel in the tank.

All sizes from 1½ to 60 H. P.
Stationary—Portable—Semi-Portable.

Write for name of nearest dealer, and catalog giving reasons why this is the engine for you to consider.

International Gas Engine Co.
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Get my Big FREE BOOK of BUGGY BARGAINS

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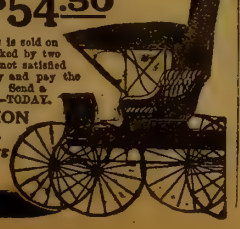

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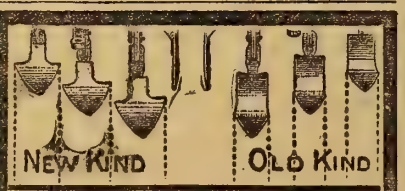

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HORTICULTURE

LARGE OR SMALL POTATOES FOR SEED.

An experiment conducted in 1912 at the South Dakota station throws some light on the relative value of large and small potatoes when these are used for seed purposes. In this experiment all small and very irregular tubers were selected out of the total bulk of seed potatoes used in planting the patch. This left the larger, better formed tubers to be used in the lot called "large." All tubers in the original amount of seed were used for planting either for "large" or "small" seed so that there were no intermediate discarded tubers. The average weight of the large tubers was 5.7 ounces while the small potatoes weighed 3.1 ounces. In nearly all cases the potatoes were cut into four pieces, the exception being in the case of very small tubers which were cut only into halves. After cutting, the large seed pieces averaged 1.4 ounces in weight while the small seed pieces weighed .8 ounces. This seed was planted in alternate rows eighteen rows being used in all, the yield in each case being indicated in the following table:

Row	Yield lbs.	Bu. per a.
1 small seed	127	132.3
2 large seed	160	166.7
3 small seed	131	136.5
4 large seed	173	180.2
5 small seed	131	136.5
6 large seed	171	178.1
7 small seed	129	134.4
8 large seed	181	188.6
9 small seed	138	143.7
10 large seed	187	194.8
11 small seed	138	143.7
12 large seed	168	175.0
13 small seed	150	156.3
14 large seed	175	182.3
15 small seed—Not weighed.		
16 large seed	158	164.6
17 small seed	139	144.8
18 large seed	187	194.7

From the above figures it will be seen that in the case of all rows the weight of those planted with large seed without exception outyielded the rows next to them which were planted with small seed. The average yield of the rows planted with large seed was 180 bushels per acre while the small seed yielded an average of 141 bushels per acre. Here was an increase of 2 per cent in yield in favor of the large seed.

Observations taken from the crop indicated that the rows planted from large potatoes produced a more uniform crop and the growth was more rapid from the beginning. As potatoes are cheap this spring it would seem from this experiment that it will be a safe venture to use only select potatoes for seed.

IMPORTANT TO APPLE RAISERS.

A recent issue of that excellent little college publication, The Kansas Industrialist, contains some valuable information on the treatment of apple trees for the prevention of apple blotch. The article comes from the pen of Prof. D. E. Lewis, of the Kansas Agricultural College. The professor says that the disease mentioned causes immense loss to the orchardists annually, and that it is the most destructive disease known to Kansas. The article is as follows:

It is impossible to control blotch after it has gained entrance to the fruit. No blotch can be seen at the time of the first spraying, but if the spores are present on the twigs in cankers it means you will have blotch on the fruit unless it is sprayed. Blotch is not visible to the naked eye, for two or three weeks after it has entered the fruit.

The solution used in spraying for this fungous disease is Bordeaux mixture. This is made from three pounds of copper sulphate, four pounds of lime, and fifty gallons of water. It is important that all the copper sulphate be mixed with one-half of the water and all the lime with the other one-half, and these two dilute solutions allowed to run together at the same time into the tank. Bordeaux solution made in any other way is less effective and may be even injurious to the fruit.

The first application should be three weeks after the petals fall; the second, two weeks after the first; the third, in bad cases, will be required about four to six weeks after the petals fall, and the fourth, eight to ten weeks after the petals fall, or at the time of spraying for the second brood of the codling moth. In mild cases, the second application may be applied from three to four weeks after the first, and the third may be omitted. Bordeaux mixture must not be used during wet weather. If the weather is damp at the regular time of spraying, apply lime and sulphur and spray with Bordeaux as soon as the weather is settled.

The disease is caused by a fungous growth. It grows parasitically on the leaves, twigs, and fruit. On leaves it causes very small, almost white, or greenish-yellow, irregular spots. They have a dark speck or raised part in the center. The work on the leaves is not very important. It seldom causes defoliation, and no spores are given off. On the twigs the growth is small, elongated cankers, varying from one-fourth to one and one-half inches in length. Cankers have a light gray or tan center surrounded by dark green or olive margins. Spores are borne on the portions just inside the dark green elevations, in the spring, and are carried over the winter in the cankers.

The damage to the fruit varies with the variety, causing total loss on some kinds and almost no damage on other varieties in the same orchard. It causes a black, sunken, firm spot, with fringed or regular edge, or may cause a dark brown or almost black irregular spot. When two spots coalesce they frequently are crossed with cracks, caused by the growth of cells under the dead spots. Soft rots often get into these cracks and vary the appearance of the disease. Fruit often is made unsalable by apple blotch. It is a leatherly, drying disease and in the worst cases the apples are worthless, even for cider and vinegar.

Cutting the tree back often is helpful. This should be followed by spraying. Cankers may then be prevented from forming on new wood. They are always found on twigs and never on old limbs. A few varieties that are susceptible are Missouri Pippin, Ben Davis, White Winter, Pearmain, Huntsman's Favorite, Northwest Greening, Maiden Blush, Gano, Snow, and Arkansas Black. Those that are almost immune are Grimes Golden, York Imperial, Winesap, and, to a less extent, Jonathan.

SOME SPRAYING POINTS.

A Kansas subscriber writes as follows:

I intend to spray my orchard this spring, but have had no experience. How many pounds of arsenate of lead and slacked lime should I use to 100 gallons of water for spraying apple and peach trees?

We are glad to answer this letter and will aim to make clear a few important points. A great deal of matter has been published during the past few years about spraying, and yet the whole business is so complicated that it is imperfectly understood, even by those who need to master its details.

There are different sprays for different purposes. The Bordeaux mixture (copper sulphate five pounds, fresh lime five pounds to fifty gallons of water) is a fungicide, and will have no effect upon insects. For convenience it is customary to add to this a poison for insects, say ten ounces of sugar of lead or five ounces of arsenate. This is the spray in common use for apples, plums and pears.

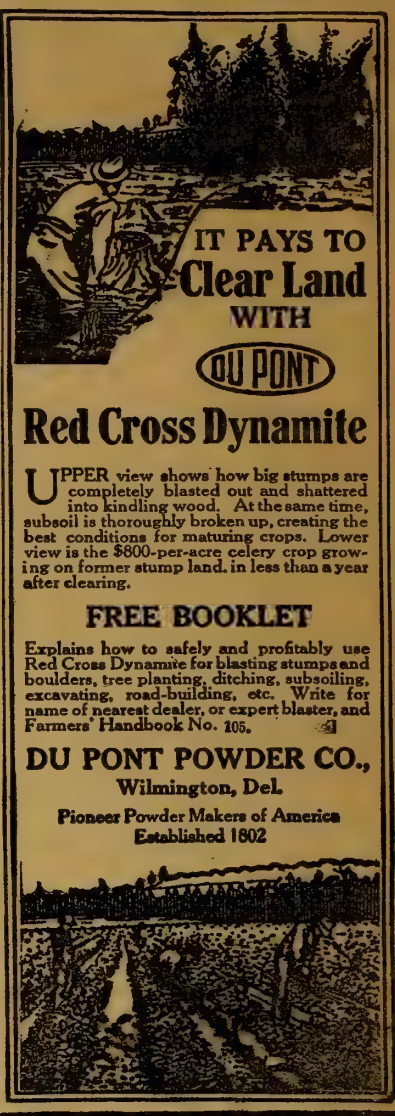
But you will need a weaker mixture for peaches using the same amount of water, but only half as much copper sulphate and lime. Do this because the peach foliage is injured by the full-strength Bordeaux.

Another spray very much used now is the lime-sulphur wash. This may be bought all mixed for use except that it has to be diluted. This is used both as a fungicide and as a remedy for the scale. But the lime-sulphur spray is used exclusively as a winter application. Perhaps we should not say exclusively, but at least very generally. In preparing these sprays great care must be used in getting just the right quantity of materials, and if a man has had actually no experience he had better get an experienced man, if possible, to help on his first attempt.

There is also much certainty in the public mind as to the proper time to spray. And yet, a general rule for spraying may be given in one sentence which ought to be committed to memory by every fruit grower. Use the lime-sulphur in late fall and winter for scale and fungicides and poisons from April first to July.

An article like this can only give in the briefest outline instructions for spraying. There are many subordinate points which ought to be understood for the best results. Each kind of fruit has its special requirements.

To illustrate: apples and pears should have the dose just as the buds



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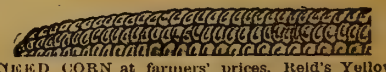

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open in the spring and just after the petals fall. Also plums and cherries when the buds are in the same state, and peaches (bearing in mind the weaker strength) just before the flower buds open. Grapes should have an application of the Bordeaux when the new growth is out about six inches, and again after blooming. This will control the mildew and black rot.

But currants and gooseberries need the poison only after the worms are to be seen, when they are ready to eat. Then you must feed them. The same with spraying strawberries with poisons for the leaf roller, but the Bordeaux for rust may be applied as soon as leaves appear. There is another thing which should be said to every one who is taking up spraying for the first time: Get informed as well as possible upon the details of the business. Every state has its experiment station in connection with its agricultural college. At this station they publish bulletins giving all requisite information upon spraying.

This Kansas subscriber should write at once to Manhattan and ask for the spraying bulletins. They will be sent free. Get your name upon their mailing list and they will be glad to send you, from time to time, their helpful publications.

GARDEN BEANS.

The beans most commonly grown in the home garden are of the low bush type, which can be planted quite closely together as they have no tendency to make vines or runners.

The best-known type of the bush beans are the green-podded and wax-podded or butter varieties which are used for snap-shorts, that is, the pods are used while young and tender. During recent years great improvements have been made in this type as varieties have been developed which produce pods that are absolutely free from strings and tough fiber. For the convenience of those who are not well acquainted with the newer varieties a list of the best varieties is given below: Burpee's Stringless Green Pod is unequaled as a green podded variety; it produces long stringless green pods which are much better in quality than Six Weeks or Early Mohawk and the pods are ready for use fully as early as any other variety.

Probably the earliest wax or butter variety is Brittle Wax; other excellent sorts are Fairfield Wonder Wax, New Kidney Wax, Rust-proof Wax and Pencil Pod Black Wax.

There is an old saying that land that is too poor to grow any other crop may be planted to beans; however, this is not the case, as in order to raise a good crop of beans the ground can hardly be made too rich. Beans are very tender and for this reason planting should be delayed until the ground is quite warm and danger from frost is past.

Plant the rows eighteen inches apart either planting about three seeds in a hill one foot apart or-naving in drills one plant every six inches. Start to hoe or cultivate as soon as the plants are up and give frequent but shallow cultivations until the blossoms appear; after that the plants should not be disturbed as the blossoms are easily knocked off and as a result the crop will be greatly decreased.

Never work among your beans while the vines are wet from rain or dew as it will cause them to rust.

An important feature in growing beans is to make continued plantings so as to have a constant supply of fresh tender pods throughout the season.

Keep the pods picked as fast as they are ready for use as the bearing season will then be greatly prolonged.

A Farmers', Rural School-teacher and Homemakers' Conference was held recently at the Stevens Point, Wisconsin, State Normal School. Closer co-operation between the school and its patrons and increased service to the community was the theme. Pres. John F. Sims of the normal school feels that this conference is a new departure not only in the normal school work, but in educational movements in general. The program of the conference was prepared with the thought that the people of the rural communities might inform the normal school of their conditions and needs in order that the school might be of greater service to them in as many helpful ways as possible. Many of the farmers who attended told briefly of their appreciation of the practical value of the conference and expressed the hope that it would be made a permanent activity of the school. Steps toward the formation of an agricultural club were taken to include all who are interested in the betterment of rural conditions.

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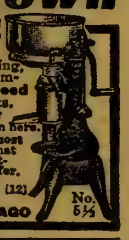

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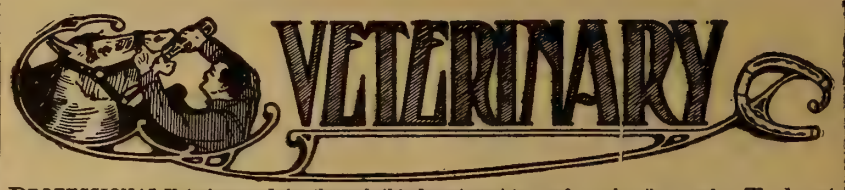

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

SCOURS.

My calves are troubled with red scours. It attacks them from a week old up to two months of age. My buildings are kept clean and I am careful how I feed them. I always let my calves run with the cow until they are two weeks old, then I feed them on whole milk right from the cow for another week, the next week I give them one-half skim milk and one-half whole milk, so by the time they are one month old they are on all skim milk and eating good, bright clean oat hay. I have given them all the remedies I know of trying one part solid and two parts subnitrate of bismuth, also raw eggs with laudanum and several others. I shall be thankful for any advice.

The remedies referred to will do no good unless you first give a full dose of castor oil shaken up in milk. Mix together half an ounce of formaldehyde and fifteen and one-half ounces distilled water. Of this mix one teaspoonful in each pint of milk fed to the calves. Lessen the rich feed of cows. To prevent calf cholera of newborn calves hypodermic injections of polyvalent bacteria against dysentery should be given at birth. It may be ordered through the druggist.

DISEASED TAIL.

Have a five-year-old mare that is fat and looking well, but is losing the hair on her tail. She had a white scab or thick dandruff on her tail when first noticed and I have kept this washed clean. The hair breaks off about an inch from the tail and the scabs and roots are hard and stiff, almost like wire.

Scrub the parts clean and when dry rub in a mixture of equal parts of kerosene and machine oil. Wind locks of the upstanding hair around the fingers and pull until the skin gives with a cracking sound. Do this with all the affected hair. It often stops tail rubbing. Repeat the application of oil and kerosene as often as found necessary. See that the mare is worked every day and that she is not too heavily fed. Do not feed corn in spring and summer.

BARRENNESS.

Please give me some remedy for barren sows. The sows are in good shape, but not too fat and have plenty of exercise.

There is no specific remedy for barrenness. The causes are many and different and no one remedy will cure all conditions. As a rule it is best to let barren sows go to the butcher.

VICIOUS MARE.

A mare four years old had a colt April 11th, but she does not want to own it. She kicks and bites it and will not let it nurse. What can I do with her?

Try penning the mare against the wall of the box stall, by means of a gate or hurdle through the bars of which the foal may be liable to suck. She may have to be hobbled to prevent kicking. In such cases, however, it usually is best to wean and hand-raise the foal. Do not have this mare bred again.

LAMENESS.

(1) My sorrel mare coming three years old and weighing 1000 pounds cut her foot last September. Although we have used almost everything on it, including liniment and poultices, her foot is swollen above the hoof and she is lame. We have fed her hay, fodder, corn and oats. (2) Is there any cure for cock ankle in horses? We have a bay mare that has been in this condition for about ten months.

Clip off the hair and blister the hoof head with cerate of cantharides. Rub it in for fifteen minutes, then tie mare up short in stall so that she will not be able to lie down. Wash blister off in forty-eight hours and then apply a little lard daily. (2) A veterinarian could cut the tendons and in that way cure cocked ankle. There is no other cure.

SOWS EATING PIGS.

Some of my sows start to eat their pigs after they are about a week or two old. These sows have been fed ground oats and corn, also milk and swill shorts together with oil meal. They have a nice, clean place and are in good shape. What can I do for them?

The sows appear to have been overfed during pregnancy and so have become fat, sluggish, constipated and cross. Always make pregnant sows take abundant exercise every day during pregnancy and feed light, laxative rations, omitting corn and including silage or roots, and alfalfa hay. Turn the sows out at once and greatly reduce the rations; make creeps for the pigs, so that the sows cannot lie on them.

PARALYSIS.

I have six young Duroc sows that have eight or nine pigs apiece about three weeks old. About a week ago three sows began to go lame in their hind legs, were lame for a day or two and then they seemed to get stiff all over and now one of them is down and cannot get up. Another one gets down and has to be helped up and still another is lame just as these two started. They have no swelling, but when I help them up it seems to hurt them. They have been fed equal parts of oats and corn ground and made into slop, with very little ear corn, and a sprinkle of oil meal and some alfalfa meal. This was fed before farrowing and after the same way. They have good, dry sleeping quarters.

This trouble is wholly due to overfeeding and underexercising the sows during pregnancy. They should have had light, laxative slop and no corn, while roots or silage and alfalfa hay round out a suitable ration. Wean the pigs at once and put the sows onto a ration of light slop and lime water.

LAME SOW.

A sow has been lame in her hind feet for about five or six weeks and seems to get worse all the time. She seems to be in misery every time she tries to get up and when she does get up and walks she crosses her hind feet, walks a few steps and then the hind feet seem to give away. She has been in a stable partly floor and partly dirt and sometimes she would lie on the dirt part even in wet weather. She weighs between 250 and 300 pounds and is about two years old.

See answer under head of "paralysis" in this issue. The condition is due to causes there mentioned.

DISEASED BONE.

I have a roan mare about twelve years old. About nine months ago I noticed a swelling or enlargement, almost as large as my hand under her left eye, and it seemed difficult for her to breathe and when pulling she would snore and puff. I took her to a veterinary and he found that she had a back tooth so badly decayed that he had to trephine to remove it. This was done seven or eight months ago, and the hole has never entirely healed. It discharges a thick yellow matter that is very offensive through both the opening and her left nostril. I have used several kinds of medicine from the local veterinarian, but with no improvement. At present am using peroxide of hydrogen which cleanses it thoroughly, but in eight or ten hours it is as bad as ever.

Diseased bone is present and the part should again be trephined and the bone and pus removed. Afterward flush out once daily with a lukewarm 1 per cent solution of permanganate

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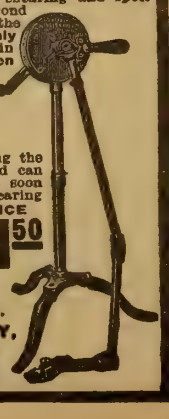

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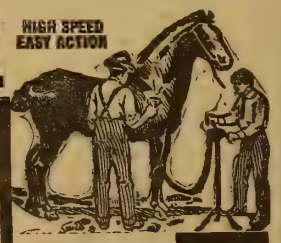

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of potash and then plug the hole with oakum to keep it from closing too quickly.

THAT NEW STALLION LAW.

To the Editor of The Homestead:

In one of your recent issues I noticed a criticism on the recent amendment to the Iowa stallion law and I most heartily endorse Mr. Smith's criticism. In the first place it is a slap in the face of every honest man who owns a stallion. The law as it was required him to make oath that his horse was free from disease or blemish and that said stallion was free from hereditary, infectious, contagious or transmissible diseases, but this, it seems, is not deemed sufficient; a veterinarian must look him over, simply look wise and professional and collect his fee. And not only that, but each year thereafter during the active service of said stallion he must pass inspection for which the state receives $1 and the veterinarian whatever fee he sees fit to collect. Talk about graft, what do you call that?

In the first place, what man owning a stallion would dare to go before a notary and perjure himself, running the risk of a heavy fine or imprisonment? I have a standard-bred stallion and we have been together every day for nearly nine years. He has been examined by veterinarians I think about three times. In March I signed up, went before a notary, made the oath that I supposed was required by law and sent in my $1. In a few days back came everything but the dollar with the notice that the law required a veterinary's signature. This was the first time my oath could not be taken. Of course, the case is very grave; a sound or unsound stud horse against a fine of $100 or thirty days in jail.

Warren county, Ia. P. C. Stire.

SEPARATING THE SEXES.

A subscriber from Tama county, Iowa, submits the following inquiry in regard to his ducks:

I have two breeds of ducks, the Tame Mallards and Indian Runners. These ducks and drakes have been mating together and I desire to set only pure strain eggs. How long after I separate the two breeds before I can set the eggs, knowing they will not hatch mixed breeds? My Runners have been laying since in January and I now desire to separate the breeds.

This is a question which no one can answer, positively. Generally speaking, it depends largely on how long the duck has been laying after the last fertilization, how nearly through she is in producing the present clutch of eggs, and knowing this, it would be difficult to say just how long the effect of the copulation exists.

According to the Maryland Experiment Station, hens that were yarded without males produced seven fertile eggs out of ten laid the fourth day after a cockerel was added to the yard. In another pen four eggs were laid on the seventh day and all were fertile. In another test, eight eggs were laid on the eighth day and all were fertile. From ten days to two weeks would seem wholly safe where the females had not been mated.

When the females are bred it is a complicated affair. The eggs might be all right in a couple of weeks, possibly in less time, and again these ducks might throw off colored ducklings well up into the summer. There are instances where a hen laid, hatched and weaned her chicks, stole her nest and hatched another brood, that had no resemblance whatever to the common flock with which she had run, but was the exact counterpart of her first brood sired by a cock of her own breed. One year we kept an immense farm flock to produce infertile eggs. Late in the summer a biddy was found sitting, supposedly on spoiled eggs dumped into a ditch. They were well advanced in incubation and the range cockerels had all been disposed of early in April. These, of course, are isolated cases.

As those ducks are laying regularly it is practically safe to assume that the effect of the present mating would disappear within two weeks. If any one of them is not laying and copulation has taken place, then is the above all to the bad.

A good plan is to separate the breeds, and keep the females isolated for about ten days, then add the males to the yards. For the most part it will be a safe proceeding. If using for home incubation, good and well. A mixed youngster could be quickly detected. But if we ship eggs for hatching and even one cross would crop out, then are we in for it.

This indiscriminate mating is to be deplored from another standpoint as well. All animals, including fowls, have their favorites. It is well if this sort of thing does not occur until the pens are yarded, because many times a fowl both male and female positively refuses to accept another mate when once his choice is made.

Undoubtedly the tastes of a community have much to do in the establishment of prices. For instance, in New York the price per hundred pounds for cabbage was given at twenty-four cents. In Alabama $3.30 per hundred was the figure.

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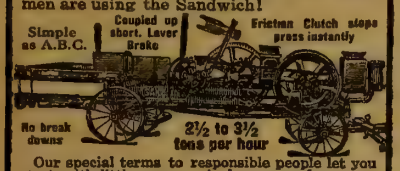

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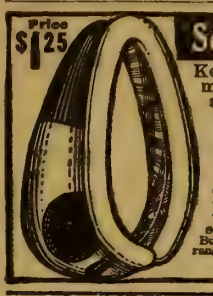

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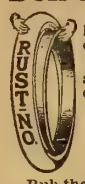

More tires are ruined by using a hammer or chisel to get them on or off than any other way.

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Rub the handy stick on the rim and bead of the tires. No brush needed, no waiting for it to dry, can't soil hands or clothing or injure tire in any way. **Guaranteed to prevent rust or tire freezing.** Ask your garage, or send 50c for full size stick, enough to coat 12 rims.

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LEGAL DEPARTMENT

(Continued from page 15.)

publisher of that fact. It is the duty of the postmaster to notify the publisher and the paper is legally stopped.

BOUNDARY LINE—ADVERSE POSSESSION.

An Iowa Subscriber.—A bought land adjoining B's farm and discovered that the partition fence was not on the true line, but over on the land he had bought. A wants the fence moved to the true line, but B claims it has stood where it is for twenty years and is therefore the line according to law. Can A compel B to move the fence on the true line?

Answer.—If the owners of the two tracts of land, have recognized the fence as the division line for more than ten years, and each owner has occupied his land up to said fence without objection or claim that the fence was not on the true line, then the fence marks the lawful line, and it cannot be changed. This is based upon what is called "adverse possession." But if the line has been in dispute, and the fence has not been recognized as the true line, then the only way it can be changed would be by a suit brought in the district court for that purpose, and in such case the fence could not be moved without having the true line fixed by legal proceedings in court.

LAWFUL FENCE—NEBRASKA.

A Subscriber, Verdigris, Neb.—I own 160 acres of land fenced with a three-wire fence. All neighbors who own lands adjoining mine have their lands fenced. I want to change my portion of the partition fences to a woven wire fence, say thirty inches, using the three wires to make it hog tight. Can I compel my neighbors to make their portions of the partition fence hog tight?

Answer.—You cannot, The kind of fences declared to be lawful by the law of Nebraska, are not necessarily hog tight. A person may construct a perfectly lawful fence in Nebraska, without it being hog tight. All you can do is to compel your neighbors to make their portions lawful, and it may be either a six-rail fence with stakes and riders, of a three-board fence with posts eight feet apart, or a three-rail fence with posts ten feet apart, or a four-pole fence with posts seven feet apart, or a four-wire fence with posts one rod apart and stays between or a "Warner's patent."

REPAIR OF FENCES—TIGHT FENCES.

An Iowa Subscriber.—A and B own adjoining land. There is a partition fence between their lands in good repair, but A intends to put a lawful woven wire fence on his part of the line and may try to compel B to do likewise. B's land is occupied by a tenant under a lease which provides that the tenant shall haul material and repair fences. In case A compels B to make his part of the fence tight with woven wire, can B compel his tenant to haul materials and construct B's part of the fence?

Answer.—The construction of a lawful tight woven wire fence, where a non-tight fence is located, is not in the nature of repairing fences, but is practically making a new fence, or a fence of a different kind, and under the lease mentioned, the tenant is only required to haul materials and repair fences. He is not required to haul materials and construct the woven wire fence.

SHEEP—DOGS—DOMESTIC ANIMAL FUND.

"Shepherd," Maquoketa, Iowa.—One night recently my neighbor's dogs got among my flock of sheep and killed five and injured others, two of which have since died, and caused some ewes to lose their lambs. (1) Has the county any funds with which to pay me damages? (2) How much does the law allow for a ewe with lamb? (3) The dogs keep coming on my premises to eat the dead sheep, and chase the live ones. What can I do with them?

Answer.—(1) Such damages as you have suffered are paid by the county out of what is called the domestic animal fund, which is made up from taxes collected on dogs. We presume your county has such a fund on hand, sufficient to pay such damages. The treasurer of your county could tell you exactly the amount on hand. (2) The board of supervisors may allow to a person whose sheep have been destroyed or injured, damages not to exceed 90 per cent of his loss. (3) You may lawfully kill the dogs when you find them chasing your sheep or other animals.

DEED TO HUSBAND AND WIFE.

An Iowa Subscriber.—Where a husband and wife own real estate the deed being a joint deed to both of them and one of them dies, can the other sell or handle the property, in case the deceased one left heirs?

Answer.—The law in Iowa provides that when a deed is made to two persons they become tenants in common unless it be expressly stated otherwise in the deed. The rule applies to a deed to husband and wife. Where a deed of land is made to husband and wife naming them as grantees and there is no clause in it providing for survivorship, or joint tenancy, each one thereby becomes the owner of an undivided one-half of the land, and when one dies, the other does not inherit all, but only one-third of the deceased one's half, if there be children, or half of deceased person's half if there be no children, and the heirs of the deceased person would get the other part of his or her half.

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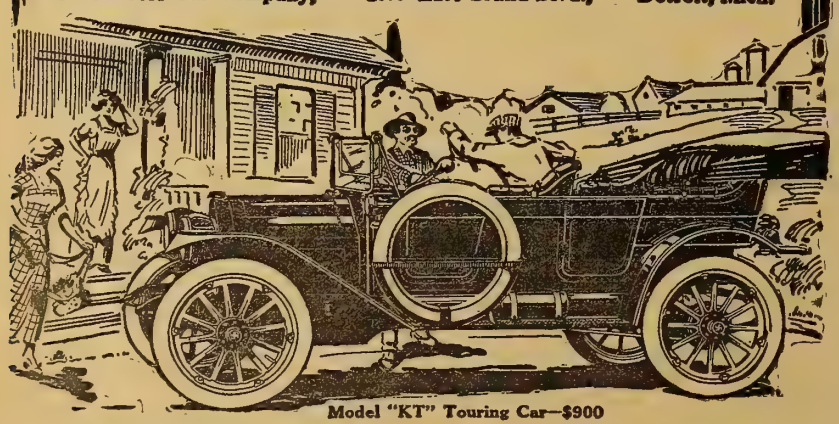

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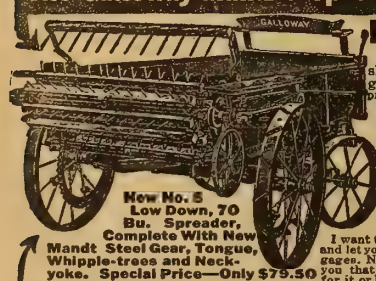

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

Although it will be some considerable time before the new scientific training to make housewives more efficient becomes anything like general it is interesting to note the progress being made in this direction. Work being done at the Mechanics' Institute in Rochester, N. Y., where practical courses are being given in household physics and chemistry, suggest the lines along which, it is to be hoped, future housewives will some sweet day receive general training.

As the majority of students at the Mechanics' Institute are from city homes supplied with city water, heated by furnace or steam or hot water, are lighted by gas or electricity and operated by the help of gas range, fireless cooker, vacuum cleaner and other modern appliances for domestic efficiency, many of the problems presented to the students for consideration do not confront the housewife in an ordinary country home. Others, such as ventilation, the nature and sources of heat and its transmission for the purposes of warmth or the preparation of food, the adulteration of foods and how to test foods, the purity of water and similar things, do. The main point for consideration is that systematic, definite effort is being made to make women intelligent, efficient housekeepers who will be masters of their business even as the husband is of his.

The comfort, health and happiness of the home are very largely in the hands of its mistress. Social workers in the crowded sections of our cities declare that much drunkenness and wife desertion are due to the fact that women do not know how to keep a house and cook food. Another point to be remembered is that modern life makes such demands upon the energy, strength and health that unless a family is wisely fed its members do not have a fair chance in the battle for subsistence. Still another is that until housekeeping is made a profession for which its members receive something like training housework will continue to be despised as a menial occupation. Every well wisher of humanity should be thankful for every forward step taken in the direction of practical training for future homemakers.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Ah, heart of mine, dost sit and sigh
And of weary days complain?
But sweet and clear from the maples near
The robins sing in the rain.
—Sarah L. Arnold.

Joy comes, grief goes, we know not how;
Everything is happy now,
Everything is upward striving.
—J. R. Lowell.

Then sing, ye birds, sing a joyous song!
And let the young lambs bound
As to the tabor's sound!
We in thought will join your throng,
Ye that pipe and ye that play,
Ye that through your hearts today
Feel the gladness of the May.
—William Wordsworth.

MONEY NOT NEEDED.

There are a great many lovely trees, shrubs and flowers in our woods and fields that transplant well, and add beauty to the home grounds, and it is a great pleasure in the spring days to go out after them. We should never let the delight of spring slip away from us if by any means we may catch it as it passes. All seasons are good, but there is nothing quite like the spring.

TRY FRESH AIR.

When you feel that "flying to pieces" inclination overtaking you, jerk yourself to order with the check rein of determination and then, if you cannot regain self-control, stop anything on earth you may be doing and go out of doors. If you cannot leave the home, lean out of a window, or step for a little while on a porch. You will not lose any time—you will, in fact, gain time by increasing efficiency in whatever you may be doing. Sleep also is a great restorer of nerves to a normal tone, and sleeping with all windows open secures for us two nerve cures at the same time. In foods, raw onions, carrots, lettuce and celery, with plenty of olive oil, are excellent nerve foods, all valuable as aids in the good work, but the chief remedy is strong will and the compelling of your body to obey your mind.

PIEPLANT IN MANY WAYS.

The agreeable acid of this, our first spring fruit, provides a wholesome appetizer after the heavy diet of winter. Pieplant may be served in a great variety of ways, thus avoiding any sameness in the bill of fare even when the same articles serve as the foundation for the various dishes.

Pieplant Custard Pie.—One cupful of stewed pieplant, one-half cup of sugar, two well-beaten eggs, two tablespoons of cornstarch dissolved in three-fourths cup of milk, mix well and bake under crust only. The white of one egg may be reserved if liked, and beaten stiff with a spoon of sugar for a meringue.

Pieplant and Raisin Pie.—For two pies take one cup of chopped pieplant, one cup of chopped seeded raisins, one cup of granulated sugar, butter the size of an egg, the juice of one lemon, and one well-beaten egg. Bake in two crusts. Canned pieplant may be used when the fresh is not to be had.

Pieplant Gelatin.—Soak three tablespoons of gelatin in cold water, boil one pound of pieplant in about half a cup of hot water. Add one and one-fourth cups of sugar to the gelatin, remove the pieplant from the stove and strain. Put back, add the gelatin and set away to cool. Serve with whipped cream.

AMONG OURSELVES.

Several inquiries have been made with regard to labor-saving appliances mentioned by the prize-winners in our recent contest on Household Conveniences. It is not the policy of the Home Department to recommend any article by name. If the friends become interested in a vacuum cleaner or a gasoline iron we are pleased that it should be so, but we cannot recommend any special iron—that would be to make Among Ourselves an advertising medium, which it may not be.

Mrs. E. J. H. Bedford, whose visit last week gave us so much pleasure, will talk to us again today—she said only half her say and we want to hear the rest of it:

At this time of year from my eastern bedroom window we get the full glory of the surprise, as we have an unobstructed view, away and away off. There has always been more of interest to me in a sunrise than in a sunset. There is so much of gladsomeness in the thought of a new day, with its new hopes and aspirations; a sunset speaks of the closing of the books, of failures, perhaps, and sadness. This preference is expressed, perhaps, in these lines that suggest themselves to me:

When blithe young Morning, with face all aglow,
Peering over the hills, her glad presence brings,
All nature awake to her gentle call, sings
Of the Maker and Keeper of all below,
The mantle of darkness is carried away;
The earth with new radiance is once again blest;
The wandering moon sinks away in the West;
All nature proclaims the birth of a day.

Then again one summer evening as I was washing the supper dishes and the shadows were beginning to gather, I looked out across the meadows from the open door. I was almost startled by a sea of mist hanging low over the lowlands, so real did it seem in the quiet and hush of the evening. As is the way with most of us, I was so engrossed with the material, work-a-day life that I had not noticed the wonderful transforming of grass land into a veritable sea. It looked so soft and silvery and I soon found it stealing away some of the disappointment I had felt because a lifetime friend had just written me she could not come as I had hoped. "This great, wide, beautiful, wonderful world" will be a very companionable friend, if we but let her—one that will be a solace and a never-failing source of joy.

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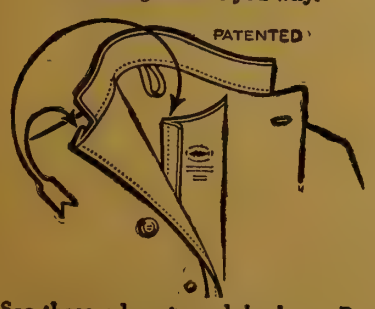

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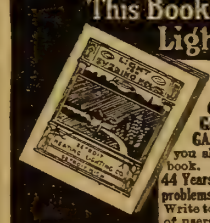

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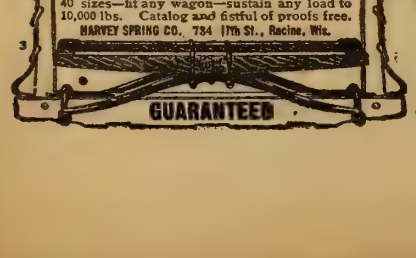

of-doors into our circle meetings as Mrs. E. J. Bedford has done is to confer a real favor upon us all. I sincerely hope our friend will come again—and as often as it pleases her.

Mrs. Knowlton Iowa has something for us from her housekeeping experience, and as she is an eminently sensible woman what she brings us is something worth while:

In regard to modern methods of housekeeping, mine are mostly of my own making, so they are not very modern, but since visiting some of my rich relatives I have come to the conclusion that I have things arranged to save steps, where they have not. They have a ten-room house while I have four and a screened porch, enclosed with oilcloth and building paper in winter. My kitchen is my home, as I spend most of my time there. I have a homemade wash stand covered with white oilcloth and an oilcloth splasher back of it with pockets in it for hair brushes, tooth brushes and combs, also a small mirror hanging above. There are two shelves in the stand and a door on it. On one shelf I keep towels, wash cloths and everyday aprons, on the other stockings. I noticed the relatives with the ten-room house run up stairs for their towels and aprons. I also have an old bureau which I call my sideboard. It has four drawers in which I keep my table cloths, napkins and best aprons; now the relatives run up stairs for these things also. Although I have rugs in my front room and bedroom I have carpet in my kitchen in the winter, with small rugs that I can take up and wash often. There was a porch 6x14 feet off the kitchen and I wanted a pantry, so I enclosed half of it, cut a door through into the kitchen, put up shelves, made a table cabinet, put my oil stove in it and was happy. Now I do my washing on the porch in winter. The gasoline engine is the most useful modern household appliance, I think, where one has the room for it, as it will run the washing machine, ringer, churn, cream separator and even rock the baby if one wishes.

Ingenuity, skill in adapting what one has to what one wants is a valuable faculty in a housekeeper—as what Mrs. Knowlton Iowa has been telling us aptly illustrates. If every woman would determine to make the very best of what she has, take stock as to possibilities and then resolutely go to work what improvement there would be.

I am always pleased when one of our men friends brings us a message. I therefore take pleasure in introducing Ranger Scotch, who does his own housekeeping and is therefore specially entitled to a hearing from housekeepers:

Although a western stockman I excuse myself for butting into the subject of modern housekeeping for the reason that one up a tree has unusual opportunities for observation. In these days of universal conservation of resources the average housewife is less scientific in methods of conserving her strength than a bricklayer. The husband is not altogether blameless in failing to provide conveniences. A well-established system saves hours every day. Potatoes prepared the previous evening, cereal in double boiler, breakfast cooking while the lady makes her toilet. I recommend an oil stove during hot weather. Powders and face lotions cannot equal it for the production of that cool, cheerful and dainty look in the housewife which we all admire. A well-ordered pantry with a place for everything and everything in its place. Small table with ball-bearing castors, to save strength and time between pantry, kitchen and dining room. Sink, with water supply in the house or close beside the kitchen door. Oiled floors, a saving in expense as well as labor. Rugs instead of carpets, they are more sanitary and more easily kept clean. Folding clothes rack for ironing day. Sliding breadboard and drawers under kitchen table. Bread mixer. Please note that I am describing a very ordinary home. Electric lights, furnace heat and many other desirable acquisitions are not often found in the common farm home. However, truth is stranger than fiction. Sometimes the new way is more economical than the old. For economy coal is not to be compared with oil and fireless cookers. The kitchen is the housekeeper's work shop. A small kitchen with the walls well arrayed with housekeeper's tools and everything within swing of the worker's arm is more convenient than a large one.

A vote of thanks is in order. Ranger Scotch has given us food for thought, and done so in such a way that we are not likely to forget him or what he has said. I wonder how many of our housekeepers have the nine things he recommends? If housekeeping were a man's regular business—as it is a woman's—he would have them all. The kitchen on a Pullman car, though small, is perfectly equipped, kitchens on shipboard and in hotels and restaurants are fitted up so as to save labor and expedite action; it should be so in every kitchen in every home in the land.

Ask your neighbor to subscribe for The Homestead.

THE YOUNG FOLKS

Letters and articles for this department should be addressed to Aunt Mary, Hawley, Minn.

SPRING JOYS.
(First Prize.)

Old springtime once again is here,
The jolliest time of all the year.
The leaves have nearly covered the trees;
On blossoming flowers alight the bees;
The grass so green spreads o'er the ground;
Throughout the day comes the cricket's sound;
The sky above is blue as the sea;
And the birds are singing merrily.
—Poetic Jack.

A Flower Hunt.
(Second Prize.)

One day at school our teacher told us we could go flower picking in the afternoon. We were all anxious to

LADY KATE, AGE 12.

go, as children always are when something pleasant is going to happen. When noon came we hurried to eat our dinner so we might get an early start. We emptied our dinner baskets to carry the flowers in. We had a jolly time going and coming. Our teacher went with us. When we got to the woods, there were the most Mayflowers, Dutchman's breeches, violets and other spring flowers. We went through all the woods hunting for flowers. We were all sorry when it came time to go back to the school house.—Heidi, age 13.

A Good Joke.
(Third Prize.)

One day some of us boys decided to play a joke on the school-teacher. We thought we would catch him out of the room and put a pin in his chair. We thought it would be a good joke to see him jump when he sat down. We watched till we saw him leave the room. We didn't want anyone else to see us, so we had to wait until every one else got out of the room. When the room was clear we put the

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WE SHIP ON APPROVAL *without a cent in advance*, to any person, anywhere in the United States, and *prepay the freight*. We only ask you to examine and try the "Ranger" *without a cent expense to yourself* before you think of buying any other bicycle.

10 DAYS FREE TRIAL is allowed on every "Ranger" bicycle. *Not a cent cost* to you if you do not wish to keep it after riding it for 10 days and putting it to every test. Our "Ranger" bicycles are of such high quality, handsome appearance and low price that we are willing to ship to you, *prepaid*, for your examination and trial, and leave it entirely to you whether you wish to keep it or not.

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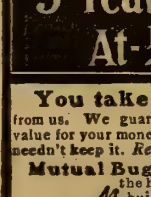

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You see in this picture a boy riding one of the $250 Pope motorcycles we are giving away. We have already given away four of these splendid machines and here is your chance to get the fifth one. In different parts of the picture are the faces of several other boys. They are hard to find but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (x) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horse power motorcycle and many other prizes. You can win.

1500 Votes Free I will send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once. People's Co., 588 Popular Bldg., Des Moines, Ia.

pin in the chair and ran out of the room. We watched, and when we saw the teacher we began to peep in at the window. He sat down, but did not jump. We were disappointed. We went away, and afterwards learned that someone had taken the pin out of the chair. The joke was on us.—Ole.

Stories About The Browns.—Thomas Enjoys Giving.

(Prize Story.)

It was near Easter. Thomas had gone past a store and saw the window was full of Easter eggs and chickens. Thomas liked one gold egg very much, but he knew he could not have it, because his mother could not give him any money. And the egg cost 50 cents. The longer he saw it, the more he wanted it. At last he went home. On his way he decided this. He only had to work a little while during the day; in the morning he had to gather wood, in the afternoon he had to deliver washings. So he would work to earn the egg and give it to his mother. It took him only two days, and then he had 75 cents. The next day he went and bought the egg. The chickens were only five cents, and as he still had 25 cents, he bought three for Florence and Belle and William, and one for himself. Easter morning dawned bright and early, and I bet there wasn't a happier boy when he saw the happy faces of his mother, sisters, and brother. Thomas had learned that there is happiness in giving.—Bertie-ha-ha, Age 11.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 5, Gen. 40. May 4, 1913.

JOSEPH INTERPRETS DREAMS—THE STORY.

Joseph was a rose of Jericho. He bloomed anywhere. Palace, pit, or prison, it mattered not. He was brilliant and fragrant under most adverse conditions. He has justly become the universal ideal of personal purity and disinterested kindness. That is what makes his story so fascinating and valuable in the highest degree. As it is a transcript of human life, it is illuminating and applicable wherever and as long as there is human life. Joseph came in contact with a superb civilization, the architecture of which remains a marvel to our day. He heard more musical instruments than he ever dreamed of; harp, lyre, guitar, flute, single and double pipe, tambourine, cymbal, and drum. He saw more industrial arts plying than he knew were in existence; the making of pottery and glassware and metal vessels, arms and domestic implements, and the weaving of such linen as the modern loom cannot match. Egypt was to Joseph a schoolroom crowded with object lessons. He was getting all the advantage of foreign travel and residence; coming in contact with one of the oldest and best civilizations of earth; reading its literature, studying its laws, observing customs. That was what providence sent him to Egypt for. His position as a domestic slave, instead of limiting his opportunities, actually added to them. But the rose tree in Joseph's lovely character developed into a sturdy oak under the blast of powerful temptation. He stood erect, crying: "How can I do this great wickedness and sin against God?" Conscious of innocence and integrity, he suffered with patience the foul imputations against his character, which he could deny but not disprove, the circumstantial evidence being strong against him. Now followed the second great and inexplicable reverse in his career. The lot of a slave was bad. That of a prisoner was worse. The question "Why?" must have often framed itself in his mind, but he did not brood over his lot. On the contrary, he adjusted himself to the situation. Just as in the palace of a prince, so in the prison of a king, he gave such evidence of capacity and fidelity that everything was put in his hands, so that whatever was done there, "he was the doer of it." After his own fateful experience in dreams, one would have thought he would have side-stepped the dreams of his fellow captives. That he did not do so is evidence of his strong human feeling. For one, he anticipated the joy of deliverance. The other he helped to prepare for his impending doom.

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ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5972 Girls' Dress.—This attractive frock may be made with long or short sleeves and with plaited or gathered skirt. It closes at the front and is quite a simple model to carry out. The sailor collar is a nice feature and this may be made of self material or of contrasting goods as preferred.

The pattern 5972 is cut in sizes 6 to 12 years. Medium size requires 3¼ yards of 36-inch material with ⅜ yard of 27-inch contrasting goods. Price of pattern ten cents.

4480 Boys' Russian Dress.—The Russian dress pictured herewith is for the small boy who has not yet reached the age when trousers are worn. The garment is made simple and plain with the closing at the right side of the front. Any of the wash materials can be used to make this dress.

The pattern 4490 is cut in sizes 1 and 2 years. The two-year size requires 2 yards of 27-inch material. Price of this pattern ten cents.

5865 Ladies' Dress.—This dress is just the thing for afternoon wear. It can be made with either the high or low neck. The skirt is a three-piece design. Linen, serge or pongee can be used to make this dress with the trimming of contrasting material.

The pattern 5865 is cut in sizes 32 to 42 inches bust measure. Medium size requires 4⅝ yards of 36-inch material with ⅜ yard of 27-inch contrasting goods. Price of pattern, ten cents.

6009 Ladies' Shirt Waist.—This shirt waist will be just the thing for wear with a tailored suit. It can be made with either the standing or rolling collar. Linen or madras can be used to make this waist with the collar and cuffs of contrasting goods.

The pattern 6009 is cut in sizes 32 to 42 inches bust measure. Medium size requires 2 yards of 44-inch material with ⅝ yard of 27-inch contrasting material.

3751 Good Kitchen Apron.—The woman who does housework needs an apron that protects the waist as well as the skirt. This one-piece apron is of that kind and will be found satisfactory in every way. Gingham or linen can be used to make this apron.

The pattern 3751 is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 4½ yards of 36-inch material. Price of pattern, ten cents.

Oklahoma farmers pay higher interest rates than those of any other state. The average is 11.58 per cent per annum, according to information obtained by the Department of Agriculture at Washington. Forty banks reported from Oklahoma. One quoted an average rate of 8 per cent, twenty-four reported an average of 10 per cent, two averaged 11 per cent, five received 12 per cent, five obtained 15 per cent, one 18 per cent and two reported an average rate of 20 per cent.

LEARN to cut and fit and make your dresses at home in a stylish and up-to-date fashion from the National School of Dressmaking. The simplest and least expensive system in existence, and the only school of real tailor cutting by a yard stick and tape line. The same method as is taught in Paris, France. Many of my pupils are earning fine salaries. Write for particulars and free catalog.

NATIONAL SCHOOL OF DRESSMAKING
Des Moines, Iowa.

When writing to advertisers please mention The Homestead.

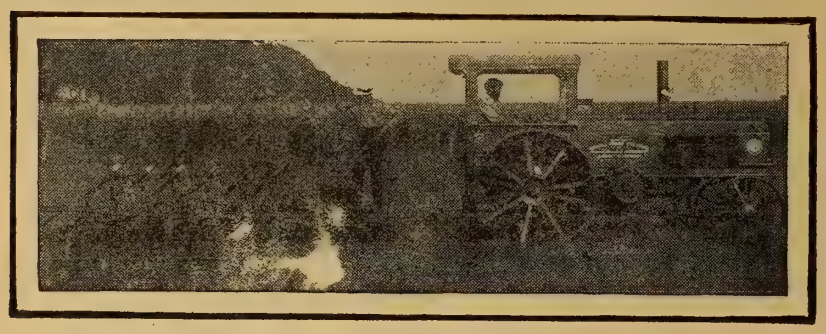
WHY FARMING WITH TRACTOR IS BEST.

(Continued from page 3.)

on a farm of one hundred and sixty acres or over.

Considerable confusion exists as to the correct meaning of the words horse power. There is no difference between steam and gasoline or electric horse power. Horse power is defined as the ability to perform 33,000 foot pounds of work per minute at the crank shaft twenty-four horse power when used for belt work.

Under average conditions a 12-24 horse power will pull three or four fourteen-inch plows and plow ten or twelve acres per day. A tractor rated 20-40 horse power will pull eight to ten plows and turn fifteen to eighteen acres per day, while a tractor rated 40-80 horse power will turn twenty-five to thirty acres per day. A man with a medium-size farm of 160 to 400 acres should own about a 12-24 horse-power tractor; with a 400 to 700-acre farm



GANG PLOW OUTFIT—BEATS NINE HORSES AND THREE MEN.

or pulley and this is known as brake horse power. We have another rating of horse power used in connection with the tractor and this is known as "drawbar horse power," meaning the amount of power obtainable at the drawbar or the amount of pulling power.

A tractor requires from 10 to 25 per cent of the power it develops merely to move itself over the ground. There are friction losses in the gearings and bearings using up considerable power. Under average conditions about two-

TRACTOR IN SMALL FARM PLOWING.

thirds or 66 2-3 per cent of the power developed at the crank shaft can be used at the drawbar. Where the ground is soft it may be cut down to one-third or 33 1-3 per cent of the power developed at the crank shaft, but in rating the engines the manufacturers generally rate them at about one-half or 50 per cent. In this way a tractor which develops twenty-four brake horse power would be rated 12-24, meaning it would develop twelve horse power for traction purposes and he should have a 20-40 horse-power tractor and where larger farms are tended or outside work is to be done the correct size to buy is the 40-80 horse-power type, which is capable of most any kind of heavy work.

Below is given the actual cost of feed and labor as between the horse and tractor farming while in operation, these figures being the average for plowing with a 12-24 horse-power engine and a self-lift plow with one man for operation one day:

Cost with twelve horses:	
7 bushels of oats at 35¼c	$2.45
187 pounds of hay at $10.00	.94
Labor of three men at $1.50	4.50
Board of three men at 50c	1.50
Total	$9.39
Cost of same work under same conditions with a 12-24 horse-power tractor:	
Average fuel cost	$2.80
1½ gallons lubricating oil	.40
Cost of engineer	2.50
Board for engineer	.50
Total	$6.20

Thus it will be seen that farming one ten-hour day with horses will cost about $9.39, while farming the same length of time with a 12-24 horse-power tractor will cost about $6.20, a saving of about $3.19 per day by the use of the tractor and at the same time doing a better grade of work.

The first cost of twelve good horses

TRACTOR OPERATING PLOW AND ROLLER.

that will last as long as the tractor, including harness, etc., will be about $2,400, while the cost of a good 12-24 horse-power tractor will be $1,200 f. o. b. factory, showing that the tractor costs only one-half the price of the horses and is capable of doing more, better and steadier work regardless of heat.

There are so many different types of tractors on the market today that the man who is not an expert mechanic does not know which way to turn when he is in the market for a tractor. Every company claims its tractors are the best and point with pride to a few special features which they have adopted. They claim to have the best governors, the best carburetors, etc., but I have never yet heard of anyone taking the carburetor off his automobile and replacing it with the kind he uses on his tractor.

A tractor should be equipped with a good lubricating system which will lubricate all working parts thoroughly and thus prolong the life of the engine. It should be of moderate weight, as one that is too heavy will sink in too deeply, thus using up its power, while one too light will not last. A 12-24 horse-power tractor should weigh 6,000 to 9,000 pounds; a 20-40 horse power 10,500 to 12,500 and a 40-80 horse power should weigh 18,000 to 22,000 pounds.

The fuel question of the future has been the subject of deep thought. With gasoline coming up daily in price it will soon reach the limit at the present rate of advance. Therefore we must look for another fuel which is inexhaustible in quantity and can be made out of farm materials which now go to waste. This wonderful fuel is alcohol and when the prices on gasoline and kerosene go too high it will naturally take their place as the fuel for internal combustion engines. When the demand becomes great it can be produced in large quantities at a very reasonable cost and no doubt the day will come when we can operate our internal combustion engines cheaper with this fuel than we now can with gasoline or kerosene. However, like all other projects, it is doubtful if this will be taken hold of until gasoline and kerosene have reached a very high price. Alcohol can be burned in engines designed for gasoline and it may be assumed that such an engine will develop as much power with alcohol as fuel as with gasoline. This being the case the fuel which is placed before the public at the lowest price will be the one which will become general in use and alcohol looks very favorable to meet this condition.

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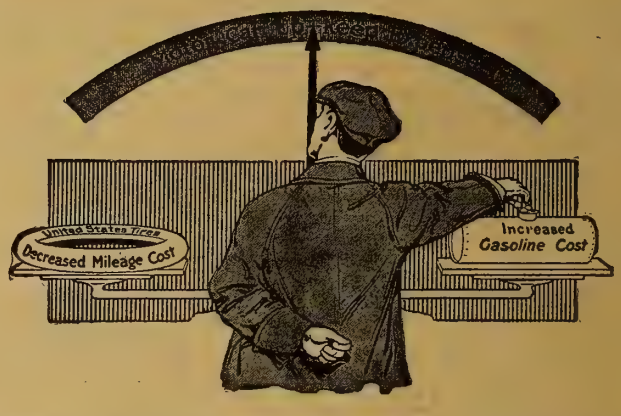

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NEWS OF THE SALE RING

Geo. Allen & Sons' Short-Horn Sale. The great gathering of Short-horn breeders brought together at the sale of Short-horn cattle made at South Omaha on April 22d, by Geo. Allen & Sons, Lexington, Neb., was certainly a fitting tribute to the good work of the late Geo. Allen as a breeder of Short-horn cattle, and evidenced the feeling of good will entertained by Short-horn men everywhere for those that now carry on the work where that master breeder left off. One of the best sales ever held within the state of Nebraska was made, and while good prices were realized, yet extra value was rendered in every instance. Bellows Bros., Maryville, Mo., were among the strong buyers of the sale and paid the top price. F. W. Harding, Anoka Farms, Waukesha, Wis., probably secured the greatest value of any in the cow line, and without question K. F. Dietsch, Orleans, Neb., secured the bargain of the bull offering when he purchased the great young bull, Count Victor, a grandly bred Victoria and an individual that fills the eye of the practical Short-horn breeder. The grand breeding cow, Sunbeam Violet 5th, one of the very best of the Allen herd went to the new breeder, Wm. Arrowsmith, Exeter, Neb., and at considerably less than she should have brought. Col. H. S. Duncan did the selling and rendered excellent service to both buyers and sellers. Col. Duncan stands today as the foremost man in that line in America. The complete report of the sale is as follow:

COWS.

Butterfly Lady 9th, calved May, 1908; Howell Rees & Son, Pilger, Neb. $300
Lady Missie 10th, calved April, 1908; Bellows Bros, Maryville, Mo. 505
Raspberry of Anoka, calved August, 1909; Fred Wordiman, Wisner, Neb. 325
Lady Clipper 3d, calved July, 1910; B. H. Ahenholtz, Defiance, Iowa. 495
Sultan's Blossom 2d, calved October, 1911; Sni-A-bar Farm, Grain Valley, Mo. 245
Sunbeam Violet 5th, calved January, 1904; Wm. Arrowsmith, Exeter, Neb. 305
Clara A., calved November, 1906; Thos. Stanton, Wheaton, Ill. 330
Lady Secret, calved June, 1909; Howell Rees & Son 340
Village Maid 3d, calved September, 1909; Sni-A-bar Farm 395
Golden Venus 6th, calved April, 1905; Fred Wordiman 375
Butterfly Lady 5th, calved March, 1906; Thos. Stanton 295
Fusilier Queen, calved April, 1910; Anoka Farms, Waukesha, Wis.. 295
Spicy Belle, calved September, 1908; Clem Gude, Hamburg, Iowa 320
Golden Lady 2d, calved September, 1908; Bellows Bros 365
Lady Cinderella 3d, calved June, 1908; Anoka Farms 680
Lady Geraldine 4th, calved November, 1910; C. O. Timpe, Fontanelle, Neb. 300
Nonpareil Lady 10th, calved October, 1907; O. A. Strahan, Malvern, Iowa 310
Caroline, calved July, 1910; Own Kane, Wisner, Neb. 510
Lavender Princess 7th, calved January, 1912; Bellows Bros. 360
Missie of Browndale 99th, calved November, 1910; M. J. Fitzgibbon, Missouri Valley, Iowa. 260
Lady Spicy 2d, calved September, 1909; G. F. Hart, Summerfield, Kan. 240
Allen's Missie, calved April, 1911; F. O. Brown, Carthage, S. D. 290
Moss Rose 7th, calved October, 1911; Bellows Bros. 275
Roan Rosemary 2d, calved September, 1911; J. D. Nutter, Morrowville, Kan. 255
Scottish Lady 6th, calved May, 1911; F. O. Brown 200
Missie V., calved January, 1901; J. W. McCune, Cummings, Iowa. 205
Lady Missie 20th, calved November, 1910; White & Smith, St. Cloud, Minn., ... 245
Lady Missie 22d, calved June, 1911; Owen Kane 250
Greengill Flora, calved June, 1903; Grigsby & Barber, Skidmore, Mo 425
Nonpareil Lovely, calved December, 1908; L. R. White, Lexington, Neb. 300
Orange Lady 2d, calved May, 1907; O. H. Strahan 255
Anoka Blossom, calved May, 1910; M. J. Fitzgibbon 240
Nonpareil Lady 17th, calved May, 1911; Gates & Mains, Albion, Neb. 245
Acanthus Lady 12th, calved July, 1909; A. L. Meith & Son, Cairo, Neb. 595
Acanthus Lady 16th, calved August, 1909; J. W. McCune 355
Bonnie Lady 3d, calved June, 1911; Parker Bros., Hooper, Neb. 175
Diamond 36th, calved September, 1909; S. A. Nelson & Sons, Malcolm, Neb. 235
Butterfly Belle 2d, calved September, 1908; C. O. Timpe 300
Lady B., calved November, 1909; S. A. Nelson & Sons 350
Orange Gem 2d, calved June, 1911; Gates & Mains 205
Orange Lady 7th, calved June, 1909; Not sold 190
Lady Mysie 2d, calved May, 1911; C. O. Timpe 200
Lancaster Lady 3d, calved April, 1911; T. J. Sands, Robinson, Kan. 200
Lady Athene 5th, calved June, 1911; O. H. Strahan 200
Duchess of Gloster 4th, calved August, 1910; Retzlaff Bros., Bennett, Neb. 285
Lady Victor 3d, calved October, 1909; J. W. McCune 200

BULLS.

Count Lavender 3d, calved November, 1910; L. R. White, Lexington, Neb. 505
Brampton Sultan 3d, calved July, 1911; A. O. Stanley, Sheridan, Mo. 330
Count Victor, calved November, 1910; K. F. Dietsch, Orleans, Neb. 325
Chietain 4th, calved November, 1911; M. J. Doyle, Neola, Iowa.. 255
Blossom Lad, calved March, 1912; W. A. Wells, David City, Neb.. 410
Missie's Sultan 3d, calved July, 1911; H. Oelrich, Columbus, Neb. 240
Clinker, calved April, 1911; A. Douthit, Fullerton, Neb. 300
Diamond 2d, calved November, 1911; A. D. Romberg, Scribner, Neb. 165

SUMMARY.

45 females $14,470; average....$321.50
8 bulls .... 2,530; average.... 316.50
53 head .... 17,000; average.... $320.75

The Firme & Stone, Short-horn Sale.

One of the best sales of Short-horn cattle ever held in central Nebraska was made by R. C. Firme & Sons, Hastings, and A. A. Stone, Hansen, the sale being held at Hastings on April 23d. There was a steady rain all day which greatly interfered with the automobile attendance, which is a great factor in this section of the state. There was a good gathering of breeders from a distance however, and the bidding was snappy from the start. Credit is due the gentlemen making the sale for the fine manner in which they conducted the auction and the choice lot of breeding stock offered. K. F. Dietsch, Orleans, Neb., and L. Chestnut & Sons, Geneva, Neb., were the heaviest buyers and the strongest bidders, really constituting the chief support of the sale. Col. H. S. Duncan did the selling. Those selling for $100 or more are listed as follows:

COWS.

Lady Violet, calved May, 1904; J. H. Hoagland, Hastings, Neb. $130
Substitute for Rosemary, calved June, 1907; C. E. Higginbotham, Hastings, Neb. 125
Rosetta, calved May, 1911; G. L. Rouse, Alda, Neb. 110
Sweet Lady, calved January, 1910; G. F. Hart, Summerfield, Kan. 230
Crimson Bud, calved April, 1909; K. F. Dietsch, Orleans, Neb. 145
Mary Queen, calved April, 1911; G. F. Hart 145
Queen Violet, calved December, 1908; F. O. Barber, Skidmore, Mo. 120
Roan Victoria, calved April, 1911; H. A. Barens, Summerfield, Kan. 145
Lady Duchess, calved November, 1906; E. W Cosgrove & Son, Farnam, Neb 155
Daisy Kuper, calved February, 1910; F. O. Barber 160
Lady Napier, calved May, 1901; J. M. Steward & Son, Red Cloud, Neb. 105
Ollie Jane, calved September, 1908; W. E. France, Bladen, Neb. 230
Miss Dorothy, calved March, 1911; K. F. Dietsch 135
Acorn, calved October, 1910; H. A. Barens 200
Blooming Girl, calved August, 1910; L. Chestnut & Sons, Geneva, Neb. 230
Virginia Maid, calved April, 1909; K. F. Dietsch 195
Extra Goods, calved May, 1910; L. Chestnut & Sons 175
Queen of Fairfax, calved June, 1910; L. Chestnut & Sons 140
Lady Mary 2d, calved April, 1910; C. E. Higginbotham 135
Fannie Jessie, calved September, 1910; C. E. Higginbotham 205
Big Emma, calved December, 1907; G. L. Rouse 130
Champion Girl, calved February, 1910; J. E. Macrum, Haigler, Neb. 175

BULLS.

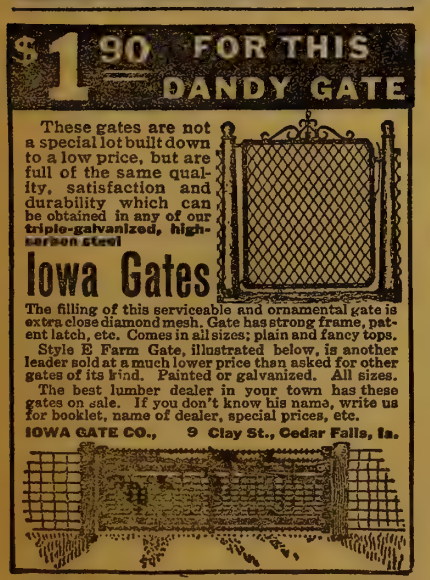
Roan King, calved June, 1912; G. E. Samuelson, Osceola, Neb. 100
True Goods, calved May, 1912; Joe Harrod, Ayr, Neb. 105
Prince of Goods, calved April, 1912; P. P. Nelson, Holdrege, Neb. 135
Real Goods, calved March, 1912; E. E. Arterburn, Lincoln, Neb. 105
Forest Count, calved March, 1912; Geo. Blake, Wray, Colo. 155
Gem's Champion, calved April, 1912; E. E. Arterburn 105
Emma's Champion, calved March, 1912; Robert Johnson, North Loup, Neb. 100

SUMMARY.

24 females ..$3,875; average....$161.50
10 bulls .... 970; average.... 97.00
34 head .... 4,845; average.... 142.50

Seventy-three factories are engaged in the manufacture of beet sugar in the United States. The quantity produced last year was 692,556 tons. The average working period for the factories was eighty-six days. This required 5,224,377 tons of beets. They were grown on 555,300 acres of land, and the average beet production per acre was 9.41 tons. The state of Michigan, which has seventeen factories, and the greatest number in any one state, has the smallest yield of beets per acre—6.75 tons. Colorado excels all other states with a yield of 11.32 tons per acre. California beets lead in percentage of sucrose, or pure sugar contents.

Ask your neighbor to subscribe for The Homestead.



IMPROVED CORN HUSKER Five samples to introduce, postpaid, $1.10. Money back. Clark, 54 W. Lake St., Chicago.

Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 800 Popular Bldg, Des Moines, Ia.

Free To Boys

I Have a Glove, Mitt, Mask, Ball, Bat, Cap and Belt for Every Boy Who Will Write to Me.

There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 304 Popular Building, Des Moines, Iowa

Cheap as Wood We manufacture Lawn and Farm Fence. Sell direct, shipping to users only at manufacturers' prices. WRITE FOR FREE CATALOG. UP-TO-DATE MFG. CO., 927 10th St., Terre Haute, Ind.

ORNAMENTAL FENCE
25 Designs—All Steel
Handsome, cost less than wood, more durable. Don't buy a fence until you get our Free Catalogue and Special Prices.
We can save you money.
Kokomo Fence Machine Co.
435 North St., Kokomo, Ind.

BROWN FENCE BIG BARGAINS in Fence. 150 styles—13 cents per rod up. We pay freight. Send for bargain fence book and sample to test—ALL FREE. THE BROWN FENCE & WIRE COMPANY, DEPT 34 CLEVELAND, OHIO

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

May 27, P. J. Donohoe, Holbrook, Iowa.
June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.

June 3, Thos. Stanton, Wheaton, Ill.
June 4, John M. Bay, Aledo, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Rees & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.
June 13, Whitsett Bros., Preemption, Ill.

Hereford Cattle.

May 6, Breeders' sale, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.

Holstein-Friesian Cattle.

Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Guernsey Cattle.

May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.

Poland China Swine.

Aug. 20, Williams Bros., Villisca, Ia.
Sept. 3, W. E. Zimmerman, Neola, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 22, Ed Seckington, North English, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

Ray L. Gribben, northwestern Iowa, South Dakota and southwestern Minnesota. Address West Hotel, Sioux City, Iowa.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

F. Bunker, Kilbourn, Wis., has two Polled Durham herd bulls, eighteen months old, and ten females that he is offering for sale in his advertisement appearing on page 29 of this issue. These animals have been tested and registered and Mr. Bunker announces that they are right.

Three good Poland China fall boars are offered for sale by Harry Dodds, Florence, Neb. These are all sired by I Am Big Too, the sire of the Nebraska State Fair winner, Futurity Jack. These are good ones and are well worth the money. He is asking $35 and $50 for them and they are bargains at that price.

Davenport & Mack, Belmond, Iowa, report the sale recently of the good red yearling Scotch Lancaster bull to Mr. Frank Riebhoff, Algona, Iowa, who will place him at the head of his herd of Short-horns. They state that this is an extra good bull and one that will leave his mark at Algona. The new advertisement of Davenport & Mack appears on page 29 of this issue.

On page 16 A. E. Stonebrook, Hampton, Iowa, advertises ever-bearing Americus strawberries at the rate of $1.50 per dozen and in larger quantities at a reduced price. The Americus is a continuous bearer of special merit. Other varieties named in the advertisement are selling at seventy-five cents per 100 or 300 for $2. Send orders to the address named.

The manufacturer of the Jackson automobile gives some important facts with reference to the care of the car, when he says: "The first thing to do in cleaning an automobile is to avoid wiping dust from the body with a dry cloth or a wet one. Even the finest dust will scratch the surface of the varnish and paint that make your car look so fine; and it is worse than foolish to attempt to wipe off mud stains. The only proper way to remove dust and mud is by washing. A heavy stream of water should be the first course, and this should not strike the car with great force. It should be directed slantwise against the sides of the body, and plenty of it used. If there is much mud on the wheels or body it should be allowed to soak well and soften before a sponge is applied; and then a constant stream of water should flow over the part being washed. A good soap should be used to remove grease or oil—never use gasoline. If a man wants to take especial care of his car's appearance it is well to shower the body thoroughly with water if a trip is to be made through mud or rain. This will prevent spotting of the varnish by mud and water."

The usual difficulty in securing binder twine just when it is needed should warn farmers not to put off making their purchases. In an advertisement on page 24 August Post, Moulton, Iowa, advises our readers that he is prepared to make quick shipments and sell on reasonable terms. He will sell at special prices to farmers' organizations or in car-load lots. He also wants farmers to act as agents. The publisher of this paper has enjoyed an acquaintance of a quarter of a century with Mr. Post and has learned that absolute dependence may be put in his business dealings. He has been handling binder twine for a great many years and has sold immense quantities of it to farmers who have found profit and satisfaction in the deal. For further information address August Post, Moulton, Iowa.

One hundred and twenty-five registered Holsteins consigned and guaranteed as represented will be sold at the Wisconsin Breeders' fourth annual sale to be held at the fair grounds in Watertown, Wis., on May 20th and 21st. In this sale only desirable sons and daughters of some of the best animals of the breed will be offered. The list includes females with credible records, in calf to sires whose dams and granddams have official records ranging from twenty-eight to forty pounds in seven days. All animals over six months of age will be tuberculin tested for universal shipment. Watertown is easily accessible on the Chicago and Northwestern, on the Milwaukee & St. Paul and interurban railways from Milwaukee, Fond du Lac, Janesville, and Madison. Write to S. E. Jones, Box E., Watertown, Wis., for catalog.

Duroc Jersey Fall Boars.

Some very choice Duroc Jersey fall boars are offered for sale by Madison Spencer, Audubon, Iowa, and he is pricing these at $25 to $40 if taken soon. They are well bred and are all right. When writing him kindly mention The Homestead.

Scotch Heifers for Sale.

On page 29 Perry O. Brown, Lamoni, Iowa, advertises twenty head of good Scotch heifers for sale bred to Velvet Goods and he is pricing them where they will sell. He also offers a few choice young bulls. Write him at once or go and see these cattle.

Choice Fox Terriers.

N. R. Rogers, Peru, Neb., a gentleman that is well known to the readers of this paper as a breeder of high-class Chester White swine is now offering a number of extra select Fox Terrier puppies as well as a limited number of females. These females will be sold open or kept and bred to the new stud dog which Mr. Rogers recently purchased at a very long price. This stock is absolutely first class, priced worth the money and every farmer should have one of these busy rat dogs about the place. Mention this paper when you write. Kindly notice the advertisement on another page of this issue.

Dynamite in Farm Work.

Modern methods and the application of power have worked wonders in practically every department of farm operation. By the use of dynamite ditches are almost instantly made where formerly days of hard labor with spade and shovel were necessary. Stumps and boulders are eliminated in the same maner. Subsoiling and excavation are also cheaply done. Some of these statements may appear strange to our readers. If that is the case very good proof may be found in the Farmer's Handbook No. 105 which is advertised on page 16 and which may be secured without cost, by application to Du Pont Powder Co., Wilmington, Del.

Swan & Ellis Durocs.

The other day when we visited the herd of Swan & Ellis, Indianola, Iowa, the men folks were absent, but we took a survey over the farm and we saw a splendid lot of spring pigs and it looks as though they are going to be right for the coming season. No one bought better sows last winter than did this firm and with what they already had it looks bright for them the coming season. Later in the season we will tell you more about their Durocs. They will make a sale together with Will Sells on August 8th, and you can figure on their having something the breeders will want.

Hechtner's Galloways.

Those of our readers who are wanting a good Galloway bull should read the advertisement of C. S. Hechtner, Chariton, Iowa, on page 29. He is offering fifteen splendid young bulls for sale and most of these are good enough to head good herds. Some of these are sired by his celebrated old bull Standard Favorite and others by Othello's Graham. These bulls range in age from eleven months to two years. He can also spare a few good cows. The Hechtner herd of Galloways is recognized today as being the best in the West. At the leading fairs and the International the past few years his herd has been winning the lion's share of the ribbons. He just sold a bull and six choice heifers to go to a young breeder at Unionville, Mo., and he recently sold his noted old show and breeding bull Standard Favorite to A. M. Tally, Mead, Neb. He has a new importation now on the road and they will land at Quebec about April 29th, and these will arrive at Chariton about June 6th. There will be eleven bulls and two heifers in this importation, the best that could be bought in Scotland. Among the eleven bulls he is bringing are three grand champions in the leading shows in Scotland and they range in age from yearlings to two year olds. Any man that wants a bull or desires to start a Galloway herd should by all means get in touch with Mr. Hechtner. When writing him kindly mention this paper.

Popular Stock Auctioneer.

On another page of this paper our readers will find the announcement of Col. Fred Reppert, Decatur, Ind., whose reputation as a live stock auctioneer is of the best. Col. Reppert is an enthusiast in his line of business. He is energetic, painstaking and ever on the alert to secure the best returns for his patrons. Naturally such a course brings him a liberal patronage so that oftentimes his date book is filled up for a considerable length of time in advance. Our readers who contemplate making public sales of cattle or hogs should get into correspondence with him at once so that their dates may be secured. Address all inquiries to Col. Fred Reppert, Decatur, Ind.

Hog-Joy Oiler at Ames College.

The matter of freeing hogs from lice and kindred parasites seems to be well solved by the use of the Hog-Joy oiler. These oilers have been installed at several state agricultural experiment stations including the one at Ames, Iowa, and have also been installed on the farm of Dean C. T. Curtis. This oiler is made on a different principle than any other on the market, cannot break or get out of order as it has no small or delicate parts, works perfectly the year around, will use any kind of oil, and is sold on a thirty days free trial. Full particulars regarding this successful adjunct for healthy hogs can be secured by addressing Hog-Joy Co., 301 N. 5th St., Springfield, Ill.

Theobold Offers Crimson Chief.

A junior yearling Duroc Jersey boar of the very choicest breeding and a real show-yard proposition is being offered by J. C. Theobold, Ohiowa, Neb. Mr. Theobold has one of the very best bred herds within the state and this boar has been in use in the herd the past season. He is Crimson Chief and by Ohio Belle's Crimson by C. W. Again. The dam of Ohio Belle's Crimson is the great breeding sow Ohio Belle by Ohio Chief; the dam of Crimson Chief is Chief Lady by Valley Chief, and she is one of the very best daughters of this great sire. Every ancestor of Crimson Chief for four generations is of the very best of the breed and the writer is well pleased with him. It is our opinion that this boar will come near winning good places this fall at the shows; $150 will buy him if prompt action is made. Mention The Homestead when you write.

W. M. Sells' Durocs.

We recently visited W. M. Sells, Indianola, Iowa, and found that he has a nice batch of pigs again this spring. He has a fall litter by Crimson Wonder Again and out of H. A.'s Queen and he intends putting two of her boars and two of the gilts in his August 6th sale. The other boar in this litter he will keep for himself, and this may be one of the last times breeders will ever have to buy the get of this famous old boar and sow. The old sow did not have a spring litter this year so it behooves those who want this breeding to remember this fall sale. Mr. Sells has eight daughters of this noted sow today in his herd and the demand for them is so strong it is hard to hold them. He has sold fifty-two head of boars and sows out of H. A.'s Queen for $5,575 in the past five years and he has three boars and eight sows left. Some of the best herd boars today in the West are sons of this famous old brood sow. Mr. Sells and Swan & Ellis expect to sell one of the toppiest offerings of Durocs in their August sale that will be offered the coming fall.

Shire Horse Sovereignty.

We have before us a little booklet from the pen of John G. Truman, the well-known Shire horse specialist, which is really an important contribution to the horse literature of this country. Mr. Truman is probably as well fitted for the work of preparing such a book as any man living. He takes up in the first place the Shire as a breed, pointing out the natural prepotency which reproduces the massiveness, docility and superb muscling, which are the striking characteristics of the Shire. Divisions of the book treat also on these subjects: contemporary supply and demand, farm demand now dominates prices, later Shire importations, Shire geldings hold market records, present-day market geldings, the soundest breed on earth, the Shire in America, and good reason for Shire prepotency. The book makes interesting reading for farmers who realize the need for securing draft merits in their farm horses. Copies of it may be obtained free by writing to J. G. Truman, president American Shire Association, Bushnell, Ill.

Morris Fowler's Poland Chinas.

The season just past has been one of the most successful of the years that Morris Fowler, Arcadia, Neb., has been in the business of breeding the big Poland Chinas. Mr. Fowler has been very successful at all times, and today maintains one of the very best herds of big stuff in the central part of the state, but the season just passed has been a very good one for Mr. Fowler. The bred sow sale was one of the very best ones of the year; at that time he sold a little over forty sows and they made the nice average of $47 per head, making it the equal and better than many of the sales made by the old timers in the business. Mr. Fowler has at present about eighty spring pigs, nearly all the get of his boars, Tom Sampson, by Thos. A. Stattuck's Sampson, and also some are sired by a son of Lingford's boar, Sampson by Pawnee Lad. These pigs are from a fine of Great Wonder by Long Wonder sows, and a few daughters of Big Tecumseh, and two daughters of Bell Metal Pan a litter brother to the famous Big Tom. This line of breeding should make good, and it is doing it. Choice boars will be offered before very long, in fact a number of farmers' boars, those of fall farrow are for sale right now. When you write be sure to mention The Homestead.

Riverside Short-horn Herd.

The Harrah herd of Short-horn cattle at Newton, Iowa, is the same old herd which has been in existence on the same farm for perhaps twenty-five years. The same excellent strains of Scotch blood predominate and the same care has been used in the selection of breeding animals. As a result the farm can show a large number of bulls that are good enough for anybody and bred as well as any that can be found. Mr. Harrah is offering for sale a number of these bulls and would like to get into correspondence with those that appreciate style, quality and finish coupled with true beef-making merits. Address inquiries to Geo. D. Harrah, Newton, Iowa, or better, make a personal visit to the farm. See advertisement on page 29.

Egg and Poultry Profit.

Whether or not money is made or lost on poultry and eggs depends quite largely upon the good judgment employed by the owner. Quite frequently chickens that are unprofitable for one owner would be very good money makers for another, the difference arising from the manner of treatment. Health, thrift and judicious feeding are the essentials in making money from poultry. It is not necessary to give medicines to obtain these conditions. It is important, however, that good digestion be maintained. One of the best means of keeping the digestion right in poultry is to use daily small doses of Dr. Hess Poultry Pan-a-ce-a. This preparation is advertised on page 9. It is a result of many years of careful observation in poultry raising. Further information concerning it may be obtained by writing to Dr. Hess & Clark, Ashland, Ohio.

Wall & Sons' Herefords in Kansas City Sale.

E. E. Wall & Sons, Leeton, Mo., are sending fifteen head of Hereford bulls to the May 6th sale to be held at Kansas City, Mo., under the management of R. T. Thornton, 1309 E. 15th St., Kansas City, Mo. E. E. Wall & Sons write that these are choicely bred, are about eighteen months of age, and that there are herd headers among them. Others are good strong fellows that should appeal to buyers desiring good stock bulls for steer production on the farm or range. Wall Onward, the sire of some of the bulls in the sale, is a four year old sired by Onward 27th. He has proven a valuable sire. Wall 17th is a two year old sired by Wall Onward; he is a short-legged, thick-fleshed fellow that should make a good sire. King Royal by Beau Mystic 4th is a November yearling with quality and excellent breeding. George, a September yearling by Santa Claus is an extra thick-fleshed, short-legged fellow. The one cow contributed by us is Mattie Columbus by Columbus 27th and sells safe in calf to Wall Columbus 33d. She is a modern Hereford that will please Send now to Mr. Thornton for catalog and note the breeding.

Stanton Buys Sayer Short-horns.

Thos. Stanton, Wheaton, Ill., has just consummated one of the biggest deals that has ever taken place in pure-bred beef cattle circles in this country, having purchased the entire herd of Short-horn cattle belonging to George J. Sayer, McHenry, Ill., numbering around 100 head. Fifty of the top cattle in this collection will be cataloged for a sale at Sittyton Grove Farm, Wheaton, Ill., June 3d, and will include one of the greatest lots of Short-horns ever submitted for public appraisal. Three great bulls, Roan Sultan, White Star and Prince Imperial, will be listed, as well as such females as Mildred of Mapleton, Fair Start 2d, Susan Cumberland, and other remarkable specimens of the breed, both show and breeding material of the strongest sort. This move is in line with Mr. Stanton's work as a Short-horn adherent. There is no proposition too big for him to take hold of, and his enterprise in this matter will give the public an opportunity to place public sale values upon a lot of cattle that under any other conditions could not be secured at any price. Applications for catalogs for this big event should be filed at once with Thos. Stanton, Wheaton, Ill. Kindly mention The Homestead when you write.

Big Sampson for Sale.

The writer is of the opinion that H. B. Francisco, Hastings, Neb., is offering one of the herd boar bargains of the year when he offers Big Sampson 62026. This is one of the really big boars of the breed, will easily mature into a 1,000-pound boar and is a sire of the very highest class stuff. He is sired by Sampson 53261 by Jumbo Jr., by Wintermute's old boar Jumbo. He is out of Long Beach by Great Hadley and Long Beach is today one of the very best sows of the Thos. A. Shattuck herd. She is out of Blue Bell the sow that raised the highest priced litter sold at auction in Nebraska in 1910 and Long Beach is one of this litter. Big Sampson is immune, having gone through the cholera last fall and the fact that Mr. Francisco lost nearly his entire sow herd last fall is the reason that he is for sale at this time. Some very choice fall gilts by Big Sampson were saved and a few of the old sows were brought through. These big sows are now bred to Big Sampson for early fall litters and the fact that everything but a very few head will be sired by him is the only reason that he is offered for sale. The price of $400 does not convey a right idea of the value of this boar, for he is one of the real good ones. A few sows will be taken in part payment. The writer recommends this boar and any correspondence addressed the writer concerning him will receive immediate attention. He is a bargain seldom met with. Kindly notice advertisement on page 29 and

when writing Mr. Francisco mention this paper.

Ehlers Offers Short-horn Bulls.

F. H. Ehlers, Tama, Iowa is advertising for sale a September yearling Scotch bull sired by Rob Roy and out of Lady Anniex 16th by Imp. Red Knight and a November yearling Missie bull sired by Scotch Sultan by Whitehall Sultan. Scotch Sultan sold for $1,000 to head the herd at the University of Illinois. These bulls are herd headers and are priced worth the money. Mr. Ehlers would also sell some good Scotch cows and heifers worth the money. He sold Lancaster Sultan to George Knoop, Clutier, Iowa. See page 29 and write for prices mentioning The Homestead.

C. W. Phillips Offers Fall Boars.

Big-type Poland China boars of August and September farrow can be purchased from C. W. Phillips, New Sharon, Iowa. Mr. Phillips has some extra good boars left sired by Long King Superior and Big Bone 3d. Long King Superior is one of the good sons of Long King and the boars Mr. Phillips is offering are long, heavy-boned fellows and anyone who will send Mr. Phillips a check for $25 will receive an extra good boar. Mr. Phillips guarantees satisfaction in every respect or refunds your money, and his guarantee is as good as a bond. See page 29 and write him mentioning The Homestead.

Hanenkamp's & Fowlie's Duroc Herds.

A couple of enterprising stockmen and men that are getting some good Durocs gathered together are A. H. Hanenkamp and E. A. Fowlie, Hickman, Neb. These gentlemen have been buying some of the choice stuff offered in Nebraska and have been able to make them a bit better each year. They will hold a sale in Hickman next winter, and will have a nice lot of boars for sale at private treaty. The writer wishes to say that these gentlemen have a lot of stuff that in point of breeding or individual merit should appeal to the readers of The Homestead, and we fully believe that they will offer good stock at prices anyone can afford to pay. We will have more to say of this stock a little later. Kindly keep the herds in mind, and when in the market, give them a trial.

Choice Poland China Bred Gilts.

Beall & Jackson, Roca, Neb., are offering right now a choice lot of great big fall gilts. They are the sort of Poland Chinas that everyone is in search of, and they are sure the real big ones. These gilts are sired by Nebraska Wonder by A Wonder and also by Chief Price Again. These gilts will be sold open, or will be bred if ordered soon. No gilts will be bred except those for which orders are booked, and they will be bred to your choice of our present herd boars. The Chief Price Again gilts may be bred to Nebraska Wonder or a choice son of Nebraska Wonder and the Nebraska Wonder gilts may be bred to our young herd boar, Sampson Jr., by Shattuck's famous boar, Sampson. Kindly notice the advertisement on another page and when writing be sure to mention The Homestead.

Percheron Stallions for Sale.

Maasdam & Wheeler, Fairfield, Iowa, have a few high-class imported and home-bred Percheron stallions for sale. Among them are some outstanding good ones that will be sold worth the money. They are blacks and grays that will develop into stallions weighing from 2,000 to 2,300 pounds. E. G. Wheeler, the junior member of the firm, will leave for France about May 25th to bring over seventy-five stallions and mares of the best he can buy. He will also visit the leading Short-horn herds of Great Britain in quest of about thirty good Scotch females and a good bull. This firm have a section of land at Sibley, Iowa, elegantly situated for the live stock business on which they keep their Short-horns and a number of Percheron mares. At the present time they have on the Sibley farm over 100 Short-horns headed by Scotch Avon, a grandson of Imp. Choice Goods, that was good enough to win at the Iowa State Fair, 1912. See ther Percheron advertisement on page 32 and write them mentioning The Homestead.

The Rexall Herd Durocs.

A herd of Durocs that has come into the limelight the past season and which promises to become much more popular this year is the herd owned by Danford & Dewhurst, Ord, Neb. It was from this herd that the grand champion, Critic B., came a year ago. His sire, the great breeding boar, Dusty Critic 2d, is still in service in this herd and will probably make his appearance at the fair this fall. He has been shown a little and without defeat so far. He has been much used the past season and is not in high condition, but if he can be gotten into the condition that he should have, he will surely be a pretty hard one to beat this fall. Some extra choice pigs are on the farm and many are by him and the greater part of the remainder are by Cedar Grove Clif by Lincoln Chief by Belle's Chief. Cedar Grove Clif was the first prize under six months pig at the Kansas State Fair last year, and Lincoln Chief was the first prize under six months pig at Lincoln the fall of 1911. Lincoln Chief was bred by H. H. Koenig, De Witt, and sold to Mr. Widle, who bred Cedar Grove Clif and showed him last fall, winning all along the line with him. Readers of The Homestead should keep the herd in mind, and when in search of some high-class stuff, both in point of breeding and individual merit, write the owners of this herd for what you want. They will be at the Nebraska State Fair, and will bring out a lot of nice stuff, among which are a senior boar and a senior gilt that will be hard to beat. These are September pigs and will weigh some better than 300. They are going to be the real big ones and they are smooth and nice. Should you write for prices on anything kindly mention The Homestead when doing so and address all correspondence to B. F. Danford, Ord, Neb.

Importation of Hereford Cattle.

The first importation of Hereford cattle that has been made to this country in over a decade will leave England in a few days consigned to George Leigh and William George, Aurora, Ill. The importation will number fifty head, and will consist entirely of animals that have been carefully selected from the best herds of England regardless of cost. Included will be half a dozen top bulls, among them three of the best to be found in England, both as regards breeding and show-yard merit, a number of strong breeding cows with calves at foot and a string of strong two-year-old heifers. It is the intention of Mr. Leigh and Mr. George to submit this lot of cattle for public approval at a sale next fall. Later on our readers will be given full particulars regarding this importation.

Ninety Durocs at Auction.

On Wednesday, May 21st, E. S. Mayes, Jr., Springfield, Ky., again invites Duroc breeders of the world to visit him and buy ninety head of select Durocs. Mr. Mayes became noted as the owner of the greatest of all sires, Defender, and this noted hog was sold by him to McKee Bros, for over $5,000. But while he was at Mr. Mayes' farm he did much for the improvement of this great herd for Mr. Mayes bought the very best bred and best individual animals to mate to him. Some of this offspring are included in this great Mayday sale, others are out of dams by this noted sire, while many of the original sows purchased at long prices to mate to him are included in the offering. These are sired by such noted boars as Superba, The Professor, John's Ohio Chief, Orion Chief, Prince of Cols., Hi King and others, a truly great lot of individual sows and all but one of the sires mentioned are dead but one (Superba). What an excellent chance to get some of the queens that were sired by these great boars while in life. Probably not another chance like it will again be offered. The forty fall gilts and twenty-five fall males by Defender, Superba, John's Ohio Chief, Crimson Col., Cherry Tennessee, Premier Col., Professor Boy and others is another great opportunity to get a choice male pig or open gilt for your coming sales. Don't overlook the yearling open sows. These are a lot of attractions and the catalog tells all about this great offering. We ask for all to attend who can, but you who can't come should send bids to H. E. Browning, field representative of The Homestead. Cols. H. L. Igleheart and C. C. Wheeler, auctioneers. Look up the advertisement on page 28 of this issue and write for catalog to E. S. Mayes, Jr., Springfield, Ky.

Six Yearling Duroc Boars For Sale.

I. J. Wilson, West Branch, Iowa, is offering six good yearling Duroc Jersey boars for sale as well bred as can be found anywhere. These boars will weigh over 300 pounds and will be priced worth the money. Five of them are sired by Wilson's Defender by Defender and two of them are out of a Model Chief dam, two out of a Wonder Boy dam and one out of a Victor Wonder dam. Mr. Wilson has used one of the boars out of the Model Chief sow and his pigs are showing up in good shape. One of the boars out of the Wonder Boy sow won first at the Tipton and West Liberty fairs last fall. There is also one yearling boar by Crimson Wonder I Am out of a Proud Col. sow. Mr. Wilson used this boar on some of his best sows last fall and the pigs have quality and good size. If you want a good yearling Duroc boar write Mr. Wilson mentioning The Homestead. See page 29.

Express Prepaid on O. I. C. and Chester White Pigs.

W. Doolittle, Woodland, Mo., who has bred O. I. C. and Chester White hogs for thirteen years past has from year to year improved his herd until he now has one of the best to be found. The great Frost boars, White Oak and Jackson Chief, were the sires of much of Mr. Doolittle's foundation stock. Later Mr. Doolittle purchased herd boars from Mr. Reece's prize herd and has by proper matings developed a superior type of white hog. He has been decidedly careful in making selections, picking only the very choicest individuals and is careful to weed out all objectionable and inferior stock. Mr. Doolittle has sent breeding stock over a wide territory and the many pleased customers furnish the best evidence of his hogs being the kind that make good. Just now Mr. Doolittle offers spring pigs of either sex to be sent express prepaid at weaning time. This affords buyers an exceptional opportunity to get desirable stock at moderate expense. Note page 29 for Mr. Doolittle's advertisement and if interested order early and get some of these choice white pigs.

Cures Lump Jaw.

Mack's Lump Jaw Cure, a standard remedy which has been advertised in this paper for twenty-three years, is effective in curing Lump Jaw. It is sold by druggists at the rate of $2.00 per bottle. Mack's Colic Cure for horses and for bloat in cattle should be kept on hand at all times. It is sold at the rate of $1.25 per bottle.

It Sold 73 Hogs at Private Sale

HARRY HURLESS is a young breeder of Chester White hogs at Ogden, Iowa. He advertised them in The Iowa Homestead, using one-half inch of space twenty-five times. Did it pay? Read what he says: "I want to thank The Homestead for the good it has done me the past fall and winter. I sold seventy-three Chester White hogs through the advertisement, and could have sold forty more, but did not have them. I will be with you next fall and winter." The big circulation of The Homestead brings returns where others fail. Live stock raisers should learn our rates. Address

HOMESTEAD COMPANY DES MOINES, IOWA.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, April 26th.—Three consecutive weeks of liquidation of cattle has deprived the beef steer market of its capacity to absorb and created a condition of congestion that borders closely on demoralization. One has to look far in his search for real common-sense reasons as to why cattle that need weeks or months more feed are being shunted to the shambles at this juncture in such reckless fashion as they have been. Several reasons are advanced and all of them have doubtless had their influence in keeping the liquidating microbe busy although the chief one apparently that of alarm in feeders' ranks at the prospect of free meat should not, in the opinion of trade leaders prompt any ordering of cars, for even if meats go on the free list—which they probably will—the crop of beef now nearing the finishing stage could not possibly be affected and it is extremely doubtful if it would adversely affect prices at a subsequent period. Another factor that is at present aggravating matters is the urging weak cattle holders are receiving from country bankers to ship. Still another is a desire on the part of many cattle feeders to be rid of cattle that cannot profitably be turned out on grass. Were the market not on a high basis and therefore less susceptible to adverse surrounding conditions, feeders' alarm would probably be less acute, but when the stock has been laid in as feeders at a high cost, their holders are not inclined to take long chances for experience has taught many that a dollar break, when cattle and meats are high, can sometimes come out of a clear sky.

It is not improbable that many cattle were marketed this week by shippers who figured that activity with oats seeding would keep the other fellow away, and that the midweek run was swelled beyond all expectancy because of the promising start the market made on Monday, and that these conditions, perhaps to a greater extent than those noted in the paragraph above, were chiefly responsible for the overgrown supplies. Be that as it may, the fact remains that there has been a very burdensome supply here and elsewhere and that one prescription can be written that will suit the case in the present emergency. Keep cattle that are not pressing on the market back until conditions clarify. That kind will have no place on the market during the coming week and if receipts are limited to finished bullocks a tonic influence will be in evidence.

BIG SUPPLIES OF BEEF.

Six western markets have received approximately 360,000 cattle during the last three weeks and a supply heavier freighted with beef never showed up within a corresponding period. Both here and at Missouri river markets it has been a run of steers, many of them plucked too soon, but still of beef quality. Killers have accumulated a considerable tonnage of beef and cattle are too high, say dressed beef men to warrant killers doing other than a hand-to-mouth business so that whenever a surplus over current trade requirements shows up declines are certain to follow.

PRICES SHARPLY LOWER.

In an off-hand way, beef steer prices are quoted a flat twenty-five cents lower than last Monday. This depreciation embraces the bulk of the steers, but the decline has not been exactly horizontal. Many fair to good 1,050 to 1,250-pound killers are selling at week-end at $7.60 to $8.25 that show thirty-five to forty-cent declines, a large share of the very good handy and heavy steers selling around $8.35 to $8.65 are the biggest kind of a quarter lower, while the few loads of steers that are regarded as specialties and now are quotable from $8.85 to $9.10 are not to exceed fifteen cents lower. That only light receipts can be digested next week, if further declines are to be averted, is certain.

THIN STOCKERS NOT AFFECTED.

Country demand for stock cattle has not, as yet, been damaged by the hard slump in fat steers, but fleshy feeders weighing from 800 pounds up have sympathized with the fat steer market and close dull at a ten to fifteen-cent decline from a week ago. Some of the best selected feeders look about steady on paper, but country buyers have been getting a better and fleshier class of cattle in the higher price registers than they had access to last week. Demand is strongly partial to cattle with some quality of grazing class and thin 800 to 950-pound steers as well as the best classes of steer yearlings are selling for as much money per pound as fleshy heavy feeders of corresponding breeding quality and salable much more easily. Some of the best stock steer yearlings show strong to ten cents higher than last week. At the weekend a few of the highest class 700 to 1,100-pound steers are going to the country as high as $8.00 to $8.25, but $7.60 to $7.90 is taking very good to choice kinds of about all weights and $7.15 to $7.40 a decent to medium class of stockers, while the common and very plain stockers are clearing slowly at $6.50 to $7.00.

COW VALUES FAIRLY STABLE.

Having been relatively very scarce she stock has been on a more stable footing than steers, but further decline in the major market will affect female cattle adversely. Buyers are all set to trim down cow and heifer values sharply, and are only awaiting an opportunity that a good run of such stock, either from corn-belt territory or from the Southwest would give them to apply the ax. Prices for the rank and file of the butcher she stock are closing only about ten to fifteen cents lower than a week ago at most and buyers assert that 90 per cent of their cow and heifer purchases this week has cost them as much on the hooks as last week. A few loads of fancy yearling heifers sold during the first half of the week as high as $8.75 to $9.00, but they, along with the ripe heavy $7.75 to $8.00 cows are distinctly in the specialty class. Most of the right good to choice fat heifers are now selling at $7.10 to $8.25 and a similar class of butcher cows $6.15 to $7.25 and most sellers quote all of such goods ten to fifteen cents lower than Monday or last week's closing. The cheaper grades have held steady, good canners selling up to $4.50 and a meaty sort of cutter cows $4.85 to $5.10. Bulls are higher than at any preceding time this season, despite the adversities that have overtaken the beef cattle market. A few prime heavy bulls have sold up to $7.75 to $7.85, ripe yearling to $8.00 and heavy, meaty Holstein bologna bulls up to $7.10 this week, while $7.15 to $7.50 has taken the bulk of the butcher bulls and $6.60 to $7.00 a large slice of the medium to choice bolognas. A downward revision of bull prices, as well as of cows and heifer values cannot be escaped unless the steer market recovers. Although dressed veal markets do not appear to warrant it, veal calf trade is on a $1.00 higher basis than a week ago and $1.00 to $1.15 higher than Tuesday of this week. Receipts have decreased somewhat this week, but the week-end bulge that made $9.15 to $9.25 calves out of such vealers as had to take $8.00 to $8.10 here last Tuesday and $8.25 a week ago looks very frothy. Heavy calves are scarce as ever and selling stronger than last week, mostly from $6.00 to $7.00, with choice stock steer calves quotable up to $7.50 to $7.85. Quotations:

STEERS.	
Prime steers, 1,300-1,700	$8.85@9.10
Choice steers, 1,250-1,500	8.65@8.80
Choice steers, 1,100-1,250	8.65@8.80
Good to prime yearlings	8.50@9.00
Medium to good yearlings	8.00@8.50
Common to fair yearlings	7.40@8.00
Good steers, 1,100-1,400	8.3[illegible]@8.50
Good steers, 900-1,200	8.00@8.50
Fair steers, 900-1,200	7.60@8.00
Medium steers, 850-950	7.40@7.60
Inferior steers, 850-950	7.00@7.35
Common steers, 800-850	6.75@7.00
FEEDERS.	
Selected, 900-1,150	7.85@8.25
Fair to good	7.50@7.75
Common to fair	7.00@7.40
Feeding heifers, com. to good	6.25@6.75
STOCKERS.	
Selected, 500-800	7.85@8.25
Fair to good	7.35@7.75
Common to fair	6.50@7.35
Stock heifers, com. to good	5.85@6.50
BEEF COWS.	
Choice to prime fed cows	7.00@8.00
Good to choice cows	6.25@7.00
Fair to good cows	5.65@6.25
Com. to fair butcher cows	5.10@5.65
CANNERS AND CUTTERS.	
Good to ch. heavy cutters	4.85@5.10
Fair to good light cutters	4.60@4.80
Fair to good canners	4.25@4.50
Poor to fair canners	3.90@4.25
Old, thin, weak shells	3.25@3.85
HEIFERS.	
Choice to fancy heifers	7.65@9.00
Good to choice heifers	7.00@7.65
Fair to good heifers	6.60@7.00
Common to fair heifers	5.50@6.60
BULLS.	
Good to choice bolognas	6.75@7.00
Light and medium bolognas	6.35@6.70
Canner and poor light	5.25@6.10
Fair to good butchers	7.10@7.25
Choice to fancy beef	7.35@7.85
VEAL CALVES.	
Good to choice vealers	9.00@9.25

Fair to good light vealers... 8.50@9.00
Good to choice stock calves.. 7.25@7.85
Inferior to fair hvy. calves.. 4.75@6.00
Good to ch. heavy calves.... 6.25@7.00

MOST HOGS BELOW $9.00.

An unexpectedly liberal run of hogs at the week's opening, sharp downward breaks in the provision market and a continued narrowing of eastern shipping demand, started hog values on the down grade here last Monday, and the market continued in slumpy condition throughout the first half of the week, showing a decline in three da-s of forty cents per hundredweight. The slump caught many shippers here with hogs that could not be sold for their cost price in the country, and had the customary effect of curtailing loading of swine. Receipts the last half of the week have been light and Friday's market showed a fifteen-cent higher trading basis than at midweek, leaving prices about twenty-five cents lower than a week ago. Eleven markets received 362,000 hogs during the first five days this week, or 30,000 less than a week ago and 63,000 less than a year ago. The year's receipts of hogs to date at eleven markets stands at 7,987,000 against 9,247,000 like period last year. Chicago has received 2,471,600 thus far this year, a decrease of 323,800 from a year ago. Friday's trade closed in healthy condition on the following basis of prices:

Bulk of sales	$8.75@8.95
Mixed, 215 to 250 lbs.	8.70@8.85
mixed, 170 to 200 lbs.	8.80@8.90
Medium weights	8.80@8.85
Light butchers	8.90@9.00
Heavy butchers	8.80@8.90
Light shipping	8.95@9.05
Heavy shipping	8.80@8.90
Heavy packing	8.55@8.75
Rough heavy packing	8.35@8.55
Throwout packing sows	8.15@8.45
Fair to choice light	8.75@8.95
Light-light, 125 to 165 lbs.	8.75@8.90
Pigs, good to fancy	7.65@9.00
Pigs, inferior to fair	6.70@7.50
Boars, poor to good	3.75@4.75
Stags, subject to dockage	8.75@9.25
Government throwouts	4.25@6.25
Government pigs	1.50@3.50

LIVE MUTTONS SELL HIGHER.

Advances of fifteen to twenty-five cents on matured muttons and of largely fifteen cents on fat lambs have been recorded this week, the gain being attributable to moderate decrease in the aggregate marketing, both at western and eastern markets and to anticipation of better acting dressed markets, though the latter expectancy has failed to materialize. At weekend the tone of the trade is slow at this advance and much uncertainty exists as to what may happen next week. However, fewer choice lambs are expected to materialize than arrived this week, as much of the Colorado stock now unloading at nearby feeding stations will be shorn before being sent into the shambles and the supply of choice goods is not expected to prove burdensome. Prospects for a high level May market are bright, as judged from prospective supply figures, but adverse tariff legislation and tightening money might upset the market at this juncture, so that most anything is likely to happen. Only about 150,000 head of lambs are reported back in Colorado and western Nebraska feeders' hands. Feeders in those sections had about 1,425,000 head in their feed lots on January 1st and every shipment has made money, feeders confessing this to have been the most profitable feeding season in their history. Idaho's early lamb crop has been seriously bumped by unseasonable weather and will be later than usual reaching market. The Tennessee crop is two weeks late and a May gap in supply is predicted. The week is closing on the following basis of prices:

WOOLED STOCK.

Lambs, good to prime	$8.65@8.90
Lambs, fair to good	8.25@8.65
Lambs, common to fair	7.75@8.25
Lambs, culls	6.25@7.75
Lambs, feeders and shearers	6 00@8.00
Yearlings, fair to choice	7.15@7.90
Wethers, good to choice	6.85@7.35
Wethers, plain to good	6.25@6.85
Ewes, fair to best	6.00@7.00
Ewes, culls	4.25@5.25
Bucks	5.25@6.25

SHORN STOCK.

Lambs, good to choice	7.65@7.90
Lambs, fair to good	7.35@7.65
Wethers, fair to choice	6.25@6.85
Yearlings, fair to choice	6.50@7.25
Ewes, fair to choice	6.00@6.50
Bucks, fair to choice	4.50@5.50

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending April 27, 1913:

The past week was, as a whole, favorable for farm work, and over the larger part of the state, rapid progress was made in sowing small grain and plowing for corn. Work was, however, retarded in the northwestern counties by heavy rains on the 23d and 24th, which were followed in all sections by light to heavy frosts on the last four mornings of the week.

About 90 per cent of the seeding has been finished, and the remainder will be completed within the next few days. In the northwestern counties, where the rainfall was the heaviest and field work serious retarded, considerable of the acreage intended for oats will be reserved for corn. The early sown grain is up and shows a good stand. Grass is growing nicely, and in some localities stock is in pasture. Fruit trees are still in fine condition. Plum trees are in blossom in the central districts and all fruit buds are beginning to swell in northern counties. The spring pig crop is reported to be short in many localities and especially where cholera was prevalent last year.

The indications at the close of the week are favorable for rising temperature, and with warm weather corn planting will begin during the coming week. Geo. M. Chappel, Sec. Dir.

A GOOD TYPE OF HOG HOUSE.

(Continued from page 5.)

grain and straw all at hand the job of caring for the animals is a pleasure and consumes less than one-third of the time formerly taken up to perform the same task. No. 7 is the present driveway which is used during bad weather as a feeding place for the hogs.

On the whole this is the best house that we have ever had the privilege to visit and we can easily understand why it is that Mr. Long has the many fine animals we saw on his place. He has realized that only the best is worth having at all and the results obtained have more than justified his opinion.

A curious thing to note is that those same neighbors that were so loud in their belief that he had made a terrible mistake in erecting such a house are beginning "to figure." Yet some of them go on in the same old rut, even when they know that Mr. Long has made a grand success and is pulling away from them with rapid strides. Did you ever notice which of the two types had the barns full to running over, the automobile, fine animals and the other things counted when measuring success?

FOR BOYS AND GIRLS TO READ.

A gold medal to the schoolboy or girl between the ages of ten and fifteen who writes the best composition, not to exceed 800 words, on the repair and maintenance of earth roads, is to be awarded by Logan Waller Page, Director, office of public roads United States Department of Agriculture, Washington, D. C. All compositions must be submitted to Mr. Page before May 15, 1913, and the medal will be awarded as soon thereafter as the compositions can be graded. The composition may be based on knowledge gained from books or other sources, but no quotations should be made.

After many years' experience in dealing with the public road situation of the country, it is Mr. Page's belief that ignorance on the subject of repair and maintenance of roads is as much the cause of their bad condition as any other one factor. It is expected that the competition will bring about a better understanding of the subject of repair and maintenance in the rural districts.

Many children living in the rural districts have experienced the disadvantages of roads made impassable through a lack of proper maintenance and it is expected that their interest in the competition will stimulate greater interest among the parents. Bad roads have prevented many children from obtaining a proper education and have even prevented doctors from reaching the side of rural patients in time to save their lives.

Any child between the ages mentioned, attending a country school, may compete. Only one side of the paper must be written on; each page should be numbered; the name, age, and address of the writer, and the name and location of the school which he or she is attending must be plainly written at the top of the first page. The announcement of the competition has been sent to the superintendents of the rural district. No further information can be obtained from the office of public roads. This announcement should be plain to everyone, and all children will thus start on a basis of equality.

WHAT MINCE-MEAT IS.

For two years the government and the Kansas pure food departments have been trying to determine what constitutes mince-meat for commercial purposes. The Kansas Board of Health beat the government and decided what mince-meat really was. Here is the official definition:

Mince-meat is a mixture of cooked comminuted meats with chopped suet, apples and other fruit, salt and spices with sugar, sirup or molasses, with or without vinegar, fresh, concentrated or fermented fruit juices or spirituous liquors. The meat present is in sufficient quantities so that the total nitrogen of the mince-meat is not less than 50 per cent.

Condensed mince-meat, when mixed with liquid as directed on the label conforms in all respects to this standard except that not more than 2 per cent of flour may be used as a binder. If glucose be used in any kind of mince-meat its presence must be declared on the label using type not smaller than eight point capitals.

Under the ruling mince-meat must contain real meat, and not imitations. Every commercial manufacturer has a mince-meat recipe of his own and all wanted their own adopted, but the board made a standard of its own, to which all must conform.

ARTIFICIAL AND NATURAL INCUBATION AND BROODING.

Have everything ready beforehand and start your hatching operations early in the year.

A well-ventilated cellar is the best place to operate the incubator.

The machine should be operated according to the manufacturer's directions.

See that the incubator is running steadily at the desired temperature before filling it with eggs. Do not add eggs to a machine during incubation.

Turn the eggs twice daily after the second and through the eighteenth day. Cool the eggs once daily, according to the weather, from the seventh through the eighteenth day.

Turn the eggs before caring for the lamp.

Attend to the machine carefully at regular hours.

Keep the lamp and wick clean.

Test the eggs on the seventh and fourteenth days.

Do not open the machine after the eighteenth day until the chickens are hatched.

Eggs saved for hatching purposes should not be subjected to high or low temperatures.

In cold weather place from ten to thirteen eggs under the hen; in warm weather from thirteen to fifteen.

Always test the hen on china or nest eggs before setting.

Given proper care and attention, the

90 HEAD OF SELECT

DUROCS

AT

PUBLIC AUCTION

SPRINGFIELD, KY., WED., MAY 21, '13

The Property of E. S. Mayes, Jr., at the former home of Defender.

Consisting of 40 head of Fall Gilts and 25 Fall Boars

SIRED by Defender, Superba, John's Ohio Chief, Crimson Col., Cherry Tennessee, Premier Col. S and Professor Boy. They are out of dams sired by Defender, John's Ohio Chief, The Professor, Irwin Chief, Prince of Cols., Hi King and other noted Sires.

Several head of excellent yearling sows are offered. (Also aged sows by John's Ohio Chief, Orion Chief, Tiffy Col., and others). These are most excellent sows and are added as attractions. **All Sows Sold Open.** 20 spring pigs out of Orion Chief, John's Ohio Chief, and Tiffy Col. dams sired by Cherry Tennessee, Superior Boy and a son of Duke of Cols. This is **an excellent chance to add some attractions to your own herd, to breed to your own boars. "Everything Immune."** Bids should be sent to H. E. Browning, representing The Homestead. Cols. H. L. Igleheart and A. C. Wheeler aucts.

For catalog address

E. S. Mayes, Jr., - Springfield, Kentucky.

May-22, 1913

Waukesha County Guernseys make good. They are bred for production and as represented.

A GREAT SALE OF GUERNSEYS

Eighty high class registered young Guernseys will be sold in our fourth annual consignment sale. Write for catalog to-day, mentioning this paper. Frank E. Fox, Secretary, Waukesha, Wis.

Waukesha, Wisconsin

hen is the most valuable incubator for the farmer.

Use insect powder freely to exterminate lice.

If several hens are set in one room, it is desirable to confine them in good nests.

Straw and hay make good nesting material.

Broody hens should be moved to the permanent sitting nest at night.

Whole corn is a good feed for sitting hens. Water, grit, and dust baths should also be provided.

All eggs should be tested by the seventh day, which often makes it possible to reset some of the hens.

Toe-mark the chicks as soon as they are hatched. This enables one to tell their ages later.

Powder the chicks occasionally during the first eight weeks.

Start the brooder a day or two before putting in the chicks to see that the heating apparatus is working properly.

Brooder lamps should be cleaned every day.

A record should be kept of each hatch, showing the date set, number and kind of eggs, number tested out, and the chickens hatched.

Chicks should not be fed until they are thirty-six hours old.

In cool weather ten to thirteen chicks are sufficient for one hen, while in warmer weather fifteen to twenty can be cared for successfully.

Never mix chicks of different ages.

The coop for hen and chicks should be well ventilated, easy to clean, and of sufficient proportions to insure comfort.

The early hatched pullet is the one that begins to lay early in the fall, when eggs are high in price.—(U. S. Bulletin).

THE STANDARD METHOD FOR PRESERVING EGGS.

To the Editor of The Homestead:

Every poultryman and every farmer's wife has a favorite method for keeping eggs fresh, but when subjected to the severest tests only about two methods have proven reliable, and of these two the one which has given most satisfactory results is preserving in a solution of water glass. This is the method used almost exclusively by European poultrymen and dealers.

In all cases of egg preservation, by whatever method, success depends upon the condition of the eggs when they go into preservation. A stale egg cannot by any possibility be preserved in the spring so as to come out in the autumn a fresh egg. But strictly fresh eggs properly preserved in the spring are considered by many quite the equal of freshly laid eggs when used the following autumn and winter. An egg laid during the cool spring weather is better than the egg laid in July or August.

The eggs should be perfectly clean and unwashed. They should have strong, perfect shells. They should, when possible, be put down the day laid. Only the honest, conscientious farmer and poultryman who looks after his hens and the egg supply daily can insure these requirements, for they know absolutely that the eggs they put in this preserving solution are fresh, and therefore they have an advantage over the packing house people, cold storage companies and wholesale egg dealers in the cities.

Silicate of sodium or potassium, known as water glass, is a soluble alkaline substance that may be had in either liquid or crystalline form. The former, which is of sirup-like consistency, is considered the better for egg preserving. It is inexpensive, the cost averaging about one cent per dozen. A pound costs from ten to fifteen cents, and will preserve about fifteen dozen eggs. Many different proportions of water glass in solution have been tried, but there is a pretty general agreement that 10 per cent strength is the best; that is, one pint of the liquid to nine pints of water.

Use any large vessel other than metal, but it must be one which will not leak or permit evaporation, and which can be tightly closed. A large stone crock or a wooden keg with tight lid is good. The vessel should be scalded and sunned before using. The least scent or taint about the vessel used will affect the eggs. The eggs should be packed each day as gathered, small end down, and as each layer is completed it should be covered with water glass solution, and so on till the vessel is full, when three inches of the solution should cover the top layer. Keep a tight lid on the vessel, and set it in a cool, dark place, care being taken not to disturb them, for this will break the crust that forms over the top. If the water evaporates or dries away, boiling water must be added, or a sediment of the water glass will settle to the bottom and cement the lower eggs together.

When the eggs are required for use or for sale take out the quantity desired, and a new crust will form over the remainder. The eggs should be well washed in cold water before they are sent to market or cooked at home. Those taken out for home consumption should be kept in a cool place till used. If boiled in the shell the shell must be punctured with a needle to prevent bursting.

J. H. Motes.

GOOD PRICES FOR HORSES.

Those who believe that motor cars are driving the horses out of the country will be interested in the report of a sale in Chicago of a string of horses from Kansas. The report shows that the Kansas horses, disposed of mostly at retail, brought high prices. One pair of big grays went to a New York firm for $775. A pair of browns, a mixture of Shire and Percheron blood, sold for $685. The lowest price obtained for any of the horses sold by one breeder was $312.50. Pairs of good farm mares went for $440 and $450. Even the light driving sorts were in better favor, and anything desirable for city or town use was in instant demand. Feeders, by which is meant big horses in only feeder condition, went as high as $600 a pair, but not to be fed out and returned to market.

In the United States the average number of acres of land cultivated by each person engaged in farming is forty. In Germany it is under ten.

HIGH PRICED CATTLE

CAN be saved by using Mack's Lump Jaw Cure, the standard remedy for 23 years. Easy to apply, sure to cure or your money back. $2.00 at druggists' or delivered. Try Mack's Colic Cure for horses and bloat in cattle. You will keep it on hand if you do. $1.25 at druggists' or delivered. Free book.
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TOO LATE TO CLASSIFY.

Stallions and Bulls

THE Iowa State College is offering for sale one Clydesdale stallion coming two years old sired by Kuroki (12629) 13214, dam Maggie Reffner 13341 by Reffner (12301) 12116; 2d dam Princess Maggie 10880 bred by Colonel Holloway. Also several good, young Short-horn and Angus bulls. Address Division of Agriculture, Iowa State College, Ames, Iowa.

YEARLING DUROC BOARS

I HAVE six yearling boars, one by Crimson Wonder I Am out of a Proud Colonel sow, and five by Wilson's Defender (by Defender) and out of sows by Model Chief, Wonder Boy and Victor Wonder. These boars weigh over 300 pounds and are good. Prices reasonable. Write me mentioning Homestead.
I. J. WILSON, WEST BRANCH, IA.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan, Scotch bred 3 yr. olds, and calves 3 to 6 mos.; choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

Valley View Hampshires Nothing left at present but fall pigs. Address **Fred Wheeler, St. Charles Ia.**

TWO POLLED DURHAM Herd bulls, 18 months, and 10 females, tested, registered and right. F. Bunker, Kilbourn, Wis.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

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Veterinary Editor The Homestead.
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FALL BOARS BY LONG KING'S SUPERIOR

AND Big Bone III. I have 4 fall Poland China boars by Big Bone III out of a Long King sow and a number by **Long King's Superior.** Send me a check for **$25.00** and I will send you a boar worth the money. If upon his arrival you are not satisfied send him back and get your money. Send me your order, mentioning The Homestead.
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WE ARE NOW BOOKING ORDERS FOR BRED SOWS

WE have a number of extra choice fall gilts, great big ones, that we will breed for fall litters for those that order now. These gilts are by Nebraska Wonder, by A Wonder, and Chief Price Again. Will breed them to Sampson Junior, a selected son of Nebraska Wonder, or to Nebraska Wonder. We price these gilts low for the class of stock, and if you wish some of this sort order at once. Be sure to mention The Homestead when you write. Address
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BIG SAMPSON 62026 FOR SALE

POSITIVELY the greatest value of the year in a Poland China is **Big Sampson 62026.** I have but little further use for him and the low price of $400 will buy him. One of the few really extra big boars of the country. He is two years old and immune. Could use a few sows in part payment. If you really want a big boar and a good one address
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16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
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I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale as I can spare him.** He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
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I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
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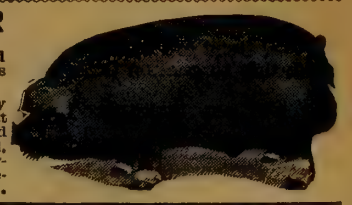

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POLAND CHINA fall pigs by Orange Boy by Big Orange, thrifty pigs, both sexes, 125 to 150 lbs., $20 each while they last. **M. G. Arnold & Son, Strawberry Point, Iowa.**

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AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.
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300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
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SIRED by Defender Junior, he by Defender, will weigh about 200 lbs.; also have some fall gilts bred August farrow will sell cheap if taken at once.
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OAKVIEW DUROCS. Bred gilts and sows, March and April farrow. Prices right. For 30 days only, fall pigs, either sex, $12.50 to $15 each. Write us and mention Homestead. A. Nevins & Son, Modesto, Ill.

DUROC JERSEY FALL BOARS

October boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears. A good pig at a fair price. J. C. Porter, Ogden, Iowa.

HORSES.

TRUMANS' CHAMPION STUD

1878 As usual we have made in 1913 THREE IMPORTATIONS OF 1913 SHIRE and PERCHERON STALLIONS and MARES and have now on hand

78 IMPORTED DRAFT STALLIONS 78

Including 8 noted Wrydelands colts rising 3; 25 Imported GRAY and BLACK PERCHERON STALLIONS, the BEST we could buy in France; 40 IMPORTED SHIRE STALLIONS 3 to 6 years old, including the champions, first, second and third prize winners at International, Illinois, Iowa, Minnesota and Wisconsin State Fairs of 1912; the GOLD MEDAL INTERNATIONAL WINNING ROAN BELGIAN stallion 3 years old, we think the best Belgian colt in America; a few Hackney Stallions and 35 Imported Shire and Percheron Mares.

NO CULLS, ALL FRESH, HIGH-CLASS IMPORTED HORSES

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

DUROC JERSEY SWINE.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar living today. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.
E. S. MAYES, JR., SPRINGFIELD, KENTUCKY

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mound's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

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GARDNER, ILLINOIS.

Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

CRIMSON COL. FALL MALES FOR SALE

I HAVE a few extra choice fall males by this $1,200 Iowa State Fair champion, 1911. Choice spring pigs for sale at weaning time. Address
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DUROC BOARS AND GILTS

As good breeding as in existence, as good individuals as the best and priced well worth the money. Few fall boars and gilts by Valley Chief Col. out of dam by C. W. Again, also the Jr. year show boar, Crimson Chief. Nothing better. Will send extended pedigree and prices. Address **J. C. Theobold, Ohiowa, Nebraska.**

DUROC JERSEY FALL BOARS

Reed's big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol. 40437a. If you want a big, smooth, heavy-boned pig, visit or write Wm. Reed, Rose Hill, Iowa. Farm adjoining city limits.

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WHY ARE YOU

reading this advertisement? Because you want prices and terms on the late importations of **PERCHERON** stallions now in the barns of

E. J. HEISEL, FREMONT, MAHASKA COUNTY, IOWA,

91 miles west of Burlington, 70 miles southeast of Des Moines, Iowa, 180 miles west of Peoria, Illinois, M. & St. L. and C. B. & Q. R. R.

PARAMOUNT STOCK FARM

BREEDS AND IMPORTS

PERCHERONS, SHIRES, BELGIANS

SAY, Brother Horseman, if you want to buy a stallion go to **Hudson, Iowa,** and see **Crownover's** new importation of big, flashy, draft, ton type that are sound and right in every way, and a square deal is guaranteed. No hot air, but high-class horses at right prices. Send 10c stamps for large picture of horse parade.
WILLIAM CROWNOVER - - HUDSON, IOWA

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Some excellent young stock, big boned, rugged and of best blood lines for sale at attractive prices. Can furnish you as good stock as anyone; can save you some money. Mention Homestead. Address
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60 **HEAD MISSOURI AND KENTUCKY BRED.** A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address
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TWO choice stallions, one imported, showing size and style and one home bred, with quality. Priced reasonably. Short-horn bull, fifteen months old, well bred. Address
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FOR SALE Two extra heavy-boned, registered Shire stallion colts coming two and three years old. Price $300 and $400.
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Six home-grown 3-year-old Stallions. Making 1,900 to 2,100 lb. horses, the BIG-TYPE. Richest dapple and steel grays and blacks. April 24th I have these 3 year olds besides yearlings and twos and I want to sell them.
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Route 7, Chariton, Iowa

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PETER HOPLEY & SON

LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

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One importation arrived October 25 and are now offered for sale. These are the best lot of horses that have crossed the Atlantic this year. Another importation now on the road. Write or come and see our horses.

Hart Bros.

Osceola, Iowa

Our **1912 importation** now in our stables. A high-class lot of imported **Percheron, Belgian** and **Shire stallions** and **mares.** Come and see them.

PHERCERON and BELGIAN STALLIONS and MARES

IMPORTED and Home Bred. High-class horses on hand.

CALL AND SEE US.
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IMPORTED animals that have been over long enough to be fully acclimated and in thrifty condition, good horses with show quality at reasonable prices. We can suit critical buyers and invite personal inspection. Will meet buyers at C. R. I. & P. or Interurban Ry. if notified. H. P. Wilkinson & Bros., Mitchellville, Ia.

Percheron Stallions

Bargains for late buyers.
Stallions from yearlings to 5 yr. olds
Size, breeding and quality right.

L. A. Matern, Wesley, Iowa.

DON'T WASTE TIME

EVERY spring your mares drop inferior colts you lose one more year of time in which to breed the stuff that pays. There's profit in Percherons because they are what's wanted. Don't delay. Investigate now. I'll put my time against yours to prove you should.

Purchase Percherons.

Address or call upon me freely. Wayne Dinsmore, Sec'y Percheron Society of America, Union Stock Yards, Chicago.

BELGIANS, PERCHERONS

HOME-BRED, registered Belgian stallions; home-bred, registered Percheron stallions and mares. Also standard bred, both sexes.
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Garden Grove, Decatur county, Iowa. R. F. D. 2. 23 miles south west of Chariton.

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SOME bargains in Percheron stallions, ages ranging from yearlings to five year olds. Good propositions on both quality and prices. Address.
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Palestro I. 52027 (67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret (47526) by Theudis, by Besigue, by Brilliant III. and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

IMPORTED BELGIANS

I recently returned from Belgium with another importation of stallions and mares. I have over 40 head of big, drafty, heavy-boned stallions and mares that will be priced right. Farm near town. Write me, mentioning The Homestead.
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VAN STEENBERGE'S DRAFTERS

40 **HEAD** Belgian and Percheron stallions now on hand. Imported and American bred to offer. New importation of big, heavy drafters just arrived.
A. M. VAN STEENBERGE,
OGDEN, IOWA

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

Stooker's Stock Farm

OFFERING just now some very choice Percherons, A pair young stallions and a few mares. Write for full information. Address
F. A. STOOKER, - Dunbar, Nebraska.

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Each a splendid animal and offered at extremely low prices. Call or write **W. W. HARMS, Fairbury, Illinois.**

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, Ia.**

PERCHERONS Imported and home-bred stallions and mares from $200 to $900 each. Address
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For Sale Cheap if taken soon, a Mo. bred jack, a good breeder, prompt and a sure foal getter. Address L.B.Cummings, Clearfield, Ia.

FOR SALE A pair of registered Morgan stallion colts coming 2 and 3 years old. For description and price write F. Bowman, Eldora, Ia.

FOR SALE Ten head of Percheron stallions, mares and colts. Address **Ashbaugh Bros., Maynard, Iowa.**

HORSES AND JACKS.

FRANK IAMS' REDUCED PRICES

IAMS has **all his "Paris and Belgian" "Prize winners"** and best **"business Stallions"** in his barns. **All must be sold.** $1,000 and $1,400 (some higher). Iams' is **"closing out"** his **topnotchers. Iams' kind "are best ever."**

References—First National and Omaha National Banks, Omaha, Neb.; Packers National Bank, So. Omaha; Citizens State, First State and St. Paul State Banks, St. Paul, Neb.

On all His **"Business"** and **"show Stallions,"** are the **"Big Talk."** He is **"Closing Out"** all his horses and making prices **$200 to $500 less than formerly.** Never were such **choice, big "Prize winners"** offered at **such "Big Bargains." "All must be sold."** They are "Model Drafters." Iams' **"31 years of success"** in **Importing, Breeding** and **Selling 5,444 Registered** Stallions and Mares. His "old customers" **make his "best advertisers."** His

PERCHERON AND BELGIAN STALLIONS

are the **very best he ever imported.** They are of **big size, large bone, model, smooth "drafters"** of **quality, fine form, finish** and **stylish,** fast movers. Among them are **Several "Prize Winners" at Paris, Nogent-le-Rotrou** and **Chartress** (three largest shows of France) and **"several Belgian prize winners" at big Belgian "Horse Shows."** They are all fully **acclimated** and in the **"pink of condition."** They were **bought to sell.** All must **be sold at some price. I know France and Belgium and leading breeders there.** I speak the **languages** and know how to **"buy horses" at "Big Bargains"** and **I divide "the bargains."** with my **customers.** Iams has a **Choice collection of**

IMPORTED PERCHERON AND BELGIAN

"stallions," three to six years old, weight 1,800 to 2,500 lbs. All **"Branded," "Approved," "Registered** and **"Inspected"** by Governments of **France and U. S.** and **Certificates "stamped"** O. K. All inspected by a **Nebraska Deputy State Veterinarian,** and **Certificates of "health and soundness"** are **given with each horse.** Iams sells

IMPORTED STALLIONS AT $1,000 and $1,400

(few higher). **Terms cash,** or one year's time at 8 per cent bankable note, one and two years' time Land Security at 6 per cent; $100 less price for cash than time. Iams pays **freight and buyer's fare,** gives 60 per cent breeding guarantee; can place $1,500 insurance. Iams backs up his ads. with a $500 guarantee that you **find the horses as represented.** Write for **Horse Catalog.** It has a **"$1,000 Bargain"** on each page.

ST. PAUL, NEBRASKA.

Belgian Emporium of America

150 Stallions, Mares and Colts 150

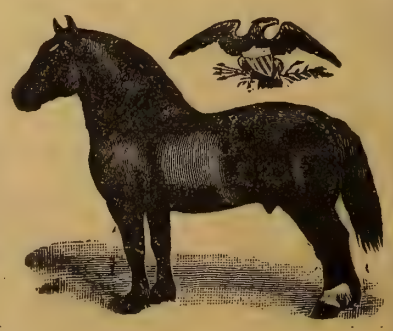
Including a Few Choice Young Percherons

60 HEAD imported October, 1912; another large importation arrived March, 1913, making this the best and largest collection of Belgian draft horses to be found anywhere in America. The supply on hand never allowed to run low; you will at all times find a large and choice collection from which to choose. You will be delighted at the Belgian Horse Show to which you will be treated when here. I can satisfy you in price; I can satisfy you in quality, bays, browns, blacks, sorrels and roans. Get on the train, come to Cedar Rapids or Iowa City, then phone me to meet you at the electric car line; car every hour from Cedar Rapids and from Iowa City. Catalog ready.

HENRY LEFEBURE, FAIRFAX IOWA.

Special Sale of Percheron and Belgian Stallions For Next Thirty Days

New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More to arrive in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.



HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

HOMEWOOD STOCK FARM
PERCHERON STALLIONS AND MARES

It is our intention and has been for the past five years to make a complete clearance every spring so as to give our customers fresh, clean horses each year. We will therefore quote very low prices on all stallions and mares to move them quickly. Every animal with the exception of the home breds were imported by us last fall and are now in prime breeding condition. Stallions are rising three and four year olds. Are blacks and grays and are weighing from 1,850 to 2,150. They are sound, excellent individuals and fit to go into any community needing the services of a first-class draft stallion. We have a few matched pairs of imported mares. If you want a real bargain in a first-class animal of either sex come and see us at once or write for full particulars. Terms to suit anyone. Homewood is conveniently located twenty-three miles south of Chicago on I. C. and Big Four railroads. Trains to and from the city every hour. Barns near station, Belle phone Homewood 58 W.

S. METZ & SONS, Homewood Stock Farm, Homewood, Illinois

MAASDAM & WHEELER
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PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

W. A. LANG & CO.,

Greeley, Delaware County, Iowa.

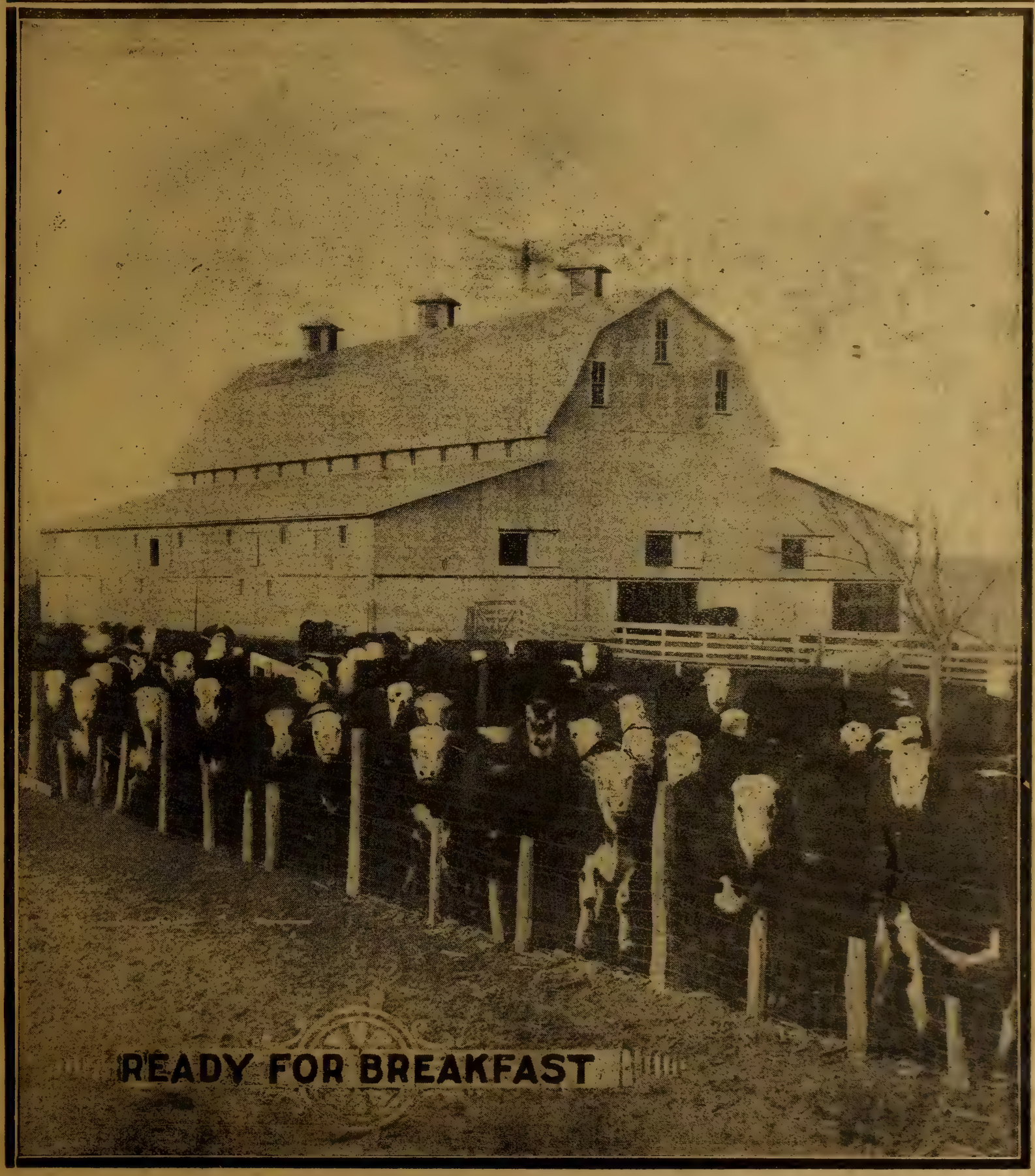
Importers of BELGIAN and PERCHERON STALLIONS and MARES.

We wish to announce to the buying public that we will now, as in the past, give you more good, sound, young horses for the money than you can get elsewhere. We do not advertise cheap stock because we do not think the best breeders want that kind, but we will sell you the good ones at as reasonable margin of profit as possible, and do a remunerative business. All horses are backed up by our GILT EDGE GUARANTEE. Write for full particulars.

FILE No. 58 V. 27

The IOWA Homestead

VOL. LVIII. NO. 19 DES MOINES, IOWA, MAY 8, 1913. WHOLE NO. 2900



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Absolute Comfort for the Motorcyclist!

The **Indian**

Motocycle for 1913

includes in addition to the **Cradle Spring Frame**

ten important new features. There are besides no less than twenty-nine new minor features. We call these "refinements"—not improvements.

Another important comfort point of the 1913 Indian is the equipment of Foot Boards in addition to pedals. The latter are in reality fitted only for the purpose of starting the motor, similar to cranking an automobile. Once started, the rider has the choice of two comfortable riding positions, with absolute control of the machine assured in each.

Prices: { 4 H. P. Single, $200 / 7 H. P. Twin, $250 } f. o. b. Factory

Ask any of our 2000 dealers for a demonstration

SEND FOR LITERATURE

The Hendee Mfg. Co.

975 State St., Springfield, Mass.

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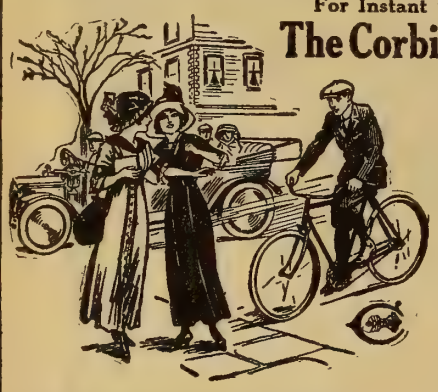
For Instant Control of Your Bicycle in Traffic

The Corbin Duplex Coaster Brake



When cycling in city streets, hundreds of occasions arise when the instant and absolute control of your wheel is not only desirable but essential. There's the safety of others besides yourself to consider.

The Corbin Two-Speed Coaster Brake is also an invaluable control device. Particularly helpful to elderly riders. Decreases the labor of riding up steep hills and against strong winds. Operated by pedal. Simple, strong and reliable.

Either of these Brakes fitted to your wheel at any bicycle repair shop.

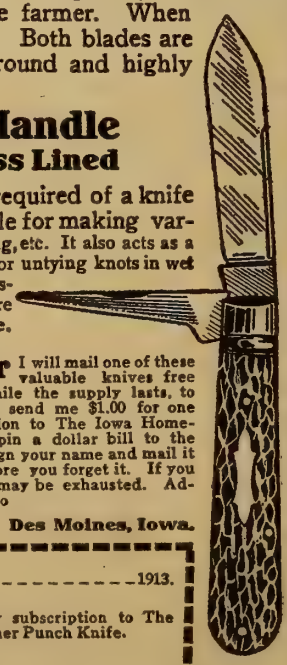
Send for 1913 catalogue showing all models

Corbin Screw Corporation Division
(American Hardware Corporation)

336 **High Street, New Britain, Conn.**
Licensed Coaster Brake Manufacturers

THIS KNIFE COSTS MY READERS NOTHING

You have read about the famous Leather Punch Pocket Knife—the knife that is called the "Marvel of Mechanical Ingenuity"—the only knife that was ever made especially for the farmer. When opened it is six and one-half inches long. Both blades are of finest tempered tool steel, perfectly ground and highly polished. The knife is complete with



Best Quality Stag Handle
Securely Riveted and Brass Lined

The large blade fills every common use required of a knife while the leather punch blade is indispensable for making various sized holes in leather for buckles, rivets, belt lacing, etc. It also acts as a swedging awl or marlin spike when turned to the left. For untying knots in wet rope and hard leather this blade has no equal. While possessing all these valuable features, the knife is no more clumsy or awkward to carry than an ordinary pocket knife.

My Guarantee I am so sure that this knife is all I claim for it that I am going to place a gilt edge guarantee on it. Send me $1.00 for one year's subscription to The Iowa Homestead. I will mail you a knife free. Try it for ten days. If it is not just what I claim it to be, you can return it to me and I will refund your money. You take no chances.

My Offer I will mail one of these valuable knives free and prepaid, while the supply lasts, to anyone who will send me $1.00 for one year's subscription to The Iowa Homestead. Simply pin a dollar bill to the coupon below, sign your name and mail it to me today before you forget it. If you wait my supply may be exhausted. Address all orders to

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USE THIS COUPON

Date ---------- 1913.

James M. Pierce, Des Moines, Iowa.
Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Iowa Homestead for one year. Send me prepaid your Leather Punch Knife.

My Name is ----------

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When Writing to Advertisers Please Mention The Homestead

How One Farmer Keeps His Boys at Home.

MR. VANQUIST has been successful in keeping his boys at home; in interesting them in the farm work until they enjoy doing their share of it. In frequent instances his neighbors' sons have left the farm as soon as they grew up, leaving their parents to hire help if they could find it. Mr. Vanquist reasoned it out that when a young man preferred to leave home and work for a stranger instead of staying on his father's farm something was usually wrong with the parents' methods, providing, of course, that they owned enough land to make their son's residence on the farm profitable. If his labor is profitable for a stranger to hire, it seems that it would be doubly profitable to utilize this labor in his own and his father's interests. He would then save himself from the not-to-be-envied life of a farm hand, at the same time relieving his parents from the embarrassment of searching for help. Mr. Vanquist once explained his methods to a farmer friend, who was desirous of learning them so he could put them in practice. Said Mr. Vanquist:

I have always had a deep interest in the welfare of my sons; I have always felt myself partly responsible for their future. I have three sons. They range in age from twenty-three to twenty-nine. Not one has ever left the farm with the intention of staying, and I have never heard any of them express a desire to leave. They have been perfectly satisfied with their lot; although in this connection it is only reasonable to judge that they were born farmers.

When the oldest of the boys was large enough to begin work I owned 160 acres of land. Today my boys and myself own a good deal more. The elder of my sons did not receive as good a common school education as he probably should have. The other two, the younger especially, were more favored in this respect. My oldest boy's name is Henry. When Henry was nine years old he began to be anxious to help me do the farm work. Instead of discouraging him by laughing at his offers of assistance I took great pains to encourage him, and I always rewarded a particularly industrious spell on his part by giving him a nickel or a dime. He had a little savings bank and kept his money. I am not going to tell you that he saved enough this way to get a start in life. The sum total was small, but it helped to instill the business sense in him.

Five years later Henry was working by my side like a man. We drew up partnership papers together. We invoiced all the stock on the farm and I signed up that he was to have one-tenth of the net income to reimburse him for his work. This business-like method pleased him immensely. Other boys about his age or a little older were growing more and more discontented with home life, and were planning to "break loose" when the opportunity came.

For the next six years Henry and I farmed together under that contract. Each year we figured up his tenth of the profits and he deposited it in the bank. Of course, he did not have to buy his own clothes. I did that. During these six years, being in a receptive mood and eager for information concerning the different kinds of farm work, Henry learned to be a first-class farmer. He took an interest in his work, and farming is just like everything else, to succeed one must have interest.

The spring Henry was twenty-one we readjusted our arrangements. I had purchased an additional 160 acres. Eighty acres of this was pasture, the other half was plow land. We added up Henry's money in the bank and found that the six years of work had netted him $380. This sum was sufficient to buy a good team, and Henry purchased a pair of draft mules. Mules were cheaper then than now, and he got a fine team of four year olds. He has them yet, for I never have encouraged my boys to trade, buy or sell horses and mules more than is absolutely necessary, for I think when a man gets used to a good team it is better to keep them.

From now on Henry was to have one-third of the net income off the farm, and the money he received was to be applied on a real estate purchase. He was eager to acquire an eighty of his own, and I was anxious for him to. We had plenty of horse power for our present uses and we kept things moving. My two younger sons were seventeen and eighteen, respectively. They had not been receiving any percentage of the profits, but the spring Henry was twenty-one I thought it was time the youngsters were getting interested in the farm, so they became partners and I signed up to give them one-eighth of the net income. They intended to save their money and invest in calves and chickens. Henry's hobby was hogs. The four of us working together enabled us to handle a large acreage of grain, and besides we raised and fed as many cattle and hogs as possible.

We kept this up for another two years; then I drew a new contract with my second son. The sum to his credit at the bank was sufficient to purchase ten heifer calves. He was going to apply the percentage he got in the future to paying for an eighty which I had purchased with the intention of selling to him on the easy-payment plan. I wasn't well enough fixed so I could afford to give each of my boys a farm outright as some men are able to do. In some cases I doubt if giving outright is a very good method. A young man appreciates property more if he earns it by his own efforts.

Before the younger boy was twenty-one he started out in the poultry business. I furnished him the ground for his yards and chicken houses, and supplied him with the land to grow his feed in return for his assistance with the general farm work. He raised a good deal of his grain—milo maize and kaffir corn—on patches of ground which were not overly profitable for other varieties of grain. His poultry business soon netted him a fair income. He grew quite proficient in the management of incubators, usually bringing off hatches that equaled any in the country. All my sons learned the art of managing special kinds of farm work early in their lives by having an interest of their own in the undertakings.

With Henry raising hogs, my second boy keeping heifer calves until they grew into cows, the youngest boy running a complete poultry business, and the four of us working together at the general farm work, such as raising corn, wheat, oats, alfalfa, etc., necessitated quite a little labor in keeping account of and listing the different expenses and gains of each separate transaction. Each of the boys was paying for his land and other property. I had my own personal business transactions to care for; so we had to be careful to keep accounts straight.

We saw we needed an office of some kind, and as we had a small bed room in the house which we never used we fixed it up a little and made an office of it. We didn't furnish it especially fine, we just had a good, serviceable desk, a rebuilt typewriter which I bought of an agent, a small filing cabinet to keep our catalogs, registered stock pedigrees, etc., from getting mixed up with unimportant stuff. I already owned a little safe in which I kept our land deeds, insurance policies, etc.

Each of the boys had his separate account books—we did no elaborate bookkeeping—and regularly every month we figured up to see how we were progressing. We aimed to balance things so we would always have enough stock on hand to consume the corn and alfalfa we raised. Of course, if we hadn't kept an accurate account of our transactions we wouldn't have known what each of our shares amounted to at the end of the year, and the result would have been a jumble at settling time, and probably would have been the cause of considerable dissatisfaction.

None of us are very sporty, but we try to have a little amusement now and then. Nearly all normal boys and men like to go to shows and other wholesome amusements. The town within seven miles of us has a good moving picture show and the boys drive there frequently evenings when the roads are good. No one who has not passed through the long silent days on the farm can realize the pleasure and relaxation a little moving picture show can give. Lots of boys would stay on the home farm if their parents sympathized with their desire to go out in the evenings occasionally and have a little fun. Each of my boys has his own driving horse.

We like to read and my sons and myself subscribe for all the good farm papers, a good daily and some fiction magazines. My sons have never attended college, but I think they are about as well informed and are as good farmers as the average college man.

I have noticed that the introduction of modern machinery has done a share in keeping boys on the farm. Progressive farmers have found that it is not profitable to have their own sons or their hired help fooling with some old-fashioned piece of machinery which has been superseded by one with which much better results can be obtained. The labor of operating the new kinds of machinery is greatly lessened. The hay loader has saved the farmer from the strain of pitching heavy alfalfa all day under a hot sun. The stackers have greatly simplified stacking hay of all kinds in the field. All of these modern machines will pay for themselves in a short time; because they are instrumental in putting up a crop in a hurry, often saving it from getting wet in a summer shower.

Having good silos, hay barns and handy accommodations for cattle and hogs saves the boys from having to haul feed all day in a blizzard, and prevents them viewing the discouraging spectacle of a herd of shivering, stupid cattle, with snow resting on their backs.

I let my son Henry fix up for hogs in the way that suited him. He built a fine hog house. It has a driveway in the center and the stalls are on both sides. When the building needs cleaning out all we have to do is to drive in the manure spreader and load up. I think that boys who have the opportunity to use manure spreaders take a much greater interest in hauling manure than those who have to use the tiresome method of handling it with a fork.

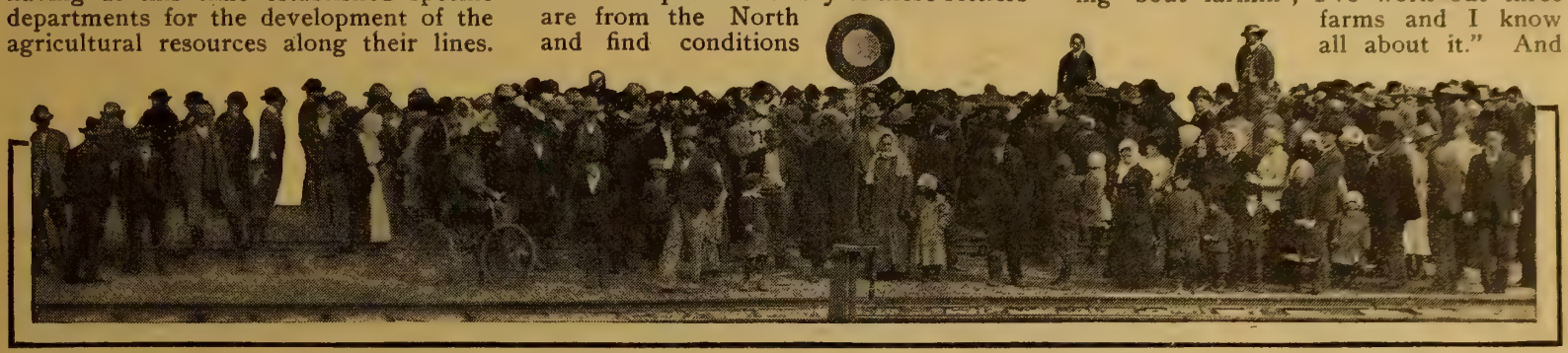
The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 8, 1913.

How the Agricultural Commissioner Helps

A New Phase of the Co-operation Between Railroad and Farmer, Which Means the Profit of Each, Told by W. R. Beattie, Agricultural Commissioner of the Cotton Belt Railway.

NOWADAYS everybody is getting interested in the agricultural welfare of our country. The railroads were among the first of the large interests to recognize the influence of agricultural development and their example has been followed by many of the large commercial enterprises. It is only within the past few years, however, that any definite plan for the agricultural development of the territory contiguous to the various railways has been followed, and at first the work was handled by the traffic departments. The position of railway agricultural commissioner is a comparatively new one, only a few companies having at this time established specific departments for the development of the agricultural resources along their lines.



WAITING FOR THE COMMISSIONER AND HIS DEMONSTRATION CAR IN ORDER TO LEARN BETTER FARMING METHODS.

One of the large railway systems of the South now maintains a department consisting of about thirty men who are working for the general improvement of farming conditions. This work is conducted in close connection with the United States Department of Agriculture, Farmers' Co-operative Demonstration Work; many of the men engaged in the work for the railway have been drawn from the government demonstration work; in fact, the United States Department of Agriculture is serving as a training school for the preparation of men who can fill the positions now being created by the various railways in the line of agricultural development.

The duties of the position of railway agricultural commissioner embrace everything pertaining to life and work on the farm, also the relation between the farmers and the transportation companies and marketing problems. Taking as example the railway of which the writer is the agricultural representative, the work is primarily one of an educational nature, "helping the farmers to help themselves," and includes everything pertaining to the agricultural development of the territory served by the company he represents. In addition, the successful agricultural commissioner must be something of a booster and a good publicity agent. The time has come when the farmers themselves are no longer content to go along in "the same old way," and they are seeking reliable information. A comparatively small per cent of the people who live upon the farm have the opportunity of attending college, and if they are to become proficient in their line of work an education must be carried to them. Often, however, the tiller of the soil is self-satisfied and indifferent to modern ideas of agriculture and before he can be taught must first be interested. It is often difficult to get the farmer to understand that the interests of the railway and his own are mutual and that the progress of either is dependent upon the other.

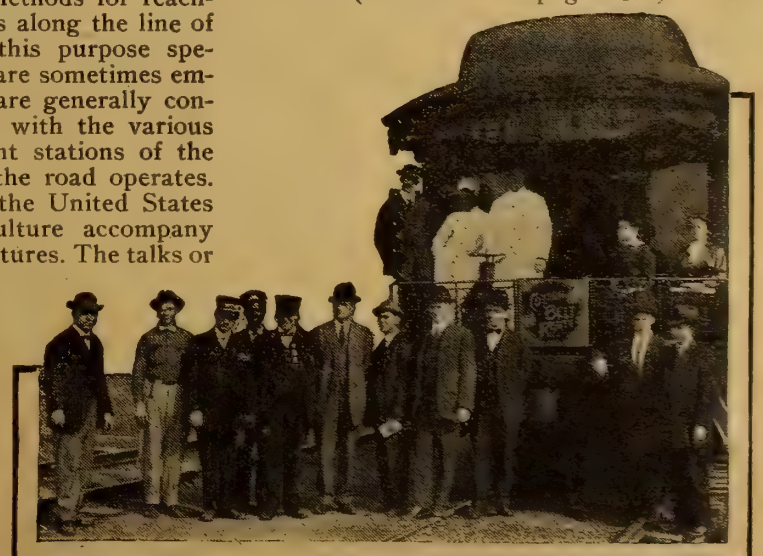
The object of any transportation company in the maintenance of an agricultural department is to develop its territory and to create traffic, both freight and passenger. Many of the railways, and especially those in the South, pass through sections where there is yet plenty of cheap and fertile farming lands, and there is a constant stream of emigration from the more thickly settled districts to these cheap lands. Many of these settlers are from the North and find conditions that are very different from those to which they have been accustomed. In cases like this a visit from the agricultural commissioner of the railway, or one of his assistants, is often the means of getting the newcomer on the right track and headed toward prosperity in his new home. A little later Mr. Newcomer writes back to his friends and neighbors. One by one they follow him and soon there is established a whole new community. An occasional visit on the part of the railway's agricultural representative helps to keep up the interest of these people, and sooner or later the results begin to show the form of traffic returns. It is in this personal contact that the greatest and most satisfactory results are obtained.

It is often necessary, however, to resort to more general methods for reaching the mass of farmers along the line of the railway, and for this purpose special agricultural trains are sometimes employed. These trains are generally conducted in co-operation with the various colleges and experiment stations of the states through which the road operates. Very often men from the United States Department of Agriculture accompany these trains and give lectures. The talks or lectures upon the various crops and farm problems are the main feature of the work undertaken on these trains. However, exhibits of various kinds are often included as illustrations of the lectures. In the conduct of these "agricultural schools on wheels," the object is to sow the seed which starts the farmer thinking and to prepare the way for more definite work along special lines.

The persons who accompany these educational trains have some novel and often amusing experiences. At nearly every stop there are a few who "have to be shown," and these generally hang around the outer edge of things generally. On one occasion the writer approached one of those who remained outside while a talk on soil fertility was being given in the lecture car and asked the question, "Why do you not go in and hear what the speaker has to say?" The reply came very promptly, "You can't learn me nothing 'bout farmin'; I've worn out three farms and I know all about it." And then there is nearly always the "whittlers," who stand over by the depot or sit upon a baggage truck and whittle, making mostly just shavings. One of these was heard to remark, "I would go in if I thought he could tell me how to fool some sucker on a horse trade." It is gratifying to note, however, that the majority of the farmers and their wives come to hear, to see and to learn.

The tour of the train invariably brings to light many problems and weak points in the farming methods of the various localities, also opportunities for the development of special farming industries. It is a well-known fact that enough goes to waste on many farms to feed several people if it were cared for. Recently the United States Department of Agriculture,

(Continued on page **17**)



A CAR LOAD OF EXPERTS AT THE FARMER'S SERVICE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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BELIEVES IN DRY FEED FOR PIGS.

The following communication from one of our subscribers, Mr. Chas. King, of Hanson county, South Dakota, deals with a subject in which corn-belt farmers are vitally interested:

I have been much interested in the different methods given for handling and caring for the young pigs. The main thing for which we are striving is to get the pigs ready for market in the cheapest, quickest and the most economical way.

Where twenty-five or thirty sows are bred I think it is best to have two males. We have 100 pigs, the oldest ten days old and the youngest four. I am feeding ear corn together with corn, oats and rye, ground in equal parts. Have a self-feeder for the ground feed where the little fellows can learn to eat with the sows. No slop is fed, as we think the dry feed is much better, especially in a self-feeder where they can get it as often as they like. Then there is no danger of gorging or overloading their stomachs like there is on slop.

When the pigs are four to six weeks old we will fill our sixty-bushel feeder with the ground feed (composed of corn, oats and rye) supply a self-waterer from a large tank and our pig feeding is done until the feeder is empty. Also in about four weeks we shut the sows away from the self-feeder and give them corn and pasture, and by October 1st the sows will be ready for market. We have had pigs 150 days old weigh 187 pounds, or a gain of one and one-fourth pounds per day.

Another advantage is that the young sows at farrowing time weigh from 250 to 350 pounds. At that size I consider that they are equally as good as old sows and not so apt to lie on the pigs as older sows.

This method of feeding saves an enormous amount of labor in a season when as many as 100 shoats are fed, and certainly the weights attained by Mr. King are fully up to the very best results that can come from slop feeding. We would call special attention to the mixture of ground feed that is being fed in this case, namely, equal parts of corn, rye and oats. This makes a ration that is palatable and it is one in which the feeding elements are almost perfectly balanced.

If there are others among our subscribers who have had success in feeding dry feed alone, or if there are those who have tried it out and have failed we shall be glad indeed to have their plans outlined for the benefit of all our readers.

THE BEAUTIES OF NATURE.

The celebration of Arbor Day in the various states calls attention to a phase of country life all too apt to be overlooked in the hustle and bustle of making a living by farming. That phase is the non-practical, the idyllic. All too many people living in the country are prone, at times, to think their life humdrum, to yearn for the bright lights and the noises of the city; overlooking the fact that the greatest riches and beauties of life are theirs not merely for the asking, but for the accepting. It is a good thing to celebrate Arbor Day, for it quickens the interest of the young and it reminds the old that there are beauties and riches of nature which must be listed with the other assets of country life.

We cannot commend too highly the spirit which permeates most of the Arbor Day proclamations issued this year. We do not remember, in several years, to have seen a more artistic arrangement of Arbor Day sentiments than are to be found in the booklet issued by the department of public instruction of Iowa. The place of honor is given to the proclamation of the governor, who shows that he is imbued with the spirit of the day by quoting John Ruskin: "While I live, I trust I shall have my trees, my peaceful, idyllic landscape, my free country life—and while I possess so much, I shall own 100,000 shares in the Bank of Contentment." Isn't this a sentiment to cheer one up on a dull day and show how full of riches this poor old world is, after all?

With such an introduction this particular Arbor Day proclamation proceeds with these words of the governor: "How we love the trees that sheltered our childhood. Some of the finest, sweetest memories of life are there. The tree that we planted with our own hands many years ago, now strong against winter storms and beautiful in summer sunshine, what a sense of proprietorship and inexpressible comfort we have in it." Here is a sentiment above and beyond all politics and factionalism, a sentiment in which the country dweller should be able to agree with a spontaneity not possible to the city man.

Nor does the sentiment stop here, for while the governor is thus apostrophizing nature, the state superintendent of public instruction bursts thus eloquently into prose:

How blind are we to Nature's efforts to make this world a pleasant place in which to live! We trample the grass and the flowers under our feet; we pass the trees without observing that one differs from another just as races of men and individuals differ. We do not hear the songs of the birds and so we miss much that might gladden life's pathway.

If Arbor Day had no other value than to quicken interest in the beauties of nature in those who are asleep to these beauties too much of the time, it would be well worth while, but there is not an Arbor Day which does not find many thousands of trees planted, of an economic value untold. It was a brilliant inspiration, this Arbor Day movement, and deserves to be helped along by every man, woman and child. It is uplifting and inspiring; as well worth while as anything of which we can think.

DO LIGHTNING RODS PROTECT?

The Ontario Agricultural College has carried on a somewhat extensive investigation to ascertain the protective value of lightning rods on farm dwellings and outbuildings. Part of this work of investigation was carried on in connection with insurance companies and the data obtained has been largely secured from this source. Eight of these companies were all that were able to furnish reports complete in every particular.

Although the first six companies insured 5,614 barns, the number rodded being 1,538, which makes 27.4 per cent, twelve barns were burned, among which there was not one that was rodded. These same companies had seventy-two barns damaged, of which one was rodded. Five companies insured 4,023 houses, the number rodded being 592, which makes 14.7 per cent. Three houses burned, of which none were rodded, and thirty-four were damaged, of which one was rodded. The last two companies insured 1,008 barns and houses combined, the number rodded being 122, making 12.8 per cent. These two companies had four building burned and ten damaged, with not a rodded one among them. Taking the whole eight companies together they insured 10,644 buildings, the number rodded being 2,252, which makes 21.1 per cent As these companies renew their risks every three years, the total number of rodded and unrodded buildings insured is probably about three times the figures just given. They had nineteen buildings burned, of which one was rodded. Adding the burned and damaged buildings together we see that these companies had 135 buildings struck by lightning, of which only two were rodded, which makes 1.5 per cent.

Of the buildings insured by these companies last year 21.1 per cent were rodded. This may be taken to represent fairly accurately the percentage of rodded buildings in the territory covered by these eight companies. If the rods had no effect one way or the other, we would expect that 11.1 per cent of the buildings struck would have rods on them. For every seventy-nine unrodded buildings struck we would expect also to find twenty-one rodded ones struck and for 133 rodded, thirty-four rodded ones would be due to be struck, but only two were actually struck. Are we not justified, the author of these investigations asks, in saying that in all human probability the rods prevented strokes on thirty-two out of thirty-four rodded buildings?

Or, looking at it another way, out of every 7,000 unrodded buildings insured by these eight companies thirty-seven were struck by lightning, while out of every 7,000 rodded ones only two were struck, therefore unrodded farm buildings are more than eighteen times as likely to be struck by lightning as rodded ones.

INTENSIVE FARMING ABROAD.

The extent to which intensive farming is being carried on and is proving successful in foreign countries is strikingly shown by a French magazine writer. He tells of a French woman who, toward the end of October, 1911, planted one grain of barley. As soon as the young plant protruded from the soil it was earthed up with care and produced fifteen stalks. In February and March, 1912, two new earthings produced ninety-nine stalks. By May 12th the single grain had produced 212 stalks and on June 10th there were harvested 236 stalks, 212 ears and 5,300 grains.

Encouraged by a yield of 530,000 per cent the French woman tried her experiment on a tract two and one-half acres in extent. The last report available is dated last December, and is to the effect that from the planting of one grain in a space eighteen inches square there have sprung 20,000 clumps, each of twelve to fifteen stalks, which will be correspondingly multiplied with the coming of spring.

Even more striking results, although achieved by a method obsolete and impractical so far as American adoption is concerned, are reported from China, the French writer telling the story thus:

The Chinaman after furrowing the earth with his wooden plowshare, without turning it, crumbles each lump in his hands till it is like fine powder. This done, at planting time he walks slowly down each furrow carrying a grain drill which is a marvel of ingenious simplicity.

Picture to yourself two-pointed plowshares about twenty inches apart and connected by a transverse bar supporting a hopper filled with grain, from which issue two slender bamboo tubes designed to conduct the grains so that each will drop in the wake of one of the shares. The diameter of each tube is just great enough to allow the passage of one grain at a time without letting it drop until it receives the impulse of a slight shock given by means of the handles which complete the apparatus.

The sower pushes the drill in front of him, inclining it now to the right and now to the left, in such sort that each inclination causes the issue of a single seed, which is instantly pressed under by the track of one foot or the other. The seed plot is thus made in the form of a "quincunx," each planted grain being at a distance of sixteen to twenty inches from its neighbors in every direction.

At the end of a few weeks germination begins. When the young plant is ten or twelve inches in height, there are a score of stalks about its stem each provided with a fringe of rootlets. The farmer covers each with loose earth by means of careful hoeing, thus raising the level of the furrow. Each stalk again proliferates, and there are soon fifteen to twenty new stalks around its stem, which detach themselves. All are the indirect issue of a single grain, which proves therefore to have been the parent of 300 to 400 stalks, each bearing an ear.

Transferring this method to experimental fields and perfecting it, it has been found possible to separate from the stem each of the primitive stalklets with its own roots, transplant it, and then treat in the same way each of the new plants thus formed.

Thus Philippe Miller planted a seed in the experimental gardens at Cambridge in June, 1776; in August, 1777, he obtained as a harvest from this single seed 576,000 seeds. For unknown reasons the experiment was not repeated until June 12, 1903. On this date our own compatriot Bellenoux treated in this manner twenty grains of wheat planted in one square yard of carefully mellowed earth. On August 9th he separated and replanted the numerous stalklets springing from the earth. On October 8th of the same year, then on March 3d of the next year and finally on May 13th he repeated the operation. On July 30, 1904, each of his twenty grains had produced 604 clumps bearing 28,388 ears, containing a total of 709,701 grains. This prodigious harvest corresponds to a yield of nearly three tons to the acre.

The various commissions which the United States and the separate states are sending abroad to study agricultural conditions will find much of interest, and of possible profit, in the study of intensive farming operations. This is not to say that all these practices could be successfully followed in America, or that conditions are similar enough here to warrant all being tried. But that more interest is being taken in intensive farming in this country and more converts are being enrolled every year is an indisputable fact. The southern rice grower, on his dry uplands, is reaping a larger harvest than the Oriental, with all his transplantings and intensive cultivation. Conditions are so different, however, that comparisons are odious and unjust. American agriculture may well afford to study foreign methods, for some of them are practical and all are interesting, to say the least.

NEW IOWA WEIGHT LAW.

Numerous requests have been received from subscribers for particulars of the new weight and measure law passed by the recent Iowa legislature and already in effect. The new law fixes the correct weight of scores of commodities and requires the retail dealer to sell by weight, rather than by loose measure as heretofore. Only the berry merchant is exempt, for the time being, from the operations of the new law. Because many merchants had stocked up with berry boxes, which are of short weight, before the law was passed, it was decided to defer operations in this particular until October first. After that date, however, berry boxes which contain less than a full pint, half-pint or quart, by interior measurement, will be confiscated and the short-weight dealer prosecuted.

Official Iowa weights for various stuffs that come under the new law are as follows, the number of pounds being for the bushel:

Apples	48
Apples, dried	24
Alfalfa seed	60
Barley	48
Unshelled green beans	56
Dried beans	60
Lima beans	56
Beets	56
Blue grass seed	14
Bran	20
Bromus inermis	14
Broom corn seed	30
Buckwheat	48
Carrots	50
Caster beans, shelled	50
Charcoal	20
Cherries	40
Clover seed	60
Coal	80
Coke	40
Field corn on cob	70
Unhusked field corn	75
Shelled field corn	56
Cornmeal	48
Cucumbers	48
Emmer	40
Flax seed	56
Grapes, with stems	40
Hemp seed	44
Hulled hickory nuts	50
Hungarian grass seed	50
Kaffir corn	56
Lime	80
Millet seed	50
Oats	32
Onions	52
Onion top sets	28
Onion bottom sets	32
Orchard grass seed	14
Osage orange seed	32
Parsnips	45
Peaches	48
Dried peaches	33
Peanuts	22
Pears	45
Green unshelled peas	50
Dried peas	60
Plums	48
Popcorn on ear	70
Shelled popcorn	56
Potatoes	60
Quinces	48
Rape seed	50
Redtop seed	14
Rutabagas	60
Rye	56
Salt	80
Sand	130
Shorts	20
Sorghum seed	50
Spelt	40
Sweet corn	50
Sweet potatoes	50
Timothy seed	45
Tomatoes	50
Turnips	55
Hulled walnuts	50
Wheat	60
Unspecified root crops	50

There has been much complaint in the past because of retail dealers buying produce from the farmer by weight and selling it by measure, with the result that the city buyer was cheated in the amount received. The new law will protect both the producer and the consumer.

Asserting that the Texas produce commission men have formed a combine by means of which they have been able to force the price of Bermuda onions up to eight and one-third cents a pound, the onion growers of that state have formed the Palm Garden Onion Association for "busting" the onion trust.

HOGS ON CLOVER PASTURE.

An Illinois subscriber gives his experience in pasturing hogs on clover in the following communication:

With the possible exception of alfalfa I do not believe there is any better pasture for hogs than common red clover. They like it and do well on it, but it does not supply a complete ration. On account of its small stomach the hog cannot eat enough bulky feed to make rapid gains, hence it is necessary to supplement clover with a concentrated feed. I feed my hogs, when on clover, a half ration of grain or meal. I have found that well-bred pigs will make fifteen to eighteen pounds of pork for every bushel of corn consumed on clover.

It is a mistake to pasture any grass too closely and as hogs do not eat coarse, woody growths as readily as they do the tender ones, when the clover becomes tough and woody I find it a good practice to clip it with a mower at intervals of a week or ten days. In this way a new crop will be coming on which is fresh and readily eaten by the animals. This is not wasting clover, but prevents it from blossoming and getting too tough for the hogs. The life of the clover may be greatly prolonged by this method of clipping.

When the clover is wet with dew or rain I do not allow sows with pigs following them to run on it, as it is likely to produce scours. This ailment is one to be avoided, as it is often difficult to control. It makes a loss in growth and is an expensive trouble.

My pigs have fresh water in plentiful supply, and a box containing salt, wood ashes and charcoal is always accessible. These act as a vermifuge and preventive of disease and meet the hog's craving for mineral matter in the feed.

When giving hogs their grain feed, care should be exercised that hogs of equal strength and vigor are placed together. The smaller and weaker ones should be fed in troughs apart from the larger and stronger animals, so when the troughs are filled all may get their share. It is not an uncommon sight to see a feed trough from which the smaller and weaker animals are forced away, while the stronger brethren get the lion's share.

Unquestionably the swine breeder who does not have a good clover or alfalfa pasture for his hogs is handicapped compared with the fellow breeder who has. This subscriber's practice of feeding about one-half a ration of grain is scientifically sound. While it is true that hogs might be carried for a time while grazing without grain, yet there is a long-time maintenance cost in this case and some time before the shoats are finished for market this cost must be more than made up if any profit results. It may not be necessary to feed quite half a ration, in which case the hogs will finish up a little later, but the extent to which the cost is cheapened by using more clover might more than make up the greater length of the whole life of the shoat.

WHY FARM HELP IS SCARCE.

A public welfare league that has been operating a department intended to aid farmers in securing help and in turn assist those who are out of employment in obtaining work has discovered, as they think, one cause for the scarcity of farm labor. When this service was first originated it was soon discovered that there were more applications from farmers seeking help than there were applications of men seeking work. In most cases farmers are prepared to furnish employment only for a period of a few months, while those who made application for farm work were looking for employment the year around. This, therefore, places the farmer at a disadvantage, the league contends, when he goes into the labor market and competes with other industries, and, as a result, it is becoming more and more difficult to find sufficient labor to handle ordinary farm affairs.

Few young men with the right kind of stuff in them are satisfied to loaf around for a few months each year, between seasons, as it were, so that it very often happens that those who seek employment in the city from a given neighborhood are taken from among the very best of those who are available. No fault can be found with the efficiency of those who are able to find employment the year around on farms because, as a matter of fact, these may be said to include the first draft made upon the available supply. If, however, the supply of good men is not absorbed in this way no criticism should be offered if the farm is deserted altogether and some sort of city or town life entered upon.

In a way the situation is such as to leave the farmer in a dilemma because, instead of getting better it is rapidly growing worse. It is a problem that will yet awaken the whole nation before it is solved, brought about by the disparity that exists between the number of those engaged in production and those who are non-producers. In spite of this it is not a difficult matter to suggest a remedy and it is a problem that must be worked out by the farmer himself. This remedy, in our opinion, will consist in the providing of homes for farm help so that those so engaged can enjoy to a fuller extent the results of their labor on the farm than they can command at any other occupation. They must have in these cottages even a little more of the necessities, comforts and luxuries of life than they can obtain elsewhere and there must be supplied educational opportunities for their children that are not surpassed either in town or city. When this condition is brought about it will not be a question of working five or six months and then loafing, but rather it will become an agreeable life work, comparing favorably in this respect with any other form of industry.

THE WORK HORSE'S SHOULDERS.

Good teamsters are born and not made. This applies not only to talent required in feeding animals, but in their care generally. Men may be ever so kind and altogether rightly disposed and yet fall far short of being able to get the maximum service out of work horses and at the same time keep them in good flesh and keep their shoulders in proper condition. On this point a Kansas subscriber has some advice to offer which he gives in the following communication:

All of us who work horses should be careful to take good care of their shoulders. Occasionally with the best of care a horse's shoulders will get galled, causing the hair to slip off and making the part tender; or sometimes a bunch will form on the part of the shoulder where the collar presses the most. The galls are caused from sweat and lack of ventilation; the bunches are caused from bruising.

Prevention in all things is better than a cure. See that the collar fits the horse's neck properly. When working the horse in the field raise the collar up occasionally so the sweaty shoulder can get air. When the horse is unharnessed at night the shoulders should be washed off with cold water in which a little salt has been dissolved. Do the job thoroughly and dry with an old sack. See that the collar does not make the horse's neck sore where it rests against it on the top. Pull the horse's mane out from beneath the collar and braid or tie it up so it will not slip back.

When a gall starts it should be treated promptly and properly before it runs into a bad sore. Keep it washed clean with salt water and apply plenty of healing powder. The healing powder is much superior to any salve; for it absorbs the moisture which accumulates on the sore. When it is necessary to work the horse cut a hole in a collar pad so it will fit all around the sore and prevent the collar pressing on it. Take the healing powder out in the field and dust the sore occasionally while resting at the ends of the rows. This will hasten the cure and be a great comfort to the animal.

The sores which form on the top of the neck are the most dangerous, for they are close to the spinal cord. I have known of cases where these sores were neglected and as a result the animal died. Never put a strong preparation, no matter how strongly it is urged upon you, upon the sore on the top of the horse's neck. Use the healing powder and, if possible, rest the horse. Trim the mane away and have a large, smooth piece of leather made to slip under the top of the collar. These sores are difficult to cure because the horse wiggles and twists its neck continuously, keeping the affected place irritated.

The bunches which form on the shoulders are annoying, but not especially dangerous. If very bad they may have to be removed by the horse doctor's knife when cool weather comes. Wash them with cool or cold water and see that the collar does not press against them any more than can be helped. A salve preparation which contains blue vitriol will have to be used here. Apply it frequently and keep the collar and pad clean.

To soften up the collar pound the inside with a large bottle held by the neck in the hand. When pads are used it is necessary to wash them frequently with soap and warm water in order to remove the filth which prevents any ventilation by clogging up the pores in the cloth. Humane collars are coming into more extensive use every year because in most of cases they remedy the faults of the old-style collar.

To this we would like to add that the one principle that must be kept in mind in fitting the collar is to keep the point of draft close to the sides of the neck. A wide collar means that the points of the shoulder blades bear too much of the pressure and this means a constant movement of the collar which results sooner or later in galling and blistering. While we are not fond of the sweat pad, yet there are instances where the pad can be used to very great advantage, particularly as a horse gets a little thinner and the collar therefore becomes too wide. Before resorting to the use of the pad, however, we prefer to do everything that can be done to pull the collar in the sides, even though it is necessary to place a strap under each hame to use as a leverage in springing the sides of the collar in toward the neck. The principle to be kept in mind in fitting the collar is well illustrated by our own inclination when we are obliged to carry a rail, post or any similar object on our shoulder. We do not place it out at the point, but rather close up to the neck where there is a good pad of flesh and where there is the least possible degree of movement.

THE COMMUNITY CENTER.

The legislature of at least two of the grain-belt states the past winter passed laws authorizing the use of rural schoolhouses as community centers, for general meetings of all sorts. The campaign to unlock the schoolhouse door and use the hitherto closed building for night meetings of an educational, social or general nature is gaining great headway. The possibilities of the campaign are well set forth in this description of the success of the work in a Kansas community:

Last year two evening meetings were held each week with plays and games in the basement for the upper grade boys, while their elders listened to programs or lectures upstairs. Clair Turner, director of physical training at the normal school, directed the boys on these evenings and he said his principal desire was "to teach them team work—to get along with people."

In the assembly room the evening's programs were varied. Sometimes two of the schoolrooms united in giving a program and the parents were surprised to hear their children speak in public with grace and ease. They admitted they hadn't been in the habit of visiting the school, so they didn't really known what the children were learning. Some evenings there were lectures on subjects of general interest. One night Miss Mary Whitney of the normal talked on woman suffrage and on another occasion Mrs. William Allen White told of the benefits of social centers in other towns.

At some of the meetings, both evening and afternoon, tea was served, and the affairs assumed considerable social importance. Then the women felt the need of plates and cups and assessed each member ten cents with which to buy them. They needed more seating room than the benches of the schoolroom afforded and some of the townspeople outside the Maynard neighborhood gave money to buy 100 chairs. Last fall the women made one of the afternoon meetings a tea towel shower, thus providing for the needs of the dishwashers. Fifty dollars' worth of playground apparatus has been bought.

This year, at the afternoon meetings, the women took up the study of civics to prepare themselves for the ballot. Also the women bring their tatting or other fancy work, and after the lessons they "tat" and visit and compare notes on one another's work. Each afternoon, at the close, there has been half an hour's talk on a question of interest.

The men and the young people have turned out largely to the evening meetings. Some of them have been in the form of literary programs by the school children under the direction of their teachers, and others have been discussions of important questions in which all are interested.

It is of interest to note that this particular campaign was started by a farmer's wife. She had read of the success of the community center idea elsewhere and devoted herself to the work with an enthusiasm which was almost certain to bring results. Farmers' wives elsewhere may profit by her splendid example. There is a great field for work in such a campaign, with hardly a limit to the possibilities of good to be achieved.

THE DIPPING VAT FOR HOGS.

In spite of the fact that some experiment stations continue to give farmers advice about building dipping vats and while it is impossible that this advice is occasionally taken, yet as a matter of fact the dipping tank is considered out of date by the majority of swine breeders. Most of the directions about building dipping tanks are given by men who are not in the least familiar with the difficulties that attend the dipping of a bunch of hogs. Those who have had practical experience know something about the kind of a fight that a hog will put up before he will take a second bath in a dipping tank. Even though convenient yards are constructed and slippery floors utilized the task of giving an ablution to a bunch of hogs is one that most men prefer to shun rather than undertake.

There is an easier way to accomplish the same result. We refer to the plan of rounding up the bunch into a pen or small yard and applying the dip with an ordinary sprinkling can or what is much better, a spray pump. The dousing of 100 hogs or even 200 in this way is about a fifteen-minute chore and it can be done almost as thoroughly as if they are immersed completely below the surface of the dipping mixture.

If the spray pump method is used it is not enough to simply wet the backs of the hogs, but rather keep the good work up until every hair is soaked and saturated and the ground under them thoroughly wet. If they are left in the same yard an hour or two they will wallow around on the slippery floor and bring every part of their bodies into complete contact with the solution. It is not contended that every ailment of a hog can be cured in one spraying, but the task is so simple that there is no reason why the treatment cannot be repeated every two or three weeks at a very small outlay for materials and at a very slight labor expense. Attention might be called to the fact that during very warm weather it is better if the spraying can be done in the shade.

In view of the success that has attended the plan outlined above we would advise those of our readers who are planning on an expensive dipping tank to first make a trial of the method that we have suggested. An investment made in a spray pump will be a good one in more ways than one because it can be used around hen houses, stables and in all kinds of pens.

Special attention should be called to the fact that the ordinary concrete wallow is being used more and more, the dip mixture in this case being kept at just such strength so that it will do the work and yet at the same time not be sufficiently painful in the eyes or ears of the hogs to keep them out of it. Possibly this plan might eventually do almost entirely away with the system of spraying that we have mentioned.

IOWA STALLION REGISTRATION.

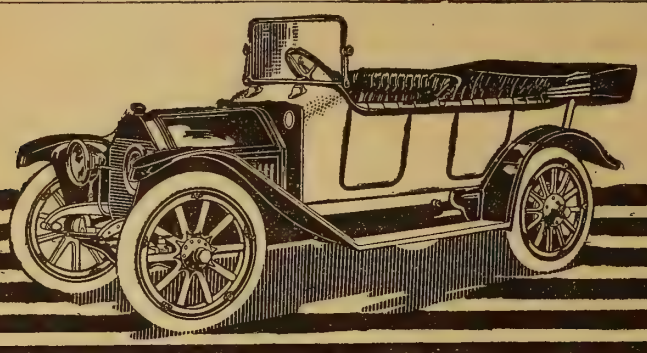
During the year 1912, according to the report of the stallion registration division of the Iowa Department of Agriculture, there were in service in the state 5,679 pure-bred stallions, 2,449 grade stallions, 52 pure-bred jacks and 509 grade jacks. Certificates for 5,915 were issued on statements of veterinarians, and 2,830 on affidavits of owners. Seventy per cent of the stallions of the state are recorded animals. The fees collected by the state for the issuance of certificates amounted to $8,930. Estimating the cost of the veterinarians at an average of $3 the stallion owners have paid to veterinarians the sum of $17,745. Their total outlay because of the stallion law was $26,675.

Sixty-eight stallions were disqualified for public service because of blindness, cataract, coital exanthema, melanosis, periodic ophthalmia, bog spavin or bone spavin. Certificates were issued to 727 animals characterized as unsound. The different causes of unsoundness given were sidebone, roaring, heaves, blindness, ring bone, curb, chorea (St. Vitus dance or like nervous affections) or navicular disease.

In Keokuk county 274 animals were certified, in Delaware county 209, and from that down to twenty-six in Worth county. In Wayne county two-thirds of the horses are grades of unknown ancestry. The Percherons led the breeds with 2,716. There were 766 Belgians, 485 Shires, 464 French Drafts, 321 Clydesdales and 689 Trotters. Others were Cleveland Bays, French Coachers, Oldenburg Coachers, Hackneys, Morgans, Saddlers, Suffolks, Shetlands and Thoroughbreds.

The late sesson of the state legislature made some changes in the law, which went into effect March 20, 1913. One of the changes removes bog spavin from the list of disqualifying diseases and puts into the class of unsoundnesses. Another amendment takes away from the horse owner the privilege of making an affidavit of soundness, and makes a veterinarian's certificate obligatory. A penalty is provided for violation of the law, but no provision is made for enforcement.

Ask your neighbor to subscriber for The Homestead.



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Wool Growers, Beware of the Tariff "Bugaboo"

Don't let this *tariff talk* scare you. Even though the tariff is being revised, you will get a good price for your clip, *provided you sell at the right time.*

To take care of our customers during this season of surprisingly quick-changing prices, we are going to send FREE Special Market Reports *frequently*, from now till September. These Special Reports will be authentic and reliable, being based on our 47 years experience, during which time we have become one of the biggest wool merchants in the world.

By watching our Reports closely, our customers can pick the best time to sell. Last year our customers made an average of 2c to 3c per pound more for their wool by following our advice. *This* year they will profit *even more*, as a result of our Special Reports.

Now, if you have as much as 200 pounds of wool, you can have your name put on our mailing list. You'll get our Special Reports, free, *all through the season.* You won't make the mistake of selling at the *wrong* time, or of selling to some buyer who, on account of the tariff agitation, is afraid to pay you the market price, or will scare you into taking less than the market value.

Remember, we charge nothing for this service. We place you under no obligation whatever. We must print about 50,000 Reports anyhow for our old customers. It's no particular trouble to print a few hundred extra for other wool growers.

Merely send us your name on a postal. Then, every time we get out a Special Market Report you will be remembered. You certainly can't *lose* anything by watching our Reports, and they may be the means of saving you a lot of money—*good, hard coin that rightfully belongs to you.*

This is no season to be selling wool to any old buyer at any old time. GET POSTED. If you send your name on a postal *now*, you'll get some interesting Wool News by return mail. (12)

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CURRENT EVENTS

SECRETARY OF STATE BRYAN spent the greater part of the past week in California, acting as an emissary of President Wilson in an attempt to restrain the California legislature from enacting a land law which is looked upon by Japan not only as unjust but also as an international affront. The secretary spent the greater part of his time in conference with Gov. Hiram Johnson and the legislature, but was unable to swing the California lawmakers around to the president's way of thinking. The Californians demand the right to pass a law which will make it impossible for aliens, "ineligible to citizenship," to own or to lease land for more than one year at a time. Similar laws are in effect in Arizona and Washington, and California demanded the privilege of enacting similar legislation. President Wilson sought to secure one of four things: the postponement of the matter for two years, until a commission can investigate; turning the whole affair over to the federal government, to be settled by diplomacy; a law similar to the one in force in Illinois, permitting aliens to hold land, but not for more than six years; or a law similar to the one in the District of Columbia, applying to all aliens alike. No one of these propositions was wholly favorable to the Californians, many of the leading democrats being willing to let the president settle the matter by diplomacy, but the progressives, headed by Governor Johnson, demanding the right to enact a state law at once to meet the situation. The fact that Japanese immigration is declining, that there are fewer than 50,000 Japanese in a population of 2,400,000 and that the Japs own only about 100,000 acres of land shows that the Californians are inclined to make the land problem appear more serious than it is. Their insistence on legislation may make the situation grave, from a national standpoint, however, the Japanese anti-American feeling being already strong. After repeated conferences the legislature proceeded to enact the desired legislation, Secretary Bryan's trip being a failure, except so far as it impressed Japan that the federal government was doing everything possible to protect Japanese interests.

BY THE time this is read the lower house of congress will probably have passed the Underwood tariff bill, without any important amendment. The entire past week has been devoted to speeches and the introduction of amendments, the republicans waging a hopeless fight to secure changes in the bill recommended by the democratic ways and means committee. The session was enlivened one day by the attack of Representative Murdock, of Kansas, a progressive, on the sincerity of those republicans in the last congress who favored a non-partisan tariff commission. Being called to account for his remarks, he secured corroborating opinions from many of the democratic leaders, Speaker Clark remarking: "My judgment is that there never was a republican leader in this house really in favor of a tariff commission." It will be recalled that President Taft appointed an unofficial tariff commission, to report directly to him instead of to congress, and that he vetoed numerous tariff revision bills on the ground that the tariff board had not yet reported. At that time the republican leaders used the commission idea as an excuse for delaying revision, an action which now makes them the object of attack by progressives and democrats. For the most part, however, the tariff debate of the past week was mild and unimportant, the real work of congress being done in committees. The senate will probably begin wrestling with the tariff bill early next week.

THE Balkan situation looms more ominous. Montenegro seems likely to accede to Austria's demand for the surrender of Scutari, in exchange for which it will receive equally valuable territory elsewhere. But the other three Balkan allies are practically at each other's throats and already reports come of battles between the Greeks, Servians and Bulgarians. It is looked upon as almost certain that as soon as final peace with Turkey is arranged, the Balkan alliance will be broken up and warfare between the Balkan states will ensue. The trouble is that each state demands the lion's share of the spoils of war. Montenegro fired the first shot of the war; the Bulgarians have borne the brunt of the land fighting and captured Adrianople; the Servians have given the other states assistance when most needed and Greece has borne the brunt of the sea fighting. It would seem that all four of the allies were about equally entitled to territory, but the Bulgarians evince a desire to take the lion's share, regardless of right or justice. At the same time, it will be extremely unfortunate if four Christian nations, banded together to drive the Moslem out of Europe, were to fall to fighting and thus present a most un-Christian-like example to their anti-Christian foe. If the Balkan states go to war, it is highly probable that the peace of Europe will be shattered, the big powers being behind the little Balkan states, are envious of one another and of each other's prestige. The situation throughout Europe generally is looked upon as critical.

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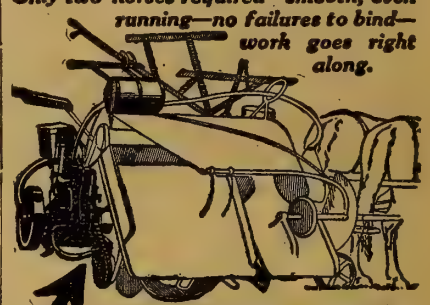

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SECOND HAND BICYCLES—A limited number taken in trade by our Chicago retail stores will be closed out at once, at $3 to $8 each. Descriptive bargain list sent free.

TIRES, COASTER-BRAKE rear wheels, inner tubes, lamps, cyclometers, parts, repairs and parts for all bicycles at **half usual prices.**

DO NOT WAIT—but write today for our *Large Catalogue* beautifully illustrated and containing a great fund of interesting matter and useful information. It only costs a postal to get everything. Address

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Farm Furrows
TURNED BY A PRACTICAL FARMER

Those who raise less than an average crop of any kind should be urged to hump themselves into better methods and no doubt many of them would be willing to get the hump on if they only knew how. Others know how, but knowing how must be backed up with willingness to work in order to bring results.

Don't forget that the solutions that are used in spraying fruit trees and also those that are used in treating seed grain for smut are poisonous and are liable to cause death to persons and animals as well as the things we intend to kill with them. A fool and his life may be soon parted if the fool gets to fooling with poisons.

Choose brood sows from the earliest and largest litters.

Spring house cleaning should include the outbuildings and the lawn, also the back yard. A little paint added to the cleaning will help brighten things up and make the home more homelike.

There is no way of telling just how much forage it will take to carry a bunch of cattle through the winter, because winters are so unlike and even after winter is over, spring keeps us guessing until the last minute as to when we can feel sure that the pastures are able to take care of the stock.

Have clean sand for concrete work, as dirty sand will cause unsatisfactory results.

The difference in the cost of a twenty-six-inch and a thirty-nine-inch woven-wire fence is not enough to make up the difference in the value of the fence after it is built. At least that has been my experience. Animals that cannot be turned by a well-built thirty-nine-inch fence with barbed wire at the top are out of place on the farm.

Keep the young orchard clear of weeds this season and there will be little damage from mice this winter.

This was not an early spring when we figure from the farm-work standpoint. The early ones found the fields very sticky and if they stuck to their work they got their machines pretty well stuck up. Later many of them will find that their crop is nothing to feel stuck up about because no one has ever raised a bumper crop that was "mudded in."

Do you practice regularity in the feeding hour for the hogs?

At the present time most of us are interested in the good roads question because just now a heavy shower makes the average road a thing we all like to stay away from. Reading good roads literature may help some, but taking a spade and ditching the water out of the wheel tracks and opening culverts will help a whole lot.

Begin early to fight the mites with all your might.

Little pigs should be made to take exercise and the sow ought not to be fed on too rich slop for a time. Lack of exercise and the mother sow eating too rich slop is a great combination for the development of thumps.

The high-wheeled planter is a little more tiresome to hop off and onto, but I have a notion that it runs steadier and I am certain it pulls easier.

The man who almost lies down and pulls on the check every time he sets the stake need not expect very straight cross checking. Pulling the wire in the field makes the man on the cultivator "dodge" when crossing the field.

Everyone has his own "best way" of hitching up three and four horses. My way is to drive with but two lines, whether the team be of three or four, but I do not claim that to be the only way. Most ways of hitching up horses are handy simply because the driver is used to that way.

The Company Behind the Cross Country

Look up the rating given The Thomas B. Jeffery Company by the great national commercial agencies. You will find it is the highest that can possibly be given to any concern.

Forty years of manufacturing experience and the result of constant striving toward ideals of accuracy constitute the greatest asset of this company today.

The Boston sales and service building, 640 Commonwealth Ave., Boston, Mass., one of nearly five hundred branches and distributing houses maintained by this company and by Cross Country dealers.

FIFTEEN fundamental facts we offer in conclusion. These are the facts that every buyer must consider if he chooses wisely. Study them carefully and consider their meaning.

1 The 1913 Cross Country is the product of forty years of manufacturing experience.

2 The Jeffery Company has the highest financial rating that it is possible for the commercial agencies to give.

3 Capital three million dollars, all paid in, with a large surplus.

4 The factory is owned practically in its entirety by one man and is absolutely independent of any alliance with any other concern.

5 Every piece of equipment and every particle of real estate owned by this company is paid for in full and never has a bill been allowed to pass discount.

6 Ninety-six per cent of all parts are made in the Jeffery works.

7 Twenty-five thousand Rambler cars are on the road.

8 The Jeffery organization includes a factory manned by two thousand men, with a sales and service force including nearly five hundred branches and distributing dealers.

9 The factory ground area is one hundred and four acres and the floor area twenty-five acres.

10 Cross Country parts sell from one-half to two-thirds less than parts of other cars.

11 Fifteen employes of this company have been in its employ twenty years and over; fifteen from fifteen to twenty years and nearly all the rest from one to fifteen years.

12 The Jeffery Company was the first American company to adopt the demountable wheel, universally used abroad and now being imitated widely in this country.

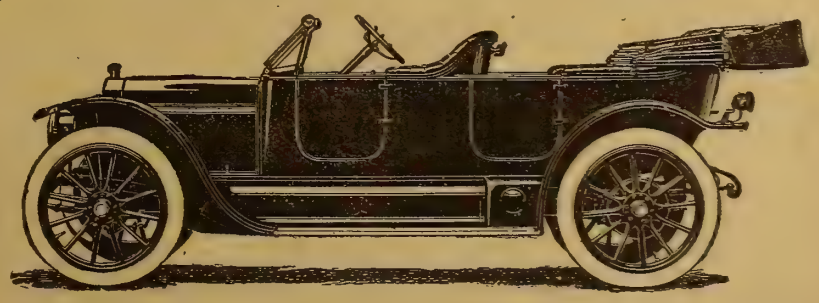
13 The Jeffery service facilities in every part of the United States are under direct company supervision and are unexcelled.

14 The Jeffery organization is an organization of young men, who have built up a reputation for fair dealing which entitles them to expect to be in business for many years.

15 The Jeffery Company is notably conservative, valuing permanent success beyond temporary profit.

The Jeffery organization produces nothing but the Cross Country car. We cannot, in view of the facts enumerated above, do anything else but build it right.

A beautiful four-color reproduction of the Cross Country, from an oil painting by R. Philip Brainard, is ready for mailing. See the Cross Country by all means, at any Jeffery branch or dealer's display room, but send for the picture anyway.



The Cross Country $1,875

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Main Office and Works, Kenosha, Wisconsin

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Rambler Motor Cars

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

SENSE IN CARING FOR CHICKENS.

To the Editor of The Homestead:

After having had several years of experience in raising early chicks I thought perhaps I could help some beginner by a few suggestions. Almost anyone can raise chicks hatched in May, but it takes more care to raise the March hatch.

I have lost lots of chicks with white diarrhea, but I don't believe it is so contagious as is commonly believed. In my opinion getting them too warm in the incubator before and after they are hatched or too warm or too cold in the brooder is the cause. I have lost hen-hatched chicks raised with the hen by their getting too cold on account of not being hovered properly just the same as incubator chicks raised with the hen or in the brooder.

My incubator chicks are now three weeks old and only one of the hatch died, not one cripple, and I believe it is because they were kept the right temperature. I had the brooder warmed and a piece of carpet over the paper that covered the floor. Over this I spread a piece of an old comforter and then a gallon of nice dry sand which had been set behind the stove the evening before to warm—and what a fine place to put baby chicks. As the chicks grow I take out the piece of comforter. The sand was brought in last fall and stored away nice and dry for this very purpose.

Their first feed is bread crumbs. The bread is dry enough to roll into crumbs with the rolling pin and is sprinkled over the sand. This morning after giving them their breakfast of table scraps and old bread soaked in hot milk and sqeezed dry, I housed them in the brooder (as it is cold and snowy) while I swept up the old chaff from the floor anl cleaned up in general. By the time this was done they were yelling to get out and I let them out on the clean bare floor while I went to the barn for clean chaff. How they were screaming when I got back, but as soon as the new chaff is placed in the middle of the floor what a difference! I just had to look at the busy little bodies and listen to their chatter, chatter. They surely enjoy working for their living the way they scratch and grow.

I feed them a commercial chick feed in the chaff and some boiled eggs occasionally. "Tested out eggs" are never given, but good fresh ones. Fresh water is kept before them always by punching some holes near the top of a nice, bright tin can, filling it with water and then placing a saucer over it up side down and turning over quickly so as not to spill the water. This is placed on a block or brick so they won't fill it with chaff.

I sometimes put green sod in the house for them to scratch to pieces when the weather is not fit for them to be out of doors. A shovelful of sod thrown on the floor keeps them busy for a while and it doesn't take them long to pick out the green grass and little white roots.

The brooder should be thoroughly disinfected before putting in the brood chicks. I used my brooder house for cockerels last winter, but it was sprayed with coal oil and carbolic acid, then scrubbed with soap suds and finally with lye water and an old broom. After being thoroughly dry and the window washed, it was ready for my fine brood of chicks.

Adams Co., Ia. Meda Caskey.

TELLS WHY CHICKS DIE

J. C. Reefer, the poultry expert, of 1630a Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable FREE books.

When writing to advertisers please mention The Homestead.

POINTERS.

—G. J. Pfeil, Central City, Iowa, is offering fresh, selected Barred Plymouth Rock eggs from fine, narrow-barred birds, scoring 90 to 92½, at prices named in his advertisement found elsewhere in this department.

—In an advertisement in the Rhode Island Red Department, Verne E. Argo, Tipton, Iowa, offers eggs for hatching from Single Comb Brown Leghorns. Note the extraordinary reasonable prices quoted.

—J. H. Kelly, Altoona, Iowa, advertises Bluff Plymouth Rock eggs. He informs us that he has a fine flock of this breed on large range. His special mating pens have lots, an acre in extent, which makes them equal to range birds for utility. This gives better results than is possible in smaller pens. Attractive prices will be quoted. Send for circular.

—M. E. Edwards, Walnut, Iowa, breeds Rhode Island Reds and is now offering eggs for hatching as will be noted in the advertisement elsewhere. Good sales are reported from this flock as well as the fact that a good supply of fresh eggs are now ready for shipment. Satisfaction is guaranteed. Address inquiries to M. E. Edwards, Walnut, Iowa.

—H. Haas, Lansing, Iowa, is offering some special inducements on Single Comb Brown Leghorn and White Plymouth Rock eggs. His eggs this season have a record of having hatched forty-eight chicks from fifty eggs. He sells eggs at the rate of five cents each and throws in a drinking fountain free with each order for twenty eggs. See advertisement on page 9 and do not delay orders.

—Farmers or others who are in the market to purchase Single Comb White Leghorn eggs for hatching should take note of the advertisement of Eggland Farm, Mt. Vernon, Iowa, which is to be found in the proper department. This farm keeps White Leghorns only of the purest strains and eggs purchased from it may be depended upon to produce the highest class of fowls of the breed.

—Earl Bloom, breeder of Plymouth Rocks and Single Comb Brown Leghorns, advises us under recent date that he has been having a fine trade in eggs, shipping to different states as well as selling to local buyers. He has set a large incubator for his own use so that he will be able to take care of his trade next fall and winter. He has new blood for old customers. See his advertisement and write for any additional information.

—Farmers who want to get started right with Plymouth Rocks should buy eggs from Mrs. H. J. Hess, Waterloo, Iowa, whose advertisement appears in the Barred Plymouth Rock division of this paper. While Mrs. Hess has taken great pains and expended a good deal of money to get standard high-class Plymouth Rocks closely related to those which have been winners at prominent shows, she is offering her customers the benefit of farmers' prices on eggs for hatching. Notice the extraordinary low prices she quotes. The eggs have been hatching extra well and orders can be filled promptly.

—Carl Ehlers, Gretna, Neb., places an advertisement in the proper division of this paper which will be of particular interest to those who admire White Wyandotte chickens. He is offering for sale six late hatched utility breeding pens of White Wyandottes, each consisting of one male and eight laying females and at the price of $8 per pen. He also offers eggs for hatching at half price as will be noted in the advertisement. Mr. Ehlers has been breeding White Wyandottes exclusively for seven years. Every bird he sells carries the White Wyandotte shape, has a rose comb and is in good laying condition. His breeding pens are not related. Write him for further information if required. Address Carl Ehlers, Route 3, Gretna, Neb.

—Wm. Kerr, Winthrop, Iowa, breeds Plymouth Rocks of the Thompson and Bradley strains and offers eggs for sale from both matings of each, as well as matings from the C. H. Latham strain. In a recent note, Mr. Kerr says: "I have had an excellent sale of both stock and eggs this season. All my surplus stock are gone and I had to return $40 worth of orders. The Homestead brought me orders for stock from seven different states and for eggs as far east as New York and south as Arkansas. I am now able to fill all orders promptly with good, fresh eggs that will hatch something fine. My stock is direct from Thompson's, Bradley's and Latham's best matings and are high scoring. I breed for utility purposes as well as for fancy requirements. I have cockerels weighing up to ten and one-half pounds, cocks eleven and three-fourths pounds to twelve pounds, and hens nine to nine and one-half pounds. They have deep blue, distinct markings to the skin and extra big, yellow legs and beaks. While my advertisement has appeared in The Homestead and two poultry papers The Homestead has proven the best of all.

—Mrs. A. O. Adkison, Oakland, Iowa, breeds Single Comb Rhode Island Reds. She writes us that she is having unusual success getting replies every week from the advertisement in The Homestead and pleasing her customers. She has plenty of eggs to sell from good flocks of the breed.

—Mrs. S. Rader, Laurel, Iowa, offers Single Comb Rhode Island Red eggs for sale at remarkably low prices in the advertisement in the proper department of this issue.

RHODE ISLAND REDS.

Rose Comb Rhode Island Reds
EXCLUSIVELY.
EGGS FOR HATCHING
LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City.
Henry G. Walker - Iowa City, Iowa

RHODE ISLAND REDS
SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. EGGS $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

MORRILLVILLE POULTRY FARM
ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

ROSE COMB R. I. REDS
TUTTLE and Bushman eggs. High scoring, prize winning, good laying. Pen 1, 15 eggs $5; 2, farm range, 15, $2; 50, $5; 100, $8. 20% additional eggs furnished on orders booked next 30 days. Write for circular today. W. W. Forbes, Box 441, Jefferson, Ia.

"Allendale" R. C. R. I. Reds
AT 1913 Burlington show, won 1st cockerel, 1st pullet and 2d pen with only five birds exhibited. Mating list free. Eggs for sale. Honest Dealing guaranteed. Mrs. J. H. Allen, New Sharon, Ia.

S. C. Rhode Island Reds
Tompkins strain. Write for descriptive egg circular. Address
P. H. THIEL, Renwick, Humboldt County, Iowa.

RoseCombReds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain; sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R.C. Rhode Island Red Eggs Exhibition and laying strain; 1st pen $5.00 per 15; 2d, $3; 3rd, $1.50. Fertility guaranteed. Red Poultry Farm, Randalia, Iowa.

R.C.RHODE ISLAND REDS
EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

S. C. R. I. Red Eggs from bred-to-lay strains. pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa.

S. C. R. I. REDS—Great layers of large brown eggs; 15,75c., 75, $2.50, Eggs guaranteed fresh. Address Mrs. Henry Queckborner, Chadwick, Ill.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.50 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

EGGS from thoroughbred Reds (either comb) 15, $1; 100, $6. Special pen $2.50 per 15. Laying hens, $1.50 each. Mrs, A. Laun, Riverdale Farm, Floyd, Ia.

For Sale R.C.R.I.Red eggs $1 per setting of 15; $6 per 100. Good farm range. Nettie Amundson, R.1, Box 2, Soldier, Ia.

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

MINORCAS.

EGGS S. C. Black Minorca. Ideal laying strain. Reduced prices till June. 50 or over 5c ea. Less no. price reasonable. C. G. Dake, Epworth, Ia.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific, $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

PHEASANTS.

CHINESE PHEASANTS Eggs from pure-bred birds. Ten eggs for three dollars, packed to carry safely. For information or eggs write T. B. McDonald, Lovilia, Ia.

BABY CHICKS.

Baby Chicks 4 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A, Chatfield, Ohio

WYANDOTTES.

Silver Laced Wyandottes
I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson
Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address Indianola, Iowa.

WHITE WYANDOTTE EGGS
$1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2, unscored, $15 per doz. Ethel H. Shaw, Route 6, Newton, Iowa.

Silver Wyandottes exclusively; show winners; farm range; eggs for hatching, by express, 26, $1.50; 50, $2.25; 100, $4. For eggs by parcel post see our circular, it's free, John A. Johnson, R.2, Pilot Mound, Ia.

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15, $5.00 per 100. Mrs. W. F. Prather, Atlantic, Iowa.

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $1.50 for 15, $5 for 100. R.S.Tennyson, Clarksville, Ia.

FOR SALE. Late hatch utility W. Wydt. breeding pens. Male and 8 young laying females, $8. For hatching, 50 eggs, $2.50. Carl Ehlers, R.3, Gretna, Neb.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs, $1 per 15; $2.50 per 50. W. H. Ilsley, Milo, Ia.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble. Mrs. M.C. Humphrey, Derby, Ia.

WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

R. C. White Wyandotte eggs, Duston strain; S. C. Buff Orpington, Martz and Adams strains, eggs $1.50 for 15. Address William Sommer, Perry, Ill.

PARTRIDGE Wyandotte eggs from high-scoring birds, hens up to 93¾, ckl. 94¾; pen 1, $2.13; pen 2, $1.50, 12. Circular. Edw. Meyer, Dyersville, Iowa.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address E. S. DYAS, Bellevue, Iowa.

FOR SALE White Wyandotte eggs for setting, $2.00 for 15. $5.00 for 100. Address Jas. W. Grinstead, Jr., Mitchellville, Iowa.

SILVER LACED WYANDOTTE EGGS
15, $1; 30, $1.50; 100, $4. Miss Julia Driscoll, Plainfield, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices, R. B. Rowe, Indianola, Ia.

White Wyandottes Exclusively. Scores from 92¾ to 95, chalk white, will please; $5 per 100; $1.50 for 15. Mrs. F. O. Elliott, Kent, Iowa

EGGS from extra choice, large, vigorous, pure White Wyandottes, farm range. $1, 15; $5, 100; special pen, $2 per 15. Mrs. Geo. Roe, Bellevue, Ia.

PARTRIDGE Wyandotte Eggs from high-scoring birds, winners of many large shows, prices right. A few extra pullets. Good Bros., Montezuma, Ia.

PARTRIDGE WYANDOTTE EGGS. Fancy Buff Wyandottes. Order now. Thos. L. Morlan, Indianola, Iowa.

FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

WHITE WYANDOTTE EGGS
$4 per 100, $1 per 15. Mrs. Geo. W. Johnston, Kent, Ia.

WHITE WYANDOTTE eggs for hatching from farm range, $4 per 100; 75c per 15; satisfaction guaranteed. Mrs. J. W. Kiesling, R.2, Cromwell, Ia.

White Wyandotte Eggs Pure-bred, free range, vigorous stock; $1.50 per 15, $5 per 100. Mrs. Eva G. McCoy, Prairie City, Ia.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

White and Silver Laced Wyandotte Eggs, 15 for $1 100 for $5
Address Malmberg Bros., Route 4, Red Oak, Iowa.

WHITE WYANDOTTES EXCLUSIVELY
EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

BRAHMAS.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine large, thrifty birds, farm range. Eggs, 13, $5c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100 Write at once to Mrs. J. M. Dries, Ashton, Iowa

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa.

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.

REDS 75 cents per 15 or $4 per 100. Pen No. 1, $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Address, mentioning The Homestead,
J. B. HEISEL, - Grinnell, Iowa.

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15; pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also F. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address **E. L. DICKERSON, Ragan, Nebraska.**

S. C. RHODE ISLAND REDS

RANGE of 300 full blood birds. Eggs $5 per 100. Express prepaid. Shipped in folding egg cases. No broken eggs. One exhibition pen, either comb. $2 per 15, laying hens, $1.50 each. Address
F. O. MARTIN, - - FLOYD, IOWA

SINGLE COMB RHODE ISLAND REDS

4 Grand pens headed by 2d and 4th ckls. Dubuque; 1st and 4th ckls. Oelwein; heavy laying strain; eggs $1.50 and $3 per 15. Send for mating list. Address **C. E. Hayes, Box A, Lamont, Iowa.**

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

SPECIAL offer to all new customers ordering eggs from our S. C. Reds during May. Eggs, $1 to $5 per 15; $5 per 100. Free mating list. J. A. Holmes, Steamboat Rock, Ia.

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30.
C. H. North, R. D. 2, New Hartford, Iowa.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains, Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

DEEP Red R. C. R. I. Red eggs for hatching. Pen No. 1, $2 per 15; pen No. 2, $1.25; utility stock, 75c per 15, $4 per 100. Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. R. Choice exhibition and breeding stock. Am now booking orders for eggs, baby chicks. Send for catalog. Mrs. A. L. Morrill, Pontoosuc, Ill.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. **C. F. BATTELS, Indianola, Iowa.**

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address George Hunt, Earlville, Iowa

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1 per 15; $4 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

S. C. R. I. REDS Eggs 75 cents per setting, $4.00 per hundred. Address Mrs. A. O. Adkison, Oakland, Iowa.

TOP notch S. C. R. I. Reds. Two good matings. Eggs $1.00 and $1.50 per 15. Good range flock $4.00 per 100. W. E. Briggs, R. 2, Woodbine, Iowa.

S. C. R. I. RED Eggs from large, red, cup-winning stock, $5, 100; $1, 15; pen $2, 15. Address Mrs. Fred Miller, Adair, Iowa.

S. C. R. I. R. EGGS $1.00 per 15 and 75 cents per 15. From cockerel dark red, no smut, weight 8 lbs. Scores 92¾. Address W. I. PRICE, Ira, Iowa.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

R. C. R. I. Reds. Eggs from DeGraff strain, dark reds, low combs. Pen 1, $2 per 15; pen 2, $1 per 15. Frank B. Coldren, Clarksville, Ia.

Rose Comb R. I. Red eggs, 15, $1. 30, $1.85, 100, $5.00. Address J. Nissen, Meservey, Cerro Gordo County, Iowa.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

Single Comb R. I. Red Eggs for Sale

15 for $1; 100 for $5. Address J. C. Porter, Ogden, Ia.

S. C. Rhode Island Red Eggs for hatching. Farm range, $1.50 for 15 or $8 for 100. Mrs. W. R. Watson, Oakland, Iowa.

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

THOROUGHBRED R. C. R. I. Red eggs; pen 1, 15 for $1.50, 30 for $2.75; pen 2, 100, $4.75; 45, $2.50. Mrs. E. C. Powers, Osage, Ia.

EGGS—S.C., R. C. R. I. Red & Kellerstrass, Crystal White Orps., $1 per sitting. Prize-winning pens, $3 to $10 per sitting. Mrs. T. A. Gough, Bristow, Ia.

SINGLE Comb Rhode Island Reds exclusively. Fine breeding, vigorous farm-raised stock, eggs for hatching, 15, $1; 100, $5. R. H. Ortman, Bancroft, Ia.

S. C. R. I. RED EGGS $1.50 per 15, single setting only, from one choice pen, cock scores 91½. **C. W. Kellogg, Rockwell City, Iowa.**

S. C. R. I. Reds Exclusively from prize-winners, $5 per 105, $1 per 17
Address I. C. WELCH, - BEDFORD, IOWA

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

DOGS.

SCOTCH COLLIES

POSITIVELY as good breeding and as good individuals as money will buy. Descended from the very best imported stock. Males $7 to $10. Females $5 to $7.50. Address **A. A. MARTIN & SON, Route 4, Box 107, LINCOLN, NEBRASKA.**

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

FOX TERRIER PUPPIES Also a few choice females, open or bred. Extra select stock. Address **N. R. Rogers, Peru, Nebraska.**

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

GEESE.

Toulouse Geese Eggs From old matings, 25c ea. From younger matings, 20c ea. Send cash with order. Save delay. Satisfaction guaranteed. H. B. Francisco, Hastings, Neb.

WANTED. Eggs of Toulouse, Embden, G. African geese, Pekin ducks, B., W. Holland, Bourbon Red turkeys. State lowest price. Bx 613, Mankato, Minn.

S. S. HAMBURGS.

S. S. HAMBURG EGGS FOR HATCHING
Address **H. C. SCHRAGE, BRISTOW, IOWA.**

PLYMOUTH ROCKS.

B. P. Rock Eggs for Hatching

FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price. 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

Barred P. Rock Eggs for Sale

FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92½; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. **J. W. Wagner, Monroe, Iowa**

White P. Rock Eggs and Baby Chicks from high-scoring, prize-winning stock. Fishel strain. Free range. Eggs 15, $1; 100, $4.00. Chicks, 10 cents each. Address **L. A. CRULL, Route 2, Muscatine, Iowa.**

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

Buff Plymouth Rock Eggs

FROM a pure-bred and excellent laying strain. 15 eggs, $1.50. Mrs. Lee Ruggles, Birmingham, Ia.

BRADLEY BARRED ROCK

EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia.

WHITE P. ROCK EGGS From very best selected stock, $1 per 15, $2 per 30 and $5 per 100. Send cash with order. Satisfaction guaranteed. H. B. Francisco, Hastings, Neb.

B. P. R. Eggs (Easton, Shellabarger, Bradley Bros. strains), 15 for $1, 100 for $5.00. Toulouse geese eggs 50 cents each. Address James Cockerton, Whiting, Iowa.

B. PLYMOUTH ROCK EGGS, 30 FOR $1.00
100 EGGS, $3.00. M. B. turkey eggs, 13 for $3.00. Toulouse Geese eggs, $3.00 for 10. Address
MRS. ROBT. HUNT, EARLVILLE, IOWA

Eggs For Hatching from large, high-scoring extra good laying strain. Shipped in first-class shape. Prices reasonable. Address
Mrs. E. S. Wolcott, Richland, Iowa.

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose, Ia.

BARRED Rocks, O. K. strain. Eggs from utility flock $5 per 100. Five special matings. Circular free. Mrs. Minnie McConaughy, Martelle, Iowa.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.25 per 15; $5 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

W. P. Rock Eggs for Hatching from high-scoring stock, $1.00 per setting. Order now. Moncrief Bros., Center Junction, Ia.

PRIZE-WINNING White Plymouth Rocks, fine, large, farm raised. Eggs, $1.00 per 15, $4.00 per 100. Address Mrs. Jas. Pedley, Route 3, Britt, Iowa.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

White Rocks White View Farm, Fishel strain. Eggs $1.50 for 30, $2.25 for 50, $4 for 100. Address Mss. C. E. Pugh, Menlo, Iowa.

B. P. ROCK EGGS, winners at Independence; show pen, $2, 15; Utility, $1, 15; $4, 100; I. R. ducks, 15, $1. A. E. Muxlow, Independence, Iowa.

W. P. R. Exclusively. Carefully selected stock. Eggs $1.25 per 30 or $3.50 per 100. Address Mrs. W. S. Huber, Tipton, Iowa.

White Rock Eggs Selected and guaranteed. Write for prices. Address Mrs. Myrtle Carter, Panora, Iowa.

WHITE P. Rocks, S. C. R. I. Reds. 15 Eggs parcel post $1.75. Express $1.50. Safe delivery and fertility guaranteed. Mrs. G. W. Alberts, Leigh, Neb.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet, Earlville, Ia.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4; Address **O. N. Woody, Route 3, Newton, Ia.**

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

For Sale Eggs from prize-winning Barred Rocks at a reasonable price. Write Wm. H. Laipple, Geneva, Iowa.

PLYMOUTH ROCKS.

WHITE PLYMOUTH ROCKS AND WHITE PEKIN DUCKS

CHOICE flock of White Rock pullets mated to cocks scoring up to 92 points. Eggs $1.50 per 15; $2.25 per 30; $3 per 45; $7 per 100. My pen is headed by a ckl. scoring 93 points and winner of 2d prize at Wisconsin Poultry Assn. Mated to him are 9 hens weighing 10 lbs. ea. Eggs $3.00 per 15; $5.00 per 30. Extra good flock of ducks headed by drakes which were sired by fowls scoring 97 points. Eggs $1.50 per 11; $2.00 per 22; $4.00 per 50. Fair hatch guaranteed or eggs replaced at half price. Send for circular. **John W. Housolog, Bellevue, Iowa.**

HAWKINS - BRADLEY - THOMPSON

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S. C. W. LEGHORNS CHALK WHITE, six firsts at Des Moines, 1912. Eggs and baby chicks. Write your wants. J. M. Williamson, R. 1, Des Moines, Iowa.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93½. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs. Will Michael, Selma, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Eggs at half price. Write for circulars. Address R. S. Ketcham, Box H, Boonville, Indiana.

S. C. W. Leghorns, Young's strain, pens one and two, $2.50 for 15; other pens, $5 per 100. Express prepaid. Send today for free circular. Address Chas. J. Mackey, Box 523, West Liberty, Iowa

EGGS THAT WILL HATCH From pure-bred farm-raised S. C. Brown Leghorns and R. C. Rhode Island Reds, 15, $1 A. B. JORDAN, - Moravia, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

RoseCombBrownLeghorns 20 eggs $1; 50, $2; 100 $3.50. 18 yrs.' experience. Orders filled promptly. Ella Tharp, Mt. Sterling, Iowa.

REDUCED S. C. W. Leghorn eggs. Young's, 100, $4; 100 including 15 eggs from pen 2, $4.50; chicks, $10, 100 after June 1. Mrs. Wilson McIntyre, Red Oak, Ia.

EGGLAND EGG FARM. Single Comb White Leghorns, bred to lay. Eggs, $1 per 15, $4 per 100. Address Eggland Farm. Mt. Vernon, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

R. C. W. Leghorn Eggs, $1 for 15, $1.50 for 30, $4 for 100. From prize-winning stock. Ben R. Poortinga, Cordova, Iowa,

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

PURE S. C. B. Leghorn eggs from farm flock, $3 per 100. Twenty years a breeder of the Leghorn exclusively. C. V. Douglas, Tecumseh, Nebraska.

S.C.BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S.C.B.LeghornEggs 75c per 15. $3.50 per 100. Baby chicks $12 per 100, farm range. Address Mrs. B. M. Painter, Lewis, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. Mrs. B. C. Marts, Hampton, Iowa.

LEGHORNS Extra white, Rose Comb, winter layers; eggs 15, $1; 100, $5.00, postpaid. J. W. Osborn, Hanlontown, Iowa.

Eggs For Hatching S. C. White Leghorns exclusively, 15 for 75c, 30 for $1.25, 100 for $3.00. Address Gilford Pitcher, Earlville, Ia.

R.C.B.LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. George E. Banton - - - Epworth, Iowa.

S.C.Brown Leghorn Eggs from scored farm range stock. 50 for $2.00, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Iowa.

SINGLE COMB WHITE LEGHORN EGGS Pen 1, 15, $5; pen 2, 15, $1.50; 100, $4. W. W. PERRY, NEW HARTFORD, IOWA.

SINGLE Comb Brown Leghorn eggs from silver cup winners. Fawn and White Indian Runner ducks. Write. Mrs. Clyde Nelson, Birmingham, Ia.

R. C. Brown Leghorn Eggs for hatching. Farm range. Males from high-scoring stock. 15, 75c; 100, $3.50. Mrs. Nelson Hyde, Manson, Ia.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points, 75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

LAYING strain R. C. Brown Leghorns. Bred for winter laying. High-class stock. Eggs, $1 for 15; $4 per 100. Address Geo. N. Urice, Vinton, Ia.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - - Fostoria, Iowa.

EGGS for sale from vigorous, farm-raised S. C. W. Leghorns, $1 per 15, $6 per 100. Parcel post or express prepaid. Address A. R. Cochran, Anita, Ia.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock, $2 per 60, $3 per 100. Mrs. Chas. Lasley, Floris, Ia.

R. C. W. Leghorn Eggs from stock scoring to 94½, 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

S.C.BrownLeghorns 30 eggs $1.00; $2.75 per 100. NELLIE CAHOW, GREENFIELD, IOWA

LEGHORNS.

ROSE COMB BROWN LEGHORNS, large, vigorous stock, strictly pure bred, have true Leghorn type, from best strains of layers known to breed. Eggs high fertility, carefully packed, 15, $1; 50, $2.25; 100, $4. Write Geo. Boyce, R. 3, Newell, Ia.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

S. C. W. Leghorn Eggs for hatching, 5c ea. Will prepay express on all lots over 50. Baby chicks 10c ea. White Feather Poultry Farm, H. L. Darby, Prop., Hazleton, Iowa.

EGGS---ANY NUMBER S. C. White Leghorns. Great layers and winners. Choice yards and farm flock. As good as grow. Free catalog. Mary Culver, R 1. King City, Missouri.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $3, 100. I. R. D. eggs $1.25 per setting or $4.50 per 100. Farm range $3.50 per 100. Mrs. G. W. Brockway, Clarksville, Ia.

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S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1.50; 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

SINGLE COMB BUFF LEGHORNS EXCLUSIVELY Eggs, $3.50 per 100. Chas. F. James, Lockridge, Ia.

R. C. Brown Leghorns Pure bred, 12 years, fine birds. Eggs $3 per 100; over that, 30c per dozen. Mrs. Laura Mathes, Clarksville, Ia.

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Dripps Has Fine Poultry

WHITE ROCKS Fishel strain. Eggs from show birds 13, $5.
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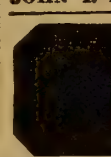

CHICKS 10c; DUCKS 20c UP Eggs Reasonable IN hundred lots. See free circular. White Leghorns, Barred Rocks, Light Fawn, also English Penciled Runners. White eggers. Winners 16 best ribbons Burlington, Galesburg, R. O. Dickson, Premium Poultry Farm, Box 30, LaHarpe, Illinois.

EGGS FOR HATCHING
WHITE Langshan and Rock chickens, $1 per 15, $5 per 100. Embden and China geese, $2.50 per 10. Mammoth Pekin and Muscovy ducks, $1.50 per 13. Address
Mrs. J. F. Stolley, Granville, Sioux Co., Ia.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

BARGAIN PRICES EGGS S. C. R. I. REDS, $4 per 100; utility flock, special pens now half price, pens 1 or 2, $2.50 per 15, $4.50 per 30; pens 3 or 4, $1.50 per 15, $2.50 per 30; pens 5 or 6, $1 per 15. Address, mentioning Homestead, L. G. Johnson, Box 4, Steamboat Rock, Ia.

48 CHICKS FROM 50 EGGS BIG incubator hatch, good stock, big layers at reduced prices. S. C. Brown Leghorns, White Plymouth Rocks. Drinking fountain free with 20 eggs. 5 cents per egg; also baby chicks. Address H. HASS, LANSING, IOWA.

EGGS---BARRED ROCKS. BRONZE TURKEYS---EGGS BARRED ROCKS, special matings. 15 eggs $2; 30 eggs $3.75; 45 eggs $5. These pens are headed by 9¾ and 10¾ pound ckls. Eggs from farm range flocks $1.50 per 30; $4 per 100. I. R. duck eggs $1.50 per sitting 15; $7.50 per 100. M. V. Leeper, Redfield, Iowa

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

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EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. A. J. Arends, Blairsburg, Iowa.

EGGS Barred, White, Buff Rocks, R. I. Reds, W. Wyandottes, B. Langshans, L. Brahmas, B. Orpingtons and Leghorns. $1.25 per 15; $5 per 100. Toulouse geese $1.75 per 10. White and Bronze turkeys $2 per 7. Monroe Poultry Yards, Monroe, Ia.

100 RIBBONS WON IN 1912. Egg for hatching from these show birds. S. C. R. I. Reds and S. C. Brown Leghorns at $1.50 per setting, or $5 per 100. Verne E. Argo, Tipton, Iowa.

EGGS Barred Wh. Buff and Partridge P. Rock. Buff Orpington, White Wyandotte, S. C. R. I. Reds, and Mammoth Bronze turkeys. Free catalog. Address A. D. Murphy & Son, Essex, Iowa.

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EGGS for hatching—White Faced Black Spanish, Silver Spangled Hamburgs, R. C. White Orpingtons, Rhode Island Whites, I. R Ducks. Address SARAH LOWE, Clarksville, Ia

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BLACK Langshans, Indian Runner Ducks. Eggs $1 per 15 or $5 per 100. Satisfaction guaranteed. Circular free. Bert A. Randell, Mt. Zion, Ia.

EGGS. Matings E. B. Thompson Imperial Ringlets at $3, 15; W. Rocks, S. S. Hamburgs, $2. 15. Embden geese eggs 20c ea. Mrs. H. E. Brown, Corning, Ia.

EGGS From M. B. pullets and 26-lb. hens, Orpingtons, Hamburgs, Brahmas, all guaranteed to hatch. Address Steve L. Morlan, Piano, Iowa.

NEWS OF THE SALE RING

Russell's Holstein Sale.

One hundred and ninety-three head of Holstein-Friesian cows and heifers were sold May 1st and 2d at Idle Hour Place Farm, Geneva, Ohio, by T. H. Russell, for $58,580, or an average of $303.50. This is a record unequaled by any other breeder of either beef or dairy cattle, numbers considered. There is reason for the result, however. Mr. Russell is easily the big Holstein breeder of the country. He carries on his operations on a large scale. He tells his story to the public in a big way and in a manner out of the ordinary. There are very few, if any other, herds of any breed from which a draft of 200 head could be selected and sent into the ring, every one guranteed without a blemish. That is what Mr. Russell did. He advertised 200 head, but there were a few head which had not done well since they were cataloged, and they were not presented. Buyers and bidders were on hand from Washington, Oregon, South Dakota, Iowa, Illinois, Wisconsin, Michigan, Indiana, Ohio, Pennsylvania and New York, while there were mail bids from half a dozen other states. Values rated very even, the top of the sale being $605, paid by Benjamin Laxley, Jr., Covington, Ohio, for the eight-year-old 220-pound cow Lady Burton Hengerveld De Kol. F. H. Powell, Cochranton, Pa., paid $600 for the two-year-old daughter of Count Cornucopia Korndyke, Countess Pearl of Lake Lawn. The largest individual buyer was John F. Janssen, Seattle, Wash., who secured forty head of the top things in the sale. Mr. Janssen is the largest dealer in Holstein cattle on the coast and his selections at the Russell sale will form the best lot of cattle of this breed that he ever gave to the Pacific country. Weichman Bros., Center, Wis., were liberal buyers, taking thirty-six head of good ones, and R. M. Roberts, South Charleston, Ohio, purchased twenty-four head. This sale also marked the advent into Holstein circles of Thos. Johnson, Columbus, Ohio, formerly a prominent Short-horn breeder. Mr. Johnson secured eleven head of the best cows at conservative prices. Frank Horton, Fennimore, Wis., secured six good ones. The value of great sires was demonstrated in the sale by the eagerness of those present to secure the daughters of Pontiac Hengerveld Parthenea and Count Cornucopia Korndyke, two of the great bulls at Idle Hour Place Farm. There was nothing overlooked that would add to the success of the sale. Every man was the guest of Mr. Russell from the time he arrived until he left and right well was he cared for. Thursday evening Mr. Russell gave a dinner at the hotel to the visiting stockmen. At its conclusion he introduced Col. Carey M. Jones as the toastmaster of the evening, a position he filled with much credit, and brief talks were made by many gentlemen. Mr. Russell is to be congratulated on the great success of his sale. He fulfilled every promise he had made, gained new friends by the high-class, honorable manner of doing business and gave added evidence that Idle Hour Place Farm is Holstein headquarters. The adherents of this great dairy herd should feel honored that such an establishment with such a progressive and honorable gentleman at its head is engaged in furthering the interests of the Holstein. The sale details were carefully handled by S. T. Wood, manager of the Holstein Breeder Company, and one of the best posted experts in the country. Cols. Carey M. Jones, D. L. Perry, B. V. Kelly and C. W. Canfield were the auctioneers, and the following is a detailed list of the 193 females sold, no bulls being cataloged or offered:

Grandeur Dot Pontiac calved 1911; B. E. Totten, Kipman, Ohio....$220
Natalie Lyons De Kol 2d, calved 1912; R. M. Roberts, So. Charleston, Ill. 150
Idle Hour Grandeur, calved 1912; Geo. J. Frazier, Jr., Villa Grove, Ill. 200
Daisy Korndyke De Kol Pontiac, calved 1910; L. J. Weaver, Corry, Pa. 270
Hartog Copia Pontiac, calved 1911; John F. Janssen, Seattle, Wash. 200
Vashti De Kol, calved 1913; B. E. Totten.... 140
Blanche Medine Clothilde 2d, calved 1913; B. E. Totten..... 145
Colanthe Echo, calved 1912; R. M. Roberts.. 150
Homeland Pontiac Korndyke, calved 1908; R. M. Roberts 430
Aaggie Netherland Paul Beets, calved 1912; Cyrus Rimer, Detroit, Mich. 215
Princess Prague Paul Beets, calved 1912; Wm. C. Fink, Edinburg, Ind. 210
Cornucopia Ramona Flora, calved 1911; Ross Wetzel, Cochranton, Pa. 305
Pledge Monarch Cornucopia, calved 1909; Thos Johnson, Columbus, Ohio 485
Johanna Rag Apple, calved 1911; Thos. Johnson 295
Starlight Apple, calved 1911; Thos. Johnson 400
May Como Rag Apple, calved 1911; F. S. Thompson, Hudson, Ohio.. 300
Leona Rag Apple, calved 1911; Frank Horton, Fennimore, Wis.. 335
Bertha Rag Apple, calved 1912, Thos. B. Buell, Union City, Mich. 250
Silica Rag Apple, calved 1911; C. E. Bishop, Peninsula, Ohio..... 300
Kol Hengerveld Artic, calved 1912; John F. Janssen..... 400
Lily Beets Parthenea, calved 1912; George Frazier, Jr. 245
De Kol Maplecroft Canary 3d, calved 1912; John F. Janssen..... 295
Lily Parthenea Pontiac calved 1912; R. M. Roberts..... 270
Princess Korndyke Hengerveld, calved 1912; John F. Janssen.... 275
Homeland Pontiac Friend, calved 1909; Weichman Bros., Belle Center, Mo. 500
Clothilde Pontiac 2d, calved 1911; Frank Horton 315
Peconic Lady Hengerveld, calved 1912; John F. Janssen..... 365
Nansena Hengerveld Inka, calved 1912; Ross Wetzel,..... 280
Lily Korndyke Hengerveld, calved 1912; Frank Horton..... 280
Nazli Pauline Korndyke, calved 1910; K. S. Wilson, Kensington, Ohio 425
Nazli Pauline Mercedes 2d, calved 1911; John F. Janssen..... 375
Julip Beauty Korndyke, calved 1910; John F. Janssen..... 350
Julip Beauty 2d, calved 1911; John J. Janssen 305
Lake Lawn Beauty Korndyke, calved 1912; Thos. B. Buell..... 175
Louise Mercedes Korndyke, calved 1911; Ross Wetzel..... 355
Jacoba Choicest Mercedes, calved 1911; John F. Janssen..... 355
Julip Twisk Korndyke, calved 1910; Weichman Bros.,..... 400
Countess Pearl of Lake Lawn, calved 1910; F. H. Lowell, Cochranton, Pa. 600
Una Mercedes Korndyke, calved 1911; R. M. Roberts 305
Spring Valley Hengerveld Korndyke, calved 1912; R. M. Roberts 275
Countess Cornucopia Pet, calved 1913; J. E. Ropp, Scapoose, Ore. 150
Diana Johanna Korndyke, calved 1912; John F. Janssen..... 295
Segis Topsy Tellus, calved 1910; K. S. Wilson..... 510
Heifer calf, calved 1913; K. S. Wilson 160
Segis Hengerveld Mutual De Kol calved 1911; L. J. Weaver..... 240
Jacoba Korndyke Hengerveld, calved 1913; R. J. Christian, Genoa, Ohio 155
Prilly Walker De Kol, calved 1910; R. M. Roberts..... 425
Caddy Fitch Prilly, calved 1910; R. M. Roberts 460
Beauty Hengerveld Veeman, calved 1911; R. M. Roberts..... 245
Flora Pet 4th, calved 1911; Weichman Bros. 300
Pauline Burke De Kol Artis, calved 1907; Lawrence Paumier, Louisville, Ohio 320
Bonanza Hengerveld, calved 1909; Thos. Johnson 400
Angie Mechthilde Piertertje, calved 1909; Sam Warren, North Benton Ohio 300
Sita Artis Burke, calved 1909; Wiechman Bros. 275
Goshen Stellaris Pontiac, calved 1911; C. F. Hunt, Oran, N. Y.... 410
Goshen Hengerveld, calved 1910; Weichman Bros. 350
Olga Korndyke, calved 1911; John F. Janssen 350
Olga Mercedes Korndyke, calved 1911; R. M. Roberts..... 205
Julip Johanna 2d, calved 1912; R. M. Roberts 280
Lake Lawn Johanna Korndyke, calved 1913; Sam Warren..... 300
Lilith De Kol Count Cornucopia, calved 1910; R. M. Roberts..... 165
Lilith De Kol Count Korndyke, calved 1911; John F. Janssen.... 265
Lilith De Kol Count Julia 2d, calved 1912; R. M. Roberts..... 295
Countess Cornucopia Lilith, calved 1913; R. M. Roberts..... 165
Lady View Clothilde Korndyke, calved 1912; R. M. Roberts..... 240
Lake View De Kol Korndyke, calved 1912; John F. Janssen..... 280
Lake View Minnie Korndyke, calved 1912; John F. Janssen..... 250
Spring Valley Vale Korndyke, calved 1912; John F. Janssen..... 235
Princess Alberta Korndyke, calved 1912; Thos B. Buell..... 250
Clothilde Burke Korndyke, calved 1913; G. A. Wright, Bellevue, Ohio 175
The Duchess Beauty 2d, calved 1912, M. L. Watt, Lima, Ohio.. 250
Pride Hengerveld Pondtke, calved 1911; John F. Janssen 205
Hengerveld Pondtke Dimple, calved 1911; J. E. Ropp..... 220
Leona Lunacy Segalties, calved 1912; D. H. Warfel, Orrville, Ohio 325
Clapp Beauty 3d, calved 1912; M. H. Hill, Davenport, Iowa..... 435
Elizabeth Pontiac, calved 1912; M. H. Hill 435
Lady Burton Hengerveld De Kol 2d, calved 1912; M. H. Hill..... 435
Volusia Mutual De Kol 3d, calved 1912; M. H. Hill..... 435
Maplehurst Fraulein De Kol, calved 1906; Frank Horton..... 200
Maplehurst Bonita, calved 1908; Thos. Johnson 245
Crown Prince Segis Alberta, calved 1910; Indoe & Hatch, Medina, Ohio 320
Crown Prince Segis Leafty Maid, 1911; John F. Janssen..... 460
calved 1912; Thos. B. Buell..... 185
Crown Prince Segis Concordia, calved 1911; W. C. Kerman, Akron, Ohio 520
Crown Prince Segis Eva, calved 1912; John F. Janssen..... 225
Crown Prince Segis Cornucopia, calved 1913; Iowana Farms, Davenport, Iowa 220
Countess Beauty Korndyke, calved
Louise Zozo Korndyke, calved 1911; John F. Janssen..... 360
Lady Louise Korndyke, calved 1912; John F. Janssen..... 305
Countess Louise Korndyke, calved 1911; John F. Janssen..... 310
Heeringa Mercedes Korndyke, calved 1912; John F. Janssen..... 285
Countess Jacoba Korndyke, calved 1911; John F. Janssen..... 405
Countess Romula Korndyke, calved 1910; John F. Janssen..... 400
Lady Olga Johanna Korndyke, calved 1911; John F. Janssen.... 280
Jacoba Mercedes Korndyke, calved 1911; John F. Janssen..... 375
Countess Olga Korndyke, calved 1911; John F. Janssen..... 300
Countess Twisk Korndyke, calved 1912; John F. Janssen..... 360
Perfection Korndyke, calved 1911; John F. Janssen..... 325
Perfection Twisk Korndyke, calved 1910; Frank Horton..... 500
Whitesboro Korndyke, calved 1911; John F. Janssen..... 360
Austinburg Uno, calved 1909; Weichman Bros. 275
Olive Seer Clothilde, calved 1905; Thos. Johnson 425
Maud Woodcrest Clothilde, calved 1911; F. M. Watt..... 350
Clothilde Woodcrest Crescent calved 1912; S. W. Kelner, Lagrange, Ohio 250
Pauline Deury Fidessa, calved 1910; Weichman Bros. 310
Pauline Woodcrest Maid, calved 1912; Cyrus Rimer..... 275
Bulu Princess Maid, calved 1912; Sigrist & Aebersold, New Philadelphia, Ohio 260
Topsy Pauline Cornucopia, calved 1909; Ross Wetzel..... 400
Topsy Pauline Masterpiece, calved 1912; R. M. Roberts..... 200
Doede De Kol, calved 1903; Weichman Bros. 425
Starlight Burke, calved 1904; Weichman Bros. 370
Maplehurst Pietertje Lena, calved 1904; Weichman Bros..... 500
Lady Burton Hengerveld De Kol, 1904; Laxley, Jr., Covington, Ohio 605
Prilly Pontiac Korndyke, calved 1912; S. Curth, Nankin, Ohio.... 220
Wipacar Lyons, calved 1911; L. S. Reichenbach, Apple Creek, Ohio. 300
Luit Butter Girl Korndyke, calved 1910; Frank Horton..... 385
Johanna Hartje De Kol, calved 1905; Weichman Bros..... 500
Jennie Bellewood, calved 1906; Weichman Bros. 230
Butter Girl Beauty, calved 1905; S. Humphrey, East Rochester, Ohio 400
Hatress Gerster 3d De Kol, calved 1909; Sam Warren..... 290
Crescent De Kol, calved 1910; Sigrist & Aebersold..... 355
Meadow Brook Pietertje Beauty 2d, calved 1907; A. Hurst, Orrville, Ohio 270
Goshen Mattie Korndyke, calved 1909; R. G. Helmick, Barberton, Ohio 310
Barternah Pet 2d, calved 1911; Weichman Bros. 400
Empress Ormsby Korndyke, calved 1911; John F. Jassen..... 400
Jolie Johanna De Kol Onyx, calved 1904; Thos. Johnson..... 505
Irene Pontiac, calved 1912; John F. Janssen 155
Pearl Unadilla 2d, calved 1912; R. M. Roberts 200
Klirterp Beauty, calved 1912; R. M. Roberts 210
Beauty Cornucopia Korndyke, calved 1910; Henry Walldorf, Dunkirk, N. Y..... 290
Klerterp Beauty Korndyke, calved 1912; K. S. Wilson..... 175
Ellen Veeman Korndyke, calved 1912; R. M Roberts..... 185
Lady View Cornucopia Korndyke, calved 1912; R. M. Roberts..... 300
Frenesta Creole Queen 3d, calved 1907; R. M. Roberts..... 285
Clothilde Burke De Kol, calved 1904; Weichman Bros..... 300

One of Frank Iams' big drafters, the kind that he is selling at from $100 to $500 reduction below his regular bargain prices. Twenty imported Percheron and Belgian stallions must be sold within the next thirty days. See field note.

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Send it back at our expense any time not satisfactory and we will send you a Dollar Bill.
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(Continued on page 23.)

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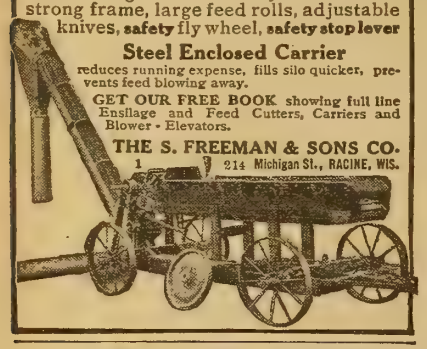
FILLS SILOS FAST

Runs easiest—on least power. Cuts clean and fast. Traveling force feed table—handles big bundles easily. Has extra strong frame, large feed rolls, adjustable knives, safety fly wheel, safety stop lever

Steel Enclosed Carrier
reduces running expense, fills silo quicker, prevents feed blowing away.

GET OUR FREE BOOK showing full line Ensilage and Feed Cutters, Carriers and Blower-Elevators.

THE S. FREEMAN & SONS CO.
214 Michigan St., RACINE, WIS.



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Make the celebrated

MONITOR WELL AUGERS AND DRILLS

Write for prices and catalog. Address

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100-108 Clark St.
LE MARS, IOWA

HAVANA Steel Wheels

For any wagon or cart you may have on your farm. We make the wheels to fit your axle. You give us the exact dimensions of your axle, as asked for on our order sheet, and we guarantee a fit. If you are interested, we shall be pleased to forward you our catalogue and order sheet. *Write us.*

Havana Metal Wheel Co.
Box 47, Havana, Illinois

Kalamazoo SILOS Last!

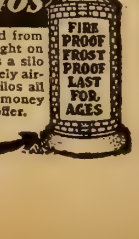
Construction is right, material is right. Only silo made with full-length, structural steel door frame heavily galvanized after the riveting. Not a crevice exposed to rust. Choice of seven kinds of wood. Inflexible guarantee. We prepay freight. Catalog shows many more fine points, write for it today. Address Dept. 26

KALAMAZOO TANK & SILO CO.
Kalamazoo, Mich. Kansas City, Mo.
Minneapolis, Minn. No. Ft. Worth, Texas

Kalamazoo Silos

Easily made, easily erected. Molded from cement with an inexpensive mold right on your farm by any farm hand. Makes a silo like rock, frost and fire proof, positively air-tight. We also sell guaranteed tile silos all ready to put together. Either silo big money saver. Write for booklet and special offer.

CEMENT & TILE SILO CO.
Dept. 65 Kalamazoo, Mich.



OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

FEEDING VALUE OF THE CEREALS.

The following communication has been received from one of our subscribers, Mr. Henry A. Chapman:

I would like some information as to the feeding value of different grains raised on the farm. For instance, I am feeding my milk cows a ration composed of ground barley, ground oats and bran in the proportion of two parts of oats to one of barley and one-third bran. In addition they are given bundle corn and shredded fodder. What more do I need to balance the ration? Is barley good for milk cows and how do you figure protein value in corn stover or binder corn? What is a consistent ratio for cows as pertaining to protein and carbohydrates? I would like a list showing the protein and fat values of the different grains.

The principal grains used on the farm for feeding purposes are oats, corn, barley, and occasionally wheat and rye. The feeding value of these feeds for dairy cows largely lies in their protein content because protein is scarce and high in price. Too much stress, of course, cannot be laid on protein simply because it is high in price, for there are other things coming in which materially affect the feeding value besides scarcity. There must be considered palatability, digestibility and the general effect on the animal's body. Of the three feeds first mentioned (corn, oats and barley) they stand in relation to each other for milk production about as follows: Oats rank first, each 100 pounds containing nine pounds of protein and sixty pounds of carbohydrates and fat. Barley would come in second with nine parts protein and seventy pounds carbohydrates and fat, while corn has six pounds protein and seventy pounds carbohydrates and fat. It would appear at first thought that barley would be the better feed, as it contains the same amount of protein as oats with the added advantage of possessing a higher fat content; but oats comes nearer approaching a balance, while it furnishes a roughage so much needed by the animal and which is very palatable. Bran is a by-product, not, strictly speaking, a farm product, but it is a most excellent feed for dairy cows. It is a much better feed for milk production, especially when fed in connection with other feeds, for variety, than ground wheat. Whole wheat contains 10.2 pounds of protein while bran contains 12.6 pounds protein, per hundred pounds. Bran is more bulky, less concentrated and pasty and aids materially in carrying other feeds through the manifold and alimentary tract, and absorbs the juices of the stomach, causing the animal to take heavy drafts of water so essential to the production of large quantities of milk. I think our inquirer has compounded a very good ration for his cows. While it could be cheapened some it serves very well and the three feeds above mentioned in the proportions given show a nutritive ratio of nearly 1:5, and with the addition of the corn in the bundle and shredded fodder ad libitum the ration would be widened perhaps two points. He should feed one pound of the mixed grains to every three pounds of milk produced.

A consistent ration for cows in full flow and heavy producers is 1:6. Light milkers will do very well on a ration of 1;7, but it should not be widened beyond this.

Corn stover has a nutritive ratio of about 1:23, depending somewhat on the quality of the feed. Binder corn, or corn fodder has a ratio of 1:14.3.

This correspondent has neglected one of the principal things in making up his ration. While the ration for variety, palatability and balance is a good one, he has not taken into consideration the price. Barley may be cheap with him, but with us it is high, so discarding the barley and increasing the oats, corn and bran in their relative proportions would

Oxford Duke E., a typical representative of the Bates strain of Shorthorns, for several years stood at the head of the herd owned by B. W. Little, Janesville, Wis. This great sire belongs to one of the four or five most popular families of Bates' cattle. He has left an indelible stamp upon the herd built up and maintained by this Rock county, Wisconsin, breeder. The sire now at the head of the Little herd, Siddington Duke 6th, has lately been sold to one of Iowa's most prominent breeders of milking Short-horns. Mr. Little's herd is undoubtedly one of the purest Bates' collection in this country. See advertisement on page 27.

Everybody's Buying SAGINAWS

Why do men now demand so many "Saginaws" that five huge factories must be operated at full capacity in order not to disappoint dairymen and stockmen? Just think a minute and you'll remember. Hasn't the "Saginaw" introduced every improvement known to Silos in the past 7 years?

Didn't the Saginaw Silo recently adopt the Patented Angle Steel Rib and the Spline-Dowel? Wasn't it the Saginaw that made the All-Steel Door Frame famous? And was ever anything invented to compare with the Saginaw Base Anchor or the Saginaw Inner Anchor? Men, this year's Saginaw is a wonder! Strong as a City Skyscraper. Even when empty, it stands as immovable and strong as the great Rock of Gibraltar. Your Silage is always bright and clean clear to the edges, next to the wall.

WRITE! Rush a postal to us at once and you will soon have before your eyes the fascinating story of the World's Greatest Silo. No Dairyman or Stockman can afford to miss such a treat. Mail just a postal now, saying you want the new Saginaw Silo Book No. 34 and it will be sent you by return mail.

THE McCLURE COMPANY FORMERLY FARMERS HANDY WAGON COMPANY
Saginaw, Mich. Des Moines, Iowa Minnesota Transfer, Minn.
Cairo, Ill. Fort Worth, Texas (62)

An ONLY for Service
An ONLY for Cost
An ONLY for Business
An ONLY for YOU!
ONLY $3.75

This is our 6th year in the business and ever increasing sales is the proof of its ability to do the business in the hog yard.

The time is at hand when the farmer requires just as clean water for his hogs as for the horses or cattle, and that will be conservative of the water supply, and automatic with the needs of the stock. We have all these requirements in the "ONLY" Hog Waterer. Ask for our new book, "HOG SENSE." It's FREE. Address

ONLY MFG. CO., Dept. H, HAWARDEN, IOWA.

APPLETON SILO FILLERS

Handsome, illustrated booklet giving 30 convincing reasons for buying the powerful, low down, underslung, cut-under oak frame, Appleton Silo Filler, mailed free. Write for it to-day.

APPLETON MFG. CO., 439 FARGO ST., BATAVIA, ILL., U. S. A.

This Man Knows Cream Separators

Farmer Onswon's Advice to Farmers

Look at this BEATRICE. I paid $75 for it instead of the $100 to $110 usually asked for less capacity. It's the only A No. 1 separator on the market which has these two most important virtues:

Highest quality and fair price.

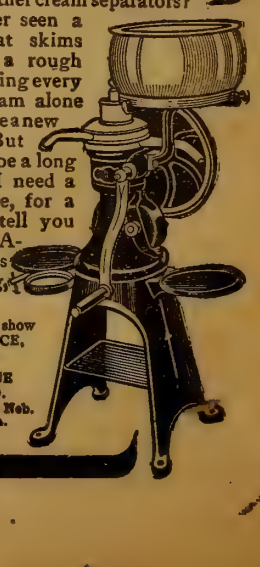
1,000 lbs., $75. They have smaller machines for less money.

Twice a day I spend *less than 2 minutes* to make this

BEATRICE Cream Separator

scrupulously clean and sanitary. The patented device does the trick. How's that compared with the time it takes to clean some other cream separators?

I have never seen a machine that skims closer. At a rough guess my saving every year on cream alone would buy me a new machine. But it's going to be a long time before I need a new machine, for a glance will tell you that the BEATRICE is built for long, long wear.



Let your dealer show you a BEATRICE, or write direct to

THE BEATRICE CREAMERY CO.
Chicago, Lincoln, Neb.
Des Moines, Ia.
Dubuque, Ia.

ABSOLUTELY WATERPROOF STACK AND MACHINE COVERS

OUR Stack and machine covers made of the very best quality of duck and treated with **Slickerine** wear twice as long as others and are absolutely waterproof. They stand hardest use—never mildew, get stiff or break. Covers 9 ft. 4 in., or over, strips run the short way, draining water perfectly and adding great strength. Manila ropes 4ft. 8 in. apart. Guaranteed full size and weight. Write for free booklet. Reference, Illinois National Bank.
SLICKERINE COMPANY.
P. O. Box 79, Dept. 7. Peoria, Illinois.

LANDS AND HOMES

Families

MANY of them have located in new sections of the country and are making money. Here is the opportunity for you to locate. We have information regarding thousands of acres of nonirrigated land, irrigated land, timber land, fruit land, etc., along the Union Pacific System Lines. Information free for the asking. Write today to

R. A. SMITH,
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OMAHA, NEB.

LANDOLOGY A magazine giving the FACTS in regard to the land situation. 3 months' trial subscription.
FREE If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it *"Personal"* and say *"Mail Landology and all particulars free."*
Address: **LLOYD M. SKINNER, Gen. Mgr.**
Skidmore Land Co., 123 Hall Ave., Marinette, Wis

320-Acre Improved Farm

IN Wadena county, four miles from city of 3,000 population. 290 acres under cultivation, balance timber. Improvements worth $7,000. Good water, fenced and cross fenced. A snap at $50.00 per acre, one-half cash, balance on easy terms at 6% interest. Write **J. R. NIMS, STAPLES, MINNESOTA.**

Eastern Iowa Corn Farms

WE have the real bargains. Make us prove it. Our list will surprise you. Write for it TODAY. **Hunter Land Company, Cedar Rapids, Iowa.**

Another Banner Minnesota Year

IS ahead of us with ideal conditions and great crop prospects. May I send you descriptions of these low-priced lands along our line? Land Agent, C. R. I. & P. Ry., 116 Wolvin Bldg., Duluth, Minn.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2866 Washington Blvd., Chicago, Illinois.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

CENTRAL MISSOURI FARMS Write for descriptive price list of improved farms that will prove profitable and satisfactory as homes and investments. HAMILTON & CRENSHAW, Box 3, Fulton, Mo.

SOUTHERN MINNESOTA CORN LANDS GROWS any grain Iowa farmer grows. Improved land $6a to $125 per acre. Address **McCadden & Allison, Fairmont, Minnesota**

IOWA FARMS We have the best list of big bargains in Iowa farms on the market. Write for particulars. Scott & Brady, Independence, Iowa.

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

FOR SALE 160-acre fruit farm, half-mile from school and church, good roads. Mrs. C. C. Keillor, Bear Lake, Michigan.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

NEW YORK STATE FARMS Write me your wants. Free list. Ogden's Agency, Walton, Delaware Co., New York.

160 A. LEVEL LAND half cultivated, near Iowa line. Near town. Ten years' time. Thos. Brady, Worthing, South Dakota.

FOR SALE Farm Blue Earth and Nicollet Counties, Southern Minnesota corn section. A. H. Schroeder, Mankato, Minnesota

LIST your farm in the Western Homeseeker. It reaches the buyers. One cent a word in advance. Western Homeseeker, Elk Point, South Dakota.

FINE 200-ACRE DAIRY FARM FOR SALE three miles from the city of Eau Claire. Address **Olaf Knutson, Eau Claire, Wisconsin.**

cheapen his ration considerably with just as good results.
Polk county, Ia. O. O. Brewbaker.

DIRT IS CHIEF CAUSE OF FATAL CALF SCOURS.

Dirt is the chief cause of calf scours, as filthy, poorly lighted, and badly-ventilated quarters harbor the disease germs in great numbers. Sometimes calf scours occurs in contagious form, and then only prompt measures will prevent serious losses.

At the College of Agriculture of the University of Wisconsin, special precautions are taken against scours. Not only are the calves kept in well lighted and otherwise sanitary quarters, but they are fed regularly until four weeks old on two to six pounds of their mother's milk three times daily. Care should be taken to have the temperature of the milk as near that of freshly-drawn milk as possible, and to keep the feeding pail clean.

"In spite of all precautions," states Prof. G. C. Humphrey, "we now and then have cases of scours among our calves. For the past two years we have successfully treated such cases as follows: As soon as symptoms appear, two to four tablespoonfuls of castor oil are mixed with one-half pint of milk and given to the calf. This is followed in four to six hours by one teaspoonful of a mixture of one part salol and two parts subnitrate of bismuth. This dose can also be given with one-half pint of new milk, or the powder can be placed on the tongue and washed down by a small amount of milk.

"The salol and sub-nitrate of bismuth can be secured from any druggist, mixed in the proper proportions at the time of purchase, and thus the powder will be readily available for use at any time. As an additional precaution against contagious scours it is advised that the navel of the newborn calf be wetted with a 1 to 500 solution of bichloride of mercury (corrosive sublimate)."

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending May 4, 1913:

Another week with much sunshine and no rain until Friday night has advanced farm work rapidly. A large acreage of ground is ready for the planter, and in many localities, in the southern counties, corn planting has begun. The first few days of the week were too cool for normal growth of vegetation, and the heavy frost on the 28th endangered the prospects of a fruit crop, but late reports do not show any damage done. After the 28th the days were warm enough to bring the average temperature for the week to about 8 degrees above the normal. Copius to heavy showers Saturday night in all parts of the state, except the northeastern counties. The needed moisture will be highly beneficial to all vegetation, and especially to small grains, grasses and early potatoes.

The Iowa Horticultural Experiment Station at Council Bluffs reports: "All varieties of apples show a full crop of blossoms, even where they bore heavily last fall; the Jonathan, perhaps showing the heaviest. Next in order come Ben Davis, Mo. Pippen, Northwestern, Winesap and Grimes. The Duchess, Salome, Arkansas and Iowa Blush are also heavily loaded. Plums showed a full set of bloom, but from all appearances did not fertilize well. Sour cherries full crop. Peaches in the southern part of the state will perhaps make 75 to 80 per cent crop. Pears show nearly full bloom. Berries wintered well. In many vineyards 10 to 20 per cent of older vines appear dead. Conditions are unfavorable for fertilization as scarcely an insect is working on the blossoms. The pollen is withering so that if the present cool and rainy weather prevails many of the fruits will not develop.

Geo. M. Chappel, Sec. Dir.

Corn is a warm weather plant, but the seasons have been so short lately that it has seemed necessary to crowd it into a little cold weather at one end of the season or the other. I do not believe in planting corn until the weather and soil are warm, but it sometimes seems necessary to do so to escape the cold weather of fall, when spring lingers long and is chilly.

Good books, music, innocent home games and various forms of amusement in and around the home will play an important part in keeping the boys and girls on the farm, away from the dangerous pleasures of the glaring city.

Ask Your Neighbor About his DE LAVAL

Wherever you find a De Laval user you will find a "booster."

The De Laval satisfies, pleases and makes money for its more than a million and a half owners.

There are probably quite a number of your neighbors who are using cream separators and in most communities a majority of these machines are De Lavals.

If you expect to buy a separator it will be worth your while to see what some of these De Laval users think of their machines.

If the evidence of your neighbors who use and recommend the De Laval is not enough to convince you of De Laval superiority, have the local De Laval agent put one in on trial for you and try any other machine you want to alongside of the De Laval.

Let the De Laval start saving your cream right now, this spring. It will soon pay for itself.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 DeLaval catalog also mailed upon request. Write to nearest office.

The De Laval Separator Co.
New York
Chicago
Frisco

SOONER OR LATER YOU WILL BUY A **DE LAVAL**

HOLSTEIN CATTLE.

Pure-bred Registered
HOLSTEIN CATTLE

The day is passed when milk can be produced at a profit by a herd of mongrel cows. Look the facts in the face and study the methods of progressive dairymen.

Wherever the interest in dairying is most active and most intelligent, there the pure-bred Holstein stands first. And every month adds to her prestige as a money-maker.

If you mean business, why not get your start before the demand increases still more?

Send for Free, Illustrated, Descriptive Booklets.
HOLSTEIN-FRIESIAN ASSN., F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

HOLSTEIN COWS, HEIFERS, BULLS
250 head in herd. Also some very choice young bull calves. Write us, let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from eight to 12,000 lbs. milk per year. All stock registered; no grades.
Woodlawn Farm - Sterling, Illinois.

"RESTHAVEN HERD" OF HOLSTEINS
THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

Registered Holstein Bulls
CHEAP to close out; five ready for service and seven 8 to 12 months old, sired by king of the butter king, King Segis Hengerveld, and the $10,000 milk and butter king. Prices $85 to $125. Address
Henry Glissman, Station B, Omaha, Neb.

Save $50
Get your Silo direct from our Factory
Shipped on approval to your station. Get our free Silo Book, tells why we quote the lowest prices on
GUARANTEED SILOS.
Don't fail to get this valuable information. Write today. **INDEPENDENT SILO CO.**
2331 University Ave., St. Paul, Minn.

HOLSTEIN BULL AND COWS FOR SALE.
Come and see them or write.
THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

HOLSTEIN COWS
WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON, - Elgin, Illinois

JERSEY CATTLE.

WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Redhead's Jersey Bulls
I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

Jerseys For Profit
AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., N.Y.

GUERNSEY CATTLE.

WE NOW OFFER 30 HEAD
of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address
WILCOX & STUBBS CO., DES MOINES, IOWA

Alvin V. Rowe, Pres.

"Can't Sag" Gates Save You

Cost only one-third as much as ordinary iron, wire or gas pipe gates, but last twice as long. Neat in appearance—best and strongest gate made—light, easy to handle, opens both ways. Boards are double *bolted* between eight angle steel uprights and double truss braces. *guaranteed never to sag.*

BIG MONEY

Cost Less Than All Wood Gates—Last 5 Times as Long

Can't Sag Gates are furnished complete, ready to hang, or just the Gate Steels which include everything except the boards. Patent self-locking hinge feature---reinforced two piece malleable hinges. Six Triangular Truss Braces make gates extra strong.

Improved Elevating Attachment permits the gate to be raised full length from 5 to 30 inches, so small stock can pass under, and to swing over snow.

30 Days Free Trial and 5 Year Guarantee

Catalog shows both complete Gates and just the Steels, at prices you can't afford to miss. Send for my new catalog with free 30 days' trial and *freight prepaid offer.*

Alvin V. Rowe, Pres.
ROWE MANUFACTURING CO.
495 Adams St., Galesburg, Ill.

TRADE MARK
CYCLONE FENCE CO. WAUKEGAN ILLINOIS

LEADS IN HIGH QUALITY AND LOW PRICE

CYCLONE ORNAMENTAL LAWN FENCE

Is extra heavy weight, sag-proof weave, close, even spacing of the picket wires, self-adjusting to uneven ground; easy to erect on wood or iron posts.

The enormous output of our factory, the biggest of its kind in the world, makes **Cyclone** the lowest priced high-grade fence you can buy.

CYCLONE VICTOR FARM GATES—HEAVILY GALVANIZED; the strongest gate made; has tubular steel frame free from holes; heavy wire fabric, rust-proof, automatic lock absolutely stock proof; raise device holds gate firm in any position at front or hinge end.

See your dealer about these goods; or write us for fine Free Illustrated Catalog.

CYCLONE FENCE CO.,
Dept. 76 • • WAUKEGAN, ILL.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

A PAIR OF GOLD HANDLE SCISSORS FREE

Full Six Inches in Length.

I have a pair of these excellent scissors with gold plated handles to give to each one of my lady readers who will answer this advertisement. The scissors are full six inches in length and made of best material. The blades are perfectly tempered, nickel plated and very highly polished; the edges are keen and accurately beveled; the handles are beautifully carved and

Plated With Pure 22 Karat Gold

I am not afraid to guarantee these scissors. If you are not perfectly satisfied with the pair I send you, after using it for a week, you can return it to me and I will cheerfully refund your money. Did you ever have a better offer than this? You have absolutely nothing to lose

I guarantee safe delivery by parcel post. If the scissors are broken or damaged in transit I will replace them free of charge.

This Offer Good Only Till June 10.

Send me $1 for one year's subscription to The Homestead, new or renewal, and I will send you this pair of scissors postpaid free of all charge. Do not go to the trouble of going to town to get a money order. Simply pin a dollar bill to the coupon below and mail it at my risk today.

ADDRESS ALL ORDERS TO
James M. Pierce, Pub. Homestead
Des Moines, Iowa.

USE THE COUPON

Date.....1913

James M. Pierce, Des Moines, Iowa.

Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Homestead one year. Send me free of charge your gold handle scissors.

My name.....

Postoffice .....

Rural Route .....State.....

AN INNING FOR CATTLEMEN.

To the Editor of The Homestead:

Cattle breeders who went through the discouraging experiences and low prices of twenty years ago had some cause to doubt the prophecy of better times. It required some faith to believe and no little courage to act on that belief. But those who had the faith and ability to hold on are now enjoying a well-deserved reward.

During recent years men raising beef cattle have come into their own. For some time prices have brought encouragement, but the last year has brought handsome profits to all classes, whether ranchmen, breeders, or feeders. The writer has been connected with the beef cattle industry for more than forty years, but he does not remember a time when the market papers were so full of letters of stockmen expressing satisfaction with prices received as they have been during the months of this year. Without exception these reports show handsome profits and some of them reveal returns so large that they almost challenge belief. The most gratifying feature of this desirable condition is that it is not transient, but is destined to remain some years. It is the universal belief of men closely connected with the live stock trade that the price of beef cattle will rule high until there is a considerable increase in the supply of cattle. Commission men at the market centers generally hold this opinion, and the general manager of the American Short-horn Breeders' Association has publicly expressed the opinion that the future is very bright for men who are breeding beef cattle.

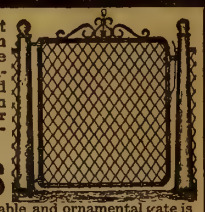
It required two or three years to convince the country that there was a shortage in cattle, but that fact is now generally admitted and many erratic and senseless measures have been offered to prevent the further reduction of cows and heifers by sale or slaughter. As a result of high values for beef cattle there is such a strong demand for cows and heifers as a foundation for cattle breeding that the trade in pedigreed cattle will undoubtedly be greatly benefited. Commission men at market centers are holding orders from the country for cows and heifers for breeding purposes, and one prominent ranchman from Texas reports that offers have been made for unborn calves. All this shows that ranchmen and farmers are as anxious to get into the cattle business as they were to get out of it during the period of depression.

The trade in pure-bred cattle is slow to respond to an enhancement in beef values, yet a commendable increase has been manifested in recent public sales and will be more noticeable in those of the future. When beef cattle were at moderate values and grain high, farmers asserted, and no doubt believed, they could not afford to raise cattle on their valuable lands, but the present price of beef with a prospect of cheaper corn has modified the problem. Aside from their value in maintaining the fertility of the land, it is not difficult to figure a profit on cattle raising on farms of the corn-belt. When good feeders sell at six and one-half to eight cents and fat yearlings bring from $80 to $120 each, their production ought to leave the farmer a margin; and as this industry is developed, the demand for pure-bred bulls will increase. As farmers' cattle, Short-horns are peculiarly adapted because of their dual capacity for beef and milk production. For restocking the farms with a profitable class of beef cattle, they will be found useful and desirable.

B. O. Cowan.

Protection for the cotton trade of Lancashire, England, by fostering the supply of cotton independent of America was the gist of Chancellor Lloyd-George's argument on introducing in the house of commons a resolution permitting the British government to guarantee a Sudan loan of fifteen million dollars for the development of cotton growing along the Nile. Egyptian cotton, he caimed, was better from the point of view of the manufacturer and the quality of the goods obtained from that product and also better from the point of view of the workman, because it was clean and healthier to work than American cotton.

$1.90 FOR THIS DANDY GATE



These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**

Iowa Gates

The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

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The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

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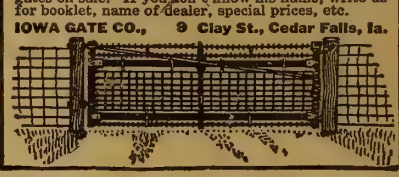

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Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

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LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

DEFECTIVE TITLE—DAMAGES.

A Subscriber, Burlington, Iowa.—In the fall of the year A sold his farm to B by a contract which provided that in March of the following year A was to furnish B with a warranty deed to the land, and an abstract showing a good and clear title. The contract was drawn by a lawyer and duly signed by the parties. In March A delivered the deed and an abstract of title to B who asked him if the abstract was all right and A said he considered it all right, as it had been passed upon by several loan companies. B paid cash for the land and took the deed and abstract without further question. Four or five years later B sold the land to C upon like conditions and C took the abstract to the same attorney who said there were several defects to be corrected to make the title clear. B then had the same corrected by another attorney at a cost of several hundred dollars before C would make settlement for the land. Is A liable to B for such expenditures?

Answer.—B had a good cause of action against A for damages on account of the defective title, but there is some question is to whether or not his claim is outlawed. He should submit the contract and A's deed to a local lawyer, and have them examined to determine this question.

DEEDS TO HUSBAND AND WIFE—WILLS.

A Subscriber, Sycamore, Ill.—A and B are husband and wife and have no children. They desire to be partners in all things. At present their money is in the bank, payable to either one before or after the death of the other. In case real estate should be purchased, how should the deeds be worded so that they shall own the property together during life and at death of either, have the property go to the other absolutely without a will or court proceedings? How can the personal property, such as horses, cattle, poultry, machinery and other things, be arranged so as to belong to both during life, and at death of either belong to the other? Would the listing of such things on the tax books in the names of both accomplish such result?

Answer.—When real estate is purchased, both husband and wife should be named in the deed as grantees and this will give them equal rights and title to the property. A deed could be made which would vest the property in both during life, and to the survivor at death of either. Such a deed should be carefully prepared by a competent lawyer, and it is not expedient to give a form for such deed in these columns. Even with such a deed, it would be impossible to avoid proceedings in court upon the death of either husband or wife, especially when personal property is concerned. The very best way to accomplish the purpose you wish is for each to make a will giving all property to the other at death. Listing on tax book would not answer such purpose.

DELIVERY OF RENT GRAIN.

A Subscriber, Monroe, Iowa.—On March 1, 1912, A leased B's farm land for the ensuing year, ending March 5, 1913. The contract required A to give grain rent and to deliver B's share to market, no specified time being fixed for such delivery. At harvest time B did not want to sell his share and had it put in his granary. Since the expiration of the contract can B compel A to deliver B's share at market?

Answer.—He cannot. When B had his share of the grain put in his granary instead of taken to market, he waived the provision in the contract requiring it to be delivered at market. He cannot now require A to take it from the granary and deliver it at market where A's term as tenant has expired.

GUARDIAN FOR MINOR.

A Subscriber, Goldfield, Iowa.—I have a boy sixteen years old working for me for wages. His father is dead, and his stepfather takes all his wages except $5 per month, which he allows the boy for clothes. The boy went home on a visit two years ago and his stepfather drove him away. He has no guardian. The boy has not been at home in the winter time for the last five years. Should the boy have a guardian appointed for him?

Answer.—The boy should have a legal guardian appointed for him. He is now of such age that he can choose a guardian for himself, with the approval of the judge of the district court of the county where his mother resides. He should have some friend make application to said judge for the appointment of a guardian, naming the person chosen by the minor.

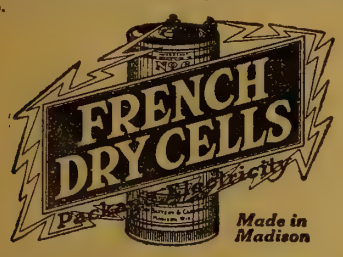
For the Telephone For the Gas Engine

Costs Less Than a Half Bushel of Corn

At a cost of a few pennies for each French Dry Battery—less than the price of half a bushel of corn—you can have a supply of electricity "on tap" always.

Don't Miss This!

French Dry Batteries will save you endless time, miles of steps and lots of money. The next time you fill up that dangerous kerosene lantern and "hike" for the barn in the dark, remember that French Dry Batteries in an electric flasher would supply the necessary light. Think of the advantage of having a telephone line from the house to the barn, or being able to open the front gate without leaving the porch and dozens of other conveniences. There's no dirt, delay and inefficiency with a French Dry Battery—the "juice" is there right on the job ready for instant use.



These marvelous batteries are scientifically constructed packages of electricity. They are *special* purpose batteries built for a *special* job. Thousands of auto owners insist on the French "Auto Special"—the dry-cell battery with the *blue* label. The *green* labeled French Telephone Cells are for all household uses.

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French Dry Batteries give a strong current for a *long* period. Ordinary batteries give a weak current for a *short* time and then quit altogether. French Dry Batteries *save time* for a *long time*. Your dealer will tell you the particular French Battery you need. If you want to know more about these wonderful French Dry Batteries and how they can help you do your farm work, send your name and address on a postal. We'll answer by return mail. Write tonight.

FRENCH BATTERY & CARBON CO.
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From Elkhart Magnetos. Make hot, sharp flame for ignition. One should be on your new engine—"Make-and-Break" or "Jump-Spark." Write for names of engines using

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Arc Flame MAGNETOS
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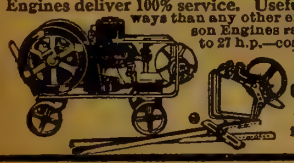
Power-house on wheels

Carries its own line shaft, pulleys, belt tight ener and Pump Jack. Equal to any job anywhere, at any desired speed.

GILSON "Goes Like Sixty"

Engines deliver 100% service. Useful in more ways than any other engine. Gilson Engines range from 1 to 27 h.p.—cost $33.50 up. Write for particulars.



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You'll be proud of your spring hat, if it's a Lanpher

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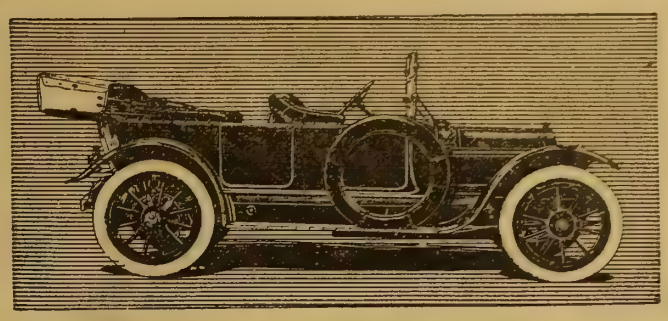

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Here is a car that will outlast your expectations. It is built for extremely hard usage on American roads. A car that is still young when average cars have served their time. We put hundreds of dollars into the vital parts that do not show to the naked eye. But years of service bring them to life.

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Westinghouse Electric Starter; Westinghouse Electric Lighting System for all Lamps; Side and Tail Lamps, Combination Oil and Electric; Warner Auto-Meter; Electric Horn; Rain Vision Ventilating Windshield; English Mohair Top, Side Curtains and Cover; 37x4½-inch Tires; Firestone Universal Quick-Detachable Demountable Rims; 124-inch Wheel Base; Three-Quarter Elliptic Springs; 4½x5¼-inch Cylinders; Brown-Lipe Transmission; Timken Full-Floating Axle; Rayfield Carburetor with Dash Adjustment; Bosch Magneto, Dual System Single Point Ignition. The usual Tools, Tire Repair Kit, Jack, etc. And in addition, Extra Tire and Tube on Rim, Extra Tube separate, Tire Cover, Tire Chains and Handy Work Light on long wire.

5-Passenger Touring, *Fully* Equipped, $2,200

See the Case Forty, price $2,200. Note its complete equipment. Compare it with cars of much higher price. See, also, the Case Thirty at $1,500.

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A big job that has to be done quickly needs an outfit that you can depend on. Look into the

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32 in. to. 40 in.

They are machines you can't choke—they beat the grain out of the head in the cylinders—they stack nothing but the straw.

The capacity, large grate surface and durability of these separators make them the logical machines for every big job.

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—the tractor that always uses kerosene—it will furnish the cheapest, steadiest and handiest power. It's easy to handle and useful every day in the year for any kind of belt or field work.

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Perry FRESH WATER System

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You simply can't afford to do without a Perry Water System any longer. For health's sake — for comfort sake—for profit sake, don't go through another season without one, especially when it costs so little to operate and such a modest amount to install.

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WRITE FOR FREE CATALOG TODAY

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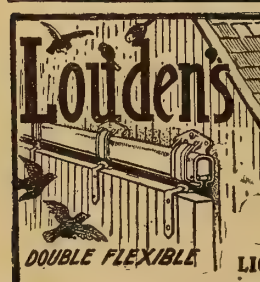
Louden's Bird Proof Barn Door Hanger
Never Clogs—Never Balks



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LIGHT RUNNING, roller bearing, tandem trolley hangers, operate inside of an enclosed track. Always runs easily, never binds. Can't get off the track. Can't be clogged by birds, ice or snow. Can't be broken by stock crowding through half open doors. Carries the heaviest doors. Lasts as long as your building—always on the job. *Costs no more than the ordinary makes.*

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SEED CORN

All my corn gave perfect satisfaction last year. Quality better than ever this season. **REID'S Yellow Dent Exclusively.** Bred for high yield without sacrificing early maturity. Also bred for highest feeding value which places it in a class by itself. We feed thousands of bushels of corn each year and know it will go farther in the feed yard than any other corn. Ninety-eight to 100% strong germination. Shipped on ten days' approval. Price $3 per bushel either ear or shelled and graded. Crated 35 cents extra. Limited supply. Order from this advertisement or write for my free Corn Book. Address

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HORTICULTURE

GROWING RADISHES.

Radishes in order to reach their greatest perfection must make a rapid growth and in order to do this they must be grown in warm, light, rich soil; one that has been manured the previous season is preferable to one that has been manured at the time of sowing as in the latter case they are apt to be attacked by a small grub and become "wormy" as it is commonly called. Rank manure not only produces a sharp, pungent flavor, but also induces a coarse, woody growth. The first sowing may be made as early in the spring as the ground can be worked into fine, loose condition.

Make the soil very fine and level and sow the seed thinly in drills fifteen inches apart, covering the seed one-half inch deep. Many people make a mistake in sowing the seed too thick; when up the plants should stand at least one inch apart so as to give each plant room enough to develop without being crowded. For a succession sowings should be made every two weeks throughout the season. The size of the sowing depends upon the family. It is much better to make frequent small plantings than to make larger sowings farther apart, as in order to have the finest quality the roots should be pulled as soon as large enough, for if allowed to remain in the ground too long they will become hollow and pithy.

Good radishes cannot be grown in hot, dry soil; therefore if crisp, tender radishes are wanted during the summer months the beds must be partially protected from the sun.

The winter varieties should be sown about the middle of July in drills fifteen inches apart and when the plants are up they should be thinned out to stand four inches apart in the rows.

DRY ROT OF POTATOES.

To the Editor of The Homestead:

The Nebraska Experiment Station has just issued Bulletin 134, on "A Dry Rot of the Irish Potato Tuber."

For several years the department of agricultural botany has been engaged in a study of Irish potato dieases in Nebraska. Among these the dry rot of the tuber is one of the most important. Buyers and commission men have reported losses, during storage, of from 20 to 60 per cent due to this dry rot. In fact the most important feature of this dry rot is the fact that it forces the immediate sale of the crop as soon as dug. This tends to demoralize the market and places the grower at the mercy of the buyers, since he is himself afraid to store his crop and wait for better prices.

The dry rot here described is a strict tuber rot affecting mature tubers only. Neither the stems nor the young tubers are ordinarily in the least affected. Natural infection is known to occur solely through wounds produced in the process of digging or subsequent handling. In many cases this rot secured a foothold through wounds produced by scab-producing animals of certain sorts and perhaps even through scab spots due to fungus parasitism, though the latter method is certainly very rare if we may judge from the laboratory experiments.

The rotting is rather slow, and in general within four to six weeks from one-third to three fourths of the tuber is destroyed. The epidermis of the rotted portion becomes slightly wrinkled and usually has a characteristic bluish color. On account of the rapid destruction of the underlying tissues the surface over these areas soon becomes distinctly depressed.

The rot may make its appearance at any point on the surface of the tuber, though more commonly perhaps at the bud end of the tuber. There is no watery degeneration of the tuber unless other organisms gain entrance, so that this is in fact a dry rot.

Numerous inoculation experiments have shown that this dry rot is caused by a parasitic fungus, not previously described, for which we have proposed the name Fusarium tuberivorum. At the same time it has also been demonstrated that this dry rot fungus does not cause the injury to the leaves and stems often referred to as "blight" or "wilt." In other words, the present dry rot of the tuber is not connected in any manner with diseased conditions of other parts of the plant.

Extensive experiments have been conducted to learn if any treatment might be applied before the potatoes were stored that would reduce the amount of this rotting.

These experiments have clearly demonstrated that dry rot may be held in check through treatment of the tubers before being placed in the

Paris Green Is Best—

Modern science has been unable to discover anything that destroys insects *quicker*—more *positively* or at less *cost* than Paris Green.

ANSBACHER'S Pure Paris Green

"Standard for over half a century"

But — to *be* sure of best *results make* sure of the best "*Green.*" Ask for — insist on Ansbacher's — best by every test.

Send for our free book, "QUICK DEATH."

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WITH my surface and deep cultivator shovels. They scour where others won't, leave ground smooth, handle and run very easy for boys and horses. Your money will be returned if shovels don't please. Send for booklet.

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ALL BRASS double acting high pressure pump with relief valve. Absolute satisfaction. Write today for our LARGE ILLUSTRATED CATALOG FREE describing Sprayers, Planters, Diggers, etc.

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of practical experience. In our machine shop, garage and on the road you learn by actual experience how to repair, drive, demonstrate and sell automobiles. Send for free catalog explaining The "Sweeney System" and showing views of the largest and best equipped auto school in the world. Write today. Now.

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Bees for the Farm

Need little attention and pay big profits If you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.

THE A. I. ROOT CO.,
Box 314, Medina, Ohio

storage cellars. For this purpose the best results were secured through the use of either formalin dip, formalin vapor, or the lime-sulphur wash. Not only did the tubers in these lots show a very small percentage of dry rot, but they were in excellent condition otherwise when removed in April. The storage time, it should be remembered, employed in this experiment is longer than would ordinarily be employed by the average farmer and this gave the treatments a severe test. Under ordinary farm conditions the development of the formalin vapors is not easily secured, and therefore we would particularly recommend the use of the formalin dip as the easiest method to employ and one that should give excellent results in practice.

E. A. Burnett, Director.
Lincoln, Neb.

HOW THE AGRICULTURAL COMMISSIONER HELPS.

(Continued from page 3.)

through its co-operative farm demonstration agents, established girls' canning clubs by way of encouraging the people to make better use of their opportunities. As a means of advancing this movement, the company represented by the writer has equipped a canning demonstration car which contains practically every type of canner adapted to use in the home, also a number of other facilities for utilizing the surplus products of the farm. This car will be kept on the line during the fruit and truck-growing season, spending two or three days in one place in order that the farmers and their families may visit it and witness practical demonstrations conducted by a competent man in charge.

One important phase of the work of a railway agricultural commissioner is the dissemination of practical information upon the proper methods of growing the more important crops. This demand is being met by the use of pamphlets which are sent, free of charge, to the farmers along the line of the railway. These publications or bulletins are similar in many respects to the Farmers' Bulletin series of the United States Department of Agriculture. However, they are more brief and adapted especially to the conditions which exist in the territory adjacent to the railway. Throughout the South there is a great need for improvement in the breeds of live stock, also for information regarding feeds for farm animals. "Where can I get some good seed corn?" or "Where can long staple cotton seed be procured?" "What shall I plant for winter pasture for hogs?" "What does a silo cost and which kind is best?" "What crops are best for silage?" These are some of the questions that the agricultural commissioner is asked as he goes about among the farmers along his line of railway.

The agricultural commissioner is frequently invited to attend meetings of farmers, business men and commercial clubs and to discuss various topics of interest at these gatherings. He is also expected to attend all of the state, county and local fairs and expositions in his territory, and in a few instances he is called upon to act as judge in the baby show, or some similar contest, at these gatherings. The commissioner who is wise, however, will concede that the babies are all so perfect that it would be impossible for him to decide and beg to be excused from acting as judge in any class of exhibits or contests. The agricultural representative of the railroad is frequently called upon for assistance in the matter of finding suitable markets for farm products. The formation of local growers' organizations for the improvement of methods in the growing, packing and marketing of farm produce is also encouraged. New crops are introduced and improved varieties of standard crops are constantly being sought for.

There is no method of teaching so effective as a practical demonstration. The average farmer may read or be told a hundred times that frequent shallow cultivation conserves moisture during drouth and yet not learn the lesson, but let him be shown a practical demonstration, where results are actually obtained and he will begin the practice on his own farm. For this reason demonstration farms are of value and form a part of the working facilities employed by the agricultural commissioners of the railway. In some cases these demonstrations are conducted on regular farms, the farmers themselves doing the work according to a plan furnished by the railway. In this case the railway guarantees that the results shall not fall below the general average for that crop in the immediate section. A regular demonstration farm has the advantage that work of a more permanent nature and which extends over a period of several years may be conducted. The farm can also be made more or less of a show place and in that way attract the attention of many people who would not otherwise become interested.

One important feature of the work of the agricultural commissioner is that of bringing about a general improvement of the home conditions on the farm; to lessen the burden of women's work in the home by teaching the people to provide their homes with economical labor-saving devices; to induce the farmers to expend more thought and money upon general health and housing conditions and to the comforts of life generally.

Such are the duties of the agricultural commissioner of a railway. His work is among the people along the line of the railway which he represents. The writer is one of the few men engaged in this line of work who are provided with a special or office car for use in visiting the various points in their territory. This makes it possible for him to carry a complete office on the road and to attend to correspondence and conduct business as he goes from place to place.

In the development of its agricultural resources the railway represented by the writer employs special men to do specific work. One man devotes his entire time to fruit and truck crops. Another is being employed in live stock and dairying. A third man is engaged in the preparation of exhibits and representing the company at fairs and other exihibitions. Others are employed as superintendents of trial and demonstration farms and a clerical assistant to the commissioner is on duty in the headquarters office to keep up with mail and routine business. Several of the commissioners are very ably assisted in their work by their wives, one of whom is skilled in photography and makes most of the pictures that her husband uses for illustrating his bulletins. Another has taken up the problem of interesting the women in their farm homes and the development of the girls' canning and poultry clubs.

Plans are now being made to organize an association to consist of the men who are engaged in agricultural development for the various railways. This association will have for its object the greater efficiency of its numbers through co-operation and the general improvement of farming conditions, which will ultimately result in increased revenues for the railway. It is often difficult to estimate the actual results of the campaign for agricultural development being carried on by the railroads. Like any educational movement the real results may not materialize until a new generation shall have come upon the field of action. The seed being sown at present is sure to yield a harvest in the future in the form of better farming methods, better houses, a more contented people and the general prosperity of the country.

If the clover meadow is nipped too close in pasturing, the crop of seed will be shortened.

The illustration shown above is a kodak picture of the great boar Dusty Critic 2d, the sire of the 1912 champion Critic B. B. F. Danford, Ord, Neb., is the gentlemen that fitted Critic B., and Dusty Critic 2d is now owned by him and Mr. Dewhurst. Dusty Critic 2d will probably be shown at the Nebraska State Fair. Critic B. was champion at three or four of the leading western fairs last season.

BUG DEATH

Kills all bugs and worms that eat the leaves of any plant or vine: also prevents blight.

CONTAINS NO ARSENICAL POISON AND WILL NOT INJURE THE FOLIAGE.
Give it a trial this year.
If your local merchant does not sell it, write us.
Our booklet, Crop Insurance, mailed free.

Danforth Chemical Co., Leominster, Mass.

Big Sale Northern Grown Seed Potatoes

PURE BRED—TRUE TO TYPE.
Original stock selected by Wisconsin College of Agriculture.
ONLY 400 BU. LEFT SPECIAL BIG DISCOUNT ON 10 BU. OR MORE.
MONEY BACK IF NOT SATISFIED. Write at once for circular and prices.
NORTH WISCONSIN SEED CO., Box 1, CONRATH, WISCONSIN.
This advertisement will not appear again.

SEED CORN

We are exclusive agents for H. J. Goddard's **"Silver King"** White Dent, grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Indorsed by state authorities everywhere. Try our hardy northern grown Seed Corn. **We allow you 10 days' Test.** Clovers, Flax, Oats, Barley, Canada Field Peas, etc., Address
THE ADAMS SEED CO., Box 61, Decorah, Iowa

TESTED SEED CORN

Guaranteed To Satisfy Or Your Money Back.

EVERY ear of our corn is tested for germination and we ship it in the ear, in the crate, so you can see just what it is. Our corn is adapted to your locality, no matter what part of the corn belt. Our growers are among the leading prize-winning exhibitors at the best corn shows, and our seed is especially selected and tested. Our price is extremely low when you consider that it only costs you less than 80c per acre for this specially selected and thoroughly tested seed. Tell us whether you want the Yellow Dent or the White Dent and we will guarantee the seed we send you will entirely satisfy or your money back. Price, shipped in the ear, in bushel crates, seed tested, $5 per bushel. A bushel will plant six to seven acres. Can you make a better investment? Order today. Address

GALLOWAY BROS.-BOWMAN CO.,
Box S. C. H., Waterloo, Iowa.

Don't Plant Corn

until your corn planter is equipped with the patented **American Marker Attachment** which we guarantee to save you at least one-third of your corn-planting time. It is built of steel and will last a lifetime. Write for circular, or if you are planting now, send $3.50 and attachment will be shipped at once. If after using it you are not satisfied that it has saved more than its price, your money will be cheerfully refunded. Send your order today.

AMERICAN MARKER ATTACHMENT CO.,
Agricultural Specialties
Dept. B, MILWAUKEE, WISCONSIN

Winans' Seed Potato Cutter

is a machine that has no equal. One man can cut 10 bu. per hour and do it as well as by hand. Write today for circular and the very low price. Sold direct from Factory to Farmer. Address
J. N. WINANS,
Fergus Falls, Minn.

COW-PEAS

AT VERY LOW PRICES
MILLET, CANE, SOY BEANS AND ALL FIELD SEEDS Send for descriptive booklet.
SHULTZ SEED CO., Olney, Ill.

Golden Eagle Standard variety for overflowed river bottoms, heavy yielding, early maturing, deepest grained and smallest cob corn grown, fine cattle corn; also Reid's Yellow Dent, both Sept. picked and dried on hangers, $2.75 bu. Grower, W. C. Bryant, Princeton, Ill.

250 STRAWBERRY PLANTS $1.00
CHOICE of Sen. Dunlap, Warfield, Crescent or Excelsior. Send for **Free Illustrated Strawberry Book.** Tells how to grow them. **The Wildhagen Strawberry Beds, B. 414, Waterloo, Ia.**

CANE SEED CANE SEED
Amber Fodder Cane, Millet, Cow Peas, Essex Rape, Sandvetch, Alfalfa, Sweet Corn. A fine stock of recleaned and tested seed. Prices and samples on application.
COLE'S SEED STORE, PELLA, IOWA.

BINDER TWINE

FACTORY TO FARM. WANT FARMER AGTS.
Write quick. **AUGUST POST, Moulton, Ia**

Cane Timothy, Barley, Sweet Corn and Field Corn, Pumpkin, Swedish Red Oats, Watermelon Seed, Alfalfa, Millet. Write for prices and sample. Satisfaction guaranteed. Hawkeye Seed Co., Lockridge, Ia.

DRAINAGE You can drain your land without digging a ditch. Write for circular at once.
VERTICAL DRAINAGE CO., Clinton, Iowa

GOOD smoking or chewing tobacco. Kentucky Natural Leaf mailed anywhere, 30 cents per pound. Novice Harper, Box 475, Mayfield Ky.

Let the Cattle Drink

Give your cattle all the water they can drink. **If the water supply gets low your profits are sure to shrink.** Don't waste your energy and your strength by using the old-fashioned hand pump. Machinery on the farm is the great **money maker** and the great time saver. Let the Schmidt Pump Jack pump the water for your cattle. Here is your chance to get it on a startling offer. Read!

Genuine Schmidt Pump Jack now $8.95

The great pump jack that is known everywhere as the best. Will last a life time. Gears are completely enclosed, protecting it from the weather and making accidents impossible. Perfect lubrication—**gears running in bath of grease all the time.** Engine can be set at right angles to the pump. Adaptable to both vertical and horizontal pumps. The most efficient pump jack in the world. **Only $8.95.**

Write Today for Free Book

Just your name and address on a post card or a letter is enough. We will send you ABSOLUTELY FREE and prepaid our new book that tells you all about the genuine Schmidt pump jack and other accessories—belting—feed grinders—wood sawing outfits, etc. The book absolutely free and prepaid if you write at once. Tell us when you write if you now have a gasoline engine or expect to get one.

10-S-56

SCHMIDT BROS. CO. ENGINE WORKS, Dept. 4475 Davenport, Iowa

Fine Seed Corn C.O.D.

FREIGHT or express. Catalog delayed therefore lot Reid's Yellow Dent cheap; tests 97-100; $3.50 seed $1.90; extra select $5.00 seed $2.75. Address **Elmdale Farm, R.R. 8, Carthage, Illinois.**

BLACKLEGOIDS

JUST A LITTLE PILL
●● THIS SIZE ●●

placed under the skin by a single thrust of the instrument . . . .

No Dose to Measure.
No Liquid to Spill.
No String to Rot.

SIMPLEST, SAFEST, SUREST, QUICKEST WAY TO VACCINATE CATTLE AGAINST

BLACKLEG

Purchasers of 100 doses get an Injector FREE

May be procured from your druggist or veterinarian.

WRITE FOR CIRCULARS

PARKE, DAVIS & CO.
DEPARTMENT OF ANIMAL INDUSTRY
DETROIT, - MICHIGAN

Makes Lame Horses Sound

Cures All Kinds of Lameness, Quickly, Positively, Permanently.

Mack's $1,000 Spavin Remedy is absolutely guaranteed to cure Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boil, Sprung Knee, Lacerated and Ruptured Tendons, Sweeny and all other forms of lameness affecting a horse, or your

money back in a jiffy. It's a powerful remedy that goes right to the bottom of the trouble and cures the lameness in just a few days, and the animal may be worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair.

Ask your druggist for Mack's $1,000 Spavin Remedy—if he cannot supply you, write direct to us. Ask for our valuable Free Book, "Horse Sense" No. 3.

If you are not positive as to the cause of your horse's lameness, mark on horse above where lameness occurs and tell us how it affects his gait, also tell age of animal. Our graduate veterinarian will diagnose the trouble and tell you how to cure it. This service is free.

McKallor Drug Co., Binghamton, N. Y.

Pratts Animal Regulator
has for forty years been the standard live-stock conditioner. 25c, 50c, $1, $3.50

Pratts Colic Cure
(Veterinary)
Sure cure for colic and indigestion, $1
"Your money back if it fails"
Sold by dealers everywhere, or
PRATT FOOD CO.
Philadelphia
Chicago

1913 Almanac Free

VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

WARTS.

Will you kindly advise what will take warts off of cows' teats without hurting the cow?

Rub the affected parts once or twice a day with best castor oil or fresh goose grease and the warts will disappear after a time. Large warts, with narrow necks, may be snipped off with scissors, a few at a time, and the bases cauterized with a lunar caustic pencil.

PRECOCIOUS MILKING.

I have a large, gray Percheron mare eight years old in foal, bred July 6th. She has a large bag and the milk is running out. She seems to be somewhat stiff and sore in the morning. Have been working her about a week. She is fed sheaf oats, good wild hay and eight ears of corn three times a day.

In such cases an examination of the womb should be made and if it is found to be open the foal is ready to come away and will come away if labor pains are induced by the veterinarian. Where this is not done the foal dies and may be retained and become mummified in the womb; or it may be born later and so weak that it quickly succumbs. If the womb is not open cut down the feed and increase the work to check flow of milk. Rub udder with camphorated oil twice daily.

LOSS OF PIGS.

I had a bunch of 125 March pigs which grew and did well until ten days ago when their eyes would shut tight and they would go around blinking for three or four days, then die. They had a good appetite and ate until they died. Would it be safe to put other pigs in the hog house after disinfecting it, as I have other sows to farrow soon?

There is nothing in your description to show what caused death. Cholera scarcely would be present in such young pigs; but a veterinarian certainly should have been employed at once to investigate and determine the cause of death. Change the sows onto new ground and let them farrow there. Also change the feed, as it is quite likely that errors in feeding have given rise to the trouble.

OVERHEATED MARE.

Five-year-old gray mare is in good shape, but cannot stand the heat when worked or used on the road. Have been using her to plow this spring and I cannot go a whole round before she begins to pant and she was the same way last year. She does not seem to sweat.

She has been overheated at some time or another and never will be perfectly fit for work. Do not feed any bulky feed at noon or work her soon after a meal. Keep her clipped and shade her head when she is at work in the sun. Allow drinking water often. Mix together two parts granular hyposulphite of soda and one part each of powdered nux vomica and ground gentian root and of this mix one tablespoonful in the feed night and morning until she is doing better, then reduce to one dose a day and finally let her do without the medicine.

FITS.

Our four-months-old calves have fainting spells which last for five or ten minutes at first, after which they stand up and look around. They begin to get lighter and finally can't get up again and die in about a week. Have lost two and another one is sick. We feed them as many oats as they will eat and plenty of hay, with water to drink.

Indigestion is the cause of such fits or convulsions and calves die of apoplexy during such attacks, blood vessels rupturing in the brain. Instead of feeding whole oats, feed bran, cornmeal and flaxseed meal, or ground screened oats. The main feed should be sweet skim milk fed three times a day.

INFECTED SOW.

About two weeks ago one of my sows had pigs, all of which had to be taken. She was sick all day and night and since then she refuses to eat; just drinks slop and lies down most of the time. She was fed corn and ground feed with tankage before she came in.

There is septic inflammation of the womb from infection following the use of forceps, or afterbirth may have been retained. Chance of recovery is poor. Once a day flush out the vagina with a gallon of lukewarm 1-5000 solution of permanganate of potash. Dissolve a dram of granular hyposulphite of soda in her slop twice daily.

ABORTION.

(1) Last fall a sow that was raising a fall litter took sick for a few days and then she peeled off from her ears back to her tail, half way down her sides, taking as much as one-half inch of the fat along in many places. She always eats good and is mostly healed up, but I would like to know what I could put on to heal her up faster? Have used nothing but hog dip. What was the cause? (2) Last January I bought a gilt that lost her litter a week after I got her. She was in a pen adjoining the rest of my herd. After that five of the others lost their litters. They were all in good thrift, fed on corn, oats and a warm swill in the morning of bran, shorts, tankage and about seven pounds of oil meal for twenty head. They had plenty of exercise. Will it be all right to breed them for fall pigs and use the same boar on others?

(1) Sunscald from pasturing rank growths of wet rape sometimes causes skin trouble, or it may come from an acute attack of poisoning or indigestion. The case described is unusual and we are unable to give a confident opinion as to the cause. (2) Overfeeding and irritants in the feed most likely caused the abortions and the new sow was not probably to blame. It is a mistake, however, to let a new bought animal at once mix with the home stock. Pregnant sows do not need such rich feeding as you have been giving. Let them have plenty of alfalfa hay and roots, along with a light slop not containing corn or tankage. Make the sows take plenty of exercise. Breed the sows again to same boar.

E. Myers, President, E. Myers Lye Company.

No More Hog Cholera —No Hog Worms— Bigger Pork Profits

By Feeding Daily Merry War POWDERED Lye

Are you going to wait until there is an outbreak of hog cholera in *your* neighborhood—when it spreads from herd to herd killing off hogs like flies—or will you take steps *right now* to *prevent* any possible outbreak in *your own* herd? You need have no fear of hog cholera wiping out *your* pork profits if you will feed a little *Merry War POWDERED Lye* twice *each day* with the regular rations. *It costs only 5c per month per hog,* and thousands of farmers can tell you it *prevents* hog cholera. This awful disease may be raging in a neighborhood, but hogs that are on a *Merry War POWDERED Lye* diet, are conditioned against it, as surely as a vaccinated person is protected against smallpox. Besides it destroys hog worms, keeps the digestion in such perfect condition that every pound of feed is changed into firm flesh thus preventing feed waste and greatly increasing pork profits.

The use of *Merry War POWDERED Lye* as a hog remedy, conditioner and fattener is *not* an experiment. It is a *specially prepared, powdered* lye that has been *tried* and *proven safe* and *effective* for those purposes. Full directions on every can. Don't experiment with an untried, old fashioned, ordinary lye. Get *Merry War POWDERED Lye*—the *time-tried* remedy that *actual experience* has *proved* to be the safest, surest preventive of hog cholera the world has ever known.

These Hogs Could Not Take Cholera

"We have had hog cholera all through our district. Those who have been using *Merry War POWDERED Lye* have missed it. One man in particular, who buys it by the case, has cholera all around him, but so far his hogs have escaped." C. M. COOPER, Proprietor of "The Right Place" Dawson, Neb.

Make a test for yourself. Merry War POWDERED Lye comes in 10c cans (120 feeds per can). *It is convenient to buy in case lots—4 dozen cans for $4.80 at Grocers', Druggists' or Feed Dealers' Everywhere. There are no substitutes. WE WILL SUPPLY YOU DIRECT, $4.80 FOR 4 DOZ. CANS, IF YOUR DEALERS WON'T SUPPLY YOU. Write for our valuable booklet "How To Get The Biggest Profits From Hog Raising." Sent FREE for the asking.*

E. MYERS LYE COMPANY,
Dept. 80 St. Louis, Mo.

Which Kind Do You Want?

Don't Let the Squirrels Take Your Corn

It is not a hard matter to get rid of them if you go at it right. No need of having your corn stand spoiled and having your fields cut up by gophers when a few minutes time for several days will kill them off. It's easy to poison them.

USE GOPHER DEATH—TRIAL PACKAGE ONLY 50c

Enough to kill a good many squirrels, gophers, prairie dogs and ground hogs. Comes in tablet form—easy to use—sure in results. 1,400 tablets $1.25. The squirrels and gophers eat them greedily. If gophers are cutting up your fields and squirrels have taken possession of your farm, our Gopher Death tablets will rid you of the pests. **Don't delay.** Ask your druggist for it or to get it for you—if he doesn't, send direct. You can't afford not to try this safe, convenient to use, effective and reliable poison. Write today. Address all orders to

FORT DODGE CHEMICAL COMPANY, Dept. W, FORT DODGE, IOWA

Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 600 Popular Bldg, Des Moines, Ia.

E. Z. HOG CATCHER
catches any size with one pull. He walks out freely. Free circular.
BAILEY & PHILLIPS, Delavan, Ill.

SAVE-THE-HORSE
(Trade Mark Registered.)

THE TIME IS NOW

All the winter long, the troubled owner of a lame horse reads our advertisements. Then, day after day slips away, while he talks, laments, listens, takes advice and hesitating —FAILS TO ACT—till the Springtime is on him and his horse is not yet able to work. Meantime the thrifty, prosperous, resolute man, reads, considers the evidence carefully —Decides Promptly—and his horse is put to work while being cured. That's exactly what happens every year.

We Originated the treatment of horses by mail—Under Signed Contract to Return Money if Remedy Fails—and every minute of every day for seventeen years our advice and treatments have been on the way wherever mails go and horses are. Our charges are moderate. Write.

Our Latest Save-The-Horse BOOK is a Mind Settler—Tells How to Test for Spavin—What to Do for a Lame Horse—Covers 58 Forms of Lameness—Illustrated But write describing your case and we will send our—BOOK—Sample Contract and Advice—ALL FREE—to (Horse Owners and Managers—Only.)

TROY CHEMICAL CO 3 Commerce Ave., Binghamton, N. Y.
Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by us Express Prepaid.

Booklet free

$3 package cures any case or money refunded. $1 package cures ordinary cases. Mineral Heave Remedy Co., 422 N. Fourth Av., Pittsburgh, Pa.

THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

The reception accorded a new gospel depends largely upon the character of its forerunners and the quality of their work. In both these respects fortune continues to favor the progress of the Montessori system of education; the latest volume presented to the American public, "A Guide to the Montessori Method," is from the pen of Ellen Yale Stevens, whose training, experience and position in the educational world entitle her to a respectful hearing.

Not content with reading about the Montessori method Miss Stevens went to Rome and studied under its founder. Having been educated in the scientific spirit, having knowledge of Italians and securing the privilege of intimate association with Dr. Montessori herself Miss Stevens was in a position to properly survey and to critically examine the workings and the results of this new method of scientific pedagogy as illustrated by the development of the little children in the Casa dei Bambini in Rome. It is the results of her observations that she presents in "A Guide to the Montessori Method," a book of 240 pages, published by Frederic A. Stokes Company, New York City.

The result of Miss Stevens' investigation was that she became an ardent admirer of Dr. Montessori and the system that she enunciates. It was to interest Americans and to facilitate the extension of the system in this country that she wrote this volume. In it she tests the Montessori theories and methods by the principles of modern child psychology and carefully interprets and summarizes it. In so doing she shows that the method's fundamental principle is "to so liberate the life force within the child that he can conquer his environment."

"A Guide to Montessori Method" was written as an aid to teachers and parents; for their benefit it indicates the lines along which the usual actions of parents and teachers should be modified in order that the children may secure the full benefit of the system. Miss Stevens relates her experience with a little summer school she held; she also draws attention to the fact that it is necessary that mothers and teachers should thoroughly understand the principles which lie at the foundation of the method before attempting to use the scientific material by means of which the powers of little children are being more accurately developed to the benefit of their mental, moral and physical natures than ever before.

Mothers and teachers who are wide awake and ambitious for the best interests of children will study "The Montessori Method" as expounded by the founder and translated by Miss George; with it they will do well to use the excellent "Guide" prepared by Miss Stevens.

HOME AND HOMEMAKING.

DAFFODILS.

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host, of golden daffodils,
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.
The waves beside them danced, but they
Outdid the sparkling waves in glee:
A poet could not but be gay
In such a jocund company.
I gazed and gazed, but little thought
What wealth the show to me had brought;
For oft when on my couch I lie,
In vacant or in pensive mood,
They flash upon that inward eye,
Which is the bliss of solitude,
And then my heart with pleasure fills
And dances with the daffodils.
—Wordsworth.

ATTENTION, HOUSE MOTHERS!

If a woman wishes to keep happy, healthy and young looking, she must get away from the drudgery of housework. It must be changed into something that gives pleasure and that leaves some time for mental improvement, for visiting her neighbors and enjoying her family. To do this the work must be systematized. Each operation must fit into its place. No useless steps must be taken. The mind must save the hand. The amount of work that can be done in a given time depends not so much on the strength of the woman as on how well she is able to plan and carry on her work.

FOR THE COOK.

If you want your spinach to have a flavor that is truly appetizing, just cook with it an onion, finely chopped. Choose one with a tender, green top, if you can get it, and you will hardly recognize the dish as spinach, so improved will be its flavor. That is the way I cook my turnip greens, too. I also cook with them a small piece of salt pork, which is excellent seasoning.

Whether broiled or fried, veal cutlets or chops are decidedly improved if allowed to stand half an hour after being sprinkled with salt and lemon juice and rubbed with soft butter. When cooking by the latter method, egg and crumb ten minutes before they are needed; drain on manilla paper the instant they are done, and serve on a hot platter. Salt-pork fat is better than butter for frying.

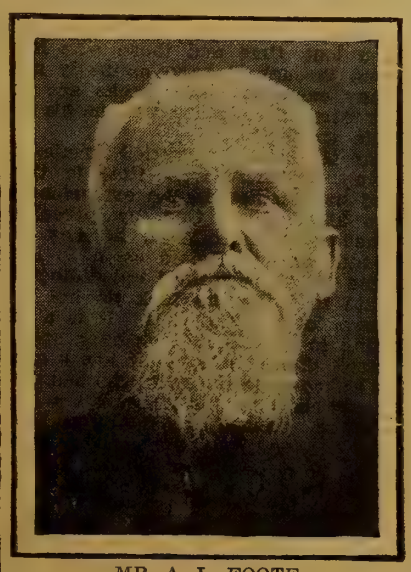
The thin cloth bags that sugar, salt and flour come in make excellent dust cloths. The difficulty is getting the letters and printed stuff out of the bags. This is easily done if the bags are first soaked in a bit of cold water and then boiled in a strong solution of baking soda. The soda takes out the lettering; the bags should be ripped open before washing. Then trim so their edges are straight and hem them on the sewing machine. They are soft and easily kept clean—two requisites for a good dust cloth.

The French braise a great many of their cuts of beef, that is, roast them in the pot. For this purpose they generally chose a piece of rump that is not especially tender. They lard it and make it tender by cooking a long time slowly and steadily. Onions, carrots and herbs are usually added to the beef to flavor it a la mode. This may be a comparatively cheap piece of beef. It is not often more than is needed for one meal, but if it is, it is excellent cold, and may be warmed over in its gravy to advantage.

To make the white sauce, which adds zest to so many Lenten dishes, put a pint of milk, a small slice of onion, and two sprigs of parsley into the double boiler. Blend together in a saucepan four, tablespoonfuls each of butter and flour, then add gradually to the boiling milk, stirring constantly until smooth and thickened. This will take about eight minutes. Season with salt and pepper, strain and serve.

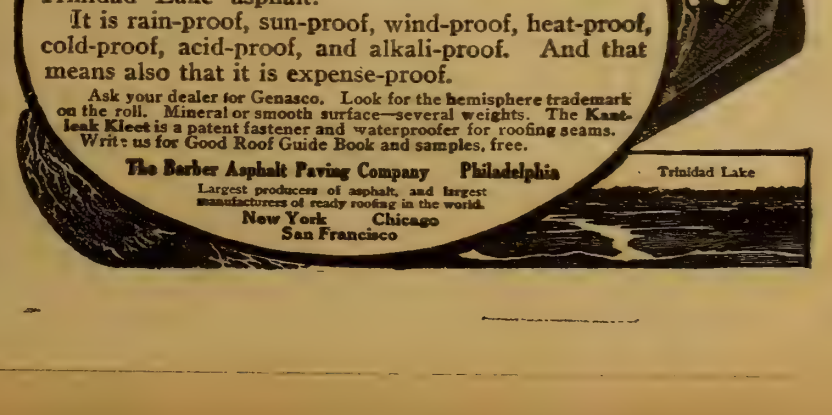
AMONG OURSELVES.

If we had known that January 24th of this year was the twenty-fifth wedding anniversary of our friends, Mr. and Mrs. A. L. Foote, of Fayette, Ia., we certainly would have helped them celebrate by having their pictures then. Fortunately, it is never too late to offer congratulations and good wishes. We herewith do both. When a man reaches sixty, a woman fifty, the very best of life may be before



MR. A. L. FOOTE.

them; we trust it may be so in this case. Mrs. Foote has not been in good health for a couple of years, which is, perhaps, why she is less known in our circle than Mr. Foote, but ill health, like ill fortune, is a passing matter;



It Costs You No More
To Have Safe, Dependable, Brilliant, Convenient Light

Facts show that Prest-O-Lite is the safest, most dependable road light for any vehicle. With the addition of a "push-the-button" lighter, it offers every point of convenience of any other system. You can light and extinguish gas lamps from the driver's seat, if you wish, with the utmost ease and convenience. If anyone claims that any other lighting system "costs less to use than Prest-O-Lite," ask him if he can get a written guarantee to that effect.

Ask These Questions Before Buying.

Will you guarantee to substitue Prest-O-Lite if your lighting system proves troublesome, unreliable and expensive?

Will you guarantee that this car is as speedy, as good a hill climber, as easy on tires, as inexpensive to run, as it would be if equipped with Prest-O-Lite?

Will you guarantee this lighting system to be as reliable, as free from repairs, as efficient and as economical as Prest-O-Lite?

If you cannot get these guarantees, **in writing**, you had better get Prest-O-Lite on your car.

Prest-O-Lite Saves More Than Its Cost

Size "E" Prest-O-Lite costs only $15. This is an investment, as it can always be sold for about this price and never becomes second hand. The exchange fee is no greater than carbide to give you an equal amount of light from your lamps using a generator. New lamps are not needed if you are now using a generator, and even the same tubing can be used.

In its safety and protection, Prest-O-Lite saves you more than its cost. One accident at night might cost you many times the price of Prest-O-Lite. One repair to any complicated lighting system might easily cost you more than years of Prest-O-Lite Service.

Try It 30 Days FREE

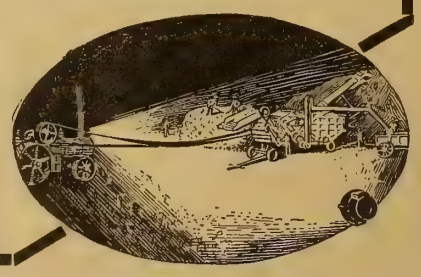
Any Prest-O-Lite dealer will equip your car with Prest-O-Lite and let you use it 30 days. If at the end of that time, you find any of our claims untrue, or are not satisfied in any way, he will take it off your car, refund your money and the 30 days' use is yours absolutely free.

Prest-O-Lite Exchange Service

If you have any doubt as to obtaining Prest-O-Lite exchanges quickly or conveniently, consult your nearest dealer or write to us. We will gladly arrange to give you prompt service. Our literature on Prest-O-Lite and our automatic lighter with full particulars and "Light on the Lighting Problem" giving the **real facts** on **all** lighting systems are yours for the asking.

Prest-O-Lite for Emergencies

Prest-O-Lite is invaluable should night catch you with some important bit of farm work unfinished. It can be set up on the spot in a few minutes, giving you light as bright as day. This one feature should make Prest-O-Lite invaluable to you.



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When Writing to Advertisers Please Mention The Homestead

and when two have weathered the storms of a quarter of a century together their happiness does not depend upon external things.

Mr. Foote's connection with our paper is of long standing. He was a

MRS. A. L. FOOTE.

contributor in the old Institute Special days and when it became a thing of the past he transferred his interest to the Home Department, to the pleasure of our circle members. The letter asking Mr. Foote to write something to accompany the photographs followed him out to Oregon, where he was called by the death of a brother. It was while still there that he jotted down something about old times in the state of his adoption:

Forty-three years ago I came from New York to northeast Iowa. Neighbors of the American class were few and far between at that time, but there were four families almost in a circle in our neighborhood. Several other families five or six miles south, and some a few miles east. Among them there was a goodly number of old country people. Wild land was cheap. Good prairie was as low as $10 per acre. Cattle ran at will over the prairies and the man that raised grain had to build fences for his neighbor's stock. Houses were small, most people had straw barns and very few had a spring wagon. Most people raised wheat as long as it would pay expenses, but about one-third of a century ago wheat failed so northeast Iowa had to quit. It was the best thing that ever happened to the farming interests of northeast Iowa, for the farmers went to raising corn and hay and keeping better horses and hogs. Then they paid for their farms, and built large barns and fine houses and now they can show the best improved farm homes that I know of in the United States and I have been five times from Iowa to New York and Washington, D. C., and I have been over three railroads to and from Iowa to Portland, Oregon. The Iowa farmer that has not got a spring buggy now is certainly an exception; many have automobiles, but here is one man just past sixty-four years old that has no use for an auto. A good, well-broken driving horse is good enough for me. According to what some have written in the past six months for the Home Department there are many people that do not try to enjoy the many blessings God has given us. I think that the last fifty years has been the best fifty years of the world's history, but it seems to me that men and women are wandering farther from God.

In a new country twenty-five years is a long time and those who have lived through it have naturally seen many changes. Our thanks are due our friend for sharing with us his old-time memories.

As Mr. Foote has varied farming by doing carpentry from time to time, and has furthered the extensions of the kingdom of God by preaching when occasion offered, he has had a full life and would seem to have done his share toward upbuilding the state in which he took up his residence as a young man. It is a fine thing to be able to look back upon a useful life. The joy of it has a quality unknown to the man who has nothing to show for his labors but a bank account. Riches may take unto themselves wings, but the character developed by a life of usefulness and unselfishness is a possession of which nothing can rob its possessor. Again we express the hope that the coming years will be kind to Mr. and Mrs. Foote.

A little talk about household appliances by Mrs. Martha M. K. comes next on the program:

In reference to household conveniences and labor-saving appliances we class the washing machine as very important, as work of this kind is so hard and has to be repeated so frequently. When we were first married mother said she would give us our choice of either a washing machine with wringer or a bureau. We chose the washing machine, and, strange to say, never repented, but to finish out this part of the story, when we got to our prairie home we took four soap boxes, of equal size, stacked them up and had them slatted together and firmly nailed. They were papered on the outside and in front we hung a curtain. So we had the bureau too. A sewing machine stands high in the list. It sings a cheerful song, but without it a tired woman sitting down to sew seldom sings. After these comes the cream separator. Of course, an old-fashioned skimmer only costs five cents, while a separator costs immensely more, but after you have used the separator for a time and become thoroughly acquainted with all its desirable qualities you will never hunt for that old tin skimmer, nor even mention it, save in ridicule. The kitchen range is an article of exceeding importance and should always be kept in perfect trim. For warm weather have a gas stove if gas is available, otherwise a gasoline stove can be made to fill its place—any of these will go a long ways toward "saving mother." In the same catalog is the fireless cooker. The kitchen porch should be enclosed with wainscoting below and wire screen above. Here in warm weather the vegetables and fruit can be prepared and the washings done in great comfort with little or no annoyance from insects.

I am glad that Mrs. Martha M. K. mentions the screened porch especially at this time. I do so hope that every woman who has no screened porch will make an effort to secure one this spring. A couple of posts and a few laths will make a frame if nothing better can be managed and by planting quick-growing vines shelter will soon add to the comfort of the screening. It, by the way, can be mosquito netting if the purse will not admit of the wire screening. The thing is for every woman to resolve to have a place out of doors where she can perform certain of her labors and then get the kind of porch which her circumstances permit. I hope to hear of a harvest in this direction as the result of to-day's seed-sowing. And won't some of the friends who have porches tell us about their comfort in them? Please do.

L. H. Gordon comes with a question:

Why is a girl of age at eighteen and a boy not until he is twenty-one? Is it because the girl is the smarter, or that the boy owes his father and mother more labor?

Some of the friends have knowledge and ideas about this matter upon which L. H. Gordon asks information. We shall be pleased to have an expression of opinion.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

LIFE AND THE WEATHER.
(First Prize.)

Vashi, your letter was grand. You are a poet, whether you can write poems or not. If every girl and boy could see beauty in country life as Vashi does there would be a less number leaving the delightful country to live in a noisy city. I am glad that so many of our members are nature lovers. Most people, when looking at a beautiful sunset, or a clear woodland pool, see the thing itself, but do not see the beauty in it. I think they miss the best there is in life.

Bedouin, please tell your friend that went with you on your walk to write a letter for us soon. I, and I am sure many others, will be glad if she will join our circle. Katheryn, your poems are splendid. They have such good lessons in them. Come again and again, Ted, you are about the only boy that writes to this page now. Keep it up, and perhaps some other boys will take courage and follow your example. I enjoyed my walk with you in North Dakota just fine. Some time soon I am going to describe a walk I took,—not a cross-country tramp such as Bedouin took, but a walk in the woods. This week has been what some people call a "dreary, disagreeable week." Dark, threatening clouds have been hanging low in the sky, and a steady patter of rain has been heard. But today the sun is shining so bright, and everything is fresh and beautiful. How like our lives the weather is!

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brings into your home, you wouldn't be without one for a single day.

There is a Victor dealer right in your neighborhood who will gladly play your favorite music.

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For weeks it may seem as if your whole life will be dark and lonesome, and clouds of trouble always hover over your head; but at last sunshine comes into your heart, and the little trouble clouds float slowly away. We appreciate more the joy of living after having days of trouble, just as the day seems so much fairer after a week of dark days.—Morning Glory, Ia., age 16.

Spring.
(Second Prize.)

What does Spring mean? To some people it means mud and water and nasty weather. To some people it means new life. Why, there are all the birds again! How we looked for the first robin! The children shouted and the aged people smiled when the first robin redbreast was spied. What do the brooks tell us? Why, it means new life to them. The chains of winter are torn away by Spring and frees the brook. Listen to a brook as it runs in its course. It sings and murmurs as it flows, sometimes loud and then very sweet and low. What do the tiny blades of green grass, the bushes and trees tell us? They all seem to shout "Spring! Spring!" Ought we not to be thankful we are able to enjoy Spring? It is but a page of Nature, but how beautiful it all is! We can only say as we view the new life Nature puts on, "How beautiful is God's work!" Let us all try to be a living part of Spring, too, and as we breathe the pure spring air, also breathe in new life. We cannot help but be happy like merry birds if we try.—Jewell, Wis., age 16.

The Lost Lamb.
(Third Prize.)

One nice summer day as I was strolling through the woods, I found a little lamb whose foot was hurt and its mother had left it, so I picked it up and took it home and bathed and treated its foot, and soon it got well. After a month or so it could run and jump like all other lambs, but it would follow me all the time, no matter where I went. It was pitiful to hear it bleating when I had to lock it up when I went any place where I did not want it to follow me. One day I locked it up, and I went to town; and while I was gone the lamb got out and went to look for me. She could not find me at home, so she went in the woods where I found it, and stayed there. She thought I might come after it again. So when I came home I asked mama where the lamb was, and she said she did not know, so I went to look for it. By and by I went to the woods to look for it, and soon I heard it bleating. So I went over to where the sound came from, and sure enough, there she was. But, my, how overflowing with joy she was to find me again! I could hardly walk home, for the lamb was at my feet all the time. But she was the best friend I ever had. The following year we moved to town, and papa said I had to part with my lamb next week, for he sold it to a man five miles out in the country. So the next week the man came and took the lamb. My, but if my heart did not feel like breaking, what did? I was not like the same girl afterwards for a long time. Papa said he would give me five dollars for the lamb, but it seemed to me that no money could take the place in my heart that the little lost lamb did.—Evangeline, Minn., age 10.

PLEASANT FIELDS OF HOLY WRIT
Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON
2d Quar. Lesson 6, Gen. 41: 25-40. May 11, 1913.

JOSEPH MADE RULER OF EGYPT —THE STORY.

From the prison-cell to throne room is a startling, abrupt transition. But really Joseph had paved every step of the way, and it had taken him thirteen years to do it. He had gotten the honey out of the eater by submitting to chastening providences. He worked out his own salvation with fear and trembling. At the same time God was working through those beneficent purposes which have always been his pleasure. He intended to bless Joseph and make him a blessing. And Joseph, by his patience, industry, and piety, put himself in the way of getting and being a blessing. Joseph's experiences were trying in the extreme: To be torn away from home and kindred; just when he thought himself a prince, to find himself a slave; after ten years of faithful service, to suddenly and most unjustly lose the confidence of his master; to stand charged with an odious crime, with no chance of proving innocence. It looked to Joseph as if he had traveled the wide circle of sorrow to find himself in the pit once more from which there was the least possible likelihood of his ever being liberated. "Leave all hope behind, who enter here," might well be inscribed on a demijohn dungeon of Egypt. David says they hurt Joseph's feet with fetters, and laid him in iron. And Stephen joins Amos in speaking pathetically of the "afflictions of Joseph." How the tempter must have gibed him! "A pretty fulfilment, this, of all his brilliant dreams!" It was enough to make heart and flesh fail. The average man would have given up to inanity—would have become a spiritless drudge. But Joseph was quite more than an average man. His fortitude and faith shine brightly against the dark background of Egyptian slavery and imprisonment. The young Hebrew made the very best of his circumstances. He acquired the language, observed the manners and customs, detected the defects in public administration, as no native would have been apt to have done. He managed the considerable estates of Potiphar with such fidelity as to prepare him to administer well the vast empire of Pharaoh. And when his environment narrowed down to prison walls, he availed himself of his enforced seclusion to reflect upon what he had observed. He kept himself unpolluted by the vices incident to prison life. Like a swan, he sailed down the corridors reeking with moral filth, and kept himself unsullied. Wherefore God highly exalted him and gave him a name above every mortal name of his age. We say God did it; and we have just said Joseph did it. Paradoxical, but true! There is no clearer example of the co-operation of the Divine and human. Joseph worked and God worked. The result was, the prisoner was metamorphosed into the prince.

THE FUTURE OF FARMING.

It is not for nothing that more boys every year go to school to learn to be farmers, says the Pittsburgh Press, even city-bred boys. Germany, to use one illustration, with an area not as large as Texas, and with land naturally no better, to say nothing of the much longer time it has been under cultivation, supports two-thirds as many people as there are in the whole United States.

Germany does this because it has to. That is the reason we shall do likewise. Necessity is the prolific mother of efficiency. Before another generation has passed the great sums of money now tied up in privately owned street and steam railways, lighting and power plants, telegraphs and telephones and other public utilities in which the returns have been attractive during our careless years will be seeking new investment. Because more and more the people at large will be taking these enterprises over. And then where will it go? Where can it go save into farming—into the development of the one kind of natural resources which is well-nigh universal, which yields inexhaustible returns and which we cannot get along without.

This is going to mean, of course, a great call for skilled workers—for men to make themselves to farming what our captains and corporals of industry, in the generation past, have been to manufacturing, railroading, commerce; only, we hope, newer minded, fairer.

Already the demand for competent farm managers and specialists exceeds the supply. The bright lad who qualifies for such work even now can command in his first years after quitting school better pay than comes to the newly fledged lawyer or doctor or engineer. Moreover, his work is on the level, in the open, healthful, wholesome and productive. He doesn't live upon the weakness or follies or misfortunes of others. He makes his own way. He leaves society better each night for his day's work. It is an inspiring outlook, a real beckoning to the best that is in human nature.

The Biggest Thing in the Clock Business

Big Ben is the biggest thing today in the alarm clock business.

He is only two years and a half old, but he's already getting more work from the States than any clock alive.

In two years and a half time, 18,000 jewelers—70% of the total number of United States watchmakers — have already adopted him. Two million and a half families leave it to him to call them up in the morning. Two million and a half families use him all day long to tell the right time by.

He is really two good clocks in one—a crackerjack of a timekeeper and a crackerjack of an alarm.

Big Ben stands seven inches tall. He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves. He rings *five minutes steadily or ten intermittently.* If he is oiled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is $2.50 anywhere in the States, $3.00 anywhere in Canada. If you can't find him at your jeweler's, a money order mailed to *Westclox, La Salle, Illinois,* will send him anywhere you say, express charges prepaid.

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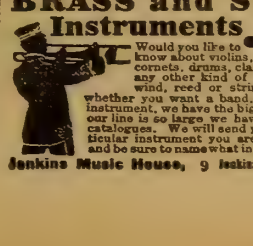

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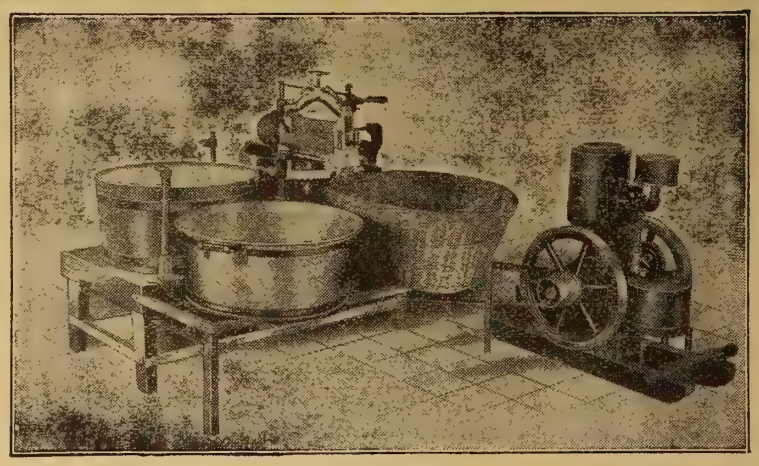

Save The Woman

Save Her Time—Save Her Work

What would you think of a farmer who gave a man a sharp stick to plant corn with instead of a corn planter?

There's just as much sense in sending a man out to plant corn with a sharp stick as in asking a woman to wash clothes on a washboard. Both are ancient relics. Today there is a *better*, *easier* and *quicker* way to wash clothes, and that way is with

The ONE MINUTE Bench Washer

The Hand Power "One Minute"

Guaranteed to wash clothes clean *quicker* and to run *easier than any washing machine made.*

It runs so light and easy that a four year old girl can make play work with it.

Has *high speed* fly wheel and *pressed steel noiseless gears.* All friction parts work on ball bearings.

Compound lever permits using hand or foot lever or both at the same time, and drives the machine on *50% less power than any hand power washer ever heard of.*

All parts *guaranteed for life.*

Ask your dealer to demonstrate it for you.

Here's an outfit that will save the *hardest part* of washday work.

Instead of having to pull and haul or lift heavy rinse tubs full of water, all the work can be done in one place by simply swinging the reversible wringer around to any one of *four positions.*

The washer has the famous "ONE MINUTE" construction. Washes clothes *absolutely clean*, does not injure the finest fabric.

Has noiseless gearing.

The bench is mounted on a steel frame, with a post in the center for the wringer. Has steel frame folding rack for the rinse tub and basket.

The washer and wringer can be operated at the same time, or separately. The transmission is mounted on heavy angle iron.

Entire outfit includes the Bench, washer, wringer, rinse tub, rack and all the transmission, just as shown above.

The *washer tub*, *rinse tub* and the *bench platform* are made of cypress, the wood that never rots. All fully guaranteed against defects for its entire lifetime.

Any engine can drive it, we furnish the one illustrated here when desired.

Look up the dealer in your town who sells the "One Minute" washer. He is a good man to know, and will be glad to show you this outfit.

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Go to the Clothcraft store. Ask especially for 5130, the Clothcraft Blue Serge Special at $15.00. Look for the Clothcraft label and the guarantee.

If you can't locate the Clothcraft store, write us. We will send you a card of introduction to the nearest dealer, a Clothcraft Style Book for Spring and a sample of 5130 Serge.

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OUR FASHION•DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

4911 Ladies' Apron.—An apron that completely covers the dress is just the thing for kitchen wear. It fastens with a single button at the back. Linen or gingham can be used to make this apron.

The pattern 4911 is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 5 yards of 36-inch material. Price of pattern ten cents.

4888 Children's Underwear.—Waist, drawers and petticoat are provided in this pattern. The waist has the usual seams and fastens in the back; it also has a stay for the buttons. The drawers open at the sides, the petticoat in the center of the back. Muslin or longcloth can be used for drawers and petticoat and muslin or jean for the waist.

The pattern 4888 is cut in sizes 2, 4, 6, 8 and 10 years. Age 6 requires for waist, ⅝ yard; drawers, ⅞ yard; petticoat, 1⅛ yards, 36 inches wide. Price of pattern ten cents.

4735 Middy Dress.—There is no style for girls as well liked as the middy or sailor frock. This becoming one is sure to please. The blouse is made to slip on over the head and the kilt skirt is joined to a tight-fitting waist. Serge, linen or gingham can be used to make this dress.

The pattern 4735 is cut in sizes 6, 8, 10, 12 and 14 years. Age 8 requires 3¼ yards of 36-inch material with ⅜ yard of 27-inch contrasting goods. Price of pattern ten cents.

5700 Children's Night Gown.—This night gown is plain and easily constructed and results in a comfortable, nice-looking sleeping garment. Cambric or muslin can be used for developing.

The pattern 5700 is cut in sizes 2 to 12 years. Medium size requires 3⅞ yards of 27-inch material, 2⅛ yards of edging. Price of pattern ten cents.

4593 Children's Rompers.—Every small boy and girl needs a pair of rompers and here is an excellent pattern for making such a garment. This garment is made in one piece and buttons at the back.

The pattern 4593 is cut in sizes 1, 3 and 5 years. Size 3 years requires 1½ yards of 36-inch material with ½ yard of 27-inch contrasting material to trim. Price of pattern ten cents.

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NEWS OF THE SALE RING.

(Continued from page 11.)

Lily Britest Canary, calved 1911; Thos. B. Buell 210
Milly Korndyke, calved 1905; Weichman Bros. 400
Clapp Beauty, calved 1903; Weichman Bros. 350
Aaggie Cordovia Miss 2d, calved 1911; Sigrist & Aebersold 270
Locust Grove Mary De Kol, calved 1910; W. M Kenman 405
Eva Segis, calved 1912; Thos. B. Buell 215
Bodera Segis, calved 1911; L. S. Reichenbach 200
Regola Edina Princess 3d, De Kol calved 1907; Thos. Johnson 256
Regola De Kol, calved 1907; Weichman Bros. 380
Regola Edina Princess 4th, calved 1907; Lawrence Paumier 310
Spring Hill Hengervild Lady, calved 1910; Cyrus Rimer 280
Maple Knoll Parthenea, calved 1909; H. W. Parker, Chagin Falls, Ohio 320
Eola Hengerveld Parthenea, calved 1911; D. A. Ely, Peninsula, Ohio. .450
Nazli Johanna Korndyke, calved 1911; John F. Janssen 255
Johanna Lady Korndyke, calved 1910; John F. Janssen 295
Ida Lyons Teehee De Kol, calved 1912; John F. Janssen 155
Cybele Teehee Fame, calved 1912; John F. Janssen 155
Otley Irene Shadeland, calved 1908; Thos. Johnson 340
Heifer calf, calved 1913; C. F. Hunt 160
Wixon Zinnia, calved 1909; Frank Horton 325
Hamming Queen 2d, calved 1909; Weichman Bros. 370
Inlet Valley Princess, calved 1910; Weichman Bros. 250
Duchess Dewdrop, calved 1902; F. M. Watt 305
Pearl Pet, calved 1907; Sam Warren 255
Ethelyn Princess, calved 1903; Weichman Bros. 210
Langtry Zinnia Mercedes, calved 1909; Weichman Bros. 235
Bendy Bolton, calved 1905; Weichman Bros. 240
Nansena Inka De Kol 2d, calved 1908; John F. Janssen 460
Heifer calf, calved 1913; J. E. Ropp 135
Heifer calf, calved 1913; R. M. Roberts 155
Jaunty Abby Fayne, calved 1912; K. S. Wilson 165
Leila Cornucopia De Kol, calved 1912; J. B. Kagey, Louisville, Ohio 300
Bos. Korndyke, calved 1906; Sam Warren 435
Hallie Mayo, calved 1903; Weichman Bros. 400
Clarice Filled, calved 1906; R. M. Roberts 400
Beach Maid Clothilde, calved 1908; Weichman Bros. 200
Agnes of Pleasant View Farm 5th, calved 1907; Weichman Bros. 285
Jesse James Lady 2d, calved 1907; Weichman Bros. 240
Jennie Nudine Pietertje Prilly, calved 1912; Sigrist & Aebersold 200
Princess Izetta Oak Ormsby, calved 1909; Weichman Bros. 205
Grandeur 3d Dot 4th, calved 1905; Weichman Bros. 485
Grace Netherland Dawn De Kol, calved 1908; Weichman Bros. 450
Aaggie Johanna De Kol, calved 1907; Weichman Bros. 400
Violet De Kol Pauline Aaggie Johanna, calved 1906; Weichman Bros. 400
Caroline Mechthilde 2d, calved 1908; John F. Janssen 240
Pauline Masterpiece, calved 1913; J. E. Ropp 150
Bernice De Kol Count, calved 1911; Weichman Bros. 280
Maple View Topsy, calved 1906; Weichman Bros. 275
Hengerveld Trisby De Kol Girl, calved 1912; G. A. Wright, Bellevue, Ohio 225
Sunshine Clothilde, calved 1908; Weichman Bros. 275
Aaggie Jewel De Kol Artis 4th, calved 1908; Thos. Johnson 395
Marilla De Kol Butter Lady, calved 1910; Weichman Bros. 300
Leona La Queen Butter Lady, and c. c., calved 1910; F. H. Powell.. 375
Leona Beets Korndyke De Kol, calved 1912; John F. Janssen 155
Clothilde Aaggie Abbekerk, calved 1909; Thos. Johnson 395
Ramona Korndyke Pietertje, calved 1913; R. M. Roberts 300
Leona Langtry Meganty, calved 1905; Weichman Bros. 560
Heifer calf, calved 1913; Iowana Farms 275

SUMMARY.

193 cattle ..$58,580; average....$303.50

Bryson's Short-horn Sale.

A large crowd attended the Short-horn sale of W. H. Bryson, Lake Fork, Ill., April 29th, bidders and buyers being present from Illinois, Indiana, Iowa and Missouri. The fact that the offering was mainly of the so-called plain-bred families, there being very few Scotch-bred animals in the sale, probably kept away some persons, but those who wanted cattle of the beef type irrespective of whether they possessed fashionable pedigrees or not, had an opportunity to make selections from a good bunch, and the fact that the fifty-nine head sold made the satisfactory average of $153 was sufficient evidence of the strong demand for cattle at this time. With but very few exceptions all the cattle in the sale were bred by Mr. Bryson, and were a credit to him and his methods of producing healthy, prolific Short-horns. He raises his cattle under conditions that tend to future usefulness, and those who bought at this sale can feel sure they will get satisfactory results from what they secured. The top of the sale was $350; paid by J. N. Horn, McLean, Ill., for Golden Edgewood, the four-year-old Scotch-bred herd bull, sold by Mr. Bryson because he has so many of his daughters in the herd. He is a bull of much excellence, a strong breeder, and was secured at a conservative price. The demand for bulls was very strong, sixteen selling for an average of $170. A. G. Danforth & Son, Washington, Ill., got good value in Pride of the Realm, a two-year-old son of Golden Edgewood, at $310. These gentlemen were strong bidders all through the sale, securing eleven head of the best things in the offering. The good Scotch-topped Young Phyllis bull, Captain Edgewood, went to Hugh McCormick, Pawnee, Ill., at $300. Sni-a-Bar Farm, Green Valley, Mo., was a liberal bidder, getting several head. It is a refreshing event to have a bunch of cattle sell on their individual merits, as this lot did, and not be discriminated against owing to pedigrees. It shows a tendency on the part of the public to buy cattle for their real worth. The sale was successfully carried out under the direction of Charles Schmitz, who has much experience along this line, and Mr. Bryson made friends by his exceedingly satisfactory manner of doing things. The selling was done by Col. Carey M. Jones, ably assisted by Col. B. H. Keck, and the following is a report of all sales amounting to $100 or over:

FEMALES.

Buchan Lady, calved 1904, and b. c.; George Houston, Vandalia, Ill. $205
Alexia, calved 1907, and b. c.; J. O. Bozarth, Gillum, Ill. 130
Fair Lady, calved 1911; Sni-a-Bar Farm, Green Valley, Mo. 200
Flossie, calved 1907, and c. c.; A. G. Danforth & Son, Washington, Ill. 200
Roan Duchess, calved 1909, and c. c.; Sni-a-Bar Farm 140
Red Duchess, calved 1912; J. F. Robinson, Roachdale, Ind. 105
Belva, calved 1912; J. F. Robinson 105
Roanoka Lady, calved 1911; Sni-a-Bar Farm 200
Young Snowflake, calved 1912; J. F. Robinson 105
Daisy, calved 1905, and c. c.; C. M. Patton, Divernon, Ill. 115
Edith, calved 1910, and c. c.; John Goodwine, Potomac, Ill. 140
Minnie, calved 1908, and b. c.; A. G. Danforth & Son 130
Fairy, calved 1911; Sni-a-Bar Farm 200
Dene, calved 1912; Jos. Rich, Washington, Ill. 125
Willa, calved 1909, and c. c.; A. G. Danforth & Son 200
Bonnie Queen, calved 1904, and c. c.; Hugh McCormick, Pawnee, Ill 180
May, calved 1908; A. G. Danforth & Son 175
Mildred, calved 1912; J. F. Robinson 105
Jue, calved 1909; A. G. Danforth & Son 140
Miss June, calved 1912; Jos. Rich.. 125
Bessie, calved 1911; Sni-a-Bar Farm 155
Clara, calved 1907 and b. c.; A. G. Danforth & Son 130
Forestine, calved 1909; Sni-a-Bar Farm 200
Belle, calved 1908; A. G. Danforth & Son 250
White Rose, calved 1911; John Gaffney, Rochester, Ill. 135
Ruth, calved 1906; W. B. Black, Mt. Zion, Ill. 150
Pearl, calved 1907; J. O. Bozarth.. 105
Iva, calved 1904, and c. c.; J. Hill, Illiopolis, Ill. 160
Belle of the Forest, calved 1911; Sni-a-Bar Farm 190
Isabelle, calved 1912; J. F. Robinson 105
Kate, calved 1908; W. L. Black.... 130
Kathleen, calved 1910, and c. c.; A. G. Danforth & Son 155
Snowdrop, calved 1911; John Gaffney 135
Rosebud, calved 1912; Leslie & Son Houston, Ill. 155
Miss Snowdon, calved 1907; David Briggs, Cantrall, Ill. 100
Stella, calved 1911; Sni-a-Bar Farm 155
Maid of Lake Fork, calved 1911; Sni-a-Bar Farm 140
Fern, calved 1912; Jos. Rich..... 125
Flora, calved 1907, and b. c.; A. G. Danforth & Son 175
Booth, calved 1912; Jos. Rich..... 125

BULLS.

Golden Edgewood, calved 1908; J. N. Horn, McLean, Ill. 350
Glorious Dale 2d, calved 1912; Robt. Durham, Oreana, Ill. 125
Ruler, calved 1912; J. L. Kitterman, Princeton, Ill. 175
Pride of the Realm, calved 1911; A. G. Danforth & Son 310
Linwood, calved 1912; J. F. Robinson 120
Gloster King, calved 1912; A. G. Garber, Auburn, Ill. 120
Oakland, calved 1912; John Kitterman, Princeton, Ill. 170
Laudable, calved 1912; W. S. Simpson, Mt. Pulaski, Ill. 105
Golden Banner, calved 1912; J. C. Sayler, Cissna Park, Ill. 150
Captain Edgewood, calved 1912; Hugh McCormick 300
Silver King, calved 1912; Fred Belatti, Mt. Pulaski, Ill. 120
Silversmith, calved 1912; A. A. Storey, Assumption, Ill. 155
Marshal King, calved 1912; Mat Minder, Lincoln, Ill. 125
Frederick, calved 1912; J. L. Kitterman 155
Royal Edgewood, calved 1912; Chris. Kitterman, Princeton, Ill. 180

SUMMARY.

43 females ....$6,330; average....$147
16 bulls ..... 2,725; average.... 170
59 cattle ..... 9,055; average.... 153

Saving the Corn Crop.

There is no doubt that ground squirrels and gophers do an immense amount of damage to the corn crop during the month of May. It is good farming to undertake to prevent this loss. Prevention of the best sort is to try a package of the preparation advertised as Gopher Death, the announcement of which will be found on page 18 of this paper. This preparation has been used successfully for a good many years and is highly recommended by this paper. It is inexpensive, easily applied and as effective as any poison that can be obtained. It may be secured from druggists at the price named in the advertisement or orders will be filled direct by the Fort Dodge Chemical Company, Dept. W., Fort Dodge, Iowa.

Frank Iams' Wonderful Bargains.

Mr. Frank Iams, St. Paul, Neb., has decided to clean up and he therefore must sell twenty Percheron and Belgian stallions in the next thirty days. Concerning his offering he says: Mr. "Wise Buyer," Iams is "closing out" all his stallions at little at ve cost. Is the "town talk." Iams' special. Reduced prices are greatest bargains ever offered. Don't wait—take first train. Visit "Iams" "horse emporium"—today. He has "reduced prices" from $100 to $500 each on "business" and "show stallions." "To "close out" all his "stallions." They will "positively" be sold at "some price." "Ikey," "come on along" and get a "big slice" of "Iams' melon" at "Knock-out prices" for "top notchers"—you will positively buy of Iams. If you visit him and want big, drafty "prize winners," Iams has all the largest and best "business horses" and all his choice "Paris and Belgian" prize winners are in his barns. "Iams'" "tops" of "his herd" are always in his barns at the "last end" of the season. "Iams" has twenty imported "Paris and European" prize winners. They are Iams' "champion show herd" and the best ten stallions and mares in the United States. "Ikey Buyer," its a "100 to 1" that "1913 crops" will be best in ten years. Don't wait to buy a "top notcher" until next year—buy now—save $1,500 and buy a "Paris winner" that you can't always get a chance to buy—cash or one year's time at 8 per cent, bankable note; two year's time at 6 per cent—land security. His "Peaches and Cream" stallions go at $1,000 and $1,200 (few little higher). "Ikey Boy," see Iams now and buy 'top notchers" at a little above cost, as all of Iams' horses will positively be sold. Be a "wise guy" buyer and save $1,500. Buy a "Paris winner." "It's up to you," "Mr. Stallion Buyer," buy a "through ticket" to "Iams' horse town." Walk right in and say "hello." Iams will meet you with a "$1,000 smile" and treat you like "a prince," and there are "some doin's" there daily. Iams' big "ton," superb, classy imported stallions and Iams' low-cut prices "show and business stallions Paris prize winners" make all buyers "sit up and take notice" and can't be driven away until they own one of Iams' "top notchers" at his "bargain counter" prices. Iams and the "Pink Lady saleslady" will not let any buyer with money or good notes get away. "Ikey, come on along." Buy imported horses today. Don't wait, as all Iams' top notchers must be sold in the next thirty days. They are "big snaps." That is why Iams and the "Pink Lady saleslady" are reducing prices on "show and business" stallions and big mares. He made a "killing" buying these "top notchers" and to close out and have new faces he has determined to sell and give buyers the benefit of his "good buy" in 1912. "Ikey horsemen," Iams' six financial letters of recommendation from six of the best banks in Nebraska (shown in his 1913 catalog) tell you why you should buy imported stallions of Iams. His thirty-one years of successful business—his "one-half million dollars" behind his guarantee—the fact that he is a "live wire" business man and expert horseman—in a "class by himself." He makes all competitors "get hammers" out for Iams, but every "knock" is a "boost" for Iams, as when stallion buyers visit "Iams' horse emporium" they find Iams has the horses as represented and that Iams "makes good" and his "old customers" are his "whole page advertisers." "Ikey," "get busy" quick, buy show horses of Iams at "reduced prices," and "wear diamonds." Iams is sure taking "the curl" out of "high prices" on the best bunch of real "top notchers" ever offered for sale in the United States—all "show horses" and at less price than for ordinary stallions. He is making buyers "go fast" to get his "big bargains" and his buyers will be on "Easy Street" if they buy stallions and mares now of Iams at closing-out prices. Iams is positively "closing out" his horses. A "change of business" forces Iams to sell his stallions at "some prices."

A Growing Nebraska Institution.

We are pleased to present to our readers the acompanying illustration which represents a single day's shipment of eggs for hatching. This great lot of eggs was shipped by the Nebraska Poultry Company, Clay Center,

Neb., and Manager Holcombe, in a recent letter, accords a great share of the orders to his advertisement in this paper. The Nebraska Poultry Company has been rapidly growing in public confidence because of its close attention to the interest of patrons and fair treatment of them.

The Heider Book on Tractor Farming Free

Find out how to solve the hired help problem and cut your farm operating expenses 50%. You can't afford to be without the Heider Tractor, because it will do any kind of work in the field, belt or on the road at the lowest possible cost.

A CHANCE TO BECOME A MEMBER OF A COMPANY MANUFACTURING WELL-KNOWN GOODS MANY YEARS IN MINNESOTA.

THOUGH product is nearly $200,000 yearly, as demand exceeds supply, wanting to increase our capacity, will take in partners to the extent of $15,000 or $20,000. If you want an interest in the coming business, here is your opportunity to buy shares of a capital stock, paying large dividends. Company is perfectly sound. Our references are Dun's and Bradstreet's Agencies. We only want this amount of additional capital. First come, first served. You may take whatever number of shares you desire, a large or small amount, but write quickly, if you want any, addressing our representative who is authorized to receive and forward correspondence to us. **L. K. LEE, Dispatch Bldg., St. Paul, Minn.**

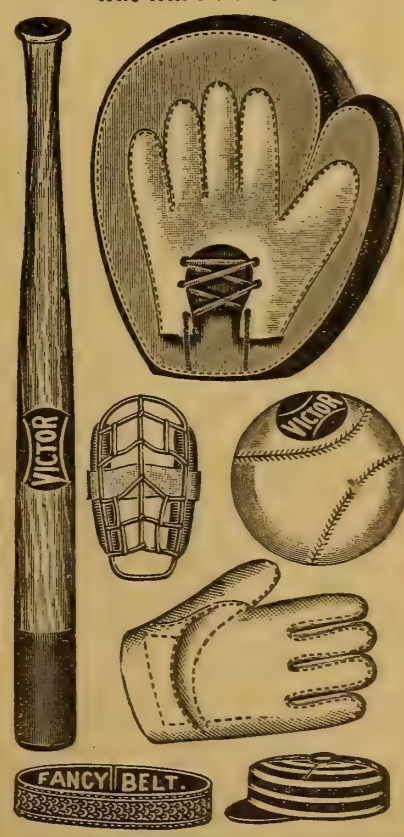
BARGAIN SEED

LEAMING Yellow Corn. Bred up in oil and protein, yields up to 100 bushels of grain and from two to five tons more ensilage per acre than most varieties. To close out we are making a price of $2 per bushel in less than 5-bushel lots. Over 5 bushels $1.75 per bushel. All shelled and graded and guaranteed to test 97 per cent germination. Address
WOODLAWN FARM, STERLING, ILLINOIS

KENTUCKY TOBACCO Five pounds or more 30c per pound. From grower to consumer, prepaid by mail. Guaranteed pure selected natural leaf, strong, mild or medium. For smoking or chewing. Reference, any bank in Owensboro. Remit by money order. No samples. Address Charles T. Daniel, Dept. 7, Owensboro, Ky

Free To Boys

I Have a Glove, Mitt, Mask, Ball, Bat. Cap and Belt for Every Boy Who Will Write to Me.



There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.
A. M. PIPER, 304 Popular Building, Des Moines, Iowa.

When writing to advertisers please mention The Homestead.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

May 27, P. J. Donohoe, Holbrook, Iowa.
June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.

June 3, Thos. Stanton, Wheaton, Ill.
June 4, John M. Bay, Aledo, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Rees & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.
June 13, Whitsett Bros., Preemption, Ill.

Hereford Cattle.

May 6, Breeders' sale, R. T. Thornton, Mgr., 1309 E. 15th St., Kansas City, Mo.

Holstein-Friesian Cattle.

Oct. 21-22, Woodlawn Farm, Sterling, Ill.

Guernsey Cattle.

May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.

Poland China Swine.

Aug. 20, Williams Bros., Villisca, Ia.
Sept. 3, W. E. Zimmerman, Neola, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 23, Ed. Seckington, North English, Iowa.
Feb. 4, W. H. Cooper, Hedrick, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Block, Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Holstein cows are advertised on page 13 by W. C. Kenyon, Elgin, Ill., He always has on hand 150 to 200 head to select from, all high-grade cows and heifers due to freshen soon, and will price them worth the money.

In an advertisement on page 25 our readers will find the announcement of J. H. Kelly, Altoona, Iowa, offering for sale a number of small ponies. These are sound and rare beauties. Mr. Kelly can provide matured ponies or colts, as the buyer may wish.

The old original big spotted Poland Chinas are bred by H. L. Faulkner, Jamesport, Mo., the only man who never hesitated when the blacks with just six white points were all the rage. Note page 26 for Mr. Faulkner's advertisement and when writing him kindly mention this paper.

G. F. Marshall, Monroe, Iowa, the well-known Poland China breeder, has not as many pigs this spring as usual. He only has about fifty spring pigs, but he is fortunate in having about forty head of fall boars and gilts that look mighty good. These fall pigs are sired by his great herd boar, Giant King.

W. J. Butler, Ottawa, Ill., is making some extra attractive prices on Percheron stallions and mares in order to move them before the close of the season. While Mr. Butler has had an excellent trade this season, he still has a number of good ones in his stables, and if you are in the market for bargains it will be to your interest to get in touch with him. See advertisement on page 28.

Howard Niswander, Kinross, Iowa, who dispersed his herd of Hampshire hogs last October, owing to ill health, has returned to his farm after spending a few months in the West feeling much improved. He has reestablished a herd of Hampshires and has now a much better herd than ever before. He has over 100 spring pigs sired by some of the best boars of the breed. We will have more to say of this herd later on.

Among the enterprising farmers of Iowa who aim to make the most of farming in its different branches, we may name John I. Dripps, Springville, Iowa. Mr. Dripps is a prominent breeder of Poland Chinas, and in that line has attained the highest success. He has also taken great interest in Holstein-Friesian cattle and at a recent public sale in Illinois purchased seven head of extra good cows at from $200 to $220 per head.

In an advertisement on page 25 L. J. Baird, Ames, Iowa, advises our readers that for personal reasons he wishes to sell out his entire stock of Percheron horses. He has stallion colts as well as yearlings, two year olds, three year olds and four year olds, most of which will develop into ton horses. Quick buyers will get some bargains in this lot. He has also seven brood mares from two to six years old. Don't put off, but go at once and get the choice of the lot. Address L. J. Baird, Ames, Iowa.

A. V. Lock, the well-known live stock artist of Remington, Ind., announces that early in June he starts on a trip through the West sketching pure-bred live stock. Mr. Lock's reputation as an artist is of the very best and those who wish to have work done for the fall fairs or for the season's advertising will do well to get into communication with him. See advertisement on page 25 and write to the address named for further particulars.

U. G. Davidson, that vet ran breeder of Duroc Jersey hogs now located at Algona, Iowa, advises us that he has a few fall boars, sired by Golden Model Jr., and out of dams by Crimson Wonder I Am, that are extra heavy boned and of more than average quality. Two of these are out of a litter sister to the great son of Crimson Wonder I Am now at the head of the B. C. Marts herd. They are strictly good ones. See advertisement on page 25 and write to U. G. Davidson, Algona, Iowa.

In an advertisement on page 9 T. A. Gough, Bristow, Iowa, informs our readers that he has for sale rough-coated Collie puppies. Mr. Gough's breeding stock came from the best kennels of Iowa and Illinois as well as from imported stock. He has one litter by Imp. Billesley Brother, which has been pronounced the best Collie ever sent to this country. These puppies give satisfaction to the purchasers. They are elegible to record in the A. K. C., and pedigree will be furnished with each animal. Address inquiries to T. A. Gough, Bristow, Iowa.

P. W. Weberg, Denison, Iowa, reports 100 Duroc Jersey spring pigs and all doing well. They are sired by Crimson Wonder 3d, his noted grand champion boar; C. H.'s Special, his 900-pounds boar, and a number by the noted King The Col. He has quite a few pigs by several of other more noted herd boars and he is going to be right for the fall trade if nothing happens. He has a number of litters by Crimson Wonder 3d and C. H.'s Special that the boys are going to want this fall, and those who are going to want a herd boar the coming season should arrange to buy one of these. Mr. Weberg will be glad to hear from Homestead readers at any time or will be glad to show them his herd.

Messenger Offers Hampshire Boars.

Clayton Messenger, Keswick, Iowa, is offering for sale four fall boars and two aged boars. They will be priced worth the money to quick buyers. Mr. Messenger has 250 spring pigs largely sired by his great boar Messenger Boy, but he is not pricing these pigs yet. See page 25 and write Mr. Messenger mentioning The Homestead.

Angus Bulls for Sale.

On page 25 H. R. Davis, Corning, Iowa, advertises Aberdeen Angus bulls for sale. Among the number is a two-year-old sired by the Blackbird bull Blackbird Dan, and several younger bulls sired by the double-bred Blackbird bull, Sir Blackbird. Mr. Davis wants to sell these bulls and he is pricing them right. Write him at once or go and see him and kindly mention The Homestead.

Westrope Offers Short-horn Bulls.

On page 27 J. G. Westrope, Harlan, Iowa, advertises some good young Scotch and Scotch-topped bulls for sale and he has some that will make splendid herd bulls. He has an outstanding good young bull that is right for the man that is wanting something that will make a decidedly good herd bull. It will pay you to go and see this bull if you are on the market for a herd header. Write him right away and kindly mention The Homestead.

American Goods for Sale.

Some enterprising Short-horn breeder who is on the market for a good herd bull should buy American Goods, that great son of Imp. Choice Goods, now offered for sale by W. H. McLaughlin, Shelby, Iowa, on page 27. He is just in his prime and he is pricing him where he is well worth the money to some good breeder who wants to buy a herd bull. He also has ten or twelve young bulls for sale. When writing Mr. McLaughlin kindly mention The Homestead.

Saunders Selling Bulls.

That old reliable breeder, C. A. Saunders, Manilla, Iowa, has a few choice young bulls left and one of the best of these is a Gypsy Maid that we referred to some weeks ago. This bull is good enough to head the best of herds. He has a few others that are also very choice. Trade in bulls with him has been very good of late and if you should want one of these you will have to get busy and go and see him at once. When writing him kindly mention The Homestead. See page 27.

W. H. Cooper's Poland Chinas.

W. H. Cooper, Hedrick, Iowa, has just closed one of the most successful seasons he has ever had as a live stock auctioneer as well as a breeder of big-type Poland Chinas. Mr. Cooper has been one of the most successful breeders of big-type Poland Chinas in the corn belt and there are two things that have been largely responsible for this success. One is the fact that he has gotten together a lot of sows that for size, bone, quality and smoothness, can hardly be surpassed, and another thing, he has always made his word good in every case. In his long experience he has never had one dissatisfied customer who had a right to feel dissatisfied but what Mr. Cooper very willingly made things right. A representative of this paper recently visited Mr. Cooper's farm and found everything in a very prosperous condition. The pig crop this spring is in fine condition and several have already been sold for June delivery. The spring pigs are largely sired by Big Expansion and Big Bone 2d, two of the good boars of the breed. See Mr. Cooper's advertisement on page 26 and write him, mentioning The Homestead.

Duroc Jersey Fall Boars.

On page 25 Fred Swan, Missouri Valley, Iowa, advertises fourteen good fall boars for sale. These are sired by Golden Gano, a son of that noted show boar Golden Model 17th and out of a Gano-bred dam. These boars are out of some of the best sows he has on the farm. He is pricing these at $25 to $40. He has 300 head of spring pigs sired by ten or twelve of the leading boars of the breed and he is offering these for sale singly, in pairs or trios, and will make the price right. Send him your order at once for one of these boars and kindly mention The Homestead.

R. G. McDuff's Duroes.

R. G. McDuff, Monroe, Iowa, has a fine lot of spring pigs about half of which are sired by I Am A Crimson Wonder 2d, the great boar now at the head of the Swan & Ellis herd. These are a promising lot of pigs. Mr. McDuff has a litter of nine by King The Col. and a litter of eight by Col. Gano that are extra good. He has about fifty sired by Col.'s Chief, a grandson of the Illinois grand champion, Chief's Col. Mr. McDuff will dispose of his boars privately, but will hold a bred sow sale January 23d when he will sell an exceptionally good lot of sows of the best breeding obtainable.

William Reed's Fall Boars.

William Reed, Rose Hill, Iowa, one of the best breeders of Duroc Jerseys in the state, is offering a few extra good fall boars sired by Chief Select and Reed's Top Col. Mr. Reed has the best lot of fall boars the writer has seen on one farm in many days. Among them are boars that if properly fitted would be winners at any state fair. The breeding is as good as the individuality and any breeder in need of a high-class herd boar should write Mr. Reed at once, or better, visit his farm and see for yourself. See page 27 and when writing kindly mention The Homestead.

Chester White Fall Boars.

G. O. Satre, Jewell, Iowa, a young Chester White breeder who has made a good start towards establishing one of the strong herds of this strain, advertises some fall boars on page 25 of this issue. These pigs are out of the best sows in the herd as Mr. Satre uses only this sort to raise fall pigs. This fact with the good winter also considered means a thrifty lot of pigs grown out well and healthy in every way. He also offers a two-year-old boar which is sold through no fault, there being much of his stock kept in the herd for breeding purposes. Write Mr. Satre now for his choice pigs. Address G. O. Satre, Jewell, Iowa.

Fred Swan's Durocs.

Three hundred spring pigs is some number. That is what Fred Swan, Missouri Valley, Iowa, now has on his farm and it looks as though he is going to be right for the fall trade. He recently bought old Educator, one of the best living sons of old Ohio Chief, and he is breeding a lot of sows to him for fall litters. He has a splendid litter out of O. R.'s fine sow, the one that topped the Seddons sale last winter and these pigs are sired by Col. Gano, and they certainly are good. Another good litter out of an Advance sow is sired by Proud Iowa Chief, and he has others by Golden Gano, Crimson Wonder 3d, C. H.'s Special and High Ridge Muncie. Just now he is offering fifteen good fall boars for sale and these are sired by Golden Gano. If any of our readers want one of these they should write Mr. Swan at once.

Pitz & Adams' Poland Chinas.

One of the newer herds of Poland Chinas of Nebraska that is entitled to consideration is the herd owned by Pitz & Adams, Plattsmouth, Neb. These gentlemen have been busy the past year or two assembling a head of sows that would make them a foundation fully as good as the best. They have done much toward this end, and today their herd of sows will compare very favorably with the best herds of the country. They have a nice bunch of spring pigs, and by several sires. Sows were purchased last winter from the herds of Mr. Lonergan and also some very select purchases made from the Thos. F. Walker & Son herd. These gentlemen are now booking orders for spring boars, and we bespeak for them the consideration of Homestead readers. When writing kindly mention this paper. See advertisement on page 25.

August Gorder's Poland Chinas.

A good many breeders of Poland Chinas will remember August Gorder, Plattsmouth, Neb., as the buyer of the sensational show pig at the Nebraska State Fair, Futurity Jack. This boar was an easy winner of first in the Poland China futurity at the Nebraska State Fair and was an easy winner of first place in the six-months class. He was the top of the Lonergan sale last October and was at that time purchased by Mr. Gorder and Mr. Snyder. The boar was lame sale day, in fact had been lame ever since the fair and up to that time, but a short time after got nearly well of this trouble, and was being used for early litters when one morning he was found dead in his pen. The result is that there are only a few of his get in existence, and while their numbers are few on this farm, yet some as good pigs as the writer has seen all season so far, are here. Mr. Gorder has another boar, one of Mr. Pritchard's breeding that he is using, and he is quite a good boar, too. A nice lot of fall gilts, really extra nice are on the farm and a few fall boars. These latter are now for sale, in fact the gilts are for sale and will be bred for those that order. These fall boars are by Teddy by Big Mischief, and we want to say that one of them is a real herd-heading proposition. The fall gilts are also sired by Teddy, and they are the real big, smooth ones. Parties interested in this stock will do well to write Mr. Gorder at once and when doing so kindly mention The Homestead.

A Late Cook Book.

The ladies of the families into which this paper goes will be pleased to learn of a new and novel cook book which has recently been issued. This is the Cresota cook book, full of recipes of the best sorts and including the making of practically every necessity or dainty which the hosewife is called upon to provide. This book is just a little better than the ordinary cook books because it presents with its recipe instructions for mixing the ingredients, each paragraph and plainly numbered in its proper order. This arrangement makes it impossible to go wrong in the preparation of the recipes. For a limited time readers of this paper may procure copies of this book free by writing to the Northwestern Milling Co., Minneapolis, Minn., and mentioning The Homestead.

Wilson's Yearling Duroc Boars.

I. J. Wilson, West Branch, Iowa, is advertising six Duroc Jersey boars for sale on page 27. One of these is sired by Crimson Wonder I Am and out of a Proud Col. sow. Mr. Wilson has about forty pigs sired by this boar and he looks like he would be an excellent sire. The other five boars are sired by Wilson's Defender, a litter mate to Disturber now at the head of H. E. Browning's herd and a boar that Mr. Browning considers the greatest boar he ever owned. Of these five boars sired by Wilson's Defender, three of them are good ones. One of these was the first-prize pig at the West Liberty and Tipton fairs last fall and he would not make a bad show this year. These boars are just in nice breeding condition and any breeder or farmer needing a big, strong, heavy-boned boar ready for hard service should write Mr. Wilson, or better, visit him. The prices are very reasonable. See page 27 and when writing kindly mention The Homestead.

Wiles' Red Polls.

The writer recently spent a bit of time at the beautiful stock farm owned by Luke L. Wiles, Plattsmouth, Neb., and we wish to say that we saw a grand lot of Red Polls, as one usually does at this farm. Mr. Wiles is not a novice in the breeding of Red Polled cattle, and has owned some of the greatest bulls of Nebraska. One of his former herd bulls, Closson, was not only a great individual, but as a sire was one of the very best. The past two years the herd has been headed by the grand young bull, Happy Jack 2d by the world renowned Happy Jack. Happy Jack 2d is today one of the best individuals within the state, and if shown would make mighty interesting competition for all of them. The cow herd is one that has been carefully selected for many years and combines in rare form some of the best blood of the breed. Those of our readers interested in good Red Polled cattle will find it to their interest to write Mr. Wiles at once. Address Luke L. Wiles, Plattsmouth, Neb., and when writing kindly mention The Homestead.

Democratic Prices for Thirty Days.

Henry Beck, Litchfield, Neb., the veteran horseman of that place and one of the leading democrats of the state says that he believes in practicing what he preaches and is naming real democratic prices on some choice Percheron and Shire stallions, also a choice lot of big-boned, long-eared jacks and jennets. Mr. Beck wants to sell this stuff, and if you are in shape to give him a good note or cash, go and see him and you can do business. The writer is familiar with the stock offered and we wish to say that they are the right sort. They are pasture raised, of good breeding and have the best constitutions of any horses grown in America. The climatic conditions in Nebraska especially the central and western part, are simply ideal for producing the highest class horses possible. This is worth something to the intending buyer, and will be appreciated by the man that has paid out a lot of money for horses that were of mighty short life, or failed to breed at all. Get one of these rugged fellows, or one of these big jacks and he will not owe you a dime next fall. When you write mention The Homestead. See page 25.

The J. C. Meese Polands.

One of the best showmen and all around stockmen that Nebraska has among the many good ones is J. C. Messe, Ord, Neb. Mr. Meese has probably shown as many or more first-prize and champion hogs for the number taken to the fair grounds as any showman in the state. He brought out the great Grand Look, the champion Orphan Boy, the champion King Mastiff, the great boar Young Mastiff and M. & M.'s Mastiff, as well as a host of winning sows and gilts. The six-months gilts from this herd were the sensation of the Nebraska State Fair last season. They were sired by the great breeding boar Big Gun. Big Gun was a great boar in his form last year, and at some of the fairs was first, but he met with a misfortune that came near keeping him away from the fairs altogether and hindering him greatly as to condition. About a month before the fair he got in a fight with a stag, and came near meeting his death. The stag was lean and active and Big Gun was getting quite a bit of weight and the stag nearly ended his days. The get of Big Gun won everywhere along the line last season, and they will have to be reckoned with again this year if all goes well. The great old breeding sow, Sweet Look, is ten years old and has a litter of six or eight pigs again this year. She is not suckling so good this season, but she sure has furnished a lot of grand breeding stock for the Poland China breed, probably better than any single sow the past ten years in Nebraska. One or two choice fall boars and one or two

a little older could be spared and at prices that are really bargains for the stock offered. Should you write mention The Homestead.

The Improved Metal Wheel.

The Havana Metal Wheel Company is prepared to furnish steel wheels for any wagon or cart. Wheels are made to fit the axle where the buyer gives his order according to the rules of the manufacturer's order sheet. By substituting a set of these low wheels it is possible to make a low work wagon of any ordinary gear. These wheels are fitted with wide, flat or grooved tires. They not only reduce the amount of lifting required in loading and unloading, but they also diminish the load for the team. In addition to steel wheels the firm also supplies wood wheels and complete farm trucks. For additional particulars write to Havana Metal Wheel Company, Box 47, Havana, Ill. See the advertisement on page 12.

Koenig Offers Herd Boars.

For the reason that he is a little long on herd boars, H. H. Koenig, De Witt, Neb., will sell one of his two well-known boars. One of these boars is Red Model by Golden Model and out of the great breeding sow Miss Hope. This boar is a full brother to Model Queen, the highest priced sow of the breed in the West for the last several years. The other boar is Crimson King by the great breeding boar I Am A Crimson Wonder 2d, and he is out of the great show and breeding sow, Currant Blossom. Crimson King was the top boar pig in the dispersion sale of J. S. Beem. Either of these boars are the real stuff as herd headers and choice will be sold at once. Mention this paper and write immediately if interested.

Lionberger Offers More Choice Boars.

C. Lionberger, Humboldt, Neb., has sold the past week two extra choice boars to head pure-bred herds of Poland Chinas and still has on hand some more of the same kind. A few have been sold to farmers' herds and those looking for big, strong boars and at farmers' prices will find them here. Right now the best thing on the place is a son of Equal's Stamp by Long King's Equal and out of the great breeding sow Promotress. This pig is a herd header in every way, big and stretchy, and lots of bone. This pig goes with the first check of $50 and he is well worth it. Plenty big for a good number of sows right away, and of the sort of breeding that will improve most herds and injure none. Some other choice boars as low as $25. Send your orders at once and mention this paper when you write. Perry Reed, Henderson, Neb., and Herman Schmale, De Witt, Neb., were the breeders that purchased the past week.

Fred Swan's Durocs.

One of the newer breeders that is coming to the front is Fred Swan, Missouri Valley, Iowa, and he has 300 head of spring pigs now on his place. These are sired by Col. Gano, Golden Gano, Proud Iowa Chief, Crimson Wonder 3d, High Ridge Muncie, C. H.'s Spinal and a number of other noted herd boars. Mr. Swan now owns old Educator, one of the best living sons of Ohio Chief. This boar was used in Harry Browning's herd and some the best sows he ever sold were sired by this boar. His get have always been in demand, and Mr. Swan now has quite a number of sows bred to him for fall litter. His Golden Gano boar is also an excellent breeder and some of the best things he now has on the place are sired by him. One of the greatest litters he has on the farm is by old Col. Gano and out of O. R.'s fine sow, that was the top of the Sedden's sale last winter. She had nine and saved eight—four boars and four sows and they are very excellent. He will surely have some herd boars in this bunch. He has a good litter by Proud Iowa Chief and out of Pansy Advance 3d as well as other splendid litters too numerous to mention. Mr. Swan has so many spring pigs that he will sell a few privately and at prices that will move them. He also offers fourteen good fall boars and he wants to sell these right away. Write him about these at once and mention The Homestead.

An Extra Duroc Jersey Boar.

Probably the best Duroc Jersey herd boar proposition offered the public for some time is being offered by D. S. Cochran, Lincoln, Neb. This boar is a two year past, and one of the grandest breeding boars within the state. He comes of a parentage that has no superiors and from a litter of extra choice stuff. He was sired by I Am A Crimson Wonder 2d, the boar now owned by Swan & Ellis, Iowa, and was out of the great breeding and show sow, Royal Blossom 6th. I Am A Crimson Wonder 2d was sired by that sensational boar I Am A Crimson Wonder by C. W. Again. He was out of the great sow Hazel Kirk by Proud Advance. Royal Blossom 6th is a little mate to the well-known breeding boar, Royal Critic used for some time in the Putman herd. She was sired by Ruby Critic, without question one of the very best sons of Glendale Critic. The dam of Royal Blossom 6th was Royal Blossom 5th, probably as good a sow as the breed ever produced, and undoubtedly one of the greatest as a show sow. Royal Blossom 5th was sired by American Royal. The Cochran boar is a litter mate to Crimson Critic owned by Briggs Bros., Seward, Neb., first prize in class Nebraska State Fair, 1911. Another litter mate was a second or third prize boar in Minnesota the next season, and this boar was a champion himself being defeated for grand champion honors by Critic B., the grand champion Nebraska State Fair, 1912. A better bred boar is not to be had, and a better breeder will be mighty hard to find. It will probably be out of the question to get this boar in shape to win this season, for he is too thin now, but if he could be gotten in shape he would get in the money all right. This boar may be had soon, and those interested should address D. S. Cochran, Lincoln, Neb.

Bellows Bros.' Short-horn Sale.

The sale of Short-horn cattle which Bellows Bros., Maryville, Mo., will hold on June 10th, will be a sale that should interest every lover of good cattle. There never has been a time that Bellows Bros. did not offer superior cattle and for this event they have listed more high-class cattle than have ever gone through one of their sales and a greater lot have not recently been exposed at public treaty. The offering of bulls is by far the strongest these gentlemen have ever been able to make. Every one of the dozen bulls listed is superbly bred and all are such good individuals that breeders will have an exceptional opportunity for selecting such as in their opinion will best suit them for use in their herds. The offering of females will not disappoint the most critical as the herds have been drawn on for some of their very best cows and heifers. The get of the great herd bulls that are in service and have done service in the Bellows herds are well represented as great bulls that head other herds. Nineteen cows have calves at foot by Bellows' herd bulls and in most cases are well along in calf again to their leading herd bulls. Diamond Goods, winner of many championships, is the sire of a great string of bulls that will be sold. His character, conformation, feeding quality is transmitted through these to such an extent that they should be appreciated. Females with calves at foot and bred to him should be equally appreciated. Several of the very choiceest specimens of the breed are listed, the calves at foot with these show that in mating Diamond Goods with such cows has resulted in an improvement such as every progressive breeder desires. Good Choice the sire of Diamond Goods is also well represented as is Sultan Supreme the bull selected to succeed Good Choice. Catalogs with photograph illustrations of many of the cattle listed, the herd bulls and other scenes of cattle in the herds will be mailed to all who request same mentioning this paper.

W. J. Hather's Herds and Flocks.

A stockman that is always on the job is W. J. Hather, Ord, Neb. He has been engaged in the pure-bred stock business for near a quarter of a century, and he has made money. That is right, he has made money, but he has also made the stock business of Nebraska better by his having taken a firm hold of the business and put forth his energy to keep the wheels going. Probably the greatest Clydesdale stallion anywhere in the West is on this farm. He has been a persistent winner at the International, and champion at the Nebraska State Fair. He is the great colt, Dictator. He was imported and shown by McLay Bros. and later purchased by Mr. Hather. A few more mares could be bred to this young horse, and readers of The Homestead that appreciate the opportunity offered hereby should not allow it to pass. The service fee is moderate and mares will be well cared for. The Short-horn herd is for sale in its entirety, or in part. It is headed by the great son of Avondale, called Havendale. He is a beautiful rich roan bull of much substance and with a grand lot of quality and is siring some extra choice stuff. The best aged show boar proposition that the writer has seen to date is the Poland China boar, Hadley Over, sired by Hather's Hadley 2d. Hadley Over was the reserve champion at the International last winter and was the second-prize junior yearling boar at the Nebraska State fair last fall. He was defeated for first place by a boar shown by Mr. Stout, Beatrice, Neb., and this boar owned by Mr. Stout was the best fitted hog on the fair ground, in fact, he was as well fitted as any hog the writer has ever seen. The writer has served his apprenticeship in this hog fitting himself and has been able to get the blue ribbons sometimes, but the boar that defeated Hadley Over was just the best in that line that has ever come to our attention. If nothing befalls him, Hadley Over will be at the fair, and will be one of the hard ones to head off. A few fall boars are for sale from the Hather herd, also a few sows to farrow the last of this month. When writing about any of this stock kindly mention The Homestead.

The Holbrook Angus Sale.

Holbrook, Iowa, although only a small inland village, is better known to breeders of Aberdeen Angus cattle than a great many cities containing thousands of people. This is due largely to the efforts of a few men in that vicinity who have given the best part of their life to the upbuilding of the Aberdeen Angus breed. Many of the best specimens of this breed have come from this vicinity. Many grand champion bulls, cows and steers have been bred here. P. J. Donohoe, Holbrook, and William Cash, Williamsburg, Iowa, are two men who have played an important part in placing Holbrook on the map when it comes to good Angus cattle. These two gentlemen will hold a sale of sixty head of bulls and females at the Holbrook sale pavilion on May 27th. Some of the best animals in each herd have been listed for this occasion as both men are desirous of offering a class of cattle that will appeal to the very best judges and breeders in the country. A representative of this paper has looked over the cattle and can vouch for the high quality of the offering. Any breeder wanting the best to be had will not be disappointed in the individuals to be sold in this sale. There will be about fifty females and ten bulls. The breeding of the cattle is as good as the herd books contain. Blackbirds, Trojan Ericas, Queen Mothers and Prides, four of the most popular families, make up the offering. Most of the best bulls known to the breed are contained in the pedigree of the sale cattle. Such bulls as Black Woodlawn, unequaled as a show bull and sire of show cattle; Prince Ito; Black King of Woodlawn; Prileno; Egan Star; Black King of Homedale 2d; Irwin C., are the sires of most of the cattle to be sold. We will not call attention to any particular individual to be sold as there are so many good ones that our space would not permit of a description of each one. However, we want to urge every breeder and farmer interested in good beef cattle, but more especially Aberdeen Angus cattle, to write Mr. P. J. Donohoe for a catalog and arrange to attend the sale. See page 26. Mention The Homestead when writing for catalog.

Holstein Bargains at Woodlawn.

The Holstein herd at Woodlawn Farm, Sterling, Ill., now numbers over 250 head, and there is no want that Manager Williams cannot fill in a satisfactory manner. At present he is making some very attractice prices on some bull calves and would be pleased to send his list to any person who will write for the same. The Woodlawn herd is a producing one, the females being noted for their ability to give 8,000 to 12,000 pounds of milk per year, and Manager Williams will quote prices on females that will certainly move them if you are in the market for producing Holsteins. A day can be spent pleasantly and profitably at Woodlawn Farm, and visitors are always welcome. Look up the advertisement on page 13 and write them your wants today.

Local merchants are now complaining because auto-owning farmers go to the larger towns to do their trading when roads permit. It is said that small towns are suffering greatly because of this in many sections of the country. Thus they find still another reason why farmers should be denied the pleasure of the auto.

Ask your neighbor to subscribe for The Homestead.

TOO LATE TO CLASSIFY.

PETER HOPLEY & SON
LEWIS and ATLANTIC, IOWA,
BREEDERS and IMPORTERS
PERCHERON AND SHIRE STALLIONS AND MARES
We have some of the very best stallions and mares that have crossed the water and we are making special prices for next thirty days. Come and see us at once.

FAIRVIEW STOCK FARM
PERCHERONS, BELGIANS, SHIRES, MAMMOTH JACKS and JENNETS
SOME extra good home-bred stallions. Percherons and Shires, pasture raised and in splendid thrift. The sort to do a lot of hard service. A few extra high-class big jacks 3 to 5 years old and 30 jennets, all ages. Democratic prices on this stock for next 30 days. Want to close them out. Address, mentioning The Homestead.
HENRY BECK, - - - LITCHFIELD, NEB.

MESSENGER'S HAMPSHIRES
I HAVE four fall boars and two aged boars for sale at reasonable prices. Write me at once if you want one. Mention The Homestead and address
CLAYTON MESSENGER, KESWICK, IOWA.

AUGUST GORDER'S POLAND CHINAS
A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The new herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.
AUGUST GORDER, PLATTSMOUTH, NEB.

G. O. SATRE'S CHESTER WHITE FALL BOARS
THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two-year-old boar, Royal Banner 22289, by Perfection by Climax. Descriptions and prices furnished on request.
G. O. SATRE - - - - JEWELL, IOWA

I will make my trip west in June sketching pure-bred live stock. Write me today and arrange to have me call on this trip. Address
A. V. LOCK, REMINGTON, INDIANA.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred: undefeated get of sire for three years in succession. 21 bulls for sale. Address C. S. Hechtner, Charlton, Iowa.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan, Scotch bred 3 yr. olds, and calves 3 to 6 mos.; choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

DUROC JERSEY FALL BOARS by Golden Model Jr., out of dams by Crimson Wonder I am, $25 to $40; big bone, fancy quality. U. G. Davidson, Algona, Ia.

GENTLE PONIES Several small ponies for sale. Write me what you want. Perhaps I can please you. J. H. Kelley, Altoona, Ia.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

PERCHERONS

1,860 to 2,380 lb. home-grown 3-year-old stallions. Eight of them May 9th. Darkest grays and blacks. Size and bone to suit you. Ready for the heaviest season now at hand. Come.
FRED CHANDLER
Route 7,
Charlton, - - Iowa

FARMERS, READ THIS
AS I must change climate, I offer at reduced prices for early sale, the following registered Percheron horse colts: Two yearlings, two 2-year-olds, one 3-year-old and one 4-year-old. All grays and of conformation to suit you. Four will make ton horses. Will make prices right and you can name terms. Can supply you with seven choice brood mares also, from 2 to 6 years old. This is a grand bunch with 3 already in the ton class. All registered Percherons.
L. J. BAIRD, Phone 183, AMES, IOWA.

WILDWOOD FARM
offers for sale
ONE red Scotch bull, thirteen months old of the Clara tribe—growthy and wide in the loin. Also four other thick-fleshed ten and twelve-months-old calves from good milking dams.
W. W. VAUGHN, MARION, IOWA.

ANGUS BULLS FOR SALE
I have a good 2-year-old and several yearlings that I will sell right. Address
H. R. DAVIS - - CORNING, IOWA.

BIG POLAND CHINAS
WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address
Pitz & Adams, Plattsmouth, Nebraska.

RED POLLED BULLS
A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

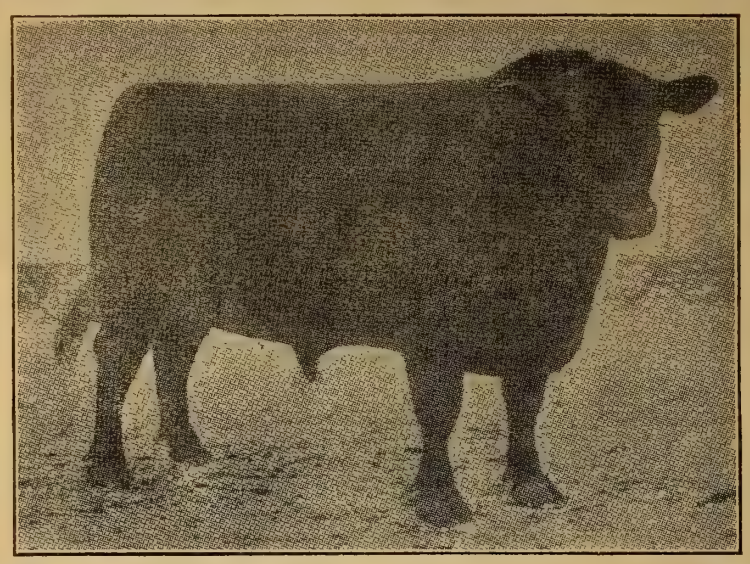
Duroc Jersey Fall Boars
I HAVE 14 good fall boars for sale sired by Golden Gano. Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Address
Fred Swan - - - Missouri Valley, Iowa.

TWO POLLED DURHAM Herd bulls, 18 months, and 10 females, tested, registered and right. F. Bunker, Kilbourn, Wis.

MULE-FOOTED SWINE.
Mule-Foot Hogs
Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

BERKSHIRE SWINE.
HOLLAND FARM BERKSHIRES
YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa.

HAMPSHIRE SWINE.
Valley View Hampshires Nothing left at present but fall pigs. Address Fred Wheeler, St. Charles Ia.



WHO? P. J. Donohoe and Wm. Cash
WHAT? Aberdeen Angus Sale
WHEN? Tuesday, May 27, 1913
WHERE? Holbrook, Iowa

Auctioneers, C. M. Jones, N. G. Kraschel. Write me for catalog, mentioning The Homestead,

P. J. DONOHOE, HOLBROOK, IOWA

R. R. Station, Parnell, Ia., on Marion-Ottumwa branch of C. M. & St. P. Ry.

POLAND CHINA SWINE.

W. H. COOPER, LIVE STOCK AUCTIONEER

WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser.

W. H. COOPER, HEDRICK, IOWA.

FALL BOARS BY LONG KING'S SUPERIOR

AND Big Bone III. I have 4 fall Poland China boars by Big Bone III out of a Long King sow and a number by **Long King's Superior.** Send me a check for **$25.00** and I will send you a boar worth the money. If upon his arrival you are not satisfied send him back and get your money. Send me your order, mentioning The Homestead.

C. W. PHILLIPS, NEW SHARON, IOWA.

WE ARE NOW BOOKING ORDERS FOR BRED SOWS

WE have a number of extra choice fall gilts, great big ones, that we will breed for fall litters for those that order now. These gilts are by Nebraska Wonder, by A Wonder, and Chief Price Again. Will breed them to Sampson Junior, a selected son of Nebraska Wonder, or to Nebraska Wonder. We price these gilts low for the class of stock, and if you wish some of this sort order at once. Be sure to mention The Homestead when you write. Address

BEALL & JACKSON, ROCA, NEBRASKA.

BIG SAMPSON 62026 FOR SALE

POSITIVELY the greatest value of the year in a Poland China is **Big Sampson 62026.** I have but little further use for him and the low price of $400 will buy him. One of the few really extra big boars of the country. He is two years old and immune. Could use a few sows in part payment. If you really want a big boar and a good one address

H. B. FRANCISCO, HASTINGS, NEBRASKA

BAIRD'S MAMMOTH POLAND CHINAS

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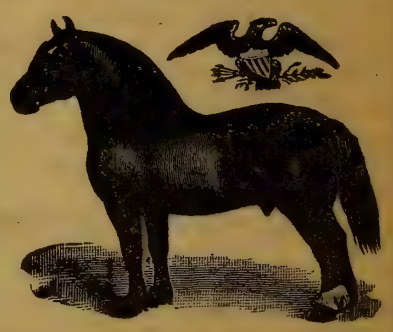

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The Iowa Homestead

VOL. LVIII. NO. 20 DES MO[illegible] MAY 15, 1913. WHOLE NO. 2901

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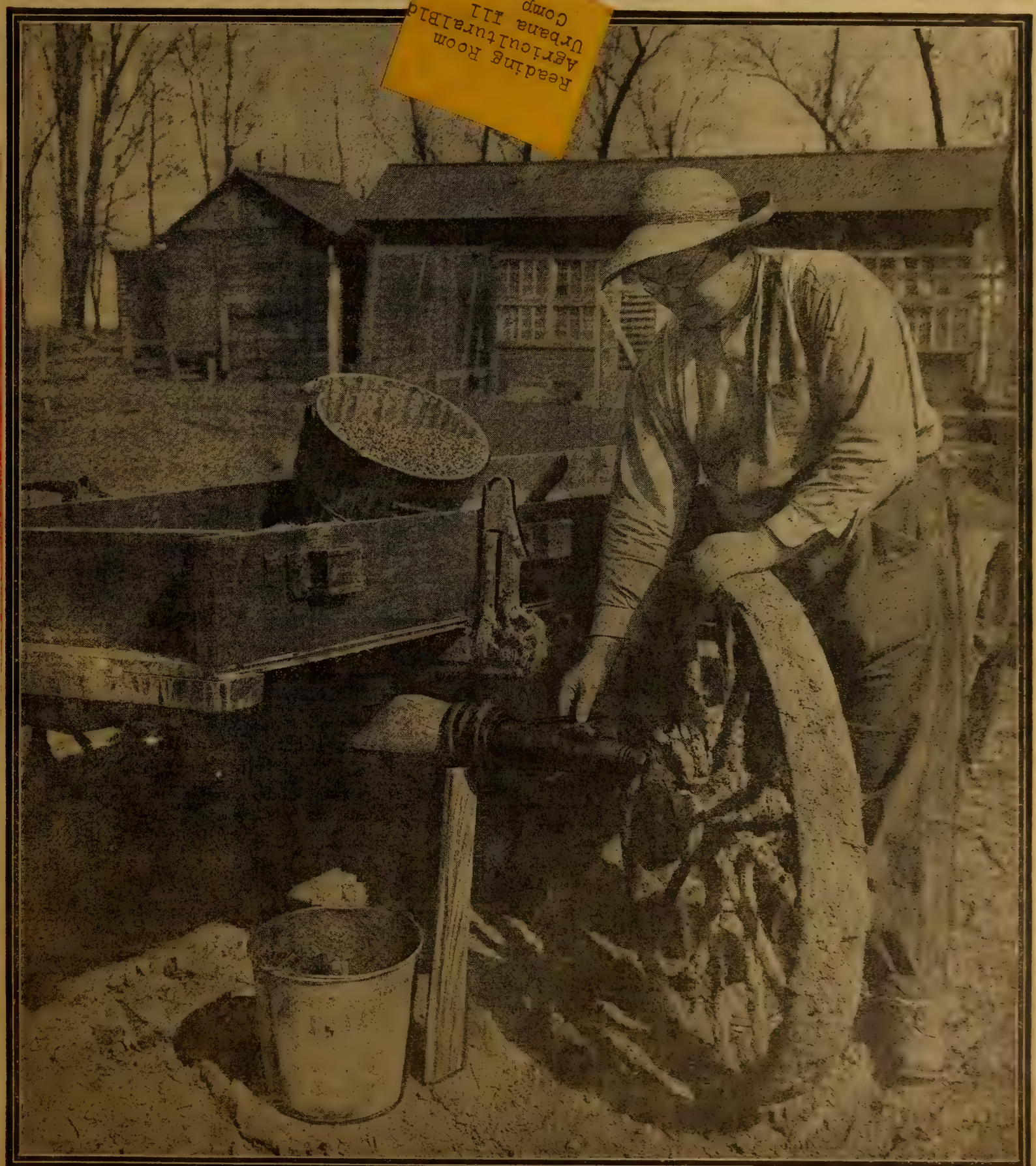

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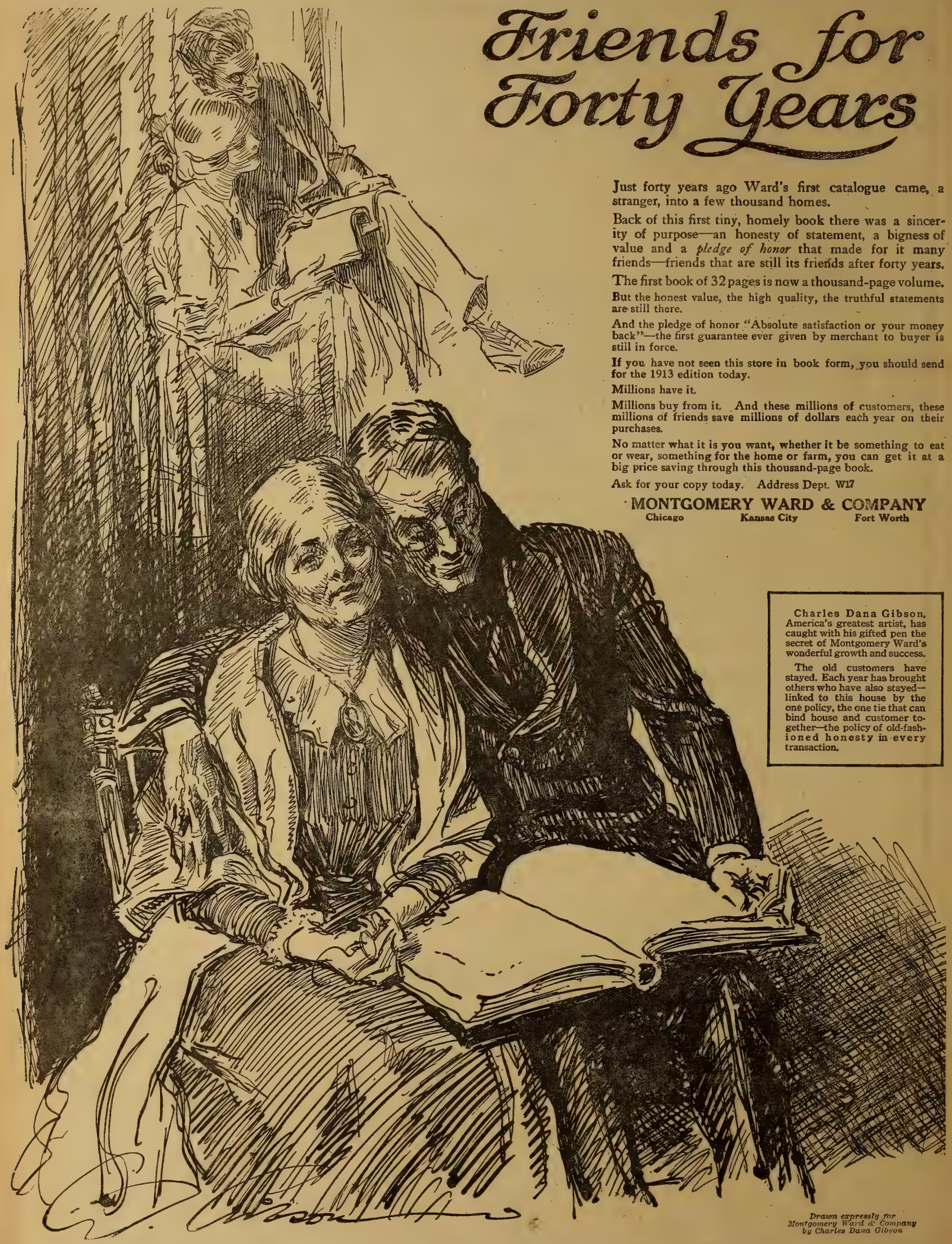

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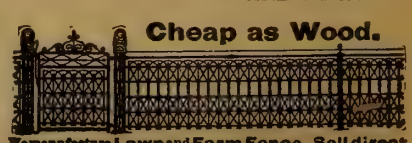

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The Iowa Homestead

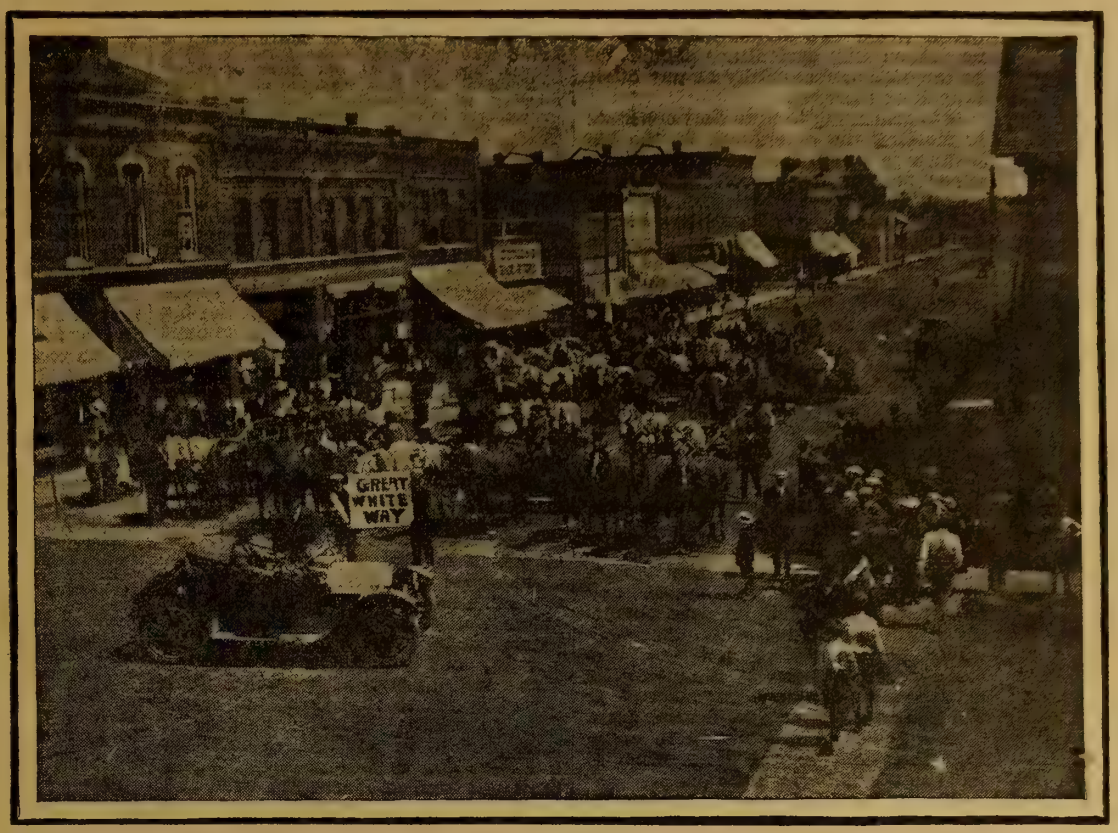
DES MOINES, IOWA, THURSDAY, MAY 15, 1913.

THE SUCCESS OF ROAD DRAG DAY

Merchants Offer Prizes to Every Farmer Driving Into Town on a Drag—Farmers Make Round Trip of Twenty-one Miles, Putting Highways in Best of Condition.

ROAD Drag Day is the latest plan not only for the improvement of the country highways, but also for that harmonious co-operation between farm and town dweller on which the complete success of both depends. As tried out within the past few weeks in a number of grain belt communities the scheme is eminently successful.

The manner in which the plan was tried out in Stuart, Iowa, last week shows its possibilities and is an object lesson to other communities. Stuart is a town of 2,000, located on the main line of the Rock Island railroad, forty-five miles west of Des Moines. It is on the across-the-state road known as the Great White Way, brought into existence and kept in good condition through the progressive co-operation of farmers and townspeople. The merchants of Stuart offered prizes to all farmers who would drive into town on a certain day on a road drag, adding special prizes to the farmer who came the greatest distance, to the one with the heaviest outfit and to the one riding the best drag.



TWENTY-FIVE ENTHUSIASTIC ROAD DRAGGERS LINED UP ON THE MAIN STREET OF STUART, IOWA, ON ROAD DRAG DAY.

Twenty-five farmers co-operated with the Stuart merchants and drove into town from their farm homes riding drags, the first prize ($3 in cash and a pair of gold spectacles) going to a farmer living ten and a half miles distant, who thus made a round trip of twenty-one miles astride a home-constructed drag. The second prize ($3 in cash) went to a farmer coming nine and a half miles, while the third prize went to a farmer whose round trip was eighteen miles. The prize for the best drag was a pair of shoes, the contestants deciding this feature by voting among themselves. The Stuart prize for the heaviest four-horse team hitched to a drag was won by a farmer whose horses tipped the scales at 6,720 pounds, the second heaviest weighing 6,180 pounds and the third heaviest 5,400 pounds.

Each farmer who rode into Stuart that day on a drag was welcomed on the main street by a delegation from the Commercial Club who furnished him with a market basket and certificates good in trade at practically all of the stores of the town. Armed with his market basket and his certificates, each of the farmers made the rounds of the stores collecting the articles of merchandise, which ranged from household necessities to personal trinkets and in value from twenty-five cents to several dollars each. In addition to the articles thus given him for his market basket each road-drag farmer was given twenty-five cents' worth of cigars, an ice cream soda, a pair of socks and a new necktie. One of the surprises of the day occurred when two farm girls appeared, riding a home-made drag which had been made comfortable and presentable by means of a seat taken from another piece of farm machinery, covered with rugs. The girls were among the most enthusiastic of the road draggers and by their example showed the manner in which the feminine members of any farm household may co-operate in this all important matter.

By means of twenty-five farmers making the round trip to and from town on road drags, the highways radiating from Stuart were put in splendid condition at the very time of the year when dragging was most necessary and when communication between town and country was most desirable, both from the standpoint

(Continued on page 25)

TWO PRETTY IOWA FARM GIRLS ADDED IMPETUS TO THE ROAD-DRAGGING CAMPAIGN BY ENTERING THE STUART CONTEST—THE FOUR-HORSE OUTFIT WHICH WON THE PRIZE FOR THE WEIGHT, TOTALING 6,720 POUNDS.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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TYPE OF HOG HOUSE DISCUSSED.

At the last annual meeting of the Iowa Swine Breeders' Association the relative merit of the larger central hog house and the individual inexpensive portable cote was considered. Mr. George T White, of Dallas county, Iowa, in speaking of his central hog house, said:

I spent considerable time in studying out the plans of my hog house two years ago. This house is twenty-three feet wide and fifty feet long, faces the south; pens seven by eight, and alley seven feet wide. The partitions are all on hinges so they will swing around cross ways and the crosspieces all on hinges so you can turn it from a dozen small pens into two large ones. There is only one door which opens out into the orchard and pasture beyond. I have two good-sized windows for each pen in the south side and in the upper part two full windows. No matter where the sun shines my hogs will get it. The floor is cement throughout and level, but if I were to build again I would build the alley floor level and the pens with about two or three inches slope.

Mr. White also recommended the use of a certain number of individual hog houses, these to be used for various purposes particularly where it is necessary to put litters out on different pastures. Mr. L. C. Reese, of Adams county, Iowa, who had previously had some experience with a central hog house, pointed out that he had completely changed his attitude in regard to its merit and among other things said:

Up to five years ago I had a hog house that cost me nearly $1,000. Then I had the misfortune to lose it by fire. I never raised as good pigs in that hog house as I have raised since. I have now twenty-six individual houses. When it comes farrowing time I hitch an old horse to a sled and I can feed them and care for them as quickly and easily as if they were all in a large hog house. And when they farrow you won't have the trouble with one sow disturbing all the rest. To build a hog house now about sixteen by thirty-two will cost you about $375 or $400 the cheapest way you can. That will accommodate about twelve sows, which gives them a pen six by six with a four-foot alleyway. You can build individual farrowing pens at about $12 apiece, and you can put them wherever you want them. You can tell just what each sow is doing, and the pigs won't rob other pigs.

On the same subject Mr. H. F. Hoffman, of Cherokee county, Iowa, endorsed the central house, but in addition uses the individual cotes to some extent. Speaking of his plan Mr. Hoffman said:

You ought to keep them separate and they will do much better. We have both large and small hog houses and we have all our pigs farrow in the main hog house. I will admit that if you keep so many together they won't do so well, but we don't aim to keep too many together. As far as I am concerned I will take the large hog house as a matter of convenience. We have water, stoves and a cement floor and it is not much to take care of them and I have not had a pig with thumps for ten years or one with scours. Our hog house is well ventilated and it is not damp. We have some individual hog pens and use them sometimes, but it always seems to me you can get better ventilation in the large house.

After all, it depends somewhat upon conditions whether the central house should be used or simply the small cotes. Many a man, however, has made the mistake of waiting year after year until he could afford to build a central house before taking up hog raising on anything like an extensive scale. As a matter of fact, a few $12 or $15 houses will contribute more quickly than any other factor that we could mention to the building of a central hog house if that seems to be necessary as the outgrowth of an experience with the small house plan.

TEXT-BOOKS FOR AGRICULTURE.

Practical, elementary agriculture has been added to the course of study of the public schools of many of the grain-belt states, the legislatures of at least three states taking the necessary action last winter. The problem of selecting the text-books now devolves upon the school authorities. The success of the whole experiment, it will be conceded, depends upon the thoroughness of the text-books and the practicalness of the teachers. Given these two requisites, there is no reason why agriculture should not be taught as successfully as any other branch of learning.

It is gratifying to note that one state is meeting the emergency in the big manner in which it must be met if the experiment is to succeed. Kansas is one of the states which has recently taken the necessary legislative action to introduce elementary agriculture in the public schools. But Kansas realizes that the agriculture which is to be taught is the agriculture of Kansas, not of New York or Maine or California or any other state. Where, therefore, can it obtain a text-book which will meet local conditions, rather than indulge in mere glittering generalities? Kansas proposes to write its own agricultural text-book, practically all of the workers in the state agricultural college banding together to write on the subjects in which they are most proficient, the book to be submitted to the state school book commission along with any others from regular publishing houses and thus take its place in an open competition for practicalness and thoroughness. But more than this, the Kansas authors propose, if their book is accepted, to give the manuscript to the state free of charge, asking not a cent, royalty in order to help along the movement in the time when it most needs help, its infancy.

We are indebted to a subscriber for the following statement issued by President Waters, of the state agricultural college, during the past week:

Each chapter is going to be treated by a specialist. The chapter on home gardens will be by a man who has had many years' experience in gardening and many years' experience as a teacher. The chapter on corn will be by a man who has devoted practically all his life to corn experiments. The same plan will be followed in the texts on wheat, alfalfa, oats, horticulture, seed testing, plowing and the cultivation of the crops. Each experiment that will be suggested will be along the lines of practical agricultural work in Kansas alone, and each test that is explained will be of some test the college itself has made in Kansas and under all conditions of Kansas soils and climate. The book will be written by teachers in these subjects and the text arranged as experience indicates to be the best methods of instruction in agricultural subjects. The book is not intended to be a general text on agriculture, but a text on Kansas agriculture, and treat every phase of this work in Kansas as fully as possible for school work and offer many suggestions for continuing the work outside the schoolroom after the children get interested in it.

In this respect, as in many others, Kansas is taking a lead which other grain-belt states might well follow. Successful agriculture is largely a matter of adaptation to local conditions. The successful text-book will be that which appeals to the boys and girls through the language of the home fields. The corn-belt boy cannot be taught elementary agriculture in cotton terms, nor can the boy of the wheat belt be led into practical agriculture through the same channels as the boy of the rice, the apple, or the orange belt. It is highly essential that the text-books, on which the educational experiment is to made, shall be thorough and practical, with a local appeal and flavor. The Kansas educators are starting right.

COST OF MAINTAINING WORK HORSES.

Prof. Thomas A. Hunt, in his work outlining the things that a young farmer should know, takes up the matter of cost of maintaining work horses. Making a summary of the experiments carried on at the Minnesota and Ohio stations he says:

At the Minnesota station the total cost of feeding and maintaining a farm work horse for one year was estimated to be from $75 to $90, of which about $20 was charged for interest and depreciation. On the basis of 3.3 hours as the length of the working day the cost per horse per hour was estimated to be seven and one-half cents. At the Ohio State University it was found that four horses weighing about 1,400 pounds were chosen to perform 2,185 hours of labor during one year, while under like conditions four horses, weighing about 200 pounds less, worked on an average but 1,641 hours each. For each secular day, therefore, the former worked about seven and one-half hours, while the latter were employed but five and one-half hours. The cost of food was estimated at $54; cost of shoeing, repairs of harness and stable supplies at $6.50; and the cost of feeding, grooming and cleaning of stables at $23.50; or a total cost of $84 per year. Nothing was charged for interest or depreciation, but the expense of feeding and caring for three colts was included in the estimates given. The annual expense of maintaining a horse was practically the same in both states, but the cost per hour of labor performed was less because of the possibility of employing the horses at productive labor a larger portion of the time. Too much emphasis cannot be placed upon the need of planning a farm organization which will give continuous employment to horses as well as to men in order to realize the most profitable returns. An industrial system that makes it necessary to maintain work animals three days in order to secure one day's work falls far short of an ideal.

The cost of maintaining work horses undoubtedly constitutes one of the big leaks of the farm. A certain amount of power is required for handling a given area of crops and we come to regard the matter of maintaining horses as one of the fixed charges in production. It is not that the horse does not pay well while he is at work, but rather that his idle hours mean relatively a large upkeep for a given amount of labor.

Remedies might be suggested, one of which is that under certain circumstances the farm tractor can be made to take the place of horse power. When the tractor stops work the expense stops. Another plan that is working out well on a great many farms is the result of keeping a number of mares so that these are called upon to perform the dual purpose of raising colts in addition to fulfilling their function as draft animals. Where the right kind of mares are used and in turn these are bred to good stallions the cost of maintenance may be wholly wiped out by the value of the increase. A good, sturdy colt can do considerable (work as a two year old and after that he can at least partially pay his way until he is ready for market.

There is still another plan by which the cost of maintaining the work horses may be cut down. We refer to pasture improvement. The average pasture at the present time produces only about one-half of what should be produced. By a system of top dressing and spring disking, in addition to a little supplementary seeding, grass production could be greatly increased and this would mean cheaper feed for the work horse.

MILLIONS FOR GOOD ROADS.

A national system of highways, 18,000 miles in extent, and costing from two hundred to three hundred million dollars is being promoted by two former members of congress and already has the endorsement of two well-known organizations, the American Automobile Association and the National Old Trails Road Association. The immense sum necessary for the work is to be raised, according to the plan of the promoters, by an increased tax upon tobacco. The work is to be done by means of the machinery with which the Panama canal is now being constructed.

Stanton Warburton, a former member of congress from the state of Washington, is the father of the federal-built national-highway idea. Mr. Warburton believes that the government must, soon or late, build and maintain national roads and that the start already made (in the Shackleford and Swanson bills, providing for state aid in small amounts and for appropriations to states according to their population) is going about the matter in an altogether wrong manner. He would have the government build the roads itself, just as it is digging the Panama canal, and not delegate the work to any state. Addressing the National Old Trails Road Association at Kansas City a few days ago Mr. Warburton outlined his plan in this manner:

I claim above all else for my plan that it treats every state alike, large or small, rich or poor, and, furthermore, that my system will serve the greatest number of people. My plan provides for 18,000 miles of highways, and, on or within ten miles of these highways, live two-thirds of the inhabitants of the United States. I would have the government build the best road that can built and by that I do not mean a macadamized road, for that is not the best. I will insist upon 18,000 miles of pavement in my system, pavement equal to the best in the streets of any city. My roads will cost from $15,000 to $20,000 a mile and it means a total cost of about $300,000,000. That figure at first staggers congressmen to whom I have outlined my project. They ask breathless, "How will you raise the money?" I propose to obtain the money by increasing the tobacco tax, the least taxed luxury in America. By increasing the tobacco tax to where it was in 1879 the government will acquire $70,000,000 a year, which will build my system and pay for it in five years.

At the same meeting this same idea was endorsed by another former member of congress, J. M. Miller, of Kansas, who advocated the use of the Panama canal machinery in national road building. "The building of the Panama canal at a cost of one-half billion dollars is a good investment," asserted Mr. Miller, "but I believe fifty thousand miles of permanent national roads would be a better investment, one in which every man, woman and child in the nation would share the profits every time they used a foot of the road."

The Old Trails Road Association is not the only one interested in road building on this large a scale. At the recent American Automobile Association's federal aid convention, in Washington, a meeting in which forty states were represented, the following resolution was adopted:

Resolved, That we recommend the federal government to build and maintain an interstate system of national highways connecting the capitals of the various states with the national capital to be extended from convenient points along the trunk line to every town having a population of 20,000 or more.

This same convention adopted a further resolution restoring approximately the tax on tobacco of 1879, to be used for the express purpose of building a national system of highways. The taxation plan is thus explained by an attendant at the convention:

This tobacco tax of 1879, if restored, will be imperceptible in its effect upon the producer and consumer of tobacco. To the consumer it will make a difference of one cigar in thirty, and with that small sacrifice would build the proposed system of roads in five years, after which time the tax can be repealed. It was this tax on tobacco which obtained the revenue with which the war with Spain was fought. It is this tax which has been twice repealed for the express purpose of reducing a surplus revenue.

With two notable associations back of it, the idea is bound to gain headway, although whether practical and adoptable it is not yet possible to say. This much is certain, the question of state aid and federal aid for road building is coming in for more and more discussion every year. More progress has been made within the past five years in the all-important matter of big apropriations for road building than in a quarter of a century prior. It may be that the time is not far distant when people will think in millions on this road matter where they think in hundreds today. At any rate, the discussion is important, opening the eyes of all to the value and the availability of good roads.

FILLING TILE DRAINS PROMPTLY.

There has been a very heavy demand for tile emanating from the farms of the corn belt during the last five years. More and more the idea is finding lodgment in the minds of men who till the heavier soils that a system of tile drainage constitutes a form of investment that will pay larger dividends than can be realized from a similar investment made in any other way. To those who are tiling the experience of one of our Iowa subscribers may be of interest and profit. Among other things this subscriber says:

I am going to submit a little of my personal experience in tiling land, hoping thereby to prevent others from making the blunder that has cost me not only much worry, but considerable loss. It was all due to the carelessness or indifference of a neighbor whose drainage water found outlet through my tile. I put in a system of drains ten years ago on an eighty-acre field. Realizing that the water from a neighbor's forty naturally flowed in the direction of my main tile I used a larger tile than would have sufficed for my own use. My system worked per-

fectly for a period of seven years and it converted land that formerly produced nothing but red top and swale grass into a most productive area. This field has produced as high as eighty-five bushels of corn per acre since it was tiled. Three years ago my neighbor, observing my good results, decided to tile out his forty acres and here comes in the beginning of my trouble. He started his system at the end of my eight-inch tile and as the work proceeded he put down his tile and placed on them about six inches of soil. The work trailed along somewhat slowly, but in due time he had several hundred rods in this condition. I appealed to him two or three times to keep the ditch filled, fearing that heavy rains would wash this soil into the tile and down into my main. Not realizing the seriousness of this neglect the ditches were allowed to remain open for a period of three or four months and during that time we had several very heavy showers. After these heavy rains an examination of his drains would show places where the soil above the tile had disappeared and of course it passed into his tile and down through my outlet. Eventually the ditches were covered and the very thing that I feared happened. It has resulted in depositing enough soil in my eight-inch tile to reduce its capacity more than half. I have examined it in two or three places and find that there is a great deal of soil in the tile and I presume that in the depressions, if there are any, the tile is almost full. There is nothing for me to do, in my opinion, but to take up that main tile and relay it and I am writing you this note in order that your subscribers who are interested in tile draining may never make the same blunder that was made in this case. If I were putting in another system I would never leave a day's work without tramping in at least a foot or possibly eighteen inches of soil on top of the tile and under no circumstances would I adopt the practice of the ordinary drainage man, namely, that of throwing in about six inches of soil. I would much rather leave the tile bare, if I could not take the time to tramp in a sufficient depth of soil to prevent the water from carrying it down through the tile.

This is an exceedingly important phase of the tile drainage problem, particularly so where the fall is slight. Unless tiling is done with an extraordinary degree of care there will be slight depressions in the line of more or less frequency and these are sufficient to start the trouble if the washing of soil should begin. Just as the weak link in a chain determines its strength, so the capacity of a line of tile is often determined by the clearance of the smallest bore. Furthermore any collection of sediment along the line means that from that point on the water will slow up as it passes to the outlet and this means that gradually the filling up process will be carried on. We hope that those of our readers who expect to do some tiling this year will keep this point in mind because it is expensive work, but it is nearly always a highly profitable form of investment if every branch of the operation is well done.

LAND SPECULATION.

One of the largest transcontinental railroads of Canada, the greatest public service corporation in the world, has adopted the policy of absolutely refusing to sell land to speculators, making it one of the iron-clad provisions of sale that the purchaser settle upon the land within six months and put it in cultivation. This railroad was granted twenty-five million acres of public land when it was constructed, thirty years ago. Much of that which has already been sold has gone into the hands of speculators who are simply holding it for the rise in value which is almost inevitable, because of the large number of American farmers who are settling in the western Canadian provinces bringing the country up to a high state of cultivation. The railroad proposes to put an end to this and demands hereafter that the man who buys the land live upon it and till it.

The action of this railroad is commended by one of the large American magazines, which quotes a letter received from the vice-president of the corporation, having this to say on the general proposition of land speculation:

We don't want a few rich gentlemen to sit in their offices in London and New York and hold our land out of use until other people's industry gives it a value that they don't earn. The capitalist-speculator is the curse of a new country. We never much minded the farmer-speculator, because as a rule he gets enough real work done on a virgin soil to pay his way; but land speculation as broadly understood is a detriment not only to the railway, but to the public welfare. The public interest and the interest of the railway are identical here, because they both demand a producing population. Mere capital invested and tied up in lands means nothing to us or the public. Besides, the ownership of land is really a public trust. We don't consider that we own our land in the same sense as we own our cars, engines and steamships, for instance, because these are products of labor and the land is not. Strictly speaking, land is always public property, and can never be absolutely alienated. We think we have a right to take a reasonable profit out of land for services rendered in making it accessible, but we have always felt bound, and it has always been our policy, to administer our control of the land in the public interest, and we think this means letting it go to those who will use it instead of to those who will merely hold it out of the market. I don't want you to think we are posing for anything but a mercenary and hard-fisted corporation. We reckon that every bona-fide settler working and producing along our line is a minimum permanent asset of $1,000 to the railway. That is the important thing to us; but at the same time we cannot help seeing that if he is worth $1,000 to us he must be worth at least that much to the Dominion.

We believe, with the editor of the American magazine, that "for progressive public spirit as well as sheer business wisdom" this action is "noteworthy in railroad history." Canada has been held back by the avariciousness of land speculators, who were a liability to the country rather than an asset. The experience of Canada has been the experience of practically every new country. It is unfair that the men who go into a new land and open it to cultivation should not reap the benefit of the advance in land value, at least equally with the man who buys the land simply as an investment and holds it, unimproved, to reap the benefit of the industry of the actual settler. The Canadian Pacific railroad is a corporation, one of the biggest in existence, but it is actuated by more than mere good business sense when it puts this new policy into operation. It shows that it has the welfare of the people along its lines at heart, realizing that there is a moral responsibility incumbent upon the agent who lures a person into a new and untried field. The history of many new parts of the United States, where lands (many times arid and absolutely worthless) have been sold to unscrupulous promoters without a thought of the moral responsibility of taking care of the people who buy, would have been far different if this new Canadian policy had prevailed.

Weeds have caused more trouble with alfalfa than any other thing. On account of the danger of trouble with weeds in spring seeding and the liability of interference by drouth in late summer seeding, it is undoubtedly safest and best, when it can be done, to spend the spring in ridding the ground of weed seeds and then sow the alfalfa alone about the end of June or the early part of July. In this case the ground should be plowed in the spring, turning under some manure, if possible, and then harrow every ten days or two weeks until seeding time. Each successive harrowing will kill the lot of weeds that have started and put a fresh lot of seeds in a position to germinate, until finally all weed seeds near enough to the surface to grow will have been destroyed.

The department of agriculture states that only 19 per cent of the corn crop leaves the farms, and that of this percentage 9.1 per cent is used for flour and grist mills, 4.4 per cent is used for feeds in towns, 1.7 per cent is exported and 1.5 per cent is employed in the manufacture of glucose and starch. It is said that 1.3 per cent is used in the manufacture of distilled and malt liquors, of which eight-tenths of 1 per cent is for the distilled. On the farm corn is consumed about as follows: 31.5 per cent by horses and mules, 31.5 per cent by swine, 11 per cent by cattle other than milk cows, 10 per cent by milk cows, 4.2 per cent by poultry, 2.6 per cent by sheep, 1 per cent is used for seed and 4 per cent by human beings. The actual farm consumption for the last five years has totaled 85.6 per cent of the crop.

A boar with good individual characteristics, and backed by a good line of ancestors, is the one to tie your faith to in the swine raising business.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Keeping down the weeds will greatly assist in the extermination of the pesky flies.

Provide a lot for the cows to graze in at night. They will actually eat less than if half starved all night, and the milk flow will be more uniform in both quality and quantity.

Farm drudgery consists of spending ten hours in the field; then puttering around till ten o'clock at night doing chores.

Our local creamery paid forty-one cents per pound for butter fat for the month of March and many of our patrons averaged $10 or better for each cow in their herd. Milking and caring for cows is no snap, but cashing the checks helps smooth things over.

Be sure to use the narrow-tire wagon on soft fields and the meadow lands.

Make sure that the poultry buildings are well ventilated, so the chickens will not form the habit of roosting out on the fence, among the trees and on the farm machinery when the weather is extremely warm. Outdoor roosting might be all right for summer time, but think of the exposure when fall rains set in, and of the chasing it will cost you to round up the fowls and get them to roosting in the poultry building again.

Meat, bread and "taters" will not form a very desirable balanced ration for the family.

A good dinner bell on the farm is indispensable, as it can be used for calling the men from the field or the barn at any time, not only at meal time, but in case of accident, fire, visitors, etc.

A bolster spring for the farm wagon should be available on every farm.

If the sheep are quartered in buildings that are not amply ventilated, you will find that the confined heat will cause their wool to slip.

Use fine, uniform salt in making butter, especially for private trade.

One of the wise ones tells us to buy our shoes in the afternoon when the feet are spread from walking and thus get a perfect fit. This sounds reasonable, and no one should overlook anything that will help in getting a perfect-fitting shoe, but how about the harness on the horse? Does it fit perfectly from collar to crupper? It must be misery to work day after day in a harness that galls like an ill-fitting shoe.

Grow your own protein through clover and alfalfa, at the same time increasing the fertility of the soil.

Looking at those heaps of rotted hay where the stack yards were, do you not think it was somewhat wasteful to allow the stock to feed themselves from the stack? Resolve not to do that this season.

A dirty cream separator never does efficient skimming.

Where a stovepipe is erected through the roof of the shed kitchen, it should be raised high enough that the extreme top of it is above the highest point of the adjoining roof. This not only guards against sparks striking against the roof where the pipe is too low, thus setting the house on fire, but the stove will not draw well if the top of the pipe is below the line of the roof, especially when the wind is blowing against the slant of the roof.

Throw open the barn doors and keep the building dry.

The way to sharpen a disk is to pare off the blunt edge until thin and sharp. A neighbor of mine once took his disk harrow in to be sharpened, and the blacksmith, having no sharpener, heated each disk in his forge and pounded it out. There was no temper left; in fact, most of the disks fairly turned over when put to use. Thus the price of a disk harrow went in "finding out."

You wouldn't hesitate to work the hired man a few hours overtime in case of an emergency. Don't begrude him an occasional half-day's outing for fishing, hunting, etc.

We have just read where some fellow (presumably a farmer) advises using strong brine and soap-suds for lice on the cows and calves. He surely meant to use it in taking their hair off, for such a concoction would do it without fail. Strong soap-suds, a quart of kerosene (coal-oil) and a half-gill of crude carbolic acid added to twenty quarts of soft water, would sound more reasonable. We use it in these proportions, and it is fine for lice or as fly-repellant. Also a death-dealer for lice and mites in the poultry buildings.

When the cow kicks, sit on the milk stool till you count ten and you may not use the stool for a club.

When the housewife takes up dusty, germ-filled carpet this spring it ought to encourage every farmer in buying clean, sanitary rugs for the home. They are not only more conducive to cleanliness and good health, but they are easier to handle and, being reversible, are just as attractive and economical as carpets.

A clean, sanitary hog-wallow, with a good inlet and outlet, forms an ideal place for the hogs to fight lice. A generous sprinkling of reliable dip added to the water occasionally, will render the wallowing more effective.

One should make a close inspection of all drains about the farm at this particular season. Small animals sometimes crawl into the tiling and become lodged there, dying and completely choking the drain. Often a tile gives way and crumbles into the drain, closing it against the passage of water. Then, small animals often nest in the tiling, which soon checks the flow of water. Again, changed conditions of the earth's surface sometimes make it necessary to move entirely or materially alter the drain.

"Dope" your hogs with a handful of wood ashes for each animal, a teaspoonful of soda and a half-handful of salt. This will strike at the root of about all ailments in the swine herd—worms! Mix the above ingredients in mill-feed and feed in slop.

Too many of us bury the hatchet, but leave the handle sticking out for a good hand-hold.

If you try to nail or tie old, deadened bark back to the tree, it will do more harm than good, as it will not only fail to grow back, but will tend to deaden more bark, and perhaps the tree itself.

Take an idle hour or two one of these days and dig the borers out of the young orchard trees. They soon cut the life out of them.

No-Rim-Cut Tires
10% Oversize

Our 11% Reduction

On April 1st, we reduced our prices on No-Rim-Cut tires 11 per cent, on the average.

This was partly due to lower cost of rubber, partly to multiplied output.

Our policy is always to give you every cent we save. To keep our profits down to 8½ per cent.

That is one reason why Goodyear tires far outsell all others.

Rubber Prices

Cultivated rubber is becoming so plentiful as to force down the price of Para.

For the twelve months ending March 31st, we paid on the average $1.09 per pound. On March 31st, the price of rubber was 88 cents per pound.

On the other hand, fabrics, in the same time, advanced 15 per cent. Labor cost materially advanced.

So, on tires in general, lower cost of rubber has led to no large reduction.

Factory Cost

But Goodyear sales have doubled over and over. Immense new factories have been completed, with the most modern equipment.

Our output is the largest in the world. In motor tires it is nearly ten times larger than three years ago.

It was this multiplied output, in main part, which justified our 11 per cent reduction.

Our Profits

At the end of each year we advertise our profits. This is to assure you that in Goodyear tires you get all the value possible.

In times past this profit has averaged about 8½ per cent. And this reduction, in our opinion, keeps it that low this year.

Under this policy, and with our vast output, it will never be possible to sell equal tires for less than Goodyear prices.

Cost Per Mile

There will always be tires selling under Goodyears, until all learn that lesser tires don't pay. Tires can be made at half the Goodyear cost, by the use of cheap compositions.

But we shall see that you never, in any tire, get lower cost per mile. And that's the only right way to figure. We shall never offer, at any price, less than the utmost in a tire.

No Extra Cost

No-Rim-Cut tires, since this reduction, cost no more than any standard make of clinchers.

These tires never rim-cut. And 23 per cent of all old-type tires are ruined in that way.

In air capacity, No-Rim-Cut tires are 10 per cent larger than clinchers. And that, with the average car, adds 25 per cent to the tire mileage.

Yet these new-type tires, with all their advantages, cost no more than old-type tires without them. That's why hundreds of thousands of motor car owners have come to No-Rim-Cut tires.

Your tire upkeep will be immensely lowered when you adopt them, too.

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(1129)

CURRENT EVENTS

FREE wool was upheld by the lower house of congress, in the Underwood tariff bill, by a vote of 74 to 193. The republican minority, under the leadership of Representative Mann, of Illinois, attempted to amend schedule K of the bill by providing for a duty of 18 cents a pound on raw wool, and corresponding duties on woolen goods, but all efforts to amend the schedule were fruitless. The main tariff fight of the present session has been on free wool and graduated free sugar, but the democrats, led by President Wilson and Representative Underwood, have been successful in each instance. The tariff bill went to the senate last week and the upper house now has the various schedules under consideration. It remains to be seen whether the democratic leaders can keep the party members intact in the upper house as they did in the lower. If so, the new tariff bill will become a law within a very few weeks. Should the senate democrats show an inclination to object to some of the schedules, President Wilson proposes to hold personal conferences and even to go upon the stump in a campaign to enact the tariff bill exactly as it stands. The bill passed the house, in its original form, by a vote of 281 to 139. The finance committee of the senate will consider it, pro and con, for four or five weeks, after which it will come to a vote in the senate.

BOTH houses of the California legislature, by almost unanimous vote, passed the alien land act to which Japan objects and because of which Secretary of State Bryan spent the greater part of a week in Sacramento, as President Wilson's representative. The bill went to Governor Johnson and although he is extremely favorable to it, he withheld his signature until Secretary Bryan could return to Washington, confer with the president and file any protest desired. It is considered a foregone conclusion, however, that Governor Johnson will sign the bill. Secretary Bryan intimated that a referendum vote of the people would be demanded. If a petition can be secured with 20,000 signers it will be necessary to submit the new law to a direct vote of the people before it can be enforced. This vote would not be taken until the fall of 1914, so that the law would be held in abeyance in the meantime, giving opportunity for diplomatic negotiations between the United States and Japan. Somewhat similar anti-alien land laws are already on the statute books of Missouri, Washington, Arizona, Minnesota and even the District of Columbia, but Japan feels that the California law is aimed at it so directly as to be a national affront. The Japanese own but a small trifle of land in California, as compared with the immense area of the state, while Japanese immigration to this country is on the decline. At the same time the Californians assert that no sooner do the Japs buy land than the neighborhood prices decline and so a wrong is done to other landowners. The situation is a delicate one, but at the worst it will be referred to the international tribunal at The Hague for arbitration, so that hostilities between the two nations, as a result of the state law, are remote.

FEAR of a general European war, growing out of the Balkan crisis, is dissipated by the action of Montenegro in surrendering the stronghold of Scutari, taken by King Nicholas after a siege lasting six months. The Montenegro monarch announced first that Scutari could be taken from him only over the dead bodies of all his people, but better counsel prevailed and the surrender was made to the big powers last week, under promise of territory to Montenegro to offset the surrendered stronghold. The city of Scutari is to be made the capital of the new kingdom which is to be formed under the name of Albania, under the suzerainty of Austria. It was this latter country which demanded that Montenegro surrender the stronghold which had been won at such great cost and while Montenegro refused to give in to the Austrian demands it did surrender when all the big European powers joined with Austria and pledged that equal territory would be forthcoming for the withdrawal from the city which the Montenegrins so wished to retain. While all this is going on the Turk is being driven still further toward Asia, so that the present Balkan war bids fair to permanently rid Europe of "the unspeakable Turk" and all that he stands for.

PRESIDENT WILSON campaigned in New Jersey a couple of days last week endeavoring to bring about the jury reform which was one of those he had prominently in mind when he took up Jersey affairs as governor and to which he pledged his support when elected president, promising to return to his home state and campaign should the legislature fail to enact the desired law. What the president seeks is to have the power of drawing juries taken away from the sheriffs and placed in the hands of non-partisan commissions. He devoted the greater part of his recent tour to Essex county, the stronghold of "Jim" Essex, the radical democratic boss who has long been a political enemy of Wilson.

All nine assemblymen from that county are standing firmly against the jury reform and the president pleaded with the people to turn against the men who thus stood between them and self rule. President Wilson struck the keynote of his attitude, which has a national significance, when he said: "We want to redeem the jurisprudence of this state not only of the suspicion, but of the stain that men are not equally treated in these courts of law. The political machine of which it is misused in the state as in every other state of the Union is where the machine controls the sheriff's office. If you want to strike at the center and heart of corrupt politics, see to it that you put the control of grand juries into impartial and non-political hands. I am not of a sanguinary or a belligerent nature, but I got on the train today with a light heart, for if you tell me that there is something afoot to cheat the people in getting something for themselves, I am your man, enlisted for the battle." The president was cordially received and has high hopes that his stand will clear up the jury muddle not only in his home state, but elsewhere in the nation, where conditions are practically as bad as in New Jersey.

A MAMMOTH suffrage demonstration in New York was participated in by over 20,000 women, representing practically every state. The scenes of disorder which marred a similar demonstration in Washington were not in evidence in

The Power of Silent Service

If the crowd on the stock exchange kept quiet and let one man talk, that man could be heard in every corner of the room. But the shouting members produce a composite of sound, so that no one trader is understood except by a small group around a particular trading post.

If everyone were able to shout twice as loud, the result would be only a greater noise, and less intelligible.

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The telephone converts the spoken words into silent electrical impulses.

In a single Bell telephone cable, a hundred conversations can be carried side by side without interference, and then distributed to as many different cities and towns throughout the land. Each conversation is led through a system of wire pathways to its proper destination, and whispers its message into a waiting ear.

Silent transmission and the interconnecting lines of the Bell System are indispensable for universal telephone service.

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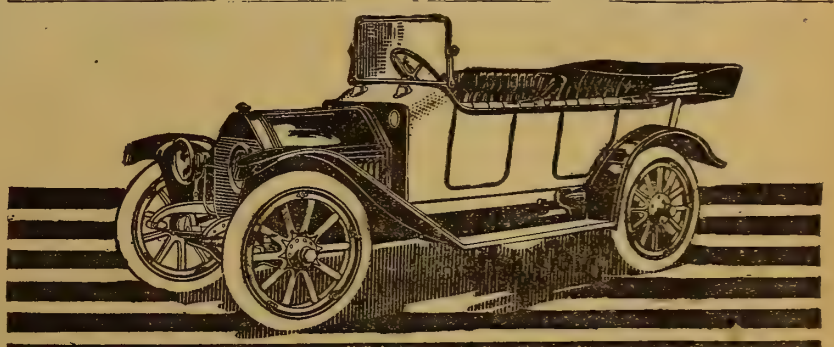

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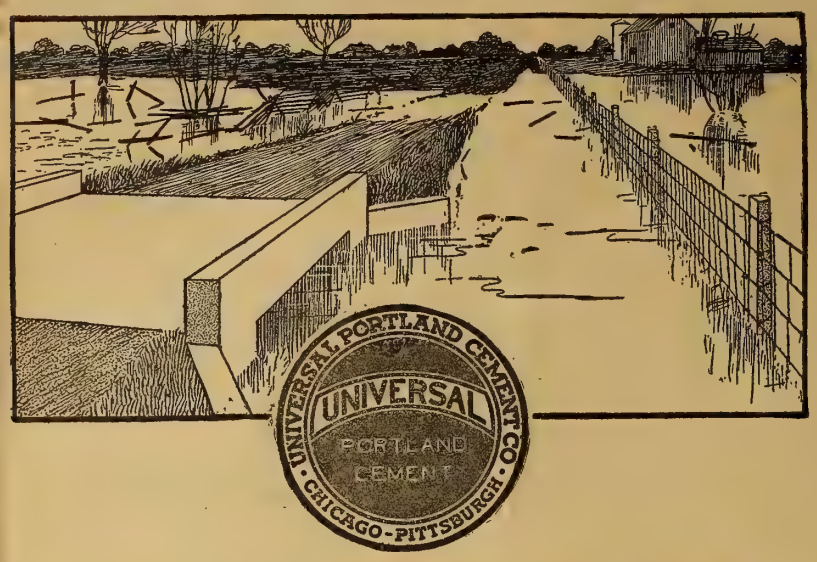

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The spring floods have emphasized the instability of wooden structures. The high water washed them from their foundations and carried them off like kindling wood. Had they been solidly built of concrete, they would have withstood the flood. In repairing the damage done by high water, rebuilding fences and culverts, use

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Before you do any painting, be sure to send for our booklet, "Paints and Varnishes for the Farm." It gives much valuable information in small space and will help you to decide what paint to use in different places. Write us for this booklet today.

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New York, the police maintaining good order and the spectators being friendly, instead of inimical as in Washington. Theodore Roosevelt was the principal speaker at the rally which accompanied the demonstration, urging the women to continue their fight and pledging further progressive support. The New York legislature has adjourned without adding that state to the suffrage list, but the movement has undoubtedly gained great headway there. Already nine states of the forty-eight in the Union grant women unrestricted suffrage and a strenuous campaign is being waged at present in four others: New Jersey, Maryland, Connecticut, and Massachusetts. Suffrage leaders are confident that before two years more have passed equal suffrage will prevail in a fourth and possibly a third of all the states.

THE STALLION LAW GETS ANOTHER.

To the Editor of The Homestead:

I, too, read M. Smith's opinion of the Iowa stalion law, also Mr. Stire's and Mr. Trueblood's, and I believe the last-named gentleman sees the stallion question in its true light.

A few years ago The Homestead gave the horsemen in this community a big boost in the horse show at the institute held at Ankeny. At that show and all the others held in this community we have buyers from the east as well as our home buyers, paying big prices. They ransack the whole country; we don't have to take our horses to market, the market comes to us.

Who brought this market to our own barns at the highest prices ever paid for grade geldings and mares? Was it the Iowa stallion law? Surely not! It was undoubtedly the men who had the nerve to buy good pure-bred stallions and stand them at a reasonable fee so that all their neighbors could use them, doing their part to get better grades. When we get a new horse we get a good one, but we keep the old one until the new one is tested and proves to be O. K.

Now comes the stallion man's hard luck. All this time he has been taking chances with his horse. Today one of his horses gets kicked on the hind leg, tomorrow one gets thrown and causes a puff on the hock, next the horse gets hot from exertion and catches cold, and off goes his wind. Right here I will say that I have handled stallions for more than thirty years and I have only been able to take two stallions past ten years with sound wind, and I don't believe my neighbors will say I am careless.

Now the law requires that I get a veterinarian to examine my horse and tell my neighbors whether they can use him or not while I pay the bill. If that is not an imposition I do not know what is. In this community a year ago there were fifteen pure-bred stallions old enough for heavy work and they had plenty to do. At present there are eleven stallions and three two-year-old colts, two of which I know are for sale before they have any mishap. There are two grade stallions on the stand this year where there has not been a grade stallion here for ten years and I give the Iowa stallion law all the credit for the change. Most of the older horsemen prefer to step down and out rather than take the risk of having their horses condemned through a mishap.

J. A. Sage.

Polk county, Iowa.

MUTTON AND ITS VALUE IN THE DIET.

Many experimental studies of the relative nutritive value of different kinds and cuts of meat, the losses sustained in cooking meat in different ways, the thoroughness of digestion of meat and the effect on palatability and economy of different methods of preparing it for the table, and similar questions have been studied in connection with the nutrition investigations of the department of agriculture, Washington, D. C.

Mutton and lamb have been widely used in many countries since early times as staple foods. In later years lamb has been more popular of the two in the United States, perhaps because special attention has been given to raising lamb for the market and to extending its season. The whole question is simply one of taste, and mutton in some form or other has always been a staple and a favorite food. That it is wholesome as well is generally believed, and this is borne out by inspection work of the department of agriculture, which shows that it is relatively seldom that mutton has to be rejected as unfit for food.

In composition and nutritive value mutton is practically the same as beef, and the average loss of weight in preparing the two kinds of meat for the table is also practically the same.

Buying in quantity is recognized as an economic procedure where the housewife has facilities for storage. There are many cases in which a side of mutton can be economically purchased for home use where a side of beef is too large for such a purpose, which implies an economy in the selection of mutton.

As regards digestibility, there is no practical difference in beef and mutton, both being very thoroughly assimilated. The characteristic flavor of mutton is commonly said to have its origin in the fat. It is generally relished, and may be developed or modified by various methods of cookery to meet the tastes of the family. That mutton fat can be used in the household in many ways has been demonstrated by experiments which have been made with it.

The ways in which mutton can be prepared for the table are very numerous. Some of these are well known to the housewife, and others are less familiar. All are worthy of a trial, since the ability to make many dishes with any given foodstuff is an easy way of securing variety in the diet, which is so desirable. The housewife who wishes to economize can make many savory dishes from the inexpensive cuts of mutton, which are palatable as well as wholesome.

Judged by its composition, palatability, wholesomeness, digestibility, relative cost, and the number of ways in which it can be prepared for the home table, mutton is an important foodstuff, which is well worth the attention of the housekeeper who wishes to provide her family with an attractive and palatable diet at a reasonable cost.—[United States Bulletin.

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

HUSBAND AND WIFE—PROPERTY RIGHTS.

A Subscriber, Winterset, Iowa.—A and B are husband and wife, and have no children, but A has one child by a former marriage. They bought a farm with an estate of B's, going in debt for part of the price, and made money off the land to pay balance and improve the place which is now valuable. The deed to the farm is in the name of B. They also bought town property, the deed being to A and B. (1) If neither one makes a will or other disposition of the property and A survives B, can A hold the farm during his life, or if not how will it be divided? (2) If B survives A how will the farm be divided? (3) On the death of either how would the town property be divided? (4) Upon the death of either how would the household goods and furniture and musical instruments be divided?

Answer.—(1) Assuming that the wife has no children or descendants, A would be entitled to half the farm, and the wife's heirs to the other half. (2) It will not be divided at all. B will continue to own it, and it will go to her heirs at her death. (3) If A dies first, his heir will be entitled to one-third of the town property, and the widow to two-thirds of it, but if B dies first her husband will be entitled to three-fourths of the town property, and her heirs to one-fourth of it. (4) Assuming that A owns the household goods and musical instruments, and dies first, the widow must have the widow's allowance, and one-third of balance, and A's heir two-thirds of balance. If wife owns them and dies first A would be entitled to one-half of them, because B has no children.

PUBLIC SALE—DEFECTIVE ANIMALS.

A Subscriber, Carlisle, Iowa.—Where a man has a public sale of live stock and sells horses, saying nothing about them except to state their ages, and persons who purchase horses at the sale afterwards find them to be subject to sick spells, or moon eyed or having other defects, can they recover damages from the sell?

Answer.—They cannot recover damages. Where no misrepresentation is made by the seller of animals at a public sale, the purchaser buys at his own risk, as to quality and condition of the animals he buys.

RENTAL AGREEMENT—CLEARING LAND.

A Subscriber, Webster City, Iowa.—A leased B's farm for three years beginning March 1, 1913, and ending March 1, 1916. There is some timber and a large lot of hazel brush on the land. By the terms of the lease each party is to furnish a team to do the farm work. A is to do the work and B is to furnish the farm machinery, and each one is to bear half the expense. All hogs on the place are to be owned jointly by A and B, and all other stock is to be owned jointly. When the ownership of such stock becomes equal, the lease is to cover all pasture land, as well as farm land on the place. B now demands that A shall cut, pile up and burn the hazel brush on the place, without getting any compensation therefor. If A refuses to do so can B prevent him from using the pasture? Nothing was said in the contract about cutting or burning the brush.

Answer.—A is not required to cut and burn the brush, and if he refuses to do so, B cannot lawfully prevent him from using the pasture. The parties should make some further amicable agreement about disposing of the brush, and thus avoid landing themselves in a fool lawsuit about a comparatively trifling matter.

CORPORATION—CAPITAL STOCK.

A Subscriber, Grand River, Iowa.—In organizing a pure-bred cattle breeders' association does the law require all the capital stock to be fully paid and is the personal property of the members liable for the debts of the association?

Answer.—The law provides that no corporation organized under the laws of the state of Iowa, except building and loan associations, shall issue any capital stock or any certificate or certificates of shares of capital stock, or any substitute therefor, until the corporation has received the par value thereof, in either money or property, and if in property, the executive coun-

(Continued on page 21.)

Regal

From Hundreds To Thousands

SOME six years ago we built our first hundred automobiles, but they were built with something more than brains and steel. We were determined to build into Regal cars a value that should be recognized in any and all competition—a value that would assure every Regal owner a good car, a dependable and long-lived car.

Now our yearly output totals thousands of Regal automobiles and our production is always oversold.

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207 PIQUETTE AVENUE
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$950
The Famous Regal Model "T" Underslung Touring Car
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For All Motors

Taking down motors and putting them up again is one of the costliest items of upkeep. And the best motors, when improperly lubricated, need this attention too often.

Polarine obviates this necessity by perfectly lubricating all parts.

It flows freely, even at zero.

It maintains the correct lubricating body at any motor speed or heat.

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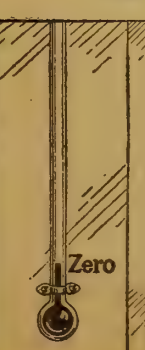


is used in hundreds of thousands of motors of every type—in every climate and temperature. It is sold everywhere so tourists can get it no matter where they happen to be.

For motor cars, motor trucks, and motor boats—the finest oil that's made today by the *World's Oil Specialists after 50 years' experience with every kind of friction problem.*

Insure a low upkeep cost—insure your car's maximum re-sale value—insure uninterrupted motoring pleasure by *using* Polarine.

STANDARD OIL COMPANY
(AN INDIANA CORPORATION)
Makers of Special Lubricating Oils for Leading Engineering and Industrial Works of the World
(120)

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

HOUSE FOR 150 HENS.

To the Editor of The Homestead:

A subscriber from Plymouth county, Iowa, asks for a plan of a poultry building suitable for 150 fowls, preferring to have it divided into three parts, one part in which to set hens, one for geese and the middle part for nests and to serve as a roosting room. Also a scratching pen.

Disposing of the goose question first, I would build a low, open-front shed as far removed from the chicken yards as possible. Geese need no elaborate quarters—just a shelter that is dry and kept well bedded with straw. Water fowl and chickens are not congenial companions or even neighbors. Chickens like and need clean water and clean quarters, while ducks and geese, as anyone experienced knows, seem to take a malicious satisfaction in producing reverse conditions. However, this is only a suggestion.

A score of years ago I dreamed of an ideal three-compartment poultry house. One part should be the roosting room, another the laying room, while between the two there would be a big room for scratching. To this latter room there would be sliding doors to close on stormy days and at night when the whole building would be as tight as a drum. Well, we live and learn—fortunately.

The first consideration in building a permanent house is the location. If there is a high, gravelly site available choose it. If not, create conditions as nearly like as possible. It will be time well spent to grade up a spot high enough to have good drainage. The south front is the best, the east next in line. If the house can be placed on the south side of barns or stacks they will prove a good windbreak, and I suggest a remote location from the hog pens. An old, long-nosed, yes, or short-nosed, sow can eat her head off in short order once she develops a taste for chickens. A building such as our correspondent is to erect will probably be "built" a long time.

The building material, whether wood, brick or concrete, is a proposition for the owner alone. Some authorities advise concrete and others would not "accept a concrete house as a gift." If in doubt lumber is a safe choice.

To satisfactorily house 150 hens under one roof requires 600 square feet of space. Three sides and the roof should positively be wind proof to avoid drafts. Always provide for ventilation to be on one side only. When the wind comes into the building from one direction and whistles through the house and out on the opposite side, then it is a draft. This sort of thing is a better starter for roup than if the fowls stayed in the trees all winter.

A building twelve by fifty feet should accommodate 150 hens. For that number it would be better to separate the flock at roosting time and also through the day if both hens and pullets are kept through the winter. A room at each end may be partitioned, each being twelve by ten feet. At the front of each of these rooms should be an opening fitted with a frame covered with muslin or burlap to be left open in mild weather and closed in cold, stormy weather. At each end and in front of the perches should be doors, but fitted so closely as to admit no draft.

In all plans for a poultry house always be on the alert to supply enough openings to admit the sun to every corner and crevice. The direct rays of the sun cause disease germs and mites to shrivel up. In the back of these rooms should be the perches and dropping boards—if you so desire. All minor particulars can best be worked out by the keeper, though a word of warning, I think, is admissible about avoiding complicated furnishings. Never have the fixtures of a poultry building stationary. Be able to throw it all out of doors on short order. If the mites ever get ahead of you, you will better understand.

Place the perches on a level and not more than three feet from the floor. If in a very cold climate or the large-combed breed of chickens is kept, a curtain is advisable to drop down in front of the perches at night. In this case the ventilator—the muslin-covered frame—could be left open except on stormy nights.

The middle room should be twelve by thirty feet and serve as a scratching, or dining room, sitting room and living room. This needs to be inclosed on the front with wire only, though curtains to lower in stormy weather will keep the litter from becoming wet. When our chickens must stay in damp houses we may expect anything that results from a cold.

If desired to separate the flock through the day a wire partition can be run through the middle room, thus practically keeping two flocks under one roof. This is desirable when keeping old fowls and pullets. The feed that is required to keep a pullet thrifty will make a two-year-old hen overfat and lazy.

I prefer the nests in the middle room. Insects do not multiply nearly so rapidly as if placed near the roosting quarters. A screen could be placed before the nests to give the privacy a hen desires. Flooring is desirable for the roosting rooms and if inclined will be easily cleaned. The best floor we have ever used in the roosting quarters was made from coal ashes. They were shoveled into the house while damp and tamped down solidly with an iron weight. This floor has dried hard and firm, and is very satisfactory. For the scratching room nothing equals a dry earth floor. Last, but not least, provide a great, big dust box in the warmest sunniest corner.

Minnie G. Stearns.

TUBERCULOSIS.

One of our Iowa subscribers, Mr. John H. Luth, writes as follows:

Will you please tell me what is the matter with my chickens? First they get lame in one leg, then in both, and their combs get pale. They eat, but mope around and get thin in flesh, dying within a week or ten days. They have been dying all winter, but today was the first time I opened one. Its liver was three times the ordinary size with large yellow spots all over it and the intestines were lined with small lumps. There were no spots on the heart, but great masses all around it. These chickens have been out doors every day this winter that the weather was fit, and have had access to a ventilated scratching shed when weather was too bad to be out and ventilated sleeping quarters. They were fed corn and oats in litter and sometimes sorghum seed. A bran mash mixed with boiled potatoes and milk was given at noon and corn at night, together with oyster shells and bran in hoppers. I suspect tuberculosis, but have not seen anything in your paper that covers all the symptoms.

All fowls sick with the same disease do not act alike. The outward appearance is manifested differently in different fowls and under different conditions. In this case the pale comb, loss of weight and general lassitude would indicate tuberculosis. The one that was cut open and the tubercles found on the internal organs settles any doubt about it being tuberculosis.

The direct cause is from a germ and they are getting uncomfortably numerous. Not every fowl that is exposed takes the disease, however. In this case there is a complication. The fowls have been weakened through mistaken kindness and enlargement of the liver was the result. They have been fed not wisely but too much, getting fat and flabby and, being debilitated, readily contracted tuberculosis. There is no cure for the latter once a fowl be comes affected. Kill every affected bird and burn the carcass. Admit sunshine to all parts of the building, burn the litter and spray with a disinfectant.

To improve the general condition of the flock feed very lightly of bulky food, cut out the corn and give an abundance of green stuff. Insist on less eating and more work. Give a teaspoonful of dissolved salts for each three fowls in the drinking water. As soon as a chicken is noticed to act as if it were out of sorts, give this one-half grain calomel and after twelve hours follow up with twenty grains epsom salts and two grains bicarbonate of soda.

POINTERS.

—The advertisement of E. E. Calvert, Shell Rock, Iowa, offering eggs from different varieties of land and water fowl appears elsewhere in this department.

—In a recent note concerning his Single Comb Rhode Island Red chickens, J. C. Porter, Ogden, Iowa, says: "My advertisement in The Homestead has been very satisfactory. I have been selling lots of eggs. For the remainder of the season I will furnish strictly fresh eggs at the rate of $4 per hundred." See announcement on page 12.

—J. E. Lewis, Brayton, Iowa, in sending copy for advertisement that appears elsewhere in this department, writes: "I am enjoying a good trade in Single Comb Rhode Island Red eggs and they are very fertile. The Fawn and White and Runner ducks are making a great laying record. They are of good color and are from prize-winning stock."

—Homestead readers in need of White Plymouth Rock eggs should read the advertisement of John W. Houselog, Bellevue, Iowa, that appears elsewhere in this department. He reports that his flock is in good, healthy condition. He is shipping nothing but fresh eggs, well packed and guarantees a fair hatch or eggs replaced at half price. He is also offering baby chicks at twenty cents each.

—With this issue Mrs. R. J. Hargleroad, Arapahoe, Neb., starts an advertisement in which she makes a great reduction in the price of eggs from her select Barred Rock flock. Mrs. Hargleroad has trap nested her hens for several years and today has one of the heaviest laying strains of the Barred Rocks to be found anywhere. Her entire flock run better than 200 eggs each per year. These rocks are also persistent prize winners and the prices of $1 per fifteen and $5 per hundred are distinctly bargain prices.

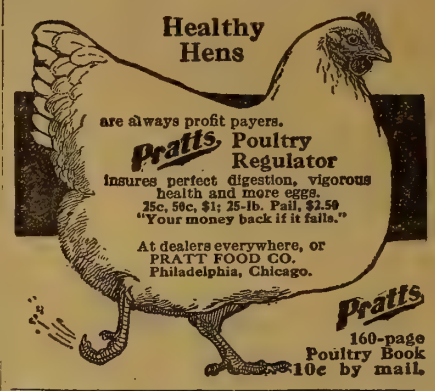
—M. V. Leeper, Redfield, Iowa, whose new advertisement offering Barred Plymouth Rock, Mammoth Bronze turkey and Indian Runner duck eggs for sale appears elsewhere in this department, writes: "After May 15th I will have only Pen No. 1 in special matings and will sell eggs two sittings for $3. Also eggs from farm range flock, thirty eggs for $1, $3 per hundred. Our eggs are practically all fertile this season. I have tested four incubators full, about 500 eggs, and they did not average over two clear eggs to the incubator."

An Ideal Orpington.

The accompanying engraving represents a White Orpington cockerel at the head of the yards of the Wonder strain of White Orpingtons owned by Frank Fortman, Dyersville, Iowa. Judges have pronounced this bird to

be one of the best living specimens of the breed. Mr. Fortman announces that from this date he will offer eggs for hatching at the rate of $2 for fifteen. These will be the run of ten different matings and will include as many eggs in each setting as is possible from the first pen headed by the above-mentioned cockerel. Special mating lists and other particulars may be had by writing to Frank Fortman, Box 23, Dyersville, Iowa.

—Rose Comb Rhode Island Red eggs from high-bred farm range stock are offered for sale by A. A. Worthington, Media, Ill., in his advertisement appearing elsewhere in this department.



LICE KILLER Liceci, strongest lice killing compound made. Works like magic. Simply put a few drops in nests and hang bottle in coop. Powerful evaporating vapors go into feathers, cracks and crevices. No painting, spraying or dusting. Easy to use. Circular free. Pound bottle prepaid 50c. Money back if it fails. Agents wanted. W. H. Metzger Co., No. 79, Quincy, Ill.

DOGS.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

FOR SALE SCOTCH COLLIE PUPS. All good ones. Address J. Ross Bachman, R. 3, Blakesburg, Iowa.

FOX TERRIER PUPPIES Also a few choice females, open or bred. Extra select stock. Address N. R. Rogers, Peru, Nebraska.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

TURKEYS

Mrs. J. E. Baxter, Walnut Grove, Minnesota
Will sell eggs from her Mammoth White Holland turkeys at $3.00 per ten. Write your wants.

M. B. TURKEYS, standard wt. and quality. 2 pens by 41-lb. old, 35-lb. young tom. Heavy boned. 10 eggs $4 and $3. Catalog. M. Henningsen, Dike, Ia.

EGGS AND TOMS—Large White Holland Turkeys
Mary Culver, R. 1, King City, Mo.

MAMMOTH BRONZE TURKEY EGGS
$2.50 per 11. Mrs. E. Millard, R. 3, Earlville, Iowa.

FOR SALE M. B. turkey eggs by express or parcel post, 30 cents each. Address F. J. Sexsmith, R. F. D. 2, Orient, Iowa.

GEESE.

WANTED. Eggs of Toulouse, Embden, G. African geese, Pekin ducks, B., W. Holland, Bourbon Red turkeys. State lowest price. Bx 613, Mankato, Minn.

S. S. HAMBURGS.

S. S. HAMBURG EGGS FOR HATCHING
Address H. C. SCHRAGE, BRISTOW, IOWA.

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific. $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS
SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

LEGHORNS.

ROSE COMB BROWN LEGHORNS, large, vigorous stock, strictly pure bred, have true Leghorn type, from best strains of layers known to breed. Eggs high fertility, carefully packed, 15, $1; 50, $2.25; 100, $4. Write Geo. Boyce, R. 3, Newell, Ia.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked cks. Heavy laying strain. A few choice cks., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

TELLS WHY CHICKS DIE

J. C. Reefer, the poultry expert, of 1894 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable FREE books.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address **R. R. STEWART, R. 2, Charles City, Iowa.**

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00; 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each, 100 eggs $6.00; 200 for $9.00. Address **DAVENPORT & MACK, Belmond, Iowa.**

S. C. WHITE LEGHORNS Heavy layers. $1 for 15 eggs; $3 per 50; $5 per 100. Baby chicks, $12 per 100. S. C. Brown Leghorns. Silver cup winners. $1 per 15; $3 per 50; $5 per 100. Baby chicks, $12 per 100. Sterling Poultry Co., Box 10, Sterling Ill.

S. C. W. LEGHORNS

CHALK WHITE, six firsts at Des Moines, 1912. Eggs and baby chicks. Write your wants. **J. M. Williamson, R. 1, Des Moines, Iowa.**

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition colored males scoring to 93½. $2.00 per 50; $3.50 per 100. Indian Runner duck eggs $1.00 per 13. Mrs. Will Michael, Selma, Iowa.

Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Eggs at half price. Write for circulars. Address **R. S. Ketchum, Box H, Boonville, Indiana.**

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

YOUNG'S STRAIN EXCLUSIVELY Single Comb White Leghorns, free range. Eggs $1 per 15; $5 per 100. Address White Feather Poultry Farm, H. L. Darby, prop., Hazleton, Ia.

RoseCombBrownLeghorns

20 eggs $1; 50, $2; 100 $3.50. 18 yrs.' experience. Orders filled promptly. Ella Tharp, Mt. Sterling, Iowa.

EGGS---ANY NUMBER S. C. White Leghorns. Great layers and winners. Choice yards and farm flock. As good as grow. Free catalog. Mary Culver, R 1. King City, Missouri.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $3, 100. I. R. D. eggs $1.25 per setting or $4.50 per 100. Farm range $3.50 per 100. Mrs. G. W. Brockway, Clarksville, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

REDUCED S.C.W. Leghorn eggs. Young's, 100, $4; 100 including 15 eggs from pen 2, $4.50; chicks, $10, 100 after June 1. Mrs. Wilson McIntyre, Red Oak, Ia.

EGGLAND EGG FARM. Single Comb White Leghorns, bred to lay. Eggs, $1 per 15, $4 per 100. Address Eggland Farm, Mt. Vernon, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

R. C. W. Leghorn Eggs, $1 for 15, $1.50 for 30, $4 for 100. From prize-winning stock. Ben R. Poortinga, Cordova, Iowa.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

BABY CHICKS from fancy S. C. W. Leghorns, high-scoring, 10c each. Eggs $1.00 per sitting. M. E. La Shorne, Epworth, Iowa.

PURE S. C. B. Leghorn eggs from farm flock, $3 per 100. Twenty years a breeder of the Leghorn exclusively. C. V. Douglas, Tecumseh, Nebraska.

S.C.BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S.C.B. Leghorn Eggs 75c per 15, $3.50 per 100. Baby chicks $12 per 100, farm range. Address Mrs. B. M. Painter, Lewis, Ia.

S. C. WHITE LEGHORNS Eggs 15, $1.00; 30, $1.75; 50, $2.25, 100, $4.00. Good clean stock. **Mrs. B. C. Marts, Hampton, Iowa.**

LEGHORNS Extra white, Rose Comb, winter layers; eggs 15, $1; 100, $5.00, postpaid. J. W. Osborn, Hanlontown, Iowa.

R. C. B. LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. **George E. Banton - - - Epworth, Iowa.**

SINGLE COMB WHITE LEGHORN EGGS Pen 1, 15, $5; pen 2, 15, $1.50; 100, $4. **W. W. PERRY, NEW HARTFORD, IOWA.**

R. C. Brown Leghorn Eggs for hatching. Farm range. Males from high-scoring stock. 15, 75c; 100, $3.50. Mrs Nelson Hyde, Manson, Ia.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points, 75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

EGGS for sale from vigorous, farm-raised S. C. W. Leghorns, $1 per 15, $5 per 100. Parcel post or express prepaid. Address A. R. Cochran, Anita, Ia.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock, $2 per 60, $3 per 100. Mrs. Chas. Lasley, Fioris, Ia.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

BUFF LEGHORNS Single Comb, farm range, 30 eggs, $1.50; 50 eggs, $2; 100 eggs, $3.50. Address Adelia Hilliman, Lockridge, Iowa.

S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1.50; 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

SINGLE COMB BUFF LEGHORNS EXCLUSIVELY Eggs, $3.50 per 100. Chas. F. James, Lockridge, Ia.

R. C. Brown Leghorns Pure bred, 12 years, fine birds. Eggs $3 per 100; over that, 30c per dozen. Mrs. Laura Mathes, Clarksville, Ia.

ORPINGTONS.

WHITE ORPINGTONS

Egg prices cut in two. $3.75 per 100. Chicks one third off. No chicks after June 15. After June 15 a large number of good breeders will be offered to make room for the 2,000 youngsters coming on. Your chance. Book orders now. White Wing Poultry Farm, C 294, Perry, Iowa.

S. C. BUFF ORPINGTON EGGS (Martz Strain) TWO grand pens. Prize-winning stock. Winter layers that are hard to beat. I guarantee 12 fertile eggs and will treat you right. Pen No. 1, $2.50; No. 2, $1.50 per 15. **Roy E. Bulechek - - Hills, Iowa.**

RARE BARGAIN IN WHITE ORPINGTON EGGS EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address **F. Fortmann, Box 23, Dyersville, Iowa.**

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

S. C. WHITE ORPINGTON KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock; 15, $1.50; 30, $2.50. Frank G. Myers, Iowa City, Ia.

S. C. B. Orps. Exclusively. Eggs from splendid flocks of pure-bred birds with size, shape and color right. $1.25 per 15, $2 per 30, $5 per 100. O. E. Sutcliffe, Clarksville, Iowa.

EGGS for hatching. S. C. Buff Orpingtons exclusively. Eggs from scored pen containing prize-winners; $1.50, 15; $6 per 100. Utility flock $4 per 100. Book orders early. V. H. Conner, Shell Rock, Iowa

Buff Orpingtons S. C. Eggs $1 for 15 or $4 for 100. From prize-winning American silver medal strain. Fine layers, heavy weight. Address W. M. Shaw, R. 6, Newton, Iowa.

Single Comb White Orpington settings after May 1st. Regular tock $1.50 per setting; selected pen, $3 per setting. Fertility guaranteed. Otto Falkenhainer, Algona, Ia.

W. Orpington Eggs Score 90 to 95½. 15 for $1.25. W. I. Runner Ducks. 12, $3. L. Peasley. Fairfield, Iowa.

WHITE Orpington eggs, Kellerstrass strain. Pen 1 scoring 93 and up, $5 per 15; pen 2 scoring 90 and up, $2 per 15. J. P. Schowalter, Wayland, Ia.

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

White Orpington Eggs $2.00 per 15; $5.00 per 50; $8.00 per 100. Mrs. George Aikman, R. 1, Box 30, Audubon, Iowa.

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15, $1.50; 30, $2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $6 per 100. Circular free. W. L. Bardsley. Neola. Iowa.

EGGS S.C. Buff Orpingtons, farm range, $5 per 100, or $1 per 15. Good type and color. Cook strain. Address Mrs. W. E. Zimmerman, Neola, Ia.

W. Orpington Kellerstrass strain. Eggs from 2 pens $1.50 and $3 for 15. Write for quantity prices. M. H. Mammen, Hinton, Iowa.

S. C. Crystal White Orp. eggs from large, healthy birds, fine laying strain; sitting, $1.50. Prices on larger orders. Mrs. Howard Niswander, Kinross, Ia.

EGGS Rose Comb White Orpington. These are bred to lay the year around. Address **P. F. SMITH, Montezuma, Iowa.**

S. C. Buff Orp. Eggs. 3 select pens; $3 for 15; $5 for 30. Farm range eggs. $1.50 for 15; $3.50 for 50; $6 for 100. Glynn Poultry Yards, L. B. 69, Cascade, Ia

KELLERSTRASS WHITES From a $100 pen. Also Owen Farm Buffs. Eggs $5 per 100 Orpington Farms, Big Rock, Ill.

S. C. BUFF ORPINGTON EGGS, 15, $1.25; 30, $2; 50, $3; 100, $5. Cook strain. A choice lot. Address, mentioning Homestead, Dan McCarty, Winthrop, Ia.

CRYSTAL WHITE ORPINGTON EGGS for SALE $1 per setting of 15. J. M Poole, Bristow, Iowa.

S. C. BUFF Orp. eggs, choice birds. Owens' strain, heavy layers, prize winners. Mottled Ancona eggs. Evergreen Poultry Yards, R. 4, Waterloo, Ia.

EGGS from S. C. Buff Orpingtons. 15 $1; 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

PLYMOUTH ROCKS.

B. P. Rock Eggs for Hatching

FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price. 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

Barred P. Rock Eggs for Sale

FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13¾ lbs., scoring 90 to 92¾; in 7 showings we won 38 1sts, 9 2ds, 6 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. **J. W. Wagner, Monroe, Iowa**

White P. Rock Eggs and Baby Chicks from high-scoring, prize-winning stock. Fishel strain. Free range. Eggs 15, $1; 100, $4.00. Chicks, 10 cents each. Address **L. A. CRULL, Route 2, Muscatine, Iowa.**

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

PLYMOUTH ROCKS.

EGGS from PRIZE MATINGS

I HAVE eggs from White Plymouth Rocks scoring 93 or better, and winners of 1st, 2d, 3d and 5th, Shellabarger judging, at one of biggest shows in this section. Birds all of best color, finely shaped, thrifty and healthy. Prices sent on request. Also fan tail pigeons for fanciers. Address **HENRY LINKE, - Wayne, Nebraska.**

White Plymouth Rock Eggs

PEN No. 1 is headed by 1st cockerel at Grinnell. Pen No. 2 is headed by a cockerel that was sired by a cockerel that was GRAND CHAMPION at Detroit, Mich., in 1912; eggs from these two pens $2 per 15. My utility flock is headed by cockerels scoring 94 and 95; all birds weigh 8 to 11 lbs. each. Utility eggs, $1.00 per 15; $2.00 for 30; $3.00 for $50; $6.00 for 100. Address CHAS. L. BERRY, Iowa City, Iowa.

STRATER BROS., Monroe, Iowa, breeders of

Barred Plymouth Rocks

34 years with size and quality and the best of layers. Prize winners and sired by prize winners. Eggs, $1.25 per 15, $2 per 30, $6 per 100. Special mating, $5 per 15. Prompt shipment.

1898 BUFF ROCKS 1913

EGGS from 3 exhibition matings at $3 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings. **M. E. KRAFT, - Brooklyn, Iowa.**

Barred Plymouth Rock Eggs

And baby chicks from prize-winning stock and excellent layers of both matings. Write for mating list. Mrs. L. C. Reese, Prescott, Iowa.

WHITE ROCK EGGS

Strictly pure white with size and standard points, combined with excellent laying qualities. Selected eggs for hatching, $1.50 per 15; $2.25 per 30; $3 per 45. Satisfaction guaranteed or eggs replaced at half price. Baby chicks, 20c ea. John W. Houselog, Bellevue, Ia.

Barred Rock Eggs

FROM first prize winners and pure Bradley stock. Both cockerel and pullet mating, $3 to $5 per 15. $6 per 100. Stock at all times. Write for circular. **ALBERT A. FOSTER, Russell, Iowa.**

White Rock Eggs for Sale

FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100. **Charles Guth - - Berwick, Iowa.**

BARRED ROCK EGGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring. 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

Eggs for Hatching B. P. Rocks, fresh selected, from fine narrow barred birds of large size scoring 90-92½. Winning and laying kind, weighing 10 and 12 lbs. 15, $1.50; 30, $2.25; 100, $5. G. J. Pfeil, Central City, Ia.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia.

Barred Rock Eggs for hatching. These are cheap quality considered; pen A, $3 per 15; pen B and C, $2 per 15; range flock, $1 per 15 or $5 per 105 **CHAS. McCASKEY, OGDEN, IOWA**

B. P. Rock Eggs From best prize-winning stock, $1.00 per 15; $5.00 per 100. Send cash with the order. Address Mrs. R. J. Hargleroad, Arapahoe, Neb.

BRADLEY BARRED ROCK

EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia.

B. P. R. Eggs (Easton, Shellabarger, Bradley Bros. strains), 15 for $1, 100 for $5.00. Toulouse geese, eggs 50 cents each. Address James Cockerton, Whiting, Iowa.

B. PLYMOUTH ROCK EGGS, 30 FOR $1.00

100 EGGS, $3.00. M. B. turkey eggs, 13 for $3.00. Toulouse Geese eggs, $3.00 for 10. Address **MRS. ROBT. HUNT, EARLVILLE, IOWA**

Barred Rocks Exclusively EGGS $1 per 15; $1.50 per 30 or $4.00 per 100. **ASA ANDERSON, New London, Iowa.**

BARRED Plymouth Rock eggs from pure-bred, well-barred, heavy-boned stock, 15, $1.25; 50, $2.50; 100, $4. Henry Angerer, R. 1, Wilton Junction, Ia.

Thompsons, Ringlets, Bradley Bros, Lathams. Special matings. Eggs $2.50, 15; flock $2.50, 50; $4.00, 100 Stock direct. Wm. Kerr, Box B, Winthrop, Iowa.

EGGS from Grove Hill strain B. P. Rocks. Extra good layers From pens 15, $2.50; utility 100, $5; 50, $3; 15, $1.50. Mrs. C. F. Sealock, R. 5, Neola, Ia.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100, $4. Write for particulars. Grant Lynn, Spirit Lake, Ia.

WHITE Rocks, farm raised, Fishel strain, cockerels score 93½ to 96. Eggs, 15, $1; 50, $3; 100, $5. Address Mrs. A. H. Klepper, R. 1, Muscatine, Iowa

BARRED Plymouth Rocks, pullet mating, Headed ckls. of Latham and Winikee strains. Eggs 15 $1; 100 $5. H. V. Hethershaw, R. 6, Des Moines, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

EGGS Pure-bred, fine white Plymouth Rocks, Fishel strain, heavy boned. Five cents per egg. Mrs. H. Wood, Moville, Ia.

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose, Ia.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.25 per 15; $5 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

PRIZE-WINNING White Plymouth Rocks, fine, large, farm raised. Eggs, $1.00 per 15, $4.00 per 100. Address Mrs. Jas. Pedley, Route 3, Britt, Iowa.

PLYMOUTH ROCKS.

HAWKINS - BRADLEY - THOMPSON

BARRED Plymouth Rocks. Our yards headed by Bradley cockerels scoring 91¾ to 94½. Birds have fine style and excellent plumage, being barred to the skin. Prize winners wherever shown. We guarantee fair hatch and safe delivery. 15 eggs $1, 30 eggs $2; 50 eggs $3; 100 eggs $5.50.

H. C. Saunders & Son, - Montezuma, Iowa.

EGGS FOR HATCHING

BARRED P. Rocks exclusively for 20 years. Yards headed by cocks and cockerels scoring 92½ to 96½ points. Descendents from first-prize winning cocks and cockerels weighing 10 to 13½ pounds. Hens and pullets weighing 8 to 11 pounds. Deep, straight, fine barring. We won 37 prizes at our last showing. Eggs $1.50 per 15, $2.50 per 30. Prompt shipment and eggs guaranteed fertile. M. H. MABEL, Monroe, Iowa.

WHITE PLYMOUTH ROCK EGGS

FLOCK consisted of 150 pullets selected from 400 and mated with 11-pound pure-white cockerels. Prices $1.00 for 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Order from this ad.

JAS. JENSEN & SONS, NEWELL, IOWA.

Barred P. Rock Eggs and Baby Chicks

HAWKINS, Thompson and Bradley strains. From high-scoring, good laying stock, heavy bone, deep, narrow barring. 15 eggs, $1.25; 30, $2.25; 100, $6.50; 200, $10. Mrs. Elsie Noble, R. 2, New Boston, Ill.

NOTICE-- Eggs at half price. From standard exhibition Barred Plymouth Rocks, Bradley strain. Pens contain many birds closely related to noted Chicago show winners, large size, splendid markings. Price $1 15. Also W. Wyandots. $1. 15. Mrs. H. J. Hess, R. F. D. 6. Waterloo, Iowa.

EGGS, BARRED PLYMOUTH ROCKS

BRED for size and eggs from hens weighing from 7-10 lbs. 30, $1.50; 100, $4. F. W. Mack, Spencer, Ia.

FISHEL WHITE ROCKS direct. Eggs for hatching from high-scoring and prize-winning stock at reasonable prices. Address Mrs. A. Barclay, R. 3, Madrid, Ia.

BUFF ROCK EGGS. Who has the best Buff Rocks in the Mid-West? Send for catalog and learn about the strain that always wins. Rouen Duck Eggs C. & C. J. Van Lint, Pella, Ia.

WHITE ROCKS Great layers. Flock headed by birds from Fishel's Red Eyes, 5 point comb. Eggs, 15 for $1; 100, $5. Pens $2. Baby chicks 15c. Mrs. M. Baird, R. 8, Red Oak, Iowa.

Barred Plymouth Rocks Wales' strain W. Wyandottes. Fishel strain large, fine marked birds, farm raised eggs $1.00 per 15; $5.00 per 100. H. J. Brown, Belmond, Iowa.

Thirty Years' Experience As a breeder and exhibitor of Plymouth Rocks. Eggs from barred, buff, white. $1 for 15, $2.50 for 50. A. Mathews, Mt. Union, Iowa.

BARRED ROCKS Eggs from large boned, bred-to-lay stock. Fine shape and color. $1 per 15, $1.50 per 30. Address H. M. SKIPWORTH, LUANA, IOWA

BARRED PLYMOUTH ROCKS Hawkins, Bradley strains. Eggs for hatching from choice stock, large and vigorous, 15, $1; $5 per hundred. Mrs. C. H. Case, Elliston, Iowa.

BUFF ROCKS High-scoring, with trap-nest and show records. Proven winter layers. Eggs: 15, $1, $2, $2.50; 100, $5. Catalog, chicks. M. B. turkey eggs. Write M. Henningsen, Dike, Ia.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

White Rock Eggs, $2.75 Per 100

Write B. W. ECKELS, NEVADA, IOWA.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

White Rocks White View Farm, Fishel strain. Eggs $1.50 for 30, $2.25 for 50, $4 for 100. Address Miss. C. E. Pugh, Menlo, Iowa.

BUFF ROCK EGGS from high-scoring stock. Range, 15, $1.50; pens, $2 and $2.50. Discount on incubator lots. Address L. C. Crum, Red Oak, Iowa.

WHITE Plymouth Rock eggs from high scoring full bloods, $1.50 per 15, or $6 per 100. Satisfaction guaranteed. G. H. Blake, Oelwein, Iowa.

B. P. Rocks only; direct decend of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

Barred P. Rock Eggs for hatching. If you want extra good stock write us. Orville O. Jones, R. No. 1, York, Neb.

White P. R. Eggs from very best selected stock, $1 per 15, $2 per 30, $5 per 100. Mrs. Jack N. Gatzemeyer, R. F. D. 1, Bancroft, Neb.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville, Ia.

Barred Rock Eggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

White Rock Eggs Selected and guaranteed. Write for prices. Address Mrs. Myrtle Carter, Panora, Iowa.

WHITE P. Rocks, S. C. R. I. Reds. 15 Eggs parcel post $1.75. Express $1.50. Safe delivery and fertility guaranteed. Mrs. G. W. Alberts, Leigh, Neb.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4. Address **O. N. Woody, Route 3, Newton, Ia.**

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

B. P. ROCK EGGS, winners at Independence; show pen, $2, 15; Utility, $1, 15; $4, 100; I. R. ducks, 15, $1. A. E. Murlow, Independence, Iowa.

W. P. R. Exclusively. Carefully selected stock. Eggs $1.25 per 30 or $3.50 per 100. Address Mrs. W. S. Huber, Tipton, Iowa.

WYANDOTTES.

White Wyandottes. Egg prices cut in two, $3.75 per 100. Chicks one-third off. No chicks after June 15. After June 15 a large number of good breeders will be offered to make room for the 2,000 youngsters coming on. Your chance. Booking orders now. White Wing Poultry Farm. C 294, Perry, Iowa.

Silver Laced Wyandottes WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15. $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50, 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

WHITE WYANDOTTE EGGS $1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2. unscored, $15 per doz. **Ethel H. Shaw, Route 6, Newton, Iowa.**

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15, $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia,

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $1.50 for 15, $5 for 100. R.S.Tennyson, Clarksville, Ia.

FOR SALE. Late hatch utility W. Wydt. breeding pens. Male and 8 young laying females, $8. For hatching, 50 eggs, $2.50. Carl Ehlers, R.3, Gretna, Neb.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs, $1 per 15; $2.50 per 50. W. H. Ilsley, Milo, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wyandotte Eggs 15 for $1, 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble, Mrs. M. C. Humphrey, Derby, Ia.

WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address **E. S. DYAS, Bellevue, Iowa.**

FOR SALE White Wyandotte eggs for setting, $2.00 for 15. $5.00 for 100. Address Jas. W. Grinstead, Jr., Mitchellville, Iowa.

SILVER LACED WYANDOTTE EGGS

15, $1; 30, $1.50; 100, $4. Miss Julia Driscoll, Plainfield, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92½. Write for prices, R. B. Rowe, Indianola, Ia.

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please; $5 per 100; $1.50 for 15. **Mrs. F. O. Elliott, Kent, Iowa**

EGGS from extra choice, large, vigorous, pure White Wyandottes, farm range. $1, 15; $5, 100; special pen, $2 per 15. Mrs. Geo. Roe, Bellevue, Ia.

PARTRIDGE WYANDOTTE EGGS. Fancy Buff Wyandottes. Order now. Thos. L. Morlan, Indianola, Iowa.

FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

White and Silver Laced Wyandotte Eggs, 15 for $1, 100 for $5. Address Malmberg Bros., Route 4, Red Oak, Iowa.

WHITE WYANDOTTES EXCLUSIVELY

EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

BRAHMAS.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100 Write at once to Mrs. J. M. Dries, Ashton, Iowa

MINORCAS.

EGGS S. C. Black Minorca. Ideal laying strain. Reduced prices till June. 50 or over 5c ea. Less no. price reasonable. C. G. Dake, Epworth, Ia.

BLACK MINORCA Eggs in seasson, 15 for $2, 30 for $3.50, 50 for $5.00. Address H. L. Simpson, R. R. 13, Epworth, Iowa.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

DUCKS.

Indian Runner Duck Eggs

FAWN and white. pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

Fawn and White Indian Runner Duck Eggs.

FROM the Harshbarger Blue Ribbon strain. $1 per 15. Also White P. Rock eggs from fine strain. Bred to lay. Same price. M. A. Carty, Earlville, Ia.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Mallines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons,** R. 2, Prophetstown, Ill.

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6, John M. Hall, Williams, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from Fawn and White, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners. $2.00 per 12. Address E. A. KAUFFMAN, LOCKRIDGE, IOWA.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

Indian Runner Duck Eggs From a heavy-laying strain, 15 for $1.00, 30 for $1.75. 50 for $2.50. None but fresh eggs shipped. Edward Klinetob, Clarksville, Iowa.

DUCKS Indian Runner ducks. Fawn. Great layers. 13 eggs for $1, 100 eggs $5. Sterling Poultry Co., Box 10, Sterling, Illinois.

TRUE fawn and white I. Runners. Ducks scored to 94½. drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

INDIAN Runner ducks, scored drakes with fawn heads and backs; eggs $1.00 for 15. $3;00 for 50, $5.00 for 100. Address MRS. C. R. SWITZER, Lewis, Ia.

Indian Runner Ducks Fawn and white, the laying strain. Eggs $1.50 for 13; $4 for 50. M, H. Mammen, Hinton, Ia

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels. Oakland, Iowa.

INDIAN RUNNER Fawn and White eggs reduced to $1 per 20, $2, per 50. K, Hemmen, Blairsburg, Iowa,

Indian Runner Duck Eggs for hatching. Excellent layers. $1 per 15, $2.50 per 50. Address Herbert N. Jenny, R.2, Clarksville, Ia.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

EGGS—Pekin ducks, headed by drake scoring 96¼ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

PHEASANTS.

CHINESE PHEASANTS Eggs from pure-bred birds. Ten eggs for three dollars, packed to carry safely. For information or eggs write T. B. McDonald, Lovilia, Ia.

BABY CHICKS.

Baby Chicks 4 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A, Chatfield, Ohio

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address **H. E. HUSTON, - Iowa Falls, Iowa**

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.

REDS 75 cents per 15 or $4 per 100. Pen No.1, $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Address, mentioning The Homestead, **J. B. HEISEL, - Grinnell, Iowa.**

EGGS FOR HATCHING R. C. R. I. Reds in pen No. 1, $1.00 per 15; pen No. 2, 75c. W. Wyandotte, B. P. Rock, S. C. W. Leghorn, B. Orpington, also F. W. I. Runner, Pekin and Rouen duck eggs, $1.00 per 15. Address **E. L. DICKERSON, Ragan, Nebraska.**

S. C. RHODE ISLAND REDS

RANGE of 300 full blood birds. Eggs $5 per 100. Express prepaid. Shipped in folding egg cases. No broken eggs. One exhibition pen, either comb. $2 per 15, laying hens, $1.50 each. Address **F. O. MARTIN, - - FLOYD, IOWA**

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction gnaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa,

SPECIAL offer to all new customers ordering eggs from our S. C. Reds during May. Eggs, $1 to $5 per 15; $5 per 100. Free mating list. J. A. Holmes, Steamboat Rock, Ia.

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30. **C. H. North, R. D. 2, New Hartford, Iowa.**

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15. $3 for 50. $5 for 100. A. B. Walton, Wilton Junction, Iowa.

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains, Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

RHODE ISLAND REDS.

Rose Comb Rhode Island Reds

EXCLUSIVELY.

EGGS FOR HATCHING

LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City. **Henry G. Walker - Iowa City, Iowa**

RHODE ISLAND REDS

SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

MORRILLVILLE POULTRY FARM

ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

ROSE COMB R. I. REDS

TUTTLE and Bushman eggs. High scoring, prize winning, good laying. Pen 1, 15 eggs $5; 2, farm range, 15, $2; 50, $5; 100, $8. 20% additional eggs furnished on orders booked next 30 days. Write for circular today. W. W. Forbes, Box 441, Jefferson, Ia.

"ALLENDALE" R.C.R.I. RED EGGS FOR SALE

EGGS from four fine pens, headed by males scoring high and prize winners at $2.50 to $5 per 15. Utility eggs from a fine flock at $1 per 15 after May 10th. Send for free mating list. Address **Mrs. J. H. Allen, New Sharon, Iowa.**

Single Comb Rhode Island Reds 4 grand pens headed by 2d and 4th cockerels Dubuque; 1st ane 4th cockerels Oelwein. Eggs half price. $1.00, $1.50 and $2.50 per 15. Send for mating list. C. E. Hayes, Box A, Lamont, Iowa.

RoseCombReds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain; sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

R.C. Rhode Island Red Eggs Exhibition and laying strain; 1st pen $5.00 per 15; 2d, $3; 3rd, $1.50. Fertility guaranteed. Red Poultry Farm, Randalia, Iowa.

R.C.RHODE ISLAND REDS

EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

S. C. R. I. Red Eggs from bred-to-lay strains. pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa.

EGGS Rose Comb Reds, pen 1, cockerels score 93¾, 15, $1.25; 100, $5.50. Pen 2, 15, 75cts; 100, $3.50. Address Miss Maggie Henning, Ira, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1.20 for 30; $3 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.00 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

EGGS from high-bred stock R. C. Reds; farm range, closely sorted, 75c per 15; $3.50 per 100. A. A. Worthington, Media, Ill.

Single Comb R. I. Red Eggs for Sale

15 for $1; 100 for $4. Address J. C. Porter, Ogden, Ia.

S. C. REDS Large, good shape, extra color. Great winter layers, fertile eggs guaranteed, 15, $1; 50, $3; 100, $5. Woodlawn Farm, Sterling, Ill.

EGGS from thoroughbred Reds (either comb) 15, $1; 100, $6. Special pen $2.50 per 15. Laying hens, $1.50 each. Mrs. A. Laun, Riverdale Farm, Floyd, Ia.

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address **Mrs. Charles Belz, Conrad, Iowa.**

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

Rose Comb R. I. Red eggs, 15, $1. 30, $1.85, 100, $5.00. Address J. Nissen, Meservey, Cerro Gordo County, Iowa

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

THOROUGHBRED R. C. R. I. Red eggs; pen 1, 15 for $1.50, 30 for $2.75; pen 2, 100, $4.75; 45, $2.50. Mrs. E. C. Powers, Osage, Ia.

SINGLE Comb Rhode Island Reds exclusively. Fine breeding, vigorous farm-raised stock, eggs for hatching, 15, $1; 100. $5. R. H. Ortman, Bancroft, Ia.

S. C. R. I. Reds Exclusively from prize-winners, $5 per 105, $1 per 17 Address I. C. WELCH, - BEDFORD, IOWA

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100, Address **George Hunt, Earlville, Iowa**

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

S. C. R. I. REDS Eggs 75 cents per setting, $4.00 per hundred. Address Mrs. A. O. Adkison, Oakland, Iowa.

S. C. R. I. RED Eggs from large, red, cup-winning stock, $5, 100; $1, 15; pen $2, 15. Address Mrs. Fred Miller, Adair, Iowa.

S. C. R. I. R. EGGS $1.00 per 15 and 75 cents per 15. From cockerel dark red, no smut, weight 8 lbs. Scores 92¾. Address W. I. PRICE, Ira, Iowa.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS First pen $1.50 for 15, second pen $5.00 per 100. **C. F. BATTELS, Indianola, Iowa.**

LANGSHANS.

Black Langshans S. C. Brown Leghorns. The kind that lays and pays. Have won several ribbons. Send in your orders for eggs. Mrs. S. S. Hunzeker, R. 2, Steinauer, Neb.

Langshan Eggs Large black eggs from stock scoring to 94. $1 per 15, $2.25 per 50, $4.50 per 100. Mrs. Geo. Tutt, Marathon, Iowa.

EGGS FOR SALE—From high-scoring stock, in Black Langshan and Buff P. Rocks. Write me your wants. H. P. Myers, Box 112, Murray, Iowa.

BLACK LANGSHAN EGGS for hatching, Fine, large-boned, farm stock. 75c per 15 or $4 per 105. Mrs. Jacob Conner, Sigourney, Ia.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

BLACK LANGSHANS Scored by Hale & Bridges. Eggs, $2 per 15; $1 per 15; $6 per 100. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poutry Farm, Hedrick, Ia.

BLACK Langshan Eggs for hatching, fine, large boned, farm range, score 93-95. 75c per 15 or $4 per 100. Address Mrs. J. H. Trimmer, Anita, Iowa.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

GUINEAS.

White Guinea Eggs, $2.00 for 10.

ETHEL H. SHAW. Route 6, NEWTON, IOWA.

MISCELLANEOUS.

Dripps Has Fine Poultry

WHITE ROCKS Fishel strain. Eggs from show birds 13, $5.
BARRED ROCKS Eggs from Dripp's finely bred show birds. $1 per 13; $5 per 100.
WHITE LEGHORNS Eggs from Dripp's finely bred snow white show birds of best laying strains, $1 per 13; $5 per 100. Send me your order, mentioning The Iowa Homestead. Address **JOHN I. DRIPPS, Springville, Iowa.**

CHICKS 10c; DUCKS 20c UP
Eggs Reasonable

IN hundred lots. See free circular. White Leghorns, Barred Rocks, Light Fawn, also English Penciled Runners. White eggers. Winners 16 best ribbons Burlington, Galesburg. R. O. Dickson, Premium Poultry Farm, Box 30, LaHarpe, Illinois.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS—Barred Rocks, Bronze Turkey—EGGS

BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address N. V. Leeper, Redfield, Iowa.

BARGAIN PRICES EGGS

S. C. R. I. REDS, $4 per 100; utility flock, special pens now half price, pens 1 or 2, $2.50 per 15, $4.50 per 30; pens 3 or 4, $1.50 per 15, $2.50 per 30; pens 5 or 6, $1 per 15. Address, mentioning Homestead, **L. G. Johnson, Box 4, Steamboat Rock, Ia.**

48 CHICKS FROM 50 EGGS

BIG incubator hatch, good stock, big layers at reduced prices. S. C. Brown Leghorns, White Plymouth Rocks. Drinking fountain free with 20 eggs, 5 cents per egg; also baby chicks. Address **H. HASS, LANSING, IOWA.**

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

Blue Andalusians

EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. **A. J. Arends, Blairsburg, Iowa.**

$1 PER 15, $5 per 100 eggs. Barred W. Buff Rocks. R. I. Reds, W. Wydts., B. Langs., Lt. Brahmas buff and white Orps., Leghorns. Toulouse geese, $1.75 per 10; white guineas, $1.50 per 12, bronze and white turkeys, $2 per 7. Monroe Poultry Yards, Monroe, Ia.

WANTED A large number of Bronze turkey and Toulouse geese eggs at reasonable prices. Address lowest offer and state amount you can furnish at once. **Des Moines, Iowa, P. O. Box 734.**

EGGS From stock scoring 91 to 94½. Rose Comb Wh. Orpingtons, $1.40 per 15 eggs. R. I. Whites, $1.40 per 15. S. S. Hamburgs, $1.75 per 30. I. R. ducks, $1.75 per 30. Sarah Lowe, Clarksville, Ia.

100 RIBBONS WON IN 1912. Egg for hatching from these show birds. S. C. R. I. Reds and S. C. Brown Leghorns at $1.50 per setting, or $5 per 100. Verne E. Argo, Tipton, Iowa.

EGGS Barred Wh. Buff and Partridge P. Rock. Buff Orpington, White Wyandotte, S. C. R. I. Reds, and Mammoth Bronze turkeys. Free catalog. Address A. D. Murphy & Son, Essex, Iowa.

EGGS for hatching from White Feather Poultry Yards. High-scoring W. Wyan. W. H. turkeys. Book orders early. Mrs. C. F. McLochlin, Gray, Ia.

EGGS, B. and W. Langshans, S. E. Buff Orps., Lt. Brahmas, R. C. R. I. Reds, $1.50 per 15; $6 per 100. Mrs. S. E. Newell, R. D. 6, Audubon, Iowa.

EGGS for hatching, S. S. Hamburgs, S.C. Anconas, Prt. Wydts, S.C. Buff Leghorns, I.R. ducks 1t. F. and W. $1 setting after May 15. E. E. Calvert, Shell Rock, Ia.

B. LANGSHANS, I. R. DUCKS High-scoring stock. Eggs, 75c per 25, $4 per 110. Satisfaction guaranteed. B. A. Randell, Mt. Zion, Ia.

S. C. R. I. Red eggs from great laying strain, good color, 15, $1; 50, $3; 100, $5. F. W. I. R. ducks from prize-winning stock, 15, $1.25. J. E. Lewis, Brayton, Ia.

Collie Pups, S.C. Brown Leghorn Eggs from scored farm range stock. 50 for $2, $3.50 for 100. Mrs. A. N. Bonnett, Birmingham, Ia.

EGGS From M. B. pullets and 26-lb. hens, Orpingtons, Hamburgs, Brahmas, all guaranteed to hatch. Address **Steve L. Morlan, Plano, Iowa.**

NEWS OF THE SALE RING

The Omaha Association Angus Sale.

The sale of Aberdeen Angus bulls, held at Omaha, Neb., on April 29th under the auspices of the American Aberdeen Angus Association, was unusually well attended and this time they had a consignment that was a credit to the breed. It was an evenly balanced lot from beginning to end and was a credit to those men who consigned them to the sale. Sixty-two head were sold for $11,230, or an average of $181, and it is the best average for a strictly Angus bull sale of that number that has ever been held in the West. In the forenoon the association ribbons were awarded as follows: Bulls over eighteen months, No. 5, Sir Kildon 2d, consigned by C. D. & E. F. Caldwell, 1st; No. 6, Proud Prince C., same firm, 2d; No. 49, Baliric, J. S. Athen, 3d; No. 33, Queen's Eric Lad, Thos. Tyner & Sons, 4th; No. 48, Alcott, L. Goilinghorst, 5th, and No. 36, Heather's Lad M. 2d, N. M. Murphy, 6th. Bulls under eighteen months: No. 8, Barbara's Glen, C. D. & E. F. Caldwell, 1st; No. 1, Black Knight Eric, same firm, 2d; No. 13, Esmond Eric, M. A. Martin, 3d; No. 39, Minnie's Eric 2d, W. A. Holt, 4th; No. 63, Quiet Lad of Coon Creek, C. J. Hadley, 5th, and No. 19, Gay Windsor 5th, C. A. Martin, 6th. The top of the sale was Esmond Eric, consigned by M. A. Martin, Wall Lake, Iowa, and he went to Moore, Cannon & Bell, Silver Creek, Neb., at $350. The outcome of the sale was decidedly encouraging to the officers of the association and the Angus breeders in general and judging from the demand for bulls, the future looks particularly encouraging. Col. Igo did the selling assisted by Col. Judy in the ring, with Secretary Charles Gray as master of ceremonies. Below is a list of the entire offering:

Black Knight Eric, calved February, 1912; W. G. Tobin, Highland, Kan. $215
Eola's Black Lad, calved May, 1911; J. H. Smithson, Ellengsburg, Wash. 220
Eric's Prince, calved June, 1911; Percy Mellor, Beemer, Neb. 195
Eric Blanchard, calved June, 1911; K. W. Klopping, Underwood, Iowa 250
Sir Kildon 2d, calved October, 1911; E. Kingsley, Waverly, Iowa 315
Proud Prince C., calved July, 1911; Fred Krambeck, Marne, Iowa 345
Elfin's Black Lad, calved July, 1911; J. M. Bovee, Craig, Neb. 225
Barbara's Glen, calved April, 1912; N. W. Keiser, Paullina, Iowa 160
Royal Baronet, calved January, 1912; Brown & Walker, Clarinda, Iowa 200
Brave Baronet 3d, calved March, 1912; Chas. Frahm, Cadams, Neb. 130
Ebony Eric, calved January, 1912; A. J. Hayden, Humboldt, Iowa.. 180
Esmond Eric, calved November, 1911; More, Cannon & Bell, Silver Creek, Neb. 350
Proud Persian, calved January, 1912; J. F. Bundy, Lyons, Neb.... 150
Lord Ivanhoe 9th, calved January, 1912; E. D. Gould, Kearney, Neb. 175
Lord Ivanhoe 10th, calved January, 1912, F. E. Cowden, Riverton, Iowa 205
Quaker Knight, calved January, 1912; Geo. Teasdale, Mt. Vernon, South Dakota 175
Flower King 13th, calved January, 1912; F. E. Cowden..... 135
Gay Windsor 5th, calved January, 1912; J. L. Baldwin, Osceola, Iowa 210
Gay Windsor 4th, calved December, 1911; Louis Schacht, Cook, Neb.. 190
Royal Heir 6th, calved December, 1911; J. H. Smithson..... 230
Blaze of Alpine, calved October, 1911; J. W. Hanna, Corning, Iowa 135
Baldwin Starlight, calved January, 1912; Frank Gross, Verdegree, Neb. 140
Emil of Alpine, calved January, 1912; J. H. Smithson..... 180
Kingdom Korn, calved November, 1911; John Blackwell, Fayette, Mo. 175
Earl of O., calved December, 1911; G. C. Ross, Imogene, Iowa..... 150
Glimmer, calved December, 1911; Theodore Evans, Persia, Iowa... 195
Jester of Alpine, calved January, 1912; F. E. Cowden..... 140
Proud Master 2d, calved October, 1911; J. H. Smithson..... 200
Farmer City Dobbin, calved August, 1911; K. W. Klopping.. 250
Tony Rugg, calved October, 1911; Frank Scoening, Mineola, Iowa.. 155
Queen's Eric Lad, calved October, 1909; H. & N. McCleave, Hopkins, Mo. 230
Pridewood, calved July, 1907; Dr. J. Bisgard, Harlan, Iowa..... 210
Heather's Lad M. 2d, calved October, 1911; J. H. Smithson..... 200
Prince Napoleon, calved April, 1912; O. S. Donohoe, Grant, Iowa..... 130
Winnie's Erica, calved April, 1912; G. D. Whittum, Staurt, Iowa.... 135
Minnie's Eric 2d, calved March, 1912; E. P. Rhodes, Shenadoah, Iowa 190
Lucy's Monarch 3d, calved February, 1912; J. H. Smithson..... 155
Lulu's Eric 2d, calved January, 1912; J. H. Smithson..... 230
Prince Enrigue, calved February, 1912; E. D. Giese, Neola, Iowa.. 100
Hamilton Beauty, calved February, 1911; E. D. Gould..... 170
Alcott, calved February, 1911; H. Sheehan, Carrollton, Mo. 245
Baliric, calved January, 1911; Wm. Tadgen, Humboldt, Neb. 230
Niger of Liberty, calved July, 1911; Chas. Fuller, Lewis, Iowa..... 210
Frank of Liberty, calved October, 1911; E. D. Gould..... 140
Pride of Washington, calved April, 1911; J. H. Smithson..... 210
Prince of Liberty 2d, calved April, 1911; Frank Bernard, Kenesaw, Neb. 135
Greeley King, calved March, 1912; G. W. Dalgetty, Nodaway, Iowa 165
Greeley Lad, calved April, 1912; Lewis Schacht 165
Greeley Bill, calved April, 1912; Herman Tagge, Cairo, Neb..... 105
Newton King, calved September, 1904; Orange Bros., Oakland, Minn. 210
Squire of Coon Creek, calved March, 1912; J. S. Athen, Hamburg, Iowa 160
Heather 2d of Coon Creek, calved May, 1912; F. W. Pittman, Shelby, Iowa 145
Coon Creek Ito 3d, calved April, 1912; Hal Hooker, Maryville, Mo. 105
Greeley King, calved June, 1911; A. McNulty, Paton, Iowa..... 170
Quiet Lad of Coon Creek, calved October, 1911; J. H. Smithson.... 175
Morone of Coon Creek, calved May, 1912; F. E. Cowden..... 100
Theodore of Coon Creek, calved May, 1912; E. D. Gould..... 100
Vallance of S., calved September, 1908; F. A. Schutz, Macksburg, Iowa 175
Vallmar, calved April, 1909; Fred Melcher, Humphrey, Neb..... 170
Vallmar 2d, calved April, 1910; E. D. Gould 140
Beulon R., calved January, 1910; J. B. Walker, Tekamah, Neb..... 100
Vallance R., calved, 1908; F. E. Cowden 140

The Chicago Sale of Angus Bulls.

The sale of bulls at Chicago, May 1st, under the management of the American Aberdeen Angus Breeders' Association proved a very successful affair, and while prices did not rule as high as at Omaha two days previous, yet the fact that in the Chicago sale were a number of bulls too young to sell to good advantage was the reason for the average falling below the Omaha sale. As it was, sixty-seven bulls were sold at an average of $131, satisfactory figures to all concerned. At Omaha and Chicago together 130 bulls were sold for the excellent average of $155, denoting the stability of the cattle trade and the strong demand for Angus bulls. The Angus fraternity should feel much encouraged at the outcome of these sales. Coming at a time when the farmers are busy in the fields, the good attendance at both sales demonstrates very fully the demand that exists for bulls of this great beef breed, especially when one realizes that the majority of the bulls were not sold to breeders, but went to farmers for steer raising purposes. Secretary Charles Gray worked very hard to make these sales a success, and much credit is due to him for untiring efforts which were so largely responsible for the satisfactory outcome of the sales. The top of the Chicago sale was $400, paid by J. P. Cox, Boone, Iowa, for the yearling Trojan Erica, Earl of Botna, consigned by John S. Goodwin, Naperville, Ill. Blackcap King 5th, also consigned by Mr. Goodwin, went to L. W. Faeth, Fort Madison, Iowa, at $225, and the same price was paid by N. E. Franklin, Lexington, Ill., for the Blackbird bull BlackBotna, consigned by M. A. Judy, West Lebanon, Ind. The Blackbird bull Broadus Burnham 3d, consigned by Edwin A. Schwarm, Loogootee, Ill., was secured by C. W. Davis, Cedar Rapids, Iowa, at $280, and Frank Sherworth, Canton, Ill., paid $250 for the Trojan Erica Eric Manse, consigned by W. D. Merritt, Olin, Iowa. The association sales of last year and the ones the year before have clearly demonstrated that the plan is an excellent one for securing an outlet for the surplus bulls. The one thing that some breeders have yet to learn is that bulls must have the age and condition to sell satisfactorily. There was, however, a great improvement in the cattle consigned this year over those that were sent forward to the sales last year. The association sale method is fair alike to seller and buyer, giving the seller an outlet for his bulls at the minimum expense and offering buyers an opportunity to select from a larger number of bulls than they could otherwise find. Col. Silas Igo sold the cattle in his usual satisfactory manner, and the following is a list of all sales amounting to $100 or over:

Blackbird E. of Woodcote, calved 1912; Fred Yates, Watseka, Ill. .$145
Egerton of Woodcote 5th, calved 1911; Sidney A. Smith, Union City, Mich. 185
Erin of Woodcote, calved 1912; Wm. Quesfield, Canton, Ill..... 110
Blackcap King 5th, calved 1911; L. W. Faeth, Fort Madison, Iowa.. 225
Black Mart, calved 1912; Joseph Martin, Colfax, Ill..... 115
Earl of Botna, calved 1909; J. P. Cox, Boone, Iowa..... 400
Edor, calved 1912; Denby Bros., Carlinville, Ill. 175
Judgment, calved 1911; Henry Conlin, Arthur, Ill..... 200
Blackbird's Dan, calved 1912; Ingraham & Smith, Mt. Vernon, Iowa 140
Black Botna, calved 1911; M. E. Franklin, Lexington, Ill..... 225
Blackbird Manse, calved 1910; N. G. Cone, Memphis, Mo..... 230
Eric Manse, calved 1912; Frank Sherworth, Canton, Ill..... 250
Baronet of Valley Park, calved 1911; James E. Stewart, Chicago. 200
Valley Park Erine, calved 1911; L. A. McCrackeer, Bonaparte, Iowa 175
Broadus Burnham, calved 1911; C. W. Davis, Cedar Rapids, Iowa.. 280
Black Beau of Greenwood, calved 1911; C. D. Rice, Discoe, Ill..... 160
Ebony of Greenwood, calved 1912; R. A. Austin, Lancaster, Wis..... 220
Pete of Greenwood, calved 1911; J. & W. D. Mobley, Mt. Sterling, Ill. 205
Lewis of Greenwood, calved 1912; L. E. Fey, Rushville, Ill..... 230
Bibo of Macdale, calved 1909; August Laukhuf, Tremont, Ill.. 185
Blackbird Lad S., calved 1911; Quinn Bros., Henry, Ill..... 200
Sultan's Eric, calved 1912; C. E. Fisher, Ottawa, Ill..... 190
Sultan's Pride, calved 1912; T. W. Douglas, Frankfort, Ind..... 210
Sultan's Pride 4th, calved 1912; Thos. Main, Coggan, Iowa..... 120
Sultan's Pride 2d, calved 1912; Chas. Bosserman, Laporte, Ind..... 125

(Continued on page 17.)

LANDS AND HOMES

IOWA FARMS We have the best list of big bargains in Iowa farms on the market. Write for particulars. Scott & Brady, Independence, Iowa.

MINNESOTA! Beautiful Benton County Park Region lands, improved and unimproved, at money-saving prices and on easy terms. Lists free. **W. C. MURPHY, FOLEY, MINNESOTA**

Iowa Lands For Sale In Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

WE HAVE all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

160 A. LEVEL LAND half cultivated, near Iowa line. Near town. Ten years' time. Thos. Brady, Worthing, South Dakota.

FOR SALE By the owner, 160 acres well improved. For particulars address Green Lawn Stock Farm, Milnor, No. Dakota.

LANDS AND HOMES

Families

MANY of them have located in new sections of the country and are making money. Here is the opportunity for you to locate. We have information regarding thousands of acres of nonirrigated land, irrigated land, timber land, fruit land, etc., along the Union Pacific System Lines. Information free for the asking. Write today to

R. A. SMITH,
Colonization and Industrial Agent, Union Pacific Railroad Co., Room 118, Union Pacific Building,
OMAHA, NEB.

Timothy and Clover Lands

IN southern central Wisconsin, new 20,000-acre county drainage district, all within four miles of the station; open meadow land; no stumps; to be divided into 80 acre dairy and truck farms. Six hours from Chicago, five hours from Minneapolis and St. Paul. Ten years' time given to the actual settler. Write The Peddle Land Company, Incorporated Owners, Cedar Rapids, Iowa.

LANDOLOGY FREE A magazine giving the FACTS in regard to the land situation. 3 months trial subscription. If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it "Personal" and say "Mail Landology and all particulars free." *Address:* **LLOYD M. SKINNER, Gen. Mgr. Skidmore Land Co., 123 Hall Ave., Marinette, Wis.**

FARM FOR SALE 400 ACRES of first-class land, all tillable, 300 acres in crop, the rest hay and pasture. Good buildings, good well, fine grove, one mile from station, four miles from Lansford. One of the best farms in this part of the state; no trade. If interested write owner, J. S. Johnson, R. 5, Lansford, N. D.

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CENTRAL MISSOURI FARMS Write for descriptive price list of improved farms that will prove profitable and satisfactory as homes and investments. HAMILTON & CRENSHAW, Box 3, Fulton, Mo.

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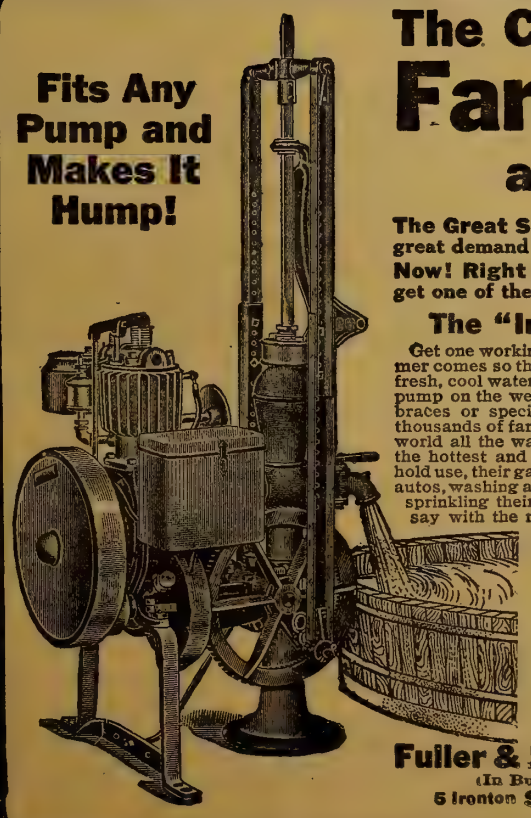

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It pumps constantly, day in and day out, for years to come, if you want it to. It is so simple and uses so little fuel that the cost is next to nothing. If you have a windmill you can attach it easily to the pump and use either the windmill or the pumper, but the pumper is always there ready to do the pumping at a moment's notice if for lack of wind, or any other reason, the mill doesn't work.

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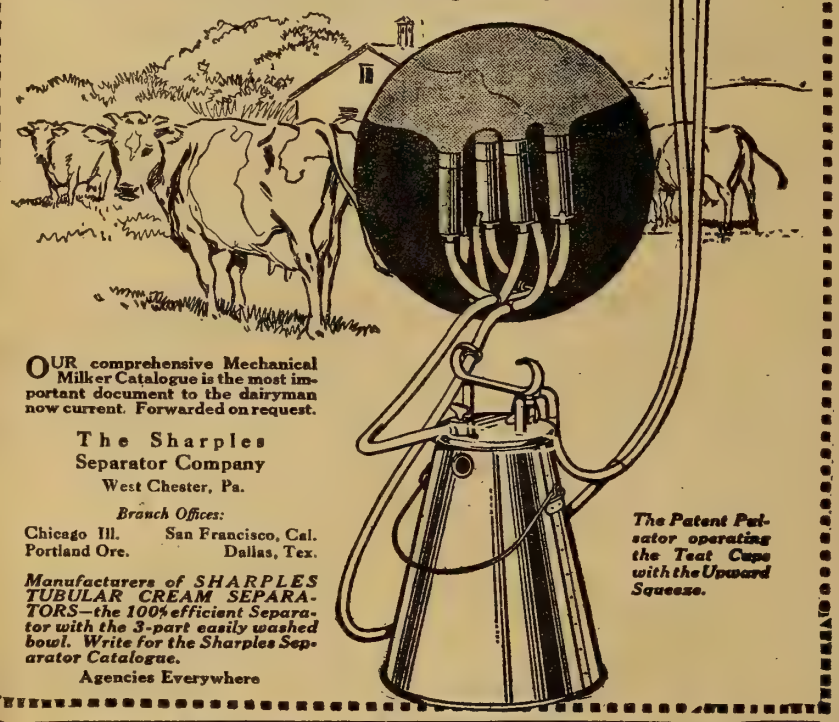
Practically every dairyman can visit installations of SHARPLES MILKERS within easy distance, where the actual operation of this equipment can be observed under conditions approximating his own. We shall be pleased to hear from dairymen with a view to their making such inspections.



OUR comprehensive Mechanical Milker Catalogue is the most important document to the dairyman now current. Forwarded on request.

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Appleton-Goodhue Windmills will pump your water economically, work whenever the wind blows and keep at it for years. For a nominal sum we will *Insure for 5 years* against cyclones, tornadoes, anything but neglect.

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

POINTERS ON RAISING THE DAIRY CALF.

In the proper raising of calves it is very much better for the mother and for the youngster that the two shall be separated very shortly after birth. In handling our herd, it is customary to leave the new-born calf with the mother for about twenty-four hours. The new milk of the mother is a very important factor in the beginning of the life of the small calf, and consequently men who are having decided success with dairy cows, as a rule, leave the calf with the mother as stated above. At the end of the first day, the calf should be removed to a clean, bright pen where, if possible, it is out of sight and hearing of the mother. By this method the calf is soon forgotten, and the next problem that arises is the raising of the calf by hand.

One of the serious difficulties that men encounter in raising the calf is teaching it to drink. Apparently each new-born calf is born with an instinct to butt, and we have all seen the feeder, after a struggle with the calf, come from the pen with the milk spilled and his person pretty much bespattered. We have found it a simple matter to back the calf into a corner, then by placing the left hand over the bridge of the nose and forcing the fingers and thumb into the calf's mouth to force it open. By scooping up a little milk with the other free hand it may easily be poured into the calf's mouth. It will only be necessary to do this three or four times until the calf begins to swallow and drink very nicely.

A point of great importance in raising the calf is to feed it regularly. We have known men who, in raising the calves, will feed them at a certain time in the morning, and then at any time it may be convenient in the evening. There should be a definite time as nearly as possible for the feeding of the calf. On most farms the usual practice is to feed in the morning and at night, and those two feeding periods should be as regular as possible.

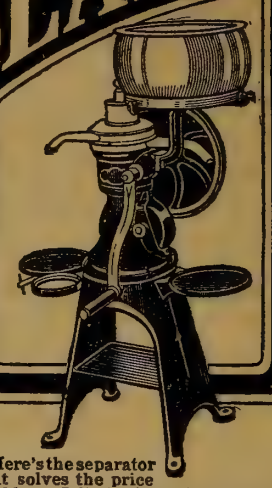
Our plan is to feed the young calf with whole milk for from four to six weeks. This will depend somewhat upon the growth of the calf and also upon its general codition, but when the time comes to change to skim milk, we are very careful not to do this abruptly. In fact, our plan is to take one week to change from whole milk to skim. One should begin by placing a very small quantity of skim milk with the whole milk, and gradually increase this until the calf is receiving the whole mess of skim milk. This is the critical time during the life of a calf, and it is very frequently at this time disorders may arise that may cause serious trouble. However, if the feeding is carried out carefully, and if the skim milk is also warmed to body heat for feeding, there need be no fear with regard to troubles that may arise.

In the winter the calf should be kept in a warm, clean pen, and if possible, should be also fastened at the time of feeding, so that a little ground oats may be fed immediately after milk. Thus the calf's mouth is dried up and there is no tendency to that objectionable feature of one calf sucking the other's ears, etc. In winter, care should be taken to keep the calves from any drafts and as far as possible they should be kept warm and sheltered during the time of any storm.

During the summer a greater latitude may be given to the calf, and if convenient it is a good plan to let it have the run of a small pasture where it may receive its milk conveniently, and also where it may roam at will. In all cases, shelter should be provided both from the sun and from any rain storms that may come. If there are clumps of willow or brush of any kind, it also adds to the comfort of the calf, particularly if flies are very bad.

It is a splendid idea in the raising of stock upon the farm to handle the calves frequently. It may seem foolish for one to spend considerable time in the petting and handling of calves,

BEATRICE CREAM SEPARATORS



Here's the separator that solves the price problem. Sells for $25 to $40 less than other standard machines. The connecting link between separator efficiency and reasonable price.

Another point: Our patented device cleans the machine *in less than 2 minutes.* Will save you time—will save you money—will save you cream. Skims close and clean. Easy to run—hard to wear out. Second to none.

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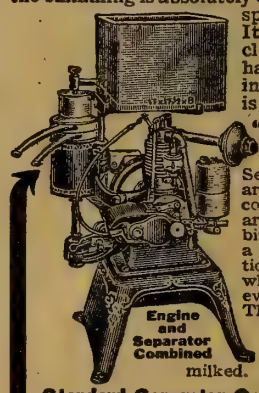
"The 1913 ... " Cream
Automatic Separator

It skims faster than ten men can milk. And the skimming is absolutely even, because the speed is uniform. It therefore skims closer than any hand power machine. No butter fat is lost.



Engine and Separator Combined

"AUTOMATIC" Cream Separators

Self-powered. Separator and engine a compact unit. They are so solidly combined that there isn't a chance for vibration of the bowl which spins at high, even speed for hours. The "AUTOMATIC" is almost a necessity where eight cows or more are milked. Write for cat. 7.

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Calves Without Milk

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The perfect milk substitute—the best since 1800.

Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.

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Kalamazoo SILOS

"make good" because they're made good. And they've been getting better every year for 15 years. If you want to be treated right, order a Kalamazoo now. We prepay freight. Get our catalog; it tells the whole story. Address Dept. 36.

KALAMAZOO TANK & SILO CO.
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but right here is where many stock men make a serious mistake. They let the calves run almost wild until they are fully grown, and then comes the very great difficulty of controlling the animals sufficiently to get them into the barns or in "breaking them" later on at the time of freshening. All calves should be handled frequently, and while doing this the farmer should realize thoroughly that the future cow is in the process of making, because her temperament later on will very materially depend upon the fondling and handling that the animal has received as a calf and yearling. Besides, there is the intense satisfaction of having a very much quieter cow and an animal that will be very much gentler as a mother and milker.

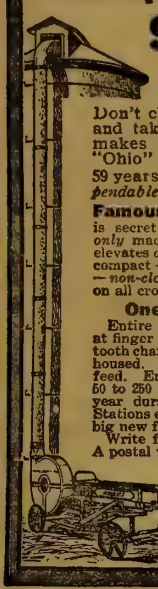
We have already mentioned that a very critical time in the calf's life is when the young animal is being changed from the whole to skim milk. There is frequently a trouble that arises at this time known to dairymen as scours. This is a malady that is very serious to young calves, and is one that needs to be avoided if possible. As a corrective, we have found that lime water placed in the skim milk is very effective. If a small quantity of lime is taken and slacked with water and allowed to stand until the clear water forms on top, this clear water may be skimmed off, and a teaspoonful of this placed in the skim milk has a very desirable effect. Of course, there is another thing that needs to be watched very carefully, particularly where a number of calves are kept together in a pen, and that is the appearance of lice. There is nothing that will hinder the growth and development of a calf so much as the presence of lice in large numbers upon the body. There is one simple remedy that will prove very effective. By taking a small bar of soap and dissolving some in a pail of water, and then by placing this in about a pint of kerosene, an emulsion may be made that, when rubbed well into the calf's hide, will act very promptly in the destruction of lice. There are other remedies that may be applied, such as Zenoleum and Creso, which are very good.—[Prof. W. J. Elliott in Canadian Farm.

HOW I INCREASED MY DAIRY PROFITS BY FEEDING.

We dairymen realized years ago that there were good cows born and good cows made, and, as I am a practical man, I believe that there are more poor cows made out of good cows born, by insufficient feeding than in any other way. In other words, I believe that many dairymen have cows today that they have unnecessarily condemned because the fault was with them, in not judiciously feeding and caring for those cows. The majority of us are in the dairy business for the dollars and cents that are in it, and those of us who are in it for that reason recognize two distinct propositions that we must ever hold before us if we are successful in our business. One is to feed them so that they will produce well, and the other is to feed them so that their production shall not be too expensive. Incidentally other things contribute to these, whether the feed which we give them is expensive to us or whether we by our own efforts produce it upon our farms at the least possible expense. But these are the two main propositions. Are we feeding our cows so as to produce the greatest number of pounds of milk or butter from them, and does that greatest number of pounds cost us as little as it is possible for them to cost us?

We have proven by experience that we must know the individual animal; that it is only by feeding for the individual cow, whether you have one cow or twenty-five cows, that you can gain the most success. With cows of the same size, standing side by side, as near alike as outward conditions could possibly make them, we may vary the feeding and obtain the best results. And the only way to know what these results are is to go right back to the teachings that have been presented. We must use the same business principles with the cow that every other business man uses in his business—know what we feed her, what it costs and what she produces. By using these business principles we are enabled from day to day to obtain the best results. This means much. It means that the average dairyman, when he changes in his barn, from one kind of hay to another, must change the grain or whatever else he is feeding that cow, to make her produce the most at the least expense; that we must not change too hastily from one to the other. When we change from silage to dry feed we must be a little careful, and when we change to silage we must be a little careful, to keep that cow in the best condition. We must use common sense and never subject her to any sudden change that will throw her system out of balance, for it is too delicately adjusted to conform to sudden changes. It is astonishing to note what a difference even a thunder shower coming up in the afternoon will make in the amount of milk

"Ohio" 1913 Model
The Improved Logical
Silo Filler



"Ohio" improvements for 1913 are radical—eclipse all previous efforts.

Don't close a deal for *any* Cutter and take chances with unknown makes until you see what the "Ohio" offers.

59 years' experience—*absolutely dependable quality.*

Famous Patented Direct Drive is secret of "Ohio" superiority—the *only* machine that is driven, cuts and elevates *direct* from main shaft. Simple, compact—low-speed fan—*non-explosive*—*non-clogging* on any cut. Cuts *clean* on all crops—knives can't spring.

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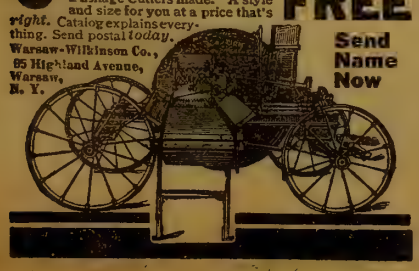
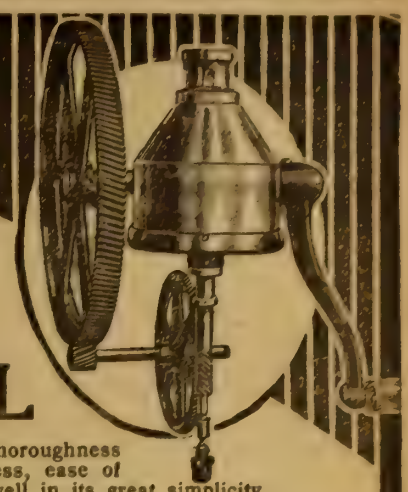


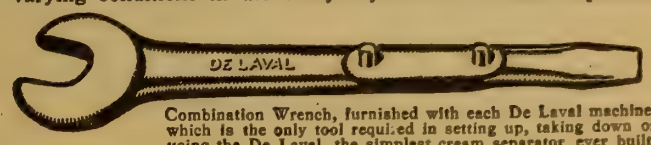
The Simplest CREAM SEPARATOR Ever Built — DE LAVAL



EXCELS ALL OTHERS not only in thoroughness of separation, sanitary cleanliness, ease of running and durability, but as well in its great simplicity.

THERE IS NOTHING ABOUT THE OPERATION, CLEANING, adjustment or repair of a modern De Laval Cream Separator which requires expert knowledge or special tools.

NOR ARE THERE ANY PARTS WHICH REQUIRE FREQUENT adjustment in order to maintain good running or to conform to varying conditions in the every-day use of a cream separator.



Combination Wrench, furnished with each De Laval machine, which is the only tool required in setting up, taking down or using the De Laval, the simplest cream separator ever built.

THERE IS NOTHING ABOUT THE MACHINE THAT CANNOT be taken apart, removed or replaced by any one who can use a wrench or screw driver. In fact, the only tool which is needed in the use or the operation of a De Laval Cream Separator is the combination wrench and screw driver illustrated above, which is furnished free with every machine. Visit the local De Laval agent and see for yourself its simplicity of construction.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

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have patented swinging doors

These are far the best silo doors ever devised.

Quick detachable with special iron cross-bar or hoop connection. The steel bars on the door provide a solid ladder from which hoops can be tightened—the result of a new invention. They close absolutely air-tight. Cannot stick or bind—never have to be lifted. They swing in or out readily on their hinges.

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Pure-bred Registered
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There are some cattle that give more milk when they are fresh than a Jersey, but there isn't any breed that gives as rich milk as

The Jersey

at as small feeding cost, nor is there any breed of cattle that will *keep it up* like Jerseys will, *year in and year out.* That's why you ought to buy Jerseys to increase your herd's efficiency. Send for Jersey facts.

AMERICAN JERSEY CATTLE CLUB
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REGISTERED JERSEY BULL CALF FOR SALE

SIRE—A fine grandson of the great Pogis 9th of Hood Farm. Dam—A granddaughter of Ch. Flying Fox. She is a rich milker and would easily qualify for R. of M. were she on test. Her dam has a record of about 500 pounds butter. A very fine calf, solid fawn, 2 months old. Pedigree on application. First check for $50 gets him. Address

Mt. Pleasant Jersey Farm, Mt. Pleasant, Ia.

WINELAND FARM JERSEYS

The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

Farmers-Investigate This Manure Proof Farm Shoe

Thousands of farmers now wearing this non-rotting shoe made of special leather by special process. The only shoe in the world guaranteed for barnyard service. Proof against manure and barnyard acids.

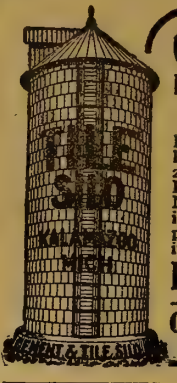
Guaranteed Not to Rot or Crack Through.

Every box of Huiskamp Barnyard shoes contains guarantee that they will not rot or crack through from manure and barnyard acids. Cut shoe expense. Save your feet.

BOTTLE OF ROT PROOF OIL FREE

Ask your dealer for Barnyard shoes. If he has none in stock write us for trial bottle non-rotting shoe preparation, giving dealer's name. It will benefit any shoe but is made especially for Barnyard shoes.

Huiskamp Bros. Co., 206 Johnson St., Keokuk, Ia.



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Home Town; a Silo hooped like a water tank. Kalamazoo Galvanized Door Frame, Clear Cedar Doors. Never require paint nor insurance; is fire and frost proof. Will be sold so that it earns its cost before the

Buyer Lets Go of His Money

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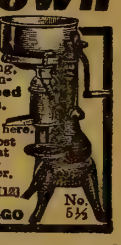
One Year to Pay!



$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half. [123]

ALBAUGH-DOVER CO.
2262 Marshall Blvd. CHICAGO

be sought is profit and, therefore, no unnecessary outlay need be made. It is best to have the house divided into separate pens, the least size of which should be thirty feet square for each calf. Double pens to hold two calves are objectionable for many reasons. It is important for the health of young stock that there should be plenty of light and fresh air in the pens provided for them and the partitions should be made of lathe so as to offer no impediment to perfect ventilation. The pens may be provided with feed and drinking troughs, or pails may be used. The latter are preferable, especially when the calves are young and are fed upon sweet milk, but it is always advisable to have the feeding utensils clean. Calves are very sensitive to the evil influences of food that has been allowed to ferment and sour, and though they may thrive upon sour milk, yet a high acidity is almost certain to produce bowel trouble and sickness. A small box in which a quantity of powdered chalk, or charcoal, to which has been added a bit of salt, which the calves may lick occasionally, would be a useful addition to the furniture of the pens. The front of the pens should be of open work similar to that of the sides. Calves that have been well sheltered and fed the previous winter will show the result of good treatment, and will be in good condition already when turned upon green pasture.

Johnson Co., Ill. J. T. McCoy.

The estimated production of cotton from the world's crop of 1912 is put at twenty million four hundred and two thousand bales of five hundred pounds each. To manufacture this quantity of goods required the operation of one hundred and forty million nine hundred and ninety-six thousand spindles. Last year's production of cotton in the United States was put at fourteen and one-half million bales. With the exception of a very small quantity this came from the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee and Texas. The latter leads with a production of just a little less than four million bales.

Ask your neighbor to subscribe for The Homestead.

CARE OF CALVES.

To the Editor of The Homestead:

Just now when the warmth of the spring sun adds to the distressed appearance of last year's calves that have been wintered in a cold shed, or in a partly sheltered yard, their poor condition is made relatively worse by the sleeker state of the cows, which have had all the good treatment that could be afforded them. The proper care of young stock is sometimes neglected, and this neglect is more frequent and conspicuous in the case of calves than any other stock kept upon the farm. These young animals are those by which the dairy is, by and by, to be replenished

It is a mistaken idea that exposure to cold hardens the constitution of a young animal and by half starving a calf the good milking qualities of the future cow are materially lessened. The production of milk is a heavy drain upon the system of the cow, and a sound constitution, perfect digestion and vigorous health are needed to sustain it. Exposure and spare feeding of the heifer calves through the winter months do not tend toward these conditions. It will pay to treat a common calf well, as it will pay to treat a pure-blooded calf of any of the choice breeds well, and it is very important that the former secure equally as good care as the more costly and fortunate animals.

Few farms have a well-appointed calf house, but we are sure that nothing upon the farm pays a better profit on its cost than such a house. A good, comfortable house to accommodate twenty calves may be put up for one hundred dollars and upwards, according to its style or finish. The cheapest, if it is only substantial, is as useful as the most costly. The object to which the cow will give at night. It astonished us many times to find when a cold, windy day would come that many of our cows had fallen off one or two pounds on account of the sudden change in temperature. We dairymen who have been through a winter when the cows had to drink under different conditions from what they are accustomed to, know how it curtails our business. Four years ago I was obliged to drive my cows half a mile, through December, to give them water. They had never stepped on the snow before, and it made a difference of over $60 in the product of those cows for thirty days. These things show conclusively that only by individual attention, only by thorough knowledge of their wants and supplying those wants in the minutest detail, are we able to obtain the best results. Therefore the feeding is something that requires attention each day, and twice or three times a day, as our rule may be. It goes without saying that there is no part of our work which is of such vital importance as the feeding proposition. To my mind it has reduced itself to this: Raise everything that you can on your own farm for the cows, store it in the most palatable condition possible, and when you are feeding what you raised on your own farm purchase only that which is necessary to furnish the cow with the amount of protein she shows that she requires by the scales on which the milk is weighed.—[W. G. Hunston, in Fayette County, Iowa, Bulletin.

The above is a picture of the 1,027-pound Poland China boar, Chief Price Again II, now at the head of the Wigstone Bros.' herd, Stanton, Iowa. He was third-prize boar at the Iowa State Fair. See field notes.

NEWS OF THE SALE RING.

(Continued from page 13.)

Del Heather, calved 1912; R. E. Biggert, Kouts, Ind. 110
Casper M., calved 1911; W. A. Elkins, Pleasant Grove, Ill. 115
Dick C., calved 1911; G. W. Armstrong, Virginia, Ill. 155
Sancho C., calved 1911; J. W. Guthrie, Manchester, Ohio 180
Pleasant Lawn Admiral, calved 1910; J. W. Farron, Vermont, Ill. 105
Pleasant Lawn Jesse, calved 1911; F. J. & R. C. Mullins, Burrows, Ind. 155
Royal Ennis, calved 1911; J. C. Hurd, Edgerton, Wis. 170
Liberty Grange Pete, calved 1911; M. A. Boor, Terre Haute, Ind. 180
Queen of Meadows Brook, calved 1907; Matt Connell, Monona, Iowa 150
Talbott of Xenia, calved 1911; Henry Hulbert, Charlotte, Iowa.. 215
Cedar Dell Lyng, calved 1912; L. F. Jones, Thebes, Ill. 180

The Kansas City Hereford Sale.

The sale of Hereford cattle held at Kansas City, Mo., on May 6th, was well attended, but the lack of support from range buyers was apparent from the start and it was not possible to sell the entire number of cattle listed in one afternoon. As a result the sale was continued until the afternoon of the 7th, but most of the buyers the day before had bought what they wanted and gone and the second day's selling was low. As is shown by the sale list buyers were for the most part corn-belt farmers who wanted good, useful bulls for steer raising, and on the better lots bidding was good. The thin and poorly conditioned sort were not wanted. Females out sold the bulls by about $40 per head which is a favorable sign of good times in the cattle business. The top of the sale was $500, at which price E. W. Wood, Clements, Kan., took the five-year-old cow, Miss You, consigned by the Kansas Agricultural College. The following breeders were contributors to the sale which was managed by R. T. Thornton, Kansas City, Mo.: Gudgell & Simpson, Independence, Mo.; Z. T Kinsell, Mt. Ayr, Iowa; E. E. Wall & Son, Leeton, Mo.; Samuel Drybread, Elk City, Kan.; John Schmitt, Tipton, Kan.; O. S. Gibbons & Son, Atlantic, Iowa; Mousel Bros., Cambridge, Neb.; Kansas Agricultural College, Manhattan, Kan.; J. I. McGinnis, Moulton, Iowa; E. D. Gorman, Lineville, Iowa; R. M. Fields & Son, Lees Summit, Mo.; E. W. Elliott, Montezuma, Iowa, and Ed Walton, Bowen, Ill. Cols. Reppert, Zaun and Drybread were the auctioneers. The sale is as follows:

BULLS.

Mark Twain, calved July, 1911; W. A. De Masters, Holden, Mo. $145
Wall Onward, calved April, 1909; J. J. Horning, Ottawa, Ill. 325
George, calved September, 1911; John M. Herndon, Centralia, Mo.. 250
Southern Stamp, calved July, 1911; E. E. Driscol, Windsor, Mo. 120
Wall 17th, calved March, 1911; A. J. Schwandt, Wamego, Kan. 250
Eli Perkins, calved August, 1911; M. B. Sullivan, Spaulding, Neb. 340
Rodman, calved September, 1911; J. D. Hayes, Manhattan, Kan. 190
King Royal, calved November, 1911; N. Eddy, Northwood, N. D. 205
Peerless, calved June, 1911; E. E. Wiggins, Eutopia, Kan. 180
Ira, calved September, 1911; Geo. Annon, Clarinda, Iowa. 280
Sir Edwin, calved February, 1912; Joe Hanson, Topeka, Kan. 160
Tom, calved March 1911; Charles L. Scott, Jamesport, Mo. 135
Bob, calved June, 1911; Geo. R. Hitt, Koshkonong, Mo. 145
Curly Boy, calved February, 1912; Fred Schiever, Salina, Kan. 155
Charming Lad, calved August, 1911; Robt. Muir, Salina, Kan. 160
Roger 8th, calved January, 1912; Geo. Harrah, South Omaha, Neb. 125
Don Prime, calved July, 1912; J. F. Gulick, Jasper, Mo. 125
Conformer, calved March, 1911; Geo. R. Hitt 170
Rowdy Boy, calved March, 1911; Homer Marshall, Eldorado, Kan.. 130
Harris Prince 160th, calved July, 1909; J. F. Gulick. 140
Multus, calved April, 1911; W. T. Fishback, Kohoka, Mo. 305
Defender, calved May, 1912; J. W. Maupin, De Kalb, Mo. 240
Brummel, calved January, 1912; Geo. A. Washington, Nashville, Tenn. 250
Diamond, calved March, 1911; Chas. Dubbs, Ransom, Kan. 165
Monster, calved June, 1911; C. M. Hopper, Sumner, Mo. 115
Marshall, calved March, 1911; J. Z. Hartzler, East Linn, Mo. 155
Curly 26th, calved May, 1911; F. B. Aitchen, Wetmore, Kan. 155
Morges, calved January, 1912; Dan B. Field, Liberty, Mo. 220
King Francis 6th, calved May, 1911; E. E. More, Gentry, Mo. 300
King Francis 9th, calved June, 1911; M. H. Loughead, Unionville, Mo. 235
Christopher, calved November, 1911; H. E. Swcet, Kansas City, Mo. 145
Gay, calved December, 1911; C. H. Higinbotham, Rossville, Kan. 140
Beau Pleasant, calved March, 1912; H. M. Forbes, Arkalon, Kan. 100
Bonny Boy, calved April, 1911; H. N. Forbes 160
Polled Jim, calved February, 1912; C. M. Ross, Ross, Iowa. 230
Polled T. R., calved April, 1912; Bruce Clark, Altavista, Kan. 105
Polled Ike, calved March, 1912; W. H. Prentice, Lewistown, Mo. 175
Leo Wilton, calved April, 1911; C. O. Gun, Thomasville, Mo. 165
Kirk, calved October, 1910; Henry Remington, Holbrook, Neb. 165
Donald, calved May, 1911; Henry Remington 145
June Boy, calved June, 1910; R. P. Clark 160
Precepter, calved December, 1909; W. H. Gilliand, Yankton, S. D. 305
Beau Hardy, calved October, 1911; E. L. Capps, Liberty, Mo. 205
Beau All, calved April, 1904; M. T. Wright, Mt. Pleasant, Iowa. 150
Duke, calved May, 1910; H. M. Forbes 120
Cardinal, calved September, 1911; L. H. Kurtz, Aledo, Ill. 165
Beau Excellence, calved May, 1912; John Gosling, Kansas City, Mo.. 140
Lord Roger 2d, calved May, 1912; R. W. Steward, Rago, Kan. 135
Teddy R., calved March, 1912; B. H. Groves, Dodge City, Kan. 135
Dick, calved March, 1912; S. H. Nay, Eureka Springs, Ark. 105
Roger R., calved January, 1912; Geo. Simmons, Clearmore, Okla.. 135
Dock Jr., calved April, 1911; B. F. Doty 135
Beau Wilton, calved March, 1912; Wm. Acker, Vermillion, Kan. 190
Drum Donald, calved August, 1911; John Gosling 150
Herold D., calved May, 1911; Mousel Bros., Cambridge, Neb. 125
Mystic Lad, calved December, 1911; Perry Jones, Warrensburg, Mo.. 145
Wall Onward 11th, calved October, 1911; John Gosling 115
Wall Onward 8th, calved November, 1911; Pierce Bros., Billings, Mo.. 130

FEMALES.

Capitola B. 5th, calved March, 1911; J. W. Shrader, Bird City, Kan. 250
Correline 16th, calved March, 1911; G. M. Ross, Ross, Kan. 175
Marietta 37th, calved March, 1911; E. W. Wood, Clements, Kan. 300
Dorrine 30th, calved September, 1910; R. P. Clark, Brayton, Iowa 205
Gingerbread 8th, calved June, 1910; Geo. A. Washington. 230
Flossie 8th, calved December, 1910; R. P. Clark. 295
Bright Duchess 63d, calved April, 1910, Geo. A. Washington. 235
Gelatine 9th, calved June, 1910; R. P. Clark 220
Mattie Columbus, calved January, 1904; G. A. Newell, Milan, Kan.. 150
Donna, calved November, 1911; O. S. Gibbons, Atlantic, Iowa. 130
Viola Dale, calved October, 1911; O. S. Gibbons. 140
Lenora Dale, calved April, 1911; W. H. Bourne, Delphos, Kan. 140
Elena, calved August, 1910; R. P. Clark 175
Beauty, calved December, 1909; W. J. Burns, Delphos, Kan. 240
Tansey, calved October, 1911; J. W. Shrader, Bird City, Kan. 160
Dianna, calved November, 1910; W. J. Burns 170
Vera, calved August, 1910; E. W. Wood 160
Lady Brown, and c. c., calved December, 1906; E. W. Wood. 400
Lady Berrington, and c. c., calved February, 1904; W. T. Fishback.. 315
Grape Shot 4th, calved September, 1910; Mousel Bros. 175
Miss You and b. c., calved April, 1908; E. W. Wood. 500
Maomi, calved November, 1910; J. W. Shrader 275
Mayflower 2d, calved September, 1908; R. R. Clark. 135
Miss Catarine 13th, calved March, 1910; G. L. Zwick, Pyramid, Colo. 320
Mabelle 31st, calved October, 1910; Geo. A. Washington. 305
Dorana 22d, calved January, 1911; M. H. White, Olivebranch, Miss.. 265
Dona Agnes 9th, calved February, 1910; G. L. Zwick. 285
Brilliantine 11th, calved November, 1910; Marion Armantrout, Botna, Iowa 295
Quivera 5th, calved February, 1911; R. P. Clark. 250
Grebe 8th, calved March, 1911; Geo. A. Washington. 175

SUMMARY.

61 bulls ....$10,455; average....$171.40
31 females . 7,160; average.... 230.97
92 head ..... 17,615; average.... 191.46

IOWA BOYS ON THEIR METTLE.

The opportunity to compete in a prize essay contest with the prize a free trip to the Iowa State Fair is being taken advantage of by many ambitious farm boys all over the state. The success of the boys' camp last year has served to stimulate interest and confidence this year, not only among the boys but with the teachers and parents as well.

The contest is limited to Iowa farm boys between the ages of fifteen and nineteen years who are actually engaged in farm work. Those who won the free trip to the fair last year are not eligible to compete this year. In most of the counties the county superintendent of schools, the secretary of the county fair and the secretary of the farmers' institute make up the local committee with the county superintendent as chairman. Where these cannot serve others are appointed. The chairman is provided with circulars so that in every county the boys who wish to contest can obtain all of the information by securing one of these circulars from their county chairman who in most of the counties of the state is the county superintendent of schools. If unable to get in touch with the county chairman the information regarding the contest can be obtained by addressing A. R. Corey, secretary of the Iowa Department of Agriculture, Des Moines, Iowa.

The subject for the essay is "Farming in Iowa as an Occupation; Its Possibilities as Compared to Other Vocations." All applications must be in the hands of the chairman of the county committee in the county in which the applicant resides on or before June 10th. The essays should not be less than 500 or more than 700 words and should be in the hands of the local committee not later than June 30th.

Letters received in the office of the Department of Agriculture last year told of some of the boys thinking their essays out as they were plowing in the fields during the day and writing their compositions in the evening after the days' work was done. Scores of splendid essays were written, the judges often finding it hard to choose between them.

The camp will be under the direction of Fred Hansen, of the state Y. M. C. A., again this year. He has had much experience in conducting boys' camps. He will be assisted by competent adult leaders from the Y. M. C. A. The plans somewhat similar to that of a military camp. Last year a regular schedule was followed out each day. This not only made it possible to maintain the best of discipline and organization, but also conserved the boys' time and energy, so that they were able to get the most out of it. Short assemblies were held each morning just after breakfast and brief addresses were given either on agriculture or character making, integrity, etc. Groups from the camp went out daily under the supervision of men from the Ames Extension Department to inspect the exhibits. Much the same plan will be followed this year.

Mr. Hansen is a great believer in the fellowship, good time and friendship which a camp like this can promote. On this phase of the state fair camp he says:

The fellowship, good time and friendship which camp life like this can promote is not an unimportant part of such a venture. We tried through a daily camp newspaper, through games and through emphasis upon getting acquainted with each other to make these features a part of the camp. I think that, judging by what the boys said when they went home and from many letters which I have received since, they not only learned a lot of things, but that the friendship and fellowship and the good time which they had will forever be a part of their lives.

Boys who wish to enter the contest should write to their county superintendent for circulars explaining the contest and for entry blanks or to A. R. Corey, Iowa Department of Agriculture.

E. W. Howe, of Atchison, Kansas, who is globe trotting again, writes from Melbourne: "In the wash room of the sleeping car, early this morning, I met an American, a Boston man, who has been a gentleman farmer in Australia for twelve years. He told me he owned fifty-two thousand acres of land, and that, whereas he came here with nothing twelve years ago, he would not take $1,500,000 for what he owns now. He originally visited the country on business, thought he detected great possibilities, and came here to live. He didn't know corn from barley when he began, but applied business rules to farming, and has succeeded. I expressed surprise as to his large holding, whereupon he told me that in the interior there are sheep farms five hundred miles square, or as big as the state of Kansas. This land is leased from the government at a penny an acre. Artesian wells three thousand feet deep are being bored, and these wells are greatly benefiting the arid districts."

Give the boy an acre of good ground this season, and let him "spread" himself trying to produce a big crop of corn. Let him have all he can raise on that acre, and even if he doesn't take some prizes in the boys' corn-growing contests or at some fair or farmers' institute, his heavy yield will encourage him in the production of corn, thus linking him closer to the farm.

The World's Greatest Power Washer

Direct from Our Factory to You. No jobbers' or dealers' profit to pay. It will cost you only a little more than half of what inferior machines cost. The NEWTON POWER WASHER, with reversible five-year guaranteed wringer complete, shortens the hours of wash days to minutes. Dirtiest clothes washed in six to fifteen minutes. Saves time, labor and money. Save $3.50 to $25 depending on the kind of machine you buy. The Newton Washer is made for either hand power, gasoline engine or electric motor. Get Our Free Circular Showing Styles. Try it in your home for thirty days, you to be sole judge. If the machine is not satisfactory, ship it back to us and we will pay the freight both ways and give your money back with six per cent interest. A postal from you will bring quick proof to you of our reliability and our free circular.

Newton Washing Machine Company
Newton, Iowa.

69¢ A GALLON FOR GALLOWAY READY MIXED BARN PAINT

Genuine Galloway Ready-Mixed Barn Paint for only 69c a gallon. House Paint only $1.10 a gallon, in all colors. Write me for complete information about this wonderful paint. If you're going to paint your barn, silo, granary, fences or home this year, get the paint that will cover best--the paint that will go farthest. Remember, Galloway Barn and House Paint is positively waterproof. A few coats of it will prolong the life of any wood. And besides, it's

Guaranteed Paint

My guarantee is iron-clad. Galloway paint will not peel, chalk or blister. The colors are sharp and bright. Your money refunded without question or quibble, if you are not satisfied. That's the way I do business--direct to you at manufacturer's prices and I guarantee to satisfy you.

MY OFFER Here's what I'll do: Get my color cards and complete instructions to determine how much paint you need and then I'll ship it to you. Try it--then if you're not satisfied that my paint works easier, spreads smoother, fills better and is the lowest in price-- just send it back and I'll refund your money and pay the charges both ways. That's a fair and square offer that I could'nt make unless I knew my paint would stand the test. Galloway Barn and House Paint is equal to any paint that would cost you $1.25 to $2 a gallon.

WRITE ME TODAY—RIGHT NOW!

Get posted on this great paint offer *at once*. Don't pay any high prices for inferior paints. Write me today, *now*, and I'll send you my color sheet which shows and explains colors and covering qualities, and gives full information about House Paint, Barn Paint, Floor Paint, Shingle Stain, Varnish, Enamel, etc., ALL FREE. No obligation whatever. Send a postal or letter right away and get these paint facts FREE. Address

WM. GALLOWAY, Pres., Wm. Galloway Co.
1½ Galloway Station (471) Waterloo, Iowa

Free To Boys

I Have a Glove, Mitt, Mask, Ball, Bat, Cap and Belt for Every Boy Who Will Write to Me.

There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 304 Popular Building, Des Moines, Iowa.

ENGRAVING Halftones made from photographs or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address HOMESTEAD COMPANY Engraving Dept. Des Moines, Iowa.

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EASY AND SAFE TO USE
INEXPENSIVE

KILLS LICE
ON ALL LIVE STOCK

DISINFECTS.
CLEANSES.
PURIFIES.

It has so many uses that it is a necessity on every farm.

CURES MANGE, SCAB, RINGWORM, SCRATCHES

Destroys All Disease Germs

DRIVES AWAY FLIES

Write for Free Booklets

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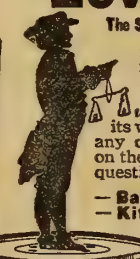
DEPARTMENT OF ANIMAL INDUSTRY
DETROIT, - - MICHIGAN

Cleans like Magic without Scouring

In addition to its value on the farm as a preventive of hog cholera—as a disinfectant—as a water softener and for making soap—

Lewis' Lye
The Standard for Half a Century



is a household necessity for cleaning purposes. It cleans anything and everything like magic, *without scouring* and does its work with less labor than any other so-called cleanser on the market. It is, without question, best for cleaning

— Bath Room Fixtures
— Kitchen Utensils
— Milk Pans or Churns
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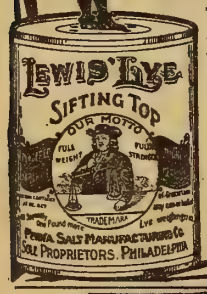
— Windows.



Lewis' Lye—the purity and full strength of which is guaranteed—is the only lye made and marketed by manufacturing chemists. Booklet describing the many uses of Lewis' Lye, mailed free on request.

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Manufacturing Chemists
PHILADELPHIA

CURE THA SPAVIN

—or that Curb, Splint, Ringbone or other blemish with Kendall's Spavin Cure. Mr. Martens of Shawano, Wis., writes this about

Kendall's Spavin Cure

"I have been using your Spavin Cure for years for Spavin and Ringbone, and would not be without it, because it never failed." Let us send you other letters. Get a bottle of Kendall's at once. You may need it any day. At your druggists $1 a bottle. 6 for $5. Ask for "Treatise on the Horse"—Free, or write to

Dr. B. J. Kendall Co.,
Enosburg Falls, Vermont, U. S. A.

Cure That Horse

Don't Ruin Its Disposition or risk crippling or killing it by use of unknown methods. The *certain cure* for Curbs Splints, Spavins, Cuts, Bunches, etc., is

QUINN'S Ointment

Used for over 30 years—the *old reliable, tested* cure. Druggists sell it, or sent anywhere for $1—money back if not satisfied. Free Booklet—"Protecting Your Investment in Horseflesh."

W. B. EDDY & CO., Dept. H ALBANY, N. Y.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending May 11, 1913:

The past week was cold, and over the southern and eastern counties unusually wet. Showers were general on Thursday and Friday, and in many localities on Monday. The average temperature was about 4 degrees below the normal, and light frost occured in many sections on two or three mornings, but no material damage was done to fruit, which is still in good condition. Where the rainfall was not too heavy rapid progress was made in preparing ground for corn, and considerable corn was planted especially in the northwestern counties. Corn planting will be general during the coming week. The rains were beneficial to small grain, grass and potatoes, and in the eastern counties, where the soil had been dry, it put the ground in good condition for plowing. Most of the live stock is now in pasture.

The following report by the secretary of the Iowa State Horticultural Society shows the average condition of fruit on May 1st: Apples, 93 per cent; pears, 90; American plums, 90; domestic plums, 75; Japanese plums, 80; cherries, 89; peaches, 79; red raspberries, 77; black raspberries, 88; blackberries, 89; currants, 94; gooseberries, 90; strawberries, 84 per cent of a full crop. The average for all crops is 85.5 per cent, the highest since 1901 when it was 4.5 per cent higher.

A SQUARE DEAL FOR THE WORK HORSE.

Are you anxiously waiting to get that colt onto the plow? Somehow there is a fascination about breaking a colt and we are all anxious to try them out. I wonder how many of us really know how to handle a colt. Our first few attempts at "breaking" colts make or ruin them. There should not be such a thing as "breaking" a colt. We should train him. When we once gain his confidence he is easily brought to understand what we want of him. They may be just a trifle awkward at first, so just be easy and have patience with them. These colts should have been worked lightly all winter to have them accustomed to the harness and ways of handling before putting them at heavy work.

Even though they are big, husky fellows they can't stand the heavy work that a mature horse can do. Do not make the mistake of ruining a fine horse by heavy work the first season, and above all things take care of his shoulders, for the marks of sore shoulders will stay with him for some time, and a little care will prevent it.

Always be sure to see that the traces are hooked evenly, that there will be no side draft. Always be sure that the horse obeys you, for if he does not heed the "whoa" and "back" he can never be relied upon. A great many runaways are prevented because the horse knows the meaning of "whoa" and "back."

If a horse of any kind has been compelled to rustle he will be in no fit condition for the heavy spring rush of work.

Another important feature not to be neglected is the fitting of the horse's collar. Take him to your harness man and have him fitted properly and use that collar for no other horse but the one it was fitted on. After the collar has been fitted, thoroughly soak the outside of it and it will adjust itself to the shape of the horse's neck. The collar of a working horse should be thoroughly cleaned each time it is removed from the horse. Never buy a cheap collar. It doesn't pay.

Some prefer to let their horses run out at night to grass while doing the spring work, but for my part I prefer feeding them dry feed. I find they can stand the work much better. It will do no harm to turn them out in a dry lot for the night with a little hay in a rack.

A work horse can have as much hay as he will eat at the evening feed, but so many make the mistake of feeding too much hay at the morning and noon feed.

My policy, and I think a very good one, is to feed one pound of grain to every 100 pounds of horse; thus if a horse weighs 1,200 pounds give him twelve pounds of grain and a trifle more of hay. A hay-stuffed horse cannot perform good work. Above all things give your faithful beast a good rest at noon. You had much better arise a little earlier in the day, than to cheat the horse from his noon rest. Do not rush him from one end of the field to the other then stopping for a half hour's rest occasionally. Let him have reasonable time with a little rest at the end of each round, and you will accomplish much more. It is not a good idea to allow the same horse to follow the furrow, change them around occasionally. If you are obliged to work old horses you will find they will keep up in flesh much better if you feed them ground grain, a mixture of ground oats and corn. Always water the horse before feeding and feed the same amount of grain at all times and you will have little or no trouble with colicky horses.

Nebraska L. Gardner.

Central Illinois farmers indorse the bill introduced in the Illinois legislature by Rep, W. B. Elliott, of the Knox county district, providing that quail be protected for five years. The Knox County Boys' Club petitioned Representative Elliott to introduce the bill. The farmers assert that the quail are invaluable to agriculture in their destruction of insect pests and that adoption of a law providing for a closed season of five years will give the birds an opportunity to increase and multiply. Many hunters will take exception to the proposition. The quail season is brief, and but a small proportion of the birds are killed each fall. It is believed that the protection of the quail, as proposed, will greatly curtail the demand for hunting licenses. It is further argued that the five-year protection for prairie chickens had small effect in relation to their increase. Sportsmen will argue that the prairie chicken case will likely have a parallel in the suggestion protection for quail.

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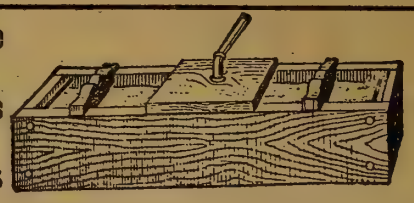

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The time is at hand when the farmer requires just as clean water for his hogs as for the horses or cattle, and that will be conservative of the water supply, and automatic with the needs of the stock. We have all these requirements in the "ONLY" Hog Waterer. Ask for our new book, "HOG SENSE." It's FREE. Address

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OUR SPECIAL BUGGY CATALOG is waiting for you. We guarantee to save you from $15.00 to $25.00 on a buggy, spring wagon and farm wagon. We are showing the very latest styles in high grade top buggies. Our full wrought second growth hickory vehicles are guaranteed to more than please you. Write us today asking for catalog No. 37. You should have this book to protect you against unreasonable prices.

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is only one kind of cleaning up needed at this time of year. Dr. Hess Dip and Disinfectant kills ticks, disinfects the skin and fleece, cures scab, mange and all parasitic skin diseases. Is just the thing to put in the hog wallow. Keeps its strength and hogs can free themselves of lice, at the same time heal and prevent skin diseases. Besides

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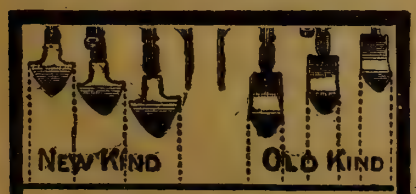

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CHAS. BURMEISTER, Sutherland, Iowa

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

THE STRAWBERRY FALSE WORM.

A subscriber sends the following communication:

Last spring a little green worm about a half inch long and perhaps a little thicker than a wire shingle nail got in our strawberry patch and ate the leaves. We had them by the thousand and I want to know what and when to spray to keep them away this year.

This pest is very destructive when once it gets a foothold and it follows that old berry beds suffer especially. The principle of spraying is that any leaf-eating insect must have a poison administered. We have found nothing better than Paris green for this worm. Of course, this can only be used very early in the spring, as it would be dangerous to use it after the berries are formed, for there might not be rains enough to wash it away before picking and marketing.

Burning over the beds in early spring is a method sometimes advised. And if there is a good crop of rubbish it certainly will destroy immense numbers of the eggs. But the burning must be done with discretion in order that no harm be done to the plants. It should be done with a high wind, so as to make a surface burn, and not a deep burn. It will now perhaps be too late for you to burn this spring, for that must be done before strong growth begins.

Probably the best course for you to take now is the poison route as indicated above. But to guard against future trouble, and to secure fruit and have no trouble with this enemy, take the plan usually followed by experienced strawberry men. Plant a new bed this spring at some distance from the old bed. And as soon as you are done picking fruit from the old patch, plow it down. This will destroy the worms, and you will not have enough to bother upon the new bed for two years. It is well and we strongly advise you to go over the new beds and hand pick and destroy all the worms you can find. Should there be some you will forestall the next worm crop and save a vast amount of labor and loss in the coming years. And this hand picking is not very laborious when there is but one plant to the hill.

ASPARAGUS AND RHUBARB FROM SEED.

To the Editor of The Homestead:

The reason that I have thus mentioned these two garden plants in this connection is that they are usually propagated from roots bought from the seedsman or secured from a neighbor's garden. There are several advantages in propagating from seed. In the first place you may more readily get the desired variety since one is not likely to be able to get roots from more than one or two standard kinds of either pieplant or asparagus. If a hundred or more of the roots are needed, the cost will be considerable, and results are not always more sure or quickly realized with roots.

Asparagus or rhubarb seed may be sown in the spring in an outdoor bed or in a window box, and the young plants transplanted where they will have more room, later on as the weather becomes warm.

Asparagus may also be sown in rows where it is to stand. In this case lay off rows three feet apart, and make the soil very fertile. Sow the seed thinly and in quantity sufficient to insure a plant every foot. The seed are very slow to come up, and in most instances it will be fifteen to twenty days before all are through. Give them clean culture throughout the summer, thinning so as to stand a foot apart in the row. Asparagus is a gross feeder, and the ground should be top dressed with a coating of rich manure, preferably from the hog pen. Compost which contains ashes is also an ideal fertilizer. When the seed are thus sown where the plants are to stand, there will be some more labor the first year, but the results will be more satisfactory. You will have larger and thriftier plants, with a fair crop the next spring.

If the plants are grown in a seed bed and later transplanted to the row,

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Nearly every soil contains enough plant food for many hundred years; yet those who add plant food to the soil get larger crops than those who do not.

WHY?

Because there is only a small part of the soil plant food available. It can support only a small crop. A larger crop requires a large amount of plant food. It cannot get enough from the soil's natural supply, and those who supply it in available ready-to-use form reap the benefit. The amount required is small, but it is as necessary as the twelfth inch in the foot. If the crop has to wait for its plant food **remember, it waits at your expense.**—To avoid this,

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DO IT

These fertilizers supply to growing crops in available form the plant food elements required which in connection with good seed, cultivation and weather, and the plant food supplied by the soil and air, are producing good crops of profitable size and quality. Farmers depend upon them as upon other old friends, and have done so for years.

Agents wanted where we have none. Address early for prices and terms,

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DESCRIPTION

Breast collar style. Bridle, 5/8-inch, overcheck or round side reins. Lines, 7/8-inch fronts, 1 1/8-inch hand parts. Breast collar 2¾ inches wide, V shaped. Traces, 1¼-inch. Gig saddle, harness leather skirts, flexible tree, 1-inch bearers, 1-inch wrap straps. Breeching, 1 5/8-inch harness leather body, 7/8-inch split hip straps, 7/8-inch side straps, 7/8-inch turnback, crupper to buckle on.

No. 101J3581 With nickel buckles, solid nickel hook and terrets..... $16.95

Enables you to hitch or unhitch in less time than it now takes to place the shafts in the loops. Only **one** place on each side to hitch, instead of three or four.

All parts of the harness are securely united, they all work together and there is no jerking, which means less strain on the parts.

Either tug, when hitched, unites two complete circuits of harness, one for draft, one for holding back, and makes certain the movement of the vehicle, forward or backward, as the horse moves. This avoids accidents caused by failing to unhitch one or more of the straps in old style harness.

Works automatically in hitching and is just as quickly unhitched by pressure of thumb.

Women and boys—and busy men, will appreciate this new "Quick-Hitch" Harness. Our **low prices** tell the best story of **big values.**

Send for Our Big Harness Catalog

Contains over seventy pages of bargains in fine Harness, Saddles, Bridles, Collars, Whips, Pads, Trimmings, Blankets, Etc. Should be in the hands of every horse owner. Write postal now. Please ask for Harness Catalog No. 65147

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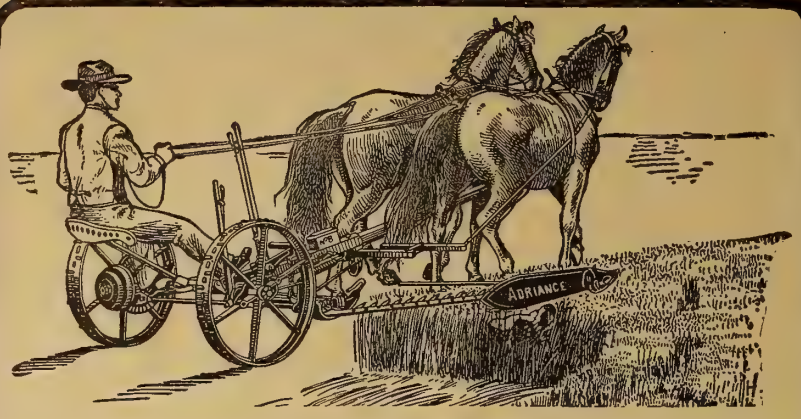

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It is very simple in construction. The main frame is a single piece—wonderfully strong and rigid, insuring perfect alignment of shafts and mesh of gears. It is the easiest to handle. The levers are handy and easily operated from a comfortable position in seat. One easy forward acting foot lever in front of the driver does the work with natural movement of the leg.

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It is the first grain elevator ever made and has never been approached by imitators. It leads the field in every way—in make, in capacity, in sales. For engine or horsepower.

Up-to-date crib plans with detailed drawings, specified bill of lumber with estimated cost, mailed to you free. ASK US FOR THEM NOW

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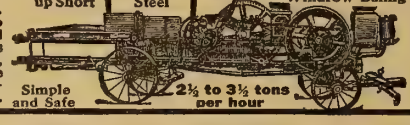
It has hopper cooled Gas Engine mounted on same truck, 4, 6, 8 or 10-horse power—gear driven magneto—the most complete outfit in existence. The **Sandwich** beats all ordinary presses 2 to 8 tons daily in every working test. **25 tons are its every day job—often 30 to 40.**

Full power delivered to Press by heavy **steel roller chain.** It does away with slipping, stretching belts. Simple time-tried self-feeder—**with big feed opening.**



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BUG DEATH

Kills all bugs and worms that eat the leaves of any plant or vine: also prevents blight.

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Give it a trial this year.

If your local merchant does not sell it, write us. Our booklet, Crop Insurance, mailed free.

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the preparation of the ground will be different. In this case the plants will remain in the seedbed standing eight or ten inches apart, and receiving careful cultivation through the season. In the South these plants will be ready to transplant to the row in the fall, but farther north it is well to wait till the next spring. Prepare the ground by furrowing out deep, making a trench say a foot deep. Asparagus has enormous roots, and will need plenty of room. In digging them up be careful to get all the root possible, and set them in the bottom of the trench; fill the dirt about them and pack well. Do not fill the trench entirely, but as the plants are cultivated work the dirt around them till the ground is level. Thus the crowns are several inches under the ground. These year-old crowns are superior to any you can buy, and you run no risk, since they are transplanted without becoming dry, something very important with asparagus.

Rhubarb plants are grown much in the same way as asparagus, except they are not to be set in a deep trench, but with the crown level with the surface. This distance to set them will be about a foot, and if in rows they should be three feet or more apart. For the larger kinds, a foot will not be far enough apart, some of the bunches being two feet across. Rhubarb should never be planted where it is to stand, but grown in a bed and transplanted to the row the next spring, very early.

H. F. Grinsted.

FAVORS STALLION LAW.

To the Editor of The Homestead:

As I glance over the pages of The Homestead and many other farm and stock papers, and see the criticism of the new stallion and jack law I feel like "butting in," as I have made the horse business a study for thirty years. In 1884 when I was but fourteen years of age my father owned a young stallion. I had this horse to care for and have had a stalion every year since, at one time owning three stallions and a jack.

I only claim to know a small portion of what there is to be known about the horse, but I expect to continue to study and take all the horse literature obtainable. I am a breeder of pure-bred horses on a small scale and see nothing to criticise in the new law only that it should be made a little more severe and then the county attorney should see that the law is enforced.

One correspondent thinks the new law is a "slap in the face" of every man who owns a stallion. I think that many of the stallion owners deserve a slap also. The new law is not going to drive any of the good horses out of business in this locality, but the grade horse is. Near here is a man who has purchased his fourth imported Belgian stallion, all of them the best he could find at the time and many of them good enough to win first at several state fairs, worth $1,500 or $2,000. Many of his neighbors refuse to patronize this man's horse on account of the service fee, $15.00, preferring to use a grade horse that recently sold for $96.00 because the service fee was only $10.00. They claim that his colts are equally as good, which in most instances is true, for if a man is not a breeder he will not be a feeder, and if a man is a scrub breeder and feeder he will never raise good draft horses. But there is little to encourage a man to purchase a first-class horse and stand him in a locality where not one man in 100 ever raised a draft horse in his life. A horse to classify as a drafter must have quality, conformation, style and action, and weigh better than 1,600 pounds in fair flesh.

If we had a mare law similar to the stallion law it would be another step in the right direction and it might be well to add a man law to prohibit the scrub breeder from placing all the blame on the stalion.

Butler Co., Iowa J. A. Bell.

Someone has conservatively estimated that around 6,000,000 calves are annually slaughtered in this country, including those slaughtered on the farm. There thousands of calves are annually slaughtered that are of good beef type. Their owners' slaughter and market them at a tender age to rid the cow of her charge and put her into the dairy service again. The dairy cow is a short road to profit, but her steer calf, if kept on the farm until he has attained the yearling age and then sold to a beef cattle feeder, should in the long run net more profit. It might not all be represented in dollars and cents, but that calf, having the run of the farm for a year, would help enrich the soil fertility enough to well pay its keep.

1 Man 2 Row 3 Horse Bailor Cultivators Are Money Makers and Time Savers

Cultivate 2 rows just as accurately and in half the time taken by single row machine. Save one man, one horse and one machine. Save valuable time in short seasons. Work under every condition.

Write for Free Book Scientific Corn Cultivation.

Tells how to get bigger profits from your cornfield. Shows why the Bailor is the only successful 3-horse, 2-row cultivator on market. A readable book for practical farmers.

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If he does not handle Bailor cultivators, we'll arrange for a demonstration in your town. No expense to you. Write

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TESTED SEED CORN

Guaranteed To Satisfy Or Your Money Back.

EVERY ear of our corn is tested for germination and we ship it in the ear, in the crate, so you can see just what it is. Our corn is adapted to your locality, no matter what part of the corn belt. Our growers are among the leading prize-winning exhibitors at the best corn shows, and our seed is especially selected and tested. Our price is extremely low when you consider that it only costs you less than 80c per acre for this specially selected and thoroughly tested seed. Tell us whether you want the Yellow Dent or the White Dent and we will guarantee the seed we send you will entirely satisfy or your money back. Price, shipped in the ear, in bushel crates, seed tested, $5 per bushel. A bushel will plant six to seven acres. Can you make a better investment? Order today. Address

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LEAMING Yellow Corn. Bred up in oil and protein, yields up to 100 bushels of grain and from two to five tons more ensilage per acre than most varieties. To close out we are making a price of $2 per bushel in less than 5-bushel lots. Over 5 bushels $1.75 per bushel. All shelled and graded and guaranteed to test 97 per cent germination. Address

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AT VERY LOW PRICES

MILLET, CANE, SOY BEANS AND ALL FIELD SEEDS Send for descriptive booklet.

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Golden Eagle Standard variety for overflowed river bottoms, heavy yielding, early maturing, deepest grained and smallest cob corn grown, fine cattle corn; also Reid's Yellow Dent, both Sept. picked and dried on hangers, $2.75 bu. Grower, W. C. Bryant, Princeton, Ill.

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CHOICE of Sen. Dunlap, Warfield, Crescent or Excelsior. Send for **Free Illustrated Strawberry Book.** Tells how to grow them. **The Wildhagen Strawberry Beds, B. 414, Waterloo, Ia.**

ALFALFA, $6; SWEET CLOVER, $11; cane, millet, timothy, $1.50. Pigs $11. Cholera serum, 2 cents. Farms for sale and rent on crop payments. John Mulhall, Sioux City, Ia.

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LEGAL DEPARTMENT

(Continued from page 9.)

oil shall fit the value of such property. Provision may be made in the articles of incorporation, exempting the private property of the stockholders from liability for the debts of the corporation.

SALE OF LAND—LOGS NOT FIXTURES.

A Subscriber, Chariton, Iowa.—A bought a farm last November, and took possession the first of March, 1913. Since I moved on the place the former owner has come and split all the logs which he had previously cut on the place and made them into fence posts. Had he a right to do this, and can he lawfully continue to do so?

Answer.—The logs cut by the former owner of the land, before you bought it, were not part of the land nor fixtures to it. They had been severed from the land, and constituted personal property, and the seller of the land had a right to remove them. He has no right to split them on your land, but he has a right to remove the logs and he is required by law to do it without delay in a reasonable time.

SALE OF ORIGINAL—DAMAGES.

A Subscriber, Donnellson, Iowa.—A traded a mule to B for a horse and about two months afterwards A found that the horse was an original. B is a regular horse buyer and he said nothing to A about the horse being an original when the trade was made. Can A recover damages from B, and if so to what amount?

Answer.—A cannot recover damages from B, unless B made false representations to A about the horse when the trade was made. As B said nothing at all about the condition of the horse, A has no legal cause of action for damages.

DEFECTIVE INCLINE—DAMAGES.

A subscriber, Mt. Zion, Iowa.—When delivering seed to a grain house D was required to haul his load of seed up an incline to the second story. This incline is very old, the sides being protected only by banisters of one-inch decayed pine boards and a couple of wires. This afforded no protection to D's team, and when the team was about half way up the incline the horses became frightened and crowded off, falling about six feet. One of the horses had its leg broken by the fall. Can D recover damages from the owner of the grain house?

Answer.—If D can prove to the satisfaction of the court, or jury, trying his cause, that the accident occurred by reason of the defective or dangerous nature of the incline, he can recover damages from the owner or operator of the grain house.

TRANSFER OF AUTO—REGISTRATION.

A Subscriber, Valeria, Iowa.—In the last part of December, 1912, I bought from a dealer a second-hand, crippled automobile, which had been used by the dealer as a demonstrator. Not being able to use it I did not get a transfer of registration, but the first part of the year 1913 I applied for number and registration. Does the law require me to pay for transfer of registration of 1912 before I can get my machine registered in 1913?

Answer.—Under the auto registration law of Iowa your machine will not be registered anew, but re-registered. You will have to pay to the secretary of state $1 and file the usual statement provided for in Sec. 10, page 71, Session Laws of 1911, to have change of ownership noted on registration book in office of secretary of state. The machines, if used, must be re-registered for the year 1913.

DIVISION LINE—ADVERSE POSSESSION.

A Subscriber, Timothy, Wis.—The owners of adjoining lands joined together and built a partition fence between their land twenty-seven years ago. The fence has been repaired a few times and remained where originally constructed till recently, when it gave way and became useless and a new fence must now be constructed. One of the landowners sold his place five years ago, and the purchaser contends that the old fence was not on the true line, and wants the new fence to be built on the true line. What is the law about the matter in Wisconsin?

Answer.—The old fence having been built by the owners of adjoining lands, and by them recognized as the line between their lands for more than twenty years, would be considered in law as fixing the division line, and it cannot now be changed by C, who purchased one of the farms. Where a division or boundary line has been acquiesced in for more than twenty years, it becomes the lawful division line by what is called adverse possession.

TIMBER LAND—PARTITION FENCE.

A Subscriber, Dudley, Iowa.—A and B own adjoining tracts of timber land. A's tract is unused by him. It is fenced on three sides by neighbors, A not owning any of the fence, and it is not fenced on the side along the public road. B pastures his tract and it is fenced with wire, but he wants to fence it hog tight. Can he compel A to pay for half the partition fence?

Answer.—He cannot compel A to construct or pay for half the partition fence. The owner of timber land, not used except for the timber thereon, and from which the owner derives no revenue or benefit, is not required by law to construct or contribute to a partition fence; besides, where a land owner chooses to let his land lie open, as A's land does to the public road, he is not required to build or pay for any part of a partition fence.

SUBTERRANEAN WATERS—WELLS.

A Subscriber, Goldfield, Iowa.—A has a flowing well curbed by two-inch gas pipe, to which he has attached a hydraulic ram to supply water to his house. The well is on high ground and the water rises about a foot and a half above the surface, furnishing twelve gallons per minute. B is about to sink a five-inch well on lower ground, that may raise water fifteen feet above the surface and will attach a ram to pump water to his residence, not on the same lot, but in another part of town. On account of the large pipe and being on lower ground B's well will stop or weaken A's well so that it will not operate his ram and thus make his expensive water system useless. If B would take only what water he actually needs, reducing the leakage at his well, it would not seriously interfere with A's well. What is the law in regard to this matter and how can injury to A's well be prevented?

Answer.—If the subterranean water supplying these wells is percolating, and not flowing in a crevice or channel, A cannot prevent B from fully operating his well, but if the water flows in a clearly defined underground channel, then A may obtain an injunction from the district court, restraining B from so using his well, or take more water than he actually needs, to the injury of A's well.

PAY ONLY THE HOLDER OF A NOTE.

A Subscriber, Hazleton, Iowa.—A gave his note for $1,000 to B who sold the note to C for full face value without A's knowledge. Afterwards A paid B $500 on the note, getting a receipt stating that it was applied on $1,000 note, giving date, also date when applied and name of holder, but in fact no indorsement was made on the note. Later A paid B another $100 to apply on note, but took no receipt and afterwards he paid B $380 to apply on note, but took no receipt. B noted amount down in a book and said he would endorse it on note. Finally A paid B the balance of the note six days before it was due and asked for the note. Then B said he had sold the note to C and could not get it just then and to call in a few days, but A has not got the note and C still holds it, believing it is not paid. (1) What must A do to recover the note? (2) Did B violate the law?

Answer.—(1) C can sue A for the full amount of the note, principal and interest, and recover judgment against him for the same. A will have to look to B for the money he paid B. A can recover the same by law if B is financially responsible. Payments of money on a note should never be made to a person who does not hold the note. (2) B rendered himself liable to a civil action, but it is doubtful whether he can be prosecuted criminally.

SILO AND HOG HOUSE—FIXTURES.

An Iowa Subscriber.—A rented a farm from B and has lived on it about five years. He built a silo on cement foundation, with guy wires running from the top of the silo to posts set in the ground. He also built a good hog house with posts set in the ground. The silo and hog house were built without the knowledge of B, but he now knows about them. Suppose he should sell the farm to C without saying anything about silo and hog house can A remove them when he vacates the premises?

Answer.—This is a very close and doubtful matter, but it is our opinion that the silo and the hog house are fixtures to the real estate, and in case B should sell the farm to C without reserving the silo and hog house, they would go to C as fixtures, and A would have no lawful right to remove them.

Cattle buyers must have a good opinion of the future cattle market; at any rate, the price of stockers and feeders remains high, regardless of the downcast condition of the fat stock market in comparison with the feeder price. There may be money in feeding cattle now, but it certainly is being done on a small margin between feeders and fat stuff.

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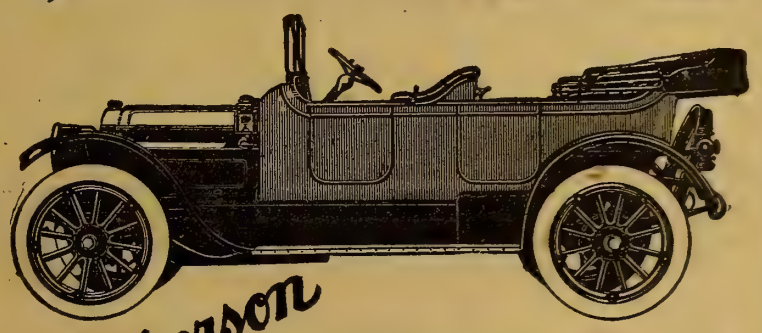

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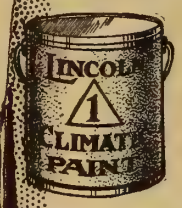

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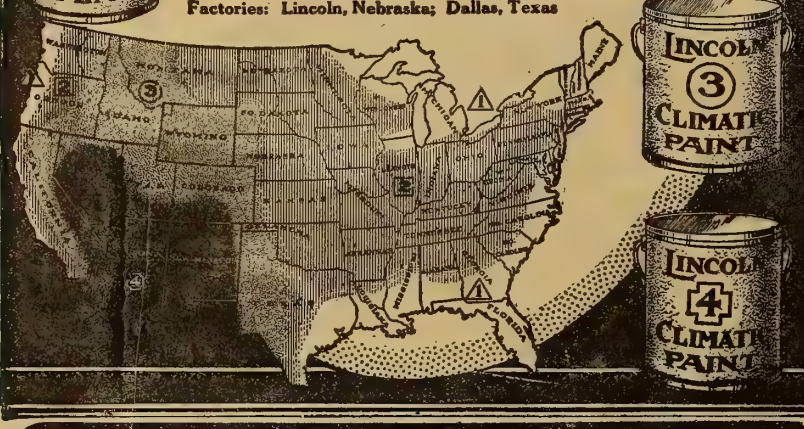

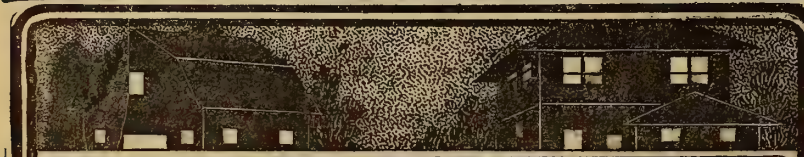

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THE HOME

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WITH THE EDITOR.

MOTHER O' MINE.

If I were drowned in the deepest sea,
I know whose tears would come down to me:
Mother o' mine.

If I were hanged on the highest hill,
I know whose love would follow me still:
Mother o' mine.

If I were damned of body and soul,
I know whose prayers would make me whole:
Mother o' mine.
Rudyard Kipling.

It is not without reason that we say one of the sweetest, dearest words in the world is mother—that we link it with "home" and "heaven"—or that we have that saying, "What is home without a mother?" or that there are so many stories of men, great because they had great mothers. Mothers are, in a sense, the pivot upon which life turns as well as the center from which life springs.

We have all seen a little child gazing anxiously out of a window and asking every few moments, "Why don't mama come? I want mama." Every one in the family is like that child. Big brother may be less outspoken than little brother, who runs to her when he cuts his finger or stubs his toe or wants a cooky, but he wants her none the less; big sister makes no secret of her dependence on mother, and little sister is so devoted to her that she frets if she is not allowed to sit next her at table or is scolded for cuddling down beside her in church. Father may sometimes be thoughtless, or even a little unkind, but when he comes into the house and does not see her his first question invariably is, "Where is your mother?"

The family is woven about mother; the life, comfort and happiness of the members depend upon mother. What does the family do to make life comfortable and happy for mother?

HOME AND HOME MAKING.

LIFE'S COMMON THINGS.

The things of every day are all so sweet—
The morning meadows wet with dew,
The dance of daisies in the noon, the blue
Of far-off hills where twilight shadows lie,
The night, with all its tender mystery of sound
And silence, and God's starry sky!
Oh, life—the whole of life—is far too fleet,
The things of every day are all so sweet.

The common things of life are all so dear—
The waking in the soft half gloom
To find again the old familiar room,
The scents and sights and sounds that never tire,
The homely work, the plans, the lilt of baby's laugh,
The crackling of the open fire,
The waiting, then the footsteps coming near,
The opening door, the handclasp, and the kiss.
Is heaven not, after all, the Now and Here?
The common things of life are all so dear.

—Alice E. Allen.

LAUNDRY HINTS.

Washing Flannels—If washed with soap, flannels usually turn yellow and are not so nice as when new. If you wish to cleanse them without any bad results, put some wheat flour into soft water and stir well so that balls will not form. Wash the flannels in this just as in soapy water, then rinse in cold water and hang out to dry.

To Wash Quilts Easily—When making quilts or comfortables, cover the cotton batting with mosquito netting and sew firmly in place. Then sew the outsides together in the shape of a pillow case and slip the pad inside. Tack it sufficiently to hold the pad in place. When soiled, the outside may be very easily removed and washed.

To Wash a White Wool Sweater—Wash in lukewarm suds until it is clean. Then rinse in clear water. Squeeze out the water; spread the sweater upon a clean Turkish towel and roll the two up tightly together. When the towel is wet through, exchange for a dry one and roll up in this as before. Repeat until the garment is dry. It will look like new.

To Make A Good Washing Fluid—Put one can of lye, five cents' worth each of salts of tartar and crystal ammonia, and two tablespoonfuls of powdered borax into a gallon crock or jug. Pour one quart of boiling rain water over them and after it has ceased bubbling pour enough rain water in to fill the jar. It is then ready for use. One quart cup of the fluid should be added to a boilerful of white clothes.

FROM THE HOME COOK BOOK.

Walnut Bread—If a variety is desired proceed as follows: When the creamed mass has been added to sponge, divide the sponge evenly, take half into another mixing bowl; to one-half add one-half cupful of currants, one and one-half cupfuls of the flour and knead as usual. Into the other half stir one-half cupful of ground walnuts, the rest of flour, and when raised a second time each can be molded into a loaf; this gives two kinds of bread from one sponge.

Pieplant Tapioca—Soak one cup of tapioca over night and in the morning cook it until clear, and of the consistency of warm blanc mange. In a buttered dish put one pint of pieplant, add one cup or more of sugar, enough to sweeten well, flavor with a little cinnamon or ginger root, pour over it the tapioca, cover and bake until the pieplant is done.

Pieplant Snowballs—Boil one cup of rice until soft in well-salted water. Wring small pudding cloths from hot water, spread the rice about one-half inch thick on them, add about one-half cup of finely chopped pieplant to each, draw up the cloth until the rice covers the pieplant all around, tie up tightly, and steam for twenty minutes. Remove the cloths carefully and turn out the balls on a plate, and serve with any preferred sauce.

Tomato Soup—A delicious and nutritious soup is made in this way by Bettina, a Finnish maid, whose cooking is something to remember. Cook a quart can of tomatoes for twenty minutes, then rub through a fine sieve. Season with salt and pepper and a few drops of onion juice. Cook a quart of milk in the double boiler, adding when at the boiling point, two tablespoonfuls of flour stirred smooth in a little cold milk. Add two tablespoonfuls of butter, now beat the yolks of two or three eggs in a tureen, pour the milk into the tomatoes and the mixture into the tureen over the eggs, beating vigorously so they will not curdle. Sprinkle finely-cut parsley over the top and serve very hot with croutons or bread sticks.

AMONG OURSELVES.

I think I must tell the friends of two interesting little things in connection with the picture we recently had of Mrs. C. W. Soesbe.

A few days after her picture was published Mrs. Soesbe had a letter from Oklahoma, asking if she were the Clara Stuart, with whom the writer had been cabin mate en route from Montreal to Liverpool in 1900. Then, in my mail bag, comes a letter from Iowa from a woman to whom I referred Mrs. Soesbe for club information. She writes: "Naturally we were all

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interested in the picture you gave us of Mrs. Soesbe and in her interesting letter. Mrs. Soesbe gave us much assistance; we now have our organization complete and enthusiasm runs high." This friend adds: "All who write for Among Ourselves seem to be personally near, for it is the great common woman's heart of us all that responds one to the other."

And now for our program whose first number is something about walls and papering, by Mrs. Unionville:

Spring, the most beautiful time of the year, has come at last. The flowers are in bloom and the woodlands are ringing with the songs of birds. It seems as if the world is putting on a new coat of beauty. Now is the time when we busy housewives are trying to make our houses look as if they too were putting on a new coat. Our hardest job in cleaning house is the paper hanging. Our first words are, "I don't know which color to choose." Most of us want our rooms to be light. If we choose a light paper the light will be greatly increased, but hanging the paper is more trouble than the choosing, as we all are aware. Many times after we have finished papering the paper will begin to peel off. This may be prevented by putting a dime's worth of glue (melted) and about a quart of sugar (just common granulated sugar) into the paste. Sometimes when the paper peels off it is caused by the wind blowing through the cracks in the wall. A strip of cloth (muslin is best) should be pasted over the cracks, for when the paper once gets broken it is soon ruined. If you do not have brushes for paper you can make one. Take an old clothes brush and nail it to the end of a smooth board about two or three inches wide and as long as you want it.

It is good to have this talk at this time and we thank "Mrs. Unionville," as we do "A Farmer's Wife," who comes to give us of her experience in decorating and freshening the home:

I will give some of my experience on fixing rooms cozy and cheap, especially bed rooms that have never been papered. On one side of each room the ceiling slopes down with the roof, so I measured off twenty inches all around for drop ceiling; for one I used cream-colored tinting. The side walls were light turquoise blue, with narrow border or divider of gold with turquoise figures. Curtains of unbleached muslin, five cents per yard, bordered at bottom with wide stripe of blue and white cretonne; the top which hangs over the pole about a foot has a narrow stripe. The blue matches walls. I repainted an old bed with white enamel paint, putting matting on floor with rugs. The bed could have a spread to match curtains, over blue. I have not made mine yet. Room No. 2, white ceiling, also drop with blue, blue walls, divider of narrow paper border in silver and blue, also repainted the bed, old-fashioned, four poster, with casters inserted in legs. I gave the dresser and the commode several coats of white enamel and used white Swiss for curtains, etc. Room No. 3, has pink and white walls and oak furniture. Down stairs bed room, blue ceiling like walls of front room of turquoise mixed with a little white to make shade lighter, tan walls, no drop ceiling. In this room border of six-inch paper, landscape effect, blue sky and water, light brown trees, cream cheese-cloth curtains stenciled in blue and green, dark oak furniture, plain colored matting, cover for dresser and commode half-bleached crash stenciled in blue and green.

It is wonderful and most gratifying what can be accomplished at slight expense by a woman with ingenuity and perseverance. The idea of giving the various rooms a predominating color, as "A Farmer's Wife" has done, is very good and does not cost any more than the old way. Try it, friends, and see how satisfying it is to live in a room of this kind.

Two timely hints connected with the more prosaic side of spring house freshening will be presented by Mrs. M. H. and "A Colorado Reader:"

I wish to warn your readers to be careful in the use of corrosive sublimate in cleaning beds. Lack of care in this respect has caused me to lose the use of my right hand for the past six weeks. I wish that instead of it I had applied the following mixture, my former remedy for bugs, which always proved effective: First wash the beds with cold water and apply turpentine with a small oil can. Slightly beat the white of one egg and stir in five cents' worth of quicksilver, rubbing the mixture on with a quill or brush. One application completely exterminates them. I wish I had used it again instead of the corrosive sublimate.

A good insect pest remedy is: Put enough painter's glue in a pail of water and wash the walls and wood work, and furniture, being sure it gets well into all cracks. This will paste all insects and eggs into the crack. If walls are papered the paper should be removed.

It is so necessary to know about these things, what are efficacious and what dangerous, that the friends have served us effectively in what they have brought us along this line.

"Sister Nell" has a question to ask:

Will the lady who wrote several weeks ago for the Home Department about the soup beans kindly tell the name and where they can be purchased, as I have always wanted some, but did not known where to get them or what to ask for?

As the season of little meat is upon us there may be others who would be glad to know of these beans. We shall hope for a prompt reply to "Sister Nell's" inquiry. How would it be if some one of our housewives would give us experience and recipes along the line of meat substitutes?

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

WHAT CAN WE DO?

(First Prize.)

(Spoken to the Young People of our Literary.—April 4, 1913.)

I am neither a brilliant writer nor an excellent talker, but out of my fullness of heart I find it possible to say a few words to you all today, and because you are all my friends I shall try and be simple and direct in what I have to say.

This is the anniversary of the day when we organized our young people's Literary, and it is a fitting day to sum up, and think of what we have accomplished and I am glad to say I think it is a great deal, considering the short time we have had. But we must also think, and think seriously, of what we can do during the future, individually, as well as in a body, for the betterment of ourselves and fellowmen. I think, and am sure that each one of you has thought seriously of the many topics we have discussed during the past year. But is it not time for action?

We are young and strong, and capable of bringing to the light and

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Write for Catalog and Full Particulars of Our Introductory Free Gate Offer.

Our proposition is fair and square. One gate free to one farmer in each county for helping introduce.

Standard Mfg. Co., 300 Main St., Cedar Falls, Ia.

$1.90 FOR THIS DANDY GATE

These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**

Iowa Gates

The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

IOWA GATE CO., 9 Clay St., Cedar Falls, Ia.

ORNAMENTAL FENCE

25 Designs—All Steel

Handsome, cost less than wood; more durable. Don't buy a fence until you get our Free Catalogue and Special Prices.

We can save you money.

Kokomo Fence Machine Co. 498 North St., Kokomo, Ind.

BROWN FENCE

BIG BARGAINS in Fence. 150 styles—13 cents per rod up. We pay freight. Send for bargain fence book and sample to test—ALL FREE.

THE BROWN FENCE & WIRE COMPANY DEPT. 34 CLEVELAND, OHIO

"Can't-Sag" Gates Cost Less Last 5 Times as Long

I'll save you big money on your farm gates. My new catalog quotes astonishingly low prices on CAN'T SAG GATES AND GATE STEELS that you simply can't afford to build another clumsy, all wood gate. My FREIGHT PAID PRICES are half what others charge for short-lived steel, wire and gas pipe gates.

30 Days' Free Trial—5 Year Guarantee

I give 30 days free trial and a signed 5 year guarantee. Send for my big free Gate Catalog at once—see why Can't-Sag Gates outsell and outlast all others. Read what other farmers and stockmen say about them. When you get this book you can either select complete CAN'T SAG GATES, Ready to hang, any height, any length—painted or unpainted or if you prefer you can order just the GATE STEELS which includes everything but the boards. With these you can build your own Gates in 30 minutes and SAVE BIG MONEY. A. Y. Rowe, Pres.

(6) Send for FREE Gate Catalog Today

Note These Special Features

Each board double locked between 4 pairs of ANGLE STEEL uprights and 6 DIAGONAL LOCKING BRACES. Patent reinforced SELF-LOCKING HINGES. Gate swings easily both ways—always ... and plumb. Elevating Attachment (furnished at ... cost, permits gates to be raised over deep snow or ... all stock to pass under. Write for Free Catalog and FREIGHT PAID OFFER TODAY. Address A. Y. Rowe, Pres. Rowe Mfg. Co., 496 Adams St., Galesburg, Ill.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

Fine Prize Pony Given Away

You see in this picture a boy riding one of the splendid prize ponies I am going to give away. In other parts of the picture are the faces of several other boys. They are rather hard to find, but by turning the picture about you can see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send your name and address so I can tell you all about the contest in which you can win a beautiful pony and many other prizes.

1500 Votes Free

I will send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

A. M. Piper, 600 Popular Bldg, Des Moines, Ia.

A PAIR OF GOLD HANDLE SCISSORS FREE

I have a pair of these excellent scissors with gold plated handles to give to each one of my lady readers who will answer this advertisement. The scissors are full six inches in length and made of best material. The blades are perfectly tempered, nickel plated and very highly polished; the edges are keen and accurately beveled; the handles are beautifully carved and

Plated With Pure 22 Karat Gold

I am not afraid to guarantee these scissors. If you are not perfectly satisfied with the pair I send you, after using it for a week, you can return it to me and I will cheerfully refund your money. Did you ever have a better offer than this? You have absolutely nothing to lose

I guarantee safe delivery by parcel post. If the scissors are broken or damaged in transit I will replace them free of charge.

This Offer Good Only Till June 10.

Send me $1 for one year's subscription to The Homestead, new or renewal, and I will send you this pair of scissors postpaid free of all charge. Do not go to the trouble of going to town to get a money order. Simply pin a dollar bill to the coupon below and mail it at my risk today.

ADDRESS ALL ORDERS TO

James M. Pierce, Pub. Homestead Des Moines, Iowa.

USE THE COUPON

Date.....1913

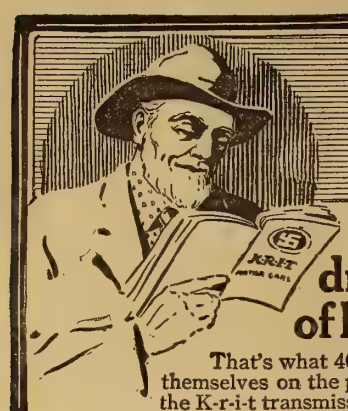
James M. Pierce, Des Moines, Iowa.

Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Homestead one year. Send me free of charge your gold handle scissors.

My name.....

Postoffice .....

Rural Route .....State.....



K-R-I-T

The K-r-i-t-Farmer drives a low-priced car of high-priced efficiency

That's what 4000 K-r-i-t-Farmers tell us. They satisfied themselves on the power of the K-r-i-t motor, the durability of the K-r-i-t transmission and the strength of the K-r-i-t axle.

They have proved for themselves that the motor is the heart, the lungs, the very life of any motor car; the transmission, its muscles and nerves; the axle its backbone and legs.

No farmer would buy a horse with weak legs or a weak back. The K-r-i-t-Farmer knows the strength and safety of the K-r-i-t Axle. He enjoys that feeling of security afforded by the knowledge of extra braking surface. Here's how intrinsically good the K-r-i-t Axle really is:

The K-r-i-t axle is of the semi-floating, split housing type.

The malleable iron and tube construction give a rigid support to the gear bearings, maintaining an exact alignment of the gears at all times which is essential to quiet running and long life.

The centre housing casting is so constructed that the metal required for the bearing supports also carries the stresses of the load on the axle.

This construction is actually lighter in weight than a corresponding pressed steel full floating axle and is used by most of the higher priced cars and almost universally on the best foreign cars.

Once the gears are set and are satisfactory and quiet under test it is impossible for them to get out of alignment.

It requires great accuracy to make axles of this type so they can be assembled economically.

This we are enabled to do as we make our own gears within our own organization.

We have used this type of axle on K-r-i-t cars for the past three years and never have we had returned to us a broken axle shaft and repairs are practically nil.

The spring suspension on the K-r-i-t car helps the axle in that it is flexible and does not bind the axle or put any undue strain upon it.

Let us tell you what 4000 K-r-i-t-Farmers say of the K-r-i-t axle.

Send for the name and address of the nearest K-r-i-t dealer and he will be glad to bring the K-r-i-t to your farm.

Write us today—now.

Krit Motor Car Company, 1660 East Grand Boulevard, Detroit, Mich.

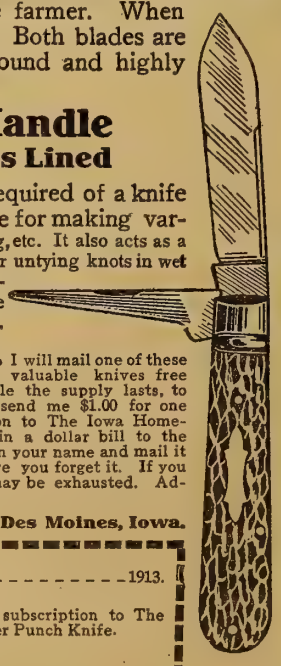
All Models $900 f. o. b. Detroit

THIS KNIFE COSTS MY READERS NOTHING

You have read about the famous Leather Punch Pocket Knife—the knife that is called the "Marvel of Mechanical Ingenuity"—the only knife that was ever made especially for the farmer. When opened it is six and one-half inches long. Both blades are of finest tempered tool steel, perfectly ground and highly polished. The knife is complete with

Best Quality Stag Handle
Securely Riveted and Brass Lined

The large blade fills every common use required of a knife while the leather punch blade is indispensable for making various sized holes in leather for buckles, rivets, belt lacing, etc. It also acts as a swedging awl or marlin spike when turned to the left. For untying knots in wet rope and hard leather this blade has no equal. While possessing all these valuable features, the knife is no more clumsy or awkward to carry than an ordinary pocket knife.



My Guarantee I am so sure that this knife is all I claim for it that I am going to place a gilt edge guarantee on it. Send me $1.00 for one year's subscription to The Iowa Homestead. I will mail you a knife free. Try it for ten days. If it is not just what I claim it to be, you can return it to me and I will refund your money. You take no chances.

My Offer I will mail one of these valuable knives free and prepaid, while the supply lasts, to anyone who will send me $1.00 for one year's subscription to The Iowa Homestead. Simply pin a dollar bill to the coupon below, sign your name and mail it to me today before you forget it. If you wait my supply may be exhausted. Address all orders to

JAMES M. PIERCE, Publisher Homestead - Des Moines, Iowa.

USE THIS COUPON

Date ---------- 1913.

James M. Pierce, Des Moines, Iowa.
Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Iowa Homestead for one year. Send me prepaid your Leather Punch Knife.

My Name is ----------

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ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address
HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

FOR SALE at **one-half price** for **30 days.** The best **Farmers' Account Book** published. Regular price $3.00. **Special price** for 30 days, only **$1.50.** Money **refunded** if not satisfied. Order now. Address
G. E. King - Cedar Rapids, Iowa.

denouncing the things that are impure, and to uphold the truth, and the beautiful things of life. Of course, we think in a small neighborhood there is nothing to be done, and yet—the small things, those that underlie the beautiful, truthful soul everyone has in their keeping, are circulating everywhere.

Take gossip, for instance. It is not an uncommon thing to hear particularly personal affairs of people discussed in public, and is it not true that it is often magnified until it becomes an absolute untruth? Not only older people, but younger members of the family "spread the news," regardless of the feelings of the person concerned. This could easily be remedied, individually, if each person made up his mind, sincerely, never to repeat any unpleasant things.

Another is the profuse use of profane language commonly called "slang." It is rather jarring to hear an otherwise refined boy or girl repeat, "Oh, gee!" twenty times in as many minutes during a conversation. In this unrestrained country of ours where the young people can nearly always talk and act to their own liking without particular restraint from parents or friends, it is up to them to carefully restrain themselves that people may know that Americanism does not mean vulgarity, but capability of conducting themselves in a manner that is an honor to that trust. Don't you think so?

And another thing: are we broadening our minds beyond the sphere where we live in the quietness and seclusion of our own neighborhood, or work? Of course. Have we not discussed during the past few months, any number of questions pertaining to the things of vital importance to the welfare of people in general, political, as well as industrial?

Some of the ideas given were well worth distinct approval. But what can we do to improve these things? By beginning at home! Does that not strike some of you as strange? I have studied long, as no doubt a great many of you have, because I know your ideals are high, and your greatest ambition is to do the most good. Individually, we can consider and weigh this matter and I think you will all come to the conclusion that if you make your own life just as good as possible it is going to do more good than trying to reform others first. And altogether, what can we do? Rather say, what can't we do? But that would be rash impetuousness of youth as father says. But, we really can do a great deal together. What do Sunday school classes, women's clubs, civic leagues, etc., do? And are we not an organization? There are seventeen earnest workers here. With health, ambition and high ideals to guide us. Why should we not do as the parable says, "Go forth together," and think over the needs of our neighborhood and our ability, and then "Do!"

May we ever keep up our ideals, and look to God for strength and I am sure our work will not be in vain.

Bedouin.

Our Friends, The Birds.

(Second Prize.)

He must be very dull indeed who is not inspired by the plaintive notes of a spring songster. To my notion there is no music sweeter than that of birds. It thrills the heart with joy and makes the heart move with love when these gay little friends of nature first visit our clime. We may watch their habits and learn many lessons from them. They teach us cheerfulness and perseverance. They sing praises continually, their praises to their maker. There are many kinds of birds. They come as soon as the frost has left and stay with us until the frost comes in fall. Some birds destroy many harmful insects; there are few that do harm; the numbers of useful ones are greater than the ones that do harm. Birds are company to old and young. Try to tame birds and you will have good friends. They soon learn our voices and will even distinguish between persons. Most birds are clean in their habits and teach cleanliness. Birds are sympathetic, often showing great feeling for one another. A mother bird will show much grief for her young ones and will sacrifice much for them. Do not kill birds, but let them live to enjoy life.

Phylla, age 13.

My Bantam Hen.

(Third Prize.)

I had one little bantam rooster and I wanted a little hen, so I got eight eggs. Mama put the eggs under a chicken hen. Six of them hatched and were as pert as they could be. But every night the hen mashed one till there was only one left. I took it away from the hen and raised it by hand. Mama and I thought it was a hen. One day Mama came in and said to come and see the bantam. I went, and there on the fence sat the bantam hen crowing with all her might!

Belma, age 10.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 7, Gen. 42. May 18, 1913.

JOSEPH MEETS HIS BRETHREN—THE STORY.

That inimitable story teller, Edward Everett Hale, runs an imaginative parallel to the authentic history of Joseph. It is to the effect that once the Hebrew lad is on the point of escaping by night from the camp of the slave traders, when a yellow dog barks, his keepers are awakened, and he is retaken. An onlooker wants to kill the dog before he barks, and thus help Joseph to escape. But the guardian angel cries, "Hands off!" And just to show him what would happen if he were to interfere in this way, he lets him try it out in an ideal world. The dog is killed. Joseph escapes; his father is happy; his brothers comforted. But the famine comes, and there has been no Joseph to store the corn in Egypt. All the Orient famishes. Great civilizations perish; others remain undeveloped because a yellow dog was not allowed to bark. It is a clever way of showing how great events may turn on small hinges and the suffering of many be saved by the suffering of one. Never were tables turned more completely. The brothers futilely scanned the faces of passing slaves, thinking they might possibly see in transit the brother they had sold into bondage twenty years before; but they looked straight into the face of Pharaoh's secretary of state, wearing the king's purple and signet ring without the slightest suspicion that their own blood ran in his veins. "They knew him not." Joseph naturally had no such difficulty. His brothers were grown men when he was parted from them. They had changed little, if any. They were in their own native shepherd garb. "Joseph knew his brethren," but he could not know their feeling and attitude toward himself, and was perfectly justified in putting them to the test, severe though it was. Joseph equaled, if he did not surpass, his kingly descendant in the judicial expedient he used to try out his brothers. It was not until they were actually in their brother's sorry plight that they felt the pangs of conscience and said to each other: "We are guilty. We saw his anguish. Yet we would not hear him. Now his distress is ours." Little did they dream that the prince around whose neck hung Pharaoh's golden chain, and at whose door stood a chariot second only to that of the king, understood every syllable of the native dialect in which they talked. Joseph showed how fit he was to wear the purple by not immediately disclosing his identity and thus magnifying himself. Again, he loves his brothers, in spite of their unkindness, far too well to simply condone their offense. He felt his moral obligation to reform his brothers before he forgave them.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

2144 Ladies' Bust Supporter.—The brassiere is a boon for the stout or full-busted woman. This is a good model. It crosses at the back so as to fit well down over the figure in front. The center seam and darts may be boned to assist in holding the figure smoothly. The pattern 2144 is cut in sizes 32 to 48 inches bust measure. Medium size requires ¾ yard of 36-inch material. Price of pattern ten cents.

6021 Ladies' Shirt Waist.—A pretty and fashionable shirt waist is here offered. The garment is made with front and collar in one and may have long or short sleeves. The short sleeves are finished with pointed turn-back cuffs. Silk, linen, madras, poplin or serge may be used to make this waist with the collar and cuffs of contrasting material.

The pattern 6021 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¼ yards of 36-inch material with ¾ yard of 24-inch contrasting goods. Price of pattern ten cents.

2882 Ladies' Apron.—This apron is made in sack style. It can be made with either the high neck and rolling collar or it can be made with the round or square neck. Gingham, percale, linen or chambray can be used to make this apron.

The pattern 2882 is cut in sizes 32, 36, 40 and 44 inches bust measure. Medium size requires 5⅛ yards of 36-inch material. Price of pattern ten cents.

4036 Girls' Apron.—This apron is made in one piece. It may be made of gingham, lawn or chambray and trimmed with edging and insertion.

The pattern 4036 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 1½ yards of 36-inch material, 3¾ yards of edging. Price of pattern ten cents.

6061 Misses' Dress.—This dress is for the miss and small woman. The pattern provides for two styles of collar and the three-gored skirt may be with either the empire or regulation waistline. The closing is at the front.

The pattern 6061 is cut in sizes 14, 16 and 18 years. Medium size requires 4⅜ yards of 36-inch material with ¾ yard of 27-inch goods to trim. Price of pattern ten cents.

Play Ball!

Every One Wants Our New, Big 200 Page Sporting Goods Catalog. Send For FREE Copy

It shows all the newest, most desirable out-of-door-life goods. Highest Quality—Lowest prices in Base Ball Goods, Fishing Tackle, Tents, Seines, Bicycles, Tennis, Croquet, Golf, Hammocks, Camp Outfits, Portable Houses, etc.

BASE BALL SUITS TEN GRADES

Suit Samples FREE

Made to measure, any style, all colors. Monogram or Lettered. We are the largest Exclusive Sporting Goods House in the World—we outfit you absolutely right and give better value for less money.

Remember—Catalog 951H Free

Schmelzer Arms Co.

KANSAS CITY, MO.

AGRICULTURAL FAIRS.

According to a bulletin of the department of agriculture, the first full-fledged agricultural fair, primarily for competitive exhibits instead of for marketing, was held at the Columbian Agricultural Society, which was organized in 1809 by a number of gentlemen interested in agriculture residing in Maryland, Virginia and the District of Columbia.

Its first exhibition was held in Georgetown, May 10, 1809, and the National Intelligencer of that day reported that it was "attended by a numerous assemblage of members of the society, among whom we noticed the president and his lady, the secretary of state, the secretary of the treasury, the secretary of war, the comptroller, register, etc., and many other ladies and gentlemen of respectability."

This fair was mainly devoted to domestic animals and manufactures. Semi-annual fairs were held until the spring of 1812, when the war with England and the expiration of the time for which the society was organized caused its discontinuance.

The oldest existing agricultural society that holds fairs is the Berkshire Agricultural Society, Pittsfield, Mass., which held its first fair in the autumn of 1810 or only one and one-half years after the first fair of the Columbian Agricultural Society.

FLY APHORISMS.

Flies in the dining room usually precede nurses in the sick room.

Screens in the windows prevent crepe on the door.

Flies, as well as bad water, spread typhoid.

A fly in the milk may mean a member of a family in the grave.

A fly has natural enemies; the most persistent and most effective should be man.

It costs less to buy a screen door than to get sick and lay off for a month.

It's a short haul from the garbage can to the dining table via the fly route.

If at first you don't succeed, swat, swat, swat again.—Kansas City Star.

THE SUCCESS OF ROAD DRAG DAY.

(Continued from page 3.)

of the farmer and of the local merchant. The Iowa farmers entered into the matter in the proper spirit, being careful not to pick out the best and smoothest parts of the roadway, but dragging the rough and impassable parts so as to put the roads in good condition and thus fulfil the exact spirit of the occasion. Practically every one of the farmers who entered Stuart was an enthusiastic dragger and declared that the road drag is as indispensable a piece of farm machinery as anything they know. Many of the road drags were simple, homemade, split-log affairs, but few being purchased ones, showing that road dragging is not dependent upon expensive machinery, but that enthusiasm and time are the main factors, the expense of dragging being of minor consideration.

Other towns have followed the Stuart example with good success and many miles of highway have been put in first-class condition. Co-operation between the small-town merchants and farmers is all that is necessary, the merchandise prizes being sufficient to give the proper incentive, the farmers being only too glad to do actual work. The amount of merchandise pledged by the town merchants to each farmer approximated $5, so that the entire outlay for this successful Stuart Road Drag Day was only $125, distributed among practically every merchant of the town, a small individual outlay considering the benefit to trade from the improved roads and from the winning of the friendship of a score of prosperous farmers.

Plans are being laid already for similar celebrations, not only throughout Iowa generally, but throughout the entire grain belt. Notwithstanding the fact that the farmers are busy in their fields there is a general realization that a half day spent in as good a cause as road dragging is time well invested, with monetary returns forthcoming not far in the future.

—a double investment

At the price of ordinary silver, you can also secure the long-wearing quality of

ROCKFORD Silverware

heavier than standard

Your jeweler will gladly show you the beautiful patterns that we make and tell you why our ware is a double investment. Each piece is uniform in wearing quality, and a half dozen knives and forks starts the assembly of a beautiful addition to your table.

We should like to send you, free, our booklet "Exclusive Silverware" which illustrates and describes our product.

ROCKFORD SILVER PLATE COMPANY

100 Wyman Street

Rockford, Illinois

WHOLESALE and RETAIL PROFIT SAVED

Freight Paid On The Celebrated

CENTURY MFG. CO'S Rubber Roofing

Indestructible by Heat, Cold, Sun or Rain

WARRANTED FOR 25 YEARS

1-Ply, 35 lbs. 108 square feet, *$1.10* per roll.
2-Ply, 45 lbs. 108 square feet, *1.30* per roll.
3-Ply, 55 lbs. 108 square feet, *1.50* per roll.

Delivered Free to any station east of Rocky Mountains except Tex., Okla., Colo., N.D., S. D., Wyo., Mont., N.M., La., Ga., Ala., Miss. and Fla., on orders of three rolls or more. Special prices to these States on request. Satisfaction Guaranteed. Reference—Southern Illinois Nat'l Bank.

Write us for FREE SAMPLES or order direct from this advertisement. Terms Cash. Address,

CENTURY MANUFACTURING CO.,

DEPT. 322 East St. Louis, Illinois, or
DEPT. 322 27 East Monroe St., Chicago.

Bovee's Compound Horizontal Furnaces at Manufacturer's Prices

Save 40% of Fuel and Cost.

Burn perfectly coal or wood. Sixteen-inch doors. Heavy coal grates—large combustion chamber—compound radiator.

Long travel of heat. Easy to operate. Most practical heating plant for all buildings, especially for farm use.

Will soon save cost in fuel. Write for particulars.

BOVEE FURNACE WORKS,
200 8th St., Waterloo, Iowa.

Get Your Wife An ALLWIN Iceless Refrigerator

THE most practical, convenient and economical article for the housewife ever made. Keeps milk, meat, vegetables, etc., without use of ice or chemicals.

Every modern home should have one. Write today for free illustrated catalog.

Iceless Refrigerator Co.
5981 West Ohio St., Chicago

DAISY FLY KILLER placed anywhere, attracts and kills all flies. Neat, clean, ornamental, convenient, cheap. Lasts all season. Made of metal, can't spill or tip over; will not soil or injure anything. Guaranteed effective. Sold by dealers, or 6 sent by express prepaid for $1.

HAROLD SOMERS, 150 DeKalb Ave., Brooklyn, N. Y.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Ill. May 10th—Demoralization with a big "D." has again overtaken the beef cattle trade. Closing prices this week are down on most all classes to the lowest point of the year to date and if further declines are to be side stepped next week it will be up to the country to do some heroic work in checking the marketward movement. It has been a week of adversity for the selling side in all departments of the live stock trade. Instead of following the advice sent broadcast against overloading the cattle and sheep markets this week, 10,000 more cattle have reached the six leading western markets than the week previous and the local sheep run has been the second largest for any week since February. Hog receipts have also been heavier than expected at this busy corn-planting period and although swine values have recovred fairly from mid-week declines the trend of prices will doubtless be downward during the latter half of May and through June.

TEXAS GRASS CATTLE RUNNING.

Chicago has received 48,000 cattle this week and thousands of them had no place in market circles at this juncture. Six western points have had an aggregate crop of about 120,000. Texas is shipping grass and caked stuff freely to St. Louis, Kansas City and southwestern markets and they have been a factor, and promise to be a bigger one for the immediate future in the declines registered, particularly for the medium and low-grade native steers and the native butcher stock with which they compete. Texas cattle will be run right along now and the half-fat and medium natives should be held back. Far-sighted traders are looking forward to light receipts in July and August and those who are now rushing half-fat cattle to market will doubtless then realize their mistake.

AS TO FREE MEATS.

Causes for the premature lequidation of cattle that has been runing riot for the last fortnight or more have been previously pointed out in these columns. The assurance by traders here that free beef cannot possibly affect cattle to be marketed within the next few months is worthy of reiteration, although it seems to be falling on deaf ears. If liquidation involved only finished cattle the matter would be less serious, as their place now is at market, but the furore is dumping into the market hopper thousands of light cattle that ought to have been given a good corn-crib cross and to make matters worse the country has ceased buying fleshy feeding cattle, although feed is abundant.

STILLER CATTLE RUNNING.

Distellery cattle from Kentucky and other southern points are now moving out to eastern markets at the rate of around 6,000 a week and in thier wake hovers the crop of Illinois and Indiana slop-fed stuff. This reduces the demand for the shipping classes of steers at this market and is a factor that must be taken into account for the next six weeks or more.

Hard and fast statements as to the amount of the decline effected since the best time of the latter half of April cannot be made with any degree of accruacy, but that the rank and file of the beef steers grading below strictly choice and most of the good to choice fat cows and heifers have slumped off fifty to seventy-five cents per hundredweight within the last three weeks admits of no dispute. In extreme cases declines of eighty-five cents to $1.00 on yearlings of both sexes and plain to medium beef steers are quoted. Same steers are fifty cents lower than on Monday of this week. The nine-cent bullock is out of commission. Although a $9.10 top was made last Monday by a two-car drove of ripe heavy beeves, it is doubtful if the same kind could not beat $8.80 and $8.25 to $8.60 is buying very choice cattle, while the class of steers selling within this range at the start this week is now going at $7.75 to $8.25. Good dressed beef bulloks, a lot of them are now selling under $8.00, in fact, the $7.50 cattle at weekend have not been of a class to be sneezed at as they have been decent dressers. Quite a sprinkling of 850 to 1,100-pound steers, in the abscure of a feeder outlet for many of them have dropped to $7.00 to $7.40 into killing channels. The market has been glutted with yearlings and the kinds which are neither finished or thin have been as hard hit as anything.

FEEDER DEMAND SLUMPS.

Country buyers of stock and feeding cattle are backing away from buying the fleshy kinds in a manner that betokens a fear of future market development, while tight money, the evident certainty to the minds of feeders that meats will go on the free list and the fact that corn planting has engaged the attention of many prospective buyers have been factors of depression in the trade. Most feeding steers are twenty-five cents lower this week than last, though some of the qualitied lighter-fleshed kinds have escaped with a ten to fifteen-cent decline and some of the top notch stockers averaging under 700 pounds have held fairly steady. Demand, however, has fallen far short of expectations from all sources since the free meat bugaboo and consequent liquidation and declines in beef cattle became operative and thousands upon thousands of acres of good pastures, now ripe and ready to entertain and convert their juicy spring grasses into beef remain unstocked. A local stock cattle dealer takes this view of the situation: "Those who have plenty of grass I would advise to lay in their cattle now instead of waiting until midsummer. Cattle bought to graze now are frozen out and dried out and weigh light for the size of the bullock. Big gains can be expected in the next ninety days on grass, and considering the condition of cattle for flesh now as to flesh in midsummer, and gains that can be made the first half of the grazing season, I think that cattle bought now would prove cheaper than those bought later on, even if prices, for any reason, prove to be substntially lower later. It is also my experience that cattle started on pasture with the grass graze better and do better than when turned in on the heavy grass in midsummer right at fly time."

WILL SWAT BUTCHER STOCK.

More breakers are seen ahead in the butcher cattle market. Although most of the good to choice fat cows are fifty to seventy-five cents lower and the bulk of the yearling heifer stuff seventy-five cents lower than the April high spot, prices are still relatively higher than steers and a continuance of liberal marketings of Texas stuff for the next few weeks, which is logically expected, can have but one effect, that of pulling all native she stock values from canners up to the best to still lower levels in case receipts of native butcher and beef cattle closely approach their recent volume. Bulls are closing mostly twenty-five cents lower than last week and largely seventy-five cents lower than the high time two weeks ago. Calves are holding last week's closing prices, but the market, too, looks top heavy just at this time.

Quotations for all classes of cattle follow:

BEEF STEERS.	
Prime steers, 1,300-1,700 lbs.	$8.60@8.80
Choice steers, 1,250-1,500 lbs	8.25@8.50
Choice steers, 1,100-1,250 lbs.	8.20@8.50
Good to prime yearlings	8.00@8.65
Medium to good yearlings	7.50@8.00
Common to fair yearlings	7.10@7.50
Good steers, 1,100-1,400 lbs	7.65@8.15
Good steers, 1,000-1,200 lbs	7.60@8.00
Fair steers, 900-1,200 lbs	7.10@7.50
Medium steers, 850-950 lbs	7.00@7.35
Inferior steers, 800-850 lbs	6.50@6.90
STOCKERS AND FEEDERS.	
Selected, 900-1,150 lbs	7.60@7.85
Selected, 650-900 lbs	7.50@7.85
Fair to good, 600-900 lbs	7.00@7.40
Common to fair, 500-800 lbs	6.50@7.00
Inferior, 500-650 lbs	6.00@6.35
Stock and feeding heifers	5.50@6.50
Stock and feeding cows	5.25@6.00
BEEF COWS.	
Choice to prime fed cows	6.65@7.60
Good to choice cows	6.00@6.65
Fair to good cows	5.40@6.00
Com. to fair butcher cows	5.00@5.40
CANNERS AND CUTTERS.	
Good to ch. heavy cutters	4.75@5.00
Fair to good light cutters	4.50@4.75
Fair to good canners	4.15@4.40
Poor to fair canners	3.80@4.15
Old, thin, weak shells	3.25@3.75
HEIFERS.	
Choice to prime heifers	7.25@8.25
Good to chice heifers	6.65@7.25
Fair to good heifers	6.00@6.75
Common to fair heifers	5.25@6.00
BULLS.	
Good to choice bolognas	6.15@6.35
Light and medium bolognas	5.75@6.10
Canenr and poor light	5.25@5.60
Fair to good butchers	6.40@6.75
Choice to fancy	6.85@7.50
VEAL CALVES.	
Good to prime vealers	8.50@9.00
Fair to good light vealers	8.25@8.50
Good to choice stock calves	7.00@7.65
Inferior to fair hvy. calves	4.75@6.00
Good to ch. heavy calves	6.25@7.00

MORE HOGS THAN EXPECTED.

Considering corn-planting activities, hog receipts have been liberal this week, the local supply having been within 8,000 of the preceding week's marketing and eleven points having had an aggregate supply during the first five days of the week of 406,000, or only 16,000 less than the like period of the week previous and 43,000 more than a year ago. Shipping demand has fallen off sharply, less than 11,000 hogs having gone East from Chicago during the first five days of the week, against practically 25,000 like period last week. Thursday was the low day of the week with a top of $8.42 and the average price down to $8.33, against an $8.60 top and $8.45 average on the closing day last week. Friday's trade, however, reacted to within about five cents of last week's closing basis, with sales ranging from $7.90 to $8.55 and the bulk going at $8.35 to $8.50.

FAT STEERS TO BE MARKETED.

Packers figure that feed abundance means a heavier summer run of hogs than generally forcasted. Several marketing of fat sows is a certainty and cheap corn means that every possible pound of weight will be piled on their backs before they are started to market. Pigs were farrowed late this year, consequently the big movement of fat sows will be behind the time schedule of former years, but that it will materialize admits of no doubt. Packers are relying on this run to fill their lard kettles, replentish depleated stocks and to enable them to work prices down rather sharply between now and July 1st. Today's closing quotations:

Bulk of sales	$8.35@8.50
Mixed, 215 to 250 lbs	8.25@8.40
Mixed, 170 to 220 lbs	8.35@8.50
Medium weights	8.35@8.45
Light butchers	8.40@8.50
Heavy butchers	8.40@8.45
Light shipping	8.40@8.45
Heavy shipping	8.35@8.45
Heavy packing	8.00@8.25
Rough heavy packing	7.80@8.00
Throwout packing sows	7.50@7.90
Fair to choice light	8.25@8.45
Light-light, 125 to 165 lbs.	8.20@8.35
Pigs, good to fancy	7.25@8.30
Pigs, inferior to fair	6.40@7.20
Boars, poor to good	3.50@4.50
Stags, subject to dockage	8.35@8.30
Government throwouts	4.50@6.20
Government pigs	2.00@3.50

SHEEP VALES BUMPED.

Sheep and lamb values have had a twenty-five to fifty-cent break this week, depressing influences being semi-demoralized eastern dressed mutton markets, a run of over 85,000 here, the second largest week's supply since February, and heavy marketings at Fort Work, Kansas City and St. Louis of Texas grass sheep. Aged sheep of medium and plain class have borne the brunt of the decline, while choice handy weight shorn lambs and the prime high-dressing wooled Colorado lambs have been least affected. Next week's supply is expected to prove lighter and it will need be if further declines are averted, although any market decrease in receipts will probably restore some of the market's lost bloom. Colorado are nearly all in and prime heandy lambs should do a relatively good stunt between now and June 1st. The van guard of the southern spring lamb crop is, however, showing up, and lambs from that source are coming good which will make the growing scarcity of finished dry-fed yearling lambs less actutely felt. Quotations:

SHORN STOCK.	
Lambs, good to prime handy.	$7.25@7.60
Lambs, god to ch. hvy	675.@7.15
Lambs, fair to good handy	6.75@7.15
Lambs, clls	5.25@6.00
Wethers, good to choice	6.00@6.40
Wethers, plain to good	5.50@6.00
Yearlings, fair to choice	6.25@6.85
Ewes, good to choice	5.85@6.25
Ewes, plain to good	5.25@5.85
Ewes, culls	3.50@4.75
Bucks, fair to choice	4.50@5.50
WOOLED STOCK.	
Lambs, good to prime hdy.	8.15@8.65
Lams, fair to good	7.65@8.15
Lambs, fair to ch. heavy	7.50@8.25
Lambs, common to fair	7.40@7.75
Lambs, culls	6.00@7.25
Lambs, feeders and shearers	6.00@7.25
Yearlings, fair to choice	6.75@7.50
Wethers, good to choice	6.50@7.00
Wethers, plain to good	6.00@6.50
Ewes, fair to best	6.00@6.75
Ewes, culls	4.00@5.25
Bucks	5.00@6.00

BLACKSMITHS AND AUTOMOBILES.

To the Editor of The Homestead:

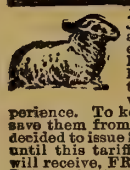
It seems that a reader of this paper who is a blacksmith has taken exceptions to what I wrote about taking automobiles to blacksmiths for repair, possibly, in the brief paragraph, I did not use the space to explain that there are blacksmiths and blacksmiths, and that some of them are fully competent to repair any machine that is brough to them, whether it be an automobile or a drag harrow. Of course, I have no word of objection against the work of any blacksmith. The average smiths works hard for what he earns and often does not get as much as he earns, but the particular point I wished to make—and I still wish it to stick—is the practice now quite common throughout the country of any and all blacksmiths, regardless of their ability, to set themselves up as automobile repairers. I know of any number of great failures and needless expenses piled upon auto owners by blacksmiths who have attempted to work on machines that were needed of repairs, and who knew not what they were doing when they took the machine down in an effort to remedy some supposed wrong. It is the great number of blacksmiths who pretend to know all about automobiles, but who really know very little about them, that I am speaking against. The auto owner cannot afford to let such men experiment at his expense, not only as regards his pocketbook, but his machine as well.

I can remember that a friend of mine once had his auto "go dead." He had not driven a machine long and did not pretend to know anything about it, but a blacksmith was handy, and he knew exactly how to fix it—to hear him tell it. The magneto needed attention, he said, so after the magneto he went. He took it off the machine, put it in such shape that it had to be sent to factory for repairs, when it came back in good shape and was just put on the car by a competent repairman it was found that still the motor would not run. A broken wire under the insulation was found, and this was the only trouble in the first place. I can relate a number of other instances of blacksmiths doing experimental work on autos that has proven mighty costly to the auto owner, such as the breakage of cylinders by rough work, getting carburetors entirely out of adjustment, etc. My friend speaks of blacksmiths making springs, of tempering steel and all that sort of thing. A good blacksmith can do all these things, but how many of the common country town blacksmiths are prepared to make a spring and temper it in oil, as the spring of an auto should be tempered to withstand crystallization for the longest possible time? How many of them really know steel, particularly of the various kinds found in even the medium-priced automobile? Some do, and I am glad that more are learning since the general advent of the auto, but what I would warn against is turning over a thousand or a two thousand dollar car to a blacksmith who really does not know what an auto repairman should know. I would rather they would go to school where the necessary knowledge can be obtained, instead of getting it a little at a time by experimenting on my car, at the rate of fifty cents an hour, and I stand the expense of all missteps.

Henry Hatch.

It is not exactly right that any one should drag the roads without pay, but no one is likely to make a complaint against the wrongdoer who commits the wrongful act.

How Will the Tariff Affect Your Wool?



Just now, as new tariff laws are about to be enacted, wool growers everywhere are asking us what will happen to the price of wool. Market conditions are so uncertain that these men want our advice. They want the benefit of our 47 years experience. To keep our 50,000 customers posted and save them from selling at the wrong time, we have decided to issue Special Market Reports right along, until this tariff agitation is over. Each customer will receive, FREE, a copy of each Special Report. But we aim to print, each time, only as many Reports as are wanted. If you, reader, want our Special Reports, we will be glad to send them to you free of charge, provided you let us know now, in advance. Please don't get the idea that this puts you under obligations to us. You are welcome to this service, whether you sell your wool to the Mills, through us, or whether you sell to wool buyers.

This is certainly a remarkable wool season, and no man with 200 pounds or more should agree to sell his clip until he knows "inside" market conditions.

WRITE! Merely send name on postal. That puts you on mailing list all season. Our next Special Report is just ready for mailing. If you rush your postal in today, you'll get it. (11)

S. SILBERMAN & SONS
Desk 27, 1117 W. 35th St., Chicago, Ill.

Save $50 to $300

I absolutely guarantee to save you $50 to $300 on any Galloway gasoline engine. Made in sizes from 1 3-4 h. p. to 15 h. p. My famous 5 h.p. engine —without an equal on the market—sells for $99.50 for the next 60 days only! Buy now! Same size costs $225 to $300 through your dealer. Think of it! Over 30,000 Galloway engines in use today. All sold on same, liberal, free 90 Day Trial Offer I make you—and all giving satisfaction. Isn't that proof enough?

Get My Catalog and Low Direct Prices

Write me before you buy any other style or make. Get my catalog and low, direct price on the famous Galloway line of frost-proof, water cooled engines. Free Service Department at your disposal. My special 1913 offer will help you get an engine partly or wholly without cost to you. Write today. Do it now.

WILLIAM GALLOWAY COMPANY,
5 Galloway Station, Waterloo, Iowa

Big Doll For You

D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.
302 Popular Bldg., DesMoines, Iowa

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

May 27, P. J. Donohoe, Holbrook, Iowa.
June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.

June 3 Thos. Stanton, Wheaton, Ill.
June 4, John M. Bay, Aledo, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howe & Rees & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.
June 13, Whitsett Bros., Preemption, Ill.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.

Holstein-Friesian Cattle.

Oct. 1 and 2, Holstein Breeder Company Combination sale, Painesville, Ohio, S. T. Wood, manager, Geneva, Ohio.
Oct. 21-22. Woodlawn Farm, Sterling, Ill.
April 29 and 30, T. H. Russell, Geneva, Ohio.

Guernsey Cattle.

May 22, Waukesha County Guernsey Breeders' Association, Frank E. Fox, secretary, Waukesha, Wis.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.

Poland China Swine.

Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, J. W. Pfander & Sons, Clarinda, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 3, W. E. Zimmerman, Neola, Iowa.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 23, Ed. Seckington, North English, Iowa.
Feb. 4, W. H. Cooper, Hedrick, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Block, Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 23th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Some good young Aberdeen Angus bulls are advertised for sale by H. R. Davis, Corning, Iowa, on page 31.

S. A. Wolcott, Gilmore City, Iowa, has two Shetland pony stallions, one two and the other one year old, that he is offering for sale in his advertisement on page 32 of this issue.

A. C. Orme, Nodaway, Iowa, advertises four Chester White fall boars and one July boar for sale on page 29. He also offers ten head of fall sows and he is pricing both boars and sows at $25 each if taken soon.

J. C. Porter, Ogden, Iowa, writes us that his fall pigs which he is now offering for sale are doing well. They are large, growthy, have lots of length, good bone and excellent quality. In order to get them out of the way for the crop of spring pigs, Mr. Porter is making some exceedingly low prices to quick buyers.

F. Bowman, Eldora, Iowa, recently advertised that he had for sale two Morgan stallions. Under date of May 9th he writes: "I sold one of the colts to Henry F. Townsend, Wilton Junction, Iowa, and the other to W. H. McClune, Dolliver, Iowa. I received inquiries from twenty-four parties in regard to them and from several different states."

In an advertisement on page 29 H. D. Clore presents the information that he has for sale a number of double standard Polled Hereford bulls. They are good yearlings sired by Polled King Le Roy, one of the best bulls of the breed. They are of the beefy type and have quality enough to suit discriminating buyers. Address inquiries to H. D. Clore, Norwood, Iowa.

L. L. De Young, Sheldon, Iowa, breeds Duroc Jersey hogs and advertises fall boars on page 29. He writes us that these boars are not fat, but that they are coming right along and in shape to do well for buyers. Most of them are sired by Crimson Advance 120601 and their dams are all gilt-edged breeders. He has also for sale a number of gilts and a few sows bred for fall litters. Mention this paper when writing for further information.

The advertisement of Joseph H. Dehner, Cascade, Iowa, offering some choice one and two-year-old Short-horn bulls for sale appears on page 30 of this issue. Mr. Dehner writes: "I have been breeding Short-horns for twenty-one years and never had a better lot of bulls than now. They belong to Generosity, Miss Ramsden, Mary Ann and Fashion families. They are sired by Beauty Baron 25081 and Victoria's Duke 351736. I will price them so as to move them."

Menaugh Bros., Gardner, Ill., are offering for sale several choice Polled Durham bulls as well as Duroc Jersey boars and gilts of any age. This farm can please you in either cattle or hogs of extra quality at reasonable prices. See page 31.

W. E. Prichard & Sons, Ottawa, Ill., report the sale to Alfred E. White, Bangor, Wis., of the imported Percheron stallion Konscrit. While not yet three years old this stallion weighed right at a ton at shipment, and is one of the big growthy kind, with the best of feet and legs. They consider him a very valuable horse in every way. Prichard & Sons still have some excellent bargains in Percheron stallions.

Gus Davisson, West Liberty, Iowa, is offering for sale four Duroc Jersey boars of August farrow that are of the heavy boned, lengthy kind and they are priced where any farmer can use them. These boars are sired by Col. Tyler, by W. K.'s Model, dam Miss Col. 2d, by W. T. Col. They are out of extra well-bred sows and for $30 each are bargains. See page 29 and write Mr. Davisson for any information you want mentioning The Homestead.

C. F. Adams, Owasa, Iowa, owner of one of the best herds of big-type Poland Chinas in the corn belt has over 100 spring pigs sired by some of the most noted boars of the breed. Mr. Adams has a herd of sows for size and smoothness and quality that are hard to equal. Mr. Adams will start an advertisement in The Homestead shortly and at that time we will give our readers more information regarding the good Poland Chinas to be found in his herd.

J. H. Nissen, Lyons, Iowa, the Hampshire breeder who won many important prizes last year at the leading state fairs, has a fine lot of spring pigs that will be in good shape for the trade this fall. Mr. Nissen has six July and August boars and some gilts of the same age, all of which are sired by Joe, first at the International, 1912, now owned by C. A. Brook, Washington, Iowa, and we want to say that these boars and gilts are the equal of anything in a long time and there is no question but what Joe is going to prove a great sire of show hogs.

Any breeder of Jersey cattle or farmer who wants to improve his dairy herd will be interested in the advertisement of the Mount Pleasant Jersey Farm on page 16 offering for sale a very fine two-months-old Jersey bull calf for the first check of $50. The animal is recorded and pedigree will be furnished upon application. He traces directly to Pogis 9th of Hood Farm and to Ch. Flying Fox. His dam is an excellent milker with a record of 500 pounds of butter. If further information be required write to Mount Pleasant Jersey Farm, Mount Pleasant, Iowa.

John Krebs, Riverside, Iowa, a Duroc breeder who has been making rapid strides in the improvement of his herd during the past three years has 110 fine pigs sired by Joe's Col., one of the very best sons of Proud Col. The pigs sired by this boar are showing up in fine shape and the writer believes Joe's Col. will prove equally as good a breeder as his noted sire. Mr. Krebs has two litters by Wonder's Model, the Iowa State Fair winner of 1912, and one litter by I Am A Crimson Wonder 2d, the great breeding boar owned by Swan & Ellis, Indianola, Iowa. Mr. Krebs will start an advertisement in this journal shortly when we will have more to say of his herd.

Carl A. Rosenfeld, Kelley, Iowa, has this season a fairly good crop of Poland China pigs and one which promises to develop into something fully as good as the sale consignment which was so remarkably successful last February. Mr. Rosenfeld has been unusually successful in the selection of breeding stock. He has used judgment in the strains involved and has had the faculty of retaining animals of the proper conformity that carry also quality and finish. The Rosenfeld farm is also the home of a herd of Aberdeen Angus cattle that would surprise many breeders of greater pretension. He has very quietly been gathering up and growing a herd which now produces twenty-five or thirty calves and they are a handsome lot. The herd will be represented at the Iowa State Fair this fall and the representation will be one that will wake up competition to the fact that Rosenfeld is in the ring. In particular he has one young bull that is going to push hard for high honors. A fat steer is also coming along in a gratifying way and will no doubt make a stir both at Des Moines and Chicago. Additional facts with reference to breeding will be given in later issues of this paper.

A. D. Freed, Kelley, Iowa, breeds Duroc Jersey hogs, and although he was one of those who last year suffered seriously from the attacks of disease, he has now a bunch of good pigs from matured sires and dams that make excellent promise for the future. They are the get of Royal Muncie and Research. Royal Muncie is a magnificent fellow by Muncie Chief. His dam was a daughter of the noted show sow, Violet Blossom. Research was by Muncie Chief and out of an Ohio Chief dam. The latter hog Mr. Freed would part with to someone who could appreciate a sire of his merit. Research is a big hog. He has a strong, widely arched back that would be striking in any show ring. He stands well on his feet, has big bone and every evidence of vitality and forceful breeding merit. He is just about two years old. As a herd-boar proposition this hog cannot well be beaten and while he might possibly not be classed as a show hog, he would certainly be able to take care of himself in any ordinary company. Mr. Freed will be glad to give our readers any further information that may be required concerning this animal. He has a right in any herd and many litters of his pigs may be seen on the farm.

The 1914 annual sale of Holstein cattle at the Idle Hour Place Farm of T. H. Russell, Geneva, Ohio, will be held April 29th and 30th, when 175 head will be offered to the public.

Can't Sag gates are built for use and ease of operation. They will turn any stock, can be handled by a small boy and are so cheap that no farmer should be without them. Read the advertisement carefully and write for their catalog and their prepaid offer. Address A. V. Rowe, president Rowe Mfg. Co., 496 Adams St., Galesburg, Ill. See page 23.

In an advertisement on page 20 Clark, the improved corn husker man, offers to send five samples of huskers, postpaid, at the low rate of $1.10. The Clark line includes an ordinary husking pin, a palm hook, a half glove husker, thumb hook and several other varieties, which include about all there is in the way of betterment of the husking peg idea. Send orders to Clark, 54 W. Lake St., Chicago, Ill.

The question of economical buying is one which is responsible for savings in most cases. In an announcement on page 15 the statement is made that in the ordinary purchase of lumber five middlemen obtain profits amounting to from 40 to 60 per cent of the cost. The Hewitt-Lea-Funck Company in their advertisement advise our readers that they are prepared to furnish lumber, mill work and Seattle silos direct from the forest with no middleman intervention and at a cost which eliminates all their profits. The Seattle silo, by the way, is a good one. It is made from clear fir, than which there is no better silo timber, has patent swinging, detachable doors and all the latest improvements. The manufacturers ask the privilege of quoting prices delivered at the railroad station of the buyer. They also want to give figures on their lumber and mill work. These may be secured by filling out the coupon in the advertisement and forwarding to the Hewitt-Lea-Funck Co., 480 Union Ave., Seattle, Wash.

Holstein Sale.

One of the big fall events in Holstein-Friesian cattle circles will be a combination sale at Painesville, Ohio, October 1st and 2d under the management of the Holstein Breeder Company, recently established at Geneva, Ohio. This concern which was organized for the purpose of conducting Holstein sales, compiling and printing catalogs, tabulating pedigrees, etc., is under the management of S. T. Wood, one of the best posted experts in the country, who knows practically all there is to know regarding Holsteins, and it goes without saying that the fall sale under his management will be a complete success in every way. If there is any information regarding Holstein cattle that is desired by any reader of this paper we advise them to write to Mr. Wood at Geneva, Ohio, and the information will be forthcoming.

James' Sensational Pig Bargain.

On page 29 J. O. James, Braddyville, Iowa, begins his advertisement announcing his sensational pig bargain campaign. He is now booking orders up to 100 head of spring pigs of both sexes from his noted big-type Poland China herd, which is one of the most noted in western Iowa. These pigs are sired by the half-ton boar, Big Orange, Ott's Big Orange, who weighed 700 pounds at nineteen months old, Big Sensation, Big Orange's King, A Wonder Giant and Gritter's Best. These pigs are out of 700 and 800-pound sows sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. Some of the most sensational herd boars throughout the East and the West today are out of the James herd and as he says in his announcement you can save from $100 to $150 by buying these pigs now. He is pricing these pigs at $25 to $35. He is booking orders for pigs of both sexes and the sooner you send your order the better. Send your description of pig at once, accompanied by draft and he will make the selection and he guarantees description as represented. Here is the opportunity for you to buy and save money. Write J. O. James at once as the early bird always catches the worm. When writing him kindly mention The Homestead.

Double Champion Duroc Jersey Blood.

A representative of The Homestead last week called on S. P. Freed, Ames, Iowa, whose herd of Duroc Jersey hogs has nearly every year shown its merit by winning championship or other prominent prizes at the Iowa State Fair. Mr. Freed still maintains at the head of his herd Freed's Col., a hog which has to his credit championship and grand championship honors at the Iowa State Fair and which has also developed into a breeder of more than ordinary prepotency. Freed's Col. is a healthy, thrifty, husky fellow now and really better than ever before. Mr. Freed has also in service Wonderful Crimson Again, a son of the grand champion Crimson Wonder Again and carrying, therefore, a strain of blood which has been dominant in many state fair champion winners. Mr. Freed's crop of pigs, while lacking perhaps a little from his usual number, is of good character and needs only time for splendid development. The dams of these pigs are also of choice breeding. A number of them are by Freed's Col. and quite a number of the other sows are by Manley Orion, a hog of great size that had to his credit five successive years as a prize winner at the Iowa State Fair. At the present time Mr. Freed has on hand and for sale several extra good fall boars, three or four of them by Freed's Col. He has also a fall boar by Golden Model 2d that he would dispose of to an appreciative buyer. This fellow has some show yard promise as he is strong at those points which made his sire a noted character. Any farmer or breeder who is interested in fall boars would do well to write to S. P. Freed, Ames, Iowa, for further information.

The Jack Rabbit Car.

For twenty years the good, old Apperson Jack Rabbit car has been in service and in all that time it has rendered absolute satisfaction to users. This car is advertised on page 21 as the life-time car, and that is what car buyers who want service are looking for. It is withal a good looker with its durability and other good qualities. Read the advertisement carefully and then write for additional particulars to Apperson Bros. Auto Co., 319 Main St., Kokomo, Ind.

Aberdeen Angus Bull Sale.

G. W. Dalgetty announces in an advertisement on page 29 that on May 17th at Corning, Iowa, he will make a public sale to include six choice young Aberdeen Angus bulls and one herd bull. The latter is Coldbrook Eric 138785, a proven breeder of excellent character and a desirable bull for anyone. The young bulls are sired by Coldbrook Eric and belong to the Nosegay, Queen Mother and other families. They are coming yearlings. Don't forget that the sale takes place on next Saturday, May 17th.

Bay's Short-horn Sale.

Wednesday, June 4th, John M. Bay will make his first public sale offering from his Sunny Slope herd of Short-horns at Aledo, Ill. Forty head, thirty females and ten bulls have been cataloged for this event, and the cattle are a class that will please the buyer. Mr. Bay is a thoroughly capable cattleman of many years experience, has been a judicious buyer and in the coming sale will present a lot of cattle that will be a credit to him. One-half the offering is of straight Scotch breeding and the balance Scotch topped in the best American foundations. The sale will be held in Aledo, so it will be easy of access and further particulars will be given next week. Application for catalog should be filed with John M. Bay, Aledo, Ill. Kindly mention The Homestead when you write.

O. C. Cowel's Polands.

A Poland China breeder that is assembling a lot of good stuff is O. C. Cowel, Hebron, Neb. Mr. Cowel the past season purchased some of the very top sows sold in Nebraska and his herd was already made up of choice stuff. One sow added to the herd was a daughter of the great Centennial and was bred to Big Victor when purchased. Her dam was one of the very best of the Higgin's herd and was sired by Blue Valley Exception. Another big sow and one of the tops of Kuhl's sale was Bess by Chieftian by Chief Tec. 4th and out of F.'s Giantess by Big Price. Mr. Cowel has a herd boar that is sure the making of a big one. He is O'Columbus by the many times champion, Columbus, and out of the grand breeding sow Peter's Lady by Peter the Great by Big Bone. This line of breeding should show up something very choice and there is no line of stuff any bigger.

Wigstone Bros.' Big-Type Polands.

Among the many good big-type Poland China herds today in the West, one that stands out prominently among the rest, is that of Wigstone Bros., Stanton, Iowa. For many years these gentlemen have been building up a strictly big-type herd, and two years ago they showed at the Iowa State Fair where they made a sensational killing with their big hogs. Theirs was one of the first of the big-type herds shown at Des Moines and they came away with their share of the ribbons. The boar at the head of their herd at that time was Prospector 2d, and he stood at the head of their winning herd at Des Moines. He sired them some splendid things and many good herd boars today in well-known herds are sired by him. Later came Big Jones 3d, a Mouw-bred boar, and he also proved a great breeding boar. Last fall they secured at a long price the noted boar, Chief Price Again 2d, that won third prize at Des Moines and he weighed 1,027 pounds at that show. He is one of the largest and best boars today in the West, and he is proving a splendid sire. He is a son of old Chief Price Again and he is out of Lady Jumbo, by old Long Chief, and he therefore descends from the most noted large--type breeding on both sire and dam side. They have 100 head of spring pigs this year sired by Chief Price Again 2d, Big Jones 3d and W.'s Wonder. They look well at this time of the year, have all kinds of size and if nothing happens they are going to be right for the trade the coming fall. Among their many good litters is one of seven pigs out of Mammoth Lady that were farrowed January 25th. This sow was in their second-prize herd at Des Moines in 1911 and she is not only the largest, but she is one of the best sows in their herd. There are three boars and four sows in this litter and they were sired by Big Jones 3d. The best young sow on the farm is out of this sow and no one has a better one. These pigs are large and are splendid prospects for the fall trade. Giantess B., a daughter of old Major Nelson, out of Giantess A., fourth-prize Iowa State Fair sow, has twelve good pigs by Chief Price Again 2d. Another splendid litter by Chief Price Again 2d out of Mastodon Lady 2d, are looking fine. This is an April litter and she is raising eight and while they are not as early as some of the others, they are nevertheless very good. They have other splendid litters and a lot of good pigs, and they are going to have a lot of good things for the trade the coming season. They will make a sale October 11th, at which time they will offer a great lot of boars and some of their best sows, and they expect to make this one of the greatest offerings that have ever come from their herd. When visiting western Iowa herds this summer breeders should make it a point to see the Wigstone Bros.' herd

and we will assure you you will see one of the best herds in western Iowa.

Insull Buys Trumans' Hackneys.

Manager J. G. Truman of the Pioneer Stud Farm, Bushnell, Ill., writes: "We are pleased to report the sale to Samuel Insull, Hawthorn Farm, Lake county, Ill., of the imported Hackney stallion Tollington, and the imported Hackney mares, Nene Lady Gay, Lyndhurst Peggy and Sthoreen Bawn, together with an outstanding young imported Hackney pony stallion. Tollington will be remembered as one of the greatest Hackney stallions in America, having won first and champion prizes at the leading state fairs and shows of the West. Nene Lady Gay has also been a very noted prize winner, having won first and champion prizes at practically the same shows as Tollington. She has the same sire as Tollington in Middleton King, a horse that was imported to this country and shipped back to England, where he is proving one of the greatest sires in that country. Sthoreen Bawn will be remembered as the black and white pony shown by us for several years. She is also a noted prize winner on both sides of the ocean and is considered one of the most beautiful specimens of the Hackney pony in the country today. Lyndhurst Peggy was shown by us at the last International. She was shown with great success in harness classes at the Olympia (London) show and is an outstanding high-class pony. The breeders in the vicinity of Lake Forest and Libertyville are to be congratulated upon having Tollington at their disposal." See page 32.

John Lawson's Poland Chinas.

The other day we visited the herd of John B. Lawson, Clarinda, Iowa, and we saw there one of the best crops of spring pigs that he has ever had at this season of the year. He has 154 head and they are sired by old Long King's Equal, the boar that weighed 965 pounds on the scales in the presence of forty breeders a year or more ago, and A Wonder's Jumbo. It is unnecessary to say much about the former boar as everybody knows of him, but we want to say a word for the latter hog at this time. He is a son of old A Wonder and he is out of that grand brood sow, Lady Jumbo 1st. This boar has made a remarkable improvement the past year, and he now takes his place among the right top herd boars in western Iowa. His pigs have always been good, both in the Lawson herd and in other herds where sows have gone, and it now looks like Mr. Lawson is going to have another great breeding boar in this hog. One of the best sows he has is a full sister to this boar and she has a splendid litter by Long King's Equal. He has a litter of ten by old A Wonder out of Nelson Superior 4th that are looking good and he is going to make these go some before the season is ended. He has eight head of A Wonder sows in his herd, and most of these have litters this spring by Long King's Equal and here is a cross that has always proved out right. A selection of a spring boar from some of these matings would be the right thing now for the man that is going to want to buy a boar this fall. You can buy them cheaper now than you can later in the season. He has an August boar now on the place that he is growing out for himself and he is a good one. He is sired by Long King's Equal and he is out of an A Wonder dam, and he is bred practically the same as that sensational young boar, King of Wonders, in the Pfander herd. Mr. Lawson has a great outlay for this season and he will have something to say to readers of this paper a little later in the season. If you write him about a boar pig now kindly mention this paper.

Pfander's Poland Chinas.

Last week we visited the herd of J. W. Pfander & Sons, Clarinda, Iowa, and found them caring for 120 spring pigs together with a lot of fall sows. They have three or four good A. Wonder fall boars on hand and these are the only things they are caring to sell just now. Their spring crop is sired by old A. Wonder, King of Wonders, Big Ben, Big Jumbo 2d and Big Defender. That young boar, King of Wonders, is one of the really great young big-type boars of the breed today. If you do not believe it just make it a point to visit the Pfander herd and you will say he is one of the greatest young boars you have ever seen. He weighed 622 pounds at fourteen months and he should make one of the largest boars of the breed. While looking him over and at the same time get your eye on Big Ben and you will say he is some boar too. They have a great litter of nine by old A Wonder and these are out of Lady Giantess 2d by Long King. They will sell five of the boars in their August sale and they will make sale toppers. Another great litter they have is sired by Big Ben and they are out of Mammoth Giantess Equal, one of the largest and one of the greatest big-type sows now living. The dam of King of Wonders, that great young boar referred to above. This litter came February 10th and they will sell two of her boars and one of her sows in their August sale. They certainly ought be some competition on these pigs at that time. This sow weighed 700 pounds at two years of age. They have other very choice litters that they are growing out well, and they will have a choice offering for their August sale. They just received a letter from Richard Burns, Saxon, Mo., saying that the sow Pawnee Belle that was No. 2 of last years sale, farrowed him ten pigs and is raising eight and he says this is the best litter he ever saw in any herd. This sow sold for $330 and was the top of their sale and they are pleased to learn that she has done so well for him. Just another word about King of Wonders and that is his pigs are showing up fine and he is going to make an excellent breeding boar. We will tell you more about their herd later in the season, and remember their August sale when the tops of these are going to be sold.

McCandless' Hampshires.

Anyone wanting a fall boar should write E. S. McCandless, Thurman, Iowa, as he has four good fall boars that he is offering for sale and they are all sired by Signet, the first-prize boar pig at the International in 1910. He will sell these at any time. His spring pigs are all sired by Signet and Pat Brady, the latter being a Messenger-bred boar. Later in the season he will have some good spring boars to offer the trade and also some sows. If you want one of these boars write him at once and kindly mention The Homestead.

Martin's Scotch Collies.

One of the greatest aids to the modern farmer and stockman is a good Scotch Collie. It is a dog of this kind that will perform quickly and intelligently hundreds of little chores about the farm or ranch that would otherwise place an increased burden on the owner. This is an age of eliminating unnecessary cost of operation to any businss enterprise and a factor of no small importance along this line is the good Collie. Stockmen that are making a success of the business would consider it sheer folly to keep other than the best horses, cattle or hogs, yet they are content to keep the worst kind of a cur dog about the place. Interested parties will find good Collies on the farm of A. A. Martin & Son, R. F. D. 4, Box 107, Lincoln, Neb. Mention The Homestead when you write.

Williams Bros.' Poland Chinas.

One of the firms that is right this spring with a good crop of pigs is Williams Bros., Villisca, Iowa, and they now have 300 head on hand. Many of these are sired by old Pawnee Nelson and others by their Sampson boar. Their pigs are doing well and the boys are going to have something out of the ordinary for their fall trade. They have several litters by the young boars they are now using, so that they have pigs that are not related to those they have sold befo e. Later in the season we will have more to say about the Williams Bros.' herd, and we will now say to those who may visit southern Iowa herds that they should not overlook the Williams Bros., as they will show you some of the best boars and as good a bunch of brood sows as you will find in the state.

Geo. Hassler & Son's Red Polls.

It is no small honor to anyone to breed up a good herd of any kind of live stock, but when it comes to building up as good a herd of cattle as is the herd of Red Polls owned by Geo. Hassler & Son, Holbrook, Neb., we must say the builders are not very plentiful. These gentlemen have been showing these cattle the past three or four years and have been persistent winners at all the state fairs of the West. The great breeding and show bull, Teddy's Best, is doing service in the herd today. He has sired much of the best of this and other herds and is a winner of champion honors himself. One of the best yearling bulls the writer has seen in a long time is in this herd. He is by Teddy's Best and out of the great breeding cow, Juniata. This bull will probably be seen at the fair this fall and he is going to make some one some mighty interesting competition for the head of the yearling class. A full brother to him will be seen in the calf class. A few very choice bulls and a limited number of females are for sale. When you write kindly mention The Homestead.

A Necessary Household Article.

The Enterprise meat and food chopper has been advertised in these columns from time to time for many years. It has merits which justify its use in every farm kitchen. The engraving which appears herewith shows an Enterprise chopper as used in the preparation of New York hash. This hash is made as follows: To every cupful of chopped cooked meat, take two cupfuls of cold boiled potatoes, chopped medium fine; one-half cupful of boiling water or stock; two tablespoonfuls of butter; season to taste. Put the water and butter over the fire and when the water is boiling again, add the meat and potatoes. Use an iron saucepan or

spider. The difficulty of making good hash lies in the cooking, for it must be stirred, yet not too much, or it will be pasty. The water should boil away, yet the hash must not be dry, nor yet watery. Let it cook, stirring occasionally, until there is a coating on the bottom of the pan from which the hash can be freed without sticking. The recipe is taken from a new edition of "The Enterprising Housekeeper," a book which includes more than 200 recipes of like value. The book is ordinarily sold at twenty-five cents, but readers of this paper may obtain it by sending four cents to pay postage. Address all requests to Enterprise Mfg. Co., Philadelphia, Pa.

Harris & Sons Sell Herefords October 22d.

O. Harris & Sons, Harris, Mo., claim October 22d for their annual sale of Hereford cattle. These gentlemen will this year put up an offering superior to any they have ever made. Their noted show bulls, sires of the young herds that were undefeated in 1912 are the sires of a string of cattle Harris & Sons are pleased to say are the best they have ever produced, and in this sale they will sell cattle bred as were the winners.

High-Class Fall Boars.

On page 29 A. H. Windom, Nodaway, Iowa, begins an advertisement for twelve high-class Poland China fall boars and these are good enough to head any herd. In fact, these are among the best Poland China fall boars we have seen on our travels this season and they are all sired by the 950-pound boar, Pawnee Nelson. Few boars in the West have a better reputation as individuals or as sires than has Pawnee Nelson. This boar is a son of old Pawnee Lad and he is out of that famous old brood sow, Anna Price II. He has been one of the remarkable breeding boars of the West and these fall boars that Mr. Windom is offering are good enough to go anywhere. If you want one he is pricing them at $40 and $50 and the first man that gets his checks there will get the pick. Write him at once and mention The Homestead.

Entries Wanted for Angus Sale.

M. A. Judy, West Lebanon, Ind., wants some more entries for the combination sale of Aberdeen Angus cattle that he proposes to hold at Chicago, June 18th. There could be no better time than the present to sell cattle. The successful outcome of the spring bull sales held recently under the management of the Aberdeen Angus Association gave striking evidence of the strong demand for this great beef breed, and those with a surplus of cattle to sell will do well to correspond with Mr. Judy who has wide experience both as a breeder and a sale manager. He reports that he has nearly enough cattle to fill the sale list, but would like a few more entries. Some of the best breeders in the country are contributing cattle to this sale. Mr. Judy will be glad to send full particulars to those who will write him at once at West Lebanon, Ind.

Dispersion of Sayer Short-horn.

As previously announced in these columns the entire herd of Short-horns owned by George J. Sayer, McHenry, Ill., has been purchased by Thos. Stanton, who will offer fifty head of the tops at public sale at his Sittyton Grove Stock Farm, Wheaton, Ill., Friday, June 3d. In many respects this will be one of the most remarkable lot of Short-horns offered at a public sale in years. Six bulls are listed, including the International champion, Roan Sultan and White Star, in addition to which Mr. Stanton has decided to sell his bull Browndale Sultan. The female partion of the offering includes the show cows, Fair Start, with bull calf at foot by Roan Sultan; Queen Mildred, the two-year-old show heifer Sayer's Georgia, by Roan Sultan 78th; Duchess of Gloster by True Cumberland, Sittyton Fashion by Leader of Fashion, the senior yearling Sittyton Anna and some junior yearlings. In addition there will be the top breeding cows of the Sayer herd, six choicely bred Augustas, one to six years old. Fifteen cows will sell with calves at foot. More particulars regarding this sale will appear in the next issue. In the meantime write for a copy of the catalog to Thos. Stanton, Wheaton, Ill., mentioning The Homestead.

Windom's Poland Chinas.

One of Iowa's breeders who has a lot of good pigs this spring is A. H. Windom, Nodaway, and the most of these are sired by old Pawnee Nelson and Progression, the latter boar being a son of old Panorama, a boar that won renown in the West. Quite a few of these pigs are out of Pawnee Nelson sows, in fact, the most of those that are sired by Progression. Mr. Windom has a new boar this spring that he is growing out for his own use in case that the others go wrong or get too old to breed. He calls him Windom's A Wonder and he is a son of Fesenmeyer's old A Wonder and he is out of a grandam of Ellerbroeck's A Wonder on the dam's side. He is, therefore, a line-bred A Wonder and he has all the characteristics of a big boar when matured. He bought this boar from Art Stanley, Sheridan, Mo., and he in turn bought a sow bred from Henry Fesenmeyer. Mr. Windom will make a public sale of forty head of boars and sows on August 19th, and he will list quite a number of his very best Pawnee Nelson boars and sows for this occasion. Just now he is offering twelve head of good fall boars for sale and these are all sired by Pawnee Nelson. Some of them are out of old Columbia, a Harvey Johnson-bred sow, others are out of Giantess May, a Giantess sow, and others are out of a Mouw-bred sow and a Memorandum sow. Another good fall boar is sired by Progression and he is out of a Mayflower sow. Any of these boars are good enough to head herds and he is pricing them at $40 and $50. When writing him kindly mention The Homestead.

Choice Shetland Ponies.

One of the best lots of Shetland ponies that the writer has seen for some little time we saw a few days ago on the farm of C. S. Bratt, Arapahoe, Neb. An imported stallion that is thirty-four inches high and weighs 2,250 pounds is one of the very best stallions we have seen in a long time. He is good and thick and with extra good hocks and feet. He is a breeder of the right sort as shown by his colts now on the place. One extra good stallion is by this imported horse and out of one of the best thirty-eight-inch mares anywhere in the country. He is priced well worth the money as are several others. For full prices address mentioning this paper, C. S. Bratt, Arapahoe, Neb.

Stallion Bargains at Watseka.

Oltmanns Bros., Watseka, Ill., still have some outstanding Percheron and Belgian stallions in their barns, and buyers who have not yet secured their horses for the coming season will do well to look over what they are offering. These horses all came over early in the winter, so that they are thorough acclimated and conditioned, are the rugged, growthy, cordy legged kind, bred in the best blood known to the breed, and will be priced at figures that should move them at once. Oltmanns Bros. have a reputation for giving customers excellent values for their money, and always live up to the letter of their agreement. Get in touch with them at once if you are in the market for a reliable horse. Their advertisement will be found in next week's issue.

Dunlap's Mule-foot Hogs.

Mr. John H. Dunlap, Williamsport, Ohio, owner of the Ohio Blue Ribbon herd, was not affected by the recent disastrous flood in Ohio which caused so much loss of of life and property. He reports a big demand for mule-foot hogs. While this breed has not been before the public as long as the other breeds, it has been in existence for centuries, and is very prepotent, as well as being able to resist disease. Mr. Dunlap reports tests made in many different states with stock from his herd, in which the mule-foots lived and the other hogs were lost. Mr. Dunlap has always been able to sell all the good mule-foots he can raise. He now has over sixty brood sows on his farms that farrow twice a year. These sows were selected on account of their size, hardiness, and because they have farrowed and raised large litters. Many of the spring pigs are now weaned, and are being shipped nearly every day all over the land to form new herds. There are ten big prize-winning herd boars in the Ohio Blue Ribbon herd, and anyone wanting to make a start with this great breed which Mr. Dunlap has so successfully brought to the notice of the swine breeders of the country, can do so without getting inbred stock. No other breeder in the land has made such a record at the state fairs as has Mr. Dunlap, who has won nearly every prize he has ever compete for in the show ring.

McClarnon's Poland Chinas.

The spring crop of pigs looks good this season on the farm of L. R. McClarnon, Braddyville, Iowa, and he has 135 head. If nothing goes wrong he will be in right for the fall trade and he will have a right choice offering for his September sale. The McClarnon herd has long since been regarded as one of the best in southern Iowa and he has sent out a lot of good hogs from his herd. His present crop is mostly sired by Big Orange and Colossal. He has a lot of good fall sows on the place and these are being grown out for future sales. Mr. McClarnon has a high-class lot of brood sows and they are doing well by him this spring. He has a good litter by old Big Orange and these are out of a Peter Mouw sow. The dam of this litter was the top gilt in Mouw's last sale and the pigs should be sought after by breeders later on. A litter of eleven by Colossal out of a Big Orange sow is among the oldest pigs he has. These came January 14th and are doing fine. He has three good litters by Colossal out of A Wonder sows and three good Colossal litters out of daughters of Big King. He has a litter of eleven by Colossal out of Beauty's Jumbo, one of his largest and best sows, and he expects to make them good by fall. Mr. McClarnon will make a September sale at which time he will offer the tops of his herd and you can put it down he will have something good to offer the boys. Later in the season we will tell you more about his herd.

The Holbrook Angus Sale.

P. J. Donohoe, Holbrook, Iowa, and Wm. Cash, Williamsburg, Iowa, will hold a sale of sixty high-class Aberdeen Angus cattle at the Holbrook sale pavilion on May 27th. There will be about ten bulls and fifty cows and heifers. This is a very important event to Aberdeen Angus breeders as the men who are making the sale have enviable reputations as breeders and feeders of the highest type of Aberdeen Angus. The high average of prices that bulls have been bringing this year, both publicly and privately, should serve to make high-class females bring good prices during the next few years. The best indication of continued high prices in pure-bred beef cattle is the fact that there is such a strong demand for good bulls at prices which prove profitable to the breeders. No better bred lot of cattle could be gotten together than those to be sold at Holbrook on May 27th. Blackbirds, Ericas, Queen Mothers and Prides make up the offering. The sires represented are many of the greatest bulls the breed has produced in recent years such as Black Woodlawn, Prince Ito, Erwin C., Black King of Homedale, Black King of Woodlawn and many others that are well known as great sires and show bulls. Just as this season of the year is a most opportune time to buy breeding cattle as pastures are at their best and cattle require very little care until snow flies This offering is in excellent condition for their future usefulness as breeders. Many are the prize winners that have been produced in the vicinity of Holbrook and to the man who is just starting in the pure-bred Aberdeen Angus business we can strongly recommend this sale as an excellent place to buy high-class females for a founda-

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pound on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25 to $35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

tion of a good herd. When you buy the class of cattle to be sold in this sale you will not need to start in the business the second time in order to get what the public demands, namely, good cattle and good pedigree. See the advertisement on page 30 and arrange to attend the sale. Write Mr. Donohoe for a catalog, mentioning The Homestead.

Mrs. Stickel Iceless Refrigerators.

Some time ago the editor of the Home Department of this paper offered a prize for the best article on a household necessity. The reward was given to Mrs. Mary J. M. Stickel, who wrote with reference to the iceless refrigerator she was using in her home. We have since learned this iceless refrigerator is the one manufacturered by the Iceless Refrigerator Company, 6981 W. Ohio St., Chicago, Ill. An advertisement for this company appears on page 25 of this issue. We would suggest that our readers who want such convenience as was described by Mrs. Stickel look up the advertisement and write for a catalog. We can recommend this machine to be made of good material and the company to be honest and reliable.

Killing Lice and Mites.

Now that warm weather is approaching lice and mites may certainly be looked for with their usual devastating effect on chickens. Science and investigation have been busy in the preparation of lice killers, with the effect that some highly effective preparations are now in the market. The latest of these is Licecil Compound, an advertisement of which will be found on page 10. This is simplicity itself in its application, as all that is necessary is to hang the bottle in the coop, when the vapors leaving it settle in a misty form, penetrating feathers, cracks and crevices and proving sure death to lice and mites. There is no spraying, painting or dusting. A free circular which tells all about it may be obtained by writing to Metzger Company, No. 79, Quincy, Ill.

Fesenmeyer and His A. Wonders.

The other day when we visited the herd of Henry Fesenmeyer, Clarinda, Iowa, and he had 110 spring pigs, and nearly every one of them wa ssired by old A. Wonder and Big Joe. Old A. Wonder is possibly the best advertised big-type Poland China boar living today and he certainly has been a great boar in his time and he looks good for many years to come yet. That boar Big Joe is a comer and he is as large as any of them for his age and we never saw a big-type hog that stood on better feet. His get in the last Fesenmeyer sale were of the sensational order and the way breeders went after them was a caution. Old A. Wonder weighed 984 pounds last winter the day of his sale and that is certainly some boar. He was weighed in the presence of the breeders attending the sale, and it is seldom indeed that you see a boar tip the scales at that weight. Mr. Fesenmeyer is going to make a sale on August 12th, at which time he is going to sell his very best boars and at the same time he will sell a number of A. Wonder sows bred to Big Joe and vice versa. That he will have an offering that is worth going to see you will all admit, and he never fails to put them up right when sale time rolls around. His last winter's sale was the sensational sale of the winter, and he says his forthcoming offering will be another that will make all the boys sit up and take notice. Just put it down that you are going to attend his sale on August 12th, and if you want to get into the bandwagon buy one of those A. Wonder sows bred to Big Joe, or buy a Big Joe sow bred to A. Wonder. He just received a letter from a man while we were there in which he told of a Big Joe litter that he had and he thought them the best in his state. So you can see his Big Joe boar is coming right to the front as one of the great breeding boars in western Iowa.

THE HORSE HOLDS ITS OWN.

James King, dealer in horses, who started in life without a penny and who today conducts one of the largest business of its kind in the country, believes Charles Dickens and the author of "David Harum" did a grave injustice to men of his calling, says the Baltimore Sun.

"There is no place that I know of where a man can go and get fairer treatment than at a horse auction," Mr. King says. "All the old-time tricks and methods that the public has been led to believe by such writers as Dickens are looked upon as jokes by the present-day dealer in horses. There is no class of men who decorate their goods less than dealers in horses. Their goods are sold in the rough with all the good or bad points described and pointed out the time of sale.

"The motor car has not injured one feature of the horse inasmuch as the coach horse business was never a very profitable one. Makers of coaches and coach harness have been hit hard, but they have gone into the motor car business in most cases. I was in New York the other day and I noticed at least 15 per cent more coach horses on Fifth Avenue than I have seen in the last five years, and I am a regular visitor there.

"I am satisfied, however, that the coach horse will never come back to where he was in numbers. When I say coach horse I mean a coach horse and all that goes with it, not a bakery or milk wagon horse, or what should have been a street car horse, with its tail cut off. The coach horse is scarcer and is bringing more money today than ever before.

"I am not alarmed about the motor truck, because I look upon it as an assistance to the horse. When I was a boy all work was done by hand, now it is most all done by machinery, and farm labor is harder to get and more expensive than ever.

"The steamship, the engine, the telegraph and the telephone have not reduced the necessity for help one iota. To the contrary, it has increased the demand. So it is with the horse. He is constantly on the increase for the number of uses that are arising. Some folks lead themselves to believe that the horse is passing. That's true, he is passing to the front every day.

"Here's my toast to that noblest of animals—the horse:

Here's to that bundle of sentient nerves, with the heart of a woman,
The eye of a gazelle, the courage of a gladiator, the docility of a slave,
The proud carriage of a king and the blind obedience of a soldier,
The companion of the desert plain, that turns the moist furrows,
In the spring, in order that all the world may have abundant harvests,
That furnishes the sport of kings, that with blazing eye and distended nostrils
Fearlessly leads our greatest general through carnage and the smoke of battle,
To glory and renown, whose blood forms one of the ingredients that go
To make the ink in which all history is written,
And who, finally, mutely and sadly in black trappings pulls the humblest
Of us all to the newly sodded threshold of Eternity.

NEBRASKA LIVE STOCK MEN MEET.

On May 29th the Live Stock Producers of Nebraska will meet at the State Agricultural College Farm, Lincoln, Nebraska, to discuss the beef-producing situation and inspect the experimental cattle.

The cattle used in experimental work during the past winter were common range cattle purchased in the Omaha yards the first of last November. The first forty-five days, or until December 15th, the steers were fed a light feed of corn along with silage and alfalfa hay for roughage. On December 15th they were put on the following rations:

Lot 1—Corn, prairie hay and cottonseed meal.
Lot 2—Corn, silage and cottonseed meal.
Lot 3—Corn, silage and priairie hay.
Lot 4—Corn, silage, heavy, and alfalfa.
Lot 5—Corn, silage, medium, and alfalfa.
Lot 6—Corn and alfalfa.

After years of experimenting, the Nebraska station feels certain that on the average and under Nebraska conditions alfalfa hay furnishes the cheapest source of protein when fed with corn along with limited quantities of corn stover, straw or prairie hay. The advent of silage as a prominent fattening feed raises a question as to the cheapest source of protein when silage forms a considerable part of the ration, and also raises a question as to the right amounts of silage and alfalfa to feed along with corn for best results. The foregoing experiment was planned for the purpose of determining these points. Everyone, whether living in Nebraska or elsewhere, interested in beef production is cordially invited to be present at this meeting.

Ask your neighbor to subscribe for The Homestead.

W. H. COOPER, LIVE STOCK AUCTIONEER

WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser.

W. H. COOPER, HEDRICK, IOWA.

BIG BONE 2d 161497.

FRANK IAMS

IS RETIRING FROM "HORSE BUSINESS"

CLOSING OUT All his Show and Business Stallions at..... REDUCED PRICES

Iams is making a "clean up" of his horses. All will be sold at "some price." He has his "Paris Winners and Best Stallions" in his barns. Prize Winners, $1,000 00 and $1,200, some higher. His 1913 "show" stallions must be sold in 30 days.

Iams is making **prices $200** to **$500** "**less than formerly**" on **each stallion** to make a "**Quick Clean Up**" (In next 30 days)

Paris Prize Winners at Cost in France

Buy a **ticket** to "**Iams town**" and **take advantage** of Iams' "**Reduced Prices.**" Never were such choice "**Big Prize Winners**" offered at **such "Big Bargains"—all must be sold.** They are "**Model Drafters.**" Iams' "**Old Customers**" make his "**Best advertisers.**" His "**Percheron Stallions**" are the **very best he ever imported.** They are of "**Big Size,**" **large bone, model, smooth "Drafters"** of **quality,** fine **form, finish and style, fast movers.** Among them are several

"PRIZE WINNERS AT PARIS"

NOGENT-le-ROTROU and **CHARTRESS** (three largest shows of France). They are all fully acclimated and in the "**Pink of Condition.**" **They were bought to sell. All must be sold at some price.** I know **France** and **leading breeders there. I speak** the **languages** and **know how** to "**Buy Horses**" at "**Big Bargains,**" and I **divide** "**The Bargains**" with **my customers. Iams has a choice collection of**

IMPORTED PERCHERON STALLIONS

3 to 6 years, "Registered and Inspected" by **Governments of France, weight 1,800 to 2,500 lbs. All "Branded," Approved, "Registered** and **Inspected"** by **Governments of France and U. S. and Certificates "Stamped" O. K. All inspected by a Nebraska Deputy State Veterinarian,** and **Certificates of "Health and Soundness"** are **given** with **each Horse.** Iams sells

IMPORTED WINNERS at $1,000 and $1,200

(few higher.) **Terms cash,** or **one year's time at 8 per cent bankable note, one and two years' time Land Security** at **6 per cent; $100 less price for cash than time. Iams pays freight and buyer's fares, gives 60 per cent breeding guarantee; can place $1,500 insurance. Iams backs up** his **ads** with a **$500 guarantee** that you **find the Horse as represented. Write for Horse Catalog. It has a $1,000 "Bargain" on each page.**

REFERENCES—First National and Omaha National Banks, Omaha, Neb. Packers' National Bank, South Omaha; Citizen's State, First State and St. Paul State Banks, St. Paul, Neb.

ST. PAUL, NEBRASKA.

TOO LATE TO CLASSIFY.

12 HIGH-CLASS POLAND CHINA FALL BOARS 12

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning Iowa Homestead, A. H. Windom, Nodaway, Iowa.

Double Standard Polled HEREFORD BULLS

Yearlings and good ones. They will suit you.
H. D. CLORE - - LUCAS, IOWA.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan. Scotch bred 3 yr. olds, and calves 6 to 12 mos.; choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

Orme's Prize-Winning Chester Whites I am offering 4 all boars, 10 fall sows. $25 ea. A.C. Orme, Nodaway, Ia.

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BULL SALE

At CORNING, IOWA, SATURDAY, MAY 17th

AT 1:30 P. M.

7 **Aberdeen Angus Bulls** the bonnie blacks that will suit you. **6 Young Bulls** coming yearlings, sired by Caldbrook Eric 138785 and from the families of Nosegay, Crocus, Darling, Queen Mother and Reynolds. Also we sell the herd bull above described. Come and get a good one. You will not be disappointed.

G. W. Dalgetty - - Nodaway, Iowa.
E. B. Piper, Auctioneer, Corning, Iowa.

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

DUROC JERSEY BOARS Four August boars by Colonel Tyler. Heavy boned and lengthy. $30 each if taken soon
Gus Davisson, West Liberty, Iowa.

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STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

DUROC JERSEY FALL BOARS for sale; also trios, reasonable prices.
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TO ABERDEEN ANGUS BREEDERS AND FARMERS:

REALIZING that there is a strong demand for really high-class Aberdeen Angus cattle, Wm. Cash, of Williamsburg, Iowa, and I are listing some of the very best bulls and females we own for our sale at the Holbrook Sale Pavilion, Holbrook, Iowa, Tuesday, May 27, 1913. The female end of the offering is especially strong and no man can say we are not listing cattle as good as can be bred. The offering consists of Blackbirds, Trojan Ericas, Queen Mothers and Prides sired by such bulls as Black Woodlawn, Prince Ito, Black King of Homedale 2d, Erwin C, Black King of Woodlawn and others. We appeal to new breeders to attend this sale and get some of this good seed. Come to Parnell, Iowa, (Located on Marion-Ottumwa branch of C. M. & St. Paul R. R.) where you will find free transportation to Holbrook. Write me for a catalog at once mentioning The Homestead.

P. J. DONOHOE - HOLBROOK, IOWA.

Aucts. C. M. Jones, N. G. Kraschel.

May 22 1913

There are more tuberculin tested Guernsey cattle in Waukesha County than in any other district in America

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Waukesha, Wisconsin.

FRANK E. FOX, Secretary Waukesha Wis.

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SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address George D. Harrah, Newton, Iowa.

16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
J. G. WESTROPE, HARLAN, IOWA.

AMERICAN GOODS FOR SALE

I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale** as I can spare him. He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
W. M. M'LAUGHLIN, SHELBY, IOWA.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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offers for sale

ONE red Scotch bull, thirteen months old of the Clara tribe—growthy and wide in the loin. Also four other thick-fleshed ten and twelve-months-old calves from good milking dams.
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BATES SHORT-HORNS

Write or Come and See Them

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Jonesville, Wisconsin.

Choice Scotch Bulls

FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
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LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address J. E. BARR, R. F. D. 4, Davenport, Iowa.

LYNDALE SHORT-HORNS

FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Brawith Bud, Princess Royal, Alexandria and Athene families. Priced to sell. **R. E. Baldwin, Osceola, Clark Co., Ia., on C. B. & R. Ry.**

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TWO Red Scotch-topped young Marys, both good, 11 and 12 months old, and one pure Scotch Lancaster bull, red, 11 months old, an outstanding good one. **Davenport & Mack, Belmond, Iowa.**

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JUST now offers some very choice Short-horn bulls, three two year olds, seven yearlings. Pure Scotch and Scotch-topped breeding. Come see them.
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9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
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20 CHOICE SCOTCH HEIFERS FOR SALE 20

THESE range in age from 18 to 30 months and are safe in calf to **Velvet Goods.** Also a few choice young bulls. Address, mentioning The Homestead,
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PURE SCOTCH AND SCOTCH-TOPPED

SHORT-HORN BULLS by the great Baron Sultan. These bulls are very choice, yet we name farmers' prices as we wish to close them out soon.
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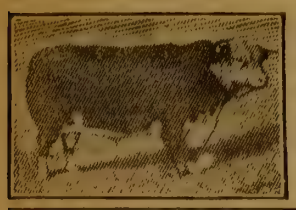

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FOR SALE—15 bulls from 12 to 18 months of age. Also some younger bull calves, yearling and two-year-old heifers. Cows with calves at foot or due to calve soon. At prices that will move them. Disturber, Anxiety, Perfection, Earl of Shadeland, Hesiod 2d and other noted bulls appear in the pedigrees. Write for prices. Mention Homestead

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Hereford Bulls for Ranchmen or Farmers

BULLS in numbers to suit buyers—40 of them from 8 to 30 months old, in good condition, strong-boned fellows, with plenty of style and quality, and carrying the most popular and valuable strains of blood. There are some show prospects among them. You can buy one or a dozen of them at prices that will be right. Come and see them or write to George D. Harrah. Newton, Iowa.

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WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.

A. SPOONER & SON, - - MONDAMIN, IOWA

Hereford Cattle Duroc Jersey Hogs

STOCK for sale of both breeds at all times. Write or come and see me. Address **A. F. HAGER, AVOCA, IOWA.**

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YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.

FRANK J. CLOUSS, Barnum, Iowa.

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Home. stead and address Luke L. Wiles, Plattsmouth, Neb.

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GOOD YOUNG ANGUS BULLS

YOUNG bulls by Blackbird and Queen Mother sires that are strictly first class in every respect. King Champion by Blackbird Royal and Swan Lake Black Sign by the $3,500 Black Sign 2d are the sires. Out of big roomy **producing** cows; all calves are worthy of consideration by any breeder. Get my prices.

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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

ABERDEEN ANGUS BULLS

I HAVE 7 bulls, all grandsons of Black Woodlawn, with quality that I am offering at farmers' prices. One is a toppy Blackbird calved last May. They are from 11 to 16 months of age. Call on or write

A. G. MESSER, GRUNDY CENTER, IOWA

BULLS ALL SOLD

12 PURE-BRED cows, but not registered; price $75.00. To calve soon. Some registered heifers, year old now. Price $100.

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ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

ANGUS BULLS FOR SALE

I have a good 2-year-old and several yearlings that I will sell right. Address

H. R. DAVIS - - CORNING, IOWA.

HAMPSHIRE SWINE.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Keatucky ond Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address

HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

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Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head ou hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS**

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WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our are aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today.

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300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, DE KALB, IOWA.

SUNNY SLOPE HAMPSHIRE SWINE

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.

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I HAVE four fall boars and two aged boars for sale at reasonable prices. Write me at once if you want one. Mention The Homestead and address

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MULE-FOOTED SWINE.

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale

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LARGE YORKSHIRES

Gilts bred for Aug. and Sept. farrow. Pigs no. akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

HAMPSHIRE SWINE.

Valley View Hampshires

Nothing left at present but fall pigs. Address **Fred Wheeler, St. Charles In.**

DUROC JERSEY SWINE.

E. S. MAYES, JR., OWNER OF DEFENDER,

GRAND Champion International Exposition '09 and '10. The highest priced Duroc boar ever sold. The sire of many state fair champions. If you need Defender stuff we will be pleased to hear from you.

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HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead, **J. W. STORM, SEVILLE, OHIO**

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FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mound's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

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Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

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As good breeding as in existence, as good individuals as the best and priced well worth the money. Few fall boars and gilts by Valley Chief Col. out of dam by C. W. Again, also the Jr. year show boar, Crimson Chief. Nothing better. Will send extended pedigree and prices. Address **J. C. Theobold, Ohiowa, Nebraska.**

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I HAVE a few extra choice fall males by this $1,200 Iowa State Fair champion, 1911. Choice spring pigs for sale at weaning time. Address

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DUROC JERSEY FALL BOARS

October boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears. A good pig at a fair price. **J. C. Porter, Ogden, Iowa.**

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SIRED by Defender Junior, he by Defender, will weigh about 200 lbs.; also have some fall gilts bred August farrow will sell cheap if taken at once.

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DUROC JERSEY FALL BOARS by Golden Model Jr., out of dams by Crimson Wonder I am, $25 to $40; big bone, fancy quality. U. G. Davidson, Algona, Ia.

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I HAVE six yearling boars, one by Crimson Wonder I Am out of a Proud Colonel sow, and five by Wilson's Defender (by Defender) and out of sows by Model Chief, Wonder Boy and Victor Wonder. These boars weigh over 300 pounds and are good. Prices reasonable. Write me mentioning Homestead.

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Reed's big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol. 40437a. If you want a big, smooth, heavy-boned pig, visit or write Wm. Reed, Rose Hill, Iowa. Farm adjoining city limits.

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FALL boars sired by Queen's Chief 12635 by Chief select 88307, the noted prize winner. Dams by Stout's Advancer 63503 and Double Wonder II. 100-625. These are a choice bunch and strictly big type.

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30 Heavy-Boned, Growthy Poland China Boars

AND 30 gilts. March farrow, weight 175 to 200 lbs. From mature parents, best breeding, large litters. Two 15-months Short-horn bulls. Pleased buyers in 24 states past 20 years. Can please you. Box H. R.-4.

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78 IMPORTED DRAFT STALLIONS 78

Including 8 noted Wrydelands colts rising 3; 25 Imported GRAY and BLACK PERCHERON STALLIONS, the BEST we could buy in France; 40 IMPORTED SHIRE STALLIONS 3 to 6 years old, including the champions, first, second and third prize winners at International, Illinois, Iowa, Minnesota and Wisconsin State Fairs of 1912; the GOLD MEDAL INTERNATIONAL WINNING ROAN BELGIAN stallion 3 years old, we think the best Belgian colt in America; a few Hackney Stallions and 35 Imported Shire and Percheron Mares.

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We have some of the very best stallions and mares that have crossed the water and we are making special prices for next thirty days. Come and see us at once.

Oaklawn Stock Farm

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

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150 Stallions, Mares and Colts 150

Including a Few Choice Young Percherons

60 HEAD imported October, 1912; another large importation arrived March, 1913, making this the best and largest collection of Belgian draft horses to be found anywhere in America. The supply on hand never allowed to run low; you will at all times find a large and choice collection from which to choose. You will be delighted at the Belgian Horse Show to which you will be treated when here. I can satisfy you in price; I can satisfy you in quality, bays, browns, blacks, sorrels and roans. Get on the train, come to Cedar Rapids or Iowa City, then phone me to meet you at the electric car line; car every hour from Cedar Rapids and from Iowa City. Catalog ready.

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AS I must change climate, I offer at reduced prices for early sale, the following registered Percheron horse colts: Two yearlings, two 2-year-olds, one 3-year-old and one 4-year-old. All grays and of conformation to suit you. Four will make ton horses. Will make prices right and you can name terms. Can supply you with seven choice brood mares also from 2 to 6 years old. This is a grand bunch with 3 already in the ton class. All registered Percherons.

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Bargains for late buyers.
Stallions from yearlings to 5 yr. olds
Size, breeding and quality right.

L. A. Matern, Wesley, Iowa.

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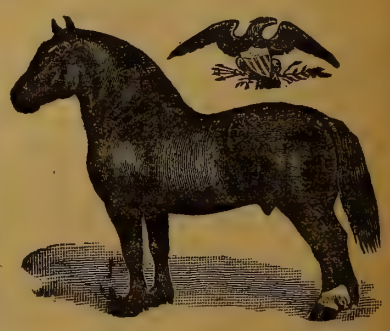

New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

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Purchase Percherons

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FAIRFIELD, IOWA

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12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.
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FOR SALE Two extra heavy-boned, registered Shire stallion colts coming two and three years old. Price $300 and $400

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The Iowa Homestead

VOL. LVIII. NO. 21 DES MOINES, IOWA, MAY 22, 1913. WHOLE NO. 2902

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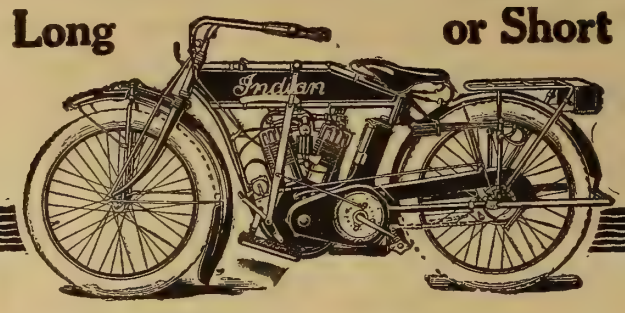

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You can go anywhere, over any kind of road, at any pace from 4 to 50 miles an hour. Two comfortable riding positions. Always ready for instant use.

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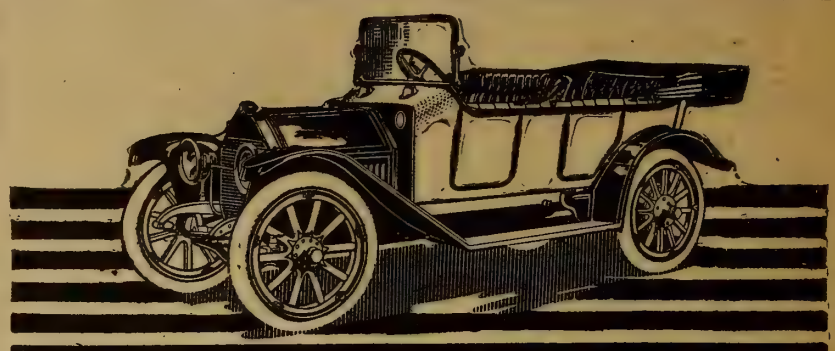

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Model 5A — Five-passenger Touring Car, with electric starting and lighting system and complete equipment—Price f. o. b. Pontiac **$1700.**

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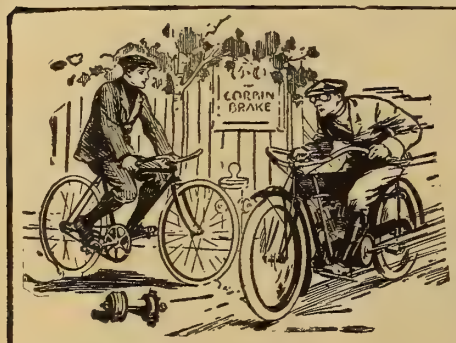

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Enables bicycle riders to avoid sudden accidents or collisions. Operated instantly by the pedal. The standard of safety, reliability and control. Invaluable for touring. Corbin Two-Speed brake is an immense assistance on steep up-grades or against strong head winds. Greatly appreciated by elderly riders.

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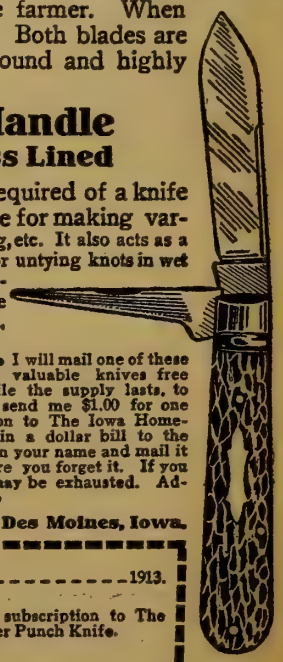
THIS KNIFE COSTS MY READERS NOTHING

You have read about the famous Leather Punch Pocket Knife—the knife that is called the "Marvel of Mechanical Ingenuity"—the only knife that was ever made especially for the farmer. When opened it is six and one-half inches long. Both blades are of finest tempered tool steel, perfectly ground and highly polished. The knife is complete with



Best Quality Stag Handle
Securely Riveted and Brass Lined

The large blade fills every common use required of a knife while the leather punch blade is indispensable for making various sized holes in leather for buckles, rivets, belt lacing, etc. It also acts as a swedging awl or marlin spike when turned to the left. For untying knots in wet rope and hard leather this blade has no equal. While possessing all these valuable features, the knife is no more clumsy or awkward to carry than an ordinary pocket knife.

My Guarantee I am so sure that this knife is all I claim for it that I am going to place a gilt edge guarantee on it. Send me $1.00 for one year's subscription to The Iowa Homestead. I will mail you a knife free. Try it for ten days. If it is not just what I claim it to be, you can return it to me and I will refund your money. You take no chances.

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LOUDEN'S SANITARY STEEL COW STANCHION
is the only real Sanitary Stanchion now on the market and guaranteed to be superior to all others—The favorite of all progressive dairymen who know. It's the simplest, strongest, lightest and **most durable.**

The single chain, flexible suspension, patented V-shaped end, stock-proof latch, and other exclusive features make it the safest and most comfortable for the cow and most convenient for you. Lowest in cost. **Quickly Pays for itself** by increased flow of milk.

Write for our **FREE BARN PLAN SERVICE.** *State how many and what kind of stock you wish to stable. Plans drawn especially for you. Catalog Free.*

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LOW FACTORY PRICES We furnish the highest grade bicycle it is possible to make at one small profit above the actual factory cost. You save $10 to $25 middlemen's profits by buying direct of us and have the manufacturer's guarantee behind your bicycle. **DO NOT BUY** a bicycle or a pair of tires from *anyone* at *any price* until you receive our catalogues and learn our unheard of *factory prices* and *remarkable special offer.*

YOU WILL BE ASTONISHED when you receive our beautiful catalogue and study our superb models at the *wonderful low prices* we can make you. We sell the highest grade bicycle at lower prices than any other factory. We are satisfied with $1 profit above factory cost. **BICYCLE DEALERS** you can sell our bicycles under your own name plate at double our prices. Orders filled the day received. **SECOND HAND BICYCLES**—a limited number taken in trade by our retail stores will be closed out at once, at $3 to $8 each. Descriptive bargain list mailed free.

TIRES, COASTER BRAKE rear wheels, inner tubes, lamps, cyclometers, parts repairs and everything in the bicycle line at half usual prices.

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MEAD CYCLE CO., Dept. W. 184, CHICAGO, ILL.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

When Writing to Advertisers Please Mention The Homestead

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 22, 1913.

HOG FARM EQUIPMENT AND METHODS

Housing of Brood Sows at Farrowing Time—Letting the Pig Do the Work of Feeding Himself—Combining the Pure-Bred Branch With That of the Pork Producer—Making the Farm Better.

THE hog has and always will have a stable standing in the live stock end of progressive agriculture. The hog has been a potent factor in paying off the mortgages on hundreds of corn-belt farms. Therefore the methods employed by a successful swine breeder should be of interest to the majority of our readers.

CHEAP, COMFORTABLE FARROWING PEN.

Among practical swine breeders there is a wide difference of opinion as to the relative merits of the individual farrowing house as compared with the up-to-date artificially heated hog house. Many breeders use each successfully. The period covering the months of March and April is the critical period, future profits considered, for the swine breeder, as the largest number of pigs are farrowed during those two months. The man who succeeds in saving the largest percentage of pigs farrowed at this time will have the largest net profits from this particular branch of his live stock business at the end of the year. In this article we will give the plans of work in practice at Sunny Slope Farm, in Washington county, Iowa, the manager of which is an enthusiastic advocate of the individual farrowing pen. That method is used exclusively in raising pure-bred Hampshires on Sunny Slope Farm. Four or five hundred hogs are annually produced, and with a minimum mortality rate among the young pigs at farrowing time. There are various types of individual pens, but the kind used on Sunny Slope Farm is that shown in the accompanying illustration. The base is five feet ten inches by six feet. The sides are made of 1x12 boards sixteen feet long. These are sawed into three pieces, making them five feet and four inches in length. The ends are boarded up with drop siding. A door is made in the end about twenty by thirty inches and a two-inch hole bored above it for the purpose of ventilation. The advantage of a small house is the increased warmth from the conservation of the animal heat in the sow. An enclosure about 16x16 is made around the pen in which the sows and pigs may take exercise. They are kept in these pens until the pigs are four weeks old and then two or more litters are allowed to run together.

The exact breeding date is an important consideration. The sow should not be confined in the small pen longer than three days before she farrows. At Sunny Slope no one loses sleep sitting up with sows at farrowing time, as it has been learned from experience that, if sows have had plenty of range, and if they have been forced to take an abundance of exercise along with having been properly fed, it is a rare exception for one to have any difficulty in farrowing. Nature is allowed to have full sway, and the sow is not molested for from twenty-four to thirty-six hours after farrowing except to remove the placenta and any dead pigs that may be in the pen. Dry bedding that has been used in the barn for other animals is disinfected with coal oil and placed in the pen before turning in the sow.

Neither pigs nor hogs of age are given slop. The pigs are given dry feed, consisting of a mixture of 60 per cent ground oats, 30 per cent ground corn, 5 per cent each of linseed meal and germ oil meal. Plenty of fresh water is always kept in the lots so that the pigs can have free access to it. This practice is followed on the theory that the dry feed and water will be better mixed and in better proportions for the pig's benefit if the mixing be left to nature than if done by human hands. Making and carrying slop to 200 or 300 hogs is no small item of labor, and by the above method all this is avoided.

Raising such a large number of hogs gives an opportunity to cull out all inferior animals and send them to market, and still have a large number to sell for breeding purposes. A show herd is exhibited at the leading shows each year and championships have been won at the International Stock Show on hogs bred at Sunny Slope. Part of the surplus is sold in annual bred sow sales at very satisfactory prices. From five to eight car loads of steers are always on feed at this farm and incidentally we might add that they have been good enough to win in the car lot division of the International Stock Show. Hogs are always allowed to follow cattle, and thus some cheap growth is obtained. The plan of farm operation is an ideal one in the objects attained. The number of animals kept is greater than the capacity of the farm to produce feed. The situation demands the purchase of several thousand bushels of corn an-

(Continued on page 16.)

SELF FEEDER FOR FEEDING DRY GRAINS.

THE SPRING CROP THAT FATTENS NEXT FALL'S BANK ACCOUNT.

HE IS ONE OF THE ELECT.

FEEDING STEERS THAT CONTRIBUTE TO THE LAND IMPROVEMENT.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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COMPETING WITH THE ENSILAGE FEEDER.

Attention has frequently been called to the fact that the cattle feeder gets his largest profit not directly from feeding operations, but rather from the increased productiveness of his land. However, the average man likes to see a profit on every branch of his operations. Unless live stock farming can be carried on so that by and for itself it pays well for the time occupied in carrying it on, then no amount of screaming from the house top will ever make the live stock industry take permanent root on the farms of the corn belt.

One of the experiment stations recently finished up a bunch of steers that were fed shelled corn, cottonseed meal and clover hay. These steers were purchased at $5.55 per hundred pounds and they were sold for $8.25, but in spite of this good spread in value the net profit per steer was $3.37. It cost $14.23 to make a hundred pounds of gain on these steers, computing the feed at regular market prices. In an adjoining feed-lot a similar number of steers were fed the same length of time, but in this case corn silage was used in place of clover hay. These steers, were bought at same price, namely, $5.55 per hundred pounds, and they sold ten cents per pound higher than the steers fed on hay, or for $8.35 per hundred pounds. Their gains were made at a cost of $9.88 per hundred pounds and the net profit per steer in this case was $20.96.

These results are worth pondering over by those who propose to follow along the same old-fashioned route in feeding cattle. The cheap gains in this case were due to the fact that a given acreage produces a larger amount of good fattening food in the form of ensilage than can be produced in any other way. The man who tries to finish cattle on dry feed alone must in the future compete with those who take this short cut to cheap gains. There can be only one outcome of a situation like this, namely, that the practice of those who use the cheapest meat-making foods will be the basis of cost in the future. Those who cannot bring the cost down to this minimum point by the use of this comparatively inexpensive food will be eliminated from the business or they must continue to carry it on at a loss, relying wholly for their profit upon the effect of feeding operations on the productiveness of their land. As said before, this profit will not suffice in the case of the average man. If dry feed cannot be fed at a profit then quit feeding dry feed. If ensilage reduces the cost of making gains anywhere from two to four cents a pound, then how is this competition to be met by those who do not feed ensilage?

WARNING TO FRUIT MEN.

From Kansas comes the report that in their efforts to stop the incursions of worms and caterpillars, farmers are killing their fruit trees by misapplying axle grease and white paints. The warning issued by Walter Wellhouse, secretary of the horticultural society of that state, may well be heeded by farmers everywhere:

Sticky fly paper is one of the finest things there is to prevent worms or caterpillars getting up into the trees. If this is not available take some cotton batting and tie it around the tree and then coat it over with axle grease or a solution of castor oil and rosin, which makes a sticky substance that catches the bugs and worms as they attempt to crawl up the trees to get at the foliage and fruits. The only thing to do is to be careful that all the cracks and holes made by rough places in the bark of the trees are filled up with the cotton.

Axle grease or other petroleum greases are all right and do the work if applied properly, but they must not be put directly on the trees or it will kill the trees. Wrap the trees in cloth and then coat the cloth and see that the cracks in the bark are stopped up. Either an adhesive or a greasy substance will do the work of preventing the bugs getting into the trees or of preventing rabbits eating the bark. Either plan will work all right, but do not apply the grease to the bark itself and do not put the fly paper on the trees, sticky side in. Put the fly paper on and tie it fast with the stickiness outside so the bugs will get into it and die.

The abuse of useful curative remedies is well illustrated by the experience of the Kansas fruit growers. There is fully as much in knowing how to apply cures as there is in knowing what to use. A little attention to the advice given by Mr. Wellhouse may save many farmers of the grain belt from much fruit loss.

MAKING FARMING WORTH WHILE.

Addressing the Kansas State Bankers' Association Governor Hodges raised the interesting point that while all social progress and welfare depend upon the prosperity of the farmer, still the latter is not to be measured alone by bank deposits, important as they are. The farmer must not only be prosperous in a material and financial way; he must be prosperous in a mental, spiritual way, also. He must not only enjoy the leadership which monetary wealth brings, but he must enjoy those advantages upon which the comfort and serenity of happy farm life depend: means of communication, opportunity for self-advancement, enlarged sphere of usefulness, pleasures and opportunities such as others enjoy. Governor Hodges made this important and plain to his banker auditors, saying:

The crowning glory of a state is the universal education of its people, and an educated people is a prosperous people. I do not mean prosperity in a financial way alone, but that degree of added citizenship that enables us to meet the responsibility of the present-day age. Life is more than meat, and the body is more than raiment. Increased bank deposits and overflowing granaries give greater cause for gratitude, but they only begin to solve the problem of state development. The prosperity of the farmers is more than fundamentally important, for upon our agricultural industry rests, in turn, the prosperity of the very large percentage of her people, but the prosperity of agricultural districts must not be measured alone by the individual wealth of the agriculturalists or stock raisers.

The means of educating the children of the farmers, the comforts of the families, the facilities for transportation and communication, the provisions for the full enjoyment of country life so that it will be inviting to the young man and woman who are reared in the country or in the towns of the state, are also problems that must now engage our thoughtful attention, and the thoughtful attention of you gentlemen who are the commercial molders of the state, if the one great asset of our state is to be conserved and nurtured.

The greatest of modern questions with which you gentlemen, who are the individual leaders of your communities, must deal is that of the betterment of the conditions in rural life. Thoughtful men are directing their minds to this question.

One of the chief propositions that must concern all thinking men is the solution of the civic center problem. I note with gratification that some communities in this state are already taking hold of the movement and are now applying themselves to the community life, and the community life means back to the farms, more pleasant surroundings for our young men and women. The influx of the younger men and women to our cities, fraughts our rural districts with grave danger. You must have better roads, more attractive social life, community centers, so that the younger generation will not feel that they are prisoners upon the farms, but will learn to realize that farms and farming are the great basis of the wealth of this great nation.

It is a most gratifying sign of the times that the very man who can most assist the farmer in reaching the fulness of life is already so interested in his progress. The banker and the farmer make a strong team and one which is working together, for mutual good, in all parts of the country. Land values have become so high that farming can no longer be profitable when conducted in a haphazard manner. The farmer who does not some time or other need the friendly co-operation of the banker is rare indeed. It is because the two men are working together that each is prospering and that the farmer is reaching that position where his prosperity is not confined exclusively to his bank balance, but takes in the larger things which make life really worth while.

CUTTING AND CURING HAY.

There is no farm operation that affects the farmer's profits, in view of the extensive area of the farm devoted to grass culture, so much as the cutting and curing of hay. In early times it was customary to commence haying when the entire crop of grass was ready to cut, but in late years the relative feeding value of grass cut at different periods of growth has been more generally recognized, and the progressive farmer who has a large acreage to harvest begins before the period of greatest value has arrived. It is more profitable to cut a part of the crop too early than to cut the larger part too late.

The proportion of stem and leaf growth in grass affects its composition and digestibility, and what is lost in the development of stem by early cutting is more than made good in the composition of the leaves. The leaves are richer in protein than the stems, and as the protein is the valuable element of hay the composition of these should be given great consideration in determining the time of cutting. For instance, the analysis of timothy hay cut in early bloom shows 8.15 per cent of protein, while ten days later it shows but 7 per cent. A yield of a ton and a half per acre would show about 170 pounds of protein while the same quantity cut ten days later would show but 104 pounds of protein. There is much advantage also in the early-cut over that in the late-cut hay.

The mistake of overdrying hay in the field is often made. This applies especially to clovers and in a less degree to grasses. The clover leaves dry faster than the stems when spread out and exposed to the sunlight and wind, and if the hay is stirred much with the tedder the clover will lose many of its leaves. There is also a great advantage in placing large quantities of hay in a mow over scattering around one load in a place, for the natural heating will dry it out if so placed, when this effect would be lost in small quantities. Clover should be cut in the early afternoon, turned over before night, and if the weather is good hauled to the barn the following afternoon. There is much more damage to the hay crop resulting from overdrying than from underdrying.

Summarizing the matter of cutting and curing hay, it can be asserted that all grasses and clovers should be cut before they have passed the blossoming stage, that overdrying should be avoided, should be put into a high mow in one day, and that the largest feedng value comes from grasses grown upon soil liberally treated with nitrogenous manures.

A POLITICAL STALLION LAW.

Nebraska stallion owners in the future must go to political head quarters and obtain a permit to keep for public service, sell or exchange a stallion or jack because, according to a law recently enacted, the stallion registration board is composed of the governor, state treasurer and commissioner of pubic lands and buildings.

To obtain a certificate the owner must furnish the board with an affidavit from a qualified veterinarian giving to the stallion or jack a clean bill of health. Under the law the board cannot grant a certificate if the horse has ring bone, side bone, bog spavin, bone spavin, curb, stringhalt, shivering urethral gleet, melanosis, periodic ophthalmia (moon blindness), laryngeal hemiplegia (roaring), cataract, amaurososis (glass eye), chorea (St. Vitus dance), cramplineos, curby formation of hock or is seriously defective in conformation, or vicious disposition.

Under this law it costs $3 to apply to the board for a certificate, the owner in addition bearing the expense of the veterinarian's examination. Every stallion and jack in the state must be re-examined annually until the animals are eight years old. Certificates are granted alike to the owners of pure-bred and grade stallions, but in the case of grades two-inch type must be used in poster or card advertising in making known to the public that said animal is a grade.

A fine ranging from $50 to $100 or imprisonment in county jail not exceeding thirty days is the punishment provided for a violation of this law. All inspections made and certificates issued under the old Nebraska stallion registration board are recognized under the law for the year 1913.

WHERE DISEASE GERMS LURK.

The advent of another season calls attention once more to the danger which lurks in the visits of the ordinary house fly. As a disseminator of disease it is doubtful if there is any more deadly agent. Carrying filth on its wings, feet and antennae, the fly goes from garbage can and manure pile to the cup of milk set aside for the baby and to the food that goes to sustain life in the invalid. Nothing is sacred from the deadly visitations. Typhoid fever, dysentery and many other diseases are spread by the fly's visitations. Nothing is more important at this time of the year than to make it absolutely impossible for the house fly to contaminate the family food supplies.

In connection with the annual fly campaign the health department of one of the prominent southern cities has issued a fly decalogue which every farmer and every member of the farm household should heed, before it is too late.

1. Remember thy garbage can to keep it covered, lest thy garbage become a stench in the nostrils of the people and breed flies.
2. Thou shalt cut the weeds in thy vacant lot, lest it become a hiding place for old tin cans, which catch water and breed mosquitoes, papers and divers sort of trash.
3. Thou shalt bear witness against thy neighbor's rubbish heap, likewise his dirty back yard.
4. Thou shalt clean out the habitation of thy horse and thy cow frequently, lest the stable fly flourisheth and spread infantile paralysis, and the house fly breed by the thousands and millions, and annoy thee and thy beast and produce much sickness in thy family.
5. Thou shalt prevent the breeding of the fly in the springtime, that thy children unto the third and fourth generation need not swat him later.
6. Remember thy back yard and alley to keep them clean. Six days shalt thou labor to keep thy premises clean, and if yet the task is not accomplished thou couldst do worse than continue on the seventh.
7. Thou shalt covet all the air and sunshine thou canst obtain.
8. Look not upon the milk when it cometh from the unclean dairy; for the doctor will not hold thee guiltless if thy infant sickeneth therefrom and die.
9. Remember thy cleaning-up day and keep it wholly.
10. If thou dost hearken unto these sayings, to do them, thou shalt live long in the land.

Conditions are much more apt to become serious, through carelessness or lack of sanitary conveniences, in the country than in the city. Absence of garbage cans or improper disposition of refuse may mean the health and even the life of a loved one. This is too serious a matter to let go. We urge upon all our readers that they look around their house, their outbuildings and their premises generally and clean out the breeding places in which the germs of deadly diseases are even now lurking.

THE HORSE STILL SUPREME.

In a lump sum the horses of the United States are valued at the immense sum of $2,278,222,000. The average price of a horse has advanced $4.83 since 1912, and he is now held at $110.77. In the country there are 20,567,000 horses. Iowa has 1,568,000 horses, Illinois 1,482,000, Texas, 1,181,000, Kansas, 1,099,000, Missouri, 1,084,000, Nebraska, 1,027,000. The range of valuation is from $147 in New Jersey to $58 in New Mexico.

In the matter of individual valuation, however, the horse must give way to the mule, that has a selling value of $124.31. In some states the mule is valued at $171.00. In Missouri, which produces 326,000 mules a year, the value is put at $117.00 each. Texas leads all the states in mule raising. Missouri, Georgia, Mississippi, Tennessee, Alabama, Oklahoma, Arkansas and Kansas follow in the order named.

Save all the mill feed and gunny sacks. They come in very handy for various purposes around the farm.

THE FARM POWER HOUSE.

By the sensible use of certain forms of power on the farm a very large saving can be made on the upkeep of implements alone as compared with the plan of allowing them to go by default until they are no longer fit for use. It requires some little equipment, to be sure, but farm implements are relatively high in price and a man can earn good wages during the time that he spends in keeping them in good condition. A properly equipped shop or power house will aid much in cutting off the loss due to depreciation. A Kansas subscriber emphasizes this point and enumerates briefly some of the things that can be accomplished when the proper plan is followed in installing the equipment. Among other things he says:

It is much more economical to run several machines at the same time than to run each one separately. By putting in a line shaft and connecting all the machinery, a farmer can run them at the same time with the same engine or dynamo. If desired each machine can be run separately.

A churn, cream separator, washing machine, emery grinder, pump, common grindstone, etc., as well as feed grinder and ensilage cutter can be easily handled. It will probably pay the farmer if he operates a large farm to have a large enough engine to run a corn sheller and wood saw. It makes it more handy to have the engine in a separate room and run the power belt through an opening in the partition.

One farmer kept his engine in a small engine room. On the north of the engine room was a longer room which was well constructed. Mounted in this room was a cream separator, churn, pump, washing machine and one or two other tools. Of course, the room was long enough so the different machines were a good distance from each other.

On the north of this tool room the feed grinder and corn sheller were located. By using belts of different lengths all this machinery was run by the same engine. The line shaft which ran all the tools in the main room was suspended from the ceiling by hangers which were oiled by wick oilers. Care should be taken to keep the main tool room in a sanitary condition. The floor should preferably be made of concrete.

Where there are growing boys on the farm a power house with its necessary equipment will be one of the chief centers of attraction. The average boy likes to be "tinkering" and where he has some equipment to work with he can accomplish something and in turn, he is all the time receiving a most excellent training both mechanically and mentally. The introduction of new forms of power on the farm is doing much to make the work more attractive for the growing lads, saying nothing of the saving that can be effected by keeping implements of every sort in proper repair and by taking advantage of the modern methods of performing labor whether this has to do with the feeding and care of live stock or with the preparation for field work.

DISKING ALFALFA AFTER CUTTING.

We have two or three inquiries from as many farmers who have alfalfa who ask for information along the same line, the disking of alfalfa after it has been cut. One or two express doubts about the disking doing good, although these men never have tried it. Another asks how the disk should be set for doing work, whether to throw much dirt or to cut down into the sod without moving the dirt.

The disking of alfalfa pays or it does not pay, depending upon the condition of the alfalfa and the weather. We would not recommend the disking of young alfalfa, say which has been established only one or two years, as the roots are still so small and tender that the disk may cut many of them below the crown, in which case the plant will die. Disking does the most good to old alfalfa, that which has become rather sod-bound and large in the crown. The object of disking is to stir a hard, compact surface soil and to split without entirely cutting through the large crowns. An alfalfa crown that is split just right will send out many more branches than it ever did before, and will start out with a new lease on life.

The disk harrow working in alfalfa should not be set to throw much dirt, as that would mean the cutting of too many roots; instead, the disks should be run rather straight and weight applied to make them cut, with just angle enough so the soil is slightly cultivated. The alfalfa cultivators do much more satisfactory work than disk harrows, as the spikes dig up the surface and split the crowns without cutting or tearing the plants out by the roots. Of course the grower of limited acres cannot afford to buy one of these alfalfa cultivators or harrows when a disk harrow, a common tool on every farm, can be made to answer the purpose on a small acreage.

COWPEAS AFTER SMALL GRAIN.

We predict that a smaller acreage than usual has been seeded to timothy and clover this spring on account of the high price of seed. This means that much land after the cereal crop is removed in July will remain wholly unproductive during the rest of the season unless an annual crop is seeded as soon a possible after harvest. For this purpose cowpeas can be used to very great advantage. While under certain conditions it is impossible to seed the peas without plowing the land, yet, ordinarily, it pays to turn under the stubble in order to properly prepare the seed bed. In the case of abundant rainfall so that the ground stirs easily double disking may answer every purpose.

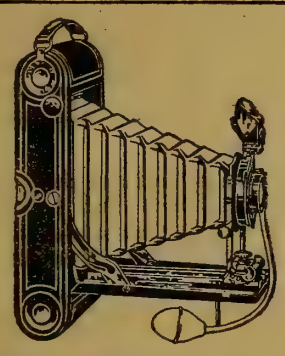
Better results are obtained from drilling in cowpeas than from the plan of broadcasting. This method saves seed and four or five pecks per acre will answer every purpose. Ordinarily, the seed is too high in price to sow broadcast and run the risk of having a certain percentage left on the surface where it will not germinate. Fair results may be obtained by stopping up every other cup in the grain drill and using only two or two and one-half pecks per acre. The peas under these conditions will grow a little more rank, but they will, eventually, spread out and cover the whole surface if weather conditions are favorable.

As to the use that should be made of the crop, much depends upon conditions. If land needs enriching in organic matter it might be advisable to plow it under late in the fall, though we believe that after a crop is produced, its feeding value is greater than its fertilizing value and some plan should be worked out to utilize it for live stock. If this is not practicable, however, the investment in the seed and the labor involved in putting in the crop will be more than covered by the benefit that will be derived from plowing it under.

We repeat that the plan of sowing cowpeas after removing a small grain crop is especially adapted to those cases where ground should have been clovered this year, but, owing to peculiar circumstances, it was not seeded. If a heavy growth of peas results the land will be in fair condition if it is plowed late this fall for a corn crop next year.

The Museum of Natural History in New York has recently received a specimen of the giant forest hog of Africa, which lives in the densest forests of the Dark Continent, and therefore, has been seen by very few persons. Natives report that these animals attain the height and size of the zebra and rhinoceros. Their very appearance is terror-inspiring, and on account of their fierceness the natives generally leave them alone. Because of the overgrown character of the country frequented by these animals it is impossible to hunt them, except at close range, and the tribesmen of the country will go after them only when the rewards are very great. The animals have a very large head, with great tusks protruding at either side. Under the eyes there are warty growths which add to their unattractive appearance.

Ask your neighbor to subscriber for The Homestead.



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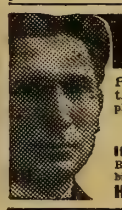

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ALFALFA, $6; SWEET CLOVER, $11; cane, millet, timothy, $1.50. Pigs $11. Cholera serum, 2 cents. Farms for sale and rent on crop payments. John Mulhall, Sioux City, Ia.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Just as long as you can keep your herd don't lose your nerve in these times of hog-cholera devastation. You had as well run the risk of the disease wiping out your herd as "the other fellow," and the farmer who can take his hogs safely through this period, is going to feel well repaid for his efforts in the hog-raising business.

If much hauling is being done, keep the horses shod, at least in front.

Skim milk, with a little oil meal added, and a pasture lot to run in, will keep the little porkers on the sure road to profitable pork production.

A little watchfulness from now on will prevent the loss of considerable wool on creep holes in the wire fencing, nails about the fold, snags of boards, rails, etc.

Very rarely do you ever see a good, tight wire do any damage to the live stock—it's the slack piece of wire thrown carelessly about or hanging to a post, that demands a tremendous toll from our farmers every season, in the shape of fine horses, by ruining or killing them.

Keep a sharp lookout for hawk and crow nests; promise the boys a bounty on every hawk or crow egg, or for one of their young. Wage eternal warfare on these foes to the poultry-raising business!

A Missouri subscriber is very anxious to obtain the experience of men who have used the stone silo. He lives in a community where stone is relatively cheap and is contemplating putting up this type of a silo. He would like to be a little surer of his ground, however, before undertaking it and for that reason asks for the experience of those who have tried out this type of silo.

Don't feed the brood sow very heavily on milk-producing foods until the little fellows are strong enough to tumble about and get considerable exercise. Many a pig has died young because he tried to make a hog of himself in a couple of days.

Fresh air is so common a thing on a farm that it sounds foolish to mention it, but did you ever stop to think that many of the common things that are without price to us on the farm are priceless in an altogether different sense to our cousins who live in the larger cities?

The fly will soon be with us again and will probably be as "fat and sassy" as ever in spite of the swatting she got last year. It might not be a bad plan to hunt up the hand sprayer and get a can of fly chaser. It is a great help in making milking time a little more pleasant.

It looks as though we will be called upon to "pay the freight" on what is to be known as a county road and as roads are to have special names we suggest that "The Automobile Speedway" might do.

One of the many things that try the patience of the dairyman is the teaching of the heifer to stand quietly while being milked. There is a difference between teaching and breaking heifers to stand still. Begin teaching the heifer some time before calving and no break will be necessary.

No doubt there are some buying cars who should not buy them, but there are likewise about as many farmers who should buy cars but who do not. The modern car is a great time saver during the busy season of the year.

The trouble with too much of the corn is it is too much of a stand. Thick corn looks pretty when small, but it usually looks bad at earing time.

The young folks of today are not the gardeners young folks used to be. When I was a boy both girls and boys worked in the garden, and everyone had a good garden; nowadays the girls begin to primp to attract beaus at a childhood age and must not soil their hands by garden work, while the boys think of other things besides gardening.

Crop killers have already had two raps at the winter wheat crop. First, the dry weather, then the Hessian fly. Other crops will, no doubt, "get theirs" later.

The sticky condition of the fields this spring led some of the anxious ones to leave the grain drill in the shed and do their seeding with the old broadcast. This will be a good season for them to observe the fields of their more slow-going neighbors and see who wins out at threshing time.

A rather smooth-talking salesman was trying to convince me, a few days ago, that I should put my old gasoline engine on the junk pile and buy a kerosene engine from him, of course, claiming that the saving in my fuel bill would soon pay for the new engine. Perhaps he was right, but it occurred to me that the old jingle of "Good, true friends are hard to find" might hold good even with machinery.

The "test your seed corn" slogan seems to have petered out to a great extent, but the work of testing goes on as usual. One failure to get a stand of corn lasts a long time.

The average farm furnishes income from the small things that were not noticed years ago. Dairying was little done in the corn belt thirty years ago, while poultry raising was confined largely to home needs. Eggs were really cheaper then than now, too, so we see that a larger production frequently opens the way for a larger demand.

One sees straight rows, fairly straight and mighty crooked rows. I usually make mine to conform to the intermediate class, yet, when the marker does not find fresh soil and harrowing was last done in the same direction with the planting, they often appear in the latter class. The maker of crooked rows excuses himself by the oft-made remark that more corn grows in a crooked row.

The summer pasture propostion is resolving itself into a very expensive one. I should not wonder if some of us are now paying more to carry an animal through the warm half of the year than it costs to take the same animal through the cold half. The keeping of stock cattle is now generally limited to the pasture acreage, as all in the corn belt have plenty of winter feed.

Common mosquito bar makes a very cheap efficient screening for the windows in summer; is neater in appearance than the regular wire screening, and can be easier mended if torn.

In most states, the farmer pays a good stiff road-tax. Look around a bit, and see that this money is judiciously expended on the public highways.

Look out for tight collars as the horses pick up in flesh.

A Real 1913 Car

By R. E. Olds, Designer

Here are some things which you should look for in a 1913 car. A car without them lacks things you should have.

New Features

The leading cars of this year have the left-side drive. They have electric dash lights—set-in lights—not the old projecting lamps.

They have oversize tires. Skimpy tires, which double one's tire bills, are quite out-of-date.

All cars, in such things, follow the leaders. So don't get features which the best makers have abandoned.

New Ideals

Then men today are buying cars for keeps. So the best makers now are building cars which will run for years like new. And cars which cut down upkeep.

Reo the Fifth, my latest car, shows what such cars require.

It is built of steel made to formula, and analyzed twice. The gears are tested in a 50-ton crushing machine. The springs are tested for 100,000 vibrations.

Every driving part, as a margin of safety, is given 50 per cent overcapacity.

We use 15 roller bearings, though they cost five times as much as common ball bearings. We use 190 drop forgings to avoid the risk of flaws

We use a $75 magneto, a doubly-heated carburetor, a smokeless oiling system.

We build slowly and carefully—grind parts over and over—watch them through endless inspection.

Each engine is given five long tests, lasting 48 hours altogether.

We could save in our building about $200 by using less care and less costly parts. But it would cost you in upkeep, in years to come, several times $200.

So we give you the best we know. Then we save you about 20 per cent on our cost by confining our output to this single model.

Thus we give you a car, built as we describe, at this matchless Reo price.

Rod Control

Reo the Fifth has our new control. All the gear shifting is done with one center rod, entirely out of the way. It is done by moving this rod only three inches in each of four directions.

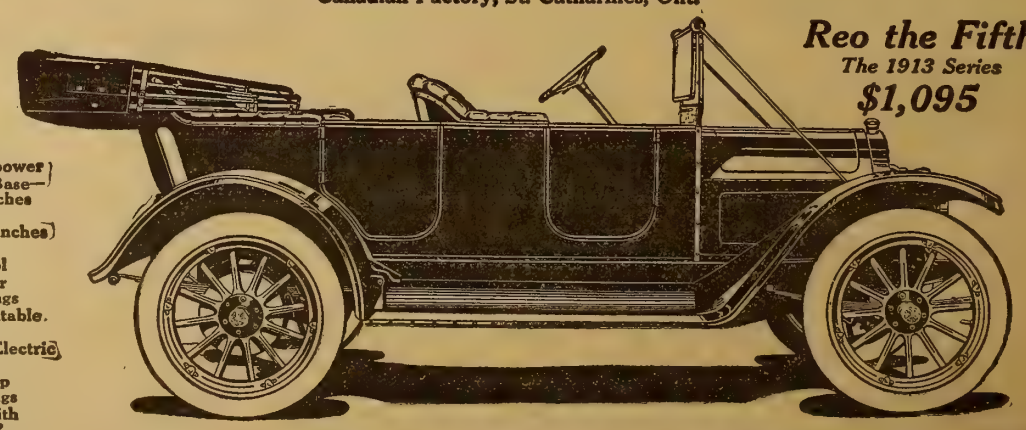
There are no levers to clog the way of the driver. Both brakes are operated by foot pedals. So the driver enters from either side.

You will want this feature in your car when you see how much it means.

After 26 years spent in car building, Reo the Fifth marks the best I know. If you want the best, please see it.

Write for our catalog and we will direct you to the nearest Reo showroom. They are everywhere.

R. M. Owen & Co., General Sales Agents for Reo Motor Car Co., Lansing, Mich.
Canadian Factory, St. Catharines, Ont.



Reo the Fifth
The 1913 Series
$1,095

30-35 Horsepower
Wheel Base—112 inches
Tires—34 x 4 inches
Center Control
15 Roller Bearings
Demountable Rims
Three Electric Lights
190 Drop Forgings
Made with 5 and 2 Passenger Bodies

Top and windshield not included in price. We equip this car with mohair top, side curtains and slip cover, windshield, Prest-o-Lite gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for $100 extra (list price $170).
(Gray & Davis Electric Lighting and Starting System at an extra price, if wanted.)

CURRENT EVENTS

PLANS for a reorganization of the republican party were laid by a number of the progressive branch of the party at a conference held in Chicago last week. The leading spirits of the meeting were Ex-Governor Hadley, of Missouri; Senator Cummins, of Iowa; Senator Kenyon, of Iowa; Senator Borah, of Idaho, and Senator Sherman, of Illinois. After a two days' meeting a public statement was issued which pledges the conference to a number of important party reforms, chief among them being a change in representation so that the South, with but little republican vote, will not be represented fully as strong as the North and East, with a strong republican vote; adoption of the primary law and a change in the manner of considering the credentials of conflicting delegates. These three things were the undoing of the party at the national convention in Chicago last summer and the rebelling convention which was the forerunner of the progressive party. While the progressive element among the republicans was taking this action in Chicago, however, the standpatters continued to stand aloof, saying that when the party was reorganized the initiative would have to be taken by them. A serious split still exists in the party and whether the breach can be bridged is still doubtful. National Chairman Hilles has called a meeting for the 24th of this month, at which time it will be decided whether a national convention will be held this year to consider reorganization plans so as to be ready for next year's campaign in the various states.

PRESIDENT WILSON proposes to go further than President Taft in furthering international peace. It will be recalled that President Taft proposed treaties between the United States, Great Britain and France, referring all disputes, excepting those affecting national honor, to an arbitration tribunal composed of representatives of the two countries. The senate so amended the treaties that when they finally passed they were no longer acceptable to the three nations. Now President Wilson, aided by Secretary Bryan, is carrying on negotiations for an agreement "with every other nation, great or small, that so far as our nation and that contracting nation are concerned, there will be no war, no declaration, no commencement of hostilities until the question in dispute has been investigated by an international tribunal and its report made known." The present proposal does not limit the questions of dispute in any manner, nor is it confined to a few of the great world powers, Secretary Bryan having already assembled the representatives of thirty-six nations at Washington and submitted the Wilson plan to them. At the recent meeting of the international peace delegates in this country Secretary Bryan addressed them, urging the acceptance of the new plan, saying that it "is a long step in the direction of peace." It is now proposed to have a world-wide celebration of 100 years of peace between English-speaking nations, celebrating the centenary of the Treaty of Ghent, which closed the British-American war of 1812-1814 and which was signed December 24, 1814. An invitation to participate will be extended to practically the entire world, so that the event will go a long ways toward advancing the cause of universal peace.

J. PIERPONT MORGAN stood as ready to aid President Wilson, should financial panic ensue, as he did President Roosevelt or President Taft. Such is the assertion made by Col. George Harvey, who had a long and intimate talk with the late financier just before he left for Europe, where he died. Mr. Morgan's words, according to Colonel Harvey, were these: "When you see Mr. Wilson tell him for me that if there should ever come a time when he thinks any influence or resources that I have can be used for the country, they are wholly at his disposal." Mr. Morgan was quite generally given credit for having saved the country in the financial panic of 1897 by placing his immense resources at the command of the government and using his influence with financial leaders to restore confidence. Since his death Mr. Morgan has been quite generally eulogized for his public spiritedness, the animosity engendered by his great wealth and commanding position passing wtih his death.

Anyone who has wrestled with the check rower of twenty years ago, surely can appreciate the perfected planter of today. The old "detachable" checkrower certainly was a time-killer.

This Free Book Explains Money Saving Short Cuts on Corn Cultivation.

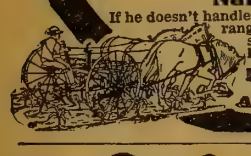
At last a readable book of corn pointers for practical farmers. Shows why farmers lose by improper cultivation. Explains money saving features of the Bailor 2-Row Cultivator, the only successful 3-horse machine on the market.

Investigate This Wonderful BAILOR 2-Row 3-Horse One Man Cultivator.

Saves half your time and expense. Plow on any kind of ground, even against sidehills. Balance frame prevents neck weight. Draft equalizer makes light draft. Independent control gangs and shovels. Built of steel and malleable iron. A boy can operate it.

Send Us Your Dealer's Name

If he doesn't handle the Bailor we'll arrange for a free demonstration without obligating you.



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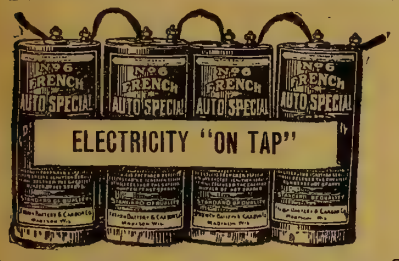
Atchison, Kan.



Think of having the wonder-working power of electricity "on tap" all the time! Father, instead of fussing with a lantern in the barn, now simply presses the button of an electric flasher. Mother doesn't stumble down dark cellar stairs, risking life and limb any longer. She "switches on" a light and goes her way in safety. Son John—the coming "Young Edison"—is making all kinds of electrically-driven apparatus, from a doorbell to a gate-opener. Daughter Mary finds many uses for electricity. Even the mail-carrier presses a button on the mail-box 'way out in the road, which rings a bell telling the folks that there's mail in the box.

And remember this: These things and dozens of others can be done in a jiffy, at small cost, by the use of a few

French Batteries are scientifically constructed *packages of electricity.* They are *special*-purpose batteries built for a *special job.* Thousands of auto owners insist on the French "Auto Special"—the dry-cell battery with the blue label. The green-labeled French Dry Battery is for household uses.

Get this Book

Send for our great free book. Describes over 100 uses of French Dry Cells—an education to any man or boy. Mail in the coupon below—it brings all the facts. Tells what French Dry Cells do; why they last longer and give better satisfaction than others. When you buy batteries insist on the *genuine French.* Your dealer will tell you the particular French Battery you need. Send that coupon *now.*

French Battery & Carbon Co.
5 Inca Street, Madison, Wis.

Mail the Coupon Now

FRENCH BATTERY & CARBON CO.,
5 Inca Street, MADISON, WIS.:

Gentlemen:—I am interested in electrifying my farm and would like to know how to do it at a low cost with French Dry Batteries.

Name _____

Address _____

R.F.D. _____ (5)

Prest-O-Lite

No Other Light So Cheap, So Good, So Dependable, or Any More Convenient.

Gives the best practical road light you can use. If you wish, you can add an automatic lighter, and light and extinguish the lamps from the seat, thus giving all the convenience of the more complicated systems. It costs less to use than any other brilliant light—usually costs less than the carbide you feed a generator. Why bother and take risks with poor or unreliable light when Prest-O-Lite costs you no more?

Ask Any Dealer to Guarantee—

1. That the lighting system he offers you is as reliable, as free from repairs, as efficient, and as economical as Prest-O-Lite.

2. That any more complicated system will not cost more for repairs and replacements during the first season's use than two years' use of Prest-O-Lite.

3. That the system he offers you will not materially handicap the power, speed and efficiency of the car or increase the weight.

If you cannot get this guaranty, in writing, better get Prest-O-Lite.

Prest-O-Lite Is An Investment

Size "E" Prest-O-Lite costs only $15. This is an investment as it can always be sold for about this price and never becomes second-hand. The exchange fee is no greater than carbide to give you an equal amount of light from your lamps using a generator. New lamps are not needed if you are now using a generator, and even the same rubber tubing can be used.

In its safety, and protection, Prest-O-Lite saves you more than its costs. One accident at night might cost you many times the price of Prest-O-Lite. One repair to a complicated lighting system might easily cost you more than years of Prest-O-Lite Service.

For Farm Emergencies

Prest-O-Lite is invaluable should night catch you with some important bit of farm work unfinished. It can be set up on the spot in a few minutes, giving you light as bright as day. This one feature should make Prest-O-Lite invaluable to you.

Prest-O-Lite Exchange Service

If you have any doubt as to obtaining Prest-O-Lite exchanges quickly or conveniently, consult your nearest dealer or write to us. We will gladly arrange to give you prompt service. Our literature on Prest-O-Lite and our automatic lighter with full particulars and "Light on the Lighting Problem" giving the **real facts** in **all** lighting systems, are yours for the asking.

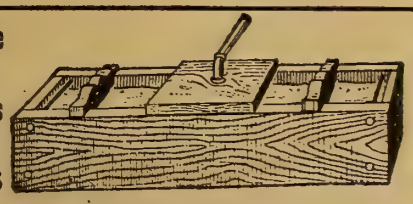
Try It for 30 Days Free

Any Prest-O-Lite dealer will equip your car with Prest-O-Lite and let you use it 30 days. If at the end of that time, you find any of our claims untrue, or are not satisfied in any way, he will take it off your car, refund your money and the 30 days' use is yours absolutely free.

The Prest-O-Lite Co. 420 East South Street INDIANAPOLIS, IND.

Exchange Agencies Everywhere.

An ONLY for Service
An ONLY for Cost
An ONLY for Business
An ONLY for YOU!
ONLY $3.75



This is our 6th year in the business and ever increasing sales is the proof of its ability to do the business in the hog yard.

The time is at hand when the farmer requires just as clean water for his hogs as for the horses or cattle, and that will be conservative of the water supply, and automatic with the needs of the stock. **We have all these requirements in the "ONLY" Hog Waterer.** Ask for our new book, "HOG SENSE." It's FREE. Address

ONLY MFG. CO., Dept. H, HAWARDEN, IOWA.

THE SMALL FARM AMERICA'S HOPE.

In common with thousands of others I am strongly impressed with the belief that the subject of better farming in America is the most important now occupying the attention of the commercial world. By better farming is meant a system that will produce larger profits and an easier living for those who till the soil, as well as a greater acreage production.

Modern farming, as the author views the subject, requires varied information as well as unflagging zeal and industry. It needs the application of commercial ideas. Real success in agriculture can only be attained by keeping up with changing conditions and developing a well-balanced business program to go with the tilling of the soil.

Farm life need not be more irksome than clerking or running a typewriter. It ought to be made much more attractive and it can also be vastly more profitable than it is. Better homes and more social enjoyment, with greater contentment and happiness, will come to dwellers in the country when they grasp the eternal truth that they have the noblest vocation on earth and one that may be made to yield an income fully as large as that of the average city business man.

Farm life need not be more irksomely strong, both to the man in the country and the resident of the city. It is, in fact, the hope of the American farmer and of the business world today. Through this modern system the rural family is to escape much of its drudgery, and the city family is to obtain commodities at lower prices. By the new method of intensive and diversified agriculture, country life is to become easier and more attractive both to the young and to the old.—C. C. Bowsfield in "Making the Farm Pay."

I WANT TO SEND EVERY HOUSEWIFE MY BIG BARGAIN BOOK FREE

Madam: Do you want to know how you can furnish your home with the newest, most beautiful furniture at bed-rock prices? Do you want to know how you can get furniture, clothing, underwear and everything for the farm, home or family at wholesale cost? I'll send you my big catalog displaying thousands of bargains at direct, wholesale prices. Just drop me a line—a postal card or letter—and I'll send you my big, three-color bargain book FREE—*prepaid.*

5.65 **For This Golden Ash Panelled Refrigerator**

A wonderful bargain! Just the thing for this summer. Made of best grade ash, golden finish. Perfectly insulated. The chambers are lined with heavy galvanized steel and furnished with galvanized steel ice trays. Complete, price only.....$5.65

This Roomy Hardwood Kitchen Cabinet Only 6.98 Complete Rock-bottom PRICE

A real value! This Galloway, hardwood, golden finish Kitchen Cabinet only $6.98. Base, 26 x 42 ins. Fitted with two flour bins and two drawers. Sliding bread board. Upper cabinet has two glass doors. A handy thing for any kitchen. An extraordinary bargain---only $6.98

125,000 satisfied customers. Satisfaction guaranteed or money refunded.

I Want To Help Furnish Your Home

I want every housewife to write for my new, big catalog. I want to help furnish your home. You'll find the great Galloway book loaded with furniture, curtains, rugs, clothing, underwear and everything for the farm, home or family. Your simple request gets this book FREE.

Write Me Today—NOW! Just drop me a letter or postal card and ask for the big, new Galloway Bargain Book. I'll send it to you free—prepaid. Don't delay—write me at once—NOW! Just address 421

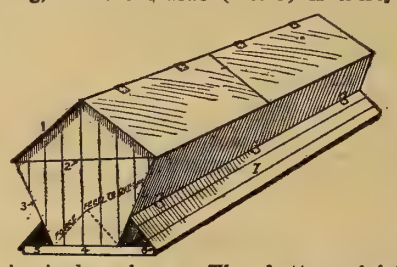
WM. GALLOWAY, President, Wm. Galloway Co., 11 Galloway Station, Waterloo, Iowa

WRITE ME TODAY!

This Galloway Kitchen Cabinet Only $6.98 Shipped Direct to You

A SELF-FEEDER.

A South Dakota subscriber, Mr. Charles King, has had remarkable success in handling hogs with what might be called the dry-feed method and he sends the accompanying sketch of his homemade self-feeder. This feeder is sixteen feet long and it holds sixty-five bushels. By referring to the numbers on the sketch the important measurements as used by Mr. King may be learned. The rafter (No 1) is twenty-four inches long and the tie (No. 2) is forty-one inches long, while the side (No. 3) is thirty-



six inches long. The bottom joist (No. 4) is thirty inches wide at base, being made of three 2x10x16 pieces. The trough (No. 5 and 6) extends out six inches from where the feed comes down, while the trough door (No. 7) is seven inches wide. This hangs from two strap hinges and it should project over the edge about one-half inch. One side of the roof is placed on hinges and it is better to have it in two parts, because it is more easily lifted at filling time. If this filler is kept inside, ordinary roofing may be used, but if it is to be placed outside, the roof should be covered ith sheet metal.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending May 18, 1913:

Reports from nearly all parts of the state tell about the same story of cool, cloudy weather, frequent and heavy showers and delayed farm work. The temperature was, however, but slightly below the normal over the southern half of the state, and the rainfall over the southern tier of counties was considerable less than one inch. Over the northern sections the temperature was 4 to 8 degrees below the seasonable average and the rainfall was much in excess of the normal, especially in the west central and northwestern counties where creeks were out of their banks and much bottom land was flooded. Probably not more than one-fourth of the corn has been planted, and there is much ground yet to be plowed. Except for delaying planting and plowing, the rains have been generally beneficial. All small grain and grass crops are in excellent condition. Orchard and small fruits are unusually promising.

The progressive farmers around Pequot, Minnesota, have a farmers' co-operative club, of which J. B. Fulton is secretary. The club has now organized an up-to-date-co-operative creamery and will have a co-operative shipping warehouse next fall, so that the members can deal direct with the consumer on practically everything they grow. Particulars of the club will be given to any one interested, by the secretary.

ENJOY A VACATION IN THE BLACK HILLS

The wonderful Black Hills of South Dakota afford an ideal locality for rest and recuperation.

Hunting, fishing, horseback riding over wooded mountain trails, bathing in the medicinal waters of the hot springs, are all to be enjoyed in a glorious climate and amid splendid scenery.

Reduced fares June 1st to September 30th. Return limit October 31st. Excellent train service. Favorable stop-overs. Choice of routes. Printed matter and full information on application to ticket agents, Chicago and North Western Ry. —Adv.

BELL CUPOLA

Galvanized steel.

Sold only direct to the farmer. We have a system that will pay you to investigate. Write for catalog.

Strayer Mfg. Co.
CRESCO - IOWA

ABSOLUTELY WATERPROOF STACK AND MACHINE COVERS

OUR Stack and machine covers made of the very best quality of duck and treated with **Slickerine** wear twice as long as others and are absolutely waterproof. They stand hardest use—never mildew, get stiff or break. Covers 9 ft, 4 in., or over, strips run the short way, draining water perfectly and adding great strength. Manila ropes 4ft. 8 in. apart. Guaranteed full size and weight. Write for free booklet. Reference, Illinois National Bank.
SLICKERINE COMPANY,
P. O. Box 79, Dept. 7. Peoria, Illinois.

TESTED SEED CORN

Guaranteed To Satisfy Or Your Money Back.

EVERY ear of our corn is tested for germination and we ship it in the ear, in the crate, so you can see just what it is. Our corn is adapted to your locality, no matter what part of the corn belt. Our growers are among the leading prize-winning exhibitors at the best corn shows, and our seed is especially selected and tested. Our price is extremely low when you consider that it only costs you less than 80c per acre for this specially selected and thoroughly tested seed. Tell us whether you want the Yellow Dent or the White Dent and we will guarantee the seed we send you will entirely satisfy or your money back. Price, shipped in the ear, in bushel crates, seed tested, $5 per bushel. A bushel will plant six to seven acres. Can you make a better investment? Order today. Address

GALLOWAY BROS.-BOWMAN CO.,
Box S. C. H., Waterloo, Iowa.

Agricultural Education

COLLEGE training for farm and rural life work gives increased efficiency and earning power. Six four-year courses in agriculture and home economics. A two-year course for boys and a two-year homemakers' course for girls. Write for catalog. Address
CHAS. F. CURTISS, Dean,
Iowa State College, Ames, Iowa.

LANDS AND HOMES

Timothy and Clover Lands

IN southern central Wisconsin, new 20,000 acre county drainage district; open meadow lands, no stumps; all within four miles of the station; to be divided into 80-acre dairy and truck farms. Only sixty-five miles from Iowa, six hours from Chicago. Ten years' time given to the actual settler. Write
The Peddie Land Company, Inc., Owners,
Cedar Rapids - - - - - Iowa.

IOWA 280 acres, $127.50 per acre. 200 acres as choice, level, black, productive soil as there is in the state of Iowa that would sell for $250 per acre. 80 acres in choice pasture land. There is a fair set of improvements. This farm is in a good neighborhood, six miles from county seat in southeastern Iowa. Good roads, schools and churches. Address, mentioning The Homestead, Owner, P. O. Box 325, Davenport, Ia.

WOULD YOU BACK YOUR OWN JUDGMENT when you saw a farm snap? If so come and let us show you land in the best soil of northwest Iowa and southern Minnesota. Write for particulars.
Seaton & Brown, Spencer, Clay County, Ia.

Eastern Iowa Corn Farms

WE have the real bargains. Make us prove it. Our list will surprise you. Write for it TODAY
Hunter Land Company, Cedar Rapids, Iowa.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

SOUTHEASTERN KANSAS IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas.

CENTRAL MISSOURI FARMS Write for descriptive price list of improved farms that will prove profitable and satisfactory as homes and investments. HAMILTON & CRENSHAW, Box 3, Fulton, Mo.

SOUTHERN MINNESOTA CORN LANDS GROWS any grain Iowa farmer grows. Improved land $65 to $125 per acre. Address
McCadden & Allison, Fairmont, Minnesota

CALIFORNIA LAND Send for catalog. Properties in all counties. Valuable, reliable information. C. M. Wooster Co., Phelan Bldg., San Francisco

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address
SPAULDING & O'DONNELL, Elma, Iowa

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address Hall's Farm Agency, Owego, Tioga Co., New York.

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GREAT OPPORTUNITY! 50 Quarter Sections, mostly unimproved Prairie Land in the famous Red River Valley, Minnesota. Well located near markets, schools, churches, creameries, telephone and rural mail route, good roads, good water and where the surrounding improved farms are worth double the price asked. Prices $25, $35 and $40 per acre—$500 to $1,000 cash down, balance on easy terms. Abstracts showing titles in good shape. Want actual settlers or parties who will improve the lands. Write at once. Address
BOX 168, MINNEAPOLIS, MINN.

SOUTHWEST MINNESOTA FINE spring bargain for thirty days only. 160 acres, well improved; under a high state of cultivation; black soil; every acre farmed; good neighborhood. Price $80 for quick sale. Will be worth $100 this fall. Only twenty-four miles from the Iowa line. Strictly in the Corn and Clover Belt. Corn yielded one hundred bushels per acre last year in this county. No trade. Write for particulars and also for bargains in other farms. Have large list. Address DRAWER C, SLAYTON, MINN.

LANDOLOGY FREE A magazine giving the FACTS in regard to the land situation. 3 months' trial subscription. If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it "Personal" and say "Mail Landology and all particulars free."
Address: LLOYD M. SKINNER, Gen. Mgr.
Skidmore Land Co., 133 Hall Ave., Marinette, Wis.

160 ACRES 5½ miles of Solomon, Kansas, good dark loam soil. 50 acres native pasture, 6 acres alfalfa, 80 acres meadow. Lies fine. Five-room house, barn, 8 horses, shed attached for 8 cows. All fenced. Fair orchard. Plenty of good water. A big snap at $9,000. Terms on part. Write for list of bargains. Address
Beeghley & Miller, Solomon, Kansas.

FARM FOR SALE 400 ACRES of first-class land, all tillable, 300 acres in crop, the rest hay and pasture. Good buildings, good well, fine grove, one mile from station, four miles from Lansford. One of the best farms in this part of the state; no trade. If interested write owner, J. S. Johnson, R. 5, Lansford, N. D.

HURRY! HURRY!
IF YOU WANT AITKIN COUNTY, MINNESOTA, LANDS. Prices low. Terms easy. They're going fast. Write Land Agent, Chicago, Rock Island & Pacific Railway, 116 Wolvin Bldg., Duluth, Minn.

WANTED Good tenants for good farms, well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

160 A. LEVEL LAND half cultivated, near Iowa line. Near town. Ten years' time. Thos. Brady, Worthing, South Dakota.

POULTRY DEPARTMENT

THIS department is edited by a competent poultry man, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

WORMS CAUSED BY INFECTION

Mrs. Biram Warren, of Putnam county, Missouri, sends the following inquiry:

Our chicken are bothered with a little worm just under the skin on the neck and this causes the feathers to drop out. Please tell me the cause of this worm and the correct treatment.

The worms in question are the result of, and not the cause of, the trouble. It is rather difficult to distinguish between favus and scabies, though we suspect the latter. The scientific name for this mite is Sarcoptes laevis. The tenacious character of the parasite causes it to be hard to combat and it frequently causes a diseased condition of the skin, sometimes becoming so infected as to cause the "worms" just as worms are found in a neglected wound or sore. We once had a turkey hen so badly infected that she died.

Both mites and worms are under the surface and to be reached must be treated with oils that are very penetrating or well rubbed in. The simplest, and at the same time a good, treatment is coal oil and linseed oil. The proportions may be varied according to the urgency of the case. In this flock it is advisable to use rather severe measures. Try equal parts. The kerosene removes the dead, scurfy matter and the linseed oil prevents irritation. Rub the affected parts thoroughly, using a swab. If there is an abrasion of the hand it is possible for the poultry keeper to become infected. Apply every day and if the treatment causes too much rawness lessen the proportion of kerosene.

This mite is to be found more or less in all flocks of poultry, but causes no serious trouble until conditions are favorable for them to increase. If fowls use wood ashes for a dust bath it is prone to absorb the oil of the feathers, causing them to become brittle and break off. This trouble may also be caused by fowls not having access to fat-forming foods. Lack of oil in the skin causes the feathers to be lifeless. Any one or all of these causes would make the fowls susceptible to an attack of scabies.

The hen house is usually the most negected outbuildings on the average farm, and yet the occupants of said hen house usually return a greater net profit than any other source of income. If the hen house is not kept clean the mites are sure to increase, and where mites are thick the chicken business cannot prosper. We have a job waiting us this afternoon in our hen house, hence this paragraph.

TELLS WHY CHICKS DIE

J. C. Reefer, the poultry expert, of 1681 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure It." This wonderful book contains some new scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. Everyone interested in poultry should certainly write Mr. Reefer for one of these valuable FREE books.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS SETTINGS from 3 prize winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

RHODE ISLAND REDS.

R. C. RHODE ISLAND REDS THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address H. E. HUSTON, - Iowa Falls, Iowa

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I. REDS 75 cents per 15 or $4 per 100. Pen No. 1, $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Address, mentioning The Homestead. J. B. HEISEL, - Grinnell, Iowa.

$3.00 for 50 EGGS FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

When writing to advertisers please mention The Homestead.

RHODE ISLAND REDS.

Rose Comb Rhode Island Reds EXCLUSIVELY. **EGGS FOR HATCHING** LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City. Henry G. Walker - Iowa City, Iowa

RHODE ISLAND REDS SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

MORRILLVILLE POULTRY FARM ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

"ALLENDALE" R. C. R. I. RED EGGS FOR SALE EGGS from four fine pens, headed by males scoring high and prize winners at $2.50 to $5 per 15. Utility eggs from a fine flock at $1 per 15 after May 10th. Send for free mating list. Address Mrs. J. H. Allen, New Sharon, Iowa.

Single Comb Rhode Island Reds 4 grand pens headed by 2d and 4th cockerels Dubuque; 1st and 4th cockerels Oelwein. Eggs half price. $1.00, $1.50 and $2.50 per 15. Send for mating list. C. E. Hayes, Box A, Lamont, Iowa.

RoseCombReds eggs from high-scoring, large, rich red, strong, vigorous, well-marked stock of heavy laying strain; sitting $1.25; $3.00, 50; $5.00, 100. A. Christopherson, Garden City, Iowa.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa,

SPECIAL offer to all new customers ordering eggs from our S. C. Reds during May. Eggs, $1 to $5 per 15; $5 per 100. Free mating list. J. A. Holmes, Steamboat Rock, Ia.

R.C.RHODE ISLAND REDS EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

S. C. R. I. Red Eggs from bred-to-lay strains. pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa,

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1.20 for 30; $3 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

S. C. R. I. Reds and Buff Cochin eggs for sale from prize-winning stock at $1.00 per setting. Dixon & Champlin, Box 460, Iowa Falls, Iowa.

THOROUGHBRED R. C. R. I. Red eggs; pen 1, 15 for $1.50, 30 for $2.75; pen 2, 100, $4.75; 45, $2.50. Miss E. C. Powers, Osage, Ia.

EGGS from high-bred stock R. C. Reds; farm range, closely sorted, 75c per 15; $3.50 per 100. A. A. Worthington, Media, Ill.

Single Comb R. I. Red Eggs for Sale 15 for $1; 100 for $4. Address J. C. Porter, Ogden, Ia.

S. C. REDS Large, good shape, extra color. Great winter layers, fertile eggs guaranteed. 15, $1; 50, $3; 100, $5. Woodlawn Farm, Sterling, Ill.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address Mrs. Sophia Ruder, Laurel, Iowa.

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

SINGLE Comb Rhode Island Reds exclusively. Fine breeding, vigorous farm-raised stock, eggs for hatching, 15, $1; 100, $5. R. H. Ortman, Bancroft, Ia.

S. C. R. I. Reds Exclusively from prize-winners, $5 per 105, $1 per 17 Address I. C. WELCH, - BEDFORD, IOWA

S. C. R. I. RED EGGS Exclusively, $1 per 15, $1.75 per 30, $5 per 100. Address George Hunt, Earlville, Iowa

S. C. R. I. Red eggs, from a heavy laying strain, at $1.00 per 15; $3.00 per 50 and $5.00 per 100. Address M. E. EDWARDS, Route 2, Walnut, Iowa.

S. C. R. I. REDS Eggs 75 cents per setting, $4.00 per hundred. Address Mrs. A. O. Adkison, Oakland, Iowa.

S. C. R. I. RED Eggs from large, red, cup-winning stock, $5, 100; $1, 15; pen $2, 15. Address Mrs. Fred Miller, Adair, Iowa.

S. C. R. I. R. EGGS $1.00 per 15 and 75 cents per 15. From cockerel dark red, no smut, weight 8 lbs. Scores 92¾. Address W. I. PRICE, Ira, Iowa.

EGGS from high-class Rose Comb Rhode Island Reds, 75 cents per 15; $4.00 per 100. Mrs. John Holmgren, Rolfe, Iowa.

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30. C. H. North, R. D. 2, New Hartford, Iowa.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15, $3 for 50; $5 for 100. A. B. Walton, Wilton Junction, Iowa.

SAND R. C. Rhode Island Reds, DeGraff and Tuttle strains, Prize winners. Prices reasonable. Send for free mating list. W. S. Moore, Kalona, Ia.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea.; guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

PLYMOUTH ROCKS.

HAWKINS - BRADLEY - THOMPSON BARRED Plymouth Rocks. Our yard is headed by Bradley cockerels scoring 91¾ to 94½. Birds have fine style and excellent plumage, being barred to the skin. Prize winners wherever shown. We guarantee fair hatch and safe delivery. 15 eggs $1; 30 eggs $2; 50 eggs $3; 100 eggs $5.00.

H. C. Saunders & Son, - Montezuma, Iowa.

WHITE PLYMOUTH ROCK EGGS FLOCK consists of 150 pullets selected from 400 and mated with 11 pound pure white cockerels. Prices $1.00 for 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Order from this ad. JAS. JENSEN & SONS, NEWELL, IOWA.

Barred P. Rock Eggs and Baby Chicks HAWKINS, Thompson and Bradley strains. From high-scoring, good laying stock, heavy bone, deep, narrow barring. 15 eggs, $1.25; 30, $2.25; 100, $5.50; 200, $10. Mrs. Elsie Noble, R. 2, New Boston, Ill.

White P. Rock Eggs and Baby Chicks from high-scoring, prize-winning stock. Fishel strain. Free range. Eggs 15, $1; 100, $4.00. Chicks, 10 cents each. Address L. A. CRULL, Route 2, Muscatine, Iowa.

EGGS, BARRED PLYMOUTH ROCKS BRED for size and eggs from hens weighing from 7-10 lbs. 30, $1.50; 100, $4. F. W. Mack, Spencer, Ia.

Barred Plymouth Rocks Wales' strain W. Wyandottes. Fishel strain, large, fine marked birds, farm raised eggs $1.00 per 15; $5.00 per 100. H. J. Brown, Belmond, Iowa.

Thirty Years' Experience As a breeder and exhibitor of Plymouth Rocks. Eggs from barred, buff, white. $1 for 15, $2.50 for 50. A. Mathews, Mt. Union, Iowa.

BUFF ROCKS Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address L. L. Woods, Grinnell, Iowa.

BARRED ROCKS Eggs from large boned, bred-to-lay stock. Fine shape and color. $1 per 15, $1.50 per 30. Address H. M. SKIPWORTH, LUANA, IOWA.

BUFF ROCKS High-scoring, with trap-nest and show records. Proven winter layers. Eggs: 15, $1, $2, $2.50; 100, $5. Catalog, chicks. M. B. turkey eggs. Write M. Henningsen, Dike, Ia.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar. size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

White P. R. Eggs from very best selected stock, $1 per 15, $2 per 30, $5 per 100. Mrs. Jack N. Gatzemeyer, R. F. D. 1, Bancroft, Neb.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BarredRockEggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

EGGS from pure-bred white Plymouth Rocks; Fishel strain; farm raised; 15, $1; 50, $2.50; 100, $4. Address Mrs. E. E. Johnson, R. 2, Milo, Iowa.

White Rock Eggs Selected and guaranteed. Write for prices. Address Mrs. Myrtle Carter, Panora, Iowa.

WHITE P. Rocks, S. C. R. I. Reds. 15 Eggs parcel post $1.75. Express $1.50. Safe delivery and fertility guaranteed. Mrs. G. W. Alberts, Leigh, Neb.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4. Address O. N. Woody, Route 3, Newton, Ia.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

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W. P. R. Exclusively. Carefully selected stock. Eggs $1.25 per 30 or $3.50 per 100. Address Mrs. W. S. Huber, Tipton, Iowa.

PRIZE-WINNING White Plymouth Rocks, fine, large, farm raised. Eggs, $1.00 per 15, $4.00 per 100. Address Mrs. Jas. Pedley, Route 3, Britt, Iowa.

PHEASANTS.

CHINESE PHEASANTS Eggs from pure-bred birds. Ten eggs for three dollars, packed to carry safely. For information or eggs write T. B. McDonald, Lovilia, Ia.

BABY CHICKS.

Baby Chicks 4 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A, Chatfield, Ohio

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

BELGIAN HARES.

BELGIAN HARES Easier raised than poultry, better meat, nice pets, very prolific, $1 to $10 each. Hawkeye Poultry Yards, Mt. Pleasant, Ia

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

ANCONAS.

RAISE chickens that lay always. Try the mottled Anconas. They beat them all. $1 per 15 eggs. Address Mrs. W. A. Emrick, Buchanan, Ia.

PLYMOUTH ROCKS.

White Plymouth Rock Eggs PENS No 1 is headed by 1st cockerel at Ottumwa. Pen No. 2 is headed by a cockerel that was raised by a cockerel that was GRAND CHAMPION at Detroit Mich. in 1912, eggs from these two pens $2 per 15. My utility flock is headed by cockerels scoring 94 and 95; all birds weigh 9 to 11 lbs. each. Utility eggs, $1.00 per 15, $2.00 for 30, $3.00 for 50, $5.00 for 100. Address CHAS. L. BRADLEY Iowa City, Iowa.

EGGS FOR HATCHING BARRED P. Rocks exclusively for 20 years. Yards headed by cocks and cockerels scoring 92 to 95½ points. Descendants from first prize winners. Cocks and cockerels weighing 10 to 13½ pounds. Hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last show, 1912. Eggs $1.25 per 15, $2.00 per 30. Prompt shipment and eggs guaranteed fertile. M. HOSMER, Monroe, Iowa.

STRATER BROS., Monroe, Iowa, breeders of

Barred Plymouth Rocks 31 years with size and quality and the best of layers. Prize winners and cared by prize winners. Eggs, $1.25 per 15, $2 per 30, $6 per 100. Special mating, $5 per 15. Prompt shipment.

1898 BUFF ROCKS 1913 EGGS from 3 exhibition matings at $3 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings. M. E. KRAFT, - Brooklyn, Iowa.

Barred Plymouth Rock Eggs And baby chicks from prize-winning stock and excellent layers of both matings. Write for mating list. Mrs. L. C. Reese, Prescott, Iowa.

WHITE ROCK EGGS Strictly pure white with size and standard points, combined with excellent laying qualities. Selected eggs for hatching, $1.50 per 15; $2.25 per 30; $4 per 45. Satisfaction guaranteed or eggs replaced at half price. Baby chicks, 20c ea. John W. Houselog, Bellevue, Ia.

Barred Rock Eggs FROM first prize winners and pure brassy stock. Both cockerel and pullet mating. $3 to $5 per 15. $6 per 100. Stock at all times. Write for circular. ALBERT A. FOSTER, Russell, Iowa.

B. P. Rock Eggs for Hatching FROM my hens and pullets weighing from 8 to 11 pounds each, mated to large cockerels, high-scoring cockerels with extra heavy bone. Not brassy, price, 15, $1.50; 30, $2.25; $6.00 per one hundred eggs. Address M. A. Easthouse, Hartley, O'Brien Co., Ia.

Barred P. Rock Eggs for Sale FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92¾; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. J. W. Wagner, Monroe, Iowa

White Rock Eggs for Sale FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100. Charles Guth - Berwick, Iowa.

BARRED ROCK EGGS COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

Eggs for Hatching B. P. Rocks, fresh selected, from fine narrow barred birds of large size scoring 90 to 92½. Winning and laying kind, weighing 10 and 12 lbs. 15, $1.50; 30, $2.25; 100, $5. G. J. Pfeil, Central City, Ia.

BARRED Plymouth Rocks—Thompson, Felch, Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia.

B. P. Rock Eggs From best prize-winning stock, $1.00 per 15; $5.00 per 100. Send cash with the order. Address Mrs. R. J. Hargleroad, Arapahoe, Neb.

BRADLEY BARRED ROCK EGGS, 15, $1.50; 100, $5, good hatch guaranteed; few good ckls. for sale. Frank Santee, What Cheer, Ia.

B. P. R. Eggs (Easton, Shellabarger, Bradley Bros. strains), 15 for $1, 100 for $5.00. Toulouse geese eggs 50 cents each. Address James Cockerton, Whiting, Iowa.

B. PLYMOUTH ROCK EGGS, 30 FOR $1.00 100 EGGS, $3.00. M. B. turkey eggs, 13 for $3.00. Toulouse Geese eggs, $3.00 for 10. Address MRS. ROBT. HUNT, EARLVILLE, IOWA

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100, $4. Write for particulars. Grant Lynn, Spirit Lake, Ia.

Cut Rates White Rocks, White View Farm, Fishel strain. Eggs, $1 per 30, $1.50 per 50, $3 per 100. Mrs. C. E. Pugh, Menlo, Ia.

White Rock Eggs, $2.75 Per 100 Write B. W. ECKELS, NEVADA, IOWA.

WHITE Rocks, farm raised, Fishel strain, cockerels score 93½ to 96. Eggs, 15, $1; 50, $3; 100, $5. Address Mrs. A. H. Klepper, R. 1, Muscatine, Iowa

BUFF ROCK EGGS at reduced prices from high-scoring, heavy-laying strain, $2.50 per 50, $4 per hundred. Address L. C. Crum, Red Oak, Iowa.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

EGGS Pure-bred, fine white Plymouth Rocks, Fishel strain, heavy boned. Five cents per egg. Mrs. H. Wood, Moville, Ia.

15 Barred P. R. Eggs for 75c or $3 per 100. Pure blooded cockerels, weigh 10 to 11 lbs. Mrs. P. R. Coady, Melrose, Ia.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.25 per 15; $5 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

WYANDOTTES.

White Wyandottes. Egg prices cut in two. $3.75 per 100. Chicks one-third off. No chicks after June 15. After June 15 a large number of good breeders will be offered to make room for the 2,000 youngsters coming on. Your chance. Booking orders now. White Wing Poultry Farm. C 294, Perry, Iowa.

Silver Laced Wyandottes I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

WHITE WYANDOTTE EGGS $1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2, unscored, $15 per doz. **Ethel H. Shaw, Route 6, Newton, Iowa.**

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15, $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $1.50 for 15, $5 for 100. R.S.Tennyson, Clarksville, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs, $1 per 15; $2.50 per 50. W. H. Insley, Milo, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble. Mrs. M. C. Humphrey, Derby, Ia.

WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address **E. S. DYAS, Bellevue, Iowa.**

SILVER LACED WYANDOTTE EGGS 15, $1; 30, $1.50; 100, $4. Miss Julia Driscoll, Plainfield, Ia.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please; $5 per 100; $1.50 for 15. **Mrs. F. O. Elliott, Kent, Iowa**

PARTRIDGE WYANDOTTE EGGS. Fancy Buff Wyandottes. Order now. Thos. L. Morlan, Indianola, Iowa.

FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

White and Silver Laced Wyandotte Eggs, 15 for $1 100 for $5 Address Malmberg Bros., Route 4, Red Oak, Iowa.

WHITE WYANDOTTES EXCLUSIVELY

EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

DUCKS.

White Runner Duck Eggs

NOW $1.50 per 12. Orders filled promptly. Our Breeder for sale, plenty of time to hatch ducks yet. Send in your order. Address **Rahn & Son, Box 144, Clarinda, Iowa.**

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6. John M. Hall, Williams, Iowa.

FAWN AND WHITE AND PURE WHITE Indian Runner ducks. Eggs from Fawn and White, 15 for $1.00; 30 for $1.75; 50 for $2.50; 100 for $5.00. Eggs from pure White Runners, $2.00 per 12. Address E. A. KAUFFMAN, LOCKRIDGE, IOWA.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

Indian Runner Duck Eggs From a heavy-laying strain, 15 for $1.00, 30 for $1.75, 50 for $2.50. None but fresh eggs shipped. Edward Klinetob, Clarksville, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26; $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa**

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels, Oakland, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

DUCKS.

Indian Runner Duck Eggs

FAWN and white. pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. **F. P. HEALY, Bedford, Iowa.**

Fawn and White Indian Runner Duck Eggs.

FROM the Harshbarger Blue Ribbon strain. $1 per 15. Also White P. Rock eggs from fine strain. Bred to lay. Same price. M. A. Carty, Earlville, Ia.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Scheid & Sons,** R. 2, Prophetstown, Ill.

EGGS—Pekin ducks, headed by drake scoring 96½ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

ORPINGTONS.

WHITE ORPINGTONS

Egg prices cut in two. $3.75 per 100. Chicks one-third off. No chicks after June 15. After June 15 a large number of good breeders will be offered to make room for the 2,000 youngsters coming on. Your chance. Book orders now. White Wing Poultry Farm, C 294, Perry, Iowa.

RARE BARGAIN IN WHITE ORPINGTON EGGS

EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address **F. Fortmann, Box 23, Dyersville, Iowa.**

EGGS from two pens of White Orpingtons for hatching. One pen of Single Comb White Orpington and one pen Rose Comb White Orpington. Eggs $2.00 per 15 from either pen. Address Tom Sellers, 803 West Ellis St., Vinton, Iowa.

S. C. WHITE ORPINGTON

KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock; 15, $1.50; 30, $2.50. Frank G. Myers, Iowa City, Ia.

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S. C. BUFF ORPS. exclusively, eggs from high-scoring special mating, $1.50 per 15, $6 per 100; utility flock, $1 per 15, $4 per 100. Stock for sale. V. H. Conner, Shell Rock, Iowa.

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$1 per setting of 15. J. M Poole, Bristow, Iowa.

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EGGS from S. C. Buff Orpingtons. 15 $1: 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

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LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

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Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100 Write at once to Mrs. J. M. Dries, Ashton, Iowa

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EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address **R. R. STEWART, R. 2, Charles City, Iowa.**

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EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address **DAVENPORT & MACK, Belmond, Iowa.**

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition, colored males scoring to 93½. $1.75 per 50; $3.00 per 100. Address, mentioning The Homestead, Mrs. Will Michael, Selma, Iowa.

S. C. W. LEGHORNS

CHALK WHITE, six firsts at Des Moines, 1912. Eggs and baby chicks. Write your wants. **J. M. Williamson, R. 1, Des Moines, Iowa.**

ROSE COMB BROWN LEGHORNS, large, vigorous stock, strictly pure bred, have true Leghorn type, from best strains of layers known to breed. Eggs high fertility, carefully packed, 15, $1; 50, $2.25; 100, $4. Write Geo. Boyce, R. 3, Newell, Ia.

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Single Comb W. Leghorns Bred to lay and win. A strain of unsurpassed winter layers. 100% fertility guaranteed. Eggs at half price. Write for circulars. Address **R. S. Ketcham, Box H, Boonville, Indiana.**

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REDUCED S.C.W. Leghorn eggs. Young's, 100, $4; 100 including 15 eggs from pen 2, $4.50; chicks, $10, 100 after June 1. Mrs. Wilson McIntyre, Red Oak, Ia.

EGGLAND EGG FARM. Single Comb White Leghorns, bred to lay. Eggs, $1 per 15, $4 per 100. Address Eggland Farm. Mt. Vernon, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

S. C. WHITE LEGHORNS Eggs 15, 75 cents; 30, $1.75; 50, $2.00; 100, $3.50. Good clean stock. **Mrs. B. C. Marts, Hampton, Iowa.**

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Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

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S. C. W. LEGHORNS Young strain. A choice flock, excellent layers. Eggs, 30, $1.50; 50, $2.50; 100, $4.00. Dan McCarty, Winthrop, Iowa.

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M. B. TURKEYS, standard wt. and quality. 2 pens by 41-lb. old, 35-lb. young tom. Heavy boned. 10 eggs $4 and $3. Catalog. M. Henningsen. Dike, Ia.

MAMMOTH BRONZE TURKEY EGGS $2.50 per 11. Mrs. E. Millard, R. 3, Earlville, Iowa.

FOR SALE M. B. turkey eggs by express or parcel post, 30 cents each. Address F. J. Sexsmith, R. F. D. 2, Orient, Iowa.

S. S. HAMBURGS.

S. S. HAMBURG EGGS FOR HATCHING Address **H. C. SCHRAGE, BRISTOW, IOWA.**

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SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

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Langshan Eggs Large black eggs from stock scoring to 94. $1 per 15, $2.25 per 50, $4.50 per 100. Mrs. Geo. Tutt, Marathon, Iowa.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

BLACK LANGSHANS Scored by Hale & Bridges. Eggs, $2 per 15; $1 per 15; $6 per 100. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

EGGS from large heavy-boned, farm range, Black Langshans, score 91 to 95, $1.00 per 15; $5.00 per 100. Address MRS. J. H. RAYL, Afton, Iowa.

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White Guinea Eggs, $2.00 for 10.

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WHITE ROCKS Fishel strain. Eggs from show birds 13, $5.
BARRED ROCKS Eggs from Dripp's finely bred show birds. $1 per 13; $5 per 100.
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Eggs Reasonable

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BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

BARGAIN PRICES EGGS

S. C. R. I. REDS, $4 per 100; utility flock, special pens now half price, pens 1 or 2, $2.50 per 15, $4.50 per 30; pens 3 or 4, $1.50 per 15, $2.50 per 30; pens 5 or 6, $1 per 15. Address, mentioning Homestead, **L. G. Johnson, Box 4, Steamboat Rock, Ia.**

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

$1 PER 15, $5 per 100 eggs. Barred W. Buff Rocks. R. I. Reds, W. Wydts., B. Langs., Lt. Brahmas buff and white Orps., Leghorns. Toulouse geese, $1.75 per 10; white guineas, $1.50 per 12, bronze and white turkeys, $2 per 7. Monroe Poultry Yards, Monroe, Ia.

WANTED A large number of Bronze turkey and Toulouse geese eggs at reasonable prices. Address lowest offer and state amount you can furnish at once. **Des Moines, Iowa, P. O. Box 734.**

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EGGS Barred Wh. Buff and Partridge P. Rock. Buff Orpington, White Wyandotte, S. C. R. I. Reds, and Mammoth Bronze turkeys. Free catalog. Address A. D. Murphy & Son, Essex, Iowa.

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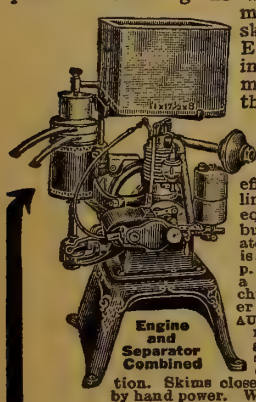

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FIRE PROOF FROST PROOF LAST FOR AGES

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THAT OTHER SILO.

To the Editor of The Homestead:

I do not know but we will have to put up another silo. It seems as if the first one has spoiled us. The first one was put up last fall. Before that we had felt that perhaps the silo question was more or less a matter of being out of the fashion. Then, too, some of the best farmers we had around us, men in whom we had confidence, told us they did not want any silo. By growing corn and cutting it dry as needed they could get along all right. One man went so far as to say that cornstalks do not lose much of their feeding value if allowed to stand out in the field all winter and cut as they are hauled in for daily use.

But this man never had had a silo. He was not acquainted with the benefits. We can see that now. So after the close of the first winter's work we are more in favor of the silo than we were last fall. Why should we not be? We have seen the effect of feeding corn that was sweet and full of juice. The larger flow of milk is an argument that is very difficult to get over. The cattle eat it with such relish and show their appreciation of our efforts to meet nature's demands upon them by putting more milk and better milk into the pail right along, and that, too, while butter has been bringing a good price. The silo does that for us, anyway. It makes winter dairying a profitable possibility.

But what about the second silo? Well, it stands just like this: There never has been a year since we came on the farm when the cows did not shrink quite badly along about the month of August. Then the pastures began to get short. The grass which was left was hard and woody, quite unlike what it had been early in the season. The flies, too, were more troublesome. The heat of the long summer days made it harder work for the cows to travel about the pastures. Once they had filled themselves up, they liked to creep off into some shady place and lie down to chew the cud and enjoy themselves.

So the flow of milk dropped off quite seriously. It took me a good while to really know what this meant. I was like many others: I just took it for granted that this was a part of the season's program. Cows had always fallen off in the late summer, and they would always do so; no help for it. Nature must have her perfect work. Why try to interfere with her?

Then came the summer silo. Just when the need was greatest, by opening the silo of corn feed put up last fall men could keep up the flow of milk, and that was a grand thing; for, finally, I learned how difficult it is ever to get a cow back on her normal flow of milk after she has once dropped off. The silo helped to maintain the milk yield and so prevented the dropping off of the milk and butter checks. The second silo did what never had been done for these men before.

So we are seriously considering the second silo. I do not know whether or not we will get around to build it this season or not. There are some other things that seem to stand first. One of these is to bring a spring of water down to the buildings. It may be that will be about all we can do this year. But if I do not miss my guess the new silo is in the near future.

E. L. Vincent.

PRODUCING CLEAN MILK.

To the Editor of The Homestead:

The standard and purity of milk is usually estimated by the number of bacteria present. The smaller the number of bacteria the more pure the milk. Near one of our large cities lives a milkman who makes a specialty of producing pure, sweet milk for babies. He is conscientious and painstaking and unquestionably produces the highest grade of milk on the city market. The city health department makes tests on all the milk offered for sale. They report the number of bacteria per cubic centimeter. Usually, the man mentioned above has a report

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A little investigation will prove to you that the truth of the matter is that you really can't afford to make cream or butter **without** the use of a DE LAVAL cream separator.

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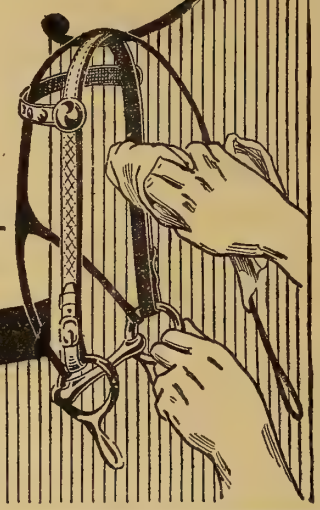

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will make you $10 to $15 a year more profit from every cow you own. They are handsome, high-grade, durable machines. No other separator costs more to make, has so many patented improvements or gives you as much value for your money. We prove this on your own farm, or no sale. Read this letter ☛

I would not exchange it for any other separator. It skims perfectly clean and is so easy to wash. ED. SCHMIDT, Davenport, Ia.

No. 5½ Skims 300 quarts an hour

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Note these special features: No disks to wash and rust out. Skimming Device is complete in one piece—made of aluminum—the "everlasting" easy-cleaning metal. Shelby Seamless Steel Bowl, phosphor bronze bearings, vertical shaft, rachet crank, self-draining bowl, low-down self-draining milk supply tank, closed bottom, open milk and cream spouts, oil-bathed ball-bearings and many other exclusive features.

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Contains letters from many users, large colored illustrations, shows how every part is made, and tells you all about our factory-to-farm self-earning separator plan. WRITE FOR IT TODAY.

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(15)

of about 10,000 bacteria. Others run as high as 125,000 per cubic centimeter.

It was to tell the story of that man producing milk with a wonderfully low bacterial content that these short paragraphs were started. Absolute cleanliness was his watchword. At a fair prizes were to be given for milk exhibited in the purest and sweetest form. Determined to win the prize he began in advance to prepare for it He selected four healthy heifers to be milked for the sample. They were heifers that had previously given a very uniform grade of milk. They were cleansed very thoroughly by currying and brushing. Then they were put into a clean milking barn that had been disinfected that day. The cows' udders were wiped off with a weak solution of carbolic acid. That was not sufficient. The bodies of the cows were covered with thin muslin sheets with openings only for the teats. The milker dressed in a clean, white suit and disinfected his hands before milking. The milking was done into a pail with a very small opening. The report of those who examined the milk was that it contained ninety bacteria and was as free from foreign matter as any milk ever produced.

This same man has astonished experts in other contests. Years ago he exhibited milk at a contest 1,500 miles from his home that was so low in bacterial content that other milkmen had experts looking for the preservative he had used. He had used no preservative. Cleanliness is his watchword. With him "eternal cleanliness is the price of clean milk." His barn is cleansed and aired out after each milking. The cows run in an open shed. They are brushed off before each milking. He produces clean milk by having clean cows, a clean barn, clean men and clean utensils.

H. E. McCartney.

FAVORS CONDENSERIES.

To the Editor of The Homestead:

I noticed in a recent issue of your paper a request for comparisons on selling milk to condenseries and cream to the creamery. We have had a creamery here for a number of years until two years ago. Four years ago they started a condensery, but I had always patronized the creamery and continued to for about four months after the condensery started, until I began to figure what I was getting per hundred pounds for my cream at the creamery and the price per hundred pounds for milk at the condensery. I found that I could make from forty-five to fifty cents more on the hundred pounds on the average by selling to the condensery and that the trouble to separate the milk and clean the separator twice a day would offset the worth of the skim milk. So I quit selling to the creamery and I guess most of the farmers thought the same for it put the creamery out of business.

Dallas Co., Iowa. C. W. Patch.

WHEAT PROSPECTS GOOD.

Present prospects are for the largest winter wheat crop ever produced in the United States. The condition of the crop, reported by the Agricultural Department at Washington, is 91.9 per cent, which compares with 91.6 a month ago, and 79.7 a year ago and a ten-year May average of 85.6. With two exceptions it is the highest May condition reported in fifteen years. The area remaining for harvest is 30,938,000 acres, which is 1,449,000 acres less than the area sown last fall, and 4,367,000 acres greater than the area harvested in 1912. The area abandoned is the smallest in fifteen years, except in 1908.

If the present condition is maintained until harvest the crop promises to be about 540,000,000 bushels. Allowing for a normal impairment between now and harvest (the average of the past five years is 51.1 per cent) the crop will be about 513,500,000 bushels 113,500,000 bushels more than the crop of 1912, and 73,500,000 bushels more than the average of the past five years.

Crop conditions are really better than the government report indicates, because of the abundance of moisture in the soil which makes it almost certain that no important impairment will occur during May.

5 Big Reasons

It wasn't just an "accident" or a matter of "luck" that made the Saginaw the leading Silo. There are reasons. Good reasons. FIVE good reasons. Here they are: **The Patented Angle Steel Rib, the Spline-Dowel, the Saginaw Base Anchor, the Saginaw Inner Anchor, and the All-Steel Door Frame.** No wonder the Saginaw laughs at wind storms. No wonder 587 Saginaws have been sold in a single day. No wonder five big factories are needed to supply the Saginaw demand. Farmers and Stockmen all over the country are simply delighted with the "Saginaw." And you will be, too, when you get our Book which pictures and describes the Saginaw. The Book is **FREE.** Send a postal for Book No. 34 and it will come by **return mail.**

The McClure Co. (formerly Farmers Handy Wagon Co.)
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Save $35 to $50

Yes sir, I'll save you $35 to $50 in the first cost alone on the best, most modern, most sanitary and closest skimming cream separator ever built. When you buy the

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—you pay just one small profit above actual cost of materials and labor. Why pay any dealer $85 to $110 for an inferior machine. Buy direct and save one-half. Get my

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test of this machine right on your farm. The new Galloway Sanitary skims to a trace, gears run in oil--easy to run--easy to clean. Sold direct. Backed by $25,000 bond. Write for new catalog and special 1913 offer that will help you get your machine partly or entirely without cost in the end. Write today.

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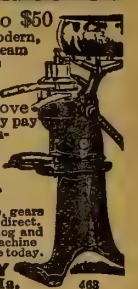

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I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

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Keep stock in disease-resisting condition.
Pratts Animal Regulator
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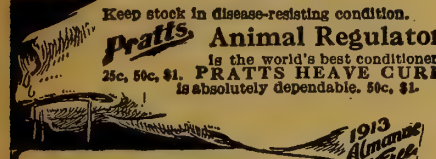

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

BLOODY MILK.

(1) Have a cow that gives bloody milk at times and other times she seems all right. The affection seems to be only in one part of the udder. She has been that way for about two months and so far I have not given her treatment. (2) Also have a steer that is lame in the pastern joint of right fore leg. The leg has broken now a little below the joint and is mattering freely. I could not see where anything had run into the foot. The affection, however, seems to be in the joint rather than the foot.

(1) Dry off the quarter, as it is incurably affected with garget. Twice daily rub that quarter with a mixture of equal parts of camphorated oil and fluid extract of belladonna leaves. It is good policy to test such cows with tuberculin, as tuberculosis of the udder may be present. (2) Poultice the parts with hot flaxseed meal for a few days and inject peroxide of hydrogen into the discharging places each time the poultice is changed daily. When discharge ceases rub the swelling with iodine ointment once daily.

OVERHEATED HORSE.

(1) A five-year-old bay driving horse pants considerable when at work and also on real warm days when he is not at work. I had him clipped last year, but it did not seem to do any good. Has his wind been hurt or do you think he has been overheated? (2) He also galls. What will prevent galls on his shoulders? Have a nine-year-old black horse that pants quite badly and although his coat turns dead and brown he does not shed off. He is in poor condition. Last fall he picked up some, but this winter had some bowel trouble that took him down. His appetite is not very good and although he eats grain and alfalfa pretty well he will not eat timothy hay.

(1) The horse has been overheated and will never be quite well for work in hot weather. Have him clipped spring and fall. Work him in cool of morning and evening. Do not feed any bulky feed at noon or work him soon after a meal. Allow drinking water often. (2) Wash shoulders and neck twice daily with strong alum water or a lotion composed of half an ounce of tannic acid in half a gallon of water and make the solution stronger if found necessary. Mix half an ounce of granular hyposulphite of soda in the feed night and morning for ten days. Do not feed corn or grass; but he may have oats, bran and hay. Treat both horses in the same way. Have the teeth of the thin horse attended to by a veterinarian.

GOITER.

I have a three-year-old bay mare that has been ailing for six or seven months. She eats well and is in good flesh, but it is impossible to drive her much more than a mile or quarter of a mile if I let her trot. She seems all right on the start, but before she goes very far she seems to give out and cannot get her breath. Her neck seems to swell on each side all along the windpipe from her head to her breast. This is gradually growing larger.

Without an examination we cannot be sure what is the matter; but it may be a case of goiter (enlargement of the thyroid glands). It would be best to have an examination made by a veterinarian; but if that cannot be done give her a dram of iodine of potash twice daily in drinking water for five censecutive days a week, for two or more weeks. Clip off the hair and rub the enlargement with iodine ointment two or three times a week.

Short-horn bull, Challenger, at the head of John M. Bay's Sunny Slope herd, Aledo, Ill. Sons and daughters of this good bull are listed for Mr. Bay's sale to be held June 4th, the advertisement of which will be found on page 21.

THIS WILL PROVE
That Your Hogs Have Worms

E. Myers, President, E. Myers Lye Company

For years and years I have been telling you farmers that a great part of hog sickness can be traced directly to worms—just ordinary, every-day **hog worms.** Yes, sir! and what's more I say to you that many of the hogs you own have worms **right now,** unless you have already cleaned them out with MERRY WAR POWDERED LYE.

Here's an easy way to **prove** the absolute truth of that statement: Go to your dealer's and get a 10c can of

Merry War Powdered Lye

Mix ¼ of it thoroughly with one barrel of swill and feed from it **twice each day, night and morning.** If your hogs are on dry ration, mix ½ can in each barrel of drinking water. You'll shortly see vast quantities of dead worms coming away from those hogs. **Seeing is believing.** You can't get away from **facts.**

Now then, as a practical farmer, do you believe that a hog can be well, thrive and put on fat—in fact, can he **live** long, if he's filled with worms? **Not much—he can't!**

Another thing: Don't imagine that just because your hogs are beginning to fall off in weight, snoop around, droop their heads and tails, cough and refuse to eat, that they have cholera. It's very likely worms—and you can easily and quickly **prove** it in the **safe** and inexpensive way I have pointed out.

So don't lose your hogs—it's not necessary. And don't vaccinate your hogs simply because you think they have cholera. **Vaccination won't kill a single worm.** And, take my word for it, **if you rid your hogs of worms they will be in prime strength to resist hog cholera.**

This Man Tried It And Knows

A. U. PATE, Blue Jacket, Okla., writes: "I have been feeding MERRY WAR POWDERED LYE to my hogs for worms. It beats anything I ever saw." Hundreds of other practical hog raisers have written telling of similar experiences with MERRY WAR POWDERED LYE as a destroyer of hog worms. Read their letters in our free booklet.

10c a Can at all Dealers MERRY WAR POWDERED LYE is for sale at most grocers, druggists and feed dealers everywhere, 10c per can (120 feeds). It is convenient to buy in case lots—4 dozen cans $4.80. **Costs only 5c per hog, per month, to feed regularly**—by far the best and much the cheapest hog insurance you can buy. If your dealers can't supply you, write us, stating their names. We will see that you are supplied and also send you, **free,** a valuable booklet, "How To Get The Biggest Profits From Hog Raising." **Order direct from us in case lots (4 dozen cans $4.80) if your dealer won't supply you.**

There Are No Substitutes

Don't experiment with ordinary, old-fashioned lye. **It might prove dangerous.** MERRY WAR POWDERED LYE is the specially prepared lye that is **safe** to feed to hogs. Full directions on each can.

Which Kind Do You Want?

E. Myers Lye Co., Dept 80 St. Louis, Mo.

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Not a cure-all but a **specific remedy for bone spavin.** We do not claim that it will cure ring bone, splint, cracked hoof and a thousand and one other things as many so-called spavin cures are recommended for. Bo-Spav-O is a specific remedy for **bone** spavin, and it **does the work.** Perfected only after years of careful study and experimenting by a successful veterinarian and practical liveryman. Tested in hundreds of cases before being put on the market. Sold throughout Wisconsin for three years and not a single failure.

This great remedy can now be had by every farmer and horse owner at reasonable cost. The remedy is simple and easy to apply. Does not blister, nor leave a scar or blemish of any kind. Removes and completely cures a bone spavin in three weeks.

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WILL NOT BLISTER
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Last Longest—Therefore Cost Less.

This cover affords absolute fly protection to the horse. Being made of 3-ply special hard-twisted yarns—full leather trimmed. The 5A Nottingham will last twice as long as an ordinary horse cover. It has extra Line Holes, Hook Hole and Trace Holes. Superior in material, workmanship, fit and appearance. Made in largest horse-blanket factory in the world. You save money when you buy a 5A Nottingham cover from your dealer, *because he buys direct from our factory.* None genuine without trade mark —5A. If your dealer can't supply you, write us and we'll see you get supplied.

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This new Gilson Engine represents the greatest value ever before offered in a gasoline engine.

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Write today for the proof and the facts. If you are looking for the best engine bargain there is, *this is it.*

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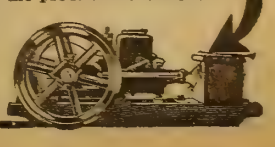

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

With the housecleaning finished, the garden well under way and the rush of the fruit season not yet upon her, the woman of the house may take a little time to enjoy herself and store up pleasant memories for the hot season when there is neither time nor energy for outings except of the simplest kind.

Although winter is the time for visiting on the farm, circumstances sometimes prevent women from getting together at that season for what they call a "good visit." What could be more delightful now than for them to meet in some pleasant wood or convenient grove, and there spend the day under the trees with their sewing and their children who will be happy as lambs if allowed to amuse themselves?

In many neighborhoods there is a pretty stream, or a little lake which invites to pleasure outings, and in others there is some place of interest to be visited. When a woman decides on an outing, resolves to have some social life, she can always find an avenue to some Land of Promise.

Last year the farmer's wife who had been confined to the house all winter through illness and bad roads resolved that she would "get things going," to make a change for herself. She arranged with several friends that they should meet at each others' homes one day each week and instead of bringing their work should help their hostess with making or mending as might suit her convenience. To spare the hostess labor of providing luncheon each woman brought something mutually agreed upon. The result was a series of informal parties which brightened up every woman of the group and led to an organization which has since made pleasant social opportunities for the whole section.

"But how can I manage about John's dinner?" asks some loving Martha. If Martha will tell her John that she wants a little holiday and wants him to help her get it she will find him not only willing but glad to eat a cold dinner—or to warm up something left handy.

HOME AND HOMEMAKING.

GIVE AWAY.

Shall we not open the human heart,
Swing the doors till the hinges start;
Stop our worrying, doubt and din,
Hunting heaven and dodging sin?
There is no need to search so wide—
Open the door and stand aside—
Let God in!

Shall we not open the human heart
To loving labor in field and mart;
Working together for all about,
The glad, large labor that knows no doubt?
Can He be held in our narrow rim?
Do the work that is work for Him—
Let God out!

Shall we not open the human heart,
Never to close and stand apart?
God is a force to give way to!
God is a thing you have to do!
God can never be caught by prayer,
Hid in your heart and fastened there—
Let God through.
—Charlotte Perkins Gilman.

GARDEN ON WHEELS.

Our "show piece," all last winter, was a plant box that the children made in the spring for their playhouse, because they wanted to do something in the flower-raising line when they saw their parents at work in the garden, says Suburban Life. A discarded wash boiler was put into an old metal box toy express wagon, where it just fitted. The boiler was half filled with fertilizer from a cow yard and rich soil put on top. Giant nasturtium seeds were planted, and the vines soon covered boiler and wagon. It was easily wheeled from place to place and when winter came was rolled into the dining-room where it retained its beauty all winter, being wheeled out on the porch on sunny days for a sun and shower bath.

FADED FROCKS.

Some one may have a pink cotton or linen dress in good condition, but badly faded. If so, put a piece of turkey red cheesecloth in water and boil until the color is the desired one. The dress, will dry a bit lighter than when wet and will leave an even color all over, says the Modern Priscilla. One-eighth of a yard of cheesecloth is more than enough for a dress. Navy blue cheesecloth may be used in the same manner to freshen the color of a light blue dress. It is best to try a sample of material in the dye to get the right shade before putting in the whole dress.

FOR THE COOK.

Chocolate Pie.—Four tablespoonfuls of grated chocolate; one pint of milk; yolks of two eggs; two tablespoonfuls of cornstarch; six tablespoonfuls of sugar; one teaspoonful of vanilla. Bake the crust, pour in the chocolate, beat the whites of the eggs with one-half cup of sugar. Spread over the top and brown. Delicious served with strawberries or strawberry shortcake.

Devonshire Cream.—Put two quarts of fresh unskimmed milk upon the range in a broad saucepan set in a pan of cold water. Bring very slowly to the scalding point and do not let it boil. That would spoil it. Keep it hot and never so much as simmering for nearly an hour. Then set in cold water and leave it thus, keeping the water cold with ice for six hours. By then the cream should be all collected upon the surface. Remove carefully with a broad skimmer and keep in cool place until you are ready to eat it.

Pieplant Marmalade.—Equal quantities of prepared pieplant and orange pulp, with their own weight in sugar and an extra cupful for the kettle, can be baked slowly to an excellent marmalade. Reduce the heat after the fruit is tender, and let it barely simmer in the sirup. Spice to taste, but taste will go wrong if you leave out mace and cloves. Free the orange peel of membrane, and boil it tender in salt water. This is to remove the bitterness. Throw into fresh water. When cool, pare away the white inside and cook for half an hour in clear water. Cut into fine straw with sharp, clean scissors, and stir the straws well through the fruit. Let cook till they are preserved through. Keep the pan off the stove bottom with a rack or wire shelf and thus you minimize the danger of scorching. Stir occasionally, but only occasionally, and very, very gently. When a drop hardened on a plate shows the right consistency, take from the oven, cool till milk warm, then pack in small jars. They may have paraffin on top, or oiled paper.

AMONG OURSELVES.

As long as the world lasts, as long as men and women marry and give hostages to posterity as the fruit of their union, so long will the subject of children and the various things connected with their rearing and well-being be of interest. All of which means that we welcome Mrs. L., who has ideas on the subject of child-training:

I want to say a few words on the training of children. Love must be the governing rule, but why say it is the rod of love? If we love our children we will punish them as God does his children. And God is love itself. Should we be wiser than God himself to adopt a new plan to show love? It would be no real love if we would not correct them. But to use a rod would indeed be very cruel. Use a switch. It will not hurt the body, just smart on the skin, and it will jerk them up to time if they are not too old before you begin. I don't mean to whip all children all the time, for children are different in disposition and temper. Try to talk and reason with them as long as it will help, but if they get stubborn and won't mind then show them by the switch that you mean that they should mind you. Never tease or provoke them about their faults. Be lovely, but strict with them so they understand it is their welfare and future good you are anxious for. It is right that we owe to our children with birth a good nature, well-balanced character, a healthy body and make their surroundings and environment the best. Even then we cannot rest assured that we have done our part. We need daily to pray for and instruct them, for the evil is still at work in this world.

The friends will not all agree with Mrs. L., but it is good for us to hear those with whom we do not agree. Nowadays there is a reaction beginning against the revulson from corporal punishment which led so many parents to err on the other side. To respect the rights of the child does not mean to allow the child to have its way when that way is not for its good, or even when it interferes with the good of others. It is for individual parents to decide on the course which seems wise for each individual child. And where their experience is likely to be useful to the other parents we are always glad to have them share it Among Ourselves.

Already the country housewife is finding the family washing bigger

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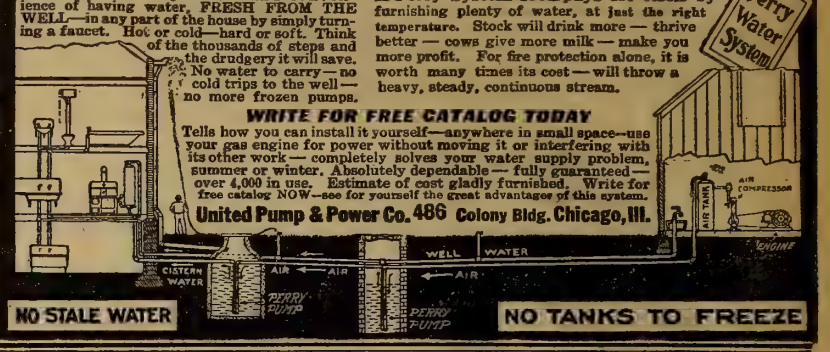

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On account of the ease with which work can be done with these trucks, they are fast coming into general use. Let us have your inquiry for prices.

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HAROLD SOMERS, 150 DeKalb Ave., Brooklyn, N. Y.

each week and many of her is sighing as she thinks of the summer. Perhaps what Mrs. R., has to tell us may suggest a way out for some overburdened one, even now:

I doubt if any task is more irksome to the average woman than a big, dirty, family washing. I know whereof I speak, for I am a farmer's wife, the mother of three little children and do all my own work. Though I had always used a washing machine the washing was done in the kitchen and with only one pair of hands to do the many tasks incidental to washday, at two p. m. I was usually just finishing the washing. After that the house work was to do, porches to scrub, etc., so that Tuesday found me too worn out to do the ironing. Last spring the good man of the house solved the problem by getting a power washer and gasoline engine. These were put in the cellar and as the cellar floor had been cemented and a faucet put in when we piped the water to the house everything was complete. I now can keep my house work going while the engine is running the washer, and the wringer, which can be reversed from washer to tub with one hand, it makes washday a pleasure. I can have everything done now by ten-thirty a. m., and have time to tidy up a bit before dinner. The outfit cost us about $105, the engine being the biggest cost (there are many cheaper engines on the market which will answer the same purpose), but as I do my churning and we expect to do the separating with the same power we consider the money well spent. I hope every man who may read this who has a hard-working wife will determine to get that wife a power washer and engine before the rush of spring work comes on.

There is no more reason why a woman should continue to wash in the old way than that a man should thresh in the old way. Let us get that well into our minds and then we are ready to consider the improved way of doing things. A woman's time and energy are just as precious as those of man. Sometimes it is necessary to sacrifice the woman for a time, owing to the fact that the man is the chief bread-winner. But let it be understood that the woman's needs are to be considered just as soon as it is at all possible to consider them. If the family exchequer is in anything like fair condition the woman should have modern labor savers to relieve her on washday. Let us hear more about such things. I wish more of our women who have water in the house, who have power to run their washing machines, who have easily operated machines that run without "power" would write about these things. Let us keep talking and keep trying to get the men interested and see if we do not accomplish something worth while.

Now, early in the season, is a good time to be thinking about a canning machine. Listen while Mrs. Junkin, of Arkansas, talks about hers:

I have received so many letters asking about canning and my canner that I will try and answer some of the questions through your paper, for I am glad to help others get started in the right way. A high-priced canner is not at all necessary. Mine with capping iron, tipping copper flue, solder, tongs and book of instructions only cost $10. The $6 canners do not include the other necessary things. There is nothing difficult about it with the instructions to go by; in fact, it makes canning so much easier. I can get out under the shade of a tree and put up forty-five cans of peaches, and, of course, more tomatoes, and do my other work and look after my baby in one day, and that just as easy as I can put up a dozen jars in the old way, and not be half melted over the cook stove. I can in both tin and glass and both keep equally well, but for market the tin is best, and always you have to be more careful with the glass to keep them from breaking. The fruit and vegetables are much nicer cooked in the jars. They are not cooked to pieces then and the flavor is much better. The canner I have has pipes on the order of a tubular boiler, so it heats the water in a very short time and will cook as fast as several can prepare the fruit or vegetables, about 150 cans per day. There is a crate that holds ten or twelve cans so that many can be lifted in and out at once. On wash day I put my clothes in the crate and put it in the canner and lift out all at once so it saves work on washday, too. An out-door furnace comes with it, but the boiler can be set on a stove. No kind of preservative is used. Some recipes call for sugar, some for salt and some for a "sweet brine" (salt and sugar). I am glad so many are getting interested in canning. It makes me tired to see canned tomatoes shipped here from New York when they rot in our gardens by the bushels and bushels. If there is any other information that I can give I will be glad to do so. I hope all will enjoy a lot of good home canned fruit and vegetables next winter. If you don't can some yourself buy from your neighbor.

It is inspiring to have such a canning experience related by one who knows by experience what a good canner can accomplish. I remember meeting a man some few years ago who was equally enthusiastic. He got out of work in the early spring time, and as there seemed small prospect of anything like steady employment he rented some vacant land and put in a lot of garden stuff. His hope of finding a market in the village being disappointed, he bought an inexpensive canner and in this way preserved his surplus. He had wonderful success and in the end made more than if he had sold the vegetables green. Here is a hint for those who live distant from market, and also for girls and boys eager to do something for themselves. Let us hear from others and so stimulate our young folks as well as encourage provision for winter vegetable supply.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 8, Gen. 43; 18,19,23-34. May 25, 1913.

JOSEPH AND BENJAMIN—THE STORY.

The fascination of the story of Joseph is that it is true. It is a cross-section of human life. You see the emotions and motives of mankind in action, stirring and impelling. That is what makes it universal and perpetually applicable. It has no provincial or racial limitation. That justifies so long exiled from it. He planned better than he knew. The scenes in this drama are shifted by a master hand. The men with their homely gifts and their youngest brother stand one moment timorously at the viceroy's palace gate. The next, wonderful to tell, they are sitting at table with him in his princely dining hall, arranged in precise order to their ages, not omitting Simeon, the hostage. Their natural trepidation about the money in their sacks has been first quieted, so that they can duly enjoy the feast. They so far forgot themselves that they could even be merry. It is a master stroke in the picture which represents Joseph so touched at the sight of his full brother, Benjamin, as to be compelled to quit the room in haste to shed tears, and on his return to serve five times the variety to Benjamin than to the others. The moral progress of Joseph's brothers appears when they show no resentment or envy at the decided preference given to their half-brother Benjamin. There is a parental benediction for the youngest of their company, but none for them. Five times as much goes from the regal sideboard to him as to the others. But if they note it at all, it is probably with pleasure. Again the health of their father is inquired for, but no special greeting is theirs. If their hearts were as of old, hateful jealousy would have certainly rankled there. Mark their advancement! Joseph certainly did.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

SPRING: A PROSE POEM.

(First Prize.)

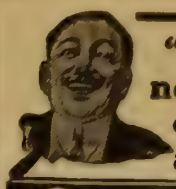
Softly from far away I hear the song of the meadow lark; it is spring. Everything is one sweet song; the low buzz of the busy bees, the cheery chirp of the robin, the soft murmur of the sparkling rill, the gentle sighing of the breeze, all blend in one soft melody.

One hears in every sighing breeze,
The symphony of spring.

'Tis beautiful music, more beautiful than any poet could ever put in words.

But the music is not all, ah, no! What would the world be without the trees; the trees now bending down with their flowery burden? Here pink, here white; how fresh and bright against the soft new green! While towering far above them all the branches of the elm, tinged with red, reach ever upward toward the azure sky and fleecy clouds. Far away on the grassy hillside the sportive lamblets play beside their gentle mothers, and down beside the rill I see a timid rabbit feeding upon the tender grass. A butterfly rests gently on a flower-laden branch, both beautiful and serene as he folds his pretty wings.

Oh, enchanting scene! No artist e'er



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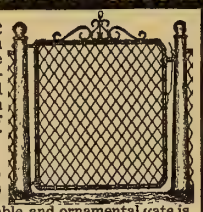

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The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

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Protect and Store Your Grain!

Keep rats, rain, etc. out. Hold for best market prices. Save time in filling and removing grain. The

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—can't rust, break or wear out. Costs no more than wood—lasts forever. Portable. Big door and convenient spouts. Send name on postal now for interesting booklet and low prices. Address

Bushnell Tank Works, 700 Dean St. Bushnell, Ill.

could paint a picture such as this! And as a perfume rare comes to me from the flowers, I close my eyes in rapture,

For I am satisfied.

—Lois Stewart, Ohio, age 15.

Honesty is the Best Policy.

(Second Prize.)

One night my grandfather came home very late. As he was unharnessing his horse he heard someone in his corncrib which was not far from the barn. He tied his horses to a post and went over to the corncrib to see who was there. He saw a horse tied on one side, and, as he looked around the corner of the crib, he saw a man. He did not make his presence known, as he wished to see who was there and what they were doing.

The man filled a sack with corn as he said, "Honesty is the best policy, but my critter can't starve." Then he was very still for a while as if thinking. He then said, "Honesty is the best policy, and my critter must starve." With that, he threw the corn from the sack, untied his horse and rode away.

The man was a neighbor of my grandfather's, so the next morning grandfather loaded a wagon full of corn and took it to him. He said, "If you had stolen the corn in the crib last night, I would have had you arrested, but as you were honest, this whole load of corn is for you." The man looked very thankful, and said, "Honesty is the best policy."

—Tiddley Winks, Ill., age 14.

My Trip To Colorado.

(Third Prize.)

When I was five years old I went with my mother and sister to Colorado on a pleasure trip. I had two uncles and aunts living there. We could see Pike's Peak from my uncle's. We visited many beautiful parks, and we went to see the Seven Falls. We went up to where Helen Hunt Jackson sometimes sat under the pines to write her poems, and when she died she was buried there. They showed us the burro that she often rode. We tasted the water in all the mineral springs. A little girl lived next door to my aunt's who was seven years older than I. She gave me a little dish; it was white and blue striped. I brought it home with me, and have it yet. One day I went to see the Garden of the Gods. It was a beautiful place. We stayed in Colorado a month.

HAZEL, AGE 5.

—Hazel French, Ia., age 13.

HOG FARM EQUIPMENT AND METHODS.

(Continued from page 3.)

nually. As a consequence there is a constant increase in fertility of the farm and a pleasing production of better crops.

While not all farmers are prepared to handle stock in the same proportion as in this instance there is no controverting the fact that the failure to keep cattle in greater numbers is responsible for decreased productiveness on many otherwise well conducted farms. There is no demand for expensive equipment or intricate methods. The exercise of common sense and an adoption of materials at hand and existing conditions are the essentials.

"Can't-Sag" Gates Save You BIG MONEY

Alvin V. Rowe, Pres.

Cost only one-third as much as ordinary iron, wire or gas pipe gates, but last twice as long. Neat in appearance—best and strongest gate made—light, easy to handle, opens both ways. Boards are double *bolted* between eight angle steel uprights and double truss braces. *guaranteed never to sag.*

Cost Less Than All Wood Gates—Last 5 Times as Long

Can't Sag Gates are furnished complete, ready to hang, or just the Gate Steels which include everything except the boards. Patent self-locking hinge feature—reinforced two piece malleable hinges. Six Triangular Truss Braces make gates extra strong.

Improved Elevating Attachment permits the gate to be raised full length from 5 to 30 inches, so small stock can pass under, and to swing over snow.

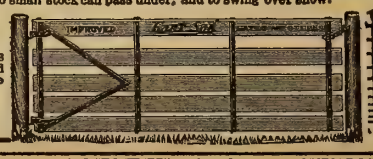
30 Days Free Trial and 5 Year Guarantee

Catalog shows both complete Gates and just the Steels, at prices you can't afford to miss. Send for my new catalog with free 30 days' trial and *freight prepaid offer.*

Alvin V. Rowe, Pres.

ROWE MANUFACTURING CO.

495 Adams St., Galesburg, Ill.



"Can't-Sag" Gates & Steels

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

4971 Children's Dress.—This dress is very simple to make. It is made in one piece, and slips on over the head. It is made with low neck and short sleeves. Linen, gingham or percale can be used to make this dress.

The pattern 4971 is cut in sizes 2, 4, 6, 8 and 10 years. Medium size requires 2⅛ yards of 36 or 44-inch material. Price of pattern ten cents.

4619 Children's Set of Short Clothes.—This set consists of a dress, drawers, petticoat and sack. The dress is made with a yoke. Lawn, muslin or cashmere can be used to make the dress. Any of the wash materials can be used to make the petticoat, drawers and sack.

The pattern 4619 is cut in sizes ½, 1, 2 and 3 years. Size 2 years requires for the sack 1 yard of 36-inch material, for the dress 1⅞ yards of 36-inch material, for the petticoat 1¼ yards of 36-inch material, for the drawers ¾ yard of 36-inch material. Price of pattern ten cents.

4786 Children's Rompers.—This garment can be made with high or low neck and with either the long or short sleeves. Linen or gingham can be used to make the rompers.

The pattern 4786 is cut in sizes 2, 4, 6 and 8 years. Size 6 years requires 2½ yards of 36-inch material with 4½ yards of braid. Price of pattern ten cents.

5775 Ladies' Waist.—This waist can be made with either the high or low neck and with long or short sleeves. It is made with deep arm holes and may have either the empire or regulation waist line. All-over embroidery or linen can be used to make this waist.

The pattern 5775 is cut in sizes 32 to 42 inches bust measure. Medium size requires 2½ yards of 36-inch material with 1⅝ yards of plaiting. Price of pattern ten cents.

5779 Ladies' Shirt Waist.—This shirt waist is made in middy style. It is made so that it can be slipped on over the head. Linene, madras or serge can be used to make this shirt waist with the collar and cuffs of contrasting material.

The pattern 5779 is cut in sizes 32 to 42 inches bust measure. Medium size requires 2 yards of 44-inch material with ¾ yard of 24-inch contrasting goods. Price of pattern ten cents.

A CHANCE TO BECOME A MEMBER OF A COMPANY MANUFACTURING WELL-KNOWN GOODS MANY YEARS IN MINNESOTA.

THOUGH product is nearly $300,000 yearly, as demand exceeds supply, wanting to increase our capacity, will take in partners to the extent of $15,000 or $20,000. If you want an interest in the coming business, here is your opportunity to buy shares of a capital stock, paying large dividends. Company is perfectly sound. Our references are Dun's and Bradstreet's Agencies. We only want this amount of additional capital. First come, first served. You may take whatever number of shares you desire, a large or small amount, but write quickly, if you want any, addressing our representative who is authorized to receive and forward correspondence to us, **L. K. LEE, Dispatch Bldg., St. Paul, Minn.**

Ask your neighbor to subscriber for The Homestead.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

May 27, P. J. Donohoe, Holbrook, Iowa.
June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.

June 3, Thos. Stanton, Wheaton, Ill.
June 4, John M. Bay, Aledo, Ill.
June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Rees & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.
June 13, Whitsett Bros., Preemption, Ill.

FIELD NOTES.

W. Doolittle, Woodland, Mo., pays express on O. I. C. pigs shipped at weaning time. His is one of the good herds.

F. W. Haning, Truman, Minn., is offering Red Polled bulls, including his present herd bull for sale. His advertisement appears on page 21 of this issue.

Chester White fall boars and sows are advertised for sale by A. C. Orme, Nodaway, Iowa, on page 22. He is pricing these at $25 each. Write him at once if you want one.

John I. Dripps, Springville, Iowa, is offering eggs from his White Rocks of official strain from his foundation stock which cost $20 for the cock and $8 each for the hens. His White Leghorns are extra good layers. Send him your order and you will be pleased with results.

W. M. McLaughlin, Shelby, Iowa, is offering some choice Scotch bulls for sale among which is a good herd bull that any breeder can afford to buy. Go and see these bulls as soon as you can and if you are on the market for a herd header you will buy one from Mr. McLaughlin.

Some splendid young Short-horn bulls are offered for sale by J. G. Westrope, Harlan, Iowa, on page 23 and he is making prices on these that any farmer can afford to buy. Make it a point to go and see these bulls as soon as possible or send him an order and let him pick out your bull.

The attention of those who are interested in Guernsey cattle is directed to the advertisement of the Wilcox & Stubbs Company, on page 12. These gentlemen are now offering for sale a number of registered cows and heifers as well as several bulls of serviceable age. Address letters to Wilcox & Stubbs Co., Des Moines, Iowa.

F. Bollman, Wall Lake, Iowa, is offering Scotch Collie puppies for sale as will be noted in his advertisement in the proper department. T" pups are two months old and their sire and dam are first-class workers and good watch dogs. They are sable and white and black and white, healthy, lively and correctly marked. Note prices in the advertisement.

The 5A Nottingham horse covers advertised on page 13 should be considered essentials on every farm during the summer season when they go far toward protecting horses from the attacks of flies. Most dealers can furnish them. They may be obtained, however, direct from the manufacturers, Wm. Ayres & Sons, Philadelphia, Pa.

John I. Dripps, Springville, Iowa, has been advertising eggs from his fine flocks of White Rocks, Barred Rocks and White Leghorns. He can still supply the wants of our readers. Mr. Dripps has a herd of forty-five Holsteins, a flock of 100 Shropshires and an excellent herd of big-type Poland Chinas. Only the best of pure-bred stock is given a place on his farm. More information regarding his Polands will appear in this journal shortly. See page 10.

The Sterling Poultry Farm, Sterling, Ill., in instructing us to continue their Single and Rose Comb Rhode Island Red advertisement appearing elsewhere in this departments, write: "We have over 400 little chicks and 3,100 eggs sitting, twenty hens and eight incubators. We have about 400 Single and Rose Comb Rhode Island Red breeding birds and will have about 200 hens to sell at from $1 to $2 each after June 1st. Our eggs are hatching well and the chicks are strong. We have won nine silver cups, including sweepstakes and color and shape specials at large shows. Our birds are heavy layers and are housed in open-front houses."

G. H. Tutt announces on page 21 that he is now prepared to furnish customers with twelve or fifteen extra good Chester White bred sows. Some of these have been bred to farrow soon to a son of the grand champion sow at the Iowa State Fair of 1912. This hog is one of the two offered for sale. The other is Counselor 21783, a great big fellow with an eleven-inch bone and right every way. Mr. Tutt's stock comes from foundation that possesses size, bone and quality and is sure to be profitable to buyers. Address inquiries to G. H. Tutt, Marathon, Iowa.

One of the pleasures of driving an automobile is to be able to cover new roads at night, which is really the most agreeable time for pleasure travel. The essential thing, however, is a good light, one which is dependable at all time. The advertisement of Prest-O-Lite, which appears on page 7 presents the claims of that method of consideration. The big statement is made that no other light is so cheap, so good, so dependable or any more convenient. It would seem that little is left to be asked if these claims are fulfilled. That they will be is made plain by the remarkable guarantee under which it is sold. Read the advertisement. You may try Prest-O-Lite for thirty days free and any dealer will equip a car without additional charge. At the end of that time, if it should not be satisfactory your, money will be refunded. For all information with reference to Prest-O-Lite address the Prest-O-Lite Co., 420 East South St., Indianapolis, Ind.

In these times much of the success in growing plants and fruits depends upon the use of insecticides at the proper period. A special sort called Bug Death is advertised on page 5. It has many advantages. Complete descriptions may be obtained by writing to Danforth Chemical Co., Leominster, Mass.

There is always room for more information on the subject of corn culture. A good deal of it, and that of a character which makes it of value to every farmer, is contained in a new book called "Corn Facts." It is advertised on page 7 and may be obtained by writing to Ballor Plow Co., 1345 Main St., Atchison, Kan.

The cream separator advertised by the Beatrice Creamery Company and page 11 is one which, in simplicity and effectiveness, has few equals as shown by its enviable reputation. It is made in three sizes and sold at remarkably low prices. For catalog address Beatrice Creamery Co., Des Moines, or either of the offices named in the advertisement.

French dry cell batteries are advertised on page 7 of this paper. These have to do with furnishing electric light for farm purposes. Sometimes the advertisement gives a good deal of interesting information. Other valuable and important facts bearing on the subject may be secured by lling out the coupon at the bottom of the advertisement and mailing it to French Battery & Carbon Co., 2 Inca St., Madison, Wis.

Health, convenience and economy all unite in demanding that every farm home be supplied with a system for providing fresh water for household purposes. The Perry Fresh Water System advertisement on page 10 is one of the most successful that can be obtained. Read the advertisement fully. Additional facts may be learned in a free catalog, for which write to United Power & Pump Co., 487 Colony Bldg., Chicago, Ill.

The Northwestern Milling Company, Minneapolis, as a means of creating interest in the Ceresota flour which they manufacture, have prepared and published in attractive form the Ceresota cook book, which contains a number of remakably good recipes and these are presented in such form as to be easily understood and make their success sure. All instructions for mixing ingredients are paragraphed and numbered in their proper order. This, of course, prevents any variation in results and make the preparation absolutely plain. The book may be had free by writing to the address named above.

Buy Bulls Young.

Geo. S. Redhead, Des Moines, Iowa, has for sale a number of high-class Jersey bull calves. Those who buy these calves may have them shipped in crates, thus reducing the cost of express charges most materially. Complete descriptions and special low prices for sales this month may be obtained by writing to Geo. S. Redhead, Des Moines, Iowa.

Irvinedale Farm Spring Importations.

After a most satisfactory trip to France and Belgium, Chas. Irvine may now be found at Irvinedale Farm with something like forty head of Percheron and Belgian horses, to which he invites the attention of prospective buyers. Mr. Irvine was among the first Americans to visit the Percheron-producing territory this year, and having the pick of 250 Percherons that were offered for sale, he obtained some magnificent gray two-year-old stallions and mares that have both size and quality as well as other characteristics that good horse buyers are looking for. In Belgium he picked up a few of the tops of two-year-old stallions and some of the best mares that were for sale. Among the latter are a pair that have won several first prizes at the big Belgium shows. The Irvinedale Farm advertisement will be found on page 21. With forty head of stallions and mares of the two breeds named, buyers may certainly find something particularly attractive. As the number of animals is rather more than can be well cared for some prices below competition will be offered for quick sales. Buyers will be met at Ankeny which is reached by the Chicago & Northwestern Railroad and the Fort Dodge Electric line. Address inquiries to Chas. Irvine, Ankeny, Iowa.

Schug's Poland Chinas.

One of Nebraska's foremost breeders of Poland Chinas who has a good crop of pigs this season is R. A. Schug, Coleridge, formerly the owner of the grand champion boar, King Mastiff. Mr. Schug sold the old boar some time ago at a long figure and now has at the head of his herd the great young hog Great Columbus. This boar is a son of Tim Neuhofel's great show and breeding boar, The Big Orphan, and he is out of Lady Rose 2d, the dam of that sensational litter that Mr. Neuhofel had out last fall. He is one of the best sons of The Big Orphan we have ever seen. He is going to be large, has a splendid arched back, decidedly masculine in his makeup and stands on the best feet with his legs under the corners. He has all the ear marks of making a splendid herd boar. He has seven litters by him and they look good at this time. He also has three litters by the old champion King Mastiff and these are very promising pigs. He has a number of litters by Nebraska Model and a few by a boar called Big Kind, he being a son of Crow's Kind, also one litter by Farver's Goliath, that well-known boar at the head of the Farver Bros.' herd at Ocheyedan, Iowa. Mr. Schug has a splendid line up of brood sows in his herd and he has quite a number of fall yearlings that he will hold for his winter's sale. Later in the season he will have some good boar pigs to offer and we will then tell you more about them.

Angus Bull Bargains.

On page 23 H. R. Davis, Corning, Iowa, advertises some good young Aberdeen Angus bulls for sale. He has a two year old sired by Blackbird Dan and several younger bulls sired by Sir Blackbird. As he wants to dispose of these bulls he is therefore making the price right. Write him at once about them or better go and see him yourself.

Short-horn Females for Sale.

In an advertisement on page 21 Geo. D. Harrah announces that he is prepared to sell some excellently bred Short-horn heifers, among them some belonging to the Victoria, Orange Blossom, Duchess of Gloster and other popular families. Buyers will find a large herd to select from and will be met at train if notified. Address inquiries to Geo. D. Harrah, Newton, Iowa.

B. C. Marts has Misfortune.

B. C. Marts, Hampton, Iowa, had the misfortune to lose his barn, hog house and granary by fire on May 10th. No live stock was burned. He had an abundant supply of seed corn that burned and he feels this loss considerably as he had labored hard to select his seed early in the season. The Homestead extends sympathy to Mr. Marts. He has seventy-five nice Duroc Jersey spring pigs that will be in nice shape for the fall and winter trade.

J. H. Barr, the Auctioneer.

With this issue of this paper, J. H. Barr, Hebron, Neb., starts an advertisement in which he solicits a share of the pure-bred auction business of the readers of this paper. The writer wishes to say that Mr. Barr is a man of high character, one that is thoroughly posted on live stock values, and one that understands the principle of expert salesmanship. Mr. Barr has been in the pure-bred live stock auction business for the past several years, and has been crying sales for about fifteen years. The writer has worked on sales with Col. Barr and we want to say that we think him perfectly capable to handle any of the pure-bred stock sales in the country. We know that he has always gotten the high do ar, and that he has always treated his buyers with courtesy and his reputation for fair dealing and honesty is not questioned by those that know him at all. It is this sort of man that the up-to-date breeder and stockman wishes to employ and no mistake will be made if Col. Barr is employed. Give this good auctioneer a trial. If possible place him on your sale that you have already booked as second man, and then decide for yourself if you wish him again. The chances are decidedly in his favor, and you owe it to yourself to have your stock well sold. When writing kindly mention this paper. See page 21.

Saunders Selling Bulls.

In a recent letter from C. A. Saunders, Manilla, Iowa, that well-known breeder of Short-horn cattle, he has the following to say: "I thought I would let the readers of The Homestead know what we have been doing in the bull business of late and am therefore dropping you a few lines. I have just sold a good white bull to Frank Brown, West Side, Iowa, also one to March Bros., Litchfield, Minn. The latter bull is a full brother to Cumberland's Dictator, the bull that we sold to Owens Bros., Homestead, Iowa, in our last sale at $805. We also sold a good bull to Haakon E. Thormedsgard, Alcester, S. D., and another good one to A. R. Fennern, Avoca, Iowa, six to A. N. Hotchkis, Moorehead, Mont., and they were good bulls and at prices that would make the farmers shudder. Three of my best bulls went to S. S. Spangle, Milan, Mo., one to W. M. Smith, West Branch, Iowa, and one to A. L. Clopping, Weston, Iowa. The last three were out of Royal Cumberland, the bull that I sold to the Allen Cattle Company, Colorado Springs, Colo., for $3,000, and I think they were three of the best bulls I have ever sent from the Greeley Stock Farm. I also sold another choice young bull to Howith Bros., Dow City, Iowa, and another good one to J. D. Hanson, Irwin, Iowa. Bull business has been good with us and we have a few more very choice ones to sell. If you want a real choice herd header we are in position to fit you out." When writing Mr. Saunders kindly mention The Homestead.

C. W. Hutchins' Polands.

Many readers of this paper will be glad to learn that C. W. Hutchins, Weeping Water, Neb., has one of the best crops of pigs that he has ever raised. This herd is one that has been built up from the very best stuff that could be had, and the results are apparent in the fine lot of pigs on the place this spring. Mr. Hutchins enjoyed a good demand for his surplus which were advertised in The Homestead last season, and the stock that will be offered this year are still better than those of a year ago, for the reason that most of the pigs from the very best sows, and the earlier ones of them all were lost with the bad weather a year ago. This season he has saved a big per cent of all the pigs farrowed. The grand breeding boar, Half Ton 2d, by Hill Croft Halfton is the sire of a number of the good ones, and the remainder are by Long Harve. by Big Tom. Long Harve is out of Wonder's Lady by Big Victor and she is out of Lady Wonder's Best, the great breeding sow of the Lonergan herd. Long Harve is a litter mate to the Geo. Kissinger boar, Big Martin, and the Kissinger boar is rated as one of the best of the state. Mr. Hutchins will make a sale the latter part of October, and will put up a grand good lot of stuff. A couple of good strong fall boars are for sale, and they are by Half Ton 2d. They are priced where any farmer can buy. When writing mention The Homestead.

ST. JOSEPH VETERINARY COLLEGE

RECOGNIZED by the United States Department of Agriculture. Profession not crowded. Positions open to graduates, state and county veterinarian, U. S. veterinary inspectors, U. S. army veterinarian, teachers in veterinary and agricultural colleges. Private practice unlimited. Veterinary inspector's salary, $1,400 per year. Address F. W. Caldwell, Pres., 4th and Sylvania Sts., St. Joseph, Missouri.

How Will the Tariff Affect Your Wool?

Just now, as new tariff laws are about to be enacted, wool growers everywhere are asking us what will happen to the price of wool. Market conditions are so uncertain that these men want our advice. They want the benefit of our 47 years experience. To keep our 60,000 customers posted and save them from selling at the wrong time, we have decided to issue Special Market Reports right along, until this tariff agitation is over. Each customer will receive, FREE, a copy of each Special Report. But we aim to print, each time, only as many Reports as are wanted. If you, reader, want our Special Reports as are wanted, we will be glad to send them to you free of charge, provided you let us know now, in advance. Please don't get the idea that this puts you under obligations to us. You are welcome to this service, whether you sell your wool to the Mills, through us, or whether you sell to wool buyers.

This is certainly a remarkable wool season, and no man with 200 pounds or more should agree to sell his clip until he knows "inside" market conditions.

WRITE! Merely send name on postal. That puts you on mailing list all season. Our next Special Report is just ready for mailing. If you rush your postal in today, you'll get it. (11)

S. SILBERMAN & SONS
Desk 27, 1117 W. 35th St., Chicago, Ill.

DRAINAGE You can drain your land without digging a ditch. Write for circular at once.
VERTICAL DRAINAGE CO., Clinton, Iowa

GOOD smoking or chewing tobacco. Kentucky Natural Leaf mailed anywhere, 30 cents per pound. Novice Harper, Box 475, Mayfield Ky.

Poland China Fall Boars for Sale.

The man that is wanting to buy a good Poland China fall boar should read the advertisement of A. H. Windom, Nodaway, Iowa, on page 21 and send him an order right away. He is offering twelve head of boars for sale and they are all sired by his 950-pound boar, Pawnee Nelson, regarded as one of the greatest Poland China herd boars in western Iowa. These fall boars are right and they will make good herd boars. They are out of good sows and they are bargains at $40 and $50. Don't overlook this chance to buy a good herd-boar prospect, but get your order to Mr. Windom at once. Please mention The Homestead when writing him.

Putman & Sons's Durocs.

With a good crop of spring pigs and also a fine lot of fall gilts and boars, Putman & Son, Tecumseh, Neb., are in line for a season of good business. This herd is one of the best known of the country, and their reputation for good hogs is going to be advanced a bit, if such is possible. A nice lot of fall boars, many of them real show and breeding propositions will be for sale from now on. These boars are mostly sired by Put's Top Col. by Morton's Top Col. also Ohio Col., the great breeding boar that has been in use in this herd for some time. One extra choice boar, a herd header of the highest sort and a real show boar as well, is sired by Put's Top Col. and out of Chief's Maid 2d, out of the champion sow Chief's Maid. Chief's Maid 2d is sired by Col. Chief the fifth prize boar at Lincoln last year. Col. Chief has sired a lot of extra good stuff, and this boar we now mention is no accident. He comes of an extra good family. We would recommend him to those looking for a herd boar. Some others almost, if not quite as good, are by Put's Top Col. and out of a daugher of Lincoln Wonder. A junior yearling show boar is Model Chief and Advance bred and he is right. Keep the herd in mind, and remember that if in search of a really toppy fall boar, that this is the place to buy one. Kindly mention this paper when you write.

E. L. Busch's Durocs.

One of the nicest bunches of spring pigs the writer has seen to date are on the E. L. Busch farm at Syracuse, Neb. Mr. Busch has been a buyer of high-class breeding stock for the past few years and is a stockman of ability. The greater part of the spring crop of pigs are by Model Advancer, he by Advancer No. 1 by Advancer and his dam is Model Hope, by Golden Model. This is a line of breeding and a particular cross that has made good. A very nice sow is Lucy's Babe and by Wallace's Wonder has a nice litter by the great breeding boar, Golden Model IV. These pigs are a little late, but they are very fine and thrifty. A sow by High Col. has a very fine litter by Golddust Chief, the well-known boar in use for some years in the herd formerly owned by Fred Steinbach, Yutan, Neb. A nice gilt by the prize-winning Crimson Critic has a litter by Watt's Hero by Watt's Model. About as nice a litter as any is sired by the champion Beauty's Model Top, the boar used and shown extensively by Sheley & Clatterbuck, Missouri. This litter is out of a sow by Col. Primm. Some of the young things that these men have been showing the past season are of this mating. We want to say that Model Advancer is siring some very good stuff and The Homestead readers that buy the produce of this boar will not be disappointed. Mr. Busch will hold a sow sale on February 23d, and the writer bespeaks careful con-

DIAMOND EMBLEM.

Short-horn Breeders

OPPORTUNITY KNOCKS

At Your Door Calling Attention to the

SUPERB OFFERING of BULLS

To Be Sold at the

Bellows Bros. Sale

MARYVILLE, MO.,

JUNE 10, 1913

CORNERSTONE.

12 BULLS BRED BY US 12

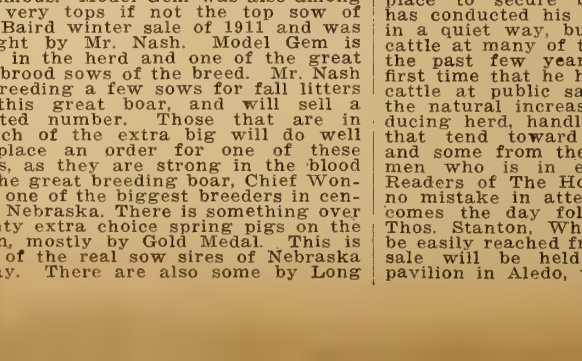
8 Rich Roans, 4 Reds. 6 by the Prize-Winning Diamond Goods.

These are without question the best lot of bulls that have ever passed through one of our sale rings. Every bull is a good one and most of them good enough to creditably head any herd in this country.

37 FEMALES--17 CALVES AT FOOT AND COWS--37

Mostly Rebred to Our Best Herd Bulls

The catalog gives an individual description of each animal to be sold and we will be pleased to send one to all who are interested.



SULTAN'S CROWN.

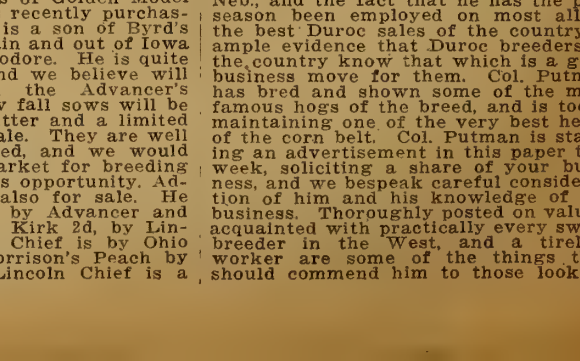
We extend you a cordial invitation to attend the sale no matter whether you are in the market for Short-horns or not. Bring your neighbor with you.

—

BELLOWS BROS.

MARYVILLE, MO.

AUCTIONEERS:
Woods, Jones, Reppert and Hosmer



MILDRED'S SULTAN.

sideration for this offering. Mr. Busch will be seen at the state fair this fall. Keep him in mind and do not fail to look for him at that time.

Zimmerman Sells Cloverdale Hadley.

In a recent letter from W. E. Zimmerman, Neola, Iowa, he says: "I have just recently sold my old boar Cloverdale Hadley to Mr. Williams, Silex, Mo., and he is well pleased with him. This boar has been one of the very best breeding boars I have ever owned and his pigs have always been good sellers with me. Some of the very best sows ever sold by Mr. Cavett, the breeder of Cloverdale Hadley, were sired by him. He cannot help but do good for Mr. Williams, as he is not only a good breeding boar, but he is also a good individual. My spring pigs are doing fine and my present boar, Pawnee Price, is going to be a most excellent breeding boar. This hog is a son of Smooth Price and is therefore a half brother to Big Joe and Big Ben in the Fesenmeyer and Pfander herds. I am going to make my sale on September 10th, when I will have one of the best offerings that I have ever sold since I have been in the business. Just tell the boys to remember my sale and say to them that I am going to have as good a line of boars in this sale as anybody will have this fall." We will tell The Homestead readers more about the Zimmerman offering later in the season.

Nash & Son Have a Great Boar.

One of the very biggest two-year-old Poland China boars that the writer has ever seen is owned by Nash & Son, Minden, Neb. This boar is just a little past two years old, in rather spare flesh and weighs over 800 pounds on the scales, as the writer weighed him a few weeks ago. In good breeding condition this boar is now a 900-pound boar and looks like he will go well past the 1,000-pound mark when he is matured. He is sired by one of the biggest breeding boars of the whole Expansion family, namely, Baird's Expansion. He is out of the first prize under-six-months sow, Nebraska State Fair, 1910. She was Model Gem by Big Columbus. Model Gem was also among the very tops if not the top sow of the Baird winter sale of 1911 and was bought by Mr. Nash. Model Gem is now in the herd and one of the great big brood sows of the breed. Mr. Nash is breeding a few sows for fall litters to this great boar, and will sell a limited number. Those that are in search of the extra big will do well to place an order for one of these sows, as they are strong in the blood of the great breeding boar, Chief Wonder, one of the biggest breeders in central Nebraska. There is something over eighty extra choice spring pigs on the farm, mostly by Gold Medal. This is one of the real sow sires of Nebraska today. There are also some by Long Jumbo by Wade's Jumbo by Wintermute's 1,000-pound Jumbo. Nash & Son will make a fall sale October 22d. Should you write kindly mention The Homestead.

Iowa State College.

The advertisement of the Iowa State College will be found on page 8 of this paper. The institution is better than ever prepared to furnish practical education to the young men and young women of the farm. The catalog shows that six four-year courses in agriculture and home economics are provided. There is a two-year course for boys and a two-year homemakers' course for girls. No farm can afford to be without one of these catalogs. Address C. F. Curtiss, dean, Iowa State College, Ames, Iowa.

Bay's Short-horn Sale.

A desirable lot of Short-horn cattle will be submitted at public sale June 4th, at Aledo, Ill., by John M. Bay, who has spent a lifetime in the cattle business. Forty head are cataloged for this sale, and buyers will find them a good lot of cattle. About one-half of the offering is of Scotch breeding, the balance being the best American families topped out with several generations of Scotch sires. There are a number of young things in this sale by Challenger, the good bull at the head of Mr. Bay's herd, that will bear inspection. This bull has proven himself a strong sire, and all of the females of breeding age in the sale are bred either to Challenger or to Roan Goods, a grandson of the champion Choice Goods, out of a First in the Ring dam. This bull is included in the sale, and will suit some man wanting a strong rugged bull. Some very attractive Scotch females in this offering that will be good additions to any herd. Eight sons of Challenger are listed, and the lot includes some good ones. Challenger 2d is a Victoria, a roan yearling, very thick and meaty, with a good head and horn. Beauty's Lad is a Queen of Beauty, and there is an Acanthus, a Lustre and some Scotch-topped Young Mary calves, all forming a lot of good, smooth reds and roans of much promise. Buyers will find this a good place to secure bargains. Mr. Bay has conducted his breeding operations in a quiet way, buying a lot of good cattle at many of the big sales during the past few years, and this is the first time that he has ever offered any cattle at public sale. The cattle are the natural increase of a strong producing herd, handled under conditions that tend toward future usefulness, and some from the herd of a gentlemen who is in every way reliable. Readers of The Homestead will make no mistake in attending this sale. It comes the day following the sale of Thos. Stanton, Wheaton, Ill., and can be easily reached from that point. The sale will be held in a comfortable pavilion in Aledo, which is the county seat of Mercer county, and can be reached by the Burlington railroad and also by the Rock Island Southern, an interurban line, from either Rock Island, Monmouth or Galesburg. Look up the advertisement on page 21 and write for a copy of the catalog to John M. Bay, Aledo, Ill., mentioning The Homestead when you write.

Urbandale Poland China Farm.

In an advertisement on page 21 F. E. Jackson, Hurley, S. D., informs our readers that he now offers for sale a number of fall and spring big-type Poland China boars as well as gilts, all sired by Dale Expansion. This hog is an animal of unusual merit. His blood lines are those which give promise of size and quality. He was bred by Henry Dorr, Remsen, Iowa, and his sire was Dorr's Expansion by Old Expansion. His dam was a daughter of Dorr's Tecumseh, he by a grandson of Chief Tecumseh 3d. On the side of the second dam he traces to Chief Tecumseh 3d, Guy Wilkes 2d and Look Me Over, all hogs of extraordinary size and unusual quality. Mr. Jackson also offers for sale a number of choice sows bred to Dale Expansion for fall litters. The Jackson herd contains animals bearing the blood of Blue Valley Quality, Pawnee Chief, Longfellow, Big Hadley, Big Prospect, Big Victor, Chief Price and other sires that have done much to establish the superiority of big-type Poland Chinas. Details concerning breeding may be learned from a handsomely printed catalog which Mr. Jackson has recently issued. The catalog or special prices offered may be secured by writing to F. E. Jackson, Hurley, S. D.

John T. Stadler's Durocs.

One of the careful buyers of the very best Durocs to be found in the state is John T. Stadler, Minden, Neb. The writer called on him recently and found that he had saved a fairly good crop of spring pigs, and that they were extra good. They are all sired by Advancer's Wonder, and by the way, one of the best breeding boars that we have seen in some time. A mighty choice lot of fall sows are on the farm, mostly the get of Advancer's Wonder and out of daughters of Golden Model 5th. Mr. Stadler has recently purchased a new boar. He is a son of Byrd's Wonder by C. W. Again and out of Iowa Belle by Iowa Commodore. He is quite a fine young boar and we believe will mate very fine with the Advancer's Wonder Stuff. A few fall sows will be bred for early fall litter and a limited number will be for sale. They are well worth the price asked, and we would urge those in the market for breeding stock not to pass this opportunity. Advancer's Wonder is also for sale. He is by Advancer 5th, by Advancer and out of Miss Crimson Kirk 2d, by Lincoln Chief. Lincoln Chief is by Ohio Chief and out of Morrison's Peach by Crimson Wonder. Lincoln Chief is a litter mate to Lincoln Wonder and he has sired a lot of wonderfully good stuff. Should you write mention The Homestead.

Big Doll For You

D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.

902 Popular Bldg., DesMoines, Iowa

W. M. Putman, the Auctioneer.

Few men in the country are so well schooled in the breeding of pure-bred hogs as Col. W. M. Putman, Tecumseh, Neb., and the fact that he has the past season been employed on most all of the best Duroc sales of the country is ample evidence that Duroc breeders of the country know that which is a good business move for them. Col. Putman has bred and shown some of the most famous hogs of the breed, and is today maintaining one of the very best herds of the corn belt. Col. Putman is starting an advertisement in this paper this week, soliciting a share of your business, and we bespeak careful consideration of him and his knowledge of the business. Thoroughly posted on values, acquainted with practically every swine breeder in the West, and a tireless worker are some of the things that should commend him to those looking

At Holbrook, Iowa, Next Tuesday, May 27th.

WILL occur the sale of high-class Aberdeen Angus bulls and females to be held by P. J. Donohoe and Wm. Cash. This is one of the best bred and best individual offerings of Angus that have been sold at auction. Nearly all the great show and breeding bulls of the breed are found in the pedigrees of the cattle listed. These cattle have a right to be good because their immediate ancestors have been good. Such cattle are the proper kind with which to found a herd. We want to urge *new breeders* and *beginners* to attend this sale and get the right sort of seed stock. If they do it will be easy for them to sell their surplus stock. Write me for a catalog mentioning The Homestead.

P. J. DONOHOE - HOLBROOK, IOWA.

C. M. Jones, N. G. Kraschel, auctioneers.

Come to Parnell, located on the Marion-Ottumwa branch of the Milwaukee R. R. Free conveyance to Holbrook sale day.

A GRAND OFFERING OF
SCOTCH SHORT-HORN CATTLE
TO BE HELD AT THE FARM NEAR
HOMESTEAD, IOWA, THURS., JUNE 12, 1913
80 HEAD--60 FEMALES--20 BULLS

THIS firm has selected this draft of eighty head from their herd of 300 cattle and some of the most desirable females they own have been cataloged. Every animal in the sale is of the best Scotch breeding, coming from such families as the Queen of Beauty, Butterfly, Avalanche, Emma, Duchess of Gloster, Flora, Missie and others. The 20 bulls are an exceptionally high-class lot and the breeder who is needing a herd bull should keep this sale in mind and make arrangements to be present. For generations these cattle are backed up by the very best breeding and this will be an excellent opportunity for breeders needing a herd bull or a few high-class females to get them at their own price. So many cattle to be sold in one day insures many bargains to those in attendance. All cattle will be tuberculin tested before sale. Catalog will be mailed only on application to

OWENS BROTHERS Box H HOMESTEAD, IOWA

Fred Reppert, Carey M. Jones and Geo. Burge, Auctioneers.

for an auctioneer for the coming fall and winter sales. Mention this paper and address Col. Putman at once for dates and terms.

Holstein-Friesian Bulls for Sale.

In an advertisement on page 21 A. J. Podendorf announces that he has for sale two unusually well-bred Holstein-Friesian bulls. One of these, thirteen months old, is a son of Dutchland Hengerveld Winona Boy. His dam is a thirty-one-pound butter cow with a milk record of 627 pounds. Mr. Podendorf thought so much of this calf that he used him on all of his A. R. O. cows. The other calf was dropped April 5th. His sire was Pontiac Rag Apple Korndyke, whose dam had a seven-day butter record of thirty-one pounds. The dam of the calf has a twenty-one pound butter record. Both of these bulls are as well bred as any in the state. They are right in every way and will be sold at low prices in order to make room. Address inquiries to A. J. Podendorf, Logan, Iowa.

Sale of Sensational Short-horns.

As has already been announced in these columns the entire herd of Short-horn cattle owned by George J. Sayer, McHenry, Ill., has been purchased by Thos. Stanton, and on June 3d at his Sittyton Grove Stock Farm, Wheaton, Ill., Mr. Stanton will submit to the public forty head of the tops of his herd, comprising more championship-show material and high-class breeding Short-horns than has been submitted at any sale of any breed in this country for years. There is not a plain animal in the offering, and among them are many that from the standpoint of individual merit and rich breeding cannot be duplicated by any breeder. Mr. Sayer spent a large amount of money in getting his herd together, and it is the pick of this choice lot of cattle that Mr. Stanton will sell June 3d. There are six bulls listed, including the International champions, Roan Sultan and White Star, in addition to which Mr. Stanton has listed his bull Browndale Sultan, the sensational son of Avondale. The list of females reads like the show report of the International. Included among the cows and heifers in the sale is the sensational Fair Start 2d, a show cow that has been in the front rank from calfhood to the present time, has produced three calves and sells with a bull calf at foot by Roan Sultan; Queen Mildred, an outstanding aged cow, the good two-year-old 78th Duchess of Gloster by True Cumberland, the senior Sittyton Anna, and the junior Sittyton Lady 2d, the last calf sired by Glenbrook Sultan. In addition there will be half a dozen Angustas, more of this popular tribe than has ever been offered in one sale; Susan Cumberland, a cow known to all Short-horn admirers, and numerous other cows and heifers of the class that will add strength to any herd fortunate enough to secure them. It is the opportunity for the breeder, the showman or the bull buyer, as the cattle cannot fail to interest every person connected with the Short-horn cattle industry. There are five daughters of the champion Whitehall Sultan, more than can be secured at any other place; four daughters of the champion Cumberland's Last; five by Glenbrook Sultan; two by the champion Ceremonious Archer; two by Uppermill Omega, the great Canadian sire of high-class cattle, and several others by sires of country-wide fame. Mr. Stanton considers this by far the greatest lot of cattle that he has ever handled, and he has certainly assembled and dispersed herds rated as the very best. He knows the cattle industry thoroughly, has the knowledge and judgment necessary for a successful carrying on of big operations. He invites the inspection, and appraisal of these cattle, knowing they will suit in every way. No statement could be made regarding this offering that would be in any way extravagant, as it is a most sensational lot in every way. The advertisement appears on page 21. Look it up and write at once for a catalog to Thos. Stanton, Wheaton, Ill., mentioning The Homestead when you write.

Smith & Son's Durocs.

The writer recently called on the veteran Duroc breeders, Smith & Son, Kearney, Neb., and we wish to say that we were much pleased with the line-up of stock we found on the farm. They have one of the model farms of the state, and they have a herd of Durocs that are in the same class. This herd has always been noted for the high class lot of stuff sent out, and this season we believe that it is in better shape that at any previous time. The great breeding boar, Model Goods by Golden Model 2d, has left a lot of prime stuff in the herd. They sold this boar late last fall and while it looked as though he could not well be kept longer, yet he is the sort of breeder that one can well tie to. Some fall boars, also some gilts by Model Goods and out of the great sow, Sells Crimson Beauty, a litter mate to Uneeda Crimson Wonder and a few other great ones of the famous Sells mating of Crimson Wonder Again and H. A.'s Queen, look like mighty interesting competition at the state fair this fall. One of these boars is simply outstanding. Another boar of much merit, and a boar that has every characteristic of the ribbon winner is Queen's Wonder. He is a sire of the right kind of stock and individually is the same order. He will probably be seen this fall, and if gotten into the right kind of condition will make a good candidate for the good places. With the other boars we must mention Queen's Wonder Again by Queen's Wonder and out of a dam by Improver's Best Improver 2d, his dam is the great sow Sells' Crimson Beauty. We would urge those of our readers in search of a good fall boar to write Smith & Son at once. The have some that are herd heading and prize-winning sort. They can be had worth the money. Write today.

Good's Late Importation.

C. C. Good, Ogden, Iowa, has just returned from the old country where he obtained a fine collection of Percheron and Belgian stallions and mares which he now offers for the inspection of his patrons. Some most attractive individuals are included in the lot. They are selected early before other importers reached the field and with Mr. Good's excellent judgment it may be depended upon that he has something well worth looking after.

The Rees Short-horn Sale.

On Wednesday, June 11th, at South Omaha, Neb., Howell Rees & Son, Pilger, Neb., will make their second annual sale of Scotch Short-horns and they have listed forty-five head for the occasion. We have looked this offering over very carefully and we will say to The Homestead readers that it is the best lot of cattle that this firm has ever cataloged for a public sale. Just a word here regarding the two bulls at the head of their herd. Ruberta's Goods hardly needs mention, as he has been before the public eye for a long while. However, for fear some new breeder may not know about him we will say he is a son of Golden Goods, one of the greatest sons of Imp. Choice Goods and out of that great cow Golden Abbotsburn. The dam of Ruberta's Goods is the noted cow Ruberta, that in her day was one of the greatest show and breeding cows that has ever lived. Ruberta's Goods was junior champion at the Nebraska State Fair and also at the American Royal a number of years ago and since that time he has developed into one of the foremost breeding bulls in this country. His get in the Rees sale last year, and his get in many other sales since that time have been eagerly sought after and they have brought high prices. Quite a number of his sons and daughters will be found in this sale and most of the calves at side of dams will be by him. Their new bull is Whitehall Rosedale, a wonderfully good son of the great bull Avondale. His dam is Rosewood Pride, one of the greatest breeding cows of the present day and she is the dam of some of the best bulls today at the head of the best known herds in this country, Rees & Son paid $2,325 for this bull and he is well worth the money. He is a wonderfully fleshed bull, deep in body, with wide, deep quarters, a good masculine head and is a bull that is unquestionably one of the foremost in the West today. We will have more to say regarding this bull in later issues of The Homestead. Quite a few of the cows in the sale will be bred to him, and they will be good things to buy. Just a word about their bull offering. They are selling eight very choice young bulls any any one will make a good herd bull. One of the best of these is Good Secret, a June calf by Ruberta's Goods out of Sunny Maid 2d, she being a daughter of that noted bull, Imp. McNaughton. This bull is a red roan in color and he is a Cruickshank Secret. Here is a bull that is destined to make a most excellent herd bull and he should go to the head of some good herd. Lavender Goods 2d is another good one and he is also sired by Ruberta's Goods and his dam is Lavender Lady 2d by Imp. Choice Goods. This is a red bull, a splendid calf and a most excellently bred fellow. Many breeders will like this bull for a herd header. Orange Goods is sired by Ruberta's Goods and is out of an Orange Blossom cow. He is a rich red bull in color, a very thick fellow and quite a good one. Crescent Goods is a two-year-old son of Ruberta's Goods and out of Imp. Crescent 8th. This is a white bull and has been in their show herd and has been quite a winner. He was second at Lincoln, first at Hutchinson, Topeka and Oklahoma City and was third at the Royal. The man that is looking for a white bull will be pleased with this fellow. A good yearling white bull is Callant Tyne, a son of the $1,000 bull, The Callant. The sire of this bull is a full brother to Whitehall Rosedale, and there is an outcome to this youngster. There is a Cruickshank Nompareil bull in the sale by Ruberta's Goods and an Orange Blossom bull by Victor Sultan, and both of these are quite good bulls. In later issues we will have something to say

Manure Spreader Prices Slashed! $64.75 Up

My low direct-from-factory prices will save you $25 to $50. My prices on complete spreaders, $64.75 to $79.50. Attachments only $39.50 up. Think of it! Prices never before equaled. Lowest ever made! write today — act quick. These special prices good for 60 days only.

30 Days' Free Trial

Backed by a $25,000 legal bond. Five year warranty. 40,000 Galloway spreaders now in use. Proved best by actual test. Get my catalog and special 1913 offer and lowest special prices. WRITE TODAY—ACT NOW!

WILLIAM GALLOWAY CO.

19 Galloway Station (449) Waterloo, Iowa

HOWELL REES & SON'S

ALL-SCOTCH SHORT-HORN SALE

SOUTH OMAHA, NEBRASKA,

WEDNESDAY, JUNE 11, 1913

45 HEAD---37 COWS AND HEIFERS, 10 CALVES AT FOOT, 8 YOUNG BULLS---45 HEAD

WE INVITE you to our second annual sale and we will show you one of the best offerings of Scotch cattle you have ever seen. Included will be eight choicely bred Scotch bulls, any one of which is good enough to head any herd. Among these is **Good Secret,** a son of our great bull, Ruberta's Goods, and he is out of a daughter of Imp. McNaughten. He is a Cruickshank Secret and an outstanding good one. **Lavender Goods 2d** is also a son of Ruberta's Goods and out of Lavender Lady 2d by Imp. Choice Goods and a herd header. **Orange Goods, Crescent Goods** and **Ruberta's Nonpareil** are all sired by Ruberta's Goods and belong to the Cruickshank Orange Blossom, Nonpareil and Crocus tribes. Callant Tyne is a son of The Callant, and Fair Sultan is a son of Victor Sultan. These are a royally bred lot of bulls and we invite your most critical inspection. We are selling a grand lot of Scotch cows and heifers, including some of our very best show heifers. There will be ten good calves at side of dams, sired by **Ruberta's Goods, Whitehall Rosedale** and **Victor Sultan.** The most fashionable and popular Scotch families will be represented in our sale, and it is an offerng that we feel proud of. If you want a good young Scotch bull to head your herd or if you want some high-class cows, make it a point to attend our sale. Catalog now ready and can be had for the asking. Address

HOWELL REES & SON - - - - - - - - - PILGER, NEBRASKA.

Cols. Woods, Jones and Reppert, auctioneers. Please mention The Homestead when writing for catalog.

of the splendid offering of cows they are selling in this sale. Write for their catalog at once and kindly mention The Homestead.

Taylor & Welty Hereford Dispersion.

One of the most remarkable sales of Hereford cattle that has taken place this season occurred at Wanatah, Ind., April 29th. The cattle were owned by Taylor & Welty, and it was a dissolution sale. The cattle were presented to the purchasers in their everyday working condition, and no special effort had been made to put them in high condition. However, the whole herd was one that was well appreciated, and the prices the animals brought is sufficient evidence of the same. Mr. Taylor informs us that he has retained some of the cream of his production and will continue raising high-class Hereford cattle at his Elk Horn Hereford stock farms, located in Carroll county, Ill. His son is now located on these farms, and handles the cattle, and as soon as Mr. Taylor closes up his business fully at Wanatah he will join his son at the farms above mentioned, and they will keep on raising high-class Hereford cattle.

Owens Bros.' Great Short-horn Sale.

On Thursday, June 12th, Owen Bros., Homestead, Iowa, will sell a select draft of eighty Scotch Short-horns at public auction. The sale will be held at the farm four miles south of town. This herd is one of the old-established herds in the state. About thirty-five years ago the senior Mr. Owens, father of the present firm of Owens Bros., founded this herd, and from that day to this the constant aim has been to improve the herd. Only the very best Scotch bulls obtainable have been used during this long period. This Homestead representative has been familiar with this herd for some years and upon a recent inspection can frankly state that the herd is better now than at any previous time. Men who have known Owens Bros. know that they have never stopped on price when buying a herd bull. Among the recent bulls purchased to use in the herd is Cumberland Dictator, a son of Burwood Royal and out of a Cumberland's Last cow. This is a show bull and one of the thickest bulls to be found in the state. He has a world of Short-horn character and has that beefy conformation that all breeders admire. Another good young bull that is now in service is Sultan Goods, a Cruickshank Lavender sired by Missie's Sultan and out of a Good Choice dam. This bull is siring some extra good calves. Scottish Lad is a bull of their own breeding sired by Secret's Best, while the next six sires in his pedigree were bred by Amos Cruickshank. Most of the young calves are sired by and the cows in the sale are bred to these bulls. It is an important consideration when buying a cow to know that she is in calf to a good bull, as you may then reasonably expect a calf with merit. Practically every animal in the sale is of the very best of Scotch breeding. A number are of the Queen of Beauty family that has given this herd many of its best cattle. Twenty bulls and sixty females make up the offering. The twenty bulls are an excellent bunch and among them are a number of herd-heading character. Courtier's Crown is a three-year-old red bull, that sells, sired by Courtier 5th and of the Queen of Beauty family. He has been used some in the herd with excellent results, but owing to the fact that there are so many of the females closely related to him Owens Bros. have decided to list him in this sale for public appraisal. If they could use this bull to advantage in the herd he would not be offered for sale at any price. He is weighing 2,200 pounds with a good covering of flesh, a good spring of rib and in fact is a good bull from end to end. A bull of this character is not an experiment, but a tried herd bull from which excellent results should be obtained. J. A. Daniels, Williamsburg, Iowa, is listing a good young bull in Sultan's Magnate, a July calf by Monarque Sultan, a grandson of Whitehall Sultan and out of a daughter of Imp. Blossom. In next week's issue of The Homestead we will give full particulars regarding the bull offering in this sale. In the meantime write Owens Bros., Box H., Homestead, Iowa, for catalog which will be sent only on application. See the advertisement on page 19.

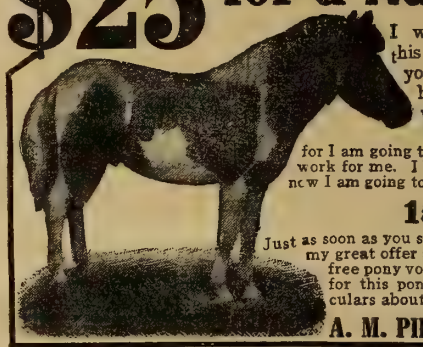
Morman Offers Scotch Bulls.

Anyone wanting a good, young Scotch or Scotch-topped bull should write or go and see J. C. Morman, Crofton, Neb. Mr. Morman has one of the good, though not large, herds in Nebraska and he has five good young bulls for sale. Four of these are straight Scotch. Two of these are sired by White Archer, a son of Faithful Archer, and three are sired by Gallant Sultan. Two of these are good roans, are both Scotch and descend from Imp. Sylvia. Mr. Morman is only asking $150 for these young Scotch bulls and they are bargains at that figure. When Writing Mr. Morman about these bulls kindly mention The Homestead .

The Holbrook Angus Sale—Last Call.

This is the last opportunity we will have of calling the attention of our readers to the offering of high-class Aberdeen Angus cattle to be sold at public auction in the Holbrook sale pavilion at Holbrook, Iowa, on May 27th. P. J. Donohoe, Holbrook, is consigning the larger part of the offering and William Cash, Williamsburg, is consigning about fifteen extra good females. These two men have been faithful boosters for the Aberdeen Angus breed for a number of years in that they have bred a lot of high-class cattle and in this way exploited the merits of the breed to the general public. These men have proven themselves constructive breeders and it is to such men that the breed must look for improvement. From herds with such reputations new breeders should buy their foundation stock as they always have a greater certainty of producing higher class cattle from such a foundation than if in the start they had bought cattle indiscrimately. The blood lines of the offering are above reproach and the pedigree crank could not find fault with any of the pedigrees to be found in the catalog of this sale. Mr. Donohoe has always had a personal interest in the small breeders and in the man who is just starting a herd. It has always been a pleasure for him to give such men any information and help that he may possess. The progeny of such bulls as the celebrated Black Woodlawn, Prince Ito, Black King of Homedale 2d, Erwin C., Black King of Woodlawn and many others of note, are cataloged. The leading families such as Blackbirds, Trojan Ericas, Queen Mothers and Prides, make up the offering. In the above appeal to new breeders to attend the sale and take home some of these cattle, we do not want older breeders to infer that the class of cattle to be sold here is not good enough for any herd as such is not the case. The individual merit of this offering is as good as will be found in any sale and the breeder and showman can find plenty of material that will suit his fancy. What we want to impress upon the new breeder or beginner is the fact that if he will buy some of these high-class cattle and give them care, at the end of five years he will be so much farther ahead in the breeding business than he would be if the purchased cheaper cattle to start with, that there would be no comparison. The Holbrook sale pavilion is five miles east of Parnell, Iowa, which is located on the Marion-Ottumwa branch of the C. M. & St. P. R. R. Parties from a distance should come to Parnell where they will find free transportation to Holbrook. Anyone interested in good beef cattle will be a welcome visitor at this sale. Write Mr. Donohoe for catalog as per the announcement on page 19, mention The Homestead.

$25 for a Name for this Pony



I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember you get $25 if you send the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

A. M. PIPER, 650 Popular Bldg., Des Moines, Ia.

Buy Your Boar Now.

Readers of The Homestead who will want a Poland China boar this fall will be interested in the advertisement of J. O. James, Braddyville, Iowa, on page 22. He is now booking orders for boar and sow pigs to be delivered in June, and he is making the substantial price of $25 to $35 on these pigs if ordered right away. These litters are sired by the sensational boars, Big Orange, Otts' Big Orange, Big Sensation, Big Orange's King, A Wonder's Great and Gritters' best, and they are out of sows that weigh from 700 to 800 pounds. The blood of old Pawnee Lad percolates through the most of these sows and no boar used in the West the past ten years has exerted a greater influence on the Poland China breed towards bringing it to its present high standard of perfection than did old Pawnee Lad. Don't delay ordering, as these pigs are going fast. Write Mr. James at once and send your check and description and leave it to him to pick you a good pig. When writing him kindly mention The Homestead.

Bellows Bros., Short-horn Sale.

Each year those interested in superior live stock look forward to the anual June sale of Short-horn cattle made by Bellows Bros., Maryville, Mo. This year the sale will be held on Tuesday, June 10th, and buyers are to have an opportunity such as has not recently been afforded to select choice young herd headers and females, of such superior individual merit and superb breeding that the most discriminating cattleman canot fail to be pleased. The Bellows Bros.' herds have furnished many great bulls to breeders and by the concentration of the blood of old Choice Goods, through his sons, Good Choice (sire of the champion Diamond Goods) and Best of Goods, with the blood of such noted sires as Whitehall Sultan, Hampton's Best, Red Knight and other leading bulls, the Bellows Bros. show by the class of this offering that they are past masters in breeding superior Short-horns. Twelve bulls and thirty-seven females are listed. Those looking for bulls fit to head the best herds will be pleased with several of these roans and reds. Diamond Goods, the leading bull in the Bellows Bros.' herds is the sire of one-half of these and the strong character, quality and substance of this magnificent bull is transmitted to his sons to such an extent they cannot fail to do good. To own a son of Diamond Goods assures a high-class herd header. Diamond Emblem, a January yearling, by Diamond Goods, and out of a beautifully bred Marr Emma dam is probably the best bull Bellows Bros. ever offered. He is right, he has the style and character essential in a show and breeding bull. He is low set, evenly balanced, with great covering over back and loin, is smooth and has two good ends with proper coupling. He should go to a good herd in need of a high-class roan bull, one of the best to be had. Corner Stone, an October yearling, by Superb Goods one of the good breeding sons of Good Choice is out of one of Bellows Bros.' reliable Queen of Beauty cows by Best of Goods. Those who have purchased stock from this family have had excellent success and Corner Stone is a bull with such substance, strong character, even balance and such good head and eye that he should prove one of the most valuable sires of his age. He is a good roan and is a thick fellow. Note in catalog what Bellows Bros. say of his breeding. Sultan's Crown, a roan September yearling, carries through his top crosses the blood of Choice Goods, Whitehall Sultan and Hampton's Best, three great bulls. He is a thick-fleshed fellow, deep and low set, is smooth and well covered over shoulders. He ranks among the good ones of the sale and should please. Mildred's Sultan by Missie's Sultan, will please those looking for a very thick, short-legged bull, one that Bellows Bros. think so much of that he has been used some in the herd. Diamond Abbott is a red two year old by Diamond Goods. His finish, thickness, two good ends, well-sprung rib and depth should make him one of the favorites. Victoria's Sultan by Missie's Sultan, is a Victoria that has been used liberally in the herd, as his depth, quality and character is such that Bellows Bros. like him and he should prove a valuable sire. Sweetheart Sultan by Sultan's Choice and out of a dam by Best of Goods is of the same tribe as the great Diamond Goods. He is a red and should be appreciated. Diamond Sultan of the Village Maid tribe is a roan by Diamond Goods and out of a strongly bred Whitehall Sultan cow. He is young, but should develop into one of the valuable bulls of the offering. There are other good bulls in the lot and all are bred along the lines mentioned. There will not again soon be such another chance at so great a number of herd-header prospects that will do good. All are bulls bred by Bellows Bros., eight roans, four are red. The female part of the sale is unquestionably one of the strongest ever put up. The Bellows' herd bulls are the sires of many. There is listed the greatest string of calves at foot ever seen in a sale ring and the fact that these cows and heifers are bred to such bulls as Diamond Goods, Sultan Supreme and other bulls that are in service in the Bellows Bros.' herds adds greatly to their value. The breeding of all is of the best. Extended mention of these

DISPERSION OF THE SAYER SHORT-HORNS

At Sittyton Grove Stock Farm, Wheaton, Ill., Tuesday, June 3d

50 HEAD, 6 BULLS, 15 COWS WITH CALVES AT FOOT

HAVING purchased the entire herd of Mr. George J. Sayer, I will offer a draft of fifty head of the tops, comprising the greatest lot of Short-horns ever submitted at public sale. **The Bull List** includes the **International Champions, Roan Sultan** and **White Star,** in addition to which I have catalogued **Browndale Sultan,** the great son of Avondale. Three high-class young bulls are also listed. **The Show Females, Imp. Fair Start 2d** with bull calf at foot by Roan Sultan; **Queen Mildred,** bred to Roan Sultan; **78th Duchess of Gloster** by True Cumberland; **Sayer's Georgia** by Roan Sultan; **Sittyton Fashion** by Leader of Fashion; **Sittyton Anna** and **Sittyton Lady 2d,** form the greatest lot of winning show propositions, from junior yearlings to aged cows, ever offered in one sale.. **A Great Lot of Breeding Cows,** fifteen of them with calves at foot by Prince Imperial, Roan Sultan, Faithful Archer by Ceremonious Archer, and all of breeding age bred to one of these sires, will be presented for public approval. There are six choicely bred Augustas in this lot, as well as representatives of many other popular Scotch tribes. There will be four daughters of Cumberland's Last, five daughters of Whitehall Sultan, five daughters of Glenbrook Sultan and daughters of Uppermill Omega, Leader of Fashion, Ceremonious Archer and other noted sires. This is the Short-horn event of the year. Send for the catalog today, mentioning The Homestead. Address

COLS. CAREY M. JONES and FRED REPPERT, Auctioneers

THOS. STANTON, WHEATON, ILLINOIS

Attention is called to the sale of John M. Bay, at Aledo, Ill., June 4th.

TOO LATE TO CLASSIFY.

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 100 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH **NEWTON, IOWA**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, **NEWTON, IOWA.**

Sunny Slope Hampshire Swine

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOKS, WASHINGTON, IOWA.**

Holstein-Friesian Bulls

FOR SALE—One thirteen-months-old bull by Dutchland Hengerveld Winona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address
A. J. Podendorf, Logan, Iowa.

HEREFORD BULLS

A FEW good individuals for sale at right prices. Address, mentioning Homestead, John Thompson, care of Farmer and Breeder, Sioux City, Iowa.

BLOCKY, Good-Boned Chester White Fall Pigs, either sex. Weight 175 to 200 at $20.00 to $25.00. Guaranteed as represented. Address **Will Michael, Selma, Iowa.**

J. H. BARR,
Auctioneer.
Pedigreed live stock. Write for dates. Hebron, Neb.

350 BIG-TYPE Mule-foot hogs, all ages. America's champion herd. Ponies and White Leghorn eggs. Address J. Dunlap, Williamsport, Ohio.

will appear next week. Note the advertisemeent on page 18 and send for catalog mentioning this paper.

Vaughn's Good Short-horn Bulls.

W. W. Vaughn, Marion, Iowa, has enjoyed an excellent trade in Short-horns during the past few months and at the present time has a few extra good Scotch bulls that would please prospective purchasers if they would visit the farm and inspect these bulls. There is one thirteen-months-old bull sired by Ruby King out of a daughter of Imp. Claudia 4th, one of the best breeding cows Mr. Vaughn has on the farm. This bull is a big, strong, growthy, good-loined bull that should prove a good sire. There is another extra good eleven-months-old calf sired by Brawith Lad and of the Rosemary family that is an extra smooth, good ribbed, stylish calf that will develop into an excellent bull. We can strongly recommend this calf to our readers and the price asked for these bulls is well within their value. Ruby King is an extra well-bred Scotch bull and has proven a sire of merit. Mr. Vaughn has a number of calves from eight to ten months of age that he would sell. This is one of the oldest herds in the state and the individual merit of the cattle in many communities has been due to the good bulls sent out from this herd. Write or visit Mr. Vaughn Box H, Homestead, Iowa, for catalog if interested. See page 23.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT, IOWA.
J. L. Thatcher, Manager.

Big-Type Polands

OF the thick, smooth, heavy-boned kind. Fall and spring boars and gilts sired by Dale Expansion 190135. Also choice sows bred to him for fall litters. Address
F. E. JACKSON, HURLEY, SOUTH DAKOTA.

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

Purchase Percherons

There is a fundamental reason why the breeding of draft horses will continue profitable.

From 1900 to 1910 the population of the United States increased 21%. Horses increased only 8%. Cattle decreased 8%, hogs 7%, sheep 14%.

This means increased tilled acreage and increased demand for horse power.

For full information address Wayne Dinsmore, Sec'y, Percheron Society of America, Union Stock Yards, Chicago, Illinois.

CHESTER WHITE herd boars and bred sows for sale. One boar is out of grand champion sow Iowa State Fair, 1912, and sows are bred to him. Address G. H. Tutt, Marathon, Iowa.

Red Poll Bulls Including present herd bull. Call or address
F. W. Haning. **Truman, Minnesota.**

Sale of Sunny Slope SHORT-HORNS

Aledo, Illinois

WEDNESDAY, JUNE 4

40 HEAD---10 BULLS

ARE cataloged for this, the first annual sale from Sunny Slope herd. Over one-half of the offering is of the best Scotch breeding and the balance represents popular American families topped out by strong Scotch sires. Ten outstanding young bulls by my herd bull, Challenger, are listed, among them both show and breeding prospects, I will offer several heifers by Challenger, good enough to win in any company. Among the breeding cows cataloged are representatives of the Rosemary, Queen of Beauty, Lustre, Acanthus, Miss Ramsden and Victoria tribes, and everything of breeding age will either have calf at foot by Challenger or Roan Goods, a grandson of Choice Goods, or be safe in calf to one of these bulls. The cattle in this sale will please you, as they are the reliable kind. Write for catalog, mentioning The Homestead.

JOHN M. BAY, ALEDO, ILL.

Cols. Carey M. Jones, Boultinghouse and Decker, Auctioneers. Sale in town. This sale follows that of Thos. Stanton, Wheaton, Ill., June 3. Aledo can be reached by the Burlington railroad and also by Rock Island Southern electric line from Galesburg, Monmouth and Rock Island.

NEW BELGIANS and PERCHERONS

I HAVE just returned from Belgium and France, where I was able to make early selections of some of the best obtainable stallions and mares of both breeds.

MY SPRING IMPORTATION, now to be seen in my barns, includes a lot of handsome gray two-year-old Percheron stallions and mares with size and quality and some of the toppiest two-year-old Belgian stallions and best Belgian mares that could be purchased, among them a pair of prize winners at the big Belgian shows. Come and see my horses. Forty head to select from. For quick sales I will make below competition. Will meet train or car if notified.

CHARLES IRVINE, IRVINEDALE FARM, ANKENY, IOWA.

POLAND CHINA SWINE.

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25** to **$35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

W. H. COOPER, LIVE STOCK AUCTIONEER

BIG BONE 2d 161497.

WE maintain one of America's greatest herds of strictly big-type Polands with big-type blood lines. We have in connection with it, one of the most complete plants for the business known. Twenty sows in our herd average over 650 pounds each including several yearlings.

50 HEAD OF BRED SOWS AVERAGED $65.00 in our February 4th sale, mostly gilts. We are booking orders now for June delivery, gilts and boars of this spring's farrow, at $20.00 and $25.00 each, out of these sows, which are of the biggest blood lines known, and sired by our big herd boars, including the great Big Expansion, weighing 800 pounds at two year old, and Big Bone 2d, and other boars of like breeding. Can furnish boars and gilts unrelated. Guarantee everything as represented or it may be returned and money refunded. Everything recorded free to purchaser. **W. H. COOPER, HEDRICK, IOWA.**

GOOD LUCK HERD POLAND CHINAS

A FEW big-type September boars and gilts for sale. The large, useful kind, with quality, bone 7 to 8 inch. Sired by Giant Wonder 184793. Will ship on approval express prepaid. Satisfaction guaranteed. Write us for description and prices. Address
L. S. FISHER & SON, R. I, Edgewood, Iowa.

Faulkner's Spotted Polands

THE old original big-boned spotted kind. Now booking orders for spring pigs to be shipped when weaned. Pairs or trios, no kin. Everything Registered. For the kind of our forefathers address
HOMER L. FAULKNER, Box 117, Jamesport, Mo.

12 HIGH-CLASS POLAND CHINA FALL BOARS 12
I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning Iowa Homestead, A. H. Windom, Nodaway, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks. James H. Duncan, Lone Oak Farm, Lineville, Ia.

AUGUST GORDER'S POLAND CHINAS

A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.
AUGUST GORDER, PLATTSMOUTH, NEB.

WE ARE NOW BOOKING ORDERS FOR BRED SOWS

WE have a number of extra choice fall gilts, great big ones, that we will breed for fall litters for those that order now. These gilts are by Nebraska Wonder, by A Wonder, and Chief Price Again. Will breed them to Sampson Junior, a selected son of Nebraska Wonder, or to Nebraska Wonder. We price these gilts low for the class of stock, and if you wish some of this sort order at once. Be sure to mention The Homestead when you write. Address **BEALL & JACKSON, ROCA, NEBRASKA.**

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address
Pitz & Adams, Plattsmouth, Nebraska.

November Boars

WEIGHT 175 to 250. Price $20 to $30. All sired by Orange Boy. Some herd header prospects.
M. G. Arnold & Son, Strawberry Point, Iowa

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

BERKSHIRE SWINE.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa.

HAMPSHIRE SWINE.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Keatucky ond Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head ou hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra flood spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding our are aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today. **MIKE SHARP & SONS, COAL VALLEY, ILLINOIS**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
H. D. DE KALB, DE KALB, IOWA.

Valley View Hampshires Nothing left at present but fall pigs. Address **Fred Wheeler, St. Charles Ia.**

MULE-FOOTED SWINE.

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs no. akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

CHESTER WHITE SWINE.

KENT'S IOWA HERD OF CHESTER WHITES

200 BRED SOWS for sale from my great state fair prize-winning herd. One hundred junior yearlings and aged sows that will weigh from 300 to 500 pounds in good breeding condition. Also 100 spring gilts. If you want to buy some good ones it will pay you to come and see them or write me today for prices and the way I will ship these hogs before paying for them. I will pay your railroad fare if I cannot show you as good a herd as you can find anywhere. I can furnish you most anything you want at prices made to sell. When writing mention The Homestead. **THOS. F. KENT, R. 2, Walnut, Iowa.**

G. O. SATRE'S CHESTER WHITE FALL BOARS

THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two-year-old boar, Royal Banner 22289, by Perfection by Climax. Descriptions and prices furnished on request.
G. O. SATRE - - - JEWELL, IOWA

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle. Woodland Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

Orme's Prize-Winning Chester Whites I am offering 4 all boars, 10 fall sows. $25 ea. A.C. Orme, Nodaway, Ia.

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FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals We send him anywhere on request and quote prices as low as is consistent with good work Let us send him to you before arranging your season's advertising Address

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COL. H. L. IGLEHEART

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LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.
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THOROUGHLY POSTED. Fine stock sale booked in four states. Also public sale of farm at auction. Write for prices.

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Pure-bred sales a specialty Write for dates
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Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates

E. Z. RUSSELL, LINCOLN, NEB.

LIVE STOCK AUCTIONEER
SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

GALLOWAY CATTLE.

PURE-BRED GALLOWAYS

Bulls, Cows and Heifers for sale at farmers' prices.
JAMES P. MILLIKEN, MEDIA, ILLINOIS
Main line Santa Fe Railroad.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

HEREFORD CATTLE.

Double Standard Polled HEREFORD BULLS

Yearlings and good ones. They will suit you.
H. D. CLORE - - LUCAS, IOWA.

RED POLLED CATTLE.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan, Scotch bred 3 yr. olds, and calves 6 to 12 mos.; choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

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HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

When writing to advertisers please mention The Homestead.

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J. W. STORM BUYS THE GRAND CHAMPION DUROC BOAR, VOLUNTEER, AT $1,500

HE is assisted in herd by Royal Superba, grand champion over all breeds at two big shows. For particulars address, mentioning The Homestead. J. W. STORM, SEVILLE, OHIO

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mound's Col.** A few extra nice fall pigs, either sex. SMITH & RODGERS, Springfield, Ohio.

MENAUGH BROS.

GARDNER, ILLINOIS.

Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

CRIMSON COL. FALL MALES FOR SALE

I HAVE a few extra choice fall males by this $1,200 Iowa State Fair champion, 1911. Choice spring pigs for sale at weaning time. Address
C. B. REAM, - Route 6, - LIMA, OHIO.

DUROC JERSEY FALL BOARS

October boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears. A good pig at a fair price. **J. C. Porter, Ogden, Iowa.**

DUROC FALL BOARS FOR SALE

SIRED by Defender Junior, he by Defender, will weigh about 200 lbs.; also have some fall gilt, bred August farrow will sell cheap if taken at once
N. NAUMAN, WEST LIBERTY, IOWA.

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Address
Fred Swan - - - Missouri Valley, Iowa.

DUROC JERSEY FALL BOARS by Golden Model Jr., out of dams by Crimson Wonder I am, $25 to $40; big bone, fancy quality. U. G. Davidson, Algona, Ia.

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb

MIDLAND DUROCS Bred sows all sold. One yearling boar for sale or exchange for fall pigs. Address S. J. Butts, Mason City, Ia.

YEARLING DUROC BOARS

I HAVE six yearling boars, one by Crimson Wonder I Am out of a Proud Colonel sow, and five by Wilson's Defender (by Defender) and out of sows by Model Chief, Wonder Boy and Victor Wonder. These boars weigh over 300 pounds and are good. Prices reasonable. Write me mentioning Homestead.
I. J. WILSON, WEST BRANCH, IA.

DUROC JERSEY FALL BOARS

Reed's big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol. 40437a. If you want a big, smooth, heavy-boned pig, visit or write Wm. Reed, Rose Hill, Iowa. Farm adjoining city limits.

E.W. DAY&SON'S DUROCS

FALL boars sired by Queen's Chief 12633 by Chief select 88307, the noted prize winner. Dams by Stout's Advancer 63503 and Double Wonder II. 100625. These are a choice bunch and strictly big type.
E. W. Day & Son, Kellogg, Iowa

DUROC JERSEY BOARS Four August boars by Colonel Tyler. Heavy boned and lengthy. $30 each if taken soon
Gus Davisson, West Liberty, Iowa.

DUROC JERSEY FALL BOARS for sale; also trios, reasonable prices.
L. L. DE YOUNG, SHELDON, IOWA.

When writing to advertisers please mention The Homestead.

SHORT-HORN CATTLE.

16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
J. G. WESTROPE, HARLAN, IOWA.

AMERICAN GOODS FOR SALE

I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale** as I can spare him. He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
W. M. M'LAUGHLIN, SHELBY, IOWA.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

WILDWOOD FARM

offers for sale

ONE red Scotch bull, thirteen months old of the Clara tribe—growthy and wide in the loin. Also four other thick-fleshed ten and twelve-months-old calves from good milking dams.
W. W. VAUGHN, MARION, IOWA.

Choice Scotch Bulls

FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
C. A. SAUNDERS, - MANILLA, IOWA

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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address J. E. BARR, R. F. D. 4, Davenport, Iowa.

Bulls at Pike Timber Stock Farm

TWO Red Scotch-topped young Marys, both good, 11 and 12 months old, and one pure Scotch Lancaster bull, red, 11 months old, an outstanding good one. **Davenport & Mack, Belmond, Iowa.**

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE, - - Mt. Vernon, Iowa.

PURE SCOTCH AND SCOTCH-TOPPED

SHORT-HORN BULLS by the great Baron Sultan. These bulls are very choice, yet we name farmers' prices as we wish to close them out soon.
Edgar A. Shoebotham, Fairbury, Nebraska

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

Short-Horn Herd Bulls

LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
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FOR SALE—4 young cows, to calve soon, price $100 each; 5 heifers at $60 and $75; 7 good bulls at $50 to $100. Brawith Bud, Princess Royal, Alexandria and Athene families. Priced to sell. **R. E. Baldwin, Osceola, Clark Co., Ia., on C. B. & R. Ry.**

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JUST now offers some very choice Short-horn bulls, three two year olds, seven yearlings. Pure Scotch and Scotch-topped breeding. Come see them.
JOS. H. DEHNER, CASCADE, IOWA.

20 CHOICE SCOTCH HEIFERS FOR SALE 20

THESE range in age from 18 to 30 months and are safe in calf to **Velvet Goods.** Also a few choice young bulls. Address, mentioning The Homestead,
PERRY O. BROWN, LAMONI, IA.

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
FRANK J. CLOUSS, Barnum, Iowa.

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GOOD YOUNG ANGUS BULLS

YOUNG bulls by Blackbird and Queen Mother sires that are strictly first class in every respect. King Champion by Blackbird Royal and Swan Lake Black Sign by the $5,000 Black Sign 2d are the sires. Out of big roomy **producing** cows; all calves are worthy of consideration by any breeder. Get my prices.
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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Pride 126734, Kazimura 2d 134656 and Elsyer 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

ABERDEEN ANGUS BULLS

I HAVE 7 bulls, all grandsons of Black Woodlawn, with quality that I am offering at farmers' prices. One is a toppy Blackbird calved last May. They are from 11 to 16 months of age. Call on or write
A. G. MESSER, GRUNDY CENTER, IOWA

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12 PURE-BRED cows, but not registered; price $75.00. To calve soon. Some registered heifers, year old now. Price $100.
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WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28155. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

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50 HEAD HEREFORD BULLS FOR SALE 50

WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.
A. SPOONER & SON, - - MONDAMIN, IOWA

Hereford Cattle Duroc Jersey Hogs

STOCK for sale of both breeds at all times. Write or come and see me. Address
A. F. HAGER, AVOCA, IOWA.

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The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW!
V. W. HARMS,
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60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address
J. C. HUCKSTEP, EOLIA, PIKE COUNTY, MISSOURI

McLAY CLYDESDALES MAKE GOOD

McLAY BROTHERS,
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FARMERS, READ THIS

AS I must change climate, I offer at reduced prices for early sale, the following registered Percheron horse colts: Two yearlings, two 2-year-olds, one 3-year-old and one 4-year-old. All grays and of conformation to suit you. Four will make ton horses. Will make prices right and you can name terms. Can supply you with seven choice brood mares also from 2 to 6 years old. This is a grand bunch with 3 already in the ton class. All registered Percherons.
L. J. BAIRD, Phone 183, AMES, IOWA.

PERCHERONS

1,860 to 2,080 lb. home-grown 3-year-old stallions. Eight of them May 9th. Darkest grays and blacks. Size and bone to suit you. Ready for the heaviest season now at hand. Come.
FRED CHANDLER
Route 7,
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Palestro I. 52027 (67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret (47526) by Theudis, by Besigue, by Brilliant III. and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

GENTLE PONIES Several small ponies for sale. Write me what you want. Perhaps I can please you. J. H. Kelley, Altoona, Ia.

FOR SALE Two Shetland pony stallions, one and two years old, full brothers, matched, weight of eldest 560. S. A. Wolcott, Gilmore City, Ia.

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W. J. BUTLER

OTTAWA, ILL., Breeder of

Percherons and Belgians

12 YOUNG stallions and some young mares. I raise them and want to sell them. Write me.

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

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OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address
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FOR SALE Two extra heavy-boned, registered Shire stallion colts coming two and three years old. Price $300 and $400
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STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

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STALLIONS that I will sell at right prices. Address **R. O. MILLER, Route 1, Lucas, Ia.**

FOR SALE Ten head of Percheron stallions, mares and colts. Address **Ashbaugh Bros., Maynard, Iowa.**

PERCHERONS Imported and home-bred stallions and mares from $200 to $900 each. Address
H. REDENIUS, RUSHMORE, MINNESOTA.

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TRUMANS' CHAMPION STUD

1878 As usual we have made in 1913 THREE IMPORTATIONS OF 1913 SHIRE and PERCHERON STALLIONS and MARES and have now on hand

78 IMPORTED DRAFT STALLIONS 78

Including 8 noted Wrydelands colts rising 3; 25 Imported GRAY and BLACK PERCHERON STALLIONS, the BEST we could buy in France; 40 IMPORTED SHIRE STALLIONS 3 to 6 years old, including the champions, first, second and third prize winners at International, Illinois, Iowa, Minnesota and Wisconsin State Fairs of 1912; the GOLD MEDAL INTERNATIONAL WINNING ROAN BELGIAN stallion 3 years old, we think the best Belgian colt in America; a few Hackney Stallions and 35 Imported Shire and Percheron Mares.

NO CULLS, ALL FRESH, HIGH-CLASS IMPORTED HORSES

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

FRANK IAMS

IS RETIRING FROM "HORSE BUSINESS"

CLOSING OUT All his Show and Business Stallions at..... REDUCED PRICES

Iams is making a "clean up" of his horses. All will be sold at "some price." He has his "Paris Winners and Best Stallions" in his barns. Prize Winners, $1,000.00 and $1,200, some higher. His 1913 "show" stallions must be sold in 30 days.

Iams is making **prices $200 to $500 "less than formerly"** on **each stallion** to make a **"Quick Clean Up"** (In next 30 days)

Paris Prize Winners at Cost in France

Buy a **ticket** to **"Iams town"** and **take advantage** of Iams' **"Reduced Prices."** Never were such choice **"Big Prize Winners"** offered at **such "Big Bargains"—all must be sold.** They are **"Model Drafters."** Iams' **"Old Customers"** make his **"Best advertisers."** His **"Percheron Stallions"** are the **very best he ever imported.** They are of **"Big Size," large bone, model, smooth "Drafters"** of **quality,** fine **form, finish and style, fast movers.** Among them are several

"PRIZE WINNERS AT PARIS"

NOGENT-le-ROTROU and **CHARTRESS** (three largest shows of France). They are all fully acclimated and in the **"Pink of Condition." They were bought to sell. All must be sold at some price.** I know **France** and **leading breeders there. I speak** the **languages** and **know how to "Buy Horses"** at **"Big Bargains,"** and I **divide "The Bargains"** with **my customers. Iams has a choice collection of**

IMPORTED PERCHERON STALLIONS

3 to 6 years, "Registered and Inspected" by **Governments of France, weight 1,800 to 2,500 lbs. All "Branded," Approved, "Registered** and **Inspected"** by **Governments of France and U. S. and Certificates "Stamped" O. K. All inspected** by a **Nebraska Deputy State Veterinarian,** and **Certificates of "Health and Soundness"** are **given** with **each Horse.** Iams sells

IMPORTED WINNERS at $1,000 and $1,400

(few higher.) **Terms cash,** or **one year's time** at **8 per cent bankable note, one and two years' time Land Security** at **6 per cent; $100 less price for cash than time. Iams pays freight and buyer's fares, gives 60 per cent breeding guarantee;** can place **$1,500 insurance. Iams backs up** his **ads** with a **$500 guarantee** that you **find the Horse as represented. Write for Horse Catalog. It has a $1,000 "Bargain" on each page.**

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150 Stallions, Mares and Colts 150

Including a Few Choice Young Percherons

60 HEAD imported October, 1912; another large importation arrived March, 1913, making this the best and largest collection of Belgian draft horses to be found anywhere in America. The supply on hand never allowed to run low; you will at all times find a large and choice collection from which to choose. You will be delighted at the Belgian Horse Show to which you will be treated when here. I can satisfy you in price; I can satisfy you in quality, bays, browns, blacks, sorrels and roans. Get on the train, come to Cedar Rapids or Iowa City, then phone me to meet you at the electric car line; car every hour from Cedar Rapids and from Iowa City. Catalog ready.

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LEWIS and ATLANTIC, IOWA,

BREEDERS and IMPORTERS

PERCHERON AND SHIRE STALLIONS AND MARES

We have some of the very best stallions and mares that have crossed the water and we are making special prices for next thirty days. Come and see us at once.

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PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.

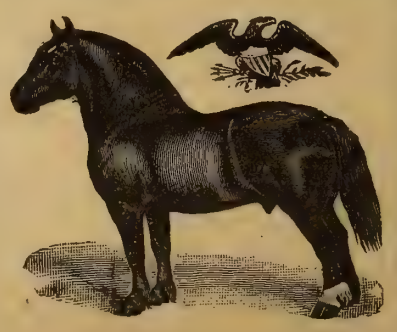
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.

MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

Special Sale of Percheron and Belgian Stallions

For Next Thirty Days

New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.



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A. B. HOLBERT, Prop. GREELEY, IOWA

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PERCHERONS, BELGIANS, SHIRES, MAMMOTH JACKS and JENNETS

SOME extra good home-bred stallions. Percherons and Shires, pasture raised and in splendid thrift. The sort to do a lot of hard service. A few extra high-class big jacks 3 to 5 years old and 30 jennets, all ages. Democratic prices on this stock for next 30 days. Want to close them out. Address, mentioning The Homestead,

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Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW **Importation Arrived April 23d,** and are now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

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The Iowa Homestead

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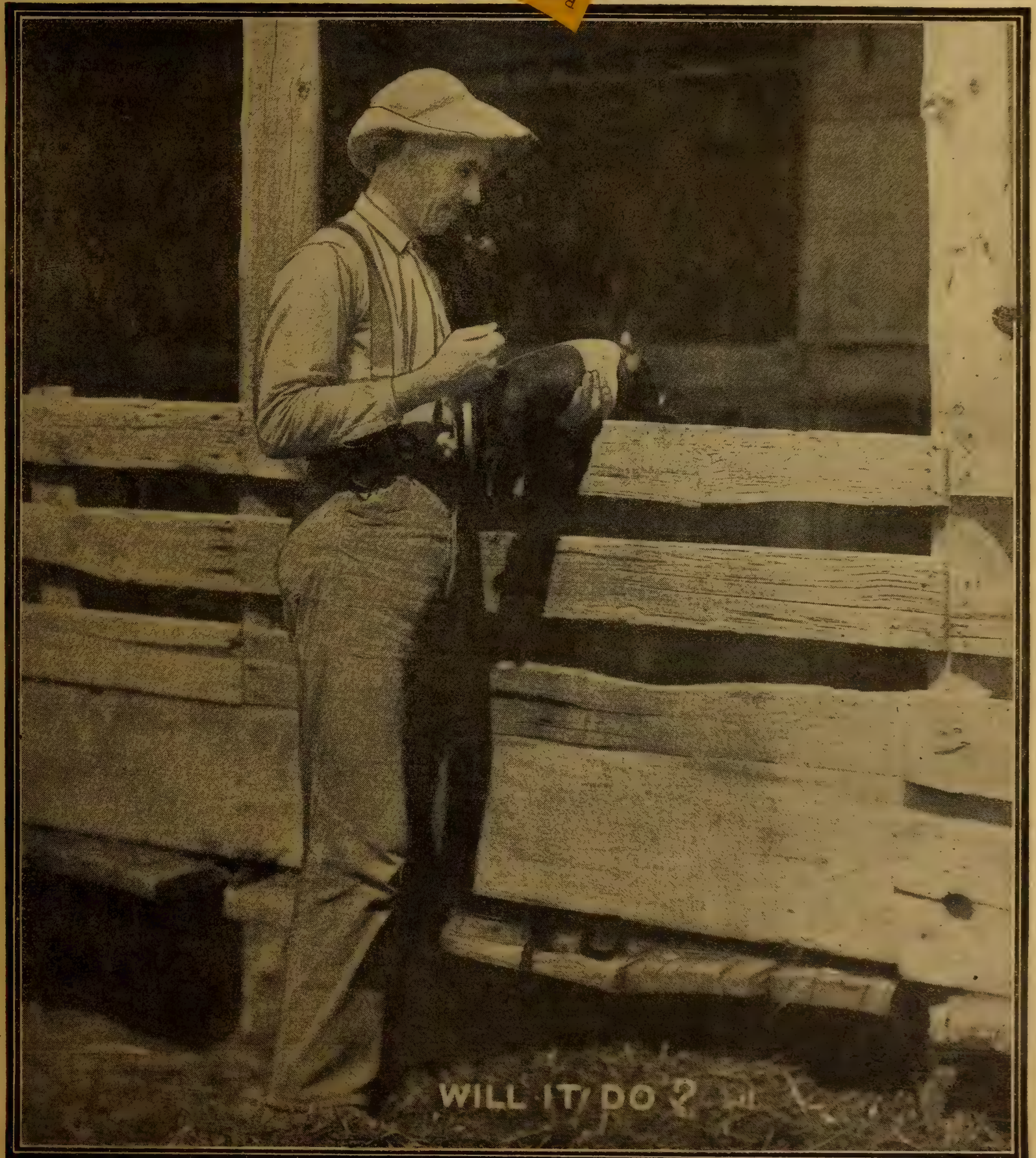
VOL. LVIII. NO. 22 DES MOINES. 29, 1913. WHOLE NO. 2903



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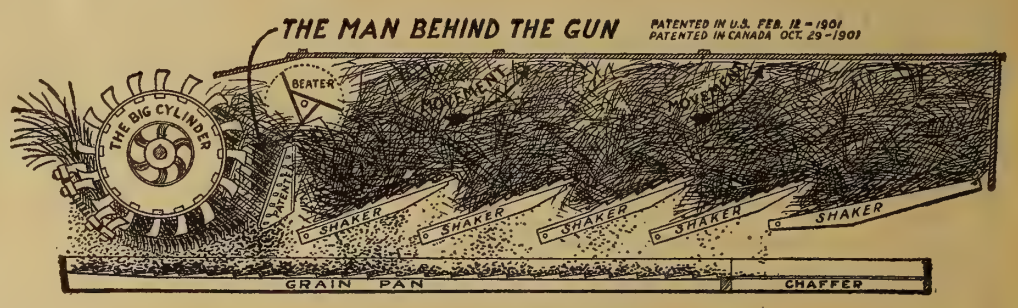
The wastage of grain by the average Threshing Machine is far more than many suppose. The Operator usually knows it, but he can't help it with that kind of Machine, so he covers it up all he can and lets it go at that. The Farmer suspects it, but thinks he has to put up with it, and much of his hard-earned money goes over into the straw stack.

This great wastage is the result of employing an incompetent type of Threshing Machine that rushes the straw to the stack, **but does not beat the grain out of it.**

THE RED RIVER SPECIAL WORKS ON AN ENTIRELY DIFFERENT PRINCIPLE OF SEPARATION from any other make of Threshing Machine. It **beats it out** while other makes hurry the straw to the stack and expect the grain to fall out, which it does not do.

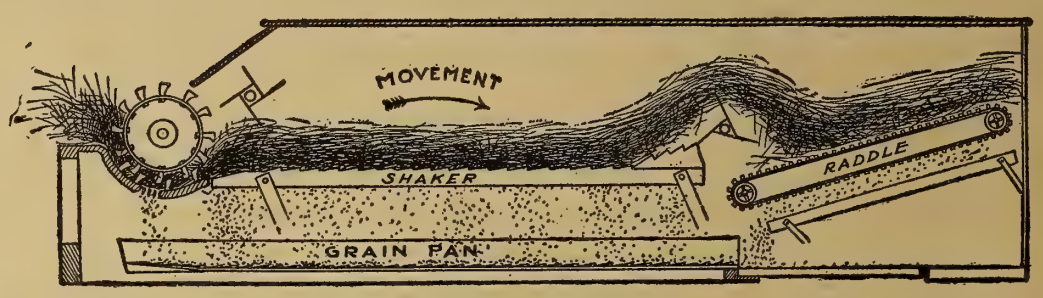
Note carefully the following illustrations:

This is the way to Separate by hand with a pitchfork



This is the way the **RED RIVER SPECIAL** *Separates*
IT BEATS IT OUT—*like you do with the pitchfork*

This is the way the Lazy Man tries to Separate with a pitchfork



This is the way **OTHER KINDS** *try to separate*
THEY DON'T BEAT OUT THE GRAIN

The Red River Special is the only Threshing Machine that uses the **true and sure method of separation by beating the grain out of the straw** just as you would do with a pitchfork.

The Big Cylinder, the Man Behind the Gun, with the **Patent Grate** and **Check Plate,** and the Uplifting Shakers that toss the straw up and **beat it as you would do with a pitchfork** save the grain that others waste, whether it be wheat, oats, rye, barley, flax, peas, rice, alfalfa, timothy or other grains or seeds.

WE HAVE THOUSANDS OF TESTIMONY LIKE THE FOLLOWING:

Joseph Rinkenberger, H. J. Meyer, Godfrey Ginzel and sixteen other farmers of Gridley, Ill., say: "We know from experience that your Red River Special Separator, when properly managed, will save enough extra grain that other machines waste to pay our thresh bills each year just as you advertise." The Girard Threshing Company, consisting of R. H. Syth, James McConnell, Louis Deceker, Ira Allen, Will Syth, Oscar Kippenham and A. Redmond, of Girard, Mont., with our 25 H. Double Cylinder Engine and 40x60 Red River Special Separator, say: "The whole rig has given entire satisfaction; steams easily, pulls well, and the Red River Special does all that is claimed for it in threshing fast and saving the grain." H. W. Herren and H. E. Smith, of Hastings, Nebr., say: "The new 36 x 56 Red River Special Separator bought of you last July does fine work in any kind of grain; is a good cleaner and a very fast thresher. We have operated two or three other makes of machines, but your Red River Special just beats them all." Mr. M. Spangenberger, of Elgin, N. Dak., says: "Anybody who has worked with your new Red River Special will think a long time before he will buy any other make of machine, for it will save all the grain from the straw pile and cannot be equalled for fast and clean flax threshing." The Weiand Thresher Company, of Glen Ullin, N. Dak., says: "Your Red River Special Separator is the best we have ever run and we have done threshing for the last ten years. It surely does save the farmer's thresh bill and does all you claim for it. We thought we had used good separators before and felt satisfied with their work, but since we have run the Red River Special we have just learned to know what a good machine is." Peter Junk, L. Bunmeister, W. H. Rankin, W. H. Robinson, G. F. Thompson, Mat Mertz and ten other farmers of Downs, Osborne Co., Kans., say: "We had our threshing done this year by your Red River Special Separator owned by C. E. Brake, and are entirely satisfied with it, and believe it saved enough grain that other machines would have wasted to pay our several thresh bills." Wm. Bronner, Peter Hanson, Ed. Brandle, M. I. Grass, Geo. Price, all farmers of Andover, S. Dak., say: "Your Red River Special run by Wm. Roth threshed our grain this year and did a very fast and clean job in threshing, taking all the grain out of the head, separating it from the straw, cleaning it perfectly and saving all the grain." Mr. Claus Anderson, of Wilmar, Minn., says: "Your Red River Special Separator that you sold Peter Erickson this year has threshed for me, and I am well pleased because it cleans well, threshes all the grain from the head, runs right along from morning until night as steady as you could wish, and more than all that, it saved all my grain."

Write us, or any of our customers, or call on our Branch House or Dealer for proof that **It Saves the Farmer's Thresh Bill.**

NICHOLS & SHEPARD COMPANY, Battle Creek, Michigan

IN CONTINUOUS BUSINESS SINCE 1848

The only builders of the Red River Special Line of Threshers, Self-Feeders, Wind Stackers, Weighers, Traction Steam Engines, Oil-Gas Tractors and Everything for the Thresherman.

BRANCH HOUSES, with Repairs, at Kansas City, Mo.; Minneapolis, Minn.; Billings, Mont.; Indianapolis, Ind.; Madison, Wis.; Lincoln, Nebr.; Fargo, N. D.; Regina, Sask.; Des Moines, Iowa; Peoria, Ill.; Winnipeg, Man.; Nashville, Tenn.; Dallas, Texas; Spokane, Wash.; Salt Lake City, Utah.

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WHOLESALE PRICE TO FARMERS
ALSO FULL LINE OF FARM IMPLEMENTS AND GASOLINE ENGINES, ETC.
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New York's Exclusive Woman's Hotel
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Restaurant and Tea Room for Men and Women
European Plan. Rates $1.50 and Up.
Convenient to subway and crosstown car lines. Center of Theatre and Shopping District. 450 rooms with telephone. Baths free on each floor. Fireproof. European Plan.

LUMBER AT COST From mills direct. All middle profits saved. We furnish everything in building lumber. Send list. Addres MODERN LUMBER CO. Dept. H, Tacoma, Wash

DRAINAGE You can drain your land without digging a ditch. Write for circular at once.
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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 29, 1913.

LIVE STOCK AND CROP ROTATION

Business Ability and a Capacity to Put Through a Correct System of Crop Rotation Bring Profitable Returns and Add to the Value of the Farm.

NINETY bushels of corn to the acre, thirty bushels or better of wheat, and 275-pound hogs at ten months old, look like good farming in the face of the average yield per acre of 27.1 bushels of corn and 15.5 bushels of wheat. The latter figures are given by government statistics and refer to the average yield of the entire country. The former records refer to the product of Elmland Farm, owned by H. B. Wilkinson & Bros., Mitchellville, Iowa, from which were obtained the accompanying illustrations. While Elmland is a good farm, it is no better than many thousands of others that lie in the broad Mississippi valley. The striking difference of yield is due to men and methods, and not to any favored natural fertility of soil. It illustrates the difference between the mere existence gained by the heedless soil robber and gainful accumulations of the thoughtful, discerning farmer. The cost of production may be considered practically the same. Elmland is a farm in which the productive capacity each year grows greater. It is not only a farm, but a factory which turns the raw products of its acres—its grains and grasses—into finished, marketable goods—cattle, horses and hogs. And the goods are of a sort which are of good repute in the marts to which go the buyers who look for the best. The animal equipment includes Shire horses, Aberdeen Angus cattle and Poland China hogs. The great, drafty Shires are largely pure-bred and recorded animals, and a number of them imported directly from England. Imported stallions are kept in service on the farm. The best of the pure breds are sold for breeding purposes. The less desirable ones and the grades are eagerly sought for by eastern buyers, and always taken at satisfactory figures. A confidence in the advantage of the pure bred over the grade as a beef maker led to persistent use of recorded Aberdeen Angus bulls on the grades with which the farm was originally stocked until the present progeny carried all the appearances of the pure-bred animals. They, however, are being gradually replaced by the produce of the herd of recorded animals now maintained. While these cattle are not given any particular attention, they are in fact well cared for. Calves are dropped in the pasture, and both cows and calves are given feed enough to keep in good condition. With the exception of oil meal, which is given as a tonic only, all feed used is produced on the farm. Pasturage is a great element in carrying the cattle up to final fitting for market. Dry-lot feeding is practiced in putting on the finishing touches. Something of the quality of steers produced may be inferred from the fact that they have won honors at the International Live Stock Exposition, at Chicago, both in individual classes and in car-load divisions.

Poland China hogs were selected with the belief that in hardiness, easy adaptation to conditions, and early maturity they best filled all requirements The brood sows are all raised on the farm. New sires are obtained each year, and always pure-bred animals. Pigs are usually farrowed in April or May, and are gotten out on pasture as early as seems practical. They receive a light slop of shorts and tankage. A field of fifteen or twenty acres of corn is reserved, and as soon as it begins to harden the pigs are turned in to shift for themselves. They usually have it all cleaned up by early December, make an extraordinary gain, waste none of the corn, and require little attention. They are then turned after the fattening steers, given a little feed and are ready for market in a few weeks. The usual marketing age has been ten months, and the average weight at that time 275 pounds. From 300 to 400 hogs are raised each year.

The rotation of crops at Elmland covers a six or seven-year period. Three crops of corn are taken, then a crop of oats, and seeded to clover, when it is permitted to remain in meadow two or three years. At times a crop of fall wheat follows the oats, and after that the clover. Pastures, except some bottom land subject to overflow, remain four or five years. Under this system a yield of ninety bushels of corn per acre has been obtained. Wheat has averaged thirty bushels and quite often in excess of that.

Thirty or forty acres of corn is cut and shocked for winter roughage. Potatoes are something of an item, and in seasons of low prices they have been utilized for cattle feeding with excellent results. Cattle and hogs are always shipped direct to the Chicago market, and all middleman profits are eliminated. The size of the farm makes it necessary to buy some feeding cattle in order to take care of its grain and grass product. If the purchased steers are yearlings they are carried over on pasture, but if older they go direct to the feed lot.

(Continued on page 7 .)

CALVES, COLTS AND PIGS—THE FOUNDATION OF AGRICULTURAL PROSPERITY.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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MEMORIAL DAY.

A particularly tender significance attaches to Memorial Day this year. It is always an inspiring sight, those thin, blue lines of heroes marching down the street or road to do homage to their comrades who fell. This year it is more than ever touching in its memories. One hundred years ago the battle which determined the second war with Great Britain was fought. Fifty years ago the pivotal battle of the civil war was fought. Commodore Perry's victory on Lake Erie established the United States among the nations of the earth. It forced the admiration of the world. It preserved to the young republic the states which are now the banner commonwealths of the middle West and the Northwest. The battle of Gettysburg was the turning point in the civil war; freedom triumphed over slavery fifty years ago this coming July. From every viewpoint of memory and patriotism there is more significance to Memorial Day this year than ever before.

The ranks of the blue-clad survivors are thinning. The veterans march to the cemetery with slow and faltering steps. Their life course is almost run. Fifty years ago they were in the flower of manhood. Today they are in their sere and autumnal leaf. The bright colors of youth are fading, they are dimmed almost beyond discernment now. There can be but few more Memorial Days in which the men who saved the Union in the years that tried men's souls can participate. It is all the more fitting, therefore, that a pause should be made in the practical work of the world and reverence be paid to their deeds and memory. A nation without memories is poor indeed. Memorial Day is the crystallization of national memories into individual tributes. There is no duty confronting us, whatever the season, or whatever our individual fortunes, which can supplant in necessity the payment of loving tribute to the men whose glorious bravery perpetuated the nation.

The United States is what it is today because of what these men were yesterday. They quit the plow, the loom, the desk; wherever they were working. There were loved ones to minister to then fully as much as today. There is not a man living today with a duty to his family who would have more to sacrifice than had those soldiers who marched to the front fifty years ago. There is no time limit to self-denial and service for the common good. Babies cried with hunger because men fought at Gettysburg and Antietam and Chancellorsville. Women went about their daily toil with awful suspense tugging at their heart strings. Uncertainty was in the air, everywhere. Word came from the front, it was pregnant with sorrow. Men fell, but others stepped into their places. Women's faces became drawn and haggard, babies' faces became pinched. But still the men fought on. Can any one of those pages be turned over thoughtlessly today and the reader deserve prosperity and peace?

It is because of all the particularly tender and touching significance which attaches to Memorial Day this year that we urge upon every one the prime importance of paying such tribute as is possible to the men whose deeds and whose deaths insured the perpetuity and the prosperity of the nation. There can be but few more Memorial Days with such opportunity, there may never be another with such significance. Make Memorial Day this year an occasion for the rekindling of the fires of patriotism and devotion.

ALFALFA ALONE NOT A PERFECT FOOD FOR HOGS.

Ten pigs weighing seventy-five pounds were turned onto a one-acre alfalfa field at the Oklahoma experiment station during the month of April last year. They were put there to see if they could make their own living without any supplementary feeding whatever. For the first thirty days these shoats made an average daily gain of one pound and their healthy condition indicated that they could be finished for market on alfalfa alone. That this could not be done, however, was wholly disproved in the next thirty days during which time these same shoats lost twenty-four pounds. In other words, at the end of sixty days they only averaged six pounds more than when they were turned into the alfalfa. During the last forty days of the experiment they gained seventeen and one-half pounds, which is a little less than an average of one-half pound daily. During the whole 100 days each hog gained twenty-five and one-half pounds or one-quarter of a pound a day. At the end of the experiment the hogs looked very thin and were in no condition whatever to be marketed.

Side by side with this lot of hogs was another that was fed a half ration of grain in addition to alfalfa pasture from which seventy pounds' gain was made per head in 100 days. These hogs were fed an average of 2.8 pounds of grain daily per head. In this case it required 406 pounds of grain in addition to the alfalfa pasture to make 100 pounds of gain.

A similar lot of hogs was pastured at the same time and fed in addition all the grain that they would consume. They ate an average of 5.6 pounds of grain daily and during the 100 days they gained 128 pounds each. It required, in this case, 440 pounds of grain to make 100 pounds of gain, this being in addition to the alfalfa pasture.

The value of the pork from each acre was computed by Prof. W. A. Linklater and it was found that where a full grain ration was fed the alfalfa was worth $19.60 per acre. Where only half a grain ration was fed the alfalfa brought $13 per acre, while in the case of hogs fed no corn whatever alfalfa to the value of $18.75 was produced.

MINERAL MATTER IN ANIMAL NUTRITION.

Men have written and talked for years of the advantages that the limestone sections hold over some of the other parts of the country. Lime is an important element in animal nutrition. In many of the European countries it is used freely on meadow and pasture land. In a recent duck feeding experiment it was found that the development of these rapid-growing birds was largely dependent on their food containing a sufficient supply of bone-building material. Cattle, especially young animals and the cows in calf, may be seen chewing bones or lumps of dirt or old plaster where lime or phosphorus is deficient in their food. Iron and sulphur may also be lacking. Horses that receive pure spring water have been known to fall off greatly in condition when they had previously been supplied with water that came through miles of iron pipes.

Mineral salts assist in the movement of the liquids through the body and tissues; for example, from the alimentary canal into the blood and also the reverse of this action, and from the blood into the tissues, and from the tissues into the blood through the kidneys. In this way the salts of foodstuffs act as laxatives and stimulate the action of the secreting glands: they are also necessary to preserve the cells in their normal condition by regulating their distension by liquids. It has been recently shown that it is the mineral constituents of wheat bran which make it a laxative feed, because if it is freed from these salts it is quite constipating. This seems to explain, at least in part, the well-known laxative effect of a bran mash and discredits the idea that this action is due only to a mechanical condition of the food. Lime in the blood is essential to its coagulation. It is a safety precaution without which small wounds would result in death by bleeding. Mineral salts keep in solution various nitrogenous elements which are not soluble in water.

Females that are carrying young, and young, growing animals, have a great craving for these mineral constituents because nature stores up these elements in the body of the unborn in anticipation of the poverty of the milk in these essential elements. During all of the sucking period the little animal is drawing upon this reserve, and lowering the per cent of mineral nutriments in its body, so, if an animal is kept too long on milk alone, it will become anemic.

The experiments made in pig feeding are perhaps of the greatest interest because pigs make a more rapid growth than other animals and because corn, their principal food on many farms, is very deficient in the mineral constituents. In trials made at experiment stations in Wisconsin, Kansas, Missouri and Alabama, an abundance of protein and mineral matter in the feed not only increased the development of all the vital organs and of the muscles, making a greater proportion of lean meat in the carcass, but it increased the strength of the bones. In feeding pigs corn alone, corn and wood ashes and corn and bone meal Professor Henry, of Wisconsin, reported that the pigs fed corn meal developed bone twice as strong as those fed corn alone, and the bones of those fed corn meal and wood ashes were 93 per cent stronger than those fed corn alone. This shows that in feeding corn to growing pigs we cannot afford to overlook the importance of having an abundance of protein and mineral matter in their rations.

Lime and phosphorus are the two minerals most used in the production of bone. Potash is of especial value in making tissues, both bone and flesh. To produce the full development of bone the work must be commenced before the animal is born, by the use of these elements liberally in the female's ration during the time she is pregnant. As the development of bone to the full extent carries with it an increase in the size and vigor of all the vital organs and a large increase in proportion of lean in the carcass it can easily be seen that we cannot afford to neglect to supply our animals with plenty of bone-making material.

This brings us down to the problem of supplying these mineral elements in the most healthy and economical form. The legume plants are particularly rich in lime. In general, roughage contains more lime than grains. Among the feeds of commerce, such as gluten meal and so forth, where the outer hulls have been removed there is a deficiency of lime. Phosphorus is abundant in tankage, wheat bran, cottonseed meal, malt sprouts, soy beans and linseed oil meal. The phosphorus in these feeds is in a readily available form. Potassium, magnesium and iron are present in sufficient quantities in any common ration for live stock. Sodium, the base of common salt, is not present in adequate amounts for the animal's needs, but this deficiency has long been recognized and the salt supplied. Sulphur is usually present in the common feeds, but sheep seem to be greatly benefited by attention to this element. It is especially valuable in the growth of hair and wool. Cabbage, rape and turnips, so highly prized by sheep feeders, are very rich in phosphorus. Next to common salt lime phosphate is the most common mineral fed to stock. This is made from green bone by treating it with hydrochloric acid to dissolve out the bone earths and precipitation of the same by lime. This is done to get rid of the mineral matter in the manufacture of gelatine. In this process lime and phosphate are supplied at once. Some claim it is superior to ordinary meal, but my experience feeding bone meal has been so satisfactory that I would not advise anyone to make a change if the bone meal gives the desired results.

The main problem to bear in mind in making up rations that will contain adequate quantities of mineral matter is to feed a wider variety of foods. By feeding a variety of foods, some containing one and some others of the necessary minerals, one is more likely to approximate the right proportions than by confining his stock to but few kinds of food. The young animals and breeding stock need more mineral matter than the older animals. Of all grain feeds, corn is especially deficient in mineral nutriment. Legume hay and pasture grasses are valuable sources of these elements. Stock farmers should raise more alfalfa and clover hay and the like and depend less upon purchased feeds of commerce if they desire to promote the health of their breeding females and young stock of all kinds on their farms.

WHO SHALL DRAG THE ROADS?

There is a serious difference of opinion among authorities as to whether or not the responsibility for dragging roads rests solely upon the farmer's shoulders. Here, for instance, is one of the three members of the recently appointed State Highway Commission of Iowa declaring: "Take the road work out of the farmer's hands. It is not fair to the farmer to make him work on the roads. Now, I am a farmer myself. I pay my road taxes in money. There is no reason why a farmer should get out and work on the roads any more than should a banker. Then, too, road making is becoming too much of a business to let anybody and everybody practice it. One man should have supervision of the road work." And here, on the other hand, is one of the leading newspapers of the same state, a long and ardent champion of good roads, declaring:

Guthrie county men dragged a highway across the country in an hour and a half the other day. The dragging bee had been arranged for and was pulled off on schedule. It reminds of a story told by Jim Fisk, one of the early magnates and millionaires. He was the son of a shrewd old New England farmer. One day the old man told little Jim that if he would clean the stables well he would pay him a gold dollar for the service. Jim, with the golden reward in sight, tugged and strained and finished the stable on time. His father gave him the dollar. Then he said: "James, if you can clean the stables one day for a dollar you can clean them every day as a duty." And thereafter James cleaned out the stables.

If Guthrie county, and other counties, can drag the principal highways of the county in an hour and a half with a hurrah and to show what can be done they can drag the principal roads after a rain as a duty. An arrangement so successful as this should suggest a permanent system. The gratification with which those road draggers turned to survey their completed work ought to teach them that a good road is a joy forever. If it is worth making as an object lesson it is worth maintaining for everyday use.

Somewhere between the two extremities of opinion (turning the work over to experts and making the farmer do it all by himself) lies the ultimate and the satisfactory solution of the vexatious problem. There is no denying that road making has become as much a science and a profession as farming itself, or teaching school, or running a bank or piloting a locomotive. Why, then, should the farmer be expected to be the sole and only road maker and repairer, any more than the school-teacher or the rural mail carrier? Yet, on the other hand, the farmer has the first-hand, direct information of what roads need most to be made or repaired. He travels them most frequently; he should assist in bringing them to that state of permanency which will minimize his own troubles en route between farm and town.

In the last analysis, successful road making depends upon harmonious cooperation between individuals and county, state and national authorities. We may not have reached the stage when state aid to the extent of many millions of dollars is advisable, but we certainly have reached the stage when the burden should be taken from the unsupported shoulders of the farmer, where it has rested all too long. The farmer is perfectly willing to do his share; he simply objects to a hoggish policy which makes his share all the work and none of the credit or reward.

The 1912 marketed crop of apples of the United States reached nearly 31,000,000 bushels. Michigan, Missouri and Arkansas produced more largely than the others, while Ohio, Indiana and Illinois showed marked decrease. The entire product was one-third greater than for the previous year.

THE GEOGRAPHICAL CENTER.

That the grain belt is the center of the financial and intellectual stability and resourcefulness of the country has long been recognized, but that it is likewise the geographical center of the nation has not been so generally known. A dispatch from Washington this week is as follows:

A point ten miles north of Smith Center, Kan., is the geographical center of the United States. This fact has been established by experts of the geological survey. The calculation was made at the request of the officials of the census bureau, who had determined the center of population to be in Monroe county, Ind. The geographical center was ascertained by determining the center of gravity of a map of the United States. This map, which was on paper of uniform thickness, was so cut as to present an exact outline of the geography of the country. Then by the application of a system of line intersection it was ascertained that the geographical center was in Smith county, Kan. That point is the center of continental United States, as the calculation did not include the territory of Alaska or any outlaying possessions.

There is no disputing the fact that the greater part of the best original thought and work of the country today is coming from the middle West, commonly known as the grain belt. The standards of morality, of intellectuality and of literacy here are higher than anywhere else. The people here are more uniformly prosperous and progressive. The bulk of the political reforms emanated here. It is only right and proper that this section should likewise be the geographical center.

THE SEASON'S HOG CROP.

Without regard to whether the price of hogs will be up or down when the season's crop of pigs is ready for market, it is important that these pigs be given every care necessary to keep them healthy and thrifty. The conditions of the season in much of the corn-raising country are such as now compel the corn raiser to give every available minute of time to the work of getting the planting done. It seems worth while to sound a note of warning, lest in the absorbing interest in the corn crop the more important pig crop be neglected.

The little pig is entitled to a good start in life. Until he is safely weaned and his digestive machinery has become accustomed to the work of taking care of all that the pig finds to eat, he needs daily looking after. There is no other young animal on the farm that has as many infantile enemies as the little pig. His entire period of pighood is made up of successive dangers, which are the result of the unnatural conditions under which he is placed.

Most of us are too apt to overlook the simple sanitary precautions that mean so much to young pigs. Comfortable sleeping places and dry bedding are absolutely essential. Damp beds in drafty quarters go as far toward causing bowel troubles in pigs as does overfeeding or underfeeding The few minutes required to inspect or change the bedding daily is time well spent. An early pasture is not easily to be gotten along without. The exercise and the green feed combine to establish a well-balanced digestion. Besides that grass is the cheapest feed that can be provided. It does not so much matter what food be given the pig, so it is wholesome, if it has free run of a good pasture and access to water at will.

Just now the most important thing is to prevent any recurrence of the disastrous disease attacks of last year. On farms which were visited by cholera last year, danger still lurks in every unturned board. The duration of life of the cholera germ remains a debatable question, and perhaps it is just as well.

Every lot should have been plowed and put into a growing crop. It is not yet too late to do it. A periodical use of some dependable disinfectant should be made. A free distribution of lime should also be made every few weeks. Where at all possible get the pigs on ground not before used for the purpose. Sowing rape in the corn furnishes excellent pig pasture up to a time when they learn to damage the corn. It is surprising how little damage they will do until quite late in the fall. Rape in the oats makes excellent after-harvest pasture.

The legislatures of practically all hog-raising states have provided means of obtaining serum for the prevention of hog cholera. This should not in the least degree cause any cessation of endeavor to prevent the outbreaks of disease. Eminent authorities are still in doubt as to serum, but they agree in the belief that an animal once infected with the disease is beyond even the hope of help. While hogs do occasionally recover, they say the recovery can in no case be due to any treatment, medicine or serum, but rather to a less severe form of disease or extraordinary vitality of the animal.

The serum treatment is in no case offered as a cure, but only as a means of securing temporary immunity from disease—probably for a period of a few weeks and not to exceed three months. The simultaneous treatment is a dangerous means of obtaining protection, although when successful it affords permanent immunity. This form of treatment should be undertaken only by a veterinarian of absolute knowledge and ability. It should be kept in mind that it produces actual cholera, with the ability to spread the contagion just as readily and just as fatally as if taken by ordinary exposure. Any herd of hogs given the simultaneous treatment should be quarantined and the premises should be cleaned up and disinfected just as carefully as in any other case of cholera.

THE PURE-SHOE LAW.

The law which the Kansas legislature passed last winter to prohibit the sale of "adulterated shoes" is very necessary judging from a report made by Department of Agriculture investigators last week. Other states could well afford to follow the Kansas example and protect the farmer from unscrupulous manufacturers and dealers.

The government investigators assert that no less than 12,000,000 pounds of epsom salts and glucose are used each year in the loading and adulteration of poor grade leather for the soles of shoes. The adulterants add nothing to the wearing value and where present in large quantities may shorten the life of the leather.

The report says:

Sixty-three per cent of the leathers examined were weighted with glucose, with epsom salts or with both. The quantity of loading varied from 1 to 7.3 per cent of epsom salts with an average of 3 per cent. The maximum quantity of glucose in the loaded leathers was 10.4 per cent and the average 5.5 per cent. The maximum amount of these loading materials found in any leather was 16 per cent, and the average where both were present was 8 per cent. The results obtained indicate that not less than 12,000,000 pounds of glucose and epsom salts are sold annually to the American people. The "loading" is done to increase the marketable weight of the leather

The Kansas lawmakers realized that the fraud had reached such an extent that sharp action must be taken to prevent it, so a law was passed prohibiting the sale, under penalty of a heavy fine or imprisonment, of shoes which contain any piece of adulterated or imitation leather, whether it be called "leatheroid," "fiberboard," or any other high-sounding name, unless the shoe bears a plain tag in a conspicuous place acknowledging the use of such imitation or adulterant. We believe that this is a step in the right direction and might well be followed with laws applying equally strongly to other articles of wearing apparel. The farmer must be protected from fraud. The state owes its citizens a duty which it shirks so long as it permits them to be imposed upon by the unscrupulous.

IMPURITY OF FARM SEED.

A circular recently issued from the office of the Department of Agriculture gives some facts and figures with reference to impurity of seeds in the market, which are of general interest to farmers. One report takes up Kentucky blue grass of which 499 samples were obtained for analysis. Sixty-two of these were found to be either adulterated or misbranded; thirty-six samples contained less than 3 per cent of blue grass; an average of 59 per cent of Canada blue grass was found in fifty-three samples. In one instance no Kentucky blue grass at all was found, the analysis showing other seeds 64.06 per cent and dirt and chaff 35.94 per cent. An average of nearly 20 per cent of dirt and chaff was found throughout the entire lot, a greater average, in fact, than the quantity of pure seed. Red top was quite prominent as was also timothy, rye grass and crested dogs-tail.

Five hundred and thirty-eight samples of red top were obtained and of these 115 were found to be adulterated with timothy. Dirt and chaff were exceedingly prominent in practically every one of the samples obtained. Timothy seed was found in all of them and other seeds ran from less than 1 per cent up to 67 per cent. The results of these investigations indicate that there is need of more stringent laws with respect to the sale of adulterated farm seeds.

PURITY OF WATER IN FARM WELLS.

There is, perhaps, no one thing that farmers take for granted as much as that of purity of water in the wells, yet thousands of examinations of samples of drinking water taken from wells on farms indicate that a very large proportion of such water is polluted and much of it absolutely unfit for use. The location of a well is a matter for serious consideration. If it is not a deep well it should involve a knowledge of the natural underground drainage, so that there may be an avoidance of putting down a well where it would act as a drainage reservoir.

No water in a well which rises suddenly after a heavy rain should be made use of, as such rise indicates the close association with a water level which is apt to be contaminated by surface drainage.

The question is a most serious one, involving as it does, not only the health of the family on the farm, but the sanitary condition of the milk and butter produced, which, if not absolutely pure, extends its influence over an unlimited field. A government bulletin on the subject has the following important matter:

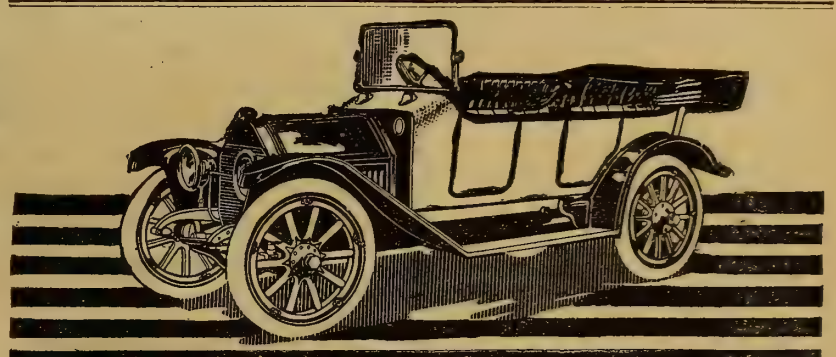
In the majority of instances the pollution, as shown by the chemical data, is derived from the drainage of the farm buildings and barnyard, and is consequent upon two causes—the location of the well and the dirty condition of its surroundings. When that most pernicious practice of sinking the well in the stable or barnyard is followed, provision is really being made to collect, as in a cesspool, liquid manure.

The amount of manure, the rainfall, and the porosity of the soil are the chief factors that will determine the rapidity and extent of the contamination of such wells; it is only in very exceptional cases that they can escape pollution. Let those about to sink wells, therefore, remember that they should not be dug in or near the barnyard nor under the farm buildings. Not a little of this rural well-water pollution is due to the filthy state of the buildings and yard.

The well being sunk at a safe distance from possible sources of pollution, the brick and stone work should be coated to the ground water line with a cement impervious to water. This will protect the well from infiltration of drainage from the upper layer of the soil. Further, a tight-fitting top should be provided, rising to the height of nine inches or one foot above the surface of the surrounding ground. This will prevent surface water, mice, rats and frogs from entering. The household slops, garbage, etc., should never be thrown on the soil in the neighborhood of the well; their proper place is the compost heap. Finally, the well should never be used as a cold-storage receptacle, nor the dairy or other vessels washed at the well unless there is an ample provision by a well-constructed drain to take away the wash water.

IOWA SWINE BREEDERS ASSOCIATION.

The annual summer meeting of the Iowa Swine Breeders' Association will take place at Ames, Iowa, June 18th. The officers of the organization have in preparation an excellent program, complete announcement of which will appear in our next issue.



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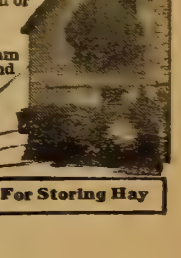


For Storing Hay

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Encourage the boys in entering the corn-growing contests; let the girls join the cooking club or the tomato-canning club. Train, teach, encourage toward the soil.

Don't get the habit of using the sprinkling-pot on the garden, if you possibly can avoid it, as you will have to continue to employ it till a good shower falls. Rather form the dust-mulch for the conservation of what moisture is in the soil.

Pass a dampened cloth over the shedding horses just before starting out on a drive with them. The loose hairs will cling to it and the annoyance of having them fly in the face will be avoided.

I find it doesn't pay to let a seeding stand too long. What is usually called a volunteer stand of clover seldom pays, because there is usually too much of a stand of it and it becomes sod-bound. Seed some other field and raise big corn on the sod.

All this noise about good roads might as well quiet down because when enough farmers have bought automobiles to make it worth while, they will go to work and build the roads and not say a word about it. That is their way of doing things.

An extra four-horse evener stick comes in handy. Much of the wood used in eveners nowadays is so poor it is liable to break at any time, and more particularly at a time when you are very, very busy and want to lose no time.

Mail order house catalogs are good books to have in the house, even if you are prejudiced against mail order goods, for they name the price of many things that many folks know not the value of.

Nine times out of ten the man who kicks on someone else doing road dragging for pay would not do it himself if he was to be paid the same price for it. I believe in road dragging, and in the road authorities paying for it, and if the dragging is well done at the right time, I do not care who has received the pay for it, just so it is the man who did the work.

If more of our farmers knew that the average yield of potatoes is less than one-half as high in the United States as it is in some of the European countries, it might enthuse them into "whipping up" a little in their efforts to make our soil produce something near what it ought to—not only in potatoes, but in various other crops.

Working in the field until rain actually falls is a sure way of getting soaked. I usually give the storm cloud the benefit of the doubt and try to get to the barn before proof is furnished that it is going to rain. Waiting to be convinced often ends in an unpleasant siege of the grip.

The newspapers are already giving us figures on the crops of 1913. I notice the winter wheat crop is already known, if newspaper reports are to be believed, but I imagine all of us will know much more about it after the threshing machine cylinder has hummed a few tunes.

One likes to be neighborly, but rather than overstock his pasture lands, simply to accomodate a neighbor, by taking in some of his stock, a farmer had better lock his pasture gates and wait till midsummer to turn his own stock in.

To plant small potatoes does not always mean to raise small potatoes One of the best crops of potatoes I ever raised came from small seed, but it was small because the year before had been a poor potato year, not because the seed was culled and the culls were planted.

Instead of buying more land to skin over in a hurry, would it not be a better plan, in some cases at least, to spend more time and some of the money in improving the land already owned. The production of many a farm could be added to 25 per cent by tile draining, at barely 10 per cent of the value of the land.

I always have been a great believer in the use of the harrow as soon as possible after the shower. I wait, if possible, for a shower when I have a piece of land to fit for any kind of crop or seeding. One harrowing after a shower does more good than three or four when the soil is dry.

Some of those who thought they had an oversupply of roughage are now drawing on what was to be their reserve and before another crop is ready for harvesting there will be room enough to take care of it. "Get plenty while you are getting" is a good enough motto when preparing for winter.

It sometimes pays to take some risks with Jack Frost at the beginning of the corn-raising season. Where one crop of corn is damaged by freezing weather in the spring there are ten damaged by being nipped at the ripening period.

Our friends who live in the drier parts of our country tell us that laying by something for a rainy day is not for them. It is laying by something for the dry days that worries. The point is well taken because it is the dry spells that hit their pocketbooks.

The King drag cannot be regarded as a road-making machine, but after a grade has been established, its use will keep the road in almost perfect condition. The main trouble is to find someone who has time to attend to the dragging when it should be done.

Preparing fall plowing for corn is more than loosening up the soil so that the planter will cover the seed. The weed-killing campaign begins when the disk is started and going after them hard at this time is another way of making a stitch in time save nine.

A few years ago the farmer did not look with favor on the city man's automobile, but things changed when the farmers found that they wanted automobiles of their own, and it seems that they do because they are the main buyers now.

Some of us will no more than finish planting this year until we will have to commence cultivating the first planted. I like to have corn large enough so there is no "strip" left in the row after the first cultivation—that is, have the corn large enough so any small weeds in the row may be covered.

Going over the outbuildings and making the necessary repairs, keeps them looking like new, especially if the paint brush follows the hammer and nails, and while the repair fever is on it might be well to look over the dwelling. It is hardly fair that the family should live in the only tumble-down building on the farm.

No-Rim-Cut Tires 10% Oversize

Not a Petty Saving

Don't think that Goodyears won their place through any petty savings.

They were once in bottom place. Today they outsell, by long odds, all other tires in the world.

They have leaped to leadership. The Goodyear demand has come like an avalanche.

Last year's sales by far exceeded our previous 12 years put together.

It took a vast, compelling reason to bring this change about.

Two Big Savings

The No-Rim-Cut tire—which we control—revolutionized conditions.

About one in four of all old-type tires were wrecked by rim-cut ruin. The No-Rim-Cut tire wiped out that loss completely.

Then the oversize we gave this tire added 10 per cent to the air capacity. And that, with the average car, adds 25 per cent to the tire mileage.

These two features alone vastly altered the cost of tire upkeep.

Other Savings

Then, year after year, we have spent fortunes on research and experiment.

That department now costs us $100,000 yearly. And there scores of our experts work all the time, seeking ways to better tires.

They test the tires by metered mileage—test every new idea. Night and day, four tires at a time are being worn out in our factory.

It was thus we learned, in the course of years, how to give you Goodyear mileage.

The Meters Tell

Bear in mind that meters are now used on countless cars. Men know which tire is best.

The time is past when users depend on makers' claims.

They measure mileage, watch their tire upkeep. And they tell their results to others.

Over two million Goodyear tires have gone out to meet these tests. And Goodyear sales have doubled over and over as men proved out the tires.

Judge by This

Judge Goodyear tires by the final verdict of the legions of men who have used them.

You can see the No-Rim-Cut feature—the oversize feature. But the main fact lies in their records.

Motor car makers have contracted for 890,680 Goodyears to be used on new cars this year. And our demand from users is twice as large as last year.

GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

The savings which did that are bound to win you when you make one test.

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities **More Service Stations Than Any Other Tire**
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
Main Canadian Office, Toronto, Ont.—Canadian Factory, Bowmanville, Ont.

(1083)

CURRENT EVENTS

A DECISION to equalize the agricultural schedules of the Underwood tariff bill was reached by the sub-committee of the senate finance committee to which the schedules were referred. For instance, if cattle, sheep, hogs, wheat and oats are to remain dutiable, as provided by the bill, then a duty shall be placed upon beef, mutton, pork, wheat flour and oat meal; if the raw materials are placed upon the free list, then the manufactured products made from these raw materials will likewise become free. The Underwood bill, in its present form, puts a duty of 10 per cent ad valorem on all live stock and free lists all meats, a duty of 10 per cent per bushel on wheat and oats and free lists wheat flour and oat meal. The senatorial sub-committee is determined that the schedules of raw materials and manufactured products shall be equalized, so that all shall either bear a proportionate duty or come in free impartially. It is considered likely that the full finance committee will bear out the sub-committee's finding in this respect and it is said to have President Wilson's sanction. An effort was made to amend the bill in this manner in the house, but it failed. Should the bill pass the senate in such amended form it will then go to conference between the two houses.

DEMOCRATIC victory in the senate on the tariff bill is forecasted by the result of the test vote on public hearings before the finance committee. The republicans, headed by Senator Penrose and Senator La Follette, waged a fight to compel public hearings, which the democrats opposed. Several days were spent in argument, but the democrats were victorious by a vote of 36 to 41, notwithstanding the fact that the two democratic senators from Louisiana joined with the republicans. The Louisiana senators are opposing the party measure because of the fact that it makes a sweeping reduction in the duty on sugar at once and provides for absolute free sugar in three years. Even with this loss, however, the Wilson program bids fair to be put through by a majority of four or five. Even should there be a tie vote the ballot of Vice-President Marshall would throw victory to the democrats. President Wilson's determined stand for free wool and ultimate free sugar has convinced the senate that opposition is useless and it is confidently expected that the Underwood bill will go through the senate, as it did the house. The finance committee will report the bill back about the first week in June, after which the long discussion on the floor of the senate will begin. The bill can hardly go to the president for his signature before the first of August. In the meantime the lower house is marking time, with a probability of starting currency reform legislation, with but little prospects of finishing it up at the present session, however.

CO-OPERATION between the federal department of agriculture and the various state agricultural colleges, to the profit and betterment of the farmer, is the plan of Secretary Houston. A conference was held in Washington recently between the new head of the department of agriculture and representatives from the agricultural colleges of Wisconsin, Ohio, New York, North Carolina, Pennsylvania and other states. A permanent committee will be named and frequent meetings held between the national and state agricultural workers. The most important co-operative effort will be to devise means for securing the greatest possible good both to farmers and consumers from the newly organized division of markets and rural organization service. The department, it was said after the conference, desires to co-operate along many lines, recognizing that the state colleges and the experiment stations should be the official agencies through which most of the agricultural work of the country should be undertaken. The new plan promises to further the already valuable work of national department and state college and to bring permanent results of improvement to the producer.

HENRY M. FLAGLER, one of the millionaire associates of John D. Rockefeller in the Standard Oil Company, and virtually the builder of Florida, died during the past week, in his eighty-third year. Mr. Flagler started out in life a poor boy. One of his most valued possessions, even when he became a multi-millionaire, was a five-franc piece (of the value of $1) which was all that he possessed after tramping many miles across the country looking for work. He was able to get along without spending his solitary coin and preserved it, to the day of his death, as his chief treasure. Mr. Flagler secured his start in the grain-buying business and becoming associated with Mr. Rockefeller went into the oil business, amassing a fortune. He became interested in Florida some years ago and erected a string of magnificent, palatial hotels in the famous Florida resorts. He also extended the Florida railroad systems and added to his already large fortune by catering to the needs of the rich tourists who spend the winters in Florida. Mr. Flagler had been sick for some time. He devoted his life to making money and was eminently successful at the task.

BECAUSE of the fear that the recently signed anti-alien land act will work harm to its affairs, the Panama-Pacific Exposition, which will be held at San Francisco beginning Februray 20, 1915, is using its influence to secure a postponement of the enforcement of the law. Although Governor Johnson has already signed the bill it does not go into effect for ninety days. In the meantime strong opposition is coming from three sources: the democrats in the state; the Asiatic Exclusion League, which believes that the law is not strict enough; and the exposition officials, who see a danger of Japan withdrawing from the exposition and possibly taking other friendly nations with it. Petitions for a referendum vote on the new measure will be circulated shortly. There is much difference of opinion in California as to the necessity and advisability of this new law, which prevents aliens ineligible to citizenship from owning lands for agricultural purposes or leasing them for more than three years at a stretch.

LIVE STOCK AND CROP ROTATION.

(Continued from page 3.)

This manner of feeding has demonstrated that the pure-bred steers raised on the farm bring a much greater percentage of profit than those which are bought. Their early maturing propensities and easy feeding qualities get them into market quicker and in better form. The manure spreader and the system of rotation contribute to the upward producing capacity of the land, so that today its possibilities are greater even than when first broken.

An important consideration that is too often overlooked is the economical utilization of manure produced by swine. Dry lot feeding in summer is often associated with a heavy waste of manure on account of the large part of the manure that is leached or blown away when deposited in bare lots. Feeding on pastures or in cultivated fields will do much to obviate this loss since a large proportion of the droppings and urine will then be deposited in the field where the fertilizing constituents may be utilized.

Flying Dutchman Hay Tools

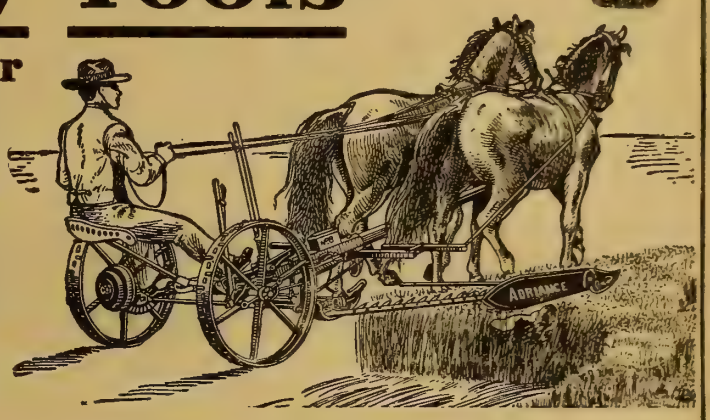
The Adriance Mower

has many exclusive improvements—its durability and convenience have made it a great favorite wherever used.

Adriance Mowers have the best cutting apparatus the world has ever produced.

The coupling frame hinges are in exact line—no chance to bind. The Cutter Bar swings like a door. It will always follow the ground, and can be swung over the tongue when not in use.

The Automatic Spring Draft prevents damage to the driver or machine when striking an obstruction.



The Crank Shaft has bronze bearings, the only successful bearings for a high speed Mower.

The Foot Lift raises the Bar with a natural forward movement, and helps to brace the driver in the seat—convenient and safe.

No Sprockets
No Gears
No Ropes
No Webs

The Flying Dutchman Hay Loader

is the simplest, lightest draft and easiest handled Hay Loader built. One man can easily operate it and drive the team. Hasn't a gear, chain or sprocket to break and cause delays. It has the long, natural, easy stroke of the hand rake and cleans the stubble thoroughly and carefully places the hay on the wagon, without tearing off the clover leaves and without jarring the loader to pieces.

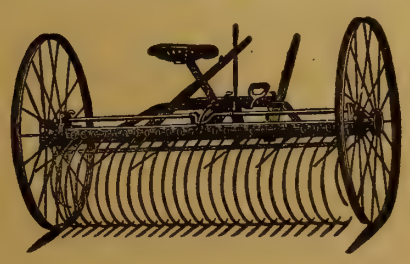
It can be depended upon to give perfect service every hour during the haying season. No delays—no trouble of any kind.

The yielding deck permits handling lightest swath or heaviest windrow with equal ease and satisfaction—requires no adjustment.

The Flying Dutchman Side Delivery Rake and Tedder

combines two machines in one. A perfect side delivery Rake—a perfect hay Tedder. Can be changed from a Rake to a Tedder in five minutes. It is built entirely of steel (except the tongue) and will give splendid service. Being convertible from Rake to Tedder, its use may save your hay crop.

The entire machine is raised and lowered by one lever without the driver leaving his seat.



The Adriance All-Steel Rake

has large wheels with replaceable spokes, plenty of clearance. The frame and axle are very strongly constructed of angle steel bars. Has great strength combined with the best of working qualities.

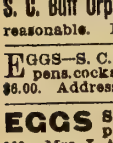
Free Circular in Four Colors—Write Today

Moline Plow Co.

Dept. 11, Moline, Illinois

160-page Poultry Book 10c by mail.

LANDOLOGY FREE A magazine giving the FACTS in regard to the land situation. 3 months trial subscription. If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it *"Personal"* and say *"Mail Landology and all particulars free."*
Address: **LLOYD M. SKINNER, Gen. Mgr. Skidmore Land Co., 123 Hall Ave., Marinette, Wis.**



LICE KILLER Liceell, strongest lice killing compound made. Works like magic. Simply put a few drops in nests and hang bottle in coop. Powerful evaporating vapors go into feathers, cracks and crevices. No painting, spraying or dusting. Easy to use. Circular free. Pound bottle prepaid 50c. Money back if it fails. **Agents wanted W. H. Metzger Co., No. 79, Quincy, Ill.**

ORPINGTONS.

WHITE ORPINGTONS

Egg prices cut in two. $3.75 per 100. Chicks one-third off. No chicks after June 15. After June 15 a large number of good breeders will be offered to make room for the 2,000 youngsters coming on. Your chance. Book orders now. White Wing Poultry Farm, C 294, Perry, Iowa.

RARE BARGAIN IN WHITE ORPINGTON EGGS

EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address **F. Fortmann, Box 23, Dyersville, Iowa.**

S. C. WHITE ORPINGTON

KELLERSTRASS strain, and White Wyandotte eggs for sale, scored birds; big, heavy-boned stock; 15, $1.50; 30, $2.50. Frank G. Myers, Iowa City, Ia.

S. C. Buff Orpingtons exclusively. Eggs from high-scoring special matings, $1.50 for 15; utility flock $1 per 15. Stock for sale. V. H. Conner, Shell Rock, Iowa.

Buff Orpingtons S. C. Eggs $1 for 15 or $4 for 100. From prize-winning American silver medal strain. Fine layers, heavy weight. Address W. M. Shaw, R. 6, Newton, Iowa.

WHITE Orpington eggs, Kellerstrass strain. Pen 1 scoring 93 and up, $5 per 15; pen 2 scoring 90 and up, $2 per 15. J. P. Schowalter, Wayland, Ia.

Coleman's famous Buff Orps., Prize winners, June sale, 100 yrlg. hens, 6 cks. Eggs, young stock half price after June 1. Mrs. C. E. Coleman, Clarinda, Ia.

S. C. Buff Orpington Eggs Have 2 pens, mated and range flock. Prices reasonable. Ben Bradshaw, R. D. No. 1, Truro, Ia.

EGGS—S. C. W. Orpington, Kellerstrass strain, 2 pens, cocks score 93 and 93½; 15, $1.50; 30, $2.50; 100, $6.00. Address A. E. GOODMAN, Indianola, Iowa.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $6 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

S. C. Crystal White Orp. eggs from large, healthy birds, fine laying strain; sitting, $1.50. Prices on larger orders. Mrs. Howard Niswander, Kinross, Ia.

S. C. Buff Orp. Eggs. 3 select pens; $3 for 15; $5 for 30. Farm range eggs. $1.50 for 15; $3.50 for 50; $6 for 100. Glynn Poultry Yards, L. B. 69, Cascade, Ia

KELLERSTRASS WHITES From a $100 pen. Also Owen Farm Buffs. Eggs $5 per 100 Orpington Farms, Big Rock, Ill.

CRYSTAL WHITE ORPINGTON EGGS for SALE

$1 per setting of 15. J. M Poole, Bristow, Iowa.

EGGS from S. C. Buff Orpingtons. 15 $1; 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

LANGSHANS.

Langshan Eggs Large black eggs from stock scoring to 94. $1 per 15, $2.25 per 50, $4.50 per 100. Mrs. Geo. Tutt, Marathon, Iowa.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

BLACK LANGSHANS Scored by Hale & Bridges. Eggs, $2 per 15; $1 per 15; $6 per 100. Mrs. L. A. Catlin, R. 2, Roseville, Illinois.

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poutry Farm, Hedrick, Ia.

ANDALUSIANS.

BLUE Andalusian Eggs for hatching. Prize-winning stock. Eggs $1.50 per 15. **CARL R. WEBER, Truman, Minn.**

EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. **A. J. Arends, Blairsburg, Ia**

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

THE WORTH OF WELL-BRED HENS.

To the Editor of The Homestead:

The question is often asked, "Can we afford to pay out money for expensive poultry?" We have asked that ourselves and never until quite recently been able to give a satisfactory answer. True, it has seemed to us worth while to get now and then a a sitting of eggs from stock that was better, or supposed to be better, than our own, in the hope that we might get a few more eggs by means of the better blood we thus introduced into the flock. And yet, the advantage was so slight that we could scarcely notice it.

A year ago this spring, however, we made a pretty complete change in the stock on the farm. The old birds were weeded out and their places taken by the best strain of White Leghorns we could find. We selected those particularly because we had noticed that whenever we had any birds of this breed we always knew that we would have a pretty good supply of eggs from them. Then, too, the young man who came to have charge of the poultry business for us had a warm side for White Leghorns.

After a year's experience with these better birds we feel that there is a great advantage in having such stock, to the exclusion of all or any others. The hens were young last season and they no doubt have done their best for us in the last twelve months. Certainly, we have had a steady flow of eggs, winter as well as summer, and they have been mostly eggs that would sell for the highest market price, there being few undersized eggs. These eggs have mostly been shipped to the eastern market and have brought the top price. Compared with the birds we used to have and with those people now have about us, we see great reason for congratulating ourselves; for while others have been complaining of getting few or no eggs, we have had a good yield right along.

There is another thing about keeping well-bred stock, and that is that after we have built up a reputation for good layers, there is almost always a demand for chicks and surplus stock. This may be made a source of considerable revenue, for there is a tendency on the part of nearly all farmers now to get better poultry.

I am satisfied that the choice stock calls for better care and better buildings. There is something about human nature that favors this. If we have a good thing, we feel that we must keep it good and if possible make it better. We are more proud of fine poultry than we are of commonplace stock. Extra work brings its return, always and everywhere. There is every reason to believe that the man who has just average stock may greatly increase his profits by giving the business more care and closer attention. Even ordinary hens will respond to this favoritism, if such we may call it.

But that is not all there is to better stock. It stands to reason that poultry bred for a special purpose should do better than that which never has had the benefit of such care and breeding. We have still much to learn in this direction, but on our own farm we already know that better stock pays and pays well.

E. L. Vincent.

THERE ARE ENOUGH BREEDS.

To the Editor of The Homestead:

Every little while some one bobs up with a brand new breed that is a world beater. Now, as a matter of fact, there is a breed for every purpose—and a variety of each breed to please every fancy. Better far to get busy and keep the good, dependable breeds that are already with us from deteriorating. No matter how much superior stock we buy, in the end it will be exactly on par with the environment we give them.

It may be that this simple illustration will give more clearly the idea I have in mind: From a hundred birds there are always from six to one dozen of superior quality, or at least, better than the other eighty or ninety. A woman came to our yards on Thanksgiving day and got the pick of our season's lot of youngsters, and he was a dandy, too. Later in the winter another customer came and she found only a few cockerels left, all of which were late hatched. We selected the best from the lot and the matter was forgotten for nearly a year.

I chanced to visit the homes of these two customers only a few days

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address **R. R. STEWART, R. 2, Charles City, Iowa.**

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00; 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address **DAVENPORT & MACK, Belmond, Iowa.**

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

S. C. W. Leghorn Eggs for hatching, 5c each. Will prepay express on all lots over 50. Baby chicks 10c ea. White Feather Poultry Farm, H. L. Darby, Prop., Hazleton, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $3, 100. I. R. D. eggs $1.25 per setting or $4.50 per 100. Farm range $3.50 per 100. Mrs. G. W. Brockway, Clarksville, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

REDUCED S. C. W. Leghorn eggs. Young's, 100, $4; 100 including 15 eggs from pen 2, $4.50; chicks, $10, 100 after June 1. Mrs. Wilson McIntyre, Red Oak, Ia.

EGGLAND EGG FARM. Single Comb White Leghorns, bred to lay. Eggs, $1 per 15, $4 per 100. Address Eggland Farm. Mt. Vernon, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

S. C. WHITE LEGHORNS Eggs 15, 75 cents; 30, $1.75; 50, $2.00; 100, $3.50. Good clean stock. **Mrs. B. C. Marts, Hampton, Iowa.**

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Reuaud, Bondurant, Iowa.

ROSE COMB Brown Leghorn Eggs for hatching, of a fine farm range flock $1.00 per sitting or $4.00 per 100. Address Wm. Sailer, Ackley, Iowa.

Eggs, Eggs S. C. W. Leghorn, vigorous, free range, farm flock, 15, $1; 100, $4.00. Address Mrs. S. J. Philson, Harlan, Iowa.

R. C. Brown Leghorn Eggs $3.00 per 100, $1.25 per 30. High fertility. Address **Mrs. Nelson Hyde, Manson, Iowa.**

S. C. BUFF LEGHORNS 4 grand pens mated; eggs $1.50 per 15; range flock eggs $5 per 100. Norris & Norris, Grinnell, Iowa.

S. C. B. Leghorn Farm range. Eggs for hatching. Birds score to 95 points, 75c per 15, $2 per 50, $3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

R. C. B. Leghorns Exclusively. Fine layers. Selected eggs from choice range stock, $2 per 60, $3 per 100. Mrs. Chas. Lasley, Floris, Ia.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

R. C. Brown Leghorns Pure bred, 12 years, fine birds. Eggs $3 per 100; over that, 30c per dozen. Mrs. Laura Mather, Clarksville, Ia.

BABY CHICKS.

BABY CHICKS from fancy S. C. W. Leghorns, high-scoring, 10c each. Eggs $1.00 per sitting. M. E. La Shorne, Epworth, Iowa.

CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. **20th Century Hatchery,** Chatfield, O.

Baby Chicks 4 varieties, all pure bred stock Price 8c to 11c each. Catalog free 20th Century Hatchery, Dept. A, Chatfield, Ohio

R. C. B. LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. **George E. Banton, Epworth, Iowa.**

BRAHMAS.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine, large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

Eggs for hatching from pure-bred Light Brahmas at $2.50 for 50 and $4 for 100 Write at once to Mrs. J. M. Dries, Ashton, Iowa

DOGS.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

SCOTCH collie pups, over two months old. Parents are first-class workers and watch dogs. Males $8; females $6. F. Bollman, Wall Lake, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

WYANDOTTES.

White Wyandottes.

Egg prices cut in two. $3.75 per 100. Chicks one-third off. No chicks after June 15. After June 15 a large number of good breeders will be offered to make room for the 2,000 youngsters coming on. Your chance. Booking orders now. White Wing Poultry Farm, C 294, Perry, Iowa.

Silver Laced Wyandottes

I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display; 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson

Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address **Indianola, Iowa.**

WHITE WYANDOTTE EGGS

$1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2, unscored, $15 per doz. **Ethel H. Shaw, Route 6, Newton, Iowa.**

WHITE WYANDOTTE EGGS From special matings, including silver cup winners. Free range flock $1.25 per 15, $5.00 per 100. **Mrs. W. F. Prather, Atlantic, Iowa.**

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $1.50 for 15, $5 for 100. R. S. Tennyson, Clarksville, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs, $1 per 15; $2.50 per 50. W. H. Lisley, Milo, Ia.

White Wyandottes Exclusively. Scores from 92¾ to 95, chalk white, will please; $5 per 100; $1.50 for 15. **Mrs. F. O. Elliott, Kent, Iowa**

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble, Mrs. M. C. Humphrey, Derby, Ia.

W WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

EGGS, Large, Pure White High-scoring. White Wyandottes and Pekin ducks. Address **E. S. DYAS, Bellevue, Iowa.**

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices, R. B. Rowe, Indianola, Ia.

PARTRIDGE WYANDOTTE EGGS. Fancy Buff Wyandottes. Order now. Thos. L. Morlan, Indianola, Iowa.

FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

WHITE WYANDOTTES EXCLUSIVELY

EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

PHEASANTS.

CHINESE PHEASANTS Eggs from pure-bred birds. Ten eggs for three dollars, packed to carry safely. For information or eggs write T. B. McDonald, Lovilia, Ia

MINORCAS.

BLACK MINORCA Eggs in season, 15 for $2, 30 for $3.50, 50 for $5.00. Address H. L. Simpson, R. R. 13, Epworth, Iowa.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

HOUDANS.

HOUDAN EGGS from fine, large crested birds; 15 eggs $1.50; 30, $2.75; 50, $3.00; 100, $6.00. Satisfaction guaranteed. E. A. KAUFFMAN, Lockridge, Iowa.

RHODE ISLAND REDS.

Rose Comb Rhode Island Reds

EXCLUSIVELY.

EGGS FOR HATCHING

LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City.
Henry G. Walker - Iowa City, Iowa

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

RHODE ISLAND REDS

SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

EGGS FROM FARM RANGE EXCLUSIVE R. C. R. I.

REDS 75 cents per 15 or $4 per 100. Pen No.1, $3 per 15 or $18 per 100. Pen No. 2, $2 per 15 or $10 per 100. Address, mentioning The Homestead,
J. B. HEISEL, - Grinnell, Iowa.

"ALLENDALE" R. C. R. I. RED EGGS FOR SALE

EGGS from four fine pens, headed by males scoring high and prize winners at $2.50 to $5 per 15. Utility eggs from a fine flock at $1 per 15 after May 10th. Send for free mating list. Address
Mrs. J. H. Allen, New Sharon, Iowa.

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Single Comb Rhode Island Reds 4 grand pens headed by 2d and 4th cockerels Dubuque; 1st and 4th cockerels Oelwein. Eggs half price. $1.00, $1.50 and $2.50 per 15. Send for mating list. C. E. Hayes, Box A, Lamont, Iowa.

Eggs for Hatching R. C. Reds exclusively, farm range $5.00 per 100, $2.50 for 45, $1.00 for 15. Satisfaction gnaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

SPECIAL offer to all new customers ordering eggs from our S. C. Reds during May. Eggs, $1 to $5 per 15; $5 per 100. Free mating list. J. A. Holmes, Steamboat Rock, Ia.

R.C.RHODE ISLAND REDS

EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

REDUCED prices on R. C. R. I. R. eggs. Pen 1 ckls score 93 1-4, 75c, 15; Pen 2, 50c, 15; $2.50, $4 per 100. Miss Maggie Henning, Ira, Ia.

REDUCED prices on S. C. R. I. R. eggs from high scoring stock 75c per 15; $2.50 per 50. Baby Chicks. W. I. Price, Ira, Iowa.

EGGS from high-class R. C. R. I. Reds 75c per 15, or $3 per 100 for remainder of season. Address Mrs. Jno. Holmgren, Rolfe, Iowa.

S. C. R. I. Red eggs from a heavy-laying strain at 75 cents per 15; $4.00 per 100. Orders filled quickly. Address M. E. Edwards, Route 2, Walnut, Ia.

EGGS Rose Comb Reds, pen 1, cockerels score 93¾, 15, $1.25; 100, $5.50. Pen 2, 15, 75cts; 100, $3.50. Address Miss Maggie Henning, Ira, Iowa.

S. C. R. I. Red Eggs from bred-to-lay strains. pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1.20 for 30; $3 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

THOROUGHBRED R. C. R. I. Red eggs; pen 1, 15 for $1.50, 30 for $2.75; pen 2, 100, $4.75; 45, $2.50. Miss E. C. Powers, Osage, Ia.

EGGS from high-bred stock R. C. Reds; farm range, closely sorted, 75c per 15; $3.50 per 100. A. A. Worthington, Media, Ill.

Single Comb R. I. Red Eggs for Sale

15 for $1; 100 for $4. Address J. C. Porter, Ogden, Ia.

S. C. REDS Large, good shape, extra color. Great winter layers, fertile eggs guaranteed, 15, $1; 50, $3; 100, $5. Woodlawn Farm, Sterling, Ill.

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address **Mrs. Charles Belz, Conrad, Iowa.**

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address **George Hunt, Earlville, Iowa**

S. C. R. I. REDS Eggs 75 cents per setting, $4.00 per hundred. Address Mrs. A. O. Adkison, Oakland, Iowa.

S. C. R. I. RED Eggs from large, red, cup-winning stock, $5, 100; $1, 15; pen $2, 15. Address Mrs. Fred Miller, Adair, Iowa.

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30. **C. H. North, R. D. 2, New Hartford, Iowa.**

S. C. R. I. Reds Eggs from high-scoring stock, $1.25 for 15, $3 for 50, $5 for 100. A. B. Walton, Wilton Junction, Iowa.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

apart and the object lesson received was an eye opener. The choice cockerel had struck hard lines. The family lived on just a few acres and did not consider the poultry entitled to any feed only what they "picked up." Pretty scattering "picking" that! No grain was raised, the garden was fenced, but the "poultry has plenty of grass!" I could not believe that that faded, stunted mongrel was the snappy, proud business fellow that I considered my best less than one year since. "Pure-bred chickens don't pay," was the not very encouraging information I received. "Guess we'll sell 'em; someone must always stay at the stable and keep them away while the horse eats his corn."

The other cockerel, the late-hatched one that I was rather averse to letting go as a breeder because he was not yet developed, had grown big and broad and his plumage shone with the luster of health and prosperity. His mistress had been so well pleased with this improvement that she yarded him with a dozen of her best hens and this was the foundation for one of the best farm flocks of the kind in this part of the country. "What did she feed him?" Just what 99 per cent of the farmers feed their fowls—no more, no less. Minnie G. Stearns.

Roosters not needed; loafing hens; boarding cows; small-litter sows; run-down soil; these are what hold a farmer down.

POINTERS.

—Mrs. Chas. Whitlatch, Eddyville, Iowa, is quoting prices on Mammoth Bronze turkey eggs in her advertisement that appears elsewhere in this department.

—Carl R. Weber, Truman, Minn., is offering Blue Andalusian eggs from prize-winning stock for sale in his advertisement that appears elsewhere in this department.

—V. H. Conner, Shell Rock, Iowa, is advertising some special values on Single Comb Buff Orpington eggs for the next few weeks. See the announcement in another card.

—M. Hummel, Monroe, Iowa, has reduced prices on Barred Plymouth Rock eggs for the balance of the season to $1.25 for 15, $2.00 for 30. Prompt shipment and eggs guaranteed fertile.

—Mrs. John Holmgren, Rolfe, Iowa, advertises Rose Comb Rhode Island Red eggs for sale at special prices for the remainder of the season. See her advertisement in the proper department.

—Chas. L. Berry, Iowa City, Iowa, is offering White Plymouth Rock eggs for hatching at the unusually low prices quoted in his advertisement which appears in the proper department of this paper.

—For the remainder of the season W. I. Price, Ira, Iowa, announces that Single Comb Rhode Island Red eggs will be sold at reduced prices. See advertisement in the proper division of this paper.

—Miss Maggie Henning, Ira, Iowa, is offering Rose Comb Rhode Island Red eggs at reduced prices. Her advertisement appears elsewhere in this department. She writes: "My chickens are healthy, of a good-laying strain and eggs are hatching good."

—The Twentieth Century Hatchery, Chatfield, Ohio, are offering four varieties of chicks for sale at very moderate prices as per advertisement that appears elsewhere in this department. They will send catalog free. The prices quoted, however, are for delivery after June 17th.

—In furnishing copy for advertisement found elsewhere in this department, Mrs. C. E. Coleman, Clarinda, Iowa, writes: "I have been breeding Buff Orpington chickens for several years, and I believe I have, without a doubt, as good a flock as there is in the state, as my birds have won at the leading sows. At the last Clarinda show I won first, second and fifth on pullet; third on cock; first, second and fourth on cockerel, and third on pen."

—Ammy Bartow, Lynnville, Iowa, writes: "I am now offering eggs at one-half price, $2.25 per 100. They are hatching good and chicks are strong and healthy. Have received several orders from old customers and they speak very highly of stock and eggs. I have been a Barred Plymouth Rock breeder for over twenty years and my cockerel line is among the very best. I pack eggs very carefully and guarantee safe delivery and a good hatch. Chicks hatched in June make good winter show birds." See advertisement elsewhere in this department.

—In the advertisement on this page M. E. Edwards, Walnut, Iowa, makes some decided reductions in prices of Single Comb Rhode Island Reds. In a letter ordering this change the advertiser says: "I have advertised in The Homestead for over twenty years and have also advertised in other papers, but found The Homestead far the best of all. Its readers seem to have the progressive spirit and are always ready to buy anything that is good when it is offered for sale in The Homestead. I would not know how to get along without its weekly visits in my home."

PLYMOUTH ROCKS.

EGGS FOR HATCHING

BARRED P. Rocks exclusively for 30 years. Yards headed by cocks and cockerels scoring 92 to 92½ points. Descendants from first-prize winners. Cocks and cockerels weighing 10 to 13½ pounds, hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last showings. Eggs $1.25 per 15, $2.00 per 30. Prompt shipments and eggs guaranteed fertile. M. HUMMEL, Monroe, Iowa.

1898 BUFF ROCKS 1913

EGGS from 3 exhibition matings at $2 per 15; $5 per 30. Range flock $1 per 13; $2 per 30; $3 per 50. No culls in this flock, nothing scoring less than 90 points. Mating list free giving full description of matings.
M. E. KRAFT, - Brooklyn, Iowa.

Barred Plymouth Rock Eggs

And baby chicks from prize-winning stock and excellent layers of both matings. Write for mating list. Mrs. L. C. Reese, Prescott, Iowa.

Barred P. Rock Eggs for Sale

FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92½; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. **J. W. Wagner, Monroe, Iowa**

Barred P. Rock Eggs and Baby Chicks

HAWKINS, Thompson and Bradley strains. From high-scoring, good laying stock, heavy bone, deep, narrow barring. 15 eggs, $1.25; 30, $2.25; 100, $5.50; 200, $10. Mrs. Elsie Noble, R. 2, New Boston, Ill.

White Rock Eggs for Sale

FROM pen headed by grand champion male at 1911 Des Moines show. $2 per 15 or $10 per 100.
Charles Guth - - Berwick, Iowa.

BARRED ROCK EGGS

COCKEREL mating only. Carefully selected hens and pullets having size, shape and barring, 15, $1; 30, $1.75; 100, $4.50; two pens $2 per 15; headed direct from Bradley and will produce prize winners. Circular free. Address Ammy Bartow, Lynnville, Ia.

WHITE PLYMOUTH ROCKS

EGGS $1 per 15; $2 per 30; $2.50 per 50. Birds have been winners at largest shows. Order direct from this advertisement.
CHAS. L. BERRY, Iowa City, Iowa.

EGGS FOR HATCHING B.P.Rocks, fresh selected from fine narrow barred birds of large size scoring 90-92½. Winning and laying kind, wt. 10 and 12 lbs. 15, $1.50; 30 $2.25; 100, $5. G. J. Pfeil, Central City, Ia.

White P. Rock Eggs and Baby Chicks from high-scoring, prize-winning stock. Fishel strain. Free range. Eggs 15, $1; 100, $4.00. Chicks, 10 cents each. Address **L. A. CRULL, Route 2, Muscatine, Iowa.**

Thirty Years' Experience As a breeder and exhibitor of Plymouth Rocks. Eggs from barred, buff, white. $1 for 15, $2.50 for 50. A. Mathews, Mt. Union, Iowa.

BARRED Plymouth Rocks—Thompson, Felch. Hawkins, Bradley strains Again blue ribbon winners, 1912, Shellabarger judge. Eggs 15, $1; 30, $1.75; 50, $2.50; 100, $4. Mrs. Minnie Lenker, Wilton Junction, Ia.

B. P. Rock Eggs From best prize-winning stock, $1.00 per 15; $5.00 per 100. Send cash with the order. Address Mrs. R. J. Hargleroad, Arapahoe, Neb.

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

BARRED ROCKS Eggs from large, boned, bred-to-lay stock. Fine shape and color. $1 per 15. $1.50 per 30. Address H. M. SKIPWORTH, LUANA, IOWA.

W. P. Rock Eggs for Hatching from high-scoring stock, $1 per setting. Order now. Moncrief Bros., Center Jct., Ia.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS—Buff Rocks $1.50 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

B. R. RINGLET EGGS Pen eggs 15, $1.50; eggs from range flock 100, $4. Write for particulars. Grant Lynn, Spirit Lake, Ia.

Cut Rates White Rocks, White View Farm, Fishel strain. Eggs, $1 per 30, $1.50 per 50, $3 per 100. Mrs. C. E. Pugh, Menlo, Ia.

WHITE Rocks, farm raised, Fishel strain, cockerels score 93½ to 96. Eggs, 15, $1; 50, $3; 100, $5. Address Mrs. A. H. Klepper, R. 1, Muscatine, Iowa

BUFF ROCK EGGS at reduced prices from high-scoring, heavy-laying strain, $2.50 per 50, $4 per hundred. Address L. C. Crum, Red Oak, Iowa.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

EGGS—White Rock, headed by cockerels sired by grand champion at Des Moines show, 1911; $1.25 per 15; $5 per 100. Mrs. M. W. Coan, Little Cedar, Ia.

B. P. Rocks only; direct decend. of prize-win., high-scoring birds; good in shape, bar., size; thrifty birds; eggs 30, $1.25; 100, $3. J. M. Reeder, Earlville, Ia.

QUALITY Barred Rock eggs foom high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

Barred Rock Eggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100, $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4. Address **O. N. Woody, Route 3, Newton, Ia.**

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

PRIZE-WINNING White Plymouth Rocks, fine, large, farm raised. Eggs, $1.00 per 15, $4.00 per 100. Address Mrs. Jas. Pedley, Route 3, Britt, Iowa.

DUCKS.

White Runner Duck Eggs

NOW $1.50 per 12. Orders filled promptly. Our Breeder for sale, plenty of time to hatch ducks yet. Send in your order. Address
Rahn & Son, Box 144, Clarinda, Iowa.

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6. John M. Hall, Williams, Iowa.

Indian Runner Duck Eggs

FAWN and white, pure white eggs, 15 for $1.00; 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding; fair hatch guaranteed or another order at half price. I breed Shetland ponies. F. P. HEALY, Bedford, Iowa.

Fawn and White Indian Runner Duck Eggs.

FROM the Harshbarger Blue Ribbon strain. $1 per 15. Also White P. Rock eggs from fine strain. Bred to lay. Same price. M. A. Carty, Earlville, Ia.

Eggs From Champion Rouen Ducks

12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons**, R. 2, Prophetstown, Ill.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

Indian Runner Duck Eggs From a heavy-laying strain, 15 for $1.00, 30 for $1.75, 50 for $2.50. None but fresh eggs shipped. Edward Klinetob, Clarksville, Iowa.

Indian Runner Duck Eggs for hatching. Excellent layers, $1 per 15, $2.50 per 50. Address Herbert N. Jenny, R. 2, Clarksville, Iowa.

EGGS—Pekin ducks, headed by drake scoring 96¼ that won first at Dubuque, 13, $1.50. W. H. turkey eggs 25c ea. Mrs. M. W. Coan, Little Cedar, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26, $2.75. **MRS. C. A. ROBINSON, Griswold, Iowa.**

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels, Oakland, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

TURKEYS

MAMMOTH BRONZE TURKEY EGGS $2.25

per ten. Mrs. Chas. Whitlatch, Eddyville, Iowa.

MAMMOTH BRONZE TURKEY EGGS

$2.50 per 11. Mrs. E. Millard, R. 3, Earlville, Iowa.

FOR SALE M. B. turkey eggs by express or parcel post, 30 cents each. Address F. J. Sexsmith, R. F. D. 2, Orient, Iowa.

MISCELLANEOUS.

Dripps Has Fine Poultry

WHITE ROCKS Fishel strain. Eggs from show birds 13, $5.
BARRED ROCKS Eggs from Dripp's finely bred show birds. $1 per 13; $5 per 100.
WHITE LEGHORNS Eggs from Dripp's finely bred snow white show birds of best laying strains, $1 per 13; $5 per 100. Send me your order, mentioning The Iowa Homestead. Address **JOHN I. DRIPPS, Springville, Iowa.**

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS—Barred Rocks, Bronze Turkey—EGGS

BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

BARGAIN PRICES EGGS

S. C. R. I. REDS, $4 per 100; utility flock, special pens now half price, pens 1 or 2, $2.50 per 15, $4.50 per 30; pens 3 or 4, $1.50 per 15, $2.50 per 30; pens 5 or 6, $1 per 15. Address, mentioning Homestead, **L. G. Johnson, Box 4, Steamboat Rock, Ia.**

EGGS $1.00 per setting, $5.00 per 100, from S. C. B. Leghorns, R. C. B. Leghorns, S. C. R. I. Reds, B. P. Rocks, Pekin Ducks. Scored 93 to 97 points. Chicago, New York, Kan. City, St. Paul and Iowa winners grace our yards. Catalog free. Eli F. Hersey, Parkersburg, Ia. Life member A. P. A.

$1 PER 15, $5 per 100 eggs. Barred W. Buff Rocks. R. I. Reds, W. Wydts., B. Langs., Lt. Brahmas buff and white Orps., Leghorns. Toulouse geese, $1.75 per 10; white guineas, $1.50 per 12, bronze and white turkeys, $2 per 7. Monroe Poultry Yards, Monroe, Ia.

EGGS From stock scoring 91 to 94½. Rose Comb Wh. Orpingtons, $1.40 per 15 eggs. R. I. Whites, $1.40 per 15. S. S. Hamburgs, $1.75 per 30. I. R. ducks, $1.75 per 30. Sarah Lowe, Clarksville, Ia.

SKUNK FARMING—More profitable than hogs, cattle or poultry. Requires less space and small capital. Send for information. Laymon Fur Farming Co., Box 14, Spencer, Indiana.

EGGS for hatching from White Feather Poultry Yards. High-scoring W. Wyan. W. H. turkeys. Book orders early. Mrs. C. F. McLochlin, Gray, Ia.

EGGS, B. and W. Langshans, S. E. Buff Orps., Lt. Brahmas, R. C. R. I. Reds, $1.50 per 15; $6 per 100. Mrs. S. E. Newell, R. D. 6, Audubon, Iowa.

EGGS for hatching, S. S. Hamburgs, S.C. Anconas, Prt. Wydts, S.C. Buff Leghorns, I.R. ducks 1t. F. and W. $1 setting after May 15. E. E. Calvert, Shell Rock, Ia.

B. LANGSHANS, I. R. DUCKS High-scoring stock. Eggs, 75c per 25, $4 per 110. Satisfaction guaranteed. B. A. Randell, Mt. Zion, Ia.

S. C. R. I. Red eggs from great laying strain, good color, 15, $1; 50, $3; 100, $5. F. W. I. R. ducks from prize-winning stock, 15, $1.25. J. E. Lewis, Brayton, Ia.

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I'll save you big money on your farm gates. My new catalog quotes such astonishingly low prices on CAN'T-SAG GATES AND GATE STEELS that you simply can't afford to build another clumsy, all wood gate. My FREIGHT PAID PRICES are half what others charge for short-lived steel, wire and gas pipe gates.

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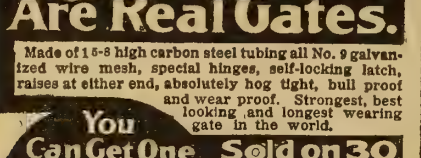
I give 30 days free trial and a signed 5-year guarantee. Send for my big free Gate Catalog at once—see why Can't-Sag Gates outsell and outlast all others. Read what other farmers and stockmen say about them. When you get this book you can either select complete CAN'T-SAG GATES, Ready to hang, any height, any length—painted or unpainted or if you prefer you can order just the GATE STEELS [which includes everything but the boards]. With these you can build your own Gates in 30 minutes and SAVE BIG MONEY.

A. V. Rowe, Pres.

(6) Send for FREE Gate Catalog Today



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Each board double bolted between 4 pairs of ANGLE STEEL uprights and 6 TRIANGULAR TRUSS BRACES. Patent reenforced SELF-LOCKING HINGE. Gate swings easily both ways—always hangs square and plumb. Elevating Attachment [furnished at slight additional cost] permits gates to be raised over deep snow or allows small stock to pass under. Write for Free Catalog and FREIGHT PREPAID OFFER TODAY. Address

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And, at the same time, put in an old reliable Schroeder Upright Driveway Elevator. Save time, save trouble, save expense, and get more for your grain by holding out for highest prices. With a Schroeder Elevator built right into your crib one man handles all the work easily in any position.

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FREE BOOK on request. Tells all you want to know about Grain Dumps and Elevators. Get a copy today.

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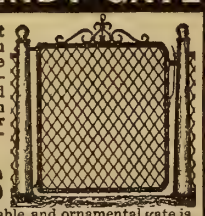
$1 90 FOR THIS DANDY GATE



These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our triple-galvanized, high-carbon steel

Iowa Gates

The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

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Trojan Steel Gates Are Real Gates.

Made of 15-8 high carbon steel tubing all No. 9 galvanized wire mesh, special hinges, self-locking latch, raises at either end, absolutely hog tight, bull proof and wear proof. Strongest, best looking and longest wearing gate in the world.

You Can Get One FREE

Sold on 30 Days Trial. Guaranteed by $10,000 Bond.

You take no chances. We ship the gates. We let you try them, test them, compare them with any other at any price. If they are not the best ship them back at our expense.

Sold Direct from Factory at Factory Prices.

You save middleman's profit. That's why they cost less than others; that's why more Trojan gates are sold than all others. Investigate.

Write for Catalog and Full Particulars of Our Introductory Free Gate Offer.

Our proposition is fair and square. One gate free to one farmer in each county for helping introduce.

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Cheap as Wood We manufacture Lawn and Farm Fence. Sell direct, shipping to users only at manufacturers' prices. WRITE FOR FREE CATALOG.

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Galvanized steel.

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In Cement Floors and FOUNDATIONS Use ROSS IRON Studding SOCKETS

The "100-Year" Post Support

Simply tap sockets down into soft cement. No sills to rot. No toe-nailing to rust. Fits *any* upright. For Cribs, Granaries, Barns, Sheds, Garages, etc. Write today for FREE Booklet. Learn how to make upright supports *everlasting*. Get book—"How to Build Cement Floors and Foundations."

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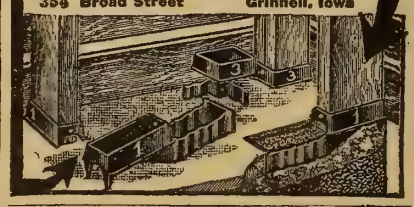

Capewell Horse Nails

LOOK FOR THE CHECKED HEAD

If horse shoes don't stay on you know why—"Capewell" nails are not used. Ask your shoer to use "The Capewell" nail with the *check mark* on the head.

Best nail in the world at a fair price—not the cheapest regardless of quality. Any shoer can afford "The Capewell."

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ORNAMENTAL FENCE

25 Designs—All Steel

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HINTS·SUGGESTIONS·DEVICES

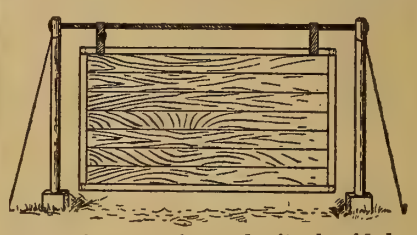
WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

SAWHORSE.

This device is of great convenience to anyone using a wood saw, saving the back and also the knee with which ordinarily the wood must be held in place. The frame, a, is made of two by fours the desired length with a cross rod at b to hold the frame steady. C is an iron hook which is easily bent by any blacksmith, to hold the log in place and is a treadle of wood, shaped downward at end to make standing easy. E represents a cross rod to support treadle. The operator may stand squarely on both feet with one foot on the ground and one on the treadle, or a piece of timber may be placed on one end of treadle and then the operator can stand any place he chooses.

Making a Flood Gate.

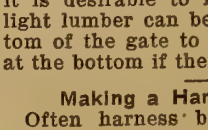
Now that the season of heavy rains is at hand the farmers whose fields are traversed by creeks and ravines will be subjected to the annoyance of having their fences washed out. Flood gates save many fences from being put out of commission, but unless they are properly made and hung they are apt to come to disaster during some violent flood when the streams are running swift and carrying wreckage, tree limbs, etc. The flood gate should be built for strength and should be made long enough to reach out a good distance on each side of the creek or ravine. The timber used in its construction should be heavy—unfinished boards are the best. The frame should be made of two by eights. The other lumber—the boards which go across the frame—should be one inch thick and twelve wide. Use spikes and ten-penny nails. The best way is to bolt the frame pieces together.



After the gate is made it should be hung securely. If there are no trees in line with the fence, or near enough to make their use permissible, poles must be set. A good, heavy pole should be selected. Set it as deep as possible. To be of any service it should be set in concrete. Two poles so set are sufficient to swing a gate. If dirt is stamped around the poles the lapping water will soften it and the pole will soon fall over or be washed out. Brace the poles well with wires which should be attached to the top, then tied to several surrounding trees. If there are no trees the wires can be pegged down. The gate is suspended by iron hasps to a wire cable stretched between the two posts. A dozen strands of heavy telephone wire twisted together makes a good one. When it is desirable to fence against hogs light lumber can be nailed to the bottom of the gate to fill up the opening at the bottom if there should be one.

Making a Harness Hanger.

Often harness becomes broken in places and out of shape because it is not properly hung up in the barn. A harness should be suspended so the strain of the weight is divided evenly. The illustration shows how a practical harness hanger may be constructed. Take a log of the desired length and bore auger holes in it. Then fit stakes into the holes. Put these stakes fairly near together. The hanger can be suspended from the ceiling by nailing boards of the proper length to the ends of the pole, then to the ceiling rafters. It is understood that the pole should be suspended with the harness stakes slanting upwards so the harness will not slip off.



Making a Trellis.

Honeysuckles and other climbing plants require a trellis to climb up and spread over. A serviceable one can be made from a soft pine (or other soft lumber) board. The board can be of any length and width desired. A board six feet long and a foot wide will make a good one for ordinary purposes. First mark the board off as shown in Fig. 1. The marks should be about an inch apart. Now take a rip saw and saw down the marks,

FIG. 1

which should extend about two-thirds of the length of the board. The slats formed by the sawing are spread out and a flexible piece of board is nailed over the end of each to hold them in

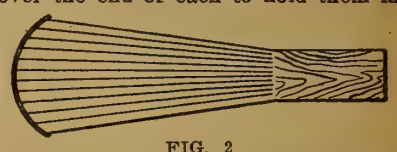


FIG. 2

position. To set the trellis drive a piece of post in the ground, then nail the trellis to it. Fig. 2 shows the completed trellis.

Fight The Bugs With Pure Paris Green—

To wage *successful* war on insect pests, you *must* use Paris Green. It is *positive—quick-acting* and easy to *apply*. *Nothing better.* Go to the *right* dealer and get the *best* Paris Green. Ask for—insist on—

ANSBACHER'S Pure Paris Green

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We've a book on Paris Green that's worth *sending* for and worth *reading*. "QUICK DEATH" is the name. *Your* name will bring it. We'll tell you *where* to get Ansbacher's in your locality, too.

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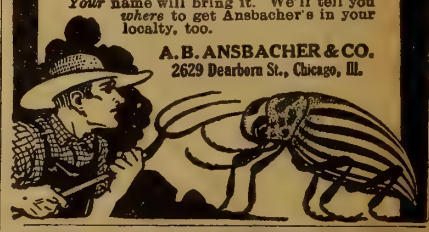
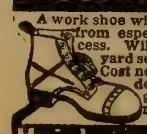


A Non-Rotting Manure Proof Shoe for Farmers



A work shoe with style and perfect fit. Made well from especially tanned leather by special process. Will not rot or crack through from barnyard service. Nothing like it on the market. Cost no more than ordinary shoes. Ask your dealer for them. Each pair absolutely guaranteed by manufacturer to stand manure and barnyard acids.

Huiskamp's Barnyard Shoes Are Guaranteed Farm Shoes

Free Bottle Barnyard Shoe Oil.

If you have never worn Barnyard shoes write us for Free bottle Barnyard non-rotting preparation. Send your dealer's name. Try it on any shoe. It will convince you that Barnyard shoes are what you need.

HUISKAMP BROS. CO.

200 Johnson St. Keokuk, Ia.

BINDER TWINE

FACTORY TO FARM. WANT FARMER AGTS

Write quick. AUGUST POST, Moulton, Ia

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

SELLING UNWHOLESOME FOOD.

A Subscriber, Farnhamville, Iowa.—A bought two hogs from B for the purpose of butchering them. One of the hogs was an original and B knew it, but A did not know it until the hog was killed, and its meat is not good. Can A recover damages from B?

Answer.—In selling personal property the general rule is that where no misrepresentations are made by the seller in respect to the quality or condition of the property, the purchaser buys at his own risk, and cannot recover damages on account of defects or unsoundness. but where animals or articles are sold for food, the law implies a warranty on the part of the buyer that such provisions are wholesome and fit to eat, and the rule of buyers' risk does not apply; hence in the case stated, the butcher can recover damages from B on account of one hog being an original, and the meat unfit for food.

KILLING AN OLD HORSE.

A Subscriber, Stanton, Iowa.—Is it lawful in Iowa for the owner of a horse to kill it where there is nothing the matter with the horse except old age?

Answer.—It is not unlawful provided the killing is not done cruelly. It would probably be best to have an officer of the Humane society do the killing, if it must be done.

TRIMMING HEDGE ALONG ROAD.

A Subscriber, Bedford, Iowa.—(1) What is the law in Iowa about cutting back hedge fences along the public highway? (2) Where a hedge fence along the highway is not used as a windbreak can the township trustees compel the owner of the hedge to cut it back?

Answer.—(1) The law provides that owners of osage orange, willow or other hedge fence along the public road, unless the same shall be used as a windbreak for orchards or feed lots, shall keep the same trimmed by cutting back within five feet of the ground, at least once in every year, when so ordered by the trustees of the township, and burn or remove the trimmings so cut, from the road. (2) If such owner fails to comply with the order of the trustees, he is notified by the road supervisor (superintendent) to do so, and if he fails for sixty days, the cutting back will be done at owner's expense and added to his taxes.

SALE OF LAND—TAXES.

A Subscriber, Otley, Iowa.—In January, 1912, A was assessed for money and in March following he used the money to buy a farm from B which was assessed to B. A was given possession of the farm at date of sale. Nothing was said about the payment of taxes assessed on the farm in January. (1) Who is liable for said taxes on the farm? (2) In case A is liable for the tax, must he also pay tax assessed against the money paid for the land?

Answer.—(1) Section 1400 of the code of Iowa provides that taxes on real estate shall attach as a lien thereon as against a purchase on and after the thirty-first day of December in each year. This means that if land is sold before that date, the purchaser must pay the tax for the year ending that day, but if sold after that day, the seller must pay them, hence in your case A must pay the tax. (2) A will have to pay the taxes assessed on money he had in January, 1912.

LAND ADJOINING TOWN LOTS—FENCES.

A Dallas County Farmer, Iowa.—A owns land adjoining an incorporated town and uses said land for stock purposes. Where the town lots join A's land who is required by law to build the partition fence between the lots and the land and what kind of a fence must it be?

Answer.—The law provides that the respective owners of adjoining tracts of land, except timber land not used otherwise than for the timber thereon, from which each shall derive any revenue or benefit, shall be compelled to erect and maintain partition fences, or contribute thereto, and keep the same in good repair throughout the year. We think this law applies to a case where farming land adjoins town lots, if the lots are otherwise enclosed by the owners, and used for any purpose from which such owners derive revenue or benefit. There is a decision in Pennsylvania, viz., Loeb vs. Nissley, 2 Legal Chronicle 149, sustaining this doctrine, but the point has not been decided by the supreme court of Iowa. Such fence would be any kind of a fence prescribed by the Iowa law, as a lawful fence.

Improve the sanitary conditions in and about your home. Safeguard the health of your family and lessen the labor of household duties by installing a

Fairbanks-Morse Pneumatic Tank System

Pure water under pressure always on tap in kitchen, bathroom, laundry, etc. Installation cost reasonable; operating cost but a trifle. Outfit shown is easily set up in basement of ordinary residence and can be operated by hand, engine or motor. From our complete line you can select an outfit especially adapted to your needs.

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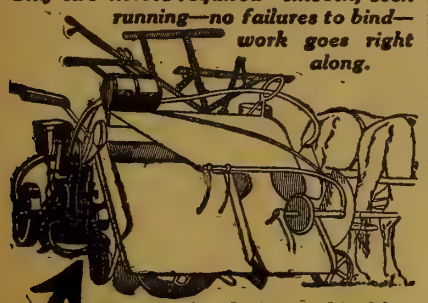
Run Your Binder with a Cushman Engine

Only two horses required—smooth, even running—no failures to bind—work goes right along.



Horses Simply Draw Machine

The engine does all the work of operating. 4 h.p. Weight under 200 lbs. Speeds to 5 h. p. easily. Automatic throttle governor measures out fuel according to work. The original binder engine and more in use than all others combined. Detach and use for all-purpose farm power. Easy to handle, fits in anywhere. We also build 6-8 and 20 h. p. engines with same high efficiency—engines for all heavy duty. Write for free catalogue.

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Farm Cushman
The Original Binder Engine

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We buy your wool out and out, charging you no commission or drayage, and pay cash promptly. Sell direct to us. We grade wool honestly and make you an offer which you can accept or refuse. We'll hold your wool separate if you ask us or until you say our valuation is satisfactory. If it is not, we'll ship it back, paying freight both ways, or we will store it for you free of charge. That's fair, isn't it? Send for our Special Wool Price List at once. We carry a full line of wool bags and twine—can furnish them to you at wholesale prices.

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Drink **Coca-Cola**

A welcome addition to any party—any time—any place.

Sparkling with life and wholesomeness.

Delicious
Refreshing
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Demand the Genuine—Refuse Substitutes.

At Soda Fountains or Carbonated in Bottles.

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THE COCA-COLA COMPANY, ATLANTA, GA.

Whenever you see an Arrow think of Coca-Cola.

There's Only One Safe Way to Buy a Buggy

Here are a few of the things to look out for

First—See your buggy before you buy. There's a mighty big difference in buggies.

Second—be sure it is made by a manufacturer who has a *reputation for making first-class buggies.*

Third—Buy of a dealer you know.

Fourth—Don't buy an Eastern-made buggy. They are not built to stand the strains of our western roads.

Fifth—Don't buy a cheap-priced buggy. It will look shabby in a short time, cause heavy repair expense and go to pieces quickly. A really *first-class* buggy—the *Kratzer*—costs only a little bit more, looks better, is much easier riding, and stands the wear and tear because it is built *in* the West to suit Western conditions. Best—and cheapest in the end.

Kratzer Quality Carriages
Are sold by reliable dealers

You get the most in buggy beauty and endurance in a Kratzer. All wool broadcloth or genuine leather backs and cushions, springs of the finest tempered Cambria steel, tires put on "hot-set" by hand, only the best selected seasoned hickory, drop forged iron reinforcement at every point of strain, the famous Wilcox all-steel fifth wheel, every bolt, nut, stick and rod made to last for years. This is the kind of buggy you want.

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We have some very interesting facts on buggies and carriages which you should get at once. Just mail the coupon and you will receive this information by return mail. Don't put it off. Send the coupon *now.*

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No. 52 "Aeroplane" Buggy

FREE catalog shows 50 other styles

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Send me your free catalog and details about Kratzer Quality Buggies.

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DAIRY

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To the Editor of The Homestead:

A clipping from your dairy department entitled, "Condenseries or Creameries; Which?" has been handed to the writer for reply. The condenseries pay a higher price for milk than any other buyers of milk can afford to pay, and are a very valuable asset to any rural community. A condensery requires a flow of milk equal to ten or fifteen creameries and necessitates employing considerable local help, both men and women, through the entire year. The ordinary condensery will disburse from $10,000 to $40,000 a month for milk and labor which is handled by the local bank and is spent at home. A condensery not only is good for the local merchant, but benefits the entire surrounding community because it demands good roads and it stimulates the dairyman to dispose of his low-grade robber cows and replace them with real profit-making herds. It is a great factor in raising the plane of living in any community. So much for the general benefits of a condensery—what about the prices they pay. Some condenseries pay a flat rate per hundred. The condensing company with which the writer is affiliated pays on a butter-fat basis which is far more just and fair to both the dairymen and condensery. This condensery being an independent one with no connection with any of the so-called "trusts" will pay to their dairy patrons for April, $1.55, May, $1.45, June, $1.35, July, $1.35, August, $1.45, September, $1.55, an average of $1.45 per hundred pounds, or an average of 41 3-7 cents a pound for butter fat during the grass months which you all know is the lowest price of the year.

This same milk containing 3.5 per cent butter fat with a 20 per cent overrun will make 4.2 pounds of butter. Below I am giving you the prices of butter for the six grass months taken from the year book of the department of agriculture of 1911, showing what the farmer received for his butter in Wisconsin and Iowa:

	Wisconsin	Iowa
April	24 cents	21 cents
May	22 "	20 "
June	21 "	19 "
July	22 "	19 "
August	23 "	22 "
September	25 "	23 "
Average	23	20 2-3

This would make the Iowa milk, if taken to the creamery, worth 86 cents a hundred pounds (4.2×.20 2-3=.86) and the same identical milk, if taken to our condensing company, would bring (3.5×.41 3-7=1.45) $1.45 a hundred pounds, a difference of 59 cents a hundred pounds in favor of our condensery. But you say that I have made no allowance for the skim milk. The value of skim milk, we are told in the dairy text-books, depends upon the value of shelled corn, and is estimated to be one-half the price of shelled corn per bushel per hundred pounds. The price of shelled corn at this writing is 54 to 54 3-4 cents which, in the class room, would give skim milk a value of 27 cents (54÷2=27), but this, in the writer's opinion, is merely, a paper valuation featured by dairy authorities for the class room. My personal experience in creamery and condensery work in five different states leads me to believe that this is an inflated value. As a matter of fact, many dairymen bringing milk to a whole-milk creamery, do not take the skim milk back to the farm for fear of transmitting tuberculosis to their dairy herds and hogs. But for the sake of argument I will concede that skim milk has a value of 27 cents per hundred pounds. This, when added to the creamery price, of 86 cents per hundred would make 3.5 per cent milk worth $1,13 per hundred pounds (.86+.27=1.13) and if this milk were purchased by our condensing company it would be worth $1.45 a hundred pounds, a difference of 32 cents in favor of the condensery on each hundred pounds of milk. If the condensery were receiving 75,000 pounds of milk it would mean $240.00 (750×.32=240) more each day to the farmer than would the same kind and quantity of milk taken to a creamery.

I believe that the figures given will convince the most skeptical dairyman why the condenseries grow in spite of all the knocking a creamery can do to prevent their introduction in their community.

Wisconsin S. R. Barnett.

THE VALUE OF THE BABCOCK TEST.

To the Editor of The Homestead:

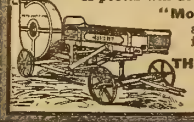
To be considered of so little value as to be publicly sold as a four year old for $14, to later barely escape being sent to the butcher's block and then to be given an opportunity to prove her worth as an economical producer of milk and butter fat, has been the

"Ohio" 1913 Model
The Improved Logical
Silo Filler

"Ohio" improvements for 1913 are radical—eclipse all previous efforts.
Don't close a deal for *any* Cutter and take chances with unknown makes until you see what the "Ohio" offers.
59 years' experience—*absolutely dependable quality.*

Famous Patented Direct Drive
is secret of "Ohio" superiority—the *only* machine that is driven, cuts and elevates *direct* from main shaft. Simple, compact—low-speed fan—*non-explosive*—*non-clogging* on any cut. Cuts *clean* on all crops—knives can't spring.

One Lever Controls All
Entire feed reverses by *wood friction* at finger pressure—no strain—not a gear tooth changes mesh. All gears perfectly housed. Famous "Bull-Dog" grip self-feed. Enormous *half-inch cut* tonnage, 50 to 250 tons a day—6 to 15 h. p. 20-year durability. Used by Experiment Stations everywhere. Guaranteed. Many big new features this year.
Write for free "Ohio" catalog today. A postal will do.



"Modern Silage Methods" a 264-page book mailed for 10c, coin or stamps.
THE SILVER MFG. CO.
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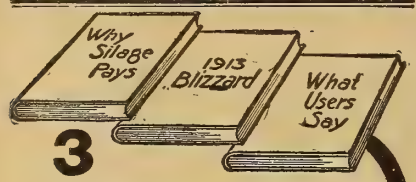
Salem, Ohio



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BLIZZARD
Ensilage Cutter
A 40-year success. Big capacity, small power. Elevates any height. Simplest, safest. Steady worker. Self-feed table. Almost runs itself. Knives adjustable while cutter is running. Guaranteed. (3) "What Users Say"—a book containing scores of letters from users of the Blizzard.
Write for these books today
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1472 Tuscarawas St., Canton, O.

Calves Without Milk
Cost only half as much as the milk raised calves. Increase your profits by using
Blatchford's Calf Meal

The perfect milk substitute—the best since 1800.
Write today for free book, "How to Raise Calves." Your name and address on a postal is enough.
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GALLOWAY FARMS HOLSTEIN-AYRSHIRE SALE
WILL BE HELD ON GALLOWAY FARMS,
WATERLOO, IOWA, THURSDAY, JUNE 19, 1913
Holstein-Friesian cows, heifers and bulls of popular strains. Ayrshire females of imported blood. All of extra individual merit. Big illustrated catalog ready.
WILLIAM GALLOWAY - WATERLOO, IOWA

HOLSTEIN CATTLE.

Pure-bred Registered
HOLSTEIN CATTLE
29,591.4 pounds of milk a year is a new world's record recently made by a Massachusetts Holstein. Six days after the test ended she passed the 30,000 pound mark.
She finished her test weighing practically the same as when she started, a little over 1,500 pounds, and gave this large flow of milk apparently very easily, without being forced in feeding.
To be money-makers your cows must be tireless workers with the vitality characteristic of the Holstein breed.
Send for Free, Illustrated, Descriptive Booklets.
HOLSTEIN-FRIESIAN ASSN., F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

Holstein-Friesian Bulls
FOR SALE—One thirteen-months-old bull by Dutchland Hengerveld Winona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address
A. J. Podendorf, Logan, Iowa.

"RESTHAVEN HERD" OF HOLSTEINS
THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

Registered Holstein Bulls
CHEAP to close out; five ready for service and seven 8 to 12 months old, sired by king of the butter king, King Segis Hengerveld, and the $10,000 milk and butter king. Prices $85 to $125. Address
Henry Glissman, Station B, Omaha, Neb.

HOLSTEIN BULL AND COWS FOR SALE.
Come and see them or write.
THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

HOLSTEIN COWS, HEIFERS, BULLS
250 head in herd. Also some very choice young bull calves. Write us, let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from eight to 12,000 lbs. milk per year. All stock registered; no grades.
Woodlawn Farm - Sterling, Illinois.

HOLSTEIN COWS
WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

JERSEY CATTLE.

Butter Profits
You ought to get more butter profits. Jersey Cattle mean more butter profits, because they yield more butter fat at less net cost of keep than any other breed.
THE JERSEY
excels in beauty of dairy type. She is a persistent milker. Jerseys are easily acclimated. They live long and keep healthy. They mean *steady* butter profits. Write now for Jersey facts. Free for the asking.
AMERICAN JERSEY CATTLE CLUB
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WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Redhead's Jersey Bulls
I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

GUERNSEY CATTLE.

GUERNSEYS
As you like them
Choicely Bred
Cows - Heifers - Bulls
All tuberculin tested and just as represented
It will pay you to ask about them
WALTER-WALWORTH-WIS

WE NOW OFFER 30 HEAD
of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address
WILCOX & STUBBS CO., DES MOINES, IOWA

Only $2 Down
One Year to Pay!
$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. **Guaranteed a lifetime.** Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half. (12)
ALBAUGH-DOVER CO.
2202 Marshall Blvd. CHICAGO
No. 5½

Beauty May 5th, Pride's Lady 2d and Happy Pride, three Queen of Beauty cows to be sold in the sale of Scotch Short-horns to be held by Owens Bros., Homestead, Iowa, June 12th. See the advertisement on page 28.

LOOK!

BEATRICE Separators Can Be Cleaned In 2 Minutes

Not Only That:

Our patented device leaves the machine spotless and perfectly sanitary. Clean as a new pin. *Look at these prices!* 550 to 600 pounds capacity—$55; 750 to 800 pounds capacity—$65; 950 to 1000 pounds capacity—$75. Why pay more? There's no better machine. For the first time in separator history you are offered an efficient, durable machine at a reasonable price. You pay $25 to $40 more for other standard makes with smaller capacity.

Then, on close, clean skimming the Beatrice beats them all. It will pay for itself in cream saved in a single year. Ask your dealer. Or write us for free booklets and full information.

BEATRICE CREAMERY COMPANY
Chicago, Des Moines, Ia., Lincoln, Neb., Dubuque, Ia.

Save $25 to $40

Get All the Cream

This Speed Governor will save $3.00 worth of cream a year, from each of your cows by operating your separator at a steady, uniform speed. Automatically starts separator slowly and gradually increases it. Any speed obtained while machinery is in motion, by turning hand wheel. For fanning mills, churns, washing machines, etc. Ask your dealer or write

CEDAR RAPIDS FOUNDRY AND MACHINE CO.
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GLAZED TILE From the KILN to Your

Home Town; a Silo hooped like a water tank; Kalamazoo Galvanized Door Frame, Clear Cedar Doors. Never require paint nor insurance; is fire and frost proof. Will be sold so that it earns its cost before the **Buyer Lets Go of His Money**

Cement & Tile Silo Co.
KALAMAZOO, MICHIGAN

Shoo-Fly THE ANIMALS' FRIEND

Keeps flies and other insect pests off of animals—in barn or pasture—longer than any imitation. Used and endorsed since 1885 by leading dairymen and farmers.

$1 WORTH SAVES $20.00 in milk and flesh on each cow in a single season. Heals sores, stops itching and prevents infection. Nothing better for galls. Kills lice and mites in poultry houses.

SEND $1, If your dealer can't supply you. We'll send enough Shoo-Fly to protect 200 cows, also our 3-tube gravity sprayer without extra charge. Money back if not satisfactory. Name Express Office. Booklet FREE. Special terms to agents.

Shoo-Fly Mfg. Co., Dept. 40 1310 N. 10th St., Phila.

Editor knows from experience that Shoo-Fly is O. K.

CLIMAX Ensilage Cutter

Send name on postal. Get all Climax facts before you buy. Simplest, safest, most dependable and biggest capacity Blower Ensilage Cutters made. A style and size for you at a price that's *right*. Catalog explains everything. Send postal *today*.

BOOK FREE

Send Name Now

Warsaw-Wilkinson Co., 85 Highland Avenue, Warsaw, N. Y.

life history of Bess, a "native" or "common" Waukesha county cow. She spent her calf and heiferhood days in the herd of a farmer who relied solely upon physical appearances to determine the value of his dairy animals.

Fortunately, Bess fell into the hands of Frank G. Swoboda, superintendent of the Wisconsin Home Farm School at Dousman, who believes in giving everything and everybody a chance. Before discarding cows he believes in first finding out their milk and butter fat producing capabilities.

Accordingly, Bess was given a place in the barn and fed liberally of well-chosen feeds. Her milk was weighed twice daily and a monthly test was made to determine its butter fat content. To the complete surprise of even the superintendent, in a single year Bess produced 7,520 pounds of milk, which, because of its high butter fat content, yielded 414.9 pounds of butter. Needless to say, she was saved for present and future usefulness.

Mr. Swoboda follows the rule of refusing to discard a "native" or pure bred, which in a year will produce in excess of 300 pounds of butter. By a careful weeding-out process, and by continuing the use of high-class registered sires, his ambition to breed up a herd of great milk and butter producers has been partially realized. Two of the cows in the school herd have produced considerably over 10,000 pounds of butter in a year and several others promise to do equally well when they settle down to their regular pace. While developing a herd of most excellent producers, Superintendent Swoboda and his corps of excellent workers have also been transforming street boys into capable and independent farmers.

THE HIGHER UP WE GO.

To the Editor of The Homestead:

Once a man gets a taste of better things in dairying, he is not apt to come to a place where he will ever want to stop. There is always an inspiration to keep climbing.

Our first cows were very common stock. When we bought them, we had little ambition to do much more than to make a living on the farm. That was quite as much as the neighbors seemed to care about doing. We were just from town, tired of the office and longing for the freedom of the country. If we could only have all the good milk, butter, eggs, fruit and vegetables we wanted, and a chance to rest and breathe, that would be all we would ask.

But somehow a bee got into my bonnet and it did a lot of buzzing. What was the use of simply making a living? That was not much of an ambition. There must be something better in life than that. And we set out about finding it. The old, average cows of assorted sizes and colors no longer satisfied us. If there were anything better, we would like to know it.

So we began; and the line of demarcation grew more and more clearly defined from that day on. The better the cow we had, the better one we wanted. The higher up the dairy ladder we went, the more clearly we could see all around us, and the farther up we wanted to go. And we are trying to get up still higher, although a quarter of a century has gone by since we started.

Think what the better cow does for a man. She gives him more milk, for one thing. How we did enjoy taking in the milk of the better cow and showing it to the good wife! "This is what the new cow gave this morning. Isn't it fine?" And the steelyards were brought out to weigh the mess. That is one thing ambition does. It gets out the steelyards and measures things by their right, as well as by their prospective, value. No longer satisfied to guess at these things, we are on our metal to know just what every cow is doing. If we are putting time and money into any cow that does not think enough of us to give back as good as she is given, then it is time to make a change.

More yet. The milk from the better cow is better milk than the old cows gave. How do we know that? Why, we have had the new cow's milk tested. It looked to us as if there were a thicker cream on the pan than we had seen there before: the cream made rather more butter too: but how much better was the milk? That was what we must know. So we took a sample of old Brindle's milk and one from the new cow and had them tested. My! what a difference! Old Brindle's milk was pretty good, too. Why is it that a brindle cow does give rather better milk than the average cow? Or is that simply my notion? I have thought it to be true at any rate in our own herd.

But the test shows just how much butter fat there is in two samples, and throws old Brindle into the shade altogether; no longer common cows. Now we are ready to do anything reasonable to get the best possible cows.

Subscriber.

TRADE in your old separator on account of a new DE LAVAL

An up-to-date De Laval Separator will, on an average, save its cost every year over any other separator.

In addition to the actual saving in more and better cream there is also the saving in time of separation and cleaning, in easier running, greater durability and fewer repairs.

Because of these savings more than 40,000 users of inferior and worn-out separators of various makes last year took advantage of the De Laval exchange allowance and traded in their machines on account of De Lavals.

USERS OF OLD DE LAVALS, on account of the many improvements in the modern De Laval over machines sold 10 to 25 years ago, including closer skimming, easier running, better oiling, etc., will also find it to their advantage to exchange their old De Laval for an up-to-date De Laval.

SEE THE NEAREST DE LAVAL AGENT. He will tell you how much he can allow on your old machine, whether a De Laval or some other make, toward the purchase of a new De Laval. If you don't know a De Laval agent, write to the nearest De Laval office giving make, number and size of your present machine, and full information will be sent you.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

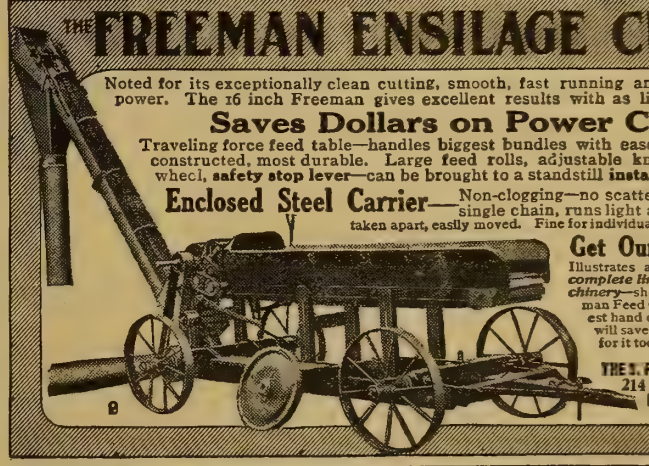
THE FREEMAN ENSILAGE CUTTER

Noted for its exceptionally clean cutting, smooth, fast running and its saving of power. The 16 inch Freeman gives excellent results with as little as 4 H. P.

Saves Dollars on Power Cost

Traveling force feed table—handles biggest bundles with ease. Most simply constructed, most durable. Large feed rolls, adjustable knives, **safety** fly wheel, **safety stop lever**—can be brought to a standstill **instantly.**

Enclosed Steel Carrier—Non-clogging—no scattering, no waste—single chain, runs light and true. Easily taken apart, easily moved. Fine for individual silos or job work.



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CHAMPION SILOS

Are built from the ground up. Are absolutely modern, have continuous door front, steel hoops and anchors and other important improvements.

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OWN YOUR OWN FARM

WE own some of the best lands and farms in the famous Rosebud country of South Dakota. We will rent or we will sell any of them on small cash payments to good farmers who have the teams, implements and stock to start a farm properly. Our proposition will interest you. Address

JACKSON BROS.
Dallas - South Dakota

CHOICE FARM FOR SALE

160 ACRES of good corn land 5½ miles southeast of Spring Valley, Fillmore county, Minnesota, 9 miles north of the Iowa line. Surface slightly rolling. Can all be plowed. Soil, rich loam underlaid with limestone and yellow clay. Fenced and cross-fenced. About $4,000.00 worth of buildings consisting of a modern 7-room house, two stories with two porches, main part 28x28 with addition 12x14, dry cellar under whole main part, good cistern, hot and cold water in bath room and kitchen. Barn 60x60 fited up for horses and cattle. Large implement house, double doors. Good granary and cornerib. Large, new chicken house. Buildings all in good condition. Good drilled well. Windmill and milk house. About 20 acres of timber and pasture near the buildings affording good shelter, balance all under the plow. Farm located on the main road. Telephone line and rural mail box at the door. Square quarter, road on two sides. Price $95 per acre if sold before June 15th. Terms, $1,000 down when contract is made, enough more payable March 1, 1914, to make one-half the purchase money, balance on or before 5 years at 6%. Possession given March 1, 1914. No trades. Address owner, Everett Jones, Spring Valley, Fillmore Co., Minn.

SOUTHWEST MINNESOTA

FINE spring bargain for thirty days only. 160 acres, well improved; under a high state of cultivation; black soil; every acre farmed; good neighborhood. Price $80 for quick sale. Will be worth $100 this fall. Only twenty-four miles from the Iowa line. Strictly in the Corn and Clover Belt. Corn yielded one hundred bushels per acre last year in this county. No trade. Write for particulars and also for bargains in other farms. Have large list. Address **DRAWER C, SLAYTON, MINN.**

Timothy and Clover Lands

IN southern central Wisconsin, new 20,000 acre county drainage district; open meadow lands, no stumps; all within four miles of the station; to be divided into 80-acre dairy and truck farms. Only sixty-five miles from Iowa, six hours from Chicago. Ten years' time given to the actual settler. Write **The Peddle Land Company, Inc., Owners, Cedar Rapids - - - - Iowa.**

One of Iowa's Best

260 ACRES, Webster county, Iowa, 10 miles from Fort Dodge, population, 20,000; ½ mile from town of Clare, population about 500 on M. & St. L. R. R. 3½ miles from German Lutheran church. Good improvements. All under cultivation. One of the best farms in Iowa. Price $43,000. Must be sold before August 1st.
B. B. BURNQUIST, Attorney at Law, Fort Dodge, - - - - - - - - - Iowa.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

CENTRAL MISSOURI FARMS Write for descriptive price list of improved farms that will prove profitable and satisfactory as homes and investments. HAMILTON & CRENSHAW, Box 3, Fulton, Mo.

WOULD YOU BACK YOUR OWN JUDGMENT when you saw a farm snap? If so come and let us show you land in the best soil of northwest Iowa and southern Minnesota. Write for particulars. **Seaton & Brown, Spencer, Clay County, Ia.**

Eastern Iowa Corn Farms

WE have the real bargains. Make us prove it. Our list will surprise you. Write for it TODAY. **Hunter Land Company, Cedar Rapids, Iowa.**

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. Address **SEWELL LAND CO., Garnett, Kan.**

HIGHLY IMPROVED 320-A. farm. Hyde Co., S. Dak. Also two unimproved quarters. Will trade any or all for registered Shire or Clyde Mare. **J. N. KING, Breckenridge, Minn.**

CALIFORNIA LAND Send for catalog. Properties in all counties. Valuable, reliable information. C. M. Wooster Co., Phelan Bldg., San Francisco

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

SHRUBS FOR ALL THE YEAR.

If they are properly chosen a small number of hardy shrubs will present a glorious floral procession lasting all summer. The secret is in getting the kinds which flower in succession rather than at the same time. No growing thing except grass helps to dress up a place so effectually as well planted shrubbery. It might be wise to emphasize the words "well planted," which means massed in the corners or scattered through the border, but not distributed like shoe buttons all over the lawn.

The floral parade opens in April with a fine burst of color when Forsythia comes into bloom. Most people know this splendid yellow flower, which appears long before the trees are in leaf. The weeping form, Forsythia suspensa, is not common, but is delightful with its long, pendulous branches.

Next comes the lilac, flower of sentiment and romance. Of late years many new and handsome lilacs have been introduced, by means of which it is possible to make the season of bloom much longer than it used to be. These new sorts are commonly grafted, however, and all the shoots which spring up from the roots must be cut off. Other good shrubs also bloom in May—some of the best spireas, the common snowball, and the bush honeysuckle, which is prized for its pink and fragrant flowers and for the bright, orange colored fruit it bears in the fall.

In June the beautiful weigelia blooms. There are two forms, one with green and the other with variegated leaves. The smoke bush, with its curious, misty, smoke colored flowers, is another and interesting June shrub; likewise mock orange and the rhododendron.

The sweet pepper bush, with its spikes of creamy white, fragrant flowers comes in July and lasts through into August. The white-leaved spirea is another midsummer shrub.

In August we have, among many, the shrub which bears the name of hydrangea paniculata grandiflora. Perhaps this is the most popular of all lawn shrubs. Certainly it is one of the most obliging, for it does not object to being cut and slashed in any way to suit the taste of the owner. If grown as a single specimen it is allowed to assume its natural wide-spreading, bushy form, but when grown in beds, should be cut back almost to a stub each season. Rose of Sharon in several varieties is a splendid August and September shrub.

Probably the most common cause of failure to secure a satisfactory number of blossoms from the flowering shrubs is pruning and trimming at the wrong time. Many a garden maker goes over all his shrubs with a knife conscientiously each spring and then wonders why they fail to blossom. The reason in many instances is that he has cut off the buds. All the shrubs which flower in spring and early summer prepare for blossoming the season before. It follows, then, that the time to trim them is immediately after they have blossomed.

The late, flowering shrubs, on the other hand, form their buds the season that they bloom. They are to be pruned in winter or early spring. In the latter list are Rose of Sharon, hydrangea paniculata, the bush roses and the later spireas. The majority of the common shrubs should have the shears applied immediately after flowering, if at all. And, after all, trimming should not ordinarily be severe. The average man fairly runs amuck when turned loose with a knife in a garden. The real purpose should be to cut out the old and dead wood, getting the blade as close to the bottom of the bush as possible, and to keep the new growth comfortably within bounds. More than that means cutting merely for the sake of cutting.—[Kansas City Star.

The English house of commons voices public sentiment with reference to one class of horses when it urges that means be taken to encourage the production of light draft horses suitable for army service.

Ireland has now sixty-five cow-testing associations, with a membership of 677.

Families

MANY of them have located in new sections of the country and are making money. Here is the opportunity for you to locate. We have information regarding thousands of acres of nonirrigated land, irrigated land, timber land, fruit land, etc., along the Union Pacific System Lines. Information free for the asking. Write today to

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Colonization and Industrial Agent, Union Pacific Railroad Co., Room 118, Union Pacific Building,
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LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

WANTED Good tenants for good farms well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. **The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.**

FOR SALE—Well cultivated 320-a. farm 3 miles Crookston, Minn. Good Bldgs. Mrs. A. A. Bristol, 518 Clancy Ave., Grand Rapids, Mich.

Regal

Success

THE truly remarkable growth of the Regal Motor Car Company into one of the largest manufacturers of automobiles in the world has been the natural result of building motor cars that not only sustain their good qualities in the service of thousands of owners, but in price comparison are not excelled in value by any other automobiles now upon the market.

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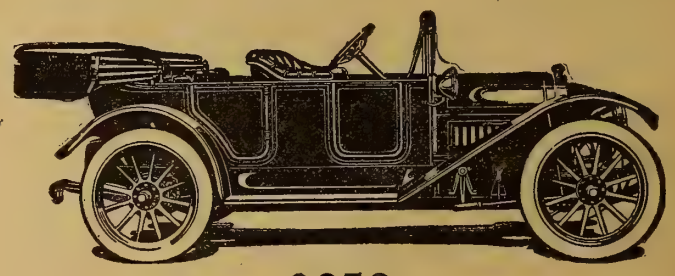

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Regal Model "T" Underslung Touring Car

(46)

EARLY SEED CORN

Hand selected, graded and tested, and ready for immediate shipment.

Will produce a crop if planted by June 15.

Pride of the North (90 days)	1 bu. $2.50,	10 bu.	$22.50
Iowa Gold Mine (95 days)	1 bu. $2.50,	10 bu.	$22.50
Farmers Reliance (95 days)	1 bu. $2.50,	10 bu.	$22.50
Early Yellow Dent (95 days)	1 bu. $2.25,	10 bu.	$20.00
Imp. Yellow Flint (90 days)	1 bu. $2.50,	10 bu.	$22.50
Sanford's White Flint (90 days)	1 bu. $2.50,	10 bu.	$22.50
Evergreen Sweet Fodder	1 bu. $2.25,	10 bu.	$20.00

Forage Crops Rape, Cane, Millet, Alfalfa, Cow Peas, Soy Beans, etc.

German Millet (Shield grade)	1 bu. $1.80,	5 bu.	$ 7.50
German Millet (Standard grade)	1 bu. $1.35,	5 bu.	$ 6.25
Hungarian (Choice grade)	1 bu. $1.70,	5 bu.	$ 8.00
New Era Cow Peas	1 bu. $3.25,	5 bu.	$15.50
Yellow Soy Beans	1 bu. $3.25,	5 bu.	$15.50
Alfalfa (Shield grade)	1 bu. $11.75,	5 bu.	$58.00
Alfalfa (Standard grade)	1 bu. $9.00,	5 bu.	$44.00
Dwarf Essex Rape		100 lbs.	$8.00
Amber Cane (Shield grade)	100 lbs. $3,	1000 lbs.	$27.50
Amber Cane for Fodder,	100 lbs. $2.50,	1000 lbs.	$22.50

Bags free and on Cars at Des Moines.
Iowa Seed Co., Dept. D-1., Des Moines, Ia.

COW-PEAS

AT VERY LOW PRICES
MILLET, CANE, SOY BEANS AND ALL FIELD SEEDS Send for descriptive booklet.
SHULTZ SEED CO., Olney, Ill.

ALFALFA, $6; SWEET CLOVER, $11; cane, millet, timothy, $1.50. Pigs $11. Cholera serum, 2 cents. Farms for sale and rent on crop payments. John Mulhall, Sioux City, Ia.

ENJOY A VACATION IN THE BLACK HILLS

The wonderful Black Hills of South Dakota afford an ideal locality for rest and recuperation.

Hunting, fishing, horseback riding over wooded mountain trails, bathing in the medicinal waters of the hot springs, are all to be enjoyed in a glorious climate and amid splendid scenery.

Reduced fares June 1st to September 30th. Return limit October 31st. Excellent train service. Favorable stop-overs. Choice of routes. Printed matter and full information on application to ticket agents, Chicago and North Western Ry. —Adv.

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STANDARDIZED.
EASY AND SAFE TO USE
INEXPENSIVE

KILLS LICE
ON ALL LIVE STOCK

DISINFECTS.
CLEANSES.
PURIFIES.

It has so many uses that it is a necessity on every farm.

CURES MANGE, SCAB, RINGWORM, SCRATCHES

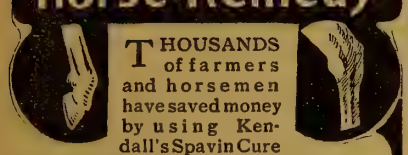
Destroys All Disease Germs

DRIVES AWAY FLIES

Write for Free Booklets

PARKE, DAVIS & CO.
DEPARTMENT OF ANIMAL INDUSTRY
DETROIT, - - MICHIGAN

Kendall's Spavin Cure
The Old Reliable Horse Remedy



THOUSANDS of farmers and horsemen have saved money by using Kendall's Spavin Cure for Spavins, Curb, Ringbone, Splint, Bony Growths and Lameness from many other causes. These men know that Kendall's is a money saver and a horse saver. We can prove it by thousands of

Grateful Letters From Users

Read the letter of Dr. MacLagger, Parish, N.Y. We have hundreds of other letters to prove everything we say about Kendall's Spavin Cure. Let us send you some other letters. But in the meantime get a bottle from your druggist. Tear this advertisement out *now* to remind you to get Kendall's Spavin Cure. 15

Price $1.00 per bottle or 6 bottles for $5.00. Get our valuable book "Treatise on the Horse"—Free at your druggist or write to us.

Dr. J. E. MacLagger, Parish, N. Y. writes: In justice to your valuable medicine "Kendall's Spavin Cure," I wish to say in my practice of veterinary science I have always found it an efficient and safe remedy.

DR. B. J. KENDALL COMPANY
Enosburg Falls, Vermont, U.S.A.

Quinn's Ointment

for curbs, splints, spavin, ringbone, wind-puffs, thoroughpin, swelling of the throat and glands, all bunches, enlargements on flesh, cuts, bruises, scratches, lameness, etc. Has been *proved* as

The SURE Horse Cure

Equally valuable for lump jaw and all cattle blemishes. Is safe—humane—certain—*guaranteed*. If it doesn't work to suit you, you get your money back. Leading horsemen say it's the one great remedy. Save your horse! Run no risks! Use the *old reliable, safe* remedy. At your druggists, or sent direct anywhere for $1.00—prepaid. *Write* for Free Booklet.

W. B. EDDY & CO., Dept. H Albany, N. Y.

E. Z. Hog-Catcher

Catches any size hog with a pull of the lever and locks. A push on lever opens for largest hog to walk out freely. No Hog-Raiser should be without this cheap, simple device. Every purchaser highly pleased. Free circular.

BAILEY & PHILLIPS,
DELAVAN, ILLINOIS

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

PARALYSIS.

Have several sows with pigs that seem weak in their hips. They get down and cannot get up behind, and lose in flesh very fast. I have fed corn, oats and slop composed of ground corn, oats and wheat bran. They are out on grass now. I have a new hog house with cement floor well bedded with straw. Am just commencing to wean the pigs now. I noticed a description in a medical almanac which fitted this case pretty well, called it hip-shot.

There is no such disease as "hip-shot," and almanacs such as you mention should not be trusted, when standard books may be bought and studied. The paralysis described comes from pampering sows from birth on, by feeding too much corn and other rich feed and restricting exercise. Growing pigs should have mixed rations and run out all of the time, to encourage full development of bone and muscle. Corn should form but a small part of the ration for growing pigs and pregnant or nursing sows. Keep it for the fattening hogs. Feed sows plenty of alfalfa hay and roots during winter and make them take plenty of exercise every day; then they will have little, if any, trouble at farrowing time.

INDIGESTION.

(1) About March 20th I lost a calf about seven months old. The calves had been running on stock pasture and grass with plenty of water and salt, and some grain. It showed no signs of sickness, but a few minutes before it died it was lying down with other calves and suddenly it jumped up, ran around in a circle, lay down and died in a few minutes. I opened it found a dry, hard wad about the size of a gallon bucket in the small stomach. In about a week I noticed another calf sick, frothing at the mouth and gritting its teeth. I called a local veterinarian and he said it had every symptom of blackleg. We gave it a large dose of salts and vaccinated all the calves. He said he did not think it would live. In about a week it seemed better and passed black offensive manure. It would not eat or drink, so I drenched it with milk and when it seemed a little better turned it out with the other cattle, but it wandered off and acted crazy, so I shut it up and drenched with milk four or five days. It seems to eat some grass, but has drunk nothing for four or five days. It is a living skeleton and grits its teeth most of the time. I gave it a half pint of linseed oil a few days ago.

If backleg was present the calf would be lame and show a swelling on the or shoulder or some other part of the body. The symptoms described by you more indicate indigestion and impaction from eating coarse, dry grass or fodder. Copious doses of castor oil in milk give the best results in such cases and should be followed by stimulants in warm flaxseed tea. When the calf dies you probably will find impaction present.

FOUNDER.

A gray mare in foal seems to be stiff in the front shoulders and is weak in the fetlock of her hind legs. When being backed out of the stable she drags her front feet and when traveling on the road she trots like she had a wooden stick under her.

The symptoms indicate founder and she should be retired from work and given her freedom on grass, until after foaling. She may be fed oats and bran on grass. After foaling, if the trouble persists, clip the hair from the hoof-heads of both fore feet and blister them, one at a time, with cerate of cantharides at intervals of two or three weeks until she can go fairly well.

The accompanying illustration is that of the great Poland China boar, Jumbo the Great, at the head of the good herd owned by Orville O. Jones, York, Neb. Mr. Jones has good reason to feel proud of this boar, as he is one of the very exceptional boars of the state. He is big and smooth and plenty of quality and is an excellent breeder of very choice stuff. He was sired by Wade's Jumbo by the 1,000-pound Jumbo. Mr. Jones will offer boars by this sire at any time from now on. Mention The Homestead when you write.

The Most Coveted Trophy Ever Won By Any Motorcycle

THIS diamond medal was awarded a Harley-Davidson when it won the National Endurance Contest held by the Federation of American Motorcyclists. So exceptional was the showing the Harley-Davidson made that the judges not only awarded it a diamond medal and a perfect score of 1000 points, but in addition, because of the super-excellent performance, gave it a plus five, or 1000+5 score in all. This is the first and only time any motorcycle has been so honored. It was a fitting tribute to the quality of the

HARLEY-DAVIDSON

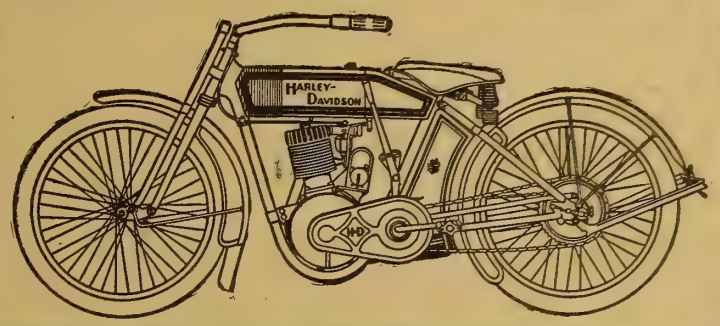
and proved its absolute reliability and durability, as no amount of minor records could.

Awarded Perfect Scores in
National Endur. Contest
Western Dist. End. Cont.
Lake Dist. End. Contest
Savannah End. Contest
Los Angeles End. Contest
Peninsular End. Contest
Linden End. Contest
North Shore End. Contest
San Francisco End. Cont.
N. Y. Quarterly Trials
Cleveland 3-day End. Run
New Jersey 24-hr. End. Run
And Many Others

Harley-Davidson dealers everywhere are demonstrating its many features, among which are the *Ful-Floteing Seat* and the *Free-Wheel Control*, exclusive patented features, which make the Harley-Davidson "the comfortable motorcycle."

Ask your dealer for a demonstration, or write for catalog.

HARLEY-DAVIDSON MOTOR CO.
Producers of High-Grade Motorcycles for eleven years.
766 A Street MILWAUKEE, WIS.



CURE THAT SPAVINED HORSE

In three weeks' time you can have a good, sound driver or work horse in place of a lame, spavined animal, by using **Bo-Spav-O**—the remedy that is guaranteed to positively remove and cure a bone spavin without blistering or leaving scar or blemish of any kind. A simple, humane, easy-to-apply remedy that quickly makes bone spavins disappear. Used for three years and not a single failure. Write today for interesting circular and further information.

WELCH BROS.
100 Milwaukee St., Oconomowoc, Wis.

BO-SPAV-O
TRADE MARK
GUARANTEED TO POSITIVELY REMOVE AND CURE A BONE SPAVIN
WILL NOT BLISTER
Welch Bros
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Don't Have a Blind One

"VISIO"

A Remedy for Moon Blindness

(Opthalmia), Cataract and Conjunctivits
Shying horses all suffer from diseased eyes.

"VISIO" will convince any horse owner that it is the best remedy for defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our money back GUARANTEE.

$2.00 per bottle, postpaid on receipt of price.

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ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

There are two ways of getting a poor stand of corn—to get it too thin and to get it too thick.

NEWS OF THE SALE RING

Waukesha, Wis., Guernsey Sale.

The Guernsey breeders of Waukesha county, (Wisconsin), by offering a large number of choicely bred and well-fitted representatives of their herd and by agreeing to sell them under guarantees which would safeguard and satisfy even the most discriminating purchasers, attracted buyers from Ohio, Indiana, Iowa, Michigan, Minnesota, Illinois, North Dakota, Idaho and very many sections of Wisconsin to their fourth annual sale, which was held in Waukesha on May 22d. By pledging every animal to absolute sale, prohibiting all by bidding, guaranteeing all stock free from tuberculosis and holding every consignor responsible for his representatives, the confidence of the numerous buyers was stimulated sufficiently to induce the purchase of the seventy-seven consignments at an average of $287.50, which considering the number of young things sold, was regarded as a high figure. The top price of the sale was paid by Fred B. Smith, Terre Haute, Ind., for Glenwood Eventide, a well-bred four year old bred by Charles L. Hill, Rosendale, Wis., president of the American Guernsey Cattle Club. As a two year old, this heifer produced 7,048.9 pounds of milk and 302.48 pounds of b tter fat. The entire offerings was presented in good sale shape and the guarantees of the consignors established the confidence and gained the admiration of all in attendance at the sale. A list of the buyers follows:

FEMALES.

Stella Beauty; Frank E. Swan, Wauwatosa, Wis.	$245
Dairy Maid of the King's Mills; Jorstad Bros., Cameron, Wis.	240
Raymond's Rosamond; Samuel Siewart, Colgate, Wis.	215
Val's Baby; Geo. Chapman, Waukesha, Wis.	140
Queen of Fairview 3d; J. B. Otteson, Albert Lea, Minn.	305
Queen Bess of Westbrook; Wm. Buttersworth, Moline, Ill.	320
Miss Flossie of Park Farm; H. Stillson Hart, Barrington, Ill.	205
Sequel's Lillia; Bailey Falls Farm, Ogelsby, Ill.	205
Raymond's Grace; John Hetts; Ft. Atkinson, Wis.	250
Sequel's Rose; Fred B. Smith, Terre Haute, Ind.	240
Imp. Gladys of Blaye Farm; John Hoolamus, West Bend, Wis.	250
Foxy D.; E. L. Lobell, Mukwonago, Wis.	205
Florence V.; H. A. Main, Ft. Atkinson, Wis.	300
Derinda's Beauty of Suuny Side; C. J. & D. S. Mitchell, Brookfield, Wis.	210
Dora's Jane; Frank Swan	195
Badger Rose; Andrew Kalkind; Menomonie, Wis.	195
Rosana of Willow Brook Farms; Flambeau Farm, Park Falls, Wis.	190
Foscoro's Pride; E. H. Drews, Madison, Wis.	300
Imp. Taylor's Lily; H. S. Rogers, Kenosha, Wis.	255
Ceratina of Skippack; J. B. Otteson	305
Lizette Jane; John Swan	430
Marybella of Homestead; Frank Swan	280
Lady Howard; C. W. Buck, Eldorado, Wis.	280
Vazon's Sequel's Janilly; Frank Swan	230
Henrietta's Glory; H. Stillson Hart	325
Raymond's Enola; H. C. Schmeling, Edgerton, Wis.	230
Fern Borden; E. E. Drews, Madison, Wis.	515
Hulda Shelia Snowdoun; Roy Burton, Eagle, Wis.	230
De Witte's Governor du Braye's Jeronie; C. W. Buck	160
Sequel's Fancy of Willowdale; Ralph Tratt, Whitewater, Wis.	250
Louise of Willow Brook Farm; W. C. Turner, Eagle, Wis.	185
Fern's Favorite; Fred B. Smith	380
Minnehaha 3d; Geo. H. Silvermead; Edgerton, Wis.	235
Sequel's Nelly; J. J. Dickhart, Helenville, Wis.	200
Cora of Spring City; H. C. Schmeling	230
Adraunette; E. A. Walter, Walworth, Wis.	240
Glenwood's Winifred; Fred B. Smith	415
Lucette's Glenwood Bell; Paul Hartung, Wauwatosa, Wis.	325
Imp. Violet des Jaonnets 4th; E. S. Persons, Minot, N. D.	470
Catello's Heiress; Geo. W. Browne; Milwaukee, Wis.	285
Imp. Beauty of le Briquet; Bailey Falls Farms	445
Mac's Blossom; Westmoreland Farm, Oconomowoc, Wis.	600
Nancy's Gem; Geo. W. Browne	500
Sequel's Aurea; Frank Swan	290
Glenwood's Leona; Fred B. Smith	490
Thya's Daughter; J. B. Otteson	290
Almena; W. C. Turner	360
Luecicero's Lily; Paul James Lamb, Petersburg, Ind.	230
Alice of Willow Brook Farms; J. E. Fick, Waconia, Minn.	200
Lady Violet; Frank Swan	225
Glenwood's Stanford's Queen; Fred B. Smith	500
Sookey's Rose of Paradise; John Hetts	325
Lilly Ellis Fern 2d; Mrs. W. G. Vanderbark, Zanesville, Ohio	350
Glenwood Eventide; Fred B. Smith	700
Sequel's Snowdrop; W. C. Turner	300
Ann Merryman; Geo. W. Browne	290
Lady Primrose; Chris Skaar; Hayward, Minn.	305
Buttercup of Sunnyside; Kenneth Maule, Dousman, Wis.	475
Ida of Hillhurst; E. E. Drews	285
Sequel's Dairymaid; H. A. Main	300
Rose of the Villocq; G. W. Browne	280
Beauty 4th of the Quine's Hotel; E. H. Drews	480
Sequel's Lady Astrid; H. Stillson Hart	370
Miss Freckles; P. James Lamb	295
Lady Earl of Homestead; Geo. W. Browne	310
Lady Taft; H. A. Main	325

MALES.

Guiding Star of Fox Valley; Geo. Peacock, Mukwonago, Wis.	100
Lily's Boy of Sunny Valley; H. A. Witte	100
Aimable Sequel Encore; C. A. Potter, Milwaukee, Wis.	300
Hale's Independence Lad; Chas. Agnew, Whitewater, Wis.	170
King's New Berlin; Martin King, Muskego, Wis.	190
Billy France of the Camp; Geo. H. Browne	200
Golden Glory; Frank Swan	280
Gold Dust's Victor; E. S. Persons	195
Duke of Tuscany; E. G. Davis	195
Topsy's Tom; Mrs. M. D. Hart, Chippewa Falls, Wis.	150
Yeksa's Prince; Roy Coombs, Troy Center, Wis.	150

SUMMARY.

77 head	$22,215; average	$288.50
66 females	20,185; average	305.83
11 males	2,030; average	184.54

The E. S. Mayes Jr. Duroc Sale a Decided Success.

On Monday, May 21st, Mr. E. S. Mayes Jr., Springfield, Ky., held a most successful Duroc sale. He sold a host of males, some not by prominent sires, while a few were by Defender and Superba. The males and gilts by or bred to these two noted sires sold good and there wasn't enough of them to supply the demand. Buyers and bids were in from ten states. Cols. H. L. Iglehart and C. C. Wheeler done the selling in a most satisfactory manner. A general good time was had, Mr. Mayes being some host. Below is a list of buyers and prices:

2.	McKee Bros., Versalles, Ky.	$175
3	A. F. Ogden, Anchorage, Ky.	100
4	McKee Bros.	42
5	H. L. Muir, Bondstown, Ky.	31
6	H. P. Hawkins, Stanford, Ky.	45
7	McKee Bros.,	46
8	John McConnel, Danville, Ky.	26
9	H. P. Hawkins	46
10	C. F. Ogden	75
11	Rank Bros., Pulaska, Tenn.	125
12	Chas. F. Sprague, Lima, Ohio	80
13	John McConnell	36
14	H. E. Browning	36
15	McKee Bros.,	34
16	H. E. Browning	31
17	Fred Allen, Ripley, Ill.	29
18	W. Wheatley, Bondstown, Ky.	30
19	McKee Bros.,	100
20	H. P. Hawkins	45
21	McKee Bros.,	60
22	C. R. McAndrews, Ainsworth, Neb.	92
23	C. F. Ogden	66
24	C. R. McAndrews	32
25	H. E. Browning	57
26	D. T. McTroy, Lebanon, Ky.	51
27	C. F. Ogden	70
30	R. M. Bannister, Lebanon, Ky.	110
31	C. F. Ogden	60
33	D. T. McTroy	36
37	R. M. Bannister	16
38	H. L. Muir	36
41	H. E. Browning	27
42	H. L. Muir	26
43	H. L. Muir	31
44	Peacock Bros., Cochran, Ga.	40
45	D. T. McTroy	25
46	J. A. Stewart, Aramonda, Ga.	20
47	C. E. Tate, Stanford, Ky.	105
48	J. C. McConnel	37
49	C. H. Robinson, Harrisburg, Ky.	28
50	McKee Bros.	32
51	McKee Bros.	30
52	J. A. Robison, Danville, Ky.	16
53	W. Spillman, Harrisburg Ky.	28
54	G. F. Robinson, Harmony, Ky.	28
55	G. F. Robinson	28
59	McKee Bros.	35
60	McKee Bros.	25
61	McKee Bros.	51
62	McKee Bros.	45
69	E. S. & C. G. Tachan, La Grange, Ky.	21
70	E. S. & C. G. Tachan	89
71	G. C. Everts, Audubon, Iowa	42
72	E. A. Hillard, Clinton, Ky.	60

64 head averaged $43.24 per head.

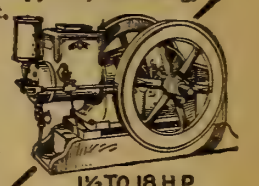
APPLETON

Appleton-Goodhue Windmills will pump your water economically, work whenever the wind blows and keep at it for years. For a nominal sum we will *Insure for 5 years* against cyclones, tornadoes, anything but neglect. Why experiment; buy a simple, sturdy, safe, self-oiling, self-governing Appleton Goodhue outfit.

FARM POWERS

When the wind don't blow you will need an Appleton Gasoline Engine and pump jack. You can belt on to the pump, when needed, or run your churn, hand sheller, etc. For heavy work, running the huskerorsilo filler you have your pick up to 18 H. P. Hopper cooled, speed changing device, single side rod; a perfect engine. Write us today.

APPLETON MFG. CO., 339 Fargo St., Batavia, Ill.



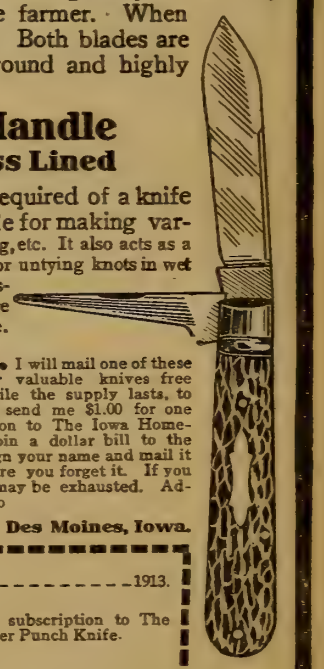
1½ TO 18 H.P. SKIDDED - PORTABLE

THIS KNIFE COSTS MY READERS NOTHING

You have read about the famous Leather Punch Pocket Knife—the knife that is called the "Marvel of Mechanical Ingenuity"—the only knife that was ever made especially for the farmer. When opened it is six and one-half inches long. Both blades are of finest tempered tool steel, perfectly ground and highly polished. The knife is complete with

Best Quality Stag Handle
Securely Riveted and Brass Lined

The large blade fills every common use required of a knife while the leather punch blade is indispensable for making various sized holes in leather for buckles, rivets, belt lacing, etc. It also acts as a swedging awl or marlin spike when turned to the left. For untying knots in wet rope and hard leather this blade has no equal. While possessing all these valuable features, the knife is no more clumsy or awkward to carry than an ordinary pocket knife.



My Guarantee I am so sure that this knife is all I claim for it that I am going to place a gilt edge guarantee on it. Send me $1.00 for one year's subscription to The Iowa Homestead. I will mail you a knife free. Try it for ten days. If it is not just what I claim it to be, you can return it to me and I will refund your money. You take no chances.

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FREE Service Department. When it comes to help or information for proper installing to get the most profit out of your engine, just call on my Service Department composed of engine experts. Think of it. I not only save you money right at the start but put at your disposal a corps of experts who will tell you how to install your engine, size pulleys to use with different machines, anything, in fact, you may want to know, and this service don't cost you one cent. It's just another advantage you get when you buy of Galloway.

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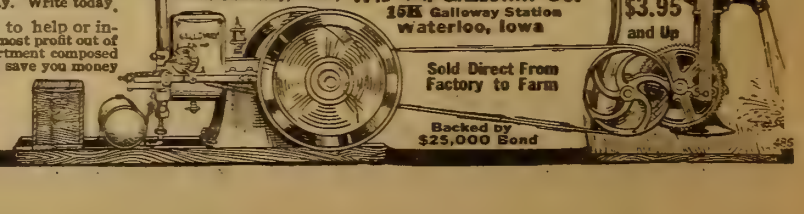
Waterloo, Iowa



THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

What happens when some one member of a family makes a practice of giving up his or her (it is usually her) wishes and plans, hopes and ambitions for the benefit of others? What happens too often is that the others instead of being benefited are, in the end, really injured by the self-sacrifice of the one who thought to serve them. Nothing is more foolish, more detrimental to both parties than mistaken self-sacrifice. Suppose a husband foolishly allows himself to be imposed upon by an exacting, lazy or ambitious wife—he cripples his own life and instead of serving the best interests of her he loves makes it possible for her to become less worthy of his love and of her own self-esteem.

Suppose a wife foolishly effaces herself in order to please a husband whose happiness requires the daily offering of incense, instead of serving him wisely she is catering to qualities which seriously interfere with both usefulness and happiness. Suppose a mother makes a sort of door mat of herself in her loving desire to be everything and do everything for her family. She is teaching them to be lazy and selfish, inconsiderate of her and careful only for their own comfort; she is actually digging pitfalls for the feet of those whom she holds dearer than life itself.

If we could but see the ultimate end of much self-sacrifice we would discover it to be a vice instead of a virtue, a curse instead of a blessing, and we would learn to study well before doing for others what they should do for themselves, before giving to others what they should win for themselves or do without—before robbing our own lives of opportunities and advantages and pleasures without which life is oftentimes stunted and joyless.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Half the joy of life is in little things taken on the run.—David Starr Jordan.

In this world it is not what we take up, but what we give up that makes us rich.—Henry Ward Beecher.

You may own this plot of ground, and I that, but the horizon belongs to him who can interpret it!—Ralph Waldo Emerson.

THE BIVOUAC OF THE DEAD.

The muffled drum's sad roll has beat
The soldier's last tattoo;
No more on life's parade shall meet
That brave and fallen few.
On fame's eternal camping ground
Their silent tents are spread,
And glory guards, with solemn round,
The bivouac of the dead.

No rumor of the foe's advance
Now swells upon the wind;
No troubled thought at midnight haunts
Of loved ones left behind;
No vision of the morrow's strife
The warrior's dream alarms;
No braying horn nor screaming fife
At dawn shall call to arms.

Rest on, embalmed and sainted dead,
Dear as the blood ye gave.
No impious footsteps here shall tread
The herbage of your grave;
Nor shall your glory be forgot
While fame her records keeps,
Or honor points the hallowed spot
Where valor proudly sleeps.

RHUBARB WAYS.

Baked Rhubarb.—Wash and wipe dry the rhubarb. Cut into inch lengths without peeling. Put a layer into the bottom of an earthern baking dish, cover with sugar; repeat this process until sufficient quantity is used. Cover tightly; do not add water. Bake one hour and serve hot.

Rhubarb Marmalade.—Two quarts of rhubarb, two pints of sugar, two oranges, juice of one and grated rind of one; one cup of chopped raisins. Cut the rhubarb in pieces, cover it with sugar, and let it stand over night, then add other fruit and cook until thick. All my friends and neighbors who have tasted this marmalade have liked it and many of them have made it for themselves. If you wish you can make it without the raisins.

Orange Rhubarb Sauce.—Boil strips of orange till tender, then add sufficient sugar to form a thick sirup; lay into it very carefully a layer of rhubarb about two and a half inches long; when done remove to a glass dish, and so cook another layer till all the sirup has been consumed.

AMONG OURSELVES.

After a number of disappointments, due to first one cause and then another, we at last have the pleasure of giving the circle the picture of our good friend, Mrs. L. H. Palmer, of River Dale Farm, Baraboo, Wis.

MRS. L. H. PALMER.

Sometimes from neighbors or others I am able to gather enough facts to make a little sketch of the life of the friend whose picture we present, but this time there was no one to whom I could go for information but Mrs. Palmer herself, and all she tells is that she is "just an average farm woman who, having now raised my family, am trying to help in my feeble way other and younger women to see and understand and appreciate their duties and privileges as homemakers." It is a noble aim Mrs. Palmer has set herself and it was doubtless with it in view that she penned the message we are to have from her at this time:

"If the men are doing so poorly, what shall we say of the women who have trained them? We have made the men what they are." The above is taken from the pages of a woman's magazine and it should receive serious consideration. Woman and home have always been the loadstone that drew the family together and if the liberty to share men's work and take part in all business activities is causing us to neglect the God-given privilege of wifehood and motherhood we are losing the best and sweetest part of our lives. There is nothing that can satisfy true womanhood so much as to feel that she is the one that husband and children look to for care and loving sympathy. The influence of woman does much to make home life what it should be, and if all women fully understood how powerful and far-reaching might be their influence they would not be so careless of the precious boon. When a son or brother holds his head just a little higher as he speaks of his mother or sister he will respect all womankind, if not disillusioned by the easy license of those outside of home. "Woman's hand rocks the world," from babyhood to old age. Man, from prehistoric times, has reverenced sweet womanliness and when to that charm be added intelligence and fine executive ability we need have no fear that we will not be given any privilege we may desire.

Thinking over what Mrs. Palmer has said a question occurs to me. It is said that "no spring can rise higher than its source." Is it not equally true the quality of a woman's motherhood depends upon the quality of her womanhood? In other words, can a woman who is not developed as an individual, one who has not learned how big a thing life is and how wise and strong and brave and kind and resourceful one must be to be equal to its demands, can such an one be a really good mother? Olive Schreiner says somewhere that women perform badly the one task which is theirs by virtue of sex. If this is true—and it

K-R-I-T

The K-r-i-t - Farmer goes everywhere and always gets back

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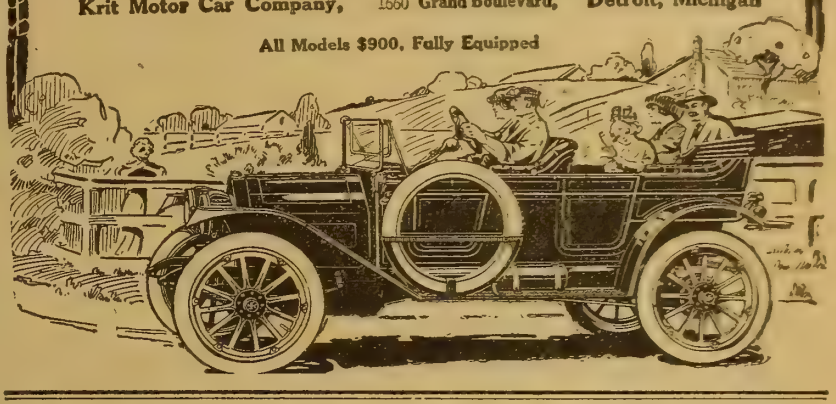

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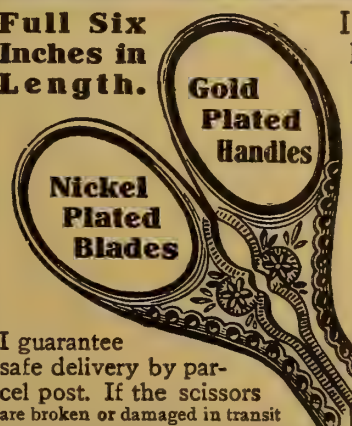

I have a pair of these excellent scissors with gold plated handles to give to each one of my lady readers who will answer this advertisement. The scissors are full six inches in length and made of best material. The blades are perfectly tempered, nickel plated and very highly polished; the edges are keen and accurately beveled; the handles are beautifully carved and

Plated With Pure 22 Karat Gold

I am not afraid to guarantee these scissors. If you are not perfectly satisfied with the pair I send you, after using it for a week, you can return it to me and I will cheerfully refund your money. Did you ever have a better offer than this? You have absolutely nothing to lose

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Send me $1 for one year's subscription to The Homestead, new or renewal, and I will send you this pair of scissors postpaid free of all charge. Do not go to the trouble of going to town to get a money order. Simply pin a dollar bill to the coupon below and mail it at my risk today.

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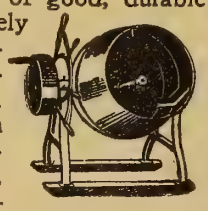

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is, to a large degree—is it not because women have not, until quite lately, had the chance to develop the qualities they need to be mothers of the kind they fain would be? I wish the friends would discuss this.

Our next number is from "An Old-fashioned Mother," who brings us something a little out of the way:

My best labor-saving implement is very simple. Nearly every family has one or more if they realize the many uses it may be put to. Of course, I have a washing machine and sewing machine, without either of which I could not keep house. The first mentioned is the greatest saver for its capacity I ever had in my house. For want of a better name I call it my "right hand." Its uses are so many and varied. It is a bread mixer, a cake maker, a dish washer, or will prepare vegetables and many other tasks usually left to the hands of a busy mother. With the help of my "right hand" I can quickly clean up a room, sweep, dust and set it in order. It dresses the younger children and rocks the baby to sleep. There! I guess I've given a clue to my riddle. Here is the true explanation: It is about five feet, high, stands on two rather small feet, encased in shoes and stockings and, usually, when in use is covered with a long gingham apron. The top is covered with long brown hair; it has two strong, willing hands, two bright, blue eyes that look about to see the many ways she may help mother—my little twelve-year-old daughter. Am I wrong to call her my "right hand?" I have three other little girls who are following in big sister's steps. I would like to hear from other mothers—their ideas of teaching the little girls to work and the best ways to interest them.

This "Old-fashioned Mother" is to be congratulated upon the wise way in which she is rearing her girls to be her helpers. Like mercy this sort of thing blesses twice—both mother and children. By all means let us hear from others along the line suggested by this Minnesota sister.

A new member of our circle, Mary Eleanor Kramer, brings us a number of "seasonable recipes for June:"

Green vegetables are now plentiful, including asparagus, peas, lettuce, radishes, onions, spinach and early carrots. Thus many appetizing dishes may be added to the daily fare.

Asparagus with Eggs.—Two bunches of asparagus. Six eggs. Three tablespoonfuls of butter. Two teaspoonfuls of salt. Wash the asparagus; peel the tough ends, tie a bundle and put into a saucepan with enough boiling water to cover it. At the end of fifteen minutes add two teaspoonfuls of salt; boil half an hour. Remove from the fire, drain. Untie the bundle, arrange the asparagus in a baking dish. Spread half the butter over the asparagus and set where it will keep hot. Beat the eggs light, add the remainder of the butter, broken into bits. Pour this mixture over the asparagus and set the dish in a moderately hot oven for five minutes. Serve very hot.

Creamed Asparagus.—Wash carefully and break in inch lengths as far as each stalk can be broken. Cook in boiling salted water fifteen minutes. Drain and make a white sauce of one cup of water in which the asparagus was cooked and one cup of milk, thickened with two heaping tablespoonfuls of flour and two tablespoonfuls of butter, cooked together. Season with salt and pepper. Pour same over the asparagus and serve hot. The above may be served on hot buttered toast, by arranging the asparagus on the toast, then pouring the white sauce over all. Add a sifting of paprika.

Minced Spinach.—Wash the spinach thoroughly and boil in salted water (a very little) until tender. Drain in a colander, then turn into a tray and chop fine. Sprinkle with salt and pepper. For each quart of chopped spinach put two tablespoonfuls of butter and one of flour in a frying pan. When cooked smooth and before it browns, add the spinach; stir for five minutes, then add half a cupful of sweet milk, and cook three minutes longer. Arrange in a mound on a hot platter. Garnish with slices of hard-boiled eggs and serve at once.

Spring Onions on Toast.—Mince a bunch of onions rather fine, cover with cold water and set over the fire. When at the boiling point, drain and cover again with cold water. Boil ten minutes, drain, season with a little salt, a dash of pepper, a small piece of butter rolled in flour, and a few spoonfuls of milk. Have the toast ready, cut in rounds or squares and place a tablespoonful of the onion mixture in the center of each. This dish will be found odorless and delicious.

The remainder of our friend's offering—one sure to commend her to our cooks—will be given at our next meeting.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

PRETTY POLLY.

(First Prize.)

"Pretty Polly" was a parrot, who lived with some children in the country. She was not kept in a cage. She flew about the house, and went outdoors. She could talk a great deal. She would sit on the fence or in a tree and cry, "Whoa!" to any horse that was going by, and he would stop quickly. Then Polly would laugh and say, "Naughty Polly!"

When the family was eating she would fly upon the table, perch very near the butter and put her bill in the very middle of it. Polly knew it was not right to do so, but butter was her favorite food.

There was an open fireplace in the kitchen. Once Polly crept in one night, and said, "Polly so cold! Oh, so cold! Poor Polly!" Ray called to her, "Come, Polly, get in bed with me, then you will be warm." Then saying, "Polly so cold," she trotted into his room, climbed upon the bed, crawled under the cover, and soon was fast asleep.

When Polly wanted to come in the house she would call, "Ray, let Polly in!" If he did not open the door quickly, she called, "Ra-a-y, Tom is here!" So when he came to see if Tom was really at the door, she would fly shouting, "Ha! Ha! Polly in!" Polly loved her home; but, sad to say, she flew away, and never came back again. But she was never forgotten by the children.

—Lucille Fierce, age 12.

Lost In The Woods.

(Second Prize.)

Our school went to the woods for a picnic last week. We went in a hayrack. After we had gone for about three miles we became so thirsty that we stopped at a house to get a drink. There was a very ugly dog by the well. He jumped so that he broke the chain and began to chase us. We all jumped into the rack and went without getting a drink. We did not stop at any house after that.

About half an hour after that we reached the woods. We unharnessed the horses so that they might eat grass. We looked around to find a good place to eat dinner. At last we found a pretty place near a brook. Here we spread our dinner. We ate part of the food we had brought, and saved the rest for supper.

After dinner the girls roamed off to pick flowers, and the boys went fishing. One of the girls got lost and we could not find her. We called and called, but we could not hear any answer. We became frightened and did not know what to do. Then we divided into three parties, each party going in different directions. Where we started from we left a paper which we had written on, telling her if she came there she should stay, for we were all coming back. We looked, but saw nothing of her. After our party had roamed for about two hours we returned to where we had started

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D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

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from. When we reached there all of the girls were there waiting for us. Mary had roamed off, and when she could not find us she sat down to rest. While she was sitting there she fell asleep, and one of the parties found her asleep.

Then we went to our rack and prepared supper, for it was getting late. The boys had caught quite a few fishes, and we fried them for supper.

I enjoyed myself very much at this picnic, even if we did have an exciting time. —Elvera Johnson, age 10.

Some Good Advice.

(Third Prize.)

As I haven't any particular subject to write about, I will tell the young folks a few little helps to get through life easier. Be kind to all. Treat the poor as well as the rich. Do not be deceitful. Always tell the truth. Always be fair in all that you do, so people can trust you. Do not have a high temper; learn to control it. These are all I think of right now, and I hope they may help someone sometime.

—Hopeful, age, 12.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 9 'Gen. 44: 4-17. June 1, 1913.

JOSEPH TESTS HIS BRETHREN.

The story of Joseph is a moving picture. It is instinctive with life, color, and activity. It moves not only itself, but it moves those who look at it. It has passed before each successive generation and aroused the strongest compunctions. It is the story of sin, its turpitude and penalties; exhibits the progress of awakening, conviction and conversion; reveals the possibility of forgiveness and reconciliation. Joseph was the most discreet pardoner the world has ever seen. If he had just condoned his brothers' sin against himself, he would have been casting pearls before swine. Forgiveness is too precious a thing for that. So he prepared a series of surprises calculated to remind them in a most vivid way of their sin twenty years before, and led them to regret it fervently. By these tests also their gains in character were revealed to him and were augmented in them. If Joseph had found his brethren just where they were two decades before in morals it was evidently his purpose to have disowned them, but to have rescued his own full brother from their vicious company. Great must have been his joy to find them so much improved. Twenty years before they would have left Benjamin in the hands of this apparently cruel viceroy to suffer whatever fate might be in store for him, just as they had put Joseph himself in the hands of the slave traders. They would have even put him to death, if necessary, to exonerate and free themselves. The distinct honor and preference which the viceroy had shown for Benjamin was enough to have inflamed their old envy if a spark of it remained. Again, Jacob had shown such partiality towards Benjamin that he was almost ready to let them and their children die of hunger rather than run the risk of losing him as he had lost Joseph in Egypt. But under the severest test the brothers proved themselves a firebrand new set of men. They thought nothing of themselves. They considered the effect upon their aged father if they should return without Benjamin. It would be his deathblow and "bring down his gray hairs with sorrow to the grave." They thought of Benjamin. Could they leave him to the fate of a slave? Splendid was their moral earnestness! It voiced itself in the deprecation and entreaty of Judah, which has been pronounced one of the finest specimens of dignified and persuasive eloquence. For pathos and sustaining dramatic power it is unsurpassed in literature. But back of the fervid rhetoric is the steel frame of a noble purpose. The climax of Judah's orderly and progressive plea is that he himself be allowed to take Benjamin's place and suffer in his stead any penalty that might be inflicted. Greater contrast to the cupidity, selfishness, and jealousy of twenty years before could not be imagined.

BUTLER STEEL **Grain Bin**

Corrugated. Can't Cave In.

Rat-Proof. Fire-Proof.

Can be used for store house. Capacity increased by additional sections. Keeps grain perfectly. Large door and removable shoveling board. Ask for booklet showing letters from satisfied users.

BUTLER MANUFACTURING CO.
1210 W. Tenth Street, Kansas City, Mo.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa

5246 Ladies' Wrapper.—Here we have the ever-popular princess wrapper. Many prefer this tight-fitting style to any other. It is easy to make and suitable for development in a number of materials, some of which are cotton, challis, percale, albatross and cashmere.

The pattern 5246 is cut in sizes 32 to 44 inches bust measure. Medium size requires 7⅛ yards of 36-inch material. Price of pattern ten cents.

5778 Ladies' Maternity Dress.—This pretty dress closes at the front. It is made with a body lining. The skirt is cut in four gores and has an extra length at the top for readjusting. Any of the pretty silk materials can be used to make this dress with the collar, cuffs and fold at bottom of contrasting material or satin.

The pattern 5778 is cut in sizes 32 to 42 inches bust measure. Medium size requires 5 yards of 44-inch material, 1 yard of 18-inch all over and 2½ yards of satin. Price of pattern ten cents.

5937 Ladies' and Misses' Night Gown.—This night gown can be made with either the high or low neck and with long or short sleeves. Longcloth, nainsook, muslin or silk can be used to make this night gown with the neck edge of buttonhole stitch or embroidery.

The pattern 5937 is cut in sizes 30 to 44 inches bust measure. Medium size requires 4¼ yards of 36-inch material, 1⅛ yards of beading and 2 yards of ribbon. Price of pattern ten cents.

4949 Girls' Dress.—In the above design we have a practical little dress which might be made for school or other general wear. The full length closing at front is a new idea and aids greatly in the laundering.

The patern 4949 is cut in sizes 4 to 12 years. Medium size requires 3½ yards of 36-inch material with ¾ yard of 27-inch contrasting goods. Price of pattern ten cents.

5489 Ladies' Six-Gored Skirt.—In this handsome model we have one of the new effects using a plaited section as an insert at the lower part of the side seams. The panels are retained in front and back and there is no apparent widening of the skirt, although the plaits give greater ease of movement.

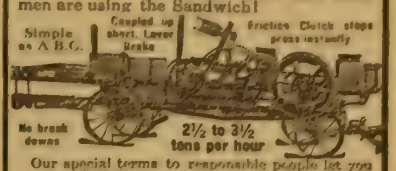
The pattern 5489 is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅛ yards of 44-inch material. Price of pattern ten cents.

5127 A Fitted Corset Cover.—The closely fitted outer garments which are now worn demand underwear that is equally fitted. The corset cover illustrated will fill every demand of fashion and should appeal to any woman who is at all inclined to stoutness. Cambric, muslin and batiste are suitable materials for making this corset cover.

The pattern 5127 is cut in sizes 32 to 44 inches bust measure. Medium size requires 1¼ yards of 27-inch material. Price of pattern ten cents.

SANDWICH
(solid steel—money maker)
Motor Press

Puts you—or your boys—in the big paying, fast growing business of baling hay! "Net profit $18 to $22 per day," write Swartz & Mensch, Dixon, Ill. Other hustlers making $200 to $300 net profits monthly. And these men are using the Sandwich!



Our special terms to responsible people let you start with little money. And you pay from your profits. Unless we know the Sandwich will make you stacks of ready cash, we could not sell on this way.

Gas Engine on Same Truck

Here's the most complete hay baling outfit in existence. Full power is driven from engine to press by heavy steel roller chain. It does away with slipping belts. The Gas Engine is the best quality—hopper cooled type—gear driven magneto—4, 6, 8, and 10-horse power.

The Sandwich has a simple time-tried self feeder and a big feed opening. A great windrow baler. Beats every ordinary press from 2 to 3 tons daily. 25 tons are an everyday job for the Sandwich; often 30 to 40.

This Book FREE

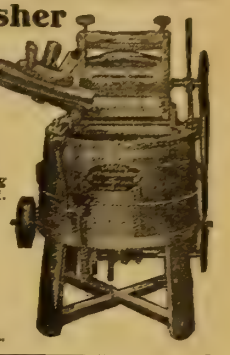
Write today for postpaid copy of this amazing story of profits others are making. And if you are interested in Horse Power Presses, let us tell you about our large line. Address

SANDWICH MFG. CO., 170 A St., Sandwich, Ill.
Box 170, Council Bluffs, Ia. Box 170, Kansas City, Mo.

World's Greatest Power Washer

Less than $17

from factory at **JOBBERS' PRICES**



Write today for catalog and 30 days free trial.

Warranted 5 Years

NEWTON WASHING MACHINE CO.,
Newton, Iowa.

Free to Boys

Solve this Puzzle

H--S W-G--R

Can you fill in the blanks above and complete a well known baseball players name? You can if you try. Just write and tell me whose name it is and I will tell you how you can get the fine complete baseball outfit pictured below

There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 220 Popular Bldg., Des Moines, Ia.

When writing to advertisers please mention The Homestead.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

June 18, Combination sale, Chicago, M. A. Judy, manager.

Short-horn Cattle.

June 10, Bellows Bros., Maryville, Mo.
June 11, Howell Rees & Son, Pilger, Neb. (sale at South Omaha, Neb.)
June 12, Owens Bros., Homestead, Iowa.
June 13, Whitsitt Bros., Preemption, Ill.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.

Holstein-Friesian Cattle.

Oct. 1 and 2, Holstein Breeder Company Combination sale, Painesville, S. T. Wood, manager, Geneva, O.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Dairy Cattle.

June 19, Wm. Galloway, Waterloo, Ia.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Kellogg, Ia. (Sale at Newton).
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Poland China Swine.

Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, J. W. Pfander & Sons, Clarinda, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 23, Ed. Seckington, No. English, Ia.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.

Hampshire Swine.

Oct. 14, Clayton Messenger, Keswick, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Some good young Aberdeen Angus bulls are advertised for sale by John Lakings, Hurley, S. D., on page 27.

For bargains in high-producing Holstein cattle write Woodlawn Farm, Sterling, Ill., as per advertisement on page 12.

Some nice Chester White fall boars and sows are advertised for sale at $25 each by A. C. Orme, Nodaway, Iowa, on page 26.

High-grade Holstein cows and heifers due to freshen soon are for sale by W. C. Kenyon & Sons, Elgin, Ill., whose advertisement is on page 12.

For good values in Galloway cattle write James Milliken, Media, Ill. He has some extra strong young bulls for sale and also offers some attractive bargains in females. See page 26.

A. H. Windom, Nodaway, Iowa, is advertising some strictly high-class Poland China fall boars for sale on page 26. These are sired by the 950-pound boar, Pawnee Nelson, and there are a lot of good herd-boar prospects among them. The price for these is $40 and $50 if ordered right away. Mention The Homestead when writing him.

V. W. Harms, Fairbury, Ill., is offering some exceptional values in Percheron and Belgian stallions, as he still has a few high-class ones on hand that he wishes to sell in order to make room for his early summer importation. Owing to the latness of the season he will sell these horses at very attractive prices.

Every family in which there are boys will be interested in the advertisement on page 18 in which reference is made to a new 200-page sporting goods catalog. This illustrates and lists baseball goods, fishing tackle, tents, seines, bicycles, tennis, croquet, golf, hammocks, camp outfits and other goods of like character. Write for the catalog asking for No. 951 H. Address Schmelzer Arms Co., Kansas City, Mo.

John H. Fitch, Lake City, Iowa, the well-known Poland China breeder reports a nice crop of spring pigs on hand, together with a lot of fall boars and sows. He has thirty-five head of these fall boars on hand and they are sired by Jumbo Chief, that splendid son of the champion Sioux Chief and the remainder are sired by Grant King, a son of old Long King. Mr. Fitch would sell some of these fall boars at any time. If you want one write him and you can buy your pick of them now and at a price that you could not think of later in the season. When writing him kindly mention The Homestead.

Myles Harkins, Pleasantville, Iowa, will make a public sale of Duroc Jersey hogs on June 14th. He offers some good individuals and the opportunity will be an excellent one for bargains.

Short-horn bulls are advertised for sale by J. G. Westrope, Harlan, Iowa, on page 27. He has some good young Scotch and Scotch-topped bulls for sale and he is making special prices on these for the next thirty days. Write Mr. Westrope about these bulls at once or go and see them.

A few good young Short-horn bulls are advertised for sale by W. H. McLaughlin, Shelby, Iowa, on page 27. He will also offer a splendid herd bull for sale, a son of the celebrated Imp. Choice Goods. It will pay anybody wanting a bull to call and see the bulls he is offering for sale.

E. E. Handley, Carroll, Iowa, the well-known breeder of big-type Durocs has eighty-five head of spring pigs on hand and some good fall sows. His spring pigs are sired by his old grand champion boar, Frankfort K., and Crimson Chief Again, and he also has one good litter by Col. Gano. He will make a fall sale on October 3d when he will have another good lot of boars to offer the boys.

One of the best of Iowa farms is offered for sale in an advertisement on page 14 of this paper. It is quite conveniently located with access to three railroad stations. There is 260 acres of land all under cultivation and with an excellent set of improvements. A very low price will be quoted for an immediate buyer. Address inquiries to B. B. Burnquist, attorney at law, Fort Dodge, Iowa.

In the issue of May 15th in this paper we described some Shetland ponies owned by C. S. Bratt, Arapahoe, Neb. In this article we were made to say that Mr. Bratt owned a fine imported stallion that was thirty-four inches high and weighed 2,250 pounds, when it should have read 250 pounds. Mr. Bratt's stud is one of the finest in the West and readers of this paper looking for extra good Shetlands will do well to write Mr. Bratt at once, and when doing so, kindly mention this paper.

The remarkable popularity of the silage system of preserving corn makes every fact connected with the silo one of particular interest. Not the least of points to be considered is the ensilage cutter. The Silberzahn cutter is a claimant for the attention of those who are in the market for a cutter which is light running, economical, a uniform cutter and which is generally efficient. Particulars concerning the free trial offer of this cutter may be obtained by writing to Gehl Bros. Mfg. Co., 110 So. Water St., West Bend, Wis.

The Louden Sanitary steel cow stanchion advertised by them is the outgrowth of long experiment in search of a cow fastener which should be at once absolutely safe and afford the maximum of convenience and comfort for the cow. We might go on and say a great many other things about this stanchion, as well as the full line of Louden machinery. It is best, however, to obtain the catalog, which, in addition to a book of free barn plans, may be obtained by writing to Louden Machinery Co., 909 West Broadway, Fairfield, Iowa.

Perhaps one of the greatest evidences of the practicability of the automobile is the fact that a great many enterprising concerns are providing their traveling salesmen with cars with which to cover their territory. A single manufacturer recently placed an order for ten Reo model cars for such purposes. The Reo is, and has always been, one of the greatest successes as a bad roads car. It is a handsome one with every advantage that any other make can claim. Complete descriptions and special prices can be learned from R. M. Owen & Co., Lansing, Mich.

From time to time the announcements of the Studebaker Corporation have appeared in this paper. These have to do not only with automobiles, but a line of agricultural goods that have grown to be American necessities. The Studebaker Corporation is an immense one and one which, while it aims to provide farmers with goods worth the money at which they are sold, has also kept in view the interests of its employes in a rather remarkable manner. At a recent meeting of the board of directors it was voted that a special dividend be distributed at given periods to practically all employes of the corporation. The effect of the plan is really equal to a dividend of 20 or more to those who participate. This broad-minded scheme is one which other employing companies will watch with interest and which must certainly have its value among employes.

Scotch Heifers for Sale.

On page 27 you will find the advertisement of Perry O. Brown, Lamoni, Iowa, who is offering twenty head of choice young Scotch heifers for sale and these are good ones. Most of these are bred to his splendid young Scotch bull and they are bargains at the prices he is quoting. When writing him kindly mention The Homestead.

Angus at Chicago, June 18th.

Fifty head of high-class Aberdeen Angus cattle will be sold at Chicago, Wednesday, June 18th. These cattle are contributed by some of the leading breeders and the sale will be under the management of M. A. Judy, who offers this lot of cattle confident they will please the buying public. They have been carefully selected, both as regards breeding and individual merit, are all good, young ages and the kind that will give a good account of themselves. Full particulars regarding this sale will be given next week. File your application for a catalog along with M. A. Judy, West Lebanon, Ind., mentioning The Homestead when you write.

Minnesota Farm Land Bargains.

A good quarter section of land in Fillmore county, Minnesota, is described in an advertisement on page 14 of this paper. The description is that of an unusually good farm and one which cannot fail to be a profitable investment for any farmer who will buy it and operate it. Its improvements are very complete. Its location is desirable and the price is within the reach of nearly any farmer, while the terms are quite reasonable. Address inquiries to Everett Jones, Spring Valley, Minn.

Early Maturing Seed Corn.

Conditions of the present season are forcing farmers into a realization that where corn planting has not yet been done varieties of seed should be used which mature early. For this purpose we call the attention of our readers to the list enumerated in the advertisement of the Iowa Seed Company on page 14. This list includes some of the most dependable kinds of corn that have been originated. The prices are reasonable. Read the advertisement and send orders to Iowa Seed Company, Department D-1, Des Moines, Iowa.

Order Your Pigs Now.

In a recent letter from J. O. James, Braddyville, Iowa, he says he still has some sensational pigs that he is booking orders for for June delivery at $25 to $35. These are sired by his sensational boar now used at the head of his herd and are out of sows weighing 700 to 800 pounds. No better bred big-type herd can be found today in the West. You can save money by ordering these pigs now. He is selling both boar and sow pigs. Send him your order for these pigs right away, and leave the selection to him. When writing him kindly mention The Homestead.

Choice Angus Heifers for Sale.

Those of our readers who are wanting to buy some good young Aberdeen Angus heifers at private sale should write to or call on Chas. Escher, Botna, Iowa, as he has a very choice lot to sell. The most of these are sired by his imported bulls or are out of imported cows. In point of breeding and individual merit you cannot buy better anywhere and he is pricing these where they will sell. Some enterprising farmer who is thinking of going into the breeding of Angus cattle can pick up a foundation here and get them right. Write Mr. Escher about these at once and kindly mention The Homestead.

Lefebure's Belgians.

Henry Lefebure, Fairfax, Iowa, one of the leading importers of Belgian horses in the United States, has enjoyed an excellent trade during the past season. Each year his business grows and this is largely due to the fact that he handles high-class horses and treats his customers in a straightforward businesslike manner. During the past season he has sold more horses than in any previous year, but at the present time has a number of big, heavy-boned, drafty Belgian stallions on which he would be glad to quote prices. If you want high-class Belgians Mr. Lefebure can please you. See page 27 and when writing kindly mention this paper.

Meinhold'c Poland Chinas.

H. C. Meinhold, Stromsburg, Neb., is offering for immediate sale his herd boar, Big Jumbo, a son of J.'s Jumbo. J.'s Jumbo is and has been one of the best breeders in his section of the country, and Big Jumbo is also a good breeder as shown by the crop of spring pigs on the farm. Gilbert Johnson, Osceola, Neb., bred this boar, and his herd sows and by the way, they are one of the real good ones of the country are nearly all by J.'s Jumbo. J.'s Jumbo is sired by Wade's Jumbo, another boar that is doing a good work for the big hogs of Nebraska. Those of our readers looking for a good boar at a small price will find him in this boar offered by Mr. Meinhold. Address him, mentioning The Homestead.

Fisher's Poland Chinas.

We are glad to direct the attention of our readers to the Poland China advertisement of L. S. Fisher & Son, Edgewood, Iowa, on page 26. These gentlemen are now offering for sale September boars and gilts by Giant Wonder that are worth a good deal more money than is asked for them. They also are prepared to part with some extra good gilts bred for September farrow by H.'s Longfellow. The Messrs. Fisher have adopted the plan of pleasing their customers and running all risks. They prepay express charges and ship stock on approval, which is as good a guarantee as anybody could make. For special prices address L. S. Fisher & Son, R. 1, Edgewood, Iowa.

H. O. Harney's Durocs.

One of the nicest lots of Duroc pigs that the writer has seen to date we saw on the farm of H. O. Harney, Aurora, Neb., a short time ago. Mr. Harney is one of the good Duroc breeders of the state and we are right glad that he has so fine a lot of stuff. Disease took a big share of the crop on the farm a year ago, and it was pretty expensive staying in the fight, but he now has a big lot of immune stuff that should be doubly valuable this season. All of the sows purchased last winter by Mr. Harney were treated as soon as received and they all did very fine indeed. The spring pigs are being immuned as fast as they get big enough and his herd will be in excellent shape from now on. One of the good two-year-old boars that we have seen to date this season is here. He is Gold Model by Golden Model and he looks like he might make a very fine showing at the fair this fall. A very fine litter of pigs by Theobold's herd boar, Valley Chief Col., are on the farm. They are about as good as we have seen thus far. They are out of a daughter of King Col., and she is out of Ohio Lady the noted daughter of Ohio Chief. It would be hard to imagine them better bred, and they look mighty good to the writer. Mr. Harney will have a selected lot of spring boars for sale this fall, and those looking for good ones will be able to find them here. Mr. Harney is a good stockman, and his herd is as good as the best for the numbers.

Hereford Bulls for Sale.

On page 27 you will find the advertisement of A. Spooner & Son, Mondamin, Iowa, who are advertising fifty head of good young Hereford bulls for sale and they are pricing tnese where they will sell. These are well bred, good boned and big, lusty fellows. It is a good time and place to buy one or as many as you want. Write Spooner & Son at once or go and see these bulls. Kindly mention The Homestead when coresponding with them.

Clydesdale Stallion Bargains.

The man that is wanting to buy a good young Clydedale stallion should go and see R. O. Miller, Lucas, Iowa, and do it at once. He is desirous of closing out his Clydesdales and he has a number of very choice young stallions on hand. Among these are some that have been winners in the strongest shows in Canada and they are good ones. Mr. Miller is offering these stallions at prices that will sell and the man that wants a bargain can get it from Robert Miller if he will only go and see him.

Grinnell College.

Grinnell College, Grinnell, Iowa, is advertised on page 18 of this paper. This is an institution of the highest standing. Its record is an invaluable one and the advantages which it presents are superior. These include a group of studies of national standards of demand, superior equipment along scientific lines, a library of 48,000 volumes, eleven buildings on the campus, a gymnasium for men and a gymnasium for women. The instruction in all regular branches is superior. The school of music has an excellent equipment. The sixty-third year of this school begins September 17th. Catalogs may be obtained by writing to Grinnell College, Grinnell, Iowa.

Metal Stack Covers.

Those who have used metal stack covers do not hesitate to praise them. They are a rather new thing, quite in keeping, however, with modern progress. J. J. Clarke, Medicine Lodge, Kan., writes that when he baled his alfalfa last winter "it came out of the stacks as bright green as when it went in. Alfalfa will not sweat or bleach or fade when covered, making it a grade better on the market and sell for at least $1 a ton more." The Martin metal stack covers are rust proof and are used on all kinds of hay with equal success. If you want to protect your hay in stacks from rain write for illustrated circular to Martin Metal Mfg. Co., Wichita, Kan. It will tell all about the covers.

Nels H. Holm's Red Polls.

One of the newer good herds of Red Polled cattle of Nebraska is the one owned by Nels H. Holm, Osceola. Mr. Holm is an enterprising citizen and maintains one of the good stock farms of the country where may be found extra high-class Duroc Jersey swine, Shire horses and Red Polled cattle. Only a few fall boars are for sale from the Duroc herd, but an excellent bunch of spring pigs are on hand. Parties living long distances will do well to order spring boars and gilts now. The very pick of the spring boars are priced at $20 and others at $15. Two very good Red Polled bulls are for sale and also a limited number of females. Parties interested should write and when doing so kindly mention The Homestead. See page 24.

P. M. Lott's Tamworths.

The leading herd of Tamworths of the South Platte county of Nebraska is owned by P. M. Lott, Fairmont. Mr. Lott recently wrote saying that he had some very fine early pigs as well as a nice lot of fall stuff. This herd is one that was founded with the very best to be had in the way of breeding stock, and good seed well cultivated is bound to produce well. The old boar, and one that is responsible for much of the success of this herd is Knoll Slope King, and he was recently sold to M. D. Shaw, Cumberland, Iowa. Some early March and late February pigs are weighing better than seventy-five pounds each, and orders will be filled from this time on for boars. Further notices of this herd will appear from time to time in The Homestead. Kindly watch for them, and in the meantime address Mr. Lott for prices on this stock, mentioning this paper.

C. B. Kneer's Poland Chinas.

One of the really good herds of Poland Chinas of the country is the herd owned by C. B. Kneer, Stromsburg, Neb. Mr. Kneer has been in the Poland China business for many years and has sent out a great deal of desirable stuff. Just now he has a very select lot of fall boars that he wishes to sell. The season for fall boars is just a little late and Mr. Kneer prices these boars below their real value for that reason. The best lot of fall gilts that we have seen to date are on this farm and a few are bred for early fall litters. Most of this fall stuff is sired by Expansion Bob, by old Expansion. He is one of the very few sons of old Expansion that are now alive. The spring pigs are all by Herod 2d, by Herod, by Jumbo Jr. Herod is a brother to Shattuck's famous boar, Sampson. Mr. Kneer recently bought a very valuable boar of Beall & Jackson, Roca, Neb. He is the making of an extra big fellow. He is by Nebraska Wonder, by A

Wonder. Homestead readers looking for good boars will do well to write Mr. Kneer.

Cartwright's Durocs.

J. W. Cartwright, Burlington, Iowa, is an enthusiastic breeder of Duroc Jerseys and will hold his first sale of pure-bred Durocs on September 26th. At that time he will sell a number of fall boars sired by Col. Defender 2d, a grandson of Defender, and a bunch of spring boars and gilts sired by Improver Col, and Col. Improver, both of which are sired by Proud Col. and Defender Boy, a son of Defender. These pigs are out of sows sired by Proud Col., Proud Advance, Proud Ohio Chief, W. R.'s Chief and others. Mr. Cartwrights has 125 spring pigs that are promising and barring accident will make an attractice offering.

McCormick's Polands.

C. A. McCormick, Mechanicsville, Iowa, has a good herd of big-type Poland Chinas and has over 100 good spring pigs at the present time. The pigs are sired by Orange Surprise, an extra big, growthy, heavy-boned yearling boar by Crow's Kind, Matchless Expansion, a good breeding son of Dorr's Expansion, and Big Bone Wonder, a son of the noted Big Bone. This is a good trio of boars and they are siring a nice lot of pigs for Mr. McCormick. Mr. McCormick held a brood sow sale last year and received many compliments on the high standards of his offering. He has some extra good, big, smooth sows in the herd sired by Miller's Longfellow, Chief Jumbo and otehrs of note.

Flying Dutchman Hay Tools.

The Moline Plow Company one of the pioneer institutions of the West, which has from the start devoted its attention to the manufacture of agricultural machinery, has assumed the manufacture and distribution of the Flying Dutchman line of hay tools. These are the Adriance mower, the Flying Dutchman hay loader, the Flying Dutchman side delivery rake and tedder and the Adriance all-steel rake. An advertisement of these goods occupies a prominent position on page 7 of this paper. It gives a great many details concerning each of the machines. Not all, however, as they have so many points of excellence that it is necessary to set them forth in a handsomely illustrated circular, for which write to the Moline Plow Co., Department 11, Moline, Ill.

Col. Z. S. Branson.

A gentleman who understands thoroughly the principle of expert salesmanship, who adds prestige to an auction by his dignified bearing and who in his arguments advances sound logic that cannot fail of convincing is Col. Z. S. Branson, Lincoln, Neb. Twenty-eight years has Colonel Branson been selling for the very best stockmen and real estate men of the country. Evidence of his ability lies in the fact that he still continues to sell for these men. All of the leading pure-bred horse sales held in the West the past season have been conducted by Colonel Branson. The writer has assisted in a great number of sales where Colonel Branson has officiated and we know that much of the success of these sales was due to the efforts of the master salesman. His methods are clean and honorable, his ideals high and his efforts untiring. We recommend colonel Branson.

A. L. Diehl's Hampshires.

The writer recently called on A. L. Diehl, Benedict, Neb., and wish to say that this progressive stockman has a nice lot of Hampshire swine. Mr. Diehl has been buying the best stuff offered for sale, and the most of the sows and the herd boar are among the best that we have seen to date. We are especially pleased with this boar. He is our ideal of a Hampshire. He is extra big and yet smooth, heavy boned and good footed. He is perfectly marked and we think will add some value to this herd as a sire. Some exceptionally good spring pigs are on the farm and will be sold privately. Mr. Diehl is pricing these pigs at such figures as make them bargains. The herd boar, we mention is Prince, by the Good-enough-bred boar, Pride of The West, by Majestic Boy. His dam is Lady Fullerton by Teddy R. B. He is a boar to keep in mind. When writing Mr. Diehl kindly mention The Homestead.

Browning and His Champion Herd.

The name of Browning has become so thoroughly fixed in its connection with Duroc Jersey hogs that the mention of one is really a suggestion of the other. H. E. Browning, who for several years has been on the field force of this paper as a solicitor of advertising, has found the interests of his herd to be increasing so rapidly as to demand his entire time and attention. He has therefore severed his connection with this publication and from now on will be found at Hersman, Ill., directing the affairs of the grand champion herd of Duroc Jerseys. This paper has regretted very much the turn of affairs which make this course seem necessary. During the entire time of Mr. Browning's connection with us his work has alike been satisfactory to this publication and to its patrons. His thorough knowledge of Duroc Jersey breeding, of the affairs of breeding and handling hogs and his familiarity with men of force in Duroc Jersey circles made him well fitted for the important position he occupied. We are just in receipt of a letter from Mr. Browning in which he says that he is getting together the strings which he has so long trusted to other hands and will now give his herd such attention as to push it still further to the front. He finds many things to do and takes a great deal of enjoyment in doing them. We shall look for the Browning herd at the fairs this fall and expect it to show even greater merit and bloom than in former years. Any reader of this paper who is interested in Duroc Jerseys will do well to get in correspondence with H. E. Browning, Hersman, Ill.

Bay's Offering of Good Short-horns.

Some decidedly good propositions will be offered in the Short-horn sale of John M. Bay, Aledo, Ill., Wednesday, June 4th, the day following the Stanton sale at Wheaton. Mr. Bay has cataloged forty head, thirty females and ten bulls over one-half of which is of the best Scotch breeding. There are eight young bulls in the sale, all the get of Challenger, the strong Scotch son at the head of Mr. Bay's herd and the breeder and the farmer will find among them plenty of good material. The female portion of the offering contains much that is very attractive and the party wanting good Short-horns should not overlook the sale. Mr. Bay is selling a well-bred, dependable lot of cattle, does not expect anything but reasonable prices and it would seem as though the discriminating buyer could secure cattle well worth the money. Aledo is easy of access, being on a branch of the Burlington and can be reached over the Rock Island Southern Interurban from Galesburg, Monmouth or Rock Island. The sale will be held in town.

C. B. Powers' Poland Chinas.

One of the real good Poland China breeders of Nebraska is C. B. Powers, Aurora. Mr. Powers has raised a lot of the real good stuff of central Nebraska the past several years, and this year has a wondeful bunch of stuff and from only a few sows. Mr. Powers has raised some of the best boars grown in the West the past few years. Among them was Expansion Again, a boar that reached as great a weight as any boar for his age that we know of. He died before two years of age, and had only sired a limited number of pigs, for the reason that he was a late May pig and the first season was not used, and the later season died when he should have been coming right into his best. However, there are a number of sows on the farm by him, and they are unusually good. A younger boar and one that appeals to the writer very much is a son of Expansion Again and out of the great breeding sow, King's Giantess by Long King. King's Giantess is one of the very best Long King sows that we know of and is a great breeder. She is also the dam of the noted Powers boar, Big Bone. Big Bone is one of the great big kind, and breeds extra well. He is the sire of a greater part of the spring crop on the farm just now. Big Bone gilts bred to Again Expansion, the younger boar that we just mentioned, should be good property, and they are the sort that may be offered in the winter. However, Mr. Powers is planning on making a fall sale, and at that time will dispose of the greater part of the spring crop. Again Expansion is a boar that we look to win at the state fair this fall, and we believe that he has a mighty good prospect for champion honors. He was second prize in his class last fall, and had many friends for the first place. Keep this good herd in mind and watch for further announcement of the fall sale.

Thos. F. Miller's Polands.

Readers of The Homestead will be glad to know that the veteran breeder of big Polands, Thos. F. Miller, York, Neb., has a fine lineup of spring pigs on his finely appointed stock farm. Without question Mr. Miller is one of the best stockmen in Nebraska today. His herd of Poland Chinas has contributed much to the popularity of the Nebraska hogs, and the crop on the farm this year give much promise of eclipsing any previous crop from the famous Cedarbank Farm. This statement means much to those that have kept in touch with the former offerings of Poland Chinas raised on this farm, but the writer is familiar with the stock produced and we make the assertion without hesitation. The crop this season is simply one of the very best lots of 125 spring pigs that we have ever seen on one farm, and they are from such large, uniform litters. Many of the sows are raising upwards of nine pigs each, which is, of course, most unusual for any kind or breed. The pig crop is sired for the most part by a son of Long Chief 2d, called Ringmaster. This boar has certainly bred well. Another son of Long Chief 2d and out of a daughter of Big Bone is the sire of quite a number and we wish to say that he is an extra good individual and his pigs promise extra well. Another boar is a son of Big Price and out of a daughter of Long King. This boar is breeding well, especially his gilts look well, but we are not so well pleased with him as the boar just mentioned before him. The boar that the writer likes above all the rest of the boars in the herd is one from the Mouw herd, and is just now a year old. He is sired by Black Big Bone and out of the best producing sow on the Mouw farm in recent years. The writer believes that this will make one of the best boars within the state. and only one or two other yearlings we have seen please us so well. One or two litters are by him, and they are among the very best on the farm. Mr. Miller will probably sell the boars from the herd at private treaty and those of our readers interested in the real, big Poland Chinas should write soon for a description of anything they wish. When writing kindly mention The Homestead.

Schmieder's Poland Chinas.

One of the best herds of Poland Chinas that will be found in northwest Iowa is that of John Schmieder, Remsen, and he has a splendid crop of 160 head of spring pigs this season. The boar that Mr. Schmieder is using at the head of his herd is Blue Valley Chief, a son of Combination and he in turn was a son of Blue Valley Quality. His dam is Nebraska Girl by Nebraska Hadley, and you can take it from us that here is one of the best boars today in western and northwestern Iowa. He is a hog that has plenty of size, a wonderfully thick and well-balanced boar from end to end, and for a hog of his size has a splendid head and ears. He is a masculine boar in character, a good-boned fellow and walks off like a cart horse. This hog was a first-prize boar at the Nebraska State Fair in the under-six-months class and he was a fist-prize winner at the Interstate Fair last fall. In fact you will not find many boars at the heads of herds that will compare with this boar. About half of his present spring crop is sired by him and he also has eight good fall boars that are also sired by him. These fall boars are out of daughters of Dorr's Expansion, Big Smoke and Big Tom. A man who is wanting a good fall boar can buy one of these and get him right and there is not a one in the bunch that will not make a good boar to head a herd. The remainder of his spring crop are sired by Schmieder's Big Ex and Paney's Defender, the latter hog being a boar that he and Henry Dorr purchased at the Nebraska State Fair last fall. He has a nice litter of seven by the old boar and out of Dude's Queen, the second-prize sow at the Sioux City Fair last fall and another good litter that is out of a daughter of Blue Valley Chief that was third-prize sow at the Interstate Fair last year. This litter is sired by the first-prize fall yearling boar he bought of Lingford last year. He has a nice late litter of six pigs by Dorr's Expansion and out of Evergreen Lady, the dam of Caverly's sensational boar back East. Just now Mr. Schmieder will sell those good fall boars and anyone wanting one should order right away, because now is the time to buy them. When writing him kindly mention The Homestead.

Henry Dorr's Poland Chinas.

One day recently we visited the herd of that well-known breeder, Henry Dorr, Remsen, Iowa, and found he had 170 head of spring pigs on hand and he always has some good ones. When it comes to breeding Poland China hogs they will have to take off their hats to Henry Dorr, because he not only breeds the kind they are all wanting, but he also breeds the kind that brings the money over the scale. His present spring crop is sired by his famous old boar, Dorr's Expansion, a boar that Mr. Dorr says will stay on his farm as long as he lives, and the old boar is still looking well and doing good service. Here is a boar that has helped to make the Dorr herd famous throughout the East and the West and he is one of the great breeding boars today that will be found throughout the West. The remainder of his pigs are sired by D.'s Monarch, a son of Golddust Hadley, Expander, a son of Long Hadley and Big Tecumseh, a son of Blue Valley Chief. He also has one litter by Columbus and a few by other boars that are out of sows he bought last winter. He has a splendid litter of eight by Dorr's Expansion and out of a daughter of Fesenmeyer's old A Wonder. Mr. Dorr has a number of good fall boars that he is now offering for sale and he wants to dispose of these as soon as possible in order to make room for his spring crop that is now coming on. He has two good herd boars that he will also offer for sale, just because he has too many boars in the herd. One of these is Expander and the other is Pawnee Defender. Either one of these will make a good herd boar for some man who is looking for a herd header. The latter boar is a yearling and will make a wonderfully big hog and the man who is looking for a boar of this kind should get in touch with Henry Dorr right away. He also wants The Homestead readers who want a good fall boar to write him at once. Kindly mention this paper when corresponding with him.

Shetland Ponies.

In an advertisement on page 24 Mrs. H. E. Simon announces that she has for sale Shetland ponies of all ages and that reasonable prices will be quoted on them. Address inquiries to Mrs. H. E. Simon, Route 3, Burlington, Iowa.

Angus Bulls for Sale.

On page 27 H. R. Davis, Corning, Iowa, is advertising some splendid young Aberdeen Angus bulls for sale and some of these are good enough to head herds. He is offering a good two-year-old bull sired by Blackbird Dan, a son of the great Black Woodlawn. This bull is out of a daughter of Gay Blackcap and is a well-bred fellow and will make a good breeding bull. He also offers three nice yearling bulls, all sired by Sir Blacknight, a double-bred Blackbird bull. He is pricing these bulls where they will sell and if any of our Homestead readers want one they can buy them right. Write Mr. Davis about these bulls at once or go and see them.

Gaffey's Chester Whites.

That well-known breeder of Chester Whites, W. E. Gaffey, Storm Lake, Iowa, has 120 head of good spring pigs far this year and about four head of fall boars on hand. The boar at the head of the Gaffey herd is Sam B., champion boar at the Sioux City Fair in 1910 and 1912, and he is the sire of many of the pigs. The others are sired by Young Sam, and he is a son of the old boar and out of the prize-winning sow at the Interstate Fair in 1910. He also has quite a few pigs by Peach-blood Chief, who in turn was out of a Chickasaw Chief sow. Altogether he has twelve litters by old Sam B., and among these are some very promising pigs. The fall boars that he has on hand are sired by Crystal Chief and he is also a Chickasaw Chief-bred boar. He will sell these fall boars at any time and later in the season he will have some good spring males to offer the trade. Remember Mr. Gaffey when you want a Chester White boar this fall.

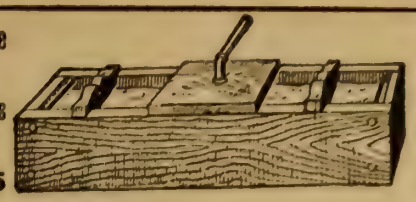
Stanton's Great Short-horn Sale.

Tuesday, June 3d, will occur at Sittyton Grove Stock Farm, Wheaton, Ill., one of the big Short-horn events of recent years. Our readers have already been informed Thos Stanton recently purchased the entire herd of George J. Sayer, McHenry, Ill., and will offer the tops at public sale next Tuesday. To the cattle he is selling from the Sayer herd Mr. Stanton has added some very strong things from his own herd, so that the entire offering falls little short of sensational in every particular. Two International champion bulls, Roan Sultan and White Star are listed and Mr. Stanton has cataloged his Browndale Sultan, the outstanding son of the champion Avondale. Show females will be offered in profusion headed by Imp. Fair Start 2d, with a bull calf at foot by Roan Sultan. The showman and the breeder will find the sale of the year while the beginner looking for foundation stock of the richest breeding and strongest individual merit can secure it at the sale. Remember the date, next Tuesday, June 3d, at Sittyton Grove Farm, Wheaton, Ill.

Poland Chinas Guaranteed Cholera Immune.

The first man to sell pure-bred swine and give an iron-clad guarantee to refund the purchase price if the animals die of cholera, is W H. Cooper, Hedrick, Iowa. Mr. Cooper is a well-known live stock auctioneer and one of the leading breeders of this class of Poland Chinas in the corn belt. He has the finest equipped swine raising plant in the state of Iowa. He has built up a business by square dealing and making good his guarantees and his yearly sales have been running from $7,000 to $10,000. We have never heard of any dissatisfied customers who have bought stock from Mr. Cooper. He is offering 100 head of spring pigs either sex, singly or in pairs or trios at $35 each or three for $100 and guarantees to refund the purchase price if they die from cholera. Their sires and dams have been immuned and these pigs have all received the double treatment. Mr. Cooper has given the double treatment enough trials during the past year to satisfy him that it is a success and is willing to back his judgment with money. The pigs are from sows weighing up to 800 pounds each and descending from the most noted blood lines of the breed. The pigs are sired by Big Expansion, an 800-pound two-year-old son of Dorr's Expansion, Big Bone 2d, a 900-pound son of Big Bone, and Chief Leader, a great young boar just past a year old and weighing 500 pounds. These pigs are ready to ship any time and are guar-

An ONLY for Service
An ONLY for Cost
An ONLY for Business
An ONLY for YOU!
ONLY $3.75



This is our 6th year in the business and ever increasing sales is the proof of its ability to do the business in the hog yard.

The time is at hand when the farmer requires just as clean water for his hogs as for the horses or cattle, and that will be conservative of the water supply, and automatic with the needs of the stock. We have all these requirements in the "ONLY" Hog Waterer. Ask for our new book, "HOG SENSE." It's FREE. Address

ONLY MFG. CO., Dept. H, HAWARDEN, IOWA.

NEXT WEEK'S SALE PROGRAM

Tuesday, June 3 — Short-horns, Thos. Stanton, Wheaton, Illinois.

Wednesday, June 4 — Short-horns, John M. Bay, Aledo, Illinois.

anteed to give satisfaction. They are all recorded and to show the reputation of Mr. Cooper's herd over a wide territory we might say, Mr. Cooper has twenty-two spring pigs already sold to go to nine different states. We have known Mr. Cooper for several years and being acquainted with his method of doing business, can say that he makes every statement good. Our readers need not hesitate in sending him their order. See his advertisement on page 26 and when writing him kindly mention The Homestead.

Col. H. S. Allen, Auctioneer.

It is with pleasure we call Homestead readers' attention to the auctioneer card of Col. H. S. Allen, Russell, Iowa, on page 24. Colonel Allen has been one of the foremost breeders of Duroc Jerseys in the West for the past twelve or fifteen years and he is now giving attention to public sales, and has cried sales in four states to the satisfaction of all his patrons. Few men have bred as many high-class Duroc Jerseys as has Col. Henry Allen, and the breed has made material advancement through the hogs that he has sent out from his herd. While he is especially well posted in Duroc Jerseys he is nevertheless posted on the other breeds and he will cry sales for anybody and everybody that wants him. He has about twenty-five sales booked for the fall and about the same number for the winter and he still has a few open dates that he will book for anybody who wants to engage his services. If you are thinking of making a sale and want a well-posted auctioneer write Col. Henry Allen and have him book a sale for you.

Motorcycle Days.

These days the motorcycle is seen frequently along the highway. The swift little machines are going back and forth on errands of immediate necessity, mercy, pleasure and business. They give most of the pleasures of automobiling at a small percentage of the cost of buying and operating a car and are becoming more popular every day on the farm as they can be used for a variety of useful purposes in addition to pleasure. Many a boy who longed to leave the farm is now perfectly contented because his motorcycle will take him to town in a few minutes and back again. One of the best motorcycles is the Harley-Davidson whose advertising is familiar to our readers. An advertisement for this company appears on page 15 of this week's issue. This advertisement shows the many prizes won by this handsome and efficient machine. The Harley-Davidson Motor Company who manufacture the machine have a very handsome catalog which they will be very glad to send our readers free, if they will write mentioning this paper.

Chicago House Wrecking Company.

The Chicago House Wrecking Company, a name which has become a household one among our readers, has ceased to exist as a name. For business reasons only the four Harris Bros., who have conducted the Chicago House Wrecking Company for twenty-five years and who still own and control it, have changed the name from Chicago House Wrecking Company to Harris Bros. Company. This business concern began operation in 1893 by making the purchase of the complete buildings of the Columbian exposition, which was at that time considered the greatest undertaking by any firm. Later they took over the buildings of the Trans-Mississippi fair at Omaha, the Pan-American exposition at Buffalo and the Louisiana Purchase exposition at St. Louis. From time to time the firm branched out in other lines until today it handles practically every known manufactured article, such as plumbing, heating, hardware, machinery, paint, harness, sporting goods, groceries, furniture, roofing, fencing, etc. The name of the business has been the direct result of giving the patron a little better bargain than could be obtained elsewhere and quality of goods beyond criticism. The new name will lack the suggestiveness of the old one, but it is the same sound, substantial concern as before.

Carey M. Jones, the Auctioneer.

In any field where there are numerous people engaged there are always certain ones that stand out prominently, no matter what the business or profession may be. This is particularly true in the auctioneering world. The profession of an auctioneer is one that calls for brains, judgment, diplomacy and aggressiveness if any degree of success is to be achieved. One gentleman who combines all these accomplishments to a marked degree is Carey M. Jones, Chicago, Ill., and as a consequence he is today at the top. His success has not been any sudden advancement, but has been justly earned by years of hard work and close application. Breeders all over the United States and Canada have come to recognize Colonel Jones as the peer of any auctioneer who has been associated with our live stock industry, and today undoubtedly has a greater number of patrons than any other auctioneer before the public. Colonel Jones is a striking example of the successful young man who applies himself assiduously to his profession. Possessing a pleasing personality, a gentleman at all times and under all conditions, having a thorough knowledge of values, a student of pedigrees, with the ability to handle his audience in a masterly and tactful manner, he combines those characteristics so needed for an auctioneer to win. The success or failure of a sale lies in the hands of the auctioneer. Probably in no other business are so many thousands of dollars' worth of property trusted to the hands of a man to be converted into cash in so short a period as are placed under the control of an auctioneer. That Colonel Jones has always demonstrated fully his ability to get for his patrons the full value of their goods is clearly proven by the fact that today scarcely any prominent sale of cattle is held without Colonel Jones being one of the auctioneers.

Red River Special Thresher.

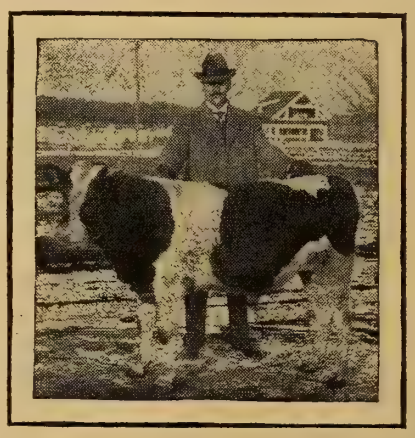
A big advertisement on page 2 of this paper illustrates the difference between the Red River Special thresher and other kinds. The pictures are apt in presenting their arguments. For sixty-five years the Nichols & Shepherd Company have been engaged in the business of producing threshing machines. They have always stood high and their machines have been of the quality that did good work economically and saved the greatest possible portion of the grain. The upper engraving in the advertisement shows very plainly why every particle of grain is saved in the Red River Special. The straw is agitated and beaten and shaken until when it leaves the thresher an absolutely perfect separation has taken place. The Red River Special is made in various sizes to suit the demands of farmers or those who wish to make threshing a special business. It is sold at reasonable prices and under a most liberal guarantee. Complete particulars may be obtained by writing to Nichols & Shepherd Co., Battle Creek, Mich.

Wixcel Automatic Hay Loader.

The modest advertisement on page 16 is a very small reference to the Wixcel Automatic hay loader and scarcely contains a hint of the excellence which that machine possesses. This season, with its present promise of hurried work throughout the remainder of the spring months, makes it necessary that every possible advantage of labor-saving machinery be taken. The Wixcel is as near an automatic loader as a machine of this character can be made. It takes hay from the swath and windrow, lifts it to the wagon and distributes it over the load. One man who has given it a complete trial says that he put up fourteen tons of alfalfa with this loader in half a day. Another states that he himself put up twenty acres of alfalfa last year and was able to use the Wixcel on days too windy to permit the use of old-style loaders. One good team operates the Wixcel anywhere except where land is very hilly or particularly muddy. Still another user of the Wixcel says that his machine saves him from $4 to $5 per day during the haying season. The Wixcel is not an expensive machine. It is a durable one and one which never fails to give satisfaction. Full particulars concerning it may be obtained by writing to Wixcel Mfg. Co., Department A, Marcus, Iowa.

The Galloway Holstein and Ayrshire Sale.

On June 19th, Wm. Galloway, Waterloo, Iowa, will hold his annual public sale of Holstein-Friesian and Aryshire cattle. The sale will take place at the farm one and one-half miles from Waterloo. The Galloway farms have made a reputation in the corn belt as a field for the production of highest quality certified milk and cream and superior butter. The animals to be offered in the sale are each and every one either producers at the milk pail or sons and daughters of heavy producers which have proven their value in a practical way. The Galloway farms are well worthy of a visit by any dairyman or farmer. Their equipment of modern farm dairy machinery and what is said to be the best cow barn in the state of Iowa would prove instructive in the highest degree. The results which Mr. Galloway is obtaining in doing a dairy business on land worth $500 per acre and upward are proof positive that there is money to be made in dairying on any land in the corn belt. There is never an excess in the supply of top quality dairy farm products. Among the Holstein-Friesians to be offered at this sale will be sons and daughters of cows having records from eighteen to twenty-six pounds of butter in seven days, as well as cows which themselves have made records. The blood of Korndyes, Pontiacs and Colanthas is prominently represented. There will also be Rag Apple, Ormsby and Segis strains in variety. Many of the females in this offering will have been bred to King Segis Pontiac Combination, the present head of the Galloway herd and said to be one of the best herd bulls west of the river. Catalogs of this sale give pedigrees and complete information. They are now ready and may be had on application to Wm. Galloway, Waterloo, Iowa. See advertisement on page 12.



T. W. Cavett's Poland Chinas.

One of the best known herds of Poland Chinas in Nebraska is the herd owned by T. W. Cavett, Phillips. Mr. Cavett is also one of the oldest breeders in the state, having bred good hogs for nearly a quarter of a century. This spring the pig crop is one of the biggest of this section, numbering a little over 125 pigs. They are from uniformly large litters and from two sires for the most part. Probably the major part of the crop is sired by Big Cloverdale, one of the really big boars, as well as one with a world of quality. He is sired by the 1,000-pound Centennial and out of the great breeding sow, Countess, by Blue Valley Exception by old Exception. Blue Valley Exception was at his time, probably the best breeding boar in the state. Big Cloverdale is certainly doing good work, and is a very fine boar. A younger boar and the sire of a part of the pigs is Long Wonder by Black Knight by Big Wonder. The dam of Long Wonder is by Shattuck's great breeding boar, Sampson, by Jumbo Jr. This young boar has done extra well as a sire, and Mr. Cavett should certainly be able to put up a good lot of stuff for his fall and winter sales. There are a couple of fall boars on the farm by Big Cloverdale and one is out of Black Cloverdale by Cloverdale Hadley one of the truly great boars produced a few years ago. The other pig is out of Graceful by Cavett's Big Hadley. The former one is the sort that pleases us the better, but they are both valuable boars and one is for sale. Should you write kindly mention The Homestead.

J. A. Jacobson's Durocs.

The writer was pleased to call on J. A. Jacobson, Marquette, Neb., a short time ago, and we wish to say that we found at this farm a very progressive stockman, and also a very fine lot of Durocs. Mr. Jacobson has had an advantage that most stockmen of the present day have not had, and that is the benefit of an agricultural college training. His neighbors that are securing stock from him are pleased that they have Mr. Jacobson in the neighborhood, and the standard of the live stock of the community has been raised very much indeed. The foundation of the herd was secured from the good breeder of Durocs, H. O. Harney, formerly of Marquette, but now of Aurora, Neb. Later additions have been made from the herds of Mr. Bayne and also from the herd of O. G. Smith & Son, Kearney, Neb., at whose last winter sale Mr. Jacobson paid the top price. The good show and breeding boar, Tony B., by Red Echo by the champion Red Knight, is in service and he is doing a lot of good work. The herd of sows are largely sired by Ambition's Col., by Prince of Cols., Mammoth Tom, one of the largest Durocs ever shown at Nebraska, Wonder Improved by Lincoln Wonder, H. A.'s Choice Goods, and Model Goods by Golden Model 2d. Mr. Jacobson has a few very fine fall boars that are being priced worth the money and readers of The Homestead that are in need of anything of this sort will do well to write Mr. Jacobson for prices. Mention The Homestead when you write.

Van Patten's Durocs.

The Homestead readers generally will be interested in learning that Van Patten & Son, Sutton, Neb., have had good success in saving a nice crop of spring pigs again this season. These pigs are from some of the best boars within the state, and should by fall develop a lot of stuff that will look mighty good to the good stockman. Model Wonder is the new boar and he gives every promise of being one of the great boars of the country. He is by Golden Model 4th and out of a dam by Wallace's Wonder by Crimson Wonder Again. The other boar is Uneeda Crimson Wonder, generally recognized as one of the very best of the breed and without question one of the very best ever produced by that world-famous mating of Crimson Wonder Again and H. H's Queen. These pigs are in the hands of as good stockmen as are in the country, and breeders and others looking for good breeding stock will never go wrong by investing in stock from this farm this season. The success of the breed in the West is due to no one's efforts more than it is to this firm. The best interest of the breed has always been fostered, and state fair champions and farmous breeding stock has been liberally contributed from the efforts of Van Patten & Son. We will have more to say of this herd shortly, and should you write for prices or description of anything, kindly mention The Homestead when doing so.

HEAVY-MILKING HOLSTEIN-FRIESIAN COWS.

Two of them go in the Galloway sale at Waterloo. See field note.

Owens Bros.' Great Short-horn Sale.

One of the oldest herds of Scotch Short-horns in the state of Iowa, is that of Owens Bros., Homestead, Iowa. For thirty-five years this herd has been recognized as one of the very best in the state. Only the very best Scotch bulls that could be obtained have been used. Their herd bulls have never been bought on the spur of the moment, but on the other hand, these gentlemen have always, when in need of a bull, spent considerable time in inspecting every bull they deemed eligible to head the herd and then the one that they considered the best type to cross on their females was purchased. Price has never been a barrier, the only requirement being a good bull. This has been the secret of their success in building up a great herd of Scotch Short-horns. Their cattle have never been pampered or kept in show condition. By this we do not mean that their cattle are kept thin in flesh, but on the contrary they have fed their cattle with an eye to their future usefulness. The eighty Scotch Short-horns that will sell in their sale on June 12th are in the best possible condition to do good for the purchaser. They are thrifty and carrying plenty of flesh for breeding cattle. Twenty bulls and sixty females have been listed for this event. Among the bulls are some extra good ones, in fact, there will be bulls good enough for the best breeders as well as bulls suitable to use in breeding market-topping steers. Courtier's Crown is a three-year-old red bull that has been used some in the herd. His calves are showing up good and while he has not been used as much as Messrs. Owens would like to have used him, as many of the females in the herd are closely related to him, we want to say he will prove an excellent proposition as a bull to head some good herd. He is sired by Courtier 5th, an extra low-down, thick Scotch bull used in the Owens herd very successfully. His dam is a Queen of Beauty cow sired by Baron Kear 2d, while the next six sires were bred by Amos Cruickshank. This bull will weigh 2,200 pounds in nice breeding condition and is a smooth, mellow, good ribbed bull with plenty of Short-horn character. Courtier's Hero is another son of Courtier 5th and out of a Queen of Beauty cow sired by Nonpareil Prince, a son of the $4,000 bull, Nonpareil King. This is a very thick, smooth, wide-backed bull that many will like sale day. Scottish Secret is an August calf by Scottish Victor, a grandson of the $4,000 Nonpareil King, while his dam is Baby Pride 7th, a Queen of Beauty cow by Baron Secret with such sires as Imp. Harvester, Imp. Goldstick, Imp. Baron Surmise, Imp. Stanley, all of which were bred by A. Cruickshank, found in the list of sires. Scottish Chief is a July calf sired by Scottish Victor and out of Baby Pride 5th by Cumberland Chief. He also descends from the Queen of Beauty family with practically the same list of renowned sires as Scottish Secret. Scottish Secret and Scottish Chief are an extra good pair of low-down, thick calves with good lines, good spring of rib and plenty of depth. They look like developing into high-class bulls. Victor Robin is a Marr Flora bull sired by Scottish Victor that will make a very large bull. He is a big, strong, heavy-boned fellow and has lots of scale. Sultan's Magnate is a good calf consigned by J. A. Daniels. He is sired by Monarque Sultan, a grandson of the celebrated Whitehall Sultan, his dam is by Golden Crest and grandam Imp. Blossom by Matadore. W. R. Hakes is consigning Sultan D., a March yearling by Scottish Sultan, a grandson of Whitehall Sultan, while the grandam is the imported cow, Scottish Countess. There are a number of other bulls worthy of mention and we urge anyone interested in a good Short-horn bull to attent this sale. The females consist of twenty cows with calves at foot, a number of two-year-old and yearling heifers, all of which are a high-class lot and in excellent breeding condition. The cows not having calves at foot and heifers of breeding age are safe in calf to the herds bulls, Cumberland Dictator by Burwood Royal, and out of Gladiolus 2d by Cumberland's Last, Sultan Goods by Missies' Sultan out of Sweet Lavender 2d by Good Choice and a couple of good bulls of their own breeding. Cumberland Dictator has developed into a wonderful massive thick bull and looks like he would make a great sire. In our next issue we will give more particulars regarding the female end of the offering. These gentlemen have issued a handsomely illustrated catalog that will be sent only on application. If interested address Owens Bros., Box H, Homestead, Iowa, and they will be pleased to mail you one. The sale will be held at the farm four miles south of Homestead and they have made arrangements for the two fast trains, No. 8 and No. 17 on the Rock Island to stop at Homestead on the morning of the sale. This will make it especially convenient for those attending the Howell Rees & Son's sale at South Omaha, on June 11th, to attend the Owens sale. See advertisement on page 28.

BEATRICE AND C. C.

BELLOWS BROS.

10th Annual Sale of

Scotch Bred Shorthorns

MARYVILLE, MO.,

TUESDAY,

JUNE 10, 1913

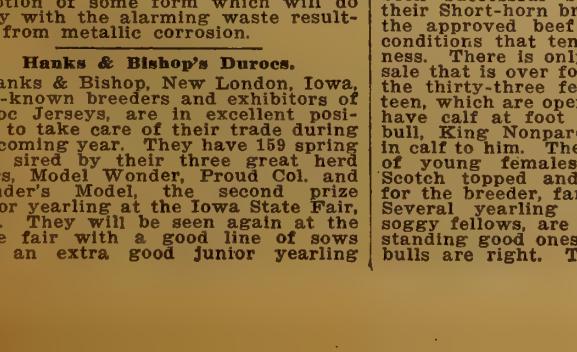
COLUMBIA 12 AND C. C.

49 HEAD--12 BULLS, 37 FEMALES--49 HEAD

The concentration of Choice Goods blood through his sons, Good Choice (sire of Diamond Goods) and Best of Goods with much of the blood of Whitehall Sultan and Hampton's Best enables us to offer twelve bulls the superior of which have not been seen in a sale ring.

37 COWS AND HEIFERS--17 CALVES AT FOOT

A draft of superior Scotch females representing blood that has done so much toward the advancement in improved Short-horns. Sinnissippi Victoria by Imp. Red Knight; Parkdale Victoria by Best of Goods with C. C. by Diamond Goods; Sweetheart 2nd by Good Choice with C. C. by Hampton's successor; Choice Victoria by Good Choice with C. C. by Sultan Choice; Beatrice by Banker's Victor with C. C. by Superb Goods, others as choicely bred and with as superb character are by such sires as Hampton's Best, Imp. Fancy's Pride, Imp. Blythe Baron, Clipper's Czar, Ringmaster and other noted sires. See the great string of calves by Diamond Goods, as there are herd headers among them; also females bred to him. Others bred to Sultan Supreme, a great son of Double Dale, Secret Sultan, Diamond Abbot and Cornerstone.



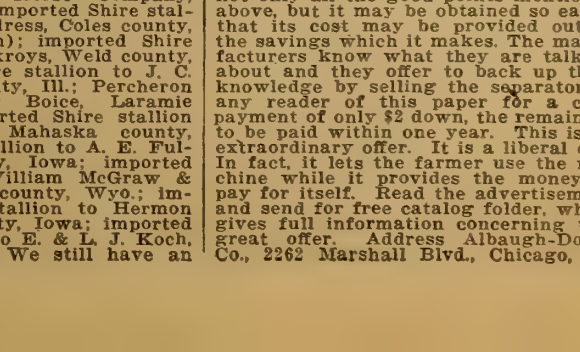
PARKDALE VICTORIA AND C. C.

We will gladly send catalog on request, mentioning The Homestead.

BELLOWS BROS.

MARYVILLE, MO.

AUCTIONEERS:
Woods, Jones, Reppert and Hosmer



HAMPTON'S MARY AND C. C.

Improvement in Quality of Iron.

In the late nineties, the attention of the United States Department of Agriculture was drawn to numerous complaints on the part of farmers that modern iron and steel were of very poor quality—that nails, barbed wire, galvanized roofing, etc., rusted out far more rapidly than the old iron of half a century ago. Some landowners could point at barbed wire fences which had been erected soon after the invention of this useful form, and which were still in good condition, while on the same farm later purchases of wire has been replaced two or three times because of the rapid corrosion of the material. Almost everyone is familiar with the great difference between the old wrought nails of the early nineteenth century and the handsome product of present-day machines. Buildings seventy-five years old have the greater portion of their nails in good condition, while those erected within fifteen or twenty years have very few not severely rusted. The result of numerous experiments and analysis goes to show that the old iron was generally of a high degree of purity, while modern steel contained a relatively larger admixture of substances like manganese, carbon, copper, etc., having a widely different electrical quality from that of iron, and which as a result tended to set up those electro-chemical actions which are involved in the formation of rust. The final decision was embodied in a report, the net result of which was the statement that iron for all exposed situations ought to be the purest obtainable. The proof of this theory has been demonstrated in practice. For quite a number of years it has been possible to obtain, at slightly higher price than that of the ordinary product, iron of a degree of purity never attained before; and this material, in the form of road culverts, irrigation pipe and flumes, roofing, etc., is showing itself to be of the very greatest practical value, as it is but little harmed by rust. Taking into consideration the expense and annoyance of replacing metal work, after only a few years of service, it is probably true that this new iron product more than justifies its cost; and it seems that the conditions of the future will compel the adoption of some form which will do away with the alarming waste resulting from metallic corrosion.

Hanks & Bishop's Durocs.

Hanks & Bishop, New London, Iowa, well-known breeders and exhibitors of Duroc Jerseys, are in excellent position to take care of their trade during the coming year. They have 159 spring pigs sired by their three great herd boars, Model Wonder, Proud Col. and Wonder's Model, the second prize junior yearling at the Iowa State Fair, 1912. They will be seen again at the state fair with a good line of sows and an extra good junior yearling boar sired by Proud Col. This firm has never made any pretentious claims before the shows, but after the ribbons are tied they usually have their share and they are won on stock of their own breeding. For the past five years they have been consistent winners at the Iowa State fair, having won championships and grand championships. They have nothing to sell at present, but a little later on will start an advertisement in The Homestead, at which time we will give more particulars regarding this herd.

Whitsitt's Twenty-Fifth Annual Sale.

At Prairie Heart Farm, Preemption, Ill., Friday, June 13th, Whitsitt Bros., will make the twenty-fifth annual offering of Short-horn cattle that has been presented to the public at that pioneer breeding establishment. There are few herds in the country today that can announce any such number of public sales. For nearly half a century Short-horns have been bred upon Prairie Heart Farm, and during a greater portion of that operation were under the critical and progressive direction of Benjamin Whitsitt, long one of the best known Short-horn breeders and all around cattlemen in the middle West. The first Short-horn cow that ever came into Mercer county, Ill., was brought there by the father of Ben Whitsitt, and from that time down to the present day the reds, whites and roans have been bred upon the Whitsitt farm, the business having been conducted for a long time under the firm name of B. Whitsitt & Sons. A few years ago the senior member of the firm decided to relinquish the burdens of business and the herd passed under the management of the sons. The thorough training received at the hands of their father, together with an inherent love for good cattle, made them particularly fitted for the work, and the cattle to be sold June 13th will demonstrate that they are successfully carrying on the breeding operations at Prairie Heart Farm. Fifty-one head have been cataloged, thirty-three females and eighteen bulls, and the buying public will find it a class of cattle that will prove satisfactory. The Whitsitts have always been successful beef producers, and their Short-horn breeding cattle are of the approved beef type, raised under conditions that tend to future usefulness. There is only one animal in the sale that is over four years old, and of the thirty-three females all but fourteen, which are open heifers, will either have calf at foot by the good Scotch bull, King Nonpareil, or else be safe in calf to him. They are a working lot of young females, both Scotch and Scotch topped and will make money for the breeder, farmer and ranchman. Several yearling Scotch bulls, deep, soggy fellows, are listed, that are outstanding good ones, while the younger bulls are right. This is a lot of cattle that deserves consideration. Messrs. Whitsitt are not looking for high prices, but feel certain that those who attend the sale will be pleased with the cattle. The advertisement appears on page 24. Look it up and send a copy of the catalog to Whitsitt Bros., Preemption, Ill., mentioning The Homestead when you write.

Truman's Recent Sales.

Manager John G. Truman of the Pioneer Stud Farm, Bushnell, Ill., writes: "Our W. E. and H. W. Truman sailed on the Mauretania May 21st for their regular annual visit to the old homestead. They will visit the leading shows of England, France and Belgium for the sole purpose of obtaining the very best specimens of stallions and mares for our business this fall. The trade for strictly high-class stallions still continues good. Among our numerous sales made the past month not previously reported are the following: Imported Shire stallion to Dale Bros., Bureau county, Ill., (the second stallion we have sold them); imported Percheron stallion to Melvon Maroney, Harrison county, Mo.; imported Shire stallion to Dunham Bros., Louisa county, Iowa, (the third stallion we have sold them); Percheron stallion to C. F. & C. D. Davis, Hamilton, county, Ind.; imported Shire stallion to those enterprising breeders, I. J. Swain & Sons, Mills county, Iowa; imported Percheron stallion to L. E. Sims, Decatur county, Iowa; imported Percheron stallion to J. M. Myers, Edgar county, Ill.; imported Shire stallion to the Woodland Pioneer Shire Horse Company, Decatur county, Iowa, their third stallion; imported Shire stallion to R. I. Fuller, Linn county, Mo.; imported Shire stallion to Calvin Boord, Decatur county, Iowa; imported Shire stallion to John Freeman, Meagher county, Mont.; imported Shire stallion to R. W. Taylor, Humboldt, county, Iowa; imported Shire stallion to Cline & Fisher, Hamilton county, Ind.; imported Percheron stallion to Minooka Percheron Horse Company, Grundy county, Ill.; two shire stallions to E. T. McCarty, Laramie county, Wyo., (third stallion); imported Percheron stallion to Avon Twentieth Century Percheron Horse Company, Fulton county, Ill.; imported Shire stallion to Russell Childress, Coles county, Ill., (second stallion); imported Shire stallion to Amos Ackroys, Weld county, Colo.; imported shire stallion to J. C. Hall, La Salle county, Ill.; Percheron stallion to Edgar Boice, Laramie county, Wyo.; imported Shire stallion to A. T. Wheeler, Mahaska county, Iowa; Percheron stallion to A. E. Fuller, Howard county, Iowa; imported Shire stallion to William McGraw & Company, Laramie county, Wyo.; imported Percheron stallion to Hermon Koth, Clayton county, Iowa; imported Percheron stallion to E. & L. J. Koch, Lee county, Iowa. We still have an extraordinary fine collection of imported Shire, Percheron and Belgian stallions which we are offering at attractive prices in order to make room for our regular summer importations."

Aberdeen Angus Bull Bargains.

Our readers who contemplate the purchase of Aberdeen Angus bulls will be interested in the advertisement of W. B. Seeley, which apnears on page 27. At the present time that gentleman has for sale less than a dozen bulls ranging from nine to twelve months of age. As he is planning to be away from home part of the summer he will be glad to dispose of the entire surplus stock of young bulls before leaving, and for that reason will make some especially attractive prices. It will be recalled that the Seeley herd is an old, well-established one which, for several years, made highly successful rounds of the state fairs and which has been producing cattle of the highest quality. A good share of the young bulls offered are the get of Clansman Chief 2d and belong to some of the more popular families. Clansman Chief blood has stood the test of time. Old Clansman Chief was one of the greatest bulls ever used in Iowa and left to his credit sons and daughters that have gone into the very best herds. Our readers should not delay writing for prices and descriptions of the bulls in question. Address W. B. Seeley, Mt. Pleasant, Iowa.

Are You Saving Cream Profits?

It is a deplorable fact that, although butter making may under favorable conditions be one of the most profitable departments in the operation of a farm, the other extreme is that it may very easily be a profit-losing division. Whether it operates at a profit or at a loss depends largely upon whether the cream is closely gathered. A good cream separator, one which runs lightly, is easily cleaned and skims closely, will save its price every year on any farm on which a dozen cows are kept. The attention of our readers is called to the advertisement of the new Butterfly cream separator, which will be found on page 12. This separator has not only all the good points mentioned above, but it may be obtained so easily that its cost may be provided out of the savings which it makes. The manufacturers know what they are talking about and they offer to back up their knowledge by selling the separator to any reader of this paper for a cash payment of only $2 down, the remainder to be paid within one year. This is an extraordinary offer. It is a liberal one. In fact, it lets the farmer use the machine while it provides the money to pay for itself. Read the advertisement and send for free catalog folder, which gives full information concerning this great offer. Address Albaugh-Dover Co., 2262 Marshall Blvd., Chicago, Ill.

Bellows Bros.' Short-horn Sale.

The offering of forty-nine head of Scotch-bred Short-horn cattle which will be made by Bellows Bros., Maryville, Mo., on Tuesday, June 10th, is such that every lover of good cattle should be deeply interested. By the concentration of certain lines of blood with upwards of thirty years' experience in breeding for a superior type of beef animal enables them to so mate their cattle that the best results are obtained. Of the twelve bulls they sell, six are sons of Diamond Goods, others carry a goodly amount of Choice Goods and Whitehall Sultan blood and none better is known. It is an opportunity seldom equalled to select herd-header material fit to head the very best herds. The thirty-seven females, seventeen of which have calves at foot, are such that the most discriminating judges of good beef cattle will be pleased. There is herd-header material among the calves and there are as choice young females sell-at foot as one finds. It is an offer of superbly bred Scotch females with such choice individual merit and character that they cannot fail to be attractive in any herd to which they go. The fact that all but three not of breeding age, are bred to the Bellows' herd bulls adds greatly to their value. Diamond Goods probably the peer of any living descendant of Choice Goods is the sire of many of the calves at foot and a dozen or more females are in calf to his service. Others are bred to Sultan Supreme, a great son of Double Dale, Secret Sultan, Diamond Abbot and Cornerstone. The Bellows Bros. herds have been drawn on for some of their best as is seen in the two Victorias, Sinnissippi Victoria, by Imp. Red Knight and her daughter, Parkdale Victoria by Best of Goods. No better little family is found. Sinnissippi Victoria has a red bull calf at foot by Diamond Goods, her daughter has a red heifer calf at foot by Diamond Goods and a more valuable pair would be difficult to find. They have about all that is desirable in good Short-horns. Sweetheart 2d by Good Choice is one of the plums, being by the same sire and out of Modesty, the grandam of the great Diamond Goods. This is the family the late Colonel Bellows prized most highly and rightly too, as is seen by the stock produced. Sweetheart 2d sells with roan cow calf at foot by Hampton's Successor. They are a pair that will please those looking for as good as is found. Choice Victoria by Good Choice, is one of the valuable things of the sale. Her grandam, Imp. Victoria Mary, was bred by Dean Willis and the next six dams were bred by A. Cruickshank. She has red roan cow calf at foot by Sultan Choice. Emma Belle, a two year old by Standard Goods, is a strictly choice Marr Emma, her grandam and four succeeding dams being bred by Mr. Marr. She is in calf to Diamond Goods since October 22d, and should be appreciated, for her character, general conformation and breeding is all that could be desired. Columbia 11th, 12th and 13th are three choicely bred things tracing close up to Imp. Columbia 2d, bred by Mr. Campbell who also bred seven other dams in their pedigrees. Columbia 11th and 12th have heifer calves at foot by Diamond Goods and are rebred since last fall to the same bull which adds greatly to their value. Queen of Beauty 20th by Best of Goods, is from a family that has produced many of the best cattle found in Bellows Bros.' herd and is the first daughter of Barmpton's Queen of Beauty that has been allowed to leave the herd. She is the dam of Cornerstone, one of the top bulls of the sale. Lovely of Parkdale 3d is one of the best daughters of Good Choice that has left the herd and as she is out of a good daughter of Hampton's Best the sire of Bellows Bros.' show cattle at the World's Fair she represents as good as they have produced. She is soon due to calve to service of Diamond Goods. Her dam, Lovely of Parkdale, is listed and she also is due to calve soon after the sale to the service of Diamond Goods. Beatrice, a massive roan cow by Banker's Victoria, with white heifer calf at foot is a short-legged cow, deep and thick and the heifer calf by Superb Goods is a show prosposition that shows the value of its dam as a producer and incidently that the man who buys Cornerstone will get a breeding bull that he may rely on. Rain Drop, a two-year-old daughter of Ringmaster, in calf since October 1st to Diamond Goods should be appreciated. Mint Drop 15th a white four year old sired by the Clarke bull, Carlogie Knight with roan bull calf at foot by Diamond Goods is a large cow that produces extra good calves. The youngest thing in the sale is Diamond Lady 2d, one year old sale day got by Diamond Goods. She is a beautiful roan and were she of right age some showman should buy her as she is right. There will not be another such an opportunity offered soon to buy such high-class females whose usefulness is apparent by the great array of high-class calves and everyone interested in good Short-horns should arrange to attend the sale. The Bellows Bros. invite you whether you buy or not as they desire that you become familiar with the work they are doing in breeding up-to-date Short-horns. They want to send you a catalog and will on receipt of your request mentioning this paper. See page 23.

Wendt's Duroc Jerseys.

On this page W. J. Wendt, Remsen, Iowa, is advertising twenty head of choice Duroc Jersey fall boars for sale and he is offering these from $25 to $50 and he has some very good ones. Among these are quite a few that are good enough to head good herds. The Wendt herd is one of the oldest and one of the best in the state. These fall boars are sired by C. Indicator 118489, a grandson of old High Chief, and this hog has proven himself to be a good breeding boar in the Wendt herd. These boars in question are out of daughters of Crimson King, Grand Champion, Belle's Wonder, Wonder C., Chief Bunker, High Model II, and other good sows that he has in the herd. Mr. Wendt is desirious of closing these boars out as soon as possible and he will therefore close them out as soon as he can, and the man that orders first will get the worth of his money. He has 130 spring pigs on hand this season and he is also booking orders for these to be shipped later in the season. He will make special prices to anybody taking two or more of these fall boars if they order right away. When writing Mr. Wendt kindly mention The Homestead.

Frazer Bros.' Big Polands.

The writer recently visited Frazer Bros., Waco, Neb., and we were much pleased with the nice outlook they have for the season's hog business. They have a nice lot of spring pigs, as well as a few extra good fall gilts. These gentlemen have been breeding big Poland Chinas for the past several years, and they have been among the most careful buyers that we have known. They have selected only such hogs as conformed to their type, and that come of that sort of stuff. They now have a herd that is right up to the best of them. As good a sow as we have seen this spring is in this herd and is sired by the 1,050-pound Long Chief. She is also a breeding sow, and her spring litter by Big Jumbo are hard to equal. Big Jumbo is one of the main herd boars in this herd, and sure one of the big and the good boars of the country. He is a son of Wade's Jumbo and for heavy bone and good legs is hard to fault. The other boar is Orient, by Blue Valley and out of a daughter of First Look. This boar was bred by Thos. F. Walker & Son, and was one of the best boars that they sold last season. He is also siring a good lot of stuff. They have fourteen pigs sired by the champion Columbus and they are as good Columbus pigs as we have seen for their ages. These gentlemen will offer their spring boars at private sale a little later on. In fact, they will b ok orders for them now, and those of our readers looking for this sort of stuff will do well to write these gentlemen. Orient would be sold, as they do not wish to keep over the two old boars, and while he is not one of the cheap sort, yet he will be sold at a price that is a bargain.

Rees & Son's Short-horn Sale.

In last week's issue we reviewed the young bulls that will be offered by Howell Rees & Son in their forthcoming sale at South Omaha, Neb., on June 11th, and this week we will tell our readers of some of the good females that will be included in their sale. There will be about thirty-five or thirty-seven of them in all and the greater number of these will be Scotch cattle. Nearly everything they will offer will be sired by a noted bull and in many cases will be out of well-known cows. Individually and collectively it is a splendid offering from one end to the other. Ten or twelve head will have calves at side of dams, the greater number of which will be sired by their noted show and breeding bull, Ruberta's Goods. One or two cows will have calves by their new bull, Whitehall Rosedale, and one will have a calf by Victor Sultan. All of the females in the sale sired by Ruberta's Goods that are old enough will be bred to Whitehall Rosedale, and here is a line of breeding that is destined to make a mark with Short-horn breeders throughout the central West. This bull is a son of that sensational show and breeding bull Avondale, and he in turn is a son of that phenomenal sire and grand champion winner Imp. Whitehall Sultan. No bull used in this country during the past quarter of a century has done ore to place the Short-horn breed in the forefront than has Whitehall Sultan. His sons and his grandsons all over this country, heading the very best herds in the land, have done, and are doing wonders today in the production of the highest type of cattle, and Short-horn history would be sadly incomplete were it not for this great sire and his get. Whitehall Rosedale is a grandson of the old bull and is one of the most promising herd bulls we have seen of late years here in the West. In combining the blood of the Choice Goods who was last used in the Rees herd and through his grandson, Ruberta's Goods, who is still doing service in this herd, you are getting a commingling of the blood of the two greatest sires and the two greatest show winners that have been used in this country in the past quarter of a century. The great Choice Goods was unquestionably the greatest show winner since the days of Young Abbotsburn, and his sons and his grandsons are today heading many of the greatest herds in this country. In no other sale to be held this summer will you find more of the blood of these two noted sires as you will find in the Rees sale. Included will be some of the choicest show heifers they have in the herd. Among these is Ruby's Goods, that splendid red yearling heifer by Ruberta's Goods, that was a first-prize winner at Denver, Topeka, Oklahoma and Hutchinson. She is a full sister to the Frank Harding heifer that brought $500 last year. Sylvia Goods is a roan and is also a daughter of Ruberta's Goods, and she will show as a two year old this fall. She sells with a nice roan bull calf at foot and she is rebred again to Whitehall Rosedale. She was a first-prize heifer everywhere last year except the Royal and Denver, where she was third and second respectively, and she is right to go on again the coming fall. June Goods is another choice heifer sired by Ruberta's Goods that was a first or second-prize heifer everywhere last year except the Royal, where she stood third, and she is one of the choice young things they will sell. Among the many great cows they are listing for this sale is Lady Violet, a three-year-old daughter of Ruberta's Goods, and out of Lady Violet 3d by Imp. Choice Goods. She is a full sister to the heifer that topped their sale last year at $600 and she is one of the very choicest cows in their sale. She will calve about sale time. One of the good Cruickshank Secret cows they are selling is a daughter of Banker's Victor, a bull used successfully at the head of the C. C. Norton herd, and she has a nice heifer calf at foot by Ruberta's Goods. Silver Charity 2d is a good four-year-old cow also bred by Mr. Norton, and she is sired by a son of Banker's Victor, and she belongs to that celebrated Sweet Charity family, that proved such a wonderful breeding type in the Norton herd. She has a good young bull calf at foot by Ruberta's Goods. Princess Goods is a choice two-year-old heifer sired by Ruberta's oGods. She is a richly bred Orange Blossom and she is safe tin calf to Whitehall Rosedale. Victoria Maid is a nice red heifer by Ruberta's Goods, and out of Sunny Maid 2d by Imp. McNaughton. She is a Cruickshank Secret and she is also safe to Whitehall Rosedale. Ramsden Orange Blossom is a six-year-old cow by Pride Ramsden, and is due to calve about sale time to Ruberta's Goods. She is a richly bred Orange Blossom and is the dam of one of the best young bulls in the sale. Orange Lynette is another good six-year-old cow sired by New Year's Day and out of a daughter of Duke of Oakland 2d. She is a Duchess of Gloster and she sells with a red bull calf at foot by Ruberta's Goods and is rebred to the same bull. Countess Sultan is a three-year-old daughter of White Sultan, a son of Imp. Whitehall Sultan that sold to J. A. Tittemore, Wisconsin, for $2,750 and is now in use in the C. A. Saunders herd at Manilla, Iowa. She sells with a roan January heifer calf at foot by Ruberta's Goods. Lady Marengo 2d by Old King Champion is another of the good cows that will be offered and she is due to calve in December to Ruberta's Goods. These are just a few of the best they will offer. A strong line-up of young Scotch bulls, good enough to head herds makes up the catalog list. Send for it at once and kindly mention The Homestead.

Twenty-fifth Annual SHORT-HORN SALE

At Prairie Heart Farm

Preemption, Illinois, June 13

51 HEAD ---18 BULLS--- 51 HEAD

An offering that will please the buyer

SOME of the best cattle ever produced at Prairie Heart Farm, where Short-horns have been bred for 50 years, are included in the sale. Thirty-three females are cataloged, 14 of them open heifers, and all the balance have calves at foot by King Nonpareil, or are bred to him. Only one female in this offering is over four years old. All young and workers. 18 GOOD BULLS, including several Scotch-bred herd-heading propositions, are listed. Bulls for the breeder, farmer and ranchman. The beef type. Send today for the catalog and arrange to attend the sale. Mention The Homestead and address

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Preemption is in Mercer county, on Sherrard branch of Rock Island. Parties will be met at first crossing south of Southern Junction on Rock Island Southern Electric.

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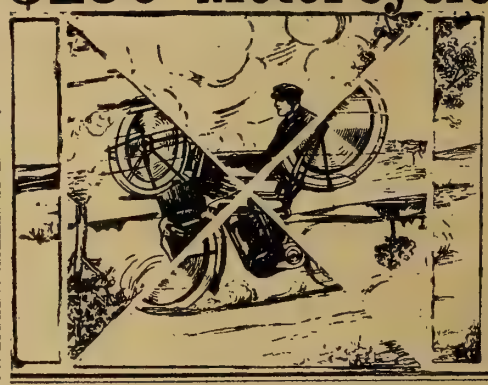

Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

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ALL-SCOTCH SHORT-HORN SALE
SOUTH OMAHA, NEBRASKA,
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HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 100 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

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THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

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SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH - - - - NEWTON, IOWA

16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
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LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
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JUST now offers some very choice Short-horn bulls, three two year olds, seven yearlings. Pure Scotch and Scotch-topped breeding. Come see them.
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SHORT-HORN BULLS by the great Baron Sultan. These bulls are very choice, yet we name farmers' prices as we wish to close them out soon.
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A. B. HOLBERT, Prop. GREELEY, IOWA

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12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.
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NEW **Importation Arrived April 23rd,** and is now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.
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A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address
Henry Lefebure - - - - - **Fairfax, Iowa.**
Eight miles west of Cedar Rapids.

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Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

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FRED CHANDLER
Route 7,
Chariton, - **Iowa**

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For full information address Wayne Dinsmore, Sec'y, Percheron Society of America, Union Stock Yards, Chicago, Illinois.

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STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

OWENS BROS.' GREAT SALE OF
SCOTCH SHORT-HORN CATTLE

AT THE FARM, FOUR MILES SOUTH OF
HOMESTEAD, IOWA, THURSDAY, JUNE 12, 1913

80 HEAD---60 FEMALES, 20 BULLS

SIX BEEFY SCOTCH BULLS THAT SELL IN THE SALE.

THE BULLS are a good lot and several of them are good enough to head any herd. Courtier's Crown, Scottish Chief, Scottish Courier, Courtier's Hero, Scottish Secret and Sultan's Magnate are all good ones, the deep, thick, low set kind. If you want a herd bull, don't miss this sale.

THE FEMALES include some of the best cows and heifers we own. 20 of the cows have calves at foot and the others of breeding age are in calf to our herd bulls, Sultan Goods, Cumberland Dictator and Scottish Lad. The Queen of Beauty, Flora, Butterfly, Secret, Avalanche, Violet, Emma, Duchess of Gloster, Victoria, Missie and other Scotch families are represented. The cattle are in the finest of breeding condition, just right to do well in the buyers' hands. All have been tuberculin tested.

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OWENS BROS. Box H HOMESTEAD, IOWA

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EASY CONNECTIONS TO OUR SALE FROM HOWELL REES & SON'S SALE AT SOUTH OMAHA ON JUNE 11TH.

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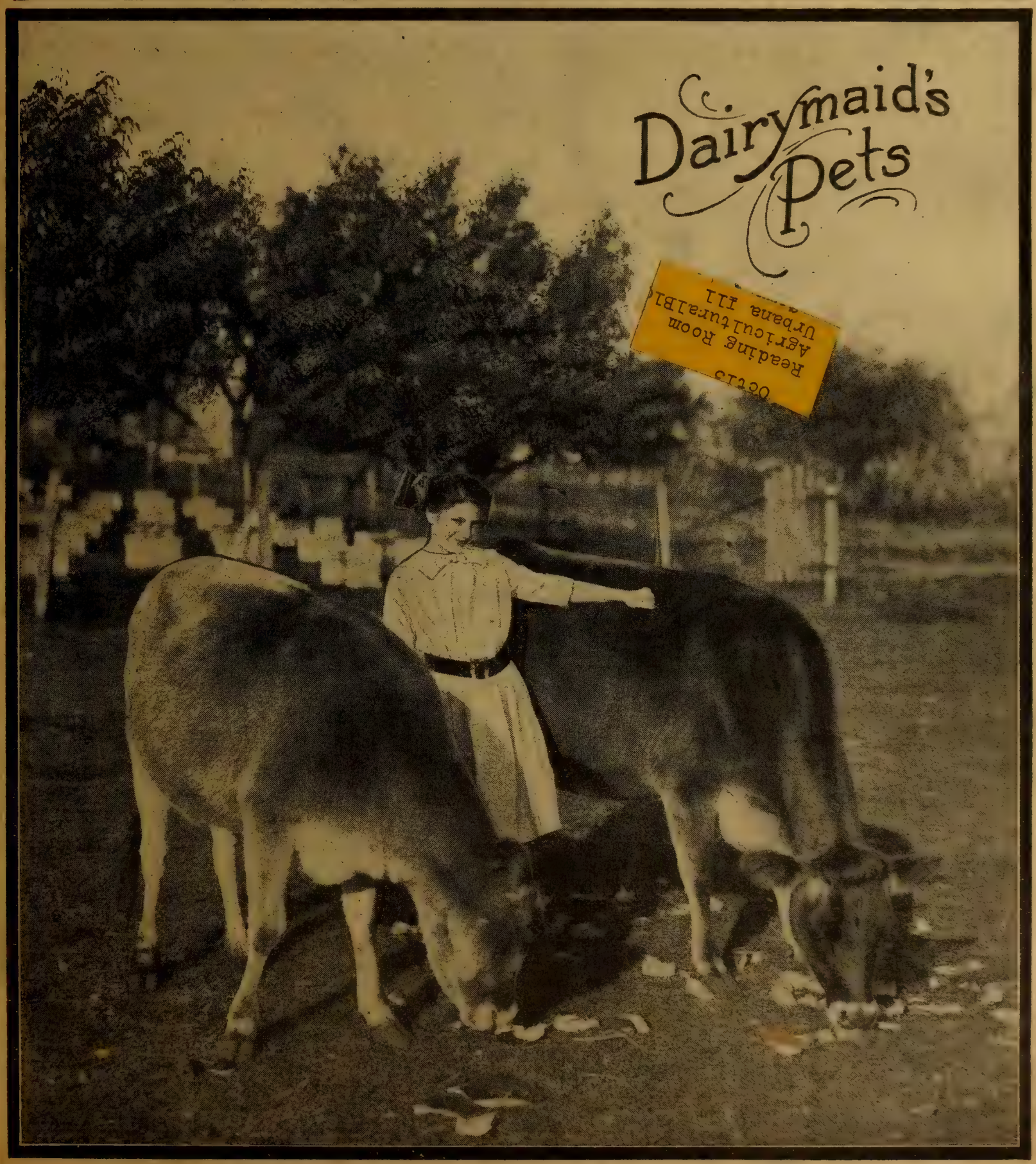
The Iowa Homestead

VOL. LVIII. NO. 23 DES MOINES, IOWA, JUNE 5, 1913. WHOLE NO. 2904



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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 5, 1913.

THE ONE-ROOM SCHOOL MENACE

Sorry Condition of Educational Affairs Found Throughout the Grain Belt by Government Investigators—The Cure is Not Difficult, However, and Already Better Conditions are in Sight.

ONE-ROOM MODEL SCHOOLHOUSE EXHIBITED AT WISCONSIN STATE FAIR.

THE one-room, one-teacher school is the menace of rural education. Even in these progressive days of school consolidation, when centralized schools are to be found in every state, the fact remains that the rural school is in a deplorably lamentable state of inefficiency. Government investigators have been looking into the subject thoroughly. They have gone throughout Iowa, Illinois, Missouri, North Dakota, Wisconsin, Minnesota, Nebraska, Kansas, every one of the twelve grain-belt states and twenty other states as well and have discovered facts to which the prosperous grain-belt farmer would be only too glad to shut his eyes and ears, but which remain nevertheless a shame and a disgrace to those sections in which commodious, up-to-date farm houses and substantial outbuildings testify to a prosperity no evidences of which are to be found in the country schoolhouses.

"Their terms are short, their support inadequate, their teachers poorly prepared, their attendance irregular, their management unscientific and wasteful of money, time and energy, their courses of study ill adapted to their needs and the houses in which the children are taught cheap and poorly equipped and furnished." Such is the government investigators' report on the rural school. It is a terrific arraignment, but the facts disclosed justify the severe terms.

The sorry condition of country schools is not generally recognized. A report issued by the United States Bureau of Education, under the title of "The Status of Rural Education," discloses that not foreign immigration, but the lack of educational opportunities in rural districts, is chiefly responsible for the relatively high rate of illiteracy in the United States. The illiteracy among native-born children of native parentage is more than three times as great as among native children of foreign parentage. Few people know that approximately 62 per cent of the total school enrollment is in rural schools, but that the rural aggregate attendance is only 51 per cent of the total aggregate attendance; while about 60 per cent of those in rural schools are in one-teacher country schoolhouses and that, to quote the government's report, "the instructional work in the average one-teacher country school is of very low grade."

The total number of one-room, one-teacher country schoolhouses in the thirty-two states covered by the government's report (including the twelve grain-belt states) is 147,227, which is 80 per cent of the total number of public schools in these states. At this ratio the total number of one-room country schools in the United States is 212,380, with an average attendance of thirty-one each, which means no less than 6,700,000 children in schools so unsanitary, unattractive and insufficient as to be deplorably inadequate in every way.

The grain belt cannot escape responsibility for this condition of affairs. The government's bulletin gives detailed conditions in seven of the twelve grain-belt states, as follows:

Illinois.—The state has 10,615 ungraded schools, with an average enrollment of twenty-seven pupils in each school, and an average annual session of 7.5 months. Ten of these ungraded schools were in 1910 in log buildings. There were ninety-nine schools with an enrollment of five or less; 568 with ten or less and 1,512 with fifteen or less. There were employed 3,063 teachers who were teaching in 1910 their first year. In these ungraded schools in that year there were 3,448 teachers who had less education than the equivalent of a complete high-school course.

Iowa.—The state department classifies the rural school buildings as, approximately, 60 per cent "good," 30 per cent "fair," and 10 per cent "poor," 5 per cent are without suitable and separate outhouses. There were 12,640 one-room country schools in 1910. The state superintendent reports that in January of that year 257 of these had an enrollment of five or fewer pupils; 1,814 from six to eleven; 2,986 from eleven to sixteen; and 2,453 from sixteen to twenty-one. He secured reports from 10,350 of these schools, giving the actual attendance for the best day in the third week of January, 1910. Ten schools reported one pupil each; thirty-five reported two pupils each; seventy-three reported three each; 160 reported four each, and 244 reported five each. There were altogether 522 schools with an actual attendance of five or less; 2,498 with attendance of from six to eleven; 3,127 with from eleven to sixteen; and 2,168 with from sixteen to twenty-one. In these country schools were 4,676 teachers teaching their first year, and 2,500 who began the year with less than one year's experience; 1,659 of them were receiving less than $35 per month; 7,301 from $35 to $50 per month. The average number of months the schools were taught during the year was eight. Owing to the great number of changes in teachers during the year, the average number of months each teacher was employed was, approximately, five.

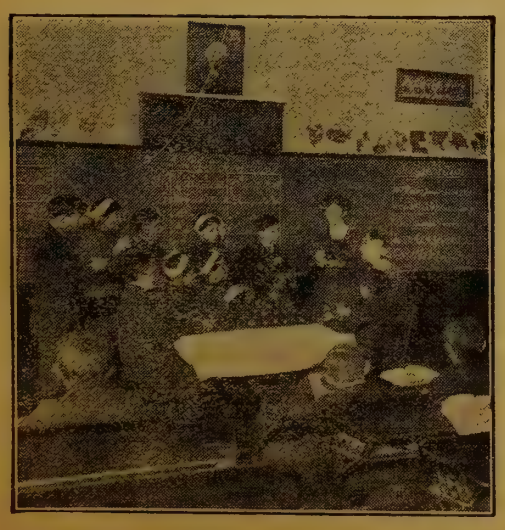
FIVE THOUSAND LOG SCHOOLHOUSES ARE STILL IN USE IN THE UNITED STATES.

Kansas.—About 300,000 or 60 per cent of the entire school population (5 to 21) lived in rural districts in 1910. Of this number 242,187 lived in districts served by one-teacher schools. The average enrollment in such schools was twenty-two, the average daily attendance fifteen, and the length of term 26.3 weeks; the cost of maintaining the schools was $3.98 per pupil per month.

Minnesota.—In 1910 there were 8,719 teachers in rural districts. Men received an average salary of $51.47; women, $42.67. The enrollment in 346 schools was less than ten pupils, and in 1,911 schools it was from ten to twenty. The average session for these small schools with less than twenty pupils was seven months. Each pupil attended on an average but ninety-two days. The teachers in them were paid an average of $39.37 per month, which is $3.69 less than the average paid for all rural teachers of the state, and $12.86 less than the average paid for all teachers, both urban and rural, for the state.

Missouri.—There were 10,882 school districts in 1910, including 697 with fewer than twenty pupils of school age and

(Continued on page 11.)



A GOOD TEACHER MAY WORK RESULTS EVEN IN A POOR BUILDING.

SEVEN MILLION CHILDREN DEPENDENT UPON ONE-ROOM SCHOOLHOUSES.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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Address all communications and business letters to THE HOMESTEAD COMPANY, Des Moines, Iowa.

A GIGANTIC ROAD PLAN.

Ex-Senator Jonathan Bourne, Jr., of Oregon, father of the parcel post legislation in congress and to whose untiring efforts the law creating that service is largely due, has a plan for road building that goes far beyond any former plan, in magnitude and far-reaching result. Senator Bourne proposes to expend three billion dollars for a national system of highways, the federal government to advance the money to the various states on their fifty-year 4 per cent bonds: His plan contemplates that this immense fund shall be apportioned among the states on the basis of area, population, assessed valuation and road mileage. The proposed apportionment to middle western states would be as follows:

	Road mileage	Apportionment.
Illinois	94,141	$39,400,000
Iowa	102,427	25,000,000
Indiana	67,996	25,100,000
Michigan	68,906	28,800,000
Wisconsin	61,000	25,600,000

The Bourne plan also suggests the establishment of a national school of highway and bridge engineering in Washington, so as to create a supply of trained specialists from which the various states could draw for state and district engineers, thus systematizing the work of construction and maintenance the country over.

Senator Bourne realizes that the magnitude of his plan is one of the chief arguments against it, the rank and file of the road enthusiasts preferring to make haste slowly and go about the herculean task in a more modest manner to begin with at least. He has presented his plan, however, to the joint congressional committee of federal aid for post roads and has started on a campaign of promotion and publicity by which he hopes to win converts. Elaborating his plan to an eastern newspaper man he said:

Expenditure of $3,000,000,000 by the government and the several states for highway improvements is, at first thought, a startling proposition, even though the expenditure be distributed over a period of fifty years; but when we consider the magnitude of the interests affected, it will be seen to be a wise investment.

There are in the United States some 890,000,000 acres of farms, worth about $39,000,000,000. There are some 22,000,000 working horses and mules on these farms, costing annually for feed and keep about $1,760,000,000. With good roads will come substitution of traction for horse power, with a probable saving of $1,000,000,000 a year.

My plan contemplates the expenditure of $1,000,000,000 for road construction and $40,000,000 a year, for fifty years, for maintenance by the government and the states, making a total of $3,000,000,000 in fifty years. If the expenditure for construction increased the value of the farms only 3 per cent the owners would get back immediately in property values more than the amount of the investment. If the amount expended annually for road maintenance reduced the cost of hauling 30 per cent, the saving would cover the cost of maintenance. In my opinion the adoption of my plan would double the total value of farms and reduce the cost of road hauling 75 per cent.

As a plain business proposition, expenditures on road construction and maintenance offer larger returns on the investment than anything else of which I am aware. In my opinion, roads are of far greater economic and social importance than pending tariff and currency legislation combined.

I is a forgone conclusion that the American people will not adopt any such gigantic plan without due consideration and discussion, so that there is little prospect of the scheme being tried out in the near future. At the same time Senator Bourne has a reputation for putting through some big reforms. Two years ago the parcel post seemed to be slated for oblivion for many years to come, yet today it is so firmly established as to lead to the wonder that it was so long delayed. It is not chimerical to suggest that even as immense a plan as the Bourne road plan is possible some day.

A WORD ABOUT THE COLT.

A Missouri subscriber calls attention to the fact that the average farm colt, even before weaning, requires something to supplement the mother's milk. In outlining his own methods of handling colts he says:

Too few of the colts on most farms receive any other means of sustenance except their mothers' milk till they are ready to wean. Of course, the colt will graze some, but it will not develop and thrive as well on grass and milk as it would if properly fed on a little grain and mill-feed stuff. We begin to tempt the colt to eat of a little grain, mill feeds and clean, bright roughage just as soon as possible. With a small trough containing some grain, and placed where the colt frequents, it quickly forms the habit of eating.

Oats are a fine grain for the colt. Too much corn is to be avoided, as it is too strong for the little fellows' digestive apparatus. It does not contain the substance of which colt tissue ought to be formed, anyway. Frame (bone) and albuminous structure should be embodied in the colt's rations.

We have found a most satisfactory feed for the colt to be one part corn chop, one part bran, and two parts oats. These form a ration that will furnish bone and muscular tissue for the young and rapidly growing body, and at the same time supply sufficient material for putting on a little fat and keeping up the heat sometimes necessary.

Such a ration is especially adapted to keeping the bowels of the colt free and easy of movement, which is very essential at this particular period. Any congestion or difficult movement of the bowels must be given the most prompt attention. For this reason it will be well to add to the above ration two or three handfuls of oil meal twice a day, the amount being increased or lessened according to what the requirements seem to be.

By a judicious, systematic plan of feeding the colt we thus insure its rapid and proper development into a strong, full-sized animal. This should be done before the weaning period, as it will so accustom the colt to eating that the change from sucking the mare to that of subsisting entirely by eating will not prove so much of a detriment to it. The plan of early feeding also aids in keeping the mare in good flesh, as the colt will not draw so heavily from her milk supply as it would if no feeding were done in conjunction with the nursing.

We venture to say that where the little colt is fed liberally on either ration mentioned by this subscriber it will result in making not only maximum growth, but the little fellow will line up in the fall carrying a reasonabe amount of flesh even though the mare has been worked somewhat freely through the spring and summer months. We would like to place special emphasis on the free use of oats, though a little corn may be used to advantage if the ration is balanced by adding some bran and oats. In the case of the draft colt where the mother is at work liberal feeding at all times can only mean one thing, namely, that maximum growth of body and limb will result. Those who will take the time to consult the draft horse market will find that pounds are very high in price after a certain limit is reached and these pounds can be more economically made the first year than at any other time.

PROFITS IN ROTATION OF CROPS.

An average profit of $8.02 per acre for six years is the result of the work on the North Dakota demonstration farm at Bathgate. To secure this result the crops were rotated as follows: corn, wheat, barley, clover, wheat, oats, and the land manured for the corn crop. The highest average net profit per acre was $15.57 in 1911, the lowest was $2.93 in 1909. The yields were about as good in 1912, but the price was enough lower to reduce the returns by $9.30 per acre reducing the profit from $15.57 in 1911 to $6.26 in 1912. Clover has had a good deal to do with securing these profits. It has returned on an average, $33.24 per acre per year and that with an outlay of but $9.50 per acre. The average return for wheat has been $18.90, but the cost of production was $10.25. Without the manure and the clover the wheat would not have yielded enough to make a profit of $8.65 per acre.

The demonstration farm at New Salem has been run seven years. The rotation here consists of corn, fife wheat, oats, oats and peas, and macaroni wheat. The land is manured for the corn crop. The average net profit per acre for the seven years was $4.77; 1910 and 1911 showed a loss of $4.01 and $1.85 respectively. The profits in the other five years were sufficient to wipe out this loss and bring the average net profit to nearly $5. These results could not have been secured without the manure, the corn and thorough work.

WHITE CLOVER AND FLIES.

There are few farmers but realize that the house fly is a deadly pest. The great question is how to get rid of it. It will not do to consider the work ended once the windows and doors are screened, for flies will gain entrance notwithstanding such precautions. What the farmer and the farm wife need is good, sensible advice on how to rid themselves of a pest at once uncomfortable and dangerous. We are indebted to Dr. Crumbine, of the Kansas State Board of Health, for the following practical suggestions on how to rid the house of flies once they gain an entrance:

Any method that gets rid of one fly is good; a method that gets rid of two flies is better, and so on. Fly paper is good, but you have to wait until the fly allows itself to be stuck, and some flies are very perverse about this. Poisoned water helps, but often the flies seem to be immune.

Pyrethrum powder burnt in a house stupefies flies until they may be swept up and destroyed. A little of this burnt in the morning in the rooms which are then aired, will make the house exempt from flies all day. Twenty drops of carbolic acid put on a hot shovel or any piece of iron creates a vapor that kills flies, making a simple and effective remedy. The common mignonette plant grown in jars and placed in a room makes home life unpleasant to the house fly, while nature has given us another simple remedy in the common white clover found in almost every yard. Gather a handful in the morning and place it in a vase, and watch the flies hunt the open; its odor is very offensive to them. The clover should be renewed every day or so, for when dry it irritates the nostrils.

A cheap and effective poison, not dangerous to human life, is bichromate of potash in solution. One dram dissolved in two ounces of sweetened water and placed in shallow dishes will dispose of many flies. Another remedy which for all purposes probably has no equal is a solution of formalin or formaldehyde in water. A spoonful of this liquid in a quarter of a pint of water left exposed in a room will kill all the flies in it. Flies are also exceedingly sensitive to light. By closing all the blinds of a room except one, the flies will seek the open one, when they can be easily driven out.

The white clover treatment is available to practically every farmer and should be tried immediately. Most of the other suggestions depend upon drugs which must be purchased. It might be well to make a list of these for purchase the next time a trip to town is taken. The ordinary house fly is little, but its possibilities of trouble are great. The danger in the drug treatment lies in the possibility of the children being hurt by the preparations, for children have a way of getting into mischief with the most harmless things. We would suggest careful screening of all openings and a thorough trial of the simple treatment suggested by Dr. Crumbine, using the bunch of white clover, with the use of drug preparations withheld until the simpler methods have been tried.

ROAD DRAG DAY.

The success of Road Drag Day is assured. Hardly a state of the grain belt but is trying this latest plan of co-operation between town merchants and farmers. The success of the plan in Stuart, Iowa, a town of 2,000, was recently detailed. The success of the road enthusiasts of Centerville, Iowa, a town of 6,000, is so notable that we publish the following report, kindly furnished by a subscriber:

Centerville believes it broke all drag day records when 150 drags were driven to town and prizes were distributed by merchants amounting to $2,000. The sixty-ninth one to register was Miss Edna Gray, twenty years old, who drove thirty-one miles. She got up at two o'clock, left home at three, drove eight miles to the southwest corner of the county, then twenty-three miles to Centerville on a drag without a seat on it. She admits she sat down on it occasionally. Her brother accompanied her on the trip with another team. Her prizes aggregate $111 in cash and $9 in merchandise and good roads boosters propose to raise her a purse.

Mrs. Blanche Talbot drove in thirteen miles with a seven-months-old baby on the drag and took the prize for the married woman coming the farthest. W. S. Creech was the man coming the farthest, driving seventeen miles. Isaac Streepy was the oldest man to finish the drag marathon. His age is seventy-five years. W. H. Owings was a close second. He is seventeen days younger. Arthur Cozard, six years old, was the youngest boy and Marjorie Talbot, nine years old, was the youngest girl.

Every dragger was given merchandise prizes by thirty merchants besides the special prizes. Coming to town and returning the draggers traveled a total of 1,774 miles.

When all ages from nine to seventy-five thus co-operate there is hope that the enthusiasm necessary for the solution of the road problem will shortly be forthcoming. Road Drag Day is passing the experimental stage and proving its practical usefulness.

STUDYING THE SELLING END OF FARMING.

A newspaper interviewer recently asked the new secretary of agriculture, David F. Houston, "What is the most important agricultural question of the day?" The secretary was ready with his answer. He had a wide field to range over: good roads, greater yields per acre, improved schools and churches, home uplift. But Secretary Houston believes there is an even greater and more imminent question than these. Here is how he answered, in his own words:

What is the most important agricultural question of the day? Let me answer you in my own fashion. So far, the states and the national government have been giving attention to problems of production. We have wanted to know how staple crops might be increased. More and better corn, cotton, wheat and hay on the same acreage has been the aim of scientific agriculturists. The results which have been accomplished in that direction are wonderful. We have learned how to produce. Now we must learn how to market our crops. Therefore, organization is necessary. Co-operation is a word I dislike. Many co-operative enterprises are fakes. They are no more than private combinations run for personal profit. Uplift is another misused and overworked word. Besides, it is offensive. Any man resents being told that he needs uplifting. Co-operation, therefore, as it is often practiced and is coming to be understood, is not to be applied descriptively to the movement we are about to undertake. Organization is the term to be employed in connection with our efforts—not organization which looks toward holding crops back from market and influencing prices, but which promotes potentiality and improves conditions of rural living.

Our first attention is to be given to the marketing of farm products. I was glad on coming here to find that congress had taken a squint at that great question by making an appropriation of $50,000 with which the secretary of agriculture is to carry on an investigation and to acquire and diffuse among the people of the United States useful information on subjects connected with the marketing and distributing of farm products. But the sale of produce is only one aspect of the movement toward rural organization.

Many things have been done in spots throughout the country to better conditions among agriculturists. These are to be studied and knowledge of them carried to the farmers of all sections. The vision that comes into the minds of those working to develop the rural organization service includes good schools, competent doctors, places of amusement, facilities for borrowing money at a reasonable rate of interest, systems of sanitation, and, indeed, all the advantages and conveniences found in our cities and large villages. We see, also, a centralized church for each farming center, and not three or four weak congregations, battling for existence and starving their ministers.

The interview is important, in that it shows the attitude of mind of the man who for the next four years is to direct the far-reaching work of this highly important branch of the government. Secretary Houston brings new blood into the department for the first time in sixteen years. During that time he has been studying problems, first hand in Texas and Missouri. He is convinced that what the farmer needs is not so much bigger crops, but bigger earning capacity for the crops which he already produces. To this end, the department of agriculture will devote itself and its many-sided and far-reaching energies for the next four years.

It is of more than passing interest to note that grain-belt men have been called upon to carry on this new work. To begin with, Secretary Houston, coming from Missouri, is a grain-belt man. In the second place he has chosen as his first assistant another Missouri man, Dr. Beverley T. Galloway, assistant in horticulture at the

University of Missouri for a number of years. In the third place he has put this work of farm organization and crop marketing in the hands of still another grain belt product, Dr. Thomas Nixon Carver, born and educated in Iowa and an expert on economic questions of the day. Dr. Carver knows the farmer's problems first hand. Needing money to pay his way through college he started a milk route and for four years worked, as hard as any man ever worked, in a dairy, making the fruits of his toil pay his college expenses, year by year, until he graduated. It is into such experienced hands that Secretary Houston proposes to entrust this highly important question of seeing that each stroke, each seed and each moment count double what they did in the old days of unorganized, haphazard farming and selling of farm products.

CORN ROOTS NEAR THE SURFACE.

There has been uneasiness throughout the greater portion of the corn belt this year over the lateness of the season. Heavy rainfalls combined with a low average temperature have resulted in making soils unusually cold for the time of year and as a result it may be said that the crop is starting off behind time. This coldness of the soil will materially affect the character of the root development and the growth in the surface soil will be much greater than is usually the case. It may be depended upon always that roots will develop in that part of the soil where conditions are most favorable as to the warmth of the surrounding medium and the moisture supply.

As a general principle, it may be always safely borne in mind that deep cultivation is much better suited to dry years than to wet and the conditions thus far this year indicate that those who hope to reap maximum crops will not indulge in the luxury of pruning the corn roots with their cultivators.

Of course, it goes without saying that when plants are small, little damage can be done, but in going over the corn the second and third time the thought that should be uppermost in the mind of every man who actually does the work is that the roots are nearer the surface this year than usual and that therefore the soil should not be stirred deeply.

An additional fact should not be lost sight of, namely, that deep cultivation always delays the crop in maturing, and as the season this year between the time of planting and the average date of the first frost is now known to be too short, every effort should be made to hasten maturity rather than delay it. We have known instances where a single deep cultivation late in the season has delayed ripening for a period of ten days, this being not apparent when the deep cultivated crop was compared with an adjoining field where shallow culture was practiced.

We well realize the aversion which many men have for the shallow shovels because we have known instances where hired men absolutely refused to use them. It may therefore require some patience to get the work done this year in accordance with sound practice, but be assured that any patience that is excercised in order that this desirable end may be reached will be paid for at a very good price per hour for labor involved.

DISINFECTANTS FOR STABLES.

In a recent bulletin from the department of agriculture some attention is given to the question of disinfecting stables and the instructions in this bulletin include among other things a list of the most commonly used disinfectants. For example, bichloride of mercury, also known as corrosive sublimate and mercuric chloride, is used in solution in water, commonly in a strength of one to 1,000, though solutions of double such strength may be employed. Although possessing great germicidal power, it has the disadvantages of being a violent poison, of corroding metals and of uniting with albuminous substances, such as excreta, blood, etc., and thus forming inert compounds. Unlike the coal-tar products, it leaves no odor in the stable, which is an advantage in connection with the production of milk. On the other hand, care must be used in the handling of a solution of this drug, and feed boxes to which it has been applied should be washed with clear water before animals are again permitted access to them.

Chloride of lime (sometimes termed chlorinated lime) is a well-known disinfectant, although its value is doubtless greatly overrated. This may be due in part to the fact that it is a powerful deodorant—such drugs on account of their pungent odor being popularly believed to have great disinfecting power. Being of uncertain strength and somewhat destructive to metals and having a permeating odor especially objectionable in a stable where milk is produced, chloride of lime cannot be classed as the most desirable of disinfectants. For general disinfecting purposes it may be mixed with water in the proportion of six ounces to the gallon.

An aqueous solution containing approximately 40 per cent formaldehyde and known as formalin has of recent years become a more or less popular disinfectant. Formalin is mixed with water in the proportion of six ounces to the gallon and the resulting solution is applied directly to surfaces of substances which are to be disinfected.

Carbolic acid in its pure form is, at ordinary temperatures, in the shape of long, white crystals. For convenience it is frequently dispensed in liquid form by the addition of 10 per cent of water. A 5 per cent solution of carbolic acid is sometimes used as a disinfectant, but carbolic acid has the disadvantage of being expensive and somewhat difficult to dissolve.

Crude carbolic acid should not be confused with pure carbolic acid. It is a product of coal-tar distillation and consists for the most part of practically inert oils and cresylic acid. Its disinfecting power depends upon the amount of cresylic acid which it contains, as well as the relative percentage of hydrocarbon oils. Owing to its uncertain composition crude carbolic acid cannot be classed as one of the most desirable disinfectants.

Cresol, commonly termed "straw-colored carbolic acid," "liquid carbolic acid," etc., in a 2 per cent solution is an efficient disinfectant. It has the disadvantage, however, of being somewhat difficult to dissolve, so in preparing a disinfecting solution warm water should be used and care exercised that the drug is entirely dissolved. As the disinfecting power of cresol is dependent upon the amount of cresylic acid contained therein, it is essential when using the drug to know the degree of purity. Grades can be purchased under a guaranty to contain from 90 to 98 per cent of cresylic acid. Any containing less than 90 per cent should be rejected.

IOWA SWINE BREEDERS.

A letter just received from Sec. M. P. Hancher, of the Iowa Swine Breeders' Association, states that the date for the summer meeting has been set for June 18th, and that the usual meeting of the expert judge association will take place on the day following. Only a portion of the program has been arranged at this time. Dr. C. H. Stange is on the list for a paper on the subject of "Methods for Controlling and Eradicating Hog Cholera in Iowa." Prof. John Evvard will talk on "Forage Crops for Swine." Col. H. S Duncan will deliberate on the subject of "Public Sales." W. M. McFadden, secretary of the American Poland China Record Association, will aso be on the program, but the subject has not yet been decided upon. Mr. Hancher informs us that in next week's issue we may expect to give the entire program for the day's exercises.

According to a bulletin issued recently by the Michigan State Dairy and Food Department the "Egg Substitute" that has been offered for sale proves to be a composition of baking powder, starch and analine dye. Every cook knows full well that in a scarcity of eggs if starch is added it helps lighten the pie or cake. One of these substitutes was named "Egg Save" which on being analyzed was found to be 80 per cent starch, 2 per cent casein and 18 per cent water colored with a yellow coal tar dye. If we are short on eggs we will use our own starch, thank you.

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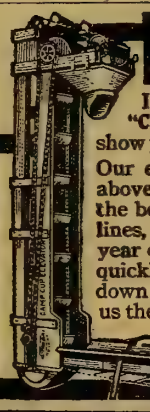

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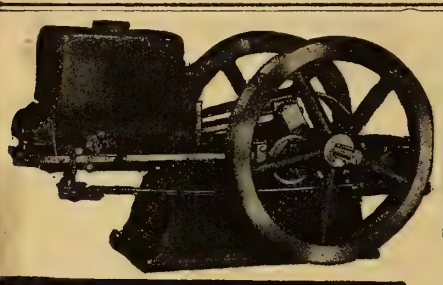

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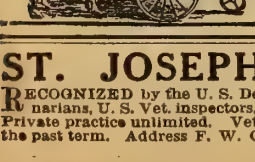

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CURRENT EVENTS

A MICHIGAN editor, George A. Newett, of Marquette, is being sued for libel by Theodore Roosevelt because of the publication of an article in his paper, Iron Ore, in which he said: "Roosevelt gets drunk and that not infrequently, and all his intimates know it." This story of alcoholic excess has frequently been raised against Roosevelt, who now proposes to put an end to it for all time. He ordered his lawyers to bring suit against the Michigan editor for $10,000, not in hopes of obtaining a verdict for that amount, but to stop what he claims are libelous lies about his personal habits. Colonel Roosevelt occupied the witness stand the greater part of one afternoon, testifying under oath that while he is not a total abstainer, he never was drunk in all his life, has never entered a saloon, has never drunk whiskey except when prescribed by a physician, has never tasted beer but once, partakes of light wines temperately in his own home or as social conventions demand when he is a guest. Colonel Roosevelt made a good witness and was corroborated in his testimony by his personal physician who testified that no man who was given to alcoholism could have withstood the shock of the assassin's bullet as Roosevelt did last fall in Milwaukee. Among others who will testify are Admiral Dewey, Lyman Abbott (editor of The Outlook, of which Colonel Roosevelt is associate editor), Robert Bacon (former United States ambassador to France), James R. Garfield (former secretary of the interior), Gifford Pinchot (former government forester) and William Loeb, Jr., (President Roosevelt's private secretary). Colonel Roosevelt declares that he is exceedingly temperate in his personal habits, while the Michigan editor alleges that Roosevelt was drunk on the occasion of a public address in Duluth, Minnesota. The trial promises to be a notable one because of the prominence and the long and notable list of witnesses. It is a good thing to get this subject of Colonel Roosevelt's personal habits settled once and for all, so that, if the story of excesses be found to be a libelous canard, it cannot be used against him and his principles in any future campaign.

A SPECIAL session of the republican national committee, to be called sixty days after the adjournment of the present congress, was decided upon at a meeting of the executive committee in Washington last week. The special session is for the consideration of three important matters: amending the representation of states at future republican national conventions so that it will be proportionate to the actual vote rather than to the number of representatives in congress, thus cutting down the unfair representation of the democratic South; recognizing statewide primaries and providing for the selection of delegates in this manner, rather than by old-style caucuses and slates; a national convention to be called within the next year to put these reforms into existence and otherwise take steps to reorganize the party. The feeling is quite general that if the republican party is to remain one of the leaders it must reorganize promptly and be prepared for the next campaign. At a recent meeting of the progressive branch of the party in Chicago a conciliation committee of five was selected, consisting of Senator Cummins, Senator Jones, Senator Crawford, Representative Cranford, Representative Rogers and ex-Governor Hadley. This committee has issued a statement in the course of which it says: "The existing rule promulgated by a convention held more than thirty years ago relating to the manner of selecting delegates needs revision. Some of the states have passed primary laws and others will pass them that are not in harmony with the rule, and some provision must be made that will remove the conflict. We content ourselves by stating what seems to be an obvious conclusion. "That we must either accept these primary laws or we shall have no republican following in the states which have enacted them." The proposed meeting of the republican national committee is for the purpose of deciding definitely whether these reforms shall be made and the progressive branch dominate the party.

A FALLING pier caused the death of thirty-three persons and the serious injury of double that number at Long Beach, California, last week. A large crowd had assembled on the beach to celebrate British Empire Day, in honor of the birthday of the late Queen Victoria. The doors admitting to the pier were thrown open and the crowd surged out upon the poorly constructed framework, which collapsed throwing hundreds upon the beach twenty-five feet below. All but one of the victims were women, many of them aged, who were unable to save themselves. An official investigation has been ordered and damage suits totaling a million dollars will be instituted. The accident threw a damper upon the observation of the day, which has come to be widely recognized throughout the English-speaking world, because of the great strides made by Great Britain under the rule of Victoria, one of the greatest rulers and best women who has ever occupied the throne.

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makes this heavy job fun for the boy. Curves and switches take the carrier to any part of the barn. The cost is small. It's a money making investment in any size stable. **Send for Catalogs. Ask your dealer about the LOUDEN CARRIER.**

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If you expect to rebuild or **remodel a barn our Architectura Department will work your ideas into a real plan without cost or obligation to you.** Tell us the number and kind of stock you wish to stable and give other information. We may be able to save you a good many dollars.

We manufacture every equipment for Dairy, Horse and Hog barns, and hay unloading tools.

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WATERPROOFS DUCK

"Sheds Water like Yours Truly"

ABSOLUTELY WATERPROOF STACK AND MACHINE COVERS

OUR Stack and machine covers made of the very best quality of duck and treated with **Slickerine** wear twice as long as others and are absolutely waterproof. They stand hardest use—never mildew, get stiff or break. Covers 9 ft, 4 in., or over, strips run the short way, draining water perfectly and adding great strength. Manila ropes 4ft. 8 in. apart. Guaranteed full size and weight. Write for free booklet. Reference, Illinois National Bank

SLICKERINE COMPANY,

P. O. Box 79, Dept. 7. Peoria, Illinois.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

The coming of spring and early summer seems to bring out new cases of lump jaw among cattle. I have had best luck treating lump jaw with the patented dopes. If used according to directions, the cure is practically sure. The sooner treatment is given after the lump is noticed, the easier the cure.

It is all right to dehorn calves as soon as the button starts, either with caustic potash or any of the prepared dehorning compounds, but I imagine they are more apt to develop into "bunters" than when the horns are allowed to grow and are cut off, say when the animal is a yearling. Perhaps this is all imagination on my part.

I haven't a sweat pad on the farm and not a horse with a sore shoulder or even a hint of collar trouble. Since I quit sweat pads and put the money formerly paid for them in extra collars, my horses have had no shoulder trouble.

I pity the man who has outgrown his love for a good clean game of baseball. Such a man is growing old too fast.

Too much green grass and too little grain puts a work horse on the bum in short order. I do not like the idea of turning the work teams out on pasture during wet weather, when there is no field work to do and feeding no grain during that time. They come back to work in a soft, weakened condition.

All agree that the country is never prosperous unless the farming class is prospering, yet they are now asking us to produce things for less money, that the world may live cheaper. Have we got to the point where all things are too high priced?

Harrowing corn when small seems to be going out of fashion more and more each year. Most corn growers now figure that time necessary to harrow a field is better spent in cultivating—and, besides, most cultivators are now provided with seats.

The small farmer has to limit his machinery purchases, for he has not the use for many machines that make their purchase profitable. How fine it would be if every neighbor would get along fine with every other neighbor, then the co-operative purchase of machinery by small farmers would be practical.

It is money wasted to spend it for dragging a road that is not piked enough so there is a ditch on either side of the roadway. Better grade first, then keep the grade up by dragging afterwards.

Whether four large shovels or six smaller ones are better depends upon field conditions. A change of gangs and shovels would be an ideal arrangement, but we do not all feel that we can afford that. I know that four large shovels are better weed "ousters" than six smaller ones, but many times we cultivate to put the soil in condition rather than to kill weeds, and the smaller shovels are better for that.

If the sow is in the habit of losing her litter, it is the height of folly to continue breeding her, as she has some inherited ailment. Market her at once!

If there is any time that is more pleasant than all others on the farm it must be in spring when the fruit trees are in full bloom and the grass is at its "greenest." There are no flies nor mosquitoes to pester and no matter which way we look there is some beautiful work of nature to admire. Let us enjoy the beauties of spring while we may.

The right time to plant corn is just after a good seed bed has been prepared. After the seed is in the ground it may do to go and see your neighbor who farms by the moon and give him some sunshine in exchange for "moonshine."

The "latest thing" in gas tractors is one that can be steered with lines like a team. The next will be one that will mind "get up" and "whoa" and perhaps one that will come at our call and eat salt out of our hand. Who knows?

One thing every farmer needs, whether he has a work shop or not, is a blacksmith's box vise, and it should be a good one, because some day it will see hard usage.

The experiment station is a good place to go for advice as to the kind of materal to use in building a silo, also the size to fit your herd. The dealer may be thinking of his own pocketbook when giving advice on these questions.

The practice of allowing the cattle to graze over the grain fields a few days after the grain is up may be all right in some cases, but it does not take a very bright farmer to see that it is all wrong when the fields are soaked like they have been this spring. Young plants crushed into the mud never rise again.

It is usually a mistake to hire an inexperienced hand to put up any kind of building, but with a silo it is foolish to do so. This building must be absolutely perfect or it is worse than worthless. When the inside walls are smooth and water tight they are as they shoud be.

The lock-stitch sewing awl is a handy thing to have around for keeping the harness in repair, because sewing is often neater and better than riveting, but it must not be forgotten that it takes practice to do perfect work with anything. Don't make your start on a heavy tug.

Just now the cultivator is an all-important tool. The important part of this very important tool, too, is the shovels. Working with poor shovels is costly economy.

I do not like to be late with clover haying. There is a time when clover makes the best hay, and unless the weather prevents haying at that time, I plan on letting the other work wait until this job is out of the way. When a third of the heads have commenced to turn color, is my rule.

A small pasture close by the building is handy. There is usually a few "calm milkers" that should be kept close by, and the mare with her young colt just fit in the barnyard pasture.

There is no tree for artificial groves like the catalpa. The half acre I planted something like twelve years ago make fine posts now, and wherever a tree is cut sprouts come up that grow faster than the first cutting did. One should be careful about getting the sprouts out so that but one is left to a stump. The second growth will be straighter than the first.

At this season of the year the mind of youth turns fondly to the promised day for fishing A day's trip to some river often does more to make the boys feel satisfied with the cornfield than anything else. I can remember when a day spent along "the Elkhorn" was a great event.

The mare that will not raise a first-class draft colt returns more profit to her owner when she raises a mule. Of course, the large mule outsells the small one, but a small mule will outsell a small horse any day of the year.

For That Picnic

—to insure complete success take along a case of

Coca-Cola

The satisfying beverage—in field or forest; at home or in town. As pure and wholesome as it is temptingly good.

Delicious—Refreshing

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Demand the Genuine—
Refuse substitutes.

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2-A

At Soda Fountains or Carbonated in Bottles.

THE COCA-COLA COMPANY, ATLANTA, GA.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

FAILURE WITH THE INCUBATOR.

Mrs. J. H. Menamin, one of our Minnesota subscribers, makes the following inquiry:

I purchased a 200-egg incubator and it is our first experience with a machine of any kind. Have just taken off our second hatch. Our first experience was eighty fertile eggs from 198 and fourteen chicks, ten of which were cripples and all died in less than a week. The second hatch was 194 eggs, 142 of which tested fertile; result, thirty live chicks.

The machine was run according to directions and the eggs were turned and cooled faithfully, at no time during the hatches did the heat get below 102 degrees and never higher than 105 degrees and that only once in the last week. No moisture at all was used, but frequently during the last two weeks and the last week especially, the inside of the doors and the bottom of the nursery was covered with moisture.

The eggs were purchased from a raiser of full blood Rhode Island Reds and the flock seemed to be in good condition. Out of the 112 eggs that didn't hatch there were ten full-grown chicks dead in the shell, and the rest seemed to be filled with what looked to be the intestines and some fluid. The first hatch was about the same way. Another thing I noticed was the marked difference in temperature of the under side of the egg and the side turned toward the pipes. Is a person supposed to air the eggs before turning? The trays are made of screen, would a piece of muslin on the bottom of the tray help?

Now where is the trouble, in the management of the incubator, the incubator, or the eggs?

The contents of the eggs examined indicate lack of heat and consequently undeveloped chicks. Also does the fact that the "under side of the egg was cold" gives rise to the opinion that the egg chamber was not warm enough.

We are unable to account for the excessive moisture in the machine unless the ventilation is insufficient When the chicks begin to come from the shells, the escaping moisture is apparent on the glass door, and if the incubator be left closed and the temperature not allowed to run down, all is well. If, however, the door is opened at this critical stage, the sudden drop in temperature often chills the chicks so badly that they "die in the shells." We would not advise muslin to be placed over the tray; if it were required the manufacturer would supply it.

It is barely possible that the parent stock is weak and the germs die in the process of incubation, though not at all probable. What about the conditions of the room? Are there any decaying vegetables or oil tanks to give off foul vapors? Does the room contain adequate fresh air by being well ventilated? The lungs are not developed at this stage and the chick gets its oxygen through the pores of the shell and failure to supply the necessary oxygen will cause disaster.

We had a very expensive lesson along this very line a couple of years ago. A neighbor was employed to run her own and our incubator, both to be filled with high-priced eggs. The first time was a total failure, the second time about a twenty per cent hatch. Everything had been cared for in a perfectly orthodox manner, such as our correspondent describes. In despiration we tried again and got the best hatch our machine had ever given. The incubators were set in a small room adjoining the dining room, an ideal placed it seemed

The first hatch was run through cold weather and no outside ventilation whatever was supplied. The next time there were some few warm days when the windows were open, with the result of a few chicks. The last hatch was run with the windows wide open and was very successful. No draft should strike the machine, however.

Are you quite sure that the thermostat is rightly placed? A woman called upon us to pass judgment on her machine—the eggs were not kept warm and a lot of other troubles, including the blaze being turned so high that the solder was melted, and this very essential part of the wooden hen was found to be upside down. Sometimes an untested thermometer plays havoc with a person's calculations.

It is due both the manufacturer and the operator of the machine that they be informed that something is wrong, and if, after all conditions are made right, it yet refuses to play fair it should be returned.

The above illustration is a likeness of Courtier's Crown, an extra good three-year-old herd bull that sells in Owens Bros.' Short-horn sale at Homestead, Iowa, on June 12th. See page 20.

CHICKEN POX.

To the Editor of The Homestead:

I have received so much valuable information from the poultry department in your paper that I feel it would be only just to other poultry raisers to add my experience with chicken pox. I haven't the least idea where the germ came from, but when I found I had a fully developed case on hand I knew at once what it meant, for I had it in my flock two years ago. My first step was to separate every ailing bird, going over the flock every day. I bought five cents' worth of permanganate of potash and put in a jar, adding two quarts of water. The first three or four days I dipped the head of every diseased fowl in this solution, full strength, and after that I diluted it one-half part water. The affected birds were put by themselves, fed a soft ration of equal parts ground corn and oats moistened with milk, and potash mixed with their drinking water. Every morning their quarters were thoroughly sprayed with creoline, taking care to give their heads a good dose of it. I have only lost two birds, and they were so bad before I knew it that I killed them. This treatment looks like lots of work, but for one who has over two hundred hens and hundreds of little chicks to save, it is the best treatment I know of.

Our egg money alone amounts to $400 per year besides what we use and what young chicks and old hens we sell every year. I think they pay better than hogs, for the money invested, but would not advise anyone, especially a woman, to go into it for pastime, for to win out one must go into it with sleeves rolled high, a brave front to rats, cats and weather and determination to win out.

A Subscriber's Wife.

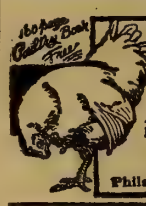
IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending June 1, 1913:

The last week of May brought a marked improvement, and the weather conditions during the six working days were ideal for field work and the germination and growth of vegetation. Excessively high temperatures and almost continuous sunshine prevailed, with no rain after Monday noon, except a few light, local showers on Friday morning, until Saturday night. Rapid progress was made in planting corn, and 80 to 85 per cent of the crop is now in. The early planting is up and shows a good stand. Cultivation is in progress in many fields, but there is considerable plowing yet to be done on low, wet ground. With a continuance of the warm, dry weather practically all of the corn will be planted by the close of the coming week, but if wet weather prevails the acreage will be considerably less than it was last year. Winter wheat and rye are heading in southern, and rye in blossom in central counties. All small grain, grass and clover are making rank growth. Potatoes and garden truck are doing nicely, and fruits are promising.

GEO. M. CHAPPEL, Sec. Dir.

Ask your neighbor to subscribe for The Homestead.



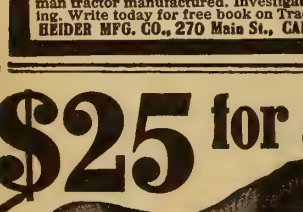
Lice Murder Chicks check laying, stunt growth, ruin the plumage, torture the hens PRATTS LICE KILLER (Powdered) murders lice and so insures greater profits. 25c, 50c. Guaranteed. Pratts 160-page poultry book 4c by mail Get Pratts Profit-sharing Booklet At all dealers, or PRATT FOOD COMPANY Philadelphia Chicago

The Heider Tractor Again Leads Them All.

Runs Successfully on Either Gasoline, Motor Spirits or Kerosene

We have solved the fuel problem successfully. A simple device permits the use of either Gasoline, Motor Spirits or Kerosene at all speeds and puts our tractor in a class all by itself. A gallon of kerosene runs the Heider Tractor longer than a gallon of gasoline, and develops the same power, thereby doing the same work at less cost than any other tractor on the market.

The Heider Tractor Pays for Itself.



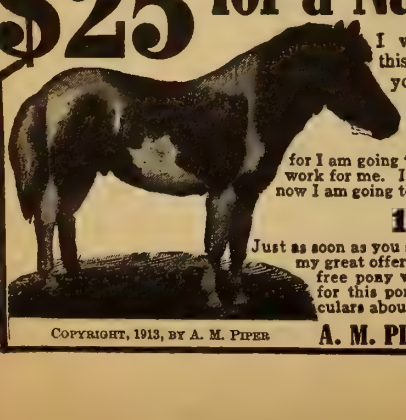
Its 4-cylinder motor, light weight, great power, simple operation, economical fuel consumption, make it the best, most practical, all-purpose one-man tractor manufactured. Investigate before buying. Write today for free book on Tractor Farming.

HEIDER MFG. CO., 270 Main St., CARROLL, IOWA.

Murderous Lice and Mites

MITES and Lice are the most murderous of all poultry pests. They bore through the skin and sap all the vitality and strength out of your fowls. J. C. Reefer, the poultry expert of 1750 Main St., Kansas City, Mo., is giving away free samples of a scientific lice and mite ointment, which poultrymen declare will exterminate these dreadful pests over night. You certainly should write Mr. Reefer for free sample and send him a stamp to pay postage.

$25 for a Name for this Pony



I will give $25.00 FREE for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

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A. M. PIPER, 600 Popular Bldg., Des Moines, Ia.

LEGHORNS.

ROSE COMB **BROWN LEGHORNS**

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9. Pens, either cockerel or pullet matings, 15, $3; 30, $5; 50, $7.50. Address R. R. STEWART, R. 2, Charles City, Iowa.

Single Comb Brown Leghorns We will supply the egg trade this season from our flock of 500 vigorous, farm range birds, bred for vitality and heavy laying; 20 eggs $1.00; 50, $2.00; 100, $3.50; 200, $6.50. None but strictly fresh, nice shaped eggs shipped. Safe delivery and high fertility guaranteed. E. A. Kauffman, Lockridge, Iowa.

Rose Comb Brown Leghorns

EXCLUSIVELY, at Pike Timber Stock Farm. Eggs, single sitting of 15, $1.25; two or more sittings $1.00 each; 100 eggs $5.00; 200 for $9.00. Address DAVENPORT & MACK, Belmond, Iowa.

MORRILLVILLE POULTRY FARM

ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males of good exhibition, colored males scoring to 93½. $1.75 per 50; $3.00 per 100. Address, mentioning The Homestead, Mrs. Will Michael, Selma, Iowa.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

S. C. W. Leghorn Eggs for hatching, 5c each. Will prepay express on all lots over 50. Baby chicks 10c ea. White Feather Poultry Farm, H. L. Darby, Prop., Hazleton, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

R. C. Brown Leghorn setting eggs from my scored pen $1.25, 15 eggs. Farm range $3, 100. I. R. D. eggs $1.25 per setting or $4.50 per 100. Farm range $3.50 per 100. Mrs. G. W. Brockway, Clarksville, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

REDUCED S.C.W.Leghorn eggs. Young's, 100, $4; 100 including 15 eggs from pen 2, $4.50; chicks, $10, 100 after June 1. Mrs. Wilson McIntyre, Red Oak, Ia.

SINGLE COMB WHITE LEGHORNS Eggs reduced to $3.50 per 100 during remainder of egg season. Mrs. Wilson McIntyre, Red Oak, Ia.

ROSE COMB BROWN LEGHORNS. Pure-bred eggs at $3 for 105 this month. Address Mrs. Laura Mather, Clarksville, Iowa.

EGGLAND EGG FARM. Single Comb White Leghorns, bred to lay. Eggs, $1 per 15, $4 per 100. Address Eggland Farm, Mt. Vernon, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

ANDALUSIANS.

EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. A. J. Arends, Blairsburg, Ia

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

PLYMOUTH ROCKS.

EGGS FOR HATCHING BARRED P. Rocks exclusively for 30 years. Yards headed by cocks and cockerels scoring 92 to 92½ points. Descendants from first-prize winners. Cocks and cockerels weighing 10 to 13½ pounds, hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last showings. Eggs $1.25 per 15, $2.00 per 30. Prompt shipments and eggs guaranteed fertile. M. HUMMEL, Monroe, Iowa.

BARRED PLYMOUTH ROCKS EGGS for hatching from prize-winning stock and excellent laying strains, both matings now at half price—$1.50 per 15; baby chicks 25c. each. MRS. L. C. REESE - - Prescott, Iowa

Barred P. Rock Eggs for Sale FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92¼; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. J. W. Wagner, Monroe, Iowa

Barred P. Rock Eggs and Baby Chicks HAWKINS, Thompson and Bradley strains. From high-scoring, good laying stock, heavy bone, deep, narrow barring. 15 eggs, $1.25; 30, $2.25; 100, $5.50; 200, $10. Mrs. Elsie Noble, R. 2, New Boston, Ill.

WHITE PLYMOUTH ROCKS EGGS $1 per 15; $2 per 30; $2.50 per 50. Birds have been winners at largest shows. Order direct from this advertisement. CHAS. L. BERRY, Iowa City, Iowa.

EGGS FOR HATCHING B.P.Rocks, fresh selected from fine narrow barred birds of large size scoring 90-92½. Winning and laying kind, wt. 10 and 12 lbs. 15, $1.50; 30 $2.25; 100, $5. G. J. Pfeil, Central City, Ia.

BUFF ROCKS Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address L. L. Woods, Grinnell, Iowa.

PARTI ROCK EGGS $3 for 15. Stock bred from Madison Square winners. Address Rahn & Son, Box 144, Clarinda, Iowa.

W.P.Rock Eggs for Hatching from high-scoring stock, $1 per setting. Order now. Moncrief Bros., Center Jct, Ia.

WHITE P. Rock eggs for hatching. 5 pens of extra good laying and exhibition stock. Prices right. Mating list on application. F. E. Ristrim, Stanhope, Ia.

EGGS—Buff Rocks $1.60 per 15, $7 per 100. Good hatch guaranteed. Good winter layers. Book orders early. R. H. Roberts, Clear Lake, Iowa.

Cut Rates White Rocks, White View Farm, Fishel strain. Eggs, $1 per 30, $1.50 per 50, $3 per 100. Mrs. C. E. Pugh, Menlo, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BarredRockEggs 15 for $1.00; 45, $2.00; 100, $4.00. Free range. Heavy bone birds. E. E. Healy, Bedford, Ia.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet, Earlville, Ia.

BUFF PLYMOUTH ROCK EGGS for hatching 15, $1; 30, $1.75; 50, $2.50; 100, $4. Address O. N. Woody, Route 3, Newton, Ia.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

ORPINGTONS.

WHITE ORPINGTONS A few eggs yet at $3.75 per 100. No more chicks as our entire output is booked. In order to make room for our young stock we will now sell a large number of one and two-year-old hens and cock birds to be delivered after June 15 at $10 a trio or $15 a pen and to all those who book their order for either a trio or pen before June 25 we will give one extra female free. $2.00 will book you. White Wing Poultry Farm, C 294, Perry, Iowa.

RARE BARGAIN IN WHITE ORPINGTON EGGS EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address F. Fortmann, Box 23, Dyersville, Iowa.

S. C. Buff Orpingtons exclusively. Eggs from high-scoring special matings, $1.50 for 15; utility flock $1 per 15. Stock for sale. V. H. Conner, Shell Rock, Iowa.

COOK'S Single Comb Buff Orpington eggs at half price. Special low prices on all breeding stock for the next 30 days. Address H. E. Gerry, Traer, Ia.

Coleman's famous Buff Orps., Prize winners. June sale, 100 yrlg. hens, 6 ckls. Eggs, young stock half price after June 1. Mrs. C. E. Coleman, Clarinda, Ia.

EGGS S. C. W. Orpington $2.00 per 15, $5.00 per 50; Barred Rock $1.00 15, $4.00 per 100. Mrs. J. A. Campbell, Route 5, Manning, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $6 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

S. C. Buff Orp. Eggs. 3 select pens; $3 for 15; $5 for 30. Farm range eggs. $1.50 for 15; $3.50 for 50; $6 for 100. Glynn Poultry Yards, L. B. 69, Cascade, Ia

KELLERSTRASS WHITES From a $100 pen. Also Owen Farm Buffs. Eggs $5 per 100 Orpington Farms, Big Rock, Ill.

EGGS from S. C. Buff Orpingtons. 15 $1; 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

BABY CHICKS.

CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. 20th Century Hatchery, Chatfield, O.

R.C.B.LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. George E. Banton, Epworth, Iowa.

POINTERS.

—Thomas L. Morlan, Indianola, Iowa, makes a new announcement on this page. Partridge Wyandotte eggs are offered for sale at the unusually low price of $3 per 100. Orders will be promptly filled.

—For the next thirty days H. E. Gerry, Tracer, Iowa, will sell Single Comb Buff Orpington eggs at half price and also make special low prices on all breeding stock. His advertisement appears elsewhere in this department.

—Mrs. Laura Mather, Clarksville, Iowa, writes: "My Leghorn eggs are hatching fine, strong chicks and giving good satisfaction. I will sell eggs cheap this month as per price quoted in the advertisement found elsewhere in this department."

—In sending change for advertisement found elsewhere in this department, Mrs. Wilson McIntyre, Red Oak, Iowa, writes: "I have had a splendid egg and chick trade this year. Will sell eggs at reduced prices the rest of the season. My eggs are hatching fine and I never had stronger chicks than this year. If in need of eggs please write me."

—Earl Bloom, Bridgewater, Iowa, well-known breeder of Barred Plymouth Rock, Brown Leghorns and White Pekin ducks advises us that his hens are laying well and that he is prepared to furnish plenty of eggs of both breeds of chickens. He has over 300 chicks just off from two incubators and is getting 90 per cent of fertile eggs. Mr. Bloom has obtained eggs from some of the best breeders of the East, as well as the West, so that another season he will be prepared to furnish still more new blood to his patrons.

Special Prices on Eggs.

Note the change of prices on eggs made by Mrs. L. C. Reese, Prescott, Iowa, on this page. She owns one of the best flocks of Barred Plymouth Rocks in the West, of the Bradley-bred most noted strains, and she is selling eggs of both pullet and cockerel matings. She is also offering baby chicks at twenty-five cents each. No better Plymouth Rocks can be secured in the West. Send her an order at once.

WYANDOTTES.

White Wyandottes. A few eggs yet at $3.75 per 100. No more chicks as our entire output is booked. In order to make room for our young stock we will now sell a large number of one and two-year-old hens and cock birds to be delivered after June 15 at $10 a trio or $15 a pen and to all those who book their order for either a trio or pen before June 25 we will give one extra female free. $2.00 will book you. White Wing Poultry Farm, C 294, Perry, Iowa.

Silver Laced Wyandottes I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

A. L. Anderson Breeder of high-class Golden and Silver Laced Wyandottes. Eggs, 15 for $1.50; 30 for $2.50; 50 for $3.50; 100 for $6.00. Address Indianola, Iowa.

R. C. Silver Laced Wyandottes; choice eggs for hatching from good laying strain. Guarantee 8 live chicks to setting or duplicate order at half price. Mrs. Frank Hoffman, Birmingham, Ia.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $1.50 for 15, $5 for 100. R. S. Tennyson, Clarksville, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored; setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

WHITE Wyandottes. Eggs from Sioux City, Des Moines and Clarinda silver cup winner. Egg orders booked. Some stock. Rahn & Son, Clarinda, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs, $1 per 15; $2.50 per 50. W. H. Ilsley, Milo, Ia.

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please; $5 per 100; $1.50 for 15. Mrs. F. O. Elliott, Kent, Iowa

White Wyandotte Eggs 15 for $1. 100 for $4. Address Mrs. T. W. Glass, Route 5, Sac City, Iowa.

WHITE WYANDOTTE eggs from record laying hens, $5 for 100. Hen-hatched chicks. Farm free from bowel trouble, Mrs. M. C. Humphrey, Derby, Ia.

WYANDOTTES—Pure bred, choice hens and pullets, mated to pure Keeler ckls., scored 92½ to 94., 15 eggs, $1.50; 50 $3. Mrs. C. A. Robinson, Griswold, Ia.

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

EGGS, Large, Pure White High-scoring, White Wyandottes and Pekin ducks. Address E. S. DYAS, Bellevue, Iowa.

PARTRIDGE Wyandotte eggs for hatching at $3 per 100. Breeding stock for sale at reasonable prices. Address Thos L. Morlan, Indianola, Iowa.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BUFF WYANDOTTE eggs for sale. Good stock and farm range, $1.50 for 15; $2.75 per 50; $5 per 100. Address Frank A. Gould, Rockwell City, Iowa.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

WHITE WYANDOTTES EXCLUSIVELY EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

RHODE ISLAND REDS.

Rose Comb Rhode Island Reds EXCLUSIVELY. EGGS FOR HATCHING LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City. Henry G. Walker - Iowa City, Iowa

R. C. RHODE ISLAND REDS THREE grand pens, two of them headed by first-prize winning mates. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address H. E. HUSTON, - Iowa Falls, Iowa

RHODE ISLAND REDS SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

FARM range R. C. R. I. R. exclusively. Eggs hatching fine. All fowls healthy. 48 fine pullets and hens in our pens now in farm range flock. We will sell eggs at the low price of $4 per 100 or $2 per 45. Summer and fall chickens cheapest and easiest to raise. Order from a healthy and vigorous flock. J. B. Heisel, Grinnell, Iowa.

$3.00 for 50 EGGS FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Single Comb Rhode Island Reds 4 grand pens headed by 2d and 4th cockerels Dubuque; 1st and 4th cockerels Oelwein. Eggs half price. $1.00, $1.50 and $2.50 per 15. Send for mating list. C. E. Hayes, Box A, Lamont, Iowa.

R.C.RHODE ISLAND REDS EGGS, chicks from big-boned, prize-winning stock. Cir. free. F. N. Blake, Maquoketa, Iowa.

Eggs for Hatching R. C. Reds exclusively, farm range $3.75 for 100, $1.87 for 45, 75c for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

EGGS from high-class R. C. R. I. Reds 75c per 15, or $3 per 100 for remainder of season. Address Mrs. Jno. Holmgren, Rolfe, Iowa.

S. C. R. I. Red eggs from a heavy-laying strain at 75 cents per 15; $4.00 per 100. Orders filled quickly. Address M. E. Edwards, Route 2, Walnut, Ia.

Rose Comb Rhode Island Reds The rich red kind that win in show room. Address C. B. Hanna, Box A, Epworth, Ia.

S. C. R. I. Red Eggs from bred-to-lay strains, $2 per 15, range $1 per 15, $5 per 100. Address F. L. Frackleton, Boone, Iowa,

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1.20 for 30; $3 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

Single Comb R. I. Red Eggs for Sale 15 for $1, 100 for $4. Address J. C. Porter, Ogden, Ia.

S. C. REDS Large, good shape, extra color, great winter layers, fertile eggs guaranteed, 15, $1; 50, $3; 100, $5. Woodlawn Farm, Sterling, Ill.

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address Mrs. Charles Belz, Conrad, Iowa.

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address Mrs. Sophia Ruder, Laurel, Iowa.

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address George Hunt, Earlville, Iowa

Eggs for Hatching S. C. R. I. Reds, $5 per 100, $1 per 15. Special prices on larger amounts. Frank Hanson, R. 2, Walnut, Ia.

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30. C. H. North, R. D. 2, New Hartford, Iowa.

S. C. R. I. Reds Eggs from high-scoring stock. $1.25 for 15, $3 for 50, $5 for 100. A. B. Walton, Wilton Junction, Iowa.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

BRAHMAS.

LIGHT BRAHMAS Eggs for hatching from pen 1, per 15, $2.25; pen 2, $1.50 or $4.00 per hundred. Mrs. Geo. Craig, Afton, Iowa.

LIGHT Brahmas exclusively for many years, fine large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

LANGSHANS.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 85c; 26, $1.50; 100, $4.50. W. W. Baskerville, Earlville, Iowa

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

TURKEYS

MAMMOTH BRONZE TURKEY EGGS $2.25 per ten. Mrs. Chas. Whitlatch, Eddyville, Iowa.

DUCKS.

White Runner Duck Eggs NOW $1.50 per 12. Orders filled promptly. Our Breeder for sale, plenty of time to hatch ducks yet. Send in your order. Address Rahn & Son, Box 144, Clarinda, Iowa.

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11 pound drakes and 9 pound dams. You can't do better. Eggs 13 for $2, 26 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes 15 for $1.50, 30 for $2.50, 100 for $6. John M. Hall, Williams, Iowa.

Indian Runner Duck Eggs FAWN and white, pure white eggs. 15 for $1.00, 45, $2.50; 100, $5. Also Light Brahmas, same prices; the best of my 20 years' breeding, fair hatch guaranteed or another order at half price. I breed Shetland ponies. F. P. HEALY, Bedford, Iowa.

Eggs From Champion Rouen Ducks 12 FIRST in 4 years in Chicago. Also prize-winning Buff Rocks; White Maines. Send for circular of winnings. Mention Homestead. Address Henry Schehl & Sons, R. 2, Prophetstown, Ill.

PEKIN DUCK EGGS from extra large stock, good laying strain. Ducks weigh 8 to 9 pounds. Mated to young drakes weighing 10 to 11 pounds. Pen 1, $2.00 per 12; pen 2, $1.50 per 12. Edw. Meyer, Dyersville, Iowa.

Indian Runner Duck Eggs for hatching. Excellent layers. $1 per 15, $2.50 per 50. Address Herbert N. Jenny, R. 2, Clarksville, Iowa.

TRUE fawn and white I. Runners. Ducks scored to 94½, drakes 94½ to 95½. Eggs 13, $1.50, 26, $2.75. MRS. C. A. ROBINSON, Griswold, Iowa

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels, Oakland, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

DOGS.

SCOTTISH TERRIERS THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want. S. Harr, Riverside, Iowa.

SCOTCH COLLIES HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

SCOTCH collie pups, over two months old. Parents are first-class workers and watch dogs. Males $8; females $6. F. Bollman, Wall Lake, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

MISCELLANEOUS.

Dripps Has Fine Poultry

WHITE ROCKS Fishel strain. Eggs from show birds 13, $5.
BARRED ROCKS Eggs from Dripp's finely bred show birds. $1 per 13; $5 per 100.
WHITE LEGHORNS Eggs from Dripp's finely bred snow white show birds of best laying strains, $1 per 13; $5 per 100. Send me your order, mentioning The Iowa Homestead. Address JOHN I. DRIPPS, Springville, Iowa.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS—Barred Rocks, Bronze Turkey—EGGS BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

BARGAIN PRICES EGGS S. C. R. I. REDS, $4 per 100; utility flock, special pens now half price, pens 1 or 2, $2.50 per 15, $4.50 per 30; pens 3 or 4, $1.50 per 15, $2.50 per 30; pens 5 or 6, $1 per 15. Address, mentioning Homestead, L. G. Johnson, Box 4, Steamboat Rock, Ia.

$1 PER 15, $5 per 100 eggs. Barred W. Buff Rocks, R. I. Reds, W. Wydts., B. Langs., Lt. Brahmas buff and white Orps., Leghorns, Toulouse geese, $1.75 per 10; white guineas, $1.50 per 12, bronze and white turkeys, $2 per 7. Monroe Poultry Yards, Monroe, Ia.

EGGS, B. and W. Langshans, S. E. Buff Orps., Lt. Brahmas, R. C. R. I. Reds, $1.50 per 15; $5 per 100. Mrs. S. E. Newell, R. D. 6, Audubon, Iowa.

EGGS for hatching, S. S. Hamburgs, S. C. Anconas, Prt. Wydts., S. C. Buff Leghorns, I. R. ducks, B. P. and W. $1 setting after May 15. E. E. Calvert, Shell Rock, Ia.

B. LANGSHANS, I. R. DUCKS High-scoring stock. Eggs, 75c per 25; $3 per 100. Satisfaction guaranteed. B. A. Randell, Mt. Zion, Ia.

S. C. R. I. Red eggs from great laying strain, good color, 15, $1; 50, $3; 100, $5. F. W. I. R. ducks from prize-winning stock, 15, $1.25. J. E. Lewis, Blaytown, Ia.

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Buy direct from us a Seattle Silo of famous Puget Sound fir—made of timber cut from our forests, worked in one of our six great mills. Sold to you at one profit above manufacturing cost.

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are made of the finest fir in the land. Many trees grow 200 to 250 feet tall. For our silo staves we use only the choicest. Close and straight grain. Free from sap and knots. Wonderfully durable. Seattle Silos have ***patented swinging doors***—quick detachable; no lifting; easily swing in or out; new iron cross-bar or hoop connection; door bars form ladder from which hoops are easily tightened.

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You pay five middlemen's profits on lumber you buy of your local dealer. We sell you at ***one*** profit above ***producing*** cost. Give you choice timber as grows only in the Puget Sound region—give you the benefit of our wonderfully low cost of production. Our six great mills turn out twenty to thirty carloads of materials each day. All orders shipped within 24 to 48 hours. Reach our customers within average of two weeks. ***Satisfaction guaranteed or money refunded.*** Send for price list and catalog. Send bill of materials, if possible, for estimate.

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Lewis' Lye

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A quarter of a can to every barrel of slop, or a teaspoonful to five gallons is sufficient, and may be the means of saving you hundreds of dollars in hog profits this very year.

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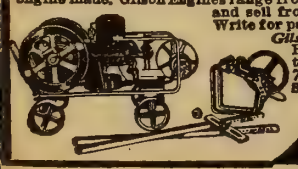
Complete power house on wheels. Carries its own line shaft, pulleys, belt tightener and pump jack. Delivers more service than any engine made. Gilson Engines range from 1 to 27 h.p. and sell from $33.50 up. Write for particulars.



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BINDER TWINE

FACTORY TO FARM. WANT FARMER AGTS
Write quick. AUGUST POST, Moulton, Ia

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

BENEFICIARY ORDER—RIGHTS OF MEMBERS.

Mr. George S. Currie, Baldwin, Iowa.—A certain lodge of a beneficiary order has a social fund made up from quarterly dues, and money taken in from entertainments, dances, etc. The members of the lodge wish to invest this money in a lot and build a hall on it for the use of the lodge. Can they do so and prevent the lot and hall from falling into the hands of the grand lodge in case the local lodge should break up or lose its charter?

Answer.—This question can only be answered, after a thorough examination of the constitutions and by-laws of the grand lodge and the local subordinate lodge. The rights of members, and the relations of the subordinate lodge to the grand lodge, are fixed and determined by such constitutions and by-laws.

COLLECTING STALLION FEES.

A Subscriber, Rock Rapids, Iowa.—A man who is a tenant, bred a bunch of mares to my stallion. The man's landlord has a mortgage on the mares and their increase. Can I collect the charges for stallion service the same as though the mares were not mortgaged? The landlord told me to breed the mares.

Answer.—You can collect the charges for stallion service just the same as though the mares were not mortgaged.

FENCING PRIVATE LANE.

A Subscriber, Barnes City, Iowa.—My farm adjoins the public road; back of my farm away from the road is a farm recently owned by C. For several years he has used a lane on my land next to the division line to go to and from the public road. The lane is twenty-two feet wide. I did not sell it to him, but he agreed to fence it for the use of it. Recently C sold his farm to D and D refuses to fence the lane. Last fall I fenced across the lane at point farthest from public road and put in a good gate for D's use, so he would not be shut in, but he smashed it to pieces and said he would not have it and I could not help it. He still uses twenty-two feet of my land for a lane. I pasture the adjoining field, and there is a poor two-wire fence between lane and field. I want this fence hog tight, as the rest of my land is so fenced. I do not ask D to buy the land, but would sell it. How can I compel D to make a hog-tight fence along the lane?

Answer.—As you did not sell the strip of land, nor the right of way over it to either C or D, and have no contract about fences with either, you cannot compel D to fence the lane. D has no right to use it at all. You can lawfully close the lane at both ends, and turn the ground back into your field, and if D breaks fence you can recover damages and restrain him by injunction. The only lawful way by which D can get access to the road would be to condemn a right-of-way for a lane over your ground, and to do this he must pay you part compensation, and then the law requires him to fence the lane on both sides.

STANDING GRADE STALLION.

A Subscriber, Van Horn, Iowa.—What is the law in Iowa in regard to two-year-old grade stallions kept for public service?

Answer.—The owner or keeper of every stallion or jack over two years old, kept for public service, or for sale, exchange or transfer, shall make oath that the stallion or jack is, to the best of his knowledge, free from hereditary, contagious or transmissible disease, or in lieu thereof, a certificate signed by a duly qualified veterinarian who shall be a regular graduate of a recognized veterinarian college, certifying that such animal is free from hereditary, contagious or transimissible disease, and shall file the same with the secretary of the state board of agriculture. Also, the owner or keeper must advertise the horse by printed posters not less than five by seven inches in size, and have the word "Grade Stallion" printed thereon above the name of the stallion, in type not smaller than one inch in height, said posters to be posted in a conspicuous manner where the stallion is kept for service, and the certificate of soundness must be posted in like manner.

Phelps' FREE BUGGY BOOK

Write today *sure* for Phelps' new book on Split Hickory Vehicles. Shows largest selection in America—over 140—full and complete line of harness styles. 167,000 regular customers already. Phelps ships *direct* to you from his mammoth factories—no dealers' profits. You ought to have this fine book whether you buy now or later. It is buggy authority. Then too—

PHELPS Guarantees to Save You $25 to $40
Gives You a 30 Days' Free Road Test

Don't buy a buggy without Phelps book and low prices. Auto Seat Buggies, Runabouts, Surreys, Carts, Carriages, Spring Wagons, etc.—all of the famous *genuine* Split Hickory construction. Write immediately and get free book by return mail. Phelps pays the postage, too.
Address H. C. PHELPS, President

H. C. PHELPS — The Ohio Carriage Mfg. Co., Station 31 Columbus, O. — *2 Years Guarantee*

HERE'S A PRESENT FOR YOU

I have one of the most perfectly made buggy whips on the market, six feet long with a strand of rawhide running from butt to tip.

THIS WHIP IS FREE

to those who answer this advertisement during the month of June. This offer will positively be withdrawn July 1st. We only have a limited supply and cannot insure delivery after that date.

My Unsurpassed Offer.

Send me only $1 for one year's subscription to The Iowa Homestead and I will send you this rawhide filled buggy whip, postpaid, free of charge by parcel post. Address all orders to

James M. Pierce - Pub. Homestead
Des Moines, Iowa.

Date.....1913.

James M. Pierce, Des Moines, Iowa.

Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Homestead one year. Send me free of charge your buggy whip.

My name.....

Postoffice.....

Rural Route..... State.....

My Guarantee

Send me $1 for one year's subscription to The Iowa Homestead. I will mail you one of these whips. If it is not as described, return the whip and I will refund your money.

I'll Stop Your LOSSES FROM WORMS

"There is no doubt that Sal-Vet saved my entire herd of hogs. On all sides of my farm other farmers lost nearly every hog they had. I shall always aim to keep "Sal-Vet" or no hogs."
PETER V. CAREY,
Route No. 5
Fairfield,
Ill.

I'll Feed Your Stock 60 Days Before You Pay

I'll SAVE Your Sheep and Hogs

Don't let worms breed contagious diseases among your hogs this year. Don't let them kill off the young pigs and lambs and rob you of your season's profits. You can prevent it if you will just take "a stitch in time." Now is the time when worms get in their deadly work. Now they are breeding—multiplying by the millions in the stomach and intestines and if you don't get the best of them they will surely get the best of you. I'll rid all your stock of these destructive pests. I'll prove it before you pay.

The Great Worm Destroyer **SAL-VET** **The Great Live Stock Conditioner**

is a wonder working medicated salt to which your hogs, sheep and other farm animals can run freely and doctor themselves. It requires no dosing, starving or drenching. Costs only 1-12 of a cent a day for a sheep or hog and a trifle more for larger animals.

Send No Money—Just The Coupon

Just fill out the coupon at right—tell me how many head of stock you have and I'll ship you enough "Sal-Vet" to last all of them 60 days. No simply pay the freight charges when it arrives and when the 60 days are up report results. If it fails to do what I claim, I'll cancel the charge—you won't owe me a penny. Send the coupon now. Address

SIDNEY R. FEIL, Pres. (121)
The S. R. Feil Co., Dept. H, Cleveland, O.

More Proof

"My sheep were sick and dying, but "Sal-Vet" stopped my losses. I was out of the preparation for about a month, and the animals again commenced to die. As soon as I began to feed the second lot of "Sal-Vet" the losses again stopped and I have not lost one since."
Silas C. Millsaps,
Springfield, W. Va.

PRICES: 40 lbs., $2.25; 100 lbs. $5; 200 lbs. $9; 300 lbs. $13; 500 lbs. $21.12. No orders filled for less than 40 lbs. on this 60 day trial offer. Never sold in bulk, only in Trade-Marked Sal-Vet packages. Shipments for 60 days' trial are based on 1 lb. of Sal-Vet for each sheep or hog, and 4 lbs. for each horse or head of cattle, as near as we can come without breaking regular size packages.

SIDNEY R. FEIL, Pres.
THE S. R. FEIL CO.
Dept. H6-5-13 Cleveland, O.

Send me enough Sal-Vet to last my stock 60 days. I will pay the freight charges when it arrives, report results within 60 days and will then pay for it if it does what you claim. If it does not, you are to cancel the charge.

Name.....
P. O......
Shipping Sta......*State*.....
No. of Sheep.....*Hogs*.....*Cattle*.....*Horses*.....

Queen Cupola On Free Trial.

Prove for yourself at our risk that this cupola will ventilate your barn and keep your stock healthy. Galvanized steel. Handsomer, cheaper and better than wood.

Is Proof Against Rain, Snow, Nesting Birds.

You will get rid of the bird nuisance and your hay will not be dampened. No painting or repairs. Boy can put it up. Lasts a lifetime. Gold leaf vane with each cupola.

Write for Free Catalog and FREE Trial Offer. Do it Now.

QUEEN CUPOLA COMPANY
310 Peck Street
CRESCO - IOWA

BELL CUPOLA

Galvanized steel.

Sold only direct to the farmer. We have a system that will pay you to investigate. Write for catalog.

Strayer Mfg. Co.
CRESCO - IOWA

Protect and Store Your Grain! Keep rats, rain, etc. out. Hold for best market prices. Save time in filling and removing grain. The

Bushnell Galvanized Steel GRAIN BIN
—can't rust, break or wear out. Costs no more than wood—lasts forever. Portable. Big door and convenient spouts. Send name on postal now for interesting booklet and low prices. Address
Bushnell Tank Works, 700 Dean St. Bushnell, Ill.

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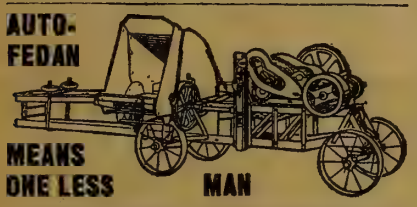

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Because you pitch into the hopper instead of on the table. Both belt and horse power. Ask for catalog No. 62.
THE AUTO-FEDAN HAY PRESS COMPANY
1563 W. 12th St., Kansas City, Mo.

Agricultural Education

COLLEGE training for farm and rural life work gives increased efficiency and earning power. Six four-year courses in agriculture and home economics. A two-year course for boys and a two-year homemakers' course for girls. Write for catalog. Address
CHAS. F. CURTISS, Dean,
Iowa State College, Ames, Iowa.

COW-PEAS
AT VERY LOW PRICES
MILLET, CANE, SOY BEANS AND ALL FIELD SEEDS Send for descriptive booklet.
SHULTZ SEED CO., Olney, Ill.

KILL THE LICE

SAVE your horse, cow or calf by using Conrad's lice cure. No biting or rubbing after first application. It is absolutely harmless, will not take the hair off. Satisfaction guaranteed or money refunded. Enough to make 1½ gallons, $1.00. Address Conrad's Poultry and Stock Farm, Lock Bock 686, Cedar Rapids, Iowa.

BEES for the FARM
Need little attention and pay big profits. If you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.
THE A. I. Root Co., Box 314, Medina, O.

BEES Your own honey. Send today for free catalog of **Bee Supplies** and sample copy of the **American Bee Journal**, oldest bee paper in America and indispensable to the bee keeper. Dadant & Sons, Box C, Hamilton, Illinois.

THE ONE-ROOM SCHOOL MENACE.

(Continued from page 3.)

1,567 with more than twenty but less than thirty. There were 461 schools with fewer than fifteen pupils and 1,795 with from fifteen to twenty-five pupils. There were 1,234 schools with an average attendance of fewer than twelve, and 3,061 with an average attendance of from twelve to twenty; forty-one schools were in session less than four months, and 748 between four and six months. There were 1,106 schools which had a "divided term" with at least four weeks between the two sessions.

Nebraska.—Of the 6,604 one-teacher schools in the state, 445 had in 1910 an average attendance of less than six pupils; 1,488 from six to eleven; 1,761 from eleven to sixteen; 1,174 from sixteen to twenty-one; and 833 from twenty-one to thirty-one, making a total of 3,694 with an average attendance of fifteen or less, and 5,701 with an average attendance of thirty or less. There were 410 districts which maintained school less than three months or none at all; 5,651 maintained schools from three to six months; 4,132 from six to nine months; and 1,964 nine months or more. The average number of days in the session in all districts was 139.

Wisconsin.—In the 6,494 one-teacher schools in the state, 4,403 have thirty or fewer pupils. Of this number, ninety have fewer than six; 381 from six to eleven; 668 from eleven to sixteen; 933 from sixteen to twenty-one; 1,163 from twenty-one to twenty-six; and 1,168 from twenty-six to thirty-one.

In view of such a sorry condition in states otherwise prosperous and progressive, what is to be done? The government's experts name three things:

First, improved buildings, with strong commendation for consolidated schools.

Second, improved teaching, with teachers specially fitted to instruct pupils in everyday affairs, such as elementary agriculture and domestic science.

Third, proper supervision of school affairs, by competent boards, with the county unit (rather than the township or district unit) given strongest commendation.

In the final analysis, the government experts have this to say of conditions and possible cure:

The great number of one-room schools, including a large number with very small enrollment, the large proportion of them which are housed in insanitary, uncomfortable, ugly buildings with little equipment and with rough furniture, the great number of poorly educated and untrained teachers, the low salaries paid them, and the short length of service given them in the same position are all indications of inefficiency. It is true that a good school may exist in the poorest building and with the poorest equipment, but, as a rule, the condition of the building and equipment is a good indication of the instructional work of the school. In other words, instructional work of a high grade in a school reacts upon the material equipment, for whether the good instruction is due directly to the teacher or indirectly to a good supervisor through her, its influence is sooner or later felt by the school directors and by the school patrons, and results in a general improvement of the material facilities. Investigation, as far as it has been carried out, seems to show that, as a rule, wherever the greatest advance has been made in rural schools, improved buildings and equipment have followed improved teaching. It seems, therefore, that the question of the teacher is of the greatest importance and with it the question of supervision and the organization and administration of the school system, because no widespread improvement in teaching is possible unless proper supervision is provided and the school affairs are properly managed.

In view of the fact, therefore, that the situation, while sorry is not without hope of cure, it behooves all who have at heart the welfare of rural sections to take a hand in pulling the country school out of the valley of desolate despair in which it has been allowed to remain all too long. Consolidation is going on in every state, financial aid to schools which teach elementary agriculture and domestic science is being given by various states, schoolhouses are being opened at night as community centers, schoolgrounds are being improved and beautified, school-teachers are being prepared as scientifically as engineers or doctors. In view of such progress the prospect is not altogether dark.

Ask your neighbor to subscribe for The Homestead.

You Need Empire Fertilizers

to enable your crops to take advantage of good weather conditions. No matter how fine the weather or how good your own cultivation of the soil, there is never enough plant food in the soil of the **available** sort to produce the largest possible crop. Why not take the advantage good weather and cultivation can give you with the aid of our ready-to-act plant food? A small amount to the acre supplies just the **available** elements needed to produce large crops of vegetables, grain or forage.

EMPIRE FERTILIZERS

These fertilizers supply to growing crops in available form the plant food elements required which in connection with good seed, cultivation and weather and the plant food supplied by the soil and air, are producing good crops of profitable size and quality. Farmers depend upon them as upon other old friends, and have done so for years.

Agents wanted where we have none. Address early for prices and terms,

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429 Locust Street, St. Louis, Mo.

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Handsome, illustrated booklet giving **30 convincing reasons** for buying the powerful, low down, underslung, cut-under oak frame, Appleton Silo Filler, mailed **free.** Write for it to-day.

APPLETON MFG. CO., 439 FARGO ST., BATAVIA, ILL., U. S. A.

Free Alfalfa Seed For Summer Sowing

Your farm is worth twice as much if it will grow Alfalfa successfully. Our Free Seed Offer is made for a short time, good only until August 1, 1913, to enable you to sow a test patch of Alfalfa on your farm this summer. Sow it according to our directions and learn how to make this Wonderful Crop succeed on your land.

Just mail the coupon and we will promptly mail the sample of seed, enough to sow a square rod, together with our latest and best booklet: "Dickinson's Alfalfa Facts." This booklet gives full information on planting, harvesting, and feeding Alfalfa. It is worth big money to you, but **it is free for the asking.**

"Pine Tree" Seeds Succeed

Send for the free seed and booklet right away, before the planting season has passed by.

Mail the Coupon Today

The Albert Dickinson Co., Sales Department, 37X
Taylor Street, Chicago

Please send me a test lot of "Pine Tree" Alfalfa Seed and your booklet, as per your free offer. I agree to plant the seed this year according to your instructions.

*My Name is*_____ *R. F. D. No*_____

*Town*_____ *County*_____ *State*_____

*My Dealer's Name is*_____

*His Town*_____ *State*_____

Get Your Cream Separator NOW

and Save Half

HERE is the opportunity you have been waiting for—a chance to get one of these big-capacity, light-running, easy-cleaning, close-skimming New Butterfly Cream Separators without taking the money out of your pocket.

Try It 30 Days—Then Decide

By paying only $2 down, you can get the biggest machine we make, use it 30 days *free*, then if you decide to keep it pay us the rest of our low factory-to-farm price (only $24 and up) in small, easy installments. You use the machine while it is earning its own cost and more. You don't risk a penny. We pay freight both ways if separator fails to please you.

$2 DOWN
Only
One Year To Pay

New Butterfly Cream Separators

will make you $10 to $15 a year more profit from every cow you own. They are handsome, high-grade, durable machines. No other separator costs more to make, has so many patented improvements or gives you as much value for your money. We prove this on your own farm, or no sale. Read this letter ☞

I would not exchange it for any other separator. It skims perfectly clean and is so easy to wash. ED. SCHMIDT, Davenport, Ia.

No. 5½ Skims 300 quarts an hour

Thousands in Daily Use

Write for free catalog folder. Pick out the size that exactly suits your requirements. We will ship it to you on our easy payment terms of only $2 down and let you try it 30 days on your own farm. When the 30 days are up, **if for any reason** you are not pleased—if you don't prefer the New Butterfly to any other separator you ever saw or used—just return the machine to us. We will pay the freight both ways and refund your first payment. You won't be out a single penny.

Guaranteed a Lifetime

Every New Butterfly Separator is guaranteed against defects in material and workmanship, regardless of how many years you have used it. No other separator manufacturer will give you this signed lifetime guarantee. Write for Free Catalog Folder.

Only $24 and Up

According to Style and Size

Note these special features: No disks to wash and rust out. Skimming Device is complete in one piece—made of aluminum—the "everlasting" easy-cleaning metal. Shelby Seamless Steel Bowl, phosphor bronze bearings, vertical shaft, rachet crank, self-draining bowl, low-down self-draining milk supply tank, closed bottom, open milk and cream spouts, oil-bathed ball-bearings and many other exclusive features.

Catalog Folder FREE

Contains letters from many users, large colored illustrations, shows how every part is made, and tells you all about our factory-to-farm self-earning separator plan. WRITE FOR IT TODAY.

Albaugh-Dover Co.

2294 Marshall Blvd. CHICAGO

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Dairy Cleaning Easily Done

Old Dutch Cleanser halves the work in the dairy. The milk pans, pails, churns and cream separator are thoroughly cleaned in half the time with half the effort, if Old Dutch Cleanser is sprinkled on cloth or on the article cleaned. It leaves the milk utensils shinning, clean and sweet.

It quickly removes cream clots and milk stains from shelves, benches and floors.

Old Dutch Cleanser does equally as well anywhere on the farm where cleaning is done.

Old Dutch Cleanser

Many Uses and Full Directions on Large Sifter Can—10c.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

CONDENSERIES OR CREAMERIES.

To the Editor of The Homestead:

Recently the writer has made a study of the dairy industry in the state of Utah. The northern part of the state is famous as a dairy section. The region has alfalfa, plenty of pure mountain water and an invigorating atmosphere. Pasture is lacking, or at least, never has been developed, yet dairying is thriving, the dairy farmers are making money and the business is looking up decidedly. In another valley the natural facilities in the points mentioned are equal with the added value of natural pastures of excellent quality.

A short time before the writer saw the request in a recent issue of this paper for articles on creameries and condenseries, he made a verbal report concerning the second region mentioned above. His exact words were: "What that country needs is a condensery that will put the market on a sound, reliable and substantial basis. If a condensery is put in there we can expect it to be as good a dairy section as the one found in the northern part of the state."

It is difficult to find a more prosperous dairy community than in northern Utah where four condenseries are operating in one valley. A price per pound for butter fat is stated each month which is strictly adhered to for thirty days. For the month of May, 1913, the price per pound for butter fat was thirty-seven cents. The people are satisfied. The centralizer creamery and the sweet cream market are bidding constantly for the product. Yet from three stations in the localities of which there are probably 3,000 cows, it is to be doubted if the cream from more than 100 cows is shipped. The two cow-testing associations in the state are in that valley.

In the other dairy section conditions are not so prosperous. There are several creameries. They are in a more or less unsettled condition. One of them suffered for a year or two under a dishonest manager. At the present time the entire cream product is shipped to a centralizer. The people have lost heart to some extent and are looking to sources other than dairying for their income. In other towns prices and conditions are frequently demoralized and men are deciding to quit the business. There is not the sound progressive tone to dairy affairs that is found in the locality where the condenseries are in operation. There are fewer high-class cattle and prices are lower from five to ten cents per pound for butter fat. Truly in the opinion of the writer a condensery would be a stimulant to dairying and a blessing to that community.

There are disadvantages in selling milk to condenseries. They take the whole milk and do not leave any by-product. That creates a tendency to neglect the calves. Frequently in public addresses and in private advisory work the writer has urged dairymen who sell to condenseries to skim a sufficient amount of milk to feed their calves. If necessary they can take five cents per pound less for butter fat in order to get skim milk for the calves. That would give them skim milk at about twenty cents per hundred. There are no hogs, or, at best, few in the condensery district. Neither are there in the creamery section.

Condenseries have done a great deal to advance the dairy interests in the West and will do so in any community.

H. E. McCartney.

ACCOMPLISHMENTS OF IOWA STATE DAIRY ASSOCIATION.

The Iowa State Dairy Association, one of the pioneer organizations of its kind, has accomplished very creditable results. It is composed of nearly a thousand creamerymen, dairymen and farmers who represent every locality in the state. Its purpose is to bring the producer and manufacturers of dairy products in closer touch and therefore work out the problems which are of vital interest to each.

Realizing the important part which dairying plays in permanent agriculture, and the necessity for its improve-

Square Deal On Cream Separators

Let me tell you one sure thing: The Beatrice is the only standard separator on the market that you can buy at a fair-play price. A square deal—that's what you get when you buy a

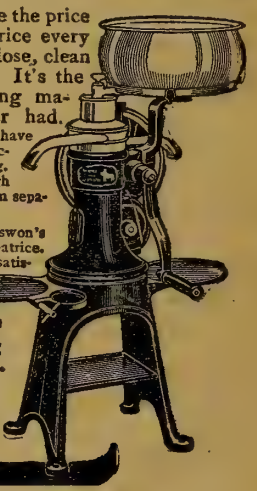
BEATRICE Cream Separator

Most dealers ask $100 up for a high-grade separator. I paid $75 for my Beatrice. I don't think I ever had so much cream separator satisfaction.

Why, I can clean the bowl and disc *in less than 2 minutes*, with the patented device furnished free with the separator. They come out as clean and as spotless as a new penny and as sweet as a nut.

I figure I save the price of my Beatrice every year by its close, clean skimming. It's the easiest-running machine I ever had. My repair bills have amounted to practically nothing. It's a sure-enough built-to-last cream separator.

Take Farmer Onswon's advice. Get a Beatrice. Get on the list of satisfied separator users. See your dealer or write to



THE BEATRICE CREAMERY CO.
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Lincoln, Neb.
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Cow-Ease

Prevents Ticks.

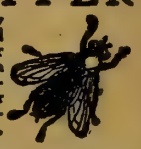
KEEPS FLIES OFF

Cattle and Horses

and allows cows to feed in peace, making **More Milk** and **More Money** for you. A clean, harmless liquid preparation, applied with a sprayer. Keeps cows in good condition, and saves five times its cost in extra milk.

TRIAL OFFER

If your dealer cannot supply you, send us his name and $1.25, and we will deliver prepaid to your address a half-gallon can of COW-EASE and SPRAYER for applying. For West of Missouri River and for Canada, above Trial Offer, $1.50.



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Floors, Furniture and Interior Woodwork
USE
Campbell's Varnish Stain
All sizes and colors, at Paint & Hardware Dealers
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Save $35 to $50

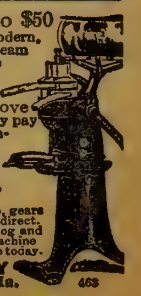
Yes sir, I'll save you $35 to $50 in the first cost alone on the best, most modern, most sanitary and closest skimming cream separator ever built. When you buy the

New Galloway Sanitary

—you pay just one small profit above actual cost of materials and labor. Why pay any dealer $85 to $110 for an inferior machine. Buy direct and save one-half. Get my

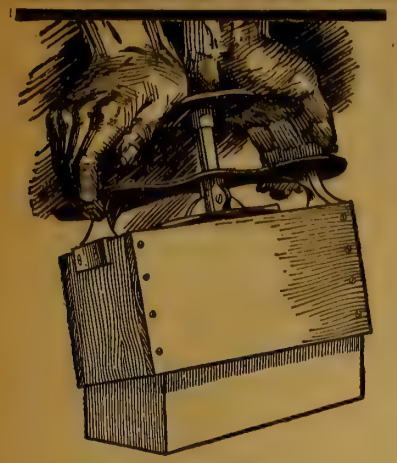
Special 1913 Offer and 90 Days FREE TRIAL

test of this machine right on your farm. The new Galloway Sanitary skims to a trace, gears run in oil—easy to run—easy to clean. Sold direct. Backed by $25,000 bond. Write for new catalog and special 1913 offer that will help you get your machine partly or entirely without cost in the end. Write today.



WM. GALLOWAY COMPANY
13 Galloway Station, Waterloo, Ia.

463



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Your butter may just fall short of the perfection that commands the highest price.

Ordinary salt fails to bring out full flavor.

The fine, even grains of Worcester Salt melt right into the butter. Its absolute freedom from bitterness insures that full and complete savor and tastiness which command the highest market price.

WORCESTER SALT

The Salt with the Savor

Send us your dealer's name and address and we will mail you, free of charge, our booklet, "Butter Making on the Farm."

For farm and dairy use, Worcester Salt is put up in 14-pound cotton bags and 28 and 56-pound Irish linen bags. Good grocers everywhere sell Worcester Salt. Get a bag.

WORCESTER SALT COMPANY

Largest Producers of High-Grade Salt in the World

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Special Proposition To Silo Buyers.

It will pay you to get full details of our offer before you buy any silo. Get our big portfolio showing how other farmers make big profits. Get our special factory prices on

Champion Silos.

The kind that makes good. Has all modern improvements, continuous door front, special anchors, double latch ladder, etc.

WESTERN SILO CO.
100 7th St. Des Moines, Iowa.

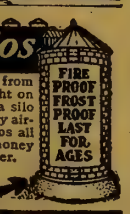
Get Our Big Catalog.

Kalamazoo SILOS Last!

Construction is right, material is right. Only silo made with full-length, structural steel door frame heavily galvanized after the riveting. Not a crevice exposed to rust. Choice of seven kinds of wood. Inflexible guarantee. We prepay freight. Catalog shows many more fine points, write for it today. Address Dept 26

KALAMAZOO TANK & SILO CO.
Kalamazoo, Mich. Kansas City, Mo.
Minneapolis, Minn. Ft. Worth, Texas

Kalamazoo Silos



Easily made, easily erected. Molded from cement with an inexpensive mold right on your farm by any farm hand. Makes a silo like rock, frost and fire proof, positively air-tight. We also sell guaranteed tile silos all ready to put together. Either silo big money saver. Write for booklet and special offer.

CEMENT & TILE SILO CO.
Dept. 55 Kalamazoo, Mich.

GUERNSEY CATTLE.

WE NOW OFFER 30 HEAD

of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address

WILCOX & STUBBS CO., DES MOINES, IOWA

MINERAL HEAVE REMEDY

$3 package cures any case or money refunded. $1 package cures ordinary cases. Mineral Heave Remedy Co., 422 N. Fourth Av., Pittsburgh, Pa.

ment on the average farm, the members appealed to the legislature for financial aid. It was not difficult to convince the legislators that such a worthy cause should be supported by state funds, and during the past five years $25,000 has been appropriated for dairy educational work.

Since the establishment of the educational department a vigorous campaign has been conducted. An effort has been made to reach the producer in such a manner as to interest him in improving his herd, his feeds, his accounts, etc., in a practical way, which would bring about a gradual change with a minimum cost.

Creameries in every section of the state that found difficulty in securing a sufficient amount of butter fat, or that had trouble in the quality of the raw product received, were at once anxious to co-operate in the holding of meetings. Farmers' institutes have devoted a goodly portion of their programs to dairy subjects and have called upon lecturers employed by the association. Contests have been inaugurated at the county fairs, breeders' associations formed, dairy short courses held and literature pertaining to timely subjects on dairying scattered broadcast.

One of the most important features of the work has been the establishment of a great dairy show in conjunction with the annual convention. Last year this show was unsurpassed by any similar event in the world. It brings dairy cattle breeders with their choice animals from every part of the United States and offers the farmers of not only Iowa but the Mississippi valley an opportunity to become acquainted with the various breeds. Premiums are offered for butter, cheese and milk which, in addition to the display of dairy appliances and farm implements, brings thousands of prosperous farmers. The convention proper is held in a building on the grounds, and the subjects chosen for discussion are handled by authorities in each particular line.

As a means of meeting large numbers in a limited time the special dairy train has been used with excellent results. Thus far eight of these trains have been run. Each has been on the road two weeks or longer, and, as the lecturers lived on the train, every hour was utilized. These specials have enabled the speakers to reach over 180,000 farmers and their families. Meetings have been held in 595 towns and ninety-four of the ninety-nine counties in the state have been visited by the specials. The trains carried lecture coaches for men, ladies and children. Besides the apparatus carried in the coaches, a baggage car equipped as a model dairy barn and containing representatives of the dairy breeds was used for demonstration purposes.

The results of the work are gratifying. Iowa is rapidly taking her rightful place among the dairy states. System is being introduced and the unprofitable animals are being replaced by the dairy breeds. The silo is considered a necessity and the legumes are found where formerly less valuable crops grew. The introduction of the pure-bred sire, economical feeding and intelligent care are revolutionizing the industry. Following these improvements, as a natural sequence, come the substantial farm buildings and attractive homes which make a permanent agriculture.

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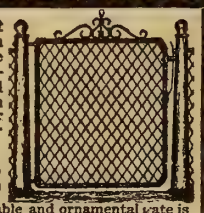

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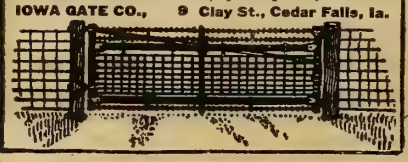

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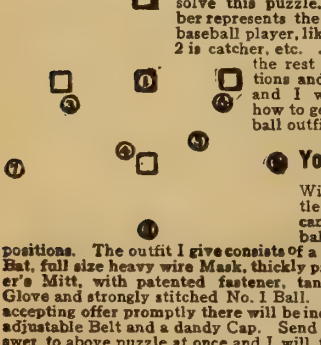
Can You Name the Positions



If you love to play ball, you should know the name of each position. If you do, you can solve this puzzle. Each number represents the position of a baseball player, like 1 is pitcher, 2 is catcher, etc. Just mark in the rest of the positions and send to me and I will tell you how to get a fine baseball outfit FREE.

You Can Do It

With just a little thinking you can name the balance of the positions. The outfit I give consists of a splendid Ash Bat, full size heavy wire Mask, thickly padded Catcher's Mitt, with patented fastener, tanned Leather Glove and strongly stitched No. 1 Ball. To all who accepting offer promptly there will be included a neat adjustable Belt and a dandy Cap. Send me your answer to above puzzle at once and I will tell you how to get the outfit. **C. F. Brann, 802 2d St. Des Moines, Ia.**

When writing to advertisers please mention The Homestead.

THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

In "The Iron Woman," Margaret Deland relates the story of a boy who from early childhood had a sort of repugnance to his mother because of her homeliness and untidiness. As a little fellow, Blair Maitland envied his playmate, David Ritchie, whose mother was pretty and always prettily dressed. As he grew older the carelessness of his mother about her appearance and the unloveliness of his home so oppressed the boy that he felt ashamed and longed to get away from them.

More often than we give them credit for, children are conscious of their environment; always they are affected by it. Where a house is untidy, the table is ill set and the food invitingly served, children eat like little animals and their characters lack the influence of the self-restraint necessary to refined ways of living. The child who eats greedily at home will be grasping abroad; the child who is never taught the courtesies of a refined table will be uncouth and ungracious at other tables. He is thus robbed of a very necessary part of the equipment of life—he is sent unarmed to a combat which calls for full armor to insure victory.

In homes where the house mother is burdened with work there is constant temptation to carelessness in dress, to rude table service and to neglect of training in manners. If such a mother fail sometimes there is every excuse for her, but it should be her aim to consider the training of her children in refined ways as of hardly less importance than their training in morals, and it should be her daily endeavor to create such an atmosphere of refinement in the home that, unconsciously, her family will imbibe ideals and acquire habits that will enable them to hold their own in any society and to look back upon their home with affection when they reach maturity.

HOME AND HOMEMAKING.

THE FOUR-LEAF CLOVER.

One leaf is for hope and one is for faith,
And one is for love, you know;
And God put another one in for luck—
If you search you will find where they grow.

But you must have hope and you must have faith,
You must love and be strong, and so—
If you work, if you wait, you will find the
Place where the four-leaf clovers grow.

NATURE STUDY FOR THE LITTLE ONES.

Children are naturally interested in outdoor things, and all that a mother needs to do to make a small naturalist of her child is to direct and call his attention to the beautiful things of nature that seem to us too obvious for comment. Ask the little one to tell you the colors in the sky every day at sunrise and at sunset. One mother called the beautiful sunrise or sunset, as viewed from the window, "God's pictures," and the children often ran to her in delight, saying, "Mother, come and look quick, God has made another picture." Ask the child to look for birds every day, noting their plumage, the way they fly and their calls. Children love to collect things, and this instinct may be turned to educational uses if they are encouraged to make collections of different varieties of leaves, wild flowers, beautiful pebbles and shells, noting the colors and shapes of each.

AN EFFECTIVE REMEDY.

A very simple and effective cure for poisoning from sumac, poison ivy or poison oak is obtained from boracic acid. Bring a solution of the acid to the boiling point. Wring woolen cloths out of it and lay upon the affected part as hot as can be borne, covering with another woolen cloth to keep in the heat. When cool repeat. Keep this up for twenty minutes; then wait two hours and repeat again. It does not burn as might be expected, but stops both the burning and itching, and is very soothing.

HOUSEHOLD HINTS.

When powdered sugar gets hard run it through the food chopper. This is an easier way of breaking up the lumps than using a rolling pin.

Always remove the cake of fat that settles on the top of cold soups. If allowed to remain the soup will turn sour more quickly than it otherwise would.

Before blacking the stove, draw the ends of fingers across a bar of hard soap, scratching off enough to fill under the nails and so keep the blacking from lodging there; which is so difficult to remove.

A splendid way to improve the appearance of a cook stove is to take the soap suds after washing clothes and wash the stove all over with the suds, then use the stove polish as usual. This certainly improves the appearance of a stove greatly by making it shine brighter. Also use the suds on your sad irons before ironing. This helps greatly toward making them smooth.

A rubber doormat or one of the cheaper coco fiber or heavy rope mats is elastic to the step. For that reason it is helpful to have one in the kitchen to stand upon when washing, ironing or washing dishes. You will be surprised, as I was, to find how much less tired you get after standing for several hours at work.

AMONG OURSELVES.

A message and a bit of verse from Electa McCullough emphasizes something I am always glad to have given prominence in our Home Department:

The home embraces not merely the family, but also the friends of the farm and house—the animals that serve us so faithfully. The horse and cow are useful servants, and are often friends, but for pure love, commend me to the good dog. As this paper likes dogs and dog poetry, this doggerel is offered, and perhaps it wil please the children:

TO A TINY TERRIER.

My pretty Flirt! you are the dog
Of all the dogs the best;
Say, who would think so true a heart
Is beating in your breast?
Affection always there abides!
Whatever be my mood
The message in those shining eyes
Is love and gratitude.
Although I sometimes do neglect
And scold my little pet
How ready is she to forgive,
How ready to forget.
How prompt to know my slightest wish,
Or go at my command,
Without a thought of a reward;
Is not such service grand?
My little dog! I well may learn
A lesson from your ways—
To do my duty as I ought
For neither pay nor praise.

Dumb creatures have such a large part in the life of the farm that it specially behooves dwellers on the farm to recognize their worth and reward their services. As summer comes on let us be careful to see to it that our animals have shade and water and that the horses that work so hard in the fields are given the best of care. Our thanks to Electa McCullough for the verse which leads our thoughts to those who are so dependent upon us.

After quite an absence Mrs. Mabel Porter, better known Among Ourselves as "Arkansas Pioneer"—though she is not in Arkansas at present—she is with us today:

Recently I heard a man say, "The world is keeping a record of some of the crops of Kansas—the wheat, the corn and the fat cattle. These are duly recorded and heralded from one publication to another and yet the 'man' crop is never mentioned either as to quality or quantity." He then proceeded to show how the farmer thought more of his steers than he did of his sons. What he said was very plausible, but down in my soul I felt it was not the truth. To obtain money the farmer promotes every honorable device. He publishes and heralds and works and strives, but his money, his striving is all for the boy—the family. He feels that the boy is his own personal interest and not a thing to advertise. However, a lurking fact we cannot dodge is that we are dangerously near the brink of destruction if our money-making schemes come between or separate us from the boy. Too often being burdened with the necessities of life we neglect our duties. Each father owes the boy a certain amount of character molding of the proper kind. It is each one's duty to learn about these matters. There is much scientific research, much truth and many statistics behind much instruction given us on the lines of child training. I would suggest to the mothers who read that they neglect not the literature that pertains to the building up of reliable characters. Do not depend on some college you are going to send them to—that will be too late. Those who succeed in college or elsewhere are

The Biggest Thing in the Clock Business

Big Ben is the biggest thing today in the alarm clock business.

He is only two years and a half old, but he's already getting more work from the States than any clock alive.

In two years and a half time, 18,000 jewelers—70% of the total number of United States watchmakers — have already adopted him. Two million and a half families leave it to him to call them up in the morning. Two million and a half families use him all day long to tell the right time by.

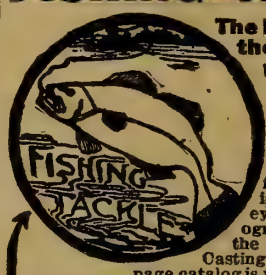
He is really two good clocks in one—a crackerjack of a timekeeper and a crackerjack of an alarm.

Big Ben stands seven inches tall. He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves. He rings *five minutes steadily or ten intermittently*. If he is oiled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is $2.50 anywhere in the States, $3.00 anywhere in Canada. If you can't find him at your jeweler's, a money order mailed to *Westclox, La Salle, Illinois*, will send him anywhere you say, express charges prepaid.

BIG BEN

FISHING TACKLE



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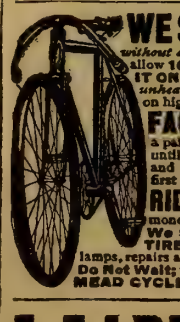

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Stewart Hartshorn

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those who have the character for the foundation.

All of which is very true and should be heeded by fathers of boys. By the way, summer is the time when the ambitious father is apt to put dollars ahead of the welfare of his son by giving the lad tasks too heavy and too many. This is a dangerous proceeding. Not only is there danger of the boy taxing his immature body, but—what is equally important—there is danger that he will learn to think of the farm as a place of all work and no play and plan to get away from it as soon as he can.

Our good friend, Mrs. Mary Eleanor Kramer, will today finish the talk which so interested our housewives last week:

Boiled Onions With Vinegar Sauce.—Select onions as large as walnuts. Peel and boil in salted water until tender. Drain, put into a covered vegetable dish and keep warm. Make a sauce by boiling together one cup of weak vinegar, a tablespoonful of butter, salt and pepper to taste, let boil two minutes, pour over the onions and serve hot. For creamed onions boil onions as above and substitute a cream sauce for the vinegar sauce.

Green Peas.—Shell the peas, then wash the pods well. Put the pods into a kettle, add water to cover and boil twenty minutes. Remove from the fire, drain through a colander and use the water for cooking the peas. Boil the peas from twenty minutes to an hour and a half (according to age of the peas). When tender drain. (Save the water for soup.) Add to the hot peas a heaping tablespoonful of butter, a half teaspoonful of sugar and a little pepper. Shake the kettle well for three minutes and serve. Creamed peas may be served by pouring over the drained, cooked peas a hot cream or white sauce.

Carrots and Green Peas.—Scrape and cut into dice one pint of young carrots. Boil in salted water until tender, drain. In a second vessel cook one pint of green peas in salted water until tender, then drain. Now mix the peas and carrots, add pepper to taste, and season with a tablespoonful of butter and three tablespoonfuls of rich, thick cream.

Green Pea Salad.—Boil peas until tender, drain and cool. Line a deep salad bowl with lettuce leaves; on each leaf place a spoonful of the cold peas, dust with salt and pepper, and over all pour a boiled salad dressing made by mixing together one dessertspoonful of dry mustard, one-half teaspoonful of salt, one-quarter teaspoonful of celery salt, one tablespoonful of butter. Stir thoroughly, add the yolks of two eggs. Beat well; add one cupful of milk, cook until it begins to thicken. Remove from the fire. When cold add two tablespoonfuls of vinegar, beat thoroughly and pour over the salad.

Spinach Salad.—Wash half a peck of fresh spinach, put in a steamer and steam for fifteen minutes; turn into a colander and drain. Chop fine, season with salt, pepper and two tablespoonfuls of melted butter. Mix well and press into small molds or cups. When cold, turn out each mold on a separate lettuce leaf, put on top a spoonful of mayonnaise or boiled dressing, garnish with a sprig of parsley and a slice of hard-boiled egg and serve.

Housewives are sometimes at a loss to secure variety without an expenditure of labor which circumstances do not justify, hence one who contributes recipes which provide simply prepared dishes "a little different" is always welcome.

"A Reader" asks if it is injurious to spray currant bushes with Paris green after the currants are half grown. An early reply will be appreciated.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

BIRDS.

(First prize.)

I like birds very much. The hawk, blue jay, kingbird and sparrow are the only birds which papa will let be killed on the farm. It seems cruel to kill them, but the hawk steals chickens; the blue jay steals both hens' eggs and birds' eggs and drives other birds away. Kingbirds eat bees, and we can't afford that, and the sparrows are always driving away the pretty song birds. The blackbirds in particular are valuable. They more than pay for the harm they do by the cutworms they eat as they follow the plow. And the swallow is an interesting bird. He catches all the insects he eats on the wing. The robin is the first bird to come, and the lark and blackbird soon follow. One year an old lark had her nest in our yard, and every morning she and her babies would come into our front yard to dig, and whenever she found a worm she would grind it up and give it to a baby bird. There are a pair of woodpeckers around here this spring, and they have pecked a large hole in a tree and are lining it. We believe they are going to build there.

I wonder how many of the cousins have seen a humming bird's nest? A pair had a nest in our honeysuckle last year. It was so well hidden that it took us four days to find it after we saw them fly into a certain place every day.

Mama and I often get up at three in the morning to watch the birds wake up. The four o'clock risers are the blackbirds, yellow-hammers, and killdeers. By half past four nearly all the birds are up.

I wonder if people rose as early as birds if they would be as happy and useful. Do you think so?

We have a swing under a cherry tree, and as the birds sit in the branches and sing and eat cherries, I sing (as near as I can) like them. Did any of you ever try it? I think it's fun. Mama says when I am old enough to help more in the house, I may have a pair of canary birds, and maybe a pair of strawberry birds. So I do all I can to help her, and find it pleasant to clean up, cook (I can bake cookies, cakes, pies, doughnuts and candy) and sew. Don't you enjoy helping your mamas?

—Grandma, age 11.

The Beauties of Nature.

(Second prize.)

I do love poetry, although I am not a poet. I love to paint the beautiful scenes I see when I ride out through the long, shady, cool lanes, and the large green meadows. Every evening I ride through long shady lanes to the meadows after our herd of cattle. Some evenings I see the sun sink below the horizon, as it casts its beautiful light on the earth. Sometimes when I am late I see the large round moon and stars shining brightly in the sky. When I was almost ten years old I lived in the city, but I have lived in the country almost four years. I would so much rather live in the country than in the city, for you can see so many beautiful scenes of Mother Earth's, and when spring comes, how happy we all do feel! The first flowers seem so grand to us! I often think of the poor little city children that never can take long walks and rides through the green meadows and pastures; I would like so much to have them with me, and let them walk and ride and gather the beautiful flowers and hear the merry birds sing.

I walk one mile to my school each morning, and I enjoy the beautiful warm sunshine, and I hear the birds twittering in the treetops along the roadside, and I cannot help but think what a happy life this is and what a beautiful world.

—Cowboy, Ia., age 13.

A Young Poultryman.

(Third prize.)

Mama has the Rhode Island Red chickens. I have the Plymouth Rock. I have a chicken house of my own. It is a small one. I have only eleven hens and one rooster. I have them in a pen which has no grass in it. So I have to feed them every day. I get five eggs a day from eight hens. They are tame and run to meet me when I go to feed them. I have set three of them on fifteen eggs each. Last year I sold over $15 worth of chickens. I am taking music lessons on the piano now, and want to make enough from my chickens to pay for my lessons. I had not been absent a day from school until I took the measles the first day of May, neither had I been tardy. I am in the third room and hope to be in the fourth next year.

—Forest E. Davies, age 8.

How many of this spring's choice heifer calves can you afford to sell for veal? Very few of the good ones should ever find their way into the butcher shop with first-class dairy and beef cows so scarce. Build up the herd with these good young things, even though your city friends must eat less veal and pay higher price for it. The butcher can never pay the breeder what a good heifer calf is worth when she is sold as veal. Consider her as a breeder and the veal price is insignificant, even though it may on the surface appear high.—[Farmer's Advocate.

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You take no risk when you buy a buggy from us. We guarantee it to please you, and to be a bigger value for your money than you can get anywhere else, or you needn't keep it. *Reference;* S. Ill. Natl. Bank, East St. Louis, Ill.

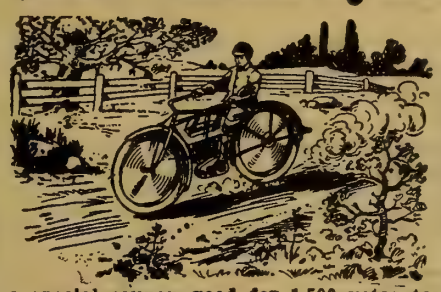
Mutual Buggies, Surreys, Wagons, etc., are the highest quality, handsomest, most stylish vehicles built. **The only line guaranteed 5 years.** We sell direct at wholesale prices—and save you $25.00 to $100.00. **Write for catalog and delivered prices.**

SENT ON APPROVAL.

MUTUAL HARNESS at $5.85 per set up: double $14.10 up; work harness $19. up, all genuine leather; highest quality; **Fully Guaranteed** 25 to 50% cheaper than retail. Catalog Free. Write today.

MUTUAL CARRIAGE & HARNESS MFG. CO., Station 11F E. St. Louis, Ill. or Station 11F 27 East Monroe St., Chicago, Ill.

$250 Motorcycle Given Away



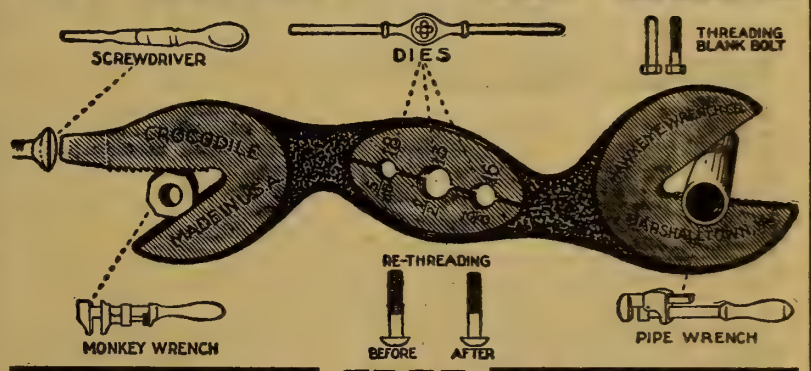
YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

A HANDY WRENCH

FOR HARVEST AND HAY MAKING



THIS WRENCH IS FREE BY PARCEL POST

The months of June and July find the farmer busy with his harvest and hay making. It is then that he needs a wrench that will answer every purpose around the binder, mower or rake. We have just such a wrench in our famous "Six in-One Crocodile."

This wrench is drop forged from the finest tool steel, scientifically tempered. Every Wrench is Guaranteed. It has six handy tools in one—pipe wrench, nut wrench, screw driver and three dies for cleaning up and re-threading rusted and worn out threads. Dies fit all standard farm machinery. It requires no adjustment, never slips, and is simple and always ready for use.

HERE IS MY OFFER:

Send me only $1 for one year's subscription to The Iowa Homestead and I will mail you one of these crocodile wrenches free of charge by parcel post. This offer is good only till July 1. Use the coupon below and mail all orders to

J. M. PIERCE - - - - - PUB. THE HOMESTEAD
DES MOINES, IOWA.

Date.....1913

James M. Pierce, Des Moines, Iowa.

Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Homestead one year. Send me free of charge your "Six-in-One" wrench

My name.....

Postoffice.....

Rural Route.....State.....

THE Master Model
OF THE
ROYAL STANDARD TYPEWRITER
$75—NO EXTRAS 19

Exclusive Features Found in No Other Standard Typewriter

Combines all the advantages of several models in one MASTER MODEL.

Royal Typewriter Co.,
364 Broadway, N. Y.
Room 322 Hubbell Bldg., Des Moines, Iowa.
Branch Offices and Agencies the World Over.

Save $50 to $300

I absolutely guarantee to save you $50 to $300 on any Galloway gasoline engine. Made in sizes from 1 3-4 h. p. to 15 h. p. My famous 5 h.p. engine—without an equal on the market—sells for $99.50 for the next 60 days only! Buy now! Same size costs $225 to $300 through your dealer. Think of it! Over 30,000 Galloway engines in use today. All sold on same, liberal, free 90 Day Trial Offer I make you—and all giving satisfaction. Isn't that proof enough?

Get My Catalog and Low Direct Prices

Write me before you buy any other style or make. Get my catalog and low, direct price on the famous Galloway line of frost-proof, water cooled engines. Free Service Department at your disposal. My special 1913 offer will help you get an engine partly or wholly without cost to you. Write today. Do it now.

WILLIAM GALLOWAY COMPANY,
Galloway Station, Waterloo, Iowa

MEN WANTED IN AUTO BUSINESS

Big demand for trained men. Earn from $75.00 to $150.00 per month. Learn all about automobiles in six weeks by

THE "SWEENEY SYSTEM"

of practical experience. In our machine shop, garage and on the road you learn by actual experience how to repair, drive, demonstrate and sell automobiles.

FREE—Write today for catalog and certificate, entitling you to free $50 course in running traction engines—we own two tractors. Only auto school in the world teaching tractioneering. Send name today.

SWEENEY AUTO SCHOOL,
1301 Woodland Ave. Kansas City, Mo.

Shinn Lightning Rods

Now protect more valuable property than any other rods made, because they are scientifically perfect. Made and sold under $75,000 bond.

ASK YOUR DEALER

For Shinn rods, the kind that are put up by experts and work inspected by our state inspectors. If he has none don't accept any substitute but write for full particulars about guarantee and for catalog.

W. C. SHINN 100 16th St., LINCOLN, NEBRASKA

Monuments

On Time We sell monuments, tombstones and markers direct from the quarries, at a very large discount from usual prices. Over 200 styles to select from. We sell on monthly payments, allowing long time to pay. All lettering done by experts. Our guarantee is backed by $7,000,000 capital.

Send for our free Portfolio, quoting quarry prices, and picturing all the most desirable designs. (431)

SPIEGEL, MAY, STERN CO.
3671 Wall St., Chicago, Ill.

GAS LIGHTS IN YOUR HOME AT SMALL COST

Monarch Acetylene Plant, 20 light capacity, slightly used but good as new, for sale at a bargain. Write or call on R. F. Bester, 503 Locust St., Des Moines, Ia.

Big Doll For You

D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.
902 Popular Bldg., DesMoines, Iowa

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 10, Gen. 45; 1-15. June 8, 1913.

JOSEPH FORGIVES HIS BRETHREN

Twenty-two years, and the brothers' paths, which diverged at the pit in Dothan, converge again in the palace of On; years for Joseph so crowded with startling transitions as to make the artless narrative fascinating beyond comparison; years for his brothers, let us hope, of moral improvement, though their great crime remained unconfessed and unatoned for. The guilty brothers may have furtively scanned the faces of such domestic slaves as they might chance to meet with small expectation of recognizing in some menial their rejected brother. But they looked squarely at this mighty prince, with his Egyptian name and retinue, without the slightest suspicion that he was their kinsman. He was completely metamorphosed. But they were the same rude Bedouins, still in shepherd garb, speaking their mother tongue, and only slightly grizzled by lapse of years. Joseph knew his brothers at sight, but not in vain had he passed through his long series of trying situations. His composure was admirable. He was every inch a diplomatist. He would know their disposition toward himself. He would put them in such situations as to stir up their compunctions. He would have them at his feet before he disclosed himself. So he continued to use an interpreter, and made no sign of understanding the conversation they had among themselves. Joseph's bearing toward his brothers, and the various expedients he used, were well calculated to reveal their hearts and excite their contrition. He made himself strange toward them, and spoke roughly. He taxed them with being spies. At once they knew themselves to be as utterly in the power of this ruthless prince as their pleading brother had been in theirs a score of years before. What right had they to expect this stranger to be more propitious than they had been? Down in an arched Egyptian dungeon, three days they tasted the bitter sorrow of their brother in the pit when they were so deaf to his wailing. One of their number held as hostage, bound them to return to the prince from whose presence they would gladly have fled forever. Finding the money in the sack was a forceful reminder of the shekels each had gotten so illy by the sale of a brother. At length the confession is extorted: "We are verily guilty concerning our brother." There are sweet touches of nature through this story, illustrating well that all nations are really of one blood,—Joseph's secret tears at the remorse of his brothers; Jacob's agonized exclamation, "If I am bereaved of my children, I am bereaved;" Joseph's lordly banquet to his brothers; his inquiry for his father; his hasty retirement to weep at the sight of his own brother; Judah's masterful plea for Benjamin; and, finally, Joseph's disclosure of himself after all foreign witnesses had first been expelled; his tact in saving his brothers from being swallowed up of overmuch sorrow by directing their attention to the providential use of their evil deed. In the range of literature, the narrative is not surpassed in naivete.

FATTENING GEESE.

To the Editor of The Homestead:

W. H. Firke, of Piatt county, Illinois, has added a unique feature to his immense stock feeding business.

For several years he has gone down into the rough country of Tennessee and bought up geese; a few in a place at forty to fifty cents each, and driven them to some convenient railroad center. The geese would be shipped to his farm and fattened for the market. Two years ago he realized a profit of nearly $600 on one car load besides a surplus of fifty geese left at home.

This season Mr. Firke purchased 4,000 head and drove them sixty miles to the railroad. This year the geese were fed nothing but corn, each goose consuming about a pint of corn per day. They drank a great deal of water. In former years the flock was fed about thirty days; one bunch that was fed twenty-six days gained four pounds each. Mr. Firke has made a success of this side line to his business of fitting stock for market.

The geese were fed in the same feed lots as the stock, but at the season when there are no cattle or sheep on hand, he has a feeding shed 64x90 feet with a hay mow above it. Two-thirds of the shed floor is concrete. At the sides is a combination feed manger suited for geese, sheep and cattle. On the south side of the shed are two feed lots 55x65 feet each, one of which has a concrete floor. Each day this lot was given a coat of straw so that it would be dry and more manure would result. The manure is counted as one of the profits of the venture.

Some kind of stock is being fed at all times of the year and the feeding of the geese enables Mr. Firke to give steady employment to his help. There are 20,000 square feet of concrete floors in the buildings and lots, all of which was done by the men on the farm. Electric lights are installed in all buildings, and one lamp at the top of the barn will light up the whole barn lot when turned on.

Minnie G. Stearns.

At the recent Dublin (Ireland) society's spring show there were 500 Short-horn cattle on exhibition. Aberdeen Angus were out to the number of 180 head, all owned by Irish breeders.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6104 Ladies' Dress.—This stylish frock closes at the front and may have long or short sleeves. The three-gored skirt may be made with empire ore regulation waistline. The dress is splendid for general wear and may be developed in serge or linen.

The pattern 6104 is cut in sizes 34 to 42 inches bust measure. Medium size requires 5 yards of 36-inch material. Price of pattern ten cents.

6990 Ladies' Dress.—This costume closes at the front and may be made with long or short sleeves. The turn down collar is a pretty feature. The skirt is cut in four gores and may be made in the empire or regulation waistline. It is a charming example of latest fashion in one-piece dresses.

The pattern 6090 is cut in sizes 34 to 42 inches bust measure. Medium size requires 5 yards of 36-inch material and ⅝ yard of 45-inch batiste or net. Price of pattern ten cents.

6111 Ladies' Dress.—Something decidedly new and quite charming is here presented. This dress, while replete with fashion's latest features is simple to make. It closes at the front and the three-gored skirt may have either the empire ore regulation waistline. Linen, serge or ratine can be used to make this dress.

The pattern 6111 is cut in sizes 34 to 42 inches bust measure. Medium size requires 6 yards of 36-inch material and ¾ yard of 22-inch net. Price of pattern ten cents.

VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

COLIC.

One of my horses is bothered with weak kidneys and has symptoms of colic after working all day. He drinks and eats and then about one hour after feeding in the evening he gets sick. He passes water often. Can you give me any advice?

Have his teeth attended to by a veterinarian. Feed him from an extra large feed box so that the grain will spread out thin on the bottom and make bolting impossible. Feed whole oats and wheat bran dampened with water. Give the drinking water before feeding. Do not feed the horse when he is warm and tired. Feed a pound or so of hay at such times, before allowing the grain mixture. At time of attack give two ounces of turpentine and an ounce of laudanum shaken up in a pint of raw linseed oil as one dose. Give it carefully to prevent any of it from running into the windpipe and lungs.

TYPICAL HERD OF AYRSHIRE CATTLE.
See Field Note of Galloway Sale.

The Holbrook Angus Sale.

P. J. Donohoe, Holbrook, Iowa, and William Cash, Williamsburg, Iowa, held a very successful sale of Aberdeen Angus cattle at the Holbrook sale pavilion on May 27th. The average was highly satisfactory to the sellers and buyers received good values. Imp. Eryse, an excellent individual topped the females at $465 selling to Escher & Ryan. This firm were liberal bidders and buyers. Ballinera was not only the top bull, but the top of the sale, selling for $555 to Geo. Evans & Son. He was sired by the champion Erwin C., and out of the famous World's Fair winning cow, Blackbird 26th. The evenness of prices indicate a very healthy tone in the Aberdeen Angus business. More cattle could have been sold at the same prices as the demand was not appeased when the sale ended. There is undoubtedly a very bright future for breeders of Aberdeen Angus cattle, at least for the next few years to come. Carey M. Jones and N. G. Kraschel did the selling in a highly satisfactory manner. A list of sales is appended:

FEMALES.

Brookside Blackbird 28th, calved 1911; C. W. Murzbacker, Morley, Iowa	$260
Black Lucile, calved 1907; White Bros., Perry, Iowa	305
Brookside Blackbird 26th, calved 1911; Tudor & Son, Iowa City, Iowa	215
Blackcap Jam 2d, calved 1908; T. H. Black, Holbrook, Iowa	420
Brookside Blackbird 31st, calved 1910; Geo. Evans & Son, Ottumwa, Iowa	160
Brookside Blackbird 27th, calved 1911; H. M. Lovatt, Lomax, Ill.	145
Oakfield Blackbird 12th, calved 1911; T. H. Black	270
Homedale Blackbird 5th, calved 105; H. M. Lovatt	200
Petal's Blackbird, calved 1909, and c. c.; R. M. Miller, Prosper, Minn.	260
Birdie Blackbird, calved 1909; Samuel Rice, Disco, Ill.	300
Brookside Blackbird 25th, calved 1911; B. L. Griffin, Parnell, Iowa	250
Black Enid, calved 1912; Tudor & Son	215
Dollie Blackbird C., calved 1908; C. J. Martin, Jefferson, Iowa	160
Blackbird 99th, calved 1910; Horan Bros., Floris, Iowa	105
Blackbird of Clover Lead 3d and c. c., calved 1906; C. J. Martin	255
Home Dale Blackbird 7th, calved 1907; C. D. Baird & Son, North English, Iowa	165
Blackbird Addie, calved 1910; White Bros.	275
Black Bird of Clover Leaf 33d, calved 1911; John Milne, Prosper, Minn.	105
Heifer Calf, calved 1912; J. E. Cox, Williamsburg, Iowa	100
Blackbird of Cherokee 41st, calved 1910; C. J. Martin	120
Heifer Calf, calved 1911; C. D. Baird & Son	105
Blackbird of Cherokee 43d, calved 1911; Horan Bros.	100
Metz Environ, calved 1911; Escher & Ryan, Botna, Iowa	175
Brookside Erona 2d, calved 1911; Escher & Ryan	195
Eryse and c. c., calved 1905; Escher & Ryan	465
Glenmere Erica 6th, calved 1911; H. J. Hess, Waterloo, Iowa	225
Brookside Eline 6th, calved 1911; Horan Bros.	160
Brookside Elsie, calved 1910; C. J. Martin	235
Oakfield Kindness, calved 1907; W. J. Crump & Son, Morrison, Iowa	200
Environ 3d and b. c., calved 1905; Sam'l Rice	290
Erona D., calved 1903; Horan Bros.	150
Brookside Elluna, calved 1911; Escher & Ryan	180
Enchantress 10th, calved 1910; Geo. Evans & Son, Ottumwa, Iowa	380
Erica C. 2d, calved 1911; Horan Bros.	140
Eudora of Cherokee 2d, calved 1909; W. Sanquist, Victoria, Ill.	175
Brookside Pride 15th, calved 1911; Horan Bros.	100
Patti D., calved 1905; C. D. Baird & Son	150
Pride of Horan Dale 3d, calved 1911; Roberts & Williams, Atlantic, Iowa	160
Oakfield Price and c. c., calved 1905; W. K. Henss, Mayland, Ia.	170
Pride of Clover Leaf 8th and c. c., calved 1909; A. L. Reimer, Grand Mound, Iowa	200
Pride of Victory, calved 1910; S. Rice	205
Brookside Pride 11th and b. c., calved 1910; W. H. Cooper, Hedrick, Iowa	180
Kandace, calved 1907; Geo. Evans & Sons	175
Pride of Denison 23d, calved 1901; F. F. Post, Russell, Iowa	110
Brookside Queen of May and c. c., calved 1903; A. L. Reimer	200
Queen Shamrock 2d, calved 1911; H. M. Lovott	200
Queen Abbie, calved 1905; A. L. Reimer	150
Queen of Clover Leaf 5th, calved 1911; H. J. Hess	125
Midnight Lass, calved 1898; D. M. Driscol, Williamsburg, Iowa	100

BULLS.

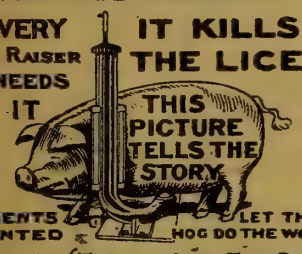
Blackbird Emperor 2d, calved 1911; H. Rudd, Belnap, Iowa	210
Ballinera, calved 1912; Geo. Evans & Son	555
Ballinamore, calved 1911; Wm. Moffatt, Mechanicsville, Iowa	125
Black Finlarig, calved 1911; Sam'l Rice	295
Black Buster A., calved 1911; W. H. Echkart, Oxford, Iowa	175
Ed Escher, calved 1912, G. M. Rudd, Moulton, Iowa	240
Peter Black C., calved 1912; C. D. Baird & Son	160
Quiet Tom, calved 1912; Wm. Metz, Clarence, Iowa	150

SUMMARY.

8 bulls	2,005; average	251
49 females	8,780; average	200
57 cattle	11,785; average	207

WASSON'S PATENT RUBBING POST

EVERY Hog Raiser NEEDS IT



Hundreds of Testimonials as Every Buyer Becomes a Booster. Write today for Price and Booklet Describing this Wonderful Labor Saving Device.

WASSON MFG. CO.
30 BANK BUILDING, PEORIA, ILL.

SAVE-THE-HORSE
(Trade Mark Registered.)

Cure the horse while he works

R. T. Bectel, of 217 Slimson St., Cadillac, Mich., Aug 27, 1912, writes:—"I do trucking and load heavy. I brought on a bad bone spavin last spring and I used ten treatments of Save-The-Horse, and he is as sound as a dollar. I have used it years back on curbs and bad tendons and I find it does just what you claim for it."

Every bottle of Save-the-Horse is sold with an iron-clad contract that has $60,000 paid-up capital back of it, guaranteeing to permanently cure or refund the money!

Write! AND STOP THE LOSS.

TROY CHEMICAL CO. 3 Commerce Ave., BINGHAMTON, N. Y.

Druggists everywhere sell Save-the Horse WITH CONTRACT, or we send by Parcel Post or Express prepaid.

HAVANA Steel Wheels

For any wagon or cart you may have on your farm. We make the wheels to fit your axle. You give us the exact dimensions of your axle, as asked for on our order sheet, and we guarantee a fit. If you are interested, we shall be pleased to forward you our catalogue and order sheet. *Write us.*

Havana Metal Wheel Co.
Box 47, Havana, Illinois

LANDS AND HOMES

CHOICE FARM FOR SALE

160 ACRES of good corn land 6½ miles southeast of Spring Valley, Fillmore county, Minnesota, 9 miles north of the Iowa line. Surface slightly rolling. Can all be plowed. Soil, rich loam under laid with limestone and yellow clay. Fenced and cross-fenced. About $4,000.00 worth of buildings consisting of a modern 7-room house, two stories with two porches, main part 28x28 with addition 12x14, dry cellar under whole main part, good cistern, hot and cold water in bath room and kitchen. Barn 60x60 fitted up for horses and cattle. Large implement house, double doors. Good granary and corncrib. Large, new chicken house. Buildings all in good condition. Good drilled well. Windmill and milk house. About 20 acres of timber and pasture near the buildings affording good shelter, balance all under the plow. Farm located on the main road. Telephone line and rural mail box at the door. Square quarter, road on two sides. Price $95 per acre if sold before June 15th. Terms, $1,000 down when contract is made, enough more payable March 1, 1914, to make one-half the purchase money, balance on or before 5 years at 6%. Possession given March 1, 1914. No trades. Address owner, Everett Jones, Spring Valley, Fillmore Co., Minn.

Irrigation

in the West has been and is highly successful. You are wholly independent of rainfall. It has made invaluable the farm lands of California and other Western States; making possible numerous money-making crops—Alfalfa, Fruits, Grains, etc. We have investigatad many irrigated propositions and have information regarding farm lands and ranches. In the West. These are opportunities that should not be overlooked.

Write for valuable and authentic information which is free of charge.

R. A. SMITH,

Colonization and Industrial Agent, Union Pacific Railroad Co., Room 126, Union Pacific Building,

OMAHA, NEBRASKA.

SOUTHWEST MINNESOTA

FINE spring bargain for thirty days only. 160 acres, well improved; under a high state of cultivation; black soil; every acre farmed; good neighborhood. Price $80 for quick sale. Will be worth $100 this fall. Only twenty-four miles from the Iowa line. Strictly in the Corn and Clover Belt. Corn yielded one hundred bushels per acre last year in this county. No trade. Write for particulars and also for bargains in other farms. Have large list. Address **DRAWER C, SLAYTON, MINN.**

Timothy and Clover Lands

IN southern central Wisconsin, new 20,000 acre county drainage district; open meadow lands, no stumps; all within four miles of the station; to be divided into 80-acre dairy and truck farms. Only sixty-five miles from Iowa, six hours from Chicago. Ten years' time given to the actual settler. Write **The Peddle Land Company, Inc., Owners, Cedar Rapids - - - - - Iowa.**

One of Iowa's Best

260 ACRES, Webster county, Iowa, 10 miles from Fort Dodge, population, 20,000; ½ mile from town of Clare, population about 500 on M. & St. L. R. R. 3½ miles from German Lutheran church. Good improvements. All under cultivation. One of the best farms in Iowa. Price $43,000. Must be sold before August 1st.

B. B. BURNQUIST, Attorney at Law, Fort Dodge, - - - - - - - - Iowa.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

A DOLLAR AN ACRE DOWN buys St. Louis County land on our line near Duluth. Maps free. Write Land Com'r, Duluth & Iron Range Railroad, 151 Wolvin Building, Duluth, Minn.

CALIFORNIA LAND Send for catalog. Properties in all counties. Valuable, reliable information. C. M. Wooster Co., Phelan Bldg., San Francisco

DRAINAGE You can drain your land without digging a ditch. Write for circular at once.
VERTICAL DRAINAGE CO., Clinton, Iowa

LANDS AND HOMES

Get Your Canadian Home From the Canadian Pacific

WE will make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will *make you independent.*

20 Years to Pay

Rich Canadian land for from $11 to $30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

We Lend You $2000 For Improvements

The $2,000 loan will help you in erecting your buildings, and you are given twenty years in which to fully repay this loan. You pay only the banking interest of 6 per cent.

Advance of Live Stock on Loan Basis

The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle, sheep and hogs up to the value of $1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

This Great Offer Based on Good Land

Finest land on earth for grain growing, cattle, hog, sheep and horse raising, dairying, poultry, vegetables and general mixed farming, irrigated lands for intensive farming—non-irrigated lands with ample rainfall for mixed and grain farming. These lands are on or near established lines of railway, near established towns.

Ask for our handsome illustrated books on Manitoba, Saskatchewan and Alberta—mention the one you wish. Also maps with full information *free.* Write today.

B. U. THORNTON, *Colonization Agent*
Canadian Pacific Railway
Colonization Department
112 W. Adams St., Chicago

FOR SALE—Town lots in all growing towns—Ask for information concerning Industrial and Business openings in all towns.

A BETTER SOIL

A Pleasanter Country

than the high-priced lands farther South. So cheap! So easy to buy of us.

Aitkin County, Minnesota

This is where you ought to locate. Write for Descriptive Folders and Maps. **Land Agent, C. R. I. & P. Ry. Co., 116 Wolvin Bldg., Duluth, Minn**

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2356 Washington Blvd., Chicago, Illinois.

WOULD YOU BACK YOUR OWN JUDGMENT when you saw a farm snap? If so come and let us show you land in the best soil of northwest Iowa and southern Minnesota. Write for particulars. **Seaton & Brown, Spencer, Clay County, Ia.**

FARMS WANTED We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property **free.** American Investment Association, 33 Palace Bldg., Minneapolis, Minn.

WANTED Good tenants for good farms well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. **The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.**

Good Improved Farms $65 to $125 Per Acre

LAND that will grow grass, tame hay, small grain corn and hogs. Just over the Iowa line in Minnesota. McCadden & Allison, Fairmont, Minnesota.

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. Address **SEWELL LAND CO., Garnett, Kan.**

FOR SALE—Well cultivated 320-a. farm 3 miles Crookston, Minn. Good Bldgs. Mrs. A. A. Bristol 513 Clancy Ave., Grand Rapids, Mich.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

June 18, Combination sale, Chicago, M. A. Judy, manager.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.

Holstein-Friesian Cattle.

Oct. 1 and 2, Holstein Breeder Company Combination sale, Painesville, S. T. Wood, manager, Geneva, O.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Dairy Cattle.

June 19, Wm. Galloway, Waterloo, Ia.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Kellogg, Ia. (Sale at Newton).
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Poland China Swine.

June 25, Peter Mouw, Orange City, Ia.
Aug. 6, M. P. Hancher, Rolfe, Iowa.
Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, J. W. Pfander & Sons, Clarinda, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 23, Ed. Seckington, No. English, Ia.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.

Hampshire Swine.

Oct. 14, Clayton Messenger, Keswick, Iowa.

FIELD NOTES.

Faulkner's herd of big, spotted Poland China hogs will be found headquarters of the spotted kind. Address H. L. Faulkner, Box 117, Jamesport, Mo., for complete information regarding boars for herd headers.

Will Thompson, Jesup, Iowa, is offering thirty-three high-grade Shropshire ewes, one buck and twenty-three lambs. Mr. Thompson is overstocked and has not enough pasture to carry his stock through the summer. See page 19.

Writing with reference to his Chester White hogs, Earl Bloom, Bridgewater, Iowa, informs us that he has shipped stock to Idaho, Minnesota, Kansas and Ohio within the last month. He expects to offer our readers some excellent fall pigs quite soon.

Some splendid young Scotch Shorthorn bulls are advertised for sale by W. H. McLaughlin, Shelby, Iowa, on page 22. He also offers one of his present herd bulls for sale and he will make a price on them where any breeder wanting a bull can afford to buy.

Conrad's Poultry and Stock Farm, Cedar Rapids, Iowa, has an announcement on page 11 that is of interest to all farmers. It concerns a preparation used for the destruction of lice, fleas and mites on farm stock. It is good for horses, cattle or poultry. It is sold at $1.50 per gallon. Send orders to the address named.

B. F. Mason, Seward, Neb., has a Poland China boar that is a real herd-heading sort of a proposition. He will sell this boar worth the money as he has no further use for him. He is cholera immune, and an extra good individual and extra well bred. Mr. Mason also has a few Short-horn bulls for sale. Mention The Homestead when writing him.

Fly time is the most trying season of the year for the dairyman and anything which will reduce the pest of flies is welcomed. On page 12 our readers will find an announcement presenting Cow Ease, which is a preparation clean, harmless and easily applied, that keeps flies off of the cows and saves five times its cost in extra milk. Trial lots are sold at the prices named in the advertisement. Send orders to Carpenter-Morton Co., Boston, Mass.

The engraving in the advertisement of Sal-Vet on page 10 shows the wonderfully attractive form of pigs without worms. Appearances, however, are not all. A pig without worms grows quicker, makes a greater percentage of gain on the food used and gets into market in a more salable form than those which are affected. Sal-Vet is offered to farmers on a trial offer at sixty days and under an absolute guarantee that it will dispose of worms. All that is necessary to be done is to fill out the coupon printed in the corner of the advertisement and forward it to Sidney R. Feil, president S. R. Feil Co., Cleveland, Ohio.

Nash & Son Lose Gold Medal.

A short time ago the writer made mention of the new Poland China boar that Nash & Son, Minden, Neb., had secured to head their herd of the real big Nebraska Polands, and we mentioned that with this boar, which is Big Hercules, and their old boar Gold Medal, that they were extra well fixed for herd boars. Now we must tell our readers that they have lost Gold Medal. He accidently injured himself, dying a couple of days afterward. These gentlemen have a big lot of Gold Medal pigs on the farm. A very select line of fall gilts and a big crop of spring pigs. They have lost a very valuable boar, a great sire of choice sows, but they still have the best boar that has been in this herd in years in Big Hercules. If interested in the extra big ones, if wishing to buy an extra choice sow bred for fall litter, address as above and mention The Homestead.

Beaver Offers Short-horn Bull.

S. C. Beaver, Ulysses, Neb., is offering his herd bull and one of the choicest large Short-horn bulls in the country. He is an immense fellow, weighing about 2,200 and is a beautiful roan, splendid disposition and right in every way. If looking for an extra good one, write Mr. Beaver as above. The writer has seen this bull and we recommend him.

Westrope Offers Bulls.

Any of our readers who are in need of a good young Short-horn bull should write or go and see J. G. Westrope, Harlan, Iowa, as he has a few good young Scotch and Scotch-topped bulls for sale and he is making prices on these where any farmer or breeder can afford to buy. He would like to clean his present crop up and therefore he will price them where they will sell.

Chester White Herd Boars.

The breeder who is wanting a good boar to head his Chester White herd will get a bargain in the two that G. H. Tutt, Marathon, Iowa, is offering for sale. One of these is Counsellor, a Nagle-bred hog, and he is a son of Lewis E., and out of Highland Nellie. This is one of his old standbys, but he has so much of his get in his herd that he must sell him. His other boar is Village Boy, who is out of a champion Iowa State Fair sow. He will sell either one of these boars at $50 if taken soon. He is also offering ten head of good sows bred for fall litter and he is offering at $40 and upwards. He has some splendid spring boar pigs and he is booking orders for these at $25 to $35. He has some early pigs that are strictly all right and now is a good time to have him book your order for one of these. Write Mr. Tutt about these at once and mention The Homestead.

Good Angus Bulls for Sale.

If any of our readers want to buy a good, young Angus bull they should write or go and see H. R. Davis, Corning, Iowa. He has several for sale all sired by well-known Blackbird bulls and he is pricing them where they must move. If you want one of these you had better go and see these bulls right away.

Smooth Jumbo for Sale.

Some Poland China breeder who wants a good two-year-old boar should buy Smooth Jumbo, that George Glynn, Sioux Rapids, Iowa, is offering for sale. He is a son of Crow's Kind, he a son of Big Orange. His dam is Goodie by Wintermute's old Jumbo. He is an unusually smooth boar, will weigh right around 800 pounds and is a bargain to some breeder who is wanting to buy a good herd boar. Write Mr. Glynn about him at once and kindly mention The Homestead.

Linnwood Cumberland for Sale.

The Short-horn breeder who is looking for a good white bull to head his herd will be interested in the white bull that H. H. Powell & Son, Linn Grove, Iowa, are offering for sale on page 19. He is twenty months old and is a son of that noted show and breeding bull King Cumberland 2d, the junior champion Iowa State Fair bull. The sire of this young bull is a full brother to the grand champion King Cumberland that heads the Elmendorf herd, so you may know he is a well-bred fellow and a good individual. He is out of a Miss Ramsdem cow sired by the champion bull, Ceremonious Archer, and is therefore a royally bred fellow. He will make a 2,200-pound bull when matured, is a good headed and well-balanced bull, and the breeder who is looking for a splendid young white Scotch bull to place at the head of his herd will be interested in this youngster. Write Powell & Son regarding this bull and kindly mention The Homestead.

Poland China Sows for Sale.

On page 19 George Glynn, Sioux Rapids, Iowa, advertises twenty-five head of well-bred big-type Poland China sows for sale, all bred for early fall litters to Mouw's Big Sioux. Among these are daughters of Crow's Kind, Youngfellow (a son of Tecumseh Longfellow) and Bright Eye. These sows are strictly choice Poland China brood sows and he is selling them at from $50 to $75. We have seen these sows and will say they are bargains at the price he is asking for them. You can buy these sows, save their fall litters and put them into a winter sale and double your money. Mr. Glynn also offers to sell Smooth Jumbo, a two-year-old son of Crow's Kind out of a daughter of Wintermute's old Jumbo. He is a hog that will weigh right at 800 pounds in his present form and will easily make a 900-pound or better hog when fat. He is smooth as a ribbon, deep in body and a right, good herd boar. He can be bought worth the money if taken now. Write Mr. Glynn and send him an order for some of these good sows and if you want a herd boar don't overlook his Smooth Jumbo, as he is a good hog. When writing him kindly mention The Homestead.

Duroc Fall Boars for Sale.

If any of our readers want some good Duroc Jersey fall boars they should read the advertisement of W. J. Wendt, Remsen, Iowa, on page 22. He has twenty good boars for sale and they are sired by C. Indicator, a grandson of old High Chief. These are good lusty fall boars and he is pricing them at $25 to $50 if taken soon. Write Mr. Wendt about these fall boars at once and kindly mention The Homestead.

R. L. Bollman's Hampshires.

A representative of this paper recently visited R. L. Bollman, the noted Hampshire breeder of Coal Valley, Ill., and found him as enthusiastic for his favorite breed of swine as ever. Mr. Bollman has been a prominent exhibitor at the different state fairs and International Live Stock Exposition for several years. He has made some very successful public sales all of which indicate that he has the kind of Hampshires that the best breeders want. He has at the head of his herd a good boar named Time Keeper that if shown this fall will make some strong competition for the other fellow. He has a good young boar sired by Messenger Boy, the undefeated champion of 1912, that he is using some. Mr. Bollman's son, Earl, is taking an active interest in the Hampshire business and when he gets a little older we predict for him a successful career as a Hampshire breeder. Mr. Bollman has a few fall boars and an extra fine lot of spring pigs of both sexes for sale at reasonable price. See page 23 and write him your wants, mentioning The Homestead.

Niswander's Hampshires.

Howard Niswander, Kinross, Iowa, has more good Hampshires than he has ever owned before at any one time. Last winter he purchased three sows bred to the famous Messenger Boy and succeeded in raising twenty-five pigs from these sows. He also has five litters sired by a son of Captain Jack, one litter by Lempe's Favorite and one litter by the prize-winning boar, Dudie. Mr. Niswander has over 100 spring pigs and they are the best he has ever owned. He is giving them good care and at the present time will price some of the largest spring pigs very reasonable. It has been his ambition to own as good a herd of Hampshires as anyone and with the class of sows he has been buying during the past year he will soon realize his ambition. He would be pleased to hear from any of our readers wanting an extra good spring boar pig at a reasonable price. See page 23 and when writing kindly mention The Homestead.

O. S. Johnson, Auctioneer.

Col. Oliver S. Johnson, Tipton, Iowa, known as the Iowa auctioneer, is carrying an advertisement in The Homestead on page 21. He needs no introduction to many of our readers. He has just issued an article and instructive little booklet entitled, "My Million Dollar List" which contains the names of men for whom he has sold a million dollars' worth of property. It also contains several unsolicited complimentary letters. On receipt of your name he will be pleased to mail you one. Colonel Johnson has

given special attention to horse and cattle sales. He is familiar with the breeding of this class of live stock and those for whom he has sold do not hesitate to give him strong recommendations. His experience as an auctioneer covers a period of about fifteen years and during that time he has sold all breeds of pure-bred live stock. His terms are reasonable and he will be pleased to correspond with anyone contemplating the holding of a public sale during the next year. When writing him for any information, kindly mention The Homestead.

Dickinson's Alfalfa Offer.

The present active campaign all over the country on the subject of alfalfa raising has awakened unusual interest. A late instance is that of the Albert Dickinson Company, Chicago, which offers to present to any reader of this paper a sufficient quantity of alfalfa seed to go to test a plat of land one rod square. With the seed, and without any cost whatever, there will be sent a handsome booklet of forty-eight pages giving full information with respect to the growing and use of alfalfa. See the advertisement on page 11 and forward request for seed to the Albert Dickinson Co., Chicago, Ill.

The Heider Tractor Announcement.

One of the most up-to-date concerns engaged in the manufacture of tractor engines is the Heider Mfg Co., whose new advertisement appears on page 8. The Heider is so fully protected that it meets all demands and is adapted to the use of gasoline, motor spirits or kerosene as a fuel. This plan enables the user to make use of that fuel which might happen to be cheapest and most economical or him. Testimonials concerning the effectiveness of the Heider tractor and free book concerning it may be obtained by writing to Heider Mfg. Co., Room 270, Main St., Carroll, Iowa.

Hancher's Poland Chinas.

One hundred and fifty spring pigs is the number M. P. Hancher, Rolfe, Iowa, has on hand and he has some very good ones. These are mostly sired by his noted boar, Smooth Wonder 2d, that are regarded as one of the greatest breeding sons of old A Wonder now living. This old boar has done the Hancher herd a wonderful lot of good and has been instrumental in bringing it to the front as one of the best today in the entire West. Another splendid boar he is now using in the herd is Chief Price Jr., and still another is Long Wonder. These are all large boars of the strictly big-type kind, and the most of the pigs that he now has in the herd are sired by these three hogs. Another boar that he is now using promises very much for this herd and that is Mouw's Jr., and he is using him very largely on the get of Smooth Wonder 2d. Mr. Hancher will make a public sale on August 6th, at which time he expects to put in the best boars he has and some of his choicest sows and the latter will be bred to one of the present boars that is being used in the herd.

Poland China Fall Boars for Sale.

On page 24 F. E. Jackson, Hurley, S. D., is offering some splendid Poland China fall boars for sale and he has some of the very best that you can find anywhere. These are mostly sired by Dale Expansion, a son of Dorr's Expansion, and he was the pick of Henry Dorr's crop of fall boars in 1911. He has developed into a splendid boar, having plenty of size, with a large bone and ample quality. He is proving one of the greatest breeding boars in South Dakota, and these fall boars that Mr. Jackson is offering are out of sows that topped the best sales throughout the West. They are out of such sows as Nebraska Maiden, a daughter of that well-known boar, Golddust Hadley, Sunflower, a daughter of that noted Nebraska State Fair winner, Big Tom, and Victorine, daughter of Big Victor. There is no better breeding than is behind these fall boars and they are good enough that any breeder would be glad to have them at the head of his herd. Mr. Jackson is also offering a few good sows bred for fall litter to Dale Expansion and he is making low prices on these considering what they are. Write Mr. Jackson at once about these and kindly mention The Homestead.

Bellows Bros. Short-horn Sale.

The sale of Short-horn cattle to be held at Parkdale Farm by Bellows Bros., Maryville, Mo., on next Tuesday, June 10th, is a sale that should be attended by every breeder interested in improved Short-horns. It is strictly a breeders' sale, the work of many years is represented and that work has been performed by master builders, conceded to be among the foremost molders of the modern type of Short-horn cattle. It is to be regretted that Colonel Bellows who devoted his life to the work should have been taken off just at a time when his and his brother's efforts as cattle breeders were showing that they have not toiled in vain. In this sale they were prepared to show to the world cattle that are superior to any they had previously produced. The twelve bulls listed were bred by Bellows Bros., they are the best ever bred by this firm, eight are rich roans, four are reds and all are dependable bulls coming from superior sires and dams that may be seen at the farm on sale day. This affords the buyer an exceptional opportunity. Half the number are sired by the champion show bull, Diamond Goods, and there is not an ordinary plain bull listed. Several of these bulls are good enough to go to head the best herds and breeders who are looking for as good as is to be found should not overlook this opportunity. The breeding of all is superb and the character and quality of these bulls is unsurpassed. The thirty-seven females are a good lot, seventeen have calves at foot and all but those with very young calves at foot are rebred. The sires represented are bulls of national and international reputation. The calves

NEXT WEEK'S SALE PROGRAM

Tuesday, June 10,	Short-horns, Bellows Bros., Maryville, Missouri.
Wednesday, June 11,	Short-horns, Howell Rees & Son, South Omaha, Nebraska.
Thursday, June 12	Short-horns, Owens Bros., Homestead, Iowa.
Friday, June 13,	Short-horns, Whitsitt Bros., Preemption, Illinois.

at foot are by the Bellows Bros. herd bulls and among these are some as choice young things as are found. Diamond Goods, Sultan Supreme (an exceptional yearling by Double Dale), Diamond Abbot and Cornerstone are the bulls to which the cows and heifers are bred. There has not been held recently a sale from which it is possible to make such choice selections of herd headers and females fit to go to any herd. The Bellows Bros invite you to come to the sale, see the breeding herd and the offering. You are welcome whether you buy or not. Note this page for the last announcement.

A Prominent Dairy Cattle Sale.

Interest is growing in the announcement that on June 19th Wm. Galloway will make a public sale of Holstein-Friesian and Ayrshire cattle at his well-known Galloway farms, Waterloo, Iowa. Among the star attractions in this sale in Holstein-Friesians will be a son of the undefeated grand champion show cow, Fay Jewel Beauty. This calf was dropped November 28, 1912, and is an animal of extraordinary promise. One of the special attractions in females is the young cow, Hilaria Johanna Ormsby, whose dam is closely related to the $7,000 Holstein-Friesian cow, Johanna De Kol Van Beers, with a record of over forty pounds. All the more popular and practical producing strains of Holstein-Friesians are represented in this sale. Among the Aryshires are many cows and heifers from improted sires and dams. The Galloway farm herd is well known to be one of the best of the breed in the United States, hence this offering has unusual attractiveness. The illustration which appears on this page represents a show herd which has one premier honors at the great dairy shows of the country. Every reader of this paper should obtain a copy of the catalog which contains pedigrees in full and all other information. See advertisement on page 21. Address inquiries for pedigrees to Wm. Galloway, Waterloo, Iowa,

Chicago Angus Sale June 18th.

Fifty head of Aberdeen Angus cattle will be offered at public sale at the Union Stock Yards, Chicago, Wednesday, June 18th, by M. A. Judy. These cattle come from three of the best-known herds in the country, have been selected with special reference to blood lines and individual merits and Mr. Judy, than whom there is no better judge, considers it one of the best lots of cattle he has ever offered to the public. There are forty females and ten bulls cataloged for this sale, represensation of the Blackbird, Trojan, Erica, Pride, Queen Mother and other popular tribes, and the breeder, the farmer and the beginner will all find in the sale something to please them outside of the International and the association spring bull sales there has not been an offering of Angus cattle made in Chicago in some time, and the forthcoming sale should draw a large attendance. Good beef cattle were never in stronger demand than at the present time and buyers should not overlook this opportunity to place public sale values upon outstanding specimens of the great Angus breed. Some exceptionally good values in bulls will be found in the sale. Among the ten head listed are some herd-heading propositions and some show prospects, while the farmer wanting a bull to sire the market-topping class of steers will find what he needs at this sale. Manager Judy charactizes this offering as the most select lot of Angus cattle sold in Chicago in recent years, a statement that should have much weight with the buying public. The catalog should have wide distribution. It can be secured if you mention The Homestead and address M. A. Judy, West Lebanon, Ind., as per the advertisement on page 24.

F. E. Merrick's Durocs.

The writer called on F. E. Merrick, Osceola, Neb., a few days ago and wish to say that he has one of the extra good bunches of spring pigs that we have seen this year. Mr. Merrick is a mighty progressive fellow, and has one of the very top Duroc herds of his section of the state. The class of sows and the boars also that have been employed in building this herd are of the very best, and the seed sown is certainly bearing the proper kind of fruit. The present crop of pigs are nearly all by Golden Rod Hero by Golden Model and his dam was Miss Hope. The remainder of the pigs are by I Am Crimson, by the champion Bell's Crimson Wonder. I Am Crimson was not shown at the state fair, but without special fitting and in competition with many old breeders and experienced showmen at Osceola, easily won everything in the Polk county classes. He is a really good kind of boar, and a good breeder. Belle's Crimson Wonder is certainly one of the great boar sires of the country, having sired a great many boars that have the ability to sire state fair winners. Last season practically every pig that won in the under-six-months class in Nebraska was sired by Belle's Crimson Wonder or a son of Belle's Crimson Wonder. We saw a litter at Mr. Merrick's farm that look as though they would help keep up the reputation. They are by I Am Crimson and out of a Crimson Wonder 3d dam. They are sure right now, and from that line of mating, one has good reason to expect that they will look well this fall. At the Beem dispersion sale Mr. Merrick bought three sows, and while their pigs are a little late, they are certainly extra good. The grand producing sow, Currant Blossom, has a litter by I Am Crimson and the other two have litters by Golden Rod Hero. Golden Rod Hero was also purchased in the Beem sale, and that time the writer stated that he was a boar of exceptional merit, and a line of breeding that can not now be had, especially that close to Golden Model. The way he is breeding shows that he was not overrated. Mr. Merrick will sell his spring boars at private treaty this fall. Watch for further announcements, and remember that he will be at the state fair if all goes well, and that he would like to meet you there.

Iowana's Cholera-Proof Berkshires.

The production of high-class Berkshires is one of the leading industries at Iowana Farms, Davenport, Iowa. Manager J. L. Thatcher selected the foundation stock for this great herd with extreme judgment, choosing only stock of known producing value and the best of blood lines. Today the Iowana herd is undoubtedly the largest collection of Berkshires in the country. Not only that, but every animal measures up to a certain standard, and that a high one. The management at Iowana has never stopped at expense when the matter of securing a herd boar or breeding sows was under consideration, and as a consequence the herd today stands in the front rank as a high-class producing establishment. The noted Rival's Champion is the senior herd boar at Iowana, and he is assisted by Masterpiece Rival 2d, Artful Belle's Rival 3d and other good boars. There are 100 brood sows in the herd, every one of which produces two litters a year. The sows at Iowana must be producers or they are sent to market. The management considers a sow that will not produce two litters each year an expense item and she is gotten rid of. The sows in this herd are a combination of the strongest blood lines known to the breed and their matings with the outstanding boars at the head of the herd are productive of the most satisfactory results. At the present time Iowana is making an offering of practically 700 spring pigs carrying the blood of these great sires and dams, a lot of growthy pigs, of splendid type, and all cholera immune. Some time ago the entire herd was immunized against cholera. The simultaneous treatment is in vogue at Iowana Farms, and the severest tests have shown that the entire herd is thoroughly immunized. It means something to get Berkshires of such gilt-edged breeding and strong conformation as the ones produced at this great Iowa breeding farm, and when one adds to that the fact that they are all cholera proof, the buying public can at once see the value of the offering. Breeding affairs are carried on in a thoroughly practical manner at Iowana Farms. There are no frills of any kind attached to the work, which is in skilful hands. It is a practical, producing proposition all the way through, and a visit will be of interest to anybody. Manager Thatcher is offering the spring crop of pigs at attractive prices, value considered, and those in the market for Berkshires of the right breeding and type will consult their best interests by inspecting the offering at Iowana Farms. The advertisement will be found on page 21.

Briggs Bros. Herd of Durocs.

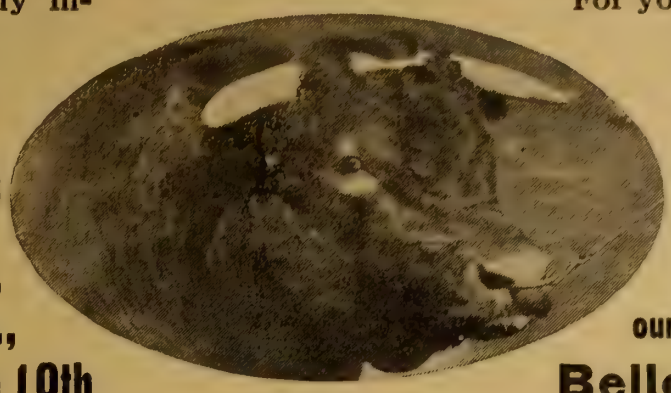
When at Seward, Neb., a few days ago, the writer called on the well-known breeders of good Durocs, Brigg Bros., of that place. These gentlemen have in the past produced some of the very best stuff within the state and have held a number of very successful sales. They have made money at the business, and any good business man is entitled to do this, and if a breeder's products cannot make money for him, it does not seem that he should expect them to be profitable in other hands. The very fact that brood sows sent out from these herds did make their owners money is the reason that the herds have been so profitable to their owners. These gentlemen have foreseen the fact that most stockmen will pay a fairly liberal price for big, roomy brood sows, and then set about to produce them. They secured the great breeding boar Watt's Model for this purpose. This boar was mated on daughters of Fashion's Improver by Improver 2d and the results were all that could have been anticipated. Their herd almost leaped into fame and their average of sales ran high. Golden Model 5th by Golden Model 2d was then introduced and again the cross was excellent and by adhering to these lines they were able to maintain a type. Crimson Critic was next introduced and as a sire he is among the real good ones of the country. These last three named boars are still in use, and they are in fine breeding form. A greater part of these herds was lost by disease a year ago, and past season little was sold from them. This year, however, a nice lot of stuff will be for sale. Probably the best yearling boar that the writer ever remembers seeing we saw on the farm of V. A. Briggs on this visit. He is a June pig, just a year old now, and for general conformation we do not think we ever saw one as good in all parts. This boar is lame right now, injured in the shoulder it seems, but if he comes right in time, and does well he certainly should get a high place at the state fairs. He is so outstanding that he is hard to describe, but we hope he will be at Lincoln that Homestead readers may get a glimpse of him. Briggs Bros. sell on February 17th.

Pederson's Poland Chinas.

One of the good western Poland China herds that is rapidly coming to the front is owned by C. M. Pederson, Dunlap, Iowa, and he has ninety head of good spring pigs on hand. His litters this season have been large in size and he has pigs sired by some of the most noted large-type boars today in the West. Among these are litters by Fesenmeyer's great boar, A Wonder, Chief Price Again, Golddust Wonder, Long Orange, Defender Again, and his later litters by his 1,000-pound boar, Henry Big Bone. This hog is an extra large boar and Mr. Pederson secured him from M. G. Arnold & Son.

The accompanying photo was taken on the famous Elmwood Pony Farm, owned by Col. W. J. Thompson, Dorchester, Neb. This is one of the most noted pony farms in the entire western country. The stud is one of the largest in the country, numbering 100 head or more and they are of the very highest excellence. The very top of the eastern sales as well as a big lot of imported stuff is included in the number on this farm. By far the greater part of the ponies are registered, probably more than will be found in any other one stud in the central West, and they are all pure bred. Very nearly every first prize at the Nebraska State Fair last season went to this stud. The blood of the great sire, McDougal, is to be found here, as well as sons and daughters of the champion sires, King Larrigo and David Harem. Better breeding is not to be found anywhere. Many choice ponies are for sale. Write for prices and mention The Homestead.

You are cordially invited to our Tenth Annual Sale of **Short-horns** to be held at **Parkdale Farm, Maryville, Mo., Tuesday, June 10th**



For your consideration we list **12 Young Scotch Herd Headers** **37 Scotch Bred Females, 17 with calves at foot** **Many rebred to our best herd bulls.**

Bellows Bros.

TOO LATE TO CLASSIFY.

C. F. Adams' Big-Type Poland Chinas

I WILL sell spring pigs sired by my great herd boars, **Big Halvor** (generally conceded to be one of the very best big-type boars in Iowa), **Maid's Halvor 1st,** a son of **Big Halvor** and out of the mammoth sow, **Long Maid,** and one of the grand young boars of the breed. **Mammoth Jumbo,** a son of the noted **Big Jumbo** and **Grand Chief,** bred by John Miller. These pigs are out of a herd of

SOWS THAT CANNOT BE SURPASSED FOR SIZE AND QUALITY

These sows are bred in the purple, many of them being sired by the great sire, **Big Halvor,** others by **Coming Wonder, Big Nelson,** etc. I know I can please you in a pig and that you will be more than pleased with the manner in which they develop. These pigs will be worth three and four times what I am asking for them within the next year. Write me for prices mentioning The Homestead.

C. F. ADAMS - - - - - - - - **OWASA, IOWA**

25--Big-Type Poland China Sows For Sale--25

These are all strong in the blood of the strictly big kind and are bred to the 800-lb. Mouw's Big Sioux for fall litters. I am also offering to sell my splendid 2-year-old boar, Smooth Jumbo. Write me at once and mention The Iowa Homestead. Address - - - **GEORGE GLYNN, Sioux Rapids, Iowa.**

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead, **N. D. MYSENBURG, David City, Neb.**

McLAY CLYDESDALES MAKE GOOD

McLAY BROTHERS, Janesville, Wisconsin

PERCHERONS

Eleven home-grown 3-year-old stallions, exact wt. 1,840 to 2,090 lbs. Bone to spare. June 5th these and youngsters for sale. The **Biggest** Percherons pay you best. Drop a card for details.

FRED CHANDLER
Route 7,
Chariton, - - Iowa

COLLINS' JERSEY RED

You get finest Jersey Red Pigs at cost of common stock by our New Sales Offer. New Illustrated Catalog FREE.

the best pig bred

ARTHUR J. COLLINS Box 14 Moorestown, N.J.

375 lbs. in 9 months!

Linwood Cumberland For Sale

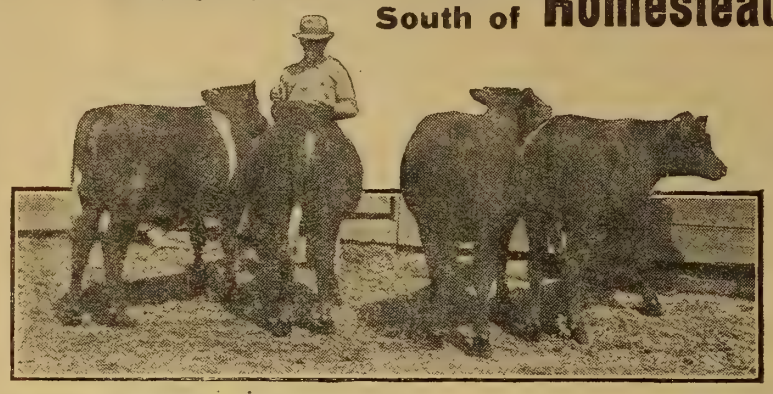
WE are offering this splendid yearling son of King Cumberland 2d, out of Miss Ramsden cow. He is a herd bull proposition. Write or come and see us at once.

H. H. POWELL & SON - Linn Grove, Ia.

HIGH-GRADE SHROPSHIRES—33 good ewes, 1 buck, 23 lambs. Am forced to sell on account of being overstocked and a shortage of pasture. Low prices. Will Thompson, Jesup, Iowa.

Extraordinary Sale of Scotch Short-horn Cattle

At the Farm Four Miles South of Homestead, Iowa, Thursday, June 12, 1913



WE have selected 80 head of extra good cattle from our herd of 300 and among those selected for this sale are a number of the very best females we own. Only cattle of the very best Scotch breeding will be sold as our herd contains Scotch cattle only. Several representatives of the Queen of Beauty family have been cataloged and we want to say this has been one of the very best families we have ever had on the farm. Other excellent representatives of the Butterfly, Avelanche, Emma, Duchess of Gloster, Flora, Missie and others have been cataloged. The 20 bulls that will sell are an exceptionally well-bred lot and are good individually. Many herd bull propositions will be offered. Any breeder needing a herd bull should make arrangements to attend our sale. We have always used the very best bulls we could obtain regardless of price and for that reason the cattle in this sale can reasonably be expected to transmit their desirable qualities to their offspring. The fact that we are selling eighty head of cattle in one day insures bargains for every man present, as this is a larger number than is disposed of at the average sale in one day. All cattle will be tuberculin tested before the sale. The two fast trains, No. 8 and No 17, on the Rock Island, will stop at Homestead on sale day. Catalog mailed only on application to

OWENS BROS. - BOX H - HOMESTEAD, IOWA

FRED REPPERT, CAREY M. JONES, GEO. H. BURGE, AUCTIONEERS

Strawberry Point, Iowa. Mr. Pederson has a few extra large fall boars that will weigh 225 pounds and he will sell these at any time and at prices that should move them. He does not wish to carry these over and therefore these special prices. If any of The Homestead readers should want one of these they had better write Mr. Pederson at once. He will make his sow sale on February 15th, at which time he hopes to offer the best bunch of brood sows that has ever been sold in his section of the state.

Learn Auctioneering.

No profession offers more attractive possibilities than does auctioneering, and there is no other line of work where today are so many opportunities. In former days no chance was offered for special training in this class of work, but now full instruction in all branches of auctioneering can be secured at Jones National School, 2862 Washington Blvd., Chicago, Ill., the original and largest auctioneering school, now entering upon its tenth successful year. A handomely illustrated catalog giving full particulars will be sent upon application. The advertisement appears on page 21.

Peter Mouw's Midsummer Sale.

On Wednesday, June 25th, at his home near Orange City, Iowa, Peter Mouw will make a midsummer sale of seventy-five head of his celebrated large-type Poland Chinas, and it will be an offering that will be especially attractive to breeders. Particularly so to those breeders who are looking for herd headers because there will be thirty-five boars in this sale, and eight of these will be sons of Big Jumbo, the boar that has been credited as being the greatest large-type boar that has ever lived. Never before has there been so many herd-heading boars in one sale as you will find in this offering. Mr. Mouw is contemplating making a trip across the water with his wife in early July and he is therefore making this sale this time. Many of the boars that he is listing are hogs that he has been using in his herd, and he has been growing them and with a view to making herd boars. The number of remarkable big-type boars that has come from the Mouw herd and today head the best herds east and west, is in itself sufficient to guarantee breeders that he will offer something they are looking for in this sale. There will be eighteen tried boars in the offering and fifteen to eighteen fall boars. Eight of these will be sired by Big Jumbo and will be from a year to under three years of age. Among these will be Oakland Jumbo, a two-year-old son of Big Jumbo. He was two last October and is a son of Miss January by Wonder 4th. He is a strictly big-type boar, a big-boned fellow and has been used with success in the Mouw herd. Square Jumbo was a two year old last February and he is sired by Big Jumbo and out of Miss January 8th by Long Wonder. Here is the making of a great herd boar, being a big-boned and good-footed fellow, in fact, he is right up on his toes, and he has a good-arched back and a deep body, together with excellent hams. He is a strictly head-boar proposition and will make a splendid boar to head any good herd. Tecumseh Jumbo is another good two year old by Big Jumbo and his dam is Tecumseh Lady by Ideal Tecumseh, he by old Tecumseh Ideal, the boar that formerly headed the O. N. Remington herd in Nebraska. Here is another splendid boar, having size and quality, good bone, arched back and deep body, and he will be liked by a great many who attend this sale. Iowa King is a May two year old and is a son of Big Wonder and out of a dam by Surprise Tecumseh by Old Miller's Tecumseh. Here is a boar that while not as finished a hog as some of the others, yet he will make one of the largest and heaviest-boned boars that he will sell. Young Jumbo is another two-year-old son of Big Jumbo, not overly fat when we saw him, but he will make a big boar. Chief Price is a fall yearling by Black Big Bone, out of a daughter of old Chief Price. There is quite a good outcome to this boar. He is also selling Long Orange, one of his older breeding boars and he is the sire of some excellent things in this herd. Long Jumbo is a two year old by Black Bone and when it comes to something particularly long and big you will get it in this boar. Fair Fellow 2d and Wonder are also the making of big boars and good herd headers. Adam's Big Hal is a three year-old and is a son of Big Halver and he is a hog with lots of size and quality and many bidders will like him. Besides these he will select the best fall boars that are sired by Big Jumbo, Black Big Bone and Long Orange and catalog them for this sale. He will also sell a splendid lot of sows at this time. A number of these will be bred for fall litter and the fall sows will be sold open. He is cataloging some excellent tried sows that are among the best he has in the herd. The younger sows will be excellent sows to go into a herd or to be put into a fall or winter sale. By all means send for the Mouw catalog and kindly mention The Homestead when asking for it. M. T. White will represent The Homestead at the sale and will care for any bids sent in his care. See page 24.

C. F. Adams' Poland Chinas.

C. F. Adams, Owasa, Iowa, has one of the good herds of big-type Poland Chinas to be found in the corn belt. This representative of The Homestead recently visited the herd and was very much pleased with the character of this herd. The noted boar, Big Halvor has been at the head of the herd for several years and is undoubtedly one of the big boars of the breed. In his six-year-old form he is carrying very little flesh, but still has the mammoth frame and heavy bone that Poland China breeders demand in this day. He was sired by Long Wonder, he by Longfellow 7th and out of Surprise A 2d, a daughter of Chief Price. Mr. Adams has twelve or fifteen yearling and two-year-old sows sired by Big Halvor that have the size and smoothness and heavy bone that all breeders desire. It is doubtful if a dozen better sows sired by one boar can be found in any herd in the state. A two-year-old boar in the herd, Maid's Halvor 1st is a son of Big Halvor and out of Long Maid, one of the very largest sows in Iowa. This boar is one of the longest, smoothest, best-backed boars we have seen in many a day. Any admirer of big-type Poland Chinas with quality could not help but like this boar. Barring an accident he will make a name for himself as a great individual and as a sire. Mr. Adams having the sire and dam in his herd would price this boar worth the money to some breeder who wants a really high-class herd-heading proposition. Grand Chief is another boar that has been used in the herd. He was bred by John Miller, being sired by Dry Creek Chief and out of Miller's Queen by Long Wonder. Mr. Adams is offering spring pigs for sale sired by the above great boars and out of a grand bunch of sows sired by Big Halvor, Coming Wonder, Big Nelson and others of note. If any of our readers are interested in buying some good big-type Poland China boars and gilts of spring farrow that are ready to ship at any time we suggest that you write Mr. Adams telling him what you want and get his price before you buy. See page 19 and when writing kindly mention The Homestead.

GALLOWAY FARMS HOLSTEIN-AYRSHIRE SALE

WILL BE HELD ON GALLOWAY FARMS,

WATERLOO, IOWA, THURSDAY, JUNE 19, 1913

Holstein-Friesian cows, heifers and bulls of popular strains. Ayrshire females of imported blood. All of extra individual merit. Big illustrated catalog ready.

WILLIAM GALLOWAY - WATERLOO, IOWA

Rees & Son's Last Call.

For the last time we want to call Homestead readers attention to the sale of Howell Rees & Son's Short-horn sale at South Omaha, Neb., on June 11th. It is a richly bred lot of Scotch cattle, sired by and bred to some of the most noted bulls in the West. They are listing some of the very best females they have had in their herd and they are also cataloging some splendid young bulls. Some of these have been leading winners at the very best shows in this country and some of these are in condition to go right on and win in their respective classes this fall. One of the most noted breeding bulls that has been owned in the West in recent years is the great Ruberta's Goods that has been at the head of this herd. As a show and a breeding bull he has measured up to the best in this country and his get in the greatest shows the past several years have always held their own and have invariably gone back home with their share of the ribbons. One of the greatest heifers seen at the fairs in recent years is Violet Goods, a daughter of this great sire and she is still in the Rees herd and doing good service. She is unquestionably one of the greatest heifers that has been out for these many years. Quite a number of her half sisters will be in this sale and they will be bred to their new bull, Whitehall Rosedale, regarded as one of the best bulls in the West today. Mr. R. E. Baldwin, Osceola, Iowa, is selling eleven head in this sale and they are all Scotch cattle. He offers three bulls among the number, one a Duchess of Lancaster, one a Campbell Mina and another a Beauty. Two of these are sired by White Knight, a son of Imp. Crescent Knight, a bull formerly owned and used by the Cargills, Canada, and later used in the good herd of Robert O. Millers, Lucas, Iowa. The Mina bull is sired by Golden Victor, a son of Nonpareil Victor, and these are all three good young bulls. He is offering some excellent cows among which is Golden Belle, with a heifer calf at foot by Royal Cumberland 2d. She is sired by an imported bull and is out of an imported dam and is one of the best cows in his herd. Another good cow that he is selling is Miss Robin, a daughter of Imp. Cock Robin and out of the great cow, Candytuft, by Banker's Victor. She will have a calf at side about sale time to the service of White Knight, and she is going to be a bargain at whatever price they pay for her. A number of other good Scotch cows are listed by Mr. Baldwin for this sale. If you have not received the catalog write Howell Rees & Son, Pilger, Neb., and kindly mention The Homestead.

Lavender Goods 2d, a splendid young Cruickshank Lavender bull, sired by Ruberta's Goods and out of a daughter of Imp. Choice Goods, to be sold in the Howell Rees sale at South Omaha, Neb., June 11th. See field note on this page.

Whitsitt Bros.' Short-horn Sale.

A study of the catalog for the Short-horn sale of Whitsitt Bros., Preemption, Ill., Friday, June 13th, reveals much of interest and among the fifty-one head cataloged will be found cattle for all classes of buyers. There are twenty young bulls listed for this sale, among them some very strong propositions. Red Masked is a two year old, got by the Thompson-bred Challenger Victor, out of a Campbell Claret dam, and is a strong bull in every way, short legged, thick fleshed, strong backed with a good head and horn. This bull is well enough bred to go anywhere and as an individual he is right. Violet's Prince is another well-bred Scotch bull, belonging to the Cruickshank Violet Bud tribe, not quite two years old, and a well-made fellow. His sire, Eastern Spur, is a well-bred Scotch bull now in use in the Whitsitt herd. This bull will stand inspection. Roan Champion is a rugged yearling by King Nonpareil, a son of Lancaster, the bull used with such marked success by Countryman & Son, and out of a dam by the Bouce-bred Fairhaven second dam by the Orange Blossom bull Amos Chruickshank Roan Champion is a bull of much promise. There are bulls in the offering for the breeder, the farmer or the ranchman and they are the dependable kind. Messrs. Whitsitt are cattlemen who handle their stock under right conditions. The final test of all beef animals is the block and if a farmer could send to market a load of steers of the same uniform excellence as the bulls consigned to the sale they would be toppers. But it is not alone in the bulls that excellence is found in the offering. A decidedly good lot of females will be offered. Sweet Violet and Sweet Violet 2d are twin red heifers of June 22,1912, got by the superior breeding bull, King Nonpareil, and are a decidedly attractive pair of heifers. Lady Clarinda, by King Nonpareil, out of a dam by Golden Prince 4th, second dam the imported cow, is a Campbell Claret and a very attractive yearling heifer. Princess Gift is a nice two-year-old Violet Bud, bred to Nonpareil King, and Rosemary, by Challenge Victor, out of a dam by the Purdy-bred Lovely's Victor, sells with a nice red heifer calf at foot. There are a lot of good well-bred, useful cows in this sale, all milkers and only one over four years of age. Those who attend will not be disappointed. The sale will be on the farm, which adjoins the station at Preemption on the Sherrard branch of the Rock Island, twenty-two miles south of Rock Island. The Rock Island Southern Interurban from Rock Island to Monmouth and Galesburg runs one and one-half miles west of the farm, and cars will be met at Dorothy. The advertisement of this sale appears on

LIVE STOCK AUCTIONEERS.

H. S. ALLEN, RUSSELL, IA.
LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. I have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

N. G. KRASCHEL
HARLAN, IOWA.
LIVE STOCK AUCTIONEER

I am conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

COL. H. L. IGLEHEART

Elizabethtown, Kentucky

LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

I KNOW THE DUROC.
I KNOW THE BREEDERS.
I KNOW THE BUSINESS.

COL. W. M. PUTMAN
TECUMSEH, NEBRASKA

I am in a position to make you money. Am now booking sales for fall and winter.

CAREY M. JONES,
Live Stock Auctioneer,

2856 Washington Blvd., Chicago, Illinois

O. L. MOSSMAN,
LIVE STOCK AND REAL ESTATE AUCTIONEER.

Pure-bred sales a specialty Write for dates
MASON CITY, IOWA.

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THE IOWA AUCTIONEER

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Nevada, Iowa

Live Stock and Real Estate Auctioneer.
23 Years' Experience.

W. J. THOMPSON

AUCTIONEER PEDIGREED LIVE STOCK
Proprietor Elmwood Pony Farm. Shetland Ponies for sale.
Dorchester - - - - - - - Nebraska.

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Both 'Phones.

B. H. KECK, MT. PULASKI, ILL.
AUCTIONEER

Write for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

W. B. CARPENTER
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Also President Missouri Auction School, 1400 Grand Avenue, Kansas City, Missouri.

E. Z. RUSSELL, LINCOLN, NEB.
LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

COL. G. W. HALLER, Spencerville, O.

Horse and Hay Sale a Specialty
Sale tent free with services. Write for dates

J. H. BARR,
Auctioneer.

Pedigreed live stock. Write for dates. Hebron, Neb.

page 22. Look it up and write for a copy of the catalog to Whitsitt Bros., Preemption, Ill. Kindly mention The Homestead.

Meyers' Short-horns.

M. W. Meyers, Beaman, Iowa, is a gentleman who has gotten together an excellent collection of Scotch Short-horns during the past few years. He has not made much noise in making this collection, but has quietly purchased some of the very best Scotch cows he could obtain and at the present time has a herd of females that is a credit to his judgment. He is offering some bulls for sale at the present time, among them a red March yearling bull sired by King Banff 3d and out of Orange Flora by Orange Duke 2d, second dam by Prince Victor. This bull is of the Mar Flora family and is a well-grown calf of good type. There is an April yearling red bull by the same sire and out of Sultana Barmpton by Village Sultan, he a son of Whitehall Sultan. The second dam is sired by Duke of Oakland 3d, one of the good sires that has done service in Iowa. This bull is of the Barmpton Leaf family. The sire of these two calves, King Banff 3d is a grandson of Lord Banff and out of imp. Fairy Violet by Master Archer. Mr. Myers has three Scotch-topped bulls for sale that are good, growthy bulls of beefy conformation. The herd of females are ofthe Dorothy, Milk Maid, Victoria, Flora and Brampton Leaf families. Any of our readers in need of a good Scotch or Scotch-topped Short-horn bull should write or visit Mr. Meyers at once. When writing kindly mention The Homestead. See page 22.

Mysenburg's Herefords and Chester Whites.

One of the good stockmen and practical farmers of central Nebraska is N. D. Mysenburg, David City,. Mr. Mysenburg has been breeding choice live stock for many years and about five years ago he began the breeding of pure-bred Herefords and some time later began to breed pure-bred Chester White swine. Last season he made some very valuable additions to the Chester White herd by buying a half dozen or more bred sows in the Chas. H. Murray sale. These are very nicely bred and are a really valuable lot of stuff. The Hereford herd has had many valuable additions, in fact this herd contains many of the top females of many noted western sales that have been held the past few years. The present herd bull is for sale and is being advertised on another page of The Homestead. He is an excellent sire and is four years old. He is Beau Donald C. 1st by Beau Donald 37th and he is out of the great breeding cow, Victorin 3d. Beau Donald 37th was formerly owned by W. W. Wheeler, Harlan, Iowa. He was one of the very best Hereford bulls of his time. The writer knew much of him and we regarded him very highly. Victorin 3d was one of the choice females of the Wheeler herd. Mr. Mysenburg offers this bull for the reason that his herd is full of his breeding and for no fault of the bull. He is individually good enough to head any herd and his breeding is of the fashionable sort. A couple of young bulls old enough for service are also offered as well as a nice lot of select females. We would suggest that Homestead readers write Mr. Mysenburg at once for prices on these cattle for they are right and priced well worth the money. Kindly mention The Homestead when writing.

Owens Bros.' Short-horn Sale—Last Call.

The Owens Bros. sale, June 12th, will afford the young breeder or beginner an opportunity seldom offered to purchase a few females bred right and individually right at conservative prices. Every female in the sale is of the best Scotch breeding having descended from families that have made good in the Owens herd. They are an excellent lot of individuals as one would expect from such superior breeding. The price should be conservative as there will be eighty head to sell in one afternoon which in itself would insure bargains. Owens Bros. have been breeding a class of Short-horns that pay a profit and that is what the average man wants. Their cattle are reared under ordinary farm conditions. The milking qualities of the herd have been carefully looked after. Each cow raises her own calf and does that mighty well as those present sale day will see for themselves. The sixty females in the sale consist of twenty cows with calves at foot a number of cows and two-year-old heifers that are safe in calf and a number of fine yearling heifers. There are twenty-five excellent representatives of the Queen of Beauty family. This family has had much to do with the popularity of the Owens Short-horns as they are excellent milkers, good feeders and of the best beef type. Beauty May 5th, Prides Lady 2d, Happy Pride 2d, and Red Crest are of this family and are among the good cows of the sale. B. O. Cowan visited this herd in 1909 and selected Lady Pride 2d as the best female in the Owens herd at that time. Red Crest has a fine heifer calf at foot and has a yearling and a two-year-old heifer in the sale. She is a heavy milker and a good breeder. Happy Pride is one of the very best females in the sale. She has a good bull calf at foot. Beauty May 5th is another big, broad-backed, smooth cow that will look good to any Short-horn breeder. Geraldine 13th is of the Gardenia family and is of the right stamp for a good breeding cow. She is a daughter of Courtier 5th second dam Baron, Cumberland, Pride of the Isles, Royal Duke of Gloster and Champion of England in the list of sires. Susan Lady 4th is a Parsons-bred cow of the Lady Susan family and sired by Scottish Champion. She is a good breeding cow and will have a calf at foot. Good specimens of the following families are cataloged: Missies, Butterflies, Floras, Dorothys, Secrets, Victorias, Emmas, Elizas, Violets, Avanlanches and others fully as popular. The calves are sired by and the cows bred to the good stock bulls in service in this herd. These bulls are Cumberland Dictator, a grandson of the celebrated Cumberland's Last, Sultan Goods, a grandson of Whitehall Sultan and Choice Goods, two sires that have done more for the Short-horn breed than any other two bulls used in America during the past quarter of a century, Scottish Lad and Scottish Victor, two bulls bred by Owens Bros., that are making good as sires. Every animal in the sale has been tuberculin tested and a certificate of health will go with each animal sold. The sale will be held at the farm four miles south of Homestead. Arrangements have been made to stop trains Number 8 and 17 at Homestead on sale day. This will be a great convenience for those coming from the Rees sale to be held at Omaha on June 11th. A handsomely illustrated catalog has been issued and will be mailed only upon request. A postal card or letter will bring it if addressed to Owens Bros., Box H., Homestead, Iowa. See their advertisement on page 20.

GALLOWAY FARMS SALE

Prize-Winning Strains

Holsteins and Ayrshires

WATERLOO, IOWA, JUNE 19th

THIS sale will include a magnificent collection of superior Holstein-Friesian and Ayrshire cows, heifers and bulls—the kind that win champion ribbons—the kind that beats the world in the dairy—the kind that makes money on the farm. Constitution, vigor, assimilating qualities and strong milkers. Get my catalog which gives most important information. Address

WILLIAM GALLOWAY
GALLOWAY FARMS - WATERLOO, IOWA

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
J. L. Thatcher, Manager.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. D. Nichols Live Stock Co., Cresco, Iowa.

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RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.
FRANK J. CLOUSS. Barnum, Iowa.

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

Red Poll Bulls

Including present herd bull. Call or address
F. W. Haning, Truman, Minnesota.

Twenty-fifth Annual SHORT-HORN SALE

At Prairie Heart Farm

Preemption, Illinois, June 13

51 HEAD ---18 BULLS--- 51 HEAD

An offering that will please the buyer

SOME of the best cattle ever produced at Prairie Heart Farm, where Short-horns have been bred for 50 years, are included in the sale. Thirty-three females are cataloged, 14 of them open heifers, and all the balance have calves at foot by King Nonpareil, or are bred to him. Only one female in this offering is over four years old. All young and workers. 18 GOOD BULLS, including several Scotch-bred herd-heading propositions, are listed. Bulls for the breeder, farmer and ranchman. The beef type. Send today for the catalog and arrange to attend the sale. Mention The Homestead. and address

WHITSITT BROS., PREEMPTION, ILLINOIS

Cols. Carey M. Jones, George Burge and Lipton, Auctioneers.

Preemption is in Mercer county, on Sherrard branch of Rock Island. Parties will be met at first crossing south of Southern Junction on Rock Island Southern Electric.

DUROC JERSEY SWINE.

20 CHOICE DUROC JERSEY FALL BOARS 20

I AM offering 20 choice, big, lusty fall boars for sale sired by C. Indicator 118489 and out of my very best sows. For quick delivery $25 to $50. Address, mentioning The Homestead,
W. J. WENDT, REMSEN, IOWA.

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mount's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

DUROC FALL BOARS FOR SALE

SIRED by Defender Junior, he by Defender, will weigh about 200 lbs.; also have some fall gilts, bred August farrow will sell cheap if taken at once.
D. NAUMAN, WEST LIBERTY, IOWA.

MENAUGH BROS.

GARDNER, ILLINOIS.

Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Address
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DUROC JERSEY BOARS Four August boars by Colonel Tyler. Heavy boned and lengthy. $30 each if taken soon.
Gus Davisson, West Liberty, Iowa.

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

MIDLAND DUROCS Bred sows all sold. One yearling boar for sale or exchange for fall pigs. Address S. J. Butts, Mason City, Ia.

DUROC JERSEY FALL BOARS for sale; also trios. reasonable prices,
L. L. DE YOUNG, SHELDON, IOWA.

DUROC JERSEY FALL BOARS

October boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears. A good pig at a fair price. **J. C. Porter, Ogden, Iowa.**

DUROC JERSEY FALL BOARS

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G. O. SATRE'S CHESTER WHITE FALL BOARS

THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two-year-old boar, Royal Banner 22289, by Perfection by Climax. Descriptions and prices furnished on request.
G. O. SATRE - - - JEWELL, IOWA

Orme's Prize-Winning Chester Whites I am offering 4 all boars, 10 fall sows. $25 ea. A.C.Orme,Nodaway,Ia.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles,Iowa.

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O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. **FRED RUEBUSH, SCIOTA, ILLINOIS.**

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SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH - - - - NEWTON, IOWA

16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have another good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
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I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale** as I can spare him. He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
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SIX good Short-horn bulls 10 to 14 months old. We invite your inspection. Address
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Bates Bred SHORT-HORNS

are large producers of milk and butter fat. Come and see my herd and be convinced.
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LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy,dam Lady Annie 16th by Imp.Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
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THESE range in age from 18 to 30 months and are safe in calf to **Velvet Goods.** Also a few choice young bulls. Address, mentioning The Homestead,
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5 SHORT-HORN BULLS

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I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
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ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sales at all times. Write us and come and see our herd. Address Escher & Ryan, Botna, Iowa; Chas. Escher & Sons, Botna, Iowa.

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WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

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I HAVE 7 bulls, all grandsons of Black Woodlawn, with quality that I am offering at farmers' prices. One is a toppy Blackbird calved last May. They are from 11 to 16 months of age. Call on or write
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50 HEAD HEREFORD BULLS FOR SALE 50

WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.
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A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
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WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor,roan,Scotch bred 3 yr.olds,and calves 6 to 12 mos.,choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

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IS RETIRING FROM "HORSE BUSINESS"

CLOSING OUT All his Show and Business Stallions at..... REDUCED PRICES

Iams is making a "clean up" of his horses. All will be sold at "some price." He has his "Paris Winners and Best Stallions" in his barns. Prize Winners, $1,000.00 and $1,200, some higher. His 1913 "show" stallions must be sold in 30 days.

Iams is making prices $200 to $500 "less than formerly" on each stallion to make a "Quick Clean Up" (In next 30 days)

Paris Prize Winners at Cost in France

Buy a ticket to "Iams town" and take advantage of Iams' "Reduced Prices." Never were such choice "Big Prize Winners" offered at such "Big Bargains"—all must be sold. They are "Model Drafters." Iams' "Old Customers" make his "Best advertisers." His "Percheron Stallions" are the very best he ever imported. They are of "Big Size," large bone, model, smooth "Drafters" of quality, fine form, finish and style, fast movers. Among them are several

"PRIZE WINNERS AT PARIS"

NOGENT-le-ROTROU and CHARTRESS (three largest shows of France). They are all fully acclimated and in the "Pink of Condition." They were bought to sell. All must be sold at some price. I know France and leading breeders there. I speak the languages and know how to "Buy Horses" at "Big Bargains," and I divide "The Bargains" with my customers. Iams has a choice collection of

IMPORTED PERCHERON STALLIONS

3 to 6 years, "Registered and Inspected" by Governments of France, weight 1,800 to 2,500 lbs. All "Branded," Approved, "Registered and Inspected" by Governments of France and U. S. and Certificates "Stamped" O. K. All inspected by a Nebraska Deputy State Veterinarian and Certificates of "Health and Soundness" are given with each Horse. Iams sells

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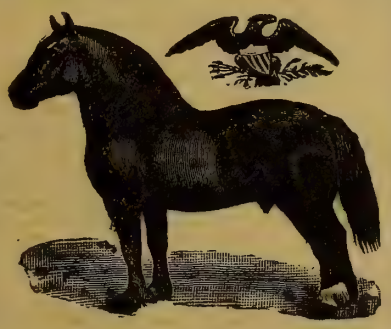
(few higher.) Terms cash, or one year's time at 8 per cent bankable note, one and two years' time Land Security at 6 per cent; $100 less price for cash than time. Iams pays freight and buyer's fares, gives 60 per cent breeding guarantee; can place $1,500 insurance. Iams backs up his ads with a $500 guarantee that you find the Horse as represented. Write for Horse Catalog. It has a $1,000 "Bargain" on each page.

REFERENCES—First National and Omaha National Banks, Omaha, Neb. Packers' National Bank, South Omaha; Citizen's State, First State and St. Paul State Banks, St. Paul, Neb.

ST. PAUL, NEBRASKA.

Special Sale of Percheron and Belgian Stallions For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

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PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

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PERCHERONS, BELGIANS, SHIRES, MAMMOTH JACKS and JENNETS

SOME extra good home-bred stallions. Percherons and Shires, pasture raised and in splendid thrift. The sort to do a lot of hard service. A few extra high-class big jacks 3 to 5 years old and 30 jennets, all ages. Democratic prices on this stock for next 30 days. Want to close them out. Address, mentioning The Homestead.

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A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address

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Eight miles west of Cedar Rapids.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

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The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW! V. W. HARMS, FAIRBURY, ILLS.

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60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address

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Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

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TWO choice stallions, one imported, showing size and style and one home bred, with quality. Priced reasonably. Short-horn bull, fifteen months old, well bred. Address

HELD BROS. Box 7 HINTON, IOWA.

Purchase Percherons

There is a fundamental reason why the breeding of draft horses will continue profitable.

From 1900 to 1910 the population of the United States increased 21%. Horses increased only 8%. Cattle decreased 8%, hogs 7%, sheep 14%.

This means increased tilled acreage and increased demand for horse power.

For full information address Wayne Dinsmore, Sec'y, Percheron Society of America, Union Stock Yards, Chicago, Illinois.

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address

F. A. STOOKER, - Dunbar, Nebraska.

Palestro I. 52027 (67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret (47526) by Theudis, by Besigue, by Brilliant III, and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

FOR SALE Two Shetland pony stallions, one and two years old, full brothers, matched, weight of eldest 560. S. A. Wolcott, Gilmore City, Ia.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. MILLER, Route 1, Lucas, Ia.

PERCHERONS Imported and home-bred stallions and mares from $200 to $900 each. Address H. REDENIUS, RUSHMORE, MINNESOTA.

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STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

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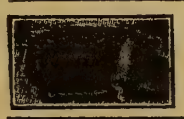
Sunny Slope Hampshire Swine

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.

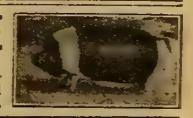
C. A. BROOK, WASHINGTON, IOWA.



PRIZE-WINNING HAMPSHIRE SWINE

I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE



HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 100 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. CLAYTON MESSENGER, KESWICK, IOWA.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address

HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

R. L. BOLLMAN, COAL VALLEY, ILL.

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. R. L. BOLLMAN, COAL VALLEY, ILLINOIS

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today. MIKE SHARP & SONS, COAL VALLEY, ILLINOIS

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, DE KALB, IOWA.

Valley View Hampshires Nothing left at present but fall pigs. Address Fred Wheeler, St. Charles Ia.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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50 HIGH-CLASS ABERDEEN ANGUS CATTLE

AT PUBLIC AUCTION, WEDNESDAY, JUNE 18, 1913

AT THE UNION STOCK YARDS PAVILION, CHICAGO, ILLINOIS

50 HEAD---10 BULLS, 40 COWS AND HEIFERS---50 HEAD

THERE is no question but what this is the most select lot of Aberdeen Angus cattle sold in Chicago in recent years. All of the most fashionable families are represented—Blackbirds, Trojan Ericas, K. Prides of Aberdeen, Queen Mothers and other popular families. Many of the animals cataloged are sired by the most renowned champions and their individuality is such as to please every one who is in the market for good cattle. The contributors are among the oldest and most successful breeders in America. The bulls listed are fit to head any herd in the land and some of them are excellent show yard prospects. They are the kind that will please the breeder or farmer who may be in the market for a bull to sire the market-topping steer. The cows and heifers are a most useful lot and will make money rapidly for whoever invests in them. Every one is guaranteed to be as represented. Send for a catalog and arrange to attend the sale. Mention The Homestead when writing.

M. A. JUDY, Sale Manager - - - - - **WEST LEBANON, INDIANA**

AUCTIONEER, COL. SILAS IGO.

PETER MOUW'S GREAT MIDSUMMER SALE

75 HEAD OF HIS CELEBRATED BIG-TYPE POLAND CHINAS

ORANGE CITY, IOWA, WEDNESDAY, JUNE 25, 1913

35 HEAD CHOICE HERD BOARS--35

18 tried boars and 12 to 15 fall boars. Eight sired by **Big Jumbo** ranging in age from one to two years and every one an outstanding herd boar. The **greatest offering of strictly big-type boars of herd-heading character that has ever been offered in one sale in this country.** Read the field note about these boars.

M. T. White will represent The Homestead at the sale and will care for any bids sent in his care.
AUCTIONEERS: BENSON AND COTTINGHAM.

Peter Mouw, the originator of big-type Poland Chinas.

40 CHOICE SOWS AND GILTS--40

I am selling **15 tried sows and summer gilts** all sired by my most noted herd boars and all bred to my best herd headers for fall litter. Also 25 of my very choicest fall gilts—the pick of the herd—all of which will be sold open. These are all of my own breeding and are the best I have in the herd. Write for catalog at once and kindly mention The Homestead. Address

PETER MOUW

ORANGE CITY - - - - IOWA

POLAND CHINA SWINE.

COOPER'S BIG-TYPE POLAND CHINAS. Guaranteed Cholera Immune

100 HEAD of pigs of spring farrow for sale, either sex, can furnish boars and gilts unrelated. These pigs are from sows weighing from 500 lbs. yearlings up to sows of over 800 lbs. in weight, representing the biggest blood lines and the most noted families of the breed. They are sired by Big Expansion, the 800-lb. 2-year-old son of the noted Dorr's Expansion; Big Bone 2d, weighing 900 actual pounds, and a son of the great Big Bone, Chief Leader, an outstanding 14-months-old boar weighing 500 lbs. today, and other boars of same likeness. These pigs will be ready to deliver beginning in June. They are from immune sires and dams and have received the double treatment. We will guarantee them cholera immune at

$35.00 EACH OR THREE FOR $100.00.

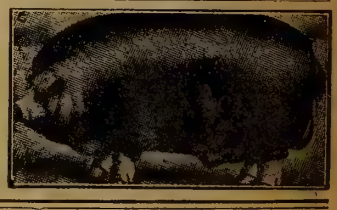
We will refund your money if they die from cholera. We guarantee them to be breeders; we guarantee safe delivery and record everything; have orders booked now from 9 states. If you want the biggest of the breed send us your order. We guarantee satisfaction.

W. H. COOPER - - - - - - - - - **HEDRICK, IOWA.**

BIG BONE 2d 161497.

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25** to **$35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**



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The Iowa Homestead

VOL. LVIII. NO. 24 DES MOINES, IOWA, JUNE 12, 1913. WHOLE NO. 2905

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(118)

Summer Care of the Auto.

By Henry Hatch.

A GREAT deal has been written about the care of an auto during the winter months, but very little is said about the care of the machine during the summer season, when it is used three or four times as much as it is during the cold season. Perhaps this is because cold weather has a habit of magnifying all gas engine difficulties, and such machinery is supposed to take care of itself when the weather favors its use.

It will soon be four years since I became a possessor of an auto. During this time I have learned much about the "critter" that is not commonly told in books or automobile magazines and that is seldom mentioned by the auto agents. When I hear a man brag about his car, telling how many hundred miles he has run it without grinding the valves or even cleaning the spark plugs, I cannot consider that anything to brag about, but rather the admission of neglect, for spark plugs should be cleaned every 500 miles (and oftener if oil is being used freely) and if you would get the most power from your engine for the gas used you will grind your valves every 1,000 miles. Because the modern gas engine does not stop stockstill when it needs attention, it frequently happens that it does not get the attention it needs as soon as it needs it, and folks will brag because it will run without the atention it should have.

But the editor has asked me to say something about the care of the auto during the summer season. Let us suppose the car has been put in good shape for the season early in the spring, which means grinding the valves, scraping out the collected carbon and otherwise overhauling all parts. This is a good job for the early spring, after the weather has warmed enough to permit of such work and while the fields are drying off enough so farm work may be started. You see I am assuming that you are going to do the most of the work on the auto yourself. If at all mechanically inclined, you had better do it, even though it might be cheaper to hire it done, because by doing this work yourself you learn things that you just simply will not learn unless you do. As I live a considerable distance from town and twelve miles from a first-class garage, necessity has compelled me to "learn the critter" or else give up the use of the auto.

As the weather warms up, the first thing you will find about your auto that will work differently will be the carburation. You will find that the carburetor needs adjusting. During the spring season, when one day is warm and the next day may be cold, it is a hard matter to get a satisfactory adjustment, and it is best not to do too much changing, unless you have learned your carburetor so well you know almost without testing how much of a change to make. When making a change I usually keep in mind the number of quarter or half turns given the thumb adjustment, then I know just about the kind of a change needed for warm weather and cold. After summer weather comes to stay, however, I get an adjustment as nearly right as possible, then let it alone, unless it gets out of order and requires attention. When the auto was new to me the carburetor was a great mystery, but one day the machine balked on me when seventeen miles from a garage, and the trouble was traced to the carburetor. It was up to me to take the carburetor apart to locate and remedy the trouble, or be hauled in by team. I chose "digging into the thing" and since then the carburetor has not been such a mystery. I mention this to illustrate the need of farmers to know the machinery of their autos, and that the best way to get the needed knowledge is to "tackle it" when anything goes wrong, being sure to "save the pieces" so if you cannot get them back together they will be there for someone else to assemble.

The oiling system of most cars works different in summer than in winter, many requiring a different grade of oil for hot weather than for cold. Some oils will not stand the heat that other oils will, so it often happens that the oil which seems best for winter use burns up too quickly during the summer, and is not the oil to use from an economical as well as from a mechanical standpoint. The best way to determine the oil to use is by test. If your engine heats up in hot weather and when working over heavy roads, you can then have a chance to know your oil; if it burns quickly, thereby causing you to leave a trail of smoke behind you, one of two things is wrong—you are using too much oil or the oil you are using will not stand high temperatures without burning. If you know your oiling system is working right, then it is time to change to a different oil.

The cooling system of the auto comes in for about as much attention during the summer as it does during the winter, but in an entirely different way. In the winter difficulty is sometimes experienced in keeping the engine warm enough, and if anti-freeze is not used in the radiator, there is always the possibility of a freeze-up to be watched. During the summer season the problem is to keep the engine cool, that is cool enough so everything works well, for any gas engine must be warm to develop the maximum of power. The water in a a water-cooled engine is supposed to be always at the boiling point around the cylinders to be sure of best results. Of course, it is not supposed to boil in the radiator, but no damage is done if it does, providing the radiator is kept reasonably full and sufficient lubricating oil is being used to prevent pistons from sticking. It is a good idea to use nothing but soft rainwater in the radiator, as scale will not form from soft water, and to change the water quite often and thoroughly flush out the water system when changing water. By all means see that the circulation is unobstructed.

Of course, it is assumed that you are keeping all gear cases filled as full as they should be with the right kind of transmission grease. This can be a somewhat heavier grease for summer than for winter, as it will be more inclined to work around loose or worn shaftings and boxings during warm weather if too thin. Knowing that your oiling and cooling system is working right, and that your engine is up in trim, there is always the tire proposition to look after. Tires should be kept fully inflated at all times, but the fact that heat produces a greater pressure should not be lost sight of. A tire that registers a pressure of seventy pounds when starting out will easily register a pressure of eighty after an eight-mile run over a hot road, on a hot day. When the road is hot and the weather hot, it is a good idea to cut down from five to eight pounds on air carried in tires, as the heat will soon put that much in a tube. A patched tube is almost sure to give trouble during the summer season, for the simple reason that the extra heat will burn the patches off. A thorough job of vulcanizing makes the only permanent repair on a tube for warm weather. Small vulcanizers will do this at almost no expense, and you can quickly learn their operation, but if you do not care to do this, by all means let a cement patch on a tube be only a temporary repair, having the rent vulcanized as soon as you get where it can be done, as that is the only way to be free from tires going flat in hot weather, causing delay and disgust with the whole tire proposition.

If I can be of help to readers of this paper during the coming summer season, in the care of their autos, I will be only too glad to make such suggestions as nearly four years of experience with an auto enables me to make. I do not pretend to know it all, but I am learning all the time, and it is realized that the longer a person runs a machine the faster he learns. What little I do know I am perfectly willing to pass around, so if I can answer any question you wish to ask or can help you out of a trouble, I will be only too glad to do so.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 12, 1913.

Profit in Co-operative Marketing

How the fruit growers' associations of two southern states proved of immense value not only to the producer, in the way of better prices, but also to the consumer, in the way of more uniform products.

THE value of organization and co-operation, not only to the producer in the way of better prices, but also to the consumer in the way of finer and more even grade products, was strikingly shown in the strawberry marketing of Missouri and North Carolina this spring. The story deals only with the production and marketing of a single fruit, but its lesson is so obvious as to be of value to every farmer, no matter what or how varied his crops.

Two-thirds of the immense strawberry crop of southern Missouri, totaling fully 16,000,000 quarts, was handled this spring by the Ozark Fruit Growers' Association, whose guaranteeing stamp was ample surety to the purchaser that the enclosed fruit was of high quality and uniform grade and whose careful inspection and marketing methods brought to the producer a better and more uniform price than was obtainable through individual shipping. The manner in which the Ozark Fruit Growers' Association works is shown by this account of the activities of the berry growers in and around Pierce City, Lawrence county, in the extreme southwestern part of the state.

To begin with, the Ozark berry crop this spring was not only high grade, but bumper. Good beds averaged 150 crates to the acre, prevailing prices being close to $2.50 a crate of twenty-four quarts. At ten cents per quart, f. o. b. cars at Pierce City, the 800,000-quart crop brought in about $80,000, of which about $55,000 was net profit, the balance being allowed for cost of picking, packing and drayage to town, and cost of association commissions for handling the crop. As a great many of the farmers did not have to pay out money for picking their crop, the family being able to do that work, they saved the two cents per quart which was the regular price charged as expense against the crop in the above figures

The berries are unusually large and firm this year, the cool weather permitting them to attain large growth before ripening. The average count in a standard quart was about fifty berries, while seventy-five berries in a quart will pass for "fancy grade." The berries were so uniformly large that there were very few second-grade berries packed. J. H. Mettlock selected twenty-six strawberries from one day's picking which made a heaping quart. Any other grower could have done as well by taking a little time to sort out the extra large berries.

Commission men have been paying a premium for berries from Pierce City for several years, for the Pierce City Fruit Growers' Association is the only organization in the berry district requiring all of their growers to pack in hinged-lid crates. The hinges are

UNIFORMLY HIGH-GRADE BERRIES, BEARING THE ASSOCIATION GUARANTEE.

only two short pieces of tin holding the back of the lid to the crate, but they keep the lid from getting lost or broken when it is not nailed down. The hinged lid is especially convenient to handle when the berries are being inspected or exhibited and the extra expense has been a fine profit maker for the growers.

Each grower grades the berries as they are brought to the field packing shed by the pickers. The berries are inspected again by a representative of the Ozark Fruit Growers' Association, with which the Pierce City Fruit Growers' Association is affiliated, as soon as received at the shipping station. If they are not up to the association standard for size, condition and quantity, they are accepted as second grade or rejected entirely as the conditions warrant. After the association inspector has accepted the berries, the association guarantees them to whatever market they are sold. Each grower has to stamp on every crate he sells, his name and number in the association, so that every complaint can be traced back to the grower, and if there has been any cheating in the packing, which the inspector failed to notice before shipping, the buyer is allowed a rebate and that amount is charged to the grower. However, the growers realize the value of keeping their reputation up to the top notch and do not try to hurt their own interests by cheating.

What the Ozark Fruit Growers' Association has done for the berry growers and the berry crop of Missouri, the East Carolina Truck and Fruit Growers' Association has done for the farmers farther south and east. The manner in which this association carries on the task of marketing its produce systematically is well worthy of study and emulation.

With the aid of a corps of assistants the secretary of the association, in his office at South Rocky Mount, North Carolina, has at his finger tips every condition that could affect the demand for the fruit on all the big markets. He knows how many car loads each market received the previous day and how many independent shipments that day, what price they brought, what condition the berries were in, how much stock is left unsold, weather conditions, which to a large degree regulate the demand, and all other data which in any way could affect prices. The shippers of car-load lots or more at all the various strawberry points receive this information by wire late in the afternoon and upon this information they base their shipping instructions by wire to the secretary. If a shipper learns through these advices that cold, rainy weather prevails at Pittsburgh, or that the market has been glutted with berries the previous day, or that a lot of fruit in bad condition has been shoved on the market, he accordingly instructs the association secretary to send his berries to his commission connection in New York or some other point where conditions are more favorable.

When markets are overburdened with any product the prices go to pieces, but a practical plan of controlling distribution prevents that and keeps the berry markets from becoming demoralized. Prices are not fixed and are therefore not arbitrarily controlled, but wise distribution better regulates the supply to the demand and prices assume normal proportions. While one market may have a greater supply than is necessary to meet the demand, another may be cut out of its share in the supply. The organization long ago realized that the key to wise distribution lies in the knowledge of the number of car loads that are necessary to supply the demands of the various large cities, and along this line is the daily distribution analyzed and carried out.

The East Carolina Truck and Fruit Grow-

OFFICIALS OF THE PIERCE CITY (MO.) FRUIT GROWERS' ASSOCIATION INSPECTING GRADED STRAWBERRIES FROM THIS YEAR'S SPLENDID CROP.

(Continued on page 9.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

EXPERIENCE IN SAVING HAY.

As the weather is the most important factor that we have to deal with in saving the hay crop, an element over which we have no control, it is difficult to lay down hard and fast rules about when to cut hay or even in regard to methods of handling after it is cut. In most cases we have to do what is expedient even though this does not harmonize in the least with scientific principles. This is not equivalent to saying that familiarity with sound principles is of no avail. In the following communication received from a Missouri subscriber, some of the fundamentals are dealt with:

As climatic conditions differ so do the methods of putting up hay, yet there are certain principles to be taken into consideration that are the same for all localities. There is some difference of opinion as to the proper time to cut timothy, but anyone who has handled a great deal of hay knows that late-cut hay will not prove as palatable to stock as if cut at the proper time. It will be stiff and dry, though it will make a heavier yield than if cut early. The proper time to cut timothy is while in the "second bloom" which is really just when dropping the bloom, and before the heads have turned brown to any considerable extent. Clover must be cut when the first heads have dried, say when half the blooms have turned brown. When sown with timothy it will be necessary to let the clover get a little overripe in order that the timothy may be in condition to cut at the same time.

One of the most economical methods of handling a large crop of timothy or clover is to stack in the field, using the large sweep rake to gather the hay and take it to the stack. For the small farmer, however, a better method is to haul the half-cured hay directly to the hay barn.

We cut our clover early in the morning and in the afternoon rake into windrows and put in small cocks. If the weather will permit, it is left till the morning of the second day, when it is put in the stack or hay mow. The advantage of handling clover from the shock or windrow in the forenoon is that fewer leaves will be lost from shattering. Clover hay cannot be cured without sunshine, and neither can it be cured bright in the swath or windrow. It must be put in small cocks and partially cured at least. Nothing on the farm will pay better than canvas covers for the hay cocks. Clover will not turn water, and too often the weather will not permit of its being left out till cured. If clover hay is stacked in the field, there must be a covering of grass hay or other protection against rain. This covering should come well over the edge of the stack.

There is little advantage in cocking timothy or red top, as this hay will cure in the swath, but should not be left to bleach after it has dried sufficiently to put away. If to be stored in the mow, hay cut in the forenoon may be hauled in during the early afternoon. If stacked it should be well cured. If hay is cut late in the afternoon it will not be damaged in the swath by heavy dew or even a rain, but if half cured it should be put in the windrow or small cocks.

Alfalfa requires more care in humid climates than does most of our other hay crops. The stalks contain a great amount of moisture, and this must be cured out before stacking. The only successful method is by putting small cocks and using small stack covers. A well-rounded cock thus protected will come through a rain in good shape. Since alfalfa will lose some of the leaves if handled dry, it is better to haul in the cured hay early in the morning while the dew is on. In unfavorable weather it is at times necessary to turn the cocks and scatter the hay. When this is done it is better to turn the entire cock edgewise instead of to invert it. This will allow it to fall apart so that the sun and air can reach the center.

While it is true that the best quality of hay can only be made when the crop is cured in the field in small cocks, yet the labor item is such that this plan cannot be carried out on the average farm. With the side delivery rake at hand considerable drying must be allowed before the crop is touched after cutting so that when it is put in the windrow a day's curing will make it fit for the mow or the stack. Where it can be cocked so much the better, but in most cases the quickest way of getting it under cover is, after all, the best way.

AGRICULTURE IN PUBLIC SCHOOLS.

The recent Iowa legislature enacted a law requiring the teaching of elementary agriculture in all the public schools of the state after July, 1, 1915; also that elementary agriculture be included among the subjects required in the examination of applicants for teachers' certificates. By taking this action Iowa enrolled itself among the progressive grain-belt states which have at last awakened to the necessity of making the public school courses of study practical and of everyday significance and value.

Ten years ago it would have been considered a wild dream of the imagination to require farming to be taught in the public schools not only of the country but of the city. Five years ago those enthusiasts who predicted the day when this would occur were greeted with an incredulous smile and all too often with ridicule. And yet what is going on today? Last year in 103 out of the 114 counties of Missouri 30,938 pupils of the rural schools studied elementary agriculture. One county reported 1,200 pupils in this subject; another county reported 800, the smallest number being thirty. At this ratio for 103 counties, the entire number in the state was 35,000, more than the total number of pupils enrolled in the seventh and eighth grades, in which the subject is now being taught. Prof. R. H. Emerson, of the University of Missouri, accounts for the discrepancy by the fact that many pupils who complete the common school course in the country do not have high school advantages, on account of which they spend a year or two more in the rural schools, reviewing some of their work, agriculture usually being one of the subjects.

We are indebted to Professor Emerson for the following outline of what the rather fragmentary teaching of agriculture today will develop into in the near future:

The next step will be to improve the teaching of agriculture and to make it count for as much as possible. Some rural teachers are putting life into this work and are meeting with remarkable success. Other rural teachers have prepared notebooks containing reports of experiments, reports on original investigations, compositions on special agricultural subjects and elementary surveys of the agricultural products of the school districts. Many of these notebooks are excellent in their makeup and would compare favorably with those prepared in the high schools. These results are found in schools where teachers are putting time and thought and life into the work.

The subject as taught at present, in a large number of schools, is only textbook agriculture. Nothing is done outside the text. There are no observations, no original investigations, no experiments—only the facts of the text-books are given any consideration. The questions and answers of the book are followed with religious devotion. It is taught very much like geography has been treated for many years—memorizing the page and reciting it.

Agriculture should be made vital. There should be an application of the theories and principles studied in the school to the actual conditions as found in the farm home and on the farm. It may be selecting corn for show, determining the per cent of impurities in seeds or judging live stock.

Such work will cause patrons of the rural schools to see that these institutions have taken on new life and that they are worthy of a more loyal and more liberal support.

Whatever may be the indifference of a community concerning the country school, there will be an awakened interest when it is once seen that these schools are teaching things that are really worth while.

The lead which is thus being taken by Missouri and followed closely by Iowa should be an inspiration to every other grain-belt state. When properly taught, agriculture in the public schools includes not only a study of corn, soils and crops, but rural life and its betterment as well. The boy or the girl who has had a practical course in elementary agriculture in the rural school, under a progressive teacher who knows the subject, should be able to make a better, more sanitary, more artistic and altogether more soul-satisfying home. We do not know of anything which gives promise of better or more far-reaching results than this campaign of farm culture in the public schools.

FAVORS THE FORTY-SIX INCH WOVEN FENCE.

A Missouri subscriber, Mr. Joseph Stewart, in commenting on a recent Farm Furrow which favored the higher types of woven wire fence, has this to say:

I have acted as agent for an eastern wire fence company for several years, and have sold several cars of wire to my neighbors, and have figured closely on the cost of fencing, and I tell all my customers to buy the taller woven wire. The regular merchants sell a twenty-inch, six-bar wire at eighteen cents per rod and four-bar wires estimated at three cents per rod each makes the cost of the wire at the store thirty cents per rod.

I sell a ten-wire, forty-six inches high, at twenty-eight cents per rod at the car and make a good enough profit, and if it were not for the fact that horses reach over and ride it down, it would be a good enough fence for anybody. But most farms are well supplied with enough old barbed wire that a strand can be procured to stretch over the top of the forty-six-inch fence as a matter of protection to the woven fabric, and the farmer will have an ideal fence.

It is cruel to dumb brutes to put up wire with barbs on it like some stockmen put it up. And thousands of dollars' worth of value is lost to the farmers every year through stock getting injured on barbed wire.

The people of our part of the country had to quite raising Hambletonian horses because they were of a nervous disposition and were continually getting cut and scarred up on wire and when they got badly cut up there was no market for them, but with a Percheron, if he did get ruined on the wire, he would still sell to someobdy for a work horse, or at least that was the principal argument adduced to induce the farmers to breed Percheron horses.

Have you not noticed that the best milk cow is the one that gets her tits or udder ruined on the wire? And some one has a disagreeable job milking that cow to save her.

The forty-six-inch wire fence properly put up on good posts and with good, well-braced corner posts will make a fence that any farmer would be proud of.

I have very little calls for barbed wire, which is an indication to my mind that the farmers are getting away from it. But far too many farmers order the lower weave, eighteen, twenty and twenty-six-inch wire so they can use old barbed wire above it.

What this subscriber contends, namely, that there is an increased demand for the higher types of woven wire, we believe holds true throughout a considerable portion of the corn belt. The labor required to build fence is about the same in any case and the slight difference in the cost when the thirty-nine or forty-six-inch fence is used is not enough to justify the use of the lower fence.

We favor most strongly the use of one or two barb wires on top in all cases, otherwise the woven wire will soon become sagged out of shape. There is practically no risk to run whatever in using a tightly-stretched barb wire or two above a thirty-nine or forty-six-inch woven fence.

MILLET OR CANE FOR FODDER.

The meadow acreage is relatively light this year and many efforts will be made to supplement the hay supply by the use of such crops as millet or cane. The question comes up on the outset which of these crops will give the best results for general farm feeding, all things considered.

In pointing out just which is the better crop of the two we would first say that much depends upon the acreage that is to be devoted to these crops. If anywhere from five to ten acres are to be seeded to these crops we believe it will pay well to divide the area and sow part in millet and part in cane. Millet is usually seeded when grown for hay purposes at the rate of three pecks of seed per acre, while cane will give better results when seeded thickly say at the rate of from sixty to eighty pounds of seed per acre.

On rich ground or indeed on any kind of ground cane will outyield millet. In the case of soil that is well fertilized a yield of from fifteen to twenty tons of green fodder may sometimes be obtained and this will cure into from five to eight tons of good fodder.

Either of these crops may be seeded during the month of June with reasonable expectation of getting them harvested before frost. In the case of millet the crop should be cut very soon after it is well headed out and before the seed reaches the milk stage. If this crop gets too hard there is always a little danger in feeding it to horses, as it acts too freely on the kidneys, but if it is cut early and well cured it makes an excellent substitute for timothy, though it is not as rich as clover hay.

Cane or sorghum should be allowed to grow until the seed is quite hard because when that stage is reached the percentage of sugar in the stems is very large and hence it carries a maximum supply of food elements. Some swine breeders have had splendid results in the feeding of mature cane to brood sows during the winter months so that when a comparison is made between millet and cane this fact should be kept in mind. Either crop may be used advantageously in feeding cattle and horses.

FAITH IN THE VALUE OF ALFALFA.

It is not difficult to find instances where alfalfa fields have produced hay ranging in value from fifty to one hundred dollars per acre in a single year. Seven tons in four cuttings is by no means an uncommon yield and on this basis it is plainly apparent how the $100 mark can be reached.

Because of the high value of the crop when a perfect stand is secured one Iowa farmer has gone the limit in the matter of expense in preparing a twenty-five acre field for this crop. To begin with the soil was an overworked clay loam, corn having been grown continuously for many years. In 1912 this field was summer fallowed and treated to a coating of sixteen tons of farm yard manure to the acre. In addition to this 1,500 pounds per acre of ground rock phosphate was scattered over the surface with the manure spreader. The manure and phosphate were plowed under in the month of June and the land was double disked every ten days until the middle of August. Three and one-half tons of ground limestone per acre were spread upon this land in July and the field was seeded the middle of August at the rate of twenty-seven and one-half pounds of seed per acre.

As might be expected after so large an outlay for labor and fertility a perfect stand resulted and there is every indication that the first cutting from this field will yield approximately three tons per acre. The owner of this farm believes that under favorable weather conditions during 1913 he will be able to cut ten tons of cured hay from each acre or 250 tons from the twenty-five acres.

DESTROYING QUACK GRASS IN ONE SEASON.

A Missouri subscriber outlines a plan which he claims will destroy quack grass in a single season. His communication follows:

Here is a plan that will exterminate quack grass in one season: Stir your land that is infested with the grass in June, plowing it deep and following the stirring with the disk, cutting it and cross cutting it. This thorough working is essential, in order that the best possible seed bed be established. To smooth the bed, run the spike-tooth harrow over the field.

Sow the ground immediately to millet, putting the seed on very thick, so the growth will completely shade the quack grass when it comes on. The amount of seed to the acre, of course, will vary, according to the fertility of the soil, but as a rule, no less than a bushel (fifty pounds) should be used, and if the land is strong, considerably more can be safely put on.

The millet should be cut just before it is ripe. This gives one a roughage of excellent quality for winter feeding, and removes the quack grass. The ground should be restirred immediately, plowing an inch or so deeper than at the previous stirring, and seeded to buckwheat, which should be cut for a crop and removed from the field. Another deep stirring should be given the land, and the disk run over it a couple or three times before freezing weather.

By this plan, the millet and the quack grass secure a good start together, but the millet, growing more rapidly and vigorously than the quack grass, smothers out the latter growth. The second crop (buckwheat) acts as a check on the second start of the grass from the roots; while the third plowing throws up those deep-set roots for exposure to the freezing and thawing of winter. The subsequent disking keeps the soil in fine condition for very early spring seeding the following season, so that, in case any scattering quack grass still held root in the soil, the early cropping would hold it back and smother it out. This, with the extermination of the grass, securing of the two crops in a single season, and

the thorough working of the soil readily recommends the method to all.

We believe that if conditions are just right the happy outcome which is here predicted will result. However, as the result of considerable experience in handling this pest we have always preferred the plan of plowing in the fall, keeping the surface stirred from time to time during the spring and following this up by the sowing of millet some time during the latter part of June or the first week of July. Our theory is that the frequent surface stirrings tend to weaken the plants and the millet finishes the work of destruction by the smothering process. As it is too late this season to adopt this plan we recommend the method outlined above. If it does not wholly and completely destroy the plants it will at least materially weaken them so that the work of destruction may be finished next summer.

A WORD ABOUT CLOVER BLOAT.

A Nebraska subscriber, who has handled thousands of grazing cattle annually during the last ten or twelve years, gives the result of his experience in the prevention of clover bloat, in the following communication:

As this is the season of the year when cattle losses from clover and alfalfa bloat are the greatest, my experience along the line of prevention may be worth something to other of your readers. In the first place, I wish to say that the idea that cattle bloat from the first feed of clover or alfalfa is somewhat erroneous. Very few cattle that have had sufficient food will bloat when first turned on clover or alfalfa, but, on the other hand, the greatest loss is usually found after they have been grazing on such forage for a week or more. It is then that their digestive systems get out of tune and the condition of the paunch and nearly the entire digestive tract is such that they cannot properly digest and assimilate such watery and succulent materials. A cow that has a digestive system in perfect running order will graze on clovers the season through and never bloat at all, but the risk is that such feeds are not in themselves a proper grazing ration and will not hold up under the strain. Cattle will crave dry feed and in fact will eat old straw or hay that they would otherwise refuse, in their attempt to equalize things.

Our plan was to have some bluegrass pasture, preferably enough to graze the stock about half the time. We would then place all the cattle on the blue grass the first thing in the spring. After they had been on this pasture for a couple of weeks we would then turn them on the clover, leaving them there for not more than a week at first, and then back to the blue grass. These cattle rarely bloat at all and if they did it was during the last day of two that we had them on the clover. As the season advanced and the clover became more solid we left the cattle on for longer periods. After the red clover had ripened blossoms it rarely gave further trouble until the second growth got well started.

The worst weather for bloat is hot weather following copious rains, as it is then that the clover is growing the fastest. Our plan might be summarized as follows: Do not turn a hungy animal on clover or other green feeds when there is a probability that they will gorge themselves. Leave cattle on a clover pasture until signs of bloating appear, then remove for a week or ten days. If convenient furnish some dry hay or straw that they may run to, and if these precautions are observed very little loss will be experienced.

In case of an animal dangerously bloated the quickest way is to tap on the left side at the point of greatest distention. This should be about the center of the triangular space between the point of hip bone, the short ribs and the ribs proper. Use a trocar and cannula, or a knife, and do not be afraid of making an opening. A six-foot length of three-fourth-inch or one-half-inch rubber hose may be pushed down the throat to the paunch to let out the gas. If a hose is used it should first be oiled.

We would like to place special emphasis on one recommendation made by this subscriber, namely, that of not turning hungry animals into fresh legume pastures and allowing them to stay there for any length of time in the first instance. If they have a good morning meal of grass and they are turned in just after the dew has completely dried off there will be very little risk to run.

DESTROYING DODDER.

The Missouri Experiment Station has found as the result of analyzing a great many samples of alfalfa that as much as 28 per cent of these samples contain dodder while in the case of red clover seed 16 per cent of the samples carried a percentage of dodder.

Dodder grows in a peculiar way and instead of feeding upon the soil like other plants, it lives upon the juices of the legume. In appearance it is a "yellowish leafless vine." It entwines the legume plants and if it is not checked it will entirely destroy the crop.

The desruction of this pest means that a drastic measure must be applied, namely, the cutting of the infested portion of the field and the burning of the product when it has become dried out. It is suggested by Prof. J. C. Hackelman, of the Missouri station, that where the patches are small it will pay to scatter straw over the surface before burning in order to insure complete eradication. Special attention is called to the fact that the removal of infested hay from one part of the field to the other can only result in contaminating a larger area.

BEST BREED OF LIVE STOCK.

The time has not yet arrived when we can dispense with first-hand information acquired through practical experience in certain phases of farm affairs. The point that we have in mind is well illustrated by an inquiry from a subscriber who proposes to engage in the live-stock industry and asks for information concerning the best breed to handle. He does not even indicate whether he proposes to emphasize dairying or beef raising, but leaves the whole matter an open question to be determined by an outside party who knows nothing of the local conditions and has no knowledge whatever of the characteristics and instincts of the would-be stockman.

Under these conditions we have no information to give. The selection of a breed of live stock is a matter of individual taste which comes as the result of experience. To those who have had no experience, but are obliged to make a beginning on their own hook it may be said that starting into the business in this way simply means placing the cart before the horse.

Each breed of live stock has its own particular characteristics, these being the result of breeding operations carried on by talented men under widely varying conditions, each having his own specific object in mind. We have four great breeds of beef cattle and an even larger number of dairy breeds. In draft horses there are at least four types to choose from, in hogs at least six and in sheep an innumerable number. Even outlining the characteristics of the breeds would be almost useless labor because it would convey little that is new to the experienced man and nothing worth while to the man without experience.

The only advice that can be given when information of this kind is sought is simply this: that all the principal breeds of live stock are meritorious in their own special way and that those succeed best who first ascertain in which direction their own instincts lie and which breed best satisfies the love that is in the heart of every real stockman for the meritorious farm animal.

IOWA SWINE BREEDERS.

The annual summer meeting of the Iowa Swine Breeders' Association will take place at Ames, on Wednesday, June 18th. Secretary Hancher has prepared an excellent program which is herewith presented. The meetings will begin at 1 o'clock in the afternoon and there will also be an evening session. The program is as follows:

Forage Crops for Swine.—Prof. John M. Evard, Ames, Iowa.

How to Grow the Pig From Birth to Maturity.—J. B. Ashby, Audubon, Iowa.

Handling Private Sales.—H. S. Allen, Russell, Iowa.

Public Sales.—H. S. Duncan, Clearfield, Iowa.

Some Points to be Observed by the Breeders.—W. M. McFadden, Chicago, Ill.

What to do with the Kicker in the Show Ring and Elsewhere.—John R. Tupper, Woodbine, Iowa.

Methods for Controlling and Eradicating Hog Cholera in Iowa.—Dr. C. H. Stange, Ames, Iowa.

After each paper the opportunity will be given for general discussion of the subjects.

On Thursday, June 19th, the annual meeting of the National Association of Expert Swine Judges will take place and the usual scoring exercises and examinations for certificates will be made.

Ask your neighbor to subscribe for The Homestead.

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Come to Canada now and let us help you pick a choice farm before the best are taken. The Canadian Government is now distributing 135,000 FREE fertile farms along or near the **Canadian Northern Railway**—Wheat Farms, Poultry Farms, Dairy Farms, and farms adapted to cattle, hog, sheep and horse raising.

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Just glance over these low rates—tickets are first-class, round-trip, good for twenty-five days, with stop-over privilege. Excursions every first and third Tuesday, via Duluth and Ft. Frances, or via St. Paul and Winnipeg.

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Dauphin, Manitoba	$37.50	$24.15	$37.35	$42.05	$36.45	$17.35	$46.10	$33.15
Regina, Sask.	35.00	33.00	37.50	43.50	37.50	20.00	44.00	34.50
Saskatoon, Sask.	37.50	32.00	40.00	46.00	40.00	32.50	46.50	37.00
Prince Albert, Sask.	37.50	32.00	40.00	45.00	40.00	32.50	46.50	37.00
No. Battleford, Sask.	39.95	34.95	42.45	47.50	42.45	34.95	48.95	39.45
Edmonton, Alberta	46.50	39.50	45.50	47.50	46.50	27.00	50.50	46.50
Kindersley, Sask.	41.30	35.50	43.80	47.50	43.80	26.30	50.30	40.80

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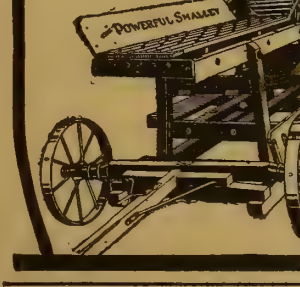

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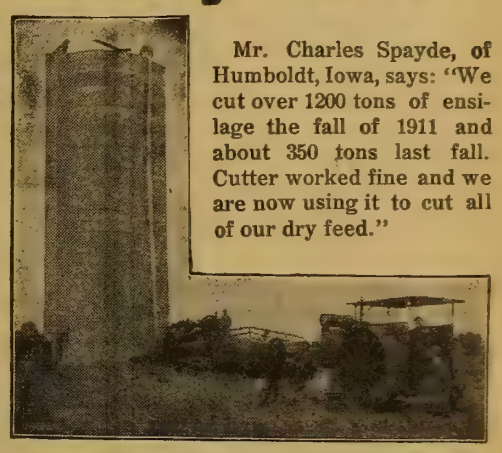

Mr. Charles Spayde, of Humboldt, Iowa, says: "We cut over 1200 tons of ensilage the fall of 1911 and about 350 tons last fall. Cutter worked fine and we are now using it to cut all of our dry feed."

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

When crossing corn, particularly if stalks have been plowed under, I like to wait until the fenders may be dispensed with. Like fly nets to a harness, fenders add double their weight to the handling of the gangs.

If you are riding in a swiftly moving vehicle, like an automobile, you can easily tell whether the road has been dragged or not. Dragging takes out all the "wrinkles."

It is now an admitted fact that every farmer ought to own a silo—and his wife ought to have a canning outfit to match the silo.

Trouble is one thing the farmer ought not to borrow nor lend.

Sprinkle some bran and corn chop on the calf's nose after it is through drinking its skim milk (only one-third corn chop, however). It soon gets a taste of feed in this way and thus will learn to eat.

The line fences should be closely looked into when one is purchasing a farm, or he may also be buying a lot of trouble with some adjoining farmer.

Wait till you are just ready to use your binding twine in the small-grain fields; then hustle off to town after it, when your dealer likely will be sold out. Or, if you are lucky enough to secure the twine, be sure that you will pay a good, stiff price for it, as there almost invariably is a shortage of harvesting material in country places at that particular season.

Our corn crop had its ups and downs at the same time this year, some going down by way of the planter and some coming up to take a look at the sun and breathe the fresh air. The work of getting the corn planted between the rains kept us all busy.

With so many crop killers standing around anxious to give each crop a bump, it is no wonder that we raise so many bumper crops. Perhaps it goes, bump, bumper, bumpest. Let us try to make this crop the bumpest crop we ever raised regardless of the bumps and bumpers.

Eight pigs is a good bunch for a young sow to raise. If there are any more in the litter it might be well to do a little pruning especially if there are any weak, runty ones among them. They will be pretty sure to be crowded out and die, anyway, and if taken away early it will give the others a better show.

Hog cholera is a disease that is dreaded by all hog raisers and having had a couple of sieges of this disease I don't feel like giving any advice as to a "cure." I believe that in this case an ounce of preventive is worth a ton of cure and that ounce is found in keeping their quarters as clean as possible and using a good disinfectant quite freely. A little lye with their slop occasionally will keep them free from worms, but a well hog seldom needs "doping" any more than a well man.

Put a good camera or kodak in the hands of the boys and girls. You will be surprised at the enjoyment and profit they will derive from it.

Our grandfathers used to put enough weight into buildings in large timbers to pull them down. Almost without exception the roofs on those old-time buildings would become sway-backed in a very short time. The rafter of years ago was larger than the sill of today. It is a fact, however, that some of the building done today is on a too slender order.

Any dairy cows that are not "coming out of the kinks" with the aid of this fine grazing ought to be marketed.

Sometimes the pigs will provide their own "creep" (under the fence), but what I call a "creep" is a feeding pen where the small pigs may go to and where the old hogs cannot. I provide such a place for every batch of pigs I have, beginning to feed them there when six to eight weeks of age. This special feed helps them along wonderfully.

It takes good cream to produce first-class butter.

Leave a nook somewhere about the farm for millet. It may be sown as late as June and July, and still will make a bountiful yield of first-class roughage. Some farmers do not fancy it, but we have found that, by cutting it just as it begins to fill, it makes an excellent feed for any and all live stock in winter.

Don't waste time and seed replanting corn. Replanted corn never amounts to much, even as fodder, and it never ears out well. It seems that the first planting shades it and holds its development in check. Then, the replanted corn tassels out later than the first planted, and this prevents proper pollenization of the crop, so that the late part of it is deficient in this respect. If one have less than a half or two-thirds of a stand of corn, it should either be left as it is, or the ground harrowed and all planted over.

More of us ought to use the land-roller for putting the soil in prime shape for cultivation, and to aid in the conservation of the available supply of moisture against a time when it may be sadly needed.

Try to arrange the pasture lots so one will be resting up and growing while the others are being pastured. It insures better grazing and permanency of a vigorous growth of grass.

Poultrying may be considered as a side line to farming, but it will not flourish under the usual neglect accorded it by most farmers.

There is no denying the fact that good roads can be built of stone or of concrete where the material is close at hand, but here there is nothing but earth to build with and that is good enough if we go at it in earnest. The best roads on earth can be built of earth at less expense than a road can be imported.

Twenty-six-inch woven wire is hardly high enough for hog fencing, unless it surrounds a large area. For lots and around small fields, where the natural tendency to jump becomes greater, a barb wire is needed along the top. In this case a light wire, such as comes eighty rods to the spool, does very well.

Already some of the weeds about the farm are shooting for seeding. Swat them while the iron is hot!

There is no use in trying to confine what is a large water course in flood time to a very small culvert. I have seen that tried too often, always with the result of having the grade cut through by the water that cannot get through the small opening. Many wrongly condemn the galvanized culvert because a size is used that is too small.

No-Rim-Cut Tires
10% Oversize

11% Less This Year

Rubber has dropped a little. And our factory cost, because of multiplied output, has dropped a little more. Our new factories are completed, and we've equipped them with the latest labor-saving machinery.

Now we have a capacity pretty close to 8,000 motor tires daily.

As a result, No-Rim-Cut tires are costing about 11 per cent less than last year.

What You Save

You save, by using these new-type tires, all the ruin of rim-cutting. And that is what wrecks 23 per cent of the old-type clincher tires.

You get extra capacity. No-Rim-Cut tires are 10 per cent larger than the same rated size in clinchers. And that oversize, under average conditions, adds 25 per cent to the tire mileage.

And now you save on price—11 per cent under what these tires cost last year.

No Extra Price

No standard tire of any type costs less than No-Rim-Cut tires today.

Hooked-base tires—tires which rim-cut—now cost the same as these new-type tires which don't.

Tires just rated size now cost as much as these oversize tires.

Consider how it pays to insist on these savings when they cost you nothing extra.

Their Records

No-Rim-Cut tires, when they cost more than clinchers, came to outsell all others.

The demand for these tires has doubled over and over. It has become the sensation of Tiredom.

More Goodyear tires were sold last year than in the previous 12 years put together. And car makers alone have contracted this year for 890,680 of them.

Now No-Rim-Cut tires cost no more than old-types, and our demand from users so far this year has jumped 85 per cent.

Just Be Fair

All we urge is fairness to yourself. Test the tires which, on countless cars, have shown the lowest cost per mile.

One glance will show that these tires can't rim-cut, that they are over rated size. Find out how this lowers tire bills.

Hundreds of thousands of men who have done that now use Goodyear tires.

Also be fair to us. For 14 years our experts have worked to lessen tire upkeep. And we are still spending $100,000 yearly on research and experiment.

Now comes this 11 per cent reduction. Doesn't this record, in your estimation, call for a test of these tires?

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CURRENT EVENTS

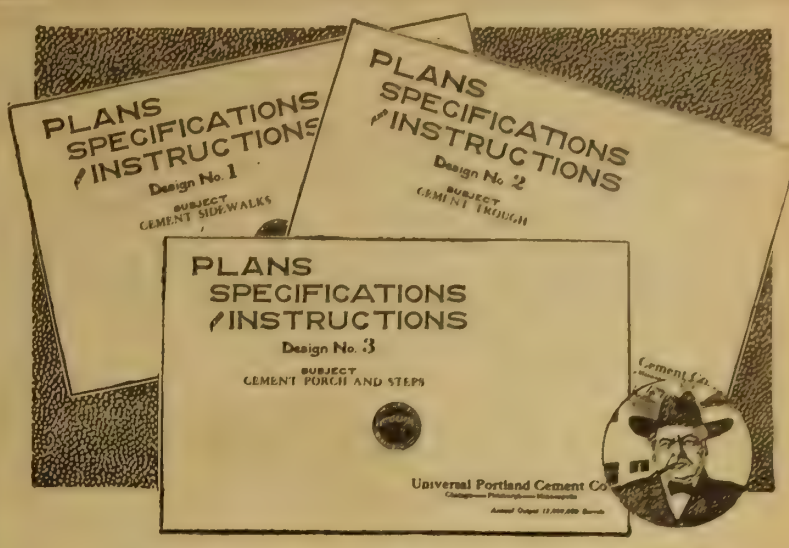
THE agricultural schedules of the Underwood tariff bill came in for considerable discussion in the senate and at the White House last week. The sub-committee of the senate finance committee to which the matter was referred (consisting of Williams, of Mississippi; Shively, of Indiana, and Gore, of Oklahoma,) decided that raw materials and their manufactured products should bear an equal duty and agreed upon the following schedule: fresh meats (beef, mutton and pork) to carry a duty of 10 per cent ad valorem; cattle, sheep and hogs to be left as they are in the original bill, dutiable at 10 per cent ad valorem; wheat flour to be restored to the dutiable list at the specific rate of forty-five cents a barrel, with other wheat products dutiable at 10 per cent ad valorem, oatmeal 5 per cent ad valorem; wheat to stand a duty of ten cents a bushel and the duty on oats to be reduced from ten cents to six cents per bushel. The effect of this change would be to take meats and flour, the manufactured products, off the free list and make them stand a duty similar to that which their raw materials stand. No sooner had this been decided upon, however, than President Wilson let it be known that he had views to the contrary. The president informed Senator Simmons, chairman of the finance committee, that he desired the duty taken off practically all agricultural products, admitting cattle and meats, grain and flour (including oatmeal) altogether free of duty. It is announced that a poll of the finance committee has been taken and that the president will be sustained on this, as he has been already on free wool and free sugar.

NINE foreign nations have responded favorably to Secretary Bryan's proposal for a world-wide peace pact which will go further than anything before attempted to make war impossible. These nations are Italy, Great Britain, France, Japan, Brazil, Sweden, Norway, Peru and Russia. They have asked for more particulars of the plan and evinced a desire to continue negotiations along the lines suggested. The plan is one which Secretary Bryan proposed to an international peace conference in London more than five years ago and now has an opportunity, because of his cabinet position, to officially promulgate, with President Wilson's sanction. In brief, the plan is that all the contracting nations agree to submit all disputes, "of every character and nature," to an international commission, the contracting nations agreeing not to declare war or begin hostilities until such an investigation is made and report submitted. The nations do not agree to accept the finding of the international commission, but they do agree to wait until a report is made, which means that a year or a year and a half must elapse before hostilities can begin, giving ample time for the anger of the moment to subside and for cooler counsel to find a way out of the threatened difficulty. It is simply an international acceptance of the adage on a big scale: "When angry count ten, when very angry count 100." While negotiations along this line are being carried on, the United States is going ahead to make new peace treaties with various powers, having negotiated new treaties, since President Wilson came into office, with France, Italy, Spain and Great Britain. The new administration is thus allying itself with the world-wide peace forces and bringing that much nearer the millennial day when war shall have completely disappeared from the face of the earth.

THEODORE ROOSEVELT was splendidly vindicated in his libel suit against the Michigan editor who charged that he frequently became drunk. Not only did Colonel Roosevelt testify upon the stand that he never drinks beer, never uses whisky except in small doses upon doctors' orders, never drinks anything except light wines in moderation and was never drunk in all his life, but a score of nationally notable men corroborated him in every detail. When the Roosevelt testimony was completed the Michigan editor took the witness stand and read a public statement in which he frankly admitted that "I have been unable to find in any section of the country any individual willing to state that he has personally seen Mr. Roosevelt drink to excess," and also stated, "I am forced to the conclusion that I was mistaken." The defendant, having thus made a complete retraction, threw himself upon the mercy of the court, which announced that it would sustain a verdict for the entire amount asked by Roosevelt, $10,000. Before this could be done, however, Colonel Roosevelt made a statement in which he declared that he had not gone into the suit from any vindictive motive, but simply to defend his good name, wishing "once and for all during my lifetime to deal with these slanders so that never again will it be possible for any man in good faith to repeat them." He stated that he would be perfectly satisfied with nominal damages, which, under the Michigan law, are six cents. The jury thereupon returned him a verdict for this amount. The two principals agreed to pay their own costs, $2,000 for the defendant editor and about $10,000 for Colonel Roosevelt. The trial occupied a week and was unique in American history. It sets at rest, for all time, the reflections made upon Roosevelt's character and personal habits and shows him to be temperate and abstemious in his tastes and life.

A RATHER desultory investigation is being made by the senate of the charges preferred by President Wilson that an "insidious lobby" is at work in Washington, standing between the people and the bills intended to give them legislative relief. A committee has been appointed to hear the testimony of their fellow senators, eleven questions being put to each member of the senate in the attempt to find out if any are financially interested in businesses which would be benefited by any changes proposed in the Underwood tariff bill. No disclosures of particular importance have thus far been made, most of the senators contenting themselves with a more or less casual listing of their property and a denial of having been approached by any one whom they would call a "lobbyist." Practically every senator admitted that he had talked to or been written by "interested parties," who tried to convince him by argument that certain things in the tariff bill would work an injustice to their business, but each senator maintained that this was not lobbying, but was entirely permissible. It is probable that President Wilson will go more into details and explain what he meant when he declared that a more pernicious and insidious lobby is at work in Washington now than for many years past. Even if he does not do this, however, his charges will have some good results, disclosing the financial investments of the senators and stopping the activities of the lobbyists for the time being, anyway.

Missouri's Chief Josephine, the cow which, two years ago, broke the world's record for milk production for one year, has been killed in the interest of veterinary science. This famous cow was valued at $5,000. Just why certain cows have come forward as great milk producers, has never been definitely learned and the sacrifice of Josephine was decreed in an effort to settle this question, if possible, by a pathological examination of her interior department. While Josephine was under test as the world's greatest milk heifer she produced 29,860 pounds of milk in one year. She gave an average of twelve gallons a day for the first six months.



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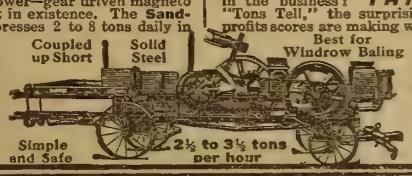

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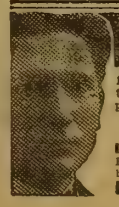

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EXCLUSIVELY.
EGGS FOR HATCHING
LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City.
Henry G. Walker - Iowa City, Iowa

RHODE ISLAND REDS
SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

R. C. RHODE ISLAND REDS
THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

FARM range R. C. R. I. R. exclusively. Eggs hatching fine. All fowls healthy. 48 fine pullets and hens in our pens now in farm range flock. We will sell eggs at the low price of $4 per 100 or $2 per 45. Summer and fall chickens cheapest and easiest to raise. Order from a healthy and vigorous flock. J. B. Heisel, Grinnell, Iowa.

$3.00 for 50 EGGS
FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

Eggs for Hatching R. C. Reds exclusively, farm range $3.75 for 100, $1.87 for 45, 75c for 15. Satisfaction guaranteed. Address BEN F. BENTLEY, R. 2, Boone, Iowa.

EGGS FOR HATCHING at half price. Rose Comb Rhode Island Reds exclusively. A few breeding birds for sale. F. N. BLAKE, Maquoketa, Iowa.

EGGS from high-class R. C. R. I. Reds 75c per 15, or $3 per 100 for remainder of season. Address Mrs. Jno. Holmgren, Rolfe, Iowa.

S. C. R. I. Red eggs from a heavy-laying strain at 75 cents per 15; $4.00 per 100. Orders filled quickly. Address M. E. Edwards, Route 2, Walnut, Ia.

S. C. R. I. Red Eggs from bred-to-lay strains, pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa.

S. C. R. I. Red baby chicks at $15 per 100 express prepaid. Also eggs for hatching at $1, $2 and $3 per 15. Mrs. E. P. Gaddis, R. 3, Griswold, Iowa.

S. C. R. I. Red eggs from high-scoring farm range. Eggs are hatching fine. Carefully packed, $1.20 for 30; $3 per 100. Mrs. H. A. Stallman, Oskaloosa, Ia.

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address **Mrs. Charles Belz, Conrad, Iowa.**

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30.
C. H. North, R. D. 2, New Hartford, Iowa.

REDUCED prices on R. C. R. I. R. eggs. Pen 1 ckls score 93 1-4, 75c, 15; Pen 2, 50c, 15; $2.50, $4 per 100. Miss Maggie Henning, Ira, Ia.

S. C. R. I. RED bargains. 50 yearling hens at $1.50 to make room. Eggs, $3 per 100. L. G. Johnson, Box H, Steamboat Rock, Iowa.

REDUCED prices on S. C. R. I. R. eggs from high scoring stock 75c per 15; $2.50 per 50. Baby Chicks. W. I. Price, Ira, Iowa.

R. C. R. I. Red eggs from choice range flock. $3.50 per 100 after May 1st, shipped from De Soto. Address Mrs. T. J. Link, R. 2, Winterset, Ia.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

S. C. R. I. RED EGGS Exclusively. $1 per 15, $1.75 per 30, $5 per 100. Address **George Hunt, Earlville, Iowa**

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

BRAHMAS.

LIGHT Brahmas exclusively for many years, fine. large, thrifty birds, farm range. Eggs, 13, 85c; 26 $1.50; 100, $4.50. G. H. Schaller, Earlville, Iowa

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA EGGS; $1 for 15; $2.50 for 45; $5 for 100, Address Frank A. John, Bedford, Iowa.

LANGSHANS.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 50c; 26, $1.00; 100, $3.00. W. W. Baskerville, Earlville, Iowa

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

ANDALUSIANS.

EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. **A. J. Arends, Blairsburg, Ia**

When writing to advertisers please mention The Homestead.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

BALANCED RATION NECESSARY FOR EGGS.

To the Editor of The Homestead:

There is more money to the square inch in the production of eggs for market than any other one branch of the whole poultry industry.

Everyone is interested in how to get the most eggs possible from their flock, and at the least expense. Prof. A. G. Phillips, head of the poultry section of the Indiana Experiment Station at Lafayette, in his enthusiastic talk at the short course, at Urbana, Illinois, gave the most practical ways and means, that are wholly adaptable to the farmer, that we have ever heard.

Mr. Phillips uses vitality and proper housing as a basis for success in any branch of poultry culture.

He then produced a chart headed, "A Good Hen vs. an Average Hen. What Do Your Hens Produce?" At the Purdue station, hen 13 was fed fifty-eight pounds of feed costing eighty-seven cents and produced 197 eggs during the year; these were worth $4.27, showing a profit of $3.40. The average hen in Indiana with the cost of feed unknown, produced eighty-seven eggs per year worth $1.26. According to these figures it is very evident that the farmer needs to look after the business of disposing of his eggs as well as to produce them.

This paper has always urged the use of lean meat to furnish protein for laying hens. A hen may be full of yolks and if she has nothing with which to make the white of the eggs she may abort the yolks into the intestines where they are reabsorbed.

A flock of hens at the station were fed corn, wheat, oats, bran and shorts; one section was given skim milk in addition, another section meat scraps, and a third section received no meat or milk to supply the protein. The results of this year's test in the three sections are compared in this table:

	Skim Milk	Meat Scraps	No Meat Food
Av. grain consumer..	50.7	55.1	48.6
Av. cost of feed.....	98c	87c	66c
Av. No. eggs laid....	124	125	24
Av. cost per dozen....	9c	8c	35c
Per cent fertility....	93.7	91.1	90.2

The table shows that the hens getting the protein in their feed laid 124 and 125 eggs a year, and that the hens having grain only, laid twenty-four eggs, or one-fifth as many as the ones properly fed. We have a similar illustration of this on this farm: through the months when there is a goodly supply of animal food in the form of bugs and other insects we get the "full flush of laying." Before this period, and after, the egg supply drops.

After paying for the skim milk or meat scrap the hens having this balanced food produced eggs at nine cents and eight cents per dozen, while the purely grain-fed hens charged thirty-five cents a dozen for the eggs they laid. This is surely conclusive as regards the meat and skim milk question.

Meat scrap, in this case at least, does not mean scraps from the butcher, but a product of the packing house which has been superheated with steam; it is a special poultry food including meat, bone and blood meal; this is not green bone, however, nor scraps of meat.

This test was made last year and it gave the same results in profits, but the hens rightly fed laid more eggs—145.

Numbers of questions have come to this paper in regard to tankage or green cut bone as a substitute for meat scraps and skim milk. When asked about this, Professor Phillips said that the time and strength required to turn the cutter is considerable, that hens are greedy and if they get more than one-half ounce of it they will get sick, if it is bought of the butcher and contains tainted meat, it may cause ptomaine poisoning or cause limber-neck; while green bone is good, it is not to be recommended for wholesale use.

The general laying ration consists of ten pounds corn, ten pounds wheat and five pounds oats for the grain;

LEGHORNS.

ROSE COMB BROWN LEGHORNS
EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9.
R. R. STEWART, R. 2, Charles City, Iowa.

SINGLE COMB BROWN LEGHORNS LOW JUNE PRICES.
PEN 1—75c for 15; $1.25 for 30; $1.35 for 50; $2.50 for 100. Range flock, 65 for 15; $1 for 30; $1.25 for 50; $2 for 100.
EARL BLOOM - Bridgewater, Iowa.

MORRILLVILLE POULTRY FARM
ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

S. C. W. Leghorn Eggs for hatching, 5c each. Will prepay express on all lots over 50. Baby chicks 10c ea. White Feather Poultry Farm, H. L. Darby, Prop., Hazleton, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

SINGLE COMB WHITE LEGHORNS Eggs reduced to $3.50 per 100 during remainder of egg season. Mrs. Wilson McIntyre, Red Oak, Ia.

ROSE COMB BROWN LEGHORNS. Pure-bred eggs at $3 for 105 this month. Address Mrs. Laura Mather, Clarksville, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

PLYMOUTH ROCKS.

EGGS FOR HATCHING
BARRED P. Rocks exclusively for 30 years. Yards headed by cocks and cockerels scoring 92 to 92½ points. Descendants from first-prize winners. Cocks and cockerels weighing 10 to 13½ pounds, hens and pullets weighing 8 to 11 pounds. Deep, straight blue barring. We won 37 prizes at our last showings. Eggs $1.25 per 15, $2.00 per 30. Prompt shipments and eggs guaranteed fertile. M. HUMMEL, Monroe, Iowa.

BARRED PLYMOUTH ROCK EGGS AT HALF PRICE.
FOR the remainder of June I will sell eggs at half price. Pen 1, $1.50 for 15; $2.50 for 30; $3.75 for 50. Range flock in proportion.
EARL BLOOM - - Bridgewater, Iowa.

BARRED PLYMOUTH ROCKS
EGGS for hatching from prize-winning stock and excellent laying strains, both matings—now at half price—$1.50 per 15; baby chicks 25c. each.
MRS. L. C. REESE - - Prescott, Iowa

Barred P. Rock Eggs for Sale
FROM extra large boned stock, yards headed with cocks and ckls. weighing 11 to 13½ lbs., scoring 90 to 92¾; in 7 showings we won 38 1sts, 9 2ds, 5 3d, 2 4ths. 15 eggs $1.50; 30, $2.50; eggs guaranteed strong fertility. **J. W. Wagner, Monroe, Iowa**

Barred P. Rock Eggs and Baby Chicks
HAWKINS, Thompson and Bradley strains. From high-scoring, good laying stock, heavy bone, deep, narrow barring. 15 eggs, $1.25; 30, $2.25; 100, $5.50; 200, $10. Mrs. Elsie Noble. R. 2, New Boston, Ill.

WHITE PLYMOUTH ROCKS
EGGS $1 per 15; $2 per 30; $2.50 per 50. Birds have been winners at largest shows. Order direct from this advertisement.
CHAS. L. BERRY, Iowa City, Iowa.

BUFF ROCKS
Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

W. P. Rock Eggs for Hatching from high-scoring stock, $1 per setting. Order now. Moncrief Bros., Center Jct., Ia.

Cut Rates White Rocks, White View Farm, Fishel strain. Eggs, $1 per 30, $1.50 per 50, $3 per 100. Mrs. C. E. Pugh, Menlo, Ia.

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15. Breeder Poland Chins. Jas. H. Duncan, Lineville, Iowa.

QUALITY Barred Rock eggs from high-scoring stock; farm range; satisfaction guaranteed; 15, $1; 45, $2.50; 100, $4.50. E. S. Hardin, Knoxville Ia.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

FARM RAISED scored or unscored Barred P. R. cockerels for sale at reasonable prices. Mrs. Madison Spencer, Audubon, Iowa.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

BABY CHICKS.

CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. **20th Century Hatchery,** Chatfield, O.

R. C. B. LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. **George E. Banton, Epworth, Iowa.**

DUCKS.

White Runner Duck Eggs
NOW $1.50 per 12. Orders filled promptly. Our Breeder for sale, plenty of time to hatch ducks yet. Send in your order. Address
Rahn & Son, Box 144, Clarinda, Iowa.

PEKIN DUCKS and Rose Comb White Wyandottes. Our ducks are from very high-scoring 11-pound drakes and 9-pound dams. You can't do better. Eggs 13 for $2, 30 for $4, 100 for $10. Eggs from our excellent flock of Wyandottes, 15 for $1.50, 50 for $3.50, 100 for $6, John M. Hall, Williams, Iowa.

Eggs From Champion Rouen Ducks
12 FIRST in 4 years in Chicago. Also prize winner Buff Rocks; White Malines. Send for circular of winnings. Mention Homestead. Address **Henry Schehl & Sons,** R. 2, Prophetstown, Ill.

Indian Runner Duck Eggs for hatching. Excellent layers, $1 per 15, $2.50 per 50. Address Herbert N. Jenny, R. 2, Clarksville, Iowa.

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels. Oakland, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

DOGS.

SCOTTISH TERRIERS
THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. Harr, Riverside, Iowa.

SCOTCH COLLIES
HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

SCOTCH COLLIE PUPS 5 months old, sable and white, pedigreed, ready for work, four males and one female. $10 each. H. J. ROMPF - R. 1 - Marion, Iowa

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

SCOTCH collie pups, over two months old. Parents are first-class workers and watch dogs. Males $8; females $6. F. Bollman, Wall Lake, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

MISCELLANEOUS.

Dripps Has Fine Poultry
WHITE ROCKS Fishel strain. Eggs from show birds 13, $5.
BARRED ROCKS Eggs from Dripp's finely bred show birds. $1 per 13; $5 per 100.
WHITE LEGHORNS Eggs from Dripp's finely bred snow white show birds of best laying strains, $1 per 13; $5 per 100. Send me your order, mentioning The Iowa Homestead. Address
JOHN I. DRIPPS, Springville, Iowa.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS—Barred Rocks, Bronze Turkey—EGGS
BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

$1 PER 15, $5 per 100 eggs. Barred W. Buff Rocks. R. I. Reds, W. Wydts., B. Langs., Lt. Brahmas buff and white Orps., Leghorns, Toulouse geese, $1.75 per 10; white guineas, $1.50 per 12, bronze and white turkeys, $2 per 7. Monroe Poultry Yards, Monroe, Ia.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males scoring to 93 1-2. $1.75 per 50; $3 per 100. Indian Runner duck eggs, $1 per 15. Mrs. Will Michael, Selma, Iowa.

EGGS, B. and W. Langshans, S. E. Buff Orps., Lt. Brahmas, R. C. R. I. Reds, $1.50 per 15; $5 per 100. Mrs. S. E. Newell, R. D. 6, Audubon, Iowa.

EGGS for hatching, S. S. Hamburgs, S.C. Anconas, Prt. Wydts, S.C. Buff Leghorns, I.R. ducks 1t. F. and W. $1 setting after May 15. E.E. Calvert, Shell Rock, Ia.

B. LANGSHANS, I. R. DUCKS High-scoring stock. Eggs, 75c per 25, $4 per 110. Satisfaction guaranteed. B. A. Randell, Mt. Zion, Ia.

S. C. R. I. Red eggs from great laying strain, good color, 15, $1; 50, $3; 100, $5. F. W. I. R. ducks from prize-winning stock, 15, $1.25. J.E. Lewis, Brayton, Ia.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS
SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

PRATTS **To Kill Lice and Mites** PRATTS
on fowls and in the houses, use
PRATTS POWDERED LICE KILLER
25c and 50c per package
and PRATTS LIQUID LICE KILLER
35c quart; $1 gallon
Each the best of its kind
"Your money back if it fails"
160-page poultry book 10c by mail
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LICE KILLER Liceoil, strongest lice killing compound made. Works like magic. Simply put a few drops in nests and hang bottle in coop. Powerful evaporating vapors go into feathers, cracks and crevices. No painting, spraying or dusting. Easy to use. Circular free. Pound bottle prepaid 50c. Money back if it fails. Agents wanted W. H. Metzger Co., No. 79, Quincy, Ill.

BINDER TWINE
FACTORY TO FARM. WANT FARMER AGTS
Write quick. AUGUST POST, Moulton, Ia

WYANDOTTES.

White Wyandottes. A few eggs yet at $3.75 per 100. No more chicks as our entire output is booked. In order to make room for our young stock we will now sell a large number of one and two-year-old hens and cock birds to be delivered after June 15 at $10 a trio or $15 a pen and to all those who book their order for either a trio or pen before June 25 we will give one extra female free. $2.00 will book you. White Wing Poultry Farm, C 294, Perry, Iowa.

Silver Laced Wyandottes I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

WHITE WYANDOTTE EGGS $1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2, unscored, $15 doz. ETHEL H. SHAW, Route 6, Newton, Iowa.

WHITE Wyandotte eggs for hatching from pure-bred, high-scoring birds, pure white and of excellent quality; won 1st prize wherever shown. Eggs $1.50 for 15, $5 for 100. R.S.Tennyson, Clarksville, Ia.

SILVER Wyandotte eggs, Tarbox strain, scored, setting $1.25; range $4.50 per 100. Order if you want something good. SARAH LOWE, Clarksville, Ia.

White Wing Poultry Yards Milo, Ia. White Wyandottes only. Eggs, $1 per 15; $2.50 per 50. W. H. Ilsley, Milo, Ia.

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please; $5 per 100; $1.50 for 15. Mrs. F. O. Elliott, Kent, Iowa

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

PARTRIDGE Wyandotte eggs for hatching at $3 per 100. Breeding stock for sale at reasonable prices. Address Thos L. Morlan, Indianola, Iowa.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices, R. B. Rowe, Indianola, Ia.

FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

WHITE WYANDOTTES EXCLUSIVELY
EGGS from stock scoring 94 to 96, $1.50 to $3.00 per 15; $6 per 100. Geo. W. Livingston, Monroe, Ia.

ORPINGTONS.

WHITE ORPINGTONS A few eggs yet at $3.75 per 100. No more chicks as our entire output is booked. In order to make room for our young stock we will now sell a large number of one and two-year-old hens and cock birds to be delivered after June 15 at $10 a trio or $15 a pen and to all those who book their order for either a trio or pen before June 25 we will give one extra female free. $2.00 will book you. White Wing Poultry Farm, C 294, Perry, Iowa.

RARE BARGAIN IN WHITE ORPINGTON EGGS EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address F. Fortmann, Box 23, Dyersville, Iowa.

S. C. Buff Orpingtons exclusively. Eggs from high-scoring special matings, $1.50 for 15; utility flock $1 per 15. Stock for sale. V. H. Conner, Shell Rock, Iowa.

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241 EGG strain S. C. Buff Orp. eggs. World's champion layers. Cook strain direct. $6 per 100. Circular free. W. L. Bardsley, Neola, Iowa.

KELLERSTRASS WHITES From a $100 pen. Also Owen Farm Buffs. Eggs $5 per 100. Orpington Farms, Big Rock, Ill.

EGGS from S. C. Buff Orpingtons. 15 $1; 100, $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

for the dry mash, five pounds bran, five pounds shorts, three and a half pounds meat scraps, or the meat may be substituted by sixty-two pounds skim milk. The grain is scattered in deep litter and the mash is fed dry in hoppers. This is a very simple ration, and available on nearly every farm. I have fed practically the same feed to my breeding stock and with the best of results.

As to feeding tankage, Mr. Phillips gives practically the same answer that was in these columns some time since, namely, tankage is beneficial, but is not clean and does not contain the amount of bone.

These rations should be fed so that twenty-five pounds of grain will be consumed in the same time that thirteen and a half pounds of the dry mash.

For green feed in winter, sprouted oats is named first in the list, and silage is voted all right. Steamed clover and alfalfa are foods, but should not be confused with succulent foods—they are not. Another practical point of this lecture is the fact that the corn is recommended to be cut down one-half in summer. If the hens run with the hogs at feeding time they get too much corn, but this may, in a measure, be remedied by keeping them away long enough to eat the dry mash. Minnie G. Stearns.

SUMMER NESTS.

To the Editor of The Homestead:

When some of the hens steal away from the poultry yard at this season to build a nest where it may never be discovered, it is usually the case that there is something wrong with the nests provided for their use, although it must be admitted that some hens never lose the instinct originally given them by nature to secrete their nests in a patch of weeds or grass, no matter how comfortable the nests provided for them by their owner. However, the majority of the hens of a domesticated flock will use the nests in the poultry building or yard if they are comfortable, but when nests, especially those in the building and house, are dirty and infested with numerous insect pests, some of the hens are bound to seek laying places elsewhere. So one cannot make the nests too inviting, or go after lice too vigorously, or keep the building too clean, if it is not desired that many eggs be deposited where they may never be found.

When the hens go on the nests to lay on a warm day, the temperature under them will be very high. This furnishes an ideal condition for lice to multiply. During the summer season nests should be examined once a week at least, and if dirty or lousy they ought to be cleaned at once. Burn the old contents of the boxes and put in fresh material. In order to avoid broken eggs, an abundance of nesting material must be kept in the boxes in summer as well as in winter. In order to facilitate the cleaning of building and nests, the latter should be so arranged that they can easily be removed for cleaning and disinfecting. If they are nailed fast to the walls of the building, the work of cleaning probably will be neglected.

At this season we always like to provide a great many nests for the hens, a large number being placed around the poultry yard and in the orchard. Barrels make good outside nests when laid on their sides so they cannot roll about. Small boxes are also put under the chicken coops which are not being used and many of the hens make use of these. Though most of the layers will not desert the nests in the building if everything is kept clean and the building is kept darkened during the daytime, outside nests are cooler and more inviting at this season and from these we gather the largest number of eggs. The work of keeping the building clean is simplified somewhat when all the layers do not loaf inside every morning until they have the opportunity to go on a nest. W. F. Purdue.

WHITE DIARRHOEA.

Dear Sir: I see reports of so many losing their little chicks with bowel troubles, so I thought I would tell my experience. I used to lose a great many of my little chicks from this cause, tried a good many remedies and was about discouraged with the chicken business. Two years ago they began to die and I thought I would try Walker's Walko Remedy. I used two 50c packages, raised 300 White Wyandotte chickens and never lost one or had one sick after getting the medicine. Readers can get it by sending 50c (M.O.) to the Walker Remedy Co., U. 8, Lamoni, Iowa. I wouldn't try to raise incubator chicks without it.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.—Adv.

POINTERS.

—Earl Bloom, Bridgewater, Iowa, is making a 50 per cent cut in prices of Single Comb Brown Leghorn eggs for the remainder of the month of June. See advertisement on page 10.

—Farmers who want to get a good start with Barred Plymouth Rocks are now presented with an opportunity to do so at a very low cost through the advertisement of Earl Bloom, Bridgewater, Iowa, in which he offers eggs for hatching during the remainder of June at one-half his regular prices.

—Mrs. L. C. Reese, Prescott, Iowa, is making special prices on eggs and baby chicks on page 10. She has one of the very best flocks of Bradley Bros. strains in the West, and all of the cockerels and the hens in her flock are tested birds. If you want something choice in the Plymouth Rock line send Mrs. Reese your order at once.

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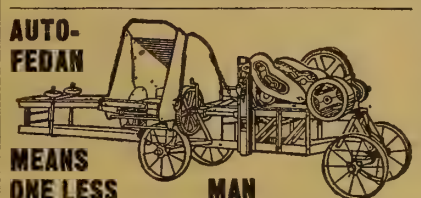

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AT $1.25 PER BUSHEL
FREIGHT PAID to any point in Iowa. Bags extra at 22c each. Bags hold about 2½ bushels each.
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BEES Your own honey. Send today for free catalog of Bee Supplies and sample copy of the American Bee Journal, oldest bee paper in America and indispensable to the bee keeper. Dadant & Sons, Box C, Hamilton, Illinois.

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ROBERT C. LEWIS,
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FINE spring bargain for thirty days only. 160 acres, well improved; under a high state of cultivation; black soil; every acre farmed; good neighborhood. Price $80 for quick sale. Will be worth $100 this fall. Only twenty-four miles from the Iowa line. Strictly in the Corn and Clover Belt. Corn yielded one hundred bushels per acre last year in this county. No trade. Write for particulars and also for bargains in other farms. Have large list. Address DRAWER C, SLAYTON, MINN.

FARMERS WANTED—In Minnesota where big crops are produced. Homes for thousands. Improved farms for corn, small grains and live stock. Dairy farms with pure water, clover, timothy and alfalfa. Maps and literature telling all about Minnesota sent free upon application to Fred D. Sherman, Commissioner Immigration, Room 209, State Capitol, St. Paul, Minnesota.

160 ACRES 5½ miles of Solomon, Kansas, good, dark, loam soil, 50 acres native pasture, 6 acres alfalfa, 8 acres meadow. Lies fine. Five-room house, barn, 8 horses, shed attached for 8 cows. All fenced. Fair orchard. Plenty of good water. A big snap at $9,000. Terms on part. Write for list of bargains. Address Beeghley & Miller - - Solomon, Kansas

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WANTED Good tenants for good farms well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.

FARM LAND FOR SALE
ALL or any part of 1766 a. rich Morton Co., N. D. land. Imp. and rented, good bldgs, tractor, separator, etc. Average price $26 per a. Owner H. F. Molkenbur, 337 Forest St., St. Paul, Minn.

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WRITE for list improved and unimproved corn and wheat lands, Stanley county, South Dakota; price $10 to $20 an acre. Agents wanted. Jay P. Morrill, Palace Bldg., Minneapolis, Minn.

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address Hall's Farm Agency, Owego, Tioga Co., New York.

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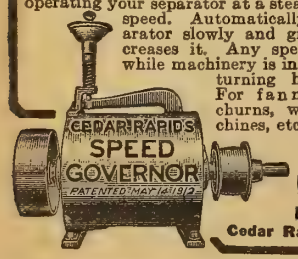

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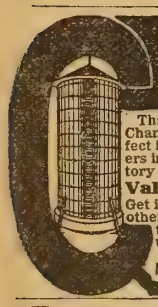

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DAIRY

WOMEN ON DAIRY FARMS.

To the Editor of The Homestead:

With the growth and development of dairying the work on the farm and with the stock has become more and more of a man job. On some of the largest and best organized dairy farms all the work is done by men—the milking, the separating, the washing, the bottling, and even the cooking. However, it is not with reference to professional dairy farms that this is written. Rather it is hoped to reach the reader with whom a few dairy cows are kept in connection with other farm activities.

The writer in traveling about finds a wide variation in the attitude of women toward the dairy. One genial lady on a farm which he has visited often finds peculiar delight in being with the cows. She is city raised and city trained, never having lived on a farm until she married. At first she could not distinguish one Jersey from another. Then she began to note differences in horn or other features. Finally, she knew every one perfectly and had an affectionate regard for each. When a new barn was built and it was necessary to train the cows to go to the new stalls the lady was out every time to direct the cows to their proper places. She was perfectly happy in that. She knew the cows better than the boys and succeeded in putting them into their proper places. She now declares that she would not leave those Jerseys and return to the city for any consideration.

On another farm near the one just mentioned is one where about forty cows are kept. There is a family of three or four grown daughters, who with the small boys do the milking. There the young ladies take delight in the work. Notwithstanding, they are cultured and genteel in their home. Two or three have been students at the state college.

Why should ladies from the city and others who have had the opportunity of a college education love cows and delight to be among them? What makes the work they do at the barn a recreation and a pleasure instead of a drudgery? Undoubtedly, one of the fundamental reasons in both cases mentioned, as well as in many others, is that the conditions surrounding their work are pleasant. The barns on both places are clean, sanitary and well lighted. The cows are high grade on one place and pure bred on the other. There seems to be an instinct in all normal women to seek some outdoor life. Further, it is perfectly natural for them to seek some pleasurable activity. The small amount of work they do takes them away from their regular daily tasks and forms a really pleasurable recreation.

Women have a sympathetic nature which gives them a peculiar understanding of the cow. A woman on the farm needs to have an intelligent understanding of her husband's business. Through helping somewhat with the work she can gain that understanding. Once having that knowledge she is an able assistant and counselor in the business.

The development of creameries, cheese factories, condenseries, etc., has removed much that formerly was hard work for the woman. She no longer has large, heavy cans of milk to handle, and lift in or out of a cooling tank. It is not necessary for her to churn large batches of butter and deliver it to the grocery store and barter it for household necessities. In short, there has been a certain relief and release of hard work for women on the dairy farm.

Woman's instinct for cleanliness and order makes her exceedingly valuable in an advisory way about the farm. Nowadays, cleanliness counts for so much. Not all women are content to give up the old way. Frequently one is found who makes a high grade of family butter. No product finds a more ready sale and more genuinely appreciated welcome in the city home than first-class farm butter made by some lady who is known to be neat and clean in all her work. Many families are willing to pay extra for such butter.

The selling of raw milk or cream to a jobber creamery has had another decided effect upon the woman of the farm. Formerly in many cases the expenses of the household had to be met by the exchange of butter and eggs. Now in the best-managed households the weekly or monthly checks are added to the bank account and the household expenses are met on a regular allowance as they should be. Unfortunately, in far too many families this new order has not yet become established. Sometimes actually the cream checks have gone to the bank and nothing done to reimburse the lady for the amount which she formerly received for butter. Almost universally, however, the farm dairy is being separated from the household. This is as it should be. The dairy is a part of the business of the farm and should be conducted as such. Woman, to a large extent, has been relieved of the drudgery. She may help if she has time and inclination, and as she finds pleasure and recreation from it, but it is no longer her manifest

The Duroc Jersey boar shown in the accompanying illustration is Severns' Crimson Critic. He is a son of Crimson Critic, the boar shown and used by Briggs Bros., Seward, Neb. The boar shown herewith was one of the largest and best produced in the country a year ago. He is also the sire of nearly all of the spring pigs owned by Mr. Severns this year. He will probably be shown at the Nebraska State Fair this season, and if properly conditioned will make a splendid showing. Mr. Severns has a few bred sows for sale. Address, mentioning The Homestead, Wm. Severns, Tamora, Neb.

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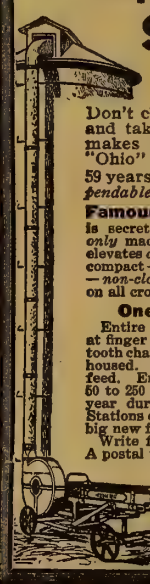

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There are some cattle that give more milk when they are fresh than a Jersey, but there isn't any breed that gives as rich milk as

The Jersey

at as small feeding cost, nor is there any breed of cattle that will *keep it up* like Jerseys will, *year in and year out.* That's why you ought to buy Jerseys to increase your herd's efficiency. Send for Jersey facts.

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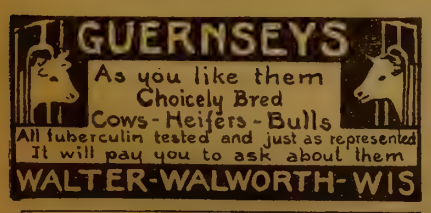

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duty to do the milking, care for the milk and feed the calves.

The fabled dairymaid has passed into history and tradition. All recent practical operations where it has been attempted to hire girls to do the milking have failed. In Buffalo county, Nebraska, it was tried but did not succeed. In Utah several hundred cows were assembled near one of the towns and girls were hired as milkers. All went lovely so long as the dairymaids in their white caps and aprons carrying their shining pails were some distance from the cows. When milking was attempted there was trouble. The range cows were accustomed only to the manipulations of the calf and objected strongly to having human divinity do the milking. After vain attempts the cows went back to the range and the dairymaids returned to the ordinary paths of life. Truly dairying now belongs to the men of the farm.

H. E. McCartney.

MARKETING CONFERENCE REPORT READY.

The report of the first conference on marketing and farm credits held in Chicago, April 8th, 9th, and 10th, is now ready for distribution. It contains in full all the addresses presented at this remarkable meeting, and a complete stenographic report of the discussions. A complete list of the accredited delegates is included for reference.

Without doubt, this is a most comprehensive presentation of the important problems connected with the marketing and distribution of farm crops, and the institution of farm credit system. The best thought of the leaders in all educational and industrial lines is set forth in a most interesting way. The book should be in the hands of every producer and every consumer and every reference library in the United States and Canada. Without doubt the program presented at this conference was the most thoughtful, and most carefully considered in the history of similar gatherings. The best-informed and the brightest men in the country were in attendance and took an active part in the discussions.

These proceedings will be a splendid help to everyone interested, and who is not? Copy can be secured by sending $1 to the secretary of the first conference on marketing and farm credits, 1408 Steger Bldg., Chicago. Every farmer, every grower, market gardener, live stock raiser, in fact, everyone should inform themselves on these important topics, for they must be met and to be forewarned is to be forearmed. The experience of co-operators, the things to avoid, the things to do, are all set forth in this book. Order a copy at once and study it carefully. It will save you hundreds of dollars and enable you to take part in formulating some system of co-operative effort particularly adapted to your own lines of work.

IOWA DRAINAGE REPORT.

The report of the 1913 annual meeting of the Iowa State Drainage Association has been issued by Prof. W. H. Stevenson, Ames, Iowa, secretary of the association.

The report is an exceedingly interesting and valuable illustrated pamphlet of 100 pages, and will be sent to any address for twenty-five cents.

This report contains many papers and addresses of great importance and value to everyone who is interested in the drainage of farm lands. Every landowner, engineer, and tile manufacturer should read the reports of the standing committees of the association. Many landowners and drainage men will also be interested in the following addresses and discussions: "Co-operation in Land Drainage," "Ditching Machines and Implements;" "Outlet Protection of Drain Tile of Various Sizes;" "Roads and Drainage;" "Inspection of Drainage Improvements;" "Tile Curves," and "Specifications for the Laying of Drain Tile."

This report contains in full the tentative standard specifications for drain tile, sewer pipe and pipe laying which were prepared by Dean A. Marston, of the engineering division of Iowa State College.

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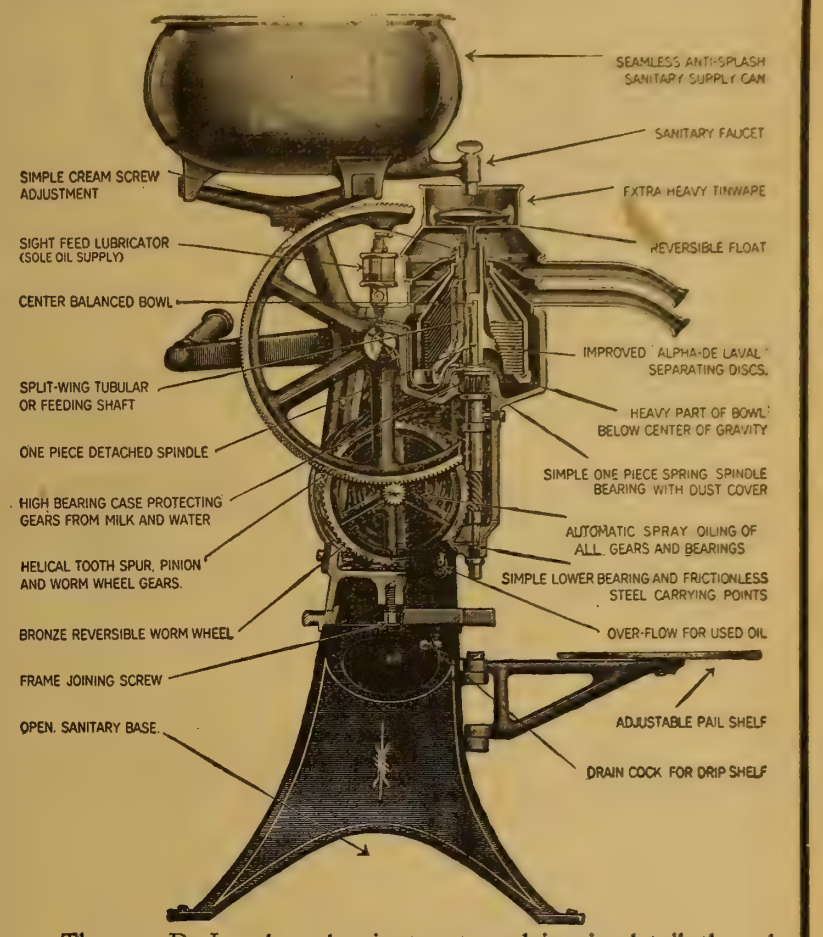

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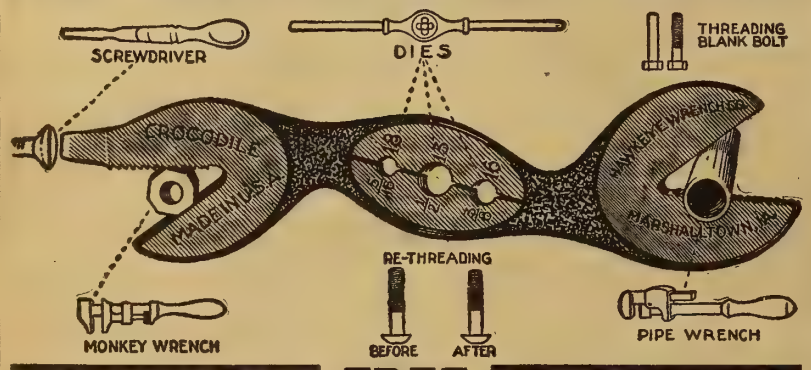

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This wrench is drop forged from the finest tool steel, scientifically tempered. Every Wrench is Guaranteed. It has six handy tools in one—pipe wrench, nut wrench, screw driver and three dies for cleaning up and re-threading rusted and worn out threads. Dies fit all standard farm machinery. It requires no adjustment, never slips, and is simple and always ready for use.

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Send me only $1 for one year's subscription to The Iowa Homestead and I will mail you one of these crocodile wrenches free of charge by parcel post. **This offer is good only till July 1.** Use the coupon below and mail all orders to

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

When two young people are in love with each other to the extent that they are pledged to marriage, it is well for them to face the future from many points of view. To specify one—there should be a thorough understanding as to the financial arrangements under which the firm about to be incorporated is to be carried on. Lovers should take time from the romantic business of lovering to consider the prosaic business of probable resources and their disposition.

When a man is courting a girl he is apt to think little of what is to follow in case he is fortunate enough to win her. The woman, if she love her lover, feels that it will be a joy to meet his wishes, and sacrifices her preferences after they are married. After marriage, to both alike, naturally and inevitably, comes the realization that they are individuals as well as comrades and partners and that as individuals they must face the money question.

If a couple can bring common sense, a disposition to play fair and a mutual desire for the happiness and comfort of the other to bear upon the pocketbook question the danger of friction upon other matters will be reduced to a minimum. And the time to discuss it is before and not after the marriage ceremony.

Let the prospective husband tell his betrothed frankly what his resources are; let the prospective wife frankly tell her betrothed what she expects as his business partner; let them quietly and sanely arrange for the financing of the home they are to make—and know that they are safeguarding themselves against storms which have shipwrecked many a craft which set out with sails flying.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Be yourself today, regardless of what happened yesterday. Be all that you are or can be today if you would create most nobly for the future.

Begin a course in serenity during your off hours. In the first place, don't undertake too much. To be always "catching up" with things that should have been attended to hours earlier is fatal to peace. Especially during the hot weather you must guard against this; you must determine just how much you can do and refuse to undertake more. It is humanly impossible to be in two places at once or to do two things at once. Don't try.

Good, better, best!
Never let it rest
Till your good is better.
And your better best.

TO GET RID OF FLIES.

It is a crime not to have screens or at least mosquito netting at all doors and windows, but in spite of these some flies will get in. Have nothing about to attract them; keep all food carefully covered. Leave no slops standing except in closely closed cans, which should be often scalded out and disinfected. To clear a room of flies close doors and windows and sift a good strong insect powder, such as is used for poultry, on window sills and everywhere. Leave the room for an hour or more, then sweep up the dead flies and burn.

Or, darken the room, by drawing all the shades, leaving only a bit of sunlight at one window. The flies will go to that light and may be "swatted" with a dust cloth or a newspaper folded into a flat paddle.

A very old medical journal gives the following advice: "Put a little oil of bay in a saucer and set it on the window sill, or paint the window sill with varnish, paint or hard oil in which oil of bay has been mixed. No flies will stay in the room." A dram, or ten cents' worth of oil of bay in half a cup of hard oil is about the right proportion.

EGG WAYS.

Baked Eggs, Madrid Style.—Make a cup of thick tomato sauce, or chop the canned or stewed tomato fine without straining it, seasoning it with onion juice, salt and pepper. Mix with this a couple of link sausages that have been cooked and chopped into small pieces; pour the mixture into a dish and break upon it as many eggs as the space will allow without crowding; set in the oven and cook until the whites of the eggs are firm.

Baked Eggs With Ham.—Add a teaspoonful of onion juice to a cupful of finely chopped ham; beat six eggs light, stir the ham into them, season with a little pepper—no more salt will be needed than is supplied by the ham—a tablespoonful of minced parsley, and turn the mixture into a frying pan in which is a tablespoonful of melted butter. You can either stir the mixture as you would for scrambled eggs until the eggs thicken, or you may cook it as you would an omelet, loosening it from the bottom with an omelet knife and folding it when done. In either way it is very good.

Eggs With Corn.—For this you may use either the fresh corn, boiling it and cutting it from the cob, or the canned corn, turning it from the tin a couple of hours before it is to be used. Separate the whites and yolks of five eggs and beat the latter a few minutes, the whites until stiff. Put the corn with the yolks, season to taste with pepper and salt, then stir in the whites lightly and cook in a shallow saucepan for five minutes or until the mixture thickens. If you prefer you can cook in an omelet pan and serve with or without folding.

AMONG OURSELVES.

Many times have I been asked to furnish topics for discussion at the meeting of some of the farm women's clubs to which in increasingly large numbers our readers now belong.

While there are some topics that are perhaps more especially feminine than others, yet in these meetings it is well to get away from such lines of thought. So I have been recommending that our friends watch the editorial pages of our papers. There they will find discussed the livest topics of the day; the sifted information that furnishes a firm foundation. You will find it well worth while to take up almost any one of these articles, read it aloud, and then discuss it.

In a recent number, you may have noticed topics: The Pure Shoe Law, Purity of Water in Farm Wells, The Geographical Center, and others which were well worthy of note and informative.

It is not merely the reading, but rather the quiet, gentle, open-minded talking over such subjects that will give us the ability to rightly hold our own in the political life that is more and more largely opening up to women.

Rights and duties and duties and rights: these agitate society in the city, on the farm, everywhere. One of our farm women has this to say on a subject that comes up with great insistence:

I think that women are often themselves to be blamed for outdoor work being required of them. When a girl is married and goes to live on a farm, she is usually well and strong, with all her furnishings new and in order, and with sewing all done for months ahead. She has leisure, is anxious to help and takes up as many outdoor duties as she can. It soon becomes a matter of course for her to do this work, and it is considered a part of her duties. Another year, she has more work to do for the house, considerable sewing and perhaps a little one who needs all her time, but she is expected to keep up her outdoor work also. Now, if she had said at first, "Just now I have no sewing to do, and can help you," and had spoken often of the fact that next year she should be unable to do it, and that some other person must then do the work—that it was not, properly, in her line of duties—very few men would be disappointed when she dropped the outdoor work. In any case she should refuse, firmly, but pleasantly, to continue doing it. I believe in husbands and wives helping each other in sickness or in unexpected emergencies. The men of my family have often done all the housework when I was ill or wished to go away, and I have often done all the outdoor work, even to sawing wood, when the men were ill or suddenly obliged to go away and no help could be procured, but in both cases it was considered a favor and was never continued when the occasion had passed. A woman owes it to herself and her family that she shall not work beyond her strength, or for so many hours that she shall not have time for recreation and reading.

Now, I have the pleasure of introducing to you two of our women who are developing into story tellers. Mrs. Margaret Ainsley will tell you

BROWNIE No. 3

You can make good pictures with a Brownie Camera.

Made by Kodak workmen in the Kodak factories, the Brownies are efficient, durable, practical. Made on the Kodak plan, they are simple.

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On Time We sell monuments, tombstones and markers direct from the quarries, at a very large discount from usual prices. Over 200 styles to select from. We sell on monthly payments, allowing long time to pay. All lettering done by experts. Our guarantee is backed by $7,000,000 capital.

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SPIEGEL, MAY, STERN CO.
3672 Wall St., Chicago, Ill.

how Mrs. Brown "used her head to save her heels," as the saying is:

"Why, Mrs. Brown, have you gotten your clothes ready to hang out so soon? And how do you happen to have two shirts and three pairs of everyday socks for your husband in one washing, and that many stockings for yourself? Your washing is larger than mine and yet you have finished sooner than I could."

"Oh, good morning, Mrs. Day. Why, I have this many shirts, socks and stockings because we wore them. You know the oftener one changes clothing the easier they are to wash and the less strength one has to expend rubbing the most soiled places by hand. Consequently, they do not wear out so quickly, because much rubbing of clothing is very wearing on them. We have provided several changes of clothing for ourselves so that we can change often." "I never had thought of that. You must have other ways of saving time and strength, too, for you seem to do your work easily and not feel tired all the time." "I do. See my dishes through the window? Ever dry yours that way? Have two old sheets folded twice. Wash the dishes in soapy water, put in a deep pan of hot water, then place on the sheet to drain. Usually, every drop of water evaporates and I don't have to touch them with a towel. Of course the glassware and silverware must always be wiped. Here are some of my holders. I sew a little ring in one corner to hang them up by. It is more convenient than a loop. The rings cost only two cents a dozen. You notice I have rugs instead of carpets. They are so much less work, no tacking down, pulling up, or stretching. By the way isn't the last magazine we subscribed for a splendid number?" "I haven't opened it yet." "You don't mean to say you've read it already?" "Yes. When one member of our family finishes his meal several minutes before the rest he reads aloud. We accomplish so much reading in that way and then we get to talk it over with each other, too. That is about the only time we have for reading aloud in the summer." "Well, Mrs. Brown, you have cheered and encouraged me wonderfully. I must go now. I'm anxious to put some of your suggestions into practice. Run over and see me soon." "Yes, I will."

And through the pen of Mrs. F. C. Bright we make the acquaintance of a housekeeper who is wise in her day and generation:

Not long ago a neighbor lady dropped in on an errand and we sat visiting as women will do. The time passed very quickly and I was not aware that supper time was at hand. I happened to look out and saw the men coming from the field, the sight brought me to realize that it was fifteen minutes to six. I insisted upon Mrs. B. staying to supper and asked to be excused for a few minutes. At exactly six o'clock I announced supper, everything was in order and the family seated themselves to the following supper: potato salad, cold ham, rolls and butter, cookies, wafers, radishes, pickles, canned peaches, iced coffee. Not a bad supper for a hot day and on fifteen minutes' notice? After the men had finished and gone to do the evening chores, Mrs. B. and I sat chatting and eating wafers and sipping the iced coffee. We were discussing the effect of the reciprocity bill upon the price of eggs, etc., when all of a sudden Mrs. B. remarked, "What a lovely cool dining room you have. We all nearly melt every night at supper time. I do not mind it at noon, but at supper time I get so heated I cannot eat a bite and enjoy it." And then for the first time she saw that I had no fire. "How on earth did you make salad and coffee and no fire?" "Oh, I replied, I just did that along as I had time and it came handy. The salad dressing I made several days ago, and the coffee I made at breakfast. I made the pot full on purpose so as to have it for supper, the same as I do with my tea when I make that for dinner. So I always have either cold tea or coffee ready for supper when it is a very hot day, but when it is a little cooler I always have a warm supper. When we have finished breakfast I turn the the remaining coffee and cream in this large water pitcher, sweeten it and, presto! part of my supper is ready. All I had to do was to set it in the ice box and when I brought it to the table put a piece of ice in the pitcher. And my salad, well, there was a dish of cold potatoes and a little sack of onions right handy and a cup of salad dressing, so it was but a very few minutes' work to have a nice salad ready. And the can of peaches I brought from the cellar when I got potatoes for dinner. The radishes I gathered when I went to the garden to get lettuce for dinner, washed them the same time and put them on the ice to crisp. And to set my table I lifted the spread (a flour sack nicely bleached and hemstitched). My centerpieces, also plates, glasses, knives, forks and spoons were all there. My pickles I always keep on the table in an old-fashioned covered sugar bowl filled with vinegar." "Well, I declare," said Mrs. B. "You make everything so easy. I should have to spend the whole afternoon to do what you did in fifteen minutes, then be so tired I could not visit at all. And you use a nice, plain, white oilcloth to eat on! I never thought of getting the white ones, but I do hate a dark oil cloth." "I do too," I replied, "but I can spend my time to better advantage than to stand and iron table cloths, where there are farm hands and children." Mrs. B.'s visit now had to end. We had enjoyed ourselves every minute and realized that the "unexpected guest" had been a real pleasure, and that our little chat had been of benefit to us both.

And so may more of us do! It is a matter of using the things we have in a different, and it is to be hoped, more effective way—a way in which by wise forethought, we have that precious article, time, at our disposal for the betterment of ourselves, our home folks, and our neighbors.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

FIX UP THE HOME.

(First prize.)

Have you ever taken notice when traveling through the country on the railroad or going out for a pleasure drive some Sunday, of things that are generally distasteful to your eye? In most cases it is trifling things that could be put in good-looking order with very little effort on the part of the owner.

It may be that you see a house or barn that has cost hundreds of dollars to build, and just for the sake of saving a few dollars it has been called finished without the paint just because it will serve the purpose without it. Such a building cannot be called unsightly, but it really does not look good, and it does not give a person a very good impression; and most of all it goes to show that the owner does not take a great deal of pride in it, and it was built to gain the almighty dollar instead of being a comfort and a pride to the owner as well as to the community. You might say that it contains all of the modern conveniences and would not be any better with the paint, but if we have the right spirit we will not look into this matter for mere dollars and cents, but should be willing to sacrifice in order to make things pleasing and inviting to the eye of the public as well as to ourselves.

The same thing can be applied to many other things, such as fences, wood lots, pastures, fields, etc., that are allowed to go along in a happy-go-lucky way because it will serve the purpose as well without being trimmed up a little along the edges.

I think the same thing should apply to our farms and homes as applies to us personally. What would you think of a man that did not get his hair cut more than twice each year or a shave about once a month, and went to church on Sundays in his working clothes? He serves the purpose as a man all right, but what kind of a man? He surely does not think very much of himself. There is no reason why we should not be as particular about our farm home and surroundings as we are about our dress and personality.

I do not believe in using the old farm as a mere tool to grind out the dollars, when really it is the only place on earth we can call "home, sweet home." At least it is the place where we are to spend the greatest part of our lives here on earth, and if we are to enjoy life and get the most of happiness and pleasure out of it, we must try to make our surroundings pleasant; not only that, but help and do a good turn to our neighbors when we are given the opportunity. I do not mean that we all can enjoy luxuries and have things fixed up O. K., but the humblest can have things inviting and be of good use to humanity if he chooses.

—Christ S. Hansen.

Program and Social.

(Second prize.)

I will attempt to tell how we raised money to secure an organ for our school. As we were the only school in this town that had no organ we thought it was high time we were getting busy and be in the same standing as the others. We prepared a "Perry Program" consisting of twenty-four numbers, relating to Perry's victory on Lake Erie. The program lasted for one hour and thirty minutes. After the program we had our "Avoirdupois Social." Each lady brought with her a basket in which she had a lunch for two; also a card with her name on it. The baskets were placed on the table. Each gentleman wishing a basket selected it, opened it, read the name, and then found the owner. He then weighed the lady owning the basket, and paid one half cent per pound for every pound she weighed. Of course, the heavy women brought

$15 for this genuine Victrola that will play for you any record in the Victor catalog.

Go to any store where you see the famous Victor trademark and hear your favorite music on this Victrola.

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a good income. As there were quite a number of baskets, the income was not very small. The net amount was twenty dollars. Those that did not get baskets purchased lunch at ten cents a plate. There were about eighty-one people there and all had a good time. —Long Pete.

A Liberty Lover.
(Third prize.)

I have been wanting to give my opinion for a long while. I think the subject of ambitions a most interesting one. My ambition is to have a pretty home all by my lonesome and be a harmless old maid, who wouldn't hurt anything. Lily said some time ago that it was her highest ambition to be a good wife and mother, and Aunt Mary approved, but I think aunt Mary must either be an old maid, or have a good husband, which is a very rare thing indeed! (The good husband, I mean.) I, myself have no ambition that way. I say with Patrick Henry, "Give me liberty or give me death," and what married girl can have liberty?

I think it would be good for all boys to have to live the life of a girl for just one year; yes, one year would cure them of their—well, you might say their habits, for it may be be just a habit that makes them so thoughtless and selfish.

Now, honestly, how do you like my opinion? —A Future Old Maid.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 11, Gen. 47; 1-12. June 15, 1913.

JACOB BEFORE PHARAOH.

Filial piety and brotherly love shine in the character of Joseph with greater brilliancy than any jewels that studded his rich regalia as viceroy of Egypt. Even if he had not rendered his great humanitarian service to famishing nations and won a place in the select company of the world's prime ministers, these lovely personal traits would save him from oblivion. For Joseph's blood was always thicker than water. It mattered not that his brothers had been envious and cruel. He forgave and loved them. He used all the arts he had learned in statecraft to reform them, crowding back his natural feelings. He kept incognito, that no mixed motives should dominate them. He used various devices to remind them of their guilt and lead them to repentance. When thoroughly satisfied they were really new men, he revealed his identity, and that, too, without any "I am greater than thou" manner, but with such a cataract of affection as fairly swept them off their feet and waked the echoes of his palace. What is more, he acknowledged them before king and court. Clad in robes of state decked with insignia, he took these rustic, sun-burnt, barefooted shepherds by the hand and led them up to Pharaoh's jeweled throne and acknowledged them as his own brothers. He scorned the curling lips of envious courtiers when his own lowly origin was then revealed. He faced them with dauntless courage when he saw their racial prejudice against shepherds kindling. He obtained for them the reservation of the fattest pasture-land that even Egypt could boast. Right royally did Joseph act the brother's part. Affecting as the meeting between the brothers was, that between father and son was even more so. After two decades of separation they fly into each other's arms: the father, who had kept the blood-stained coat as token of a son believed to have long since perished; the son, who through tribulations deep had climbed unaided and by his own intrinsic merit to glory and a commanding position of world-wide power. And Joseph no more hesitated to present his father to court than his brothers. The patriarch in the presence of Pharaoh makes a scene for poet and painter. Jacob's words to Pharaoh are an elegy. Well may he call his life a pilgrimage. Gerar, Padanaram, Succoth, Bethlehem, Beersheba, Egypt, are only a few of the milestones. His days also were comparatively few, for his grandfather had lived forty-five years and his father fifty years longer than himself. His life, too, had been checkered with "evil." He has suffered the ills inseparable from duplicity, had robbed his brother and thus exiled himself. The deceptions he had practiced on others had been his own bitter fate. Cursed with profligate sons and robbed of one pre-eminently virtuous, and, to end it all, now famine stricken—that word "evil" surely sums his whole life.

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Sell the Barnett Sanitary Vacuum Cleaner. Fully guaranteed. Every woman wants one. Best proposition ever offered.

Make $10 to $15 Daily

Write today for prices and circulars.

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THIS WHIP IS FREE

to those who answer this advertisement during the month of June. This offer will positively be withdrawn July 1st. We only have a limited supply and cannot insure delivery after that date.

My Unsurpassed Offer.

Send me only $1 for one year's subscription to The Iowa Homestead and I will send you this rawhide filled buggy whip, postpaid, free of charge by parcel post. Address all orders to

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Send me $1 for one year's subscription to The Iowa Homestead. I will mail you one of these whips. If it is not as described, return the whip and I will refund your money.

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THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6098 Ladies' Empire Kimono.—This charming negligee garment is an entirely new design and one that is sure to appeal to the woman of refined taste in matters of apparel. It is simple to make and may have long or short sleeves. Cashmere, crepe, soisette, silk or wash fabrics may be used for its development.

The pattern 6098 is cut in sizes 34, 38 and 42 inches bust measure. Medium size requires 3⅞ yards of 36-inch material and ½ yard of 27-inch contrasting material. Price of pattern ten cents.

6124 Ladies' Skirt.—This design gives us a four-gored model, with panel front and back and small plaits at the lower part of each panel. The waist finish may be high or normal as preferred. This style is one which will be pretty in serge or linen.

The pattern 6124 is cut in sizes 22 to 30 inches waist measure. Medium size requires 5 yards of 36-inch material. Price of pattern ten cents.

6103 Misses' Dress.—This charming and youthful frock shows several of fashion's latest features. It is a simple, but altogether delightful model and one suitable for dressy wear or for general service. The dress has the conventional front closing and three-gored skirt. The sleeves may be long or short.

The pattern 6103 is cut in sizes 14, 16 and 18 years. Medium size requires 4⅞ yards of 36-inch material. Price of patter ten cents.

6173 Misses' Blouse Waist.—We have in this design the new Balkan blouse which is so very becoming to young girls and to slender women as well. It may be made plain in middy style or the fulness may be gathered into a hip band, this being the latest manner.

The pattern 6173 is cut in sizes 14, 16 and 18 years. Medium size requires 2¾ yards of 36-inch material. Price of pattern ten cents.

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Made of 1 5-8 high carbon steel tubing all No. 9 galvanized wire mesh, special hinges, self-locking latch, raises at either end, absolutely hog tight, bull proof and wear proof. Strongest, best looking and longest wearing gate in the world.

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You take no chances. We ship the gates. We let you try them, test them, compare them with any other at any price. If they are not the best ship them back at our expense.

Sold Direct from Factory at Factory Prices.

You save middleman's profit. That's why they cost less than others; that's why more Trojan gates are sold than all others. Investigate.

Write for Catalog and Full Particulars of Our Introductory Free Gate Offer.

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Don't take chances with spavin, splint, curb, ringbone, bony growths, swellings or *any* form of lameness. Use the *old reliable* remedy—

KENDALL'S Spavin Cure

Its power is testified to by thousands of users. At druggists $1 a bottle; 6 for $5. Ask your druggist for book, "Treatise on the Horse." Write

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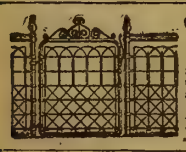

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Big Doll For You

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Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.

902 Popular Bldg., Des Moines, Iowa

NEWS OF THE SALE RING

Stanton's Short-horn Sale.

One of the most successful sales of recent years was made at Sittyton Grove Farm, Wheaton, Ill., June 2d, by Thomas Stanton, when forty-six head of Short-horns were sold for $25,605, making the excellent average of $556. The recent purchase by Mr. Stanton of the entire herd of George J. Sayer, McHenry, Ill., gave him an oversupply of Short-horns and he selected the tops of the Sayer including all the show cattle to which he added a number of the best things in his own herd, and offered them to the public. The attendance was large and included not only many representative Short-horn men, but also many new men, a number of whom were buyers and the cattle were widely distributed, going to Iowa, Illinois, Wisconsin, Minnesota, Missouri, Indiana, Ohio, Virginia, Ontario and Manitoba. The top of the sale was $2,000, paid by James Yuille, Winnipeg, Manitoba, for the three-year-old bull, Browndale Sultan, by Avondale, the contending bidders being Robert R. Ward, Benton, Ill., and A. G. Stevenson, Port Huron, Mich. Mr. Ward later bought Roan Sultan, the good son of Glenbrook Sultan, for $1,050. The top of the females was $1,980, paid by Anoka Farms, Waukesha, Wis., for the undefeated two-year-old heifer, 78th Duchess of Gloster, the contending bidders being James Yuille and Mr. Yuille paid $1,760 for the yearling show heifer, Sittyton Lady 2d, by Glenbrook Sultan, and he also took the winning show cow Imp. Fair Start 2d, with a roan bull calf at foot by Roan Sultan, for $1,675. The richly bred Rosewood cow, Autumn Rose, went to C. J. McMaster, Altona, Ill., for $1,400. The sale list tells an interesting story, and shows the demand for good cattle. Eliminating all the show cattle and the report of the sale is the story of a very successful event with an average of $459. In addition to Mr. Stanton's cattle two bulls were consigned by Smith & Heissever, Oran, Mo., which were sold at satisfactory prices, but do not appear in the report or figure in the summary. Mr. Stanton conducted the sale in his usual satisfactory manner. Col. Carey M. Jones did the selling and did a most excellent day's work. He was ably assisted by Colonels Reppert and Cottingham. The following is a detailed report:

FEMALES.

78th Duchess of Gloster, calved 1911; Anoka Farms, Waukesha, Wis.	$1,980
Sittyton Lady 2d, calved 1912; James Yuille, Winnipeg, Manitoba	1,760
Imp. Fair Start 2d, calved 1907, and b. c.; James Yuille	1,675
Autumn Rose, calved 1907, and c. c.; C. J. McMaster, Altona, Ill.	1,400
Susan Cumberland, calved 1908; Ralph Leach, Minneapolis, Minn.	900
Lovely Roan 2d, calved 1904, and c. c.; James Brown, Chicago, Ill.	270
Golden Princess, calved 1907, and b. c.; Chas. Giller, Whitehall, Ill.	410
Moss Ross, calved 1906, and c. c., F. J. Bogan, Glen Ellyn, Ill.	250
Clara Countess, calved 1908; Anoka Farms	250
Jilt Princess, calved 1907, and b. c.; F. J. Bogan	225
Cinderella, calved 1907; W. W. Washburn, Crawfordsville, Ind.	215
Gloster Sultana, calved 1907, and b. c.; J. J. Williams & Son, Grand View, Iowa	700
Missie of Huntleywood 3d, calved 1908; George B. Miller, Canton, Ill.	360
Rosemary 104th, calved 1908; W. W. Washburn	330
Cumberland's Boquet, calved 1908; C. J. McMaster	400
Marchioness 19th, calved 1908; Anoka Farms	705
Queen Mildred, calved 1910; Mitchell Bros., Burlington, Ont.	710
Sittyton Anna, calved 1911; Farmer Farm, Farmington, Minn.	705
Sittyton Mary Ann, calved 1913; James Brown	325
Belmar Augusta, calved 1907, and c. c.; J. J. Williams & Son	700
Augusta 115th, calved 1909, and c. c.; Smith & Heissever, Oran, Mo.	725
Maxwalton Augusta 3d, calved 1911; Carpenter & Ross, Mansfield, Ohio	425
Augustian's Pearl, calved 1905; F. J. Bogan	225
Blairgowrie's Augusta, calved 1910; J. O. Blakelee, Rapatee Ill.	375
Sittyton Augusta 2d, calved 1911; J. O. Blakeslee	300
Victoria Lady, calved 1905; J. H. Warren, Delaplane, Va.	200
Sayer's Georgia, calved 1910; Carpenter & Ross	400
Flora Marshal, calved 1909; J. H. Warren	330
Imp. Village Maiden 2d, calved 1909; Robt. Failon, Neponset, Ill.	350
Aveone 14th, calved 1908, and c. c.; F. J. Bogan	220
Lavender Princess 4th, calved 1908, and c. c.; Robt. R. Ward, Benton, Ill.	250
Sittyton Fashion, calved 1910; W. W. Washburn	250
Fancy Sultana, calved 1910; Jas. Neville, Canton, Ill.	600
Emma 51st, calved 1910; E. E. Spence, Chillicothe, Ohio	310
Lady Margaret, calved 1909, and b. c.; J. H. Warren	310
Missie C., calved 1907; Farmer Farm	450
Princess Royal 9th, calved 1909; W. W. Washburn	245
Cinderella 2d, calved 1910; W. W. Washburn	220
Cumberland's Wimple, calved	

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E. Myers, President, E. Myers Lye Company

If an epidemic of hog cholera should break out in **your** neighborhood, what assurance have **you** that it wouldn't attack **your** hogs? How are **you** fixed to prevent that dread disease from killing off **your** hogs like flies and wiping out **your** pork profits? Be on the safe side—don't wait—hog cholera breaks out suddenly—**ravages** and **kills** quickly! You **can prevent** it—easily and at a very small cost. Just mix with your hog feed a little MERRY WAR POWDERED LYE. (Directions on every can.) **Feed twice daily.** It's the **proven preventive.** Thousands of practical hog raisers and farmers **know** this by **actual experience.**

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Mrs. Joseph Giesken, Parnell, Mo.—"After we began using Merry War Powdered Lye we never lost a hog."

Don't Experiment—Refuse Substitutes

Don't be persuaded to try an ordinary, old-fashioned lye as a possible preventive of hog cholera. At best, it would be a doubtful, perhaps a **dangerous** experiment. MERRY WAR POWDERED LYE will **not** hurt your hogs. It is the specially prepared lye that is **safe** to feed to hogs as directed on every can, and **there are no substitutes.**

MERRY WAR POWDERED LYE is not only a **safe preventive** of cholera, but it is also the best hog fattener, and all 'round conditioner the world has ever known.

Users say it positively destroys worms. It keeps the hogs on their feed, makes them fat and sleek, skins free from scurvy and keeps the digestion in such perfect condition that every pound of feed is changed into profit making flesh and fat. One week's trial will convince you.

Prove This For Yourself. MERRY WAR POWDERED LYE is for sale at most dealers, 10c per can (**120 feeds**). It is convenient to buy in case lots—4 dozen cans, $4.80. Costs only **5c per hog, per month** to feed regularly—by far the best and much the cheapest hog insurance you can buy. If your grocers, druggists or feed dealers' can't supply you, write us stating their names. We will see that you are supplied; also send you FREE a valuable booklet "How To Get the Biggest Profits From Hog Raising."

Order Direct from us in case lots—4 doz. cans, $4.80—if your dealers' won't supply you.

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Ideal Hoist A Helper In the Hay Harvest.

Operated with your own engine. Used any place where there is a rope or cable to pull or hoisting to do. Makes it easy for you to pull hay into barn, or on the stack. Elevates grain, building material. Loads manure, operates derricks, etc. Easy to operate. Friction clutch drive, brake for holding load. Pull-Back Drum for returning empty hay carriers, sprocket chain or belt drive to engine, with or without trucks. Easily operated from any distance.

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Let us prove at our risk that the Ideal is the best Hoist made. Try it with money-back privilege if not as represented. Free catalog with complete information sent you on request. Address

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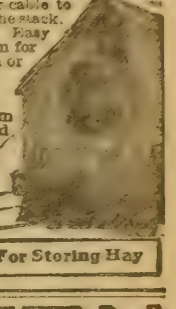

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When the wind don't blow you will need an Appleton Gasoline Engine and pump jack. You can belt on to the pump, when needed, or run your churn, hand sheller, etc. For heavy work, running the husker or silo filler you have your pick up to 18 H. P. Hopper cooled, speed changing device, single side rod; a perfect engine. Write us today.

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CURE THAT SPAVINED HORSE

In three weeks' time you can have a good, sound driver or work horse in place of a lame, spavined animal, by using **Bo-Spav-O**—the remedy that is guaranteed to positively remove and cure a bone spavin without blistering or leaving scar or blemish of any kind. A simple, humane, easy-to-apply remedy that quickly makes bone spavins disappear. Used for three years and not a single failure. Write today for interesting circular and further information.

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TRADE MARK
GUARANTEED TO POSITIVELY REMOVE AND CURE A BONE SPAVIN
WILL NOT BLISTER
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$25 for a Name for this Pony

I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

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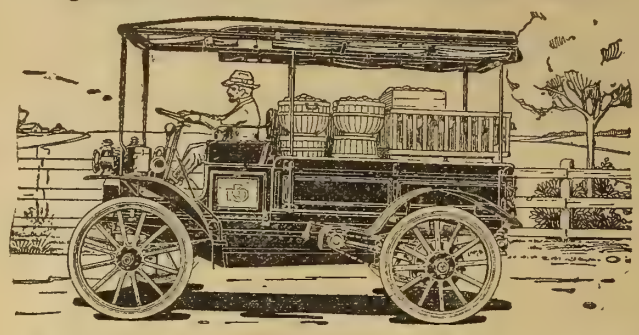

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Mechanically Perfect—a Giant of Power Costs but $750

On good roads—the equal of any two horses that ever ate their $2 worth of feed a day; on sand and through mud—the equal of any four. Yet it works from morning till night on a pittance of gasoline and oil—say forty cents worth of the former and a nickel's worth of the latter.

Fasts when not busy; needs no veterinary; no blacksmith; doesn't get frightened at a blowing newspaper; litters up no stable; requires no hay loft and grain bin; saves barn space and hired help; and can be operated by any man or grown boy who knows enough to pour fuel into a funnel. Lastly—costs but $750.

As Uncle Sam said to Mexico: "I ain't arguing; I'm just telling you." There is no argument—can be no argument in the matter at all. All we ask is that you see for yourself that—at $750—we have really produced a motor truck answering perfectly and exactly to the needs of the farmer who wants to haul his produce to market quicker and cheaper.

Write us for full description of this powerful little truck. Tell us also something about the work you expect of it, and we can give you some interesting facts and figures, also the name and address of the nearest of our 1100 dealers who can show it to you.

REO MOTOR TRUCK COMPANY,
Lansing, Michigan.

Do You Want to Make Up Lost Time in the Corn Field?

By that, we mean do you want your corn to ripen from one to two weeks earlier than it would under ordinary methods of cultivation?

Corn is going into the ground late this year, on the average fully two weeks.

This means that you must make the most of the growing season, and that you cannot afford to overlook any method of cultivation which will mean the quicker ripening of your crop. The use of

Tower Cultivators Means Earlier Ripening

Corn cultivated by our method ripens two weeks earlier than where shovel plows are used. This is not guess work—it is the result of actual experience of corn growers.

You cultivate the corn the right way when you use **the Tower System.** It does not dig and tear up the roots. It works in close to the plant, and cuts the weeds off so that they are soon killed by the hot sun. It leaves a loose mulch on top which conserves the moisture and promotes rapid growth.

Nature calculates that each corn root shall work for you, furnishing nourishment to grow and mature a **good ear of corn,** it is your duty **to assist** and **not resist—to promote** and **not prevent** the growth of the root system. Fifteen minutes—with the use of one finger—in the corn field will prove the root system to your satisfaction. The **Tower Cultivators** cost no more than shovel cultivators—are well made and durable. Your dealer will sell you and take care of you, if not we will. There are some imitations, but the **real Tower** always has the name "Tower" on the tongue—look for it.

Our corn book for the asking. Yours for sound corn,

(One right way)

THE J. D. TOWER & SONS CO., 40th St., Mendota, Ill.

1908; E. E. Spence		345
Sittyton Rose, calved 1912; Elmer Morris, Peon, Ind		350
Sittyton Secret, calved 1912; Elmer Morris		260
BULLS.		
Browndale Sultan, calved 1910; James Yuille		2,000
Roan Sultan, calved 1908; Robert R. Ward		1,050
White Star, calved 1906; R. E. Baldwin, Osceola, Iowa		225
Gem's Prince, calved 1912; James Brown		425
SUMMARY.		
41 females	$21,405; average	$522
5 bulls	4,200; average	840
46 cattle	25,605; average	556

Bay's Short-horn Sale.

A successful sale of Short-horn cattle was held at Aledo, Ill., June 4th, by John M. Bay. It was his first annual offering, although he has been breeding Short-horns for a good many years and while values did not rule high, yet the fact that nearly all the cattle were bred by Mr. Bay made the sale a financial success for him, and yet buyers were enabled to secure cattle at values that left them a good margin. The cattle were presented in good condition and Mr. Bay added to his already wide circle of friends by his satisfactory method of doing business. Col. Carey M. Jones was the auctioneer and did a most excellent day's work. The following is a list of all sales amounting to $100 or over:

FEMALES.		
Beauty's Lass, calved 1911; D. C. Strickland, Waltonville, Ill		$180
Roan Beauty, calved 1908; J. O. Blakeslee, Rapatee, Ill		175
Golden Fancy, calved 1912; W. T. Church, Aledo, Ill		255
Violet Luster, calved 1910; Chas. Weir, Rio, Ill		150
Northern Beauty, calved 1912; C. J. McMaster, Altona, Ill		140
Sunny Slope Isabel, calved 1911; H. C. Simpson, Altona, Ill		135
Lady Violet, calved 1904, and c. c.; W. T. Church		285
Silk Velvet, calved 1912; W. T. Church		100
Sunny Slope Acanthus, calved 1906; Chas. Weir		165
Anencone, calved 1911; D. F. Strickland		105
Blanche 8th, calved 1910; Chandler Bros., Aledo, Ill		120
Merry May, calved 1910, and b. c.; W. B. Cook, Aledo, Ill		145
Edna 3d, calved 1909, and c. c.; F. W. Bloomer, Joy, Ill		115
Luella 11th, calved 1910, and b. c.; Chas. Weir		145
Anna Craibstone, calved 1910; H. Stacey, Fremont, Iowa		120
Harriet Craibstone, calved 1910; A. C. Barr, Monmouth, Ill		105
Hattie's Pansy, calved 1910; A. C. Barr		125
Victor's Earl 3d, calved 1907; Chas. Weir		115
Roan Lady, calved 1908, and c. c.; W. K. Glenn, Galesburg, Ill		120
Primrose Fair, calved 1906; Bentley & Son		330
BULLS.		
Roan Goods, calved 1911; W. T. Church		190
Beauty's Lad, calved 1912; D. M. Strickland		200
Fancy's Baron, calved 1912; D. C. McClanahan, Lafayette, Ill		105
Mr. Dooley, calved 1912; John Walstein, New Windsor, Ill		200
Challenger 2d, calved 1911; A. C. Barr		295
Sunny Slope Baron, calved 1912; H. Stacey		115
Red Challenger, calved 1912; Geo. Walker, Viola, Ill		210
Violet Duke, calved 1912; M. W. Kendall, Reynolds, Ill		145
Maynet, calved 1912; I. P. & C. P. Bodish, Springville, Iowa		190
Challenger's Pride, calved 1911; Rader Bros., Seaton, Ill		145
Clausman, calved 1912; Oscar Marsh, Aledo, Ill		110
Foxylove, calved 1912; Kirk Phelps, Monmouth, Ill		105
SUMMARY.		
25 females	$3,505; average	$140
12 bulls	2,010; average	167
37 cattle	5,515; average	150

A PAVED COUNTRY HIGHWAY.

To the Editor of The Homestead:

Piatt county, Illinois, built a trial stretch of paved road in 1912, patterned after roads that have been built in the adjoining county of Douglas. The county had hotly discussed various methods of improving its earth roads, all agreeing that we could not stand the cost of gravel or macadam, when a gentleman who had taken a large part in promoting brick-paved roads about his home section in Douglas county, was invited to talk about these roads in the Piatt County Farmers' Institute in January, 1912. His description so pleased the people that the several factions almost united in adopting the ideas he suggested.

A petition was readily signed by the requisite number of voters and land owners asking that the question of extending one of the brick-paved streets from the city limits of Monticello to the cemetery, three-fourths of a mile distant, passing the county fair-ground entrance, be submitted to the tax payers of Monticello township to be paid for by special township tax if approved at the following annual election of township officers in April. The township comprises forty-eight square miles. The voters favored the road and a tax was levied to pay for it.

The specifications called for a paved road sixteen feet wide, to occupy but one-half of the highway, with a concrete curb and gutter along the outside, a regular arched foundation overlaid with five inches of grout, then a cushion of one inch of clean, sharp sand on which regular paving brick four by four by nine should be laid. This was essentially the construction of the city pavement, of which it is a continuance, except that the city pavement occupies the full width of the street and has curb and gutter on both sides. The inner side of the township pavement has a concrete slope to permit vehicles to pass at pleasure from pavement to dirt road or vice versa.

The pavement was completed in December and meets with general approval. The earth roads of the corn belt are ideal roads when not too wet. It is found that when muddy the pavement is used altogether, thus eliminating the cutting up of the soft earth half of the road. The actual working width of the paved portion is fifteen feet.

The cost of this stretch was greater than such a road must cost if its use becomes general. It should be built without curb and gutter, the width may be reduced to nine feet and the paved part may be placed in the center, thus giving opportunity to use the earth strips on both sides. The engineer and contractor who built the pavement for Monticello township says that on our prairie roads such pavements without curb and gutter and with good concrete culverts where needed can be built at a cost of $1,000 a mile for each foot in width. The road as built cost us nearly $16,000, but this includes the cost of two expensive concrete bridges full width of the road.

A second petition for a mile and three-fourths extending from the city in another direction was turned down by the voters at the recent April election chiefly because they think that the entire township ought not to have to bear all the cost when a favored few get the most benefit. The road already built was different, as it extended to the cemetery and at times the earth road was nearly impassable. All the township uses that stretch.

The concrete pavement is discussed, but no concrete surface can compete with the hard-burned paving brick. Gravel roads are not found durable enough to warrant their construction on our prairie roads; they require too much repairing.

Subscriber.

The department of agriculture has published a bulletin on "Raising Guinea Pigs." The author, Mr. David E. Lantz, assistant in the Bureau of Biological Survey, says: "The rearing of Guinea pigs requires no extraordinary knowledge and no great outlay of capital. Little space is needed to accommodate the animals, which are hardy and easily managed. They make interesting pets and are useful food animals. The constantly increasing demand for them in scientific investigations and medical research insures a ready market for reasonable numbers at prices that should be remunerative to the producer."

Galloway's Famous Pumping Engines

Wm. Galloway, Pres.

Get My Special Engine and Pump-Jack Combination Offer—NOW! Yes, sir. Do it today. Don't wait a minute. Just sit right down and drop me a postal and say, "Galloway, send me your special pumping engine offer." I am out after the pumping engine business and I am going to get it because I am making the best pumping engine outfit ever made and selling it at a price never before equalled. You can't imagine the number of uses you can put one of these little engines to until you see my **Special Pumping Engine** catalog. It's something new and different and I have a copy waiting for you, free. Just write me for it without fail today. Don't wait until your windmill blows down or the calm hot days get here when the windmill won't run and you have to toil and sweat pumping water by hand for a lot of live stock. No, sir; don't do it. Be prepared. Get my catalog and special offer. That's the first step. Then—

$24.75 And Up

I'll Save You $25 to $300

on the first cost alone. I'll save you $25 to $50 on the best pumping outfit made. On my larger engines I can save you as high as $300 and more. Remember, we make engines in sizes from 1 3-4 h. p. up to 15 h. p. My 1 3-4 h.p., air cooled, little "Boss of the Farm" engine sells for only $24.75—an unheard of price. The same style of engine at your dealers costs from $45 to $65. Now, that's just a sample of what buying direct from Galloway means in money saved. Get my special pumping engine offer right away. Write today.

FREE Service Department. When it comes to help or information for proper installing to get the most profit out of your engine, just call on my Service Department composed of engine experts. Think of it. I not only save you money right at the start but put at your disposal a corps of experts who will tell you how to install your engine, size pulleys to use with different machines, anything, in fact, you may want to know, and this service don't cost you one cent. It's just another advantage you get when you buy of Galloway.

Write Today for My Catalog and Special 1913 Business Proposition

Here's a final clincher. My 1913 Special Business Proposition. I've got a new plan which will help you get your engine partly or entirely without cost to you in the end. No canvassing, no soliciting, no agent's proposition, for we don't sell through agents—but just a straight business offer. Will give full details when you write me. Send for special pumping catalog—offer—and my new bed rock engine prices. Don't lay this paper down and forget it. Write me now. Address me as below:

Wm. Galloway, Pres., WILLIAM GALLOWAY CO.
1554 Galloway Station
Waterloo, Iowa

DATES FOR LIVE STOCK SALES.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.
Oct. 24, Geo. Leigh and Wm. George, Aurora, Ill.

Short-horn Cattle.

Oct. 14, C. J. McMaster, Altona, Ill.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank Bros. & Kleen, Franklin, Neb.

Holstein-Friesian Cattle.

Oct. 1 and 2, Holstein Breeder Company Combination sale, Painesville, S. T. Wood, manager, Geneva, O.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Kellogg, Ia. (Sale at Newton).
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Poland China Swine.

June 25, Peter Mouw, Orange City, Ia.
Aug. 6, M. P. Hancher, Rolfe, Iowa.
Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, J. W. Pfander & Sons, Clarinda, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 16, Thos. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Thos. F. Walker & Son, Alexandria, sale at Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 20, C. B. Powers, Aurora, Neb.
Oct. 21, C. W. Francisco, Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hillficker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 6, W. E. Epley, Diller, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.

Hampshire Swine.

Oct. 14, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

C. J. McMasters, the progressive Short-horn breeder at Altona, Ill., claims October 14th as the date for his annual fall sale. Full particulars will appear in these columns in due time.

Twenty very choice Duroc Jersey fall boars are advertised for sale by W. J. Wendt, Remsen, Iowa, on page 22. These are big, lusty fellows and he is pricing them at from $25 to $50 if taken right away. Write him about these boars at once.

W. Doolittle, Woodland, Mo. breeder of O. I. C. and Chester White hogs pays express on all pigs sold at weaning time. His is one of the good herds of the country and our readers will make no mistake in ordering from Mr. Doolittle. See advertisement on page 23.

Kendall's Spavin Cure is advertiseed on page 17. It ought not be necessary to do more than call the attention of our readers to this fact, because Kendall's Spavin Cure is universally recommended as the most valuable preparation for the cure of spavin and like horse affections. Among those who have written with reference to it is Louis Gratton, Ringwood, Ill., who says: "I have used Kendall's Spavin Cure with good results. I recommend it. I believe it to be the best remedy on the market." The "Treatise on the Horse," which is offered free to readers of this paper is spoken of as follows by E. J. Newman, Barrett, Minn.: "Please send me Kendall's Treatise on the Horse. I have had one for the last twenty-five years and now it is worn out. The book has saved many doctor bills. Kendall's Spavin Cure is O. K." Orders for the spavin cure or requests for copies of the Treatise on the Horse should be forwarded to Dr. B. J. Kendall Co., Enosburg Falls, Vt.

F. P. Healy, Bedford, Iowa, in his advertisement on page 24 of this issue states that he has the largest herd of registered Shetland ponies in the state. He asks Homestead readers to send a two-cent stamp for price list and catalog containing several pictures of the ponies he has for sale.

H. J. Rompf, Marion, Iowa, announces in an advertisement on page 10 that he has now ready for shipment a number of pedigreed Scotch Collie puppies. These are of good colors, whites and sables, from working parents and sure to make cattle dogs. They are quite intelligent, have plenty of grit and otherwise desirable. Note that they are sold at $10 each.

A. D. Jones, Dunlap, Iowa, the breeder of big-type Polands reports sixty good spring pigs on hand and a lot of fall boars and sows. These are sired by J.'s Dry Creek, Orange Price and Miller's Tecumseh. Mr. Jones has quite a few descendants of old Mollie Fair in his herd as well as other noted big-type strains. He will have some good boars to offer the trade this fall.

J. C. Porter, Ogden, Iowa, is still offering for sale some excellent September and October Duroc Jersey boars, as well as gilts of the larger sort. They will weigh from 250 to 275 pounds, have plenty of length and bone and good quality. They are sired by a grandson of Ohio Chief and their dams are by Crimson Wonder Again and High Col., the latter a son of Freed's Col.

Two good Chester White herd boars, bred from prize-winning ancestry, and used at the head of the G. H. Tutt herd at Marathon, Iowa, are advertised for sale, together with ten splendid sows bred for fall farrow. He is making the price on these two herd boars at $50 and they are well worth the money. He is pricing the sows bred for fall litter at $40 and up. Send him an order at once.

The Wabers potato digger advertised on page 9 is a machine having a construction especially adapted to its purpose. It is built to move smoothly with no erratic movements, does its work correctly and in the best possible manner. Its claims are supported by hundreds of testimonials, some of which together with illustrated descriptions may be obtained in Catalog C, 1912, for which address Wabers Mfg Co., Racine, Wis.

On page 21 Davenport & Mack, Belmond, Iowa, make a change in their advertisement. They are offering for sale an excellent nine-months-old Scotch Rosemary Short-horn bull calf together with two older ones of Scotch-topped lines of breeding. They advise us that they have sold the Scotch Lancaster bull which they have been advertising in these columns to A Hohman, Larchwood, Iowa. This is an outstanding good bull and one from which good words will later be heard. For prices on the young bulls above referred to write to the address given.

Twenty-five very choice big-type Poland China brood sows, all bred for early fall farrow to Mouw's Big Sioux are advertised for sale by George Glynn, Sioux Rapids, Iowa, on page 23. Mr. Glynn has no better sows in his herd than these he is offering for sale. He has more sows than he can handle and this is the only reason he is offering these for sale. He also offers to sell his splendid two-year-old herd boar, Smooth Jumbo, and he is the making of a great herd boar. Mr. Glynn guarantees satisfaction on these sows he is offering for sale, as they are as good as he has in his herd.

John De Young, Sheldon, Iowa, one of the oldest breeders of Duroc Jerseys in the northwestern part of the state, has 175 spring pigs this year and he has some good ones. They are sired by King of Cols. and out of an Orion Chief sow, and Big Bone Climax, a son of Crimson Climax. Mr. De Young expects to have a splendid lot of boars for his fall trade and you will hear from him later in the season through The Homestead. He has always had good and well-bred boars at the head as well as a lot of good brood sows. When in his neck of the woods drop in and inspect his herd and he can fit you and with a good pig later in the season.

H. D. Clore breeds polled and horned Hereford cattle and advertises them on page 23. Under date of June 6th he writes: "My little advertisement in The Homestead is bringing lots of inquiries for polled Hereford bulls and I have made several sales. Among them was a fine calf to J. C. Kinney, Oakley, Iowa. I also sold an outstanding young bull to T. A. Norman, Russell, Iowa. Each of these gentlemen has a fine herd of horned Herefords. I still have some splendid young bulls that would suit the most discriminating buyers. It is only necessary for customers to see these animals to be convinced." Address inquiries for information or prices to H. D. Clore, Lucas, Iowa.

A public sale of fifty head of imported Hereford cattle will be made at Aurora, Ill., October 24th, by George Leigh and William George. The cattle are now in quarantine, having landed May 20th. This is the first importation of Herefords that has been made for ten years, and it is significant that Mr. Leigh made the last importation in 1893. Included in the present importation are fourteen head of bulls, among them Farmer, considered by thoroughly competent judges to be the best two-year-old Hereford bull in England this year. In addition there are thirteen yearling bulls ranging in age from twelve to sixteen months. Since 1881 Mr. Leigh has imported over 1,700 head of Hereford cattle to this country. In the present importation he is associated with William George, the well-known banker and stockman of Aurora, Ill.

On page 24 of this issue of The Homestead will be found the advertisement of Fred Galliers, Albia, Iowa, offering two Black Norman stallion colts for sale.

The Walker Remedy Co., Lamoni, Iowa, have for a number of years been making patient investigations into the merits of different preparations adapted to the use of poultrymen. A result is Walker's Walko Remedy, a cure for dirrhoea that is so deadly where large numbers of young chicks are raised. This remedy is so thoroughly effective that it has received the unsolicited commendation of hundreds of farmers who have absolute faith it its merits. One lady in particular writes that though she used but two packages she raised 300 chicks without having lost a single one. See the announcement on page 11 and forward orders to the Walker Remedy Co., U-8, Lamoni, Iowa.

Holstein Bull for Sale.

A fourteen-months-old Holstein bull eligible to registry will be sold for $50, if taken within the next few days, by Ed Freese, Nora Springs, Iowa. This is a growthy calf and comes from good ancestors. If interested write Ed Freese, Nora Springs, Iowa, mentioning The Homestead.

Smalling's Durocs.

S. O. Smalling, Laporte City, Iowa, has about sixty nice spring pigs sired by Chief's Model 2d, Prince of Wonders and a son of Col.'s Prince. He expects to hold a bred sow sale in February. Mr. Smalling is working along right lines and has been buying the right kind of seed stock.

W. C. Seybold, the Auctioneer.

In a recent interesting letter received from W. C. Seybold, Harvard, Neb., an auctioneer of ability and a man that either sells or buys pure-bred stock, he says the following among other things: "Salesmanship is an art, but ability to buy wisely is genius. Don't let opportunities slip away like last winter's snow, but arrange to sell your stock now, or if you need to replenish your herds, the time is equally opportune. The breeders that do not try for better things never find them. This is not a bid for business on a bubble guarantee, but I do conduct sales of any kind anywhere, and I have always given satisfaction." If interested, write Col. W. C. Seybold, Harvard, Neb.

John Hansen's Durocs.

In a letter just received from John Hansen, Herman, Neb., he says: "I have forty spring pigs and they are coming along fine just now and I expect to make them look like they will be worth the money this fall. I have not got a runt in my bunch and this is going some for this time of the year. They are sired by Sunbeam Lad and Nebraska Col. The former boar is a son of Gold Dust Boy by Gold Dust Wonder, he by the Iowa State Fair grand champion boar, Gold Dust Jim. I also have a nice bunch of fall yearlings and they are also doing well." It will be remembered that Mr. Hansen went out to the Nebraska State Fair last fall, the first time he ever showed, and he came away with the grand champion ribbon on his noted sow, Sunbeam Girl. Just keep your eye on Mr. Hansen as he is going to have something for the boys this fall.

Ladoux Chester Whites.

Those of our readers who are interested in Chester Whites will be pleased to know that F. W. Ladoux, Spirit Lake, Iowa, has eighty spring pigs that he is bringing along for his fall trade. They are sired by Gold Coin 21349, a splendid boar he is using at the head of his herd. There are forty of these that are sired by this hog. He has three litters by Gold Dollar and the remainder are out of sows he purchased at the various sales last winter. One of these litters is sired by Ike and is out of the second highest priced sow in the John Holst sale last winter. Another litter is out of a granddaughter of Nora 2d, the champion sow at the Iowa State Fair. Mr. Ladoux has fifteen fall boars that are sired by Gold Coin and there are some right good ones among the bunch. Quite a few of these will make good herd boars and he is offering them at $35 and $40 as long as they last. It is a good time right now to send him an order for one of these boars and you will be sure to get a good one. When writing him kindly mention The Homestead.

W. E. Epley's Polands.

Some of the best state fair propositions that we have seen for a time we encountered on the Epley farm, Diller, Neb., a few days ago. Mr. Epley has been buying and breeding a lot of good Poland Chinas for the past several years, and just now he has some that are good. A senior yearling sow that is the equal of anything that we have seen in a long time is here. She is mighty big, and we know that she has made an immense growth since in the winter. If she keeps it up and carries it as well as she is now doing she is bound to make it interesting for some one at the fair this fall. She is sired by Big Chief, an extra good breeding boars by Hamilton & Son's noted boar, Choice Goods. Her dam is a daughter of Hutch Hadley, one of the best individual boars ever sired by Big Hadley, and the dam of Hutch Hadley was Lady Hutch by the noted Big Hutch. This is a line of breeding that is not so well known as some, but we doubt very much if there is anything in the country bigger and better than this pedigree outside of the Big Hadley cross that is in it. Some under-year sows and boars are sired by Hutch Hadley, also a few by Expanson Chief, and they are also extra big. They will bear inspection this fall, and remember that Mr. Epley will make a sale on November 6th if all goes well.

Poland China Bred Sows.

Anyone wanting some good Poland China bred sows for fall farrow can buy them of C. M. Peterson, Dunlap, Iowa, and he has some good ones for sale. He can spare about ten of these and they are bred to Henry Bar Bone, one of the best boars he has ever owned. Write him about these sows and send him an order.

A Good Scotch Bull for Sale.

On page 21 Powell & Son, Linn Grove, Iowa, advertises a good, young white Scotch bull for sale sired by the Iowa State Fair champion, King Cumberland 2d. He is out of a daughter of the noted show bull, Ceremonious Archer, and he is a royally bred Miss Ramsden. He will make a splendid herd bull for some enterprising breeder. Write the Powells about this bull at once or go and see him.

Choice Hereford Bulls.

On page 23 A. Spooner & Son, Mondamin, Iowa, advertises fifty head of choice young bulls for sale and they are good. We had the pleasure of looking these bulls over last week and found them in excellent condition. Their breeding and individual merit will entitle them to a place at the head of the best of herds. Anybody wanting a right good Hereford bull, or a car load, should lose no time in going to see these bulls. When writing him kindly mention The Homestead.

Angus Bulls in Chicago Sale

Late entries for Manager Judy's sale of Angus cattle at Chicago next Wednesday, June 18th, bring the total number up to sixty head, and included are seventeen head of bulls that should command attention. These bulls include a number of highly bred herd-heading propositions as well as some extra strong steer getting bulls. The very choicest blood lines are represented in the offering, and buyers should not overlook it. Remember the day, next Wednesday, June 18th, at Chicago.

Duroc Jersey Fall Boars.

A good lot of fall boars and some good fall sows are advertised for sale by L. L. De Young, Sheldon, Iowa, on page 22. These are sired by Crimson Advance, a son of Advance 5th. He is pricing these at $25 and $35 and will sell pairs or trios as his customers desire. He has 100 head of spring pigs and these are sired by Model Chief I Am, a son of Model Chief Jr., by old Model Chief. Send Mr. De Young an order for some of these boars or sows as you desire, and kindly mention The Homestead.

Carriage Quality.

It is a generally accepted fact that in the purchase of any tool, machine or implement it is a good policy to buy those of high quality. This argument is especially true in the case of carriages. The Kratzer carriage advertised on page 8 is a vehicle which is built for the purpose of giving special service to the buyer. Every article of material is selected with particular care and in its construction attention is given to every detail so that the finished product is as good as it can be made. Fee catalog and price list may be obtained by writing to Kratzer Carriage Co., 104 West First St., Des Moines, Iowa.

Good Fall Boars for Sale.

On page 23 F. E. Jackson, Hurley, S. D., is offering some very choice Poland China fall boars for sale sired by Dale's Expansion and out of daughters of Big Tom, Big Victor and Golddust Hadley. The sire of these fall boars is regarded as one of the greatest boars today in South Dakota, and the dams of these pigs were the tops of the most prominent sales throughout the West. He is offering some that are good enough to head any herd and at reasonable prices. He also offers some good sows bred to Dale's Expansion for fall litters. This boar, Dale's Expansion, was the best fall boar that Henry Dorr sold in 1911, so you may know he is a good hog. Write Mr. Jackson at once about these boars and sows and please mention The Homestead when doing so.

Angus Sale at Chicago, June 18th.

Fifty head of well-bred and well-made Aberdeen Angus cattle will be offered at public sale at Chicago, Wednesday of next week, June 18th. These cattle have been carefully selected for this offering by M. A. Judy, the veteran breeder, showman and expert judge and sales manager, and the buying public can rest assured that the cattle will be the sort that are satisfactory in every way. Representatives of the Trojan Erica, Blackbird, K. Pride, Queen Mother, Heatherbloom and other popular families, are listed in abundance, all consigned by breeders of experience and established reputation for producing the very best class of cattle. The time was never more propitious for buying beef cattle than right now. The demand is keen and the supply is short. Such conditions show conclusively that the breeder of beef cattle is coming into his own again, and that for many years to come prosperous conditions are bound to prevail in the cattle breeding and feeding lines. Such being the case it is the wise man who takes advantage of conditions and puts himself in shape to participate in this prosperity, which is not coming, but is here. A number of exceedingly good young bulls are cataloged for this sale, among them some herd-heading prospects and a number that are just what the corn-belt farmer needs for the siring of the market-topping steers. This will be the only offering of Angus cattle east of the Mississippi river this spring, and the buying public should not overlook it. The demand for cattle is so strong that there are not many available, and when

the opportunity is afforded to place public sale values upon a strong lot it should not be passed by. Remember the date, Wednesday of next week, June 18th, at Chicago. Any desired information and copies of the catalog can be secured by addressing M. A. Judy, West Lebanon, Ind.

Ficke's Durocs.

Hugh M. Ficke, Long Grove, Iowa, has an excellent herd of well-bred Duroc Jerseys. He has 140 spring pigs largely sired by Premier Gold Bond, a grandson of that great sire, Golden Rule. He has one nice litter by Cherry Chief, out of a Proud Col. sow, and other litters by Royal Col., Professor 2d, S. E.'s Premier, Eclipse and B. & C.'s Perfection. There are ten fall boars by Premier Gold Bond and they are a big, stretchy, smooth lot. A little later in the season Mr. Fricke will offer boars for sale to our readers and we want to say he will have the kind that will suit. They will have the size, bone and quality that breeders like.

Record Price for a Draft Colt.

There was recently sold in the East St. Louis horse market the highest-price three-year-old draft gelding ever sold in that market. This colt weighed 2,140 pounds, was sired by the imported Shire stallion Milestone Harold, imported by Trumans' Pioneer Stud Farm, Bushnell, Ill., was bred and raised at Paris, Ill., and sold by Holland-Nugent-Maxwell Bros. Company to J. G. Truman for the record price of $625. This gelding will be shown at the leading state fairs and horse shows the coming fall. As evidencing the keen demand for good graft geldings it may be stated that at the same date seventeen head consigned by Halstead Bros., Tecumseh, Neb., sold in the auction for $5,012.50, an average of $295.

Porter's Duroc Jerseys.

Writing under date of May 31st, J. C. Porter, Ogden, Iowa, breeder of Duroc Jersey hogs, has the following to say: "I have still for sale a few more large, vigorous boars of October farrow. They now wegh from 175 to 200 pounds each, not fat, but just in fine breeding condition. I will send these boars out by express, charges prepaid, at $40. This offer holds good only for the next thirty days. I have also ten very choice open gilts for sale sired by R. J.'s Chief, a grandson of Ohio Chief and out of dams by Crimson Wonder Again and High Col. These gilts weigh from 225 to 250 pounds. I have eighty spring pigs that are coming along in fine shape. They are the get of R. J.'s Chief and King Gano." Requests for information should be addressed to J. C. Porter, Ogden, Iowa.

Gilbert Johnson's Poland Chinas.

With ninety spring pigs and a good bunch of fall gilts, Gilbert Johnson, Osceola, Neb., is in better shape than ever to take care of his Poland China trade. Mr. Johnson made one of the real good Poland China sales of Nebraska last season, and those that purchased got extra good values in most cases. Mr. Johnson has used good-breeding material in his operations all the way through and his herd at present consists of as good a bunch of big sows as most anyone can show. The present herd boars are Hather's Hadley 2d, the sire of the great show boar, Hadley Over, and Choice Orange by Big Orange. These boars are both breeding very nicely. Hather's Hadley 2d was a proven sire when Mr. Johnson bought him, and Choice Orange is coming up to all expectations. Mr. Johnson will hold a fall sale, October 11th, and at that time will put up an offering that will be deserving of the attendance of the good Poland China breeders. Watch The Homestead for further announcements.

Peter Mouw's Great Sale.

The big-type Poland China breeder who is going to want a herd boar the coming fall will be particularly interested in the forthcoming sale of Peter Mouw, Orange City, Iowa, on June 25th. It is full of herd-boar propositions, especially for those breeders who are wanting the large-type kind. In last week's issue we told our readers of the many herd-boar propositions he is listing for this sale, and if you are wanting a big boar, bred along Peter Mouw's strictly big-type lines and backed by his most noted large-type strains, then you will be interested in this sale. Eight head of these boars will be sired by Big Jumbo and they will all be over a year and under three years of age. He has been carrying these boars along with a view of making herd boars out of them and now that he is going to make a trip abroad with his wife he concluded to make a midsummer sale and is therefore cataloging them for this occasion. Oakwood Jumbo, Square Jumbo and Tecumseh Jumbo will all make extremely large boars and great herd headers. The same can be said of Iowa King, Younb Jumbo, Chief Price, Long Jumbo and Long Orange. There are a lot of other good big boars in the Mouw offering, and the catalog will tell you all about them. It is possibly the greatest line up of strictly large-type boars that Mr. Mouw has ever sold in a public sale and it is seldom, if ever, that so many herd-heading boars are offered at one time. Behind these boars is the blood of the most noted strains in the Mouw herd, so that when you buy one of these you get the blood that has been making the big-type hogs famous. He is selling Great Lady D. in this sale. She is a two-year-old sow and is a daughter of Great Wonder. She is one of his best brood sows and she will be bred for fall litter. He well also have a number of his best young sows bred for fall litter and the choicest of his fall sows will sell open. It will be a great place to buy Peter Mouw's most famous big-type Poland Chinas, the kind that has put him in the king row as well as many of the breeders who have been buying his hogs for the past number of years. Write for his great catalog and kindly mention The Homestead. Mr. M. T. White will attend this sale and will attend to any bids sent in his care. See page 23.

Swale's Jerseys.

C. J. Swale, Fredericksburg, Iowa, has a good herd of Duroc Jerseys headed by the prize-winning boar, Chief Select Jr., and C. J.'s Chief. Chief Select Jr. is a son of the noted sire, Chief Select, and has proven an excellent sire. Mr. Swale has used this boar three years and owing to the fact that he has several daughters in the herd Chief Select Jr. would be sold at a very low price for such a good boar. Mr. Swale has sixty spring pigs by Chief Select Jr., C. J.'s Chief, by Notcher F., and Bill Wonder by Crimson Wonder Again. Mr. Swale has decided not to show this year and will sell a three-year-old show sow sired by Model Wonder. She is in fine form to fit. Four fall boars by Bill Wonder and C. J.'s Chief are for sale. Watch this paper for future announcements from this herd.

Reubel's Bros.' Polands.

Few herds of Poland Chinas in the state of Iowa has stood the test of time better than has that of Reubel Bros., Marathon, Iowa, and they are still breeding good hogs just the same as they did years ago. In earlier days these breeders were located at Rockwell City, where they founded one of the best herds in the state, and later on bought the old Stangland farm at Marathon, and since that time have been gradually adding to their herd until today it is looked upon as one of the best herds in the Northwest. These breeders have 130 head of spring pigs this year and they are sired by Chief Again Price, Price's Giant and three litters by Peter Mouw's herd boars. The first-named boar is owned by Reubel Bros., and M. P. Hancher, and he was one of the best prize-winning boars seen at the state fairs in 1911. He is a son of that noted old boar, Chief Price Again, and his pigs in this herd look very promising. Another boar in this herd that is siring some good things is Price's Giant, a boar bred by Henry Dorr, and some of the very best brood sows these breeders own are daughters of his hog. They also have some good pigs by Reubel's A Wonder, a son of old A Wonder, that they formely owned in the herd. These breeders will not hold a fall sale, as they are figuring on selling their boars at private treaty, but they will hold a sow sale as usual the coming winter when they expect to have a great line-up of the best sows that will be sold in the Northwest.

Vanderslice Bros. Herd of Chester Whites.

The writer recently visited the Vanderslice Bros., Cheney Neb., and wish to report a still better lot of pigs, both in number and quality than these gentlemen had a year ago. This herd has always been a high-class one, and today it is a little better fixed than ever. One of the most interesting things about this herd just now is that the old herd boars, All O. K. is still at the head and breeding better than ever. He is ten years old, and has sired a wonderful lot of high-class boars and sows. Probably no sire in the West has done so well, and he looks good for some time yet. The younger boar is Fancy Goods, a Stevenson-bred boar and he is mating well on the All O. K. sows. Some new sows have been added from time to time, but they rarely compare with the older ones sired by the old boar. Among the many that do show up well, however, is a gilt from the Satre herd of Jewell, Iowa. She is real nice and raising a bunch of nice pigs. Vanderslice Bros. are ready to ship boars at any time from now on, and early orders will, of course, receive the choice selections. When writing mention this paper.

E. T. Ketchem's Poland Chinas.

Among the newer Poland China herds of Nebraska the writer wishes to mention the one owned by E. T. Ketchem, Shickley, Neb. Mr. Ketchem has been breeding Polands for about three years and has spared no means to get the extra good ones. He has bred pure-bred hogs for a number of years, and is familiar with the right principle for getting the good ones. His herd boars have been of the extra big sort, and his sows are of the same kind of stuff. Progressive Monarch by the old Schaldecker boar, Nebraska Boy, by the noted Long Boy by the Gritters-bred boar, Longfellow, is the sire of most of the spring pigs. This boar was sold recently, and was rated at 1,000 pounds. The writer never saw him, but he had done service in two of the best herds of that section of the country and was well liked by all the breeders of that section. Some other pigs are by Mastodon King by King Mastodon Jr. King Mastodon Jr. was sired by Wheeler's old boar, King Mastodon, and was used by J. A. Schaldecker, Grafton, for a couple of seasons and is now in the Ed Hickey herd. These two boars have given Mr. Ketchem a good line of stuff, and coming as they do from a sow bred that is practically of the same line of stuff, coming from Blackburn's herd that was strong in the blood of Longfellow M. by Longfellow 2d. Mr. Ketchem will offer the spring boars at private treaty and will book orders for them from this time on. Mention The Homestead when writing. We forgot to mention that Mr. Ketchem has one extra choice fall boar. He is a bit on the blocky order and he is priced low. He is real good not to head an extra high-class herd we do not mean, but yet a choice boar.

Freese Has Good Durocs.

Ed Freese, Nora Springs, Iowa, has a herd of Duroc Jerseys that he can be proud of. He has 110 spring pigs that are looking fine. They are sired by Sensation Wonder, Nebraska Crimson, Successor and King's Bud. His main herd boar is Nebraska Crimson, a son of the good breeding boar, I Am A Perfection Wonder, and we want to say Mr. Freese is fortunate in having such a good sire at the head of his herd. Mr. Freese will sell King's Bud by King Kant. He is a yearling boar of good length, smooth and has a good set of feet and legs. Fifty dollars will buy this boar, and he is a bargain at that price. Mr. Freese has a good bunch of sows sired by King of Cols. II, Kelly's Pilot Wonder, Chief Select, Golden Model II, Good E Nuff, Harding's King of Cols., Ohio Chief II, and Muncie Money Maker. Watch for Mr. Freese's advertisement in later issues of The Homestead.

Pratt Offers Yearling Duroc Boars.

M. S. Pratt, Frederika, Iowa, has for sale four yearling and two fall Duroc Jersey boars. Two of the yearlings are sired by the 1911 International grand champion boar, Volunteer, and out of M. C.'s Dream II by Chief's Col. and she out of the $700 grand champion sow, Mc.'s Dream. There is one yearling sired by Model Wonder and one by Proud Ohio Chief out of a B. & C.'s Col. sow. The two fall boars are sired by Pratt's Leader, a Crimson Wonder-bred boar. The fall boars have lots of size and are of good quality. These boars are priced worth the money and they are bred as good as any in the land. Mr. Pratt has over 100 spring pigs, among them a good litter by Golden Model II out of a Chief Select sow, a litter by Cherry King, dam by Proud Col., others by Crimson Ohio Chief, Crimson Chief II, I Am A Volunteer and Ohio Chief Wonder. In this herd are daughters of B. & C.'s Col., Golden Model L., Volunteer, Chief Col., Mc.'s Dream, Chief's Col., Proud Col., Proud Ohio Chief, Iowa Muncie, Col. Advance and others. This is enough breeding to suit anyone. If in need of a boar see page 22 and write Mr. Pratt mentioning The Homestead.

Barr & Son Offers Good Boars.

On page 21 will be found the advertisement of W. H. Barr & Son, Elliott, Iowa, who are offering some good Poland China boars for sale. They write us as follows about them: "As we have more herd boars than we have any use for we have decided to sell Mastodon Prospect. This is the good boar I had at Villisca, but since the death of Mrs. Barr and the breaking up of my home at Villisca, the boys and I have decided to sell this boar. We are doing business from the farm at Elliott now, and owing to the fact that we have other herd boars there is the only reason we have decided to sell this splendid hog. He is a son of B.'s Mastodon and his dam is Long Prospect 2d. In ordinary flesh he will weigh 550 pounds, and the pigs we have by him are looking fine. We are also offering seven good fall boars and some choice sows bred for fall farrow. We are also booking orders for spring boar pigs and we have 100 head to select from." Write W. H. Barr & Son, Elliott, Iowa.

Hazford Place Herefords.

Hazford Place comprising one of the largest tracts of land in Kansas devoted to the production of pure-bred cattle is owned by Robert H. Hazlett, Eldorado, Kan. The modern type of Hereford reigns supreme on this ranch and first consideration is of the cattle and their welfare. Good cattle form the breeding herd and better ones are being produced. A ride over the broad pastures and a close inspection of the mature cows leads one to think further improvement impossible, but on returning to inspect the youngsters one sees that a great work is being done in molding even more superior Herefords. Mr. Hazlett ranks among the constructive breeders, he loves good cattle and his happiest moments are passed among his pets "the white faces." The herd was founded with superior females, headed by the two great breeding bulls, Beau Beauty and Beau Brummel 10th and today one finds a great string of cows by these bulls in the herd. Beau Brummel 10th probably ranks among the greatest of the breeds' sires of females, that are great producing cows and none are for sale from Hazford Place. In order to further perpetuate and stamp the type Mr. Hazlett later secured Beau Santos another son of Beau Brummel and Publican by Paladin and their get show that no mistake was made. Caldo 2d by Printer, a former herd bull and Beau Sturgis 2d by Beau Brummel 10th are also in service. They with the 150 breeding cows all of the richest and strongest Anxiety breeding form one of the choicest practical working herds to be found. The writer was particularly impressed with the character, fleshing quality and scale found throughout the herd and it is from such herds that bulls that make good are secured.

Ellerbroek's Poland Chinas.

A representative of The Homestead recently visited the herd of Mrs. Peter Ellerbroek & Sons, Sheldon, Iowa, and found them with ninety head of good pigs. Our readers will remember that Mr. Ellerbroek died last winter and the wife and boys are going right on with the herd. Their present crop is sired by their former well-known herd boars, Ellerbroek's A Wonder, A Wonder A (a son of Fesenmeyer's A Wonder), Peter's Jumbo, Ellerbroek's Wonder and Longfellow Again. They will not hold a fall sale, but will hold a winter brood sow sale as has been usual with them. They will have some good boar pigs for sale the coming fall sired by the above-named boars. They will book orders for a sprin- pig at any time from now on. When writing them kindly mention The Homestead.

Quiet Dale Angus.

Last week the writer had the pleasure of visiting Quiet Dale Farm, owned by H. J. Hess, Waterloo, Iowa. We found his Angus herd in nice breeding condition, headed by the two Trojan Erica bulls, Egbert and Edale. Edale is a son of Earl Eric of Ballindalloch and topped the Escher sale of 1911. His calves are showing up in fine shape. Egbert is a three-year-old bull by Peter Sterling, and is doing good work in the herd. The herd numbers around 125 head, forty of which are promising young calves. Blackbird, Trojan Erica and Pride are the leading families represented and among the breeding matrons are a number that were winners in the Quiet Dale show herds of past years. Quiet Dale is well known as a place where prime beeves are fed and at the present time 120 Angus steers are on feed. Lt is well worth while to inspect this plant and Mr. Hess is glad to entertain anyone interested in the production of pure-bred cattle or high-class steers.

George Glynn Offers Sows.

On page 23 will be found the advertisement of George Glynn, Sioux Rapids, Iowa, who is offering some good, big-type Poland China sows and a good herd boar for sale. In a recent letter he has the following to say about them: "I am offering twenty of those good sows that will farrow all the way from June 15th to August 1st, and they are bred to Mouw's Big Sioux, a son of Big Black Bone, and his dam is Lucy by Surprise Wonder 4th. These sows that I am offering are sired by Bright J., Youngfellow and Crow's Kind. Some of these are yearling and some are two year olds. These are choice sows, but I have too many sows on my place and I am selling some of the very best I have in the herd. I have a few open sows for anybody that may want them. I also have two choice boars that I have been holding, and I have decided to sell them. They are sired by Smooth Jumbo and Alfonso. I have a very heavy-boned boar for sale by Smooth Jumbo and he will make a good herd boar. The others I am pricing at $40. The sows I am not afraid to send anywhere as I know they will please. I am asking from $50 to $75 for these and they are as good bargains as were ever offered. I am offering a good herd boar for sale in Smooth Jumbo and I am pricing him at $200 and he is the best bargain that can be had at the present time. He is a son of Crow's Kind, he by Big Orange and he is out of a dam by Wintermute's Jumbo. Just tell the boys I am offering some splendid sows and some good boars and I am pricing them where they will sell." Write or go and see Mr. Glynn and get some of those good bargains he is offering for sale.

Albert Smith & Sons' Poland Chinas.

One of the really choice herds of Nebraska type Poland Chinas of that great hog-breeding state is owned by Albert Smith & Sons, Superior. These gentlemen have been at the business for about fifteen years, and today the herd is strong in the blood of those that have made for material advancement. Smith's Big Hadley, one of the highest priced sons of the great and only Big Hadley did service in this herd for about four years. Many of his daughters are still in the herd and in other leading herds of the country, and they have absolutely made good. Another very valuable boar in the herd is Jumbo Jr., by Nebraska Jumbo. This is to our way of thinking one of the most valuable sires within the state. His get are always in demand, and they mature into the very finest kind of brood sows and the boars are also good, a feature that many great boars are lacking in. Some will sire good boars and others good sows, but it is rarely that a boar will sire those of both sexes that are really toppers. We think that Jumbo Jr. does it. A still newer boar in the herd is a son of Big Victor. He is Victor's Prospect. We did not like this boar so well a year ago, as we did the older boars of the herd, but he is certainly siring a great line of stuff, especially gilts. Another boar from the Simpkins herd was used last year, a former state fair winner, but his pigs are not so stretchy as those by the other boars, and do not appeal to the writer quite so strong, but they would certainly look well in herds that have not so much size as the Smith herd. Smith & Sons will sell a very choice lot of boars in the fall sale that will be held on October 29th. Herd-boar prospects are on hand in plenty right now. We forgot to mention that these gentlemen have a litter of four by the cham-

NEXT WEEK'S SALE PROGRAM

Wednesday, June 18, } Aberdeen Angus, M. A. Judy, Mgr., Chicago. Ill.

Thursday, June 19, } Holsteins, William Galloway, Waterloo, Iowa.
Ayrshires, William Galloway, Waterloo, Iowa.

pion Columbus. The litter is not large, but the pigs are very good. Should you write Smith & Sons, kindly mention this paper.

Held Bros. Offer Bulls.

On page 22 Held Bros., Hinton, Iowa, advertise a choice lot of young Scotch and Scotch-topped bulls for sale. These are sired by Victor of Wayside 2d, a son of the well-known show and breeding bull, Money Musk, and Sir Valentine, a son of Gloster Valentine. They have some very choice Scotch bulls that are good enough to head any herd, and some good Scotch-topped bulls that many breeders and farmers can afford to buy. These breeders are very reasonable in their prices on these bulls and there are certainly some good bargains among the bunch. They also have some splendid German Coach stallions that they will sell. They have more good German Coach stallions and mares, most of which are imported, than any other firm in the West. They can spare a few good young stallions and they are pricing them where they will sell. These breeders have 200 Poland China spring pigs and they will be right for the boar trade the coming fall. They also have some good Shropshire sheep for sale. At the present time they are desirous of selling the young bulls and if any of our readers want a bull it will pay them to visit the herd of Held Bros. and make a selection. When writing them kindly mention The Homestead.

Low Farmers' Vacation Fares.

Farmers who wish to make an extended vacation trip may serve their purpose by taking advantage of the low rates offered by the Canadian Northern Railway in the announcement which appears on page 5. The prices quoted are unusually liberal even for vacation time railroad fares. In addition to that they give the vacationist an opportunity to inspect the splendid lands thrown open by the Canadian Northern Railway and to be obtained at an insignificant cost to actual settlers. The prices named in the advertisement are round trip figures and good for twenty-five days with stop-over privileges. Stops may be made at Chicago, Des Moines, Minneapolis, Sioux City, or any of the prominent stations named in the advertisement. As a preparation for this trip it would be well to obtain the free books mentioned in the advertisement. They give a lot of information that is of special interest and would be of much benefit to those who make the trip. Send for these books to R. N. Bell, General Agent, 66 West Adams St., Chicago, Ill.

Grant Lynn's Durocs.

We recently visited the herd of Grant Lynn, Spirit Lake, Iowa, and found him with eighty good spring pigs and a lot of good fall boars and sows. His old boar, Evergreen Chief, looks good to us and he is one of the best boars today in northern Iowa. He is one of the largest and best sons of Charlie Veak's old High Col. and he is out of a daughter of Model Prince. He has proven an unusually good sire and some of the best things he has in his herd are by this hog. He has two other good boars in G.'s Crimson Wonder, a son of Crimson Wonder Again, and Lynn's Golden Model, a son of Golden Model 31st. His spring pigs are sired by these three boars and he will be well fixed for the fall trade. He has nineteen head of fall boars and we have not seen a better bunch this spring. These are all sired by Evergreen Prime and King's Defender. There are a lot of really choice herd boars among these and he will have them at Des Moines if nothing happens them. He might be induced to sell some in the meantime and the man that is looking around for a herd header will do well to drop in and see him. Later in the season we will tell you more about what he will have for sale.

G. A. Kissinger's Polands.

A crop of very choice pigs, although somewhat limited in numbers, is being raised by G. A. Kissinger, Milford, Neb. Mr. Kissinger has a herd of Poland Chinas that the writer is glad to recommend to readers of The Homestead. He has in very truth one of the very choice herds of the great hog-producing state of Nebraska. His sow herd is one of the best we have seen to date, and as to boars, he is lined up in a splendid way. He has the old boar, Hillcroft Model, and last fall he purchased the futurity boar, Big Martin, of Mr. Lonergan. Big Martin is coming along nicely. He will have a hard job equaling the older herd boar, but he may do it. At any rate, he is doing well at this time. Big Martin is by Big Tom, the 1911 champion at the Nebraska State Fair. Big Tom was bred by Thos. A. Shattuck and was sired by Momentum, by Pan Ex. The dam of Big Tom is Anna Belle by Belle Metal. A full brother to Big Tom was the top boar in Shattuck's last fall sale and went to head the herd of W. J. Graham, Howard Lake, Minn. We simply cite this breeding to show that Big Martin has it in him to make a great boar. However, Hillcroft Model is one of those big, heavy-boned, smooth boars that one cannot help but like. He is also the sire of the greater part of the excellent herd of sows that we just mentioned, and it is really as a sire that he rates high. Mr. Kissinger has a few fall boars, real good ones that he can spare, and he will have a nice bunch of spring boars a little later on. Mr. Kissinger has a litter out of a sow bought in the Pfander sale that are looking good. They are out of a daughter of Long King and are sired by King of Wonders by A Wonder. This boar is rated very highly by Pfander & Sons, and these pigs look like they would make good hogs. Keep the Kissinger herd in mind and if attending the Nebraska State Fair see his exhibit. The junior champion sow at the state fair a year ago was bred and shown by Mr. Kissinger.

Lightest Weight **SUCCESSFUL BINDER ENGINE** ON EARTH

Harvest YOUR grain with our WINNER-WONDER horse-power engine. Cuts, elevates, binds grain. Only two [illegible]

Cushman Mfg. Co., 804 N. Third, St. Joseph, Mo.

Hurless' Chester Whites.

On this page Harry Hurless, breeder of Chester White hogs, Ogden, Iowa, informs our readers that he has now for sale a number of excellent fall boars weighing from 150 to 200 pounds each. They are the get of Mahaska Boy, he by Grand Leader and representing a prize-winning strain of blood. Mr. Hurless also has a large number of spring pigs which are now old enough to ship. These are by three different sires. He believes them to be the best lot he has ever raised. They are from littlers of eight to fourteen. Write for particulars.

Rude & Son's Durocs.

The firm of A. Rude & Son, Moorehead, Iowa, report 130 spring pigs and a number of good fall boars on hand. They are using three good boars in their herd, viz.: High Col., a son of W. B.'s Model Chief and he was a first-prize boar at Des Moines, Hamlin, Huron and Sioux City last year and he is doing great work for them as a breeding boar. Then there is old Iowa Col., (a little better than a half brother to Col. Willetta), and he has also been a splendid breeding boar in this herd. Rude's Crimson Wonder I Am, is a son of that old state fair champion, Crimson Wonder I am, and he is getting them some good pigs. They will not make a fall sale, but they will make a winter sale as usual at which time they will have some good sows to offer the boys.

Farver's Big-Type Polands.

Among the many good herds of large-type Polands in northwest Iowa is that of E. E. Farver, Ocheyedon, the owner of that 1,000-pound boar, Farver's Goliath. This hog is a son of Chief Price Jr., and is out of Model Crow and he is a boar that will beat the 1,000-pound mark with a little meat on him. There are few that have anything on this boar when it comes to size and smoothness. He is assisted by E.'s Defender, a son of Big Defender and the most of his spring pigs are sired by these two boars. He has a choice lot of full sows sired by Farver's Goliath, that are all right, and he is holding a lot of these for brood sows in his own herd. His spring pigs are doing well and he is going to have some nice boars for his fall trade, and there will be some splendid herd boars among these. The Farver herd has become recognized as one of the best today in northwest Iowa. This fall when you are going to want a boar pig remember the Farver herd, because he will have something that all the boys can use.

Powell & Son's Short-horns.

One of the best Short-horn herds today in northcentral Iowa is owned by H. H. Powell & Son, Linn Grove, and it is made up almost entirely of Scotch cattle. The two bulls at the head of this herd would be a credit to any of the more noted herds in this country, and when you look this herd over you will have ample evidence of their ability as breeders. Red Archer 278105 is the senior bull in service, and he is a son of that noted champion, Ceremonious Archer, a bull that Senator Frank Lowden thought enough of to pay $5,000. He is unquestionably the best son of Ceremonious Archer that has been used in any western herd. His dam is Pure Grove Meldred 3d, a daughter of Imp. Marquis of Zenda, regarded as one of the greatest show and breeding bulls used in Canada the past ten or twelve years. This bull tips the scales at 2,300 pounds in breeding condition and while a large bull is low set and close to the ground and he has proven a most excellent breeding bull in the herd. A great many of the females in the herd are daughters of Red Archer. Their other bull is King Cumberland 2d, a junior champion at Des Moines in 1911, and he is a full brother to the grand champion bull, King Cumberland, that went to the Elmendorf Farm at $5,000. Both of these noted bulls were bred by the Powells and they still have Miss Walpoole, the dam of these two noted winners on their farm. There are about ten or twelve daughters and granddaughters of Miss Walpoole in the herd, together with her great prize-winning son, King Cumberland 2d. They have reduced him in flesh since he was at Des Moines, but he still looks the same to us and were they to take him out again it would take a good one to beat him. As a breeding bull he is doing wonders and his calves now on the place are as good as you will see anywhere. They are uniform, well developed and are of the type that the most progressive breeders are now looking for. In other words, this great son of Cumberland's Last and Miss Walpoole must be regarded as one of the best bulls used in the West today. After you look his calves over in the Powell herd you will have to give it to him. The older matrons now doing service in this herd are daughters of such well-known bulls as Fitz Eustace and old Red Knight, Imp. Gay Lathario, Imp. Fancy's Pride, Superb Goods and other noted sires and represent such well-known Scotch tribes as Duchess of Gloster, Miss Ramsden, Lancaster, Early Bird, Bonnie Bell and other popular tribes. Just now they have a good yearling white bull for sale in Lindwood Cumberland, a son of King Cumberland 2d, out of Miss Ramsden by Ceremonious Archer. His mother is a half sister to Miss Walpoole and he is a well-bred Miss Ramsden. He is a splendidly balanced bull from end to end and will make a 2,200-pound bull when matured. Some breeder who is looking for a right good young bull to head their herd should go and buy this fellow. When writing Powell & Son kindly mention The Homestead. See this page.

ANIMALS AND THE CHILDREN.

To the Editor of The Homestead:

It hardly seems that it would be necessary to remind parents that they should impress it very forcibly on their children that they must never, under any circumstances, fasten the leading strap on an animal to themselves. Yet I have known of children who were dragged to death by frightened animals because they had the strap fastened to their waist. It is almost as bad to have it wrapped around their hand, for in an emergency there is seldom time to unwind it and the results are as bad as if it was fastened to the body.

I grew up on a farm where several horses were raised, and was out among them from the time I could navigate. They seemed to know us and we were never hurt by them. I say we, I mean the other members of the family, but we were taught that while things were this way ordinarily, we must always avoid unnecessary risk.

Another thing that should be kept close watch over is the treatment of the sheep. It is very funny for some men to double up their fists and teach a lamb to butt it so with his head. One may have lots of sport with him, but that lamb grows up and does not forget this early training. Sometimes they acquire the habit without teaching. Anyhow, look out for them. A full grown buck hits hard, many times hard enough to knock a man down, and a child is an easy mark. I speak this from experience, for I have met them myself when a child.

We had one when I was a child who developed the habit, how, we never found out, for father never allowed them bothered. It was customary for me to go after the cattle, while my father took care of the team and he would meet me at the head of the lane. On this one night my younger sister went with me.

The cows were nearer the house than usual, so it only took us a few minutes and father, judging from the time it usually took us, ran in to see how the baby was—who was ill. As a result we came through the lane into the barnyard before he came out, and there met the flock of sheep. In a twinkling the buck was upon me. We had some stone fence, and the number of times I went head first into that fence were more than a few. Childlike, of course, I always got up on all fours, and there's nothing much more aggravating to a sheep than to have one back up to it. He would have butted me to death in a few minutes had not little sister run screaming to the house and father came flying out to see what was the trouble. As it was I lost three teeth and the number of black spots had to be enumerated with more than one figure. I well remember the next day when some children came to see me, and mamma came to the couch and told me I had better get up, how surprised I was that I could even walk.

Some will probably say that father was careless to allow us to go out among them, but he always taught us to look out and try to keep in the clear at all times, if possible. No evidence of crossness had ever been seen in any of the sheep before, and this one was thought perfectly safe. However, I learned that it was bad form to have my back toward a sheep and it is well to teach children as much, even though your sheep are as gentle as ours appeared to be.

Another thing that should be discouraged on the farm is the wearing of bright red. I well remember how we girls at home used to want so much to wear red dresses—other children did—but we were never allowed to, because of the stock. I have seen a bull, who, if he saw a red garment passing in the road, would bellow and paw and tear the ground as only an angry bull can. Turkey gobblers, too, object very seriously to red, and one often hears of a gobbler's mauling a little child.

If a grown up person carelessly allows these things to happen he alone is to blame, for he is supposed to have common sense, but it seems too bad to allow little children to be dragged to death or killed for lack of warning on the part of the parents. Of course, in the majority of cases, people do not realize the danger themselves, or there would be no delay in teaching such dangers to the children.

I could call the name of a ten-year-old boy who only last season came very near being killed by such an accident. He was holding a horse for his elder brother, at home, by the roadside. Not thinking he looped the rein around his hand. Presently an automobile flipped around the corner and was so close that the horse was so frightened before the elder brother could get to him that he began to jump and jerk and run. He dragged the boy quite a distance and, had the rein not broken, would have killed him, no doubt. Caution the little ones about such in due time, and you may save a limb or even the life of some of them.

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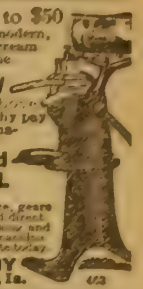

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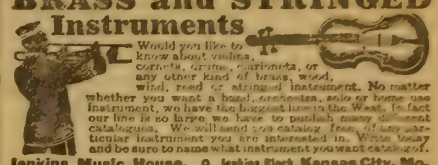

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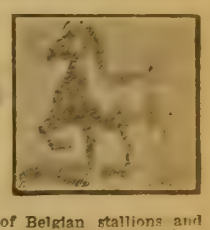

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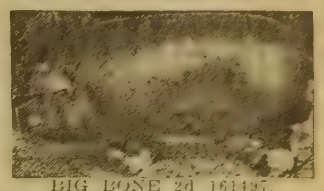
We will refund your money if they die from cholera. We guarantee them to be breeders; we guarantee safe delivery and record everything; have orders booked now from 9 states. If you want the biggest of the breed send us your order. We guarantee satisfaction.

W. H. COOPER - - - - - - - - - - HEDRICK, IOWA.



BIG BONE 2d 161197.

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25** to **$35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

C. F. Adams' Big-Type Poland Chinas

I WILL sell spring pigs sired by my great herd boars, **Big Halvor** (generally conceded to be one of the very best big-type boars in Iowa), **Maid's Halvor 1st,** a son of **Big Halvor** and out of the mammoth sow, **Long Maid,** and one of the grand young boars of the breed, **Mammoth Jumbo,** a son of the noted **Big Jumbo** and **Grand Chief,** bred by John Miller. These pigs are out of a herd of

Sows That Cannot Be Surpassed for Size and Quality

These sows are bred in the purple, many of them being sired by the great sire, **Big Halvor,** others by **Coming Wonder, Big Nelson,** etc. I know I can please you in a pig and that you will be more than pleased with the manner in which they develop. These pigs will be worth three and four times what I am asking for them within the next year. Write me for prices, mentioning Homestead
C. F. ADAMS - - - - - - - - - - - - - - - - - - OWASA, IOWA.

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

25--Big-Type Poland China Sows For Sale--25

These are all strong in the blood of the strictly big kind and are bred to the 900-lb. Mouw's Big Sioux for fall litters. I am also offering to sell my splendid 2-year-old boar, Smooth Jumbo. Write me at once and mention The Iowa Homestead. Address - - - **GEORGE GLYNN, Sioux Rapids, Iowa.**

AUGUST GORDER'S POLAND CHINAS

A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.
AUGUST GORDER, PLATTSMOUTH, NEB.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

FAULKNER'S SPOTTED POLANDS

THE old original big-boned spotted kind. Now booking orders for spring pigs to be shipped when weaned. Pairs or trios, no kin. Everything Registered. For the kind of our forefathers address
Homer L. Faulkner, Box 117, Jamesport, Mo.

BIG-TYPE POLANDS

OF the thick, smooth, heavy-boned kind. Fall and spring boars and gilts sired by Dale Expansion 190135. Also choice sows bred to him for fall litters.
F. E. JACKSON, HURLEY, SO. DAKOTA.

BIG JUMBO FOR SALE

BIG JUMBO (by J.'s Jumbo) is for sale. An excellent breeder and fit to head a herd of pure-bred Poland Chinas. Farmer's price will buy him.
H. C. Meinhold, Stromsburg, Nebraska.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks. James H. Duncan, Lone Oak Farm, Lineville, Ia.

When writing to advertisers please mention The Homestead.

LINE BRED EXPANSION BOARS

SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address
C. B. Kneer, Stromsburg, Nebraska.

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to H.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.
L. S. Fisher & Son, R. 1, Edgewood Iowa.

When writing to advertisers please mention The Homestead.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address
Pitz & Adams, Plattsmouth, Nebraska.

November Boars

WEIGHT 175 to 250. Price $20 to $30. All sired by Orange Boy. Some herd header prospects.
M. G. Arnold & Son, Strawberry Point, Iowa

CHESTER WHITE SWINE.

G. O. SATRE'S CHESTER WHITE FALL BOARS

THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two-year-old boar, Royal Banner 27289, by Perfection by Climax. Descriptions and prices furnished on request.
G. O. SATRE - - - - JEWELL, IOWA

Orme's Prize-Winning Chester Whites I am offering 4 all boars, 10 fall sows. $25 ea. A. C. Orme, Nodaway, Ia.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

CHESTER WHITE herd boars and bred sows for sale. One boar is out of grand champion sow Iowa State Fair, 1912, and sows are bred to him. Address G. H. Tutt, Marathon, Iowa.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. Fred Ruebush, Sciota, Illinois.

When writing to advertisers please mention The Homestead.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

HEREFORD CATTLE.

50 HEAD HEREFORD BULLS FOR SALE 50

WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.
A. SPOONER & SON, - - MONDAMIN, IOWA

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead, **N. D. MYSENBURG, David City, Neb.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, NEWTON, IOWA.

Hereford Cattle Duroc Jersey Hogs

STOCK for sale of both breeds at all times. Write or come and see me. Address **A. F. HAGER, AVOCA, IOWA.**

Double Standard Polled HEREFORD BULLS

Yearlings and good ones. They will suit you.
H. D. CLOKE - - LUCAS, IOWA.

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address
HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

HORSES AND JACKS.

MAASDAM & WHEELER
FAIRFIELD, IOWA
PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays Still on Hand and for Sale This Spring at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

OAKLAWN STOCK FARM
Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.
GEORGE EGGERT NEWTON, IOWA

FAIRVIEW STOCK FARM
PERCHERONS, BELGIANS, SHIRES, MAMMOTH JACKS and JENNETS

SOME extra good home-bred stallions, Percherons and Shires, pasture raised and in splendid thrift. The sort to do a lot of hard service. A few extra high-class big jacks 3 to 5 years old and 30 jennets, all ages. Democratic prices on this stock for next 30 days. Want to close them out. Address, mentioning The Homestead.
HENRY BECK, LITCHFIELD, NEB.

FAIRVIEW JACK AND JENNET FARM

60 HEAD MISSOURI AND KENTUCKY BRED. A strictly high-class lot of Mammoth Jacks and Jennets, 14½ to 16½ hands high, with plenty of bone and quality. Everything guaranteed as represented, and priced right. Address
J. C. HUCKSTEP, BOLIA, PIKE COUNTY, MISSOURI

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

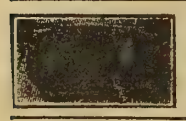
PERCHERONS

Eleven home-grown 3-year-old stallions, exact wt. 1,840 to 2,090 lbs. Bone to spare. June 12th these and youngsters for sale. The **biggest** Percherons pay you best. Drop a card for details.
FRED CHANDLER
Route 7,
Charlton, - Iowa

HAMPSHIRE SWINE.

Sunny Slope Hampshire Swine

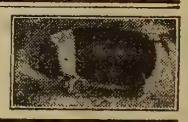
200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.
C. A. BROOK, WASHINGTON, IOWA.



PRIZE-WINNING HAMPSHIRE SWINE

I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE



HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 100 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. CLAYTON MESSENGER, KESWICK, IOWA.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address
HUGHES ATKINSON MT. STERLING, KENTUCKY

R. L. BOLLMAN, COAL VALLEY, ILL.
Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. R. L. BOLLMAN, COAL VALLEY, ILLINOIS

WAYSIDE HERD OF HAMPSHIRE SWINE

WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today.
MIKE SHARP & SONS, COAL VALLEY, ILLINOIS

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
H. D. DE KALB, DE KALB, IOWA.

Valley View Hampshires Nothing left at present but fall pigs. Address Fred Wheeler, St. Charles Ia.

MULE-FOOTED SWINE.

Mule-Foot Hogs
Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

350 BIG-TYPE Mule-foot hogs, all ages. America's champion herd. Ponies and White Leghorn eggs. Address J. Dunlap, Williamsport, Ohio.

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GALLOWAY CATTLE.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address C. S. Hechtner, Charlton, Iowa.

POLLED DURHAM CATTLE.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan, Scotch bred 3 yr. olds, and calves 6 to 12 mos., choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

When writing to advertisers please mention The Homestead.

HORSES.

FRANK IAMS
IS RETIRING FROM "HORSE BUSINESS"
CLOSING OUT All his Show and Business Stallions at..... REDUCED PRICES

Iams is making a "clean up" of his horses. All will be sold at "some price." He has his "Paris Winners and Best Stallions" in his barns. Prize Winners, $1,000.00 and $1,200, some higher. His 1913 "show" stallions must be sold in 30 days.

Iams is making **prices $200 to $500 "less than formerly"** on **each stallion** to make a **"Quick Clean Up"** (In next 30 days)

Paris Prize Winners at Cost in France

Buy a ticket to **"Iams town"** and **take advantage of Iams' "Reduced Prices."** Never were such choice **"Big Prize Winners"** offered at **such "Big Bargains"—all must be sold.** They are **"Model Drafters."** Iams' **"Old Customers"** make his **"Best advertisers."** His **"Percheron Stallions"** are the **very best he ever imported.** They are of **"Big Size,"** large **bone, model, smooth "Drafters"** of **quality,** fine **form, finish and style, fast movers.** Among them are several

"PRIZE WINNERS AT PARIS"

NOGENT-le-ROTROU and **CHARTRESS** (three largest shows of France). **They are all fully acclimated and in the "Pink of Condition." They were bought to sell. All must be sold at some price.** I know **France and leading breeders there. I speak the languages and know how to "Buy Horses"** at **"Big Bargains,"** and I **divide "The Bargains"** with **my customers. Iams has a choice collection of**

IMPORTED PERCHERON STALLIONS

3 to 6 years, "Registered and Inspected" by **Governments of France, weight 1,800 to 2,500 lbs. All "Branded," Approved, "Registered and Inspected"** by **Governments of France and U. S. and Certificates "Stamped" O. K. All inspected by a Nebraska Deputy State Veterinarian and Certificates of "Health and Soundness" are given** with **each Horse.** Iams sells

IMPORTED WINNERS AT $1,000 AND $1,400

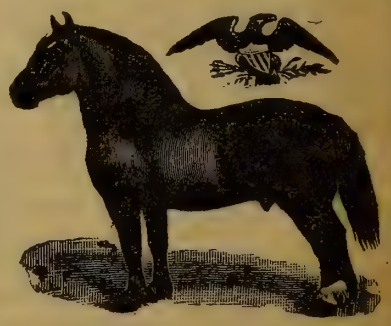
(few higher.) **Terms cash,** or **one year's time** at **8 per cent bankable note, one and two years' time Land Security at 6 per cent; $100 less price for cash than time. Iams pays freight and buyer's fares, gives 60 per cent breeding guarantee;** can place **$1,500 insurance. Iams backs up his ads** with a **$500 guarantee** that you **find the Horse as represented. Write for Horse Catalog. It has a $1,000 "Bargain" on each page.**

REFERENCES—First National and Omaha National Banks, Omaha, Neb. Packers' National Bank, South Omaha; Citizen's State, First State and St. Paul State Banks, St. Paul, Neb.

ST. PAUL, NEBRASKA.

Special Sale of Percheron and Belgian Stallions
For Next Thirty Days

New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.



HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

Purchase Percherons.

There is a fundamental reason why the breeding of draft horses will continue profitable.

From 1900 to 1910 the population of the United States increased 21%. Horses increased only 8%. Cattle decreased 8%, hogs 7%, sheep 14%.

This means increased tilled acreage and increased demand for horse power.

For full information address Wayne Dinsmore, Sec'y, Percheron Society of America, Union Stock Yards, Chicago, Illinois.

STALLION colts for sale.—Two 2-year-old French Draft colts, cheap for cash. Sire Chacal (58077) 41415, 1st dam Toddy 12164, 2d dam Primrose 6495; sire Chacal (58077) 1st dam Lucy 12162, 2d dam Doll 13061. Fred Galliers, Albia, Ia.

PALESTRO I. 52027(67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret(47526) by Theudis, by Besigue, by Brilliant III. and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Ea. a splendid animal and offered at extremely low prices. Call or write V. W. HARMS, Fairbury, Illinois.

SHETLAND PONIES

STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

FOR SALE Two Shetland pony stallions, one and two years old, full brothers, matched. weight of eldest 560. S. A. Wolcott, Gilmore City, Ia.

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

SHETLAND PONIES.

THE little gentle kind. One of the largest herds of registered ponies in the state. Send a two-cent stamp for price list and catalog that contains several pictures.
F. P. HEALY Bedford, Ia.

Stooker's Stock Farm

OFFERING just now some very choice Percherons, A pair young stallions and a few mares. Write for full information. Address
F. A. STOOKER, Dunbar, Nebraska.

AN EXTRA LOT OF YOUNG CLYDESDALE STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

PERCHERONS Imported and home-bred stallions and mares from $200 to $900 each. Address H. REDENIUS, RUSHMORE, MINNESOTA.

When writing to advertisers please mention The Homestead.

The Iowa Homestead

VOL. LVIII. NO. 25 DES MOINES, IOWA, JUNE 19, 1913. WHOLE NO. 2906

Reading Room
Agricultural Bld
Urbana Ill
Comp

$2.00 to $12.00
For 20 Minutes' Work!

You know that every man who has anything to do with the *making, selling* or *repairing* of an automobile *MAKES BIG MONEY.*

Well, here is a chance for YOU to get in on the same kind of a good thing.

If you have any "get up" in you, you can easily clean up $10 per day.

And the beauty of it is, you don't need any experience nor, in truth, any money to speak of. A ten-dollar bill just about covers the cost of your equipment.

"Sounds most too good to be true," you are saying.

But don't judge too soon. First send the Coupon below and get a detailed explanation of this Wonderful Offer. *Then see if you ever before saw such a money-making opportunity.*

Our Agents Make $10 Per Day!

We know YOU can make big money out of this because hundreds of other men, no smarter than you, are now doing it. They are making $10, $12, $15 and even $20 a day.

Yet some say they first answered our advertisements more out of curiosity than with the expectation of really getting hold of a small fortune.

They were agreeably *SURPRISED* when they found what we had to offer them. You too, reader, will be surprised at our Proposition, for it is quite impossible to picture in mere words the bigness of this offer.

How the Money is Made

Here is a very simple looking apparatus. Weighs less than four pounds. No bigger than your two fists. You can easily carry it any place. It is the celebrated POSITIVE STEAM TIRE VULCANIZER—the most *wonderful* device ever designed for repairing automobile tires.

You—anybody—can operate it.

Here's about all there is to it:

Lay a piece of fresh rubber over the spot to be repaired. Then clamp the Outfit to the Tire, pour a little water in one compartment and a little gasoline in another. Then light it. In 20 minutes the tire is repaired and is as good as new.

You see, the new piece of rubber is welded, by heat, right to the tire. The patch can never wear out. You can repair *inner tubes* and *outside casings* with the POSITIVE STEAM VULCANIZER.

And remember, it's all done in 20 minutes.

What do you get for the job?

Anything from $2 to $12. Do you know of any other profession that pays as much as $2 for 20 minutes' work?

Plenty of Work!

Unless you have thought about it before you don't realize what a tremendous lot of tire repair work is done every day.

There are nearly a MILLION AND A HALF automobiles in this country. That means SIX MILLION TIRES now in use. And every one of those six million must be repaired from time to time.

Most of those tires are being used by farmers, as you know. You know lots of farmers who own automobiles. Those men are now shipping their damaged tires to city shops for repairs. Not because they *want* to, but because they have always *had* to. You can be sure that not one of those farmers likes to pay for express charges or repair prices such as city garages charge. Neither do they like to wait for days and weeks to get their tires back.

Automobile owners in your locality will be tickled to death when they find you ready to do their tire repairing. *They'll come to you to save time and trouble.* And you can accommodate them.

Perhaps you yourself own a car. If so, you know what a nuisance and expense it is always to be sending tires away.

A S-T-E-A-M Vulcanizer

This is no ordinary hot air vulcanizer. It's the S-T-E-A-M type. Works on the same successful principle as the vulcanizing machines in big city garages and big tire factories. There is nothing else like it outside the big cities.

Yet it is *small, light*—and *very inexpensive.* It's so *fast* and the work is so *perfect* that it amazes all who see it.

Send Us the Coupon

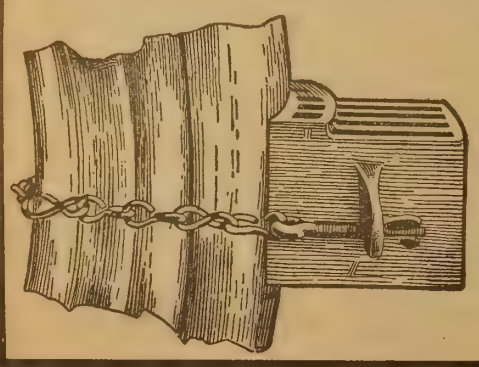
Now if this big Money-Making Offer interests you, *don't wait a week or two before investigating it.*

Send in the Coupon at once and thus get started right away. It's just as important to get a quick start in a business race as in a horse race or any other contest.

Send us the Coupon and we promise you a *REAL* Money-Making Offer—perhaps the best you ever saw or *will* see for years to come.

If the Coupon is mailed today, you will get our Special Proposition BY RETURN MAIL.

Clip and Mail at Once!



THE POSITIVE TIRE VULCANIZER CO.

415 Rock Island St.

Davenport, Iowa

References . . . . Any Bank in Davenport

At the left we show the outfit when in operation, only a portion of tire is pictured. The Positive S-T-E-A-M Tire Vulcanizer weighs only 3 pounds

Mailing Coupon

THE POSITIVE TIRE VULCANIZER CO.
415 Rock Island St.
Davenport, Iowa

Please rush to me by return mail the Details of Your Money-Making offer.

Name.....

Address.....

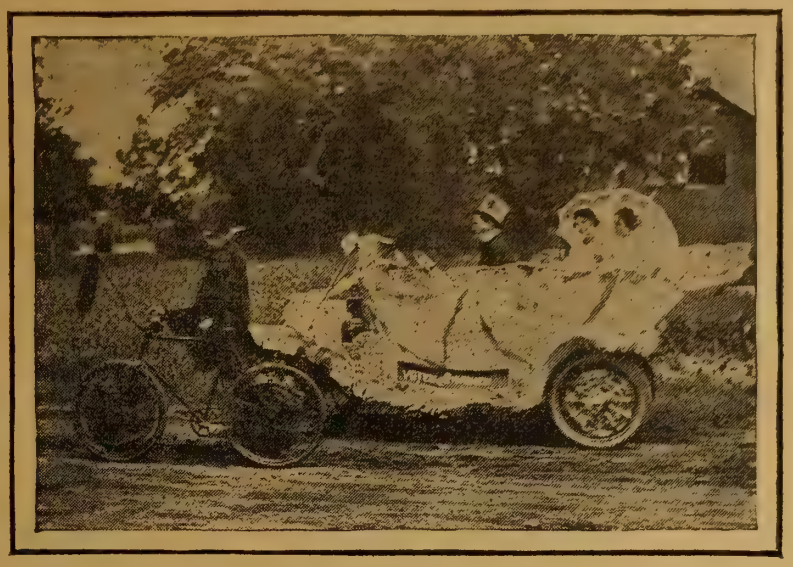
The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 19, 1913.

PLAY DAYS FOR FARM WORKERS

How a Series of Get-Together Festivals is Bringing Townspeople and Farmers into Closer Friendly Relationship and Proving Mutually Profitable.

PROFITABLE farming depends upon many things, none more important than these: the contentment of every member of the farm household, and mutually pleasant and profitable co-operation between farm dweller and nearby town dweller. Any scheme or plan which can provide both of these important factors is worthy not only endorsement but emulation.



FIRST PRIZE IN AUTOMOBILE PARADE AT ALDEN'S 1913 EGG DAY.

In order to bring the farmer and the townsman into closer and more pleasant relationship there have sprung up, within the last few years and quite generally throughout the grain belt, a variety of celebrations or "days" which depend for their success upon co-operation between the farmer guest and village host in the gentle art of giving and having pleasure. These events are not inspired by mercenary motives; the farmer guest is every bit as welcome when he leaves his pocketbook behind as when he brings it with him, full to bursting. The town host has learned that there is an inevitable, although indirect profit sure to accrue when the relations between him and the farmers of the immediate vicinity are so friendly as to inspire more frequent visits, when the list of purchases is first submitted to the storekeeper in the nearby town instead of being sent direct to the mail-order house or to the city department store. The farmer has learned that he is not always looked upon, in village or city, as a sheep led to the shearers; that he is welcome as a good fellow, well met, and that the pleasure which such town celebrations give every member of the farm household furnish that necessary break in the routine of work which makes for willing service for all, the entire year around. The occasion for bringing farmer and townspeople into closer and more friendly relations may be, and is, given various names, but the underlying principle is the same: mutual enjoyment. In one town it takes the name of Egg Day; in another Watermelon Day; in another (where the sturdy Dutch predominate) Sauerkraut Day; in another (where beets form the greater part of the produce raised) Sugar Beet Day; in another Bean Day, and so on throughout a long list, varying according to the principal crop of the vicinity or the principal amusements of the people dwelling thereabout. Take the little town of Alden, Iowa, for example, a typical country town of 800 population, set down in the midst of a prosperous agricultural vicinity and dependent upon farm patronage for its perpetuity. Anything which will tend to bring the farmer into town oftener, which will induce him to buy his staple necessities in Alden (rather than in the larger cities of Marshalltown, Fort Dodge, Waterloo, or Des Moines) necessarily appeals to the storekeeper. On the other hand, anything which can give him innocent pleasure or amusement in Alden, easily accessible to all members of his household, appeals to the farmer, for it is not every tiller of the soil who can attend the state fair or take vacation trips, even in these piping times of agricultural prosperity. And so it is that Egg Day has come to be an annually recurring festival of commingled farm and town fun. It is a festival, pure and simple, for no one seeks financial gain. At one o'clock on Egg Day all of the stores of Alden are closed and merchants and townspeople generally join with the farm visitors in participating in the festivities. The program

(Continued on page 9.)

PRESIDENT TAFT WAS PRESENT ON WEBSTER CITY'S LAST WATERMELON DAY AND SAMPLED A FINE MELON.

EGG DAY—ALDEN'S ANNUAL GATHERING OF FARMERS AND TOWNSMEN, IN SOCIAL FELLOWSHIP, PROFIT AND PLEASURE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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A WORD ON CULTIVATING CORN.

The following communication from Mr. A. A. Burger, formerly of the Iowa Agricultural College, and now farm adviser for the Blackhawk County (Iowa) Crop Improvement Association, deals with the important principles that should be kept in mind:

To many, the cultivation of corn is a simple operation. Practice has made it so, but in the very reason of its simplicity is to be found the reason for its improper practice. As with many farm operations, they are done in a certain way because they always have been done in that way, with the question of the reason why, or what the ultimate effect might be, never even receiving a passing thought.

Cultivating corn is one of the most careful operations of the farm. It is also one of the most important. It requires over two months of every year in the production of our principal money crop—more time and more labor than any other single phase of our farming operations. It therefore deserves more attention. Whether it is to be attributed to the lack of a better understanding of what is best or whether it is a matter of practice—a failing to do what we know is best—is immaterial. Hundreds of acres of Iowa corn could be increased in yield if better cared for. It need but be said that we may find abundant proof in every locality.

Deep cultivation is a common practice. For the first cultivation this is desirable, and also for the second. It is desirable, also, to get as close to the plants as possible. This keeps the soil mellow below and destroys weeds which cannot be reached later. After the second cultivation, the root system of the plant is beginning to be established and to plow deeply or to allow the shovels to run too closely will destroy the root system, which cannot but impair the vitality of the plant, ultimately to reduce the yield. The last cultivations should not be more than three inches deep and in many cases it is advisable to use a surface plow. The trouble is that oftentimes our cultivators run much deeper than we suspect. Close examination will show that even at this depth, many roots are destroyed, especially during wet weather. However, this is not altogether avoidable if a good mulch is to be maintained. The essential thing is to watch the depth of cultivation, especially during the last cultivations. Avoid pruning the roots.

Just when to cultivate is a difficult question to answer. We cultivate during dry weather to conserve moisture and during wet weather to set free moisture. There are, of course, conditions such as rainfall, sunshine, etc., which cannot be controlled. As a rule, however, the soil should be cultivated after a rain, soon enough so that the surface will not crust to form clods. And under favorable conditions, land should not be plowed when moist enough to produce the same condition. There is a common opinion that during dry weather corn requires more frequent cultivation. We cultivate to destroy weeds, to keep the ground in good physical condition, to aerate the soil and frequently, early in the spring to kill insects. During dry weather if there are no weeds and there is a good dust mulch, cultivation is not so necessary. It is more often the case that after the corn is "laid by" the soil is beaten firm by heavy rains and a hard crust is formed. Many of the most practical farmers have found by experience that it pays well to go through between the rows with a single-horse cultivator. It is not impossible thus to increase the yield five to ten bushels per acre. In fact, it has often been done.

When, therefore, is corn laid by, and how many cultivations should it receive? Corn is best "laid by" when in the best condition to produce a maximum crop. This is not determined by the number of cultivations, not by the Fourth of July as the last day of grace, according to the practice of many, nor altogether by the size of the corn. Cultivate whenever cultivation is necessary to destroy weeds or to form a dust mulch. This will determine also the number of cultivations necessary. Often it would be profitable to cultivate corn after it has been "laid by."

It is true, as stated by Mr. Burger, that no hard-and-fast rule can be laid down as to the number of times corn should be cultivated. The important factor as the roots develop is to avoid disturbing them, and, secondly, it is most desirable to maintain the efficiency of the dust mulch as late in the season as possible. In this connection, however, one fact must be kept in mind, namely, that in the case of late-planted corn maturity can be hastened to some extent by laying the corn by early. In other words, it is possible in the case of late corn to do more harm than good by unduly lengthening the season of cultivation.

SCHOOL CREDITS FOR CHORES.

A country school-teacher in Oregon has proved himself a genius in the solution of the problem of bringing school and home closer together. He has devised a plan for giving country school children credits for chores done at home. Thus, for example, there is a ten-minute credit for every horse cleaned, a five-minute credit for every cow milked and a fifteen-minute credit for washing and drying the dishes. These credits mean something to the pupil, for when a child has 600 credits he or she is granted a holiday, not oftener, however, than once in twenty days. This keeps the attendance at school regular and at the same time puts a premium upon the humdrum routine work of the barn and the house which many school boys and girls shirk all too often.

Here is a complete list of the credits as given by this Oregon schoolteacher for home chore work:

Building fire in the morning, five minutes; milking a cow, five minutes; cleaning out the barn, ten minutes; splitting and carrying in wood (twelve hours' supply), ten minutes; turning cream separator, ten minutes; cleaning horse (each horse), ten minutes; gathering eggs, ten minutes; feeding chickens, five minutes; feeding pigs, five minutes; feeding horse, five minutes; feeding cows, five minutes; churning butter, ten minutes; making butter, ten minutes; blacking stove, five minutes; making and baking bread, one hour; making biscuits, ten minutes; preparing the breakfast for family, thirty minutes; preparing supper for family, thirty minutes; washing and wiping dishes (one meal), fifteen minutes; sweeping floor, five minutes; dusting furniture (rugs, etc., one room), five minutes; scrubbing floor, twenty minutes; making beds (must be made after school), each bed five minutes; washing, ironing and starching own clothes that are worn at school (each week), two hours; bathing (each bath), thirty minutes; arriving at school with clean hands, face, teeth and nails, and with hair combed, ten minutes; practicing music lesson (for thirty minutes), ten minutes; retiring on or before nine o'clock, five minutes; bathing and dressing baby, ten minutes; sleeping with window boards in bedroom (each night), five minutes; other work not listed, reasonable credit.

In addition to allowing vacation days for 600 credits, there are weekly and monthly contests to see which pupil can get the largest number of credits. The result is such an interest and enthusiasm about the chores as has never been kindled before. The plan seems to be altogether worthy of emulation. It provides the incentive for home work, recognizes that the boy or the girl who has to work at home should be honored and rewarded by the teacher for this handicap on his or her time and opportunity to study, and makes for a close, harmonious co-operation between home and school that can hardly fail of good results.

A HOUSEWIFE'S RELIEF AT THRESHING TIME.

It is a well-known fact that there is considerable rivalry among the households of almost every community in the serving of refreshments during threshing time. It has come to the point where it amounts to a real burden on many a housewife and it is not surprising to find communities in certain parts of the corn belt who are doing away entirely with what might be called the threshermen's picnic dinner. Instances are reported from Ohio and other cases are cited from Indiana where in the so-called "threshing rings" every man who attends a threshing brings his own dinner with him and goes to his own home for supper. This works no hardship on a single individual and it is a custom that we predict will spread very rapidly. Nearly all city workers are obliged to carry their midday meal with them when they go to work in the morning and the workers are in just as good health as those found on the farms. The practice means such an enormous saving of household labors that it should be taken up by every community when once attention has been called to it.

Possibly the subject is one that will bear discussion pro and con and we shall be pleased indeed to have our readers submit their individual opinions relative to the merit of the two plans of furnishing meals during threshing time.

GO SLOW ON PIT SILOS.

Some of the experiment stations in their publication of silo bulletins have given detailed information on the construction of underground or so-called pit silos. As the result of the distribution of these publications we predict that not a few farmers will make the very serious blunder of trying this type of silo.

To begin with the underground silo is not a wholly inexpensive proposition as one might first be led to believe. At the present cost of labor one can easily compute how long it will take a farmer and his hired help to dig a hole into the ground twelve, fourteen or sixteen feet in diameter and anywhere from twenty to thirty feet deep. After the pit is dug it may be found that the expense incurred has been a wholly useless one on account of seepage water. Even though the walls are cemented as they should be this will not keep the cistern silo dry. While it is true that ensilage is a moist product the plan has never been recommended to cure it out in a state of complete saturation.

We would advise those who are thinking favorably of the pit silo to carefully formulate plans in advance about getting the ensilage out of the pit when it is needed for feeding purposes. The hand-over-hand plan is recommended, but we venture to say that those who recommend this system have never tried it out, as it is both a man and time killer. Horse power can be utilized, but it is time consuming and a more or less troublesome task as compared with the system of throwing the ensilage down hill into a feed cart.

There is still another objection to these emergency ensilage holes. At filling time dangerous gases are generated and on account of these being heavier than air they remain in the pit. To enter a silo at filling time is therefore a dangerous undertaking—just the same, indeed, as going into a well filled with carbonic acid gas.

In our opinion the stations are not serving their constituents well when experimental makeshifts of this character are endorsed. There are certain types of silos that have been thoroughly tried out and have been found satisfactory in every way. A genuine service can be performed for the agriculture of the state if the station can in an educational way induce men to adopt the most modern plan of saving at least a part of the corn crop by, first, the erection of a type of silo that has stood the test of time, and by the filling of the same annually in accordance with the most up-to-date plans of ensilage making.

STAMPING OUT CHOLERA WITH SERUM ALONE.

Veterinarians are by no means agreed on a specific plan to be carried out in fighting the hog cholera scourge. In one camp we find those who believe that the serum-alone method is all sufficient, while the followers of another cult proclaim the efficacy of the simultaneous method, a plan that necessitates the use of virulent cholera blood along with the serum. Both plans are effective in their own way, the main question being which is the more expedient.

During this period of contention the presentation of a specific instance showing what a farmer has accomplished and the success he has had in the saving of his own herd will be of interest. We refer to the case of Mr. W. H. Cooper, of Keokuk county, Iowa. When cholera broke out in the Cooper herd a year ago a supply of serum was at once secured. Believing that as the disease was already present there could be no special virtue in the simultaneous plan, Mr. Cooper used the serum alone. The pigs were divided up into bunches and a sick hog was put in each lot, thus making exposure to the disease an absolute certainty. It was the belief in this case that a mild form of cholera would be contracted and the required degree of immunity therefore imparted. In this respect the results were all that could be desired. There was some loss, to be sure. Sows with pigs aborted, but in thirty days after the treatment the herd was in normal condition.

When the fall litters on the Cooper farm were from four to six weeks old the serum plan was again used and the excellent record made of not losing a single individual, although cholera-infected animals were again introduced into the herd in order to bring about a more permanent immunity. The two treatments referred to were made last year and the same plan was carried out with the spring pigs this year with an equally good record made in so far as the treatment was associated with loss.

While this plan is analogous to the simultaneous method of inoculation, as a matter of fact it is the belief of Mr. Cooper and the veterinarians under whom the work was carried on that the danger of loss from this plan of transmitting real cholera to the individuals in the herd is much less than where the blood of a diseased animal is injected directly into the circulation. If real cholera is contracted, and of this there is little doubt, the form it takes is exceedingly mild, and yet it seems to accomplish the desired end, namely, the establishment of a permanent immunity from the disease.

PARCEL POST AIDS RURAL MERCHANT.

Far from being of injury to the country merchant the parcel post is proving to be of actual and profitable service. A government investigator has been traveling through the grain belt looking into conditions and makes this unofficial report:

The large mail order houses are not getting the business away from the small country merchants under the parcel post system. Only the merchant who is satisfied to sit by the stove with folded hands all day is noticing any decrease in his sales. The parcel post is a blessing to the enterprising country merchant. Every up-to-date farmer has a telephone and he uses it in ordering his necessities. Formerly it was next to impossible for the country merchant to deliver goods to customers living more than a mile or two distant. And even that required the expense of maintaining a horse and wagon. The result was that the farmers either ordered from the mail order houses or went after the goods themselves, and they preferred the former method. Now the country merchant can deliver his orders within a radius of twenty miles or more by using the parcel post. The farmer would rather telephone his order than go to the trouble of writing to a mail order house, so the country merchant has the advantage. All the country merchant needs to do now to increase his business 25 per cent or more, and many of them are doing it, is to keep an extensive stock on hand.

The chief opposition to the parcel post, before the service was installed, came from country merchants and old established express companies. The merchant has already found that the service increases his business, rather than decreases it. What the effect has been upon the express companies we are not in a position to say, but if the experience of the country merchant holds good the express companies themselves are not much the loser, while the consumer and particularly the farmer is so much bettered by the innovation as to make it an unqualified success all along the line.

Reports having to do with the loss of swine by disease last year indicated that, taking the country over, the loss was 110.1 head out of each one thousand. Of course, in the principal hog raising states the percentage of loss was very much greater. Only four times in the last quarter of a century has the percentage of loss exceeded those above noted. In 1898 the loss was 100 per thousand. Since that date there was a steady decline in loss up to the beginning of 1911, when there began an increase of swine disease which was more rapid and disastrous than any previously recorded. The total loss for the year endig March 31st was 6,738,283 head. In Iowa the loss was 1,395,200 head, or nearly twice as many as in any other state. Missouri is credited with having had a more fatal form of disease than was known elsewhere.

THE STAVE SILO IN SUMMER.

The silo has now become so common that several may be seen from one viewpoint in most sections of the corn belt. We have counted as many as sixteen from no very high elevation. These are practically all stave silos and are empty during the summer months, so of course a few words on the care of the stave silo during the summer season will be of general interest.

We have found that the months of May and June are hardest on stave silos, simply because of the fact that they are quite apt to be neglected during the early part of the summer, when there are so many other matters coming up for attention on the farm. A stave silo dries out fast after it has been emptied when the sun begins to shine warm and there is a breath of heat in the southwest wind. The joints begin to open fast if the weather is warm and the wind drying soon after the silage has been taken out, and it is then the tightening of the hoops need attention. In reality, as fast as the staves shrink the hoops should be tightened. First of all, however, a chisel mark should be made on every lug before any tightening is done, then, before filling in the fall, every hoop should be loosened back to this mark. Those who are careful to do this have little trouble with warped and twisted staves or broken lugs or hoops when refilling and the moisture of the silage brings full pressure on the sides again. Even if the silo does appear loose when the hoops are loosened back to the mark, the moisture of the silage will quickly swell the staves tight.

But the main thing now is to keep the staves tight and all guy wires well fastened to good anchors. A large per cent of the stave silos that are taken down by wind would not go if every hoop was kept tight at all times, the guy wires well looked after and all covered with a good roof, well braced around the top to keep staves from caving in before the force of a high wind. Looking after the hoops on a stave silo every two weeks, during hot, dry weather, is a good habit to form.

CONGRESS NAMES ROAD COMMITTEE.

That the good roads problem looms larger than ever before is evidenced by the fact that the present congress has created a committee on good roads, for the first time in history. This committee immediately takes rank among the most important, having to determine the question of whether federal aid shall be forthcoming in the building of interstate roads and, if so, in what manner it shall be apportioned and expended.

It is of more than passing interest to note that a grain-belt congressman, Mr. Shackleford, of Missouri, has been chosen chairman of this important committee. This would seem to indicate that those in authority in congress realize that the grain belt is the section of the country where the biggest returns are to be expected from a federal investment in roads. At any rate, with a grain-belt man at the head, the committee's work should be of value to this particular section of the country even more than to any other.

An outline of what this new committee on roads may do is sent to us by a Washington friend:

This committee promises to be one of the foremost of the house for some time to come and to be much in the limelight. For some days, there has been a lot of pulling and hauling under the surface to get places on the good roads committee.

The awakening of interest on the subject of good roads is so marked in most of the states that scores of members of the house would like to have a finger in the business of shaping up highway legislation. Hitherto, the subject has been considered in an incidental sort of way by the postoffice committee. Now, with a great committee on good roads created, it will be gone into by that body in exhaustive fashion and will no doubt receive more enlightened attention from the house than it has ever received before.

The committee will undoubtedly take prompt steps for comprehensive study of the good roads problem. And while there are many public men who contend that federal aid to road making would be a great mistake and would lead to a riot of extravagance and that it would be much better left to the states, there are few members of congress who are not interested in the subject and glad to have a committee established to have jurisdiction of it. Moreover, there are distinct signs that this congress is going to embark in legislation for federal aid to good roads on a large scale. The strong demand for it from the South is one of the factors which will influence a democratic congress to such a decision.

With Senator Bourne, of Oregon, proposing a three-billion-dollar bond issue for a gigantic road-building campaign (the federal government to loan the money to the various states on their fifty-year 4-per-cent bonds) and congress appointing a committee to discuss ways and means of co-operation between nation and states, the prospect of far-reaching and systematic progress in road building in the near future is brighter than at any time in the past.

MORTGAGES AND FARM AUTOS.

It is difficult for the average easterner to realize the extent and stability of the agricultural prosperity of the grain belt. Stories of farming success are looked upon, all too often, suspiciously and even incredulously, as though they were so exceptional as not to show a wide-spread average of prosperity. The reason is that the East is a section of extremes, immense riches on the one hand, dire poverty on the other; while the West (and particularly the grain belt) is a section of high general average of prosperity.

The difficulty which the easterner has in getting at this difference is well shown by an item in a Topeka newspaper which records the story of how eastern financiers were alarmed when they read of the large number of Kansas farmers who are buying automobiles. The easterners became scared for the security of their Kansas-farm mortgages; they lay awake at night and pictured the Kansas farmer plastering a mortgage on his quarter section in order to joy ride around the country in an automobile which he could not afford. The imagined picture became so dark that the eastern financiers got together and sent one of their number out to Kansas to investigate. Here is the result, as set forth in the Topeka newspaper:

A short time ago one of the big eastern insurance companies, a concern which has several million dollars invested in loans on Kansas farms, became somewhat excited about the reported extravagance of the Kansas farmer. The insurance company's officials seemed to be of the opinion that the Kansas farmer was borrowing money and mortgaging the old homestead for the purpose of buying automobiles. So a local mortgage company which handles this insurance company's Kansas farm loans was instructed to investigate and report the number of autos owned by its borrowers in this state. The investigation was made accordingly, inspectors being sent to each county. The result of the investigation was the information that only one farmer with a mortgage on his farm was the owner of an auto, showing that Kansas farmers are not inclined to mortgage their homesteads to indulge in the luxury of owning autos. And the one farmer who had both an auto and a mortgage was a prosperous man with plenty of property, who could well afford to own an auto who was in shape to pay off his mortgage any time he wanted to stint himself a little on his ready cash.

The result in Kansas should set the easterners' minds at rest for the entire grain belt. The farmer is not mortgaging his homestead in order to buy automobiles. When a mortgage is placed it is for the purpose of buying more land, more stock, more machinery or building a new modern home. The automobile is a side issue of prosperity; a by-product of fertile fields. Neither is the automobile the luxury to the farmer that it is to the average city man. The farmer needs it in his business; it provides quick and easy communication between farm and town, between fields and market. A dollar spent for a farm automobile is a dollar well invested, where all too often when spent for a city automobile it comes perilously near to being squandered.

SILO SAVES BEEF CATTLE SUPPLY.

Pessimistic reports sent out by the department of agriculture in regard to the decline in the number of cattle are offset by the reports made by beef-cattle men in the West and Southwest, where the silo is being given credit for saving what might otherwise be a serious situation. The day following the publication of the report from Washington that the beef cattle supply had fallen off fifteen million head in the last six years, the Kansas City Star published a statement that St. Louis and Kansas City have received nearly 140,000 more cattle thus far this year than in the first five months last year and continued with this optimistic report of conditions in the Southwest:

Men at the stock yards say that the use of the silo is a big factor in replenishing the cattle supply. Texas, Oklahoma, western Kansas and parts of Colorado began using silage extensively last fall. The result was that cattle went through the winter in excellent condition and developed good flesh with a limited supply of grain, cottonseed meal and cake. For two months past such cattle have come in competition with the supply from corn-belt feed lots. Many western cattle, fattened on little other feed than silage, sold at $8 to $8.25 a hundred pounds, almost as high as the prices for steers fattened on grain.

Silos are being erected rapidly all over the Southwest. Monday, J. F. Douglass, of Beloit, Kan., said at the Kansas City stock yards that more than 100 silos had been sold, to be put in Mitchell county this year. He built two large ones last year and this year fattened 400 steers and heifers.

Cattlemen of the Southwest say that the silo has solved the problem of winter feed and put the old range country in a position to get both the breeders' and the feeders' profit from cattle. They figure that such a condition will result in more beef.

The Star adds that live-stock men "feel more complacent now than for some time over the supply of cattle." If conditions generally are as promising as they are in the Southwest the situation is not nearly so dark as it has been painted.

The total number of cattle in British South Africa, according to the latest census, was 463,923. The increase in the seven years since the last census was at the rate of 264 per cent. The number of cattle owned by natives was 330,400, or slightly two-thirds of the whole. The increase in the European-owned cattle during the seven-year period was 440 per cent and in native-owned cattle, 209 per cent.

Cultivation of the Corn Crop.

By S. M. Jordan

ONE of the chief essentials is about in its beginning just now in the production of a good crop of corn. We assume that good seed has been put in the ground and if all the counties have prepared as good seed beds as have been prepared in Pettis county, Mo., and the planting has been as well done with as high quality seed, certainly up to the present we have reason to expect a bumper crop. However, without the necessary kind and amount of cultivation we cannot expect the very best results.

No absolute rules can be laid down, as there are a number of conditions that must always modify the methods used in cultivation. We cultivate the corn to keep the soil loose and aerated; to conserve the moisture; and to keep down the weed growth. I think, however, it is quite a general rule that level cultivation should be practiced on all rolling ground, but sometimes on very flat land that has a clay subsoil about all we can do is to do some ridging to get rid of surplus water that we sometimes have. If we knew the season was to be very dry, then the ridging would not be best, but in all lands where surface drainage is good as little ridging as possible will nearly always give best results.

It sometimes occurs that on account of wet weather we may be kept out of our fields a long time and the weed growth has become very great and the soil badly run together. In an occasion like this it seems necessary to let the shovels down pretty well and even ridge the ground if the season is excessively wet. If the season is about what we want and the seed bed has been prepared good and deep and the ground loose, there is no occasion for deep cultivation. It is entirely safe, however, to cultivate deep at the first plowing, but we should run the plow shallower every time after the season progresses. Late cultivation should merely stir the surface of the soil because it is a fact that whenever corn roots are cut off the plant is injured to that extent, hence we should avoid root pruning just as far as it is possible. Where too much ridging is done on upland we lose the greater portion of every heavy summer rain. The land is arranged for drainage and instead of the water soaking into the ground it runs rapidly away carrying our most fertile soil with it. Then, when the sunshine comes out and forms a crust on the surface where the ground is ridged there is much more surface exposed for evaporation than where level cultivation is practiced.

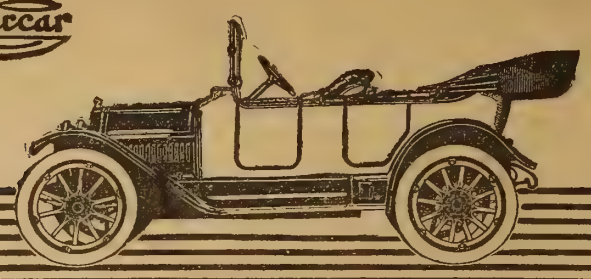
The crust that forms on the ground after a rain is like blotting paper to take the water out of the soil and it thus passes off the enormous amounts into the air. This crust contains vast numbers of cracks that are much like chimneys to let the water escape. By breaking this crust with a harrow or some shallow-working implement the crust is broken, the cracks filled, and it is much like spreading a blanket over the ground to keep the water in. If the season should be very dry the first half of July we had better not be in a hurry about laying the corn by; it will be better to go between the rows with something that will keep a dust mulch, and about each week or ten days is often enough. I believe that this late working was the chief means of saving as much of our corn crop as we did in the severe drouth of 1911.

During the regular time of cultivation it is a difficult matter to cultivate the corn too much. Under ordinary season conditions once a week is, perhaps, the best. If these cultivations on the spot where you are trying to grow a bumper yield are done just as soon as the ground is in fine working condition, following a rain, best results are sure to follow this method.

It will no doubt be found in many places that the corn louse and a small flea beetle will give us more or less trouble this year. The corn root louse especially is distributed over a very wide territory and is in, perhaps, every field in Missouri, and the only thing that can be done from now on is the best possible cultivation. Where this pest gave you trouble last year, it is well to begin working the crop before it comes up, using a harrow for this purpose. One or two or even three harrowings may be given the corn after it comes up. The weather during the winter and spring has not been such as would destroy these insects to any great extent and it is my impression that the corn will suffer a great deal this year, especially where very late plowing or a winter plowing was not done. Where we find ants burrowing around the little hills of corn we can rest assured that the plant lice are on the roots of the corn. This thorough work has a tendency to give the corn a better chance to grow and also has a chance to separate these ants from the plant lice. The ants take care of them and place them on corn roots as a first choice; however, foxtail, crabgrass, smartweed and others make very good food for them, but to allow these weeds to grow in the corn could give the corn no service since they would remove the lice from these weeds to the corn as soon as the corn begins to grow.

And now, with a pull all together for the fanciest cultivation ever done in cornfields, it certainly looks to me like a splendid crop will be the result. While I would not double the corn crop if I could in the event that it would reduce the price, I would grow the same crop on half the number of acres if I could. This would give us other acres for growing other crops or grasses, allowing us to keep more sheep and cattle, allowing us to rotate our crops, and save our hills that are washing away by growing corn upon them. So if we can find the methods by which we could continue to grow the same crop on half the acres it would certainly be wise to do so and, in addition, give the farmers much less hard work to do, making it possible to enrich his soil and his pocketbook at the same time.

Cartercar



You can learn to drive in 30 minutes!

Even if you have never seen a Cartercar you can take it out on the road and in 30 minutes you drive it perfectly. It's so simple—so easily controlled—there's nothing to confuse. This is the car that has no transmission gears—not even a clutch.

Unlimited Speeds

All controlled by one lever. You also have power to easily climb 50% hills. No jerks nor jars — meaning double tire mileage.

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All Cartercars equipped with the excellent "Jesco" Electric Starting and Lighting System. Both lights and cranking controlled by one small knob.

Send for new Catalog and find out about this remarkable service car.

Cartercar Company, Pontiac, Mich.

Write Quick & Cut Out Shoveling in Hot Harvest!

EVERY blessed farmer who buys his Sandwich Elevator **before** harvest gets **double** work out of it! This summer, it will store his **small grain**—then crib his **corn** next fall. You, too, can get **double value**—you, too, can cut out the senseless slavery of shoveling load after load till you drop.

"The Sandwich Farm Elevator is the best investment I ever made in hard labor-saving machinery," writes Herman Frey, Melvin, Ia.—one of an army who say the same.

Sandwich (Eternal / Cypress) Farm Elevator

Solves the **hired-man** problem and even lightens the **house-hold** work by cutting out the **keep**—the **expense**—of extra men. And it pays you a profit too!

"Had my crop picked 1c a bu. less on account of my elevator," says C. H. Keller, Marshall, Minn.

50 Bushels in 3 to 4 minutes

The Sandwich fills your bins—your cribs—**chuck to the top** lickety split! "Unloaded 50 bu. corn in 4 minutes," writes I. E. Orendorf, Heyworth, Ill. Others crib 40 bu. in 2½ minutes with the Sandwich.

No Leg-Breaking Platform

The Sandwich wagon-jack is **overhead.** "Works to perfection," says A. J. Anderson, Boone, Ia. You drive right under—with even the **tallest** load. And it dumps it in the hopper in a jiffy. Then hitch on any power—horse or engine—and it's off with a flying start.

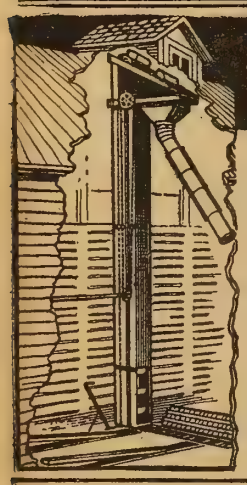
Cypress Body Outlasts Steel!

We make less money using "the wood eternal" but we make more **friends** and more **sales.** This is why it is called the **Everlasting** Sandwich and is fast crowding other elevators from the market.

Write Right Now for FREE Book

Last season we got **late** orders for 60 **carloads** we could not supply. These were from farmers who **waited.** They had to shovel. But they couldn't blame us. We warned **them** as we are **warning you now!** Our Elevator Book comes **free** by return mail the minute your request arrives; also the **name of** a Sandwich dealer close by. Address today 170 **B** St.

(9) SANDWICH MANUFACTURING CO., SANDWICH, ILL.



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THE elevator can be installed in any of your cribs—or if you intend putting up a new barn or crib, ask for our **architects plans, furnished free,** to fit your exact needs. Just tell us capacity desired and type of elevator and we'll send information that you should have. Remember—buying the "Hart" machine means having a real elevating plant. Write today for catalog.

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Study farm power NOW. Write for books and full information.

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88

FARM FURROWS

TURNED BY A PRACTICAL FARMER

An Iowa subscriber is anxious to secure plans for a barn large enough for six or eight cows and for a team of horses. The barn is intended for a fifteen-acre farm and presumably space will be allowed in it for a certain amount of grain and roughage. Those who are able to furnish information along this line will confer a favor not only on this subscriber, but upon many others if they will submit their plan to the editor of this paper.

An Illinois subscriber, Mr. D. G. Roberts, calls attention to the fact that it is not a good plan to use wire fence in the bottom of hog houses. According to his experience the wires will soon rust out and, as he says, "It is just play for an old sow to raise it up in order that her litter may work under." When this condition results Mr. Roberts says it is very difficult to clean a pen.

The days are long enough now so I can get all the work I want and give my teams all they should have if I do take long noonings. On a hot day it is a good idea to lengthen the nooning one hour.

Any disk tool is a great pulverizer. A friend of mine used a disk plow this season, and he tells me most of his land was left by this plow in better shape than moldboard plowing often is after two harrowings.

Another good thing about a disk tool is it cannot be used when the soil is too wet. A disk simply will not work in wet soil. Something like this, that will hold us back when we ought to be held back, is a good thing. Much harm is done every year by working soil that is too wet.

I have a neighbor who says he takes no stock in the new movement to make loans more easily obtained by farmers, at lower rates of interest. His idea is that farmers find it is so easy to secure loans now the temptation to go in debt is too great. I am sure there is something in this theory.

If it's anything for the auto it seems there is an extra price attached to it, but I presume common use will reduce the cost, the same as it has reduced the cost of all other machine parts. I can remember when mower knives and guard plates cost ten cents each, and we paid another five cents each to get them riveted in. Auto supplies offer opportunity for price reduction.

If there is corn to be cut for the forage, either to put in the silo or in the shock, it is a good idea to use the thickest stand for this purpose. Not only will more tons be secured from a given acreage, but the thinner corn usually yields a better quality of ears and husking is not so tedious. Deliver me from husking real thick corn, so thick that the ears are nubbins. Plan on cutting this.

The farm that is equipped with a small gasoline engine has the very best "elbow grease" necessary to turn the grindstone. As a boy, I never did like "cranking" a grindstone, and as a man I never was much stuck on pedaling and holding the sickle at the same time. A small gasoline engine belted to a grindstone makes sickle grinding hum.

There is nothing like good concrete for durability, and cement is now cheap enough so its first cost is almost less than lumber. Of course, we all know its final cost is much less, because concrete work is practically everlasting.

Nothing improves the appearance of a farm home more than a few things which cost very little money. Two things which may be mentioned are paint for the buildings and a well-kept lawn in front of the house. Go by a farm where the buildings are well painted and there is a nicely arranged lawn, and it is impossible to think of that as a poor farm. The appearance automatically stamps it as a desirable piece of property.

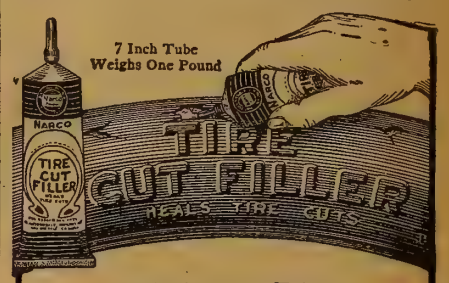
Pastures are fine this spring and the let-up on the work of doing chores after the cattle are turned out makes us turn a deaf ear to those who tell us to keep our cows in their stalls all summer. The time may come when we will do this, but when it does there will be few farms of 160 acres or over.

Pigs that arrive in this world in the heat of summer stand a smaller chance of becoming thrifty shoats than pigs that come when the weather is cooler. One summer I had several sows farrow in July, and the pigs that were saved seemed to be stunted by the heat. Since then I have not felt like giving much for sows that farrow in midsummer.

The seed-corn tester and the new planters should make the guessing at what the stand of corn will be a thing of the past. Mice, gophers and other pests will take their toll as usual, but it is poor seed and poor planting that have caused the most trouble.

The galvanized iron-fence post is now for sale at some dealer's in nearly every town. They look all right, especially the corner posts and braces, but with these, as with any corner or end post, it will take a little time and patience to set them.

It takes an "artful dodger" to plow corn successfully crosswise of a field where poor checking has been done. Stretching the wire too tight is the cause of a great deal of poor checking.



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Gentlemen—Enclosed find $1.00 for which please send me *prepaid* large size tube of Narco Tire Cut Filler and complete information about using it.

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CURRENT EVENTS

DUTY upon articles in the agricultural schedule of the Underwood tariff bill now bids fair to be according to the duty which foreign countries put upon the importation of similar articles from the United States. For instance, cattle from Canada would be dutiable at from 22½ to 25 per cent ad valorem, the Canadian tariff on cattle; meats would be dutiable at two and one-half to three cents a pound; wheat, ten to twelve cents a bushel; oats and rye, nine to ten cents a bushel; flour, fifty to sixty cents a barrel; rye flour, forty-five to fifty cents a barrel; oatmeal, fifty to sixty cents a barrel. This is the latest move in the consideration of the bill by the finance committee of the senate and is said to meet with the approval of President Wilson, who is engineering the safe passage of the bill through congress. Another month, at least, will be spent in the discussion of the bill, the senate making haste slowly in its consideration.

INVESTIGATION of President Wilson's charge that a pernicious and insidious lobby is at work in Washington to prevent the passage of the Underwood tariff bill, particularly as it applies to free sugar and free wool, discloses the fact that the Hawaiian sugar producers have already spent $100,000 in their effort to kill the proposed free sugar provision, paying $12,000 a year to a man to represent them at Washington and providing for the publication of numerous articles in the various newspapers and magazines. This is the first disclosure of systematic lobbying conducted by affected interests, although it has been shown that a number of the senators have financial interests which will be directly and vitally affected by the passage of the bill which they are considering. President Wilson, undoubtedly, spoke advisedly in what he said on the lobby, and the present inquiry bids fair to open the eyes of the country so that such insidious, but none-the-less effective perversion of popular will can hardly be successful again, in as full measure as in the past.

THE United States Supreme Court handed down an important decision last week, confirming the power of the state to fix reasonable freight and passenger rates on traffic wholly within the state, until such time as congress shall choose to regulate these rates. The decision came in the Minnesota freight rate cases and gives to the state board of railroad commissioners the power to demand and enforce a passenger rate of two cents a mile, instead of three, in all cases where such a rate would not work such a hardship on the railroad as to be practically a confiscation of property. The main lines traversing Minnesota were shown to be abundantly able to stand the reduction. The decision is important, as the railroad commissioners of eight states filed briefs and took a hand in the litigation. It is important to Iowa, for instance, inasmuch as it confirms the power of the state board of railroad commissioners to enforce the law passed by the last legislature demanding a reduced rate to the Iowa State Fair. Other states are equally interested, their power to reduce both passenger and freight rates now being assured, in all cases where the order does not cut down the receipts and profits of the road so as to be unjust and confiscatory.

LABOR troubles have been more than usually numerous, protracted and bitter the past year. Following the conviction of the McNamara brothers on the charge of blowing up the plant of the Los Angeles Times, in which outrage twenty-one lives were lost, a large number of officials of the iron workers and bridge builders' union were convicted of shipping dynamite over the country and planning outrages in the campaign to bring capital to the terms and will of union labor. About the same time occurred the prolonged labor warfare at Lawrence, Massachusetts, in which the Industrial Workers of the World (a new form of unionized labor) sought to dictate terms to the employers. Following the settlement of that affair, an indictment was returned against one of the leading capitalists of Massachusetts, the head of the biggest woolen manufacturing concern in the country, on the charge of "planting" dynamite in order to throw suspicion upon the laborers, by making it appear that they proposed to use the dynamite to blow up mills and factories. This capitalist was acquitted last week, but immediately the charge of jury tampering was preferred. A day or two later the West Virginia miners, who have been on a strike for months and have been kept in order only by the show or exercise of armed force, again came into prominence through the indictment, in Charleston, West Virginia, of the president of the United Mine Workers of America and eighteen other officials of the union, charging them with violating the Sherman anti-trust law by entering into a conspiracy to restrict the amount of coal mined, by refusing to allow non-union men to work in the mines and even limiting the amount of work to be done by the union men themselves. America is on the brink of a serious conflict between capital and labor, the aggravated labor situation being as serious a menace as any which confronts the nation today. Calm and patriotic counsel may bring about a compromise, but the gravity of the situation is generally recognized.

AMERICAN SHORT-HORN HERD BOOK.

Volume 79 of the American Shorthorn Herd Book has just come from the press. It contains 20,000 pedigrees, the bulls being numbered from 350,001 to 359,004 and the cows from 104,001 to 115,000. The price of this volume to non members is $2.00 at the office of the association or $2.30 prepaid. Those interested should write Secretary Roy G. Groves, Record Building, Union Stock Yards, Chicago, Illinois.

The Ohio Experiment Station has begun a campaign against the ox warble fly, considered one of the most harmful insect pests of live stock in the state. This fly deposits its egg upon the hairs of cattle, particularly on the legs just above the hoofs. The animal licks the hairs with its tongue and this way the eggs are transmitted to the gullet when the young maggots dig their way to the back under the hide, causing severe irritation.

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When a flood sweeps over a vast area, desolating the cities and towns which lie in its course, the appeal for assistance gets a unanimous response from the whole country.

With all commercial and social order wiped out, an afflicted community is unable to do for itself. It must draw upon the resources of the nation of which it is a part.

In such an emergency, the telephone gives its greatest service when it carries the voice of distress to the outside world, and the voice of the outside world back to those suffering.

At the most critical time, the nearest telephone connected and working in the Bell System affords instant communication with distant places.

And always the Bell System, with its extensive resources and reserve means, is able to restore its service promptly, and in facilitating the work of rebuilding, performs one of its highest civic functions.

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Save $50 to $300

Yes sir, you can positively save that much *or more* by buying your gasoline engines *direct from the manufacturer.* I am out to triple my gasoline engine business and I'm going to do it because I am making three engines where I formerly made one and I'm making prices that are selling them like wild-fire. Before I started manufacturing gasoline engines and selling them direct to you farmers, dealers used to get $225 to $300 for 5 H. P. Engines that were far inferior in quality to the famous 6 H. P. Model which I put on the market at the unheard of price of only $119.50.

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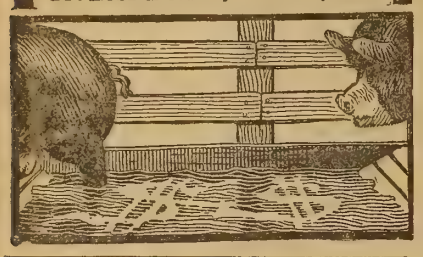

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper: but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

RECOVERY OF NOTE.

A Subscriber, Earling, Iowa.—In 1893 A gave his promissory note to B for a certain sum of money which note was due and payable in October, 1893, in the state of Nebraska. A left Nebraska in December, 1893, and has not been in the state since. Can B collect the note from A?

Answer.—A promissory note is barred by the statute of limitations in five years after it is due, but where the maker of the note departs from the state of Nebraska after his note is due, his absence will not be counted as part of said five years, and when he returns he may be sued and judgment obtained against him for the amount of the note.

DISEASED HOGS—DAMAGES.

A Subscriber, Boyden, Iowa.—(1) Can a man ship pigs from South Dakota to Iowa and sell them without having them inspected? (2) Some pigs were shipped from South Dakota to Iowa and sold to several parties in Iowa. Three of the buyers claim that their other hogs were infected with cholera from these pigs and five or six other buyers claim the pigs were healthy. Can the three buyers who lost their hogs from cholera recover damages and if so how much?

Answer.—(1) There is no provision of law requiring pigs so shipped, to be inspected. (2) If the buyers can prove that the pigs they bought were infected with cholera and by reason thereof they infected their herds, they can recover damages to the extent of the injury they suffered.

O. I. C. BOAR—SPOTTED PIGS.

Mr. Wm. Bartlett, Pierce, Neb.—I am a breeder of O. I. C. hogs. I bought a registered O. I. C. boar from a man in Iowa. The boar is a fine hog and duly recorded. I bred forty registered O. I. C. sows to the boar, and four of them had spotted pigs. I have been breeding O. I. C. hogs for twelve years, and these pigs are the only spotted ones I have had. Is the seller of this boar responsible, and can I recover damages from him?

Answer.—You cannot recover damages from the seller of the boar, unless you can prove that he misrepresented the pedigree of the boar to you. If he represented the boar to be pure O. I. C., when, in fact, it was not pure bred, but a grade boar, you can recover damages. An expert breeder might tell you whether spotted pigs constitute conclusive evidence that the sire is not pure bred O. I. C.

DRAIN ACROSS ROAD.

Mr. T. H. White, Hopkinton, Iowa.—Last year A tiled some of his land and discharged the water on B's land. Then B tiled from the end of A's tile, running into public road, discharging water into a culvert where it runs across the road into my field. The steady flow through the tile drain keeps a strip of my land so wet that I am compelled to put in tile, starting where B's tile ends on the other side of the road from my land. Must I bear the expense of tiling across the public road, or is it the duty of the township road district to do it?

Answer.—You must bear the expense of tiling across the public road. The law does not require the road district to do it.

TREES ALONG DIVISION LINE.

A Subscriber, Yankton, S. D.—Under the laws of South Dakota can I compel my neighbor to cut out a row of walnut trees that are growing along the fence dividing our farms? The trees belong to my neighbor.

You cannot lawfully compel your neighbor to cut the trees.

LAW ABOUT GRADE STALLIONS.

A Reader, Atlantic, Iowa.—What is the law of Iowa about keeping for service a grade stallion?

Answer.—The law provides that any owner or keeper of a stallion kept for public service, for which a state certificate has not been issued, must advertise said horse by having printed hand bills or posters, not less than five by seven inches in size, and have printed thereon immediately preceding or above the name of the stallion, the words, "Grade Stallion," in type not smaller than one inch high, said bills or posters to be posted in a conspicuous manner at all places where the stallion is kept for public service. Also, the owner or keeper of every stallion or jack, over two years old, kept for public service, sale, exchange or transfer, shall make oath that the stallion or jack is, to the best of his knowledge, free from hereditary, contagious or transmissible disease, or in lieu thereof, get a certificate from a qualified veterinary to that effect, and file same with the secretary of the state board of agriculture.

PARTNERSHIP BETWEEN BROTHERS—SETTLEMENT.

A Subscriber,————Iowa.—Two brothers, A and B, entered into partnership and bought eighty acres of land, taking the deed in A's name. A few years later they in like manner bought town property taking the deed in B's name. Sixteen years ago A married and moved to the eighty-acre farm. He and his wife worked hard and put all their earnings on the place in many improvements and paid all taxes thereon, while B worked in town and used his earnings solely for himself. He sold the town property for $1,000 and invested the money in other property, in Dakota land, and finally in a quarter section in eastern Colorado. He has had from the eighty-acre farm three horses, cow and calf, grain, hay, farm implements, wagon and harness, and about $500. At the time he sold the town property the eighty-acre farm was worth $40 per acre. A thinks they should either settle on that basis, or that he should share in B's property in Colorado, while B is not willing to allow A to share in the Colorado property, but wants half of the eighty-acre farm at present value. Please suggest what would be a fair and just settlement for both parties.

Answer.—B seems to be very unreasonable in his demands. A fair settlement would be an equal division of the value of the town property and the farm at the time the town property was sold; town property at $1,000, farm at $3,200, B paying A the $500 and interest, and the value of the horses, cow and calf, hay, grain and other personal property which he has received from the farm.

DIVIDING PARTITION FENCE.

Mr. Earl J. Wilkinson, Lyons, Iowa.—My neighbor and I are in a controversy about which half of the partition fence belongs to each. Please tell us the legal rule for deciding such a matter.

Answer.—It is usual and customary for owners of adjoining land to agree between themselves as to which part of the partition fence each will build and keep up. Where they are unable to agree, only one way is open to them, viz.: either party may call upon the fence viewers to meet and determine the matter and it is then the duty of the fence viewers to give notice to both parties of such meeting, and there determine the portion of the fence each is to build and keep in repair. Such decision binds both parties, unless an appeal should be taken. Some expense attends this proceeding, and it is, therefore, better for the parties to agree, if possible, and thus avoid the expense.

MECHANIC'S LIEN.

Mr. A. H. Wilcox, Odessa, Iowa.—B built a house for A and A promised to pay therefor about two months after the job was done, but did not do so. How long after the job was done can B secure a mechanic's lien to secure his pay?

Answer.—B is required by law to file his mechanic's lien within ninety days after the completion of the job.

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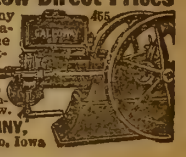

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PLAY DAYS FOR FARM WORKERS.

(Continued from page 3.)

for "Egg Day" varies little from year to year. It opens in the forenoon with a decorated automobile parade, prizes being awarded for the best decorated autos in the parade. In addition to the prizes, a souvenir is given every entry. This feature of the program is followed by a picnic dinner in the park, all the picnickers being furnished coffee, cream and sugar.

At one o'clock the athletic program of the day is given on the main street of the town. As befits the day, the contests are all of an egg nature. One of the races is for children twelve years of age or under. Twenty eggs are placed three feet apart, in rows, a row for each contestant. The runners then pick up one egg at a time and deposit it in a basket at one end of the row. The contestant that first lands all the eggs in his row in the basket, unbroken, wins first prize. Another egg race is similar to the foregoing, except that it is open to all and each contestant must place each egg in his row in the basket, unbroken, with a spoon. If an egg is touched by the hand, the contestant is disqualified. The hurdle egg race is open to all and the distance is one block. Each contestant carries an egg on a tennis racket, and the one who arrives at the finish tape first with his egg unbroken and untouched by his hands, wins first prize. Another event that is open to all is called the "crowbar egg race," and is for a distance of twenty-five yards. The contestants are required to roll an egg the requisite distance with a crowbar and deliver it at the goal, uncracked and unbroken. In addition to these contests there is the horseback egg race and the novelty egg race, the details of which are usually kept secret until the entries are complete and the races are ready to be run. Following this part of the program, there is a baseball game between two well-known teams from other cities and towns, the teams playing for a purse of $100.

But a big feature of the day and one that appeals to all, although more particularly to the women from the farm, is the egg exhibit at the city hall. First and second prizes are offered for the heaviest dozen eggs from the following breeds of poultry: Silver Laced Wyandottes, Black Minorcas, Barred Plymouth Rocks, White Wyandottes, Rhode Island Reds, and Brown Leghorns. A prize is also given for the heaviest hen, goose, duck and turkey eggs.

The day closes with a big display of fireworks and to many this feature is the star part of the program. The display is set off on the river bank opposite the park and is witnessed by thousands of people every year. The program for the day is varied with good music, both instrumental and vocal, the management seeking to entertain and amuse all classes.

The success of Egg Day in the past has demonstrated its popularity and insures its perpetuation. The fact that all the amusements are absolutely free to the farmer visitor and that he is made to feel cordially welcome adds to the pleasures of the day, while his own participation in the races and his wife's competition for the prizes at the city hall egg contest add that personal touch which makes the day his own fully as much as the townsman's.

What Egg Day is for Alden, Watermelon Day is for Webster City, Sugar Beet Day is for Steamboat Rock, Sauerkraut Day is for Ackley, and so on through a long list which in Iowa alone shows the popularity of this plan for harmonious social co-operation between farmer and townsman. In Webster City a bustling town of 7,000 population, in the northern part of the state, the annually-recurring Watermelon Day brings thousands of farmers into town and gives unalloyed pleasure to hosts and guests alike. The big feature of the day is the watermelon feast. To take care of this big feed, arrangements are made for two or three car loads of watermelons that are ready for the knife. These are piled up in a huge stockade and when the hour arrives to "cut the melon," the fruit is carved and a quarter served to each and every comer, free. If the local crop is good, the melons served are grown in Hamilton or adjoining counties and shipped to the refreshment committee. If not, the melons are shipped in for the feast, since the day would not be "Watermelon Day" without this big melon banquet.

The dominant idea of the day, and always a prominent feature of the occasion, is that one day in each year shall be set aside by the merchants and business and professional men of Webster City in order that they may serve as host to the people of the country contiguous to their city. It is the big day of the year, when these men extend a hearty invitation to the farmers in the Webster City territory to come to town and leave their pocketbooks at home, for everything pertaining to this celebration is free in every sense of the word, and this fact has probably been a big factor in the success of the festival, all joining in a jolly good time with no fear that they are going to be mulcted in some manner, either directly or indirectly. In fact, this is the day when the business and professional men of the city rub elbows with their friends and customers from the country, and freely "set 'em up," all around.

In addition to the big melon feed, which always makes the biggest kind of a hit with the crowd, plenty of entertainment is offered throughout the day. A large platform is erected in the city park, on which is given a free vaudeville program that is first-class in every way. Two or three bands usually afford plenty of music during the day, while in the forenoon a big industrial parade is given that does credit to the city and county.

Aside from refreshment stands and a merry-go-round, everything is free. To meet this expense, the commercial interests of the city contribute liberally, usually raising from $700 to $1,000 to meet the cost of the celebration. Usually some noted speaker is on the program and an athletic program adds zest to the day's fun and entertainment. Two years ago, President Taft was the speaker. (See photograph, copyright by Svenson.)

This occasion is looked forward to with much anticipation by thousands of people within a radius of thirty miles of Webster City every fall, for Watermelon Day rivals Fourth of July in importance on the year's calendar.

What is being done, with such glowing success, in these typical Iowa towns may be done, with equally enjoyable profit and pleasure, in practically any other town of the grain belt. The celebrations are to be commended for their festival spirit, for the innocent pleasure and amusement furnished, for the recreation which they provide to farmer and townsman alike and for the opportunity which they occasion for the farmer to become better acquainted with the men who buy his produce, who sell him his household necessities, who doctor his family, who try his lawsuits and who preach to him often on Sunday, but know him all too little on week days. All work and no play makes not only a dull boy of Jack and a dull girl of Jill, but a dull man of Jack's father and a dull woman of Jill's mother. Whether it be Road Drag Day (one of the latest forms of co-operation) or Bean Day or Egg Day or Sauerkraut Day, once there is innocent pleasure, friendly contest for supremacy in raising crops, and harmonious social relations between the man of the furrows and the man of the pavement, the occasion is almost bound to be mutually enjoyable and to linger pleasantly in memory from one year's end to another, making farm life more attractive and satisfying and knitting whole communities closer together.

PROFITS FROM RURAL LOANS.

"It is a good thing for the country, as well as for themselves, that our Jewish population is more and more turning to agricultural pursuits," says the Boston Transcript. While the purely technical aspects of the industry are comparatively strange to them and they require considerable training and direction, they are capable of being our instructors in some of its broader relations. The question of rural credit unions is one that has been put before congress by a president of the United States. The governor of Massachusetts has sent special recommendations to the legislature on the same matter.

But the report of the Jewish Agricultural and Aid Society for 1912 gives an account of three such credit unions by Jewish farmers, in states of New York and Connecticut. Loans equal to twice the amount subscribed by members of these unions are granted. After five months' trial these organizations showed a profit of 9½ per cent on the capital. After ten months the profit was 11½ per cent on the investment. While all this has been on a small scale, it seems to demonstrate the workableness of the system.

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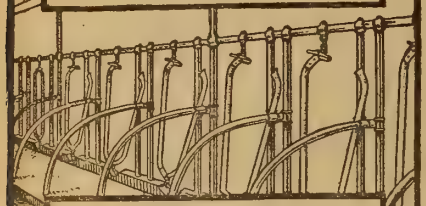

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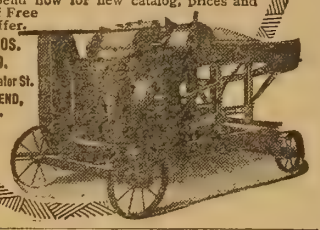

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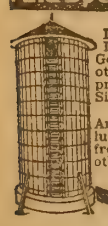

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DAIRY

SUMMER CARE OF CREAM FROM COW TO CHURN.

To the Editor of The Homestead:

In the summertime the best place to milk is out of doors, in the pasture, or in a clean, roomy corral. Take a clean, well-scalded pail, turn the cow so that the milker's back is to the wind, brush off the flanks and the udder with a damp cloth, then with clean, dry hands pump one stroke of the milk from each teat out on the ground and empty each cow's milk into the pails or cans, which are arranged at the nearest point of the milking place to the separator. The milk may be now taken to the separator, which has been made perfectly clean and every part of which has been thoroughly scalded with hot water since the last skimming. Use shotgun cans as cream receptacles, covering them with the can lids or a clean scalded cloth thrown over the spouts and the cans. Allow the cream to be exposed as little as possible to the air at any time. When the skimming is complete, taste the cream, and if it is off flavor set it aside and dispose of it as off flavor. Deliver the cream to the ice box, tub or tank, immediately. Keep it as near forty degrees as possible until removed to the creamery. When the cream is twenty-four hours chilled it can be poured into the shipping cans.

Under no circumstances should warm cream be put into cold cream. Despite all care, undesirable bacteria will get into the surface of the cold cream and, like a lot of hungry beasts, await their opportunity when warmed up by new warm cream, to commence intense action and put the whole batch with an off flavor.

Ice boxes, tubs, or cold water tanks should be under cover, a well-house being an ideal place for them. The shipping cans should be removed from their cooling receptacles to the wagon and kept covered from sun until delivered to the ripening tank or vat of the creamery. Where the cream is shipped by railway, it should not be exposed to the sunshine more than ten minutes before the train starts. A coarse sack slipped over each can while in transit, would stop much of the trouble in shipping cream.

Boiling water, ice, water at forty degrees, absolute cleanliness and sanitary covering of the cream from the time it leaves the cow in the milk until it reaches the churn is the profound secret of gilt-edged cream in the churn. There is nothing new in all this. Everyone knows it. It has been proved time and again. The question is, how many live up to their knowledge? Upon the answer depends one's success or failure.

The best method of cleansing the milk and cream vessels is by careful scrubbing, first with lukewarm water to remove the milk or cream adhering to the receptacle, and again with warm water. If a cleansing agent is used, a third washing will be necessary to remove all traces of it. Then scald the vessels. It is not enough to pour a little boiling water into each can, rinse it around, and call them scalded. They should be filled with boiling water and allowed to stand covered for a few minutes, or better still, submerged in boiling water, and exposed to the air and sun in some place where no dirt or dust can blow into them.

The dairy barn is a sanitary problem, for when milk is taken from the cow in a closed stable it becomes charged with bad bacteria in spite of all precautions. The air in a stable, as soon as the cows begin to move about, becomes laden with floating dust which serves as airships for all kinds of bacteria which seem to be able to navigate to the milk pail. Make the barn as sanitary as possible by cleanliness and disinfectants. It is well to keep a barrel of saturated lime water in a safe and handy corner, also a garden sprinkling can and give the floors a sprinkle of the lime water once a day. Keeping a hand sprayer or pump and spraying the ceilings and all the inside fixtures at least once every two weeks with lime water, is a good plan, too. Every milk pail should have a lid to slip on, as soon as each cow is milked, and the milk removed from the barn as soon as possible, to the separator room.

Farm premises are charged with many kinds of bacterial life, both good and bad. The good give pleasing flavors to milk, cream and butter, likewise the bad, disagreeable flavors. These develop flavor in all stages of heat, from zero to 112 degrees. To destroy as much of the bad life as possible and to keep inert the rest, is a problem to contend with, from the cow to the churn. The butter makers can ripen the cream to a nicety if they can but get good, sweet cream. The spoiling of the highest grade of appetizing butter is done in the treatment of the milk and cream between the cow and the churn. W. H. O.

EVILS OF PREMATURE CREAMERIES.

Prof. J. H. Frandsen, of the dairy department of the Nebraska Experiment Station, has recently called attention to the loss that the community may be called upon to share in by the premature development of a creamery. He points out that there are many districts more or less thinly settled and other sections where people are somewhat indifferent to dairying under which the small co-operative creamery can scarcely hope to be successful. Creameries under these conditions are operated more successfully under the centralized plan.

If on the other hand there are so many as 600 dairy cows in a locality, and if in conjunction to this there can be found strong sentiment in favor of the dairy industry; there is no good reason, according to Professor Frandsen, why a co-operative creamery should not be successful and satisfactory to its patrons.

At this point Professor Frandsen calls attention to the opportunity that is created for what he calls the "creamery promoter." It is the business of this type of salesman to dispose of creamery equipment and in order to do this some sort of an organization has to be effected. Hundreds of instances can be found today in all states of the corn belt where disaster has followed in the wake of these promoters for the simple reason that sufficient dairy sentiment has not been found in these localities to foster the industry after it has been established.

Professor Frandsen gives wholesome advice to those communities that are thinking of establishing on the co-operative plan when he says:

Do your own organizing and order everything needed direct from a reliable creamery supply house. The creamery organized by the farmers' own initiative not only is better and cheaper, but is on a more substantial foundation from the very first and better able to weather successfully any little storm that may come. If the sentiment and interest in the community is not developed sufficiently to make possible the organization of a creamery by their own efforts assisted by disinterested outside help, such as that from the experiment station officials and others vitally interested in the permanent development and prosperity of the dairy industry, the chances are that the creamery promoter cannot develop enough interest and mutual confidence among the farmers to make the co-operative creamery a success after the promoter's influence is withdrawn.

When a sufficient amount of interest in a co-operative creamery has manifested itself, the first thing to be done is to carefully ascertain how many dairy cows within a radius of seven or eight miles can be counted on regularly for the support of the creamery. In taking this cow census, special emphasis should be laid on the necessity of getting the actual number of cows that can be counted on to furnish cream for the new creamery. If fewer than about 600 available cows are found in this territory, the project had better be indefinitely postponed.

If it be found that there is a sufficient number of cows to give reasonable assurance of success, then the organization should be given most careful consideration, and again I would advise that the farmers do their own organizing and that not too many city people without cows be admitted. I would qualify this by saying that frequently on account of superior training it may be desirable to select a well-

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250 HEAD in herd. Some very choice young bull calves. Write us, let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
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WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
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WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

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Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.
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WE NOW OFFER 30 HEAD
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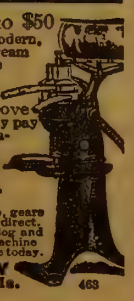

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trained business man as financial manager.

The most satisfactory way of raising the money is for each member to sign an agreement and to be jointly responsible for the amount borrowed. When such an agreement is signed by a goodly number of responsible farmers, the money can generally be secured at a reasonable rate of interest, and with this money a creamery can be erected and equipped. As soon as the creamery begins operation, arrangements can be made for a deduction of one or two cents per pound of butter to go into a "sinking fund" out of which the debt is paid. The payment is so gradual that the farmer hardly notices it. This plan has the advantage of requiring each patron to pay exactly in proportion to the amount of butter manufactured for him.

The cost of a creamery building will be from $1,000 to $2,500, depending on the locality, kind of construction, and cost of material and labor. Such a building usually consists of a main work room, engine and boiler room (including space for refrigerating machine), coal room, refrigerator, store room and office.

Machinery for a gathered cream plant will cost approximately $1,200. If refrigerating machinery is included the cost will be from $800 to $1,000 more. The total cost of a creamery with complete equipment would therefore vary from $2,200 to $4,700 for a gathered cream creamery. This estimate, of course, does not provide for a large commission for a promoter, but, rather, is made on the assumption that the building is constructed by the responsible local contractor submitting the lowest bid, and that the needed creamery machinery is ordered from a reliable creamery supply house willing to furnish the same for the lowest cash price. From facts and figures at hand it is estimated that the plan suggested would save the community from $1,200 to $2,000.

Attention might be called to the fact that the most serious objection to the "promoted creamery" is not so much the original loss which comes from investing in a building and in machinery as it is the setback which the dairy interest suffers wherever creameries fail. It means the creation of the prejudice against the industry which can scarcely ever be lived down. As the dairy departments of all the experiment stations are taking this matter up first hand with those who propose to establish co-operative creameries, it is suggested that the aid of these departments should in all cases be sought.

A GOOD ROADS TIP.

A Chicago newspaper complains very bitterly, indeed, and with apparent justification that "Illinois is stuck in the mud of bad roads." Of the 94,141 miles of public highways in that state, not counting city streets, less than 10 per cent are covered with any form of hard surfacing. And then it demands that all able-bodied men in the penal institutions should be employed in crushing stone for roads, or later in road building. All of which is sound and sensible, as it is bound to be, when founded on the pioneer experience of Colorado in convict labor and road improvements, says the Denver News.

Since Tom Tynan, warden of the penitentiary, began the work of the building and repairing Colorado roads with some of his charges, he has contributed more than $35,000 worth of convict brawn and muscle to the state. Most parts of the state have benefited by this enterprise, and only the limitation of resources has prevented other sections from reaping the results of Tynan's skill and ingenuity. And the Colorado warden is not through by any means. He will actively co-operate with the state highway commissioner, supplementing the appropriation already available for good roads by the continued employment of the men in his keeping, a very valuable contribution by reason of the experience they have had.

Illinois can obtain kindred results by the appointment of the right kind of warden, and by judicious combination of humanity and labor. In this connection it can get the best advice in the world from Tom Tynan, warden of the Colorado penitentiary.

John H. Wallace, game warden of Alabama wants the United States Government to immediately make treaties with other countries of the western hemisphere for the protection of migratory birds. Such treaties would practically be an extension of McLean bill, passed at the last session of congress which provides for federal protection of migratory birds.

Ask your neighbor to subscribe for The Homestead.

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There are more than a million such signs on the best farms the country over. They are almost invariably a badge of prosperity and practical progressiveness. They are a most impressive object lesson to the farmer who hasn't one. They point the sure way to better things in dairying.

Where there's a De Laval user without a De Laval User's Sign a new enameled sign will be gladly sent him free of all cost.

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Why not buy a De Laval Separator now? Try one any way, through the local agent, and satisfy yourself. This will cost you nothing and may save you much. There never was a better time to make so important and self-paying an investment than right now—and the "sign of a good dairy farmer" goes with it.

THE DE LAVAL SEPARATOR CO.
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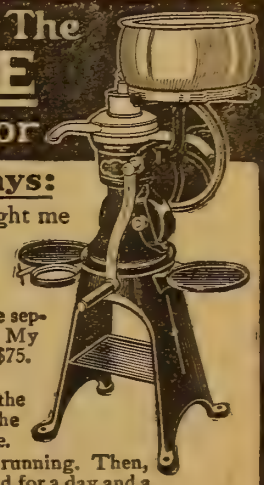

Farmer Onswon says:

Years of experience have taught me one indisputable fact: There is only *one* separator which combines high quality with moderate price—that is the BEATRICE. Most every farmer is aware that the average high-grade separator of big capacity costs from $100 to $110. My BEATRICE, with 1000 pounds capacity, cost me $75. Why pay more? There is no better machine. *Less than 2 minutes* is all the time it takes to clean the machine with the patented device. It will leave the machine thoroughly clean and sanitary. Try it and see. My BEATRICE beats any machine I ever had for easy running. Then, the close skimming. Why, I've let skimmed milk stand for a day and a half and you couldn't find a speck of cream on it. And—I haven't done so little repairing since I owned a separator. That's a point *you* want to consider.

The BEATRICE is a guarantee of separator satisfaction. That's what you want. Ask your dealer or write for booklet to the nearest address below. 600 lbs. capacity, $55. 800 lbs. capacity, $65. 1000 lbs. capacity, $75.

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Rose Comb Rhode Island Reds

EXCLUSIVELY.

EGGS FOR HATCHING

LARGE BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City.
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RHODE ISLAND REDS

SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

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THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

FARM range R. C. R. I. R. exclusively. Eggs hatching fine. All fowls healthy. 48 fine pullets and hens in our pens now in farm range flock. We will sell eggs at the low price of $4 per 100 or $2 per 45. Summer and fall chickens cheapest and easiest to raise. Order from a healthy and vigorous flock. J. B. Heisel, Grinnell, Iowa.

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine cks. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

R. C. Rhode Island Reds

EGGS now only $2 50 per 15, from pen headed by first-prize cockerel at the big St. Paul show, 1911 Eggs from fine farm range flock only $3.00 per 100. H. E. Huston, Iowa Falls, Iowa,

Eggs for Hatching R. C. Reds exclusively, farm range $3.75 for 100, $1.87 for 45, 75c for 15. Satisfaction guaranteed, Address BEN F. BENTLEY, R. 2, Boone, Iowa.

EGGS FOR HATCHING at half price. Rose Comb Rhode Island Reds exclusively. A few breeding birds for sale. F. N. BLAKE, Maquoketa, Iowa.

S. C. R. I. Red eggs from a heavy-laying strain at 75 cents per 15; $4.00 per 100. Orders filled quickly. Address M. E. Edwards, Route 2, Walnut, Ia.

S. C. R. I. Red Eggs from bred-to-lay strains. pen $2 per 15, range $1 per 15, $5 per 100. Address F. L. Shackleton, Boone, Iowa,

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address **Mrs. Charles Belz, Conrad, Iowa.**

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30.
C. H. North, R. D. 2, New Hartford, Iowa.

JULY Special. Have reduced S. C. R. I. Red Baby Chicks from $15 to $10 per 100 safe arrival guaranteed. Mrs. E. P. Gaddis, Griswold, Ia.

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S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed cks, $2.50, $5 ea. Highland Farm, Hedrick, Ia

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BARRED PLYMOUTH ROCK EGGS AT HALF PRICE.

FOR the remainder of June I will sell eggs at half price. Pen 1, $1.50 for 15; $2.50 for 30; $3.75 for 50. Range flock in proportion.
EARL BLOOM - - Bridgewater, Iowa.

Barred P. Rock Eggs and Baby Chicks

HAWKINS, Thompson and Bradley strains. From high-scoring, good laying stock, heavy bone, deep, narrow barring. 15 eggs, $1.25; 30, $2.25; 100, $5.50; 200, $10. Mrs. Elsie Noble, R.2, New Boston, Ill.

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Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15, Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

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BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

BABY CHICKS.

CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. **20th Century Hatchery,** Chatfield, O.

R. C. B. LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. **George E. Banton, Epworth, Iowa.**

ANDALUSIANS.

EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. **A. J. Arends, Blairsburg, Ia**

WYANDOTTES.

White Wyandottes

NO more eggs or chicks. A large number of good breeders are now offered at $10.00 a trio or $15.00 a pen. Also a number of good utility hens at $1.50 each. Also some utility males at $3.00 each. Write us your wants. We guarantee to please.
White Wing Poultry Farm, C 294, Perry, Ia.

Silver Laced Wyandottes

I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

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$1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2, unscored, $15 doz.
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BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92½. Write for prices, R. B. Rowe, Indianola, Ia.

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FAHA Silver Wyandotte eggs from 5 grand pens. A few choice birds for sale. Send for catalog and mating list. Frank Faha, Jr., Box 620, Dyersville, Ia.

BONNIE View White Wyandotte eggs, from a fine laying strain. Test high in fertility. Address Mrs. N. W. Burbank, New Sharon, Iowa.

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NO more eggs or chicks. A large number of good breeders are now offered at $10.00 a trio or $15.00 a pen. Also a number of good utility hens at $1.50 each. Also some utility males at $3.00 each. Write us your wants. We guarantee to please.
White Wing Poultry Farm, C 294, Perry, Ia.

RARE BARGAIN IN WHITE ORPINGTON EGGS

EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address
F. Fortmann, Box 23, Dyersville, Iowa.

S. C. Buff Orpingtons exclusively. Eggs from high-scoring special matings, $1.50 for 15; utility flock $1 per 15. Stock for sale. V. H. Conner, Shell Rock, Iowa.

Buff Orpingtons S. C. Eggs $1 for 15 or $4 for 100. From prize-winning American silver medal strain. Fine layers, heavy weight. Address W. M. Shaw, R. 6, Newton, Ia.

COOK'S Single Comb Buff Orpington eggs at half price. Special low prices on all breeding stock for the next 30 days. Address H. E. Gerry, Traer, Ia.

Coleman's famous Buff Orps., Prize winners, June sale, 100 yrlg. hens, 6 cks. Eggs, young stock half price after June 1. Mrs. C. E. Coleman, Clarinda, Ia.

241 EGG Strain S. C. Buff Orpington, 100 breeders at $1.00 each. Eggs ½ price. Circular free. W. L. Bardsley, Neola, Iowa.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

EGGS from S. C. Buff Orpingtons. 15 $1: 100 $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

DUCKS.

White Runner Duck Eggs

NOW $1.50 per 12. Orders filled promptly. Our Breeder for sale, plenty of time to hatch ducks yet. Send in your order. Address
Rahn & Son, Box 144, Clarinda, Iowa.

PEKIN DUCK EGGS

Eggs from prize-winning fowls at reduced prices. $2 per 22; $6 per 100. One man writes: "13 ducks from 13 eggs."
John M. Hall Williams, Iowa

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels. Oakland, Iowa.

EGGS from choice flock of high-scoring, pure-bred Rouen ducks; orders filled promptly; 11, $1; 50, $4; 00, $7.50. Mrs. Henry H. Newcomer, Forreston, Ill.

LANGSHANS.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 50c; 26, $1.00; 100, $3.00. W. W. Baskerville, Earlville. Iowa

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

When writing to advertisers please mention The Homestead.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

HANDLING LATE CHICKS.

To the Editor of The Homestead:

Many people are of the opinion that late chicks cannot be handled successfully and that to attempt to raise late chicks will end in utter failure. As a matter of fact, late chicks are no harder to raise than those hatched in March, April or May.

Oftentimes it is not possible for one to hatch chicks as early as usual on account of unforeseen troubles. There is no reason why one should be at all backward about setting eggs a little late in the season.

There are only two things to be remembered in raising late chicks, especially those hatched during June or July. In the first place, abundant shade must be provided and the sleeping quarters made as cool as possible, and, in the second place, care must be exercised that the chicks do not have the opportunity of getting out early in the morning when the grass is wet. This is very important. We have had promising chicks killed from the effects of getting wet early in the morning and later, when the sun became hot, they died.

The usual excuse offered for not raising late chicks is that "they stand around and sleep themselves to death." But if you had examined those very chicks we are confident that you would have found something else wrong with them. A chick is just as much a lover of life as you are, and you may be assured that it will not simply stand around and sleep because it happened to be a June or July chick.

Not very long ago we examined one flock that had this "disease," and the owner was very much surprised to find that her chicks were suffering from "lice." The owner was a victim of a popular verdict—being June chicks they were expected to do nothing else but die.

An examination of another flock revealed the fact that they were forced to sleep in badly ventilated quarters with chicks three or four sizes larger than they were. As a result the larger chicks got the best places to roost and usually tramped the little fellows until they were stunted.

It is imperative that June or July chicks have a place to themselves and they should naturally be given a little extra attention and care, for they come at a time of the year when you are apt to neglect them too much. As far as disease and lice are concerned for late chicks, that lies in your power. It is not any harder to fight lice on June or July chicks than it is to fight them on April or May chicks. As a matter of fact, I would rather take the later chicks when it comes to a question of fighting vermin.

About the only thing that is not in favor of the June or July chick is the fact that it will be a late layer. It has been stated that a young pullet comes into her greatest laying power exactly one year after being hatched. Such being the case, it can be seen that a June or July chick would not make a strong layer at the time of the year when prices are high. But, the question of when a pullet will lay her best is not fully decided. It is usually a question of the individual pullet or the care she has received. There are many breeders that claim to have their pullets in good laying by the time they are seven months of age. If such be the case, June or July-hatched chicks would come just at the right time to catch the high prices.

Where it is the purpose of the poultryman to raise fowls for the markets, there is nothing that will be a greater assurance of success than to hatch the fowls intended for late markets, during June or July. Fowls of the larger breeds hatched during those months should be in the best of flesh for the Thanksgiving markets and will even make good on the Christmas markets.

There can be no doubt that June and July-hatched chicks make the best birds to put in the show room. Practically every good winner last winter at all the large shows was a

DOGS.

Scotch Collie Pups

I HAVE 6 male pups, sable and white in color, six weeks old that are out of an excellent working bitch. Their sire is also a good worker. Both are natural heelers. Price $5.00 each for the next two weeks. Better order at once if you want one.
J. E. SMITH - - - VICTOR, IOWA

SCOTTISH TERRIERS

THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. Harr, Riverside, Iowa.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collie pups for sale. Sable and white in color, perfectly marked. Sired by Hilander II No. 148502. Dam Willing Lassie No. 148503, two of the best heel driving dogs in the state. Price $5.00 for females and $10.00 for males. Write me quick. Le Roy Brown, Lamoni, Iowa.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

SCOTCH COLLIE PUPS 5 months old, sable and white, pedigreed, ready for work, four males and one female. $10 each. H. J. ROMPF - R. 1 - Marion, Iowa

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

FOR SALE—Nicely marked Fox Terrier pups, also two grown females. Males $8, females $3. Louis Moeller, R. R. No. 2, Everly, Iowa.

SCOTCH collie pups, over two months old. Parents are first-class workers and watch dogs. Males $8; females $6. F. Bollman, Wall Lake, Iowa.

SCOTCH COLLIE PUP--- Good heeled, good marking. Address, A. G. Lindsey, Route 3, Merrill, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9.
R. R. STEWART, R. 2, Charles City, Iowa.

SINGLE COMB BROWN LEGHORNS LOW JUNE PRICES.

PEN 1—75c for 15; $1.25 for 30; $1.35 for 50; $2.50 for 100. Range flock, 65 for 15; $1 for 30; $1.25 for 50; $2 for 100.
EARL BLOOM - - Bridgewater, Iowa.

MORRILLVILLE POULTRY FARM

ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked cks. Heavy laying strain. A few choice cks., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males scoring to 93 1-2. $1.75 per 50; $3 per 100. Indian Runner duck eggs, $1 per 15. Mrs. Will Michael, Selma, Iowa.

S. C. Brown Leghorns. Winners at Iowa State, Cedar Rapids and Burlington shows. Eggs—yards $3.00 per 15; range flock $1.50 per 30; $4.00 per 100. Circular free. Orlando Jacobs, New London, Ia.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

ROSE COMB BROWN LEGHORNS. Pure-bred eggs at $3 for 105 this month. Address Mrs. Laura Mather, Clarksville, Iowa.

ROSE COMB White Leghorns and Black Langshans. Eggs for hatching for sale; $4.00 per 100 or $2.50 for 50. Joseph Kappes, Jr., Ashton, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

R. C. W. Leghorn Eggs from stock scoring to 94½. 50 eggs for $2.25, 100 for $4. Mrs. Geo. H. Tutt, Marathon, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

BRAHMAS.

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

June-hatched bird. In fact, at one of the prominent eastern shows it was found that 90 per cent of the male birds in all classes were late summer hatched.

In view of the above facts we can not see where there is a logical reason for refusing to raise a few chicks during the late months of the incubating season. The earlier chicks are out of the way by that time and there is no reason why every farmer should not avail himself of the opportunity of adding a little more to his profits from the poultry yard. Of course, it will take a little more work, but in what way can you return money to the farm without work?

If there is an incubator on the farm, we would advise that the late chicks be hatched by that means, for it will remove the bugbear of lice. However, a good hen will do just as well.

The hen should be given the means of taking a daily dust bath all during the incubation period. This is an important thing in successfully raising late chicks. In addition, she should be given a good and thorough dusting once each week with a good insect powder.

Just as soon as the chicks are dry, take them away from the hen and place them in a fireless brooder. We would not advise the use of the hen under any circumstances for brooding the late chicks. You will find that they will do better and will be better contented without her.

For the first two weeks feed them all they will eat of dry bread crumbs. But do not feed them until they are seventy-two hours old nor allow them to have a drink until that time. This is important. Moreover do not allow them to drink during the first week except at the regular feeding periods, which should be five times each day. This is the best remedy for white diarrhea we know of—starting them properly.

At the end of the second week, the bread crumbs are discarded and cracked wheat given them. The wheat is the best thing for young chicks that can be obtained. Now, under no circumstances, allow them to have access to cracked corn at this stage of their growth. If you cannot obtain the cracked wheat, feed them on oatmeal or steel-cut oats. It will answer the same purpose of the wheat. If you are fortunate enough to have both, they may be fed alternately.

The object in feeding chicks at any time of the year is to induce the greatest possible growth without injuring the chicks in any way. While corn is possibly an advantage in inducing a good growth, it is not to be recommended until the chicks have obtained their full development.

Continue to feed the chicks five times each day and the water may now be left before them all the time. The tendency of little chicks is to drink too much, especially during the first two weeks, which causes a reaction to take place, resulting in the disease known as diarrhea.

Of course ample shade is necessary for success in raising late chicks. This may be applied in many different ways and it little matters what the shade is, just so the chicks have it and are kept as cool as possible. Early in the morning it is best to put them in the direct sunlight on a bare run where there is no grass. As the day becomes warmer, remove them to a shady place, in the orchard, or allow them to roam at will. But do not allow them their freedom until the grass has dried off.

Plenty of shade with good intelligent attention will work wonders with late chicks. If given the opportunity they will do even better than chicks hatched earlier in the season.

Chesla Sherlock.

RAISING GEESE.

One of our subscribers, W. G. McGreger, of Garfield county, Nebraska, desires some information in regard to raising geese. He writes the following:

I have recently commenced to keep geese and find the following trouble: Have seven geese which run at large and have all the grass and grain they will eat with plenty of pure water to drink, but none in which to swim. One goose after another has become affected with some trouble in their legs, being unable to stand up or walk. Otherwise they appear to be well, eating and drinking and flopping around. This trouble generally lasts a week or two when they generally get over it. None have died.

What method should be used in setting geese? Can they be handled and set like chickens or must they be allowed to select their own nest? I find that they sit near one another and steal each others eggs. I am in the sand hill country with acres of grass going to waste and am sure that goose raising would be very profitable here if I could get well posted in the business.

It will pay anyone situated where there is an abundance of grass to raise geese. They are natural grazers and will do very well with nothing but grass and water, though a very little grain is advisable through the laying season.

The geese in question have become too fat. If they are killed and examined their livers will be found to be enlarged. That they recover is probably due to the fact that they did not have access to so much grain while they were disabled. Water for them to bathe in is desirable, but not absolutely necessary. A dry shed bedded with clean litter that will protect them from the weather is all the shelter needed.

The best all-around breed is the Toulouse. It grows to a very large size and will come more nearly making good under any and all conditions. In this, as in everything else, it pays to get pure-bred stock for the foundation.

This breed will lay from fifteen to twenty eggs and then become broody. By far the better plan is to set the eggs under chicken hens, five under a small hen and seven under a large one. If removed to isolated quarters a goose will soon give up the maternal prospects and begin laying again. They will lay three clutches in a season if promptly broken up.

Goose eggs hatch in about thirty days. Some breeders dip the eggs in warm water when it is nearly time to hatch. Even experienced breeders' ideas conflict about this. Many outside issues must be determined by the keeper himself. If the weather be hot, dry and windy by all means supply moisture.

It is necessary to be very careful when the goslings begin to escape from the shell. Many hens resent the presence of the peculiar looking aliens and proceed to peck them to death. If a hen is quiet and "owns" them she may be left with them for awhile. If not, they are very easily raised without the hen, as it is usually warm weather.

The goslings should not be fed for forty-eight hours; just kept quiet. The first feed is tender grass. Water should be given in a shallow vessel filled with stones to keep the little fellows from getting wet. Contrary to the popular belief young geese cannot stand soaking rains. A little later they may be fed corn bread that has been made with soda and sour milk and dampened; also cracked corn that has been scalded. But by far the greater part of their feed should be grass, clover and other bulky green stuff. If a hen is kept with them they learn to eat much sooner. It is advisable to confine them in a movable pen for a couple of weeks, allowing the hen to come and go as she chooses. If permitted to follow either a chicken or goose mother the first few days of their life they do not get enough rest. As a rule geese are not troubled with lice, but the goslings will become infested from a chicken mother and should be given attention.

If a gosling lives to be two weeks old and is kept out of beating rains, barring accident they will almost invariably live. Considering the small cost to raise them, the rapidity with which they get their growth and the profit realized, this industry has a bright outlook where pasture is abundant.

TO SHOW ROADS OF ALL AGES.

One of the most elaborate collections of road models ever displayed will be shown by the United States office of public roads at the Panama-Pacific Exposition in 1915. Logan Walter Page, treasurer of the bureau, began today preparations for assembling this unique exhibition.

Reproduction of old Roman roads, French roads and all the various types of modern highways will be included in the models. Miniature reproductions of road machinery, as well as every other known device used in the building of roads, will appear in the exhibit.

For years the bureau has been displaying at various national and international expositions and elsewhere and in its railroad educational cars samples of the work it is doing, but the showing it is preparing to make at the Panama-Pacific Exposition will be the most complete yet made.

Whitsitt's Short-horn Sale.

The twenty-fifth annual sale of Short-horn cattle at Prairie Heart Farm, of Whitsitt & Sons, Preemption, Ill., June 13th, drew a large crowd. For nearly half a century Short-horns have been bred upon the acres of this rich Illinois farm, and a great many cattle have gone out from it that have been profitable investment to those who secured them. The present offering, the twenty-fifth public sale that has been held there, had too many young things in it to make a very high average, but the fact that practically everything sold was produced on Prairie Heart Farm hade it profitable for the Messrs. Whitsitt and yet gave the buyer plenty of leeway. The bull demand was not as keen as it would have been a month earlier, owing to the lateness of the season, yet the very satisfactory average of $134 was made on the seventeen head sold, and the list included several youngsters that were too young to sell well. Collins Bros., Viola, Ill., topped the sale at $300, giving that price for the two-year-old Claret bull, Red Marshall, and at that price he was a decidedly good investment. Iowa, Illinois and Indiana buyers took the cattle, and the sale was conducted throughout in a highly satisfactory and honorable manner. Col. Carey M. Jones did a most excellent day's work in the box, assisted in the ring by George Burge and S. D. Lipton. The day was a beautiful one, and a satisfying lunch was served on the handsome lawn. The following is a list of all sales amounting to $100 or over:

FEMALES.

Rosebud 3d, calved 1911; Wickham Bros., Mt. Vernon, Iowa	$135
Lady Margaret, calved 1911, and b. c.; Otto Klawonn, Coal Valley, Ill.	130
Lady Clarinda, calved 1912; J. A. Countryman & Son, Rochelle, Ill.	145
Princess Gilt, calved 1911, and h. c.; Chas. Weir, Rio, Ill.	150
Miss Sadie, calved 1911; Chas. Wilkens, Nauvoo, Ill.	115
Florence, calved 1911; J. A. Countryman & Son	110
Lady Josephine, calved 1909, and b. c.; Dr. Taliaferro, Roseville, Ill.	185
Rosemary, calved 1910, and h. c.; Dr. Taliaferro	130
Fairy Belle, calved 1910; Fisher Bros., Hebron, Ind.	135
Redbird, calved 1911; Fred M. Price, Alexis, Ill.	150
Red Clover, calved 1910, and b. c.; Chas. Streeter, New Windsor, Ill.	145
Mary Belle, calved 1911; Chas. Streeter	115
Countess, calved 1912; Chas. Streeter	100
May Queen, calved 1910, and b. c.; Ollie Whiteman, Biggsville, Ill.	145
Matilda, calved 1910; A. D. Ward, Geneseo, Ill.	105
Red Clover, calved 1910, and b. c.; A. D. Ward	145

BULLS.

Red Marshall, calved 1911; Collins Bros., Viola, Ill.	300
Violet's Prince, calved 1911; John Webster, Mendon, Ill.	190
Roan Champion, calved 1912; Jos. Peterson, New Windsor, Ill.	235
Prairie Victor, calved 1911; David Leaonard, Geneseo, Ill.	145
Red Prince, calved 1912; Fisher Bros.	150
Prairie Prince 2d, calved 1912; L. A. Liphart, Milan, Ill.	100
Captain, calved 1912; W. M. McCormick, McCall, Ill.	150
Roan Baron, calved 1912; George Stark, Reynolds, Ill.	115
Prairie Baron, calved 1911; Robt. Bailey, Coal Valley, Ill.	155
Senator, calved 1910; Rowland Metzer, Coal Valley, Ill.	150

SUMMARY.

31 females	$3,155; average	101
17 bulls	2,275; average	134
48 cattle	5,430; average	113

Bloodsucking Mites
are the hot weather scourge of the poultry yard. Kill the pests before they ruin your flock. Use PRATTS LIQUID LICE KILLER or PRATTS DISINFECTANT Guaranteed. Dust the fowls with Pratts Powdered Lice Killer. Pratts 160-page poultry book 10c by mail.
At all dealers, or
PRATT FOOD CO., Phila., Chicago

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS—Barred Rocks, Bronze Turkey—EGGS
BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

EGGS for hatching, S. S. Hamburgs, S.C. Anconas Prt. Wydts, S.C. Buff Leghorns, I.R. ducks it. Fand. W. $1 setting after May 15. E. E. Calvert, Shell Rock, Ia.

B. LANGSHANS, I. R. DUCKS High-scoring stock. Eggs, 75c per 15, $4 per 110. Satisfaction guaranteed. B. A. Randell, Mt. Zion, Ia.

LANDS AND HOMES

Irrigation

in the West has been and is highly successful. You are wholly independent of rainfall. It has made invaluable the farm lands of California and other Western States, making possible numerous money-making crops: Alfalfa, Fruits, Grains, etc. We have investigated many irrigated propositions and have information regarding farm lands and ranches in the West. These are opportunities that should not be overlooked.

Write for valuable and authentic information which is free of charge.

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Colonization and Industrial Agent, Union Pacific Railroad Co., Room 118, Union Pacific Building,
OMAHA, NEBRASKA.

BEAUTIFUL Northern Minnesota
You should see it now. Clover and rich grasses everywhere. Ideal for stock growing and dairying. Our land prices are low. Our terms are made to suit your needs. Write for maps, folders and particulars.
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WRITE TODAY
FOR big list of Eastern Iowa corn farms. Close to city of 35,000. Best of home markets. Everything to make farming pleasant and profitable. Low prices, easy terms.
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GOING TO CANADA
LEARN all about the best grain growing district in the Western Canada. Write for descriptive booklet giving full particulars of the Wolseley district. Address
Secretary - Treasurer Board of Trade, Wolseley, Saskatchewan, Canada.

AUCTIONEERS
LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2356 Washington Blvd., Chicago, Illinois.

WOULD YOU BACK YOUR OWN JUDGMENT
when you saw a farm snap? If so come and let us show you land in the best soil of northwest Iowa and southern Minnesota. Write for particulars. Sexton & Brown, Spencer, Clay County, Ia.

DO you want **Warranty Deed** to quarter section, fine lignite coal vein 40 feet thick, six miles from railroad, North Park, Colorado, for $15,000? Same land would now cost $18,000 to $25,000 from United States. Surface valuable also. Write owner, 3535 E. 34 Ave., Denver, Colo.

Good Improved Farms $65 to $125 Per Acre
LAND that will grow grass, tame hay, small grain, corn and hogs. Just over the Iowa line in Minnesota. McCadden & Allison, Fairmont, Minnesota.

FOR SALE—Eastern North Dakota, slightly rolling quarter section; no improvements. One mile from county seat, black soil; town has 5 elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Ave., Peoria, Illinois.

FARMS WANTED We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property **free.** American Investment Association, 33 Palace Bldg., Minneapolis, Minn.

WANTED Good tenants for good farms well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. **The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.**

SOUTHEASTERN KANSAS
IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa.

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

IF YOU WANT A HOME in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. HAMILTON, Winterset, Iowa.

MINNESOTA:—Large or small tracts of wild land. 40 to 2500 acres in a body. Write me and save money. W. C. Murphy, Foley, Minnesota.

FOR SALE—Farm of 390 acres at $100 an acre, in Mahaska county, Iowa, well improved, fenced and watered. A fine stock farm. J. M. Herron, Oskaloosa, Iowa.

WRITE for list improved and unimproved corn and wheat lands, Stanley county, South Dakota; price $10 to $20 an acre. Agents wanted. Jay P. Morrill, Palace Bldg., Minneapolis, Minn.

GOOD 280-acre Iowa stock and grain farm at only $125 per acre. Will exchange for well located Kansas land and some cash. Sheldon & Tedford, Mt. Ayr, Iowa.

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. Address **SEWELL LAND CO., Garnett, Kan.**

FOR SALE.—8 acres; also 17 acres close in and at half price. W. R. Wilkins, Fair Ground Station, Des Moines, Iowa.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

ARKANSAS land. Low price. Easy terms. Map and booklet free. Geo. R. Lochrie, Gifford, Ark.

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address HOMESTEAD COMPANY Engraving Dept. Des Moines, Iowa.

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$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

$25 for a Name for this Pony

I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

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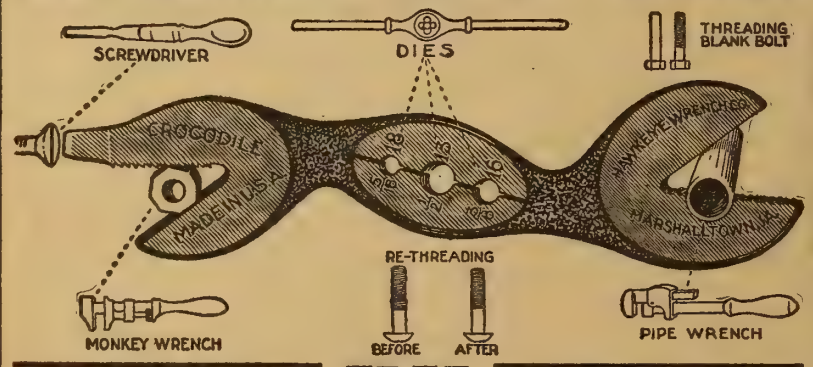
A HANDY WRENCH
FOR HARVEST AND HAY MAKING



THIS WRENCH IS FREE BY PARCEL POST

The months of June and July find the farmer busy with his harvest and hay making. It is then that he needs a wrench that will answer every purpose around the binder, mower or rake. We have just such a wrench in our famous "Six in-One Crocodile."

This wrench is drop forged from the finest tool steel, scientifically tempered. Every Wrench is Guaranteed. It has six handy tools in one—pipe wrench, nut wrench, screw driver and three dies for cleaning up and re-threading rusted and worn out threads. Dies fit all standard farm machinery. It requires no adjustment, never slips, and is simple and always ready for use.

HERE IS MY OFFER:

Send me only $1 for one year's subscription to The Iowa Homestead and I will mail you one of these crocodile wrenches free of charge by parcel post. This offer is good only till July 1. Use the coupon below and mail all orders to

J. M. PIERCE - - - - - PUB. THE HOMESTEAD
DES MOINES, IOWA.

Date.....1913
James M. Pierce, Des Moines, Iowa.
Dear Sir:—Enclosed find $1.00 for which extend my subscription to The Homestead one year. Send me free of charge your "Six-in-One" wrench

My name.....

Postoffice.....

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

It begins to look as if girls attending the rural schools of Kansas were to have similar opportunities to those of their town cousins who have the advantage of lessons in scientific cookery. The state superintendent of schools is co-operating with other Kansas educators to make domestic science a course in every school in the state. Two important steps have already been taken.

Opinion having been sought of the state's attorney to discover if it would be legal to make such a course obligatory the ruling has been made that the purchase of necessary equipment and that of raw foods and supplies for carrying on the work is as necessary a part of the school outfit as the purchase of coal for heating or books for the library. This makes it possible to push the movement and establish the new course even in school districts where the ever-present "old-fogy" with his moss-back ideas and his little hammer will oppose the innovation.

The other important step already taken is that the domestic science department of the state school of agriculture has commissioned Miss Lewis, of the home extension branch, to compile a text-book and course of study in domestic economy for use in the schools of the state—the course to be arranged with special reference to the needs of rural schools.

High school students have for some time had the opportunity to take a course in domestic science, but except in large cities pupils in the ward schools and in the rural schools have been denied this study which is so fraught with possibilities for the home. Country girls are less apt to be ignorant of household hygiene and the art of cookery than their city sisters, but they, too, should learn the scientific side of it and so be able to become intelligent as well as capable in the handling and preparation of food.

HOME AND HOMEMAKING.

WE TWO.

We two make home of any place we go;
We two find joy in any kind of weather.
Or if the earth is clothed in bloom or snow,
If summer days invite, or bleak winds blow,
What matters it if we two are together?
We two, we two, we make our world, our weather.

We two make banquets of the plainest fare;
In every cup we find the thrill of pleasure.
We hide with wreaths the furrowed brow of care,
And win to smiles the set lips of despair.
For us life always moves with lilting measure;
We two, we two, we make our joy, our pleasure.

We two find youth renewed with every dawn,
Each day holds something of an unknown glory,
We waste no thought on grief or pleasure gone;
Tricked out like hope, time leads us on and on,
And thrums upon his harp new song or story.
We two, we two, we find the paths of glory.

We two make heaven here on this little earth;
We do not need to wait for realms eternal.
We know the use of tears, know sorrow's worth,
And pain for us is always love's rebirth.
Our paths lead closely by the paths supernal,
We two, we two, we live in love eternal.

—Ella Wheeler Wilcox.

THE FULL LIFE.

There is more in life than eating and drinking and clothes. Can we not make time or get time for rest, for reading, for recreation, by systematically portioning out the work so that the children may have their share, that by working together we may then have time to study and play with them. Or we may find it possible to slight some part of the work and so get time for the ride or the visit. Let us plan for a little vacation if it is only for a day, or for a little picnic with "father and the children," eating our supper in the woods, where the novelty and the fresh air and the happy comradeship with our own family will put new life and vigor into our tired bodies.

WORTH REMEMBERING.

For disinfecting the sickroom take half a cupful of common salt and two or three ounces of sulphuric acid. Upon the salt pour one-half ounce of the acid and stir; every fifteen minutes repeat this until all the acid is used.

As a remedy for tired, aching feet, there is nothing better than to soak them in warm buttermilk or ordinary sour milk. Heat it on the back of the stove and dissolve in it a teaspoonful of baking soda. Put into a small basin, so it will cover the entire foot, if possible, and soak the feet for fifteen or twenty minutes.

In case you are so unfortunate as to have a fire start, remember that you must never throw water upon burning oil. Smother the flame with sand or some similar substance, or with a heavy blanket. In case a person's clothes have been set on fire, they should lie at once on the floor and the flames should be beaten or smothered out. Standing or running about increases the draft.

No kitchen outfit is complete without a bottle of carronoil. This is no new concoction. It is an old, old remedy, whose equal for soothing and healing burns has not yet been found. The preparation can easily be made at home by mixing equal parts of raw linseed oil and lime water. An emergency bottle should always be at hand in case of danger from too close contact with steam or heat of any kind. Housekeepers in country districts where medical aid is difficult to obtain will find this recipe invaluable.

AMONG OURSELVES.

Do you know, I am inclined to believe that Cain and Abel fell out over "rights" and "duties?" And a lot of the troubles the world has seen have originated in the manner in which these rights were taken and these duties were performed. It is a serious matter. Our friend Mrs. Hawley will discuss this subject for us from the standpoint of "making the best of things." "Making," by the way, is a process that frequently requires considerable effort, and persistence. It is quite different from letting things "slide:"

We hear much in these days about "making the best of things." It is certainly nice to be able to make the best of things, providing we do it! But do we? If the tired, overworked wife endeavors each day, smiling, to bear the heavy burden laid upon her and give in return for that burden her life blood without a protest, is that making the best of things or is it simply forced endurance? What is it to make the best of things? To my mind it is making things the best we can. The general view of "making the best of things" tends to keep up the general rule of things without bettering the condition of affairs one whit. Will such a proceeding as that better the condition of woman? No! It is that very thing that largely is the cause of woman's condition today. Is it not time for women to arise out of her meek submission to these things and insist that things be made better? If the husband can without the consent of his wife use the earnings of the farm or business as he sees fit, and hires any help he wishes, to make his own labor less, then the wife has the very same right! Now, is it making the best of things for her to say, "Oh, he will do that way and just won't let me hire help or outside work done and so I will have to make the best of it and do it all myself?" Pshaw, woman, where is your strength? Is it all devoted to submission? If a woman has so much work laid upon her that she cannot enjoy the same privileges that the man does then let her make the best of things, by the use of her strength in making surroundings that are wrong, better. Submission to that which is wrong, is not right, and just as long as any woman submits to those things she helps to keep the general condition of woman bad, very bad. If the man is a public-minded man with a wife who is also public-minded, the two should work together. The man should be very glad to hire work done for the wife as well as for himself, and to give his wife just as much spare time as he is ready to take for himself. But if the wife should not be of the same mind as the man it matters not. He should treat her as he treats himself, for "God created man in his own image, male and female created He them and gave them authority over all the earth," and the man and the wife are "one flesh." Their authority is God given and was given to both, not to one alone. Let woman arise out of her submission to burden-bearing and slavery and take unto herself that which God gave her. It is hers by divine right, and "making the best of things" is taking that which God gave her and by so doing helping

to make the world better. Remember that quiet, smiling submission is not making the best of things If we live as we should, we will not think so much of ourselves as we do of others and of what we are doing to uplift others. Are we living so that the world will be better for our being in it, and so be better for our children? Or are we just drifting on from day to day making the best of things. I say, no, sisters; it is all wrong. Arise and help for the sake of others to make this world better. You will never regret it. Let us be up and doing while we may. Do you want your daughter to live the kind of life you are living? No. Well, come to the front then and lend a hand, and win the reward that comes to everyone. And when on earth thy work is done and thy new work in Heaven begun, then you'll forget the crown you've worn while thinking still of others.

These talks on farm and home economy are valuable incentives to keep us in touch with what is being done in other places; our community (and we in it) may be far behind in the real partnership of husband and wife; but when we know what are conditions elsewhere, what other farm people are doing, it starts the seeds of thought to sprouting, and by and by the blade will show forth and then we will expect the fruit—a fruit of better things.

In lieu of an original contribution Sister A. S. Marshall sends to us from South Dakota a note and a little poem which she counts good enough to pass

Forty and one years ago Montgomery Ward & Company started the first mail order business in the history of the world.

It has had many imitators, but the strict standard of service and honesty—its foundation stone—has been the great distinguishing mark between this business and that of those who copied our methods.

From a bare little barn the business has passed to building and building until it is now housed in the enormous structure shown herewith—the greatest of its kind and the largest concrete building in the world, comprising nineteen million cubic feet.

The fifty acres in this building and the many other acres in its branches at Kansas City and Fort Worth, Texas, are filled with things *you* need.

This immense structure, and the great buildings of its branches, are monuments to the wisdom of the millions who insisted on buying their household and farm necessities at the lowest possible cost—with all the middlemen's profits cut out.

Without the confidence of millions of customers in forty and one years these buildings would not have been possible.

To those who are not customers of Wards we send this message:—

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This great book—the real solution of the high cost of living—will be sent to all who ask for it—Free—upon request without any obligation whatever.

A post card will bring it. Why not sign and send now. Address Dept. Y17

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who wanted to buy the goods they used
at the lowest possible price.
This is the home of the sure square-deal,
where profits are short and values *real*,
Where furniture, foods and clothing are sold,
as well as the needs of farm and fold.
This is the source—the home of supply—
where there's *never* a question of prices high.
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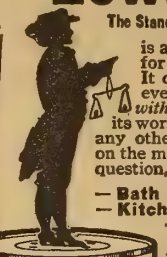
Cleans like Magic Without Scouring

In addition to its value on the farm as a preventive of hog cholera—as a disinfectant—as a water softener and for making soap—

Lewis' Lye

The Standard for Half a Century



is a household necessity for cleaning purposes. It cleans anything and everything like magic, *without scouring* and does its work with less labor than any other so-called cleanser on the market. It is, without question, best for cleaning

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Engraving Dept. Des Moines, Iowa.

along. It is entitled "Little Things That Count:"

How often in our busy life
We speak a bitter word;
We care not who the listeners are,
We care not where 'tis heard.
We do not know within our heart
To what it may amount,
And, truly, it is only one
Of little things that count.

We often wound the trusting heart
By being insincere;
We do not think that which we do
May cause a lonely tear,
We give it but a passing thought,
And bother not about
The little things that rise and cause
The trusting heart to doubt.

We often wrong within ourself
The ones who love us true,
Because they tell us of a fault;
We're all impatient, too.
And do not down the angry words
That to our lips may mount,
But watch and wait; 'tis only one
Of little things that count.

How often from our very heart
We let our anger rise,
And never mind the pleading looks
That come from soulful eyes;
We crush, we bruise, in passion's hour,
And scorn the falling tear;
Little things, oh, little things,
What sorrow wrought you here!

You count, oh, yes, you little things,
You count, but not for gain;
You count to sadden trusting hearts,
You count for naught but pain.
You count as clouds in someone's sky,
You darken someone's day;
O cruel little deeds and words,
We can't undo, unsay!

Then ever speak the kindly word
Instead of one of pride;
'Twill banish sorrow from a soul,
And anger turn aside,
The loving word and deed and glance,
Is borne on angel winds,
And angel voices echo true:
Be kind in little things.

I have been so pleased with some of the poems Among Ourselves that I think some would appreciate these lines from Kathryn Murray. How often the least of things we may do or say, will either gladden or sadden the hearts of others? If we all would save the poems and short verses collected here and paste in a scrap book we would have a treasure for ourselves as well as for our children in after years. Let us save them all.

Of all people on earth, it is the farmer who ought to appreciate the value of "little things." Does he not deal with these "little things" day in and day out, year by year, seeds and cuttings, each one dropped or set in its prepared place; the furrows are turned one by one, little stream after little stream fills the milk pail, one by one the forkfuls fill the hay mow; one by one the eggs are laid, eggs that so often feed and clothe the farm family? Oh, the one-by-one steps we take to accomplish the one-by-one tasks! "Little things." Yes, and they have a vast content in a lifetime to weigh for evil or good.

Have you boys that you are training for a life of manly worth? Lucile Masden knows that "The Sky Pilot" will be your helper in that great and heavy task. The other Ralph Connor books are fully as good to help give a boy real ideas of true manliness:

"The Sky Pilot," by Ralph Connor, is not a new book, but one I think every one should read. The scene is laid in the foothills of the Rocky Mountains. The sky pilot is a young missionary who went out to work among the rough cowboys, did a great work. He was dubbed "the Sky Pilot" at first in ridicule, but won his way into the hearts of the cowboys and became a real pilot to more than one. We can all learn a lesson from the life of little Gwen, who had never herd of God till the coming of the pilot. After her accident she chafed at her misfortune for a time, but gave her life into the keeping of the master and the cowboys loved her all the more. The pilot worked among them and became a true friend. He died as he had lived, trusting God that it was for the best. After his death the cowboys took up the work that he had left unfinished; the pilot's life living on in their lives.

And we must have a word today for our kitchen service department: so "Sister D. C." has a word for our listening ears along that line. "If asked in a kind way," she says, "there is the secret of securing co-operation, more particularly in new and untried lines." The right time, the right place, the right way are essential parts of successfully putting plans into operation. And never forget the word of appreciation:

Where there is only one to do the work where there is a large family or a lot of help, I think she would find this plan a great help. Have each one take his dishes out from the dining room to the kitchen as he leaves the table. I think all men if asked in a kind way would be glad to do it, as it would be no work for them and a great help where there is only one pair of hands to do everything. When she went to do the dishes the dining-room table would be cleared. It not only saves steps, but saves the table cloth from being soiled, as the dishes are never packed upon it. Ask your men.

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THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

HOW AWFUL!

(First prize.)

One night last summer we had a bad storm when papa was away. Our little sister was much impressed. Next day she came to mama with the following question: "What if we had an awful storm, and the wind blowed the roof off, and

ATLANTICA, A SILVER BADGER.

the rain wet our beds, and we had to go down cellar, and the wind blowed our lamp out, and there was a big dog down cellar, and he had great big eyes and big teeth, and he barked at us, and we didn't have stones to throw at him, what would we do?"—Zelah.

A Morning Walk.

(Second prize.)

One of the pleasantest things I enjoy is a long walk in the springtime. I usually get up about four o'clock in the morning, help my mother get breakfast, and after breakfast I have my share of the morning household duties. Then I take my walk.

It is good exercise to take a walk to the woods, especially if they are not too far away. As we live close to the woods, I walk there each morning.

I find the air very cool, and pleasant. The birds are singing in the forest and the squirrels are frisking from tree to tree. I learn the names of many birds, and I love to hear them sing. They are not afraid of me, and they sing their sweetest songs, as I sit under the trees to rest. The squirrels will come very near me, and eat corn from my hands. There are many kinds of flowers that grow in the forest. A large stream goes through the woods. On the banks of the stream, and in the edge of the water many beautiful flowers grow. The flower I admire most is the water lily; it is a very beautiful flower. There are also many other beautiful flowers in the woods. I know the names of most of the flowers.

In the fall I gather the nuts, which are of a great variety. There are

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You take no chances. We ship the gates. We let you try them, test them, compare them with any other at any price. If they are not the best ship them back at our expense.

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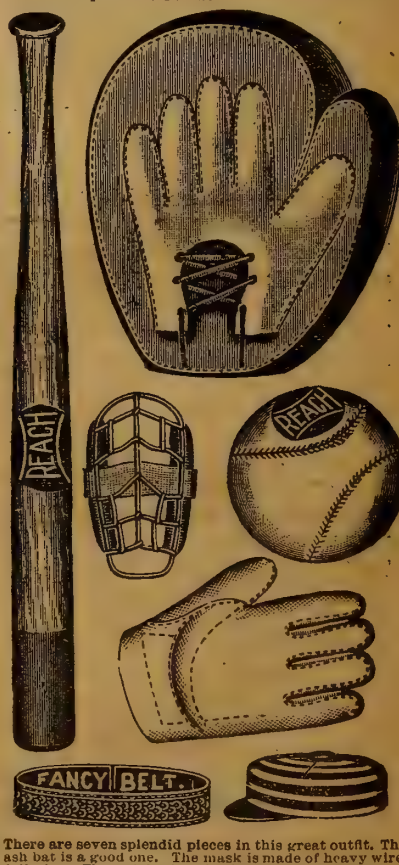
Free to Boys

Solve this Puzzle

H--S W-G--R

Can you fill in the blanks above and complete a well known baseball players name? You can if you try. Just write and tell me whose name it is and I will tell you how you can get the fine complete baseball outfit pictured below.



There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 840 Popular Bldg., Des Moines, Ia.

also many oak trees. I love to roast the acorns, and am very fond of them. I find it very interesting to watch the squirrels gather and store away the nuts for winter. The brook sings of spring, as it goes onward to seek the ocean, where it is happy to be free again.

I find many interesting things, and when I get home I feel much refreshed. It is very pleasant to take a walk in the morning and breathe the cool, fresh air. I think every boy and girl should do the same. It will make them strong and healthy.—Izetta Bowlby, age 13.

A Strange Man.

(Third prize.)

About twenty years ago there was a man that came to our country; he came from Bohemia, so he was a Bohemian. This man is very queer; he says he took but one drink of water in his life. He is quite an old man. He drinks about twenty cups of coffee a day. He has been in poor health for years.

This shows that a person needs water. This is a true story, for I know him; he is one of our neighbors.—Alpha Pittsley, age 12.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 12, Amos 5; 1-8. June 22, 1913.

THE BLINDING EFFECTS OF SIN: TEMPERANCE LESSON—THE STORY.

The old accepted idea of a prophet was far too mechanical. It reduced him almost to an automaton, moved by an infinite will and speaking words the import of which he himself did not at least fully understand. The very derivation of the word "prophet" should have corrected this false notion. It signifies "to boil over." What the prophet observed in ethical conduct of people and moral tendencies of church and state was lodged in mind and heart like water in a kettle. Reflection upon it was like fire. His feelings seethed within him until they boiled over in hot denunciation of evil. The Hebrew prophet was essentially the reformer of his age. He was pre-eminently patriotic and devout. Of this Amos is a striking illustration. Amos's prophecy has been described as a thunder storm rolling over all the surrounding kingdoms touching Judah, and finally settling down upon Israel. This epoch in the history of the northern kingdom has been, not inaptly, called its "Indian Summer," because of its glory, and also the nearness of the winter of its desolation. The ancient limits of the kingdom and its former splendor were regained under Jeroboam II. Wealth was suddenly poured into the coffers of the princes. It was the wealth of conquest, always attended with the temptation to oppression and luxury. You will search in vain for a more graphic description of a self-indulgent people than Amos gives. They enthrone violence at once, and esteem judgment deferred. They recline upon ivory divans. They stretch themselves upon their couches—beside their banquet tables laden with every delicacy. They use for an ignoble purpose the instruments which David invented for the worship of God. They substitute bowls for wine cups. They use the finest oil in their boudoirs. How can such sensualists perceive, much less be grieved for the moral havoc made of their country? The prophet speaks their doom. The banquet, before which they stretch themselves, shall be swept away before they can eat it. Are they first in luxury? They shall not lose their rank. They shall be first in captivity also. The cup of Israel's iniquity is full. So the Lord says, by the voice of Amos: "I abhor the excellency of Jacob, and hate his palaces. Therefore will I deliver up the city with all that is therein."

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending June 15, 1913:

With the exception of light local showers over the northern half of the state on Friday night or Saturday, the week was dry and generally clear. The temperatures were, however, unseasonably low during the first four days, and light frost occurred in many localities on one or more nights. While the weather was too cool for corn and garden truck all conditions were exceptionally favorable for field work, and the cultivation of corn has progressed rapidly. About all of the early planted fields have been plowed once and many of them twice. Practically all of the corn is planted, but some low ground that was intended for corn is still too wet to plow and will be used for cane, millet or buckwheat. The acreage of corn will, however, be about the same as last year. The cool, dry weather has been beneficial to small grain, most of which is heading nicely and is in fine condition. Considerable alfalfa was cut and put up without injury by rain, and clover will soon be ready to harvest. Haying will begin in the southern counties during the coming week, with every indication of heavy yields. Strawberries are beginning to ripen, but need rain to mature a full crop. The week closes with much warmer weather, and all indications are promising, but rain would be acceptable to soften the surface of the ground.

The following summary by the secretary of the state horticultural society shows the average condition of fruit on June 1st: apples, 73 per cent; pears, 48; American plums, 51; domestic plums, 48; cherries, 54; peaches, 71; red raspberries, 77; black raspberries, 83; blackberries, 85; grapes, 89; currants, 78; gooseberries, 70; strawberries, 76 per cent of a full crop.

Report on the acreage of staple crops cannot be given, as data have not been received from township assessors.

George M. Chappel, Sec. Dir.

A bill to create a abureau of public high-ways in the department of agriculture, was introduced in congress by Representative Campbell, of Kansas. An appropriation of $24,000,000 to be used in co-operative work among the states in proportion to population was proposed.

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"Sheds Water like Yours Truly"

ABSOLUTELY WATERPROOF STACK AND MACHINE COVERS

OUR stack and machine covers made of the very best quality of duck and treated with **Slickerine** wear twice as long as others and are absolutely waterproof. They stand hardest use—never mildew, get stiff or break. Covers 9 ft 4 in., or over, strips run the short way, draining water perfectly and adding great strength. Manila ropes 4 ft. 8 in. apart. Guaranteed full size and weight. Write for free booklet. Reference, Illinois National Bank.

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Rider Agents Wanted

in each town to ride and exhibit sample 1913 bicycle. *Write for special offer.*
Finest Guaranteed 1913 Models **$10 to $27**
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All makes and models, good as new . . . . . **$3 to $8**
Great FACTORY CLEARING SALE
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THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high grade, perfect fitting, seam allowing patterns at 10 cents each postage prepaid. Full directions for making as well as the amount of material required accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5998 Misses' Dress.—A charming dress for the miss and small woman is presented in this design. The dress closes at the front and has a two-piece skirt which may be made with either the empire or regulation waistline. The collar, vest and cuffs are made of contrasting material and striped fabrics is very nice for this purpose.

The pattern 5998 is cut in sizes 14, 16 and 18 years. Medium size requires 5⅝ yards of 27-inch material, ⅝ yard of 27-inch contrasting goods. Price of pattern ten cents.

6170 Children's Dress.—This pretty little dress is cut in one piece. It can be made with or without the belt. The pattern provides for a pair of bloomers which is attached to an underwaist. Linen, percale, gingham or silk can be used to make this dress.

The pattern 6170 is cut in sizes 2, 4 and 6 years. Size 4 years requires 2¾ yards of 44-inch material, ⅛ yard of 27-inch contrasting goods and ⅜ yard of 36-inch material for the underwaist. Price of pattern ten cents.

6105 Ladies' Apron.—A splendid apron design is here offered and one that any woman can finish in a few hours. The pattern includes separate sleeves. The apron may be made of gingham, percale, chambray or sateen and is a good-looking as well as a serviceable model.

The pattern 6105 is cut in sizes 34, 38 and 42 inches bust measure. Medium size requires 5 yards of 27-inch material. Price of pattern ten cents.

6141 Boys' Dress.—This dress is just the thing for the small boy who has not yet worn the regulation bloomers. It is made with a removable shield and can have either the long or short sleeves. Linen or gingham can be used to make this dress with the collar and belt of contrasting material.

The pattern 6141 is cut in sizes 1, 2 and 3 years. Size 2 years requires 1½ yards of 44-inch material, ¾ yard of 27-inch contrasting goods and 15½ yards of braid. Price of pattern ten cents.

6172 A New Four-Gored Skirt.—For all tailor-made styles and also for many others the skirt with plaits somewhere about it is a pronounced favorite. The four gores give a center back seam, and the side front seam provides a convenient place for the closing. Serge, linen or cheviot can be used to make this skirt.

The pattern 6172 is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅝ yards of 36-inch material. Price of pattern ten cents.

Agents Wanted

Sell the Barnett Sanitary Vacuum Cleaner. Fully guaranteed. Every woman wants one. Best proposition ever offered.

Make $10 to $15 Daily

Write today for prices and circulars.

JOS. BARNETT & COMPANY,
Riverside, Iowa.

When writing to advertisers please mention The Homestead.

DATES FOR LIVE STOCK SALES.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.
Oct. 24, Geo. Leigh and Wm. George, Aurora, Ill.

Short-horn Cattle.

Oct. 14, C. J. McMaster, Altona, Ill.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank Bros. & Kleen, Franklin, Neb.

Holstein-Friesian Cattle.

Oct. 1 and 2, Holstein Breeder Company Combination sale, Painesville, S. T. Wood, manager, Geneva, O.
Oct. 21-22. Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Kellogg, Ia. (Sale at Newton).
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Poland China Swine.

June 25, Peter Mouw, Orange City, Ia.
Aug. 6, M. P. Hancher, Rolfe, Iowa.
Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, J. W. Pfander & Sons, Clarinda, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 16, Thos. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Thos. F. Walker & Son, Alexandria, sale at Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 20, C. B. Powers, Aurora, Neb.
Oct. 21, C. W. Francisco, Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 6, W. E. Epley, Diller, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.

Hampshire Swine.

Oct. 14, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Guy J. Pote, Bridgewater, Iowa, has for sale a number of Shetland ponies as will be noted in the advertisement on page 21. He quotes reasonable prices on them.

Louis Moeller, Everly, Iowa, has nicely marked Fox Terrier pupies both male and female, also two grown females, that he is offering for sale in his advertisement that appears on the poultry page of this issue.

Thirty Duroc Jersey fall sows and twenty-five fall boars are advertised for sale by L. L. De Young, Sheldon, Iowa, on page 23. He is pricing these at $25 to $35 and can fill orders for pairs or trios as parties wish.

Ten head of good Chester White sows bred for fall farrow and a good herd boar are offered for sale by G. H. Tutt, Marathon, Iowa, on page 23. Fifty dollars takes the boar and $40 gets the sows. Send him your order at once.

John I. Dripps, Springville, Iowa, announces on page 21 that he is now ready to fill orders for good Poland China boars of fall farrow at the rate of $35 to $40 each. They are from 250 to 275 pounds and good enough for anybody. Write him for prices.

One of the largest herds of registered Holstein cattle in the middle West is maintained at Woodlawn Farms, Sterling, Ill., and there is not a want in the Holstein line that cannot be well and satisfactory filled at this big breeding establishment. Bulls of the strongest breeding are at the head of the herd and the females are all either cows with a record or from high-producing ancestry, so that no matter what you buy at Woodlawn you can rest assured that you are getting something that is right. Manager Williams invites inspection of the herd, knowing that it is of the highest class, and will always give a good account of itself. If you are in the market for Holstein cattle you will make no mistake by getting in touch with Woodlawn Farms. The advertisement appears on page 11.

High-grade Holsteins cows and heifers, due to freshen soon, are offered on page 11 by W. C. Kenyon & Son, Elgin, Ill., who will supply one or a car load.

C. Toom, Pella, Iowa, announces in an advertisement on page 21 that he has for sale seventy-five head of high-grade Angora goats. They may be seen by calling at the farm near Howell Station, located on the Wabash.

Some good Short-horn bulls are advertised for sale by W. M. McLaughlin, Shelby, Iowa, on page 22. He also offers a splendid herd bull for sale. If any of our readers are wanting a good bull it will pay them to call and see Mr. McLaughlin.

F. P. Ryan, Ryan, Iowa, offers for sale a good registered Holstein-Friesian bull, three years old. He is described as an individual of high excellence and will be sold at a reasonable price to a quick buyer. Write to the address named.

J. A. Penn, Alta, Iowa, wants to buy a male Black and Tan Rat Terrier dog. Any reader of this paper who has a strictly good animal of this description for sale should write to Mr. Penn. He does not require that the animal be recorded, but he does want a pure-bred one.

Some unusually good big-type Poland China sows bred to Mouw's Big Sioux for fall litter are adxertised for sale by George Glynn, Sioux Rapids, Iowa, on page 23. Any breeder that sends an order for these sows will be well pleased, as they are bred right and are right in every way.

Breeders of Short-horn cattle will be interested in the announcement that J. A. Richardson, Wall Lake, Iowa, will hold a public sale on December 9th and that C. A. Oldsen of the same place will sell on the following day. Both have good herds and will put up an excellent lot of cattle.

Maurice Green, R. R. 1, Wayland, Iowa, who breeds Aberdeen Angus cattle, now has for sale his herd bull and a number of younger bulls. The herd bull is a son of the noted Prince Ito and therefore carries blood lines as good as the breed affords. Write him for prices or further descriptions.

Readers who are admirers of Shetland or Welch ponies will be interested in the herd owned by Theodore S. Simpson & Sons, Aurora, Ill., which is advertised on page 21 of this paper. The herd numbers more than 300 head and is therefore prepared to supply good ponies of any description and at reasonable prices.

If any Homestead readers are on the market for a good Duroc Jersey fall boar they should read the advertisement of W. J. Wendt, Remsen, Iowa, on page 23. He has quite a number for sale and they are good and he is pricing them from $25 to $50 as long as they last. Order one of these now and save on the boar you would otherwise buy this fall.

The good, old Electric steel wheels advertised on page 8 have rendered hundreds of thousands of dollars' worth of service to farmers who realized its merits and made use of it. The low steel wheel is right serviceable and a labor saver from every point of view. Illustrated catalog and special price list may be obtained by writing to Electric Wheel Co., 58 Elm St., Quincy Ill.

Some corking good Poland China fall boars are advertised for sale by F. E. Jackson, Hurley, S. D., on page 23. These are sired by the great boar, Dale's Expansion, a hog that is regarded as one of the best in the northwest. He was the pick of the boars in the Henry Dorr herd in 1911. Mr. Jackson also offers some splendid sows for sale bred for fall litters to this same boar. Try him with an order and mention The Homestead when writing him.

Any young man who has extended experience in the care of hogs may learn of an excellent situation by referring to the advertisement of the Woodlawn Farm Co., Sterling, Ill., which appears on page 7. Woodlawn Farm raises both pure-bred and market hogs, so that the opportunity to take charge of that department is one having a wide and promising feature. None but dependable men need apply for this place. Send inquiries to the address named.

The big Montgomery Ward & Co. advertisement on page 15 suggests the wonderful magnitude of the business operation of that firm. For forty years Montgomery Ward & Co. have been selling goods to farmers on the mail order plan. They have sold millions of dollars' worth and saved their customers an immense amount of money. They are still continuing to do so. The big free catalog containing 1,000 pages of bargains may be had by sending a postal card request to Montgomery Ward & Co., Chicago, Kansas City, Mo., or Ft. Worth, Texas.

A few days since a representative of this paper visited the Duroc Jersey herd of A. R. Olson, Woodward, Iowa. It was in Mr. Olson's herd that the great hog, Golden Model, achieved such wonderful popularity, and a good many daughters of that great hog still remain in the herd. Mr. Olson has about fifty spring pigs, the get of A. R.'s Professor and A. R.'s Golden Model. A. R.'s Professor is by V. Professor and his dam is by a son of Ohio Chief. The hog is a good one, having a magnificently arched, broad back, deep, smooth sides and an excellent set of teeth. A. R.'s Golden Model is by Golden Model. His dam was a daughter of Model Chief and his grandam a daughter of Topnotcher Chief. The sires in the herd are by Golden Model, Advancer No. 1, Waveland Col. and S. E.'s Defender. They are an exeellent lot of brood sows with plenty of size and nice finish. One of them in particular is a full sister to the great Waltemyer Bros. hog, Golden Model 2d. She has an excellent litter of six pigs by A. R.'s Professor, and from the lot a selection will be made to show at the Iowa State Fair.

W. Z. Swallow, the veteran breeder of Poland China hogs, whose activity in Poland China circles covers a longer period of years than any other breeder now in the business, is fitting a few good pigs for the fall show at the Iowa State Fair. They are real big ones, as competitors will find out when they are driven into the ring.

M. W. Young, Ankeny, Iowa, who has expended a good deal of careful thought as well as considerable cash in the establishment of an excellent herd of Chester White hogs, has, as a means of bringing his herd into greater prominence, determined upon the holding of a public sale on October 14th. Later announcements will appear in this paper concerning the consignment.

Ed Seckington and C. B. Hilfiker, North English, Iowa, will hold a public sale of big-type Poland Chinas on October 23d. They expect to sell about sixty head of good boars and gilts of approved blood lines. Mr. Seckington will have some good fall boars by Big Bone I. X. L. and a fine lot of spring pigs by Black Jumbo by Big Bone and Grand Chief. Mr. Helfiker will have some good fall gilts by Young Expansion and his spring pigs will be sired by Blue Valley Chief, Long Expansion and Victor Price. Full particulars will appear in The Homestead in due time.

Anyone interested in veterinary medicine should write the St. Joseph Veterinary College, St. Joseph, Mo., for their 1913 announcement. The college is in its ninth year and expects to occupy a new building by next fall. They made a phenomenal increase in last year's attendance amounting to more than 50 per cent over any previous year, being the greatest in the history of the school. Upon completion of the three-year course of seven months each year the degree of doctor of veterinary medicine is conferred upon graduates. Dr. F. W. Caldwell will lend his assistance to any student desiring to find employment to pay part of expenses. The expenses including tuition, board, room and books is very reasonable. For further information write to above address.

Mastodon Prospect for Sale.

On page 23 W. H. Barr & Son, Elliott, Iowa, offer the big-type Poland China yearling boar, Mastodon Prospect, for sale and he is a boar that is good enough to head any herd. They also have some good fall boars and some bred sows for sale and at prices that everybody can afford to buy. Write them at once about these.

The Latest Cartercar.

The advertisement of the Cartercar on page 6 tells the whole story in a few words. Every possible device which will insure safety, good service and ease of operation has been employed in the construction of the Cartercar. Each of these devices is fully described in the new catalog, for which write to the Cartercar Co., Pontiac, Mich.

Linwood Cumberland For Sale.

On page 22 Powell & Son, Linn Grove, Iowa, advertise to sell a splendid young Scotch bull for sale in Linwood Cumberland, a son of the Iowa State Fair champion bull, King Cumberland 2d. He is a royally bred Miss Ramsden and is good enough to head any of our best herds. Make it a point to write Powell & Son about this bull and do it right away.

Missouri Auction School.

Those who contemplate entering the field as auctioneers should write the Missouri Auction School, 1400-04 Grand Ave., Kansas City, Mo., for their big catalog of Home Study Course. It is free and at the same time you will get complete information of the actual practical course which opens August 4th. See advertisement on page 21.

Short-horn Bulls for Sale.

Anybody wanting a good Scotch or Scotch-topped bull should read the advertisement of Held Bros., Hinton, Iowa, on page 22. They are offering some splendid young Scotch bulls for sale that are good enough to head herds, also some choice Scotch-topped bulls. Their prices are very reasonable on these bulls. Write them at once or go and see the bulls they are offering for sale.

Scotch Collies for Sale.

In the Poultry Department Le Roy, Brown, Lamoni, Iowa, starts a Scotch Collie advertisement and he is offering some very choice sable and white puppies for sale. He writes us as follows regarding them: "They are sired by Hilander II. 148502, dam Willing Lassie 148503, two of the very best heel driving dogs in the state. I am offering the females at $5 and the males at $10 each. I am sure any one ordering will be pleased with these puppies." Send your order to Mr. Brown for one of these at once and kindly mention The Homestead.

Lineweaver's Durocs.

H. W. Lineweaver, South English, Iowa, has the best lot of spring pigs we have ever seen on his farm. They are largely sired by H. & B.'s Ohio Chief, a grandson of old Ohio Chief. This boar is certainly doing great work for Mr. Lineweaver, having sired a great lot of good Durocs. There is also a litter by Model Wonder, one by Golden Model 30th, and one by Select Again. Mr. Lineweaver will make a sale on October 10th and will sell the choice of his spring pigs together with some extra good fall yearling and spring yearling sows sired by Select Again and H. & B.'s Ohio Chief. Mr. Lineweaver has been working along right lines in his breeding operations and he can be proud of the high quality of the Durocs he will sell in this October sale. Full particulars will appear in due time.

Sanosen for Hog Worms.

On page 8 of this paper there appears an advertisement announcing the merits of Sanosen as a means of destroying hog worms. It is a concentrated and powerful preparation, yet cheap and thoroughly effective. The advertiser announces that it not only destroys worms, but rids the animals of them permanently. Note the price named in the advertisement and send orders to the Downs Mfg. Co., Bloomfield, Neb.

Harding's Duroc Specials.

On page 21 of this week's issue R. J. Macedonia, Iowa, is offering twelve good fall boars sired by the great boar, Col. Gano, and Chief's Protection and he is also offering from ten to fifteen yearling and aged sows bred to Col. Gano for fall litters. This is one of the first times that sows have ever been offered for sale bred to this great boar. We have maintained that Col. Gano was one of the greatest show and breeding boars now living and we will stand by our opinion. The breeder who wants to buy a sow bred to this noted sire should lose no time in getting their order to Mr. Harding. When writing him kindly mention The Homestead.

Brown Sells Short-horns.

In a recent letter from Perry O. Brown, Lamoni, Iowa, he says: "I just sold Grigsby & Barber, Skidmore, Mo., seven choice young heifers, E. C. Lindberg, Essex, Iowa, six, and G. A. Bonewell, Grinnell, Iowa, six. Also a good young bull calf to B. M. Murray, Tuskego, Iowa, and one to R. H. Gorsuch, Lamoni, Iowa. These were all sold the same week. Business has been good with me and you can say to Homestead readers that I always have something good on hand. Tell the boys to write me or come and see me if they are going to want anything in the Short-horn line." See page 22.

Henderson's Chester Whites.

H. T. D. Henderson, Keota, Iowa, a well-known breeder of Chester White swine, has 100 spring pigs largely sired by Perfection Chief and Joe O. K. He has a few litters by Elmore's Choice, Silver Tip and Chief Combination. There are some extra good spring pigs in the lot and a number that look like the making of herd headers. There are three December boars sired by Joe O. K. out of a Combination 2d dam that are good. Mr. Henderson has three fall gilts that would make a strong show in the under-year class at any state fair if properly fitted. Mr. Henderson will start an advertisement in The Homestead later in the season.

The New Detroiter.

A sensation in the way of automobiles is the Detroiter of which considerable mention is made in the big advertisement on page 24. The Detroiter has all the advantages of other high-class cars with some others that they do not have. It is sold at the remarkably low price of $850 fully equipped. It is made in five models, twenty-five horsepower, equipped with speedometer and with electric lighting system and all other conveniences now in demand. Our readers who want complete information should write to the Briggs-Detroiter Company, 603 Holbrook Ave., Detroit, Mich., or T. G. Northwall Company, distributors, Omaha, Neb., or Illinois Automobile Company, distributors, Chicago, Ill.

Westrope Sells Bulls.

Bull trade has been good with J. G. Westrope, Harlan, Iowa, and he has sold to the following parties: Sam Morgan, Jr., Henderson, Iowa; J. P. Loomis and J. P. Mayhew, Villisca, Iowa, each got a good young bull. Also Henry Jacobs, Walnut, Iowa, and D. A. Cobb, Harlan, Iowa. These parties personally selected their bulls and were well pleased with their bargains. He still has a Cruickshank Victoria sired by American Goods, the $1,200 son of old Choice Goods and he has a good two-year-old bull sired by a son of Nonpareil Prince. He also has quite a few good young bulls on hand and he is offering these for sale at prices that are within the reach of any farmer or breeder. Write Mr. Westrope about these bulls or go and see them.

Osborn's Durocs.

The other day we dropped in on O. E. Osborn, Weston, Iowa, and found he had about 125 head of good pigs and they were coming along fine. These are sired by the Col. Gano boar that he bought in the Seddon's sale last fall and by the way, this boar has done fine. He is large and he is good and he is going to make a pretty good showing this fall if nothing happens him. He very much resembles his sire, in conformation, color and general makeup. His pigs are showing up well and it looks like he is going to develop into one of the best boars Mr. Osborn has ever owned. The remainder of his pigs are sired by the Valley Col. boar that topped the Barker Bros. sale last fall. Mr. Osborn has a good yearling boar for sale and some good fall boars.

Reduction of Tire Cost.

Only a short time ago tire cost was one of the biggest expenses the motorist had to meet. A journey of any length over rough roads and a resulting blow-out or deep cut in the outer casing meant new tires immediately. Now, however, these things can occur many times before new tires are even considered. This change has been brought about by Narco Tire Cut Filler, a rubber compound that successfully heals tire cuts. An advertisement of this product appears on page 6. It is a scientific combination rubber cement, cut filler and mastic—non-inflammable and self-vulcanizing. It repairs, cuts, cracks, blow-outs and punctures, filling up the cuts and healing quickly. When healed it has formed a permanent plug of resilient rubber, welding the torn parts of the tire together and a part of the tire itself. The National Rubber Company, St. Louis, Mo., manufacturers

of Narco Tire Cut Filler, will send a large-size tube prepaid to every reader of The Homestead who writes for it, enclosing $1, money order or currency.

Scotch Collies for Sale.

J. E. Smith, Victor, Iowa, has six male Scotch Collie pups six weeks old, sable and white in color and from an excellent working sire and dam, that he will sell for $5 each if taken within the next few days. The dam is a natural heeler and is a very valuable assistant on Mr. Smith's farm. This affords those wanting a Scotch Collie an opportunity to get one at a very reasonable price. They cannot help but please you. See the advertisement in Poultry Department and send Mr. Smith your order.

Nagel's Chester Whites.

E. L. Nagel & Son, Deep River, Iowa, well known for a number of years as exhibitors and breeders of high-class Chester Whites, were recently visited by a Homestead representative and we found an excellent lot of the Chesters. They have about seventy-five spring pigs and they are a fine bunch, largely sired by their noted sire of champions, Lewis E., and they also have some great pigs by Col. Evans, a son of Combination 2d. They are fitting Combination 2d for show and he bids fair to make trouble. They also have some extra good under-year sows and boars sired by Col. Evans and Lewis E. This herd is looked upon as one of the foundation heads for breeders to get foundation stock. Their advertisement will appear later.

Scotch Bull Bargains.

K. F. Dietsch, Orleans, Neb., is offering just now two very choice Scotch Short-horn bulls. These bulls are of the real herd-header sort, and they are bred as well as the very best. They are right up to the imported cows, and from excellent sires. Mr. Dietsch has one of the very good Scotch herds of Short-horns to be found within the state, and these bulls are out of some of his very best cows. Mr. Dietsch is a very progressive farmer, one that keeps nothing but the best in the way of live stock, and readers of The Homestead need not hesitate to order the bulls by mail, for you will be given a square deal absolutely. These bulls are being priced at just aoout half what they would bring in any of the good sales, and if this money is worth saving, write as above at once.

Isaacs' Durocs.

The other day we called on E. H. Isaac, Red Oak, Iowa, and found him with 125 head of spring pigs and his brother Jim has 100 head and we just want to say to you that they have pigs that are good for sore eyes. When it comes to raising pigs they will all have to take off their hats to these breeders. They are breeders who do not say much, in fact, they do not say enough, but they do raise good pigs and they are splendid hogmen. Mr. Isaacs' pigs are sired by Belle's Chief I Am, Big Crimson and Jumbo Critic, and his brother's pigs are sired by Jim's Mogul, a boar that he secured of Carey Cameron, Herman, Neb., and Valley King 3d, one of the top pigs in the Barker Bros. & Crowell's sale last fall. These breeders are going to have a splndid lineup for their fall sale later in the season.

A Good Agents' Opportunity.

The Positive Tire Vulcanizer which is advertised on page 2 of this issue is one of the most practical tools that has ever been put on the market for the automobile owner. It sells practically on stating the price, and does the work quickly and thoroughly. Any man who has had much experience with automobiles will realize that it will save from 50 to 75 per cent of his tire bill. It is very handy, convenient and can be put in the ordinary tool box of the automobile as it takes up very little room. We would suggest to any of our readers who are looking for a good agent's proposition that they fill out the coupon in the advertisement on page 2 and get further information. The company expects to back up their agents by giving them a line of co-operation. In writing the manufacturers, the Positive Tire Vulcanizer Co., Davenport, Iowa, do not fail to mention The Homestead.

Gates' Old-Fashioned Spotted Poland Chinas.

J. D. Gates & Sons, Ravenwood, Mo., breeders of spotted Poland China hogs have upwards of 200 head of spring pigs that are now ready to go to those looking for choice pigs at weaning time. These are sired by Spotted Giant, Spotted Mastodon and Peitzman's Wonder, three boars Mr. Gates selected as being the kind that sire pigs that grow big and prove valuable as breeders. They have made good and the pigs he now offers are spotted, have the bone, stretch and quality so essential in a pig that is expected to make good. Spotted Giant is rightly named, he is better than an 800-pounder now and is not nearly full grown, he is spotted and sires spotted pigs and if Mr. Gates finishes him off for the fall shows he will be a factor in any of the shows where big-type Polands are shown. His great, wide, arched back, full rounding hams, good head and character cannot fail to gain recognition. Spotted Mastodon and Peitzman's Wonder are sires of pigs in the same class with the Spotted Giant pigs and Gates & Sons are prepared to furnish large numbers that are not related. Among the good-producing sows in the herd is Comet, Miss Harkrader, Miss Harkrader 1st, 2d, 3d and 4th, Miss Spotted Giant, Miss Hutch and others of like quality. The senior member of the firm has been breeding big-type hogs for twenty-five years and has never lost sight of size and quality. Some of the very best boars of the herd have done service in his herd and all his hogs are so bred that they cannot fail to breed on. Gates & Sons have bred practically every member of the herd so that they know how to mate their hogs for best results. They record in the Standard Poland China Record Association and furnish pedigrees with every pig. On shipments by express they guarantee safe arrival and they guarantee everything to be as represented. They invite inspection of their herd as they know visitors will be pleased with their herd headers and string of brood sows. Note page 21 for their advertisement and if you want some of their hogs order now before the best have been sold. When writing these gentlemen kindly mention this paper.

Vaughn Offers Scotch Bulls.

W. W. Vaughn, proprietor of Wildwood Farm, Marion, Iowa, is offering for sale Scotch King, the fourteen-months-old Scotch bull sired by Rub, King, he by Diamond King and out of a dam by Brawith Lad, second dam the great imported breeding cow, Claudia 4th. Scotch King is a strong, growthy wide-backed, heavy-quartered bull that should head some herd. They also have a twelve-months-old bull by Brawith Lad out of Rosemary 15th by Scotch Ringmaster, that is an extra good low-down, smooth, good-ribbed bull that will suit someone looking for a high-class herd bull. This calf has the breeding, individuality and quality that will please the critical judge. They also have eight good line strong quartered calves from nine to thirteen months of age that are priced worth the money. Visitors are always welcome and they invite anyone interested in a good bull to inspect what they have before buying. They recently sold an exceptionally good ten-months-old calf to head the herd of W. A. Lynn, Grundy Center, Iowa. See page 21 and when writing kindly mention The Homestead.

Love's Ayrshires.

One of the very best Ayrshire herds that will be found in the West today is owned by Archie Love, Omaha, Neb. The herd now numbers about thirty head, but he expects to add to it, and with the natural increase it will not be long before he will have Aryshire for the trade. Some time ago Mr. Love and Mr. Fred Nash became interested in Ayrshires and together they purchased one of the best herds in Kentucky. Many of the cows in this herd were noted winners with splendid records as producers. Mr. Love and Mr. Nash divided the herd and both of these gentlemen have the nucleus for two of the best Ayrshire herds that have been established in the West. The Love Farm is located west of Omaha, and he has erected one of the finest and most up-to-date dairy barns that has been seen in the West. It has all the modern improvement and was built along the most sanitary and scientific lines. An artificial lake easily accessible to the cattle is one of the features of the farm, together with good pastures and well-laid-out roadways, and with other improvements now in mind it will not be long before he has one of the most complete dairy farms that will be found in the West.

Col. E. D. Snell, Auctioneer.

With this issue of The Homestead, Col. E. D. Snell, Cambridge, Neb., is starting an advertisement in which he asks a share of the pure-bred auction business of the country. The writer is well acquainted with Colonel Snell, and we wish to say that for the past number of years he has enjoyed a splendid business, and that we know that he has sold for many of the leading stockmen of the country, and has given universal satisfaction. He is a man of a great deal of experience, well posted on modern breeds of stock, and certainly has a money-getting way with his selling. He is clean and forceful, a gentleman in every particular and a person that The Homestead readers would be pleased to have as a friend. There is not the least doubt as to his ability as a salesman, and he is in position to furnish those that apply, a fine lot of recommendations. His best reference, however, is the fact that every man that employs him once seeks his service later. His prices are right, and we would like to see those that are in doubt as to whom to employ, to give Colonel Snell an opportunity to demonstrate his ability. We are confident that he will continue to get the business once he is tried out. The writer recommends him absolutely. See page 21.

Recent Pioneer Stud Farm Sales.

Manager J. G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "We had the pleasure of selling recently to William Fancher, Keokuk, county, Iowa, the imported Percheron stallion, Kolcotar. We are interested in this sale particularly for the reason that this is the seventh stallion that we have sold to Mr. Fancher. He has perhaps the best stud of Shire, Percheron and Belgian stallions in the state of Iowa today that are kept exclusively for public service. Other sales that we have made this month, not previously reported are: The imported Shire stallion, Abbott's Haymaker, to W. T. Head, Hendricks county, Ind. This horse was shown by us at four of the leading state fairs last fall and was never out of the money at either fair. This is the second stallion that we have sold Mr. Head this year. An imported Belgian to Foster & Trent, Laramie county, Wyo. The imported Shire stallion, Wrydeland's Commander, to W. Miller Osborn, Oneida county, N. Y. An imported Percheron mare and foal to that enterprising breeder, C. G. Corey, Houston county, Minn. This is the fourth imported mare we have sold him this season. William Yates, Laramie county, Wyo., purchased an imported Shire stallion, D. G. Rainigh, Laramie county, Wyo., purchased an outstanding imported Shire stallion. Walter J. Hill, son of J. J. Hill, St. Paul, Minn., purchased the noted imported Shire stallion, Gold Cup, bred by His Majesty King George of England, and imported by us this spring. We still have an extraordinary fine collection of Shire and Percheron stallions for sale and are making attractive prices in order to make room for our annual June importation that left London on the 14th inst. It is very encouraging to us to note the success of the Shire mare, Carlton Graceful, champion at the recent Calgary show and also of the Shire stallion, Pride VI, champion at the Edmonton show. Both of these animals were purchased from us, which fully demonstrates that the Truman horses are in a class by themselves."

Messenger's Hampshires.

Clayton Messenger, Keswick, Iowa, the well-known breeder of Hampshire swine, is a man who has attained a national reputation as a breeder and exhibitor during the past few years, probably better known as the owner of the undefeated champion boar, Messenger Boy. This great boar is looked upon by the majority of breeders as the greatest Hampshire boar living today. Nearly every breeder has an ambition to own a son or daughter of this great boar. Mr. Messenger recently refused $1,250 cash for Messenger Boy and after looking over the grand bunch of sows and young stuff sired by this boar we believe Mr. Messenger was wise in refusing this tempting offer. About 200 spring pigs, a large number of them sired by Messenger Boy, were found on the Messenger Farm. They are a very promising lot and a sale of seventy-five boars will be held the fourteenth of October. This event will interest every breeder of Hampshire swine in the United States. It should attract breeders from many states as the high quality of the offering, the breeding and the integrity of the man selling will justify a large attendance. The show herd this year will be largely sired by Messenger Boy and on our recent visit we saw some sows in the different classes that looked like champions. See page 23.

Chief Select Dead.

On June 10th the noted Duroc Jersey boar, Chief Select, owned by William Reed, Rose Hill, Iowa, died. This is one of the greatest losses the Duroc Jersey breed has suffered in a long time. While it is a great personal loss to Mr. Reed, yet the benefit of the progeny of Chief Select upon future generations in the Duroc Jersey breed is hard to estimate. In Mr. Reed's hands this boar was working wonders as a sire. His sons and daughters were in demand throughout the entire corn belt. Chief Select was considered by many as one of the greatest, if not the greatest breeding boars in the state. He has sons at the head of many of the very best herds in the land and they are making good. A great boar like Chief Select when in the hands of a real constructive breeder like William Reed, has the greatest opportunity possible to work general improvement in other herds. It is only in the hands of a master breeder that such great boars can be of the greatest benefit to the breed, and that is why it is unfortunate that the death of this great boar should occur at such an inopportune time. Mr. Reed has at different times refused what seemed exorbitant prices for Chief Select, but he knew that he could not obtain another boar to fill his place. Every Duroc Jersey breeder will extent sympathy to Mr. Reed in his great loss.

Col. N. G. Kraschel, Auctioneer.

Readers of The Homestead and thousands of stockmen throughout the West will recognize the illustration herewith of that rising young auctioneer, Col. N. G. Kraschel, Harlan, Iowa, who has done such splendid work the past several years in the selling of pedigreed live stock. Few men in any profession have risen any more rapidly nor have they done any better work than has Colonel Kraschel since he came into the West and solicited the patronage of the western breeders. In turn he has given them the very best he had and his work has been thoroughly satisfactory. He is an orator of no mean ability, a gentleman both on and off the block, a student of pedigree and values and withal a char-

acter who has dignified the profession he represents. Breeders have liked him because he was honest, reliable and trustworthy, and this has been a marked feature of the sales that he has conducted. That it pays is best evidenced by the rapid rise of this capable young auctioneer, and his career has just begun. He has made many of the most prominent hog sales throughout the West of late years and also has been on a lot of the best cattle sales, and his work there has been well received, so much so, that he is booked for some of the leading sales the coming year, and we predict for him a splendid future. To any breeder, whether it be cattle or hogs or horses, who contemplates making a public sale and wants a capable, painstaking and competent auctioneer, we will say to them that they will not make any mistake if they employ Colonel Kraschel. He will get you the money, and he will get it for you in a way that you will feel well repaid for engaging him to conduct your sale. Write for dates if you are going to make a sale this fall or winter. See page 21.

Harrison & Harrison Offer Angus Bulls.

With this issue of The Homestead Harrison & Harrison, the well known Angus breeders of Indianola, Neb., start an advertisement in which they offer a choice lot of Angus bulls of serviceable ages and they also have for sale at all times a choice lot of the very best fashionably bred females and young things. The writer recently paid a visit to these famous herds, better known as the "Alfalfa Head Quarters Angus," and we wish to say that we were much pleased with the very fine lot of stock we saw. We were especially pleased with the young bulls that we saw on the farm that were the get of Blandin, the great Black Cap bull used in this herd last season. Blandin is sired by Imp. Prince of Benfield. This bull has sired a lot of calves that are little short of sensational. He looks as though he was in the big-money class as a sire, and we would earnestly recommend [illegible] to the readers of The Homestead. As good a bull calf as the writer has seen in many years we saw on the farm recently, and he is by Blandin. His dam is Black Bird of Maple Leaf and his grandam is by the celebrated Moon Eclipser. The pedigree is right, and we do not believe that we can quite do the bull justice in a description, but we trust that Messrs. Harrison will show him that stockmen generally may get a look at him this fall. There are a number of beautiful heifers by this sire as well as a number of young bulls, and they are uniformly first class. There are also a a choice lot of young things sired by a son of the great and only Black Jam. We recommend these cattle. Write Harrison & Harrison, Indianola, Neb., for full description of the stock for sale. See advertisement on page 21.

Pine Hedge Duroc Jerseys.

When A. P. Alsin, Boone, Iowa, lost his noted herd boar, Muncie Chief, he met an experience which would have disheartened most breeders. Not so with Mr. Alsin. He realized that the cause of success in the Duroc Jersey business is keeping everlastingly at it and keeping the best herd boar to be found. As a successor to Muncie Chief he selected a son of that great hog called Muncie Again. Muncie Again has most of the merit which go to make a good Duroc Jersey and some that are in the extraordinary class. He has sufficient size, smoothness and finish and a wonderfully strong bone. Muncie Again comes by all different qualities legitimately. His dam was a daughter of Proud Advance, one of the greatest sow sires of the breed, and his second dam was the noted grand champion sow, Violet Blossom 5th, an undefeated show sow as well as a wonderful producer. Mr. Alsin also has in service this year, Junior Jim's Col., a good hog and one which possesses a pedigree of remarkable strength. His crop of spring pigs is perhaps a little better than usual, although lacking somewhat in numbers. Most of them are by Muncie Chief and Nebraska Belle's Ohio Chief. Mr. Alsin is offering for sale a two-year-old hog which won fourth at the Iowa State Fair last fall. This is Muncie's Last, which showed in a class of twelve months old and under eighteen last fall. He is by Muncie Chief and his dam traced through Ohio Chief lines of breeding to Violet Blossom 5th, the grand champion sow above mentioned. Further information concerning this hog and the reasonable price at which he will be offered may be obtained by writing to A. P. Alsin, Boone, Iowa. Additional facts concerning the herds will appear in a later issue of this paper.

Peter Mouw's Great Boar Offering.

Just one word more to Homestead readers regarding the Peter Mouw sale of his famous large-type Poland Chinas that he will sell at his farm near Orange City, Iowa, on June 25th. It will be one of the sales where admirers of the big-type Polands will find herd-boar proposition and there should certainly be a large attendance of those who want to purchase boars to place at the head of their herd. Eight of the boars he is selling are sired by that great boar, Big Jumbo, and these range in age from a year to under three years of age. Mr. Mouw has held these boars and has grown them with the idea of making herd boars and now that he is making a trip to Europe has concluded to call a mid-summer sale and dispose of the entire lot. There are boars in this offering that any of our best breeders can use, and boars that will beat the 1,000-pound mark when matured. Among the number is Oakwood Jumbo, a two year old and used successfully in the herd; Square Jumbo and Tecumseh Jumbo, two of the best two-year-old boars that will go into any sale this year; Iowa King and Long Jumbo, that will beat 1,000 pounds quite a little when grown out, as well as a lot of others. There will be a lot of young boars in the Mouw sale that will have a right to make as good boars as many that are today heading good herds and come directly from the Mouw herd. For those breeders who are wanting to buy big-type boars to place at the head of their herd we will by all means encourage them to attend the forthcoming sale of Peter Mouw. The boar offering, however, is not all that Mr. Mouw is selling. He is cataloging about forty head of sows of his best and most noted breeding. Some of these

will be bred sows, bred for fall litter, and some will be fall sows sold open. It will be an easy matter to buy herd sows in this sale or young sows to go into a fall or winter sale. The Mouw sale should attract one of the largest crowds of breeders of the season. Write for his catalog at once and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Mouw will receive attention on day of sale.

Economy Stock Farm Durocs.

We had the pleasure of looking over the Durocs on the Economy Stock Farm, Shenandoah, Iowa, one day last week, owned by James J. Doty, and found a lot of good things in the herd. We found there that grand old show and breeding boar, Chief's Col., and while he does not look like he did when he was in show shape, yet he is still doing business, and they have quite a number of good things sired by him on the farm. There have been few boars that have done more for the breed than has old Chief's Col. He is probably the best son of old King of Cols. and he is out of an Ohio Chief dam, making him one of the best bred boars living. He himself was a grand champion boar at the Illinois State Fair in 1908, was also senior champion and headed first-prize aged herd at the same show. His get have always been in demand by the very best breeders, and Mr. Doty bought him to place at the head of his herd because of his ability to sire the class of stuff that the breeders are looking for. He is assisted by Highland Chief, a grandson of Ohio Chief and out of a daughter of Golden Echo, he by old Golden Rule. Most of the spring pigs are sired by these two boars, and they have 200 head of them. There are a few litters by Capt. Gano, a son of the noted show boar, Col. Gano, and one litter by Cherry Chief. The latter litter are good and they are out of a Proud Col. dam. They are offering for sale the two-year-old herd boar, Highland Chief, and he is a boar of pronounced individuality and a most excellent breeder. Some man who is looking for a good breeding boar will get a good bargain in this hog. They are also booking orders for spring boars from now on and they have twenty good fall boars on hand that they want to sell right away. These fall boars are sired by Highland Chief, and they have some of these that are about as good as you will find anywhere. They are offering some splendid bargains in these fall boars if taken soon, and those who order first are going to get the pick of the bunch. Among the other good things they have is a yearling boar called Future Fame, and he is a good son of L. E.'s Valley and out of a dam by Pilot Wonder, second dam being by old Advance. He is an outstanding junior yearling boar and one of the best things we have seen in our travels this year. They are not pricing this boar, as they do not want to sell him, but he is one that they are all going to look at before they get through. Another good yearling boar that they have on hand and will sell is a son of King The Cols. and out of a Proud Chief dam. Here is a boar that has lots of stretch, plenty of bone, and will make a herd boar to any breeder who is looking for a herd boar, as he is a good hog and has a splendid outcome to him. Then they have another good, toppy yearling by Morton's Top Col., and he is out of a granddaughter of old King of Cols. Here is a boar that will look good to a lot of men who are looking for a herd boar. They will sell either one or both of the last-named boars, all the fall boars and will book orders for the spring boars. They also have a choice lot of sows bred to Chief's Col. for September and October litters and they will sell these at any time. The herd is under the management of Mel Kraschel, one of the best known breeders and judges of Durocs in the West, and a man who has from time to time acted as judge in the best show rings in the East and West. He will be pleased to show you the herd at any time, and will take pains in selecting for you just what you want if you send an order. Write the Economy Stock Farm, Shenandoah, Iowa, at any time for further information regarding what you want and kindly mention The Homestead. See page 21.

NEWS OF THE SALE RING

Bellows Bros. Short-horn Sale.

June 10th was an ideal day for holding a public sale and the throng of breeders assembled at Parkdale Farm, Maryville, Mo., to attend the Bellows Bros. sale of Short-horn cattle showed their appreciation of the work these breeders are doing in producing up-to-date Short-horns. The forenoon was devoted to inspecting the breeding herds, the farm and the sale stock and all pronounced this one of the most instructive and enjoyable days ever spent at a breeding plant. The noonday luncheon served in the Bellows style under the broad shade trees that decorate the lawn was over at one o'clock and the crowd filled the spacious tent to overflowing. Colonel Woods in one of his most eloquent talks paid high tribute to the late Col. Geo. P. Bellows and that he is missed by all, was evident. After a few remarks from Mr. Renick, manager of the record association, the sale was started. That the cattle pleased the buying public is best shown by the general average of $490.10 paid for the forty-eight lots listed. One of the disappointments of the sale was when the roan yearling Marr Emma bull, Diamond Emblem, was knocked down at the moderate price of $1,095. D. E. Reiber, Morrill, Kan., purchaser, secures one of the best youngsters sold this year and he should prove a valuable acquisition to his herd. This bull either sold for one-half his value or many other bulls sold during the past six months have sold far too high. He was the top of the sale and is one of the best bulls the Bellows Bros. ever sold. Diamond Goods, his sire, is proving a great breeding bull and his get were appreciated. Corner Stone, one of the best prospects for a breeding bull went to Farmers Farms, Farmington, Minn., at $810 and was a bargain. The University of Illinois took Diamond Knight at $840. The top on females was $1,000 paid by C. F. Curtiss, Ames, Iowa, for Queen of Beauty, a roan three-year-old cow with rare breed character and quality. She is the dam of Corner Stone. Ogden & Son, Maryville, Mo., secured a valuable pair in Beatrice and her white heifer calf at foot at $815. Parkdale Victoria with heifer calf at foot by Diamond Goods, was a bargain at $810 and Rees & Son, the purchasers, secured one of the bargains of the sale. Columbia 12th with red heifer calf at foot by Diamond Goods and rebred to him went to A. O. Stanley, Sheridan, Mo., at $800. They are a valuable pair and will fit well in the select herd owned by Mr. Stanley. The Bellows Bros. reputation for square, open dealings in every transaction was upheld and their manner of conducting sales adds to their reputation as constructive breeders and business men. Cols. Woods, Jones, Reppert and Hosmer were the auctioneers. Following is a complete list of sales:

BULLS.

Corner Stone, calved October, 1911; Farmers Farms, Farmington, Minn.	$ 810
Diamond Abbott, calved April, 1911; Claus Ehler, Bennet, Neb.	500
Diamond Emblem, calved January, 1912; D. E. Reiber, Morrill, Kan.	1,095
Diamond Sultan, calved February, 1912; S. W. Ward, Lamont, Iowa	575
Diamond Knight, calved December, 1911; University of Illinois, Champlain, Ill.	840
Butterfly Sultan, calved March, 1912; D. M. Johnson, Storm Lake, Iowa.	405
Diamond Marr, calved December, 1911; Geo. White, Emerson, Iowa	400
Sultan's Crown, calved September, 1911; J. M. Woods, Washington, Iowa	500
King Abbott, calved November, 1911; Fred Sutherland, Skidmore, Mo.	300
Mildred Sultan, calved May, 1911; E. H. Boss, Hale, Mo.	610
Sweetheart Sultan, calved March, 1912; F. T. Clamp, New Providence, Iowa	360
Diamond Beau, calved January, 1912; A. T. Worstley & Son, Kent, Iowa	400

FEMALES.

Choice Victoria, calved January, 1910, and b. c.; E. H. Boss	415
Victoria Miranda, calved February, 1905; Tom Stanton, Glen Ellyn, Ill.	510
Parkdale Victoria, calved July, 1909, and c. c.; H. Reese, Pilger, Neb.	810
Sinnissippi Victoria, calved November, 1904; Geo. Thompson, Viborg, S. D.	505
Victoria Adelaide, calved August, 1909; D. E. Reiber	315
Sweetheart 2d, calved September, 1906, and c. c.; F. A. Jackson, Hurley, S. D.	500
Emma Belle, calved March, 1911; Owen Kane, Wisner, Neb.	375
Scottich Queen, calved March, 1911; E. H. Boss	350
Scottich Queen 4th, calved April, 1905; W. W. Burge, North Platt, Neb.	505
Butterfly 12th, calved January, 1906; A. G. Duffy, Kirksville, Mo.	225
Butterfly 2d, calved March 1909, and b. c.; W. W. Burge	715
Butterfly, calved July, 1905, and c. c.; Tom Stanton	500
Columbia 11th, calved November, 1909, and c. c.; F. W. Harding, Waukesha, Wis.	600
Columbia 12th, calved May, 1910, and c. c.; A. O. Stanley, Sheridan, Mo.	800
Columbia 13th, calved June, 1911; C. F. Curtiss, Ames, Iowa	300
Beaver Creek Spicy, calved February, 1906, and b. c.; Ogden & Son, Maryville, Mo	500
Fancy Spicy, calved June, 1910; S. P. Emmons & Son, Mexico, Mo.	250
Queen of Beauty 20th, calved July, 1909; C. F. Curtiss	1,000
Lovely of Parkdale 3d, calved April 1907; H. C. Stevenson, Leavenworth, Kan.	440
Lovely of Parkdale, calved January, 1905; J. T. Judge, Carroll, Iowa	410
Cherry Grove Lady 3d, calved April, 1906, and c. c.; E. H. Boss	570
Beatrice, calved September, 1903, and c. c.; Ogden & Son	815
Lady Lancaster 2d, calved September, 1905; Evans Bros, Maryville, Mo.	250
Lady Bess, calved January, 1904; Geo. Allen & Son, Lexington, Neb.	280
Roan Beauty, calved September, 1903, and c. c.; W. B. Bonnifield, Ottumwa, Iowa	465
Boan Bess, calved September, 1906, and b. c.; E. H. Boss	535
Jealous Maid, calved November, 1906; J. H. Christ, Skidmore, Mo.	410
Rain Drop, calved April, 1911; D. E. Reiber	390
Hampton Mary, calved February, 1906, and c. c.; E. H. Boss	575
Mint Drop 15th, calved January, 1909, and c. c.; E. H. Boss	500
Butterworth, calved July, 1907; A. G. Duffy	250
Princess Victoria 4th, calved August, 1910; E. H. Boss	450
Princess Victoria 5th, calved August, 1911; James Sloss; North Bend, Neb.	295
Missie's Gem, calved March, 1911; D. E. Reiber	230
Diamond Lady, calved March, 1911; E. H. Boss	375
Diamond Lady 2d, calved June, 1912; E. H. Boss	310

SUMMARY.

36 females	$16,725; average	$464.58
12 bulls	6,800; average	566.66
48 head	23,525; average	490.10

Qwens Bros.' Short-horn Sale.

On June 12th, Owen Bros., Homestead, Iowa, held their sale of Scotch Short-horn cattle as previously advertised. While the outcome of the sale was successful the cattle should have brought more money. The demand for bulls was not as strong as in other sales and the fact that there was such a large number of females cataloged had a depressing effect upon prices. A large amount of breeders were in attendance from several states. The most of the cattle remained in Iowa. The sale was conducted in a straightforward, business-like manner and the sellers made many friends by so doing H. C. Lewis, Council Bluffs, Iowa, secured the top female of the sale in Beauty May 5th at $350 and she was a decided bargain. Courtier's Crown, a three-year-old herd bull, was the top of the sale, selling to A. C. Austin, Crook, Colo., at $410. The offering throughout was very uniform and the average given below indicates a strong demand for good cattle when the number sold is taken into consideration. Cols. Fred Reppert, Carey M. Jones and George H. Burge conducted the sale in a very satisfactory manner. A list of those selling at $100 and above is appended:

FEMALES.

Happy Pride, calved August 1910, and c. c.; J. E. Mann, Woodbine, Iowa	$305
Beauty May 5th, calved November, 1906; H. C. Lewis, Council Bluffs, Iowa	350
Geraldine 13th, calved November, 1909; Wm. Durant, Wellman, Iowa	250
Missie Maid 2d, calved March, 1911; J. W. Frizzell, Brooklyn, Iowa	190
Missie Maid 3d, calved January, 1912; Thos. Brown, Hawley, Iowa	140
Happy Pride 3d and Happy Pride 4th, twins, calved June, 1912; Wm. Herkelman, Elwood, Iowa	250
Golden Lassie, calved August, 1910; J. E. Mann	265
Golden Lassie 3d, calved July, 1912; Wm. Herkelman	125
Gipsy Girl, calved 1909; Robt. Owens, Jr., Homestead, Iowa	160
Sunshine Lady, calved November, 1909; Robt. Owens, Jr.	140
Sincerity Maid, calved November, 1909; John Gregg & Son, Clarence, Iowa	225
Lady Aberdeen 3d, calved November, 1908; Chas. A. Saunders, Manilla, Iowa	215
Red Crest, calved December, 1908; H. Prichard & Son, Walnut, Iowa	230
Red Crest 3d, calved April, 1911; E. B. Thomas, Audubon, Iowa	160
Red Crest 4th, calved May, 1912; Wm. Herkelman	125
Lady Pride 2d, calved September, 1906; H. C. Lewis	230
Courtier Lady, calved May, 1908; J. M. Bay, Aledo, Ill.	185
Courtier Lady 2d, calved May, 1911; M. E. Slemmons, Iowa City, Iowa	175
Scottish Queen 2d, calved January, 1912; W. B. Robinson & Son, Robinson, Iowa	110
Lotis Lily 2d, calved September, 1911; David D. Jones, Williamsburg, Iowa	125
Lady Bess 3d, calved March, 1911; Chas. Wilkins, Nauvoo, Ill.	110
Beauty's Lassie 3d, calved October, 1911; Chas. Wilkins	110
Susan Lady 4th, calved October, 1906; H. Prichard & Son	215
Lady Susan 2d, calved May, 1911; H. Prichard & Son	165
Duchess 2d, calved October, 1911; David D. Jones	125
Glossy Maid, calved January, 1912; David D. Jones	125
Gracidan Gem, calved January, 1910; H. Prichard & Son	250
Secret Victoria, calved November, 1909; Henry Durant	245
Victoria Gem, calved June, 1911; Grant Marquis, Aledo, Ill.	250
Beauty's Pet, calved August, 1912; Wm. Herkelman	125
Beauty Girl 9th, calved November, 1909; E. R. Silliman, Colo, Iowa	185
Secret Butterfly 2d, calved January, 1910; Fred C. Wiley, Mt. Union, Iowa	200
Hampton's Queen 3d, calved September, 1905; H. Shafer, South Amana, Iowa	155
White Stockings, calved October, 1908, and c. c.; R. Sherlock, Williamsburg, Iowa	115
Lady Royal 2d, calved January, 1907; H. Prichard & Son	180
Emma, calved July, 1910; Iowa State College, Ames, Iowa	305
Plainview Duchess 4th, calved June, 1911; E. B. Thomas	240
Choice Lady, calved June, 1907; M. G. Hill, North English, Iowa	325
Crown Queen 3d, calved June, 1908; H. C. Lewis	250
Beauty May 9th, calved December, 1909; H. Prichard & Son	200
Golden Glow, calved May, 1910; Wickham Bros., Mt. Vernon, Ill.	105
Geraldine 16th, calved December, 1909; J. E. Mann	230
Scottish Lassie, calved June, 1910; J. W. Frizell, Brooklyn, Iowa	180
Butter Print, calved May, 1910; Breemer Co. Farm, Dunkerton, Iowa	185
Pride's Lady 2d, calved August, 1906; J. A. Daniels, Williamsburg, Iowa	310
Queen Royal 3d, calved December, 1909; Breemer Co. Farm	180
Beauty Girl 5th, calved May, 1906; E. B. Ball, Ames, Iowa	175
Autumn Queen 9th, calved December, 1910; W. B. Bonifield, Ottumwa, Iowa	200
Autumn Queen 10th, calved December, 1911; Wm. Herkelman	170

BULLS.

Courtier's Crown, calved August, 1909; A. C. Austin, Crook, Colo.	410
Scottish Baron, calved August, 1912; C. T. Von Lind, Pella, Iowa	180
Scottish Chief, calved July, 1912; J. W. Frizzell	205
Scottish Star, calved August, 1912; E. W. Miller, Van Meter, Iowa	100
Scottish Count, calved June, 1912; Chas. Wilkins, Nauvoo, Ill.	100
Scottish Stamp, calved June, 1912; Jones Bros., Williamsburg, Iowa	100
Scottish Champion, calved April, 1912; W. O. Simcote, Redfield, Iowa	175
Scottish Secret, calved August, 1912; J. N. Dunn, Central City, Iowa	210
Courtier's Hero, calved June, 1912; W. H. McClelland, Granger, Mo.	235
Scottish Royal, calved April, 1912; W. C. Wilson, Rose Hill, Iowa	195
Scottish Courtier, calved July, 1911; Wm. Magee, Montour, Iowa	360
Secret Fame, calved March, 1912; A. W. Burns, Oxford, Iowa	130
Victor Robin, calved April, 1912; A. L. Richie, West Gate, Iowa	150
Sultan's Magnate, calved July, 1912; L. M. Berthold, Winterset, Iowa	170
Major, calved December, 1911; John Vonderill, Humboldt, Iowa	100
Scotchie, calved October, 1912; Fred C. Wiley	200

SUMMARY.

20 bulls	$ 3,395; average	$170
55 females	10,515; average	191
75 cattle	13,910; average	185

The Rees Short-horn Sale.

The sale of Howell Rees & Son at South Omaha, on June 11th, attracted one of the largest crowds that has been sent at this point in a number of years and it seemed they were all there for business. A great number came from the Bellows sale the day before, and with the new faces that came, made it one of the most representative Short-horn gatherings seen in the West in a long time. The cattle were presented in nice condition and were well received by the buyers present. The top of the sale was the great cow, Lady Violet 4th, and she went to E. A. Hess at $900 and was a great bargain at that figure. She is certainly a grand specimen of the breed. She is a three-year-old daughter of Ruberta's Goods and is out of a daughter of old Choice Goods, and we are strictly within bounds when we say she is one of the greatest cows that has gone through a sale ring in a long while. The top of the bull sale was the yearling roan, Secret Goods, a son of Ruberta's Goods, and he was secured on order for J. C. Morman, Crofton, Neb., at an even $500. Shortly after he was sold an offer of $600 was made for him by a gentleman representing Mr. Duryea, of Tennessee, and Mr. Morman was wired accordingly. Later on a message was received from Mr. Morman accepting the offer, and the bull therefore becomes the property of Mr. Duryea and will be seen in his show herd the coming fall. The Rees offering made an average of $324.67 on everything and the bulls averaged $371.66. Mr. R. E. Baldwin, Osceola, Iowa, sold eight head in the sale and he made an average of $190.62. Below we list the two offerings in their entirety. Colonel Woods cried the sale, assisted by Colonels Jones and Reppert.

FEMALES.

Lady Marengo 2d, calved Sept., 1906; Thos. Stanton, Wheaton, Ill.	$500
Lady Violet 4th, calved Sept., 1909; E. A. Hess, Council Bluffs, Iowa	900
Sister, calved Dec., 1906; Ed Hayes, Bradshaw, Neb.	325
Countess Sultana, calved Sept., 1909; D. E. Loomis, Villisca, Ia.	340
Princess Royal, calved Jan., 1909; Perry O. Brown, Lamoni, Iowa	165
Orange Sultana, calved Aug., 1911; Retzlaff Bros., Bennett, Neb.	340
Sylvia Goods, calved Nov., 1910; Rabe Bros., Fontanelle, Neb.	420
Princess Goods, calved June, 1911; Wm. Herkelmann, Elwood, Iowa	400
Orange Lynette, calved April, 1906; Perry O. Brown	255
Victoria Maid, calved June, 1911; Wm. Herkelmann	500
Gloster Lady, calved April, 1911; Geo. Allen & Sons, Lexington, Neb.	225
June Goods, calved June, 1911; David Tighe, Wabash, Neb.	255
Dorothy Dame, calved April, 1911; W. S. Handley, Carroll, Iowa	155
Ruby Goods, calved Jan., 1912; Wm. Herkelmann	310
Silver Charity 2d; E. J. Thompson, Hurley, S. D.	500
Patricia, calved March, 1911; Perry O. Brown	200
Ramsden Orange Princess, calved Jan., 1906; Everett Harmon, Boulder, Colo.	180
Peaches, calved Jan., 1910; Rabe Bros.	155
Sylvia Goods 2d, calved Nov., 1911; Chas. Schliepka, Tobias, Neb.	305
Columbia Lady 4th, calved Nov., 1910; Perry O. Brown	300
Columbia Maid, calved Sept., 1909; D. E. Loomis	230
Rosie O'Grady, calved Nov., 1908; Perry O. Brown	200
Leslie's Lassie, calved Jan., 1911; Everett Harmon	175
Nonpareil Lady, calved Dec., 1911; W. S. Handley	155

BULLS.

Crescent Goods, calved May, 1911; Sni-A-Bar Farm, Kansas City, Mo.	475
Secret Goods, calved June, 1912; J. C. Morman, Crofton, Neb.	500
Lavender Goods 2d, calved May, 1912; Geo. W. Stabler, Havelock, Neb.	310
Callant Tyne, calved May, 1912; W. J. Bryan, Poke's Creek, Md.	350

TOO LATE TO CLASSIFY.

ECONOMY STOCK FARM DUROCS

BOARS AT HEAD OF HERD

CHIEF'S COL. 22875, senior and grand champion boar at Illinois State Fair and one of the greatest breeding boars living.

HIGHLAND CHIEF, a son of Helen's Chief by Ohio Chief, and out of a dam by Golden Echo by Golden Rule.

200 HEAD SPRING PIGS
20 FALL BOARS FOR SALE

We are offering twenty very choice fall boars sired by Highland Chief and these will make splendid herd boars. We have 200 head of spring pigs sired by Chief's Col., Highland Chief, Cherry King and Capt. Gano. We are booking orders for these at any time.

10 Sows Bred to Chief's Col. For Sale

We are offering ten sows bred to the great Chief's Col. for September and October litters and they are bargains. Write us at once about these and kindly mention The Homestead. Address

Economy Stock Farm Co., Mel Kraschel, Mgr., Shenandoah, Ia.

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by Col. Gano and Chief's Protection, and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address

R. J. HARDING - - - - MACEDONIA, IOWA

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship, $25.00 to $50.00. Best breeding, highest quality.

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Scotch King

FOR SALE—A 14-mo., wide backed, heavy quartered Scotch bull of the Clara tribe, grandson of Imp. Claudia 4th and Diamond King. Also several other bulls 10 to 13 mo. old.

W. W. VAUGHN - - -MARION, IOWA.

Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 250 to 275 pounds. I have spring pigs weighing 75 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment.

JOHN I. DRIPPS - - SPRINGVILLE, IA.

300 Shetland and Welch Ponies for sale—All ages, including prize winners. Write your wants. Theodore S. Simpson & Sons, Aurora, Ill.

ABERDEEN Angus bulls, young, well bred, good individuals. Also herd bull. Barbarous 94165 by Prince Ito. Maurice Green, R. R. 1, Wayland, Ia.

Orange Sultan, calved August, 1912; Wm. Daily, Pipestone, Minn. 330
Orange Goods, calved June, 1912; Henry McGath, Plainview, Neb.. 245

SUMMARY.

6 bulls .....$ 2,230; average..$371.66
25 females ... 7,835; average.. 333.40
31 head ..... 10,065; average.. 324.67

R. E. BALDWIN'S OFFERING.

Golden Belle, calved Oct., 1913; F. A. Nelson & Son, Malcolm, Neb..$280
Miss Robin, calved Aug., 1908; Owen Kane, Wisner, Neb..... 250
Queen Alice, calved Aug., 1907; J. G. Westrope, Harlan, Iowa..... 250
Princess Sultana, calved Sept., 1910; C. H. Jackson, Avoca, Neb. 185
Lancaster Lady, calved Feb., 1912; D. E. Loomis 110
Dorothy Lancaster, calved April, 1908; N. G. Kraschel, Harlan, Ia. 285
Lyndale Alexandria, calved May, 1911; Perry O. Brown 105
8 head .....$1,525; average., $190.62

It is easy enough to figure a high cost. We once had a neighbor who figured that it did not pay to raise and feed hogs. He allowed himself ten cents for every time he fed his hogs, this for the work of feeding. Figuring in this way, then counting in the worth of the feed fed, he came out away behind with that bunch of hogs, so he claimed there was no profit in raising and feeding hogs. It may be that by some such route as this, the gentleman figures that it cost twenty-five cents a pound to put weight on cattle.

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NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.

BUY THREE IN ONE

See the mares in pasture or infield work.
See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

SCOTCH SHORT-HORNS

TWO very choice Scotch bulls, old enough for service are being priced very low for quick sale. These bulls are right in every way. One a roan the other a red.

K. F. DIETSCH - - ORLEANS, NEB.

HIGH-GRADE ANGORA GOATS

I HAVE for sale about 75 head high grade Angora goats. 50 are does and remainder wethers. Farm near Howell Station on Wabash railroad.

C. TOOM - - - - PELLA, IOWA

FINE spotted Shetland stallion, 7 years old, 40 inches, sure foal getter; first check for $150 takes him. Also one yearling spotted stallion colt and two filly foals almost old enough to wean. Guy J. Pote, Bridgewater, Iowa.

DOUBLE STANDARD SHORT-HORNS.

WHITEHALL Sultan and other noted strains. F. S. Bunker, Kilbourne, Wisconsin.

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
J. L. Thatcher, Manager.

BERKSHIRES

The result of years of selection for health, breeding and marketing qualities. Head your herd with hardy, pedigreed stock from the finest herd in the world—best to buy because they make most money for you. Write now for particulars.

MORGAN FARM, Beloit, Wis.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address

C. D. Nichols Live Stock Co., Cresco, Iowa.

ABERDEEN ANGUS CATTLE.

Alfalfa Herd Aberdeen Angus

WE now offer for immediate sale from the famous "Alfalfa Herd Aberdeen Angus" a few very choice bulls of serviceable ages, also a very desirable lot of females and young things. Readers of The Homestead searching for extra high-class breeding stock at prices well in keeping with the values offered, will be interested in what we have for sale. Write us or come and see us at once.

HARRISON & HARRISON - - - - INDIANOLA, NEB.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 32491, Prince of Prides 129328, Kazlmura 2d 134656 and Elsyer 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty 50 coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sale at all times. Write us and come and see our herd. Address

Escher & Ryan, Botna, Iowa. Chas. Escher & Sons, Botna, Iowa.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

ABERDEEN ANGUS BULLS

I HAVE 7 bulls, all grandsons of Black Woodlawn, with quality that I am offering at farmers' prices. One is a toppy Blackbird calved last May. They are from 11 to 16 months of age. Call on or write

A. G. MESSER, GRUNDY CENTER, IOWA

POLLED DURHAM CATTLE.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan. Scotch bred 3 yr. olds, and calves 6 to 12 mos., choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

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LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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I KNOW THE BREEDERS.
I KNOW THE BUSINESS.

COL. W. M. PUTMAN
TECUMSEH, NEBRASKA

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Horse and Hog Sale a Specialty
Sale tent free with services. Write for dates

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I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

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LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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COL. H. L. IGLEHEART
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POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

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SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

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WRITE for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

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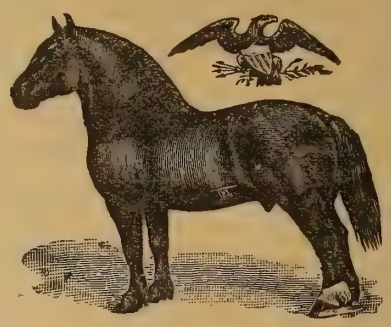
Special Sale of Percheron and Belgian Stallions For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

MAASDAM & WHEELER
FAIRFIELD, IOWA
PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

OAKLAWN STOCK FARM
Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW **Importation Arrived April 23rd,** and is now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.
GEORGE EGGERT - - - - - - **NEWTON, IOWA**

FAIRVIEW STOCK FARM
PERCHERONS, BELGIANS, SHIRES, MAMMOTH JACKS and JENNETS

SOME extra good home-bred stallions. Percherons and Shires, pasture raised and in splendid thrift. The sort to do a lot of hard service. A few extra high-class big jacks 3 to 5 years old and 30 jennets, all ages. Democratic prices on this stock for next 30 days. Want to close them out. Address, mentioning The Homestead,
HENRY BECK, - - **LITCHFIELD, NEB.**

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW!
V. W. HARMS,
FAIRBURY, ILLS.

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A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address
HENRY LEFEBURE - - Fairfax, Iowa.
Eight miles west of Cedar Rapids.

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There is a fundamental reason why the breeding of draft horses will continue profitable.

From 1900 to 1910 the population of the United States increased 21%. Horses increased only 8%. Cattle decreased 8%, hogs 7%, sheep 14%.

This means increased tilled acreage and increased demand for horse power.

For full information address Wayne Dinsmore, Sec'y, Percheron Society of America, Union Stock Yards, Chicago, Illinois.

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Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

Stooker's Stock Farm

OFFERING just now some very choice Percherons. A pair young stallions and a few mares. Write for full information. Address
F. A. STOOKER, - Dunbar, Nebraska.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

McLAY CLYDESDALES
MAKE GOOD
McLAY BROTHERS,
Janesville, Wisconsin

PERCHERONS

Eleven home-grown 3-year-old stallions, exact wt. 1,840 to 2,090 lbs. Bone to spare. June 19th these and youngsters for sale. The **biggest** Percherons pay you best. Drop a card for details.
FRED CHANDLER
Route 7,
Chariton, - Iowa

SHETLAND PONIES.

THE little gentle kind. One of the largest herds of registered ponies in the state. Send a two-cent stamp for price list and catalog that contains several pictures.
F. P. HEALY - - - **Bedford, Ia.**

PALESTRO I. 52027 (67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret (47526) by Theudis, by Besigue, by Brilliant 111, and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

SHETLAND PONIES

STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

FOR SALE Two Shetland pony stallions, one and two years old, full brothers, matched, weight of eldest 560. S. A. Wolcott, Gilmore City, Ia.

SHORT-HORN CATTLE.

SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH - - - - **NEWTON, IOWA**

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16 SCOTCH AND SCOTCH-TOPPED BULLS FOR SALE 16

I AM offering my great yearling Scotch bull, **Scottish Rex 3d,** for sale and he is the greatest herd bull proposition today in the West. He is a Campbell Rosebud and an outstanding good one; also have an other good Rosebud, a Miss Ramsden and a Flora; 13 other choice young bulls for sale. Address
J. G. WESTROPE, **HARLAN, IOWA.**

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I AM now offering my great **2,200-lb. son of Imp. Choice Goods for sale** as I can spare him. He is a richly bred Scotch bull of the **Marsh Violet** family and a splendid breeding bull. Also have a good **Jasmine** bull and **10 young bulls.** Come and see me at once. Address
W. M. M'LAUGHLIN, **SHELBY, IOWA.**

Choice Short-horn Bulls for Sale

WE are offering some very choice young Scotch and Scotch-topped bulls for sale. Some choice herd headers among the bunch. Write or come and see us.
HELD BROS. - - - **Mondamin Farm** - - - **HINTON, IOWA**

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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OFFERS FOR SALE

SIX good Short-horn bulls 10 to 14 months old. We invite your inspection. Address
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FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
C. A. SAUNDERS, - **MANILLA, IOWA**

SHORT-HORN BULLS
PIKE TIMBER STOCK FARM.

ONE pure Scotch Rosemary 9 months old; two extra good red Scotch-topped bulls 12 and 13 months old.
DAVENPORT & MACK, BELMOND, IA.

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20 CHOICE SCOTCH HEIFERS FOR SALE 20

THESE range in age from 18 to 30 months and are safe in calf to **Velvet Goods.** Also a few choice young bulls. Address, mentioning The Homestead,
PERRY O. BROWN, **LAMONI, IA.**

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address J. E. BARR, R. F. D. 4, Davenport, Iowa.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE - - **Mt. Vernon, Iowa.**

Bates Bred SHORT-HORNS

are large producers of milk and butter fat. Come and see my herd and be convinced.
B. W. LITTLE - - - - **Janesville, Wis.**

Short-horn Herd Bulls

LANCASTER SULTAN by Missie's Sultan and of the Lancaster family. A Sept. yearling by Rob Roy, dam Lady Annie 16th by Imp. Red Knight and a Nov. yearling, Missie by Scotch Sultan by Whitehall Sultan. All are herd bulls of Scotch breeding and priced right. We will sell Scotch cows and heifers at reasonable prices. Mention Homestead and write us your wants.
F. H. EHLERS, - - **TAMA, IOWA**

Linwood Cumberland For Sale

WE are offering this splendid yearling son of King Cumberland 2d, out of Miss Ramsden cow. He is a herd bull proposition. Write or come and see us at once.
H. H. POWELL & SON, LINN GROVE, IA.

WALNUT LAWN FARM

JUST now offers some very choice Short-horn bulls, three two year olds, seven yearlings. Pure Scotch and Scotch-topped breeding. Come see them.
JOS. H. DEHNER, **CASCADE, IOWA.**

---

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
W. M. MYERS - - - - **Beaman, Iowa.**

1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA,

HEREFORD CATTLE.

50 HEAD HEREFORD BULLS FOR SALE 50

WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.
A. SPOONER & SON, - - **MONDAMIN, IOWA**

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead, **N. D. MYSENBURG, David City, Neb.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, **NEWTON, IOWA.**

Hereford Cattle Duroc Jersey Hogs

STOCK for sale of both breeds at all times. Write or come and see me. Address
A. F. HAGER, **AVOCA, IOWA.**

Double Standard Polled HEREFORD BULLS

Yearlings and good ones. They will suit you.
H. D. CLORE - - **LUCAS, IOWA.**

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MADISON, WISCONSIN
Veterinary Editor The Homestead.
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PIERCE FARM WEEKLIES, DES MOINES, IOWA.

POLAND CHINA SWINE.

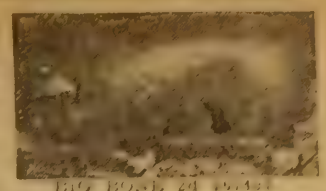
COOPER'S BIG-TYPE POLAND CHINAS. Guaranteed Cholera Immune

100 HEAD of pigs of spring farrow for sale, either sex, can furnish boars and gilts unrelated. These pigs are from sows weighing from 500 lbs. yearlings up to sows of over 800 lbs. in weight, representing the biggest blood lines and the most noted families of the breed. They are sired by Big Expansion, the 800-lb. 2-year-old son of the noted Dorr's Expansion; Big Bone 2d, weighing 900 actual pounds, and a son of the great Big Bone, Chief Leader, an outstanding 14-months-old boar weighing 500 lbs. today, and other boars of same likeness. These pigs will be ready to deliver beginning in June. They are from immune sires and dams and have received the double treatment. We will guarantee them cholera immune at

$35.00 EACH OR THREE FOR $100.00.

We will refund your money if they die from cholera. We guarantee them to be breeders; we guarantee safe delivery and record everything; have orders booked now from 9 states. If you want the biggest of the breed send us your order. We guarantee satisfaction.

W. H. COOPER - - - - - - - - - **HEDRICK, IOWA.**



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I WILL book orders up to 100 head of spring pigs sired by my half ton, **Big Orange, Ott's Big Orange,** who weighed 709 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25** to **$35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

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I WILL sell spring pigs sired by my great herd boars, **Big Halvor** (generally conceded to be one of the very best big-type boars in Iowa), **Maid's Halvor 1st,** a son of **Big Halvor** and out of the mammoth sow, **Long Maid,** and one of the grand young boars of the breed, **Mammoth Jumbo,** a son of the noted **Big Jumbo** and **Grand Chief,** bred by John Miller. These pigs are out of a herd of

Sows That Cannot Be Surpassed for Size and Quality

These sows are bred in the purple, many of them being sired by the great sire, **Big Halvor,** others by **Coming Wonder, Big Nelson,** etc. I know I can please you in a pig and that you will be more than pleased with the manner in which they develop. These pigs will be worth three and four times what I am asking for them within the next year. Write me for prices, mentioning Homestead

C. F. ADAMS - - - - - - - - - - - - - - - - - - **OWASA, IOWA.**

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700 lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

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These are all strong in the blood of the strictly big kind and are bred to the 900-lb. Mouw's Big Sioux for fall litters. I am also offering to sell my splendid 2-year-old boar, Smooth Jumbo. Write me at once and mention The Iowa Homestead. Address - - - **GEORGE GLYNN, Sioux Rapids, Iowa.**

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THE old original big-boned spotted kind. Now booking orders for spring pigs to be shipped when weaned. Pairs or trios, no kin. Everything Registered. For the kind of our forefathers address

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OF the thick, smooth, heavy-boned kind. Fall and spring boars and gilts sired by Dixie Expansion 190135. Also choice sows bred to him for fall litters.

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A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.

AUGUST GORDER, PLATTSMOUTH, NEB.

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WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to H.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

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BIG JUMBO (by J.'s Jumbo) is for sale. An excellent breeder and fit to head a herd of purebred Poland Chinas. Farmer's price will buy him.

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WE are offering this great Poland China yearling for sale, also 7 fall boars and some choice sows bred for fall farrow. Write us at once. Address

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SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address

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WEIGHT 175 to 250. Price $20 to $30. All sired by Orange Boy. Some herd header prospects.

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I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices.

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REED'S big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol. 40437a. If you want a big, smooth, heavy-boned pig, visit or write

WILLIAM REED, - **ROSE HILL, IOWA.**

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DUROC JERSEY FALL BOARS for sale; also trios, reasonable prices.
L. L. DE YOUNG, SHELDON, IOWA.

CHESTER WHITE SWINE.

G. O. SATRE'S CHESTER WHITE FALL BOARS

THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two-year-old boar, Royal Banner 22289, by Perfection by Climax. Descriptions and prices furnished on request.

G. O. SATRE - - - - - **JEWELL, IOWA**

CHESTER WHITE herd boars and bred sows for sale. One boar is out of grand champion sow Iowa State Fair, 1912, and sows are bred to him. Address G. H. Tutt, Marathon, Iowa.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. Fred Ruebush, Sciota, Illinois.

Orme's Prize-Winning Chester Whites I am offering 4 fall boars, 10 fall sows, $25 ea. A.C. Orme, Nodaway, Ia.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Harless, Ogden, Boone Co., Iowa.

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Oldest breeder in the State. Pedigreed stock for sale

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350 BIG-TYPE Mule-foot hogs, all ages. America's champion herd. Ponies and White Leghorn eggs. Address J. Dunlap, Williamsport, Ohio.

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Sunny Slope Hampshire Swine

200 February and March pigs sired by **Jde 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.

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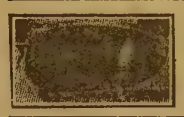

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I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

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HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

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WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address

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WON 500 prizes at leading state fairs and International Exposition the past five years. 378 head on hand; 154 spring pigs. Stock all ages for sale. Some choice bred sows for sale. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS**

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WE are sold out of boars; have nothing but fall pigs, male and female, and 10 extra good spring yearling gilts for sale. These gilts weigh from 275 to 300 lbs. We are pricing them worth the money. Quality and good breeding are our aim. Nothing but good individuals shipped off. Can ship by Adams or U. S. Express. Write today. **MIKE SHARP & SONS, COAL VALLEY, ILLINOIS**

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IF you want the best Galloway cattle—Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

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RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

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YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.

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TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

$850 Fully Equipped Detroiter $900 Special Equipment

A smashing value—a car that has made the selling record of the world in the past two years for all cars of its class—that has left behind 181 other makes of pleasure cars in point of quantity because it has far outstripped them in point of quality—why, friends, is there anything you could want in an automobile that the DETROITER does not afford you for $850 or $900? You must pardon the makers of this splendid car if they seem to boast a little bit—but you know how it is with those things of your own that have just clean passed way beyond your expectations—that yearling colt—that stand of wheat—that field of big onions down in the lowland—that orchard on the hillside—that blue ribbon herd of yours; for everybody has something that is better, that stands for his hard work and high ambition. And with us, it is the DETROITER car.

You Will Be Proud, Too.

When you get a Detroiter you, too, will be justly proud. The Detroiter is no makeshift—not a skimp, not a covered-over weakness, not a false economy in any part of it.

We built this car on the assumption that its very goodness would sweep the country from end to end; that men would everywhere demand it because all owners said it was right. And our record shows we hit the nail square on the head. Honest building and beauty of line and finish, not surpassed at any price, have given the DETROITER its success.

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When the Detroiter first appeared two years ago, manufacturers everywhere said we couldn't build the car for the price. They didn't take into consideration that the very quality of this car made the sale of it so easy that our sales expense per car is next to nothing. When you buy a Detroiter you pay no heavy "selling overhead," just as you pay the lowest "factory overhead." Our net profit per car is less than many manufacturers expend in "selling overhead" alone. And so we did it—although the manufacturers said we couldn't.

The Nine Big Features.

1. Long stroke motor.
2. Platform rear spring.
3. Multiple disc clutch.
4. Full floating rear axle.
5. Extra capacity radiator.
6. Enclosed valves, all on one side.
7. Left side drive, center control.
8. Extraordinary braking surface.
9. Ball bearings throughout.

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It is such construction that makes possible the Detroiter record,—20 to 25 miles to the gallon of fuel—and over 100 miles to the quart of lubricant. No five-passenger automobile made surpasses this record. Other cars with such features average in price $3,555.80—TheDetroiter costs you $850 or $900.

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Naturally a car with ball bearings that cannot wear out and never need adjusting—with the costly platform type of springs that absorb every jolt—with the long stroke motor that works without depreciation—with the extra large radiator that keeps the motor cool under all circumstances—with the full floating rear axle that is three times as strong as other types—with such a light car weight (1,900 pounds) and oversized tires—such a car lasts. Not one season, nor two, nor three is the life of a DETROITER—but with any reasonable care, less care than you give a good horse, it will live as long as tough steel can endure.

This Is the Day.

So get in touch with our nearest dealer, and do it now. The DETROITER has no seasons. The car you choose today has every latest improvement. Nothing is held over till "next season." There isn't a single experiment in the whole car. Every detail is tried and proved.

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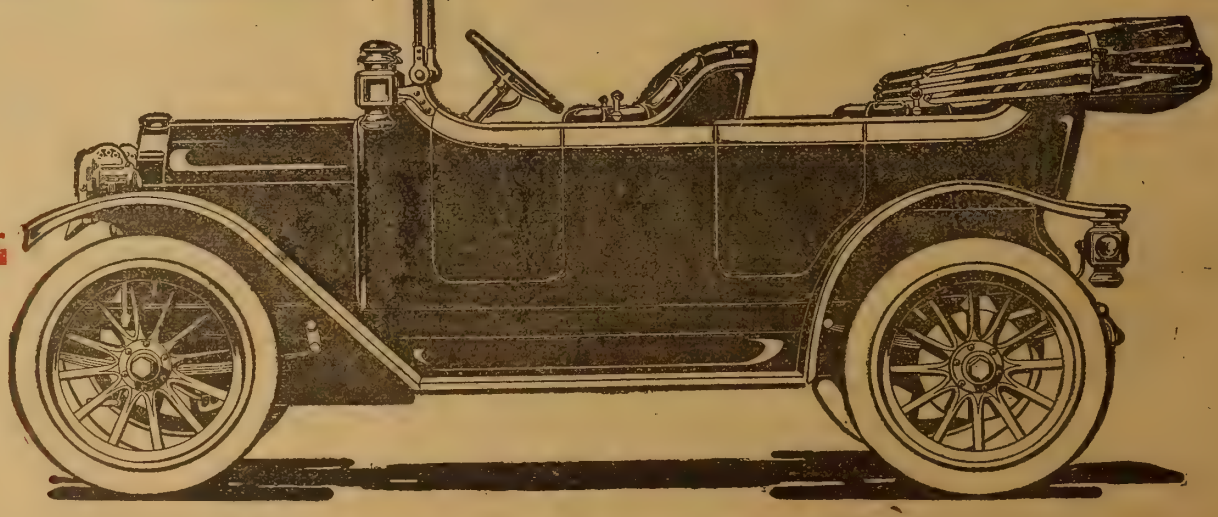

The Iowa Homestead

VOL. LVIII. NO. 26 DES MOINES, IOWA, JUNE 26, 1913. WHOLE NO. 2907

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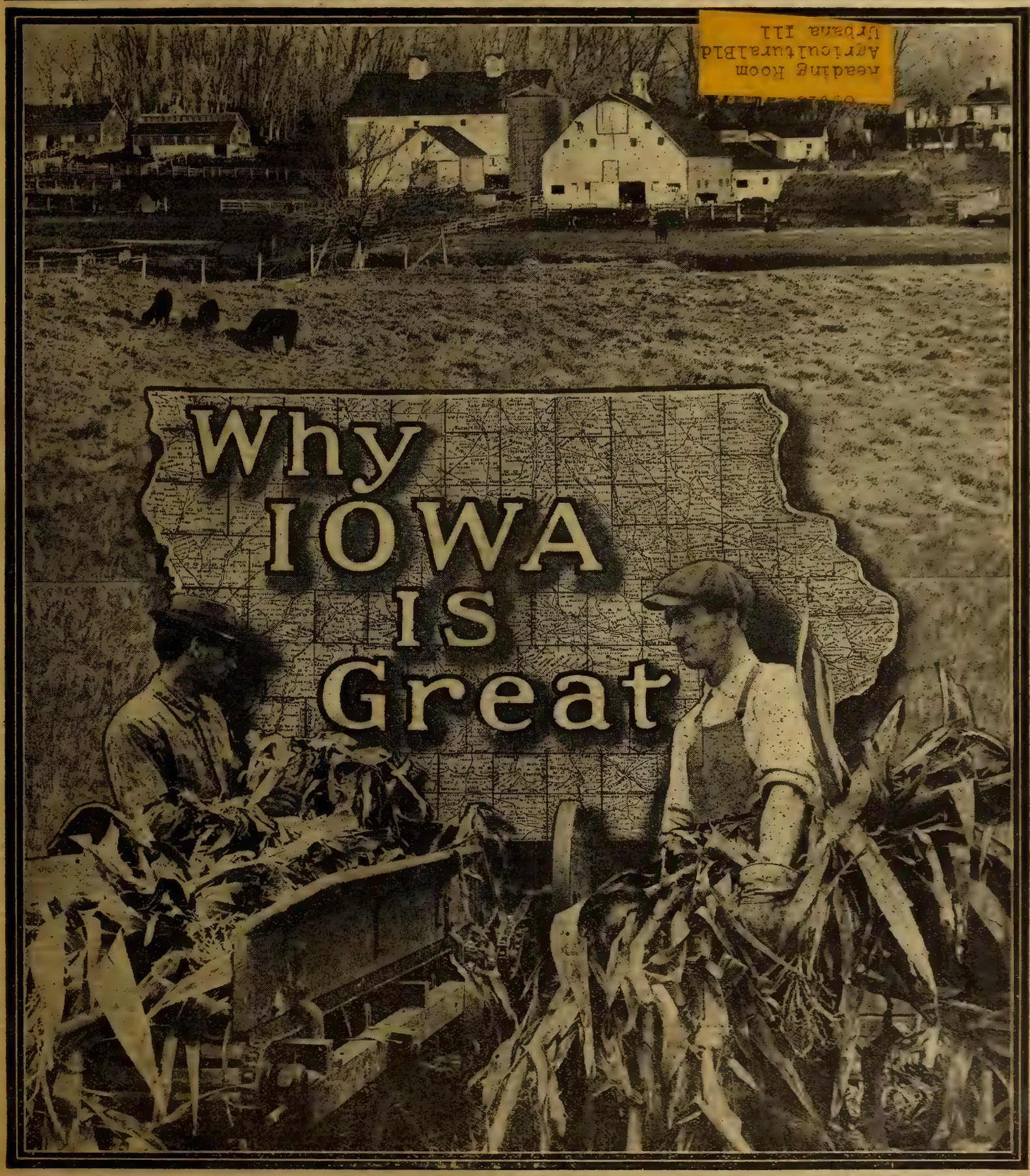

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Even if you have already located your farm you should travel to it over the **Canadian Northern Railway** and have the added advantage of traveling from 1,550 to 2,500 miles through Canada's richest farming country.

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Prince Albert, Sask.	37.50	32.50	40.00	45.00	40.00	32.50	46.50	37.00
No. Battleford, Sask.	39.95	34.95	42.45	47.50	42.45	34.95	48.95	39.45
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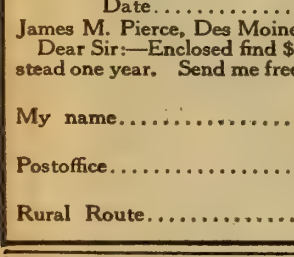

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You owe it to yourself to investigate. Don't leave it to your children to learn that a motor truck is as far ahead of horse-haul as a binder is superior to a cradle. Learn it for yourself. Let us send you some good, sound, honest, reliable information about trucks on the farm.

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LANSING, MICHIGAN

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Capacity 1500 pounds.
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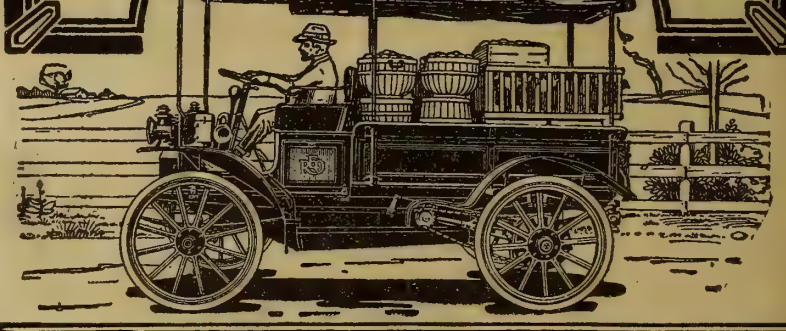

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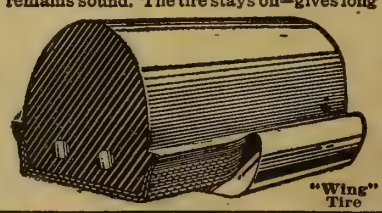
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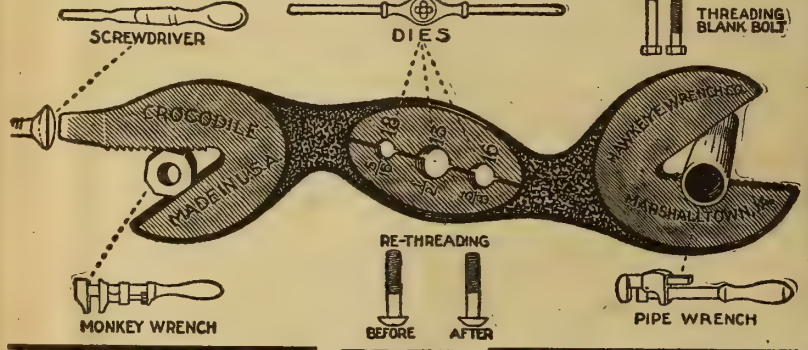

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The months of June and July find the farmer busy with his harvest and hay making. It is then that he needs a wrench that will answer every purpose around the binder, mower or rake. We have just such a wrench in our famous "Six in-One Crocodile."

This wrench is drop forged from the finest tool steel, scientifically tempered. Every Wrench is Guaranteed. It has six handy tools in one—pipe wrench, nut wrench, screw driver and three dies for cleaning up and re-threading rusted and worn out threads. Dies fit all standard farm machinery. It requires no adjustment, never slips, and is simple and always ready for use.

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 26, 1913.

Modern Household Arrangement

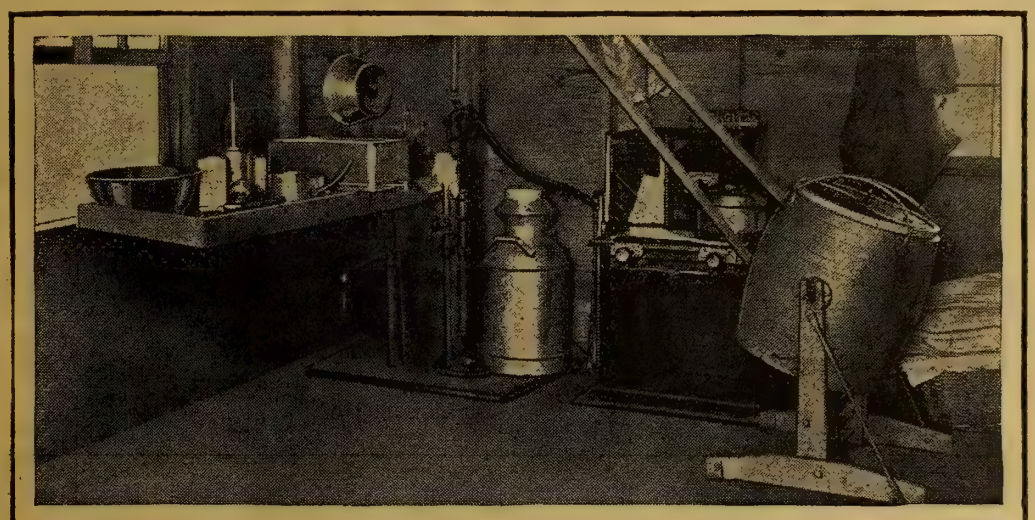
Work Room Which Concentrates Heavy Tasks of the Household into a Separate Apartment and Removes Them From the Residence—Enhances Cleanliness and Promotes Sanitation.

WAYSIDE FARM, an unpretentious quarter section located in Rock Island county, Illinois, has inaugurated a system of improvement affecting the convenience for handling the heavier work of the farm home that is worthy of the emulation of other farmers. This is a work room, in which are installed a cream separator, churn, washing machine, wrinsing tub and wringer, laundry stove, gasoline cook stove and a gasoline engine. There are also work tables, a pump connected with a soft-water cistern, and hydrant from water tank.

The building is not an expensive one. It measures twelve by eighteen feet on the ground, with a seven-foot wall. It is built with a single thickness of good quality barn siding, and has a substantial shingle roof. The floor has a finished cement surface on a four-inch gravel concrete base. The floor slopes from all directions to a drain-pipe connection, so that it may be flushed by a hose attached to the hydrant. There are two doors, that shown in the picture opening into the driveway and the other on the north side and connected with the kitchen, which is about twenty feet distant. There are two windows on the south and one each on the east and west. A shade tree on the west affords protection from the rays of the afternoon sun.

A FARM HOUSEHOLD WORK ROOM.

The engine base is a solid block of cement 12x30x36 inches, built into the floor. It stands one foot above the surface of the floor, and one and one-half feet in and below the floor. This gives it absolute solidness and rigidity. The separator base is a block of concrete eighteen inches square, but set even with the surface of the floor. The other machines are bolted to pieces of 2x4 two feet long embedded in the concrete. The method by which these pieces are fastened is novel, but effective. In each piece a number of spikes were driven into the center of both narrow edges about half way. Each piece of wood was then placed on the floor while in process of construction so that when the concrete work was completed the top of the wood laid flush with the floor, with the protruding spikes solidly embedded in the concrete on each side.



SECTION OF WORK ROOM SHOWING WASH-UP SHELF AND WATER CONVENIENCES.

The engine is of one and one-half horse power, and it furnishes power for the cream separator, the churn, the washer and the wringer. It might also easily supply power for a farm electric light plant.

The application of power to the machines relieves the family of a lot of the hardest kind of drudgery, reduces the time required to do it, and makes it possible to do it much better. The ladies of Wayside Farm are loud in their praise of this little house and its equipment. They find no difficulty in operating the engine. In winter the little laundry stove furnishes enough heat to keep the room comfortably warm.

The plan removes all the mussy and odorous work from the home, gives an added incentive to neatness, and affords an important sanitary condition which, in itself, has a value which more than justifies the expenditure for the building. It has advantages over a basement arrangement on account of light and ventilation, as well as in that it involves no running up and down stairs. The latter point is an important one, particularly where there may be a considerable quantity of milk to be handled. The washing up of the cream separator is done at the table shown, where water, drain, and sunshine through the window are all convenient.

This building and its plan of equipment were awarded a prize in a competition which this paper held a year or two since, the subject being plans for a work room and the application of power to the laundry machines, churn and cream separator. A few additions suggest themselves as a means of still more enhancing its value. An inexpensive plan of providing hot water might be used by putting a hot water coil in the laundry stove. The addition of a good-sized sink instead of the shelf-table shown in the engraving would prove more satisfactory. The addition of stationary tubs, to which both hot and cold water could be piped, would economize floor space and also reduce the labor of handling water for washing and rinsing. Such a room, given all the appliances that add to its convenience, might often occupy a kitchen space that would be rendered useless by it. Many kitchens are unnecessarily large and involve a great deal of work in merely keeping them in order. The tendency of builders is to restrict kitchen space to actual needs, and to eliminate everything except absolute essentials. With washing, ironing, fruit canning, churning and the care of the dairy utensils removed from the kitchen, its size may be reduced and its attractiveness increased.

THE LAUNDRY OUTFIT.

CREAM SEPARATOR AND ENGINE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
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WHAT AILS THE ALFALFA?

Judging by the tenor of many inquiries received by this paper all is not smooth sailing for those who are experimenting with alfalfa for the first time. An Iowa subscriber outlines his difficulties in the following communication:

I seeded six acres of alfalfa during the first week of August last year and it resulted in a perfect stand and produced a growth of eight or ten inches last fall. It seemed to start out well this spring, but about the first of June it began to turn yellow and a large part of the leaves took on a spotted appearance. I cut the crop quite early in the belief that I would get a larger yield than if it were left because it actually seemed to be dying out.

The soil on which this alfalfa was grown is well drained and while my farm never produced alfalfa before, yet sweet clover is grown in this locality and I was rather under the impression that the soil would be properly fertilized for the crop. Do you think it would be worth my while to try to save this stand or would it be better to plow it up and start over again?

A Missouri subscriber who seeded alfalfa in the spring of 1911 was well pleased with the results obtained last year, but he calls attention to the fact that the crop is now turning yellow and that it has anything but a healthy appearance. The same problem presents itself to this subscriber, namely, whether or not he should plow it up or try to assist the crop by the application of fertilizers or by the use of the right kind of bacterial life.

It must be kept in mind that the growing of alfalfa is not always as simple a matter as one might be led to believe from the advice given by the so-called enthusiasts.

There might be two reasons why the Iowa subscriber whose communication appears above is disappointed in his crop. In the first place his soil may be acid and if that is the case there is only one way to fit it for the growing of alfalfa, namely, by the application of considerable quantities of lime. The acidity of the soil may be tested by taking a sample of the surface soil to a depth of five or six inches, making it thoroughly wet, almost the consistency of mud, after which a piece of litmus paper should be embedded in this wet mud and left there for a period of ten or fifteen minutes. If it turns red then the soil must be limed before it will grow alfalfa satisfactorily.

The other cause for the failure is the lack of the right kind of soil organism. Ordinarily we believe that in nine cases out of ten where alfalfa turns yellow it is due to the lack of these organisms in the soil. Whether this form of life is present or not can very quickly be determined by digging up an alfalfa root, carefully washing it off with water, after which small nodules ought to be plainly visible on the roots if the soil is inoculated. If there is no inoculation the roots will be smooth and the chances are that under those circumstances the crop will not present a healthy appearance.

There are three methods of inoculating an alfalfa field. In the first place 300 or 400 pounds of soil per acre taken from a thrifty alfalfa field will accomplish the desired results, particularly so if the soil is applied on a cloudy day. Another plan is to use a soil upon which sweet clover has been growing because the alfalfa and sweet clover organisms are identical. The third plan is to use artificial inoculation which may be applied either at the first seeding or by stirring it with the soil and putting it on in that way. Where a good stand of alfalfa already results but the crop seems to be spotted or yellow it will be quite worth while to try one of these plans, but we repeat that application should be made if possible on a cloudy day and the surface should be disked immediately in order to incorporate the freshly-applied material with the soil and thereby prevent its destruction by the rays of the sun.

BLACKBIRDS CAUSE PLAGUE.

The interesting theory is held by a writer in the American Journal of Veterinary Medicine that the horse plague which visited Kansas, Nebraska and other grain-belt states within the past year was caused and spread by the rusty blackbird and the mosquito. The writer is a practicing veterinarian of Kentucky. It is his belief that the mosquito which is the guilty culprit is not the kind that infests marshes and wet places, but a breed which is to be found swarming around the roost of the rusty blackbird. He outlines his theory in this manner:

This new species of mosquito has no preference for swamps, but will be found swarming around the roost of the blackbird, and can be seen in the day time as well as at night, especially about an hour before sunset. They have only one set of wings, which are carried straight out from the body and are inclined to have a spot of darker color than the other part of the wing. They fly very slowly.

Blackbirds are very plentiful in this country; they have multiplied very fast, or it may be that since electric lights around which they congregate have become plentiful we notice them more. Moreover, we are told by good authority that birds are refractory to the trypanosomes (parasites) but when their blood is swarming with the trypanosomes and a mosquito draws this infected blood from the bird, the parasite will remain in the stomach of the mosquito for a few days when a pupa is formed and this pupa is deposited on blades of vegetation, only to be taken up by a suitable host (a horse, for instance).

The doctor does not suggest any remedy for the plague, but adds the hypothesis that the disease in horses, mules and cattle is closely akin to the disease which has been afflicting human beings of recent years, particularly throughout the South: pellagra. If his contention is right another indictment has been added to the long list already returned against the mosquito and the house fly as disease disseminators. The remedy in the case of the fly is comparatively easily applied; kill him on sight and prevent his entrance to the house and access to food supply at all hazards. How to rid the country of the mosquitoes which infest the blackbirds' haunts is far more difficult.

GRAIN FOR HOGS ON BLUE GRASS.

A subscriber from Poweshiek county, Iowa, who is feeding seventy spring pigs, asks concerning the cheapest grain ration that he can use in conjunction with blue grass. In his case corn is worth fifty-five cents a bushel, oats forty cents, wheat ninety cents, barley eighty-five cents and tankage $2.50 per hundred pounds.

As the feeding value of blue grass and timothy is very similar we cannot do better in answering this inquiry than cite the case of an experiment conducted at the Iowa station. Pigs weighing practically sixty pounds each were carried on a timothy pasture for 112 days, the object being to test a ration composed of corn with one made up of corn and shorts and another of corn and tankage. Where corn alone was fed it required 451 pounds of grain to make 100 pounds of gain, whereas in the case of a ration composed of corn five parts and tankage one part it only required 398 pounds of grain to make 100 pounds of gain. The shoats fed corn alone made an average daily gain of nine-tenths of a pound each, whereas those fed tankage gained 1.3 pounds daily each.

The other grains mentioned by this subscriber are relatively too high in price to use economically, save only that a small proportion of ground oats or ground barley might be used to raise the protein content of the ration slightly and in addition add to the palatability of the grain by introducing variety.

That the use of some product like shorts, tankage or oil meal is advised in connection with blue grass or timothy is indicated by the results obtained when the Missouri Board of Agriculture endeavored to ascertain the practice of some eighty-three different farmers on this particular point. It was found that some 72 per cent of these feeders believed in using something in addition to corn when hogs were pastured on blue grass or timothy. Thirty-three per cent of those who responded to the inquiry used middlings, shorts or shipped stuff, while 23 per cent supplemented the grain and pasture ration with milk. Only 2 per cent had obtained satisfactory results in feeding oats, and about 1 per cent used wheat.

Attention should be called to one additional fact in this connection, namely, that where high-priced by-products of any kind are used special pains should be taken to see that every little detail of hog comfort is looked after. It goes without saying that it is false economy to feed tankage that costs $2.50 per 100 pounds to pigs that do not have sufficient shade to protect them during hot weather, or on the other hand, this ration is too expensive to use in the case of hogs that do not always have access to plenty of good water. Furthermore it will not pay to feed tankage to pigs that are infested with internal parasites or to those having skin troubles. It is true that we might add that it does not pay to feed even a corn ration to unhealthy hogs, yet it sometimes happens that hogs can be taken through the summer on a cheap ration and sort of pull themselves together when the fall rains begin, in which case they may be finished up on corn and grass alone.

We believe most strongly in dipping or spraying hogs from time to time to keep them free from lice and to bring the skin into a healthy condition, and furthermore we endorse the practice of using good worm remedies at regular intervals during the summer and fall months.

STICKING TOGETHER.

The idea of the farm credit society will not down. As tried out in France and Germany, whether under the general name of Raiffeisen banks, or otherwise, the plan has been quite generally successful, although, of course, it must be conceded that agricultural conditions are so different in Europe from those in America that it does not necessarily follow the farm credit plan would work as well in this country. That it is making progress, however, is evidenced by the following item taken from a recent newspaper. We purposely leave the name of the town blank:

An experiment that will be followed with much interest has recently been started in ————. A number of farmers have clubbed together to form a credit society and, I am told, the scheme is being well supported by the banks. This particular society has for its immediate object the purchase of dairy stock with the idea of setting going a local dairy industry. The cows are to be purchased with money advanced by the banks on the joint and several credit of the members of the society. A maximum limit is to be fixed beyond which no member will be allowed to go. This and various other details would vary in different districts and according to the precise purpose of any credit society.

It will doubtless be a surprise to most to be told that this item is from a paper published in Rhodesia, South Africa. From France and Germany to Rhodesia, is a long trip, longer than from France and Germany to the United States. Yet the underlying idea of the farm credit societies seems to have stood the long journey quite well. The underlying idea in all these plans is simply this: communal responsibility for individual loans. Nothing has more conclusively proved that whole communities rise or fall together than the present trouble in California over the Japanese farmers. They obtain a foothold by buying a small tract of land at an exorbitant price. Their presence, together with their manner of living, almost inevitably results in a rapid decline in land values in the immediate neighborhood, with the result that the Japs buy or lease other lands at a much lower price than they were obliged to pay for the initial foothold. We are not citing this to add anything to the present Japanese controversy, but simply to show that nowhere is communal spirit more important than in the country. The French and German credit plan, as transplanted to South Africa, is nothing much more than this: whole communities of farmers sticking by one another and guaranteeing each other's credit until the average of prosperity is raised for the whole community.

Whether the plan would work out in America is another matter. But it is coming in for adoption and discussion and is one of the big, vital topics of the day.

THE SWAMP DRAINAGE PROBLEM.

The present secretary of the interior, Franklin K. Lane, of California, believes that the government can do no better work than to assist in the reclamation of the swamp areas which are keeping thousands of acres of otherwise fertile land in the grain belt out of profitable cultivation. He proposes that the United States Reclamation Service, which has heretofore devoted its energies to putting water upon dry tracts, now reverse the operation and devote at least a part of its energies to removing water from too wet tracts.

The swamp drainage problem is undoubtedly a serious one. There are approximately 100,000,000 acres of swamp and overflowed lands in the country. Were all these acres to be planted to corn and produce but thirty bushels to the acre, the annual returns would be $1,500,000,000. As long as these acres remain in nonuse, through an overabundance of water, the net loss to the nation is at least this immense amount each year. Therefore, it is as highly important that these lands should be placed in cultivation as that the arid and desert tracts of the West should be reclaimed.

The history of the swamp reclamation movement is interesting. In 1850 congress passed an act bestowing upon the states all swamp and overflowed lands in the public domain within their borders. There were some exceptions. For example, in Minnesota, there was a considerable area of swamp lands in Indian reservations, which, of course, did not pass to the state. The lands were patented to the various states from time to time. In 1898 the Arkansas authorities entered into an agreement with the United States whereby they ceded back all of the swamp lands which had not theretofore been patented to the state. This accounts for the 100,000 acres of public swamp lands in that state.

The individual states have found the swamp problem too large and too far reaching for unaided solution. The bill which it is proposed to introduce in the present congress, after conference with Secretary Lane and numerous prominent congressmen, is designed primarily for the reclamation of swamp lands on the public domain, but authorizes the inclusion in drainage projects, under certain conditions, of state or private swamp lands contiguous to public lands located in the same drainage basin. Under the terms of the proposed bill persons who make homestead entry on drained public land must pay the cost of drainage in annual installments. The states which own lands which are drained by government projects must bear their proper portion of the expense. Land in private ownership which may be drained in this way must bear the full cost of the work, its owners issuing bonds or giving other proper security, the expense to be a first lien on the land until paid.

The drainage problem looms larger and larger as land values mount higher and the necessity of an increased production becomes more apparent. Already it has been suggested by one of the high officials of Iowa that if the state is unable to secure the land upon which to try the prison-farm experiment at a reasonable price, one of the swamp lakes in the northern part of the state be drained and converted into a farm. This is a sign that men's thoughts are turning more and more to the reclamation of those areas which now, through a superabundance of water, are withheld from the cultivation necessary

to make the crop supply equal the demand and to add to the annual crop output and wealth of the various states.

Iowa Swine Breeders' Association

IN THE history of organizations of the state of Iowa having the advancement of the live stock industry in view, none has been so effective as the Iowa Swine Breeders' Association. Its regular meetings have covered a greater number of years than any other association and the results that it attained have been most apparent in forwarding the interests of the pork producing industry both with reference to their application to the farmer and to the breeder. It was, therefore, a matter to be deplored that neither farmers nor breeders took sufficient interest in the association to turn out to the annual summer meeting which took place at Ames, June 18th. A corporal's guard were in attendance. The program, which had been announced, contained subjects of general interest to be discussed by men who were entitled to consideration. Neither the president nor vice-president was in attendance, and, therefore, the duties of the chair were performed by the second vice-president, F. J. Sexsmith, of Orient.

A brief and pointed address of welcome was given by Professor Curtiss, in this he ventured the statement that no organization was more welcome at the college than the swine breeders. He believed that they came together more as students and that they extracted more information from their meetings than did any other organization of any sort. He said that the modern improved hog represented the highest efficiency in the attainments of the business of animal industry. No animal converts grains into high-priced meats so readily, or with so great a profit as the hog. In support of this statement the professor said that although the state had just disposed of the greatest corn crop ever raised and at low prices, the hog had netted $1 per bushel for every bushel fed him.

The chairman of the meeting responded briefly, saying that Iowa's swine breeders were always glad of the opportunity to visit Ames and that they never failed to go home with an accumulation of information bearing on their business which was not available from other sources.

"Forage Crops for Swine" was discussed by Prof. John M. Evvard. The professor's talk was illustrated quite largely by tables showing different combinations of forage crops, the manner in which they were utilized and the objects attained. A lack of space prevents a reproduction of these tables at this time. Exercise and range on green crops were the principal elements in the production of profit-making hogs. In his treatment of the subject of ideal forage crops he went into details with respect to blue grass and timothy, on which hogs paid a profit of 75 cents per bushel for the corn fed them; on red clover the return for the corn used was 90 cents a bushel; on alfalfa, $1.03; rape, 92 cents; sweet clover, 91 cents; oats, clover and rape, 95 cents; oats, peas and rape, 87½ cents; green rye, 95 2-10 cents. As a permanent pasture he said that blue grass excels all others. Rape was important for its cheapness and quick growth.

The practice at the college station was to feed lye for the purpose of neutralizing acids caused by feeding corn. A self feeder was used in feeding tankage and grain. A good many questions were asked at the conclusion of Professor Evvard's statements. These brought out the facts that he believed that tankage might be the means of spreading cholera and that, as a prevention of such results, he urged that purchase be made only from a reliable factory. Contamination, he said, came, not from the material itself, but from exposure to cholera germs after cooking. He said sorghum for silage might be used with a value equivalent to that of corn in dry sections, but that in Iowa it was not advisable nor profitable. Sorghum makes good hay and there is no danger from the first crop. The danger from its use arises from second growth. Oil meal at $30 per ton is not as valuable as tankage at $50. Skim milk at 25 cents per hundred pounds has a value equal to that of tankage at $2.50 per hundred pounds.

The gentleman who had been assigned the subject of "How to Grow the Pig from Birth to Maturity" was not present, but an informal discussion on the matter followed. W. Z. Swallow said he started pigs with new milk, shorts and a little corn. He thought that the milk of one cow fed to a litter of five pigs would make the pigs have a value in the fall sufficient to pay for a good cow. R. R. Blake said he fed new milk, oil meal, and tankage and gave the pigs the run of a clover pasture. Secretary Hancher fed a variety, including oil meal, tankage, bran and shorts three times a day with shredded corn two times a day and gave them access to a blue grass pasture. He increases the proportion of corn as the pigs grow older. Nothing, he said, finishes a pig as well as corn. He fed bran to add bulk. He said that little pigs fed five times a day did well, but that for older ones feeding three times a day answered the purpose. He feeds tankage and oil meal on pasture. He slops before giving the grain feed. He uses 100 pounds of bran and 400 pounds of shorts and includes about a quart of salt to each barrel of slop. He believes in feeding often and only so much as the pigs will clean up each feeding time.

Col. H. S. Allen, Russell, Iowa, had been assigned "Handling Private Sales." He treated it briefly and concisely, saying that one of the first essentials of successful private sales is the delivery of goods advertised or described in correspondence. Animals should be in good condition at shipping time and should be shipped clean, free from lice and in substantial, clean and attractive crates. In correspondence stock should be described in a clear way and in such a manner that there may be no misunderstandings. Inquiries should be answered by return mail. If it is not possible to supply the kind of pig the buyer wants tell him so frankly. Mr. Allen cited the fact that his best customers in private sales were those who had been buying from him year after year, and who had been secured and held by him in the shipment of animals that would do them good. He thought it was important that the pedigree of an animal be furnished to the buyer promptly at the time of the sale. Touching on the subject of shipping on approval, Mr. Allen said that he did not believe in the plan at all times, although it had, in a great many instances, proven satisfactory. The chance of difficulty arises from the fact that buyer and seller do not always weigh a hog in the same light.

"Public Sales" was the subject of a talk made by Col. H. S. Duncan, Clearfield, Iowa. A public sale, he said, had a far-reaching influence on the hog-raising industry. It is educational. The public sale is a school for those who attend. It gives opportunity for acquiring information as to the comparative value of animals and gives inspiration to the breeder of pure-bred stock. It tends to encourage learning values, appreciating individuality and knowledge of blood lines. It is a successful means for the promotion of breeds. Success of public sales depends upon many details. After a sale has been claimed all stock for sale should be reserved for it. He urged that field men of reputable farm publications be interested because they have great opportunity to render assistance. Catalogs should be distributed freely. The interests of farmers being the basis of the pure-bred industry, it is important that they be induced to attend the sale. On sale day all of the minor details should have been previously disposed of. The selling should be prompt and there should be sufficient help so that the breeder can give his

(Continued on page 9.)

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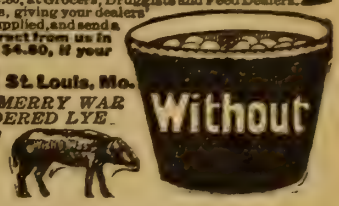

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Buy a **Kratzer** *now*, and you will have a beautiful, easy-riding, easy-running buggy whose high quality will be a credit to you; and you will have a good buggy for many years.

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Let us give you our catalog and the *real inside facts* about **Kratzer** buggies before you decide what buggy you will buy. If there is no dealer in you town, just mail the coupon.

Kratzer Carriage Co.
104 Des Moines, Iowa

Kratzer Carriage Company
104 W. First Street
Des Moines, Iowa

Send me your FREE catalog and details about Kratzer Quality carriages

Name_____

Town_____ R.F. D.____

State_____ Co.____

FARM FURROWS

TURNED BY A PRACTICAL FARMER

I never have raised as good pumpkins and squash since there has been no prairie sod to sow them on. The old stack bottoms, when breaking up a prairie meadow, used to raise whoppers.

In the days when sickle sections cost ten cents apiece, and the average farmer thought he had to hire a blacksmith to rivet them on, we were very apt to think twice before filling a sickle with new sections, but now that it is possible to get them for four cents apiece, and most every farmer rivets them on himself, buying new is cheaper than spending too much time grinding out the old ones.

The silo has solved the problem of winter feeding so well that pasture for warm weather is becoming more of a question than feed for cold weather. At one time it was common to hear a farmer speak like this: "I could keep more cattle if I had more feed to carry them through the winter in good shape." The silo has changed this, and now it's pasture during the summer that's more important.

Sprinkle kerosene over the surface of all pools or barrels of water about the premises, and thus strike a death blow to the mosquito-hatching industry.

As we grow older we can't see why pushing the lawn mower is not just as good exercise for a young boy or girl as dancing the turkey trot to rag-time music, but we do little thinking it always seemed easier to husk corn all day at a husking bee and have a whooping good time all night than to go into the field and husk alone.

The self feeders and automatic waterers do not "jibe" with the old Scotch saying, "The eye of the feeder fattens his stock." The trouble with too much of the feeding done nowadays lies in the fact that too much of it is left with the hired help.

The old sow, at this season of the year, is a seeker after green food, and to do her best by her litter she must have it. Raising hogs in dry lots is the most expensive way possible to conceive, yet, as cheap as fencing now is, many persist in doing it.

A commonly accepted theory regarding the handling of alfalfa now is that the cutting should be done on a cool, rather cloudy day. It is claimed that a hot sun drives the moisture from the leaves into the stalk, and while the leaves (the best part of the hay) will quickly shatter, the stem dries slower than it does without a burning sun.

We talk of the hog as a mortgage-lifter. How about alfalfa?

"As homely as a hedge fence" has been a common saying as long as I can remember, but, at the expense of considerable elbow grease, a hedge fence may be trimmed into a thing of beauty. I have forty rods of it that I keep trimmed, and I can testify to the amount of work necessary to keep it down.

How things do move and improve! Now some fellow has invented an engine for attaching to the binder for running the binding apparatus of the machine, leaving nothing for the horses to do but pull the binder, thereby saving the work of two horses, it is claimed. It is claimed that the engine can be operated for from thirty to fifty cents a day, and weighs but 200 pounds.

A farmer need not be dressed up "sprucy-like," but there is no reason why he should go like a "hobo." He can be neatly dressed and fairly clean most of the time, even though he may get a little hay seed in his hair.

Soon the weather will turn so warm (and often dry) that the lawn trees will suffer materially for want of sufficient moisture. Put the generous amount of straw around the base of each tree, weight it down with pebbles or round rocks, and thus retain the surrounding moisture. This also will kill out the sod which often bars the air and light from the roots of the trees, while the tedious job of cutting or pulling the grass and weeds away from them will be avoided.

Don't put the calf's grain in its skim milk, unless you wish to bring on a bad case of the "scours" or other digestive ills. Feed the skim milk first, giving the grain and mill feed to the calf in a separate vessel afterward.

A feed coop for the younger chickens saves many steps. A big one can be made out of a bundle of lath, and feed put in it can be reached only by the young chickens. They soon learn to come to the coop for their feed, so there is no hunting up each brood to feed them and a long wait while they are eating, to "shoo" the old hens away.

If lower than thirty-six inch woven wire fencing is used on the pasture fence a barbed wire should be placed not more than three inches above and well stretched, otherwise the cattle will soon learn to poke their heads through and in a short time the fence will be an eyesore.

Is the corn planter in shape to go into the field to-morrow? If not, see that it is repaired before putting it away because that "to-morrow" will soon be here again. The same rule should be carried out with every piece of machinery on the farm.

I find, in making concrete walks, that one must allow considerable for expansion. Leave plenty of seam and the blocks will not be apt to crack.

Automobiles are sold on a commission basis, and if one buys a machine of a make sold by a local agent in some city, the local agent gets his commission just the same, while the purchaser loses the personal supervision of his car that a good agent gives every machine he sells. Where one is a beginner, this is worth a great deal.

The barn plan is not finished before an arrangement has been made for an easy stairway for climbing to the hayloft. Climbing is not a proper word. It should be walking. Doing the chores is hard enough without any climbing.

Mowing the roadside is compulsory in most states, but the law that makes it so is seldom enforced. A man ought to have pride enough in his surroundings to keep the weeds down without a law that tells him to do so.

Heretofore most "laws of the road" have given the worst end to the autoist, which has been necessary to keep the speed maniac under control, but now, in most states, there is a law which says a slower moving vehicle must turn out and give half the road so a faster moving vehicle may pass. This will touch up the road hog, who is found riding in all sorts of vehicles.

No-Rim-Cut Tires
10% Oversize

Controlled by Secrecy

The essential feature in No-Rim-Cut tires is made under lock and key.

We control it by secrecy.

Other attempts to make tires which can't rim-cut have cost fortunes in faulty tires.

No-Rim-Cut tires, for years and years, have served hundreds of thousands well. Not one has ever rim-cut.

That is why the demand centers on them. Goodyear tires have come to outsell every other tire.

The Secret

The secret lies in six flat bands of 126 braided wires. They are vulcanized into the tire base.

That makes the tire base unstretchable. The tire can't be forced off without removing a rim flange. So we don't hook the tire to the rim.

With this hookless tire you turn your rim flanges outward—not inward as with clincher tires. Then the tire, when wholly or partly deflated, rests on a rounded edge. Rim-cutting is made impossible.

Extra Capacity

No-Rim-Cut tires have 10 per cent more air capacity than the same rated size in clinchers. And air is what carries the load.

This over-capacity, on the average, adds 25 per cent to the tire mileage.

So the tires save rim-cutting and save over-loading. They save so much that they have become the most popular tires in the world.

The Vital Bands of Wire

But our braided wire bands are considered essential to a faultless tire of this type.

Again and again other ways have been tried. And thousands of tires came back for replacement because the ways were wrong.

So the demand has come to Goodyears, in an overwhelming way. We have sold over one million automobile tires in the past 12 months alone.

No Extra Price

Now, our mammoth production has brought down the cost of this wanted type of tire.

No-rim-cut tires used to cost one-fifth more than clinchers. Little by little the cost has been cut.

Now no standard tires of any type cost less than No-Rim-Cut tires.

Think what that means—tires that can't rim-cut, oversize tires at no higher cost than old-types.

Don't you think that it pays to insist on them?

GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities **More Service Stations Than Any Other Tire**
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
Main Canadian Office, Toronto, Ont.—Canadian Factory, Bowmanville, Ont.

CURRENT EVENTS

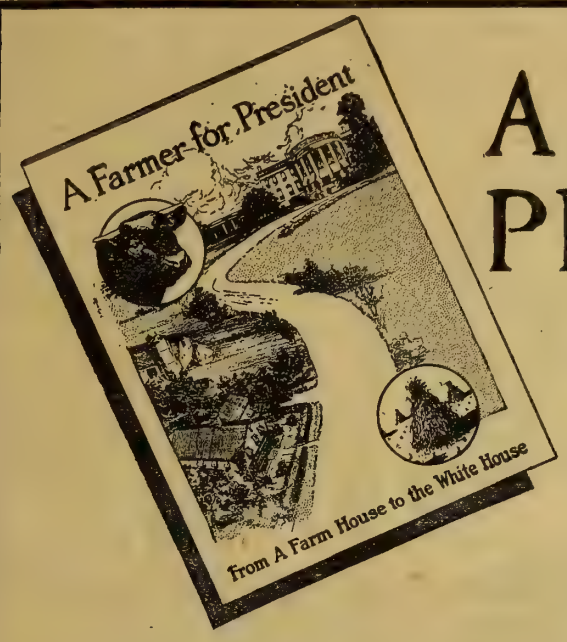
ILLINOIS is the first state east of the Mississippi river to grant woman suffrage. The legislature of that state has gone as far as it is constitutionally permitted in granting to women suffrage equal with men. Hereafter the women of that state will be permitted to vote for presidential electors; county collectors, surveyors, members of the board of assessors, members of the board of review and sanitary district trustees; and mayors, clerks, treasurers, aldermen and attorneys of towns and cities. Because of constitutional restrictions it was impossible for the legislature to grant women the right to vote for the great majority of state offices from United States senators and members of the legislature through the list to governor, judges of the supreme court and secretary of state, also for most of the county offices, such as sheriff, judge, treasurer, recorder and so on. The legislative action makes Illinois the tenth state in which women will have the right to vote on president in 1916, the list being as follows: Arizona, California, Colorado, Idaho, Illinois, Kansas, Oregon, Utah, Washington and Wyoming. The result in Illinois is looked upon as a great victory by the advocates of equal suffrage and a mammoth rally was held in celebration of the legislative action. An effort will now be made to bring about a constitutional amendment so as to give women complete suffrage. In the meantime the fight will not only be kept up in other states, but has already begun in congress to win the suffrage right for the women of every state with one nation-wide victory.

WITH the advent of hot weather congress is coming to realize that nothing is so desirable as to complete tariff legislation and adjourn. The senate finance committee has practically finished the consideration of the Underwood tariff bill and it will probably be in the hands of the senate by the time these words are read. A month or so will be spent in discussion on the floor, although it is practically certain that the bill will pass without amendment. Even with three democratic senators opposing the bill, because of the free wool and free sugar in three years propositions, the democrats can put the bill through with the vote of the vice-president. While the senate is thus engaged, two special committees are at work investigating President Wilson's charge that an industrious and insidious lobby is at work trying to prevent the passage of the tariff bill and investigating the charge that conditions are so bad in the mining regions of West Virginia that hundreds of the workers are in a state of peonage or industrial slavery. With all this, congress confronts a month of hot and hard work before adjournment can possibly be reached.

TWO-CENT railroad fare is declared to be legal in Missouri, Arkansas and West Virginia by the United States Supreme Court. As a result the state laws will be enforced and passenger rates reduced accordingly on all except the smaller roads and those which were able to prove to the court that the reduction would be unjust and confiscatory. The reduced rates become operative upon the Chicago, Burlington & Quincy, the Atchison, Topeka & Santa Fe, the Kansas City Southern, the Missouri, Kansas & Texas, the Chicago, Rock Island & Pacific (including the St. Louis, Kansas City & Colorado), the St. Louis & San Francisco, the St. Louis Southwestern, the Missouri Pacific, the St. Louis, Iron Mountain & Southern, the Wabash, the Chicago, Milwaukee & St. Paul and the Chicago & Alton. For the present the rates will not become operative on the St. Louis & Hannibal, the Kansas City, Clinton & Springfield, the Chicago Great Western, the Quincy, Omaha & Kansas City and the St. Joseph & Grand Island. This decision, following the one of a week prior, confirming the rights of the state to reduce rates and to govern intra-state traffic, in the Minnesota case, goes a long ways toward putting the people in authority over the common carriers and to reducing passenger and freight rates throughout the grain belt generally. Governor Major, of Missouri, declares that the railroads can be forced to refund all overcharges made since the state law was enacted, in 1905, in all cases where parties have proof of the overcharge.

PRESIDENT WILSON was justified in his charges against a persistent and insidious lobby. The senate investigating committee has discovered that interests which would be affected by tariff legislation have spent many thousands of dollars in trying to influence the public and the lawmakers, through the medium of publicity and lobbying. Last week's testimony disclosed that the sugar trust, for instance, succeeded in getting Senator Lodge, of Massachusetts, to order an article prepared by the trust's publicity department printed in the government records and sent broadcast over the country under his senatorial frank, resulting in a saving to the trust in the one item of postage alone, of many thousands of dollars. The disclosure simply confirms the general conviction that the franking privilege of office holders is grossly abused. "Leave to print" all manner of private documents and papers designed for personal gain is secured and the postoffice department is compelled to foot the bill of scattering this printed matter broadcast, adding to the postal deficit and discriminating against the private individual, compelled to pay a high rate of postage on everything sent out, in a most unfair manner. Publicity is proper, permissible and desired in many instances, so that the public may know both sides of the case, but to use the senatorial franking privilege to scatter private documents and thus save postage and give them an official sanction and endorsement is reprehensible, to say the least.

A correspondent writing recently in one of the South African newspapers remarks that there has been a remarkably rapid increase in the production of wheat in the Cape Province, and that within the next few years the area of land put under this crop will be enormously added to. The whole of the western seaboard from Cape Point northwards to opposite Saldanha Bay is well suited for the growth of wheat, and all that is necessary for a great forward movement is railway communication.



A FARMER *for* PRESIDENT

HERE is a striking little booklet written by a man who believes that somewhere in this broad land there is a farmer who is destined to become president of the United States.

Do you agree with him, and could you guess who that farmer is?

This booklet is frankly written to emphasize the leadership of the agricultural interests of America over all branches of industry. Incidentally, it is an advertisement for the Cross Country car—the result of forty years of manufacturing experience on the part of the Jeffery Company.

The success of the Jeffery Company is founded upon the same things that have brought success to the American farmer. This company is independent—likewise the farmer.

The car is an assembly of our own tried and proved products. We have sown carefully and have grown naturally, counting upon the future harvest rather than upon temporary gain.

The Jeffery Company was the first concern to advertise new cars in farm journals.

Sixty per cent of our output today is sold to farm residents.

This booklet will be interesting to every farmer.

The edition is not large, but we will send a copy free to every farm owner if he will fill out the coupon below, giving his full name and address, and the number of acres he owns.

We ask for this information because we know this booklet will be most interesting to successful farmers.

Send for this booklet

The Thomas B. Jeffery Company
Main Office and Works, Kenosha, Wisconsin
Branches Boston Chicago Milwaukee New York Philadelphia San Francisco

The Thomas B. Jeffery Company
Kenosha, Wisconsin

My name is_____

My address is_____
City State

I own_____acres of land.

I am interested in a car like the Cross Country.

Regal

Unrivaled Service on Country Roads

THE car that will give you the best and longest service at the lowest purchase price is the one you will naturally buy. The Regal Underslung is just such a car. Hundreds of farmers, after a careful comparison of car values, have selected it. These cars are giving unrivaled service under every conceivable road condition. Regal Underslung construction eliminates the danger of skidding or "turning turtle" on the roughest or steepest roads. A Regal will take you safely where you would not dare to travel in any other car. You can take pride in its beautiful lines and low, rakish appearance.

Write today for instructive booklets about this dependable, long-lived car.

Regal Motor Car Co.
307 Piquette Ave., Detroit, Mich.

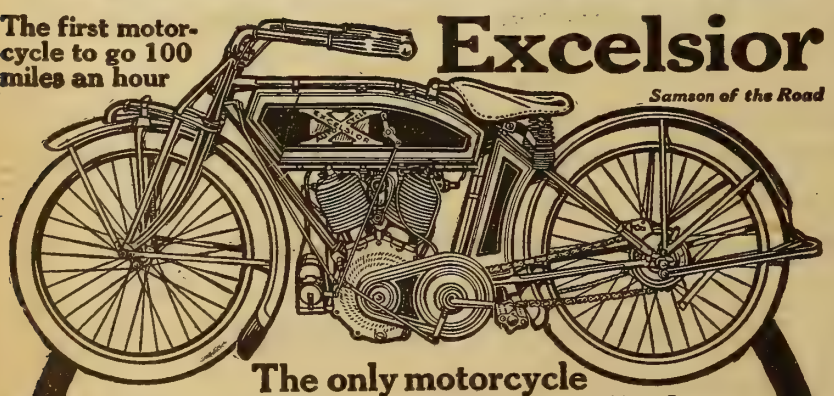
$950

Regal Model "T" Underslung Touring Car
Extra equipment, top, windshield and speedometer — $75
(81)

The first motorcycle to go 100 miles an hour

Excelsior

Samson of the Road



The only motorcycle with complete control in handle bars

You never have to take your hands off the handle bars of the Excelsior Auto-cycle. The right-hand grip controls the throttle. The left-hand grip operates the clutch. To slow up or stop takes just a slight twist. The simplest, surest of controls—a ten-year boy can do it—you can learn to run it in five minutes.

Excelsior Auto-cycle has wonderful motor
It's the most powerful engine ever put into any motorcycle. Every Excelsior victory is made with this regular stock design motor. These victories (see panel at left) prove the superior strength and durability of motor and entire machine.

Easiest riding on country roads
The Kumfort Kushion seat post and cradle spring fork absorbs all jars. Handle bars are so constructed that they can't twist on heaviest roads. The Excelsior holds best to the road.
The entire frame construction is re-inforced, and can be relied upon for strength and security.

Price reasonable, upkeep low, lasts for years
One Excelsior has run 59,000 miles. Others have run upwards of 30,000, 35,000 and 40,000 miles and still going. Its first cost is reasonable, its cost of maintenance low, its comfort and durability without an equal.
Excelsior Single, 4-5 H. P. Price - - - $200
Excelsior Twin, 7-10 H. P. Price - - - - 250

Write today for illustrated catalog and nearest agent's name
Learn all about how the Excelsior is built—how it has made racing record after record—how it is the fastest and most powerful, safest and most durable of motorcycles.
We'll also tell you where you can see the "X" and ride it. Write today.

Excelsior Motor Mfg. & Supply Co.
Department G., CHICAGO

Best at Portland, Oregon, Races June 9-13.

Excelsior won six firsts and one second out of seven events. An Excelsior 4 horse power single, which had run 68,000 miles in daily service, made five miles in five minutes flat—fastest time in its class.

***Few territories* open for live agents**

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

WIFE'S SEPARATE PROPERTY—DIVORCE.

A Subscriber, New Bloomfield, Mo.—(1) A man married a woman who had some furniture in her own right before marriage. Can the husband hold or dispose of the furniture? (2) If the wife puts the furniture in storage at the house of her husband's people can she take it away and is she liable for storage charges? (3) If the wife puts up fruit, can she claim it as her own? (4) If the husband asks her to go with him to the country on a farm with his brother and she refuses and he goes without her can she get a divorce?

Answer.—(1) The furniture is the separate property of the wife, and the husband has no lawful right to hold it or dispose of it without her consent. (2) The wife is liable for the storage charges. (3) If she does so with her own separate means she can claim the fruit as her own separate property. (4) She cannot obtain a divorce for such cause. A husband has a right to choose where the home will be, and it is the wife's duty to go with him to such place and if she refuses she cannot obtain a divorce on that account.

LANDLORD AND TENANT—IMPROVEMENTS.

A Subscriber, West Union, Iowa.—Has a tenant the right to improve the rented premises by erecting small buildings, windmills, fixing pumps and the like, without the landlord's consent, and have the expense charged up to the landlord where there is no contract to that effect? (1) Can the landlord be compelled to pay for the same?

Answer.—A tenant has no right to improve the rented premises at the expense of the landlord, without his consent. (2) He cannot.

SECTION LINES PUBLIC ROADS.

A Subscriber, Lewellen, Neb.—My husband and I have 480 acres of land in Nebraska taken up under the Kinkaid act, and have a patent for the same. There are section lines on three sides of the land, but we have no road on which to go to town, and have to go across other people's land, and open forty gates. This country is rancher land with great herds of cattle on it, and it is dangerous to cross even on foot. How can we have a road established by law?

Answer.—In Nebraska, the section lines in every county are declared by law to be public roads, and the county board may, whenever the public good requires it, open such roads without any preliminary survey and cause them to be worked in the same manner as other public roads. No petition, notice or finding is necessary, but you should apply to the county board and show it that the opening of a road on the section line from your land to the town is necessary.

HAULING RENT CROP TO MARKET.

Mr. R. B. W., Afton, Iowa.—B rented A's farm for three years, 1912, '13 and '14, in a contract subject to the sale of the place with ninety days' notice before March 1st, B to deliver part of the crops to market as rent. Does this mean that B is to haul the rent part of the crops to market before the first of March each year?

Answer.—This is a question difficult to answer, because of the vague and indefinite terms of the contract between A and B, but it is our opinion that the rent part of the crop should be hauled to market each year before the first of March. Whether or not A is required to haul the rental crop of a year to market after the expiration of that year, is a doubtful matter.

CONTRACT FOR USE OF LAND.

A subscriber, Lorimor, Iowa.—A and B stock a farm together. A owns the farm, and B is to furnish all the labor as against the farm. Is B required to pay cash for one-half of the pasture land?

Answer.—Guessing at facts which are entirely omitted from the above statement we are of opinion that the labor to be performed on the farm by B was intended to stand even against the use of the entire farm, pasture land included, and that B is not required to pay any cash for the use of the pasture land.

Electrify Your Farm!

Electrify your farm and save hours of time, miles of steps and a big pile of dollars. The power, convenience and luxury of electricity can be at hand *all the time*—summer or winter, rain or shine—if you use a few French Dry Batteries.

They Help All

Just the pressure of a button or a twist of the wrist and *presto!* the gasoline and automobile engine is started; both party and exchange lines of the telephone are working; gates and doors are opened; call bells are rung and scores of other duties are performed. Everyone in the family will benefit by the use of a few

Think of having electricity "on tap" all the Father, instead of fussing with a dangerous acne lantern in the dark barn, now simply pushes the button of an electric flasher. Mother doesn't stumble down the dark cellar stairs risking life and limb any longer. She "switches on" a light at the head of the stairs and goes her way in safety. A telephone between the house and the barn is a great convenience.

The mail-carrier can press a button on the mail-box way out on the road, which rings a bell in the house telling the folks that there's some mail in the box. These and dozens of other helps are yours with French Dry Batteries.

Get the Genuine

If you want a battery that will deliver a strong current for a *long time*, insist on the genuine French Battery—the dry-cell battery with an army of satisfied users. Poor-quality batteries give weak current for a short time and then "peter out" entirely. Don't take chances! Your dealer will tell you the particular French Battery you need. If you want to know more about French Dry Batteries and how they can help you do your farm work, send your name and address on a postal. Write today.

SANDWICH
(solid steel—money maker)
Motor Press

Puts you—or your boys—in the big paying, fast growing business of baling hay! "Net profit $18 to $22 per day," write Swartz & Mensch, Dixon, Ill. Other hustlers making $200 to $800 net profits monthly. And these men are using the Sandwich!

Our special terms to responsible people let you start with little money. And you pay from your profits. Unless we *know* the Sandwich will make you stacks of ready cash, we could not sell this way.

Gas Engine on Same Truck

Here's the most complete hay baling outfit in existence. Full power is driven from engine to press by heavy steel roller chain. It does away with slipping belts. The Gas Engine is the best quality—hopper cooled type—gear driven magneto—4, 6, 8, and 10-horse power.

The Sandwich has a simple time-tried self feeder and a big feed opening. A great windrow baler. Beats every ordinary press from 2 to 8 tons daily. 25 tons are an everyday job for the Sandwich; often 30 to 40.

This Book FREE

Write today for postpaid copy of this amazing story of profits others are making. And if you are interested in Horse Power Presses, let us tell you about our large line. Address

SANDWICH MFG. CO., 170 A St., Sandwich, Ill.
Box 170 Council Bluffs, Ia. Box 170, Kansas City, Mo.

SAVES ONE MAN

Two men can operate this 2-horse, 3-stroke, self-feed Auto-Fedan Hay Press and bale more hay than three men can with any other press. Let us send it to you for 30 DAYS FREE TRIAL. Write today for full particulars.

Trojan Steel Gates Are Real Gates.

Made of 15-8 high carbon steel tubing all No. 9 galvanized wire mesh, special hinges, self-locking latch, raises at either end, absolutely hog tight, bull proof and wear proof. Strongest, best looking and longest wearing gate in the world.

You Can Get One FREE

Sold on 30 Days Trial. Guaranteed by $10,000. Bond.

You take no chances. We ship the gates. We let you try them, test them, compare them with any other at any price. If they are not the best ship them back at our expense.

Sold Direct from Factory at Factory Prices.

You save middleman's profit. That's why they cost less than others; that's why more Trojan gates are sold than all others. Investigate.

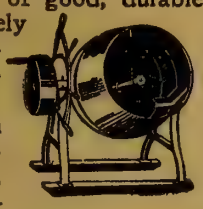
Write for Catalog and Full Particulars of Our Introductory Free Gate Offer.

Our proposition is fair and square. One gate free to one farmer in each county for helping introduce.

Standard Mfg. Co., 300 Main St., Cedar Falls, Ia.

CONCRETE MACHINERY

Did you ever stop to consider that the secret of good, durable concrete is largely due to the mixing; that no matter how careful you may be in getting the proportions correct, if it is not properly mixed it is worthless?



The Iowa Line of Mixers All Mix Perfect.

Manufactured by

Iowa Foundry & Mfg. Co.

FORT DODGE, IOWA.

Everything in Concrete Machinery.

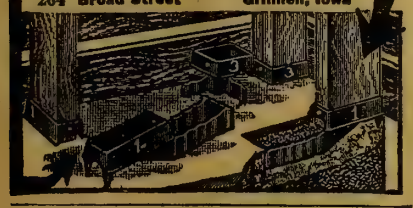
In Cement Floors and FOUNDATIONS Use ROSS IRON Studding SOCKETS

The "100-Year" Post Support

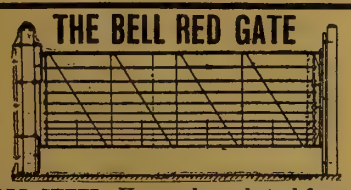
Simply tap sockets down into soft cement. No sills to rot. No toe-nailing to rust. Fits *any* upright. For Cribs, Granaries, Barns, Sheds, Garages, etc. Write today for FREE Booklet. Learn how to make upright supports *everlasting*. Get book—"How to Build Cement Floors and Foundations."

G. M. ROSS & CO.

264 Broad Street Grinnell, Iowa



THE BELL RED GATE



ALL STEEL. Heavy channel steel frame. Nine spring steel rods. Will spring but won't bend or break. Automatic latch both top and bottom. Absolutely hog tight. Adjustable to raise over snowdrifts. Adjustable hinge keeps gate level. Built to stand hard usage.

WILL OUTWEAR FOUR WOVEN WIRE GATES

Sizes—4, 10, 12, 14, 16 feet.

KETCHUM & GASTON CO.

MARSHALLTOWN - - IOWA

BUTLER STEEL **Grain Bin**

Corrugated. Can't Cave In. Rat-Proof. Fire-Proof.

Can be used for store house. Capacity increased by additional sections. Keeps grain perfectly. Large door and removable shoveling board. Ask for booklet showing letters from satisfied users.

BUTLER MANUFACTURING CO.

1210 W. Tenth Street, Kansas City, Mo.

ORNAMENTAL FENCE

25 Designs—All Steel

Handsome, cost less than wood, more durable. Don't buy a fence until you get our Free Catalogue and Special Prices.

We can save you money.

Kokomo Fence Machine Co., 498 North St., Kokomo, Ind.

IOWA SWINE BREEDERS' ASSOCIATION.

(Continued from page 5.)

personal attention to everyone in attendance. Colonel Duncan believes that for fall sales the farm is the best selling place, but that for winter sales, the town affords more conveniences and adds to the net results. He urged that in the case of winter sales January dates be used so as to avoid the congestion which usually takes place during February.

W. M. McFadden, secretary of the American Poland China Record Association, Chicago, Ill., talked on "Some Points to be Observed by the Breeder." As a prefatory remark he said that the Iowa Swine Breeders' Association had accomplished more results than any other swine breeders' association of which he knew. He advised that those who were engaged in swine breeding should make it their principal business. The great fault at the present time is that hog raising was made secondary to farm raising. It should be the central idea around which farm operations should circulate. A hog man should be a hog man 365 days in the year and should be enthusiastic every day. He should take pride in having a light, well-made, attractive crate. He should have stationery which would be a credit to him and to his business. It should have tastiness and add dignity to his operations. He should raise what people want instead of what he happens to like best. He believed it is an art for the breeder to be able in advance to realize the demands of the future and take advantage of them. The wise breeder is he who sees and knows fads and gets in line so as to avoid suffering from hog bubbles. Salesmanship is important. Individuality of animals should not be overlooked. Feed and care are strong features. No success can be obtained without well-bred stock to begin with, good care, good feed, and good sales. He believed that in the disposition of the stock the breeder should adopt one of three plans, either a private sale, a public sale, or through the influence of the show ring.

Col. John R. Tupper, Woodbine, Iowa, responded to the subject, "What to do with the Kicker in the Show Ring and Elsewhere." He disposed of it very quickly by saying, "Let the kicker kick." He found, he thought, that the results of kicking were more often serious to the kicker than to anybody else. On the other hand he felt the kicker was an angel as compared to the knocker.

Dr. Stange took up as the subject of his talk "Methods of Controlling and Eradicating Hog Cholera in Iowa." He stated that the eradication of hog cholera is most difficult in practice. Cholera had first presented itself in Ohio in 1833 and it had gradually spread until it was now common in practically every country in which hogs are raised. It seemed that hog cholera came in waves, that it would become prevalent for three or four years with increasing fatality and that it would then begin to disappear. This year, he said, it would probably reach the high point in Iowa and begin to grow less. Few disease germs have so great vitality as those of cholera. Carbolic acid does not injure them and the germs have been known to live for two years. Hogs that once pass through cholera do not have it the second time. Sucking pigs do not become readily infected. Some preventives may have merit. Most of them claim too much. There are two forms of hog cholera lesion, one of which appears in the lungs and the other in the intestines. When they have the form found in the lungs the affection is commonly spoken of as swine plague. This form is most serious. Buyers should quarantine animals brought to the farm for three weeks before permitting them to mingle with the farm stock. After an animal has been exposed to cholera the contamination will show itself in less than three weeks. Every precaution should be taken. Hogs should not have access to streams rising outside the farm. Streams are the most common means of spreading cholera. Stray dogs assist. Crows and pigeons

(Continued on page 16.)

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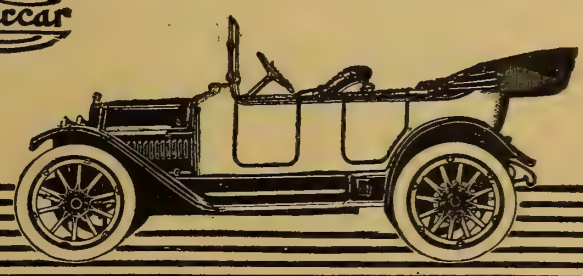

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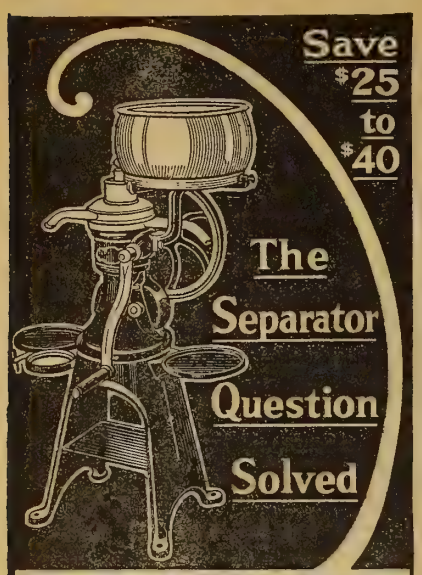

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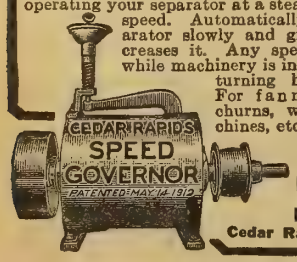

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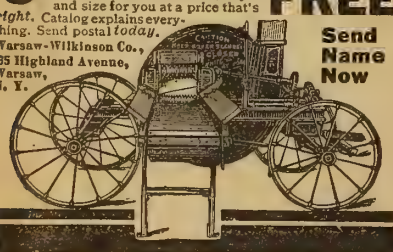

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DAIRY

MILKING FOR ALL THE MILK.

The way in which a cow is milked has much to do with keeping up a full milk flow for a definite length of time. It matters not how great the expense and pains the dairyman may take in the breeding, rearing and feeding of his dairy animals, unless the milking is correctly performed he will not realize the full returns that his cows are capable of giving him. If by thorough and proper milking a cow can be induced to give more milk during the period of lactation, it surely does not pay to slight this part of the dairy work.

At first thought the operation of milking appears to be a very simple one; the truth is, however, that milking is something of a fine art. Many farm dairymen seem to think that almost any hand can do the milking. But this is far from true or at least it is not advisable to have anybody and everybody do the milking, for there is all the difference in the world in milkers. One who understands the work and enjoys it can, when in practice, milk a cow in far less time and yet do more thorough work than a hand who milks mechanically and with no object in view beyond getting done as soon as possible. Carefully conducted experiments have proved that there is a large difference in the amount of milk obtained from the same cow in the hands of different milkers. The milker who is gentle in his movements is pretty certain to get all the milk from the udder that it contains, while a milker whose movements are rough is certain to lessen the milk flow materially in a few days.

A frequent change of milkers is a mistake, even in instances where two or more members of a family do the milking and each seems to understand the work to about the same degree. A cow soon becomes accustomed to her regular milker and if a change is made she will not give down her milk so well nor can the new milker perform the work so easily or thoroughly as the regular milker.

A good milker must be quick. This does not mean that he must go at the work in a rough manner, but it means easy and rapid milking, yet not so rapid that the cow's teats will feel more or less discomfort through the hands grasping them firmly and rapidly. Milk the cow dry before leaving her, but do not continue the stripping after the milk has all been drawn. The practice of stripping by mere drops when the milk has nearly all been withdrawn will often cause free milking cows to contract the stripping habit. The skilful milker will continue to withdraw the milk rapidly until the udder is empty.

It is very common for the majority of milkers to err in the other direction, however—that is, they do not take the time to secure all the strippings. Many milkers think it is not worth while to do this, but it is safe to say that few of them have ever taken the time to figure this matter out so they may know to a certainty whether it pays or not. Let us see whether or not it really does pay to get all the strippings at each milking.

Though the first milk drawn from the udder has a very low test, perhaps less than 1 per cent, the last strippings are very rich in fat averaging from 10 to 15 per cent, and, in exceptional cases, as high as 30 per cent of butter fat. This depends to some extent upon the individual cow and the stage of her lactation period. But if the last half pint of milk withdrawn should test as high as 12 per cent butter fat, a pint of the strippings would be equal to about six quarts of the first milk drawn. Supposing the average amount of strippings left behind at each milking to be half a pint, or a pint a day, during a lactation period of 300 days this will amount to about 310 pounds of milk, which will contain thirty-five pounds of butter. At thirty cents a pound, this butter will have a value of $10.50. Now this will be extra pay for thorough milking. Two minutes for each cow in adition to the regular time devoted to the milking will be sufficient to secure the last strippings, and the remuneration for this extra time will be at the rate from seventy-five cents to $1 an hour.

It must also be taken into consideration that, aside from the direct loss when the milking is not done thoroughly, there is another loss due to the fact that this practice will, if continued for even a short time, seriously interfere with the cow's productiveness. Nature will soon stop providing this extra milk if it is not taken.

Economy of milk production also demands that the milking be done at once after the udder has been touched. When the udder is touched by the milker's hands the signal is given through all the ducts and secreting surfaces to begin operations, and the quicker the milk is withdrawn thereafter the better. It will not do to clean the udder and then wait a considerable time before commencing to milk.

Each cow should be milked at the same speed and at a fixed time each morning and evening. Any changes in these matters will tend to irritate and excite the cow. A cow soon comes to know when her milking hour arrives and she expects and wants to be milked then. If disappointed, she probably will withhold a portion of her milk when the milker does make his appearance, and this is always a serious trouble. The only way in which a cow that has become confirmed in the habit of withholding her milk can be brought back to her former usefulness is to adopt regular methods for the milking, then, a skilled, intelligent milker should be supplied who has learned to manipulate and massage carefully the udder at that stage of the milking process when

Leading herd boar in herd of spotted Poland China hogs owned by J. D. Gates & Son, Ravenwood, Mo. See field note.

"Ohio" 1913 Model
The Improved Logical
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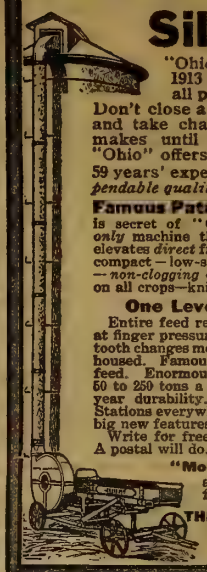

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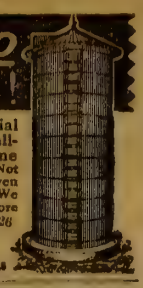

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250 HEAD in herd. Some very choice young bull calves. Write us, let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
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Cows - Heifers - Bulls
All tuberculin tested and just as represented
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WE NOW OFFER 30 HEAD
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the cow has become accustomed to withhold the remainder of her milk.

Dairy authorities have formulated various rules as to how a cow's teats should be handled during the milking operation, but nothing very definite can be said on this subject that will apply in all cases. Cows are of different dispositions and they have different lengths and shapes of teats, and the hands of milkers differ a great deal. Tugging at the teats is not to be recommended. Good milkers do not pull the teats; in fact, they move them very little. The milk works down into the teats during the process of milking; a little muscle at the end of each teat contracts and prevents the milk from running out of its own accord. The milker must grasp the teat in such a manner as to prevent the milk from going back into the udder when the teat is squeezed, at the same time the milk must be forced into the pail. By grasping the teat with the full hand with the thumb encircling it just above the forefinger, then closing in succession the second, third and little fingers, one after the other, the object is accomplished. By closing on the teat with the thumb and forefinger first the milk is prevented from going back into the udder, and by pressing with the other fingers in succession it is forced out. When once learned, of course, all the movements are made mechanically. The teats of all cows, especially those with short, hard teats, will not admit of this method of milking, and in these cases some other will have to be used, as the physical conformation of the teats renders most convenient.

Regularity in all things connected with the milking, smooth, rapid milking and a cheerful disposition in the milker are as effective for filling the milkpail as are good cows and well-balanced ration. W. F. Purdue.

INTEREST IN CREAMERY GROUNDS IMPROVEMENT.

The movement to beautify the grounds surrounding the creameries of Iowa is certainly a worthy one and should be a source of great benefit to the dairy industry. Prof. M. Mortensen, who originated the idea, has the hearty support of all the buttermakers and creamerymen in the state and the general appearance of the creamery yard will undoubtedly be changed until it becomes a credit to the community in which it is located.

It is the intention to encourage permanent improvement as much as possible in order that the grounds may have a clean, neat appearance throughout the entire year. The establishment of a level, well-sodded lawn, the construction of sidewalks and the building of cinder roadways to the receiving platforms will probably be among the first improvements to receive attention. At first thought it might seem that this would necessitate a great deal of work. However, the work of several men and a team can make a great transformation in the grounds of the average plant in a short time. After the first work is done properly the task of keeping up the lawn and drives is a small item.

In order to create an interest Professor Mortensen started a contest among the creameries. The decision of the judges is to be based on pictures taken of the plants at the beginning and close of the yearly contest. The judging and awarding of prizes will take place at the thirty-seventh annual convention, October 13th to 18th.

The prizes offered for the contest are very attractive and should arouse a strong contest. Professor Mortensen offers $20 as first prize, and at a recent meeting of officers of the Iowa State Dairy Association it was decided to add three other premiums. These are $15 for second, $10 for third and $5 for fourth prize, bringing the total offering to $50.

It is hoped that there will be a large number of entries and that the buttermakers of Iowa will show their ability to make their plants attractive as they have their efficiency in the manufacture of butter.

Farm wages, with board, in the United States averaged, for men, $10.09 per month in 1866; $13.53 in 1875, and $20.80 in 1909.

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NEW YORK CHICAGO SAN FRANCISCO SEATTLE

TWO HORSES ONLY

This means that two horses can easily handle the "Best" digger, either in clay or sand, and at the same time get the maximum amount of work out of it. The many testimonials from satisfied customers prove this statement.

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SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

R. C. RHODE ISLAND REDS

THREE grand pens, two of them headed by first-prize winning males. Also a fine farm range flock of heavy winter layers. Send for free mating list giving prices of eggs and day-old chicks. I guarantee safe delivery of eggs and chicks and a hatch that will satisfy you. Address
H. E. HUSTON, - Iowa Falls, Iowa

FARM range R. C. R. I. R. exclusively. Eggs hatching fine. All fowls healthy. 48 fine pullets and hens in our pens now in farm range flock. We will sell eggs at the low price of $4 per 100 or $2 per 45. Summer and fall chickens cheapest and easiest to raise. Order from a healthy and vigorous flock. J. B. Heisel, Grinnell, Iowa.

$3.00 for 50 EGGS

FROM our brilliant red strain S. C. Reds. Four grand pens. Free mating list. Fine ckls. for sale. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

R. C. Rhode Island Reds

EGGS now only $2.50 per 15, from pen headed by first-prize cockerel at the big St. Paul show, 1911. Eggs from fine farm range flock only $3.00 per 100. H. E. Huston, Iowa Falls, Iowa.

S. C. R. I. Red eggs from a heavy-laying strain at 75 cents per 15; $4.00 per 100. Orders filled quickly. Address M. E. Edwards, Route 2, Walnut, Ia.

S. C. R. I. Red Eggs from bred-to-lay strainst pen $2 per 15, range $1 per 15 $5 per 100. Address F. L. Shackleton, Boone, Iowa.

REDUCED prices on R. C. R. I. R. eggs. Pen 1 ckls score 93 1-4, 75c, 15; Pen 2, 50c, 15; $2.50, $4 per 100. Miss Maggie Henning, Ira, Ia.

ROSE Comb Rhode Island Red eggs for hatching, cheap. $5.00 per 100, or $1.25 per setting. Address **Mrs. Charles Belz, Conrad, Iowa.**

S. C. R. I. RED EGGS $3 per 100; $1.25 per 30.
C. H. North, R. D. 2, New Hartford, Iowa.

S. C. R. I. RED bargains. 50 yearling hens at $1.50 to make room. Eggs, $3 per 100. L. G. Johnson, Box H, Steamboat Rock, Iowa.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Rader, Laurel, Iowa.**

EGGS For hatching. Both combs, Rhode Island Reds. Fine winter layers. Eggs $1.50 per 15; $2.50 per 30. Prof. H. E. Bowman, Randolph, Ia.

FARM range, deep red R. C. Reds, long back, low tail, red eyes, scored 90 to 94, eggs 15c ea., guaranteed ckls, $2.50, $5 ea. Highland Farm, Hedrick, Ia

PLYMOUTH ROCKS.

BARRED PLYMOUTH ROCK EGGS AT HALF PRICE.

FOR the remainder of June I will sell eggs at half price. Pen 1, $1.50 for 15; $2.50 for 30; $3.75 for 50. Range flock in proportion.
EARL BLOOM - - Bridgewater, Iowa.

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

HIGH-class Barred and W. Rock eggs, B. pens, $2; flock, $1, 15; $4 per 100; W. $1.50, $3, 15, Breeder Poland China. Jas. H. Duncan, Lineville, Iowa.

BARRED P. ROCK exclusive for 30 years. Large boned, well barred. Egg 15, 75c; 30, $1.25; 100 $3. Oak Grove P. Farm, Mrs. H. J. Vanfleet Earlville, Ia.

Buff Rock Eggs from magnificent birds; quality first, value second; 15 yrs. a breeder. Circular free describing buffs. J. H. Kelley, Altoona, Ia.

ORPINGTONS.

RARE BARGAIN IN WHITE ORPINGTON EGGS

EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address
F. Fortmann, Box 23, Dyersville, Iowa.

S. C. Buff Orpingtons exclusively. Eggs from high-scoring special matings, $1.50 for 15; utility flock $1 per 15. Stock for sale. V. H. Conner, Shell Rock, Iowa.

Coleman's famous Buff Orps., Prize winners, June sale, 100 yrlg. hens, 6 cks. Eggs, young stock half price after June 1. Mrs. C. E. Coleman, Clarinda, Ia.

241 EGG Strain S. C. Buff Orpington, 100 breeders at $1.00 each. Eggs ½ price. Circular free. W. L. Bardsley, Neola, Iowa.

S. C. B. Orpingtons--Yearling and 2-yr-old breeding stock at prices below values. Chance to buy foundation stock cheap. Glynn Poultry Yds., Cascade, Ia.

White Orpington Eggs $2 per 15, $10 per 100. Special price on larger amounts. Ed Leclere, Central City, Iowa.

EGGS from S. C. Buff Orpingtons. 15 $1: 100 $5. Also Fawn and White I. R. duck eggs, 15, $1.25. Mrs. Emilie Plough, Charter Oak, Ia.

When writing to advertisers please mention The Homestead.

DOGS.

Scotch Collie Pups

I HAVE 6 male pups, sable and white in color, six weeks old that are out of an excellent working bitch. Their sire is also a good worker. Both are natural heelers. Price $5.00 each for the next two weeks. Better order at once if you want one.
J. E. SMITH - - - VICTOR, IOWA

SCOTTISH TERRIERS

THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. Harr, Riverside, Iowa.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collie pups for sale. Sable and white in color, perfectly marked. Sired by Hilander II No. 148502. Dam Willing Lassie No. 148503, two of the best heel driving dogs in the state. Price $5.00 for females and $10.00 for males. Write me quick. Le Roy Brown, Lamoni, Iowa.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

GRAND S. & W. COLLIE Male puppies from natural heel drivers, S. & W. bred bitch. Instructions for training. Pairs not akin. Address E. J. Thomas, West McHenry, Illinois.

SCOTCH COLLIE PUPS 5 months old, sable and white, pedigreed, ready for work, four males and one female. $10 each. H. J. ROMPF - R. 1 - Marion, Iowa

CENTER KENNELS Fox Terriers—50 all ages—bred or open—females—best ratter, pet or watch-dog. T. H. Kaldenberg, 1401 Main St., Pella, Iowa.

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

FOR SALE—Nicely marked Fox Terrier pups, also two grown females. Males $8, females $3. Louis Moeller, R. R. No. 2, Everly, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

FOR Sale full blood S. C. Pups; all well marked from parents that are natural heelers. Are all sable and white. Earl M. Filson, Birmingham, Ia. R. R. 3.

WYANDOTTES.

Silver Laced Wyandottes

I WON at Mt. Vernon poultry show silver cup for best pen in American class, silver cup for best cock, hen, cockerel and pullet in show and silver cup for best display. 3d pen at Cedar Rapids. Eggs $1 per 15, $5 per 100. G. H. Burge, Mt. Vernon, Iowa.

WHITE WYANDOTTE EGGS

$1 for 15; $4 for 100. The Whitequill strain, heavy layers, big bone. Scored hens, $2, unscored, $15 doz.
ETHEL H. SHAW, Route 6, Newton, Iowa.

White Wyandottes Exclusively. Scores from 92½ to 95, chalk white, will please; $5 per 100; $1.50 for 15. **Mrs. F. O. Elliott, Kent, Iowa**

Buff Wyandotte Eggs for hatching. $1.50 per 15, $2.50 per 30, $6.00 per 100. Farm range. Mrs. L. H. Davidson, Algona, Iowa.

White Wyandottes 100 hens, 10 cock birds for sale cheap, No. 1 breeders. Geo. W. Livingston, Monroe, Iowa.

PARTRIDGE Wyandotte eggs for hatching at $3 per 100. Breeding stock for sale at reasonable prices. Address Thos L. Morlan, Indianola, Iowa.

FAHA'S Silver Wyandottes. Eggs from 5 best pens in America, 15, $1.25; 30, $2.00; 100, $5.00 Frank Faha, Jr., Box 620, Dyersville, Iowa.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

DUCKS.

PEKIN DUCK EGGS

Eggs from prize-winning fowls at reduced prices. $2 per 22; $6 per 100. One man writes: "13 ducks from 13 eggs."
John M. Hall Williams, Iowa

ENGLISH Penciled I. R. duck eggs, white egg strain, $1.00 per setting for balance of season. Address Nishna Collie Kennels. Oakland, Iowa.

LANGSHANS.

PRIZE-winning strain Black Langshan cockerels, score 94, fine large, thrifty birds; eggs, 13, 50c; 26, $1.00; 100, $3.00. W. W. Baskerville, Earlville. Iowa

BIG greenish, glossy black Langshan, score 91 to 96. Hens $1 each, cockerels $2.50, eggs 10 cents. Guaranteed. Osterfoss Poutry Farm, Hedrick. Ia.

BABY CHICKS.

CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. **20th Century Hatchery,** Chatfield, O.

R.C.B. LEGHORN BABY CHICKS 10c in 50 and 100 lots. Eggs, $4 per 100; 200, $7. **George E. Banton, Epworth, Iowa.**

ANDALUSIANS.

EGGS from Blue Andalusians, $1.50 per 15; Silver Spangle Hamburgs, $1.25 per 15, and Buff Rocks $1.00 per 15. **A. J. Arends, Blairsburg, Ia**

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

VITALITY IN CHICKS LACKING.

One of our Nebraska subscribers sends the following inquiry:

What is the reason that little chicks do not feather out well? We raise Barred Plymouth Rocks only and have often had one or two chicks that did not feather out right. They seem to grow all right, but are bare and mostly die. Last season there were many of them and this spring about one-third of all we have are not feathering right. Some of these were hatched under hens and some in incubator. We feed chick food, wheat screenings, bran and corn meal mixed with some beef scraps, also plenty of pure water, charcoal and grit. Could we give them any other food that would make them feather out? We keep them dusted for lice.

The direct cause of undeveloped and twisted feathers can frequently be traced to diseased kidneys. Very little is known so far in regard to this organ in fowls. Our thought on reading the first part of this letter was that maybe wheat bran and beef scraps would help develop those tardy feathers, but reading farther we find that this flock of chicks is to be envied so far as feed and care are concerned. It is barely possible, but not at all probable, that the insect powder is injurious.

To get at the basis of the trouble we must go back one generation and possibly several generations. This flock of chicks is lacking in stamina or inherited strength. The parent stock is at fault some place along the line. There are many ways by which the vigor of the flock may be lost: Incorrect housing, overfeeding of some kinds of feed and not enough of something else, usually too much carbonaceous food and not enough green feed, lack of exercise causing a fat flabby hen that is no good as a breeder. A fat hen is good to see if she has hustled enough to be firm of flesh. Continued inbreeding will soon run a flock down and out of vigor. This brings the very pertinent question of line breeding to mind. To the novice inbreeding and line breeding are identical. There is a vast difference. This is a subject of itself and will be discussed in the near future.

The down that first appears on a chick is in reality the tips of the growing feathers. As the feather pushes its way out the down becomes worn off and the full-formed feather appears soon. It is barely possible that the place is infested with depluming mites, thus complicating matters.

If a flock of hens is fed for winter eggs, lay heavily from October until spring and then their eggs used for incubation, we are laying a foundation for failure and it doesn't matter how it is spelled, there is failure nevertheless.

By far the safest plan would be for our inquirer to dispose of his flock and start over. Only in extreme cases is this advisable. Two years of partial failure is an extreme case and it is unprofitable to take further risks.

THE DOUGLAS MIXTURE.

Several inquiries have been received recently from subscribers who have mislaid or forgotten the recipe for the Douglas mixture. It is composed of sulphuric acid one-half ounce, copperas one-half pound, this amount to be mixed with one-half gallon of water. This makes what may be known as a stock solution, one tablespoonful of which is placed in one gallon of the drinking water used for the fowl.

Ask your neighbor to subscribe for The Homestead.

POINTERS.

—Frank Faha, Jr., Dyersville, Iowa, writes that he has nearly 1,000 young Silvers, and for that reason he has changed his advertisement in this issue and is offering eggs now at bargain prices, 15 eggs for $1.25, 30 for $2, 100 for $5. Many of our readers have already sent for and received Mr. Faha's catalog and mating list, and consequently know the quality of his stock and matings. Readers looking for Silvers, with the wide-open centers and intense black edging, will make no mistake in buying eggs from these matings. See advertisement on this page.

Cures All Bunches, Curbs, Splints,

spavins, windpuffs, thoroughpin, swelling of the throat and glands, cuts, bruises, scratches, greased heels, lameness, also lump jaw and all cattle blemishes. For over 30 years

Quinn's Ointment

has been the *standard* for horsemen, veterinarians, farmers. Sold under a strong guarantee—if not satisfied after using it, you get your money back. If your druggist can't supply you, send us $1 for trial bottle—prepaid. Safest—surest—most humane remedy. *Write today* for free booklet—testimony of leading horsemen.

Used 30 Years $1.00 Prepaid

W. B. EDDY & CO.
Department H Albany, New York

SANOSEN

FOR HOG WORMS

Concentrated—Powerful

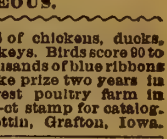
ONE ounce for 25 hogs. Price 50 cents per ounce. Send for booklet and free samples.
Downs Mfg. Co. - Bloomfield, Nebraska

PRATTS **To Kill Lice and Mites** **PRATTS**

on fowls and in the houses, use
PRATTS POWDERED LICE KILLER
25c and 50c per package
and PRATTS LIQUID LICE KILLER
35c quart; $1 gallon
Each the best of its kind
"Your money back if it fails"
160-page poultry book 10c by mail

At all dealers, or
PRATT FOOD COMPANY
Philadelphia Chicago

KENDALL'S SPAVIN CURE



—has saved thousands of dollars and thousands of horses. The old reliable cure for Spavin, Ringbone, Splint or lameness. For sale at all druggists. Price $1 per bottle, 6 for $5. "Treatise on the Horse" free at druggists, or write to Dr. B. J. KENDALL COMPANY, Enosburg Falls, Vt., U. S. A. 5

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 15 YEARS WITH THIS VARIETY. Eggs, fresh and securely packed. Large flock of exceptional quality, having farm range. 15, $1; 50, $3; 100, $5; 200, $9.
R. R. STEWART, R. 2, Charles City, Iowa.

SINGLE COMB BROWN LEGHORNS LOW JUNE PRICES.

PEN 1—75c for 15; $1.25 for 30; $1.35 for 50; $2.50 for 100. Range flock, 65 for 15; $1 for 30; $1.25 for 50; $2 for 100.
EARL BLOOM - Bridgewater, Iowa.

MORRILLVILLE POULTRY FARM

ROSE Comb Rhode Island Reds exclusively. Eggs from four grand pens ranging in price from $10 to $3. Incubator eggs $6 per 100. Baby chicks a specialty. Send for mating list. Mrs. A. L. Morrill, Pontoosuc, Ill.

SINGLE Comb Brown Leghorn eggs from 150 high scoring hens mated with large nicely marked ckls. Heavy laying strain. A few choice ckls., $10 ea. Eggs, $1 for 15, $2 for 50, $3.75 for 108. Satisfaction guaranteed. Address Edw. Dooley, Selma, Iowa.

EGGS from 100 Single Comb Brown Leghorns, including my winning hens and pullets; mated to males scoring to 93 1-2. $1.75 per 50; $3 per 100. Indian Runner duck eggs, $1 per 15. Mrs. Will Michael, Selma, Iowa.

R. C. BROWN LEGHORNS. Pure bred. No culls. Bred for size and laying. Free range, high fertility. Eggs, $2 per 50. $3.50 per 100. $6 per 200. Address E. E. Snively, Jefferson, Iowa.

ROSE COMB BROWN LEGHORNS. Pure-bred eggs at $3 for 105 this month. Address Mrs. Laura Mather, Clarksville, Iowa.

ROSE COMB BROWN LEGHORNS exclusively. Eggs for hatching $4.50 per 100. Safe delivery guaranteed. Mrs. L. W. Renaud, Bondurant, Iowa.

Rose Comb White Leghorn Eggs $1.50 per 26. $4.00 per 100. Address Mrs. J. L. Anderson - - - Fostoria, Iowa.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

MINORCAS.

MINORCA EGGS for sale from prize-winning pens of Rose and Single Combs. Elmwood Poultry Farm, Blakesburg, Ia.

BRAHMAS.

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 98½ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

EGGS—Barred Rocks, Bronze Turkey—EGGS

BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each. 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

B. LANGSHANS, I. R. DUCKS High-scoring stock. Eggs 75c per 15, $4 per 110. Satisfaction guaranteed. B. A. Randell, Mt. Zion, Ia.

The Old Reliable Chief

WITH angle iron frame is the best constructed Cupola made. If you want a perfect ventilator, one that is ornamental, bird, snow and rain proof buy our Chief.

Write for prices and catalog.

SHRAUGER & JOHNSON
418 Walnut St.
Atlantic - Iowa

B. M. C. BARN CUPOLA

Provides thorough ventilation. Cheaper than wood. Ornamental, lasting, attached to any barn. Best galvanized iron, shipped knocked down, easily set up. Weather proof. Bird proof. Free illustrated circular shows styles and prices.

BUTLER MANUFACTURING CO.
1424 W. 10th St. Kansas City, Mo.

Pop Corn Wanted

WOULD buy for cash from growers a few car loads of 1912 crop white rice pop corn. State quantity, quality and price wanted.
B. B. Clapp, 545 Laurel Ave., St. Paul, Minn.

ALFALFA

SAMPLES and prices of native grown, non-irrigated "Acorn Brand" Alfalfa Seed.
ROSS BROTHERS SEED HOUSE
203 E. Douglas - - - Wichita, Kan.

BINDER TWINE

FACTORY TO FARM. WANT FARMER AGTS
Write quick. **AUGUST POST, Moulton, Ia**

LANDS AND HOMES

WE actually help the settler to help himself. How? We build houses, make clearings, buy wood products for cash, sell outfits (team, wagon and harness) on credit, give 10 years to pay. We are owners, improved farms and farmland in Taylor County, Wis.; great dairy county. Safe, sure large returns. Write today for free literature, giving facts from government records. Loeb Hammel Realty Co. (not inc.), Medford, Wis., members Wisconsin Advancement Association.

MINNESOTA, greatest dairy state in Union. Millions acres wild land in best dairy section of state can be bought cheap; long time; easy terms. State school lands, free homestead lands, improved farms, Maps and literature sent free. Fred D. Sherman, Commissioner of Immigration, Room 208 State Capitol, St. Paul, Minn.

WRITE TODAY

FOR big list of Eastern Iowa corn farms. Close to city of 35,000. Best of home markets. Everything to make farming pleasant and profitable. Low prices, easy terms.
HUNTER LAND CO. - Cedar Rapids, Iowa

GOING TO CANADA

LEARN all about the best grain growing district in the Western Canada. Write for descriptive booklet giving full particulars of the Wolseley district. Address
Secretary - Treasurer Board of Trade, Wolseley, Saskatchewan, Canada.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 2856 Washington Blvd., Chicago, Illinois.

WOULD YOU BACK YOUR OWN JUDGMENT when you saw a farm snap? If so come and let us show you land in the best soil of northwest Iowa and southern Minnesota. Write for particulars.
Seaton & Brown, Spencer, Clay County, Ia.

For Sale A 440 acre valley farm, very rich land. No overflow. $5,000 worth of improvements. 3 houses, barns, windmill, etc. 3 miles from Vinita, Oklahoma. Price reasonable. Only one-third cash. Address
W. M. MERCER - - - AURORA, ILL.

FOR SALE—Eastern North Dakota, slightly rolling quarter section; no improvements. One mile from county seat, black soil; town has 5 elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Ave., Peoria, Illinois.

WANTED Good tenants for good farms well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. **The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.**

SOUTHEASTERN KANSAS
IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

FREE COPY OF REAL ESTATE BULLETIN describing over 100 farm bargains and thousands of acres unimproved land in Minnesota. E. Akerson, Lindstrom, Minnesota.

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write today for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

IF YOU WANT A HOME in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. HAMILTON, Winterset, Iowa.

GOOD 280-acre Iowa stock and grain farm at only $125 per acre. Will exchange for well located Kansas land and some cash. Sheldon & Tedford, Mt. Ayr, Iowa.

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. Address **SEWELL LAND CO., Garnett, Kan.**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

ADVERTISING NOTES.

One of our advertisers has gotten out a striking little booklet written by a man who believes that somewhere in this broad land there is a farmer who is destined to become president of the United States. The booklet is very interesting and we would suggest that our readers secure a copy of it. More about it can be learned by writing the Thomas B. Jeffery Co., Kenosha, Wis., whose advertisement appears on page 7 of this week's issue.

Excelsior motorcycles are advertised on page 8. While this vehicle possesses the high quality of others it also has an advantage in that complete control is obtained in the handlebars. The right hand grip contains the throttle, the left hand grip operates the clutch. The machine can be operated without removing the hand from the handlebars. Prices are reasonable and repair bills low. For descriptions or special prices write to Excelsior Motorcycle Mfg. & Supply Co., Dept. G, Chicago, Ill.

Farmers or others who contemplate the purchase of farm lands either for the purpose of engaging in actual farming or for that of investment will see from the advertisement of the Canadian Northern Railway on page 2 that an opportunity is now presented for a personal investigation of a great area of cheap farm lands at a most insignficant cost. The advertisement quotes railroad fares from principal western railroad points. Facts with reference to the land may be obtained by addressing a request to R. I. Bell, general agent, 66 West Adams St., Chicago, Ill., or E. I. Wright, general agent, corner 4th & Jackson Sts., St. Paul, Minn.

More and more the advantages of the gasoline engine as applied to transportation is making itself felt. Farmers have just begun to realize the advantage of a motor truck such as the Model H, Reo advertised on page 2 of this paper. The truck in question costs but $750 and has a carrying capacity of 1,500 pounds. On good roads it will handle as much of a load as any two-horse team and it will do so at a cost of keep which is far below that of the animals. It costs nothing when not in use and the risk of loss is practically nothing. The numerous advantages and benefits of the motor truck are described in a catalog for which address Reo Motor Truck Co., Lansing, Mich.

The Innocent (?) Fly.

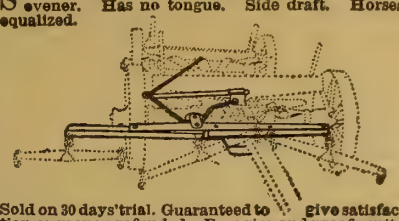
Remember those verses you used to hear when you were just a little chap, about the spider and the fly? How, when the spider had his traps all fixed and then invited the fly into his parlor, you used to be sort of afraid that maybe the fly would get caught, and breathed a sigh of relief when he escaped from the wiles of his treacherous enemy? In those good old days the fly seemed to be a nice little fellow, but long acquaintance with him has revealed his true character. He is really the meanest, most exasperating creature on earth. It doesn't make any difference whether you are in the house or the fields, the flies are there first, and torment you with relentless energy. But it is the horses and cows which are practically unable to protect themselves, who suffer most from the flies. The poor animals go nearly crazy with pain and nervousness. And naturally in this condition horses can't do the work they ought to do nor cows give the quantity of milk you should get. In fact, animals injure and tire themselves more by fighting flies than by work. Twenty-six years ago a farmer who recognized the great loss caused by flies discovered a preparation which gave perfect protection to his own stock. He found that his cows gave three and one-half to five quarts more milk daily, and his horses did double the work when kept free from flies by his new preparation. Such a discovery was of too much value to all farmers and dairymen to be kept to himself, so he formed a company to manufacture Shoo-Fly—the name he appropriately gave his new article—and now for over a quarter of a century Shoo-Fly has been successfully protecting the animals of thousands of farmers all over the country. If your dealer doesn't have it, the Shoo-Fly Manufacturing Company, Dept. 40, 1310 Tenth St., Philadelphia, Pa., will send for $1 enough of their preparation to protect three cows for a month with their patented three-tube sprayer. Their faith in their article is so great that if it doesn't protect your animals to your satisfaction they will return your dollar. Every farmer and dairyman should at least send for the booklet telling about this valuable fly-repellent, which will be sent free. See page 10.

Teaching Agriculture at Highland Park.

Highland Park College, Des Moines, is one of the first schools in Iowa to prepare to comply with the law passed by the recent legislature which requires the teaching of elementary agriculture in the public schools after July 1, 1915. Pres. George P. Magill announces that an eight-weeks' course in agriculture will be included in the summer term at Highland Park College, which opened June 16th. Prof. A. N. Smith, a graduate of Iowa State College of Agriculture, has been secured for the new department. Under Professor Smith the summer students at Highland Park will be taught the fundamentals of soil culture, forestry, fertility conservation, stock judging and the other important features of farming. Professor Smith was born and reared on a farm in Jefferson county, Iowa, and attended the public schools of Fairfield. He was superintendent of schools at Milo for several years, and later was principal of the schools at Fairfield. Since graduating from Ames he has been in educational work in South Dakota, coming here from Aberdeen. See page 15.

Schluter 3-Horse Evener

SOMETHING new, the Schluter 3-horse wagon evener. Has no tongue. Side draft. Horses equalized.



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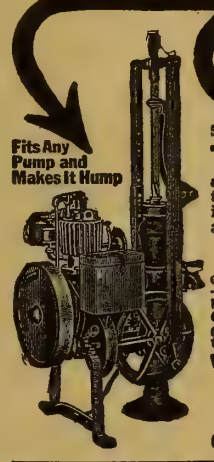

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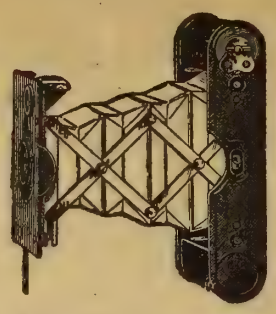

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THE HOME

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WITH THE EDITOR.

Sometimes a stray anecdote makes a profound impression upon the mind—as is proved by the fact that it recurs time and again. The following comes under this head:

One day a young mother, overburdened by work and loss of sleep, spanked her two-year-old baby and scolded the one next to him. The sobbing little ones ran to their grandmother to be comforted. After she had put them to sleep she went to her daughter, who said, shamefacedly, "I don't know what possesses the children that they irritate me so; I'm cross at them before I know it. I know I ought not, and I pray for grace, but I don't seem to get it." The mother's reply was, "You need to pray for wisdom as well as grace. You are wearing yourself out trying to keep your children's clothes clean, overclean, and the floors scrubbed, overscrubbed. You put cleanliness before godliness which would give you grace to put up with a certain amount of untidiness and allow you to keep control of your temper."

So many women are like that young mother. Cleanliness, it is true, is akin to godliness; but godliness—self control and sweet temper in this connection must come first.

There is more work to be done in the average farm house than the housemother with a family of little ones can possibly do as she would like it done, without help. When help is unavailable what shall she do? Must she insist upon keeping to old standards of neatness and cleanliness, and meals that demand much labor? That is one path open to her. Another one is to study the situation carefully, prayerfully even; and, after doing so, reduce labor in every direction where possible without actually interfering with the health and higher life of the family.

Let the housemother once realize that the well-being of the family depends more upon her health and temper than upon such things as clothes or clean floors, and she may be trusted to govern herself accordingly.

HOME AND HOMEMAKING.

A NATURE CREED.

I believe in the brook as it wanders
From hillside into glade;
I believe in the breeze as it whispers
When evening's shadows fade.
I believe in the roar of the river
As it dashes from high cascade;
I believe in the cry of the tempest
'Mid the thunder's cannonade.
I believe in the light of shining stars,
I believe in the sun and the moon;
I believe in the flash of lightning,
I believe in the night-bird's croon.
I believe in the faith of the flowers,
I believe in the rock and sod,
For in all of these appeareth clear
The handiwork of God.

THINGS THAT MAKE FOR HAPPINESS.

It is not rare gifts that make men happy. It is the common and simple and universal gifts; it is health, and the glance of sunshine in the morning; it is fresh air; it is the friend, the lover; it is the kindliness that meets us on the journey; it may be only a word, a smile, a look—it is these and not any rarity of blessing that are God's gentle art of making happy.

SOWING WILD OATS.

We often hear it said, and by fathers of boys, too, "He is sowing his wild oats—we all do it." It seems to me that any father who is a farmer would quickly see the fallacy of this. More and more in the agricultural world it is being understood and taught that the best results are to be gained by pure, clean seed, carefully sowed, and cultivated. Yet many will affirm that even if our boys are allowed to "sow wild oats" and carelessly cultivate their young lives, a harvest of good may be expected in after life. They expect the weeds to disappear from the human life by some magic means; but mothers! if the harvest ever amounts to anything, after such sowing, it will be because the weeds be burned out as by fire. If the fathers of our land could only be fully roused to the dangers which threaten our boys, the boys themselves would learn to look at such things differently.

FOR THE COOK.

Mint Peas.—Cook the peas in the regular way, but add one or two mint sprigs while cooking. This adds a delicate flavor of mint.

Cherry Brown Betty.—In a buttered quart pudding dish arrange alternate layers of stoned cherries and bread crumbs, seasoning each layer with bits of butter, a tablespoonful of sugar and a pinch each of ground cinnamon and nutmeg. When the dish is filled, add a sirup made from a tablespoonful of water and two of sugar, cover the top with crumbs and, after placing the dish in a pan of boiling water, cook for about an hour in a moderate oven. Serve accompanied by a stirred hard sauce.

Strawberry Fritters.—Beat the yolks and whites of two eggs, separately, to a stiff froth and then add to the yolks one saltspoonful of salt, one tablespoonful of sugar and two tablespoonfuls of oil (the oil very gradually); blend thoroughly and, when well mixed, gradually stir in a little at a time, one cupful of sifted flour, one teaspoonful of baking powder, half a cupful of cold water and a cupful of strawberries that have been cut in quarters and allowed to drain for ten minutes. The batter should be very thick and should be allowed to stand in the ice box for an hour before using, folding in the whipped egg whites just previous to cooking. Fry by the spoonful in deep, hot fat and roll in powdered sugar, serving with a hard sauce.

AMONG OURSELVES.

I have two quite interesting letters for your attention this week, and as they are somewhat lengthy I will not take up any of our space in commenting on them. I leave that for you, later on. But I do so wish that our mothers would "act" more unitedly and with some of the Roosevelt "strenuosity" on the schooling of their own children. Discuss with each other, learn, plan, do!

Though for sixteen years a reader and for fifteen years a subscriber to this paper I have not written you a letter for several years. Fifteen months were spent in southern California. While there I wrote a letter to this department and then failed to send it. If all of you could only take that trip you would be well repaid for the expense. We so managed it that we were not "out" anything for the trip nor for expenses while there, the man of the family working enough at various occupations, carpentering, picking oranges, etc., to pay expenses while there; buying a few acres as an investment while there and selling after we returned home for enough of an advance to pay traveling expenses. Of course, we were economical, but we saw so many sights and enjoyed the fruit and flowers so much. But it was of another matter I wished to write. How many of you are taking the interest in your rural schools that you should? So many let their work keep them from visiting the schools and so many pay no attention to the progress of their children. As long as the children speak well of the teacher and make no complaints they think everything is all right; while others, if the children bring home a tale of woe think the teacher "no good." I do think neither the teacher nor the children have a good chance in our schools as they are arranged. There are too many grades, they make so many recitations, the classes do not receive the time and attention they need. Will not some who live in townships where consolidated or centralized schools have been tried, especially for more than one year, tell how they have succeeded? How do you get along with that great drawback, the transportation question? Consolidation or centralization seems to be the only way out and I think more should be published in regard to "educate the public." Can't we have some letters from such communities telling the success and the drawbacks of such system? It seems good to see the names of those who used to write when we first subscribed for this paper and also to know we have the same editor; a friend to us all, she seems.

One lady in talking of consolidated schools objected on the ground that the children needed a chaperon along as they were transported to and from schools, "you wouldn't want your girl with a crowd of rough boys, all the way to and from school, without a chaperon." What have the mothers to say about that in the places where they have had consolidated schools for some time? Anything you can tell us either for or against consolidation would surely be of benefit now that so much is being written and said of the question. It is experience that needs to be made public now. If any club of women is needed in the country these days it seems to me to be a club of mothers to work with the teachers to improve the schools. Would it not be a good idea to meet at the schoolhouse one afternoon each month, with the teacher? The teacher and the mothers would then take more interest in the schools and the schools

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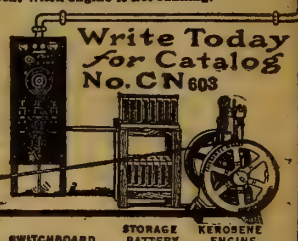

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would surely benefit thereby. If the mothers would arrange and get to "pushing" surely the solution of the school problem would "move along." I do wish we might have a good discussion and something come of it.

I have been a reader of this department for a few years. I like it fine. I always turn quickly to the home pages. There I always find some good things that will benefit any housekeeper; then there is a lot of other good things all the way through. A few papers back I read an article on the screened porch and you asked that someone who had one write about it. As we have two of them I thought I might say something that would help someone—and that is what we are here for, to help each other. In the first place, I will say there is nothing about the house so nice and useful as a screened porch (unless it is another screened porch). Our porches are plain ones, but mighty handy. The good man of the house and I put on the screens. We called up the hardware store and got the different widths of screening, then we measured the porch and put our strips of wood just where we wanted to tack the screen and by getting the different widths we didn't have to cut the wire, so there was not waste. Then being pretty handy with my left hand and the hammer I helped the boss tack on the wire. Our largest porch is 7x12. The other is smaller, but the wire only costs about $5. I paint it every year and it keeps in good condition. We have had ours four or five years and it is good yet. Where a porch is screened the heat from the kitchen goes out in the porch so all parts are warm alike—unlike the screen door where all the flies stick on the door till it is one solid mass of flies. Where we have two doors to the kitchen we can use the one where the wind blows and the flies never bother at all. If there is anything I hate worse than anything else it is the nasty fly. I suppose one reason I hate them so is when I was a child I always had to brush the flies off the table. I used to dread meal time because I only had one hand to eat with, brush flies wth the other and keep both eyes peeled to watch that I didn't brush someone in the face, but now it is different. I'm glad I don't have any flies at all. If they do get in I get them out right away—we use our largest porch to eat in; it's fine to eat out in the fresh air where we can see the little birds hopping about and listen to their sweet songs—just like a picnic, only no bugs or flies—our threshers always enjoy the cool north porch. When you make yours have it as wide as you can, for ours is not as wide as it should be—it would be a lot better if it was wider. In the winter it makes the finest place you ever knew to put your meat. We get a quarter of a beef and put it out on a table where it freezes and keeps fresh without salt. Then we keep our refrigerator on the porch, too. I have vines over the east end so it is shady and cool. When the snow is too deep to hang up our washing outside I hang it up in the porch where it freezes, but the clothes don't blow and break to pieces as they do outside. I let them hang there till I get ready to iron. I finish drying the thicker ones on the umbrella clothes rack. We got a lot of those hooks that screw in the wall, then put the clothes line back and forth across the porch. Our line is seven times across the porch and what a washing I can put out there! On the end of the small porch we have a closet where I keep the men's jackets, overalls, the egg cases, etc; there everything is out of sight. I must quite for this time. Does any one who reads this paper know a piece, "Cherokee Rose?" If so, will you please send it to the department? I would be so glad to get it.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

GEOGRAPHY AT HOME.

(First prize.)

Some folks say geography would be an interesting study if one could travel and see something of what he studies. This is a fact, but some children overlook the opportunity when it is close at hand. Children who live on large farms can see a great many of the things which they study about in geography. Very few farms are without a ditch which quite often contains falls and rapids. On our farm is a creek called Gas creek. There is a large waterfall in it which I call Gas falls. The falling of so much water has worn the bottom of the creek to so large an extent that the water at times reaches the depth of fifteen or twenty feet, although the creek is just a mere ditch. This pool of water is cool and clear. I sometimes call it Gas lake. But a better example can be had by building a dam across a small stream, causing the water to rise to a great depth and width. The part of the stream above the dam makes a good example of the inlet, the lower the outlet. We sometimes hear of "oxbow loops," caused by sediment carried down stream by the water. Small oxbow loops are to be seen close to nearly every small creek. If a person would look his farm over and get the outlay of it, he might draw its outline and put in the rivers, falls, lakes, woods, low places, hilly and high places, name the hills and other things I have mentioned, and he would have a very interesting map. If one wished to go on so far with this method of studying geography, he might place the fields on his maps and name them as he would a country. I wish some boy or girl would try a few of these experiments and write and tell what you have learned from them.—Ralph Baylock, age 13.

The Kildee Incubator.

(Second prize.)

One summer three of my cousins from Galesburg, Ill., came to visit us on the farm. My grandpa was cultivating corn and we were out watching him when we saw three Kildee eggs; they were out in the bare field with a few straws about them. As they were in the way of the cultivator I took them to the house, and put them into a mustard dish and put the top on; the top of the dish was made to look like a rooster. I wanted to save the eggs for my cousins to take back with them to the city. One day some little friends of mine came to visit me, and I went to show them the eggs, but when I took the top off there sat three little birds instead of three eggs! It keeps my cousins and me busy getting bread and bugs to feed them. We named the dish the Kildee incubator. I think that old rooster is a good old rooster; don't you?—Irene Milnes, age 12.

Overcoming a Difficulty.

(Third prize.)

I once knew a very smart old hen. Her name was Biddy. At the time I knew her she had ten little chickens. One hot morning these little chickens became very thirsty. They were very restless and peeped continually. Their mother was unhappy about it. She ran to and fro. She brought them worms and seeds. But the chickens wanted water, so Biddy began looking for water. At last she found some water in a high tub near the wood shed. She could fly up and drink, but the little chickens could not fly so high. They cried harder than ever for water when they saw their mother drinking. Biddy stood on top of the tub, and tried to think what to do. She saw a stone near by with a hollow in it. She gave a glad cackle. She filled her bill with water; then she flew down and poured it in the hollow of the stone. Then she called her chickens to drink. She filled the hollow again and again until every chicken had all the water it wanted. Then they all went to the wheat field together.—Brown Eyes, age 14.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

2d Quar. Lesson 13, June 29, 1913.

REVIEW: THE VICTORIES OF FAITH.

The fascination of the story of Joseph is that it is true. It is a cross-section of human life. You see the emotions and motives of mankind in action, stirring and impelling. That is what makes it universal and perpetually applicable. It has no provincial or racial limitation. That justifies twenty-five million persons (the Sunday school population of the world) in turning their attention to this tale of long ago. The story of Joseph is a moving picture, instinct with life, color and activity. It moves not only itself, but it moves those who look at it. It has passed before each successive generation and aroused the strongest compunctions. It is the story of sin, its turpitude and penalties; exhibits the progress of awakening, conviction, and conversion; reveals the possibility of forgiveness and reconciliation. Extremes certainly meet in the story of Joseph. Murderous jealousy of his brothers is matched by his own self-possessed and forgiving spirit. "As sheep before shearers is dumb, so he opened not his mouth." Twenty years later the brothers appeared before an Egyptian prince to buy bread of him in famine. That prince, blazing in his jewels, is

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After two years of experimenting and actual operating tests we are ready to furnish simple, dependable electric lighting plants for farm use. You can now make your own electric light for the house, barn, outbuildings and yard with a complete, easily operated electric lighting plant, guaranteed by Sears, Roebuck and Co. You can now have every lighting convenience enjoyed by city people. There need be no more poor light on your farm. Make your home attractive, make reading and sewing a pleasure, light up every dark corner by installing one of the

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Sears, Roebuck and Co.
Chicago, Ill.

$250 Motorcycle Given Away

YOU SEE in this picture a boy riding one of the $250 Excelsior Motorcycles we are giving away. In other parts of the picture are the faces of several other boys. They are hard to find, but by turning the picture about you will be able to see them. Mark at least two of the faces with a cross (X) and send the picture to me. Be sure to send me your name and address, for I will tell you all about the contest in which you can win the seven-horsepower motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1,500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

PEOPLE'S CO., • 515 Popular Building • Des Moines, Iowa

$25 for a Name for this Pony

I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

COPYRIGHT, 1913, BY A. M. PIPER

A. M. PIPER, 650 Popular Bldg., Des Moines, Ia.

the brother from whom they once took coat and liberty. The brothers are knocking like mendicants at a palace door one moment. The next they are seated at a regular banquet table and served by the prince in person. But the narrative is not merely one of startling situations; it is fairly studded with ethical principles of priceless value. Some incidents in Jacob's variegated career make fitting prelude to the history of Joseph. The destiny of the Hebrew race was within the narrow circumference of a bowl of soup when Esau sold his birthright for the mess of pottage. In that barter both brothers are to be condemned: Jacob for his craftiness, Esau for his epicureanism. Jacob sought a spiritual thing in a worldly way. Esau despised a spiritual thing and bartered it for the material. Esau eats, drinks, rises up, and goes away—goes to oblivion, where he belonged. Jacob, on the other hand, rises to eminence; not, however, because of his despicable craft, but in spite of it. But Esau's prowess could easily undo Jacob's plotting. Risk of rage of the skilful hunter had not been counted. The heir by craft to the chieftainship finds himself a shelterless fugitive. One comforting dream is given him on his way to the forty years of exile. He sees in a vision a rock staircase peopled with angels, and feels that the lonely place is really a gate of heaven. A reverse! So it seemed, when the heir to the chieftainship of Israel became a slave. But whether an event is a reverse or not depends upon what God means by it and the use man makes of it. If Joseph had become a man hater and spent his time bewailing his hard lot, going as slave to Egypt would have been a reverse. On the contrary he triumphed over circumstances and made himself indispensable to prince or prison keeper or Pharaoh, as the case might be. Joseph was a rose of Jericho. He bloomed anywhere, palace, pit, or prison, it mattered not. He was brilliant and fragrant under most adverse circumstances, and has justly become the universal ideal of personal purity and disinterested kindness. But the rose tree in Joseph's lovely character developed into the sturdy oak under powerful temptation. He stood erect, crying: "How can I do this great wickedness and sin against God?" From prison cell to throne room is a startling, abrupt transition, but really Joseph paved every step of the way, and it took him thirteen years to do it. He got honey out of the eater by submitting to chastening providences. He worked out his own salvation at the same time God worked through him those beneficent purposes which have always been his pleasure. He intended to bless Joseph and make him a blessing; and Joseph, by patience, industry, and piety, put himself in the way of getting and being a blessing. Joseph had a prime opportunity of disentangling himself from his race and family. He would have been justified in doing so by his brothers' cruelty. He had nothing to gain, all to lose, by dallying with his brothers. But Hebrew race feeling is a proverb. He could not forget his country or countrymen. Like Moses, later, he was willing to give up the pleasure of Egypt, and royalty itself, if need be.

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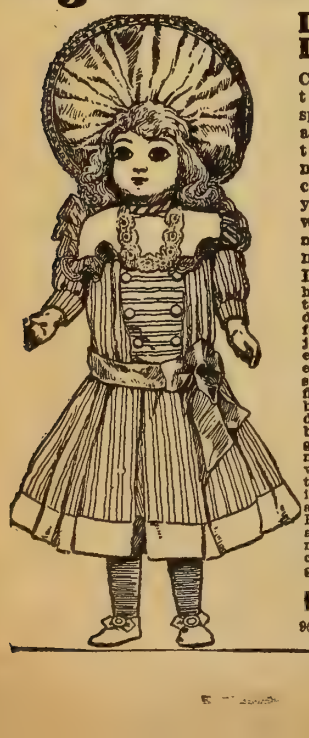


D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.

902 Popular Bldg., DesMoines, Iowa

WHAT IS THE MOST PROFITABLE CROP.

The American farmer, as a rule, does not count his own time, the value of the land or the cost of his horses and machinery in estimating his profits on grain, says C. C. Bowsfield in "Making The Farm Pay."

If he has a crop of 100 acres of wheat that will clear $500 for him after reckoning the value of seed, the cost of help and the expense of threshing, he puts it down at $500 profit, though he has put most of his year's time into it, besides maintaining the land and equipment of horses and machinery worth several hundred dollars.

The following table showing the relative value of crops is based on Mr. Bowsfield's own experience:

	Gross	Net
Wheat per acre	$ 15.00	$ 8.00
Field corn	30.00	20.00
Sweet potatoes	150.00	110.00
Potatoes	125.00	75.00
Onions	250.00	150.00
Cucumbers	200.00	150.00
Strawberries	300.00	200.00
Apples	250.00	200.00
Cherries	200.00	150.00
Clover	25.00	20.00
Alfalfa	45.00	30.00
Timothy	20.00	15.00
Millet	25.00	20.00

IOWA SWINE BREEDERS' ASSOCIATION.

(Continued from page 9.)

do their share. Hog buyers and neighbors should be excluded from the herd in times when cholera is threatened. Dr. Stange thinks the simultaneous method of inoculation is the only one of real merit. He thinks that the introduction of cholera at the time of inoculation should be through vaccination and not from pen exposure. Hog yards should be broken up and put into cultivation, disinfected by the use of lime and other methods. When a herd has been vaccinated, corn should be withheld from their ration for one or two weeks. Green corn has a predisposing influence towards cholera. He thought successful vaccination depended as much on the manner of the use of serum as on the serum itself.

The second day had been reserved for a meeting of the National Association of Expert Swine Judges. None of the officers of this organization presented themselves. A committee, comprised of W. Z. Swallow and W. H. Pew, was appointed to take charge of the scoring exercises. A number of gentlemen scored a Poland China, a Berkshire, and a Duroc Jersey furnished by the college and a Chester White supplied by Barr & Rae, of Ames. The committee recommended that a certificate be issued to F. G. Paul, of Marshalltown, Iowa, on Poland Chinas.

On invitation of the college authorities it was unanimously voted that a special meeting of the Iowa Swine Breeders' Association would be held at Ames during the winter short course, and a particularly strong program will be arranged for that day. The object is not so much for the producers of pure-bred swine as to cultivate a more general interest in hog breeding on the part of farmers themselves.

If the corn cultivator shovels are to be sharpened and re-pointed this year let it be done early. Sharp, long pointed shovels are not the thing to use when the corn is large and the roots are long.

OUR FASHION-DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6156 Misses' and Small Women's Dress.—This pretty dress is made with a draped skirt. The closing is made at the left side of the front and the skirt is cut in two pieces. Cashmere, linen, pongee or ratine can be used to make this dress.

The pattern 6156 is cut in sizes 14 16 and 18 years. Medium size requires 4 yards of 36-inch material. Price of pattern ten cents.

6164 Children's Dress.—This pretty little dress is just the thing for a small child. It closes at the front. The shield is removable. The kilt plaited skirt is joined to the waist with a belt. Serge, cheviot or any of the wash materials can be used to make this dress.

The pattern 6164 is cut in sizes 2, 4 and 6 years. Medium size requires 2⅛ yards of 44-inch material and 2 yards of edging. Price of pattern ten cents.

6131 Ladies' Dress.—An excellent model for a one-piece dress is here given. This dress closes at the left side of the front, may be made with standing or rolling collar and with four-gored skirt, in empire or regulation waistline. The double row of buttons afford pretty trimming and the frock is chic and splendid looking.

The pattern 6131 is cut in sizes 34 to 42 inches bust measure. Medium size requires 5 yards of 36-inch material. Price of pattern ten cents.

6145 Boys' Suit.—Every small boy needs a play suit and here is an excellent pattern for making one. It can be made with either the round, square or standing collar. It can also be made with either the long or short sleeves. Linen or gingham can be used to make this suit.

The pattern 6145 is cut in sizes 2, 4 and 6 years. Medium size requires 2⅛ yards of 27-inch material. Price of pattern ten cents.

6140 Girls' Dress.—This dress closes at the front in Duchess style. The skirt is cut in two pieces and may be gathered and attached to the waist with a belt. Any of the wash materials can be used to make this dress with the collar, cuffs and belt of contrasting material.

The pattern 6140 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 2 yards of 44-inch material and ¾ yard of 27-inch contrasting goods. Price of pattern ten cents.

"RANGER" BICYCLES

Have *imported roller chains, sprockets and pedals; New Departure Coaster-Brakes and Hubs; Puncture Proof Tires; highest grade equipment* and many advanced features possessed by no other wheels. *Guaranteed for 5 years.*

FACTORY PRICES direct to you are less than others ask for cheap wheels. Other reliable models from $12 up. A few good second-hand machines $3 to $8.

10 DAYS' FREE TRIAL We ship on approval, *freight prepaid*, anywhere in U. S. *without a cent in advance.* DO NOT BUY a bicycle or a pair of tires from *anyone* at *any price* until you get our big new catalog and *special prices* and *a marvelous new offer.* A postal brings everything. *Write it now.*

TIRES Coaster-Brake Rear Wheels, lamps, parts and sundries *half usual prices.* Rider Agents everywhere are coining money selling our bicycles, tires and sundries. Write today.

MEAD CYCLE CO. DEPT. A 184 CHICAGO

Stud Anchor. For barns, corn cribs, garages, using **concrete** wall, pier or floor. No sills needed, nothing to rot. Studs bolted to foundation.

Stud Anchor Works, Mendota, Ill.

When writing to advertisers please mention The Homestead.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.
Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.

Holstein-Friesian Cattle.
Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Hereford Cattle.
Oct. 22, O. Harris & Sons, Harris, Mo.
Oct. 24, Leigh & George, Aurora, Ill.

Aberdeen Angus.
Oct. 8, Escher & Ryan, Botna, Iowa.

Percheron Horses.
Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Poland China Swine.
Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, Pfander & Sons, Clarinda, Ia.
Aug. 19, Alvin Windom, Nodaway, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, C. F. Adams, Owassa, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 14, Frank Roberts, Earlham, Iowa.
Oct. 14, R. R. Blake, Dallas Center, Ia.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 20, C. B. Powers, Aurora, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 24, R. R. Blake, Dallas Center, Ia.

Duroc Jersey Swine.
Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Hampshire Swine.
Oct. 14, Clayton Messenger, Keswick, Iowa.

Chester White Swine.
Oct. 14, M. W. Young, Ankeny, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Some very choice Scotch Collie pups are advertised for sale by Le Roy Brown, Lamoni, Iowa, on page 12.

Some good Duroc Jersey fall boars and sows are advertised for sale by L. L. De Young, Sheldon, Iowa, at $25 and $35. His advertisement appears on page 20.

C. W. Phillips, breeder of Poland Chinas, New Sharon, Iowa, announces his annual fall sale to take place October 8th. Mr. Phillips has at the head of his herd Long King's Superior, which he insists is one of the best Poland Chinas in the state of Iowa.

Twenty-five exceptionally good big-type Poland China brood sows, bred to Mouw's Big Sioux for fall litter, are advertised for sale by George Glynn, Sioux Rapids, Iowa, on page 19. These are splendid sows and splendid bargains. Send Mr. Glynn an order for some of these at once.

A. Latimer Wilson, importer, Creston, Iowa, writes that he has had a very successful year, selling 297 head of imported and home-bred registered horses and mares. Iowa took the most of any state in the Union, Utah, Idaho and Canada coming next. Mr. Wilson says he is well fixed for two and three-year-old colts and has a number of good imported horses for sale. His next importation will land September 1st. Write Mr. Wilson, Creston, Iowa, for particulars. See advertisement on page 21.

On page 12 of this issue of The Homestead appears the advertisement of Earl M. Filson, Birmingham, Iowa, in which he is offering full-blooded Scotch Collie puppies for sale. They are all well marked and from parents that are natural heelers. In color they are sable and white. They will be sold at reasonable prices.

J. P. Peterson, Herman, Neb., reports sixty good spring Duroc Jersey pigs on the farm, together with about twenty head of fall boars and sows. The fall stuff are sired by Big Jim and the spring pigs are by Jumbo U. S. and Col. Chief Jr. Mr. Peterson is expecting to make a fall sale if everything goes right and in that case will be heard from through these columns later in the season.

Kratzer Quality carriages are advertised on page 5. The special style of Kratzer carriage known as Majestic buggy No. 25 is a wonderfully attractive one. It is good all over. It is easy running, lasting, well painted and a fine looker. It is right in line with other styles made by the Kratzer Carriage Company. For the free catalog fillI out the coupon and address it to Kratzer Carriage Co., No. 4, Des Moines, Iowa.

The agricultural division of the Iowa State College, Ames, has among the other animals offered for sale, a splendid Aberdeen Angus bull calf just a year old that has the qualities of individuality and breeding which should satisfy critical breeders as well as farmers. The calf is a son of Vala's Rosegay, the well-known show bull, and the dam is a Pride cow and one of the best of the breed on the college farm. The price quoted on this bull makes him a most desirable bargain.

Conditions throughout a great deal of the territory in which this paper circulates enforce the need of some means of supplying water for stock permanently. There is perhaps no way by which such water can be furnished more cheaply than through the use of Fuller & Johnson's farm pump engine advertised on page 13. The manufacturers insist that for from fifteen to twenty-five cents a week this little engine can supply sufficient power to do all the pumping on the farm and besides that it may be applied to other work. No farmer can afford not to have the catalog which describes this engine. It may be secured by writing to Fuller & Johnson Mfg. Co., 6 Ironton St., Madison, Wis.

Carey Cameron, Herman, Neb., claims October 6th for a Short-horn sale and he expects to put up one of the best offerings that has ever come from his farm. We have seen a bunch of the heifers that he is listing for this sale and they are an exceptionally good lot and are both Scotch and Scotch topped. Carey Cameron is one of the breeders who has in a measure kept his light under a bushel, but when it comes to putting up good short-horn and good Durocs he can give most of the boys pointers. Quite a number of years ago he and John Skinner sold a draft offering of Short-horns at South Omaha and it was the best offering that has ever been sold at that point and the prices received indicated that the cattle were appreciated by the breeders throughout the central West. For the last few years Mr. Cameron has been making sales each fall and winter and the class of stock that he has sent out has made his name and his herds familiar to the breeders of Short-horns and Durocs throughout Iowa and Nebraska. He will have an offering of Short-horns and Durocs for this sale that will attract attention especially if the boys are wanting good things.

Goodenough's Hampshires.

A. L. Goodenough, Morrison, Ill., the well-known judge and breeder of Hampshire swine, has about 100 spring pigs largely sired by the prize-winning boar, Dudie. There are some extra good pigs to be found sired by this young boar and he bids fair to make a good record as a sire. No sale will be made this year and only the boar pigs will be offered the public at private treaty.

Poland China Boars for Sale.

Any of our readers who are going to want to buy a good boar will be interested in Mastodon Prospect, the boar that W. H. Barr & Son, Elliott, Iowa, are advertising for sale on page 19. He is bred right and is right and can be bought worth the money. They also offer some good fall boars for sale and some choice sows bred for fall litter. Write them at once and kindly mention The Homestead.

Simpson Ponies.

The Simpson Shetland ponies advertised on page 21 all made a remarkable list of winnings at the greater state fair shows last year, having captured about 80 per cent of all first prizes. The herd contains about 150 head of ponies and a fine string of them are now in preparation for the fall shows. The Simpson farm exported 100 head of ponies to England last year and is now fitting about sixty-five head more for the export trade.

Chief's Col. Bred Sows.

On page 21 the Economy Stock Farm, Shenandoah, Iowa, are advertising some splendid Duroc Jersey sows bred to the grand champion boar, Chief's Col., for September and October farrow. This is the first time that western breeders have ever had an opportunity to buy sows bred to this great boar and the wide-awake man will not overlook this opportunity to buy one of these sows. They have 200 head of spring pigs sired by Chief's Col., Highland Chief, Capt. Gano, and one litter by the noted boar, Cherry Chief, and they are now booking orders for boar pigs. They have a couple of yearling boars for sale that are very excellent and they will make splendid herd boars. One of these is a son of King The Cols., and is out of a Proud Chief dam and he will make any breeder a boar that he will be pleased to place at the head of his herd. Write the Economy Stock Farm, Shenandoah, Iowa, at once and tell them just what you are looking for and we are sure they can fill your order. When writing them kindly mention The Homestead.

Auto-Fedan Hay Press.

The president of the Auto-Fedan Hay Press Company claims that the Auto-Fedan means one less man. He says the reason for this economy of labor is that with an Auto-Fedan hay press two men can take more hay from the windrow and bale it than three men can do with any other make. The facts on which he bases this claim, together with full descriptions and special prices to advertisers of this paper, may be obtained by writing to the Auto-Fedan Hay Press Co., Kansas City, Mo. See advertisement on page 8.

Why No-Rim-Cut Tires Excel.

Goodyear No-Rim-Cut tires have the reputation of having superior lasting qualities and other advantages which make them general favorites among automobile owners. The advertisement on page 6 gives some of the reasons for the excellences referred to. The Goodyear is made by a secret process, reinforced by materials having great wearing qualities and made on plans that cannot be improved upon. The Goodyear Tire Book tell other features in detail. Write for it. Address Goodyear Tire & Rubber Co., Akron, Ohio.

Moulton's Durocs.

C. A. Moulton, Morrison, Ill., has 110 spring pigs that are very promising. Their is one litter sired by S. E.'s Premier Col., one by Captain Model, one by Golden Model 31st and the balance by Success, a good young boar bred by S. E. Eakle and sired by S. E.'s Premier Col., dam the great breeding sow, Pride of Sunnie Side by Chief's Col., second dam Helen's Duchess by Ohio Chief. These pigs are out of sows by Browning Boy, a grandson of Chief's Col., S. E.'s Premier Col., Manley, a grandson of Junior Jim, Model Chief's Last and others. A littel later we will have more to say of this herd.

Beckendorf's Hampshires.

One of the breeders of Hampshires that expects to be at Des Moines this fall with some good things is J. E. Beckendorf, Walnut, Iowa. He has some nice spring pigs, but not quite as many as usual, but those he has are all right. They are sired by his well-known boar Lad For Me and Compeer of Walnut. He has a splendid lineup of sows and he will have some of the best of these with him at the fairs this fall. Those of our readers who are interested in Hampshires should make it a point to see the Beckendorf Hampshires when they go to the state fair.

Meinhold Sells Big Jumbo.

H. C. Meinhold, Stromsburg, Neb., reports the sale through The Homestead of his herd boar, Big Jumbo, to C. A. Church, Columbus, Neb. Mr. Meinhold is now offering spring boars and gilts sired by Big Jumbo, Pud's Wonder by A Wonder, Nelson Tecumseh, O'Connell's Wonder and a few other big sires. These are big hogs well bred and will be sold at farmers' prices. Mr. Meinhold has recently put into his herd a new boar called King Wonder by Nebraska Wonder by A Wonder. This is the making of a big boar and has a lot of quality. Readers of The Homestead will do well to write Mr. Meinhold for prices on the stock he is now offering. Mention this paper when you write. See advertisement on page 19.

Kreitzberg's Durocs.

The other day we called on Lewis Kreitzberg, Griswold, Iowa, and found him with forty head of spring pigs and while his crop is not large, they make up in quality for what he lacks in numbers. He has twelve fall boars on the place and they were all that could be desired. Both his spring and his fall stuff are good and no one need hesitate on sending him an order and be sure in getting a good boar. He will sell these fall boars at any time and they are sired by Freed's Improver and a son of Latter Lafollette. He wants to dispose of these fall boars and he will be pleased to hear from anybody wanting one, or he will be glad to show them to anyone who will call and see them. He has four good litters by Lewis' Crimson Wonder and one good litter by C. H.'s Special. He is only asking from $35 to $40 for these fall boars, and he hopes to dispose of them as soon as possible. No one will go wrong in ordering one of these boars of Mr. Kreitzberg.

Cedar Hill Farm Short-horns.

Irvin E. Wilson, proprietor of Cedar Hill Farm, Belvidere, Neb., is offering for quick sale a few young bulls of serviceable ages, also a pure Scotch bull that has been used some. The young bulls are sired by Secret Hero, a 2,200-pound Scotch bull that was selected on account of the splendid showing his family has made as milkers and he was introduced into one of the best milking herds of real, big, smooth, Short-horns that was to be found anywhere in the West. Mr. Wilson has made a special effort to maintain size, feeding quality and milking quality at all times and he has succeeded to a great degree. The young bulls he is offering are of this sort, and they are just now ready to go out and do good service. The older bull offered is being sold for no fault, is a nice handler, comes of big stock and is being priced worth the money. He is a bull that can go out and serve from fifty to sixty cows this season. He is just right in his prime, and has never been overused, although before Mr. Wilson got him he has seen some short feed. It has cut him in size probably 100 pounds, but his breeding ability has only been made greater thereby. Bulls that are continually kept on heavy feeds, quite often do no breed well, for the reason that they develop the tendency to lay on fat instead of developing their reproductive organs. Carried to excess, heavy feeding will completely ruin a bull. The bulls Mr. Wilson offers are right in every way, in fact, everything that leaves this farm are right, or they do not leave it as breeders. The writer is well acquainted with Mr Wilson and we recommend him and his stock. Mention The Homestead and write at once.

Messer's Angus Bulls.

Bargains in Aberdeen Angus bulls are offered by A. O. Messer, Grundy Center, Iowa, on page 18. Oakfield Earl 138858 is a tried herd bull that has proven a good breeder. This bull is a Trojan Erica and is a grandson of Earl Eric of Ballindalloch. Here is a herd bull proposition. There is a May yearling Trojan Erica bull by Erica 2d 163549, dam by Blackbird Jack 129823. This calf is smooth, has good head, is well proportioned and has a fine disposition. There is also a December yearling E. T. Duchess bull that should sire a high-class lot of steers for someone. Mr. Messer has another good yearling bull. If any of our readers want a good bull it will pay them to see these before buying. The prices range from $90 to $175. Mention The Homestead when writing.

Dunbar's Chester Whites.

That well-known breeder and showman, W. H. Dunbar, Jefferson, Iowa, has 100 head of Chester White spring pigs this year and they are early and good, and he is going to be strictly in the swim when it comes to filling orders the coming season. These are sired by Iowa Challenger, Combination 2d and Longfellow. Mr. Dunbar is going to be at the Iowa State Fair with a strong lineup, and he will have some good things that will make the boys go some if nothing happens. For the past several years the Dunbar herd has been shown at the Iowa State Fair, the Intertate Fair at Sioux City, at Hamlin and the Dakota State Fair and he always has had his share of the ribbons, and this speaks well for the kind of Chester Whites he is breeding. He has bred a lot of good stock and the hogs that he has sent out from his herd have invariably done well for the men who bought them. Those of our readers who are going to want a Chester White boar or a few good sows will not make any mistake if they will only call and inspect the Dunbar herd. If you cannot do this then make it a point to meet him at the fairs this fall.

Billie McFarland's Hampshires.

Farming a section of land, looking after a big herd of Hampshires, and taking personal charge of a large horse buying and breeding establishment in town keeps Billie McFarland, Syracuse, Neb., pretty busy. The herd of Hampshires is generally regarded as the second largest in the state, and comprises about 150 head. The past winter a number of sows were purchased and placed in the herd, but they failed by quite a little to come up to standard of the former herd. Mr. McFarland knows the hog business and he certainly knows a good Hampshire, and, as he is a good caretaker, he is pretty sure to have a lot of good stuff on the farm. One of the best boars in the country is in use here and he is Zehr's Perfection by Gen. Wasser by Col. Wasser. The dam of Zehr's Perfection is Mary W. by Major Watson. This boar is sure of the big type and, in fact, that is the type that Mr. McFarland is breeding, and those looking for bigger Hampshires will be able to get them from this old reliable stock. Mention The Homestead when you write, and if interested in getting good boars or any breeding stock, apply at once. See advertisement on page 18.

Zellmer's Durocs.

On October 4th, C. A. Zellmer, Atlantic, Iowa, will make his first public sale of Duroc Jerseys and he expects to have an offering that will interest the breeders and farmers of western Iowa. He now has seventy head of spring and fall pigs on the place and from these and a few good sows that he expects to catalog will make up his offering. The fall stuff are all sired by King Carlos a son of Don Carlos, and he was a son of old Ohio Chief. His present boar is Cedar Grove Chief, a grandson of H. A.'s Choice Goods, and out of a dam by Zeek, a son of Proud Advance that Len Roberts formerly owned and used in his herd. This hog was first prize and champion boar at the Cass county fair in 1912 and he has been a good breeding boar in his herd. Many of the very best spring pigs he has are sired by him. Some of his best pigs are out of Queen Ruby, a granddaughter of S. J.'s Buddy K., and his best fall boars are out of Cedar Grove Lass, a daughter of Golden Model Again. Another splendid litter is out of a sow called Daisy by King Commodore. Later in the season we will have more to say of the Zellmer Durocs and remember he will make a sale at Atlantic on October 4th.

Andy Joy's Poland Chinas.

Among the many younger breeders of Poland Chinas in Nebraska that have been pushing rapidly to the front as pastmaster in the art of feeding and producing good things is Andy Joy, Herman, and while he has not an overly large number of pigs this year, what he has are very good. He owns that splendid young boar, Half Ton Wonder, and he is one of the splendid boars today in the state of the large-type kind. In fact, this boar is a better hog today than ever before and he is coming along in fine shape. Mr. Joy has forty spring pigs, and they are good enough to show anybody. One of his best litters is sired by a son of Half Ton Wonder and they are out of a dam by Uwanta Hadley, a boar that he formerly used in the herd. This is a most excellent litter and they will be right for his sale the coming fall. Another good litter is sired by Henry's Expansion, a son of Dorr's Expansion, and there are six

good pigs in this litter. He also has a good litter by Hadley Golddust and a litter by Lingford's Jumbo. They are growthy, well fed and well kent and are looking fine, and if he doesn't have something the breeders will want this fall then we are mistaken. Few of the more noted breeders can show you a better bunch of pigs than you will see on his farm.

Elmer E. Thompson & Son's Durocs.

One of the best lots of spring pigs for the number that we have seen this season we saw recently on the farm of Elmer E. Thompson & Son, Indianola, Neb. These gentlemen have an ideal place to grow hogs, started with the right sort and have given them good care, hence they have good ones to offer. The good stockman will be quick to appreciate the extra value that he can get by buying of a firm of this kind and where such breeding and development may be had. The greater part of the spring crop of pigs are sired by Iowa King by Byrd's Wonder by C. W. Again. Byrd's Wonder was one of the good ones out of one of the best litters ever sired by Crimson Wonder Again and the dam was the world's famous producing sow, H. A.'s Queen. The dam of Iowa King is Ohio Lady by Iowa Chief. The pigs are out of sows by such noted sires as Echo Wilkes, by the way, one of the very best breeding boars in Nebraska today, Crimson of Crimson Wonder, Valley Critic 2d, and a few others. Messrs. Thompson will sell this stock at private sale, and are now shipping boars. Those that live long distances should order at once, as they will be assured of a good selection and save considerable on express. Do not wait, but write today, and when doing so kindly mention The Homestead.

Maple Glen Galloways.

A recent visit to the Maple Glen herd of Galloway cattle owned by James P. Milliken, Media, Ill., showed a lot of unusually good young things coming on. Mr. Milliken is a breeder with very practical ideas, with a definite type in mind and has achieved most satisfactory results in breeding for that type. The Maple Glen herd is very strong in the blood of the best strains known to the Galloway breed. For several years it was headed by Imp. McDougal 4th of Tarbreoch, one of the strongest show and breeding bulls the breed has ever produced. At present the herd bulls are Dauntless of Maple Glen, by McDougal 4th; Worthy of Maple Glen, by Tarbreoch Earl, and Netty's Follower, by Imp. Campfollower of Stepford, one of the highest-priced and most prepotent Galloway bulls ever imported to this country. The breeding matrons in this herd are an outstanding lot, and among the young bulls and heifers will be found some of the most attractive prospostions offered by any Galloway breeder. Mr. Milliken has some exceedingly good young bulls for sale and can fill any kind of an order in the female line. His cattle are handled under conditions that tend to future usefulness, and any of our readers with wants in the Galloway line can find what they need in the Maple Glen herd.

Francisco's Poland Chinas.

The writer visited C. W. Francisco, Inland, Neb., a short time ago and we wish to say that we found a nice lineup of Poland Chinas on the farm. Mr. Francisco has been breeding the big Nebraska-type stuff for several years, but he has the best crop this season that he has had for some time. The pigs are for the greater part the get of Young Combination by L. F. Reilly's well-known boar, Combination by Blue Valley Quality. Great Victor, a son of Big Victor and one of the very best that we ever saw sired by that boar was in use in this herd last year, but Mr. Francisco had the misfortune to lose him. His get are not plentiful on the farm for the reason that but few fall pigs were raised and the spring crop a year ago were nearly all lost with disease last fall. Every herd sow and boar on the farm have now passed through the diseases and are regarded by Mr. Francisco as being immune. Some of the best fall boars that we have seen are on this farm. Earlier in the season the writer hought one of these boars the best he had seen in a long time, but the others of the litter are gaining on him now. He is quite a good pig for all that, and we trust will be taken to the state fair this fall. Mr. Francisco will make a public sale this fall, October 21st being the date, and at that time will put up an offering that all Poland China men of the territory should try and attend.

Herd-Heading Scotch Bulls.

Readers of The Homestead in search of some really high-class Scotch bulls should not overlook those that are being offered by K. F. Dietsch, Orleans, Neb. Mr. Dietsch has two that are of serviceable ages and they are of the very best of blood lines. One is a rich roan, an extra choice individual, and is sired by Scotch Lad. His dam is Victor's Secret by Prince Victor; second dam is Secret of Hill Farm 3d by Imp. Merry Hampton, and then comes Imp. Sunbeam by the great bull, Royal Violet. There is a lot we could say about this pedigree, nothing better anywhere, but the bull's individuality is all that would be necessary to convince most stockmen of his value. The other bull is also a pleasing individual, a real good one and he is a red. He is also sired by Scotch Lad and out of Queen Clemency of Scottish Champion. The next dam is Queen Malaka by Scottish Champion and traces to Imp. Queen Clementina by the greatest bull of his time, Cruickshank's noted Gravesend. Mr. Dietsch is asking but a part of what these bulls are worth, or what they would bring in any advertised auction today. These are the class of bulls that breeders furnish competition on up to the four-figure mark, and they would still be worth the money. Someone is going to buy these bulls and do it mighty quick when they see them once. The writer has seen them, and recommends them to breeders looking for something good and well worth the money. Homestead readers will be perfectly safe in dealing with Mr. Dietsch by mail, but whether dealing by mail or in person, we would suggest that you act quick.

The Champion Silo.

The advertisement on page 24 of this issue ought to appeal to every man who grows a bushel of corn. The Western Silo Company, Des Moines, Iowa, has made a remarkable record with their Champion silo. This is due to many causes. In the first place, the care taken in the selection of wood for the Champion silo means that it will be long lived. The inside hoops and the base anchors used in the construction of the Champion silo add immensely to its strength while the solid steel bars welded at the top and looped into U bolts simply mean defiance of wind and weather. The doors of the Champion silo are of solid California redwood and they are continuously trussed and braced with special angle and channel steel. It costs money to saturate staves with oil, but the Western Silo Company goes to the expense of oil filling their staves under the most approved methods. The Champion silo has a remarkable record behind it and one that will be maintained at all hazards in the future. Homestead readers who are desirous of obtaining special information in regard to this type of silo should fill out the coupon found in the corner of the advertisement and mail it to the Western Silo Company, 100 Eleventh St., Des Moines, Iowa.

A. T. Cross' Duroc Herd.

One of the largest herds of Durocs in Nebraska is the herd owned by A. T. Cross, Guide Rock. The spring pig crop numbers well over 200 head and they are a good thrifty lot. The Cross herd is one that is well and favorable known over a large territory, and the stock sent out from this herd the past few years has had a marked influence for good in many herds. One of the greatest herd boar sires of the state is in service here. He is Prince Wonder 2d by Old Prince Wonder, and as a sire of herd-heading boars he has a record not yet surpassed by any boars of his age in the country. Something like twenty-five good herds in southern Nebraska and northern Kansas are using boars sired by Prince Wonder 2d and they are giving excellent results. Col. C. by G. C.'s Col., is a boar that has done much good in this herd, and many of the best sows on the farm, and in many other herds are sired by this boar. A son of Hammond's famous boar, Tattarax, is in use and is siring a good line of stuff, especially on Prince Wonder sows. Tattarax bred a short type of stuff, but when mated with Prince Wonder who is extra long, a fine lot of stuff is the result. Mr. Cross will hold a sale on October 30th and at that time will offer a choice lot of boars and a few gilts. As he will have such a big number to select from, a number will also be sold privately.

W. H. Diegan's Poland Chinas.

A gentleman that has bred a lot of the good boars of the country and who seems in better shape right now to satisfy those looking for that kind of stock than ever before, is W. H. Diegan, Raymond, Neb. It is from this herd that Thos. A. Shattuck's famous Sampson was drawn, also his brother, Herod and still others that are doing good work in other noted herds. To have produced so good a breeding boar as Sampson is honor enough for most men, but the others only emphasize the value of the breeding stock kept on this place. Jumbo Jr. was a boar that was used in this herd with much success, siring Sampson and several others of the big breeding, heavy-boned kind. He was bought in the Wintermute sale of several years ago, and the influence of the Wintermute stuff on the big hogs of Nebraska has been highly beneficial and far reaching. A few litters from choice sows selected at the Peter Mouw sale last winter are doing well. They get good care on the Diegan farm, and as they come of the very best of the Mouw stock they should make some valuable breeding stock for the western stockmen. Early spring boars are now ready for shipment, and we want to say that in this herd are boars that Homestead readers would buy at first sight, if they would but take the time to go and see them. We would suggest writing Mr. Diegan at once for prices and full description of this stock and we fully believe that early selection will be made at much lower prices than the same quality will cost a little later. If the opportunity to see this stock is not presented earlier, make it a point to see them at the Nebraska State Fair.

Holly Williamson's Polands.

The other day we called upon H. O. Williamson, Herman, Neb., who is regarded as one of the most enthusiastic and one of the very best breeders of Poland Chinas in eastern Nebraska and we found him with the best crop of spring pigs that we have ever seen on his place at this season of the year. We are not saying this to please Mr. Williamson, nor are we saying this to deceive breeders, but he has the goods and if you don't believe it go and see him yourself. He will have a great lineup for the boys this fall. The spring litters are sired by Great Mastiff, Henry's Expansion, Hadley Golddust, Big Tecumseh, Revenue Exception and Black Prince. He has a splendid boar that he is now using in Giant Wonder, a son of Big Wonder (who in turn was a son of that 900-pound sow, Lady Wonder 6th) and his dam is Molly King by old Long King and out of a Giantess sow. He has big-type breeding to a fare-you-well in this hog and when he gets him grown out he will be as large as any of them. He has a full sister to this boar on the place and she is as good as the boar and he is going to put her in his fall sale as a special attraction. Those who are going to want something large should remember this sow as one of the choicest things that will be sold this fall. He has a September boar called Mastiff Look sired by Great Mastiff that he is carrying in good shape for the fair and he will sell him should he get what he thinks he is worth and another good October boar also. He has some good fall sows, three of which are out of old Peaches and Cream, one of the very best sows he has in the herd, and these are sired by Big Wonder. Two other good fall sows are granddaughters of the 900-pound sow, Lady Wonder 6th. He has two good litters by Spot's Best and these are out of daughters of Wade's Juhbo. Spot's Best is a son of Long Chief Jr., one of the best boars ever owned by Tom Miller. Mr. Williamson will make a sale on November 5th, when he will put in some of the best boars and sows that he has ever listed for a public sale and later in the season we will tell you more about them.

H. Smith & Son's Durocs and Shorthorns.

The writer recently called on H. Smith & Son, Tobias, Neb., and is glad to report that these gentlemen have a fine crop of pigs numbering near 100. They are a growthy lot, many being the last of February and the first of March and have done well. They are principally the get of Model Chief 10th by Model Chief 8th. Model Chief 10th was the fourth or fifth pripe boar at the Nebraska State Fair last year and is a litter mate to the first-prize junior yearling sow at the Nebraska State Fair two years ago. The sow was Model Lassie, one of the best shown at Nebraska for a good while, and afterwards topped the Con McCarty bred sow sale. Model Chief 10th is a good breeder and is a good show proposition as well. He is very smooth, has an extra good head and ear, and in fact is very good in most parts. He will probably be shown again this season and is a much better prospect than a year ago. He is better fitted at this time than a year ago, and we believe that he will land up pretty well in the money. Smith & Son have a young boar sired by Model Chief 10th, a June boar, that will be in the junior yearling class. He is not as good a proposition as the old boar, but is a mighty well-bred fellow, being out of a Crimson Wonder Again sow. These gentlemen have a junior yearling sow, however, that is the real thing. She is by Select Chief and out of a C. W. Again sow, and she is just mighty hard to fault. It will take a good sow to stand above her. If all goes well with her, she will be one that will be looked for this fall. The Short-horn herd is coming in fine shape, everything doing well. The calves are all by Roan Cumberland, a son of Cumberland's Last, and he is a sire of the right sort. The cow herd is strong in the blood of the great Gold Dust and the cross is a good one. Some good bulls will be for sale a little later, in fact, would be sold now, but they will not do to use till late in the season. Keep these herds in mind, and remember that a brood sow sale will be held in the winter, and probably a boar sale this fall. Should you write, mention this paper.

Eakle's Durocs.

A representative of The Homestead recently visited the farm of S. E. Eakle & Sons, Prophetstown, Ill., and found the best lot of pigs that we have ever seen on the Eakle farm. They have 120 spring pigs and they are surely a good bunch. There is an extra good litter by Cherry Chief, out of a Proud Col. sow, a dandy litter of six by Volunteer and out of a litter sister to Lucky Wonder 112, a litter by C. E. Veak's High Col., some extra good pigs by Captain Model, a full brother to Golden Model II and the balance of the pigs are by the two famous boars, S. E.'s Premier Col. and S. E.'s Defender, two boars that have been used very successfully in this herd. S. E.'s Premier Col. is a son of Premier Col. and out of an Orion Chief sow. He is a large boar with quality and has lots of action. You can pick his pigs as they have the type, style, action and good feet of their sire. S. E.'s Defender 117385 was sold to H. E. Browning to head his noted herd and has since been recorded in the American Association as Disturber. He is sired by Defender and out of Lucy Wonder 112 by Chief's Col. Lucy Wonder 112 is in the Eakle herd and always raises a great litter. She now has a fine litter by S. E.'s Premier Col. The Disturber pigs are looking fine. We saw the fourteen sows that raised the pigs on the farm and they are a good lot. Many of these sows have been kept for three to five years and if they were not raising good pigs they would not be kept that long. There are some fine litters by S. E.'s Premier Col. out of sows by Golden Model, Defender and S. E.'s Top Col. There is no herd in America that is more choicely bred than this. Several sows by Model Chief, Chief's Col., Defender, Ohio Chief, Chief Select are the ones that raise these good pigs. Messrs. Eakle have sixteen fall boars for sale sired by Disturber, S. E.'s Premier Col. and Captain Model. A good yearling boar by Crimson Wonder I Am, dam by Ohio Chief is priced at $50. The Red Polls are coming along in nice shape. A good fourteen months bull by King George and out of Eva 3d and a few heifers will be sold. This spring Mr. Eakle purchased Krussard, a great three-year-old Percheron stallion, sired by celebrated Champion Carnot. If interested in good Durocs or Red Polled cattle see page 18 and write your wants mentioning The Homestead.

We show herewith a kodak picture of a group of the real big Poland China prospects taken on the Oscar Warp farm at Minden. This picture was taken May 5th. Warp Bros. have one of the very best big-type herds in Nebraska. They will have herd-heading boars for sale a little later. Should you write them, mention The Homestead.

TOO LATE TO CLASSIFY.

OLD-FASHIONED SPOTTED POLAND CHINAS SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality. **J. D. Gates & Sons, Ravenwood, Mo.**

50 HEAD HEREFORD BULLS FOR SALE 50

WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.
A. SPOONER & SON, - - MONDAMIN, IOWA

DUROCS ARE POPULAR

BECAUSE they are the Profit Producers. Start right by buying a few choicely bred gilts. For further information apply to
B. W. LITTLE - JANESVILLE, WIS.

THE BEST IN DUROCS

WE have 15 fall boars sired by Disturber (H. E. Browning's great boar), S.E.'s Premier Col. and Captain Model: 60 March boar pigs sired by Disturber, S.E.'s Premier Col., Cherry Chief, High Col., Volunteer and Captain Model. Best lot of pigs ever on farm. If you want a boar write me. 14-months Red Polled Bull for sale. Mention Homestead when writing.
S. E. Eakle & Sons - Prophetstown, Ill.

ANGUS BULLS

ONE 3-year-old TrojanErica, a grandson of Earl Eric of Ballindalloch and a good one. One Trojan Erica calved May, 1912 and 2 other bulls just right to do good work in some steer breeding herd.
A. G. MESSER, GRUNDY CENTER, IOWA.

Cedar Hill Short-horns

SOME excellent young bulls, sired by the 2,200 lb. Secret Hero, also a pure Scotch tried bull. Prices low for quality offered. We maintain milk records on many of our cows. Mention The Homestead.
IRVIN E. WILSON, BELVIDERE, NEB.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
Billie McFarland - - - Syracuse, Neb.

POLAND CHINA SWINE.

COOPER'S BIG-TYPE POLAND CHINAS. Guaranteed Cholera Immune

100 HEAD of pigs of spring farrow for sale, either sex, can furnish boars and gilts unrelated. These pigs are from sows weighing from 500 lbs. yearlings up to sows of over 800 lbs. in weight, representing the biggest blood lines and the most noted families of the breed. They are sired by Big Expansion, the 800-lb. 2-year-old son of the noted Dorr's Expansion; Big Bone 2d, weighing 900 actual pounds, and a son of the great Big Bone, Chief Leader, an outstanding 14-months-old boar weighing 500 lbs. today, and other boars of same likeness. These pigs will be ready to deliver beginning in June. They are from immune sires and dams and have received the double treatment. We will guarantee them cholera immune at

$35.00 EACH OR THREE FOR $100.00.

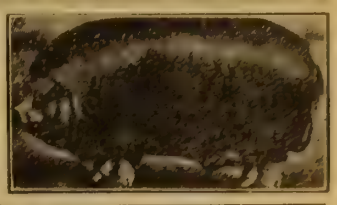
We will refund your money if they die from cholera. We guarantee them to be breeders; we guarantee safe delivery and record everything; have orders booked now from 9 states. If you want the biggest of the breed send us your order. We guarantee satisfaction.

W. H. COOPER - - - - - - - - - - HEDRICK, IOWA.

BIG BONE 2d 16167.

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25** to **$35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**



Walnut Creek Poland China Herd.

A representative of this paper last week called on R. R. Blake, proprietor of the Walnut Creek herd of Poland China hogs near Dallas Center, Iowa. Mr. Blake has expended both time and capital in his endeavors to establish a herd of Poland China hogs which will contain those having the individuality to attract the attention of buyers who are looking for Poland Chinas with size and that carry the strains of the larger sorts. A specimen of the good animals of the herd is a two-year-old sow by Tecumseh Longfellow that is a very close approach to the best Poland China type obtainable. She is very large, of the wide, deep-bodied sort, with an excellent arched back that is wide from end to end, perfect at loin and over the heart. She has good feet and a head and ears which, added to her other good qualities, would make her a money winner in any state fair ring. Her smoothness and finish are as good as ever got into the ring. This sow is and has been an excellent breeder. She has this season a litter of early pigs that are highly creditable and a bunch of last fall pigs that will probably make their appearance at the state fair. The herd has in service the hogs Smooth Wonder Again, L.'s Big Bone and Long King Again. The first named is a son of Hancher's Smooth Wonder 2d. He is a boar of remarkable scale and thickness and is perhaps numbered among the very best grandsons of the noted A Wonder. L.'s Big Bone represents another tribe of big ones. He is also a grandson of A Wonder. His sire was Gallman's Big Bone and his dam a granddaughter of Big Nelson and Good Shine, both of which in good herds represented the biggest sorts. Long King Again is by Long King. He lacks perhaps the scale of the other hogs in the herd, but his active temperament prevents his putting on fat. He has the frame and bone to carry it, but, as a speaker at the Iowa Swine Breeders' Association used to say of the Berkshires, "If he is not going some he is coming back." As a consequence, his appearance lacks the attractiveness of the more quiet fellows. The herd now numbers something like 250 head, a large portion of which are in training for public sale announced for October 19th, concerning which additional facts will be given in later issues of this paper.

Sharp's Hampshires and Red Polls.

Mike Sharp & Sons, Coal Valley, Ill., are known throughout the entire corn belt as breeders of Hampshire swine and Red Polled cattle of the highest type. Mike Sharp, the senior member of the firm, is a natural born stockman and when it comes to his ability as a judge of his particular breeds he has few equals. His success has been largely due to his good judgment. You never see a breeding animal kept in the Sharp herd unless it has a strong constitution. It must have the spring of fore rib and the fore flank well filled out. This firm have for sale a yearling boar that was second in the under six months' class at the Illinois State Fair last year. He is sired by Mike, a good boar formely used in the herd and out of Annie Lee, the sow that produced the cup winners at the Iowa State Fair, 1910. This boar is a strong, good-footed boar that will make a good show. There are six fall yearling boars sired by Clare's Duke and Wonderful Prophet that are extra good ones. All have good feet and backs and strong constitutions. The man who wants a Hampshire herd boar should not miss seeing what Messrs. Sharp have before buying. They also have a fine lot of spring pigs that look the winners. These gentlemen are not going to show this year and will sell any of this show stuff. It is a good place for some showman to fill his herd with winners. Cherokee is a two-year-old boar that if shown would be a hard one for the best of them to step around. He has a strong back, good head and ear, excellent feet and legs and has the thickness and depth that all breeders like. A few Red Polled heifers and a few February and March bull calves will be sold. You can find Red Polls here as good as grow. See page 20 and write these gentlemen your wants mentioning The Homestead.

F. H. Allen's Durocs.

While at Tobias, Neb., a few days ago the writer visited F. H. Allen of that place and made it a point to see the Duroc Jersey young herd that Mr. Allen has. It sort of seems to run in the family of the Allens to have good Durocs, for the Mr. Allen of whom we speak now is a brother of H. S. Allen, Russell, Iowa. The winnings of Allen-bred Durocs is a long list, and will in all probability be added to again this season, as we saw some very good ones on this visit. A young herd, under year stuff, sired by Crimson Wonder Again and out of the sow that produced the first prize under year herd last year, look good. They are sure of a kind, and the right kind at that. The writer is particularly pleased with two of the gilts and the boar, but they are all very uniform. Mr. Allen is in the mercantile business in Tobias, operating the largest store in the city, and only raises a limited number of Durocs, but they are the kind that please the eye and bring the cash when for sale. When at the state fair this fall, look for this exhibit.

Chicago Combination Angus Sale.

Despite the fact that it is a busy time for farmers, there was a good attendance at the combination sale of Aberdeen Angus cattle held at Chicago, June 18th, under the management of M. A. Judy, and while the average of the sale was not high, yet the fact that the majority of the consignees had in cattle that were too young and in too poor condition to sell is responsible for the average. It seems strange that breeders cannot or will not recognize the fact that sending forward of young and undersirable animals to a public sale is more of a direct loss to them than to anybody else, and a detriment to the breed as a whole. The cattle in condition for a sale at the Chicago vendue brought good prices, and the others sold for every dollar they were worth. The outcome of the sale demonstrated the good demand for cattle, the bull enquiry being especially good, and buyers were on hand from Nebraska, Iowa, Illinois, Indiana and Ohio. The consignors to the sale were: E. S. Lantz, Congerville, Ill.; John S. Goodwin, Chicago, Ill.; Stanley R. Pierce, Creston, Ill.; Chas. R. Coleman & Son, Wayne, Ill.; A. C. Binnie & Son, Alta, Iowa; J. O. Gring, Dallas Center, Iowa; Chas. Herendeen, Crystal Lake, Ill. Mr. Judy managed the sale in his usual satisfactory manner and Col. Silas Igo did a good day's work in the auctioneer's block. The following is a list of all cattle selling for $100 and over:

FEMALES.

Blackcap of Alta 5th, calved 1911; John E. Griffith, Washington, Iowa	$170
Blackbird of Inverness, calved 1905, and b. c.; John D. Evans, Sugar Grove, Ill.	115
Blackbird of Alta 5th, calved 1907; A. J. Brock, Waynesville, Ill.	180
Blackbird Lassie of Alta 16th, calved 1910, and c. c.; Chas. R. Coleman & Sons, Wayne, Ill.	135
Blackbird Lassie of Alta 19th, calved 1911; Judge Harry Olson, Chicago, Ill.	110
Esmeralda 6th, calved 1909, and c. c.; Jas. Stewart, Chicago, Ill.	100
Krista Klo, calved 1911; John E. Griffith	115
Abbess McHenry 6th, calved 1904; John D. Evans	205
Abbess of Alta, calved 1909; Judge Harry Olson	135
Crystal Belle Pride, calved 1912; F. L. Brumback, Cissna Park, Ill.	100
Pride of Aberdeen 153d, calved 1909; Judge Harry Olson	150
Erica Glen, calved 1906; John D. Evans	170
Blackcap 32d, calved 1908; John S. Goodwin, Chicago, Ill.	320
Black Gem of Keillor Park, calved 1902; John D. Evans	255
Blackcap Ito, calved 1905; Chas. R. Coleman & Sons	195
Blackbird Lassie, calved 1906; Chas. R. Coleman & Sons	200
Black Queen of Westlawn, calved 1902, and b. c.; Chas. R. Coleman & Sons	125
Imp. Pride of Hope 2d, calved 1908; Chas. R. Coleman & Sons	125
Pride of Pinegrove, calved 1906; John R. Goodwin	200
Pride of Clover Leaf 2d, calved 1906; Chas. R. Coleman & Sons	155
Edgewood Heroine, calved 1904; John Lewis, Rochelle, Ill.	100

BULLS.

Black Mark 2d, calved 1913; M. D. Korns, Hartwick, Iowa	210
Blackcap Dell, calved 1912; John E. Griffith	150
King Tom, calved 1911; Carpenter & Son, New Castle, Ind.	160
Quowarranto, calved 1905; O. T. Hunt, Crab Orchard, Neb.	160
Black Wayne, calved 1910; Sinclair & Wire, Winslow, Ill.	170
Khartoum of Crystal Lake, calved 1912; J. L. Zollinger, Thornville, Ohio	130
Khartoum of Crystal Lake 24th, calved 1912; S. Melvin, Greenfield, Ill.	125
Abstractor, calved 1912; P. F. Baker, Greensburg, Ind.	200
Questman Klo, calved 1912; Wm. Hoxie, Linn Grove, Iowa	200
Eraman, calved 1912; John E. Griffith	300
Blackwood 2d, calved 1912; Frank Mannquist, Verona, Ill.	105

SUMMARY.

26 females	$3,730; average	$143
18 bulls	2,510; average	140
44 cattle	6,240; average	142

C. F. Adams' Big-Type Poland Chinas

I WILL sell spring pigs sired by my great herd boars, **Big Halvor** (generally conceded to be one of the very best big-type boars in Iowa), **Maid's Halvor 1st,** a son of **Big Halvor** and out of the mammoth sow, **Long Maid,** and one of the grand young boars of the breed, **Mammoth Jumbo,** a son of the noted **Big Jumbo** and **Grand Chief,** bred by John Miller. These pigs are out of a herd of

Sows That Cannot Be Surpassed for Size and Quality

These sows are bred in the purple, many of them being sired by the great sire, **Big Halvor,** others by **Coming Wonder, Big Nelson,** etc. I know I can please you in a pig and that you will be more than pleased with the manner in which they develop. These pigs will be worth three and four times what I am asking for them within the next year. Write me for prices, mentioning Homestead

C. F. ADAMS - - - - - - - - - - - - - - - - - - OWASA, IOWA.

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

J. D. GATES & SONS - - - - - - - RAVENWOOD, MO.

25--Big-Type Poland China Sows For Sale--25

These are all strong in the blood of the strictly big kind and are bred to the 900-lb. Mouw's Big Sioux for fall litters. I am also offering to sell my splendid 2-year-old boar, Smooth Jumbo. Write me at once and mention The Iowa Homestead. Address - - - **GEORGE GLYNN, Sioux Rapids, Iowa.**

AUGUST GORDER'S POLAND CHINAS

A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.

AUGUST GORDER, PLATTSMOUTH, NEB.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

FAULKNER'S SPOTTED POLANDS

THE old original big-boned spotted kind. Now booking orders for spring pigs to be shipped when weaned. Pairs or trios, no kin. Everything Registered. For the kind of our forefathers address

Homer L. Faulkner, Box 117, Jamesport, Mo.

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to H.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

L. S. Fisher & Son, R. 1, Edgewood Iowa.

BIG-TYPE POLANDS

OF the thick, smooth, heavy-boned kind. Fall and spring boars and gilts sired by Dale Expansion 190135. Also choice sows bred to him for fall litters.

F. E. JACKSON, HURLEY, SO. DAKOTA.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 250 to 275 pounds. I have spring pigs weighing 75 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment.

JOHN I. DRIPPS - - SPRINGVILLE, IA.

Mastodon Wonder For Sale!

WE are offering this great Poland China yearling for sale, also 7 fall boars and some choice sows bred for fall farrow. Write us at once. Address

W. H. BARR & SON - - - Elliott, Iowa

LINE BRED EXPANSION BOARS

SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address

C. B. Kneer, Stromsburg, Nebraska.

November Boars

WEIGHT 175 to 250. Price $20 to $30. All sired by Orange Boy. Some herd header prospects.

M. G. Arnold & Son, Strawberry Point, Iowa

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

RED POLLED CATTLE

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

PRIZE-WINNING RED POLLS

YOUNG bulls from best strains and with best qualities of the breed, all serviceable age. Breeders' inspection especially invited. Farm reached either from Clare on M. & St. L., or Barnum on I. C.

FRANK J. CLOUSS - BARNUM, IOWA.

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R.

JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

DUROC JERSEY SWINE.

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by Col. Gano and Chief's Protection, and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address

R. J. HARDING - - - - MACEDONIA, IOWA

20 CHOICE DUROC JERSEY FALL BOARS 20

I AM offering 20 choice, big, lusty fall boars for sale sired by C. Indicator 118489 and out of my very best sows. For quick delivery $25 to $50. Address, mentioning The Homestead,

W. J. WENDT, REMSEN, IOWA.

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mount's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

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GARDNER, ILLINOIS.

Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

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REED'S big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol. 40437a. If you want a big, smooth, heavy-boned pig, visit or write

WILLIAM REED, - ROSE HILL, IOWA.

DUROC JERSEY FALL BOARS

OCTOBER boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears.

J. C. PORTER - - - - OGDEN, IOWA

MIDLAND DUROC JERSEYS—Bred sows all sold. One yearling boar for sale or exchange for fall pigs. Address S. J. Butts, Mason City, Ia.

YEARLING DUROC BOARS

I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices.

M. S. PRATT, - - Frederika, Iowa.
R. R. Station, Tripoli.

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Address

Fred Swan - - - Missouri Valley, Iowa.

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb,

DUROC JERSEY FALL BOARS for sale; also trios, reasonable prices.

L. L. DE YOUNG, SHELDON, IOWA.

CHESTER WHITE SWINE.

G. O. SATRE'S CHESTER WHITE FALL BOARS

THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two-year-old boar, Royal Banner 22289, by Perfection by Climax. Descriptions and prices furnished on request.

G. O. SATRE - - - - JEWELL, IOWA

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

CHESTER WHITE herd boars and bred sows for sale. One boar is out of grand champion sow Iowa State Fair, 1912, and sows are bred to him. Address G. H. Tutt, Marathon, Iowa.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

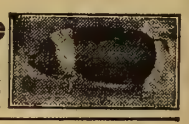
O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. Fred Ruebush, Sciota, Illinois.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

Orme's Prize-Winning Chester Whites I am offering 4 fall boars, 10 fall sows. $25 ea. A.C.Orme, Nodaway, Ia.

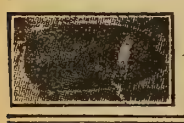
HAMPSHIRE SWINE.

Sunny Slope Hampshire Swine



200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.

C. A. BROOK, WASHINGTON, IOWA.



PRIZE-WINNING HAMPSHIRE SWINE

I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912.

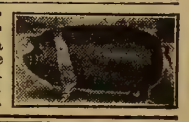
CLAYTON MESSENGER, KESWICK, IOWA.

HUGHES ATKINSON'S CHAMPION HAMPSHIRES

WINNERS at recent Indiana, Kentucky and Illinois State Fairs. Good pigs for sale sired by noted prize boars and out of our best sows. Spring males ready for use at once. Address

HUGHES ATKINSON - - - MT. STERLING, KENTUCKY

WAYSIDE HERD OF HAMPSHIRE SWINE



WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, DE KALB, IOWA.

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years. 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

Valley View Hampshires Nothing left at present but fall pigs. Address Fred Wheeler, St. Charles Ia.

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MADISON, WISCONSIN
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CONSULTING VETERINARIAN. Advice and prescription by mail $1.

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Mule-Foot Hogs

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350 BIG-TYPE MULE-FOOT HOGS, all ages. America's champion herd. Ponies and White Leghorn eggs. Address J. Dunlap, Williamsport, O.

ABERDEEN ANGUS CATTLE.

Alfalfa Herd Aberdeen Angus

WE now offer for immediate sale from the famous "Alfalfa Herd Aberdeen Angus" a few very choice bulls of serviceable ages, also a very desirable lot of females and young things. Readers of The Homestead searching for extra high-class breeding stock at prices well in keeping with the values offered, will be interested in what we have for sale. Write us or come and see us at once.

HARRISON & HARRISON - - - - INDIANOLA, NEB.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

ESCHER'S ANGUS BARGAINS

WE are offering for sale at private treaty **50** coming yearling Aberdeen-Angus heifers, sisters in blood to the champions and reserved champions at Chicago, 1911. Fifty imported females in herd—most of these heifers sired by our great imported bulls; 650 head in our combined herds. Bulls of all ages, high-class and good herd headers for sales at all times. Write us and come and see our herd. Address

Escher & Ryan, Botna, Iowa. Chas. Escher & Sons, Botna, Iowa.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

ABERDEEN ANGUS BULLS

I HAVE 7 bulls, all grandsons of Black Woodlawn, with quality that I am offering at farmers' prices. One is a toppy Blackbird calved last May. They are from 11 to 16 months of age. Call on or write

A. G. MESSER, GRUNDY CENTER, IOWA

ABERDEEN Angus bulls, young, well bred, good individuals. Also herd bull, Barbarous 94165 by Prince Ito. Maurice Green, R. R. 1, Wayland, Ia.

POLLED DURHAM CATTLE.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan, Scotch bred 3 yr. olds, and calves 6 to 12 mos., choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

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I KNOW THE BREEDERS.
I KNOW THE BUSINESS.

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TECUMSEH, NEBRASKA

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CAMBRIDGE - - - NEB.
(If it's results you wish, let's talk it over)

C. H. WOOD,
Live Stock and Real Estate Auctioneer,
Valparaiso, Nebraska.

COL. G. W. HALLER, Spencerville, O.
Horse and Hog Sale a Specialty
Sale tent free with services. Write for dates

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Pedigreed live stock a specialty. Write for dates.

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N. G. KRASCHEL

HARLAN, IOWA.

LIVE STOCK AUCTIONEER

I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

H. S. ALLEN, RUSSELL, IA.

LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

COL. H. L. IGLEHEART

Elizabethtown, Kentucky

LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

E. Z. Russell, Lincoln, Neb.
LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

W. B. CARPENTER
Live Stock and Real Estate Auctioneer

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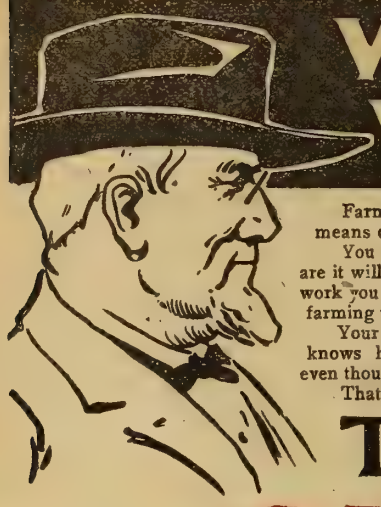
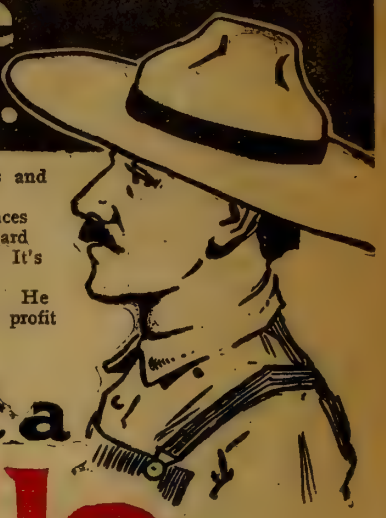
You Make a Mistake-John When You Gamble With Your Corn Crop.





Farming today should not be a hit or miss proposition. To be successful means to think, to plan, to adopt ways and means of making your crops safe even under most unfavorable conditions.

You are not doing this, John. You are gambling. Take conditions right now. Your corn was planted late, chances are it will be late in maturing. That means frost may get it first. If it does, where is your profit? What about the hard work you have done and the soil that has been robbed without fattening your pocketbook? Luck was not against you. It's farming with your eyes shut.

Your neighbor who has worked no harder who had exactly the same condition to meet, sits back and smiles. He knows his corn will be profitable because he intends to turn a part of it into ensilage which will make him a profit even though the balance of his corn fails to mature.

That's the way you should do it, John. It's the safest way and if you are wise you will

Take My Advice and Get a

Champion Silo.

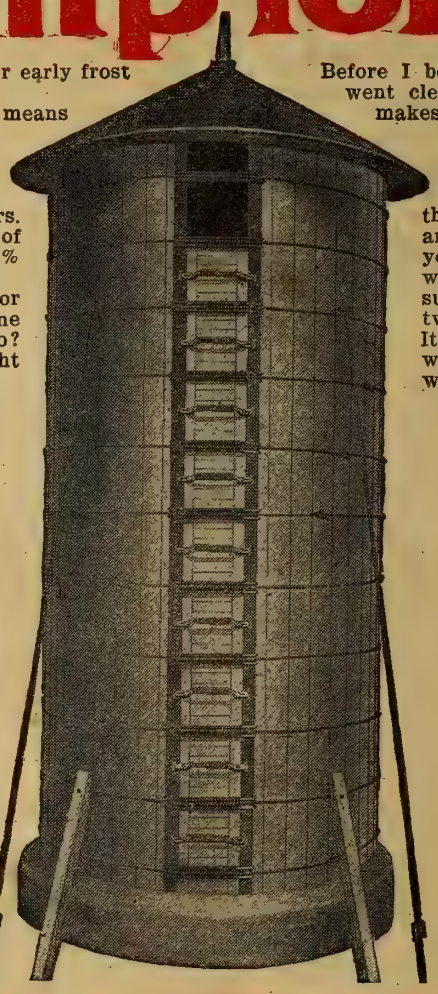
You will then be fixed so a backward season, drought, or early frost won't cause you any worry.

A Champion silo means more than just being safe. It means bigger profits from your corn land.

Why? Because from matured corn you pick only the ears. The stalks go to waste and by selling the corn or feeding it you only get market value.

With ensilage you use the stalks as well as the ears. There is no waste and where one acre produces 40 bu. of corn, the same acre yields 80 bu. in silage and silage has 25% greater feeding value than ear corn.

Those are real facts, John, and if you are farming for profit you won't pass this season without getting at least one Champion silo. Why do I recommend the Champion silo? That's a straight question, John, that demands a straight answer. It's absolutely the best.



Before I bought my three silos I made a careful investigation. I went clear to the core on cement, hollow tile, brick and various makes of stave silos.

I talked with farmers who owned different kinds. I analyzed the claims made by different silo manufacturers. I wrote to the publishers of the best farm papers. I consulted several experiment stations and when I got all through the facts proved that the Champion silo stood head and shoulders above them all. I bought a Champion three years ago. I tried it out in every way. I made comparisons with other makes in my neighborhood and then I knew for sure that the Champion filled the bill. So last year I bought two more and it's been the best move I ever made in my life. It's really the silo that every wide-awake, progressive farmer will buy who wants the best. It's the silo you will buy if you will read on and find out how it's made.

How Champion Silos Are Made

No matter what anyone tells you, take my word for it, the lumber in the silo is the life of it.

Champion silo lumber is not bought sight unseen, because the lumber expert from the Western Silo Co. goes right out to the forests and makes his own selections.

After it arrives at the factory it is again sorted before made into staves. When it comes through it shows that the hand of an expert has guided every operation. Every stave is clean and smooth, perfectly matched and finished ready to build silos that are worthy of the name Champion.

The doors are made of solid California redwood which neither shrinks nor swells.

The door front is continuous, trussed and braced with angle and channel steel. Strong, durable latch holds doors in place and forms safe ladder.

Champion silos are built from the ground up. That's why putting up a Champion is easy. Every part fits like a glove fits the hand.

Modern Improvements on the Famous Champion Silos

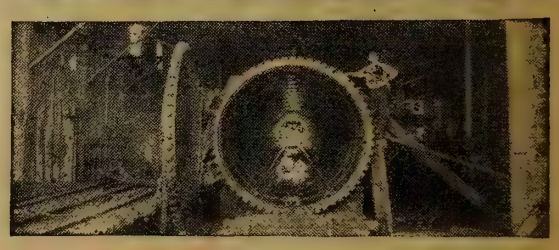
Improvements are also important features on a silo. The Champion today is as near perfect as skill and experience can make it.

The inside hoops add strength and hold the silo rigid. Champion silos are also equipped with base anchors and ground rods and ground plates.

Anchor rods are solid bar steel securely welded at the top and looped into U bolts which are bolted through 2½ in. plate on the inside of silo.

With this system of anchoring your Champion silo cannot be affected by wind or weather. Outside hoops are equipped with malleable lugs which will stand twice the strain required of them.

These and the numerous other features on Champion silos make them worth every penny they cost and from the number of Champion silos that are being put up in our neighborhood clinches my argument, John, that the Champion is the best.



Rot Proof Worm Proof — OIL FILLED STAVES — Also Proof Against Shrinking or Swelling

There is some talk about hollow tile or cement silos being best because they last longer. That's sales talk to overcome the much higher cost of these silos as compared with Champion silos.

Champion silos are permanent. They keep ensilage better. Stave silos have been in use over 75 years. That's long enough to test them. The other kind are still an experiment.

If you have any doubts about Champion silos being permanent investigate the new oil process of treating staves. It's the biggest advancement ever made in silo construction.

What is the new process? Just look at pictures then listen. The one to the left shows a load of Champion staves ready for the oil treating process.

These cars are all pushed into the air pressure drum shown in other picture. When cars are inside the drum head is closed tight, the oil is turned on and the enormous pressure of 250 pounds to the inch forces the preserving oil into the staves.

Just a minute now. Don't compare this process with the creosoting process where the staves are just dipped because on Champion silo staves the preserving oil is forced into the wood. It is made to penetrate the pores clear to the heart, making these staves absolutely rot proof, worm proof, proof against shrinking or swelling.

The next picture also tells an interesting story. It represents two pieces of piling taken from Galveston Harbor. The piece to the left was in use only one year, the other which was treated with special oil process has been in use 38 years and still good. Enough said. Champion silos treated by this oil process are permanent and as near everlasting as any material on earth.

Coupon

Western Silo Co., 100 11th St., Des Moines, Ia.
Gentlemen:—
John's case is like mine, so I want to know more about Champion silos. Send me free of charge and without obligation a piece of oil treated staves and your Portfolio of Experience.

I am going to buy a silo on or about _____

Name _____

Town _____

State _____ P. O. _____

Notice: If you have any neighbors who might be interested send their names and addresses on a separate sheet of paper and we will also send them Free a piece of stave and literature.

Send for Free Sample of Special Oil Treated Staves

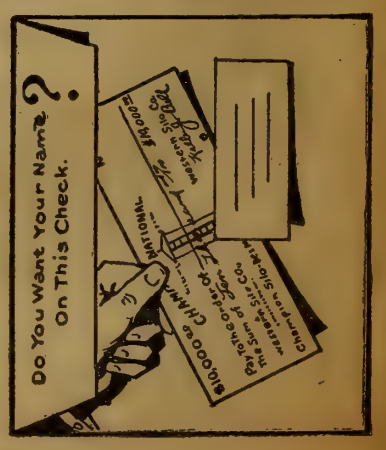
Just send your name and address on coupon and say that you are going to buy a silo this year. The next mail will bring you, charges prepaid, a piece of stave treated by this special process. When it arrives take your knife and cut into it. See how thoroughly it is penetrated and you will decide on a Champion silo without further argument.

Cut Out and Mail Coupon Today

In addition to piece of stave, we will send you free, our Portfolio of Experience which tells the experience of Champion silo owners. It shows some big profits that have been made by farmers and feeders. It contains proof of every claim made for Champion silos and will be of great assistance to you in settling the silo problem.

Don't put it off. A stitch in time is worth nine. The time will soon be here when you want to fill your silo, so get facts now. Address,

WESTERN SILO CO., 100 11th St., DES MOINES, IA.



BILL NO. 8 58

The IOWA Homestead

VOL. LVIII. NO. 27 DES MOINES, IOWA, 1913 WHOLE NO. 2908

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FOURTH OF JULY FUN

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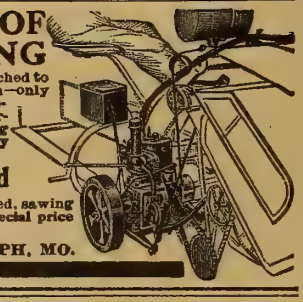

Our Wonderful WINNER WONDER 4-horse-power engine attached to your binder does all cutting, elevating and binding of grain—only enough horses needed to pull binder—enables you to harvest regardless of the condition of weather or grain. Engine fully guaranteed and equipped with every modern improvement, including special Ball Bearing Friction clutch, carburetor, etc. Speed easily changed without stopping engine.

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After harvest detach engine for general farm use—grinding feed, sawing wood, shelling corn, fanning grain, etc. Write immediately for special price and big illustrated catalog. Don't wait! WRITE TODAY.

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$25 for a Name for this Pony

I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

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Excellent Equipment.
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$250 Motorcycle Given Away

Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

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I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Popular Company
507 Popular Bldg. Des Moines, Iowa

Don't You Scoop!

Get this machine to unload and crib your corn and small grain. You can buy new machines—but you can't buy a new *back* or a new *body*—remember that!

LET THE LITTLE GIANT Crib Your Corn

Save Your Back, Your Time and Your Money

The "LITTLE GIANT" is the famous 4-wheel Green Machine seen everywhere at husking time. It is the only sensible practical way to get the corn and small grain into cribs. It does away with scooping—lets huskers do 20 per cent more work—gives you a chance to rest—saves lots of time, saves your back and arms—and saves many dollars that you never figured on. You can't imagine what a wonderful machine the "LITTLE GIANT" is or the wonderful work it does until you see it in action or read about it. Shelled corn and silk in the crib means rattage and molding. Our new screen feature in bottom section separates it from ear corn and saves it for feeding. Write us at once for catalog explaining it in detail and we'll tell you where you can see one.

WRITE!

You will be glad to read the many facts and figures in our book—the many letters from owners of "Little Giant"—all proving that *you* can save the hardest work of cribbing corn—that you can dump and crib 60 bushels of ear corn in 3 to 5 minutes, or 100 bushels of wheat, oats or shelled corn. Don't you scoop this year—don't ask your men to either. Let the "Little Giant" save health and strength and a big lot of cash money besides. It's the most practical investment for the *business farmer*—built to last a lifetime—big capacity, triple geared, conveys grain to any part of the crib and has many other advantages that place it far in the lead. Write your name on a postal and mail to us at once for catalog and all facts. Do it now and you will be sure you have taken the first step towards eliminating the back-breaking work of scooping. If you are going to build or remodel your cribs. Ask for our **Free Crib Plan Book.**

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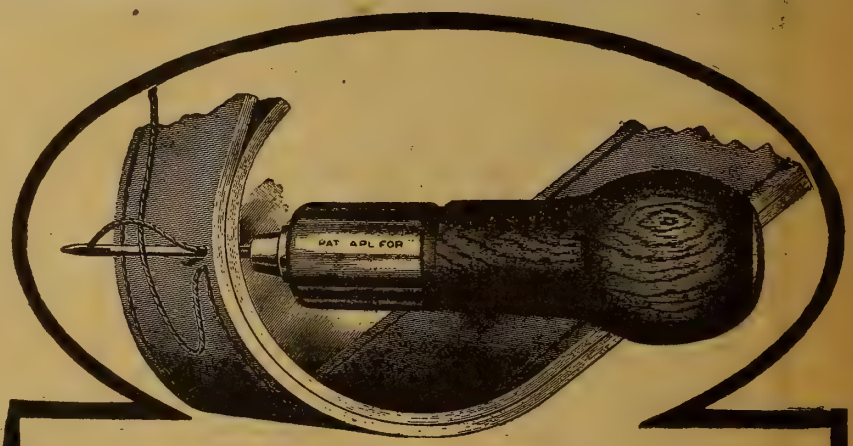
RECOGNIZED by the U. S. Dept. of Agriculture. Positions open to graduates, state and county veterinarians, U. S. Vet. inspectors, U. S. army veterinarians, teachers in veterinary and agricultural colleges. Private practice unlimited. Veterinary inspector's salary, $1.400 per year, over 3,000 clinical cases during the past term. Address F. W. Caldwell, Pres., 8th St., St. Joseph, Missouri.



DOES YOUR Harness Need Mending?

SEEDING, corn plowing, haying, harvesting and threshing are all destructive to harness. No doubt your harness needs mending. Anyone can mend his harness with my Speedy Stitcher. The broken part will look just like a harness maker had mended it.

The Speedy Stitcher is the latest invention and the most effective of anything in the form of an Automatic Sewing Awl ever offered. Its simplicity makes it a thoroughly practical tool for any and all kinds of repair work, even in the hands of the most unskilled. With this Awl you can not only mend harness, but shoes, tents, awnings, pulley belts, carpets, saddles and suit cases.

The Speedy Stitcher is provided with a set of diamond-pointed, grooved needles, including a special needle for tapping shoes. It also contains a large bobbin, from which the thread feeds. Both needles and bobbin are enclosed inside the handle out of the way. This Awl has a tension which enables you to tighten your stitch. These valuable features you will not find in any $1.00 Awl.

MY BIG FREE OFFER

I will give one of these excellent Speedy Stitchers absolutely free to anyone who will send me $1.00 for one year's subscription to The Homestead.

Kindly use the coupon below and be sure to send your order in today before you forget it.

JAMES M. PIERCE - DES MOINES, IOWA.

USE THIS COUPON

Date 1913

James M. Pierce, Pub. Homestead, Des Moines, Iowa.
Dear Sir:—Enclosed find $1 for one year's subscription to The Homestead. For my promptness send me postpaid, free of charge your Speedy Stitcher.

My name is.....

Postoffice .....

Rural Route..... State.....

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JULY 3, 1913.

CUTTING DOWN THE EGG LOSS

Model Egg-breaking and Freezing Plant Established, Under Government Supervision, at Sedalia, Promises to Minimize a Loss Now Approximating Many Millions.

FOLLOWING suggestions made by United States officials, the Murray-Schmidt Poultry and Egg Company, at Sedalia, Mo., have constructed and equipped the only model egg-breaking plant in this country. It was opened for business with considerable formality in June, attended by a number of government and state officials, poultry dealers from several states and by a large number of physicians who have become interested in the advisability of recommending sweet frozen eggs in place of the popular "fresh eggs" for their patients in the hospitals.

The plans for the model egg-breaking plant were drawn up by H. C. Pierce, chief field officer of the Food Research Laboratory of the Bureau of Chemistry, which has its headquarters in Philadelphia, under the direction of Dr. Mary Pennington. Mr. Pierce and four assistants will remain at Sedalia for at least a year, studying the egg-handling business in every movement from the producers to the consumers. Miss Mary K. Jenkins, assistant bacteriologist for the department, has spent several days at the plant and will make frequent visits to it during the coming months to make bacterial tests. However, the plant is not working under government inspection as the live stock packing plants do, but the management has spent about $6,000 in constructing and equipping the plant for this work and is co-operating with the government in working out a process for saving millions of dollars' worth of eggs for consumption which annually have heretofore been a total loss. The preventable loss on eggs in the United States is estimated by the government to be at least $45,000,000 annually.

The room is 24x28x12 feet high. Walls, floor and ceiling are of hard cement coated with white enamel, so constructed that there is not a corner in the room for dust to lodge. The windows are all on the north and are of double construction with an air space between to help keep out the heat. The outer windows are of prism glass to throw the light into the back of the room. The temperature is maintained at 60 degrees, by a system of air circulation radiating from a distributor near the ceiling. The air is washed and then cooled to proper temperature in another room and forced into the breaking room by fans. The girls enter the room through a double vestibuled hall, connecting with their cloak and rest rooms where they remove their outer street clothing and put on white dresses and white caps before entering the breaking room. The caps are required to prevent any dust in the hair falling into the broken eggs. Four washing fountains in the room, provided with foot control, are used by the girls to wash their hands before beginning work and as often as necessary to remove any odor of a musty egg broken by them during the day. The foot control is used to keep their hands from coming in contact with any object which might carry bacteria to their fingers after same had been washed. Each young lady wipes her fingers on a sterilized towel before breaking each egg, so that bacteria from the egg shell of one egg will not be communicated to the contents of another egg.

All of the utensils are sterilized before being used and if an egg is broken which is the slightest off odor, the contents of the cup are thrown into the tanners' grade and the utensils are all sent back to the sterilizing room to be purified. In this room the glass cups are scrubbed out with boiling water by electrically driven brushes, dried and then placed in the sterilizing oven.

The eggs used are the very large or small sizes which are not suitable for packing in the standard grade; "checks" and "breaks" which are discovered in the candling room; and dirty eggs sorted out of the large quantities handled daily by the company. No inferior or second-quality eggs are broken knowingly, and when one is discovered by the careful inspection of each broken egg, the contents are dumped into the tanners' grade. By breaking the "checks" and "breaks" near the source of production, the contents are practically all conserved in first-class condition, whereas if those same eggs had to be placed in crates and shipped to Philadelphia or New York, which are the ultimate destination of the surplus production in the Mississippi valley states, the entire lot would be in very bad condition upon arrival at market, but the commission man and the railroads would have to get their charges out of the lot just the same as if they had been perfectly good eggs, and that expense together with original cost has to be added to the selling price of the salable eggs, greatly increasing the cost of living. The dirty and odd-size eggs will bring more money in the frozen condition than if they are handled in the shells, and under the rigid precautions taken in breaking and freezing them will be worked up into food stuff freer from contamination with bad bacteria than the same eggs handled in the usual way and broken as needed. The capacity of the breaking room is 144,000 eggs per day, the girls working eight hours a day, six days a week.

The egg shells weigh about a ton per day, which so far has no value as a commercial commodity, but the experts have under consideration a plan to place the shells in large presses and squeeze out all moisture which can be used by the tanners, and then the dry shells can be ground and sold back to the poultry raisers as a concentrated shell material for their hens. The company handles more than 600 cars of eggs each season, making a total of 86,400,000 eggs, gathered from the farms in Missouri, Iowa, Kansas and Nebraska. During the laying season a hen averages an egg every other day. On that basis it would take 86,000,000 hens two days to lay the eggs handled by this firm. A normal egg is two and one-half inches in length and all of the eggs listed above, if laid end to end, would reach from New York to San Francisco, a distance of three thousand and two hundred miles.

YOUNG LADIES WORKING IN THE MODEL PLANT AT SEDALIA BREAKING EGGS FOR FREEZING IN THIRTY-POUND CANS AND SHIPPING ALL OVER THE COUNTRY.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

FOURTH OF JULY, 1913.

Unusual interest and sentiment attach themselves to Fourth of July this year. In a little Pennsylvania town of 4,000 inhabitants more than 40,000 men are assembled this week. They are grizzled and wrinkled; many lean heavily upon a cane; some go about on crutches; on some the hand of Death will shortly be laid. There will be casualties before these men leave the hospitable little town where they are now welcome guests. The Grim Reaper is hovering near, for these men have passed the allotted period of three score and ten; their race is almost run.

Fifty years ago these men were in the full flower of rugged manhood. They were the pick of the North and of the South. They had come from the farm, the factory, the store and the school and confronted each other from Seminary Ridge and Cemetery Ridge, from Peach Orchard and Big Round Top, with the lust of fighting in their brains, these men who had been brothers under the stars and stripes so long. There were men there whose names are illustrious today on history's scroll: Meade, Lee, Hancock, Longstreet, Sickles, Pickett. Men on horseback dash to and fro madly; slowly the columns take up the line of march or quickly they swing into formation and hurl themselves against the enemy, to be mowed down like grain before the reaper. Cannons belch their death-dealing charges and the flower of young manhood withers and sears before the devastating blast. Night falls upon wheat fields soaked with blood, upon orchards bearing only dead and distorted bodies, upon meadows where men have herded like wild beasts seeking each other's throats and life blood.

It is here, after almost a half century of peace, that 40,000 men who wore the blue and who wore the gray are assembled this week in peaceful reunion. The battle field of Gettysburg is sacred ground, never more sacred than this week, when the semi-centennial of the great and decisive battle of the civil war is being celebrated by the men who fought under Meade and under Lee. It is this which gives to Fourth of July this year more than the usual interest and sentiment. The red upon the flag means something this year; it is the blood of heroes soaked up from the field of Gettysburg. The stars mean something this year; they shone out for three July nights fifty years ago and gave the living new hope as they lay among the dead on the battle field. The flag has a more sacred look this year, for it shines over the reunited country which will never again know a Gettysburg of hatred, but always a Gettysburg of peace and union.

There is no field of waving golden grain or of upshooting green blades vast enough or important enough, no matter how many millions of mouths may be dependent upon it for food, to stand as a barrier between the patriotic American farmer and a celebration of this day with all its memories and meanings. As never before, Fourth of July this year is an institution, rather than an occasion. It is meet, therefore, that on the farm, as in the town, men should make of the day one of gala rejoicing and rededication to patriotic ideals. It is only by such days and such spirit that the sacrifices of fifty years ago can reach their full fruition.

CANVAS-CAPPING SMALL GRAIN.

A Missouri subscriber strongly endorses the plan of using canvas covers on grain shocks. In a communication on this subject he says:

The first cost of canvas caps for small grain is the bugaboo which unnerves the farmer when he comes to taking this modern, up-to-date step in saving his oats, wheat, etc., but we must remember that these caps will, with proper care, last for years and years, so that the initial cost will be lost sight of in the wonderful economy they prove.

Canvas caps are much less bother and can be put on the shocks with less labor than the old, cumbersome method of capping with a couple of bundles. After the field is in shock, simply load the canvas caps into a wagon, drive along the rows, and arrange the covers as you go. Small stones, light pieces of wood, or anything else available, should first be tied to each corner of the covers, to hold them down.

By capping the small grain with canvas, we avoid the drying out, bleaching and shattering of the grain. Where the grain is exposed to the action of sun and wind, it will forfeit sufficient moisture to cut down the weight per bushel considerably; while the quality of the product will be impaired by such processes. These caps also add to the brightness and value of the straw. The effect of sun and wind on small grain after a rain has caught the product in shock is especially damaging if it is not protected by these canvas covers, as the thorough soaking, then exposure to these elements, causes excessive and very rapid drying out.

Then, with good canvas caps on the small grain, we avoid the danger of the shocks being blown over, as the smooth surface of the covering gives the wind no place to get a hold on the sheaves. Where shocks are left open, or capped by the old method, many of them are blown over before threshing time; these usually are neglected, rain falls on them, and mold results. Sometimes the sheaves reach the damp earth and in such case, there is a total loss of the grain by rot. All these damages make it impossible for one to thresh a uniform product, as some of the bad grain is sure to be overlooked and put in with the first grade. This results in a lowering of the grade in the whole crop.

Other economical points in favor of the canvas caps are: Protection from birds; straight, well-formed bundles to handle at threshing time; and prevention of destruction by insects. The continued foraging of birds, insects, and many times the farm poultry, on our grain fields, amounts to something that would surprise the farmer if he could know the full extent of such depredations. We thus realize not only a big saving of valuable grain by the use of canvas caps, but the product thus harvested will be of higher grade, and when put on the market, will command a premium over that of the man who handles his grain by the old method of capping. The quality and productiveness of grain can even be improved from season to season where this system of capping is adhered to, as the seed will be of superior germinating powers when thus protected, and will propagate stronger, more vigorous plants than that which is carelessly handled from the time it is bound till threshing time.

Unquestionably considerable loss results from the ordinary method of handling grain in the shock. The plan here suggested has not up to the present time been extensively carried out in the corn belt and the word of this subscriber must be taken at this time for its practicability. There is no question but what covering will improve the quality of small grain and even increase the weight per bushel because, as a matter of fact, the bleaching that ordinarily takes place in the shock lessens the weight of the grain and impairs its quality.

MASONS HONOR A FARMER.

Nothing more conclusively proves that the farmer is emerging from the isolation in which he was all too long segregated than the election of a present actual and operative farmer as grand master of the Masonic lodge in Iowa. The man upon whom this honor was conferred by the oldest and one of the most highly esteemed of all the secret fraternities is Frank B. Whitaker, who has resided in the same county, Van Buren, ever since he was two years old (now almost a full half century) and who has been a farmer, actively and continuously, ever since he became of age. By being eminently successful in tilling the soil and at the same time in engaging in social intercourse with his fellow man, both in town and country, he has set an example which might well be imitated by other farmers.

The fact is, as this Masonic election shows, the farmer is coming to occupy a more commanding position nowadays, in all lines of endeavor, than ever before. And this is only right and proper. The farmer is no longer "only a farmer." The farm is a factory in which the raw material of the seed is converted into the finished product of the crop. Therefore the farmer is a manufacturer. The farm is a great business institution, in which dollars and cents must be balanced with nicety to insure profit and progress. Therefore the farmer is a business man. In his contact with fellow farmers and with city men, the farmer gets first-hand experience in questions running the gamut from law to medicine, from ethics to ethnology. As a result the farmer is becoming more and more an all-around student of public affairs in their relation to the individual. We find this idea well expressed by the editor of a daily newspaper in the state, who points out that the farmer is pushing the lawyer and the city professional man aside as he takes commanding position:

Lawyers have been pre-eminent in holding official station. This has been natural and logical. They are, as a rule, parliamentarians and are versed in the art of public speaking. Naturally they make excellent presiding officers. Doctors, teachers, merchants, bankers and others come along close to the lawyers in the development of some skill as speakers and presiding officers. The farmers, as a class, have not been counted strong along these lines, and for this reason have not been so frequently promoted to such places as presiding officers in such organizations as the Masonic grand lodge. This election, therefore, must be counted as marking something of a new era in these lines. It marks the entrance of the farmers into the ranks of men working in other lines as equal competitors for places requiring skill as parliamentary leaders and presiding officers.

The Masonic fraternity is to be congratulated upon turning to the farm; the farm is to be congratulated upon producing a man of the caliber and solidity of worth to be entitled to the high honor won by Mr. Whitaker. His election marks the dawning of a new day, a day bright with promise of enlarged usefulness and enlarged pleasures for the farmer.

MANURE FOR ALFALFA GROUND.

Those who propose to make a beginning in alfalfa growing this fall should keep well in mind the virtue that is found in farm-yard manure when it is applied to a soil which is to be used for alfalfa. Half a stand of alfalfa is of no value whatever and those who have had the most experience with this crop are the loudest in their claims of what can be accomplished by an application of farm-yard manure. If a small-grain crop is now growing on the ground intended for alfalfa the manure should be applied to the stubble land after harvest. Follow this up by a good, deep plowing and in turn put considerable work on the surface in order to get the soil as firm and fine as possible. Few instances have been recorded where a sweet, well-drained soil failed to produce nodules on alfalfa roots when an application of farm-yard manure has been made to the land.

A few years ago an instance was called to our attention where a coating of manure was plowed under after the removal of a crop of millet and in addition seven tons of manure per acre were applied just previous to sowing the alfalfa, this being worked into the surface soil by the free use of the disk. The field handled in this way cut three tons of alfalfa the first time the year following. Alfalfa was an experimental crop on this farm, but nodules in abundance were produced on the roots, showing undoubtedly that this favorable infection had been carried to the field with the manure.

THE HAY LOADER FOR ALFALFA.

One of our Lyon county, Kan., subscribers asks for some information on the use of a hay loader in alfalfa. This subscriber has built a barn in which to store the most of his alfalfa crop, and if a loader would handle alfalfa hay successfully, he would buy one to use in saving the labor of loading on wagons in the field, the barn not being near the field so the hay could be brought to it with sweeps.

The modern hay loader handles alfalfa successfully and with less shattering and loss of leaves than when pitched by hand, but it is not advisable to use it in the swath, for the simple reason that the hay will dry and burn in the swath before it can be taken up with the loader. One should rake in small-sized windrows, either with a common or a side delivery rake, and load from the windrow. The reason we say small-sized windrows is to give the man on the load time to handle the stream of hay the loader puts up to him, for it comes up the size of the windrow. If this is too large the man on the load cannot handle it, even with a slow-walking team pulling wagon and loader. As far as the loader itself is concerned, it will do the work of taking up alfalfa and will put it up on the wagon in a very satisfactory manner, leaving practically no scatterings in the field unless the windrows are scattered out wider than is the loader. The hay loader is a great labor-saver where hay of any kind has to be loaded on wagons in handling.

THE SUCCESS OF NEW IDEAS.

The corn-fed steer of the northern part of the grain belt confronts a new rival: the peanut-fed steer of the southern part. The experiment of fattening cattle and hogs on "goobers" is being successfully tried out in Oklahoma, where a much larger area than usual is planted to peanuts.

A writer in one of the daily newspapers calls attention to the interesting changes that the past decade has seen in this all-important matter of stock feeding. The old grass days have been succeeded by these piping times of agricultural prosperity when the ingenuity of man is discovering new feeds almost every day. Thus while throughout Montana, Wyoming and Utah cattle are rarely fed on anything except grass, in the San Luis Valley in Colorado, a valley some 200 miles long and fifty to sixty miles wide, stock is fattened for the market (and particularly is this the case with lambs) on cowpeas. In other parts of the west grasses and grains are supplemented or displaced by products of the crushed and ground cotton seed. In the sugar beet districts of Kansas and Colorado cattle are fattened on beet tops and the refuse of the beets after the sugar has been extracted, known as sugar beet pulp. The writer in the daily newspaper continues the story:

A good many feeders in the corn belt use ground alfalfa, sweetened with molasses, enough of the latter to hold the ground feed together. They, too, have a market name and are known at markets as "molasses steers." In the distillery and brewery sections of Illinois, Kentucky, Pennsylvania and other states a large number of cattle are fattened each year from the refuse of the hops, rye and other grain. This feed comes to the cattle, which are quartered in large barns, in mash form. Between 160,000 and 200,000 such cattle were marketd in Chicago and the East in the last two months under the description of "slop steers."

Now, all this long list of feeds is being augmented by peanuts, not only the nut but the whole vine being fed to the cattle, hogs, sheep and horses. Advices from Stephens county, Oklahoma, are that the experiment is meeting with good success, stock fattened on this feed selling as high as that fattened on grain.

The moral of the whole story is that agriculture is reaching such a high development that the farmer is no longer dependent either upon the machinery or the ideas of yesterday in order to still further advance the science of farming. The department of agriculture has scouts all over the world seeking new products that can profitably be transplanted to this country. The ingenuity of man is being exercised to the utmost to devise new methods of cutting down farming expenses and making every minute, every effort and every thought count double what they did yesterday. Stories of crop failures are offset by stories of crop successes. The whole farming story is a tribute to the indomitable energy of the man who goes forth into the fields each day with unlimited possibilities beckoning him and giving to farming not only a profit but a zest.

Hot weather is "bully for the corn" all right, but it is not the kind of weather that makes the hogs happy, even with the best of care. An open shed where the hogs can get the advantage of every little breeze and be protected from the sun is as good as a palace for the hog on a hot day.

To Control Hog Cholera

NATIONAL, state and individual co-operation to control and ultimately to check hog cholera is the program of Dallas county, Iowa. A campaign, starting this week, will serve as an object lesson to the rest of the country, several crusades in other states being dependent upon the success of the work in Dallas county.

The work is to be carried on along three distinctive lines: First, administration of serum by government experts; second, maintenance of quarantine regulations by the state veterinarian; third, educational work among the farmers themselves by the extension department of the state agricultural college. Altogether it is expected to spend fully $40,000 in Dallas county during the next few weeks, this being the first county in the United States in which the work has been carried on in this three-fold manner of co-operation. That the work is necessary and the immense expense justified is shown by the fact that during the past year more than $65,000,000 worth of hogs has been killed by cholera in the United States, this being a loss of close to one billion pounds of pork, or eleven pounds per capita, the Iowa share in this vast loss being 150,000,000 pounds of pork, or sixty-five pounds to a person.

Dr. W. B. Niles, government expert stationed at Ames, will supervise the experiments, with Dr. O. B. Hess, of Washington, D. C., in charge of the field work. It is not proposed to vaccinate all the herds in the county, Dr. Niles outlining the plans by saying: "When cholera appears in a herd we will treat the hogs before the disease spreads. Near-by herds will be immunized. The farmers will be expected to permit us to treat their herds, notify us at once if cholera is present, let us decide whether treatment should be adminstered, and, in fact, put their herds in our care." Dr. Hess will have two assistants in the field throughout the summer, believing this force sufficient to take care of cases the same day they are reported, or by the next day at the latest.

The quarantine will be in charge of Dr. James I. Gibson, state veterinarian, who impressed upon the farmers of Dallas county at a meeting last week the importance of submitting to strict quarantine regulations. "This is the time of year cholera naturally begins to make its appearance in herds," he explained. "It is necessary that a herd be quarantined when the disease appears or cholera will spread over the entire township, eventually over the county." Not only will the infected herds be quarantined as far from the roads as possible, in order not to spread the infection to passing animals, but steps will be taken to prevent the shipment of infected stock and to disinfect stock cars.

The educational work will be in charge of Prof. W. J. Kennedy, of the extension department of Ames, who announces that a special bulletin dealing with hog cholera, its treatment and prevention, will be distributed among the farmers of Dallas county within a few days. Three veterinarians from the college will be in the county throughout the entire summer, talking hog cholera in every schoolhouse in the county and mingling with the farmers at their homes, giving them practical advice. The work began last week when Dr. H. E. Bemis, of the veterinary department at Ames, delivered the initial lecture on hog cholera in one of the public schools. The menace of the pigeon, the crow and fly as conveyers of cholera germs will be pointed out in this educational campaign and everything possible done to instruct the farmers of Dallas county in the work of putting a stop to the transmission of cholera germs.

The initial steps for the campaign were taken at a mass meeting held in Adel last week, attended by government experts, a number of the faculty of the state agricultural college and several score of Dallas county farmers. Dean Curtiss pointed out that if the work planned for Dallas county had been carried on throughout Iowa generally last year a saving in the state of between $5,000,000 and $10,000,000 would have resulted. Co-operation between the federal experts, state authorities and individual breeders is relied upon to put a stop to the ravages of the disease, the losses from which have already reached an immense total.

SOME VALUABLE SUMMER CROPS.

Those who are in a position to convert considerable part of their corn fodder into ensilage are not specially interested in the production of midsummer crops. However, as the man who owns the silo is the exceptional individual in every community what is here said will interest the great majority of our readers. There is still sufficient time to sow crops that will add immensely to the supply of roughage to be available during the winter months. Feed lots that have been eaten down and that will, therefore, produce little or nothing during the remainder of this summer can be used to very great advantage in growing such crops as cane, millet or rape.

Cane seeded at the rate of from sixty to eighty pounds per acre many times during the latter part of June or the first ten days in July will ordinarily mature a crop sufficiently to produce ideal fodder. One point that must be kept in mind at the time of sowing is to be sure that there is sufficient moisture in the surface soil to germinate the seed, otherwise the seed will simply be wasted. In any event it is a good plan to cover the seed somewhat deeply because even in the case of light rains the immediate surface dries out quickly and an inch or two of soil covering will always be favorable to a good stand.

Millet is a good summer crop, though not as heavy a yielder as cane or sorghum. Seeded at the rate of three or four pecks per acre it should produce anywhere from two to four tons of cured hay and if it is cut shortly after it is headed the hay may be used for practically all kinds of stock.

Rape is entirely different in its character from the two crops that we have mentioned and it is adapted for pasture purposes only. It may be seeded any time in June or July with reasonable expectations of getting a good growth providing there is sufficient moisture to germinate the seed. A beginning may be made in pasturing it usually in the course of five or six weeks after seeding and as it is a hardy crop stock may be kept on it right up to the time when the ground freezes. Rape is usually endorsed as a crop to be pastured by hogs, but as a matter of fact, if it is sensibly used cattle may be pastured on rape with most gratifying results providing they have access at the same time to good blue grass or to a mixed clover and timothy meadow.

In some cases it is entirely practicable after the removal of early oats or winter wheat to prepare the soil for either one of the crops that we have mentioned. It goes without saying that there can be no great delay in curing the grain crop if it is the intention to carry out this plan. Sometimes grain is shocked in such a manner as to permit plowing most of the land and the seeding of the same even before the shocks are removed. Where roughage is likely to be scarce or the hay crop short this plan is well worthy of consideration.

FORCING CALVES TO THE FRONT

A former Iowan, C. O. Kaiser, now from the Panhandle, Texas, has demonstrated what can be done with a combination of good beef-cattle blood and sensible feeding methods. Mr. Kaiser has recently sent to the Kansas City market ninety-three short yearlings, these ranging in age from twelve to fifteen months, and realized for the best of them an average of $86.85 per head. These yearlings, though in reality just calves, were weaned last November and from that day until the period of marketing they received kaffir corn ensilage, ground maize, together with a small proportion of cottonseed meal, and a little sorghum for dry roughage.

On this ration twenty-six of these calves attained an average weight of 965 pounds and sold at nine cents per pound on the Kansas City market. Forty-one of the steers weighed eighty-seven pounds and sold at $8.85, or an average of $77.61 per head. The heifers in this lot weighed 689 pounds and sold for $8.85 or $60.97 each. At weaning time these calves weighed practically 400 pounds, so that the best of them gained approximately 100 pounds per month until they were finished. These calves were carried so as to preserve their baby flesh and the record made in this instance is one that should be an example to every corn-belt farmer who has the slightest impulse or inclination to raise and market his own beef cattle. Not only were the gains satisfactory in this case, but as ensilage constituted the bulk of the food consumed after weaning, the gains were made at a minimum cost and this is another matter which should sink deeply into the hearts of the corn-belt farmers.

ANIMAL HEALTH REGULATIONS.

Through the office of the state veterinarian, the Animal Health Commission of Iowa have promulgated a revised set of regulations governing the introduction of live stock into the state. These restrictions are more severe in their requirements than any that have heretofore existed. They apply to horses, cattle, sheep, goats and hogs, and demand that a certificate of health accompany each animal brought into the state.

At this time the ruling concerning the treatment of hogs to be exhibited at fairs is of interest. It provides that all hogs to be exhibited at any fair in the state of Iowa, whether it be state, county, district or a mere neighborhood exhibition, shall have been immunized with the Dorset-McBride-Niles anti hog cholera serum and that a certificate of such vaccination signed by a veterinarian accompany each animal. If the vaccination is made with serum alone the certificate must show that the operation has been performed within thirty days from the date of the fair at which the hog is to be shown. If the simultaneous method is used the certificate must show that vaccination was made not less than thirty days prior to the date of show. Exhibitors at the Iowa State Fair may have the vaccination done at home, or, if they prefer to do so, may be cared for under the supervision of the state veterinarian on the fair grounds. It is quite probable that a small charge will be made to cover actual cost of serum if the vaccination is made on the fair grounds. The regulations, while insisting upon vaccination, permit the owner the option of the single or double treatment. Hogs which have recovered from an attack of cholera must be vaccinated just the same as those which have not been affected.

In the case of dairy and breeding cattle the animals over six months old brought into the state must be accompanied by a health certificate including the record of tuberculin test. It is required that this test and inspection be made not more than thirty days prior to the day of importation. Steers and cattle intended for immediate slaughter are not subject to inspection.

Certificates of health must originate either from the federal, state, or assistant state veterinarian, or from a graduate veterinarian who has the endorsement of the state veterinarian. It is required that three copies of the certificate be obtained by the owner of animals that are inspected.

When shipped one is attached to the way bill, the duplicate sent to the state veterinarian at Des Moines, Ia., and the third one forwarded to the state veterinarian or live stock authority of the state from which the stock is being shipped.

Several new strains of winter and spring wheat on the experiment plots of the college of agriculture of the University of Wisconsin have heads well filled with heavy berries, borne on straw that stands up well, promising large yields. Selected heads of ten of the most promising strains have been reserved for further breeding in accordance with the practice of the college, and selections will later be made of the best heads of new strains of spring wheat.

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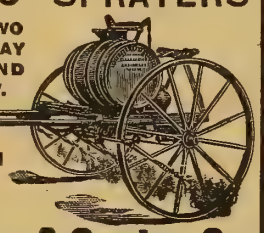

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

There may be many easy ways of killing morning-glories in the corn field, but I have never learned any easy way. My way is to stop my team when I find a bad patch and pull them up with as much of the roots as I can get. This usually checks them for a while.

As the roads dry up and become smooth the automobile fever breaks out among the farmers. There are about twenty autos owned by farmers in the township in which I live. If this indicates anything it indicates that the roads will be looked after pretty closely in the future.

The call for volunteers for the clover brigade was unusually well answered this spring. Cows, clover and corn have carried many a family over the financial seas.

The apple crop is not quite what it promised to be at the blossoming stage, but the trees are still pretty well filled with young fruit. An apple crop that breaks down the trees is not a thing to wish for.

A well-made board gate is a thing of beauty and a joy so long as it lasts, but it cannot compete with the all-steel gate, either in service or beauty. The main beauty about any gate is its ability to turn all kinds of stock.

No farmer would use a stirring plow that does not scour, and the same rule should hold good with the corn-plow shovels, especially the first two times through the corn. Weed killing is the main object at this time, and it takes a sharp, clean shovel to do clean work.

The early bird may possibly get the worm, but it is a mistake to make this an excuse for rushing into the field when the ground is wet and soggy, either for planting or cultivating. It is crops, not worms, that we are after.

The neighborhood celebration is more the rule than when I was a boy, —and everyone went to their near-by town on the day of the glorious Fourth. The firecracker and pin wheel are also going out of style.

There is a theory that corn is not growing its best until it curls in the heat of the day. It does corn no hurt to curl when small, but it gives me somewhat of a pain to see it curl at the earing stage, and when it does not uncurl during the night there is reason for still more concern.

Deep cultivation of corn is not always the thing, although I believe in it when there is plenty of moisture in the soil. After a loose mulch has been made by a deep cultivation, I do not believe in going down below it in dry weather. Of course, a heavy, packing rain disarranges all plans and causes us to change face in a few hours.

I am going to keep a close watch on a concrete silo made by a neighbor. It is certainly a fine piece of work, costing $750, and looks as if it might stand for ages. Even the feed chute is of concrete, nicely rounded to look the best.

The shortage of cattle is going to be overcome slowly. It will be years, if at all, before there will be a surplus, simply because so many farmers who used to keep beef cattle are now devoting all their energy to dairying, and veal the calves. Perhaps we ought not to sell so many veals, but so long as it is highly profitable to do so, we'll do it just the same.

So far this has been a great alfalfa year. Both the first and second cuttings have yielded heavily. Seasonable rains will easily make two more good crops. Alfalfa is certainly great. No other crop turns off from three to five yields in a season.

Asking a farmer to produce more that he may sell it cheaper does not appeal very strongly to the farmer. To him, it looks like a case of working harder for the same money.

The orchard makes a good hog pasture as far as the hogs are concerned, but it is hard on the orchard. If you want to get rid of the trees not quite so quick as by girdling them it can be done by fencing the hogs in the orchard.

A cycle of dry years brings on a heavy crop of insect pests. Such insects as chinch bugs, Hessian fly, grasshoppers and the like have been increasing from year to year, for the past three years. We need one year of floods to rid the country of the increasing insects, although a more moderate rainfall would be better for all else.

Recent rains have put new life into everything green, and everybody, except a few automobile fiends, are happy.

Twine is generally higher in price this year than last. While the grain crop, the country over, will not take as much twine as usual, more and more is being used each year on the corn crop. The silo has increased the use of twine greatly, and now it would not surprise me to learn that more twine is used on the corn harvest than on the small grain harvest.

Each decade seems to add some necessity to our mode of living. This necessity frequently comes first in the form of a luxury, but soon develops into the necessity that people find it to be. Who among us would like to get along without rural mail delivery and telephone? I heard a farmer say, the other day, that he now considered his auto a necessity.

The oat crop is one that has a great come-out to it if the weather is only favorable at heading and filling time. I have seen a miserable looking prospect make a fair yield just because there happened to be a week of good weather at the right time.

Road grading should be done before the first of August. If done later in the fall the grade hasn't time to settle before winter, and rains keep it a mud lobby all winter, except when frozen. Road officials should do grading first and culvert work later in the season.

This is another good hay year. Taking the country over, I doubt if the crop has been beaten by any other in the past ten years. I plan on feeding all hay on the farm, so the market makes little difference to me, but I would like to see those who do sell get more than they likely will get for this crop.

It is not only annoying but expensive to plant seed that does not grow. Now and then seed sent out by seed companies will not grow, as I have found out through experience, but I am glad to say that reliable seed houses are more and more careful each year in making germination tests of all seeds handled by them.

There is a great difference in the work of shockers; some men take pains to set each bundle down solid, while others simply throw the shock together. I have even seen men stand off and throw bundles against the shock, and the first wind blows such shocks down. It pays to do a good job of shocking, for the weather is "catchy" at this season of the year and several rains may fall while the grain is in the shock.

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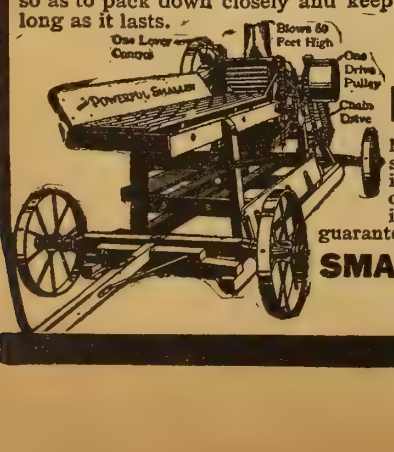

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CURRENT EVENTS

THE semi-centennial of the battle of Gettysburg is being celebrated this week in the historic Pennsylvania town where 45,000 soldiers of the North and the South were killed or wounded in the decisive battle of July 1, 2 and 3, 1863. The legislatures of practically every state which had troops engaged in the battle made appropriations to pay the traveling expenses of the survivors, these funds being augmented by private subscriptions. The result was that thousands of Union and confederate soldiers are fraternizing today on what was one of the bloodiest battlefields of all history fifty years ago. Ex-President Taft is in attendance at the celebration and is scheduled to deliver the principal address, President Wilson being unable to be present. The battle of Gettysburg marked the turning point of the civil war, prior to that time no decisive victory having been won by either side. It was also the first and practically the only big battle fought on northern soil. The tide of the battle turned often during the three days that the troops under General Lee and General Meade opposed each other, but at last victory settled on the Union forces and the confederates retreated in disorder. Fifty years afterwards finds all sectionalism dead, with a united people celebrating the battle without any trace of the former bitterness which came so near to disrupting the nation. Many heart-touching reunions are in progress at Gettysburg this week and because of the age of the survivors the spectacle presented is picturesque, even dramatic, in the extreme. The principal places in the three-days battle have been appropriately marked. The visitor is able to trace the progress of the struggle by markers which show the engagements and the troops which participated therein.

FREE wool immediately and free sugar in 1916, as demanded by President Wilson, have been agreed to by the senate democrats who, in caucus, by a vote forty to six, determined to stand by the president on these schedules of the Underwood tariff bill. Free sugar in three years is strongly opposed by the two democratic senators from Louisiana, on account of sugar making being the principal industry of that state. It is expected that these two members will vote against the party measure when it comes to the final test. The others who were opposed to the schedule in the caucus come from sugar beet states (Nebraska, Nevada, Colorado and Montana), but the administration hopes to hold them in line when the final vote is taken. In return for the vote of these members against free sugar the two Louisiana senators joined them in voting against free wool, but the half dozen rebels were unable to make any incursions on the rank and file of the members and the party solidarity is being well maintained. The finance committee of the senate has practically completed its consideration of the tariff bill and it now goes to the body as a whole, to be debated for several weeks, after which the final vote will be taken and the two houses will consider it jointly to harmonize whatever conflicting views may arise.

THE popularity of the Canadian landward movement is shown by remarks made recently by Speaker Champ Clark, of Missouri. The speaker was emphasizing the point that while the nation is so seriously considering the problem of new people coming into the country, it should likewise take heed of the large number who are leaving the country, seeking new homes elsewhere and particularly in Canada. He cited figures to show that in one week, not long ago, 1,845 American farmers, with $388,500 in cash and $145,000 in personal property, crossed into western Canada to settle permanently, an average of $288 per capita. The speaker added: "These emigrants are among our best citizens. I am personally acquainted with 200 or 300 of them. There is not a bad or shiftless man in the lot. They are seeking to better their condition. They almost invariably take their families with them. The principal reason they expatriate themselves is the lure of cheaper lands and less stringent land laws as to homesteading, etc. Congress should make our homestead conditions as easy as possible compatible with safety, and should increase the area for home building by judicious encouragement of both irrigation and drainage. A statistician has figured that the average adult citizen is of the money value of $1,000 considered solely as an asset to the country. If that is true the 1,845 American farmers who crossed the Canadian border depleted the assets of the republic that week by $2,378,500, which, multiplied by fifty-two, would make the grand annual total loss to the republic $123,682,000, gone to Canada alone." The Canadian movement has lost none of its popularity, but continues to attract American farmers. Particularly is this so since the Dominion does everything in its power to welcome the newcomer and make his stay pleasant and profitable. There is much that Uncle Sam could learn from the way Canada handles the immigration and the colonization problems.

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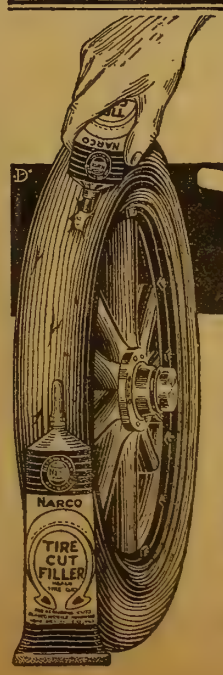

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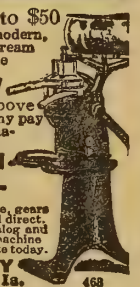

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DAIRY

MAKING BUTTERMILK FROM SKIM MILK.

To the Editor of The Homestead:

It is the opinion of many dairymen, as well as a great many consumers of milk, that good buttermilk can only be produced from whole milk. But first-class butermilk can be made from skim milk, thus making better use of this valuable by-product of the dairy than is generally done. The quality of buttermilk depends mainly upon the proper ripening of the milk or cream, and does not depend upon the fat content. In either case the good qualities, such as palatability and flavor, are not due to the amount of butter fat present, but are due to the development of the lactic acid fermentation.

In order to produce good buttermilk from skim milk it is necessary, first, that the latter be aerated and cooled, for there is a considerable amount of air incorporated with the milk during the process of separation, which causes it to foam, and as this air is warm it must be removed. When it it is allowed to remain in the milk undesirable fermentation arises, and the milk will "whey" and foam a tough floating curd. If the milk is allowed to stand for a short while after being separated, the foam will all come to the top of the milk and can be skimmed off with a dipper or the milk can be drawn off from the bottom through a faucet or poured from beneath the foam. After this foam has been got rid of the milk should be run over a cooler of some kind, such as the ordinary drum cooler, but in case this is not available the milk should in any event be cooled thoroughly by setting it in the spring water, or in some kind of an ice box, or even in a cool cellar. It is very important that the milk be kept cool for at least twelve hours.

After the skim milk has been kept thoroughly cool for twelve hours, its temperature should be raised to seventy degrees F., which is the best temperature for ripening, and allowed to become sour. When at this temperature it will not take the milk long to sour, and in about twelve hours it will be clabbered, but not yet ready to be churned. It should now be cooled to sixty degrees F., or lower. This should be done in the same way as it was cooled previously, and the milk allowed to set at this temperature at least twenty-four hours longer before being churned, thus making it from thirty-six to forty-eight hours old when put on the market. It is best not to break the clabber up until ready to churn.

Prior to churning it is very important that the maximum development of lactic acid take place. If a small amount of whey rises on the top of the milk no harm will result. The damage is done by a floating curd and whey at the bottom. Hence, in successful buttermilk making it can be seen that the proper cooling and ripening of the milk are both very important features.

The process of churning can be varied to suit local conditions. The wood dasher, the same as is used in a common dash churn, can be used to thoroughly break up the clabber while it is yet in the "shotgun" or cooling cans. This is a fairly good method where only a small amount of buttermilk is made. Or the milk can be put in the churn and churned for twenty or thirty minutes. In any event the clabber must be thoroughly broken up and in all cases the buttermilk must be strained to remove all lumps of curd and to make it smooth.

The consumers should receive the milk as soon as possible after churning, because of the fact that they wish it fresh. Keeping it cool from the time of making until delivered is very important. The receptacles should be wrapped in wet blankets or have ice cylinders in them.

All vessels used in making and handling the milk must be kept perfectly clean. It may be supposed that because the buttermilk is already sour it is not necessary to exercise so much care in keeping the utensils clean, but good buttermilk cannot be made from skim milk without cleanliness in all things pertaining to it. Unclean vessels will cause the milk to sour too rapidly, the milk will "whey" badly and tough, gassy curds will form which will be difficult to break up during the process of churning, and the resulting product will have an undesirabe flavor and not be easy to dispose of.

Good buttermilk is very popular and is in great demand. The supply is not always adequate. It is a splendid food for invalids as well as a healthful one for those who are well.

W. H. Underwood.

CARE AND BENEFITS OF THE MILKING MACHINE.

To the Editor of The Homestead:

The milking machines of this part of the state are working a great revolution in the dairy business. The older machine which was introduced soon went out and for various reasons proved unsatisfactory, but the machine that was introduced about eighteen months ago proved entirely satisfactory and every farmer who has the machine is a booster for it.

This is one of the greatest dairy centers of America. My work calls me to the homes of many farmers and all speak with universal praise of this type of machine. On account of its simplicity a ten-year-old boy can operate three machines at once, these having the capacity of about five men.

The machines cost $40 each and the engine to run them costs $40. The average farmer has two machines at $40 with one engine to operate them, bringing the total cost of his milking outfit to $120. These outfits have a small wooden bar running the full length of the barn and are so arranged that the machine can be changed quickly from cow to cow, not being necessary to change the cows as it was with the older type of machine.

The illustration shown herewith is that of a part of the buildings on the farm of V. A. Briggs, one of the firm of Briggs Bros., Seward, Neb., owners of one of the best herds of Durocs in the country. Their annual sales are of interest to all Duroc men, and among the best each season. They will sell boars at private treaty. Write them.

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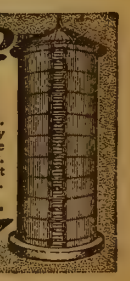

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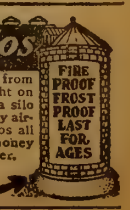

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WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

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I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

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Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

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WE NOW OFFER 30 HEAD
of registered Guernsey females and 8 May Rose bulls, 5 of them ready for service. Address
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The cost of upkeep is very slight, being only for tubing, as the machine is very simply and strongly built. The operating cost of the engine with three machines attached is only about one cent per hour. The machine is easier on the cows than hand milking, and kicking cows that could hardly be milked by hand, stand quiet and look surprised, not knowing what to do.

The use of the milking machine enables the farmer to keep a larger herd and still work longer in the field. It transforms drudgery into pleasure and makes it possible for one person to do the milking, which, heretofore, required the services of the whole family, leaving them free to attend to the other chores. It makes milking more sanitary. The parts that need cleaning are easily and quickly detached so that they may be taken to the house and kept in some convenient place where they cannot get dirty after cleansing. The demand for these machines indicates that they are gaining in popularity. W. H. Ruther.

COWS, OLD AND YOUNG.

To the Editor of The Homestead:

The age limit of greatest usefulness has never been very definitely fixed for a cow. In men, one of the leading physicians of the country thought he had laid down a law which could not be broken safely that a man who reached sixty was done, so far as any work of a successful nature is concerned. But his arguments have all tumbled down in the face of facts presented by men who at seventy or even eighty have been doing the greatest things of the world.

I suppose most men would argue that the cow which has come to the age of eight years is at her prime and should not be kept much longer. But on our farm we have at the present time a Jersey cow which has reached the age of thirteen and is still doing good work. For a number of years we have thought this would be the last season we could keep her, but she raises such fine calves and gives such good milk and in such plentiful supply that we have kept her on and on to her present good old age.

I milked this cow this morning, and could not help wishing we had several more as good.

Now, the age of the other extreme of life when a cow begins to be really useful is quite poorly defined. I have seen heifers at three or four that seemed to be as good as they ever were. The fourth year is called by many the poorest year of all. These men say you cannot tell what a heifer will be till she has passed that year. And yet, I have heifers in my herd now that at two are surely proving that they will be some day very valuable members of the herd. It is true that other heifers do not develop quite as early. Some never get to be worth keeping.

Because of this element of uncertainty in young cows, there are a good many farmers who would rather buy their cows all matured and with established reputations. I have a brother-in-law who never thinks of raising a cow. He says it costs too much, and then you do not know after you have raised your cow what she will turn out to be. So when he wants a cow he steps out and buys her.

There is some grain of satisfaction to me, however, in watching the development of the cows of my herd from the little calf up through. When I get a cow of that sort I know her in all her ways; and, what is quite desirable, she knows me. This mutual understanding is, as I look upon it, a very desirable matter.

But the range of usefulness does in the most of cases lie between three and ten years of age. The cows younger than three or older than ten which are really worth keeping in the dairy are the exception and not the rule. E. L. Vincent.

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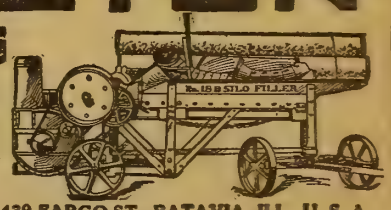

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POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

CARE OF TURKEY POULTS.

To the Editor of The Homestead:

The turkey is undeniably the aristocrat of the poultry family. There is enough of the wild in their nature to cause them to be fairly fascinating to me. A turkey hen was my first possession when so small that I could hardly carry the pan of sloppy corn meal which was fed in common to all the poultry about the place. At that time young turkeys could be raised by chicken hens or almost any way and if they lived to "shoot the red" you could almost surely count on raising them to maturity. In nine cases out of ten it is a different story today.

If the weather is warm and dry when the poults are hatched the safer plan is to permit the mother to take her brood directly to the pastures. Contrary to the popular belief, she does not "drag the baby turks about in the wet grass"—far from it. Just watch her. She glides along quietly and slowly, now stopping and sitting down and with the peculiar call of a mother turkey brings her downy chicks under her wing, permitting them to rest ere going farther.

And just watch the way she has them feed; a bug here, a worm or seed there, with some time between whiles. It is certainly nature's own way and worthy of imitation by people as well as fowls.

If hatched while the ground is damp and cold it is necessary to confine the hen and poults for two or more weeks, though I have found that two weeks is about all the confinement they can stand. A pen made of boards one foot wide will restrain the poults, giving the hen her freedom to go and come at will.

A wide board across one corner of the lots affords shelter and they prefer this kind to being confined in a coop.

The feed consists mostly of cottage cheese made from sour milk and squeezed dry and also of onion tops chopped fine. After the first week a little commercial chick feed is added or stale bread dipped in sweet milk and squeezed dry. They are very slow about learning to eat and at first require more care than chickens.

Lice are young turkeys' deadly enemies and will kill them off in a small fraction of the time it would take to deplete a flock of chickens. Dust lightly with insect powder and if really necessary rub a very little vaseline on their heads, around the vent and on the second joint of the wings. The wing is the place where the parasites bunch up and on otherwise seemingly "louseless" turkeys will be found to have them standing head down, so thick that not another one has room to stand.

In confinement the feathers on the first joint of the wing grow so rapidly as to sap the bird's vitality. Every turkey raiser knows that the discouraging time begins when these little creatures begin to lift first one and then the other dragging wing. On the first joint of the wing are six quills. They may be pulled out, one at a time, with very little pain, or can be cut with a pair of sharp scissors. By the time they grow out again the youngster seems to have caught up with them.

Minnie G. Stearns.

SWISS CHARD FOR POULTRY.

To the Editor of The Homestead:

Something new? Well not exactly new, but I doubt if many of you have grown it or know its value. I had always thought I was keeping pretty well up with the times, but I have only recently learned to appreciate the Swiss chard.

Belonging to the beet family, it resembles a yellow mangel very much in its early growth, but it soon outgrows the mangels. The center ribs of the leaves begin to widen and thicken, until they become almost as large and fleshy as rhubarb stalks. These center ribs are much prized cooked and cut up in vinegar as you do beets, and the green leaves make "greens" fully equal to spinach, and they keep tender and sweet until fully grown.

While it is fine for cooking, it is not for table use that I have found its greatest value. It is one of the very best summer greens for the chickens I have ever grown, and it can be cut continually by taking the large mature leaves. I am planning to have a small tank made for silage for winter use for my hens, and I think the chard will be a valuable plant for that purpose.

L. H. Cobb.

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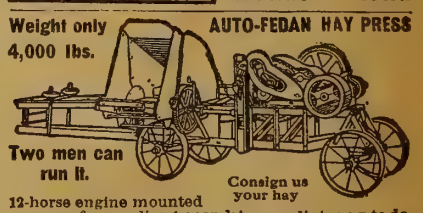

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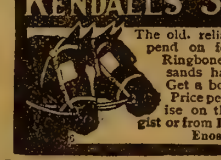

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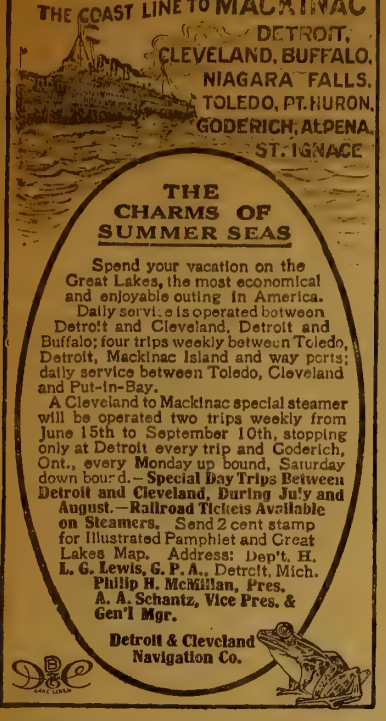

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

I do not believe we could possibly do better this week than to consider a story which recently appeared in one of our most worthy publications, The Youth's Companion. The moral is so obvious that but little comment on my part is necessary. We who have been brought up on the farm are apt at times to forget or to overlook its possibilities, the unlimited chances for growth, the pleasures which lie ready at our hand. I am sure that we will be more contented after we have read the following and considered well the all too-plain-moral:

"Oh, dear! It's good to get a breath of real fresh air," said Margaret Curzon. "And yet I hate the country—to live in."

"Do you?" a pleasant voice asked, incredulously. "Did you ever really try it?"

The two girls had met in a country railway station. Already, after half an hour, they felt well acquainted.

"I was brought up in the country," replied Margaret. "We moved to the city only a few years ago."

"Why do you hate it?" asked Ruth Evans.

"It was so limited. There was no high school within reach and I had no chance for a real education. They couldn't afford to pay a minister, and we only used the church a few weeks in the summer. There was no place for amusements, and no fun going on anywhere. A girl had no chance to make any money for herself. Father and mother were satisfied, but for a girl——"

"Weren't there any other young people?" asked Ruth.

"A few, but they hadn't any spirit." Then Margaret added, "Do you live in the country?"

"Yes, and I love it," Ruth said. "But we were lucky. It's a dear little place we're in, nestling right under the mountains. To be sure, it's small, but we're happy there. I was like you. I wanted a high school education and didn't get it. I was sickly till we moved into the country. It wasn't too late then, but there was no high school. The country made me strong, though. What's the good of a school with a brain and body that won't let you study? I got the health and then I made the school myself."

"How?" Margaret asked, with interest.

"I got the young people together and we started the Launch Out Club. Every member had to launch out in some little enterprise that would make money to buy books. We applied to the department of agriculture for pamphlets that would help us. I had an outbuilding made into a pigeon house and sent squabs to market. Some raised hens; one girl bred a fine strain of ducks; another concentrated on cauliflowers. We soon had enough money to buy books for a course of reading. Then we read. We've done a lot since. We open the church every Sunday and have simple, helpful services. We have sports and entertainments and a village improvement society. We have made the houses ever so much prettier. The one we bought had plenty of possibilities. Oh, I believe this is your train."

"Yes. I'm sorry to go. But if you'd lighted on Gilead, where I was born, you'd tell a different tale. Your village has some life in it. Good-by."

"Gilead! Gilead!" Ruth ejaculated. Gilead in Vermont? Why that's where I do live. You must tell me your name before you go."

"Margaret Curzon."

"Why! It's the Curzon place we bought—your house. And oh, it had such possibilities!"

The train was moving.

HOME AND HOMEMAKING.

SOME FAVORITE RECIPES.

Coffee Cake.—One and one-half cups of sugar, three-fourths cup of butter, two cups of flour. Mix these ingredients, take out one cup and reserve it for the top of cake, then to the balance add three-fourths cup of sweet milk, two eggs, one teaspoon vanilla, add one-half cup of flour with two teaspoons of baking powder; put in a flat pan, sprinkle the cup of dry ingredients you reserved for top; add one-half teaspoon cinnamon and sprinkle over the top of cake before you place it in the oven to bake. Bake forty minutes.

Veal Loaf.—Three pounds veal, either the part used for stew or neck, one-half pound fresh pork, four crackers pounded fine, three tablespoons sweet milk, one egg and two tablespoons butter. Put meat through food chopper, add other ingredients and also pepper and salt to taste. If green mango peppers are at hand they may be used instead of ground pepper and give a delicious flavor. Make into loaf and bake about one and one-half or two hours. Add some water before putting in the oven. Baste with melted butter and hot water.

Carrot Marmalade.—One dozen raw grated carrots, one cup sugar to each cup carrots, strained juice of three lemons, one teaspoon powdered cinnamon, one teaspoon powdered cloves, one teaspoon allspice. Mix the grated carrots with the sugar and allow to stand over night. In the morning add the lemon juice and the spices. Cook slowly for one hour. If the spices are omitted it is similar to orange marmalade.

Piccalilli.—One peck green tomatoes, one head cabbage, two stalks celery, eight large onions, three red or green peppers. Chop all this fine and mix with one cup of salt. Let stand over night. In the morning dash off all the liquid, then take two quarts of vinegar, one pound brown sugar, one-quarter pound mustard seed, two tablespoons cinnamon, two tablespoons ground black pepper, one tablespoon allspice, one tablespoon cloves, two tablespoons ginger, one-quarter teaspoon cayenne pepper. Put spices into sack and let boil altogether for thirty minutes. Stir often to prevent scorching. Seal into jars or keep in open crock.

Rice Custard.—Cook in a double boiler until soft, two and one-half cups milk, pinch of salt and one-quarter cup rice. When thoroughly cooked add to it the yolks of two eggs beaten with two tablespoons of granulated sugar. Remove from fire at once, flavor with lemon or vanilla and pour into a dish. Spread over the top the beaten whites of two eggs mixed with two tablespoons pulverized sugar and brown in oven. This pudding should be creamy, not thick, and proportions should be accurate.

Nut Bread.—One egg, one cup sugar, one cup milk, four cups flour, four teaspoons baking powder sifted four times, one cup chopped nuts, one cup seeded raisins; stir five minutes; let rise one-half hour; bake in slow oven.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

THE STORY OF KIO.

(First prize.)

I have a very queer little pet. It is a little coyote. Our neighbor found the den and dug out three. They kept two, and gave me one.

It did not have its eyes open when I got it. I had to feed it with a bottle at first. Then we put it with the old cat and her kittens.

She thought it was a big, nice kitten, I guess, for she would lick him and pay more attention to him than to her kittens. He looked so funny getting his dinner with the kittens. He still sleeps with the kittens, but plays about the yard in the daytime. He is six weeks old, and about half as big as a cat. His name is Kio and when we call him he comes a-running.

He likes to play with the kittens, but sometimes his play is pretty rough. He gets mad at the old cats sometimes and whips them, but most of the time they get along just fine.

When we want him to howl, we imitate a wolf's howl. He will hold his nose straight up in the air, open his mouth as wide as he can, and just yelp. He looks so comical.

If he becomes too troublesome, as he grows older, we will have to send him to some park, I guess, because I couldn't stand it to have him killed, for I think him the sweetest little pet I ever had. —Zenith, age 10.

Along The Trail.

(Second prize.)

Whenever we go to the woods we like best to go along a place known as

Get Your Canadian Home From the Canadian Pacific

WE will make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will *make you independent*.

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Rich Canadian land for from $11 to $30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

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The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle sheep and hogs up to the value of $1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

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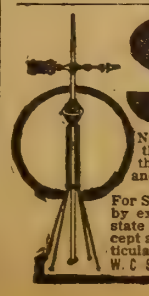

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the Indian Trail. The trail is a path made long ago by the Indians as they journeyed through the woods, but it is now used by the white people.

The path is only wide enough for one person to walk in at a time, so everyone goes single file. At one place recently two landslides washed away part of the trail, so that part of it is now replaced by a path made by the white people.

The path divides in one place and goes down almost to the edge of the river. This part was used long ago by the red men on hunting expeditions when the river bed was farther north than it is now.

The trail is covered at the side by trees, and at one point it descends into a hollow where a big cave is. This cave is filled with water during the time of spring rains.

The trail, altogether, is over a mile long and goes over many beautiful hills, descends into little valleys, cuts around rocks and boulders, and at last disappears in a ravine caused by a brook.

The brook flows away to join the river, but the hill bears on its summit a log cabin, built by the settler, evergreen trees set out by him, and a well he had dug and plastered with stones.

When anyone comes to our town and wants to go to the woods, we show them the trail, tell them the stories connected with it and have a game of "Indian War" before going home. —Carol.

Country Life.

(Third prize.)

Country life is the most beautiful life there is in the world. If people would give the farm the chance they give the town, the farm would be the most beautiful place on earth.

In town or city you can see beautiful houses and all kinds of costly things, while on a farm most of the houses are log or common box houses.

If the money that is spent in the city home was placed on the farm, there would be more people willing to be farmers. —Blue Eyes, age 16.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

3d Quar. Lesson 1, Ex. 1, 8-14; 22, 2-19. July 6, 1913.

THE CHILD MOSES SAVED FROM DEATH.

Some one has likened the eleventh chapter of Hebrews to a tall obelisk graven with the name of the Heroes of Faith. That Egyptian column, brought at such expense from the banks of the Nile, and set up in Central Park—not one in a million can read its hieroglyphics, and it is fast crumbling away; but this obelisk is imperishable; it is intelligible to even a child: In all this shining catalog the most brilliant name is that of Moses. The faith of Moses was antedated by the faith of his pious parents. It is written: "By faith Moses, when he was born, was hid three months of his parents because they saw he was a proper child, and they were not afraid of the king's commandment." It was something more than mere natural affection which impelled them to this act. It was borne in upon their minds that this child of uncommon physical beauty and precocity was to break the galling yoke of bondage, and lead God's people from the brick kilns of Egypt to the highlands of Canaan. They believed this. They wished God's purpose fulfilled. Loving and fearing the King of Heaven, they despised and feared not the king of Egypt. Though his cruel soldiers, with drawn and glittering swords, patrolled the streets, and though instant death was the penalty of disobeying the king's commandment, they were not afraid. For three months they successfully hid the babe in the deepest and darkest recess of their lowly hut. But further secrecy was impossible. The child's cries were too lusty. Suspicion was already aroused. The envious gossips were at work. We may see those parents toiling at night—weaving a basket out of long ribbons of the papyrus making a tiny mattress, and tucking the beautiful babe into his strange cradle, which was to be rocked by river's wave instead of mother's hand. The parents used their best judgment at the same time they exercised their faith. The papyrus is said to be offensive to the crocodile. Hence, the child was comparatively secure from that great danger. He was put afloat upon a river which the Egyptians worshiped, and, found there, would be esteemed sacred as the gift of the river god. He was placed where Pharaoh's daughter was accustomed to bathe, with the hope that he might fall into her hands, and the little tactful sister was stationed to watch, and use the strategy of calling a Hebrew nurse if opportunity afforded. Having done all they could, they waited in confident faith for God to bring it all to pass. And they were not disappointed. See the Divine providence—God in history! He just picked the babe out of the river and put him in Pharaoh's palace—to make spoil out of the wisdom and wealth of Egypt, that he might the more easily deliver Israel. But who does not see that one of the turning points in the history of God's ancient people was the faith of Moses' parents? The destiny of the child, the destiny of the nation, turned on the piety of the parents.

Woman's Building for Iowa Fair

By May McPheeters Smith.

THERE is a well-defined movement among the women of Iowa to get together, to assemble at the state fair grounds and there plan and inspire a crusade whose sole purpose shall be to save the babies. The statement that one-fifth of the babies born fail to live through the third day and that one-half of the remainder die before they reach maturity, or twenty-three years of age, that the number of epileptic and mentally deficient children are increasing, has aroused the women to an educational campaign whereby they hope to reach all women in their efforts for the conservation of human life. Much has been said and written of "race suicide," but the real problem is, and always will be, to preserve that which by the very mystery of nature is produced and to rear to the fullest possibilities of moral, mental and physical perfection. Eugenics—the science of being well born—is a far greater factor in the perpetuation of a rugged race than the world has heretofore conceded. Give the little child the benefit of parents physically fit and morally clean and the glory of its existence will be its birthright.

The child health contest held last year at the Iowa State Fair Grounds created a great interest in the welfare of the child. It was a clever thought to compare the babies physically. Spectators crowded the extremely limited space for a glimpse of the darlings. The result was a revelation. "Scientific motherhood" that had been the jest of ancestral parenthood strode forth with the winning ribbons. There was no use ignoring the fact that if a child could be raised in a hotel and yet be the most perfect baby in Iowa there was something in this new idea that human life could be improved upon scientifically. Statistics thus correlated were invaluable, but how to circulate such information was the serious proposition confronting the pioneer workers in the child-welfare movement. No building having been provided for women's activities and the subject being a vital one to all women, it was the consensus of opinion that the state should be asked to provide such a convenience for the fair grounds. The mothers congress and other women organizations interested themselves in the active legislative work and as a result the legislature appropriated $75,000.

The building as designed is a modern adaptation of the Italian villa style, with a court containing flower gardens and fountains surrounded by spacious verandas. It is happily suggestive of home with its proffered comforts of rest rooms, lunch facilities, lavatories and toilets. It is a feeling to cherish that the gentlemen of the legislature conceded no secondary arrangement for the women and children and gave a sum that would provide for comfort and pleasure consistent with other improvements deemed necessary to the success of various departments.

The child health contest will occupy a suite of rooms in which bath, heat and such conveniences as are necessary to the preparation of showing the child. The examination by the lady physicians will be made in a glass-enclosed room, around which visitors may gather and see the work as it is carried on. A large auditorium where lectures on all subjects pertaining to activities in woman's sphere adjoins. It is the plan to have a speaker for every hour in the day and every day's program full. A rural school, modern in every particular lighted shows the equipment necessary for the teaching of manual training, agricultural and domestic science, and such other work as advised by the rural school commission. Parents who have long lamented the meager advantages offered in the country school will find inspiration and information for their improvement. A day nursery, where little folks may be left in the care of trained nurses, with clean cots for the afternoon nap, and a screened-in porch and a net-enclosed playground on which will be sand piles, will afford entertainment. A pleasant dining hall will be located in the basement where it will be cool and sanitary.

This movement originated in our own state has been heralded the world over as the "Iowa idea." "Getting together over the children," what a beautiful message to send forth! Surely every woman in Iowa will want to attend the state fair this year to enjoy this new department.

FARM METHODS.

The above is the title of an admirable book prepared by Dr. W. A. Taylor, director of John Deere's Soil Culture Department. This volume contains the very latest word on all phases of soil culture and crop production. Although the elementary principles underlying agriculture are set forth with much clearness for the benefit of the beginner, yet in every case the relation of these principles to everyday farm practice is ever kept clearly in mind by the author.

This volume goes somewhat into detail in the matter of fertility problems, more especially as these are dependent upon sensible rotation and upon the wise use of commercial and home-made manures. In a discussion of the various crops detailed information is given on every phase of soil preparation, method of seeding, amount of seed to use and indeed such enlightenment is imparted as to enable even the man without previous knowledge to hew very closely to the line of success in crop growing.

An important part of this volume is given over to the discussion of live stock topics, while the farm garden and the farm home are likewise included in the important list of subjects discussed. The concluding chapter of this volume gives a most helpful table of the amount of seed to use in the case of all the principal crops grown on the farm and in the garden.

It is the intention to place this volume in the hands of the farmers of the corn belt at the nominal charge of twenty-five cents per copy and those interested in same should send this sum to Deere & Company, Moline, Ill.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending June 29, 1913:

Under the combined effects of high temperatures, bright sunshine, and sufficient moisture corn has made exceptionally rapid growth, and much of it is now up to the average stage for this time of the year. Probably a third of the crop in the southern counties has been laid by in good condition. High temperatures have been continuous; the average daily excess being about 6 degrees, and during the last four days the maximum readings were above 90 degrees. General and in many localities, heavy showers occurred on the night of the 24th and 25th; the greatest amount being over the southern and extreme northern counties, where they ranged from one to more than three inches. Winter wheat and rye are beginning to ripen in southern and central counties, and the harvest will begin during the coming week. Reports vary as to the condition of oats, but over the larger part of the state, both the straw and heads are short. In most cases they are, however, filling fairly well. In many localities small grain was badly lodged by the wind squalls accompanying the thunderstorms on Tuesday night. In the vicinity of Pocahontas and Cherokee counties small grains, and especially oats have been seriously injured by dry weather. Haying is in progress, and the crop is being secured under favorable conditions. Potatoes and pastures are still doing well. Apples continue to drop badly.

The small gasoline engine is a good friend to have around on hot days when the wind refuses to turn the windmill, but care should be used in buying. The stubbornest thing on earth is a "balky" gasoline engine.

Save $50 to $300

I absolutely guarantee to save you $50 to $300 on any Galloway gasoline engine. Made in sizes from 1 3-4 h. p. to 15 h. p. My famous 5 h.p. engine —without an equal on the market—sells for $99.50 for the next 60 days only! Buy now! Same size costs $225 to $300 through your dealer. Think of it! Over 30,000 Galloway engines in use today. All sold on same, liberal, free 90 Day Trial Offer I make you—and all giving satisfaction. Isn't that proof enough?

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CARLTON MFG. CO., MASON CITY, IA.

Pop Corn Wanted

WOULD buy for cash from growers a few car loads of 1912 crop white rice pop corn. State quantity, quality and price wanted.
B. B. Clapp, 545 Laurel Ave., St. Paul, Minn.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., OF THE HOMESTEAD.
Published Weekly, at Des Moines, Iowa, required by the Act of August 24, 1912.

Note.—This statement is to be made in duplicate, both copies to be delivered by the publisher to the postmaster, who will send one copy to the Third Assistant Postmaster General (Division of Classification), Washington, D. C., and retain the other in the files of the postoffice.

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Assist. Bus. Manager.

Sworn to and subscribed before me this 27th day of June, 1913.
THOMAS E. COX,
Notary Public in and for Polk County, Iowa.
(My commission expires July 4, 1915.)
(Seal)

The Gasoline Engine on the Grain Binder

By C. K. Shedd, Iowa Agricultural College.

ONE of the important uses of the small gasoline engine on the farm during the summer is to aid in harvesting the grain and corn crops. The engine may be attached to the grain or corn binder in such a way that the engine drives the binder mechanism. Two horses then are usually sufficient to haul the machine.

An instance of the profitable use of the gasoline engine in this manner came under the writer's observation a few years ago in Nebraska, when there was a good deal of rain during the harvest season. Forty acres of very heavy winter wheat was saved in this way where the ground was so wet that the horses mired down ankle deep in nearly all parts of the field. In some places water was standing over the ground. The ground was not tile drained and would not have dried sufficiently to use the binder in the usual way until the wheat had been seriously damaged and perhaps lost, entirely due to overripening.

There is a great deal of land in Iowa that is likely to be too wet at harvest time to operate a binder successfully. On such land a small engine attached to the binder will soon pay for itself. The same engine may be used for numerous other small power purposes during the remainder of the year.

The engine attached to the binder is sometimes used even where the ground is hard enough so that power can be taken from the bull wheel without trouble, the idea being to save horses. Two horses and the engine will do the work which requires four horses without the engine. When there is a shortage of horseflesh on the farm at harvest time, the use of the engine in this way may be very profitable, especially if the operator is skilful, taking care of the engine and other machinery so that he is not likely to have trouble with breakdowns or with a balky engine.

There are some difficulties to overcome in using an engine on a binder. The weight of the engine will throw the binder frame out of balance. The engine is usually attached to the rear of the main frame and its weight is counterbalanced by placing the water cooling tank on the tongue of the binder. It is easier to accomplish this if the binder is equipped with tongue trucks.

Another difficulty is that the vibration and weight of the engine are a rather heavy strain on the binder frame which was not designed to carry this load. Bolts in the binder frame are apt to work loose quickly unless carefully watched.

Both of the above-mentioned difficulties have been partly overcome by one manufacturer by mounting the engine on a two-wheel truck which is pulled behind the binder. The binder is driven through a tumbling rod and universal coupling similar to those used on the horse power, only smaller.

In selecting an engine to attach to a binder it is important to select an engine that is light in weight. It will take an engine of three to four horse power to operate the binder mechanism in heavy grain. There are on the market now engines of this size which weigh about 200 pounds. In order to get as much power with as light weight the engine must run at a rather high speed. It must, therefore, be carefully built. The cylinder, piston, and bearings must be ground to a smooth surface and a true fit to reduce wear and prevent leakage of gas.

If a farmer is handy with tools, he can make brackets to fasten the engine to the binder and secure sprocket wheels and chain to connect the engine to the binder mechanism. It is generally much cheaper and better, however, to purchase the binder attachments parts complete from the manufacturer of the engine, when this is possible.

Ask your neighbor to subscribe for The Homestead.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5446 Ladies' Dress.—A pretty dress made in simple fashion, but extremely stylish is given in this model. The frock has a separate guimpe and is made with a five-gored skirt having inverted plait or habit back. Linen or serge can be used to make this dress.

The pattern 5446 is cut in sizes 32 to 42 inches bust measure. Medium size requires 5¼ yards of 36-inch material and 1½ yards of 36-inch material for the guimpe. Price of pattern ten cents.

6112 Misses' and Small Women's Dress.—This dress is just the thing for the schoolgirl. It is made with a three-gored skirt which can be made with either the empire or regulation waistline. It can be made with either the long or short sleeves. Any of the wash materials can be used to make this dress.

The pattern 6112 is cut in sizes 14, 16 and 18 years. Medium size requires 4 yards of 36-inch material with ¼ yard of 24-inch satin for the cuffs. Price of pattern ten cents.

5999 Ladies' Combination.—This model represents a dainty combination suit consisting of corset cover and open drawers. It is a becoming and comfortable garment. The combination may be quite plain or may be as elaborate as the taste of the wearer may desire.

The pattern 5999 is cut in sizes 32 to 42 inches bust measure. Medium size requires 3⅜ yards of 36-inch material, 1⅜ yards of insertion, 4¼ yards of narrow insertion and 3 yards of edging. Price of pattern ten cents.

5838 Boys' Knickerbockers.—The mother with a growing boy to dress will appreciate the simplicity of this knickerbocker design. The trousers can be made with or without a fly and are finished with leg bands or elastics. Wash material may be used or cashmere, mohair or serge.

The pattern 5838 is cut in sizes 4 to 14 years. Medium size requires 1⅝ yards of 36-inch material. Price of pattern ten cents.

5470 Children's French Dress.—This dress is made with the body and sleeves in one piece. It is made with a low square neck and short sleeves. Lawn, challie, cashmere or silk can be used to make this dress.

The pattern 5470 is cut in sizes 2, 4 and 6 years. Size 4 requires 1⁷⁄₈ yards of 18-inch all over, 2⅛ yards of flouncing 8 inches wide and 1⅜ yards of insertion. If made of one material it will require 1½ yards of 36-inch material. Price of pattern ten cents.

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FOR SALE BY OWNER
Red River Valley Farm
IDEAL 612-acre potato, corn, small grain and dairy farm with $10,000 farm equipment, including new gas tractor, plows, separator, 14 horses and 30 grade Jerseys; 100 acres timber; farm fenced. $8,000 worth new buildings, consisting of 10-room modern house, with furnace; large hip-hoof barn, small dairy barn, machine shed, 7,000 bu. granary with grain-lift, ice house with refrigerator rooms, chicken house, 2,500 bu. potato cellar, and 3,000 bu. roofed corn crib. Good well and windmill. 500 acres now in crop. Reason for selling: My duties as U. S. district judge prevent my giving farm proper attention.
This farm is beautifully situated high and dry on Red River, 3½ miles from station in best portion of Red River Valley of North Dakota; 10 miles north of Fargo, city of 18,000 with several colleges including state agricultural college. Price $100 per acre, including crop and above equipment. Reasonable terms. Only responsible persons need apply.
C. F. AMIDON, FARGO, NORTH DAKOTA

Beautiful Glen Lawn Farm
320 ACRES in Fremont Co., Iowa, 35 miles south of Council Bluffs, for sale at a bargain. Owner is not a farmer and wants to sell, 25 acres bearing orchard, 240 acres in cultivation, balance pasture and woodland. $15,000.00 worth of improvements. Easily worth $175.00 per acre. $150.00 per acre will buy it. For further information write or call on
HART-EVANS,
204 STATE BANK BLDG., OMAHA, NEB.

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A Pleasanter Country
than the high-priced lands farther South. So cheap! So easy to buy of us.
Aitkin County, Minnesota
This is where you ought to locate. Write for Descriptive Folders and Maps. **Land Agent, C. R. I. & P. Ry. Co., 116 Wolvin Bldg., Duluth, Minn**

AUCTIONEERS
LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

WANTED Good tenants for good farms well improved. Southeastern Saskatchewan, Canada. Lease one to ten years. Grain or cash rental. **The James Porter Co., 2100 Aldrich Ave. So., Minneapolis, Minn.**

SOUTHEASTERN KANSAS
IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. Address **SEWELL LAND CO., Garnett, Kan.**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. N[illegible]ETTE, Salina, Kansas

MISSOURI FAR[illegible] stock land anywh[illegible] Fulton Real Estate A[illegible]

No better grain and [illegible]e for list and prices. [illegible]lton, Missouri.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

July 29-30, D. R. Hanna, Chicago, Ill.
Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.
Oct. 24, Leigh & George, Aurora, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 15, Escher & Ryan, Botna, Iowa.

Percheron Horses.

Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Poland China Swine.

Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, Pfander & Sons, Clarinda, Ia.
Aug. 19, Alvin Windom, Nodaway, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, A. Kool, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Powers, Aurora, Neb.
Oct. 13, Frank Roberts, Earlham, Iowa.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 24, R. R. Blake, Dallas Center, Ia.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Hampshire Swine.

Oct. 14, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

The advertisement of A. De Boer, Pella, Iowa, offering Fox Terrier puppies for sale will be found on page 10 of this issue.

W. S. Huber, Tipton, Iowa, is offering for sale pure-bred Fox Terriers of both sexes at the liberal price named in his advertisement on page 10.

W. H. Barr & Son, Elliott, Iowa, advertise some good Poland China boars for sale on page 18 and also some choice sows bred for fall litter. Send them an order for some of these at once and we know you will be satisfied.

Potato raisers are not equipped for the conduct of their business unless they are supplied with sprayers such as those advertised on page 6 of this paper. The advertisers also sell Paris green and other spraying materials and will be pleased to quote prices. Address Ketchum & Gaston Co., Marshalltown, Iowa.

Kalamazoo silos are advertised on page 8. They are sold at reasonable prices with freight charges prepaid. The whole story may be obtained by addressing a request for catalog to Kalamazoo Tank & Silo Co., Dept. 26, Kalamazoo, Mich.

Will Thompson, Jesup, Iowa, advertises Duroc Jersey fall boars on page 17 of this paper. He advises us that they are of popular lines of breeding, that they have size, quality and general excellence. Write him for prices and full information.

A recently published book on the subject of silos tells all about the Lansing and calls it a big, safe, easy-climbing silo and the one that has good doors and other high qualities. See advertisement on page 8 and for copies of the book address Woods Bros. Silo & Mfg. Co., Dept. 18, Lincoln, Neb.

Everybody bales hay nowadays so about the only thing to be considered is which machine is best adapted to the purpose. The Ertel Cyclone advertised on page 6 offers a valuable suggestion. Full facts with reference to the Ertel may be learned by writing to Geo. Ertel Co., 384 Kentucky St., Quincy, Ill.

This office is in receipt of a copy of Volume 25 of Red Polled Herd Book for 1913. This publication shows that the Red Polled Cattle Club of America is progressing and that its members are making extra effort to forward the interest of their chosen breed. The book sells for $1.75, postage paid. Orders may be forwarded to the secretary, H. A. Martin, Gotham, Wis.

M. G. Arnold & Son, breeders of Poland China swine, Strawberry Point, Iowa, writes: "Our big-type Poland Chinas are coming fine. We were fortunate in saving large litters of big, growthy, smooth fellows. We have fifteen November boars and ninety of spring farrow, all doing fine, sired by Orange Boy and A Wonder Special. We have had no cholera in this part of the state in ten years."

It is a bad plan to put off the purchase of any farm implement until the time comes for its immediate use. For that reason we urge our readers to become acquainted with the merits of the Blizzard ensilage cutter advertised on page 8 of this paper. Full descriptions, prices and important facts concerning ensilage may be learned by writing to the Jos. Dick Mfg. Co., 1472 Tuscarawas St., Canton, Ohio.

The general excellence of the hay crop throughout the country will test the facilities of the farmer to get it properly cured and without damage from weather. It is worth while to have on hand stack covers such as those advertised on page 11 of this paper. The importance of the waterproof Slickerine may be fully learned from a free booklet for which write to Slickerine Co., Box 79, Dept. 7, Peoria, Ill.

J. J. Castle, Inwood, Iowa, breeder of Duroc Jerseys, reports 125 head of good spring pigs on his place, and all doing well. He has some good litters by Crimson Indicator, a boar formerly owned and used by O. S. West, Paullina, Iowa, a good litter by Happy Secret and another good litter by the noted boar, Col. Gano. Mr. Castle will have some good boars for the trade the coming fall and will be pleased to have those wanting boars to call and inspect his herd.

George Redhead, Des Moines, Iowa, has a herd of Jersey cattle which stands high in all those things that go to make the Jersey profitable. He has for sale a few females at reasonable prices and for a short time is making especially low figures on bull calves to be shipped in crates. Mr. Redhead operates a practical dairy farm, so that all his cattle are the useful sort. Some of them are of the most popular lines of breeding. Write him for prices. See advertisement on page 9.

Every farmer knows that the storage of grain for any length of time has meant not only a deterioration in value because of dampness or moisture, but because of loss from rats or wasteful means of storage. The Northfield steel bin advertised on page 6 eliminates all those difficulties. It saves more than its cost every year. It is sold on a thirty-day trial and satisfaction guaranteed. For catalog, samples of sheet metal, prices and easy terms address Northfield Iron Co., 118 Water St., Northfield, Minn.

Tme first subject which is apt to come up when two farmers meet is the inability to obtain farm help. This fact calls for the exercise of judgment in obtaining machinery which shall reduce the amount of labor required. The Little Giant elevator advertised on page 2 is one of these means and one of the best of them. By its use the scooping of corn from the wagon to the crib may be entirely done away with and without any hard work or loss of time. It is valuable for other purposes, all of which may be learned by writing to Portable Elevator Mfg. Co., 155 McClun St., Bloomington, Ill.

The near approach of harvest time demands that every means be taken to forward and facilitate the work of the season. Ordinarily operating a binder or corn binder has been horse-killing work and slow at best. The advertisement of the Farm Cushman engine on page 7 presents a means of doing away with a large proportion of the hard work and getting the harvest out of the way quickly. A little four-horse-power engine weighing 167 pounds is attached to the binder and operated at a cost of but forty to fifty cents per day for fuel. It supplies all the power except that of simply pulling the binder. It would be well to learn all about this little engine and what it does. It will surely be a money-maker. For catalog address Cushman Motor Works, 2029 N St., Lincoln, Neb.

Genasco Ready Roofing is advertised on page 2. The principal material employed in this roofing is Trindad Lake asphalt. As a preservative nothing has greater value than natural asphalt. It is known that it was employed in the most ancient structures now known to history. It is not only a preservative, but it is a water-proof agent which may be employed in foundation walls, floors, tunnels or any masonry. Samples of Genasco roofing with a book which gives a lot of still further important information on the subject of asphalt may be obtained by writing to Barber Asphalt Paving Co., Philadelphia, Pa.

A most interesting advertisement appears on page 11 of this paper. It announces that young men who are willing to take up farming in earnest may obtain Canadian lands at the price of from $11 to $30 and that they may, in addition, secure a loan of $2,000 with which to make improvements on the land, the whole to be paid for in twenty years, and at only 6 per cent interest. This is an extraordinary offer It affords an opportunity which thousands of men will be glad to take advantage of. Complete information with reference to this splendid offer may be obtained from J. F. Thornton, Colonization Agent Canadian Pacific railway, 112 W. Adams St., Chicago, Ill.

Buying a Silo from the Factory.

The advertisement of the Seattle silo on page 8 informs our readers why they may save a good proportion of the purchase price and at the same time obtain good silos by buying direct from the Seattle factory. Read the advertisement and for catalog giving full descriptions and price list address Hewitt-Lea-Funck Co., 480 Union Ave., Seattle, Wash.

Hanna's Big Short-horn Sale.

One hundred and fifty head of Short-horns will be sold at public sale at Chicago, July 29th and 30th by D. R. Hanna, Ravenna, Ohio. This is the practical dispersion of one of the big herds of the country, and one that for the past fifteen years has been a potent factor in the rings at all the big shows. Some very sensational show and breeding cattle will be submitted to the public at this sale, and the catalog should have wide distribution. File your application for one today with John Garden, manager, Ravenna, Ohio, mentioning The Homestead and watch the columns of this paper for farther particulars.

A Tire-Saving Device.

The advertisement of a Tire Cut Filler on page 7 provides for automobile owners a means by which they may extend the service and the life of tires quite considerably and reduce tire expense 30 per cent. Tire Cut Filler is a preparation that is self-vulcanizing, semi-mastic, and non-inflammable. It comes in collapsible tubes and is squeezed into the cut or into the tire filling it completely and when left over night hardens and becomes a part of the tire, restoring it to its original usefulness. A trial tube may be obtained by filling out the coupon in the advertisement, enclosing $1 and sending to the National Rubber Co., 4448 Papin St., St. Louis, Mo.

Thyne Bros.' Poland Chinas.

One of the good herds that deserves more than a passing notice is that of Thyne Bros., Doon, Iowa, who own two good herd boars in Long Prospect and Thyne's Longfellow. These breeders have some outstanding good spring pigs by these two boars, and they have some splendid brood sows in the herd that are daughters of the old boar, Long Prospect. They have some good fall boars for sale and will book orders for spring pigs at any time. You can buy a good boar from these breeders at a reasonable figure and their herd is bred along strictly big-type lines. When in their vicinity make it a point to see their herd, or write them for prices on those fall and spring boars. Kindly mention The Homestead when corresponding with them.

Iowana Berkshires.

Champion sires are in service at the Berkshire breeding pens at Iowana Farms, Davenport, Iowa, and Manager Thatcher was never so well situated to care for the wants of the buying public as at present. Over 700 spring pigs, the get of champion sires and from some of the greatest breeding sows in the country, are for sale at Iowana at this time. The Berkshires at this great breeding establishment have all been given the simultaneous treatment for cholera, and under the most severe tests there has never been an Iowana hog that has failed to prove immune. Anyone intending to buy Berkshires should certainly inspect the offering at Iowana Farms before making any selections. The advertisement will be found on page 18. Kindly mention The Homestead when writing.

Lionberger Makes Good Sales.

C. Lionberger, Humboldt, Neb., the well-known breeder of Poland Chinas, writes that he has had splendid trade as a result of his advertising in this paper. He has shipped hogs to Nebraska points, a number to Iowa and Illinois, and a herd foundation to Mr. Griffith, Prescott, Ariz. Mr. Lionberger raises good Polands, sells them at prices well in keeping with their real value and it is little wonder that readers of this paper are so quick to grasp the opportunity offered by him to secure for themselves good breeding stock. Mr. Lionberger still has a fall boar, one of the very best of the entire crop for sale at $50. This is not a high price for this boar, in fact, many, many boars of less value have sold for several times the price. He is worth this price to go into a good farmer's herd simply to sire market hogs, but he is the kind that breeders are in search of to head their herds. Better write about him if interested, as we know that he is a mighty good one. Mention this paper when you write.

McCandless' Hampshires.

On page 17 E. S. McCandless, Thurman, Iowa, begins his Hampshire advertisement and he always has some good boars and sows for sale. He is one of the oldest and best breeders in the West. Write him and tell him what you want and he will tell you if he can fill your order.

Chester White Fall Boars.

On page 17 John F. Holst, Jr., Denison, Iowa, advertises twenty-five splendid fall boars for sale and many of these will make choice herd boars. He also has a splendid lot of spring boars for sale. If you want the pick of his bunch you will have to write him at once. When corresponding with him kindly mention The Homestead.

J. O. James' Boar Offering.

If you want one of those good Poland China boar pigs sired by Ott's Big Orange and his other noted big-type boar you will have to write J. O. James, Braddyville, Iowa, at once. He has been having a splendid call for them and he still has some good ones left. Get in touch with him at once and kindly mention The Homestead. His advertisement appears on page 18.

Messer's Angus Bulls.

Any of our readers in need of an Angus bull should write or visit A. G. Messer, Grundy Center, Iowa. He has a good three-year-old Oakfield Earl, a grandson of Earl Eric of Ballindalloch, that is a proven sire of good calves. This bull cannot be used longer to advantage and will be sold worth the money. Then there is a good Eric bull sired by Blackbird Jack, a son of the noted Black Woodlawn, that will make some man a good bull. A yearling E. T. Duchess bull by Blackbird Jack is a big, strong, smooth bull. There are a few younger calves that are extra good sired by Blackbird Jack. See the advertisement on page 19 and write for any information, mentioning The Homestead.

Syverud's Poland Chinas.

One of the good bunches of spring pigs that we have seen in the Northwest is owned by E. J. Syverud, Inwood, Iowa. He has 125 head of good spring pigs, many of which are sired by his splendid yearling boar, Longfellow 195455. Mr. Syverud is not making any great noise about his pigs, but he has some that are just as good as you will find in any herd, and this boar Longfellow that heads his herd is one of the very best that you will find in that section of the state. Breeders visiting northwestern Iowa herds should make it a point to see this herd and get your eye on this good herd boar. Later in the season Mr. Syverud will have some good boar pigs to offer the breeders, sired by this good boar.

Faulkner's Spotted Polands.

H. L. Faulkner, Jamesport, Mo., has never had such a call for spotted Poland Chinas as during the past two months and the shipment have been to buyers in Indiana, Illinois, Iowa, Nebraska, Kansas, Oklahoma, Texas and Kentucky. All fall boars are sold and the greatest string of fall gilts ever bred at Highview Farm are being reserved for the February 11th sale. Just now Mr. Faulkner is making a special drive on spring pigs by Brandywine, Big Jim, Lucky Judge, and Good Enough. These are March and April pigs from the greatest sows in the herd. Mr. Faulkner has had a big inquiry on these and early orders will get the benefit of the pick. Note page 18 for Mr. Faulkner's advertisement and order now if you want some of these early spring pigs.

Ficke's Durocs.

Hugh M. Ficke, Long Grove, Iowa, has one of the good herds of Durocs in eastern Iowa. A representative of this paper recently looked over the herd and was impressed with the size and smoothness of the breeding herd. Mr. Ficke has 140 spring pigs that look mighty good. They are sired by several different boars. Among them is a fine litter by Cherry Chief and others by Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and about seventy-five by Mr. Ficke's great breeding boar, Premier Gold Bond, by Gold Bond by Golden Rule, the noted sire of prize winners. The male pigs are for sale at reasonable prices. Mr. Ficke has ten extra large, smooth, growthy, heavy-boned fall boars for sale sired by Premier Gold Bond. Mr. Ficke has the right blood lines in his herd, he is a good caretaker and our readers will find him a gentleman in every respect. See his advertisement on page 17 and write him your wants, mentioning The Homestead.

Lightning Rod Protection.

Practical experience and the investigation of scientists have established the fact that in order to avoid loss by lightning all buildings should be protected in some manner. The more common practice is by lightning rods. There are all kinds of lightning rods and some of them better than others. The Shinn rods advertised on page 11 are claimed to belong to the latter class. There is every reason why they should do so because they are manufactured on scientific principles of materials best adapted for conducting the electric fluid and disposing of it in a harmless manner, and put up by expert workers. That leaves little more to be asked. A testimonial to the popularity of the Shinn rod is given in the fact that during the month of June, 1913, the factory shipped out more lightning rods than it did during the entire first year's business. The Shinn factory is now running night and day and it is making every possible effort to fill orders promptly. The present season calls for lightning protection more than any other during the year and it is important in particular

that hay barns and new buildings be rodded immediately. Particulars concerning the extraordinary guarantee and the low prices at which the Shinn rods are sold may be obtained by writing to W. C. Shinn, 100 16th St., Lincoln, Neb.

Dunbar's Chester Whites.

On page 19 W. H. Dunbar, Jefferson, Iowa, begins his Chester White advertisement and he is offering about forty choice boars for sale. He also has a lot of sows that he will sell at any time and if any of our readers want Chester Whites they will do well to write him at once. He has a cracking good lot of spring boars for the trade and now is a splendid time to send him your order.

Some Good Short-horn Bulls.

Anybody wanting a good, young Short-horn bull will do well to call on that veteran breeder C. S. Buckley, Holstein, Iowa. He has a number for sale sired by his splendid bull, Rookwood Glory, one of the greatest sons of Imp. Bristol Glory, formerly owned by Professor Curtiss and later by Robert Miller, Lucas, Iowa. He is offering a good red Cruickshank Victoria and several others of the leading families. Write Mr. Buckley at once about these bulls and kindly mention The Homestead. His prices on these bulls are very reasonable and it will pay intending purchasers to go at once and see them.

Barnard's Polands.

In a recent letter from John S. Barnard, Nelson, Neb., he reports everything doing well in his herd of Poland Chinas. He states that he did not save as many spring pigs as is his custom, but that those that he has are good. Mr. Barnard will hold a fall sale on November 18th and will sell both gilts and boars at that time. Mr. Barnard has been buying good stuff, has the reputation of being a good caretaker and certainly should have a good lot of stuff to sell this fall. Mr. Barnard topped the T. W. Cavett sale last fall, getting some of the best gilts sold at that time. We will have more to say regarding this herd in later issues of The Homestead and would like to have our readers kindly notice the mention we make.

Theo. Martin's Short-horns and Polands.

Theo. Martin, Bellvue, Iowa, the well-known live stock auctioneer and breeder of Short-horn cattle and big-type Poland Chinas, was recently visited by a representative of this paper. The Short-horns are coming along in fine shape and a fine lot of calves are coming. The herd never was in better condition than at the present time. There is nothing for sale at present, but some fine young bulls will be ready for the winter trade. The Poland Chinas are coming along nicely. Not as many pigs were saved as usual, but there will be some good young boars for the fall trade. Mr. Martin has a good September boar sired by Long King's Equal that should find a buyer on short order at the low price asked for him which is $50. The Barred Rocks are coming along nicely. About 300 chicks were hatched this spring.

Tyrrell Announces Short-horn Sale.

The veteran Short-horn breeder, G. P. Tyrrell, Oxford Junction, Iowa, announces a sale of Short-horns to take place at his farm on September 19th. At that time he will sell fifty to sixty high-class cattle that will be a credit to his long experience as a breeder. A number of the females will be sired by his great herd bull, Wampum of Wayside, a son of the noted show bull, Money Musk. Wampum of Wayside has been used in the herd for several years and has sired a lot of good, deep-bodied, thick-fleshed cattle. Prince of Wayside is a son of Wampum of Wayside that has been used some in the herd and will be sold in the sale. Several of the females will be bred to Sultan of Wayside, a Burger bred bull sired by Sultan's Heir by Whitehall Sultan. His dam was a Beauty, sired by Hopeful Knight and the grandam was by the noted show bull, Money Musk. Short-horn breeders should keep this sale in mind. Further particulars will appear in later issues of this paper.

J. V. Slepicka's Chester Whites.

The largest bunch of Chester White spring pigs that we have seen this year are on the farm of J. V. Slepicka & Sons, Wilber, Neb. They are an extremely good lot as well, and a good representative lot will be at the fair this fall. Slepicka & Sons showed the first prize under-six-months boar at Nebraska last year, and they had other first-prize winners and many that could have won and done honor to the breed. The Nebraska State Fair management the past few years has not given the matter of Chester White judges the attention that it has deserved, in the opinion of the writer, and usually selects someone that is not wholly familiar with the breed. Chester White men should have a Chester White judge, and believe they will get it if the men will make application for such a man. It will take a lot of good hogs to defeat the Slepicka herd this season, as they will show nearly a full herd and their entries in all classes are good and in some are outstanding. The spring pigs are extra good and it will be no difficult matter to get a good litter or two out of them, however, the Chester White show is getting stronger all the time, and it will take better stuff to win this season than heretofore. Combination and Plainview Choice breeding is to be found in the herd in considerable numbers and they are always good. First-class boars are now for sale from here, boars that are real herd headers and we would suggest that readers of The Homestead write for prices on them at once. This is one of the best places to buy that we know of, and by purchasing early, one gets the benefit of greater selections, lower prices and less express charges. Write these gentlemen at once and mention The Homestead when doing so. They are first-class business men, and we believe our readers will appreciate the treatment they will receive.

American Chester White Herd.

Alden Anderson, Ellsworth, Iowa, owns the American herd of Chester White hogs and may well be proud of the high standard shown in his lot. He has at the present time, besides his crop of spring pigs, about forty head each of fall boars and sows. Among these are quite a number that are right up to the top in show herd prominence. They have wide, nicely arched backs, absolutely good feet and legs and style and finish that are just a little hard to equal. Most of these pigs are the get of Chief Select, an Emmert-bred hog that is himself unusually strong. A proportion of the spring crop are by Hiawatha and two litters by Pathfinder. All the Anderson pigs are from matured dams. They are good ones. They show an excellent type, are plenty big enough, and while they are just the kind that breeders and showmen are looking for they are also the kind that make quick response to feed and pay good profits to the farmer. In later issues of this paper additional facts will be presented concerning these hogs.

Choice Duroc Jersey Boars.

On page 20 the Economy Stock Farm, Shenandoah, Iowa, are advertising twenty choice fall boars for sale and they are offering some very good ones. These are all sired by that grand, good breeding boar Highland Chief, and it will not be very difficult to pick out a good herd boar from this bunch. Then they are offering ten or twelve good sows bred for September and October farrow to that celebrated grand champion boar, Chief's Col., and here is a proposition that every breeder should take a hold of. Few boars have made a better reputation than has old Chief's Col., both in the show ring and as a breeding boar. He was the sensational grand champion boar at the Illinois State Fair a few years ago and he has been regarded as one of the greatest breeding boars of the Duroc breed. They are offering a splendid yearling boar sired by King The Cols. that will make an outstanding herd boar. He has the size, the bone and the stretch, and is just such a boar as will make a good herd header. Write the Economy Stock Farm at once about these and kindly mention The Homestead.

Common Sense in Implement Buying.

Perhaps every reader of this paper has seen the announcements of the Plow Man and his connection with the Monmouth Plow factory. The Plow Man is a new element in agriculture. It became his duty to plan methods of introducing farm machinery to the farmer in such manner as to supply his demands for good machinery at the lowest possible cost. The low Man has in his catalog quoted prices prepaid to points of destination so that the customer exactly to a cent what any machinery he bought would cost. This year he quotes prices prepaid and prices on boar cars at the factory so that the buyer may take his choice as to the methods. The new catalog is a fine one. It describes everything in a simple and sure way which answers every possible question. The Monmouth goods were good and are good. The book has a lot of other information that farmers ought to possess. It may be had without cost by addressing a postal card request to the Plow Man, Monmouth Plow Factory, 17 South Main St., Monmouth, Ill.

H. L. Bode's Chester Whites.

The writer recently called on H. L. Bode, Friend, Neb., and we wish to say that we saw a lot of stuff, the sort one would expect to see on this farm, knowing the herd. More good Chester Whites have been bred, shown and sold from this farm than any other establishment in the state. The efforts of Mr. Bode have done much to further the interest now shown in Chester Whites throughout the state, and the show-yard record of this herd has put Nebraska on the map as far as good Chester Whites are concerned, especially in the opinion of those that have shown against him. About eighty spring pigs have been saved, and, of course, are good ones. They could not well be otherwise when they are out of daughters of O. K. Winner, the great show and breeding boar, and are sired by O. K. Keep On by Keep On. This boar is some sire, we believe as good as O. K. Winner, and that is enough said. A young boar is in the herd, will probably be shown this fall, and we believe all will take notice of him. He is O. K. Climax and by Evans' noted boar, Combination 2d. Mr. Bode will sell all boars at private treaty, and they are for sale from this time on. The gilts will mostly be held for the February 18th sale. This should be the greatest event ever pulled off in Nebraska as far as Chester Whites are concerned. Keep the date in mind and remember if it is good ones that you are looking for that Mr. Bode has them. Should you write mention The Homestead.

C. F. Adams' Polands.

C. F. Adams, Owasa, Iowa, owns one of the good herds of big-type Poland Chinas to be found in this state. His great herd boar, Big Halver is considered one of the best sires of big, smooth, heavy-boned hogs to be found anywhere. He sires the kind that all breeders admire. Mr. Adams can show fifteen or twenty yearling and two-year-old sows sired by Big Halver that are indeed mighty attractive. Few men can show as good. Mr. Adams offers for sale at the present time choice spring boars and gilts sired by Big Halver, Maid's Halver 1st, one of the very best sons of Big Halver and out of the mammoth sow, Long Maid, and he has others sired by Mammoth Jumbo by Big Jumbo and Grand Chief, a John Miller bred boar. The sows in the herd that have raised these pigs are certainly a great lot and it is worth the time of anyone interested to visit this herd and spend a few hours looking over the boars and sows that are producing a lot of good stuff. Mr. Adams is a gentleman in every way and will be glad to hear from any of our readers in need of a good boar or sow pig of the very best breeding and individuality. See page 18 and write him your wants mentioning The Homestead.

The Economy of Good Materials.

Millions of dollars of losses sustained by farmers might readily be avoided through the purchase of materials of lasting character. An instance to the point is the case of iron goods. This loss became so serious that in the late 90's the United States Department of Agriculture took up the matter and found that nails, barbed wire, etc., rusted out far more rapidly than did the iron goods of half a century ago. Some landowners could point at barbed wire fences which had been erected soon after the invention of this useful form, and which were still in good condition, while on the same farm, later purchases of wire had been replaced two or three times because of the rapid corrosion of the material. Almost everyone is familiar with the great difference between the old wrought nails of the nineteenth century and the handsome product of present-day machines. Buildings seventy-five years old have the greater portion of their nails in good condition, while those erected within fifteen or twenty years have very few not rusted. The result of numerous experiments and analysis goes to show that the old iron was generally of a high degree of purity, while modern steel contained a relatively larger admixture of substance like manganese, carbon, copper, etc., having a widely different electrical quality from that of iron and which as a result tended to set up those electro-chemical actions which are involved in the formation of rust. The final decision was embodied in a report, the net result of which was the statement that iron for all exposed situations ought to be the purest obtainable. The proof of this theory has been demonstrated in practice. For quite a number of years it has been possible to obtain, at a slightly higher price than that of the ordinary product, iron of a degree of purity never attained before; and this material, in the form of road culverts, irrigation pipe and flumes, roofing, etc., is showing itself to be of very great practical value, as it is but little harmed by rust. Taking into consideration the expense and annoyance of replacing metal work, after only a few years of service, it is probably true that this new iron product more than justifies its cost; and it seems that the conditions of the future will compel the adoption of some form which will do away with the alarming waste resulting from metallic corrosion.

WORKS FOR BUYER AND SELLER

PERRY O. BROWN, of the Maple Grove farm at Lamoni, Iowa, breeds Short-horn cattle, and recently advertised his herd in The Homestead. As a result he writes, saying: "In one week since the appearance of my advertisement in The Homestead I sold seven heifers to Grigsby & Barber, of Skidmore, Missouri; six heifers to G. A. Bonewell, Grinnell, Iowa; six heifers to E. C. Linberg, Essex, Iowa; a good bull calf to B. M. Murray, Tuskeega, Iowa, and one to R. H. Gorsuch, Lamoni, Iowa. The Homestead does good work for both buyer and seller." This letter should be a pertinent suggestion to cattle breeders who have certain stock for sale. Advertising rates or other information may be learned by writing to THE HOMESTEAD COMPANY, DES MOINES, IA.

Lawson Offers Boar Bargains.

On page 17 John B. Lawson, Clarinda, Iowa, begins his advertisement and he is offering some rare bargains in spring boars sired by his noted boars, Long King's Equal and A Wonder's Jumbo. Old Long King's Equal has been before the public so long it hardly seems necessary to tell our readers about him. However, we will say he is the greatest son of old Long King ever sired, and he is one of the best big-type breeding boars now living. In breeding condition in the presence of forty of the leading breeders, Mr. Lawson drove him on the scales and he balanced them at 965 pounds, so you may know he is a big one. His other boar, A Wonder's Jumbo, has come out wonderfully well the past year and now he stands among the foremost sons of old A Wonder. Mr. Lawson will not hold a fall sale and he is therefore offering his spring crop of pigs at private treaty. He is also offering sows bred for fall litter to these noted boars and he has some good ones. No man will go wrong who orders a boar or a sow of John B. Lawson, as he has been before the public so long that he has the reputation of breeding them good and big. Write him for description and price at once and kindly mention this paper.

J. R. Higgins & Son's Polands.

For the past three years the writer has called at the Poland China farm owned and operated by J. R. Higgins & Son, De Witt, Neb., and each season we have seen one of the very best herds of Poland Chinas within the state. They breed the largest quality hogs that we come in contact with. They are surely big and with plenty of feeding quality, and the pigs always show a great amount of thrift. The farm has splendid equipment, not expensive, but convenient and good and the sort that saves labor. It is a pleasure to visit such herds and converse with such practical men. Exacting business methods are employed, and complete records are maintained of everything and these features explain in part the success that has been attained by this firm both in the matter of choice herds, and also in a financial way. A little over a quarter of a century ago the elder of the firm came to Nebraska and about all he possessed was a strong faith in the country and good business ability. Today they own one of the finest half-section farms in eastern Nebraska and city property and other holdings. The Poland Chinas have been profitable both for themselves and for others. The top sows in many sales the past season were bred on this farm. The dam of Futurity Jack, the first-under-six-months boar at the Nebraska State Fair last season, was bred by Higgins & Son. They have also bred any number of the boars heading some of the best herds of the country right now, as well as many that have won honors in the show ring. These gentlemen never show, but it is a safe bet that a litter of pigs on this farm each year could be put in the money at the state fair. Pretty big statement we know, but we also showed hogs a dozen years and we believe that we know the kind that it takes to win. The largest Poland China for his age ever shown at Nebraska was shown two years ago by B. E. Ridgely, Pickrell, and he was bred by Higgins & Son. These gentlemen will sell both boars and gilts at private sale this fall, sired by the great and only Centennial, the greatest son of Big Victor, also a Taxpayer, one of the very best ever sired by Sampson. Taxpayer is an excellent breeder. If opportunity offers, go and see this herd, your time and money will be well spent. Should you write mention The Homestead.

Van Patten & Son's Durocs.

It is customary for Gilbert Van Patten & Son to raise a good lot of Durocs, but this season they have a better lot than they have raised for the past three years. They have about ninety spring pigs on the farm, and they are surely a good lot. Mostly the get of Uneeda Crimson Wonder, Model Wonder and Queen's Col. Uneeda Crimson Wonder is just one of the very best Crimson Wonder boars of which we have knowlege. He is a big hog, a fact that should interest the more progressive breeders, and he has quality and breeds it. He sires as good sows as will be found anywhere, and he also sires some extra good boars, however, his gilts are usually the best. Model Wonder is a good young boar. The wrter thought the best sort of pig on the fair grounds last fall, but he did not win a place. He is still a good boar, although a little different boar from what we thought he would make. He will be shown this year as junior yearling and it will take a good boar to beat him. Queen's Col. is a boar that as a breeder is hard to beat. He does not sire a big type, but he gets stuff that has as much quality, as good underlines and side lines as any boar that we ever saw. Some junior yearling sows by him will be shown this year, and they are sure good. A little different type from much of the show stock, but they are nevertheless the sort that commend themselves to the judges. Van Patten & Son will hold a sale on October 14th, and at that time will offer a choice lot of boars, and some very fine gilts. These gentlemen have been doing a great work for the breed and the stock they will offer this

season are the sort that we recommend to our readers. Keep the date in mind, and watch The Homestead for further announcements.

Amos Turner's Chester Whites.

Amos Turner, Wilber, Neb., is better fixed this season to take care of his trade in Chester Whites than he has been for some time. He has 100 spring pigs on the farm, and they are exceptionally good. Many of them are really outstanding, but quite a few of them are a little too late to show this season. They are the sort that everyone is looking for as breeding stock, however, and those that have bought of Mr. Turner the past several years have always received full value for their money. Choice spring boars and gilts will be for sale a little later on, and in fact are for sale right now. By ordering early one will have the advantage of greater selection, and at the same time a saving on the price and the express. The pigs are mostly the get of O. K. Wilber, a son of H. L. Bode's noted O. K. Winner. The remainder are nearly all the get of Combination's Last by Kent's well-known boar, Combination. A few litters are by A White Hope, by O. K. Wilber and he is out of a daughter of the grand champion boar, Plainview Choice. This boar will be offered for sale and to any of our readers looking for a good herd-boar proposition we wish to say that he will be sold worth the money. Watch this paper for Mr. Turner's advertisement a little later, and in the meantime if in need of anything, write him immediately, and when doing so, mention this paper.

J. H. Harper's Short-horns and Durocs.

A short time ago the writer called on J. H. Harper, Bennet, Neb., and spent some time in looking over the herds of Short-horns and Durocs. These herds are well established, having been maintained on this farm for many years, and the breeding material selected from outside sources has always been of the best. A new herd bull was placed in service last spring, and is without question one of the very best individual bulls in the country and he also comes of a beautiful line of stock. He is called King of Diamonds and is sired by Imp. Diamond Rex and is of the same style and makeup of Cock Robin. His underlines and general thickness are as good as one sees in a long time, in fact, a bull smoother of shoulder, better let down in the flank and with greater beef character we have but rarely if ever seen. This bull was formerly in use in the Johnston herd, Holdrege, Neb., and sired for his former owners a most excellent lot of stock. A former bull that was used with much success in the herd was Rex Dictator 3d, also by Diamond Rex and his dam was Imp. Dalmeny Mina by Dictator. Bulls by this latter sire are now for sale. They are both pure Scotch and Scotch topped and are from an excellent line of cows. The Duroc herd is one that has been built up of the right kind of stuff. The sow herd is strong in the blood of Buddy K. 4th, Kruger, Prince Wonder and many of the boars that have been famous the past two or three years. The present herd boar was bred by Briggs Bros., and is sired by Golden Model 5th and has for dam a daughter of Watt's Model. About seventy spring pigs are on the farm, and the boars and gilts will be for sale at private treaty. Mr. Harper will probably be at the state fair with a number of good strong boars, and those of our readers interested will do well to look for his exhibit at that time. When writing kindly mention The Homestead.

John T. Higgins' Duroc Jerseys.

A recent visit to the farm of John T. Higgins, Abilene, Kan., found this ambitious young breeder of Duroc Jerseys, an extremely busy man, as in addition to the hogs and a young herd of Jersey cattle maintained by him, Mr. Higgins has over 100 acres of corn that demands his attention and 100 acres of wheat about ready for the harvest. Ninety head of spring pigs all coming along in fine shape however shows that the Durocs are not being neglected by this breeder and his competent helpers. Many of our readers are familiar with Mr. Higgins's splendid herd and remember the great bred sow sale made by him last winter, this sale being one of the very best of the season. Good Enuff Model 2d 127255, the wonderful breeding son of the Nebraska champion, Good Enuff Model, is the wonderful breeding son of the Nebraska champion, Good Enuff Model, is the senior boar in service, and bids fair to take the place of his great sire both as a breeder and individual. Mr. Higgins had the misfortune to lose the Tippy Col. boar, Cherry Col., but a quantity of his get is in the herd. The class of this breeder's sow herd is well known and includes many noted matrons, among the number being Chief's Maid, the grand champion sow at Iowa and Nebraska last year, purchased in the Davis diversion sale. She is by the noted Valley Chief. In her spring litter by the grand champion, Ohio Col. is a young boar that is a great prospect. Among other good spring litters are one of seven pigs out of a Defender sow by Crimson Wonder Again, one of nine pigs by King the Col., out of a Proud Chief dam, and one of eight raised out of nineteen farrowed by Beauty's Model Top out of an Ohio Chief bred sow. This sow was the next to the top-priced sow in Sheley & Clatterbuck's winter sale. Mr. Higgins has claimed November 10th as the date of his fall sale at which time a number of toppy boars and gilts will be offered. In addition to his great herd of Durocs Mr. Higgins has one of the best herds of young Jersey cattle in the West. At the head of the herd is an imported bull by Noble of Oaklands. He has been a prize winner at five state fairs and two dairy shows. We will have more to say later. Keep this herd and fall sale in mind, and in writing for further information kindly mention The Homestead.

Walker's Galvanized Roofing.

The advertisement of the Walker Sheet Metal Company on page 7 illustrates the most modern method of application of sheet iron to building. It is used both as siding and as roofing and in those forms which afford perfect protection from both wind and rain. The advertisers insist that this form of roofing lasts twice as long as shingles. A catalog illustrating the various forms and also showing Walker's barn ventilators may be had on application to Walker Sheet Metal Co., 21 S. 21st St., Council Bluffs, Iowa.

H. H. Koenig's Durocs.

The writer visited H. H. Koenig, De Witt, Neb., a few days ago and we wish to say that he has one of the best lots of pigs on the farm that he has ever raised since he started in the Duroc Jersey business. Near 100 head are on the farm and they are thrifty and nice. Mr. Koenig is a stockman that has produced a lot of the good ones, and is still at it. His health has not been at all good this season, but he has managed to take good care of his pigs. His farm is one of the best appointed, and most conveniently arranged of any that we visit, and we are glad that he is getting some return for his labor and the expense of fitting this farm for the pure-bred hog business. The pig crop is by four sires. They are: Red Model by Golden Model; King's Wonder by I Am A Crimson Wonder 2d; Echo's Chief and a son of A Crimson Wonder. The Red Model and King's Wonder pigs are especially attractive and have promse of great development. Echo's Chief pigs are no experiment and we feel assured that his get will be as good as formerly, which will mean that they will make very fine hogs. The A Crimson Wonder boar has only a couple of litters to his credit, but they are right in every way. There is also a litter on the farm by Golden Model 2d and while they do not now compare with the others on the farm, the writer has faith in them and believe they will make good. On account of being long on herd boars, Mr. Koenig will sell one or two of these boars now on the farm, and he truly has some good boars. Red Medol by Golden Model will be sold, or the son of A Crimson Wonder or even King's Wonder. This last boar is one of the best yearlings in the state and will make a good showing at the state fair this season. The prices on these boars are not high, in fact, if Mr. Koenig had but one boar and any one of them, he could not be bought at any price, but he positively does not need so many for a herd of the size he keeps. Mr. Koenig will be at the state fair this fall. Be sure and see him. If writing for one of this choice boars kindly mention The Homestead.

Col. L. F. Teter, Auctioneer.

One of the more progressive auctioneers and an enterprising breeder of pure-bred stock is Col. L. F. Teter, Shickley, Neb. Colonel Teter has enjoyed a splendid business the past few

years and has also been successful in getting a good line of pure-bred stock sales. The writer has been at a few pure-bred sales where Colonel Teter was employed and we wish to say that he has done good work. We do not know of a breeder employing him that has not been entirely pleased with the work rendered. Readers of The Homestead need not hesitate to employ him, for they will certainly get their money's worth in his services. His prices are reasonable and his conduct is that which recommends him to the better class. If you have not dated your fall sale as yet, give Colonel Teter a trial. You will be more than satisfied. When writing mention The Homestead. See advertisement on page 17.

Thos. A. Shattuck's Poland Chinas.

One of the most constructive stockmen of a great live stock state is Thos. A. Shattuck, Hastings, Neb. His farm and the city of Hastings has become famous as the home of good Poland Chinas. Queen City Stock Farm, Mr. Shattuck's home, has sent out a greater number of herd-heading boars than any other herd within the state, and they have made good for the other fellow. It is some satisfaction, and it has always been a source of profit to this able stockman and what he has accomplished in this line of work is entirely within the power of any wide-awake man to acomplish, provided that he is not visited with unavoidable misfortunes. About twenty-five years ago Mr. Shattuck started in the Poland China business. He was then without means, and making the best of a situation in which he put up his business ability against the situation and he has certainly won out. Today he possesses all that mortal man can possibly use, and more besides, and he and his family enjoy a degree of comfort that many are not trained to enjoy, even with the means to do as well. It is such men as Mr. Shattuck that lend dignity to the profession of pure-bred stock breeders and we are glad he is here. His influence cannot be but for good, and his stock produced certainly add much to the value of the live stock industry of a great state. Something over 100 pigs were raised this year, and from thirteen sows. The great breeding boar, Sampson is in use in the herd. He has sired a great many and they are uniformily of much excellence. He is a sire with few equals. His gilts mature into wonderful brood sows and his boars head good herds and make good. A part of the pig crop is by him, part by Momentum and the remainder by Jumbo Chief by Jumbo Pan. The two old boars are doing as well. In early October a public sale will be made from this herd, and Poland China men of all sections will find it a good place to be. If you have not been getting the catalogs of the sales on this farm, drop Mr. Shattuck a postal with your address and ask that it be sent you when sale time comes. Mention The Homestead when you write.

The Durability of Silos.

An important feature of silo construction is that the silo shall be durable, because upon the durability depends all its other usefulness and profit. The Champion silo, an advertisement of which appeared on the last page of our issue of June 26th, is made of staves which have received oil treatment, giving them lasting qualities of the highest order. These staves are oil filled through a process by which oil is forced into the wood under an enormous pressure. This means that it

is rot proof and worm proof and that it will neither shrink nor swell under ordinary climatic conditions. The effects of this method of treatment are illustrated in the engraving which appears herewith. It represents two piles taken from Galveston Harbor. That on the left in the picture was an untreated pile which had been in use only one year. The larger one on the right which had been treated with a special oil process had been in the water thirty-eight years and appearances indicate that it is still good. Champion silos are given practically the same oil treatment, but under more effective conditions. It would seem that this method of silo building would answer every question of doubt concerning the practicability of building a silo. As to the use of a silo, that is another question. It really seems that no farmer can afford not to have a silo because a silo preserves every particle of the corn crop and puts it into a form which enables it to be utilized to the last degree and with no loss whatever. It also provides a most valuable feed at a time when a shortage of pasture through unseasonable weather may bring extraordinary losses. The manufacturers of the Champion will be glad to furnish other information with reference to this silo, its cost and other factors that the buyer should consider. Address Western Silo Co., 100 Eleventh St., Des Moines, Iowa.

W. N. Shanks' Durocs.

Among the many good Duroc Jersey herds in the state of Minnesota, one that stands out among the rest is that of that rising young breeder, W. N. Shanks, Worthington. Many of the older breeders and some with reputations as showmen, could learn a lesson by an inspection of the 170 head of spring pigs he now has on the place, and the many first-class sows he has in his herd. We are strictly within bounds when we say that he has sows in the herd that are superior to most of the sows seen at the leading state fairs and sows that should they be shown would indeed be hard to beat. It is very few herds that you will go into where you will find as many good things as you will see in the Shank herd. The two boars he is now using are Chief Model by Golden Model 2d and out of an Ohio Chief dam. This boar was first at Sioux City and first and junior champion at the Iowa State Fair in 1912, and was purchased from the Waltemeyer Bros., Melbourne, Iowa. The other boar is Model Chief's Last by old Model Chief and out of an Advancer dam. The most of his spring pigs are sired by these two boars, except those that are out of sows he purchased last winter. He has a number of good fall boars, several of which are fit to head good herds. He has an unusually choice fall boar that is sired by Model Chief 2d that will make a most excellent herd boar. We have looked this pig over carefully and if nothing goes wrong with him he ought to have a good outcome. We have seen very few that are in his class this season. While there we saw that noted old sow, Lady Top Notcher, a daughter of the old World's Fair boar, Top Notcher Again, and she still looks good to us. This is one of the best sows that has ever been owned in the Northwest and is the dam and grandam of many of the best sows he has in the herd. He has four daughters of that famous old grand champion boar, Crimson Wonder Again in the herd, five daughters of Golden Model 2d and fifteen daughters of Model Chief 2d. Besides these he has daughters of old Model Chief, Chief's Protection and other noted boars. He has one of the best daughters of old Crimson Wonder Again that we ever saw and she is a sow that would today be a hard sow to beat in the aged class at any of the state fairs this fall were she fitted and shown. Just at the present time he is offering fall boars and would also book orders for spring boars. If you want to get in on the ground floor it might be well to order one of these pigs before they have been picked over, and we therefore urge Homestead readers to write Mr. Shanks or call and inspect his herd.

Thirty Years a Poland China Breeder.

To have bred Poland Chinas for a period of thirty years is no small honor for any stockman, but in that time to have bred and owned many of the famous ones of the breed is indeed a matter to cause one much satisfaction. Such is the record of John O'Connell, Malcolm, Neb., as a Poland China breeder. His herd is one that is known over the hog country as but few are known. Good ones in plenty have gone out from there, and still better things are due from this herd. Among the early boars that made history for the herd we mention one that gained a lot of notoriety during his day. He was King of Lancaster and was shown at the Nebraska State Fair in 1888 and was first and champion. He was sired by the noted boar, Banker, who in turn was sired by Success. These boars were bred by Mr. Shallenberger, Ohio, at that time the foremost breeder of show stock in the country and one of the very best judges of good ones in his day. King of Lancaster sired many good ones and was used some little time, and was succeeded by Seldom Seen 3d. Seldom Seen 3d was bred by Lampe Bros., Van Wert, Ohio, and came of a line of stock that made the Lampe Bros. herd famous. Seldom Seen 3d gained distinction in the O'Connell herd by siring the second-prize sow at the World's Fair at Chicago, and many others of show-yard quality. Electric Light, a Blain-bred boar sired by Searchlight, was used at one time, and was followed by the great breeding boar, O.'s Black Chief. This boar came from Ohio, and from the very center of the big-type Poland China district and was one of the most potent factors in building up the big strain in the early days. W. T. Garret, Maryville, Mo., was gaining a reputation for his Poland Chinas about this time and Mr. O'Connell paid the herd a visit, selected the best on the farm and named him Big Perfection. He was sired by Nodaway Perfection and was one of the biggest hogs of his time. Whitewater, Wis., had a noted Poland China man about this time (the late nineties) and Mr. O'Connell drew on this herd for Cash Price. He was bred by B. F. Fowler of that place and came of a strain of hogs bred by the well-known Price & Sons, Pekin, Ill. This boar came of the extreme big ones, having been bred that way for many generations, a feature that characterized the early Price strains of Poland Chinas. The boars that then followed are familiar to nearly everyone in the Poland China breeding today. They were Winsome Chief, O.'s Perfection, Nebraska Giant, Allerton Chief, Big Tecumseh and O.'s Jumbo. Since 1888 to the present time, Mr. O'Connell has usually been at the state fair, has helped the breed in many ways, and has always contributed liberally of the very best breeding stock. Such men are certainly benefactors, lend dignity to the profession of improved live stock breeders and make this country a better place to live. He has certainly been a great stockman, a wise farmer and a good neighbor. We wish him many more successful and pleasant years.

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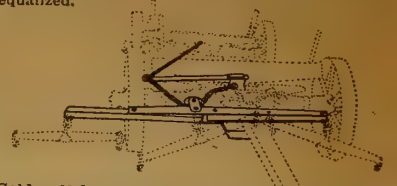

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THE MARKETS.

Union Stock Yards, Chicago, Ill., June 28.—Something has been radically wrong with demand for beef cattle this week. Just what it has been is not clearly outlined, the explanations advanced savoring of lack of ingenuity, but the fact remains that the rank and file of the fat steers are closing 15 to 25c lower than a week ago despite a decrease in local receipts of 12,000 and a shrinkage of 32,000 in the aggregate supply at six markets as compared with the week previous.

A trinity of depressing factors are given. Chief of these is "hot weather." Extremely high temperatures are never conducive to a broad consumptive demand for beef and this has doubtless had much to do with the mean market this week. Then the holidays coming at next week's end are advanced as a movement of Pennsylvania cattle and Kentucky sloppers is given as another. Cattle that have been filling eastern markets are now pretty well run, however, and shipping demand to the big Atlantic seaboard distributive centers is expected to revive soon.

Supply is running lighter than a year ago, yet prices are considerably lower. A year ago choice bullocks sold up to $9.60 and the distillery crop was being absorbed at $9.00 to $9.30. The range in prices was much wider then than now, however, the class of light steers now selling at $7.25 to $8.00, then going around $6.25 to $7.50. The gradually decreasing proportion of good beeves and deterioration in quality generally appeared to warrant prediction of rapid spread widening at this juncture, but the decline this week has been pretty evenly distributed.

The best steers here this week sold at $9.00 and that quotation is disputable at the close, a right choice class of 1,487-pound beeves selling Friday at $8.60. Probably 70 per cent of the run has sold between $7.85 and $8.50, against a $7.50 to $9.25 bulk a year ago this week. Elimination of Pennsylanvia cattle and Kentucky sloppers from the supply ought to clearify the situation, but something unforseen has the faculty of cropping up and exerting repressive influence.

Butcher she stock trade is closing on the bottom of last week's decline, though much business was done during the week at a 10 to 15c advance over the close last week. Buyers have complained of low dressing figures and discrimination against big-bellied, grassy stuff has been more marked than at any previous time this season. Such improvement as was shown during the week was chiefly on the strictly choice to prime dry-fed cows and best yearling heifers and low-grade cows of and closely approaching canner and cutter class. The price range between decent butcher cows and heifers and the best dry-fed classes has widened out 50 to 75c within the last few weeks. Some prime dry-fed yearling heifers have made $8.25 to $8.50, but a medium to good short-fed class lacking finish has sold at $7.25 to $7.60 and frequently have sold very disappointingly to shippers who had figured they would land within 25 to 50c of extreme top quotations. Bulk of the fair to very good killing heifers has sold this week at $6.75 to $7.50 and $5.35 to $6.50 has taken most of the decent to very good butcher cows, although occasional prime corn-fed beef cows, which are becoming very scarce, have reached $7.35 to $7.65. Cutter cows sold largely between $4.50 and $5.00 and canners chiefly from $4.00 to $4.40. Bulls above canner class advanced 10 to 15c during the week. Demand has hardly been up to normal volume, but supply has been much lighter than last week. Balognas sold largely at $6.00 to $6.25, but took a range of from $5.85 to $6.60 for poor light to best big weights, while $6.65 to $7.00 has taken plain to good beef bulls with prime ranging upward to $7.50. Calves closed mostly 25c higher for the week, receipts having decreased about 2,500 head and eastern dressed veal markets improving slightly. Best vealers closed at $9.25 to $9.50; bulk going at $8.75 to $9.00 and fair to good heavies largely at $6.00 to $6.75.

Timely rains in the drouth-stricken regions, curtailed marketings of stock and feeding cattle and brought about an enlarged demand and good recovery from last week's sharp decline, some low-grade, thin stockers still showing 35 to 50c declines from the best levels reached early in the month, but choice heavy feeders and best steer yearlings selling within 10 to 20c of the season's best rates and a good sort only about 25c below high time. Selected yearling feeders have sold upward to $8.00 and a few loads of heavy feeders at $8.00 to $8.10, while a spread of from $6.85 to $7.65 has taken the bulk of the stock and feeding steers, common, light off-colored stock steers alone selling under $6.50, nothing desirable in the stock heifer line below $6.65 and stock cows largely at $5.35 to $5.65. The market is on a high plane for this time of the year, and unless weather conditions affecting pastures hold unusually good, reactions may be expected at any time supplies get liberal. A year ago the best feeders were selling around $6.50 and bulk of the fair to choice young cattle on country account at $5.25 to $6.40, and as rated above the best fat cattle were considerably higher then than now.

The close of the current week virtually ends one of the most satisfactory June hog markets the trade has ever experienced. The June slump, much predicted, but the materialization of which has been questioned right along in this column, is yet to make its appearance, and with but one more market session this month to complete the history of the June trade left to come, the market is found to be on even a stronger basis than at its opening, the top and average price today being 5c higher than a month ago. Fluctuations in values this week have been narrow and closing prices are on practically the same basis as a week ago, top butchers selling up to $8.80 and the bulk within the narrow range of from $8.65 to $8.75. This week's eleven market supply will show an increase of about 15,000 over the week previous and 40,000 over a year ago, but for the year to date a decrease of 1,240,000 head in the eleven market total is shown. A wider spread in prices may be expected to develop within the near future, as eastern hog run dwindles and shipping demand for light and butcher weights revive. The logical result of corn abundance and a good hog market will be delay in sending the summer run of sows to market, but they will be lard yielders when they do reach packers and the crop will be closely garnered. Prime light hogs above the $9.00 mark and choice heavy packers below $8.50 before July is greatly aged, is a trade prediction that appears logical.

If three consecutive weeks have ever shown as erratic conditions in the live mutton trade as have been those of the past three weeks the fact has escaped the memory of pioneer traders on this market. Following last week's ruinous declines shippers put the lid down tight on their marketings. Chicago received less than 35,000 the first few days of the week, inclusive of 14,000 direct to packers from Louisville, and other market reported correspondingly light runs. On these short runs the market did a great availing stunt, spring lambs advancing $1.50 to $1.75 within four days, yearlings $1.00 to $1.25 and fat ewes 75c to $1.00. The bulge brought a run of Friday and buyers proceeded to shoot the inflated values of Thursday full of holes, the Friday session being productive of a 50 to 75c lower spring lamb trade and a 25 to 50c lower yearling and sheep market. Further downward revision of the price list is scheduled for next week. Southern lambs are again being cut loose freely and the Northwestern range will be conspicuously represented next week for the first time this year, some Idaho lambs now being en route and a train or two of sheep and yearlings coming from Oregon and Washington. At the close good to best spring lambs are making $7.75 to $8.00, fair to best yearlings $5.75 to $7.25 and light ewes $2.75 to $5.00, while heavy and medium ewes are down to $4.15 to $4.50.

SUMMER SHADE FOR HOGS.

The accompanying engraving shows a cheap and simple method of providing summer shade for hogs. Shade of some sort is an absolute necessity in a hog pasture. Quite often, however, there are no trees in such pastures and in such a case the shelter or shade referred to is of great value.

SUMMER SHADE FOR HOGS.

THE COST OF BEEF FAT.

It costs a farmer twenty-five cents a pound to produce fat on cattle. This fat sells for about one-third that amount. All the fat a butcher cannot dispose of to the housewife, who buys it over the telephone without seeing it, he sells as raw tallow for about five cents a pound.

These interesting facts were disclosed by Pres. J. Henry Waters in an address on "How An Animal Grows" in the meeting of cattle farmers at the Kansas Agricultural College. More than five hundred cattle feeders and a large delegation of members of the live stock exchanges of Kansas City, St. Joseph and Chicago heard the address.

"The fat on a steak or roast which the family will not eat," President Waters said, "finds a place in the garbage can or in the tummy of the family cat.

"Thus fat making, on the farm, which takes the best product on the farm—corn and alfalfa—is an expensive and losing business. This loss involves the farmer, the butcher and the consumer, especially, if more fat is put on a steer than is necessary, or if the steer puts it on in wrong places. The scrub steer and the dairy breeds have a strong tendency to store their fat in the wrong place, in the body cavity.

"It is the lean meat we are striving for. Only as much fat should be with the meat as is necessary to give juiciness, flavor and tenderness. Any fat in excess of this in cattle is a waste of the feed required to produce it."

Coming down to the remedy for the condition of which he spoke, President Waters said: "The way out is found chiefly in grading up the beef stock to higher standards, so they will put the fat in the steak. Proper breeding and proper feeding will bring about the desired results."

"No matter how skillful a man may be as a breeder," President Waters said, "if he fails to feed properly his animals will revert to the original or unimproved type. They will be narrow, tall, long legged and sloping at the rump instead of straight, flat ribbed, heavy in the foreparts and light in the hind quarters.

"The best cross possible to make is between a well-bred animal and a well-filled grain bin. At the foundation of the best progress in animal improvement is a clearer knowledge than we now have of the limitations of heredity and nutrition in their influence upon the mature animal, and a definite knowledge as to whether the deficiencies of one may, to any practicable degree, be supplied to the other. It does not matter that the breeder and the feeder are in many instances one. Feeding and breeding are independent operations.

"We should, then, have much less waste of effort through attempts to accomplish with feed those things which may alone be accomplished through breeding, and by trusting to pedigree those things for which the feed bin alone is responsible. It is an old theory, but one which is well sustained by experience, that both contribute in an important and indispensable way to the final results and that a really good race of animals cannot be developed or the excellencies of a highly improved race maintained, except through a rational system of mating and a correct system of feeding."

The lion and the rhinocerous live sixty years; the goose, common pike, and pelican, fifty; the hart and vulture, forty; the ass, bull and camel, thirty; the horse, twenty-five; the peacock, from twenty-three to twenty-five; the pig, bear, cow, pigeon, cat, dog, deer, wolf and the fresh water lobster, twenty years. Fifteen years is the average of the duck, nightingale, lark, fox and pheasant; the canary and the cricket, ten; the rabbit, eight, and the hare and squirrel, seven.

Ask your neighbor to subscribe for The Homestead.

TOO LATE TO CLASSIFY.

LAWSON'S SENSATIONAL BIG POLAND CHINA BARGAINS

THE home of the noted breeding boar, **Long King's Equal** (weight 965 lbs. in breeding condition, weighed in the presence of forty breeders). Sows bred to him and **A Wonder's Jumbo** for fall litters. **150 Choice Spring Pigs** that I am now offering at private treaty. Will not hold fall sale and will sell these out privately at less than half the money they would bring in a sale. Now is the time to get your bargain while the good ones are here. Write me at once for description and prices and mention Farmer and Stockman.
JOHN B. LAWSON - - - - CLARINDA, IOWA

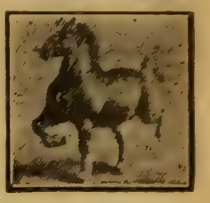
50 HEAD HEREFORD BULLS FOR SALE 50

WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.
A. SPOONER & SON, - - MONDAMIN, IOWA

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent fall boars, some choice herd headers. Also 50 good spring boars. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

BELGIAN EMPORIUM OF AMERICA.



A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address
HENRY LEFEBURE - FAIRFAX, IOWA.
Eight miles west of Cedar Rapids.

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

YEARLING DUROC BOARS

I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices. R. R. Station, Tripoli.
M. S. PRATT, - FREDERIKA, IOWA

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
W. M. MYERS - - BEAMAN, IOWA.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
J. E. Barr, R. F. D. 4, Davenport, Iowa.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE - MT. VERNON, IOWA.

Stooker's Stock Farm

OFFERING just now some very choice Percherons, A pair young stallions and a few mares. Write for full information. Address
F. A. STOOKER, DUNBAR, NEBRASKA

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address
L. F. TETER - SHICKLEY, NEBRASKA

POLAND CHINA SWINE.

COOPER'S SPECIAL 30-DAY BOAR SALE

WE have over **100 head of boar pigs of spring farrow.** We have 25 sows to begin to farrow in 2 weeks. We must have room for them. Hence, for 30 days we are going to sell these boars at prices they will bring on the market next fall, and they will be worth $40 to $100 each as breeders at that time. They are all immunized. We guarantee safe delivery and record them at

25 DOLLARS EACH

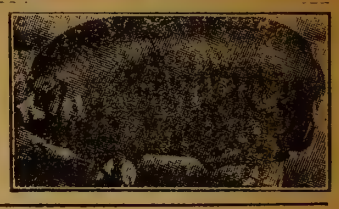
They are sired by Big Expansion (the 800-lb. son of the noted Dorr's Expansion), Big Bone 2nd (weighing 900 actual pounds, a son of Big Bone), Chief Leader (weighing over 500 lbs. at 14 months old), and Ideal Chief, and other noted boars. **The dams are sows weighing from 500-lb. yearlings up to sows of over 800 lbs.** If you are in the market for the biggest blood lines, from big sires and dams, send your check, tell us the kind of pig you want and we will send him or return your money. You will not buy such boars, such breeding, at the price again this year. Buy your boar now and save 20 to 50 dollars on him.

W. H. COOPER - - - - - - - - - - **HEDRICK, IOWA.**

BIG BONE 2d 161497.

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25 to $35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**



Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 250 to 275 pounds. I have spring pigs weighing 75 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment.

JOHN I. DRIPPS - - SPRINGVILLE, IA.

C. F. Adams' Big-Type Poland Chinas

I WILL sell spring pigs sired by my great herd boars, **Big Halvor** (generally conceded to be one of the very best big-type boars in Iowa), **Maid's Halvor 1st,** a son of **Big Halvor** and out of the mammoth sow, **Long Maid,** and one of the grand young boars of the breed, **Mammoth Jumbo,** a son of the noted **Big Jumbo** and **Grand Chief,** bred by John Miller. These pigs are out of a herd of

Sows That Cannot Be Surpassed for Size and Quality

These sows are bred in the purple, many of them being sired by the great sire, **Big Halvor,** others by **Coming Wonder, Big Nelson,** etc. I know I can please you in a pig and that you will be more than pleased with the manner in which they develop. These pigs will be worth three and four times what I am asking for them within the next year. Write me for prices, mentioning Homestead

C. F. ADAMS - - - - - - - - - - - - - - - - - - **OWASA, IOWA.**

Mouw's Polands Average $104.

The sale of big-type Polands made by Peter Mouw, Orange City, Iowa, on June 25th, brought out a large crowd of breeders and he disposed of fifty-three head at an average of $104. This is the first midsummer sale Mr. Mouw has ever made and considering the busy season of the year, it must be regarded as a most excellent sale. The top of the sale was Square Jumbo, a two-year-old son of Big Jumbo and he was secured by W. J. Graham, Howard Lake, Minn., at $415 and he was a bargain at that figure. The second highest price boar was Iowa King, a two-year-old son of Big Wonder, and he was purchased by J. O. James, Braddyville, Iowa, at an even $400. When it comes to size and bone we regard this hog as one ofthe best in the entire offering and we look for a splendid outcome in this hog. Williams Bros., Villisca, Iowa, got another great bargain in the April yearling boar, Wonder, at $190, and we look for these breeders to make a good hog out of him. Thos. F. Miller, York, Neb., was a discriminating buyer of sows and secured several of the better ones, as also did W. J. Graham, Howard Lake, Minn. In the younger boars W. W. Birge, North Platte, Neb., got the pick in Mouw's Tecumseh at $95. Colonel Benson cried the sale, assisted by Ira Cottingham in the ring. Below we list those selling for $40 and above:

1.	Long Orange, H. J. Weeldrier, Bridgewater, S. D.	$180
2.	Oakland Jumbo, H. F. Anderson, Castleton, Ill.	330
3.	Square Jumbo, W. J. Graham, Howard Lake, Minn	415
4.	Tecumseh Jumbo, C. A. McCormick, Mechanicsville, Iowa.	105
5.	Young Jumbo, Harry Blockter, Henry, Ill.	105
6	Big Jumbo 2d, W. Z. Swallow, Waukee, Iowa	65
7.	Iowa King, J. O. James, Braddyville, Iowa.	400
8.	Chief Price, M. Shivers, Knoxville, Iowa.	102
9.	Smooth Wonder, W. J. Graham.	180
10.	Wonder, Williams Bros, Villisca, Iowa	190
11.	Fair Fellow 2d, E. Gritters, Perkins, Iowa	95
12.	Long Jumbo, C. J. Anderson, Wausa, Neb.	100
13.	Long Jumbo, Harry Uittenbogard, Archer, Iowa.	130
14.	Adam's Big Hal, E. W. Kreischer, Mt. Vernon, Iowa.	75
15.	Mollie's Jumbo, H. T. Hayman. Formoso, Kan.	95
16.	Long Jumbo 2d, P. S. Armstrong, Owensville, Ind.	95
17.	Tecumseh Bib Bone, J. B. Roberts, Pierce, Neb.	75
18.	W. N. Dean, Pierce, Neb.	50
19.	A. G. Miller, Kellogg, Iowa	80
20.	Thos. Sturdy, Greenfield, Iowa	70
21.	W. E. Henshaw, Oskaloosa, Iowa	67
22.	J. L. Gutschall, Sheffield, Ill.	50
23.	W. J. Graham	165
25.	S. R. Kiefer, Mt. Carroll, Ill.	120
26.	F. J. Hicks, Onarga, Ill.	125
27.	J. K. Jones, Ottawa, Kan.	65
28.	C. A. Smith, Britt, Iowa	80
24.	W. W. Wright, Allen, Neb.	80
30.	Thos. Sturdy	80
31.	James Ten Cate, Edgerton, Minn.	55
29.	Link Lukens, Disco, Ind.	60
32.	Reubel Bros., Marathon, Iowa	150
33.	W. J. Graham	35
34.	L. W. Lugar, Derby, Iowa.	45
41.	E. F. Dettoff, Le Mars, Iowa.	40
43.	E. A. Holt, Garner, Iowa.	42
50.	A. C. Diedrick, Rush Lake, Wis.	70
51.	E. J. Miller, Millersburg, Ohio	75
52.	C. A. Phillips, New Sharon, Iowa	77
53.	John Noll, Winchester, Kan.	60
54.	Thos. F. Miller, York, Neb.	100
56.	W. W. Birge, North Platte Neb.	95
63.	W. J. Graham	60
69.	E. J. Miller	205
70.	E. J. Miller	95
71.	W. E. Henshaw	55
72.	C. B. Harttever, Kenneth, Minn.	55
75.	T. F. Miller	130
76.	E. E. Curtiss, Union, Iowa.	60
77.	M. Shivers, Knoxville, Iowa.	100
78.	Chas. Stevens, Little Indian, Ill.	45

POLLED DURHAM CATTLE.

WAYSIDE POLLED DURHAMS, Poland Chinas, Wayside Victor, roan, Scotch bred 3 yr. olds, and calves 6 to 12 mos., choice big-type fall pigs, either sex. E. J. Augspurger, Pulaski, Ia.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

Kool's Poland China Herd.

A representative of this paper last week made a visit to the farm of A. Kool, Cordova, Iowa, and found that gentleman's herd of Poland China hogs to be fully up to its usual high standing of merit. Mr. Kool has made it an object to obtain a great deal of size in his herd, while at the same time maintaining a degree of finish and early maturing qualities such as have generally been overlooked by breeders of greater prominence. Mr. Kool has in service in his herd a hog which the writer looks upon as one of the most valuable Poland Chinas in existence. This is Big Victor's Improver, a son of Lonergan's Big Victor and an animal which is remarkable for size, bone, symmetrical proportions and prepotency as a breeder. There is good reason for the existence of all these points of excellence, because it is probable that few other hogs of the breed combine in their pedigrees so much of the excellence of those animals which have been responsible for the high standard of the Poland China today. Perhaps some of the names in this pedigree have not received consideration by breeders of today, but just the same they have exercised an overshadowing influence without which the Poland China would never have arrived at his present prominence. In the pedigree we find the name of Free Trade, a hog which as a yearling at the Iowa State Fair topped the beam at 800 pounds, won championship and gained the reputation of being at least as good a Poland China as had ever been driven into a show ring. Another line of the pedigree traces to George Wilkes, the most prominent and most talked about representative of the Tecumseh strain, than which there is none better. Still another line goes to Look Me Over, and Look Me Over was a hog of usual size with a remarkable mellowness and finish such as is seldom found. Still back of this is the old Give or Take blood that furnished the foundation on which many breeders built their success. Big Victor's Improver is a worthy representative of his famous ancestors. His get are just as big as any of the more boasted big-type kind and they are just as good as any kind that can be produced. In the hands of expert showmen they would certainly have arrived at front rank as show pigs. Mr. Kool has also in service Jumbo by The Big Orphan. His dam was a daughter of Fesenmeyer's A Wonder and back of that other strong infusions of most popular strains of blood. The brood sows in the herd are good ones. They are well bred and have been chosen with particular reference to breeding qualities as well as size and finish. Mr. Kool announces a fall sale to take place October 10th. In this he will have a magnificent lot of fall boars as well as a few of the best of the spring crop. Additional information will be given in due time.

The welfare of cattle and horses and the profits to be derived from them depend upon the degree of comfort which is afforded them. During the summer season flies do more to deteriorate the value of live stock than any other one cause. The fact should interest owners in Cow-Ease, which is advertised on page 8 and which is recommended as a means of keeping flies off of cattle and horses and preventing ticks. It is sold at the low rate named in the advertisement. Address orders to Carpenter-Morton Co., Boston, Mass.

25--Big-Type Poland China Sows For Sale--25

These are all strong in the blood of the strictly big kind and are bred to the 900-lb. Mouw's Big Sioux for fall litters. I am also offering to sell my splendid 2-year-old boar, Smooth Jumbo. Write me at once and mention The Iowa Homestead. Address - - - **GEORGE GLYNN, Sioux Rapids, Iowa.**

AUGUST GORDER'S POLAND CHINAS

A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.

AUGUST GORDER, PLATTSMOUTH, NEB.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

BIG HERCULES

ONE of the very biggest of all the extra big ones is at the head of our Poland China herd. In our Oct. 23rd sale we will offer a few sows either bred or with breeding privilege to this boar. We have an extra select line of spring boars that we will offer at that time. They are by the great Gold Medal. Let us tell you of these big Polands.

J. T. R. NASH & SON - - - - - - **MINDEN, NEBRASKA**

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

J. D. Gates & Sons, Ravenwood, Mo.

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

FAULKNER'S SPOTTED POLANDS

THE old original big-boned spotted kind. Now booking orders for spring pigs to be shipped when weaned. Pairs or trios, no kin. Everything Registered. For the kind of our forefathers address

Homer L. Faulkner, Box 117, Jamesport, Mo.

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to H.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

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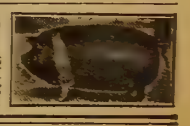

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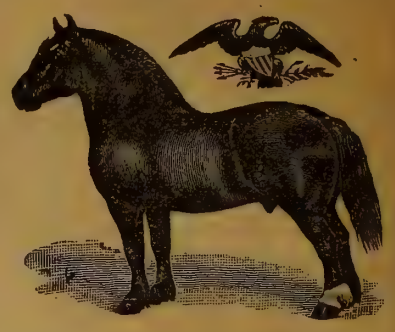

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10 Head of Extra Large Imported 3 Year Olds.
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Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

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See the kind of colts they are suckling.
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STRICTLY choice lot of stock, best of breeding and attractive prices. C. S. Bratt, Arapahoe, Neb.

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The Iowa Homestead

VOL. LVIII. NO. 28 DES MOINES, IOWA, JULY 10, 1913. WHOLE NO. 2909

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FEEDING TIME

Regal

Regal Underslung Best for Country Roads

Hundreds of representative farmers who are the best and most critical automobile buyers, have selected Regal Underslung Cars and found they rendered constant, lasting and efficient service on country roads. Today Regals are found in every rural district.

The Underslung Construction—the frame below the axles—insures you against skidding and turning turtle. Ample road clearance is provided. The distinctive spring construction make the Regal the easiest riding car in the world, saves your tires and greatly reduces stress and strain on all working parts. Regal cars are born hill climbers. No car assures more power to come and go as you desire.

These values combined with remarkably low prices —*all around $1,000*—have made Regal Underslung Cars favorites with the farmers. You can have your choice of a touring car or a roadster.

Write today for instructive Regal booklet. We will mail it to you together with the name of the Regal dealer in your locality. Call on him and he will give you a demonstration.

Regal Motor Car Co.

207 Piquette Ave. **Detroit, Mich.**

$950

Regal Model "T" Underslung Touring Car

Extra equipment, top, windshield and speedometer—$75

Other Regal Underslung Cars are Model "N" Roadster and our Colonial Coupe

28

HOMESEEKERS LOW FARES TO CANADA

Come to Canada now and let us help you pick a choice farm before the best are taken. The Canadian Government is now distributing 135,000 FREE fertile farms along or near the **Canadian Northern Railway**—Wheat Farms, Poultry Farms, Dairy Farms, and farms adapted to cattle, hog, sheep and horse raising.

Even if you have already located your farm you should travel to it over the **Canadian Northern Railway** and have the added advantage of traveling from 1,550 to 2,500 miles through Canada's richest farming country.

Just glance over these low rates—tickets are first-class, round-trip, good for twenty-five days, with stop-over privilege. Excursions every first and third Tuesday, via Duluth and Ft. Frances, or via St. Paul and Winnipeg.

To From	Chicago	Duluth	Des Moines	Kansas City	Omaha	Minneapolis or St. Paul	St. Louis	Sioux City
Dauphin, Manitoba	$37.50	$24.15	$37.35	$42.05	$36.45	$27.85	$46.10	$33.15
Regina, Sask.	35.00	30.00	37.50	43.50	37.50	30.00	44.60	34.50
Saskatoon, Sask.	37.50	32.50	40.00	46.00	40.00	32.50	46.50	37.00
Prince Albert, Sask.	37.50	32.50	40.00	46.00	40.00	32.50	46.50	37.00
No. Battleford, Sask.	39.95	34.95	42.45	47.50	42.45	34.95	48.95	39.45
Edmonton, Alberta	46.50	39.50	46.50	47.50	46.50	39.50	50.50	46.50
Kindersley, Sask.	41.50	36.50	43.50	47.50	43.50	36.50	50.50	40.50

(Rates from and to other points proportionately low)

Western Canada welcomed 140,000 Americans last year and will welcome you. American farmers are getting rich on Canadian farms. It's your turn now.

Get these FREE BOOKS Mail us a post-card or letter *today*, stating your destination. Ask for "Homeseekers' Guide"—"The Breadbasket of the World"—"Peace River Country" and how to reach it—full of facts and authentic information. *Write today* and find out how you can get a fertile 160-acre farm free.

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General Agent
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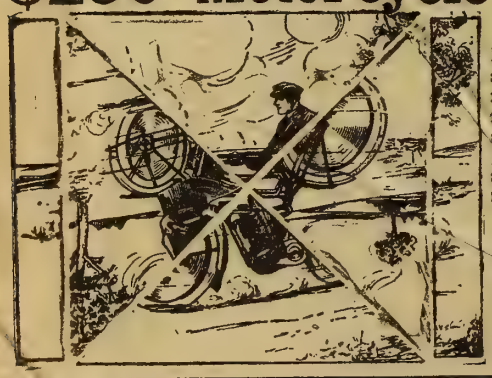
St. Paul, Minn.

CANADIAN NORTHERN

CANADIAN NORTHERN RAILWAY

$250 Motorcycle Given Away



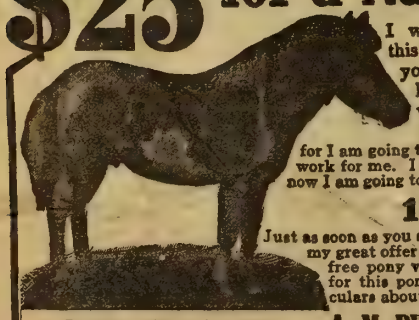
Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Popular Company
507 Popular Bldg. Des Moines, Iowa

$25 for a Name for this Pony



I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

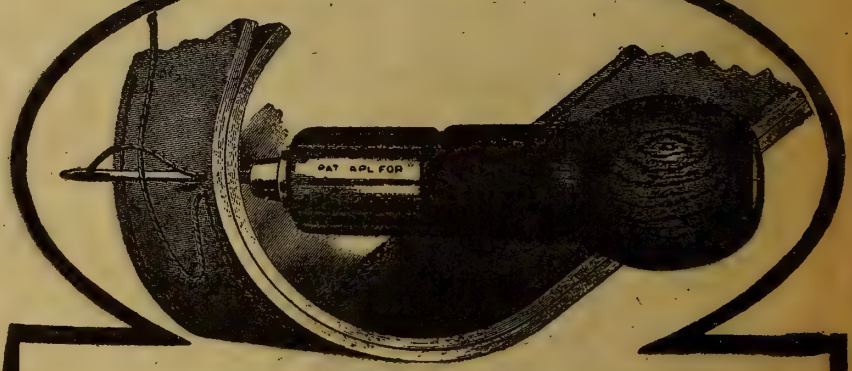
for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony vote and full particulars about the pony as soon as I hear from you. Write me today.

COPYRIGHT, 1913, BY A. M. PIPER

A. M. PIPER, 650 Popular Bldg., DesMoines, Ia.



DOES YOUR

Harness Need Mending?

SEEDING, corn plowing, haying, harvesting and threshing are destructive to harness. No doubt your harness needs mending. Any one can mend his harness with my Speedy Stitcher. The job will look just like a harness maker had mended it.

The Speedy Stitcher is the latest invention and the most effective of anything in the form of an Automatic Sewing Awl ever offered. Its simplicity makes it a thoroughly practical tool for any and all kinds of repair work, even in the hands of the most unskilled. With this Awl you can not only mend harness, but shoes, tents, awnings, pulley belts, carpets, saddles and suit cases.

The Speedy Stitcher with a set of grooved needles, including a draft stallion needle for tapping sewing machine needle for tapping shuttles, contains a large bobbin for less the thread feeds. Any firm bobbin are enclosed. Come to out of the way. tion market tension which end draft breeds. your stitch. The MER WILL you will not Creston, Iowa.

MY BIG FREE OFF

I will give one of these excellent Speedy Stitche anyone who will send me $1.00 for one year's subs stead.

Kindly use the coupon below and be sure to before you forget it.

JAMES M. PIERCE - DES

USE THIS COUPON

Date .....

James M. Pierce, Pub. Homestead, Des Moines.
Dear Sir:—Enclosed find $1 for one year's stead. For my promptness send me postpaid Stitcher.

My name is.....

Postoffice .....

Rural Route..... Stat

NS
ponies for sale. inners. Write us **Sons,** Aurora, Ill.

ATTLE.

BULLS
me of them by the hout question one of Order today, or write s. Mention The Home-lles, Plattsmouth, Neb.

G RED POLLS
rains and with best qual-viceable age. Breeders' d. Farm reached either or Barnum on I. C. **BARNUM, IOWA.**

ED POLLS
olled bulls and a limited sale. Also spring and fall s H. Holm, Osceola, Neb.

G RED POLLS
strain of prize winning breed. Stock for sale. address. **Holbrook, Nebraska**

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JULY 10, 1913.

A PURE-BRED HOG FARM

Tidy Buildings—Economical Arrangement—Energetic Management—Fairness in Business Dealings—The Things That Go to Make a Successful Business.

PICTURES on this page are made from photographs taken on a progressive Iowa farm which is devoted almost exclusively to the business of producing pure-bred swine. These sightly, well-planned, well-cared-for buildings are merely a reflection of the close attention to detail that is exercised in every feature of the conduct of this breeding farm. The perfection of equipment, the energetic management, and the well-balanced judgment displayed, have brought a well-earned reward to the owner—a young man who possessed little else than the qualities referred to as capital with which to begin his operations.

The purpose of the farm is to produce registered hogs to sell to farmers. The plans of the improvements are all laid with the object of facilitating the operations of the business. Realizing that growth, thrift and progress of animals depend upon their bodily comfort and peaceful surroundings, every arrangement of lots and buildings is made with the aim of promoting those ends.

The principal building is that shown in the large engraving. The view shows the south exposure. That section showing the windows is perhaps 24x60 feet in size. A wide alleyway extends the entire length. The south section is cut up into farrowing pens with removable partitions so that it may at other times be utilized as a feeding floor or for sleeping room. The north section is used for grain bins, storage, etc. A short addition facing west is divided on the same plan. The larger section at the east end is used as a feeding floor, and for such other purposes as circumstances may demand. It is arranged for temporary seating to accommodate the auction sales that are held in it in fall and spring. The building has a concrete floor throughout. The floor is also built about eight feet wide around the outside. The system of light and ventilation leaves nothing to be desired. During the early spring farrowing season the sunlight reaches just where it is needed, while the plan of ventilation prevents drafts.

A smaller separate building accommodates growing pigs. Small individual houses are also provided so that the hogs may be cared for under any conditions that may be presented. In addition to the buildings, there are concrete feeding floors, automatic water supply, sun shades, automatic salt and ashes feeders, and steel wallowing tanks. Everything on East Side Farm is built in an attractive and substantial manner. Nothing is unpainted. No accumulation of trash or manure is permitted. No untidiness is evident. Convenience with a view of economizing labor is studied.

Not many breeders have been as attentive to all the details and little niceties of the business as has the owner of East Side. And it follows that few have been accorded the same degree of success as he. He cares for his stock as he cares for his buildings. He knows every pig and every pig knows him. They are on good terms with each other. So they both get along.

As soon as a little pig thinks he is big enough to eat, he somehow finds a nice corner with a supply of corn or ground feed that nobody else knows about. As soon as he feels like snuggling down in the long grass or nibbling a few green shoots a little private gap in the fence leads to a blue grass pasture, a clover field, or a juicy rape patch. When he feels the need of a bath he knows just where to find the steel bath tub half filled with scented dip that soothes his itching spots and kills lice. And when he wants to take a cool and quiet snooze he knows of a spot under a kindly roof that gives a shady, airy sleeping place all his own. Practical and economical methods of feeding are employed. A variety and enough cause thrifty growth and vigorous muscular development. The place has a reputation for producing pigs with size and pork-making qualities. East Side has also a reputation for fairness in business deals. Acting on the principle that right is right, the owner always gives patrons value received and in case of doubt he invariably gives the other fellow the big end of the bargain. The obligations of East Side Farm are always fulfilled.

EAST SIDE FARM HOG HOUSE—FARROWING PENS, FEEDING FLOORS, STORAGE ROOM AND SALE PAVILION.

AUTOMATIC WATERER AND WALLOWING TANK.

CONCRETE FEEDING FLOOR, SHADE AND WALLOW.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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SUBSCRIPTION RATES—Single subscription, $1.00 a year. In clubs of ten, 75 cents a year and an extra copy to getter up of club. In clubs of fifty or more, 30 cents a year. Single subscription three years in advance, $1.50; five years in advance, $2.25; ten years in advance, $4.00. Subscription price in Canada, $1.50 a year. Remit by draft, registered letter, postoffice or express money order. In changing address, send both the old and new addresses. In renewing, give the same name and initials as you gave before or state both the old and new names, and explain why you make the change. In case of errors or failure to receive the paper within two weeks, promptly notify the publisher. Address all letters to

THE HOMESTEAD COMPANY,
Des Moines, Iowa.

SUMMER WORK ON PERENNIAL WEEDS.

A subscriber from Audubon county, Iowa, is having a serious encounter with the Canada thistles. He finds that in spite of heroic methods of destruction that have been adopted they are gaining on him, hence the appeal to this paper for advice.

In fighting this pest one must understand in the first place that it is perennial in its root character, or in other words, it propagates itself from year to year by its root system and therefore is not dependent on seed for its continuation or even for its ability to spread because the roots are constantly creeping along below the surface of the ground.

Where these pests have infested a considerable area there is only one way to proceed to kill them out, namely, to plow the land and afterwards keep it in continuous cultivation during the balance of the season. There is no better time to get in deadly work in the beginning than to plow some time in the month of July when the soil is dry. There is no special advantage in plowing deeper than five or six inches because the cutting of the rootlets simply means the more rapid spread of the thistles unless growth is headed off by constant cultivation. Where the soil is exceedingly dry when it is plowed little work may be required on the surface during the next month, though it is an excellent plan to disk the ground two or three times immediately in order to prevent the further drying out and insure the complete destruction of such thistles as may not have been covered by the plow. During the late summer and fall months the disk should be used whenever the thistles begin to show themselves above the surface. Under no circumstances should the leaves be allowed to form because this only affords the root system an opportunity for development. The root must die or rot if it cannot be sustained by the carbon of the atmosphere obtained through the medium of the leaves and stems. It is true that this heroic method we have outlined means that the use of the land must be given up during the summer, but where one is so unfortunate as to have part of his land infested with this pest he can well afford to take a season to make a sure thing of their destruction.

PLOWING A DRY SOIL.

The average man has a natural aversion for the kind of labor involved in plowing a hard, dry soil. Because of this stubble lands after the removal of small grain crops are frequently allowed to remain unturned for several weeks after harvesting, much to the detriment of the soil itself as well as to the unfavorable effect on the following crop.

Where perennial weeds exist in the soil, such as morning-glories or thistles, a real hardship can be imposed upon these pests by plowing the soil to a good depth when it is dry. We have known instances where a crop of these perennials has been absolutely killed out by this plan, if followed up in the fall with an occasional surface cultivation.

In some instances men who have planned to start an alfalfa field have felt themselves obliged to pass the matter up, simply because their soil was dry after the removal of a grain crop. As a matter of fact in most cases if the land is plowed as soon as the crop is removed there is usually under average corn belt conditions sufficient rain during the following weeks to mellow the soil and thereby afford opportunity for making the seed bed friable and firm.

It takes more horse power, it is true to handle land when it is in this condition, but as the work usually comes at a time of year when other forms of labor are more or less slack one can afford to take a little more time and reasonably expect that the outcome of such labor in actual dollars and cents will fully justify the practice here recommended.

A WORD ON PAINTING WOOD.

We are not prepared to furnish facts and figures showing to what extent the life of wood structures is prolonged by sensible use of paint. Indeed whether there is any profit in painting or not might be a debatable point, but as to the wisdom of using paint on all frame farm buildings there can be no question whatever. If for no other reason than for appearance's sake money invested in good paint properly applied actually pays dividends.

The United States Department of Agriculture strongly endorses the plan of keeping both buildings and farm machinery painted and in a bulletin on the subject gives some of the principles that must be kept in mind by the amateur painter. According to this bulletin all wood is more or less porous, and the natural result of applying a substance like paint to such a material is that the liquid portion sinks into the wood and leaves a large portion of the solid material on the surface. Also different parts of the wood will differ in porosity, and there will tend to be different amounts of paint left on different portions of the surface.

In order to do a good job of painting it is practically always necessary to apply several coats to new wood. The first or priming coat is made thinner than the others, the amount of thinning depending upon the porosity of the wood. For ordinary pine, a paint of proper spreading consistency when mixed with an equal volume of raw linseed oil, generally furnishes a good material for priming. With very porous wood, such as redwood, more oil may be added. The priming coat should be applied with as much care as any other and should be thoroughly brushed into the wood, the brushing being carefully done so that the paint is evenly distributed, with no tendency to run. It is the custom of many painters to add a great deal of drier and of turpentine to the priming coat, and to apply the other coats almost immediately after finishing the priming. This is not good practice. The paint for priming should consist of the pigment, linseed oil and a minimum amount of drier, with no turpentine or benzine; and after applying it at least a week and preferably longer should elapse before putting on the second coat.

Three coats at least are generally necessary to make a good piece of work. The effect of the priming coat, if properly applied, is to fill the pores of the wood and furnish a foundation on which to apply the subsequent coats. Owing to the different porosity of different parts of the surface, it is almost impossible to completely fill with one priming coat, and an attempt to get a good effect by applying the finishing coat immediately on top of the priming generally results in failure. A second coat will not penetrate to any very great extent into the wood. It should not, however, dry with a gloss, because a glossy surface does not furnish a good foundation for the next coat. In order to prevent the gloss, most painters add turpentine to the paint for the second coat; the amount used, however, should be small—to each gallon of paint about a half pint of turpentine in hot weather, or a pint in cold weather, is sufficient. The second coat, which of course should have been evenly spread and well rubbed in with the brush, should be allowed to dry somewhat longer than the priming coat. The third, or finishing coat should be one which will dry with a gloss, and for this purpose there should be no turpentine or thinner added to the paint at all. This method is one which is advocated by a large majority of authorities on the painting of wood, but is seldom carried out by painters, the tendency being to add excessive amounts of turpentine or benzine, unduly thinning the paint and making it possible to spread it in thin, even coats with less labor than would be required for the same thinness and evenness when paint of a proper consistency is used.

1913 IOWA STATE FAIR.

With $76,000 offered as premiums in the various departments and with larger and finer exhibits promised than ever before the fifty-ninth annual Iowa State Fair, which opens at Des Moines, Wednesday, August 20th, promises to eclipse all previous records. The Iowa fair has the usual distinction of opening the circuit, which means that it will have no competition for that week and that the entries and exhibits will be in the pink of condition. Sec. A. R. Corey announces a number of important innovations, chief among them being the competition for the National Draft Horse Breeders' Futurity Stakes, competition for the Poland China Futurity Stakes, an enlarged fish and game exhibit, a third babies' health contest and a boys' state fair camp similar to the one which proved so successful last year. This latter offers a free trip for one boy from each county in the state and last year proved to be an educational feature second to none. The State Board of Agriculture has turned over to the fish and game department twenty acres of land for a state game preserve. Inside this enclosure will be located feed house, breeding pens and the largest and finest exhibit of game birds ever shown at the Iowa fair.

While the contests for agricultural supremacy will be more strenuous than ever, the amusement features of the fair have not been overlooked. Three bands, including the famous Liberati's Concert Band of forty-two pieces and six grand opera singers, have been secured. The spectacular production for the night show will be the fireworks display known as "Old Mexico," showing scenes in the southern republic in the late forties, at the time of the invasion of the American troops under General Winfield Scott. Many new and valuable features will be added to the live stock and hippodrome night show, so that all who attend will find ample and divers means of amusement as well as of education.

Cash prizes offered in each department for the 1913 fair are as follows:

Horses	$14,686.00
National Draft Horse Breeders' Futurity (estimated)	4,000.00
Speed events	15,700.00
Cattle	15,868.00
Swine	4,200.00
Poland China futurities	980.00
Sheep	2,868.00
Poultry	2,101.00
Agriculture	4,284.00
Pantry and kitchen	828.50
Honey and bees	411.00
Dairy	657.00
Horticulture	1,827.75
Floriculture	1,470.00
Fine arts	1,862.00
Work of children	170.50
School exhibits	968.00
Dog show	1,000.00
Babies' health contest	500.00
Boys' judging contest (scholarships)	650.00
College exhibits	800.00
Total	$75,831.75

The fair opens Wednesday, the 20th, and continues until Thursday, the 28th, thus opening two days earlier than has been the custom heretofore. Saturday, the 23d, will be known as Des Moines day and will be one of the big days of the fair, whereas this has heretofore been held on Monday. It will therefore behoove every visitor to come to Des Moines earlier this year than heretofore, so as to lose none of the big features promised.

THE ABUSE OF AUTOMOBILES.

The automobile tourists who found brush piled upon the road by indignant farmers had only themselves to blame for these obstructions, for in their eagerness to break records scorching across the country they were all too heedless of property rights and even of human life. Even in this day of farm-owned automobiles, when such states as Iowa and Kansas report as many motor cars owned by farmers as by city men, there remains farm opposition to the automobile, founded almost entirely on the driver's reckless disregard of the farmer's rights. The story comes from Kansas of an official of one of the transcontinental highway routes setting forth to discover the reason of farm opposition. He found it to lie entirely in the carelessness displayed by the automobilists to the rights of others. Here is his report in detail in regard to one section of the route:

I have been getting down to the grass roots to find out why some farmers are opposed to improvement of cross-state automobile roads, such as the Santa Fe trail. I had imagined it was a matter of taxes, and that the farmers were opposed to money being spent for road improvement. But that is not the cause. Dead chickens cause more opposition than taxes. In Franklin county, where there has been more difficulty than anywhere else in the state, in getting county road improvement, I found that nearly every kicker had been losing chickens. "Those joy riders come along the pike lickety-split and kill the chickens; run down the dogs and never think of even apologizing," one Franklin county farmer told me. "That's why I don't want to see any improved road near my farm. I'd rather drive in the ruts and save my chickens."

Where the good road promoters and the automobile enthusiasts encounter farm opposition it is almost always the result of some such heedless disregard of others' rights as reported here. The motor car driver has only himself to blame. He is his own worst enemy, in this matter of good highways over which to scorch at top speed. Nothing of recent adoption has greater reason for being or more justification than the automobile, but its abuses are as numerous and as flagrant as its uses. There are altogether too many men who think that the possession of a motor car exempts them from the ordinary statutes, not to say civilities. When this abuse has been corrected farm opposition to automobile highways will have disappeared.

AMOUNT OF GRAIN TO FEED PIGS ON CLOVER OR ALFALFA.

The Missouri State Board of Agriculture has carried on a campaign to obtain information in regard to the practice of farmers in the feeding of grain to hogs when legume pastures are used. Out of 153 replies to the question as to whether hogs will make a satisfactory gain on pasture alone, 121 replied in the negative. This means that practically 80 per cent of those to whom the inquiry was addressed believe in the plan of feeding grain. Among the thirty-two who were able to obtain satisfactory gains without grain sixteen of the replies came from men who adopted the practice only when the legume was in bloom. From this it is inferred that there is a time when either red clover or alfalfa will under favorable circumstances produce reasonable gains on hogs in thin flesh.

In an experiment conducted at the Nebraska station lasting sixty-three days, with ten pigs, it was demonstrated that pigs weighing seventy-five pounds each did little more during the period of the experiment than hold their own. Each pig in this lot gained only one and one-half pounds in the sixty-three days, whereas in the case of shoats fed grain lightly the gain was 21.7 pounds per head during the period covered by the experiment. When a medium grain ration was fed the gain per head amounted to 39.8 pounds, while a heavy feeding of grain produced a gain of 53.7 pounds in the sixty-three days. From the standpoint of grain used the results in this case are in favor of light feed of grain because it required 386 pounds of grain to produce 100 pounds of gain, whereas the hogs on a medium ration required 398 pounds of grain, while those on heavy feed consumed 423 pounds of grain for each 100 pounds of gain made.

In another experiment at the same station shoats weighing fifty-two pounds made a gain of twenty-seven pounds each in ninety-eight days when they were fed one-half pound of corn for each 100 pounds of weight. In another lot where one and one-half pounds of corn were fed for each 100 pounds of live weight the gain was thirty-six pounds in ninety-eight days, whereas a third lot fed two and one-half pounds of corn per 100 pounds weight made a gain of forty-eight pounds during the period of the experiment. In this case it required 124 pounds of grain to make 100 pounds of gain on the light ration, 222 pounds on the medium ration and 332 pounds on the heavier grain ration.

From these results, then, it must be

concluded that after all it is a question of whether rapid gains are desired or on the other hand cheap gains. A light grain ration will produce gains at a very low cost considered from the standpoint of the cost of the grain, though there is another factor that must be kept in mind that it prolongs the feeding period. Where there is plenty of legume pasture and where grain is relatively high the somewhat slower route may in the end be the most profitable. On the other hand where pastures are relatively scarce and grain comparatively cheap the feeding of as much as two and one-half pounds of corn per day for every 100 pounds live weight might be justifiable.

MONEY SPENT ON AUTOMOBILES.

We are in receipt of a letter, this week, from a subscriber who stands in great fear of what he terms the present craze for automobiles. According to his belief, it is going to bring financial ruin to the country, particularly to the middle West. We quote in part from his letter as follows:

The money spent for automobiles and the after upkeep expense is almost too great to comprehend. In looking about my neighborhood it seems to me that to own an automobile and to keep it in running order is what three-fifths of my neighbors are working for. In many instances the buying of cars is along the old order of house and barn building—the last one to buy getting something that outdoes all the others. The cost of these machines and the expense of keeping them ready for the road is not the only bad feature; if it were I might be inclined to keep still, but when I see all this money spent on automobiling going East instead of staying here where it is produced, then I realize what a bad thing the automobile craze is going to be for the central West. It is draining the great corn belt of all the money our corn crops earn for us, and the East is getting it, for there is where the majority of the machines are made. One of these days we will awaken to the fact that we have been acting like fools, and the East, as usual, will have our money.

While this is a great country, in size, in wealth and diversification of crops, it still remains a fact that what is of benefit to one part of the nation is of benefit to all; likewise, what proves a detriment to one portion, proves, in part at least, a detriment to all. Our financial affairs, particularly, are closely interwoven, and it is almost impossible to build up one portion of the nation without all the nation feeling a benefit from it.

This paper does not deplore the fact that the majority of automobiles are made east of what we commonly call the corn belt. It is true we send our money there to buy these machines, but the folks who make them send their money out here to buy what we produce. It is simply a case of exchanging what we produce for what they produce, and it is not in our heart to say that we are not benefited by the exchange.

Of course, there are things more important than automobiles, but after a man has earned for himself and family the needed portion of those things, who can blame him for buying an auto if he and his family have a desire to own one? Is not the farmer, who works harder for what he produces than anyone else, as entitled to the pleasures of an automobile as anyone? We think so, therefore, have not a word of censure for the farmer who is able to own an automobile and who buys one. Furthermore in the case of the farmer the auto is not only a vehicle of pleasure; it has an economic value that has if anything been underestimated heretofore. Its use by the farmer really enhances the value of land by the annihilation of distance between the farm and market centers. It makes a difference whether it requires an hour or two to go to market or on the other hand ten or fifteen minutes. The use of the automobile as carrying agent for small commodities to and from the farm means in the end a saving of the farmer's time, and time never was worth so much in the world's history as it is at present. While it is not claimed that the automobile is as indispensable as the binder, the mower and the silo, yet it already occupies an important place in the economy of farm affairs.

As to the great amount of money now spent for automobiles and on their upkeep, we cannot see financial ruin to the country because of it. The money thus spent is kept in circulation, the same as if it were spent for any manufactured article. The fact that it goes through the automobile maker's hands makes no more difference than if it should go through the lumberman's hands in the purchase of lumber for the fine house or to the furniture maker for the fine furniture to furnish the house when completed. Men who make automobiles must eat, the same as men who build houses, who operate railroad trains and who work in factories of various kinds. The idea is to keep our population supplied with work, at profitable wages. This the automobile industry is doing, so how can it bring financial ruin to the country?

CAUSES OF DECREASE IN RURAL POPULATION.

In an address before a recent country life conference Dr. B. H. Hibbard, of the Wisconsin University, called attention to some of the causes that have resulted in decreasing rural population, and among other things, said:

The tendency toward a sparser rural population has not been confined to the decade just passed. It has been going on for a much longer period, and represents a struggle in the mastery of power. By the evolution of the plow to the huge traction engine plowing outfit of today, of the cultivator from the simple hoe to the modern three-row machine, of the reaper from the scythe and cradle to the self binder, the feeble physical powers of the man with the hoe have been multiplied. Besides plows, cultivators and reapers, there are harrows, planters, seeders, windmills. There is the aid of the ox, the horse, the steam or oil engine, and the electric motor. And they all mean more land farmed by one man, or, in other words, fewer people per square mile of rural territory.

The increased use of farm implements is reflected in the number of horses used. Because of the high price of feed, the horse on the farm is not there for pleasure, but he must justify his existence even more than formerly. He is on the farm to do the work of the farm. While other classes of live stock have decreased in numbers, horses have become more numerous. In Iowa in the past ten years the number of horses at the disposal of the farmer has been raised from five to six. This additional horse, together with the added equipment in the form of machinery, means that a given man on a farm can do a fifth more farming now than ten years ago. He can, therefore, work more acres than he could ten years ago, and he is doing it. The farms are larger. This increase in the size of farms points to the slow movement toward a more efficient unit, and a more efficient unit means economy of the labor factor, or fewer people on a given area.

One of the great economic wonders of recent years is the increase in the price of farm lands. It has more than doubled in ten years for the entire country. But the sections of the West where the price has risen the most rapidly and reached the highest point are just those in which the rural population has reached the highest decline. Throughout the country west of the Hudson river the decrease in population has accompanied an increase in size of farms, and this fact added to that of increasing land values, augments the rise in value of the farm as a unit.

The rise in the value of land seems to be coincident with a decrease in the number of people living on it. It may seem somewhat paradoxical, but it is true within the middle West that the population varies inversely with the land values. The greater the value of the land, the fewer people are living on it. On the high-priced land of the middle West the percentage of tenancy is greater than anywhere else outside the cotton belt. In Iowa in the ten counties of highest tenancy and highest land value, there are 27.5 persons per 1,000 acres of farm land, while in the counties of lowest tenancy there are 34.5 persons per 1,000 acres of land. The tenant is on the average a much younger man than is the owner. A larger percentage of tenants are just beginning married life and the numbers of their families are small.

While the lessening of the farm population is in a measure a serious situation, Doctor Hibbard expresses doubt about the wisdom of society bestirring itself in efforts to replace the population by forcing recruits from the city into the rural ranks. What is needed, he contends, is the promotion of the prosperity of the farm and farmer. It is the belief of this expert that the farmer should get a larger proportion of what the consumer has to pay for food products of all kinds and when some plan is devised whereby this equitable share is obtained by the producer the soil will then be used to a fuller capacity and the whole people will be gainers. Undoubtedly there is an adjustment between country and city employment regulated largely by the degree of justice that exists as shown in the proportion or price which the producer receives for what he has to sell.

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FRICTION REDUCING MOTOR OIL

Friction eliminated from a motor means long life and added power. With friction down to minimum, old cars are kept like new—their value stays intact. They bring the maximum prices on re-sale.

Polarine is worth ten times its cost because it adds to motoring *pleasure*, and stops *depreciation in car value.*

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The product of the World's Oil Specialists after 50 years' experience with every kind of lubricating problem.

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Makers of Special Lubricating Oils for Leading Engineering and Industrial Works of the World (133)

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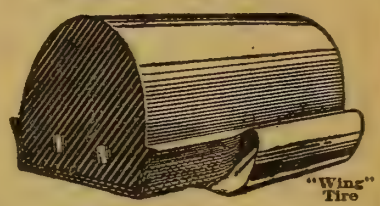
GOODYEAR Rubber Tires

AKRON, OHIO

If you can get for the same money better carriage service and bigger *tire values* than you now get, you simply can't AFFORD to overlook the opportunity. Thousands of farm residents have considered this fact and have accordingly ttered themselves by using one of these famously satisfactory Goodyear Tires.



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Because of the Wing features and fine quality, these tires give about twice the service of ordinary tires. They stay on—wear longer—at same time are very resilient—easy riding and comfortable. Get the world's best. Insist on Goodyear "Wing" Tires.

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The more wearing depth, the longer your tire wears. In Eccentric Cushion Tires you get 50 per cent more wearing depth because the retaining wire is below the center, allowing that much more depth. Means not only easier riding qualities but greater durability.

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It is the first grain elevator ever made and has never been approached by imitators. It leads the field in every way—in make, in capacity, in sales. For engine or horsepower.

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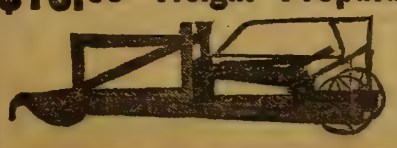

Send for Booklet and circulars telling all about this labor saving machine.

The Cheapest and Easiest way Possible to Cut your Corn for Shock or Silo.

Oregon, Ill., Oct. 26, 1912.

Gentlemen—After giving the Perfect Corn Harvester a thorough working test in all conditions of corn in the cornfield, we write you that it has adjustment for a great variety of conditions in cutting high, medium or low. We are very much pleased at its light draft and steadiness in following the center of the row. We consider it the very best one-horse corn cutter that the experimental station has ever had an opportunity to demonstrate, and we commend it to the corn cutting farmer.

Very truly, Samuel Ray

LOVE MANUFACTURING COMPANY - - DEPT. 4, LINCOLN, ILL.

$750
F. o. b. Lansing.

YOU CAN DO IT WITH A REO

Cheaper than two horses.

Better than four horses.

Are You Awake to a Big Opportunity?

You know how the binder, the threshing machine, the drill, have revolutionized farming. If you don't—ask your father. Just as big an improvement over the old ways of hauling is offered you in this Reo—the farmer's truck. When are you going to start to make the most of it?

REO **Model H 1500 lbs. Capacity MOTOR TRUCK**

Do you stick to the blistering flail and the backaching cradle? Of course you don't; they are relics of the past. Then why do you still depend on horses for all your farm work? Horses must be used for some duties—but for work on the road they are a wasteful extravagance. This Reo truck, long of life, hard as nails, sound as a nut, spavinless, unsweenied, never footsore, can outwork four horses at less than the upkeep of two.

All we ask is that you give us a chance to show you. Just send us your name and address and receive some eye-opening facts.

REO MOTOR TRUCK COMPANY,
LANSING, MICHIGAN.

50 Bushels of Corn on One Gal. of Gasoline

50 bushels of corn per gallon of gasoline! Not an uncommon record with the Lauson Frost King Engine—just an every day performance, that's all. Think of it! Only one-quarter of a cent a bushel for shelling corn. And the Frost King is just as *saving of fuel* on all other farm work—feed grinding, pumping, ensilage cutting, etc.

The Lauson Frost King
Gasoline and Oil Engines

Perfect Balance—Every part accurately ground and fitted. Engine stands quiet even under full load. ***Starts Easily*** on the magneto, without cranking. Sumter gear-driven, built-in magneto eliminates batteries, coils and their expense. ***Takes Less Fuel*** and oil and delivers more power because of special features in design and construction. Highest grade of workmanship and best of materials insure steady running and long life.

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Guaranteed—We absolutely guarantee Lauson Frost King Engines to make good on every claim we make for them; also as to workmanship and material.

Write for Free Engine Book and name of nearest dealer who will be glad to give you a demonstration of the Frost King without obligation on your part.

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Write today *sure* for Phelps' new book on Split Hickory Vehicles. Shows largest selection in America—over 140—full and complete line of harness styles. 167,000 regular customers already. Phelps ships *direct* to you from his mammoth factories—no dealers' profits. You ought to have this fine book whether you buy now or later. It is buggy authority. Then too—

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Don't buy a buggy without Phelps book and low prices. Auto Seat Buggies, Runabouts, Surreys, Carts, Carriages, Spring Wagons, etc.—all of the famous *genuine* Split Hickory construction. Write immediately and get free book by return mail. Phelps pays the postage, too.

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H. C. PHELPS The Ohio Carriage Mfg. Co., Station 31 Columbus, O. 2 Years Guarantee

FARM FURROWS
TURNED BY A PRACTICAL FARMER

This country now has a grater acreage of alfalfa than ever before, and the first two crops already harvested throughout most of the central West have been heavy. Great is alfalfa.

Don't complain if the "town fellow" does satisfy his desire for ice cream this hot weather; it only makes the dairy business all the more profitable.

We need non-producers as well as producers. Non-producers must have what producers produce, consequently that creates good market, at profitable prices. I have no faith in the theory that everyone should get their living from the soil. If a man is able to live without working, the fact that he does not work makes the way all the easier for the man who has to. But I do not believe in keeping men in idleness who cannot afford a live-without-work policy.

A good garden is bought at the cost of considerable work with the hoe, yet, where one has the room, much hoe work may be dispensed with by planting in long rows and far enough apart so a horse cultivator may be used. I notice gardens worked in that way usually stand dry weather better, because horse cultivation as a rule is deeper.

Whenever I buy another mower it will be a six-foot cut. My horses are large enough to handle a larger machine nicely, and when the machine is old, if the cutter bar drags back too much on account of its length, I can cut off a foot.

Usually the purchase of an auto makes a good roads man out of a fellow, but I know of one man who has owned a machine for a year and he has not yet shown any symptoms of road dragging alongside his farm. He wears out tires enough traveling in the ruts to more than make up to him for the work spent in dragging a mile of road.

Pigs may be carried through the summer on pasture alone, but some grain fed in connection returns much more than market price. Grass shoats are usually stunted to some extent when the new corn crop matures enough for feed, and it takes enough more of it to get them in thrifty condition so that feeding grain regularly through the summer would be a cheaper plan.

Every farmer who turns off $500 worth of live stock of any kind during a year, and who owns the farm he tills, should also be the owner of scales to weigh the stock. Taking "short weight" is a great temptation to many a buyer, and a few pounds of beef or pork counts up in money these days.

Getting under the lone tree to save wetting when a sudden shower comes up is risky business. The smaller the shower, it seems, the more deadly the lightning that accompanies it, and a lone tree standing in a field is an inviting attraction for lightning. I would rather take a ducking than to act as terminal for an electric current.

A cone trap to catch flies need not be an elaborate affair, nor large in size. One can take screen wire and make a cone no larger than a tea cup, then mount it on a base that stands up the proper distance to make an entrance all along the bottom, and turn a glass fruit jar over the point of the cone. A pasteboard for the bottom, with the screen cone sewed to it, and tacked to a small block at each corner, is a good plan.

Hard rains followed by warm, clear days make it necessary to order "full speed ahead" in the cornfield.

A neighbor of mine had a wire fence fastened to the corner of his stable and during one of our recent showers a bolt of lightning followed this wire and killed a valuable team in their stall. It is waste of time to tell him now that it is wrong to fasten a wire of any kind to any building unless it is safely grounded. He knows. There are many others that might profit by his experience.

With plenty of moisture in the soil and the thermometer showing ninety in the shade every day the corn is fairly jumping out of the ground. The only drawback about it is that when the corn is growing so fast it is very brittle and great care must be used in cultivating.

It does not take a very bright mind to see that fresh, clean drinking water is needed by little chicks as well as all other animals during this hot weather, but it takes an unusually bright mind to drive a lazy body to supply it.

Fly nets are a necessity, but in addition it is a good plan to apply a liquid "fly chaser" to the horses' legs and bellies in order to protect them from the unswatted pests.

Plant McCULLOUGH'S
Turkey Hard Seed Wheat For Next Year

Plant for a bigger, better, more profitable crop than ever before—

Plant the wheat that is making more and more money for its growers every year—all over the winter wheat belt—

Plant the wheat that out-sells all other hard winter varieties in all the great grain markets.

Plant the wheat that the big millers everywhere are paying the fancy prices for—

Plant my selected Turkey Hard Seed Wheat.

Why It Beats All Others

1. Because of its hardiness and Dry-Weather-Resisting qualities.
2. Withstands Winter-Killing Better.
3. Has Highest Percentage Gluten of any winter wheat—ask any miller.
4. Makes a beautiful WHITE Flour—and MORE BREAD.
5. Not an experiment—but thoroly tried for years past and proven as to yielding and milling qualities.

Right here within 20 miles of me is the farm where "Turkey Hard" wheat was first grown in the the U. S. So I'm "right on the ground," right *in* the original American homeland of this wonderful wheat, right where I watch "Turkey Hard" Hard" grow and select the perfected, pure, and true-to-name crops of it.

Consequently, I offer you the absolutely genuine "Turkey Hard" Wheat—seed that I've expertly selected, thoroughly cleaned, and then rigidly tested for germination—seed whose every firm and flint-like kernel is full of the gluten that will earn 3 to 5 cents per bushel more $ Cash Money $ for you!

So sit down and write me today—now—it won't take but a minute—tell me to send you "Turkey Hard" samples, prices, full particulars—get my proposition at once—before you buy your next year's seed and before my supply of Turkey Hard is all sold.

McCULLOUGH
"The Seed Wheat Man"
210 Sedgwick Bldg., Wichita, Kansas

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are built to stand the wear and tear of years and years of service on our muddy, bumpy, Middle West roads, where cheap buggies get shabby quickly and go to pieces in a few years. When you buy a Kratzer you get a vehicle you will *always be proud of.*

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" " #48 (Nov 27 ")
" " F 5-J (Dec 11 ")

CURRENT EVENTS

AN AMAZING story of legislative lobbying and political maneuvering was disclosed last week, when the Chicago Tribune (to which belongs credit for the Lorimer exposal in Illinois) printed the story of Col. M. M. Mulhall, who for ten years was lobbyist, field worker and strike breaker for the National Association of Manufacturers, an organization embracing 4,000 individual members, employing more than 5,000,000 persons and representing an approximate capital of $10,000,000. Colonel Mulhall has been subpoenaed to appear before the congressional committee which is investigating the lobbying charges and will go into the matter in detail. At present, while many of his charges are specifically denied by interested parties, he has disclosed enough to show that undue pressure has been brought, in the past, to prevent legislation and to elect or defeat congressmen and other public officials because of their stand for or against issues in which the National Association of Manufacturers was interested in a financial way. Colonel Mulhall names a half hundred prominent men, from the late Vice-President Sherman down to numerous grain-belt congressmen, whom he alleges had dealings, either directly or indirectly, with the association. The Mulhall charges will be sifted to the bottom, as they must be if the American people are to have any faith left in the old-school lawmakers. His charges are simply in line with the accusations made by the anti-reactionaries of both old-line parties in the last campaign that there is an "invisible government" more powerful than the lawmakers elected by the people. This "invisible government" must be overthrown if the regular, visible and legal government is to continue. Nothing more important confronts the nation today.

IN THE presence of President Wilson, ex-President Taft, the governors of a score of states and dozens of other notables, 50,000 survivors of the battle of Gettysburg lived over the scenes of that historic, three-day struggle last week. The reunion was a success in every way and notwithstanding exceedingly hot weather, was attended with comparatively little suffering and few fatalities. While the northern veterans surpassed the southern in numbers four or five to one, wearers of the gray were shown every courtesy and honor. When the confederates had been driven out of Gettysburg and the northern troops had regained possession, the Gettysburg girls of 1863 welcomed the victorious northerners with flowers and song. An effort was made to secure the presence last week of the survivors of these civil war girls. Only a half dozen could be found, but they sang the old war songs, while the veterans listened with tears streaming down their cheeks. It was an historic occasion, one which causes the younger generation to pay greater respect than ever to the veterans and to keep alive the memory of a struggle without parallel in the world's history. Ex-President Taft and President Wilson delivered notable addresses, rendering homage to the soldiers of both sides, both being actuated by a conviction that the principle for which they fought was right and truth. If anything more had been needed to prove that there is no North nor South now, but only a united country, the Gettysburg celebration provided it. It revived patriotism, awakened renewed interest in American history and was picturesquely dramatic throughout.

PRESIDENT WILSON'S currency legislation bids fair to be enacted at the present session of congress, notwithstanding the desire on the part of many congressmen to confine the session exclusively to tariff revision. The president is insisting that business conditions will demand currency reform to keep pace with the change in tariff affairs and that the party will be derelict in its duty if it neglects action. The president's plan provides for a central or federal board of control similar in form to the Interstate Commerce Commission and which will have jurisdiction over financial affairs and banking institutions just as the commerce commisson has over railroad affairs and companies. The banking board would consist of six members, appointed by the president and confirmed by the senate, three of them to consist of the secretary of the treasury, the secretary of agriculture and the comptroller of the currency. The bill further provides for the issuance, when necessary, of $500,000,000 emergency currency, this sum being selected because it was found that during the 1907 panic the amount of clearing house certificates issued was less than half this sum and hence this amount would be sufficient to meet any similar panic that might arise in the future. The president believes that with a central board in Washington, having at its disposal half a billion dollars emergency currency and power to fix discount figures on which it will be issued, the days of a money trust will have passed and financial panics will be out of the question. The bill embodying these ideas, known as the Wilson-Glass bill, has already been introduced in congress, and every effort will be made to get it through at the present extra session, coincident with the passage of the tariff bill.

WITH the duties cut even lower than provided by the house the Underwood tariff bill is now on the floor of the senate, after several weeks' discussion before the finance committee. If passed in its revised form it will be necessary for the two houses of congress to get together in conference for acceptance or compromise on the rate changes made since the bill passed the house. In addition to reducing the rates and equalizing them on raw materials and their manufactured products, the senate finance committee has made several important changes. For example, the first sweeping reduction of the tariff on sugar (with free sugar to come in three years) will take effect on March 1, 1914, instead of immediately; the income tax will be operative on March 1, 1913, instead of January 1, 1913; and the minimum exemption income has been placed at $4,000 (with $1,000 additional for a married man and $500 additional for a dependent child) instead of $4,000. It is expected that a good part of a month will be devoted to discussion of the tariff bill on the floor of the senate, after which it will come to a vote, with every prospect of passage, notwithstanding the fact that the two Louisiana senators will vote against it because of the free sugar declaration. Should the vote be a tie the ballot of Vice-President Marshall would pass the bill and bring victory to the democratic revisionists.

It is said that for every five in the increase of population in the past ten years, four live in towns and cities and but one on the farms. This means the increase of population off the farms is as four is to one. If this ratio is maintained the high cost of living is here to stay.

Ask your neighbor to subscribe for The Homestead.

No-Rim-Cut Tires
10% Over-Capacity

The Chief Tire Problem

How to end rim-cutting, for years and years, has been the chief problem of Tiredom.

Many devices have been tried and abandoned. They developed faults. The tires fell down. Thousands came back for replacement.

Every great tire maker, again and again, has tried to make tires that can't rim-cut.

We solved this problem in a faultless tire, and by means that we control. That is the reason why Goodyears now outsell every other tire.

The Ruin of Rim-Cutting

Motor car owners have lost millions of dollars through having tires cut by rims.

The trouble occurs when tires are run wholly or partly deflated. And the ruin can't be satisfactorily repaired.

Myriads of punctured tires have been wrecked in a moment—before the driver knew of the puncture.

No-Rim-Cut tires make this ruin impossible. They have been used for years, on hundreds of thousands of cars. And not one has ever rim-cut.

Over-Capacity

Another fact is that No-Rim-Cut tires exceed clincher tires ten per cent in capacity.

That is, in air capacity. It is air that carries the load. This extra capacity, on the average, adds 25 per cent to the mileage.

So these tires embody two enormous economies. They save rim-cutting and save over-loading.

The Secret Bands of Wire

These tires are made possible by six flat bands of 126 braided wires. They are vulcanized into the tire base.

Thus we get an unstretchable tire base, and we don't hook the tire to the rim.

One glance at these tires in any Goodyear shop will show why these tires can't rim-cut.

We control these bands by secrecy. They are made under lock and key.

And, so far as we know, there is no other way to make a satisfactory tire of this type. Nearly every maker has tried it.

No Extra Price

No-Rim-Cut tires used to cost one-fifth more than clinchers. With our multiplied output the price has come down. Now no standard tire of any type costs less than No-Rim-Cut tires.

There is no reason whatever to try an experiment. No reason for tires that rim-cut, or for tires of less capacity.

You can get at the same price the tire which is now the most popular tire in the world.

GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities — More Service Stations Than Any Other Tire
We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
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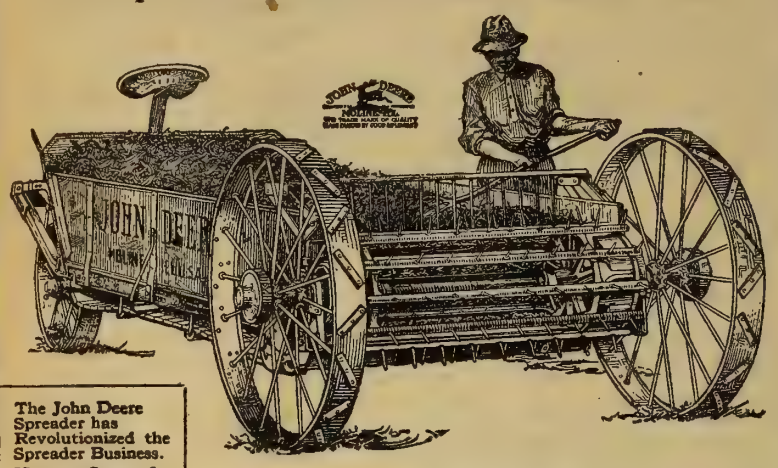
John Deere Spreader

The Spreader with the Beater on the Axle



The John Deere Spreader has Revolutionized the Spreader Business.
Here are Some of the Reasons:

BEATER and all its driving parts are mounted on the rear axle. Power to drive it is taken from the rear axle through simple gears like those that have been used on horse-powers for many years. This construction is patented. You cannot get it on any other spreader.

ONLY HIP-HIGH, easy to load. The top of the box is only as high as your hips. Each forkful of manure is placed just where it is needed. You can always see into the spreader.

FEW PARTS. Clutches, chains and adjustments—in fact, some two hundred parts in all—are entirely done away with. To throw the machine into operation, move the lever at the driver's right back until the finger engages a large stop at the rear of the machine.

ROLLER BEARINGS together with the simplicity of the machine itself, make the John Deere Spreader light draft. There are many more reasons that have helped to make the demand for John Deere Spreaders greater than all those interested in the spreader business thought possible. These features are fully discussed in our spreader book. You can get it free.

The Low Down Spreader with the Big Drive Wheels

What You Want

Here's your chance to get exactly what you want in a manure spreader.

One that is easy to load, light for your horses free from constant repairing, and one that will last as long as you think it ought to.

What You Get

With a John Deere you get a low-down spreader in which the advantage of big drive wheels is not sacrificed for the low down feature.

You get a spreader that is easy for your horses because it has these big drive wheels, together with roller bearings, few parts, the center of the load comparatively near the horses and evenly distributed over all four wheels.

No clutches to get out of order, no chains to give trouble, no adjustments necessary.

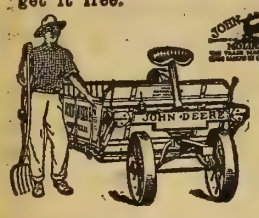
Built with steel frame, securely braced, like modern railway bridges—strong and durable.

Why You Get These Things

Mounting the beater on the axle makes all these things possible in the John Deere Spreader.

It does away with some two hundred trouble-giving parts. It makes the spreader low down. It permits the use of big drive wheels. It does away with clutches, chains and adjustments. It puts all the strain and stress of spreading on the rear axle, where it belongs, not on the sides and frame of the spreader.

It does a lot of other good things, too. They are fully illustrated and described in our new spreader book.



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It tells how the John Deere Spreader is made and why it is made that way. It contains illustrations of the working parts and colored pictures of the John Deere Spreader in the field. It also has valuable information in regard to storing, handling and applying manure to the land.

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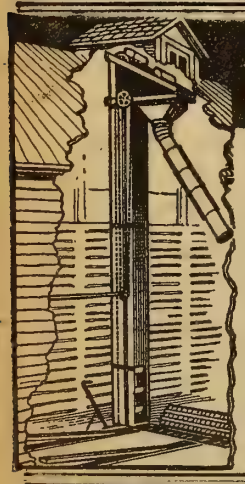
John Deere Plow Co., Moline, Illinois



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THE "Hart" Bucket Elevator is the most massive and securely made elevating device you can buy. Will work under all conditions and handles all kinds of grain, even coal, most economically. Withstands continuous usage without causing trouble This machine, when installed, requires less room, will not block your driveway and is always ready for use.

FINEST quality material is used. Buckets are made of pressed steel 16 inches wide attached to No. 77 sprocket chains. The "Hart" machine absolutely cannot clog. Grain cannot splatter over or carry back at the top. The special front panel, encasing the buckets, makes it impossible for grain to drop elsewhere than into the bin. Machine can be operated with overhead lift or log dumping device.

THE elevator can be installed in any of your cribs—or if you intend putting up a new barn or crib, ask for our **architects plans, furnished free,** to fit your exact needs. Just tell us capacity desired and type of elevator and we'll send information that you should have. Remember—buying the "Hart" machine means having a real elevating plant. Write today for catalog.

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Supplies Its Own Power

You too, can make $200 to $300 clear profit monthly! Farmers pay liberally to have their hay baled by this **solid steel, big tonnage Sandwich** that doesn't break down in the middle of a job—that turns out clean, slick, solid bales, **rain or shine,** one and two a minute.

It has hopper cooled Gas Engine mounted on same truck, 4, 6, 8 or 10-horse power—gear driven magneto—the most complete outfit in existence. The **Sandwich** beats all ordinary presses 2 to 8 tons daily in every working test.

25 tons are its every day job—often 30 to 40.

Full power delivered to Press by **heavy steel roller chain.** It does away with slipping, stretching belts. Simple time-tried self-feeder—with big feed opening.

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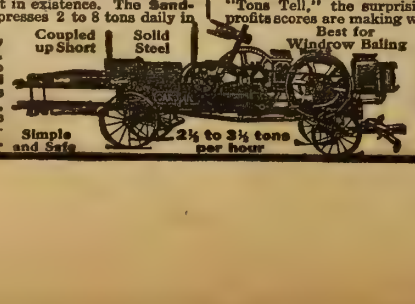

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

TITLE BY ADVERSE POSSESSION.

In the beginning of things, when human society was in a primitive condition, the private ownership of property, both real and personal, was founded upon the actual possession of it. Title to land originated in conquest, and conquest was wrought by force or fraud, and frequently by the exercise of both. Even in this country of high ideals, the title to most of the land, if not all of it, rests upon conquest and possession; the ability of our strong race to take and hold. Possession has always been, and still is, a powerful factor in determining the right to property. So potent is it that the old saying, "Possession is nine points in the law," has become a popular proverb. A good title to real estate may be acquired by what is called "adverse possession." A person being in possession of land claiming to own it, although he actually has no right or title to it, may, nevertheless continue to occupy and use it in such manner and under such circumstances as will give him a good title after a certain period of time. By the common law, adverse possession of twenty years was necessary to confer title. In this country adverse possession is provided for and regulated in every state by what is known as the statute of limitations. These statutes differ from each other considerably as to the length of time adverse possession must continue in order to ripen into a title, but in other respects they are very similar, especially as to what constitutes adverse possession. The general rule is, that in order to give title, possession of land must be actual, visible, notorious, exclusive, hostile to the real owner, and held under some kind of a claim of ownership, continuously for the period of time fixed by the laws of the state in which the land is located. All statutes of limitations are based upon the ideas that persons having claims to property should assert the same within a reasonable time and that it is for the peace of the community that the actual possession of real estate continued for a long period of time should not be disturbed. In some states the possession must be based upon some kind of a paper title, although such document may be defective, or even void. This is called "color of title." In other states a mere verbal claim of ownership, coupled with continuous possession for the required time, will give the occupant good title. Adverse possession when complete gives a good title to the possession against all the world except persons who are under disability of some kind when the possession is complete: for instance, persons under age, insane, or imprisoned, because of such reasons are unable to bring suit for the recovery of the land.

In Iowa adverse possession under color of title or claim of right is complete in ten years.

In Illinois adverse possession under claim of ownership for twenty years gives title, and color of title to unoccupied land, with payment of taxes for seven successive years, is equivalent to adverse possession.

In Wisconsin where a claim to land is founded on a written conveyance or judgment, adverse possession for ten years is sufficient, but if there be no written conveyance or judgment, twenty years of possession is necessary to give title. In Minnesota fifteen years; in North Dakota and South Dakota twenty years. In Nebraska ten years; in Kansas fifteen years: in Oklahoma fifteen years; in Missouri ten years.

LAW QUESTIONS CONSIDERED.

INHERITANCE IN IOWA.

A subscriber, Ruthven, Iowa.—There were five children in a certain family. One of them died, leaving a child. Will

(Continued on page 10.)

"INGECO" Engines

A BIG MONEY SAVER

An engine that you can bet your last dollar on to work right in all kinds of weather—a fuel saver — an easy starter — a steady worker.

The "INGECO" is just that kind of an engine and besides its reliability it has a record for keeping out of the repair shop—it is a marvel of simplicity—there is nothing to get out of order. Once set it runs constantly without trouble.

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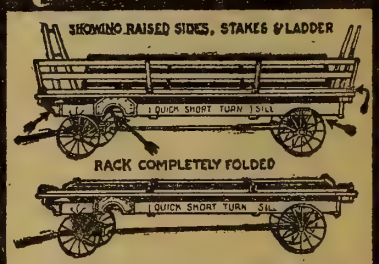

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Home-built racks cost too much for what you get. Lumber comes mighty high bought in small quantities; there is a lot of bolts and clamps to buy; you must pay a carpenter a big price, or use your own valuable time in building; and then add to this the cost of paint and painting. The result — an ordinary hay-rack.

Better buy a "Quick Adjustable," The ADJUSTABLE SIDES have no ropes, no stay rods—nothing to interfere with loading. You can have any of five adjustments, from a wide basket rack, as shown in cut No. 1, to a flat bottom rack as in cut No. 2. There are so many good features in this rack it will pay you to investigate further. Write today.

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on any farm
in one day's operation

THE AMERICAN BUNCHER is an attachment for any mowing machine and will save you enough seed in bunching your red top clover or alfalfa on 10 acres to easily pay its cost. Also bunches timothy, short oats, wheat, flax, and prairie grass. Catalogue **free** to your address.

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SUN Self Heating Irons Save their cost in fuel alone over and over again. Iron better. Save time and labor. Iron anywhere, no wires or tubes to connect "it heats itself" always ready. Sold on trial and guaranteed. Opportunity to make big money. Show the SUN Iron and it sells itself. Write us quick. Write us for descriptive circular and for our Special First Order Offer.

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

FITS.

Our four-months-old calves have fainting spells which last for five or ten minutes at first, after which they stand up and look around. They begin to get lighter and finally can't get up again and die in about a week. Have lost two and another one is sick. We feed them as many oats as they will eat and plenty of hay, with water to drink.

Indigestion is the cause of such fits or convulsions and calves die of apoplexy during such attacks, blood vessels rupturing in the brain. Instead of feeding whole oats, feed bran, cornmeal and flaxseed meal, or ground screened oats. The main feed should be sweet skim milk fed three times a day.

INFECTED SOW.

About two weeks ago one of my sows had pigs, all of which had to be taken. She was sick all day and night and since then she refuses to eat; just drinks slop and lies down most of the time. She was fed corn and ground feed with tankage before she came in.

There is septic inflammation of the womb from infection following the use of forceps, or afterbirth may have been retained. Chance of recovery is poor. Once a day flush out the vagina with a gallon of lukewarm 1-5000 solution of permanganate of potash. Dissolve a dram of granular hyposulphite of soda in her slop twice daily.

ABORTION.

(1) Last fall a sow that was raising a fall litter took sick for a few days and then she peeled off from her ears back to her tail, half way down her sides, taking as much as one-half inch of the fat along in many places. She always eats good and is mostly healed up, but I would like to know what I could put on to heal her up faster? Have used nothing but hog dip. What was the cause? (2) Last January I bought a gilt that lost her litter a week after I got her. She was in a pen adjoining the rest of my herd. After that five of the others lost their litters. They were all in good thrift, fed on corn, oats and a warm swill in the morning of bran, shorts, tankage and about seven pounds of oil meal for twenty head. They had plenty of exercise. Will it be all right to breed them for fall pigs and use the same boar on others?

(1) Sunscald from pasturing rank growths of wet rape sometimes causes skin trouble, or it may come from an acute attack of poisoning or indigestion. The case described is unusual and we are unable to give a confident opinion as to the cause. (2) Overfeeding and irritants in the feed most likely caused the abortions and the new sow was not probably to blame. It is a mistake, however, to let a new bought animal at once mix with the home stock. Pregnant sows do not need such rich feeding as you have been giving. Let them have plenty of alfalfa hay and roots, along with a light slop not containing corn or tankage. Make the sows take plenty of exercise. Breed the sows again to same boar.

CHOLERA.

Twelve Duroc Jersey sows were to farrow this month. The first one that I noticed was sick, died April 16th, and though she acted as though she was going to farrow she didn't have any pigs. A veterinarian whom I called said it was cholera. After that another one died. She turned black under the stomach and a big lump formed on the left side. The third one that died was in great pain and quivered all over. The nine that are left are having their pigs, but the pigs don't seem to be nearly grown, although it is time for them. The sows are all so stiff they can hardly move. These hogs have been fed lye since October, also corn and oats. I moved on this place this spring and I understand there was cholera here last fall. However, I cleaned up and disinfected the hog house before I turned my pigs in. After the first one died I shut up the house and lot and before I could get a new one built a cold rain came which probably has something to do with the stiffness. Will these sows do to breed again?

As the veterinarian diagnosed the trouble as cholera, after making a post-mortem examination, we could not presume to give a contrary opinion; but we have no hesitation in stating that it is unnecesary, and wrong to give lye, or any other drug, right along to pregnant sows, nor do any swine require to be drugged right along for months. It is also quite possible that the exposure caused sickness or stiffness. The sows may be bred again when fully recovered.

CHOLERA.

I have about 100 pigs ranging in age from two months down to a day or two. Yesterday the cholera broke out about a mile away and I would like to know if the pigs would take the cholera if I would have the sows vaccinated with serum or serum and virus both. Would it be advisable to vaccinate sows which will farrow in a week or so? Would you advise using just the serum or both in my case? I understand it is not practical to vaccinate young pigs.

The pigs will be liable to die if vaccinated and it would not be wise to use the double vaccination on the sows. Both sows and pigs may be given the single vaccination and both may have the double vaccination when the pigs have grown to fifty pounds weight, or thereabout.

SPAVIN.

Have a black driving mare, weight about 1,100 pounds, and eight years old, that I think has been kicked in the stifle. She has been lame for about a month. When standing she rests the left hind foot on the toe and it pains her to step to one side in the barn. She is worse when starting and when trotting. Have used some liniment and trimmed her toe. Last year she had a spavin on each leg, but I think they are cured.

The spavin is the cause of the symptoms described and you should have it and the entire hock joint fired and blistered by a veterinarian and then tie the mare up short in a stall for a six weeks' rest.

COL. T. C. CALLAHAN DEAD.

It is with sincere regret that we announce the death of Col. T. C. Callahan, at Omaha, Neb., on Saturday, June 28th. Mr. Callahan was one of the best known and best liked live stock auctioneers, and for the past twenty years was one of the most successful salesmen in the middle West. He had not been feeling very well for a couple of weeks, but he had a real estate sale at Creighton, Neb., on Friday, the day before his death, and was returning from there when he was overcome with heat prostration on the train. His son went to the depot to meet him and was surprised to find the trainmen taking him off the train in an unconscious condition. He was removed to the Nicholas Sen Hospital at once and died at 11:20 that night without recovering consciousness. Colonel Callahan was fifty-nine years of age and was born at Kenosha, Wis. For a great many years he lived at Friend, Neb., and was engaged in the hardware and lumber business. He represented Saline county in the legislature one term and held other important places of trust. About twenty or twenty-five years ago he began selling pedigreed live stock and became one of the most successful salesmen in the West. He was well liked by the entire breeding fraternity, absolutely reliable and trustworthy in all his dealings and had a host of friends throughout the central West who will mourn his departure. He was buried at his old home in Friend, Neb., on July 1st. He leaves a widow and two children, who reside at Omaha, Neb.

Using steel fence posts may not be the cheapest way of grounding wire fences, but it is cheaper than trusting to luck and memory in keeping insurance policies in force. With cattle and horses at their present price the loss of a single animal is more than the cost of a load of posts.

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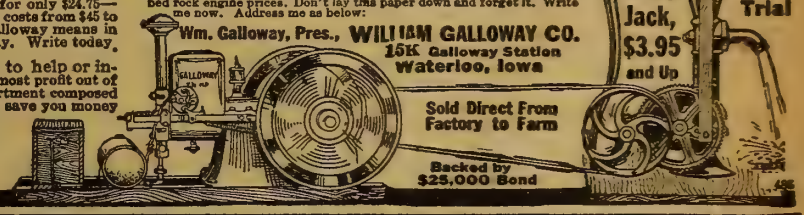

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I'll stop your usual summer losses from worms. I'll promptly rid your stock of these blood-sucking, profit-eating, dangerous pests and put your animals in better summer condition than ever before. I'll do it at my risk—not yours. You need not pay me a single cent if I fail. I'll do it with Sal-Vet.

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"Sal-Vet" requires no dosing, no drenching, no handling, no trouble at all. Simply place this wonderful medicated salt where all your stock can run to it freely and THEY WILL DOCTOR THEMSELVES. You will be surprised how they will keep in better condition—thrive better—gain faster—make you more money. I'll prove it right on your own farm at my risk before you pay.

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Fill out the coupon at right—tell me how many head of stock you have and I'll send you enough "Sal-Vet" to last all your stock 60 days. You simply pay the freight charges when it arrives. If it fails to do what I claim, I'll cancel the charge—you won't owe me a penny. Address

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In10 days after I commenced feeding my lambs Sal-Vet, they began to gain flesh and now Oct. 3rd they are in perfect health and fat as they can be. I have used tobacco in large quantities and worm powders of three different kinds and they did no good. J. A. ALEXANDER
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IDEAL 612-acre potato, corn, small grain and dairy farm with $10,000 farm equipment, including new gas tractor, plows, separator, 14 horses and 30 grade Jerseys; 100 acres timber; farm fenced. $8,000 worth new buildings, consisting of 10-room modern house, with furnace; large hip-roof barn, small dairy barn, machine shed, 7,000 bu. granary with grain-lift, ice house with refrigerator rooms, chicken house, 2,500 bu. potato cellar, and 3,000 bu. roofed corn crib. Good well and windmill. 500 acres now in crop. Reason for selling: My duties as U. S. district judge prevent my giving farm proper attention. This farm is beautifully situated high and dry on Red River, 3½ miles from station in best portion of Red River Valley of North Dakota; 10 miles north of Fargo, city of 18,000 with several colleges including state agricultural college. Price $100 per acre, including crop and above equipment. Reasonable terms. Only responsible persons need apply.

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LEGAL DEPARTMENT

(Continued from page 8.)

this child inherit from its grandparents the share which would have come to its parent if living, getting an equal share with the other four heirs?

Answer.—The child will inherit from its grandparents an equal share with the other four heirs, getting the same share its parent would have received if living.

CHANGING FENCE AND ROAD.

A Subscriber, Volga City, Iowa.—(1) A lives on the east side of the road and B lives on the west side. B has furnished all the road through the middle of his field for several years. In 1855 B filed a petition and had the road changed over to the east fence which is the line between the farms of A and B and has been the line for ten years or more. Two years ago A moved his fence out to the road. What steps must B take to compel A to move his fence back? (2) In another township A and B each furnished half the road and A set his fence out on the road, claiming the line goes west on B's land. The road has been traveled for over sixty years. What steps should A take to change the road?

Answer.—(1) B will have to bring a suit against A in the circuit court of the county. (2) A should file a petition for a change of the road, in the office of the county auditor, addressed to the board of supervisors. A commissioner will then be appointed to investigate the matter and make a report and a day will be set for hearing before the board of supervisors, when they will decide whether or not such change will be made. A must give a bond to pay expenses of the proceeding in case his petition is denied.

FENCE UNDER BRIDGE—OBSTRUCTING STREAM.

Mr. Thos. O'Boyle, Fort Dodge, Iowa.—A railroad right of way divides two farms. A large creek runs across the right of way, and across both farms. The railroad crosses the creek on a long trestle-work bridge. The railroad foreman says the railroad company is not required to maintain a fence across the creek at the bridge. Stock from adjoining farms cannot get on the railroad track, but can pass under the bridge from one farm to the other. Owners of the two farms have kept up the fence under the bridge. (1) Whose duty is it to keep up this fence? (2) The bridge piling or supports are so close together that ice lodges and causes near-by land to be flooded in the spring, taking out some of the fences. What remedy have the farmers?

Answer.—(1) The owners of the land will have to make and keep up the fence under the bridge, as the railroad company is not required by law to do it. (2) The owner of the land that is flooded on account of the close piling of the bridge can recover damages from the railroad company for the injury so caused, and may obtain an injunction restraining the company from so obstructing the flow of water.

TAXES IN TWO STATES.

A Subscriber, Garden City, Minn.—The first of last March I moved from Iowa to Minnesota, taking with me my personal property. This property was assessed to me for taxation in Iowa in February, 1913. In May following, the same property was assessed to me for taxation in Minnesota. Must I pay taxes in both states?

Answer.—We know of no way by which you can avoid paying taxes on your personal property in both states. Taxes in Iowa are assessed to the person who owns property there on January 1st, and in Minnesota to the person who owns it on the first day of May, and there is no provision of law in either state for abatement or refunding the taxes in such a case as you state.

If everyone who owns or cares for dogs would see to it that the animals had plenty of water to drink during the summer months there would be fewer cases of rabies. There are doubtless hundreds of people to whom this simple precaution never occurs, and who just take it for granted that their canine friends can, of course, find water somewhere whenever they are thirsty. This applies to other animals as well, but dogs are the principal sufferers.

The "Armstrong mower" should be overhauled and sharpened because the battle with the weeds cannot be completely won without its use. Nooks, corners and under fences and some places along the road it is impossible to use a team. This is where the "Armstrong" shines.

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The **"FLOWER CITY"** has many distinctive features. The bevel gear transmission is worthy of special mention. The gears are made of forty-point carbon steel and are practically indestructible. The complete transmission, together with the drive pinion and belt pulley are mounted on one shaft and are controlled by one lever.

The over-head valve is also a feature of the **"FLOUR CITY."** It is conducive to perfect ignition, combustion and economy, opening direct into a cylinder free from valve pockets; the full energy of the charge is utilized, and the constant necessityof re-grinding the valve is eliminated. These features will appeal to any mechanical mind. Our catalog, giving all details, will be sent on request.

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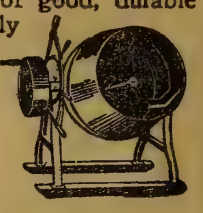

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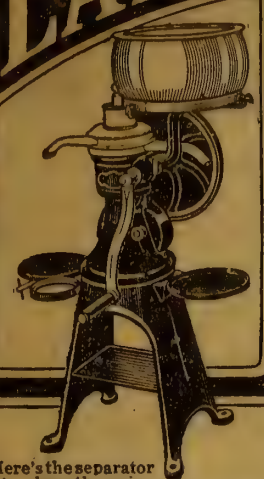

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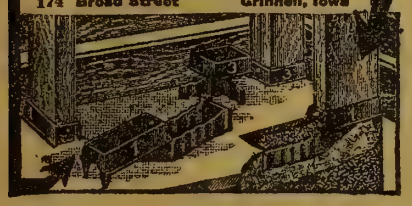

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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE RIGHT START IN DAIRYING.

To the Editor of The Homestead:

There is always a wide margin between the possibilities and the probabilities. It may be figured what it is possible to make in the dairy business, and with the expectation of great profits from the start a large sum of money may be invested in high-priced cows without duly considering the lack of experience, the marketing facilities, the nature of the farm and other matters upon which success must depend. While dairying is profitable under proper management, yet like any other business it requires forethought and business methods. Success cannot come out of haphazard effort.

Jumping into the dairy business is something like "falling in love." Those that jump in a short time are "off again, gone again," and say they are thoroughly convinced that dairying does not pay. A much better way is to grow into the business and to take each step as the way opens.

One may read of the great dairy interests of some localities and marvel at the amount of milk that may be produced in a given time, but when the trouble is taken to investigate the history of the industry, one finds that it was not established in a day. That, in fact, it came about through evolution, through a great interest in the business, a thorough knowledge of the best ways and methods, and a high appreciation of its possibilities.

The great problem in any undertaking is to know, and no matter how great the effort, if it is not wisely directed it is sure to end in failure. In seeking a better understanding of the business, perhaps the first thing to consider is the standing of the individual cow. This can be ascertained by the use of a tester, and no time should be lost in getting rid of the boarders. With the best cows a foundation for the future herd should be laid, and by the judicious selection of a sire, in a few years a herd may be had that any dairyman would be proud of. With this method it is not necessary to make a great investment to start with, besides, other things considered, it is the wisest course to pursue. By growing up with the business and learning its details as the business expands, keeping a grasp on the situation, laying plans for the future and having the perseverance to carry them out, success is sure to crown one's efforts.

W. H. Underwood.

KAFFIR WON AS ENSILAGE.

Kaffir ensilage, fed in connection with cottonseed meal, returned the largest profit in the calf-feeding experiment just finished by the Kansas Agricultural College. Next in point of profit was the sweet sorghum silage and cottonseed meal. The results of the feeding experiment were described in the college live stock pavilion to several hundred cattle feeders and members of live stock exchanges in Kansas City, St. Joseph, Omaha and Chicago. It is the largest experiment previously conducted in this country in the winter maintenance of steers.

Five lots of high-grade Hereford calves, ten to the lot, were fed one hundred days, ending May 2d on the following rations:

Lot 1.—Corn ensilage according to appetite. One pound of cottonseed meal to the calf daily.

Lot 2.—Kaffir ensilage according to appetite. One pound of cottonseed meal.

Lot 3.—Sorghum ensilage according to appetite. One pound of cottonseed meal.

Lot 4.—Corn ensilage according to appetite. Alfalfa hay according to appetite.

Lot 5.—Alfalfa hay according to appetite. Corn stover acording to appetite and ration of 1.89 pounds of shelled corn daily.

The cost of feeding, including labor, was: Lot 1, $55.05; lot 2, $54.96; lot 3, $54.94; lot 4, $57.45; lot 5, $9.56.

The profit by the lot was as follows: Lot 1, $47.05; lot 2, $60.46; lot 3, $51.03; lot 4, $48.04; lot 5, $49.34. The calves are a year old.

An important showing in the demonstration is that kaffir corn and sweet sorghum silage can be fed to beef cattle as a winter maintenance

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Save Much Time and Labor in Summer

BESIDES greatly increasing the quantity and improving the quality of cream and butter DE LAVAL cream separators save much valuable time and labor.

This great saving of time and labor counts for more in summer than at any other season and often alone saves the cost of a separator, aside from all its other advantages.

As compared with any kind of gravity setting the saving of man's time and labor and usually woman's drudgery with a DE LAVAL is a big item in its favor.

As compared with other separators the DE LAVAL saves much time and labor by its greater capacity, easier running, easier handling, easier cleaning and freedom from need of adjustment or repair.

These are merely some of the advantages which make a DE LAVAL cream separator the best of all summer farm investments, as every DE LAVAL agent will be glad to explain and demonstrate to anyone at all interested.

See the nearest DE LAVAL agent **at once** or if you do not know him write us direct for any desired information.

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HOLSTEIN CATTLE.

Pure-bred Registered

HOLSTEIN CATTLE

At the St. Louis Fair in 1904 great satisfaction was felt by the advocates of a popular dairy breed in the 120 day records made by their cows, the best one being 280 lbs. fat.

From their point of view this is still a phenomenal record, though rather small when compared with a recent official Holstein record, namely—393.487 lbs. fat from 11,326.7 lbs. of milk in 120 days. Other things being equal, great producers are economical producers and in no other breed will you find so large a proportion of big-yield cows as among Holsteins.

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3 CAR loads high-grade Holstein heifers one to three years old. Some bred. Tuberculin tested. Prices right. ROCK BROOK FARM, Station B, OMAHA, NEB.

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THE CHICAGO STOCK FARMS
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HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

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FOR SALE — One thirteen-months-old bull by Dutchland Hengerveld Winona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address

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There are some cattle that give more milk when they are fresh than a Jersey, but there isn't any breed that gives as rich milk as

The Jersey

at as small feeding cost, nor is there any breed of cattle that will *keep it up* like Jerseys will, *year in and year out.* That's why you ought to buy Jerseys to increase your herd's efficiency. Send for Jersey facts.

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WINELAND FARM JERSEYS The Wineland Farm herd of Jerseys contains some of the most noted animals of the breed and has the greatest number of Register of Merit cows of any herd in the West. Some choice young stock for sale. Address, mentioning The Homestead, H. C. Young, Lincoln, Neb.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

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Shoo-Fly THE ANIMALS' FRIEND

Keeps flies and other insect pests off of animals—in barn or pasture—longer than any imitation. Used and endorsed since 1885 by leading dairymen and farmers.

$1 WORTH SAVES **$20.00** in milk and flesh on each cow in a single season. Heals sores, stops itching and prevents infection. Nothing better for galls. Kills lice and mites in poultry houses.

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$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. **Guaranteed a lifetime.** Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half.

AL. SAUGH-DOVER CO.
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ration with practically the same results as that obtained with Indian corn. That means, according to authorities at the agricultural college, that in the short-grass country and other localities where Indian corn does not produce well, the sorghums can be utilized as ensilage.

The results given do not finish the experiment. The fifty calves are tagged so a complete report will be possible next fall showing how the animals passed through the summer.

SILAGE RATION FOR BEEF PRODUCTION.

To the Editor of The Homestead:

Few facts in agriculture have been more clearly and conclusively established than that the silo is a necessity to the stock farmer. When we consider the varied conditions under which these experiments have been made it is surprising to find the results so similar and all pointing to the one conclusion. The following notes are taken from bulletins and are arranged in a condensed form to save time and space:

Nebraska station in Bulletin No. 163, comparing corn silage with corn stover as a fattening ration for steers found the steers fed silage made 20 per cent larger gains than those fed stover.

The silage-fed stock required one-third less grain than the fodder-fed steers and produced beef more economically.

Missouri station found in a steer-feeding experiment, where corn silage was compared with hay; they could make a saving of $1.07 on 100 pounds of beef by using ensilage.

Pennsylanvia station found good results in feeding steers silage and realized a value of $6.20 a ton when used in this way. They also found silage superior to hay and much more economic in the raising of young stock.

Ontario Experiment Station found they could save $63 on every $200 invested in feed if they used corn silage in preference to hay in feeding.

Kansas Experiment Station not only produced beef cheaper with silage in the ration, but also the silage-fed steers sold at a higher price on the market than did the dry fodder steers. They found corn silage when put in the silo would keep for five and six years and retain its feeding value.

Kansas station also found in a recent experiment that kaffir corn silage gave $11.12 more profit per steer than a good ration of alfalfa hay, corn fodder and grain.

In another bulletin they have demonstrated that corn silage, cane silage and kaffir silage are quite similar in both feeding value and profit when fed to dairy cows or steers.

South Carolina Experiment Station found corn silage produced beef from 15 to 20 per cent cheaper than other foods tested and gave an earning of $6.86 per ton for silage fed to fattening steers; also that silage-fed cattle shrunk less in shipping to market than those fed on other rations.

Illinois station found silage worth 31 per cent more than corn fodder when all costs of producing the feeds were considered.

In one of the Indiana station bulletins they have found corn silage to be worth from $5.50 to $6.50 per ton when fed to fattening steers and sheep.

Massachusetts station found in a test, where corn silage was compared with hay for feeding steers, the silage more economic as a ration.

The experiment station of Indiana has for many years been conducting experiments along the line of economic meat and milk production. Practically all of their tests have demonstrated beyond the question of a doubt the economy of corn silage as a ration for domestic animals. In Bulletin No. 116, which gives the results of a steer-feeding experiment, we find the following conclusions:

The addition of corn silage once daily to a ration of shelled corn, cottonseed meal and clover hay, reduced the cost $1.83 for each 100 pounds of gain and increased the total profit $8.85 per steer.

The addition of corn silage twice daily to a ration of shelled corn, cottonseed meal and clover hay, reduced the cost $3.17 for each 100 pounds of gain and increased total profits $11.19 per steer.

The substitution of corn silage for clover hay in a ration of shelled corn, cottonseed meal and clover hay reduced the cost $4.35 for each 100 pounds of gain and increased the profits $17.97 per steer.

The more nearly corn silage replaced the clover hay in the ration, the cheaper was the gain and the greater the profit.

Corn silage produced a very rapid finish on the cattle.

The silage used in this trial contained an unusually high per cent of dry matter, and was, judging from previous experience, more efficient for fattening cattle than silage containing a higher per cent of moisture.

A ration of shelled corn, cottonseed meal, oat straw and corn silage (twice daily) proved to be as efficient for fattening cattle as a ration of shelled corn, cottonseed meal, clover hay and corn silage (twice daily).

The Iowa Experiment Station in Circular No. 6 gives a large number of results in feeding experiment, where corn silage was compared with hay; they could make a saving of $1.07 on 100 pounds of beef by using ensilage.

(Continued on page 13.)

First-prize and champion Hampshire winners at Missouri and Iowa State Fairs in 1912. Bred by Isom J. Martin, Lancaster, Mo., and sired by Gen. Tipton 1677.

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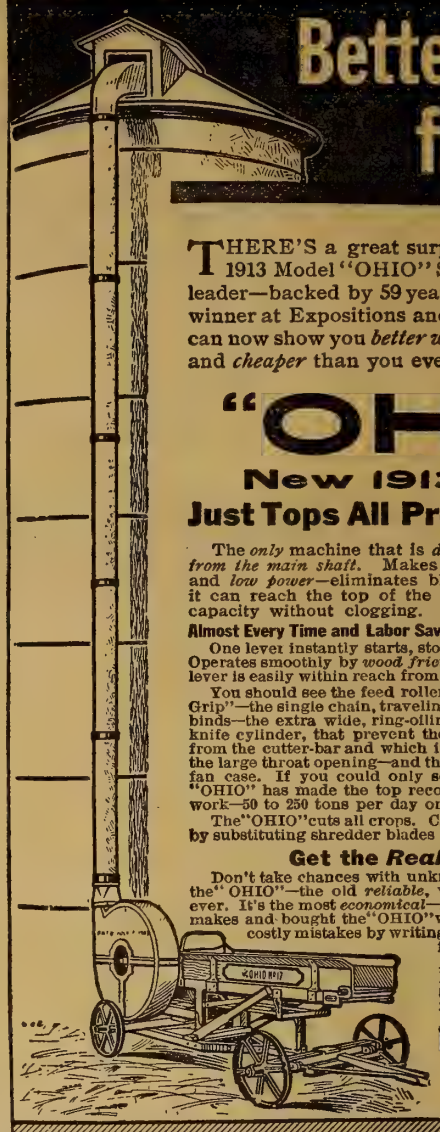

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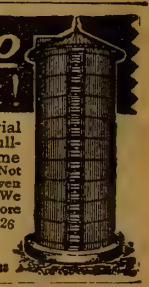

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THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

DIPHTHERITIC ROUP.

To the Editor of The Homestead:

One of our Missouri subscribers sends the following communication:

I raise Buff Orpington chickens and they are sick. Their eyes become watery and foam forms in the corner of the eyes. The nose becomes stopped up and a cake of cheesy-looking sores forms in the throat, going into the windpipe, then sores form around the outside of the latter. When I pull off the scab it leaves a raw sore. The chickens in the meantime gasp for breath. I bought a new rooster and in about two weeks he took the disease and died. This was the first of the trouble. Our chickens have fine range and running water together with good feed and care. Do you think the young chickens will take the disease? Will this trouble keep the eggs from hatching?

This description gives a very good pen picture of diphtheritic roup. The membrane is apparently a part with the mucous membrane of the throat. To remove this a bit of absorbent cotton may be twisted about the end of a small stick, moistened with creolin and held for a short time against the membrane, being careful that none drops into the windpipe. For internal treatment give one one-hundredth of a grain tablet biniodide of mercury four times daily until the membrane begins to disappear, then gradually reduce the dose to one tablet daily and continue for a week.

Give fowls soft, nourishing food. A good tonic through convalescence is five-drop doses of compound sirup of hypophosphites made into a pill with bread crumbs to be given three times a day.

Diphtheritic roup is a contagious germ disease and was, no doubt, brought to this flock by the new cockerel. He may have come from a roupy flock or he may have contracted the disease in transit. Fowls from away should be isolated for two or three weeks after their arrival. Our correspondent has asked for treatment and we have given as good as there is. However, unless it is a very valuable bird it is far better to destroy badly affected birds and take vigorous measures to save the others.

Hens do not lay after they get really sick, but if they are constitutionally weak the eggs might hatch but the offspring would be weak. The little chicks will hardly contract the disease now—later they will be predisposed to the trouble. Also a chicken once afflicted is a good subject for future attacks.

SILAGE RATION FOR BEEF PRODUCTION.

(Continued from page 12.)

sults in feeding domestic animals corn silage. In practically all of these tests, the economy of silage as a ration was well demonstrated and established. Some of the conclusions in these feeding tests may be here repeated:

Corn silage should be put into the feeding program of every Iowa beef producer if he wants to fatten cattle economically and efficiently. That corn silage is our most profitable cattle roughage has been clearly demonstrated at the experiment station as well as upon hundreds of Iowa farms.

The addition of corn silage to the ration not only decreases very materially the cost of gains, but usually makes them more rapidly. The steers are finished more quickly and ordinarily sell for a higher price than where clover is used as the roughage.

Fattening cattle of all ages utilize silage as their roughage ration. It is as good for the calf and yearling as for the two and three year old. All profit from its use.

Silage is practically one-third to two-fifths as valuable as clover hay for beef production. Silage at $3.20 a ton and clover hay at $7.66 a ton were equally efficient in fattening two-year-old steers in 1911-12 in our station tests. Ordinarily when clover is selling from $10 to $15 per ton silage is worth from $3.50 to $6.

That the corn grain which is put into the silo is not wasted our feeding records clearly show. Cattle receiving silage do not eat as much grain as hay-fed cattle, the decrease being approximately equal to the amount of corn found in the silage.

For a short feed, silage is preeminently our most abundant and efficient roughage. The gains are not only more rapid than where clover or alfalfa is fed, but are made more cheaply. Furthermore, the selling price is markedly enhanced. Actual experiment has shown that as compared to clover in a ninety-day feed, silage cattle, rightly fed, will sell from ten to seventy-five cents higher per hundredweight.

For a long feed silage is quite efficient, producing as compared to clover, both cheaper gains and higher quality of finish.

North Carolina in Bulletin No. 222 gives the following summary after a carefully conducted feeding test:

Beef cattle fed on corn silage as the roughage portion of the feed in conjunction with cottonseed meal will not only use the meal more economically during a continuous feeding period, but they will finish in better condition and command a higher price than cattle fed on dry roughages.

In all of the lots where corn silage was fed as a whole or part of the roughage, the daily gains were more uniform throughout the feeding period than the gains made by the lot-fed cottonseed hulls. The least average daily gain made during the last month by any of the cattle fed silage was .64 of a pound against .01 of a pound for the lot-fed cottonseed hulls.

South Dakata Experiment Station in Bulletin No. 137 gives the following results in a steer feeding test where silage was used:

In comparing silage with similar corn cut and shocked the silage gave better returns both in economic production and quality of production. It was found that no bad results were obtained by feeding large quantities of corn silage to steers. At the end of the experiment some of the animals were consuming seventy pounds per day.

For fattening steers hay with silage proved to be better than hay or silage alone as a roughage. In each case where silage or roots were fed with shelled corn and wild hay there was a larger gain than with the lot that did not receive these succulent foods.

There are many other station reports which show the advantage of corn silage is an economic feed for beef making, but space and time prevent their recording here.

The large movement throughout the whole country speaks perhaps in stronger terms than anything else of the value of the silo as an economic farm equipment.

The conservation of the corn plant is perhaps the most important item of farm economics that has come before the people of recent years. By the proper use of the silo we will not only be able to save hundreds of dollars worth of stock food, but we will also produce all stock products more cheaply. It will place the American farmer in a position where he can compete with the cheap labor of foreign lands, and we will be able to market our beef and butter in all the great meat-eating nations of the world.

A. L. Haecker.

The Mississippi Valley Compress Association has adopted resolutions fixing the uniform size of compressed cotton bales at twenty-seven inches in width and fifty-four inches in length and the weight approximately five hundred pounds. Requirements that the actual condition of both the cotton and wrapping be described in receipts and bills of lading were also approved.

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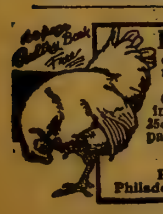

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EGGS now only $2.50 per 15, from pen headed by first-prize cockerel at the big St. Paul show, 1911. Eggs from fine farm range flock only $3.00 per 100. H. E. Huston, Iowa Falls, Iowa.

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EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address
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THREE males and five females about 4 months old; they are well bred but not eligible to record. Males $3.00, females $2.00. Their dam is extra good. Address F. P. HEALY, BEDFORD, IOWA.

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FAHA'S Silver Wyandottes. Eggs from 5 best pens in America, 15, $1.25; 30, $2.00; 100, $5.00 Frank Faha, Jr., Box 620, Dyersville, Iowa.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92¾. Write for prices, R. B. Rowe, Indianola, Ia.

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CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. 20th Century Hatchery, Chatfield, O.

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EGGS "DARK CORNISH" EGGS
SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9. Washington, Iowa.

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Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa

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EGGS—Barred Rocks, Bronze Turkey—EGGS
BARRED Rocks. Special mating 30 eggs, $3; 45 for $4.00. Farm range, 30 eggs, $1.00; 100 for $3.00. Bronze turkey eggs, 30 cts. each, 11 for $3.00. I. R. duck eggs, 13 eggs $1.50. Also one male peafowl, price $7.50. Address M. V. Leeper, Redfield, Iowa.

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

With the coming of the busy season on the farm there is a tendency to overwork the family, frequently the children are taken out of school before the term closes and from early in the morning until late at night their hands are kept busy over tasks that are uninteresting if not actually arduous. This is the sort of thing which breeds dislike for the farm in the mind of the growing boy and girl.

Where it is necessary to take the children out of school—a thing to be avoided where it is at all possible—or to utilize their services in field or orchard during the holidays an effort should always be made to give the young helpers a feeling that they are partners in the work of the farm. If children are paid even a trifle for hoeing or weeding or picking fruit or any of the dozen tasks which fall to their lot they will usually do the work more or less cheerfully and there will be none of the sulkiness and bitterness which are frequently encountered where a different course is pursued.

Another plan is to agree with the children that certain privileges will be theirs, certain "treats" be enjoyed if the work assigned is faithfully performed. The promise of little picnics, a birthday party, a trip to some nearby place of interest, all stimulate young workers and if circumstances permit of telling them that the money saved by their labor will be invested in some coveted thing, either for themselves or for the home, a new zest is given to the daily tasks.

Hard work alone will not disgust young people with farm life. When boys slip away to the city content to try their luck at untrained labor, when girls chafe and wait their time to leave the farm home, it is because parents have not dealt intelligently and fairly by them. Let parents take their children into fellowship and they will be willing co-workers, even when the conditions are uninviting.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

What constitutes a state?
Not high-raised battlement, or labored mound,
Thick wall or moated gate;
Not cities fair, with spires and turrets crowned;
But men, high-minded men,
Men who their duties know,
But know their rights and knowing, dare maintain;
Prevent the long-aimed blow
And crush the tyrant, while they rend the chain. —Alcaeus.

OUR PRESIDENTS.

First on the list, the peerless one,
The great and good George Washington.
Then Adams from the old Bay state,
Steady and stanch, a man of weight.
Next Jefferson, with ready pen,
Statesman and southern gentleman.
Then the two James's, as we all know,
James Madison and James Monroe.
Now comes John Adams with the Q,
Then Jackson, soldier and fighter, too;
Martin Van Buren; then Harrison,
Who at Tippecanoe the victory won.
John Tyler came next, then James K. Polk
And Zachary Taylor, both southern folk.
Millard Fillmore, Franklin Pierce
And James Buchanan follows next,
Then Abraham Lincoln, martyred saint,
A country mourned o'er his sad fate.
Johnson succeeded to his place,
And filled it with but meager grace.
And then the nation's hero came,
Ulysses Grant, of warlike fame.
Next on the list is Rutherford Hayes.
Foul murder shortened Garfield's days,
And Chester Arthur filled his chair
With honor, and with "savoir faire,"
Then Grover Cleveland followed him;
And after, Benjamin Harrison;
Cleveland then served his second term.
McKinley, killed by an assassin's hand,
A wave of grief swept o'er the land.
Then in that time of doubt and dread
Came Theodore Roosevelt to the head;
Bravely and well he played his part,
And conquered our great country's heart. —Emily C. Cobb.
(Written previous to election of Ex-President Taft. Editor's Note).

SUMMER DRINKS.

Koumiss.—Put into a bowl one-half cup of milk, heated lukewarm, two teaspoonfuls of granulated sugar and one-third of a yeast cake. Stir until the yeast cake is dissolved. Pour this mixture into a bottle with a patent air-tight stopper, first scalding the bottle well. Pour in fresh milk until the bottle is two-thirds full, fasten down the stopper and shake hard until the contents are well mixed. Set in a warm room for six hours, or until the contents are a mass of foam, then set on the ice until wanted. Koumiss should taste like effervescent buttermilk.

Homemade Cream Cheese.—Take two quarts of thick clabber milk and pour into it a quart of boiling water. Let it stand ten minutes or longer, then put into a cheese cloth bag and drain over night. The next morning rub this cheese to a smooth pulp, salt to taste, add gradually one-half tablespoonful butter and one tablespoonful of thick cream, pack into small jars or cups and stand away in a cool place for two weeks. At the end of that time scrape off the top and turn from the cups for use.

AMONG OURSELVES.

School is out these days, and you have most likely got more than enough of daily child troubles already, and wish there were summer schools in the country as there are in the city. You must needs be teacher as well as parent through the summer months. How are you working out your problem? Does it not make you feel kindlier towards the troubles of the teacher?

The life of a teacher is by no means easy, or full of pleasure. When the majority of girls go out into the world to earn money for themselves their troubles begin. They have never had the opportunity to meet with or been rubbed against life's hard propositions and when they are brought face to face with real life they look for a hiding place. On Monday morning when the teacher faces her pupils, mischief and fun sparkle in their eyes. The first thing they try is to weigh the teacher. If she weighs heavy all will be well, but if she is wanting, prepare for trouble. A great deal depends upon the personality of the teacher. She may be well educated, but lack the governing ability; or, as the case may be, the governing power may be there, but much hard work must be done upon the coming work in order to have the lessons well prepared. In most schools too much is expected of a teacher. She is expected to answer any question that may be asked, be a perfect character in society and keep a model school. In the latter she is apt to fail. "As a child does at home she or he will do in school," and sometimes she finds herself trying to do someone's work. Can she be expected to make all pupils submit to her will? Not much, and when the pupils are stubborn and will not obey, then the patrons say, "She's no good, can't make the youngsters mind." Is she doing her work or the work the parents should have done? When a child is master of the home he will try to rule the school, and when the teacher steps in to do her duty, then the house is not large enough for two masters; the stronger will oppress the weaker and one proving to be the stronger is victor. I do not mean to say that all people can make a success of teaching under the best circumstances, for without the ability or genius they are not apt to succeed. Quite often troubles will arise from the tales children tell out of school. The parents will believe their child's story instead of going to the teacher for the straight of it, for a child will always tell the story in his own favor. I think one grave mistake we teachers make is punishing for slight offenses. Punish when necessary and do it right. Very often a joke will settle matters better and quicker than an hour of scolding and preaching. If you have to scold or rebuke a boy or girl, ask them to remain after school hours, then talk to them pleasantly about the subject and they will go home without planning a scheme to even up things.

Very well put. It is essential to realize that the boy at home and the boy in the school are one and the same boy, and the parent who with flashing eye and set teeth states with precision, "I have never caught Johnny in a lie" should wake up to the fact that very likely "Johnny" is "pulling the wool" over the dear parental eyes.

From the library corner comes a voice saying:

I have lately read three good books by Harold Bell Wright—"The Shepherd of the Hills," "The Calling of Dan Matthews," and "That Printer of Udell's." These all deal with the subject of religion in its relation to everyday life, and there is much in each one to interest a thoughtful reader, beside the interest of the excellent stories. Another book, "The Shuttle," by Frances Hodgson Burnett, is especially good. The story deals with international marriages, and the leading character, Bettina, is a girl of marvelous perfection. Her unusually good judgment and self control are only a part of her well-rounded characteristics. This is by far the best book Mrs. Burnett has ever written, even though we appreciate the merit of all her writings.

Are you cultivating a sweet home spirit similar to what this mother writes to us about? There may be long years of seed sowing and harrowing and fallow times, but such a crop

July-August

BARGAIN SUPPLEMENT

SEARS ROEBUCK AND CO.

CHICAGO, ILL.

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Greatest of all Midsummer Sales. For sixty days ending August 31st, we eclipse all previous efforts in bargain price-making.

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But if you haven't bought of us since then, and if you really want to share in the greatest of this year's bargain sales, then just write "July-August Bargain Supplement" on a postal card, sign your name and address and mail to

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All Wool Mixed Suits for Men

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Look for Our July-August Stove Proposition

"Ben-Hur," the Greatest Novel Ever Written by an American. Never Before Sold Under $1.50; NOW 48c

of family kindness bounteously fills the garner:

The best way to be happy is to be kind and good to each other, more especially members of the same household. I was left a widow a little over a year ago with a 160-acre farm on my hands and only two boys, seventeen and nineteen, to help me with the work. My two girls, twelve and fourteen, help me with the house work, but, of course, when they have to walk two miles to and from school they have very little time to work except in vacation, but by being good and kind to each other we are getting along fine. I have one older girl who is married and living in the state of Washington, and four older boys scattered over the world. They are all thoughtful about writing home to mother and I answer their letters promptly. Mothers can't expect to hear from their absent children unless they answer their letters as soon as received. My oldest boy here on the farm has a pony which he rides and drives whenever he wishes and if I wish to go to town or anywhere he is always ready to harness Bonner to the buggy for my use and as I enjoy driving, have taken both comfort and health from this lovely weather.

Mrs. Ellen Steven is a fortunate mother. Won't you let us hear from you again? Tell us how you live with your lads and lassies.

Quality and service are much used words these days. And here are suggestions to help you give your mealtime problems a quality service:

The art of cooking is a bugbear to a great many housekeepers, especially to those of little experience. It should,

Picking a Present for Mother

In the millions of orders we fill every year none give us greater joy than the supplying of gifts for some loved one at home. Grocery orders, furniture orders, clothing orders, implement orders—all, of course, have our greatest care and attention.

But, when a letter is received saying: "This purchase is a gift for Mother—a remembrance on her birthday or wedding anniversary" it goes through our great fifty acre establishment with a sense of loving responsibility that permeates every man or woman who handles it.

And we receive thousands of such orders.

This announcement will be read by hundreds of thousands of our customers who use the Montgomery Ward & Co.'s Catalogue constantly for the supplying of their many needs.

To them we say, when you are ordering a gift for father, mother, son, daughter or friend, don't fail to mention the fact when writing.

To those who are not *now* our customers, we ask the privilege of sending our wonderful new Catalogue, which shows in truthful text and picture thousands of items at small cost that can be used for gifts.

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The book weighs several pounds. It contains 1000 pages—every one of them a wonderful store window of surprising bargains. It is sent absolutely free on request—without any obligation to you. *Your* copy is waiting. All you need do is to ask for it. Write today. Now.

MONTGOMERY WARD & COMPANY Dept. 217

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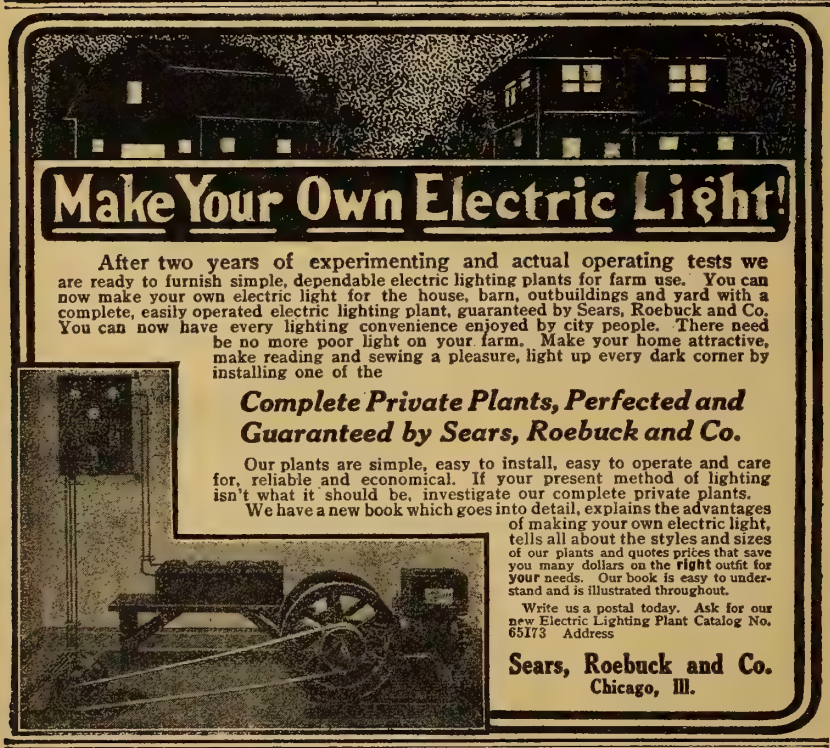

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High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 30 days' trial at our special direct-to-you factory price.

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of course, take much thought, but by good management not such a great deal of time. Meat and vegetables simply cooked, with crisp green things or fresh fruit are far more wholesome for John and the children than the fussy things that do so try the patience of the busy housewife. Have you ever tried saving all small pieces of meat, bread, potatoes, grinding and chopping them, binding them together with an egg or two, seasoning them to taste and frying in little cakes? You will have a pleasing supper dish. Again, for variety, try this: Thicken a cupful of tomatoes with flour and pour over the cakes, or add a bit of chopped onion or make a mound of mashed potatoes and arrange the cakes around it. One's appetite will sometimes fail us, especially as summer advances. Try this some night: Toast slices of bread a nice golden brown and butter slightly. Take some bits of finely chopped dried beef and put in the pan with enough water to cover; let come to a boil and drain; add one-half pint of milk in which you have stirred smooth one level tablespoonful of flour and let come to a boil; season, and pour over the slices of toast. Serve this very hot and you'll all be delighted. And again: Pick apart any cold cooked fish to make a pint; rub together a rounding tablespoonful of butter and same amount of flour. Add half a pint of milk, stirring constantly until it thickens. Take from the fire and add the fish, a level teaspoon of salt and a little pepper. Stir gently and stand over hot water until it is thoroughly heated. Serve on toast.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

THE STORY OF A MAGPIE.

(First prize.)

One of my uncles, when a small boy, was riding along a country road with my grandfather. On this road lived a man whom grandfather knew and he stopped for a chat. This man owned a magpie, and it was sitting on a gate near by, and it would say, "Howdy-do." Uncle wanted to go near it, and he would go up quite close to it, then it would say, "Come a little closer, Tommy," and "shake hands." As uncle would reach out his hand, it would pick it and say, "Ha, Ha!" as if it were laughing. Uncle was a little afraid, but tried to be quite brave, and every time it would do the same. This magpie, when a neighbor had a sale, called out bids, and would call out to the teams to "back up," "whoa," "gee," "haw," etc., until it was raising quite a disturbance, and the men went to hunt it, but could not locate it at first. It was up in a large tree. This magpie came to my grandfather's house when my grandmother was sick, and would fly in her bedroom and perch upon her bed. She would feed it bread crumbs and it came back several times. It got so it would not stay at home, and one day it went away and never returned.

—Cecil, age 8.

A Bird Club.

(Second prize.)

I am a lover of birds. The only birds my father kills are hawks, crows and sometimes blackbirds. At our school we have formed a "bird club." It is called "The Liberty Bell Bird Club." Twenty of the scholars signed the pledge. Each of us received a pin also. The birds we are allowed to kill are English sparrows and chicken hawks. This spring I found a little robin sitting on a rose bush almost dead. I took it in the house and gave it some water and tried to feed it, but it would not eat. I looked for a nest, but could not find any. I then put it in a box and set it outdoors so it could fly away if it wanted to. In the afternoon I went away and when I came back the bird was gone and I have not seen it since.

—Sadie Mitchell.

Changed His Name.

(Third prize.)

One afternoon not long ago my grandmother had callers. My little brother was playing with his cat near by.

Later on in the afternoon one of the ladies asked my little brother what his cat's name was. His quick reply was: "It used to be Tom, but I changed it to Nellie so she would have some kittens."

—Alfa Morgan.

In A Hurry.

One day last spring my father was up town. He met one of his old friends on the street, running pretty fast and quite out of breath. In his hand he carried a sack.

Stopping him he asked, "Why are you in such a hurry?" "Oh," he says, "I bought my wife a hat today and am hurrying home before it gets out of style."

—Edith.

A Picnic Club.

This summer the girls in this neighborhood formed a club called "The Picnic Club." We have it every Wednesday afternoon at the girl's home who wants it. Each of us is to take something to eat. Just before we start home we have a lunch. Each of the girls is going to put in some money to get a treat for the last day.

—Velma Morse.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

3d Quar. Lesson 2, Ex. 2, 11-25; July 13, 1913.

MOSES PREPARED FOR HIS WORK.

Moses is easily the towering personality of the Old Testament. His achievements place him foremost among the wonder workers of Providence. The question, "Whence came his wisdom and power?" is not speculative, but practical. The preparation of Moses for his work illustrates how all patriots may be gotten ready. First he was well-born. Not in the sense that a golden spoon was in his mouth or a silken canopy over his crib. The piety of his parents was a greater endowment than a fat bank account. They recognized that their son was an instrument fit for God's purposes. They risked their lives to save him in spite of the king's commandment. In this they were impelled not by mere natural affection, but by faith they saw in him the deliverer destined to break the galling yoke of bondage and lead God's people from the brick-kilns of Egypt to the highlands of Canaan. In the impressible years in which his own mother was permitted to keep the child he was thoroughly grounded in the thrilling history of the patriarchs and in the high hopes of Israel. He learned the unity, spirituality, and providence of God. He learned also that the Hebrews were not always to be slaves, and that some one was to be their deliverer. He was taught also that it was through Israel that all nations were to be blessed. The boy, Moses, lived in the atmosphere of these glorious hopes. The inspiration of them never left him. When at length he exchanged his mother's cottage for Pharaoh's palace he carried with him the ineffaceable teachings. His mother endowed him with a legacy of heroic thoughts and hopes, which he was certain later to mint into heroic deeds. All unconsciously Egypt herself furnished the education and training of one who was to, later, deprive her of the unrequited toil of her millions of serfs. Moses made spoil of the wisdom and wealth of Egypt. Yet, what he saw and learned only tended by contrast to deepen the lessons of his childhood. Egypt's religion was dark and worthless as compared to that of Israel. Pure ethical ideas and aims of Patriarchs shone in contrast to the sordid ideas and customs of Pharaohs. Soon or late the ideals of Israel and Egypt must clash in Moses' soul. He must needs make the fateful choice—Egypt and royalty! Israel and rags! That is a tal[illegible]manic record. "He chose rather to suffer affliction with the people of God—esteemed reproach of Christ greater riches—had respect to the recompenses of reward!" He had the vision that is indispensable to heroism. Moses' premature move toward emancipation led, under Providence, to the completion of his education. It made flight necessary. The awful solitudes of Midian were educative in themselves. There he had opportunity in the meditative life of the shepherd to review his knowledge of Egypt's language, literature, law, and custom; to consider the vulnerable points in Pharaoh's character and administration, and also to review the strength and weakness of his own countrymen. There also he learned every inch of the Sinaitic Peninsula, from point to point of which he was to lead his emancipated nation for forty years.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6229 Ladies' Skirt.—This two-piece skirt closes at the front or side, as preferred. It can be made with or without the gathers at the back. Linen, serge or cheviot can be used to make this skirt.

The pattern 6229 is cut in sizes 22 to 30 inches waist measure. Medium size requires 2⅝ yards of 36-inch material. Price of pattern ten cents.

5958 Missies' and Small Women's Dress.—The young girl can make this dress herself without the least difficulty. The closing is made at the left side of the front. The skirt is cut in six gores and can be made with either the empire or regulation waistline.

The pattern 5958 is cut in sizes 14, 16 and 18 years. Medium size requires 4¾ yards of 44-inch material, ⅝ yard of 24-inch satin and ⅜ yard of 18-inch all-over. Price of pattern ten cents.

6235 Girls' Dress.—This dress is made on sacque lines, straight from shoulder to hem. From the shoulders on each side of both front and back a tuck extends down the entire length of the dress. Linen or gingham can be used to make this dress.

The pattern 6235 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 3 yards of 36-inch material. Price of pattern ten cents.

6208 Ladies' Waist.—The decorative appearance of this waist is due entirely to the large collar, which may be omitted if desired. The balance of the blouse is altogether plain. The sleeves may be long or short and plain in finish or with an ornamental cuff. Linen, eponge, summer silk and other wash fabrics are suitable for this waist.

The pattern 6208 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¾ yards of 36-inch material with 3½ yards of edging and 2¼ yards of frilling. Price of pattern ten cents.

6221 Girls' Dress.—This neat little frock is closed in front and has a three-piece skirt. This is attached beneath a belt to the blouse, which has inset sleeves, seamed on the outside and a round cut neck finished with a band.

The pattern 6221 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 2¼ yards of 36-inch material. Price of pattern ten cents.

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When writing to advertisers please mention The Homestead.

ADVERTISING BY EXHIBITION.

To the Editor of The Homestead:

Most live stock breeders and all newspaper men believe it pays to advertise. It is not the purpose of this article to discuss this question in its usual and general acceptation, but in a form of advertising that is often overlooked or not fully appreciated by many stockmen, but which is very effective when well done.

The majority of exhibitors who take their stock to the fairs do so because they expect to win sufficient prizes to pay all expenses. Only a few are so fortunate. The more successful exhibitors, it is true, are paid handsomely by their winnings, some herds returning from the circuit with a surplus above expenses of several thousand dollars. These, however, are the exception. The majority of exhibitors are fortunate if their winnings pay all expenses. But while the winning herds are doing the most effective advertising, yet the men whose cattle may not be quite good enough to draw the coveted ribon have admirers for their cattle and do advertising that results in present or future sales. The good results of this form of advertising may not be immediate, but are realized some months later. So in the exhibition of live stock, owners should not overlook the advertising value of the effort. For this reason, breeders should be ambitious to advertise well and so take to the fairs only animals that are a credit to the owner and to the breed. Unless the exhibitor can show cattle that are creditable, he should leave them in the pasture, for in addition to incurring unnecessary expense, he is advertising the poor quality of his herd.

Some prizes are annually awarded to animals of very ordinary merit at state fairs, especially in state and association special classes, and while superintendents do not like to do it, the interest of the show and the breed would be conserved by barring from exhibition unworthy animals. A prize won on such an animal, through lack of competition, is money dearly earned. The pride of his own success and the welfare of the breed he represents should impel each exhibitor to select choice animals and then bring them forward in nice condition. If he does this, the incidental advertising will justify the effort, though he may not win the ribbon.

Short-horns have done some very commendable advertising at national and international shows in late years, and unquestionably the breed has been greatly benefited. At the American Royal and International shows, the unusual merit and great strength of the breed is annually displayed, and at the Exposition in St. Louis in 1904, and Portland in 1905, Short-horn exhibitors did some very effective advertising. Another most excellent opportunity for this will be afforded by the Panama-Pacific Exposition at San Francisco in 1915. The management of this exposition has been quite liberal to the live stock department, having appropriated $175,000 which no doubt will be supplemented by breed associations; and the superintendent Mr. D. O. Lively, has been very energetic in advertising this exposition both at home and abroad. He has already had numerous inquiries from the Hawaiian Islands and from Central and South American countries about the opportunities for purchasing pure-bred live stock at the exposition. So indications seem good for a strong demand at that big show. There is every reason for believing that this exposition will afford live stock exhibitors an unusual opportunity for exhibiting their stock and selling their surplus. It will be a rare chance to advertise by showing the world what they have produced in the United States. B. O. Cowan.

Eight boys in a country school in McLean county, Illinois, constructed a colored township map of the county in corn. The map shows all the townships, thirty in number, and the cities, villages and railroads, on a scale of three-quarters of an inch to the mile. Nearly a half bushel of corn and ten pounds of putty went into the making of the map. In order to avoid slight differences in shade, only the corn of a single ear was used for each township. The railroads are shown in bloody butcher corn, which is a very dark variety. The label is in pop corn of three colors.

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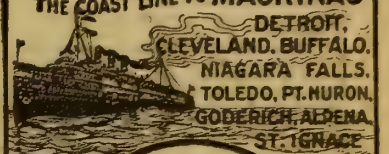

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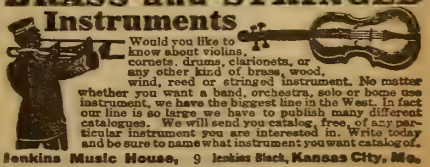

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Short-horn Cattle.

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Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.
Oct. 24, Leigh & George, Aurora, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 24, J. B. Ashly, Audubon, Iowa.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 15, Escher & Ryan, Botna, Ia.

Percheron Horses.

Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

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Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 13, Pfander & Sons, Clarinda, Ia.
Aug. 19, Alvin Windom, Nodaway, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 12, Fred Sievers, Audubon, Iowa.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, A. Kool, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Powers, Aurora, Neb.
Oct. 13, Frank Roberts, Earlham, Iowa.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Nov. 8, J. L. Naiman, Alexandria, Neb., at Hebron, Neb.
Nov. 12, E. V. Waugh, Greeley Center, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 18, Bloemendaal & Korver Bros., Alton, Iowa.
Feb. 24, R. R. Blake, Dallas Center, Ia.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashly, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 3, A. C. Mills, Spencer, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

A. W. Hopkins, Wisconsin. Address 201-202 Washington Blk., Madison, Wis.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

W. W. Vaughn, Marion, Iowa, offers Short-horn bulls for sale on page 23. He has the thick-fleshed, beefy kind that make good.

John E. Griffith, Washington, Iowa, can supply the wants of those in need of Aberdeen Angus bulls or females with good breeding. See page 22 and write him your wants.

Yearling Duroc Jersey boars by Volunteer, the international grand champion, can be had of M. S. Pratt, Frederika, Ia., also good spring boars of choice breeding. See page 23.

Hampshire boars that can win in the under-year class at the big shows can be had of Mike Sharp & Sons, Coal Valley, Ill. This veteran breeder knows how to produce the kind that win. See page 23.

The O. I. C. pigs offered by W. Doolittle, Woodlawn, Mo., are now ready to ship and those desiring to take advantage of his proposition to pay express charges should order now. Note page 21 for Mr. Doolittle's advertisement.

W. M. Myers, Beaman, Iowa, can supply good Scotch Short-horn bulls at attractive prices. This herd is one of the good ones. No better bred cattle can be found. The dams of the bulls offered are beefy cows that breed right. See page 23 and write or visit Mr. Myers.

W. H. Cooper, Hedrick, Iowa, sells big-type Poland China boars and gilts and guarantees them to not die from cholera. If they do you get your money back. See page 22 and send him your order. You take no chances. He guarantees them breeders, and you must be satisfied.

George H. Burge, Mt. Vernon, Iowa, well known for many years as a breeder of Short-horns has a few good bulls for sale. He also has a number of good open sale dates to offer those in need of an auctioneer who knows cattle and pedigree. See page 23 and write him your wants.

Some extra choice fall and spring Poland China boars are advertised for sale by F. E. Jackson, Hurley, S. D., on page 22. These boars are bred along the very best big-type lines and they are good. Mr. Jackson can fill your orders for these boars at prices that are within your reach and when you get one you will have the making of a splendid herd boar. Get his prices on these boars at once and also the breeding of the same. Mention The Homestead when writing him.

If you want anything in the Duroc Jersey line get in touch with the Economy Stock Farm, Shenandoah, Ia., at once. They have an interesting advertisement on page 23 that will appeal to the up-to-date and wide-awake breeders of Durocs. They are offering sows bred for September and October litters to their noted grand champion boar, Chief's Col., also twenty fall boars sired by Highland Chief, and two or three outstanding yearling boars that will make great herd boars. Write them at once about what you want and kindly mention The Homestead.

Frank J. Clouss, Barnum, Iowa, in sending copy for advertisement found on page 21 of this issue of The Homestead, writes: "I have certainly enjoyed a good season's trade. I have sold the most bulls I ever sold in the same length of time and am proud to state for the first season I have left the choice bull in Iowa. The calves sired by Ruperta's Goods are now showing up. At present I have six, all of them showing milk with size and good beef forms. The number of bulls is going to be rather small this year, but they are good. I have a number of heifers bred to Ruperta's Goods due to calve in October and November that I will price, also some open heifers. Come and visit the herd. You will be taken to and from the train and do not have to buy; only visit."

Korver Bros., Alton, Iowa, report over 100 head of Poland China spring pigs on hand and some very good ones. These breeders formerly owned Big Wonder, that splendid boar that is now at the head of the Fred Sievers herd, also Iowa King, the boar that J. O. James recently bought in the Peter Mouw sale at $400. This is sufficient to let The Homestead readers know that these breeders are breeding good hogs and the kind the breeders are all after. Their present crop is sired by Mouw Chief, Big Jones Again and Fair Wonder. It is a good place to buy a good boar, and these gentlemen will be pleased to have you call and inspect their herd. They will make a brood sow sale on February 18th, at which time they expect to sell a grand lot of strictly large-type sows.

The writer called on Perry A. Snyder, Davenport, Neb., a short time ago and we were well pleased with the line up of Poland Chinas that Mr. Snyder has to offer. This herd is small as yet, but some excellent individuals are on the farm, and the spring pigs will compare with the best as far as they go, but they are of limited numbers. A yearling herd boar, an extra big fellow of the best blood lines is for sale. Also about ten boars of early spring farrow are offered. The yearling boar is Returner Wonder by Pud's Wonder by A Wonder. The writer never saw Pud's Wonder, but he has repeatedly been recommended as one of the extra good A Wonder boars of the country. Returner Wonder is an extra big yearling, and shows the type of the big ones. He is also a good sire, having sired a lot of stuff for Mr. Snyder, but as the herd is so small, being only six or eight sows, he cannot keep this boar to use longer, his herd already being full of this breeding. This boar is the sort that would cost well over $100 if he was in the hands of an old breeder, but he can be bought at a price from Mr. Snyder that makes him a real bargain. Write Mr. Snyder for prices at once, and mention The Homestead when doing so.

G. J. Bloemendaal, Alton, Iowa, one of the best of the younger breeders of large-type Poland Chinas in the northwest, has seventy-five spring pigs on hand and they are sired by Big Black Jumbo, Gersdale Wonder, Big Wonder and Big Orange. He has some very good pigs among these and some that has every right to make splendid herd boars when grown out. Mr. Bloemendaal will be pleased to have intending boar buyers drop in and see his herd and he thinks he can fit them out with a good boar. He will make a brood sow sale on February 18th, when he again expects to put up an offering that the breeders will all be after.

Windom Offers Fall Boars.

If you want a right good Poland China fall boar don't overlook A. H. Windom, Nodaway, Iowa. He is offering several by the 950-pound Pawnee Nelson, and these are strictly choice. We have seen these boars and we know whereof we speak when we say these boars are strictly all right. You cannot do better than to go and see these boars or send Mr. Windom your order direct. These boars are right and so are his prices. When writing him kindly mention The Homestead.

Malcolm's Durocs.

That old veteran breeder, Wm. Malcolm, Worthington, Minn., is still in the hog business and have over 100 spring pigs on the place. Wm. Malcolm bred Durocs when many of our present-day breeders were in their swaddling clothes, and in his time has bred and raised some good ones. He has not forgotten how to do it even yet, and has some good pigs on the place which he expects to sell later in the fall. When any of our readers get in his neck of the woods make it a point to visit his herd. You will find him to be one of nature's gentlemen, a good breeder, and a man whom it is a pleasure to meet.

Bly's Durocs and Short-horns.

We recently called upon T. E. Bly, Brewster, Minn., one of the oldest breeders of Duroc Jerseys and Short-horns in southern Minnesota and found him just as busy as he was years ago when we first knew him. He has 130 head of spring pigs and he is carrying them along in good shape. These are sired by Buddy's Improver, Model Chief, Jr., Crimson Model and a few out of sows he purchased at the sales last winter. Mr. Bly will have a nice string of boars for sale the coming fall and he will make a brood sow sale in early January. He will also make a Short-horn sale following the hog sale and he will sell some fifty or sixty head of cattle in this sale.

Bargains in Short-horn Bulls.

Right good Short-horn bulls of good breeding are being offered at farmers' prices by B. F. Mason, Seward, Neb. These bulls are from big stock, of the most fashionable breeding and while they have only had good farm care, they are just in the right shape to go out and do a lot of hard service. They will be placed on board the cars at from $75 to $100. The would weigh the biggest part of the price right over the scales and remember that they are recorded and all right in every way. A couple of very dark roans and the others are good reds. Mr. Mason also has some good Duroc Jersey bred sows to offer and some extra choice spring boars. These boars will go at $20 if ordered within the month. They are also of the best of breeding and are really splendid individuals. Mention The Homestead and address as above at once.

Dunbar's Chester White Boars.

The man that is going to want a good Chester White boar pig should read the advertisement of W. H. Dunbar, Jefferson, Iowa, and get in touch with him at once. He will not make a sale this fall and he will therefore close out his entire crop of boars at private treaty. Mr. Dunbar's show record is so well and favorably known to readers of this paper that it seems unnecessary to mention it at this time and for fear that someone may not know about it we will say that he has shown at all of the leading state fairs in competition with the greatest herds in the land and he always got his share of the ribbons. The boars that he is now offering are from his most noted prize-winning show stock. Now is the time to get a good pig and if you will only write him you will be able to get in before they are picked over. Kindly mention The Homestead when corresponding with him.

Gruis' Duroc Jerseys.

One of the younger Duroc Jersey breeders that we wish to introduce to The Homestead readers is Mr. Heiko Gruis, George, Iowa, who comes before the public this year with 115 head of good spring pigs. Eight litters of these are sired by his splendid yearling boar, A Wonder, Jr., one of the best young boars today in northwest Iowa. He is a son of A Wonder, the boar that heads Mr. Veenker's herd and he is out of a West bred dam. He is a hog of splendid size, good bone, plenty of length, smooth in his coat, and is a boar that would be a credit to any of the larger and more noted herds. This hog is making good as a breeder and he has a lot of splendid pigs by him on the place. He also has one litter by old A Wonder, two litters by Fancy Chief, one litter by Model Chief, Jr., two litters by Cloverdale Prince and one litter by G. S. Crimson Wonder. Mr. Gruis has a splendid lot of boar pigs now on the place and he will be pleased to have intending buyers call and inspect them or he will book orders for them from now on at from $25 to $30. As he is just coming before the public he says he is going to make the price on these boars where they will sell and he says the first come will be the first served. His advertisement will appear regularly in The Homestead a little later in the season.

Saunders' Short-horn Bulls.

On page 23 C. A. Saunders, Manilla, Iowa, is offering some good young Short-horn bulls for sale, and he has a number that are good enough to head the best of herds. He will be pleased to have The Homstead readers call and inspect these bulls before they are all gone. When writing him kindly mention this paper.

Chester White Boars.

On page 21 G. H. Tutt, Marathon, Iowa, is advertising his two splendid herd boars for sale and forty head of spring boars. He certainly is offering good bargains, both in these herd boars and in the spring boars. We have seen them and we know they are bargains. Write Mr. Tutt about these at once and kindly mention The Homestead.

Some Choice Short-horn Bulls.

Readers of The Homestead that are in need of a good Short-horn bull of serviceable age will do well to write C. McCarthy, York, Neb., for prices and description of those that he has for sale. He has a couple that are old enough for pretty hard use, and they will be sold at prices that are mighty attractive if taken at once. Kindly write Mr. McCarthy at once and when doing so mention The Homestead.

James Still Offering Bargains.

Don't overlook those special bargains that J. O. James, Braddyville, Iowa, is offering in Poland China spring boars. He has some outstanding boar pigs sired by some of the most noted boars in the West and as he will not make a fall sale he has decided to close these boar pigs out at private treaty. You can buy a $75 boar now for $25 to $35, and if you want to get in before the prices go up you will order him to send you a pig at once. When writing him kindly mention The Homestead. See advertisement on page 22.

Dripps Polands.

Twenty good, big-type fall Poland China boars are for sale by John I. Dripps, Springville, Iowa. They are sired by Pawnee Expansion by Big Ex and R. & C.'s Pawnee Lad. The dams are Pawnee Giantess by R. & C.'s Pawnee Lad, Price's Expansion, Lady Expansion, Pride's Expansion and Expansion Model, all sired by Big Ex, Monarch Chiefess by Gay Monarch and others. The spring pigs offered are by the two herd boars and out of the same sows as the fall boars. If you want a good boar at a reasonable price see page 22 and write Mr. Dripps mentioning The Homestead.

Choice Hereford Bulls.

Those of our readers who are going to want a good young Hereford bull should lose no time in seeing A. Spooner & Son, Mondamin, Iowa, whose advertisement appears on page 22. They have fifty splendid young bulls that they are offering for sale and you cannot do better than to buy one from them. In fact, they have the best bunch of bulls we know of at the present time and you can easily select a bull from their herd that will be good enough to head any herd in the West. They can fill your order for one or for a car load. The breeding and the individual merit of these bulls they are offering for sale is the very best and you will find their prices are right considering the individual merit and the breeding. Write them at once or go and see the bulls they are offering for sale. Kindly mention The Homestead when writing them.

Wegter's Duroc Jerseys.

One of the younger breeders of Duroc Jerseys in northwest Iowa is Henry Wegter, Sheldon, Iowa, and he has seventy head of spring pigs on his place, together with seven head of good fall boars. These fall boars he will sell at any time and he has some good ones among the bunch. They are sired by Big Wonder, a Phallas bred boar and he also has a very fancy fellow by Crimson Climax. There are some good boars among these and he is pricing them where they will sell and they are well worth what he is asking for them. His spring pigs are sired by Happy Secret, Model Chief I Am, Put's Top Col., Chief Model and Crimson Improver. He will make a brood sow sale on January 24th at which time he expects to get together one of the best offerings that he has ever sold since he has been in the business. In the meantime he will be glad to hear from anybody who wants a good fall boar or he will book your order for a spring pig.

Pioneer Stud Farm's New Importation.

John G. Truman, Bushnell, Illinois, writes: "Our regular June importation of Shire and Percheron stallions and mares arrived June 26th in first-class condition, and it is without doubt one of the most select lot of horses we have ever imported. My father assisted by my brothers have scoured England and France for the sole purpose of buying the very best specimens they could find, and in no instance have they left a high-class horse when they had an opportunity to buy him. The Shire stallions run from two to four years old and the Shire mares from four to eleven years. Among the latter being the grand mare, Tatton Aurora, one of the very best Shire mares ever shipped from England and of the same stamp as the noted Wrydelands Sunshine, an international champion. The Percheron stallions are all two year olds, they are the best lot we ever owned and have more bone and rugged draft horse quality than any lot I have seen. They were all purchased by my brother, H. H. Truman, in January last, when he scoured the Perche for the best he could find. The balance of our Percheron colts are now being shown at the leading shows of France and will come in our regular July importation. A yearling filly sired by Intitule is a wonder and only adds to the laurels of this grand horse as one of the greatest breeders the breed

has ever known. Included in the lot is one of the best dappled gray Percheron mares I have seen, much after the same stamp as the great mare, Hysope, that we won grand championship with at international last year. My father thinks she is in many respects a better mare than Hysope. This importation about fills our stables and we will make attractive prices for the next few weeks in order to make room for the Shire, Percheron and Belgian horses that will arrive in our next shipment."

Naiman's Poland Chinas.

J. L. Naiman, Alexandria, Neb., has saved a great crop of Poland China pigs this spring. He has well up to the hundred mark, and by odds the best lot that he has ever raised. They are principally the get of Naiman's Expansion by Expansion Over by old Expansion. They are out of good sows, many being direct from the Walker & Son's herd. In another issue of this paper will be a photo of the young boars now for sale from this herd. Mr. Naiman will price these good spring boars at such a figure that will make them positive bargains if taken soon. Readers of this paper should write immediately. When writing kindly mention this paper and watch for notices in following issues.

Mills' Hampshires.

On November 3d, A. G. Milis, Spencer, Iowa, will make his first public sale of Hampshire hogs and he will offer fifty head, the pick of his entire bunch. Mr. Mills has been breeding Hampshires for a few years and now has a splendid herd. His foundation was secured from the very best herds and he has eighty-five head of good spring pigs and they are coming along in fine shape. He expects to sell twenty-five or thirty boars in the sale, five brood sows and the rest will be gilts. He will sell fifty head altogether and it promises to be one of the best Hampshire sales that has ever been held in the northern part of the state. Homestead readers who want to be sure that they will receive a catalog of this sale should drop Mr. Mills a postal card requesting him to send you his catalog when it is out and you will be sure then to get it. When asking for it kindly mention The Homestead.

Fain's Duroc Jerseys.

The other day we called upon F. E. Fain, Emmetsburg, Iowa, and found him with fifty Duroc Jersey spring pigs and while the crop was not large with him, he nevertheless had some splendid pigs. He said he was not feeding these pigs and all they were getting was a little fresh air and a lot of grass and water, but from the looks of them he must have injected a little more nutriment into these essentials than the average man does. He has ten head of good fall boars on the place and these are all sired by Fain's Select, a good son of Chief Select, that stands at the head of his herd. His spring crop is sired by Fain's Select and Missouri Model Top, Jr., the latter being a son of old Missouri Model Top, that formerly headed the Shade herd, Kingsley, Iowa. He has some pigs that are sired by Golden Model 2d, Big Chief, Chief's Model and a son of old Chief's Col. Just now he is offering some good fall boars for sale and he has some that are good and are well worth what he is asking for them. Write him about these and kindly mention The Homestead.

Browning's Durocs.

H. E. Browning, Hersman, Illinois, as usual will have out a strong show herd this year. At the head of the show and breeding herd is Disturber, a son of Defender and out of Lucy Wonder 112 by Chief's Col. Disturber, weighs 850 pounds now and can easily carry 150 to 200 pounds more. He has a strong arched back, a good set of feet and legs and with it all is as smooth as an apple. Disturber has been rated by several good judges who have seen him recently, as the best Duroc Jersey boar they have ever seen. There is no question but what he is the best boar Mr. Browning ever owned and he has owned some good ones. As a sire he has made good. Mr. Browning has some good pigs by him and S. E. Eakle has a fine lot of fall boars and sows sired by Disturber. Big-type Durocs have always been popular and they will continue to be. When you get a boar that has the quality and size combined as has Disturber they need nothing more to recommend them. Mr. Browning has a fine lot of sows to show in the different classes and it will be of interest to every Duroc breeder to see this exhibit at the different fairs.

Show-Yard Durocs.

C. McCarthy, York, Neb., the well-known breeder and exhibitor of Duroc Jerseys will not show this fall and for that reason will offer a junior yearling boar and a senior yearling sow that should be picked up by someone wishing to fill out their herds. The junior yearling is sired by Queen's Crimson, a boar owned by Briggs & Sons, and he will also be shown this year. He is the right kind of a breeder as this boar will show. This young boar is really an extra good proposition. He comes of a great line of winners on his dam's side, being out of Garnet's Lady by Lincoln Wonder. Her dam was Garnet's Pride a first-prize winner at Lincoln a few years ago. Garnet's Lady won third at Lincoln a year or two ago. This boar is just the sort to head a high-class herd, or he will do nicely for the fall fairs, and in either case the price that is being asked for him will make him a decided bargain for that class of a hog. A senior year sow that is also a good proposition can be had, and she will also be sold worth the money. A couple of good Short-horn bulls are also for sale and they come of some of the best breeding stock in the country. If in need of any of this kind of stock write at once and when doing so, mention The Homestead. Address C. McCarthy, R. D. 5, York, Neb.

Poland China Bargains.

On page 22 Mr. George Glynn, Sioux Rapids, Iowa, is offering some splendid bargains in Poland China boars and a few choice sows bred for fall litters. These sows are just as good as you can buy anywhere, and they are bred in the strictly large-type strains. Another feature of this is that they are bred to his splendid herd boar, Mouw's Big Sioux, a hog that weighs 900 pounds. Mr. Glynn has more sows than he cares to keep in the herd and he is therefore making some special bargains on these in order to make room. No man will go wrong on ordering some of these sows from Mr. Glynn. He is offering a splendid herd boar for sale in Smooth Jumbo. He is a two year old and a good one and some man is going to get a bargain in him. He also has a number of very good fall boars and will book orders for spring boars. He will be pleased to have you write him about anything you want in his herd or he would rather that you go direct to the farm and make your own selections. When writing him kindly mention The Homestead.

Veenker's Duroc Jerseys.

One of the good Duroc Jersey herds in northwest Iowa is owned by R. C. Veenker, George, Iowa, and he has something over 100 spring pigs that are good to look at. Mr. Veenker's herd is one of the best known herds in that section of the state and he is going to the fairs this fall with some that the breeders will all look at. He owns that good boar, A Wonder, a grandson of the old Minnesota State Fair winner, Dale, and he is out of a daughter of that other well-known boar, Sioux Chief. He has a yearling boar called Model Chief, Jr., a son of old Model Chief 2d, and he is also a splendid boar, and he has some good pigs by both of these hogs. He has an excellent litter by Happy Secret, and this litter is out of the top gilt in the Deval sale last winter. This is a splendid litter and we have not seen very many better ones so far this season. Mr. Veenker has another yearling boar by Model Chief 2d, and he is a good boar. He is offering those hogs for sale and he is a bargain for some man who is looking for a herd boar. Mr. Veenker expects to be at the Sioux City Fair with a good bunch of hogs and he wants to meet all the breeders there and he will take pleasure in showing them what he has.

Economy Farm Durocs.

The man that is going to want a good Duroc Jersey boar should lose no time in going to see the Economy Farm Durocs, Shenandoah, Iowa, owned by James J. Doty, and managed by that well-known breeder and judge, Mel Kraschel. They have 200 spring pigs on hand and they also have twenty head of good fall boars on hand that are ready to go at any time. They have some splendid herd boar propositions that they are now offering and the breeder that is going to want one of these should go and see them without delay. Their spring pigs are sired by that noted show and breeding boar, Chief's Col., a boar that has few equals in his day as a show and a breeding boar. Then they have some good ones by Highland Chief, an unusually good breeding boar and, by the way, they are offering this boar for sale and he is a pick up to some breeder who is going to want a boar to place at the head of their herd. They have other litters by the great and only, Colonel Gano, and the well-known Cherry King. They are booking orders for these at any time from now on and they will be pleased to hear from The Homestead readers or they would rather that you call and inspect the herd. If you cannot do this write them your wants and Mr. Kraschel will select the pig for you and we know you will be satisfied with the selection. When writing them kindly mention The Homestead.

Hassler's Poland Chinas.

One of the good young herds of Poland Chinas that is rapidly coming to the front is owned by F. H. Hassler, Manning, Iowa, and he will make a fall sale on November 1st. Mr. Hassler has been a very discriminating buyer of the very best the past few years and he is getting to that point where he has a herd that the breeders will be interested in. The boar at the head of his herd is Fashion Chief 63596, a son of that noted show and breeding boar, Chief Price Again. His dam is Long Lady by Longfellow 2d and his second dam is by the 900-pound Long Chief that for years headed the good herd of Frank Long at that place. This boar was brought out last year and without any fitting made many friends among the breeders who assembled at the Iowa State Fair. He has come along in excellent shape this season and those who have seen him admit that he is a far better boar than he was last year. Quite a few of the pigs in the herd this season are sired by this boar and he has some good ones. As we said above he has been a very discriminating buyer of sows and among the good ones he now has in his herd is Escher's Standard, a daughter of Chief Price 2d, and she is a good one. She was the best sow in the Ed Escher herd and he in turn purchased her from him in his closing out sale. Mr. Escher had many very tempting offers to sell this sow, but he would never consent to let her go until he finally closed out everything. She is an unusually large sow and you will travel many a day before you will see one as large as her. He also has a number of daughters of Fred Siever's Big Wonder, two daughters of that celebrated boar, Big Orphan, and others by Big Bone, Big Halver, Mable's Wonder and A Wonder A. If nothing goes wrong with his herd you will find him one of these days with one of the best young herds of Poland Chinas in the state. Later in the season we will tell you about some of the good things he will sell in his November sale.

Corn Harvesting, The Easiest Way.

The farmer who appreciates the value of an inexpensive design that will save time and labor, will be interested in the advertisement of the Love Manufacturing Company, of Lincoln, Illinois, on page 5 of this issue. The "Perfect" Corn Harvester has cut from four to six acres a day, with one man and one horse. Ease of operation; simplicity of construction, with all possible danger removed; an absolute guaranty and the elimination of the middleman's profit by their "factory-to farmer" plan; these are just a few of the points that make the "Perfect" Corn Harvester a machine that no corn-raising farmer can afford to be without. Mention this paper when writing.

Kreb's Durocs.

John Krebs, Riverside, Iowa, is breeding a type of Duroc Jerseys that are popular. He has given special attention to size and smoothness. His herd boar, Joe's Col., is a large boar by Proud Col., a boar known for the size of his sons and daughters. The dam of Joe's Col. is by Model Wonder, the great breeding boar owned by Hanks & Bishop. Mr. Krebs has about 100 pigs sired by Joe's Col. and they are as big and smooth and as heavy boned as you will find anywhere. He has two good litters by Wonder's Model, the good son of Model Wonder, that won second at the Iowa State Fair last year. He also has a litter by I Am A Crimson Wonder 2d and out of a Col. Gano gilt that topped the Swan & Ellis sale last winter. We know Mr. Krebs can please you in a good boar pig at a very reasonable price. Write him or pay him a visit and see for yourself. When writing kindly mention The Homestead.

A Nebraska Farm Bargain.

One of the nicest Nebraska stock and grain farms of the country is being offered for sale just now by the owner, O. C. Cowel, Hebron, Neb. This farm contains 160 acres, and lies right at the edge of town. Hebron is the county seat of Thayer county and is a good live city of 2,000 or more. It has very fine churches and is noted for its schools. It has nice parks, and in fact is a modern progressive city. This farm has eighty acres of alfalfa, all fenced and cross fenced, and as this is right in the heart of the alfalfa belt, it is not a hard crop to grow, and more could easily be seeded. There is a good lot of buildings and other improvements on the place, in fact, this is a very fine farm and is being priced well worth the money. There is a new barn, good cattle sheds, hog houses and all other outbuildings. The writer has often been on this farm, and we would recommend this to anyone looking for a good farm in a good location. Hebron has two railroads, the Rock Island and the Burlington. Liberal terms are being made on this place and we would like to see this farm go into the hands of good parties. Mention The Homestead and write Mr. Cowel at once.

Kreischer's Poland Chinas.

A fine lot of big-type Poland China boars are offered for sale by E. W. Kreischer, Mt. Vernon, Iowa. He has twenty fall boars sired by the 1,000-pound Mastodon Chief and Tecumseh Prince and two yearlings sired by Mastodon Chief. These boars have the size, heavy bone and smoothness that breeders and farmers admire. Their dams are largely by Tecumseh Prince, Monarch Price and others of note. There are also some mighty good spring pigs sired by Mastodon Chief, Big Jumbo 2d, a son of the noted Big Jumbo and Mastodon Wonder by Mastodon Chief and out of Smooth Lady by A Wonder. The breeding in this herd is as good as the best and the hogs are good. If you want a good boar write Mr. Kreischer your wants. Mr. Kreischer's Herefords are coming along nicely. At the present time he has three young bulls for sale. One of them is a herd bull proposition, being sired by the show bull, Young Albany, and out of the show cow, Spray by Distributer by Disturber. This is a show calf and good enough to head any herd. There is another good bull sired by Dale's Eclipse. See the advertisement on page 22 and mention The Homestead when writing.

Stewart's Chester Whites.

One of the best bunches of Chester White spring pigs that we have seen in our travels this spring is owned by J. H. Stewart, Dickens, Iowa, who also owns one of the best herds in the northern part of the state. He has 175 head of these and they are coming along in fine shape. If they continue to improve from now on until September and October, the same as they have up until this time, you can put it down that he is going to have some that will make herd headers. These are mostly sired by Iowa Boy and Crescent, two boars that he has been using at the head of his herd. He still has Iowa Boy, and he is a good individual and a good breeding hog. This boar is a son of Fancy Boy, the boar that stands at the head of the herd of John Holst, Jr., Denison, Iowa, and he in turn is a son of L. C. Reese's celebrated old show and breeding boar, Kepp On. He comes from a line of breeding that has produced some of the very best we have in Chester Whites, and from the looks of the pigs in Mr. Stewart's herd this boar is going right on in producing good things. His other boar, Crescent, was purchased from Hoover, Oskaloosa, and he is a son of of his well-known boar, Wonder, and he also has some good pigs by him. Mr. Stewart will book orders for spring boars from now on and we will say to The Homestead readers who want to get in on the ground floor that now is a good time to place your order. These boars have not as yet been picked over, and he will make your selection now and ship later in the season if you want it that way. Write Mr. Stewart about his boar pigs and when corresponding with him kindly mention The Homestead.

F. H. Dickey's Duroc Jerseys.

Among the many good Duroc Jersey breeders who have a good crop of pigs this year is F. H. Dickey, Emmetsburg, Iowa, and he has ninety-five of them that are coming along in splendid shape. He also has eight head of good fall boars, all sired by Col.'s King and some of these will make splendid herd boars. One of these is out of a sow bought from the Roycroft Farms, and he is a good one and will eventually round out into an excellent herd boar. The spring pigs are sired by Col.'s King, a son of King of Col.'s, a boar used with success in his herd. Others are sired by Royal Col., a son of the champion boar, Freed's Col., that he is now using, while others are sired by Gold Col. (a son of old Prince of Cols., D.'s Crimson Wonder I Am, and D.'s Crimson Critic. Mr. Dickey's pigs are doing well and are looking fine, and it is a good place for breeders and farmers to go to buy a boar. We have seen few hog farms that are kept in better condition than the Dickey farm and this in a measure has much to do with the healthfulness of his Duroc Jerseys. Mr. Dickey also has a nice herd of Guernseys started, but at the present time he is not offering any of these for sale Homestead readers who want a good fall boar will find some good ones in this herd and it will pay them to write Mr Dickey or call on him and make their own selection

North & Robinson Import.

A recent letter from W. C. Robinson, of the firm of North & Robinson, the well-known breeders and importers of high-class draft horses, states that a new importation is on the way and will arrive at the company's barns at Grand Island, Neb., in the fore part of July. These horses were selected personally by Mr. Robinson, one of the good judges of America, and those interested in the good ones will keep this importation in mind, for it is a safe venture that that class of stock will be found in this shipment. Messrs. North & Robinson have one of the finest stock ranches in the entire country, in fact, they have ideal equipment for the handling of their trade. They have a large ranch at Bridgeport, Neb., on which farm there is an abundance of native pasture, also a fine lot of irrigated land. At Cairo, Neb., they have another very fine farm, practically in the famous Wood River valley and at Grand Island they have commodious and comfortable stables and sales yards. Grand Island is one of the greatest horse markets in the country, and men come from all parts of the United States to this point for their purchases. North & Robinson are doing a big business and while they import many horses, yet they are raising a class of stock equal to the very best imported, and the home-bred ones can usually be had for a little less money than the imported ones. A home-bred mare in the last sale made by these gentlemen sold for $1,560 and was purchased by a stockman that has been a buyer from this firm for several years. Prices of this sort indicate that good ones are grown by this firm. Readers of The Homestead contemplating the purchase of some choice ones will do well to visit this firm immediately. Should you write, mention This paper.

Coleman Bros., Poland Chinas.

It was a pleasant time the writer spent at the farm home of Coleman Bros., Ithaca, Neb., a short time ago, and we were much interested in their farm management as well as their high-class herd of Poland Chinas, and they also breed Short-horns. This Poland China herd is just one of the good ones of the state, and their business training in banking business and progressive farming gives these young men a decided advantage over other stockmen, not so well equipped. They have high ideals as to honor and their splendid method of treating the buying public is certainly bringing its reward in increased sales. The crop of spring pigs is the best this firm has ever raised and they are of something of the same breeding as was used a year ago. Osbon's Hadley was a sire used in this herd for some time and with remarkable results. He was by Big Hadley and out of a daughter of Big Hutch. This is practically the same as the Epley boar that has been breeding so well and was a prize winner at the fair a couple years ago. Osbon's Hadley has been a valuable boar for this herd, and several good breeders wished to purchase him, but he was never priced. These gentlemen had the misfortune to lose him a short time ago. Excellent Wonder by A Wonder is as good a son of the old boar as we have ever seen, bar one. He is not quite as large as we would like to see him, weighing about 725 in his two-year-old form in breeding condition, but he will reach 900 if nothing befalls him and that is pretty big after all. As a breeder he is surely all that could be wished. Twenty-five fall gilts on the farm by him are as good as we have seen in many a day. Every one of the same type and the big stretchy kind at that. They will be sold in Coleman Bros. winter sale and they should make the sale one of the very best in Nebraska. A young boar by Wade's Jumbo has been used quite a little and he breeds the characteristic heavy bone of this strain. It is hard to get around this Wade's Jumbo stuff for bone and stretch. These gentlemen may make a fall sale and if so further announcement will be made in The Homestead. Readers who are interested will kindly watch these

columns. In the meantime those in need of a good yearling boar will be able to buy one here worth the money. Some choice spring boars might be spared.

Walker & Son's Poland Chinas.

To make a complete success of any enterprise is a source of much satisfaction to those that put forth great effort, and it certainly should be a comfort to Thos. F. Walker, Alexandria, Neb., the senior member of the firm of Walker & Son, of that place, the noted Poland China breeders to look back over the years that he has been engaged in the production of pure-bred Poland Chinas and note the progress made. From this herd has sprung new herds by the score. Some of them have progressed into real good herds and others have flourished only so long as the owner kept steadily to the proper route and his original breeding stock lasted, but in every case a permanent good has resulted for the breed of pork hogs of the country, and that is the end of all of them. Herds of well-known character have been strengthened and materially aided by drafts of new breeding stock drawn from this herd. Prize winners at the fairs and prize sires have gone out from this herd in great numbers, and we have a right to look forward to still greater things from this good herd. These gentlemen have all their past experience to guide them in their efforts in the future and mistakes that have been costly will be avoided. Two great boars now head the herd, and their get are of great promise. They are Blue Valley and Blue Valley's Orange. The former is a son of the great Blue Valley Quality and the other is a son of the famous Big Orange and was one of the highest-priced boars sold at auction last fall. Blue Valley is one of the greatest individuals of the big boars within the state, and as he has been used some time, his get are not an experiment, but much of the nature of a certainty. Blue Valley's Orange is but a junior yearling and his first crop of pigs are now in the hands of the western stockmen. Those on Walker & Son's farm show up fine, and they certainly should. A fall sale will be made from this herd this fall. The sale will be held in Fairbury, Neb., and the date is October 17th. Do not forget it, but plan to be on hand.

C. P. Paulsen's Hampshires.

One of the most noted herds of Hampshires in Nebraska or in fact in the country is the one owned by C. P. Paulsen, Nora, Neb. Mr. Paulsen is a progressive sort of a stockman. He was quick to realize the possibilities of the Hampshire breed of hogs, and in making his initial purchases bought only the very best offered for sale. He was the first man to pay $200 for a Hampshire sow in this country, and he has in many other sales bought higher-priced ones since, and at private trade he has bought still others of the very select. His foundation material was drawn from such herds as those owned by Hugh Atkinson, Clayton Messenger, H. D. De Kalb, Sharp & Son, Essig Bros., and many others of the better known breeders. Buying the very tops of these herds, or at any rate the very best that they would sell has given Mr. Paulsen the very best sort of foundation for a herd that could be imagined. That his hogs are appreciated by the best class of buyers was shown very clearly in the public sale held by Mr. Paulsen last winter. At that time 100 head of sows and gilts were sold at an average of $56.25 and practically every animal went to breeders. They were shipped to several states and to numerous good herds. Boars from a herd of this kind should meet with ready approval by those in search of the good ones and an opportunity to purchase will be given on October 10th, at which time Mr. Paulsen will sell sixty-five at auction in the sale pavilion in Fremont, Neb. Keep this sale in mind, and remember that if it is the best of breeding, from the best of breeding stock that will interest you, that this sale should be attended. See advertisement on page 23.

Union Stock Yards, July 5th, Chicago, Ill.—Cattle trade closed the week in prostrate condition at prices 40 to 60c per hundredweight lower than at the middle of June, while the hog market fairly boomed, having advanced half a dollar, while cattle trade has been sliding down hill as though everything was lubricated for the event. Explanation is not difficult; there is competition in the hog market, but none where cattle are concerned. Stock and salesmen tell the story of four or five bids at the same figure on the same cattle while no two bids on hogs are alike. "Once I thought I was a cattle salesman; today I take what buyers tell me they are willing to pay and hold my peace," said a veteran trader. Everybody appears to want hogs, but cattle have few friends and the better they are the more deplorable is their market condition. The recent advance in corn has increased cost of feeding, while the market has been slipping away every day and tired holders are liquidating. Killers say they cannot sell beef, which may be a plausible excuse for present unsatisfactory market conditions. The logic of the situation so far as the farmer is concerned is plain. He should quit beef and raise pork. Probably he would adopt that apparently sane policy if nature had not imposed a handicap on increased pork production by disease, which baffiles veterinary science and is mainly responsible for current scarcity.

Cattle trade is on a weather basis and if high temperatures continue supply must be light unless further demoralization is to be recorded. The market closed the week slumpy at 15 to 25c declines, with symptoms of going still lower. The limit on the best grade of steers ever made is $8.85 and a spread of $7.80 to $8.40 is taking the bulk. This gap is unseasonably and unreasonably narrow. There is no logic in hanging up good beef in coolers at 12½c, while trash costs 12c. Steers now selling at $8.50 on the hoof and few are able to beat that price cost 12½c in the carcass, while $7.75 cattle figure 12c. The time for a different basis of valuation has arrived and a widening spread is to be expected unless the public has decided to cease eating good beef entirely. Recent advances in wholesale and retail cost were inexcusable if the live cattle market is to be accepted as a criterion. Beef consumption has been reduced to the smallest volume during the past twenty-five years and this is what is hurting the cattle market.

This week has cleaned up practically all the Pennsylanvania cattle and Kentucky sloppers have disappeared, but Indiana and Illinois slop-feeders still have a lot of steers back. They will endeavor to sell them out during July. The distillery delegation is closing the week on an $8.15 to $8.30 basis. Quarantine cattle have been running freely this week, Fort Worth, Kansas City and St. Louis being liberally supplied with steers from the ticky area and they must be reckoned with in debating on the why and wherefore of the market. At Fort Work killers have been getting thousands of 5½ to 6c steers and similar goods have sold at 5¾ to 6¼c at Kansas City. Timely rains have restained liquidation in the parched sections of Indiana and Illinois, consequently fewer common cattle have showed up. The menace of liquidation in the Southwest has been renewed by generous humidity which has revived grass and provided stock water which was getting scarce in many sections.

STEERS.	
Prime steers, 1,300-1,700 lbs.	$8.75@8.85
Choice steers, 1,250-1,500 lbs.	8.75@8.85
Choice steers, 1,100-1,250 lbs.	8.50@8.75
Good to prime yearlings	8.25@8.65
Medium to good yearlings	7.80@8.25
Common to fair yearlings	7.00@7.75
Good steers, 1,100-1,400 lbs.	8.30@8.50
Good steers, 1,000-1,200 lbs.	8.15@8.45
Fair steers, 900-1,200 lbs.	7.75@8.10
Medium steers, 850-950 lbs.	7.50@7.75
Inferior steers, 800-850 lbs.	7.00@7.50
BEEF COWS.	
Common to fair	5.00@5.40
Fair to good	5.40@5.90
Good to choice	5.90@ 6.65
Choice to prime heavy	6.65@7.10
Prime to extra heavy	7.10@7.50
CANNERS AND CUTTERS.	
Inferior canners	3.25@3.75
Poor to fair canners	3.80@4.00
Fair to good canners	4.00@4.35
Fair to good light cutters	4.40@4.60
Good heavy cutters	4.65@4.90
HEIFERS.	
Poor to medium killers	5.50@6.65
Medium to good	6.75@7.25
Good to choice	7.25@7.65
Choice to prime	7.65@8.00
Prime to fancy yearlings	8.00@ 8.60
BULLS.	
Canner and poor light	5.25@5.75
Light to medium bolognas	6.00@6.25
Good to ch. hvy. bolognas	6.40@6.60
Plain to good beef	6.65@7.00
Good to choice beef	7.00@7.25
Choice to prime butcher	7.25@7.50
FEEDERS.	
Selected, 900 to 1,150 lbs.	7.85@8.10
Selected, 650 to 900 lbs.	7.85@8.00
Good to choice, 600 to 900 lbs	7.60@7.80
Fair to good, 600 to 900 lbs.	7.35@7.60
Com. to fair, 500 to 800 lbs.	6.75@7.25
Inferior to com., 500 to 700 lbs	5.75@6.75
Good to choice stock heifers	6.65@7.10
Poor to good stock heifers	6.00@6.65
Go to choice stock cows	6.00@6.25
Poor to good stock cows	5.25@6.00
CALVES.	
Inferior to fair heavy	5.00@ 6.25
Fair to good heavy	6.25@ 7.00
Good to choice heavy	7.00@ 7.50
Gd. to ch. stock steer calves	7.50@ 7.90
Light skinners	7.00@ 7.50
Com. to good light vealers	9.00@10.25
Good to prime vealers	10.25@11.00

Hay trade has done another good stunt this week. Supply has been moderate and shipping demand has come stronger, which means that before long eastern killers will be forced to buy more hogs at Chicago and the market will have the benefit of competition. The 9c hog has placed a return engagement, the market closing on an $8.75 to $8.95 basis. Between choice light and heavy hogs there is a narrow spread of 15c, but the gap between quality and mediocrity is widening, owing to an increasing proportion of packing stuff in the run. Demand centers on 180 to 225-pound hogs of shipping quality, while big "packers" weighing 300 pounds and up are discriminated against and selling from $8.50 down. Prediction is made that by the end of July there will be a dollar spread between prime shippers and heavy packers. That June uncovered the summer low spot is now evident and as eastern demand broadens, competition will accentuate. Cheap hogs are impossible during the coming summer in the opinion of most people in the trade and the "wise guys" coincide in this view.

Bulk of sales	$8.80@9.00
Mixed, 210 to 250 lbs.	8.80@8.95
Mixed, 170 to 220 lbs.	8.85@8.95
Medium weights	8.85@8.95
Light butchers	8.95@9.05
Heavy butchers	8.90@9.00
Light shipping	8.95@9.05
Heavy shipping	8.90@9.00
Heavy packing	8.60@8.80
Rough heavy packing	8.45@8.60
Throwout packing sows	8.05@8.40
Fair to choice light	8.85@9.00
Light-light, 135 to 155 lbs.	8.80@8.95
Pigs, good to fancy	8.10@8.75
Pigs, inferior to fair	7.35@8.05
Boars, inferior to fair	3.75@5.00
Stags, subject to dockage	8.90@9.35
Government throwouts	4.25@6.75
Government pigs	2.50@4.00

Live mutton trade may get a regular stride in the near future. Certainly it needs steadying. For weeks past declines and advances of 50c to $1.50 per hundredweight have followed in rapid neccession. Keeping both market talent and country shippers guessing. Early in the week declines of 50 to 75c were registered, but the break shut off supply and 50c reaction followed. At the close lambs sold at $7.75, with the bulk at $7.75 to $7.50, with lax sorting and ewe trade was on a $4.00 to $4.50 basis, revival of demand for breeding stock having exerted a healthy influence. Sheep are quotable to $5.15, but few are good enough to make $5.00. The western range season has been inaugurated $7.25 to $7.75 buying the initial week's run of Idaho lambs, with Oregon sheep at $4.65 to $4.95. Kentucky stuff has been running heavily and packers have bought thousands of lambs at the Ohio river at $7.00 to $7.25, average cost of the week's purchases being $7.15. There is good demand for feeders the first Idaho lambs of the season to find the country outlet selling at $6.50.

NATIVE STOCK.	
Lambs, good to choice	$7.35@7.75
Lambs, fair to good	6.75@7.35
Lambs, common to fair	6.00@6.75
Lambs, culls	4.50@6.00
Ewes, good to choice handy	4.25@4.50
Ewes, good to choice heavy	3.75@4.00
Ewes, culls	2.00@3.25
Yearlings, good to ch. handy	5.85@6.60
Yearlings, fair to good	5.35@5.85
Wethers, good to choice	4.75@5.25
Bucks, fair to choice	3.00@3.50
WESTERN RANGE STOCK.	
Lambs, good to choice	7.35@7.75
Lambs, fair to good	6.75@7.35
Lambs, feeders	5.75@6.25
Yearlings, good to choice	5.50@6.25
Yearlings, fair to good	5.25@5.50
Yearlings, feeders	4.50@5.25
Wethers, good to choice	4.75@5.10
Wethers, plain to good	4.25@4.75
Ewes, good to choice	3.75@4.25

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending July 6, 1913:

Another week of hot weather, with local showers over the larger part of the state, has brought corn fully up to the average for the season of the year. The fields are clean; the plants are strong and vigorous and of good color, and are knee to waist high. The average temperature was about 5 degrees above the normal, but the rainfall was deficient except in a few localities in the northern counties, where heavy local showers, accompanied by high winds and some hail, occurred. Over a large area in the southern part of the state there was no rainfall. The weather as a whole was exceptionally favorable for haying and harvesting. Much clover hay was put up in fine condition, and probably half of the winter wheat and rye is in shock in southern sections. Oats and barley have improved during the last ten days and are filling well, although the oats straw is shorter than usual. Pastures, potatoes and gardens continue in good condition, but rain would be beneficial, and in some localities is badly needed. Hog cholera is again appearing in some of the western counties.

A summary of the July 1st crop reports show the average condition of crops to be as follows: Corn, 93 per cent; oats, 91; spring wheat, 92; winter wheat, 97; barley, 91; rye, 97; flax, 92; potatoes, 94; hay, 97; pastures, 101; apples, 76; plums, 64; grapes, 92. The acreage of corn is practically the same as last year, there being only a slight increase. On July 1st, corn was rated at 80 per cent and on July 1, 1912, at 89 per cent.

Geo. M. Chappel, Sec. Dir.

JULY THE MONTH TO PROPAGATE ROSES.

To the Editor of The Homestead:

I have found July the best month to propagate the Crimson Rambler and most of the hybrid perpetual roses. The blooming season is over and the blooming shoots are ripened up well, and make firm wooded cuttings, the only kind that will root. Never waste time putting in a pithy cutting. Tea roses can be propagated as well at this season as any other, but they bloom continuously, and any shoot from which a bloom has just matured will make good cuttings unless soft and pithy.

Tea roses propagate readily, but the Crimson Rambler, Baltimore Belle, the hybrid perpetuals, and several other hardy sorts are rather difficult, for they are apt to shed their leaves soon after being put in the sand, and no cutting will root without a leaf, that is, root right, so they will make even fair plants, and it is very seldom they will root at all, though they keep promising to do so, and form a mass of callous often as large as a marble.

I have rooted thousands of roses of all kinds in the greenhouse, but the best success I ever had was when I was a boy I put a lot of Crimson Rambler and clio cuttings in a box of sand. I was just beginning to be interested in flower growing, and was hoping that some day I would have a greenhouse, and I had sent for Henderson's "Practical Floriculture," and found he said it was useless to try to propagate any rose grown out of doors, as they would not root. I had that beautiful blush pink rose and I did not know its name. I wanted to get more of it, and I wanted to make a Crimson Rambler hedge also, so I just determined that Peter Henderson might be mistaken. I took a box abbout eight inches deep and cut it down on one side two inches, and slanted the ends down to it, and fitted a glass on top. The bottom of my box was pretty solid, so I bored a hole in each corner, and put some cinder crushed pretty fine over each hole, and filled the box with four inches of sand washed perfectly clean. I took another box a little wider than my box and just long enough so it would just fit inside it, and, fitting a couple of cleats in the larger box, I set the cutting box inside, just so the top of the glass was four inches below the top on the highest side. There were four inch spaces between the sides of the two boxes, front and back, so there was good circulation of air. I fitted frame to hold a heavy muslin curtain so it would shade the cutting box at all times except in the early morning. My box was then ready for the cuttings.

Now in taking these cuttings I cut some with a heel, or piece of the old wood, attached, some with just one joint, and some with two or more joints. The small wiry shoots with a bit of the old wood attached rooted somewhat the best, but the difference was not great. The cuttings were set in the sand about an inch and a half, or just so the first joint was clear. Care was taken to get the leaves standing as nearly upright as possible by slanting the cuttings some, but they were slanted the same.

The sand had been thoroughly saurated before the cuttings were put in and then I watered them well every morning and sprinkled them once or twice during the day, as the weather seemed to make advisable. Nearly all the Crimson Ramblers rooted, though many of them lost their leaves after they had started, and made such a feeble growth I discarded them. I got probably 20 per cent of the other varieties to grow.

At one time when rooting a lot of cuttings I let the sun shine on them direct through the glass, having neglected to put the curtain in place, and, along about two o'clock I found the foliage "boiled" so it dried up and fell off in a day. Of course those cuttings were gone. An hour's neglect will easily destroy the result of several weeks' careful labor. Subscriber.

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SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

Breeding Operations at Woodlawn Farm.

Woodlawn Farm, Sterling, Ill., is one of the big breeding establishments of the middle West, a place where results are being accomplished and where affairs are carried on in a big way. One of the largest and most select herds of Holstein cattle is maintained, as well as a stud of Percheron horses and a large band of Shetland ponies, while swine breeding and the raising of market hogs is by no means overlooked. One thousand acres of as good land as can be found in Illinois is embraced in this farm, or farms, rather, for there are two of them, and from the standpoint of productiveness they are hard to beat. The directing head of affairs, the man who brought the institution to its present successful condition, is Judson T. Williams. Some ten years ago he purchased part of the present land equipment. It was in a run-down condition, and he faced a hard task in bringing it back to its producing ability, but he has succeeded most wonderfully, as is attested by the handsome yields that are secured from the fields each year. Mr. Williams early realized that nothing will so build up soil as live stock, and there has never been a day from the time he secured the land up to the present time that there has not been a plentiful supply of live stock upon the farm. As occasion arose Mr. Williams secured adjoining lands, until today there are 1,000 acres embraced in the plant at Woodlawn Farm. The biggest live stock operations are carried on in Holstein cattle, the herd at the present time numbering over 250 head. The management at Woodlawn Farm carries on a large dairy equipment, selling milk and butter and manufacturing ice cream on a large scale, besides their breeding operations, and as a consequence the only cow they have any use for is the strictly working kind. They do not keep any star boarders. All cows have to work all the year around. Many of the cows have records that are remarkable, and they have all been made under ordinary conditions, as they chase no fads or fancies at this establishment. The cows for this herd have all been selected with a view to combining high milking qualities with conformation and quality, and to secure satisfactory results along the breeding line the best Holstein bulls that money could procure were selected for use at Woodlawn. The head herd bull at this time is Sir Netherland Cornucopia, who has twenty A. R. O. daughters. This bull represents a rare combination of breeding, his ancestry in all directions not only having great milk and butter records, but being noted prize winners as well. His nine nearest dams average almost twenty-four pounds of butter and nearly 500 pounds of milk. His great grandsire, Sarcastic Lad, was grand champion at the St. Louis World's Fair, and his own brother in blood has been twice champion of the New York State Fair and has sired first prize winners. The Woodlawn herd now contains a large number of daughters of this great sire, and they are all giving a most satisfactory account of themselves at the milk pail. Prince Hengerveld Segis by a son of King Segis, and out of a twenty-nine-pound daughter of Korndyke Queen De Kol's Price, is another bull in use at Woodlawn, and he is proving himself a most prepotent sire. King Cornucopia Hengerveld's Segis is the youngest bull at Woodlawn, and is a splendid individual, representing a combination of three of the greatest families of the breed, Hengerveld De Kol, Kng Segis and Cornucopia. With this array of great bulls mated to the outstanding cows at Woodlawn nothing but the best results can be expected, and a visit to the farm shows this to be the case. Woodlawn is a breeding establishment, the element of speculation in no way entering into the proposition. The management does not aim to produce a few sensational animals, but rather to breed a class of cattle whose merit is well above the ordinary, that are always dependable and continuous workers. A visit to the dairy herd at Woodlawn is a day well spent. The other live stock operations at this farm, while carried on on a smaller scale than the Holstein herd, are yet handled with the same thoroughness and attention to detail and the same satisfactory results are being achieved. Mr. Williams has a great love for a good horse and the producing band of Percheron mares shows the work of a master hand, while no establishment can show a stronger lot of Shetland ponies. The production of pedigreed seeds is a new department at this farm, established last year, but it bids fair to become a very important factor. It is as a Holstein breeding establishment, however, that it takes pre-eminently a front rank, and at no farm will a better class of cattle be found, nor cattle that give a better account of themselves as a working proposition. Mr. Williams has given many years of his time to accomplish the present desired results, but has always gone ahead with a definite object in view, and that object he has accomplished—the building up of a continuous working herd of Holstein cattle of the best breeding and strongest individual worth.

Hanna's Short-horn Dispersion Sale.

One of the most important events in recent years in Short-horn circles will occur at Chicago, July 29th and 30th, when the Cottage Hill Short-horn herd of D. R. Hanna will be dispersed at public sale. Established some fifteen years ago, this herd has long been one of the largest and most prominent in the country, and the decision of Mr. Hanna to disperse the same will be received with regret by Short-horn lovers everywhere. Mr. Hanna founded his herd by securing the very best blood obtainable, and from time to time has added to the same by liberal purchases, both at home and abroad. Some of the greatest bulls the breed has produced have been used at Cottage Hill, and the present herd sire, Imp. Villager, is destined to leave his impress as a great sire upon the entire breed. The show ring record of the Hanna Short-horns is too well known to need any detailed mention here. Under the skilful hand of Manager John Garden they have been a strong factor in all the big shows for the last decade, and have to their honor many of the most desirable winnings in the show ring annals of that time. Wherever the show was the hottest there the Hanna Short-horns were to be found and always either at the top or fighting for the top. One hundred and twenty-five head of cattle are cataloged for the coming sale, and every one has a straight Scotch pedigree. Even were it not a dispersion sale, it would be a remarkable offering of cattle, and when one stops to consider that included are many cattle that Mr. Hanna has hitherto absolutely refused to price, the reader can at once see that the sale is something far out of the ordinary. There will be fifteen bulls, five of them imported, and the list includes the great Imp. Villager, one of the greatest breeding Short-horn bulls in the country today, his show and breeding sons, Village Denmark and Village King, several young bulls by Villager and Village King, and four bulls that were bought in Great Britain by Mr. Hanna for use in the Cottage Hill herd before he decided to sell it. They are Champion of Scotland, Scotch Mist, Cornerstone's Heir and Scotch Buckle. The female portion of the sale numbers 110 head, thirty-five of them with calves at foot by Villager, Village Denmark or Village King, and all of breeding age are in calf to one of these bulls. Thirty daughters of the great Villager are listed, which of itself should be sufficient to draw buyers from all sections. In later issues we will have more to say in detail regarding this great sale, the most important dispersion event of recent years. The catalog tells the story and should have wide distribution. Write for a copy to John Garden, Ravenna, Ohio, mentioning The Homestead, as per the advertisement on page 24.

Regier's Durocs.

One of the best lots of spring pigs, numbers considered, that we have seen to date are owned by A. J. Regier, Henderson, Neb. It is surely fitting that he should have such a herd, for without question he has one of the best sow herds that we have seen in the state. His herd of sows is not large, something like a dozen all told, but what they lack in numbers is surely made up in quality. There are a half-dozen sows on this farm that would made creditable showing at the state fair They are by Uneeda Crimson Wonder, Lincoln Wonder, Cleatham's Pride and Crimson Wonder 4th. This is surely royal breeding, and the sows are careful selections. One Uneeda Crimson Wonder sow was the second high priced sow of the Widle sale last year and she has a litter by the champion boar, Critic B. This is the best Critic B. litter that the writer has seen this season. They are really great. The greater part of the remainder of the pig crop is sired by R. & J.'s Golden Model by Golden Model 2d, with a litter or two by A. J.'s Crimson Wonder by Crimson Wonder 4th. Crimson Wonder 4th was the first prize junior yearling at Lincoln a couple of years ago, and has sired some wonderfully good stuff. Mr. Regier will not make a fall sale, and will offer these boars at private treaty. There are pigs here as good as we have seen anywhere, and they are being priced right for immediate shipment. The writer would lose no time in ordering their pigs, were we in the market, for they are absolutely right, and a moderate price is asked, and some saving in express may be effected. When you write mention The Homestead. Kindly watch for further mention of this herd. We forgot to mention that Mr. Regier has two boars that he would sell. One is a fall boar by R. & J.'s Golden Model and out of sow by Cleatham's Pride and the other is a son of Crimson Wonder 4th and out of a Lincoln Wonder Sow. This is the very best kind of breeding and these are two extra good boars. The Crimson Wonder 4th boar is really a herd-heading proposition.

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25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent fall boars, some choice herd headers. Also 50 good spring boars. Write me if you want one and mention Iowa Homestead. Address
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40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
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THRIFTY fall pigs by boar of good breeding. Will make good selling prices. Also one two year old boar, Royal Banner 22289, by Perfection by Climax. Descriptions and prices furnished on request.
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100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
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O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. Fred Ruebush, Sciota, Illinois.

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

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I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

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Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

Orme's Prize-Winning Chester Whites I am offering 4 fall boars, 10 fall sows. $25 ea. A.C.Orme, Nodaway, Ia.

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700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

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COOPER'S SPECIAL 30-DAY BOAR SALE

WE have over **100 head of boar pigs of spring farrow.** We have 25 sows to begin to farrow in 2 weeks. We must have room for them. Hence, for 30 days we are going to sell these boars at prices they will bring on the market next fall, and they will be worth $40 to $100 each as breeders at that time. They are all immunized. We guarantee safe delivery and record them at

25 DOLLARS EACH

They are sired by Big Expansion (the 800-lb. son of the noted Dorr's Expansion), Big Bone 2nd (weighing 900 actual pounds, a son of Big Bone), Chief Leader (weighing over 500 lbs. at 14 months old), and Ideal Chief, and other noted boars. **The dams are sows weighing from 500-lb. yearlings up to sows of over 800 lbs.** If you are in the market for the biggest blood lines, from big sires and dams, send your check, tell us the kind of pig you want and we will send him or return your money. You will not buy such boars, such breeding, at the price again this year. Buy your boar now and save 20 to 50 dollars on him.

W. H. COOPER - - - - - - - - - - - **HEDRICK, IOWA.**

BIG BONE 2d 161497.

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I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months. **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for June delivery, or at weaning time, for orders booked during May, or while they last, **$25 to $35.** Must be bought during this month to get this price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

C. F. Adams' Big-Type Poland Chinas

I WILL sell spring pigs sired by my great herd boars, **Big Halvor** (generally conceded to be one of the very best big-type boars in Iowa), **Maid's Halvor 1st,** a son of **Big Halvor** and out of the mammoth sow, **Long Maid,** and one of the grand young boars of the breed, **Mammoth Jumbo,** a son of the noted **Big Jumbo** and **Grand Chief,** bred by John Miller. These pigs are out of a herd of

Sows That Cannot Be Surpassed for Size and Quality

These sows are bred in the purple, many of them being sired by the great sire, **Big Halvor,** others by **Coming Wonder, Big Nelson,** etc. I know I can please you in a pig and that you will be more than pleased with the manner in which they develop. These pigs will be worth three and four times what I am asking for them within the next year. Write me for prices, mentioning Homestead

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20 FALL BOARS sired by the 1,000 pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. Mention The Homestead when writing.

E. W. KREISCHER, MT. VERNON, IOWA

LAWSON'S SENSATIONAL BIG POLAND CHINA BARGAINS

THE home of the noted breeding boar, **Long King's Equal** (weight 965 lbs. in breeding condition, weighed in the presence of forty breeders). Sows bred to him and **A Wonder's Jumbo** for fall litters. **150 Choice Spring Pigs** that I am now offering at private treaty. Will not hold fall sale and will sell these out privately at less than half the money they would bring in a sale. Now is the time to get your bargain while the good ones are here. Write me at once for description and prices and mention Homestead.

JOHN B. LAWSON - - - - - **CLARINDA, IOWA**

Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 250 to 275 pounds. I have spring pigs weighing 75 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment.

JOHN I. DRIPPS - - **SPRINGVILLE, IA.**

25--Big-Type Poland China Sows For Sale--25

These are all strong in the blood of the strictly big kind and are bred to the 900-lb. Mouw's Big Sioux for fall litters. I am also offering to sell my splendid 2-year-old boar, Smooth Jumbo. Write me at once and mention The Iowa Homestead. Address - - - **GEORGE GLYNN, Sioux Rapids, Iowa.**

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

BIG-TYPE POLANDS

OF the thick, smooth, heavy-boned kind. Fall and spring boars and gilts sired by Dale Expansion 190135. Also choice sows bred to him for fall litters.

F. E. JACKSON, HURLEY, SO. DAKOTA.

AUGUST GORDER'S POLAND CHINAS

A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.

AUGUST GORDER, **PLATTSMOUTH, NEB.**

FAULKNER'S SPOTTED POLANDS

THE old original big-boned spotted kind. Now booking orders for spring pigs to be shipped when weaned. Pairs or trios, no kin. Everything Registered. For the kind of our forefathers address

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Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

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BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, **Plattsmouth, Nebraska.**

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to H.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

L. S. Fisher & Son, R. 1, Edgewood Iowa.

BIG HERCULES

ONE of the very biggest of all the extra big ones is at the head of our Poland China herd. In our Oct. 23rd sale we will offer a few sows either bred or with breeding privilege to this boar. We have an extra select line of spring boars that we will offer at that time. They are by the great Gold Medal. Let us tell you of these big Polands.

J. T. R. NASH & SON - - - - - **MINDEN, NEBRASKA**

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

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LINE BRED EXPANSION BOARS

SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address

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MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R

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CHOICE SOWS BRED TO LONG HARVE

HIGH-class Poland China sows, mostly matured and known producers, are for sale and they are bred for fall litters to the great son of Big Tom, Long Harve. These sows are all extra high-class and will make good as brood sows. Address

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IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

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Alfalfa Herd Aberdeen Angus

WE now offer for immediate sale from the famous "Alfalfa Herd Aberdeen Angus" a few very choice bulls of serviceable ages, also a very desirable lot of females and young things. Readers of The Homestead searching for extra high-class breeding stock at prices well in keeping with the values offered, will be interested in what we have for sale. Write us or come and see us at once.

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ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazlmura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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WE offer at private treaty **50** coming yearling Aberdeen Angus heifers, sisters in blood to champions and reserved champions at Chicago, 1911. Fifty imported females--most sired by our great imported bulls; 650 head in combined herds. Bulls of all ages, high-class herd headers for sale. Write or come and see.

Escher & Ryan, Botna, Iowa. **Chas. Escher & Sons, Botna, Iowa.**

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

ANGUS BULLS

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Samuel Johns, Sec. A., Wilmington, Ohio

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

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Veterinary Editor The Homestead.

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WE are offering 50 head of good serviceable bulls. Good shape, strong ages, big-boned fellows and strongly bred in Anxiety blood. Come and see us right away.

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STOCK for sale of both breeds at all times. Write or come and see me. Address

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SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
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WE are offering some very choice young Scotch and Scotch-topped bulls for sale. Some choice herd headers among the bunch. Write or come and see us.
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HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

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WE bred and showed the grand champion, Critic B. We still have his sire, Dusty Critic 2nd and have some choice prospects by him. Cedar Grove Cliff, the first prize boar Kansas State Fair, also in use. He is a son of Lincoln Chief, the first prize boar, Neb. in 1911. We would like to hear from you if in search of some choice breeding stuff, and would like to meet you at the Nebraska State Fair.
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OCTOBER boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears.
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CHICAGO, ILLINOIS, JULY 29 AND 30, 1913

125 Scotch Bred Cattle 15 Bulls--5 Imported
35 Cows with Calves at Foot 30 Daughters of Villager

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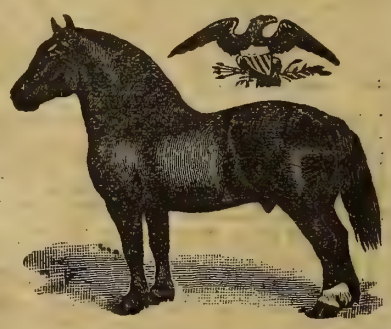

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BUY THREE IN ONE
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FILE No. 58

The Iowa Homestead

VOL. LVIII. NO. 29 DES MOINES, IOWA, JULY 17, 1913. WHOLE NO. 2910

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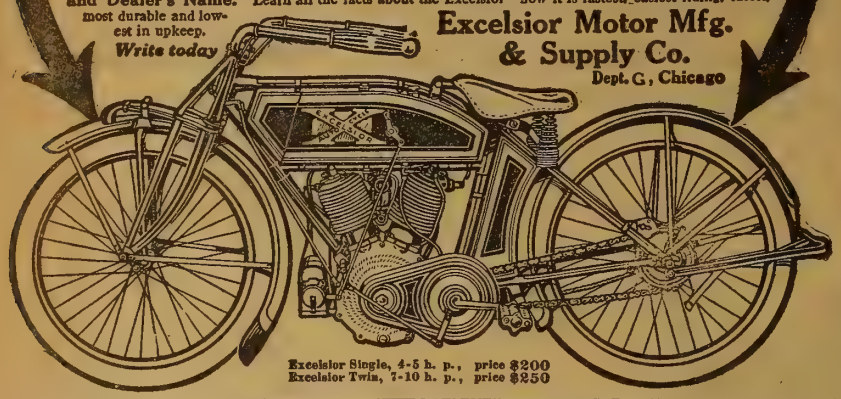

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Spalding Department 68
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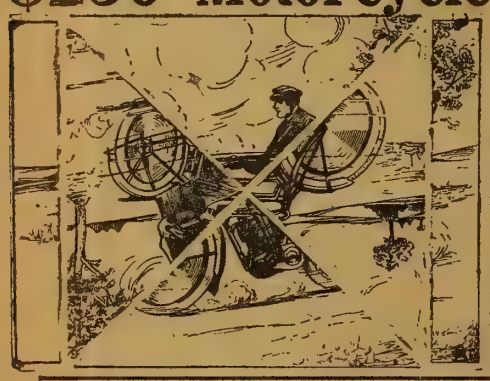

Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Popular Company
507 Popular Bldg. Des Moines, Iowa

$25 for a Name for this Pony

I will give **$25.00 FREE** for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today

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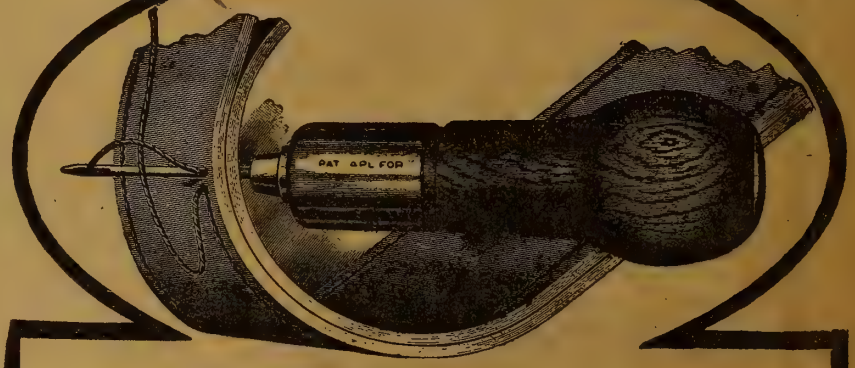

DOES YOUR

Harness Need Mending?

SEEDING, corn plowing, haying, harvesting and threshing are all destructive to harness. No doubt your harness needs mending. Anyone can mend his harness with my Speedy Stitcher. The broken part will look just like a harness maker had mended it.

The Speedy Stitcher is the latest invention and the most effective of anything in the form of an Automatic Sewing Awl ever offered. Its simplicity makes it a thoroughly practical tool for any and all kinds of repair work, even in the hands of the most unskilled. With this Awl you can not only mend harness, but shoes, tents, awnings, pulley belts, carpets, saddles and suit cases.

The Speedy Stitcher is provided with a set of diamond-pointed, grooved needles, including a special needle for tapping shoes. It also contains a large bobbin, from which the thread feeds. Both needles and bobbin are enclosed inside the handle out of the way. This Awl has a tension which enables you to tighten your stitch. These valuable features you will not find in any $1.00 Awl.

MY BIG FREE OFFER

I will give one of these excellent Speedy Stitchers absolutely free to anyone who will send me $1.00 for one year's subscription to The Homestead.

Kindly use the coupon below and be sure to send your order in today before you forget it.

JAMES M. PIERCE - DES MOINES, IOWA.

USE THIS COUPON

Date 1913

James M. Pierce, Pub. Homestead, Des Moines, Iowa.
Dear Sir:—Enclosed find $1 for one year's subscription to The Homestead. For my promptness send me postpaid free of charge your Speedy Stitcher.

My name is.....

Postoffice .....

Rural Route..... State.....

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JULY 17, 1913.

SAVING OUR GREATEST CROP

How the Campaign to Put Babies Alongside Hogs and Horses was Begun and is Being Carried on to Success at Various Grain-Belt State Fairs.

A SWEET-FACED, white-haired country woman walked out from the Western Live Stock Show at Denver last winter, gave her hair a few deft pats, breathed a tired sigh and wasted just enough energy to whisper to her companions, "I feel as if I were the center of a whirlwind that bids fair to take me off my feet." Saying which, she hurried to the depot, took a fast train to the capital of Iowa and, having plodded wearily up the long hill to the state house, fairly swept the staid legislators off their feet with the enthusiasm with which she pleaded for a $75,000 appropriation for a new building on the state fair grounds.

For the first few minutes the legislators were only idly interested. Then a mild sort of curiosity began to manifest itself as to what sort of a building this little gray lady was demanding. They had made appropriations for swine, horses, cattle and sheep; perfectly good state money had been expended for the housing of everything from acorns to zebras, "from agate to zinc." If there was any crop grown in Iowa for which ample provision had not been made, either for exhibition booths or competition premiums, they would like to know what it was. Accordingly, they sat up with anticipated triumph aglow on their faces as one of their number asked the little country woman what she had in mind when she spoke of Iowa's greatest crop, as yet altogether unrecognized by the generous state.

A smile played about the lips of the animated and effeminate whirlwind vortex

A GOOD CHEST ON A STURDY LITTLE STATE FAIR ENTRY.

with the sweet face and the white hair as she murmured one word only:

"Babies."

The story with which this amazing and unexpected reply was followed gave the legislators an inkling of the big things concealed by the little answer.

At the 1911 Iowa State Fair, for the first time in any state, a babies' health contest was held, under the direction of energetic and charitably inclined doctors and club women. A country mother came with her two-year-old baby in tow. He was a sweet little fellow, with an ever-ready smile and his fond mother had pictured to herself, all the way as she drove in from the farm, how he was bound to eclipse all the other entries and win first prize. Was not his hair silkier and browner; were not his eyes a heavenly

THE LITTLE GRAY COUNTRY WOMAN TO WHOM CREDIT IS DUE.

shade of blue; were not his cheeks perfect ovals? But when the kindly doctors had stripped the little lad, felt of his muscles, peered down his throat, thumped his chest and otherwise determined his fine physical points, as carefully and as systematically as the live stock judges went about their work in the handsome and permanent pavilions adjoining the humble little tent where the babies were herded, they shook their heads and passed down the line to the next entry. The indignant farm mother demanded reasons. They were quickly forthcoming: enlarged tonsils, adenoids, flabby muscles, trace of tuberculosis and so on; with not a single word about silken hair or eyes of heavenly blue. One of the doctors took the farm mother aside, handed her pamphlets and books on the care and feeding of babies, explained that the contest was for health, and not for beauty, and then bade her take hope, follow the prescribed course of daily routine and bring her baby back the next year.

That little rejected laddie from the farm, carefully reared on the outlined course of exercises and dietetics the ensuing year, won first prize in a class of more than forty entries at the contest held at the Iowa State Fair in 1912.

"So you see," said the little gray lady, "we can breed our babies with just as good and just as apparent results as we have long bred our pigs."

That is how it came about that the dignified legislators of a state as great and as rich as Iowa decided to appropriate $75,000 for a Child Welfare building, Iowa being the first thus formally to recognize the new campaign, just as it was the first to hold such a contest. There are figures a-plenty to prove the necessity, the crying need, of just such a campaign and just such recognition. Consider these, for instance: There are in Iowa 7,545,000 hogs, one-sixth of which are suffering from cholera. Immediately an insistent demand goes up for $50,000 to suppress this disease, for the hogs are worth $12,000,000. There are in Iowa, likewise, 258,000 babies and children under five years of age, one-fifth of whom will be dead within the coming five years, following the ratio proven by medical science. A child, well born, is estimated under the law to have a value of $500, a total for the state of $129,000,000, one-fifth of which, or more than $25,000,000, will be lost, as against $12,000,000 on pigs. Why, then, argued the little gray lady and her determined co-workers, should the legislators look aghast at an appropriation of $75,000 for a campaign to save babies when they thought nothing of appropriating $50,000 with which simply to check disease among pigs. Babies versus pigs, pigs versus babies, looked at either way there seemed to be merit, indeed, in the proposition to pay as much attention and give as much money to the greatest crop of all, which heretofore had been absolutely overlooked.

The idea came quite unexpectedly, it was of small beginnings. It originated in the brain of the little country woman who is

GOOD BRAINS HIDDEN AWAY BENEATH SILKEN TRESSES.

devoting her time to its propaganda. She was in charge of a booth at her home county fair, just such a fair as is held annually in hundreds of rural counties: pumpkins and slow horse races, hogs and crazy quilts, homemade jelly and threshing machines snorting all over the lot. "I was listening

(Continued on page 9.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

A SHORT OR LONG CATTLE-FEEDING PERIOD.

During the last few years experiments have been conducted at the Nebraska station for the purpose of acquiring information relating to the factors involved in short and long feeding periods for fattening cattle. The outcome of these experiments leads to no definite conclusion. In addition to economic conditions bearing upon the problem the feeder must always face the fact that he has no control over market conditions. While it is possible to finish or half finish different types of cattle and determine in that way the cost of gains under a variety of conditions, yet when it comes to marketing, values may be on such a basis as to wipe out all profits, even though gains have been economically made and on the other hand the market may take a turn to afford even the extravagant feeder a profit.

In a bulletin on this subject the Nebraska station furnishes one illustration showing the effect of market conditions in two lots of short-fed cattle. On March 17, 1910, one lot of short-fed cattle was marketed and returned a profit, including pork, of more than $28 per steer, while the cattle used in the second trial, beginning March 17th and marketed 120 days later, returned a profit of less than $10 per head, notwithstanding the fact that the latter made more rapid and cheaper gains than have ever been made by any other lot of steers fed experimentally at this station. Part of this is due to the condition of the cattle when started on feed in the second trial, but it is due largely to the influence of the market conditions.

In spite of the important effect of values at marketing time there are a few factors that must be kept in mind by the cattle feeder. For instance, steers of poor quality that could under no circumstances be made into prime finished cattle should not be carried to a high finish. The last 100 pounds of gain required to make a steer prime are the most expensive and the increase in the selling price must be correspondingly larger to secure profit from the additional finish. Obviously, therefore, it will not be profitable ordinarily to put on this high-priced finish when there is every assurance that it will not command a high price in the market. On the other hand on a well-bred steer this last 100 pounds may make him a market topper and the result in this case may justify the high finish, though the latter part of this may be made at a high cost.

The relative supply and cost of grain and roughage to be disposed of is a factor which should, in a measure, determine the length of the feeding period. Cattle for short feeding are usually in higher condition at the beginning of the feeding period, and therefore the proportion of grain to roughage consumed is greater than with cattle fed for a longer period. Where feeders wish to dispose of large quantities of roughage the feeding period is necessarily longer than when a larger proportion of concentrates to roughage is to be fed. In a general way, therefore, it may be said that the low-grade steer should be used for a short feed only, while in the case of the well-bred, fleshy steer a high finish will usually bring the surest and largest profits.

In the case of the individual who raises his own feeders and carries them to a finish there is only one type that can be handled at a profit on high-priced land, namely, the steer that inherits fleshing tendencies. Such cattle are the outcome of clearly defined breed characteristics, having in color and conformation the stamp of one of the great beef breeds. It does not discount the sound doctrine which requires that corn-belt farmers raise only a good type of feeders to say that when feeding cattle are put into the feed lot from outside sources it is under certain circumstances entirely practical to use steers of rather inferior grade if these are bought right and brought to a nicely warmed-up condition on the cheaper sorts of feed raised on corn-belt farms.

LOW RATES TO IOWA FAIR.

The Iowa State Railroad Commission has ordered a rate of one and a half cents a mile to and from the Iowa State Fair, which opens in Des Moines August 20th. This is in line with the law enacted by the legislature last winter providing for such reduced rates to all exhibitions and fairs with an annual attendance of 75,000. During the past week the railroad commision held a public hearing, at which representatives of the state fair board and of the Commercial Club of Des Moines urged enforcement of the law and proved the state fair to be in excess of the figures established by the legislature. Most of the main railroads of the state were also represented at the hearing. After taking the matter under advisement for a few days the commission ordered all roads in Class A (which includes practically all the leading steam lines of the state) to grant a round-trip rate of one and a half cents a mile instead of the flat two-cents-a-mile rate demanded last year.

Officials of the state fair board are confident that this reduction in rates will result in much larger attendance from outside Des Moines. The fact, however, that absolutely no passes will be issued to this year's fair, except to the immediate families of the fair board directors and to the exhibitors and their clerks, will offset to some extent the larger attendance resulting from the reduction in railroad rates.

WHICH ALFALFA CROP FOR SEED?

Alfalfa seed has averaged high in price for many years and seed values always suggest to the alfalfa grower the possibility of realizing a big price out of the seed crop. This is indicated by the number of inquiries received by this paper from men who are seeking information along this line, more particularly with reference as to which crop to cut for seed and when to cut it.

The United States Department of Agriculture has recently pointed out in a bulletin that the thinner stands of alfalfa make a better seed crop than where the plants are very thick. Where the crop is thin each plant develops more perfectly and hence is better adapted to the production of seed. The sunshine also penetrates the crop more completely and this in turn is favorable to seed development. It is further indicated by the fact that where isolated plants are found on roadsides they invariably are loaded with seed.

In his book, "Making Money on Farm Crops," F. B. Nichols points out why the second or third crop is better to use for seed than the first. Among other things this author says:

Usually the second or the third crop is left for seed, depending on the locality. August is a good time to have the plants maturing their seeds. The setting of the seed should be watched carefully, for if there is to be a light and consequently unprofitable setting of seed, as is often the case, it is important that this be known as early as possible, so the crop may be cut at once for hay, and the succeeding hay crop allowed to begin its development. If the conditions before blooming are such as to produce a rank vegetable growth, it is a fairly sure indication that the chances are poor for seed. If, however, the soil becomes dry just at this time, a fair seed crop may sometimes be obtained. Also, if the blossoms appear sparingly or if they appear freely but blast or wither without setting pods the chances for a seed crop are greatly reduced, and the crop should be cut at once for hay. After this cutting, another fair crop of hay may usually be obtained. If the cutting be delayed too long, it will be at the expense of the next crop, as the time for its development may be short. Another indication that a seed crop is likely to be very light is shown when the basal shoots begin to grow in anticipation of the succeeding crop. The development of these basal shoots takes place at the expense of seed development on the older stems.

If heavy rains occur or if continued cold, damp, rainy weather conditions prevail when the plants are in full bloom, the prospects of a seed crop are greatly reduced.

The chances for seed are good if the reverse of the above conditions prevail, and the plants have made a medium stocky, well-branched growth with an abundance of bloom, especially if the warm, dry conditions continue. It is practically impossible, however, to infallibly foretell the seed crop. The crop is not assured until the plants are well loaded with clusters of well-filled pods.

It goes without saying that conditions are not very favorable for alfalfa seed production in the corn belt and for that reason we advise our readers not to place their hopes too high on the revenue that might possibly be derived from this course. However, where the crop is not too thick so that the individual plants come to their fullest development and where the rainfall is such as to prevent seed production by the development of new plants there will exist the possibility of obtaining a fair crop.

DESTROY THE WEEDS.

The Iowa state weed law requires that between July 15th and August 15th each year the owners and holders of all lands shall destroy all noxious weeds and prevent their coming to maturity. One of the first official acts of the Iowa Highway Commission, created by the recent legislature, was to designate June 28th as Weed Day, with the result that hundreds of farmers, particularly in the southern part of the state, devoted a good part of that day to cutting down weeds. The response to the call of the commission was generous. The commission's attention was directed, however, to the fact that many weeds mature later in the northern part of the state than in the southern, making it advisable that a later date than the one first designated be selected as state weed day. Accordingly the commission decided upon July 15th and issued a call for a state-wide observance. We have no doubt but that this call has been observed in the generous and far-reaching manner it deserves.

The new Iowa weed law not only requires the owners or holders of all lands to destroy noxious weeds, but provides for their cutting by the municipality or county (in the event that the holders do not do this themselves), the cost thereof to be taxed up as a special lien against the property. The State Highway Commission believes that equally efficacious with this statute will be the pride which every Iowa farmer has, not only in the welfare of his own land, but in the general appearance of the entire community. In the call issued for a general observance of state weed day, the commission says: "State weed day is a call to the pride and loyalty of every holder of Iowa land. In destroying these weeds the first steps will be taken toward the realization of 'A More Beautiful Iowa,' when all the roadsides will be seeded and when these unsightly waste spaces will become a profitable field of timothy and clover."

The practical benefits of restoring to profitable cultivation the large areas now given over to wasteful weeds will be realized by every farmer.

SIMPLE FARM BOOKKEEPING.

A recent issue of an Iowa daily newspaper contained this paragraph:

Every farmer should have either in his house or his granary or scale house a little office where the accounts of the farm may be and should be kept, where he can talk business or study it in quiet. He ought to be able to strike a balance sheet from his records of the business done, the profits secured.

The suggestion is an admirable one. The question naturally arises: How shall the work be carried on? In most farm homes it will be easy to assign a room or even a corner of some room for the farm office. But how shall the accounts be kept? There are few farmers with a business college education, even though their sons and daughters are attending these institutions in large number. The intricacies of double-entry bookkeeping are sufficient to keep many a farmer from attempting the job. Is there not some simple and easy way of keeping the records? We are indebted to Mr. E. E. Rushing, of Tunnell Hill, Ill., for the following simple and practical advice on how to proceed:

I think it is best to use three separate books. First, a tablet such as the children use at school, may be used as a day book, and it is cheaper and more convenient than the more expensive ones. One tablet will last the average farmer about a year. A complete record of each business transaction should be made on this tablet, stating what was bought or sold, how much was paid or received for it, and to whom it was sold or from whom it was bought. This record can be made with a pencil every evening and will only take a few minutes to attend to it. The full details of each transaction should be made.

The second book should be a day book journal. This book should be ruled each way, dividing it into as many columns as you wish to make. The journal should be paged. It is best that the records in this book be made with ink. The transactions should be copied from the tablet to this journal as often as one wishes, but twice a month is often enough. At the left-hand side of the journal should be a space for the date. The next column should be wide enough to permit a short description of the transaction. The next column may be marked "personal accounts" and all accounts with persons where there are credits or debits to be given, should be placed in this column. If accounts of cattle, hogs, sheep, poultry, etc., are wished they should also be kept in this column. The next column may be for expenses, and all expenses should be kept, down even to a few cents. This will show the total expense for the year, no matter what it is for. There should be a column for income, and all income received, whether it be for stock sold off the place, or for labor performed away from home, should be placed in this column.

A double column should be made for cash. The right-hand side for "cash credit" and the left-hand side for "cash debit." All cash received should be placed on the left-hand side, and all cash paid out on the right-hand side of the account. The total of each of these columns should be placed at the bottom of the page; then subtract the cash credit from the cash debit and the remainder will give you the amount of cash on hand. This balance should be carried to the next page and placed in cash debit column.

The ledger is the third book to be used. A ledger that will last several years may be purchased for twenty-five cents. Every amount found in the "personal account" column should be posted in the ledger. Each account has a separate page, which has a credit and debit side, the right-hand side being the credit side. All your accounts should be placed on the debit side. Each personal account may be kept separate in this way.

This may seem like a long process to some, but if you will study it awhile, you will find it to be simple. The whole equipment will not cost more than $1 and will last the average farmer a long time. If the successful farmer is to know how he stands at all times it is absolutely necessary to keep a set of books. I believe it is just as beneficial to the farmer to keep his farm accounts as it is for the merchants and other business concerns.

There is nothing suggested above which the average man, whether he live on a farm or not, cannot easily practice. A little help now and then, perhaps, from the boys or girls who are solving arithmetic problems at school, with perhaps a few lessons from mother in the gentle art of keeping things neat, and the farm office may be installed and maintained much more cheaply and easily than we have been led to think. In these days when a quarter section farm requires the investment of $30,000 to $40,000 for land, machinery and stock, it is altogether wrong to let the years go by with no record of profit or loss and no way of telling what animals and what acres are productive or unproductive.

New milk is a balanced ration for a calf, as it contains the protein and the carbohydrates in the right proportion. When milk is skimmed the fat is taken out, and an unbalanced ration is the result, one that is richer in protein than it ought to be for the young calf. There is nothing better to replace this fat than flaxseed meal. Get the raw flaxseed ground. It contains 30 per cent of fat. Cook this into a jelly, and feed a calf a small amount of this at first with the skim milk, after which the quantity may be gradually increased. There is nothing else equal to flaxseed meal to take the place of the butter fat removed from milk for young calves.

BEST OR POOREST CORN FOR SILAGE.

One of the greatest advantages of the silo is its ability to make a very profitable feed out of a crop that would not amount to much if fed in the usual way. For this reason, silo owners are falling into the habit of putting their poorest crop in the silo. Where a farmer has corn that yields from thirty-five to fifty bushels to the acre, and another field that for some reason yields but fifteen to twenty-five bushels, he has found, if he has had a silo on his farm for any length of time, that it is more profitable to put the poorest corn in the silo and husk out the rest for the crib. This does not mean that silage made from the poorer corn is just as good as the silage would have been made from the better corn, but it does mean that the better corn does not make silage enough better to pay for using the best yielding corn of the farm for filling the silo.

The man who is skeptical about a silo being able to add to the feeding of a crop that is made into silage is inclined to the belief that silage is good only as the feed that is put into it is good. While it is true that the richer the fodder is in grain the richer will be the silage, we have seen it demonstrated times without number that a crop that produces very little grain makes a good feed when it comes out of the silo. It is, of course, an impossibility to claim that the silo adds to the feeding value of whatever crop is put into it, but it does preserve the feeding value of the crop so completely that it is worth fully as much when it comes out as when it goes in. With corn cut and put in the shock, it is quite different. While the feeding value may be the same to start with, that in the shock begins to lose value almost from the very day the shock is made, while that in the silo is preserved and does not grow less in value with age.

Even though the grain yield of a corn crop runs only from fifteen to twenty-five bushels to the acre, or even as low as ten to twelve bushels, there is still a great feeding value in the entire crop, putting fodder and grain together, if it is harvested at the time when the feeding value of both fodder and grain is the greatest. Always, before the days of the silo, the problem was to keep the feeding value in the crop, in other words, to preserve it. When the fall and winter season is dry, we have found that our shocked corn made much better feed. This was because it was preserved better, the weather not damaging the fodder as much as is usually the case. Now, with the silo, one is able to preserve all the feeding value that is in the crop at the time of harvesting, so, with even a light grain yield, there is still much value in the corn crop, probably more in a corn crop of light yield than in a crop of heavy yield than the difference in bushels to the acre would seem to indicate, a yield of twenty bushels to the acre, for instance, being worth more than half as much as a yield of forty bushels. This is because the feeding value of the fodder is very nearly the same in either case. For this reason, and more particularly for stock not on full feed, silo owners are finding it the best practice to put their poorest corn in the silo.

SOME CHARACTERISTICS OF HUMUS.

In his recent work on soil culture Dr. W. E. Taylor places a high value upon the function that humus performs in the soil. According to this author humus is as necessary to make the soil fertile as water is to make lime and sand into plaster. Without humus all soils would be as unproductive as pure sand, though the compound itself in its component parts is largely a mystery even to scientists.

Humus may be described as that portion of organic matter found in soil which is in a partially rotted condition. As it carries a percentage of nitrogen this element is supplied directly to plants during the process of decay while the production of organic acids in the same chemical change leads to the making of phosphorous and potash combinations which also feed the plant directly. Humus plays an important part in improving the physical condition of the soil by making it mellow and friable. It also assists in the absorption and the retention of moisture, prevents puddling, baking and cracking and renders light, sandy soils productive, while clay soils are made more tillable by its presence. The presence of humus in the soil affects the temperature of same in a manner that is always favorable to plant growth where there is satisfactory drainage.

The humus supply as it is added to soils from time to time must come from one of three sources. Either from the application of farm-yard manure, from the plowing under of crops or from the decay of roots in the soil. It is partly because of their large root development and their subsequent decay into humus products that gives such an important value to red clover and alfalfa as soil builders, though it must be remembered in this connection that these crops also add to the total supply of nitrogen in the soil by taking it from the air.

ARGUMENTS IN FAVOR OF LIVE STOCK FARMING.

In an address delivered before the National Association of Managers of Farmers' Co-operative Companies by Mr. J. J. Ferguson, of Chicago, the advantages of carrying on a system of live stock farming on the farms of the central West are pointed out in detail. Briefly these advantages, according to Mr. Ferguson, are:

1. The live stock farmer is not dependent upon one or more grain crops of uncertain yield and price. When he has fat cattle, sheep or hogs to sell he is sure an open market is waiting every working day in the year. His live stock is the same as cash in bank and almost everywhere can be realized upon inside of twenty-four hours. Live stock returns are not spasmodic when the business is properly handled. Further, if he is a specialty live stock farmer his crop is ready when the supply is light and price at the high point.

2. The man on the farm who sells off wheat, oats or corn is selling raw material on which a number of men will later make a manufacturer's profit. The producer of raw material is usually relatively the most badly paid man in the line.

3. Growing and fattening live stock permits the continuous economical employment of farm labor, which in a system of exclusive grain farming is needed only at special seasons when labor is scarce and prices consequently high.

4. Pasturing of live stock and rotation of crops needed to supply them with the necessary feeds is nature's own best prescription for clean farms, free from weeds.

5. This same system of crop rotation together with the growing and fattening of cattle, sheep and hogs permits in the highest degree conservation of natural soil fertility, which is the prime object of every good farmer.

6. In sections devoted exclusively to grain growing there is a time every year when farmers complain of shortage of cars, lack of elevator capacity and congestion of loaded cars at terminals. Everyone wants to ship grain at the same time and everyone cannot be accommodated. The daily movement of live stock to market means not only daily revenue for the farmers, but also prevents in the most sensible way railway congestion, enabling railroads to give all classes of shippers more regular and uniformly better service.

7. Live stock in the hands of the farmer furnishes him the best possible security to be offered his local banker. When a farmer wants a little money for permanent improvements on his land or any other legitimate purpose American bankers have found cattle paper absolutely safe and liquid in times of financial peace or panic.

If live stock farming is to become more popular on the farms of the corn belt an additional argument must be forthcoming in its favor, namely, that a larger profit can be realized from marketing grain and roughage through the medium of live stock than can result in the carrying out of any other policy. These profits must be apparent, directly as well as indirectly resulting from increased soil productiveness that is always associated wth live stock production. When live stock values reach that stable basis where sensible feeding methods will always result in a profit to the farmer, then and then only will the majority engage in the industry. It would seem as if the relation between population and the number of farm animals is such at the present time as to lead to the conclusion that it is a safe and sane business policy for men who are endowed with a natural live stock instinct to perfect their plans for pursuing a fixed policy in live stock raising to be continued for an indefinite period.

Mr. Ferguson's arguments are good, but they do not place enough emphasis on "immediate profits."

CHORES AND CHILDREN.

A Wisconsin subscriber calls our attention to the fact that the Oregon school-teacher who gives school credits for home chores has no monopoly on the idea. We are indeed glad to learn that the grain belt is abreast of the Pacific northwest in this important matter of bringing home and school closer together and adding the necessary zest or incentive in chore work around home and farm. The Wisconsin communication follows:

I noticed in your last issue an article entitled "School Credits for Chores," concerning work done at home by the school children of an Oregon school. This has been carried out in this state in several schools in Manitowoc co- -y this year under the supervision of our county superintendent and our state rural school inspector. The credits were counted by points, i. e., building a fire five points, milking a cow five points, gathering eggs three points, carrying wood five points, getting a meal ten points, baking bread fifteen points, etc., and prizes were given for the greatest number of points. In connection with this, individual milk records, including tests, were kept of a herd of cows for a certain length of time, and credits were given for picking stones off the roads in going to and from school. These are some of the practical things for the country school which bring the school and home in closer relationship.

More progress has been made in the last four years toward practicalizing country schools and bringing them closer to the farm home than ever before. A great future is opened up by the laws passed by the various legislatures compelling the teaching of agriculture and domestic science. With alert, progressive teachers rewarding pupils who do home work to help father and mother the country school bids fair to take still higher rank and become a still more potent factor in making country life not only more profitable, but more satisfying in every sense of the word.

GOOD ROADS SCHOOLS.

Former Senator Jonathan Bourne, of Oregon, in addition to the honor of being father of the parcel post, aspires to the position of sponsor of the nation-wide good roads crusade. He is not only advocating a billion-dollar road campaign, which includes every state and provides for thousands of miles of permanent highway, but he is now advocating the establishment of a national academy of highway and bridge engineering, to which students shall be sent from every state to learn the art of road and bridge building as they are now sent to the war and naval academies at West Point and Annapolis to learn the art of waging war. In a statement issued during the past week Senator Bourne says:

An eminent railroad builder has been quoted as saying that there are not ten men in the United States qualified to take charge of a large project for highway improvement. Whether this be strictly true or not certain it is that there is no adequate supply of men trained for this important work. The American people are about to enter upon extensive highway construction and it behooves them to see that competent men are ready to take charge of the work.

Establishment of a national academy of highway and bridge engineering is one feature of my plan for federal aid to good roads. As in the case of the military and naval academies, I would have students apportioned among the several states and admitted after competitive examination, each student to be paid enough to cover his necessary traveling and living expenses. Part of his instruction would be of a technical nature, in the academy, and part of it of a practical nature, in the field. I have in mind a two-year course for students who have already completed courses in civil engineering, chemistry, etc. Two hundred graduates each year from such an institution would supply the need for trained supervision for highway construction.

I do not believe state institutions can satisfactorily conduct the educational work in highway and bridge engineering. There is no sufficient supply of instructors. State institutions are not equipped with the necessary laboratory apparatus. Moreover, I believe that much is to be gained by bringing to one central point students who are making a specialty of this line of work, so that they will get a broad grasp of the subject, will form personal acquaintances, and build up an esprit de corps which will aid in establishing and maintaining high standards of efficiency.

The suggestion is in line with the work being carried on in the agricultural colleges of several of the grain-belt states which have added practical courses in road building. Whether the country is ready for the adoption of this work on so large a scale as Senator Bourne proposes is another matter, but he is advocating both this and the bond issuance for good roads on the large scale which enthusiastic evangelists usually adopt. Mr. Bourne is no longer a member of the United States Senate, but is using his influence and fortune to further the road campaign upon which, to so large an extent, the prosperity of the nation and the welfare of the individual depend.

NOT COMPLEX, AFTER ALL.

The United States Department of Agriculture has recently issued a bulletin on road dragging which would be hard to excel for simplicity. We cannot do better than to print the paragraph in regard to the making and using of a split-log drag:

To keep a road smooth and crowned the best method is to drag it with a road drag. A road drag is made easily with two halves of a log which has been split. The log should be about six or eight inches in thickness and about six or eight feet long. The two halves of the log are set three feet apart with the smooth faces forward and upright. They are fastened together with braces set in holes bored through the log. A pair of horses may be used to drag the road and are hitched to a chain fastened to the front half of the log. The road drag should move forward so that it slants across the road in such a way that a small amount of earth will slide past the smooth face of the log toward the center of the road, thus forming the crown. The edges of the logs will smooth out the ruts. The best way to drag is to begin at the side ditch and go up one side of the road, and then down the other. In the next trip the drag should be started a little nearer the center and the last trip over the road the drag may work close to the center itself. Small ridges of earth will be thrown in the horse track and smeared by the round side of the log smoothly over the road. The smearing of the earth by the drag is called "puddling" and it tends to make the surface of the road smooth and water tight after the sun comes out. The road is always dragged after it has rained and not when it is dry. A good, strong pair of horses with a well-built drag can drag about three or four miles of road in a day, and it is the best way to maintain good roads. In every county some farmer along each four miles of road should own a drag and drag the road when it rains. He would always find the road in good condition when he goes to market.

The entire bulletin is equally simple, but practical, going a long ways toward offsetting the all too general impression that the road problem is so complex that only an engineer can cope with it. The trouble with too many of these big problems that confront us is that we are preached to in words beyond our understanding, while the simple remedy lies close at hand, if we only knew it. Millions of gallons of printers' ink are used in spreading high-sounding road treatises abroad, but the fact remains that the road problem is largely a matter of waking up to possibilities and taking advantage of opportunities and local materials.

AMERICAN ROYAL SHOW.

The management of the American Royal Live Stock Show announces that that exposition will be held October 6th to 14th and that the location will be at the Union Stock Yards, as in the past. In addition to the four beef breeds of cattle shown, namely, Hereford, Short-horn, Angus and Galloway, prizes will be offered for Jersey display of these dairy cattle also. There will be the usual horse, mule sheep, swine and poultry departments. The attendance from the country at the American Royal has always been large and this year, on account of there being no other fall attraction at Kansas City, it is anticipated that the Royal will attract a larger country attendance than ever before.

The corn crop of the United States furnishes yearly 250,000,000 bushels to mills, 40,000,000 bushels for starch and glucose, 21,000,000 bushels for distilled liquors, 14,000,000 bushels for malt liquors, 120,000,000 bushels for town feed, 45,000,000 bushels for export, 728,000,000 bushels for mules and horses, 724,000,000 bushels for swine, 254,000,000 for meat and cattle, 231,000,000 bushels for dairy cattle, 97,000,000 bushels for poultry, 92,000,000 bushels for human food, 60,000,000 bushels for sheep, 23,000,000 bushels for seed and 131,000,000 bushels for miscellaneous uses.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

I note by newspapers that a dozen turkeys are the cause of a lawsuit where the costs are $300 exclusive of attorneys' fees and the end is yet to come. This looks foolish to the outsider, but no doubt those interested are having the time of their lives.

If the wagon wheels are to be treated with boiling linseed oil let the work be done before the tires become loose. If the tires are loose it is best to swell the felloes by soaking with water before boiling in oil. Boiling linseed oil will not swell the wood, but it will prevent shrinking.

Don't be bashful about letting it be known that you are "thinking of buying an automobile." Let the demonstrators demonstrate while you keep right on thinking. After you have bought there will be no more free rides and very little free instruction.

The first silo built in this vicinity was eighteen feet in diameter and twenty-four feet high. This summer one was built that is sixteen feet in diameter and fifty feet high. The first building is not considered a silo at the present time.

Don't forget to make that "creep" for the little pigs where they can get away from the older hogs and enjoy a square meal all by themselves. "Well begun is half done" comes pretty near being the truth in raising hogs for market.

What is more delightful than a cool, breezy day after a couple of weeks of hot, sultry weather?

A man will work all day in the hot sun and not mind it much, but to stand idle in the hot sun for an hour is torture. This should be remembered when we tie our horses to a post while we do our trading in town. Horses have feelings as well as persons.

One hundred head of cattle to each eighty-acre farm is the talk of the arm-chair farmer, and as far as cheap talk goes it sounds all right, but it is a safe bet that those who waste their time in this kind of talk never put in many years in actual "humping" on the farm.

The hum of the old horse-power threshing machine is a thing of the past and I, for one, am glad of it. The toot of the steam thresher is a step in advance.

A spring washer keeps nuts from turning off on jarring machinery, but where the jar is continuous a cotter pin is surest. Makers of farm machinery can profit from the study of automobile construction in this respect.

The power baler has about driven the horse-propelled baler out of business in these parts. The power baler does better work, the run is steady and continuous, and faster baling is done. However, for smaller jobs the self-feed horse balers fit the work nicely.

Advocates of hard pine tongues for farm machinery would have had a hard time convincing me that pine is better than good oak, the other day. A tongue snapped in two almost at a touch, and, of course, it took me two hours to patch up with another old tongue and get back to work again.

No doubt 75 per cent of farm machinery bought still stands out in the weather the year around. Paint soon fades and flakes off iron, then the exposed iron turns red with rust. I often wonder why makers of farm machinery do not use galvanizing on their tools instead of paint.

It doesn't pay to let pigs get stunted if it can possibly be helped. It takes more to "bring out" a stunted pig than is required to keep him from becoming stunted.

Every rain now saves the corn crop.

Owners of good beef calves are going to have a fight on hands to keep from selling them this fall. Buyers are already making offers that are higher than has ever been paid before for the common run of beef calves. I heard a man say, the other day, he would pay any man $25 each for good beef calves that had run through the summer with the cows. I can remember when $7 and $8 was considered a high price.

A set of good files come in handy on the farm. I find use for round, flat and three-cornered files.

Some of my neighbors have been investing in second-hand autos that were bought first hand at a high price rather than to pay the same money for a new, low-priced machine. Some secured bargains, while others had better bought new and been content with the small machine.

Now comes the man who says he will see ten-cent hogs before we will see them back to six cents again. Of course, as hog producers, we hope that prediction comes true, but if it should there is no hope ahead for the cheaper meat that city folks are wishing for.

A good grain shock takes little hurt if it does rain three or four times on it, but the shock that is thrown together, then perhaps blown apart by the wind, is damaged every time rain falls. Since grain stacking has become almost a lost art, better shocking should be the rule, for sometimes our grain must stand in the shock longer than we like waiting for the thresher.

The horse of twenty and thirty years ago had one job the horse of today knows nothing about, that of traveling around and around all day long hitched to the sweep of the horsepower that was a part of every threshing rig. Such work was killing on horses, and the driver of the power usually saw to it that the whip was cracked more often around other teams than those belonging with the rig. Threshing used to be hard on both man and beast.

ALFALFA FOR POULTRY YARDS.

Alfalfa is one of the best plants to furnish green food for chickens, but ordinarily it soon kills out if over pastured.

Alfalfa crowns that have been cut off and plowed under and that have taken root again, are much harder to kill out, as many have found by repeatedly grubbing out the same stool that has taken root the second time. Such crowns seem to put out shoots from each piece of root that is left in the ground, if the soil is in favorable condition.

Those who desire to establish alfalfa in their poultry yards can succeed in this way by plowing or spading under alfalfa crowns that have been freshly plowed out from some field near by. Early in the spring is the best time, while the crowns are still dormant. The crowns should be covered four to six inches deep, and the soil wet down and kept moist and the chickens kept off until the crowns have become established, which will be much sooner than by alfalfa seeding, and will stand much harder pasture.—[Philo K. Blinn, Colorado Experiment Station, Rocky Ford, Colorado.

Save all the wood ashes and apply them to the orchard. They supply potash, which is a necessary element of fertility. In addition to the plant food value of ashes they benefit the mechanical condition of the soil in making it mellow and friable.

BEST SHEEP RANCH IN ENTIRE WEST. WILL CUT 500 TONS HAY (MOSTLY ALFALFA) THIS YEAR. CAN EASILY BE INCREASED TO 2,000 TONS ANNUALLY.

For Sale—Montana Sheep Ranch
Pays $20,000 a Year

7,000 ACRES IN HEART OF RICHEST VALLEY IN MONTANA, AT A BARGAIN—EASY TERMS.

Farmers who are now tilling high-priced land in Iowa and find it difficult to make fair profits are offered a big money-making opportunity on this fine ranch. For ten years past this property has made $20,000.00 a year for its owner, every year.

The property is located in the famous Smith River Valley, only six miles from White Sulphur Springs, county seat of Meagher county, Montana, and adjoining National Forest Reserve. It is practically all fenced; has new 2-story, 9-room house and good outbuildings, and entire 7,000 acres well watered; has own ditches and water rights—no water rentals or maintenance expense. 5,000 acres of the 7,000 can be plowed with steam plow. Lease for 3,000 acres adjoining included in purchase, making total of 10,000 acres in the tract.

ENORMOUS INCREASE IN MONTANA FARM VALUES.

Montana has an ideal climate and is one of the most rapidly developing states in the Union. The last census period shows increase in number of farms 94 per cent; increase in improved acreage 110 per cent; average value of farm land $16.75 per acre—AN INCREASE OF 205 PER CENT IN TEN YEARS.

The manufacturing interests also show rapid growth; 78 per cent increase in number of establishments during five years ending 1909, with increase of 28 per cent in wages paid and of 20 per cent in value of products.

TRANSPORTATION FACILITIES ARE GOOD IN MONTANA; LIVING CONDITIONS THE VERY BEST.

LOW PRICE—WILL PAY FOR ITSELF IN SIX YEARS.

This fine property can be bought for the very low price of $14.00 per acre, because the owner has two other ranches in the state which demand his attention. Only 15 per cent cash, balance on easy terms. Stock raising is easy in Montana. Any good stockman or farmer can **make this property pay for itself in six years.** Here's a rare chance for a lifetime competence. Better than government bonds, as an investment. Don't waste your time and energy on $200-an-acre land. Write at once for full particulars.

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CURRENT EVENTS

DEMOCRATIC victory on the tariff, so far as congress is concerned, seems to be assured, as a result of forty-nine democratic senators pledging themselves to stand by the Underwood-Simmons tariff revision bill as a party measure. Every democratic senator (with the exception of the two members from Louisiana, who are opposing the bill because of its provision for free sugar within the next three years) pledged his vote, thus giving the party a majority of one, with the controlling vote of Vice-President Marshall available if necessary. A few days before this party pledge was taken Senator Hitchcock, of Nebraska, had withdrawn from the caucus, because of the party's refusal to accept his tobacco amendment. Senator Hitchcock announces, however, that he will support the measure, putting aside minor personal objections for the sake of party unity. Congress has already devoted three months to the consideration of tariff revision and at least another month must elapse before the bill can go to President Wilson for his signature. One of the last acts of the senatorial finance committee was to set the date when raw wool would be admitted free as December 1, 1913, and the date when the rates on the manufactures of wool would take effect as January 1, 1914. The bill has been amended in the senate committee so as to carry a schedule of rates even lower than those provided in the original bill introduced in the house by Mr. Underwood. When the bill comes up for general discussion on the floor of the senate, Smoot, of Utah, and La Follette, of Wisconsin, will introduce various amendments. The democratic poll would indicate, however, that the bill would be put through as finally decided upon in party caucus.

UNWISE and extravagant investments led to the closing of the second largest bank of Pittsburgh, last week, involving two smaller banks and several mercantile establishments. The chief stockholders of the bank are largely interested in water power and reclamation projects throughout the country, particularly in the West, and have extensive Carey Act land holdings in Idaho. These investments, together with the erection of a large and costly office building in Pittsburgh, exhausted the bank's resources and caused the government officials to step in and order the bank closed. Following upon the receivership proceedings against the Frisco railroad, there might be an idea in some quarters that the country was facing another near-panic such as was experienced six years ago. The fact is, however, that business conditions in general are quite good and are promising even better for the future. The country is prepared for the revision of the tariff which is promised, and the administration's currency bill, while opposed by many of the leading bankers, is relied upon to prevent a financial stringency and a recurrence of the 1907 crisis. The outlook for a bumper crop next fall and for a general quickening of business, along all lines, is excellent. The Frisco receivership and the Pittsburgh bank failure seem to have been the result of personal management (mismanagement, it is alleged in some quarters) rather than of general business conditions, and this will occur in even the most prosperous times.

THE long anticipated war between the Balkan allies is in progress, with reports already coming in of battles far more fiercely contested and with far greater loss than any which occurred when the allies were fighting the common enemy, the Turk. So far the Bulgarians appear to have the better of the conflict, having defeated the Servians with immense loss, although retreating before the Greeks. Refugees from the front declare that the battles are almost inhuman in their ferocity, the men throwing away their firearms and using their bayonets as daggers. With the Balkan allies thus at each other's throats, the Turk is preparing to take the field again, and, by taking advantage of the falling out among the allies, regain as much of his lost territory as possible. The big European powers have not as yet threatened any intervention, although it is almost inevitable that the struggle, if prolonged, will involve the larger nations so that a sanguinary war of long standing and great loss of life and money can hardly be prevented. The Balkan peninsula has long been the source of serious trouble to the big powers, each of the nations being jealous of the other and desirous of securing not only as much territory as possible, but the most desirable seaports.

EXPERT investigation of packing house conditions is to be made by three college professors selected by Secretary Houston, of the department of agriculture, last week. Dr. W. T. Sedgwick, professor of bacteriology and sanitary engineering in the Massachusetts Institute of Technology, is to investigate plants at Boston, Worcester and Brightwood, Mass., and New Haven, Conn.; Dr. V. A. Moore, professor of pathology of Cornell University, will go to Philadelphia, New York, Buffalo and Pittsburgh, and J. A. Conway, of the Missouri Agricultural College, to Kansas City, St. Louis and St. Joseph, Mo., and National Stock Yards, Illinois. "It is my desire," said the secretary in his address to experts, "that you report to me fully and frankly the conditions as you find them at the various packing establishments together with such recommendations looking to the improvement of the service as in your judgment may seem best." This investigation will supplement the work of the regular government inspectors, whose work has been criticised in some quarters. The result of the examination will be made public and will set at rest the rumors all too current in the country as to packing house conditions generally.

Coral Builders and the Bell System

In the depths of tropical seas the coral polyps are at work. They are nourished by the ocean, and they grow and multiply because they cannot help it.

Finally a coral island emerges from the ocean. It collects sand and seeds, until it becomes a fit home for birds, beasts and men.

In the same way the telephone system has grown, gradually at first, but steadily and irresistibly. It could not stop growing. To stop would mean disaster.

The Bell System, starting with a few scattered exchanges, was carried forward by an increasing public demand.

Each new connection disclosed a need for other new connections, and millions of dollars had to be poured into the business to provide the 7,500,000 telephones now connected.

And the end is not yet, for the growth of the Bell System is still irresistible, because the needs of the people will not be satisfied except by universal communication. The system is large because the country is large.

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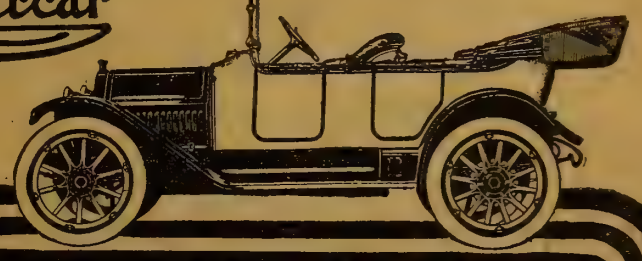

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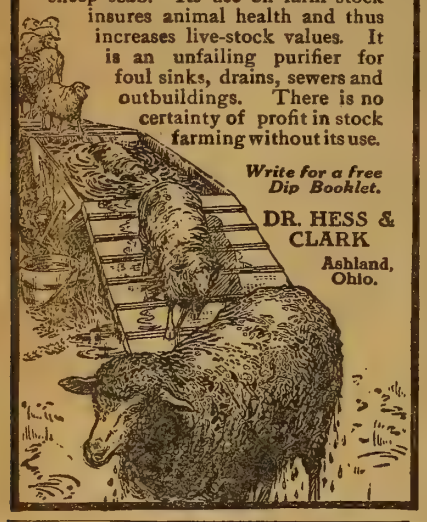

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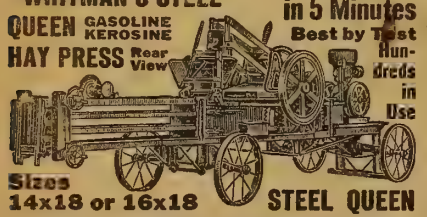

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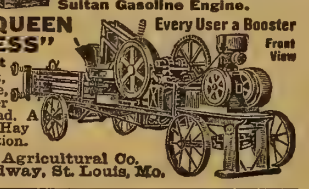

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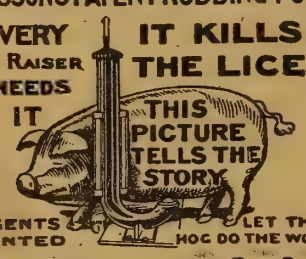

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

CANKER.

Last year my pigs had sores in and around their mouths which finally became lumps and seemed to be hard. I lost several with it, only one getting well that had it. Now I have some three-weeks-old pigs that are taking the same disease. All that are affected look poor and scrawny.

The disease is due to the bacillus necrophorus, a filth germ found in manure and in dirty stables. It is contagious. Clean up, disinfect and whitewash the stables, floors and all. Then see that clean, fresh bedding is used at all times. When pigs are born wash their heads and faces with a 1 per cent solution of coal tar disinfectant once daily for at least a week. Treat the disease as follows: Paint lumps daily with tincture of iodine after splitting open with a sharp knife and evacuating pus. Scrape each ulcer clean and lightly rub with a lunar caustic pencil; then swab all sores with a 2 per cent solution of permanganate of potash once or twice daily until healed.

LONG MILKING PERIOD.

Since my cow was put in the pasture the milk will separate when it is mixed with hot coffee, etc. She seems to be in good health and her teats are all good. She has been fed bran, sal-vet and tame hay mixed with some wild hay. The last time she had a calf was April 2, 1912, and she does not seem to be with calf now. Is the milk fit to use?

Such troubles are common where a cow has been giving milk for an extended period. Dry her off, as the milk is now unfit for use.

LAMENESS.

I have a five-year-old bay gelding weighing 850 pounds. He runs in the pasture during the day and is fed corn and clover hay twice a day in the barn. About two weeks ago I noticed him being very lame in the right shoulder. Now he is lame in both shoulders, though I can find no swelling. When he tries to trot he spreads his legs apart. Is in good flesh and all right other ways. Have given no treatment.

We must repeat that it is quite impossible for us to decide a case of mysterious lameness without making a personal examination, and even then it is often a difficult matter to locate the seat and cause of the trouble. It seems likely that the horse has been foundered and that the feet are the seat of the lameness. If so, we would clip the hair from the coronets of both fore feet and blister them several times, one at a time, with cerate of cantharides applied at intervals of two or three weeks. It would be best to have an examination made by a local graduate veterinarian.

SWOLLEN GLANDS.

We have a family horse about twenty years old. A few months ago we noticed two lumps about the size of a goose egg under his throat which seem to come and go from time to time and are quite hard. They do not seem to pain or inconvenience the horse, but we fear developments.

The glands swell and it is likely that irregularities of the teeth of the old horse are the cause. Have the teeth attended to by a veterinarian.

PANTING.

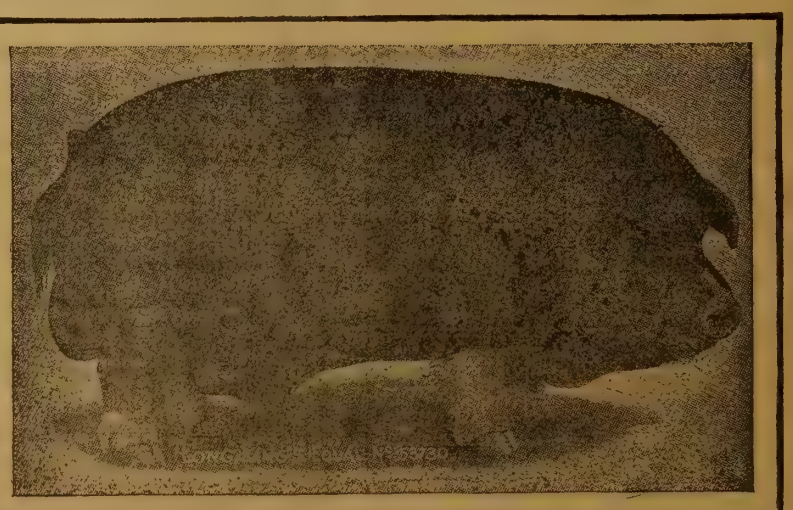
Have a four-year-old roan gelding that pants when doing the lightest kind of work. He has not been overheated that I know of. I feed him oats, corn and timothy hay.

Overheating is the usual cause of this condition and it is incurable in a majority of instances. Have the horse clipped and work him in the cool of the morning and afternoon. Do not feed any bulky feed at noon and do not work him soon after a meal. Omit corn from the ration in summer. Allow drinking water often when at work.

INDIGESTION.

A large four-year-old horse is troubled with his kidneys. He seems to be all right when not at work, but when we use him he takes sick on the road. We are feeding him good oats and Kansas upland hay. Were also feeding him alfalfa hay until about six weeks ago. Do you think that alfalfa hay would work on the kidneys? His appetite is good, but he seems sluggish on his feet. Have been giving him some rosin and black draft.

Alfalfa hay tends to stimulate the kidneys too much and especially so if moldy. Rosin and black draft should not be given. Have the horse's teeth attended to by a veterinarian. Allow free access to rock salt. In the feed of oats and wheat bran mix twice daily for ten days a tablespoonful of a mixture of equal parts of powdered gentian root, saltpeter, nux vomica, dried sulphate of iron and fenugreek; then skip ten days and repeat the medicine if needed.



The above is a likeness of that celebrated large-type Poland China boar, Long King's Equal (weight 1,000 pounds), at the head of the John B. Lawson herd at Clarinda, Iowa. He is one of the greatest Poland China boars living. Mr. Lawson is offering some splendid boar pig bargains by him on page 22.

Write Quick & Cut Out Shoveling in Hot Harvest!

EVERY blessed farmer who buys his Sandwich Elevator **before** harvest gets **double work out of it!** This summer, it will store his **small grain**—then crib his **corn** next fall. You, too, can get **double** value—you, too, can cut out the senseless slavery of shoveling load after load till you drop.

"The Sandwich Farm Elevator is the best investment I ever made in hard labor-saving machinery," writes Herman Frey, Melvin, Ia.—one of an army who say the same.

Sandwich (Eternal Cypress) Farm Elevator

Solves the **hired-man** problem and even lightens the **house-hold** work by cutting out the **keep**—the **expense**—of extra men. And it pays you a profit too!

"Had my crop picked 1c a bu. less on account of my elevator," says C. H. Keller, Marshall, Minn.

50 Bushels in 3 to 4 minutes

The Sandwich fills your bins—your cribs—**chuck to the top** lickety split! "Unloaded 50 bu. corn in 4 minutes," writes I. E. Orendorf, Heyworth, Ill. Others crib 40 bu. in 2½ minutes with the Sandwich.

No Leg-Breaking Platform

The Sandwich wagon-jack is **overhead.** "Works to perfection," says A. J. Anderson, Boone, Ia. You drive right under—with even (9) the **tallest** load. And it dumps it in the hopper in a jiffy. Then hitch on any power—horse or engine—and it's off with a flying start.

Cypress Body Outlasts Steel!

We make less money using "the wood eternal" but we make more **friends** and more **sales.** This is why it is called the **Everlasting** Sandwich and is fast crowding other elevators from the market.

Write Right Now for FREE Book

Last season we got **late** orders for 60 **carloads** we could not supply. These were from farmers who **waited.** They had to shovel. But they couldn't blame us. We warned **them** as we are **warning you now!** Our Elevator Book comes **free** by return mail the minute your request arrives; also the name of a Sandwich dealer close by. Address today 170 B St.

SANDWICH MANUFACTURING CO., SANDWICH, ILL.

ST. JOSEPH VETERINARY COLLEGE

RECOGNIZED by the U. S. Dept. of Agriculture. Positions open to graduates, state and county veterinarians, U. S. Vet. inspectors, U. S. army veterinarians, teachers in veterinary and agricultural colleges. Private practice unlimited. Veterinary inspector's salary, $1,400 per year, over 3,000 clinical cases during the past term. Address F. W. Caldwell, Pres., 8th St., St. Joseph, Missouri.

Free Use 30 Days

SEE for yourself how smoothly this *roller-bearing* Crop Maker Fanning Mill runs, day in and day out. Put it to work at *any* fanning mill or grading machine job—see how it automatically cleans, separates and grades any grains or grass seed and then, if you don't say it is a great service and money-making machine, ship it back at our expense. The

Crop Maker Roller Bearing Fanning Mill

runs "like oil." It's *easy* to turn, it turns *evenly*, and this means that it does perfect work all the time.

It doesn't pay to plant dirty, ungraded seed when you can have clean, perfect seed by using this light-running mill. If you are satisfied after the 30-day free trial, we will sell you this mill at

Direct Factory Price

You save retailer's and jobber's profit, merely paying actual cost of making plus a small factory profit. And the factory stands right behind you all the time. Try this great Crop Maker before you buy. Your use of it puts you under no obligation. We have a Free Book for you, giving complete description, price, etc. Please write for it now—today—and get our offer in detail.

St. Paul Fanning Mill Company
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The Rat-Proof, Rain-Proof Bin

Protects grain from fire, water and vermin—saves insurance—keeps grain in perfect condition. You can hold grain for better prices, without fearing it will be damaged when you store it in a

BUSHNELL Galvanized **Steel Grain Bin**

This *portable* bin means *more economical handling* of grain. Costs no more than wood—is everlasting—can't rust or break. A *permanent money-maker.*

Write now for descriptive booklet.

Bushnell Tank Works, 700 Dean St. Bushnell, Ill.

Only engine of its kind

Will do *more* work—do work in *more* different places—give *60 changes* of speed.

GILSON *Goes Like Sixty*

Delivers 100% service. Farmer's power house on wheels. Carries its own line shaft, pulleys, belt tightener and pump jack. Ready for any job, anywhere, at any time. 1 to 27 h.p. Sells from $32.50 up. Write for particulars.

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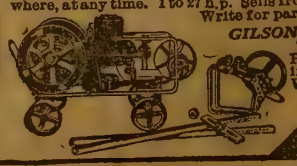

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CORN CRIBS
(SECTIONAL)

MILLER SECTIONAL CORN CRIBS

Made of No. 1 Yellow Pine. A better and stronger Crib than a carpenter would build. Bolt together yourself in few hours.

AT JUST ABOUT THE PRICE OF LUMBER.

The Miller Sectional Crib costs you no more than the bare lumber. It is built in sections four feet long by eight feet wide and ten feet high, with tongue and groove floor and box car roof.

You can have any size Crib you want. Painted both sides. Bolts and braces furnished. A wrench is the only tool neeeed to set up. Take down and move at will.

Send for Full Description, Price Lists, Etc.

The Miller Manufacturing Co.,

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Largest Manufacturers in the World of Sectional Corn Cribs, Hog and Hen Houses, Sectional Ice Houses, Sectional Cold-Storage Buildings and Rooms for Perishable Products. Refrigerators for Every Purpose.

References, Southern Commercial Bank, St. Louis, and Iowa Homestead, Des Moines, Iowa.

Easy to Run

Simple to Set Up

A 10 year old boy could set up a Blizzard Ensilage Cutter. Comes in three pieces. Can't be put together wrong. Self feed table. Almost runs itself. Big capacity with small power. The

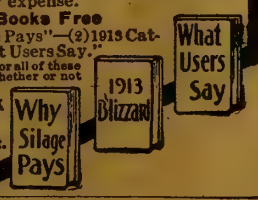
BLIZZARD
Ensilage Cutter

elevates to any height in any direction. Rigidly guaranteed. Lasts many years without repair expense.

These Books Free

(1) "Why Silage Pays"—(2) 1913 Catalog—(3) "What Users Say." Write today for any or all of these books mentioning whether or not you have silo.

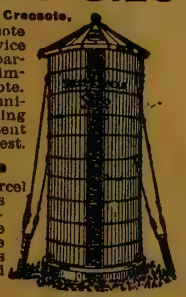
The Jos. Dick Mfg. Co.
1472 Tuscarawas St.
Canton, Ohio



DES MOINES SILO

Run Through a Vat of Boiling Creosote.

The heat forces the creosote into every check and crevice of the stave, covering every particle of the surface with an impervious coating of creosote. Rotting is impossible; it eliminates a large part of the swelling and shrinking and our patent spring hoop lug does the rest.



Write for Sample Stave

We will send you by parcel post a sample of the Des Moines creosoted stave showing the penetration of the creosote and our book—"The Story of the Des Moines Silo." Which explains and illustrates its many features.

DES MOINES SILO & MFG. CO.,
507 New York Ave., Des Moines, Iowa.

Champion Silos For Big Profits

That's what farmers make who own Champion silos because the silo is perfect in construction. It's ahead of others in improvements and is sold at factory prices on our special proposition.

Valuable Information Free.

Get it before you buy. Find out what other farmers are doing. Get proof that Champion silos are bigger value for the money than any other.

WESTERN SILO CO.
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Kalamazoo Silos

Easily made, easily erected. Molded from cement with an inexpensive mold right on your farm by any farm hand. Makes a silo like rock, frost and fire proof, positively air-tight. We also sell guaranteed tile silos all ready to put together. Either silo big money saver. Write for booklet and special offer.

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FIRE PROOF FROST PROOF LAST FOR AGES

Stud Anchor. For barns, corn cribs, garages, using **concrete** wall, pier or floor. No sills needed, nothing to rot. Studs bolted to foundation.

Stud Anchor Works Mendota, Ill.

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ECONOMY STEEL SILO ROOF

No silo is complete without it. For Round Silos—wood, cement, hollow tile, brick or concrete. 26 gauge steel. Easy to put on. Rust and Lightning Proof.

DES MOINES SILO & MFG. CO., 540 NEW YORK AVE., DES MOINES, IOWA.

SAVING OUR GREATEST CROP.

(Continued from page 3.)

to the talk that drifted in, in snatches, of prizes won on hogs and horses, sheep and cattle and poultry," says the originator of the whole affair, "the same talk I had been hearing at every fair for ten years. Suddenly I became conscious of how often I had heard this talk about the wonderful improvement that had been made in the conditions of live stock in that length of time. Just at this minute, a woman with a fretful baby in her arms stopped near me to rest. A child of three clung to the mother's skirt with one hand and with the other fed herself a large, underripe banana. Three more brothers and sisters, old enough to care for themselves a little, clambered about, in imminent peril of broken necks and trampled toes. One might label the picture, I thought, an average American family on a holiday. As I looked at these children I saw myself and brothers and sisters forty years ago, no better, no worse. Measles, whooping cough and mumps would be a part of those children's upbringing, just as they had been of mine. If they lived through these necessary evils, without too great depletion of vitality, and if dread disease did not take them off, they might grow to manhood and womanhood. Then I began to calculate that this family would make five new families of the same kind, possibly with less endurance.

"A friend of mine interrupted the trend of my thought to invite me to go to the stock barns with her, where the premiums had just been awarded. The man in charge of the horse barns showed his beautiful animals, sleek and shining, with glowing pride. Blue ribbons and red ribbons showed bravely on many headsta ls. Every animal in the clean, well-ordered cattle and hog pens had been fed and groomed with the utmost care. A man pointed with pride to a pen of hogs and told us that they had been watched almost night and day; the water they drank had been analyzed, their food measured and weighed, and only the kinds given them that would bring certain results. It was then that the idea of a babies' health contest for our next state fair was born."

From such a little beginning has come the series of babies' health contests held during the past two years in a score of county and district fairs, in at least three state fairs, and now planned for a dozen state fairs in 1913, with a grand international contest in the Panama exposition, at San Francisco, in 1915. The little gray lady, the originator of the whole idea, Mrs. Mary T. Watts, of Audubon, Iowa, gives a list of the contests already held, as follows:

Iowa State Fair, 1911, fifty entries; 1912, 275.
Missouri State Fair, 1912, 200 entries.
Oregon State Fair, 1912, 200 entries.
Milwaukee Household Exhibit, 1912, eighty entries.
Fargo, N. D., Neighborhood Clubs, 1912, 150 entries.
Farmers' Week, Columbia, Mo., fifty entries.
Omaha, Made-in-Nebraska Show, 1913, 200 entries.
National Western Live Stock Show, Denver, 1913, 200 entries.

In addition to these, contests were held in county and district fairs, in 1912, in a score of Iowa towns, notably Ames, Audubon, Avoca, Algona, Brooklyn, Farmington, Marshalltown, Moravia and Sutherland.

State-wide contests are already scheduled for 1913 in Iowa, Oregon and Missouri (at the state fairs), with possibilities of Ohio, Massachusetts, Vermont and Michigan. Oregon has made appropriation for a Child's Welfare building and Denver proposes making more of a feature of the babies' health contest next January than it did this year, although the enthusiasm was so great at the last contest that a National Eugenics Society was organized at the live stock show, Mrs. Watts (the little gray lady) being elected president, Mrs. Mary Elizabeth Bates, of Denver, vice-president, and O. M. Plummer, of Portland, Oregon, secretary.

The manner of conducting the babies' health contests is interesting in the extreme and never fails to attract large numbers of applauding spectators. The entries are divided into classes, according to sex, age and residence, prizes being awarded for the most perfect entries in one-year-old, two-year-old and three-year-old classes, both from towns and country. The babies are subjected to tests, both physical and mental, by medical experts and trained nurses, who handle their little charges deftly so as not to unduly frighten them, but to observe them as nearly normal as possible. Stripped of their clothes the tots are measured, weighed and examined for physical defects; throat specialists examine for evidences of enlarged tonsils or adenoids; calipers are deftly swung around heads a-bloom with brown or golden tresses, in order

(Continued on page 16.)

JOHN DEERE
THE SAGLESS ELEVATOR

Your First Chance to Get a Sagless Steel Elevator

John Deere—The Sagless Elevator, is the first portable elevator to have turnbuckles on the truss rods so that you can keep the elevator from sagging.

You know how the power required increases when an elevator once starts to sag. Likewise, you know what a strain sagging throws on the whole elevator, especially the bearings in the head and boot sections.

The John Deere, for the sagless feature alone—even if it didn't have all those other things of advantage—is worth your careful consideration.

The Sagless Feature

Four turnbuckles on the truss rods, together with extra strong section connections make the John Deere a really sagless elevator. Sections are triple-lapped, connected with fourteen bolts, banded with a heavy iron band and reinforced at the upper edge on the inside. That is one big advantage in having a John Deere—The Sagless Elevator.

Screen Section

John Deere—The Sagless Elevator, separates and takes the shelled corn out when elevating ear corn. A screen, in the second section (that can be closed up when elevating shelled corn or small grain) does the work. Shelled corn that gets into the crib with ear corn fills up the air spaces and very often causes the corn to heat or mold.

What Else You Get

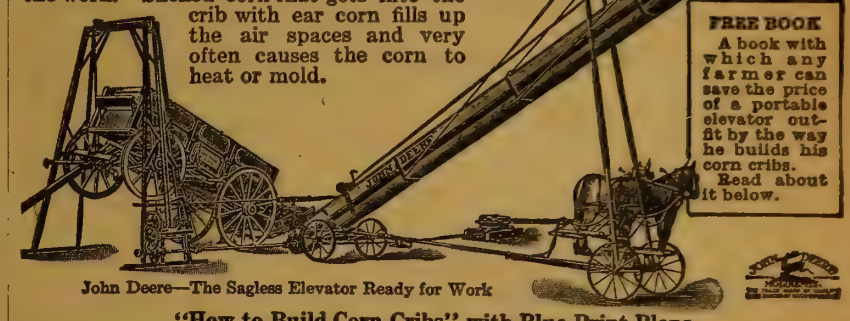
ALL STEEL—There is nothing about a John Deere—The Sagless Elevator to rot, dry out, or warp. It is made entirely of steel.

ROLLER BEARINGS on the head and boot shaft reduce the power required. They eliminate friction, thereby lengthening the life of the bearings.

HORSE OR ENGINE POWER. John Deere—The Sagless Elevator is furnished either with or without horse or engine power. A variable speed jack or belt attachment is furnished when desired to operate with engine.

MANY OTHER desirable features on John Deere Elevators are fully illustrated and discussed in the John Deere—The Sagless Elevator book. (This book also illustrates and describes the John Deere Cypress Wood Elevator and the John Deere Tubular Elevator for small grain—the only one of its kind.)

FREE BOOK
A book with which any farmer can save the price of a portable elevator outfit by the way he builds his corn cribs. Read about it below.



John Deere—The Sagless Elevator Ready for Work

"How to Build Corn Cribs" with Blue Print Plans

Besides containing complete descriptions of the John Deere—The Sagless Elevators, this book has ten blue print plans covering the construction of corn cribs and granaries, showing the style of elevator used with each crib. It also contains cost estimates and furnishes a source of valuable information whereby anyone can arrive at the comparative cost of the various styles of cribs and granaries. You can get it free if you will ask for book No. A 27

John Deere Plow Co., Moline, Illinois

Ertel's Cyclone—3-Stroke Self-Feed Hay Press Bales with least labor

WILL BALE 20 TONS OR MORE A DAY AT COST OF ONLY 40c A TON.

Make big money baling for your neighbors after yours is done.

The Cyclone is powerful, durable, repair-proof—made almost entirely of finest steel. Unbreakable steel baling chamber, adjustable tension, makes smooth, clean, tight bales, 75 to 125 lbs. as desired. Three strokes each circle. Self-feed. Works at stack, barn or windrow.

Here's the biggest money maker you can buy. Low price. Free trial and absolute guarantee on every press. Write today—full information free.

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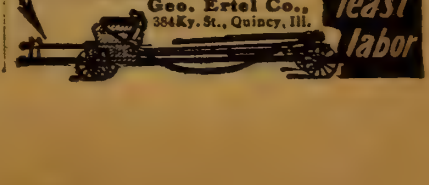

Save 40% to 60% on a Clear Fir Silo

Buy direct from us a Seattle Silo of famous Puget Sound fir—made of timber cut from our forests, worked in one of our six great mills. Sold to you at one profit above manufacturing cost.

Seattle Silos

are made of the finest fir in the land. Many trees grow 200 to 250 feet tall. For our silo staves we use only the choicest. Close and straight grain. Free from sap and knots. Wonderfully durable. Seattle Silos have *patented swinging doors*—quick detachable; no lifting; easily swing in or out; new iron cross-bar or hoop connection; door bars form ladder from which hoops are easily tightened.

Write today for folder. On a single silo we can probably arrange to give you practically carload shipment price. To one farmer in each township we have a very special offer. Write today.

SAVE 40% to 60% on Lumber and Millwork

You pay five middlemen's profits on lumber you buy of your local dealer. We sell you at *one* profit above *producing* cost. Give you choice timber as grows only in the Puget Sound region—give you the benefit of our wonderfully low cost of production. Our six great mills turn out twenty to thirty carloads of materials each day. All orders shipped within 24 to 48 hours. Reach our customers within average of two weeks. *Satisfaction guaranteed or money refunded.* Send for price list and catalog. Send bill of materials, if possible, for estimate.

HEWITT-LEA-FUNCK CO.
480 Union Ave., SEATTLE, WASH.

Cow-Ease

Prevents Ticks.
KEEPS FLIES OFF
Cattle and Horses

and allows cows to feed in peace, making More Milk and More Money for you. A clean, harmless liquid preparation, applied with a sprayer. Keeps cows in good condition, and saves five times its cost in extra milk.

TRIAL OFFER

If your dealer cannot supply you, send us his name and $1.25, and we will deliver prepaid to your address a half-gallon can of COW-EASE and SPRAYER for applying. For West of Missouri River and for Canada, above Trial Offer, $1.50.
Satisfaction or Money Back.
CARPENTER-MORTON CO.
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FOR
Floors, Furniture and Interior Woodwork
USE
Campbell's Varnish Stain
All sizes and colors, at Paint & Hardware Dealers
Carpenter-Morton Co., Boston, Mass.

Kalamazoo
CENTER-SHEAR ENSILAGE CUTTERS

Only cutters made that effect a positive shear-cut entire width of bundle, from sides to center of throat. This keeps bundles in middle of throat, greatly decreases friction, and increases cutting power and capacity. Fully *guaranteed*. Catalog explains this wonderful feature and our full line. Send for it now. Address Department 79

KALAMAZOO TANK & SILO CO.
KALAMAZOO, MICH.

BRANCHES:
Minneapolis, Minn.
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BEATRICE Cream Separator
High grade, low priced.
See a Beatrice dealer.
BEATRICE CREAMERY CO.
Chicago, Lincoln, Neb.
Des Moines, Ia.
Dubuque, Ia.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE BUTTER, CHEESE AND MILK INDUSTRY.

Statistics in detail of the butter, cheese, and condensed milk industry in the United States for the year 1909, are presented in a bulletin soon to be issued by Director Harris, of the bureau of the census, department of commerce. It was prepared under the supervision of W. M. Steuart, chief statistician for manufactures.

Of the 8,479 establishments engaged in the industry in the United States in 1909, 56.4 per cent reported butter as their product of chief value, 42 per cent cheese, and 1.6 per cent condensed milk. Of the total value of products shown for the combined industry the butter factories contributed $194,999,198, or 71 per cent; the cheese factories $44,263,177, or 16.1 per cent; and the condensed milk factories $35,295,343, or 12.9 per cent.

In this industry the cost of materials constitutes a very large proportion of the total value of products, the process of manufacture being relatively simple and inexpensive. The cost of the materials used in 1909 was $235,546,064, forming 85.8 per cent of the value of products, while the value added by manufacture (that is, the value of products less the cost of materials) was only $39,011,654. The factories of the industry gave employment to an average of 31,506 persons during 1909, and paid out in salaries and wages a total of $14,671,932. Of the persons engaged in the industry, 18,431 were wage earners, 5,056 were salaried employees, and 8,019 were proprietors and firm members.

The average number of persons engaged in the industry in 1909 was 31,506, of whom 19,380 were reported by the butter factories, 7,164 by the cheese factories, and 4,962 by the condensed milk factories. Of the total number of persons engaged in the combined industry, 18,431, or 58.5 per cent, were wage earners; 10,480, or 33.3 per cent, were proprietors and officials; and 2,595, or 8.2 per cent, were clerks and other subordinate salaried employees. Of the total number, 29,095, or 92.3 per cent, were males, and 2,411, or 7.7 per cent, females.

The average number of female wage earners in 1909 was 1,420, of whom 987, or 69.5 per cent, were in the condensed milk factories. Females formed 23.7 per cent of the total number of wage earners in this branch of the industry, as compared with 3.2 per cent in the butter factories and 2.2 per cent in the cheese factories.

In 1909 the combined production of butter in the factories of the butter, cheese, and condensed milk industry and on farms, in the United States, amounted to 1,619,415,263 pounds, an increase of 127,662,661 pounds or 8.6 per cent over the production in 1899. During the decade the output of the factories increased 204,638,107 pounds, or 48.7 per cent, and the production on farms decreased 76,975,446 pounds, or 7.2 per cent. At both censuses the production of butter on farms greatly exceeded the factory output, but the proportion which it formed of the combined total decreased from 71.8 per cent in 1899 to 61.4 per cent in 1909.

The quantity of cheese produced in the United States in the factories of the industry and on farms during 1909 amounted to 320,532,181 pounds, an increase of 22,187,539 pounds, or 7.4 per cent, over the production in 1899. The production in the factories engaged in the industry increased 29,153,993 pounds, or 10.3 per cent, between 1899 and 1909, and the production on farms decreased 6,966,454 pounds, or 42.6 per cent. At both censuses the quantity made in factories was many times greater than the quantity made on farms, and the proportion which it formed of the combined total increased from 94.5 per cent in 1899 to 97.1 per cent in 1909.

In 1909 Wisconsin was the most important state in the combined industry as measured by value of products, having displaced New York, which had previously ranked first. In average number of wage earners and value added by manufacture, however, New York still held first place in 1909 and Wisconsin ranked second, but the per-

The Concrete Milk House Is Clean and Sanitary

You cannot keep your milk fresh and sweet in an unsanitary milk house. Wooden floors and walls become milk soaked; decaying wood construction is a breeding place for germs. Many health officials require concrete floors in all milk houses. Build your milk house of concrete and use

UNIVERSAL PORTLAND CEMENT

Such a structure has no cracks or crevices to collect dirt. It is cool in hot weather; warm in cold weather. A concrete milk house is not difficult to construct, and when completed requires no painting or repairs. Universal Portland Cement is of uniform high quality—sound and durable.

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CHICAGO, 72 West Adams Street
PITTSBURGH, Frick Building
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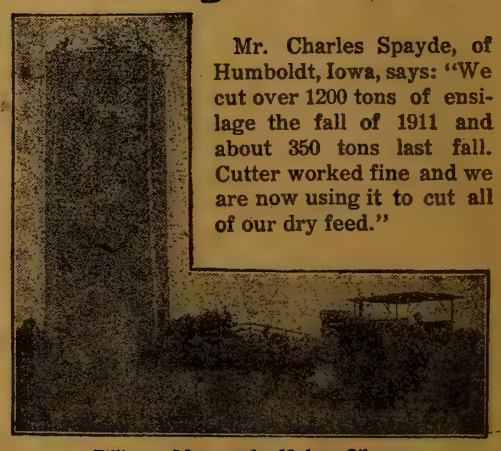
Plants at Chicago and Pittsburgh. Annual Output 12,000,000 Barrels

See the Smalley Cutter In Action!

If you want to see a real *show*, just watch this Powerful Smalley "cut up." See it take fodder by the ton and cut it into small, fine pieces, shoot it into a giant silo 60 feet high. Some *improvement* over the old slat-apron Cutter that requires an army of workmen to feed it, and balks when it comes to filling a *tall* silo.

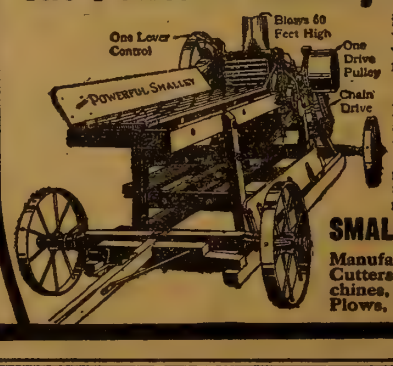
Four-fifths of all Silos are now filled by Smalley machines.



Mr. Charles Spayde, of Humboldt, Iowa, says: "We cut over 1200 tons of ensilage the fall of 1911 and about 350 tons last fall. Cutter worked fine and we are now using it to cut all of our dry feed."

Filling a Mammoth, 60-foot Silo on George Crow's Farm, near Hutchinson, Kas.

The Powerful Smalley Force-Feed Silage Cutter



is a regular "hawg" for work. Makes no difference whether you have green or dry ensilage—or whether it's corn, oats, peas or alfalfa. Now furnished with Alfalfa Grinding Screen if wanted (for making alfalfa meal).

Only one drive pulley on Blower outfits. No Idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

Get a post card quick and send for Smalley's new big illustrated Catalog. Finest Silage Cutter Book ever printed, yet absolutely free. Write now for it.

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Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters. Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Plows, Cob Grinders and Feed Mills. (71)

Shoo-Fly THE ANIMALS' FRIEND

Keeps flies and other insect pests off of animals—in barn or pasture—longer than any imitation. Used and endorsed since 1885 by leading dairymen and farmers.

$1 WORTH SAVES $20.00 in milk and flesh on each cow in a single season. Heals sores, stops itching and prevents infection. Nothing better for galls. Kills lice and mites in poultry houses.

SEND $1, if your dealer can't supply you. We'll send enough Shoo-Fly to protect 200 cows, also our 3-tube gravity sprayer without extra charge. Money back if not satisfactory. Name Express Office. Booklet FREE. Special terms to agents.

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Editor knows from experience that Shoo-Fly is O. K.

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"make good" because they're made good. And they've been getting better every year for 15 years. If you want to be treated right, order a Kalamazoo now. We prepay freight. Get our catalog; it tells the whole story. Address Dept. 26.

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UNIT STEEL SILO DOOR FRAME

FOR BRICK, HOLLOW TILE, CEMENT AND CONCRETE SILOS Gives masonry silos every advantage of stave silos. Rigid door frame, continuous ladder, bevel refrigerator doors, each door a unit. Write for folder.

UNIT STEEL SILO DOOR FRAME CO., 2931 N. SECOND ST., DES MOINES, IA.

HOLSTEIN-FRIESIAN CATTLE.

HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

FOR HOLSTEINS

WRITE RUSSELL

T. H. RUSSELL, GENEVA, OHIO

Holstein-Friesian Bulls

FOR SALE — One thirteen-months old bull by Dutchland Hengerveld Winona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address
A. J. Podendorf, Logan, Iowa.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented. bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

HOLSTEINS—Old and young bulls, cows, heifers, calves. Get our sale list. Prices low; quality the highest. Galloway Farms, Waterloo, Iowa.

AYRSHIRE CATTLE.

EDELWEIS AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

FRED TSCHUDY & SON
Monroe Wisconsin.

AYRSHIRES—Bulls all ages, cows, heifers and calves. Ask for sale list. Highest quality—reasonable prices. Galloway Farms, Waterloo, Iowa.

JERSEY CATTLE.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

Jerseys For Profit

AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., N.Y.

centages of increase for the decade in these items, as well as in the value of products, were less for New York than for Wisconsin. Iowa ranked third as regards value of products in 1909. Minnesota which shows an increase of 96.5 per cent in value of products for the five-year period, advanced from fifth place in 1904 to fourth in 1909, having exchanged positions with Illinois, which shows a gain of only 34.1 per cent for this period.

Among the thirteen states which reported products for 1909 valued at more than $5,000,000 these show very large percentages of increase for the decade 1899-1909: Washington (511), Michigan (264.6), California (256.2), Nebraska (240.8), Minnesota (198.2), Wisconsin (167.6), and Ohio (154.4). Much higher percentages are shown for a number of other states, most of which, however, reported only a small proportion of the total value of products even in 1909. The states showing the highest percentages of increase were North Dakota (743.4), Oregon (670), Idaho (662.1), and Missouri (585).

GREEN FEED FOR WINTER.

To the Editor of The Homestead:

The man who is keeping cows for milk and butter must now make preparations for laying in his green feed if it is to be done this year. Those who raise beets, pumpkins, turnips and mangels must plant them, in order for them to mature before freezing weather. Those who have silos, must begin to think of filling them before long.

Mangels and beets were grown largely for winter cow feed, before silos became so general and popular with dairymen. They are grown to some extent now, and should be grown more by those who have no silos. For green winter feed for cows, mangels have proved to be the best of the root crops, both for dairy and for beef purposes. They are easy to harvest and store and will produce an enormous yield when planted on well fertilized soil.

Best results are obtained with mangels when fed as a half substitute with grain and other concentrated feed stuffs. When fed alone, the flow of milk is almost as good, but the richness below the average. Mangels may be grown and cultivated on a small space, and their cultivation and harvesting may be done at times when the work will not seriously interfere with other crops.

Tests have been made that feeding corn silage is not only better than feeding root crops, but that it can be more cheaply raised. On a large farm, where dairying is to be continued for some time, the building of a silo, and the production of enough corn to fill it is the cheapest way of securing good winter feed for the cows.

Subscriber.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending July 13, 1913:

One more week of favorable weather has been added to this auspicious mid-crop season. The temperature was about normal, and cooler than the two preceding weeks. Showers were general on Friday except over the extreme southeastern counties, and the amounts of rainfall exceeded an inch in many localities. Rapid progress was made in haying and harvesting. Clover hay is exceptionally heavy and timothy is fair to good. Much winter wheat, rye, early oats and barley are in shock, and threshing has begun in southern counties. Late oats are beginning to ripen and will be ready to cut in a week or ten days. Winter wheat is a good crop, but the yield will not be as great as last year. The showers were of great benefit to corn, pastures, late potatoes and garden truck, but more rain is needed for corn, which is beginning to tassel and will require plenty of moisture to produce heavy earing. Apples continue to drop badly.

Geo. M. Chappel, Sec. Dir.

A pheasant with a single toss of its bill kills more insects than a turkey gobbler will eat at a whole meal. Too, the gobbler eats his insects after they have gotten fat eating the crop, the pheasant eats his when they are still in the egg and before they have taken a bite.

Ask your neighbor to subscribe for The Homestead.

HOT WEATHER
the Ideal Time to Use a
DE LAVAL
CREAM SEPARATOR

THERE is no time when the use of the DE LAVAL Cream Separator is so indispensable to the profitable production of cream or butter as during the hot weather of midsummer.

The use of the separator at this season usually means the difference between a profit and a loss in dairying. It accomplishes a great saving of butter-fat that goes to waste with any other method of separation and enables the production of a higher quality of cream and butter-fat than is otherwise possible.

Moreover with a DE LAVAL the advantages over other cream separators are greatest at this season because the separation is more complete and the cream heavier and more even in texture. The machines turn more easily and the capacity is greater, getting the work through more quickly.

If you haven't a separator you can scarcely afford to defer the purchase of a DE LAVAL, or if you have a separator which is not doing satisfactory work there is no better time to discard it in favor of a DE LAVAL, first trying the machines side by side for your own satisfaction, which every DE LAVAL agent will be glad to give you the opportunity to do.

See the nearest DE LAVAL agent **at once** or if you do not know him write us direct for any desired information.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

"Opens and Closes Easier Than Your Barn Door"

That's the opinion of every man who ever fed stock from the Hinge Door Silo. So simple and easy that it can be operated by a child with safety. Write us today for full facts about

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with all the latest and valuable improvements in silo construction, and trebled in value with the Hinge Door. Our book also tells about *Lansing Silos.* Your choice of two famous makes. Get our book before you close a deal for any silo.

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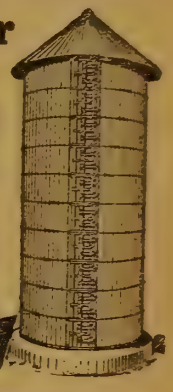

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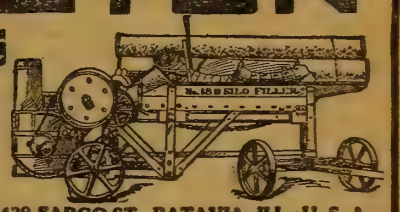
Handsome, illustrated booklet giving 30 convincing reasons for buying the powerful, low down, underslung, cut-under oak frame, Appleton Silo Filler, mailed free. Write for it to-day.



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HOLSTEIN CATTLE.

Pure-bred Registered
HOLSTEIN CATTLE

Not many years ago 16 lbs. of fat in 7 days was considered a very creditable yield for full aged cows and many a breeder, looking for a bull to head his herd, resolved to consider only such animals as could show a dam with this record or better.

Today 16 lbs. of fat is the mark aimed at by Holstein breeders for their two-year-old heifers and many surpass it.

This progress shows what intelligent selection and breeding will do and ought to prove an incentive to the farmer to improve his own herd.

Send for Free, Illustrated, Descriptive Booklets.

HOLSTEIN-FRIESIAN ASSN., F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

HOLSTEINS FOR SALE

3 CAR loads high-grade Holstein heifers one to three years old. Some bred. Tuberculin tested. Prices right. ROCK BROOK FARM, Station B, OMAHA, NEB.

DOGS.

Scotch Collie Pups

I HAVE 6 male pups, sable and white in color, six weeks old that are out of an excellent working bitch. Their sire is also a good worker. Both are natural heelers. Price $5.00 each for the next two weeks. Better order at once if you want one.
J. E. SMITH - - - VICTOR, IOWA

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collie pups for sale. Sable and white in color, perfectly marked. Sired by Hilander II No. 148502. Dam Willing Lassie No. 148503, two of the best heel driving dogs in the state. Price $5.00 for females and $10.00 for males. Write me quick. Le Roy Brown, Lamoni, Iowa.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

MUST SELL at once, my entire kennel, at half price. Puppies, brood bitches and trained collies. Write at once for prices. E. J. Thomas, West McHenry, Illinois.

CENTER KENNELS Fox Terriers—50 all ages—bred or open—females—best ratter, pet or watch-dog. T. H. Kaldenberg, 1401 Main St., Pella, Iowa.

COLLIE PUPS Natural heelers, plenty grit, expert driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

FOR SALE—Thoroughbred Fox Terriors. Price, males $5.00 each; females $3.00 each. Address, mentioning Homestead, W. S. Huber, Tipton, Ia.

A. DE BOER, 510 Addistion St., Pella, Iowa, breeder of pure Fox Terriers. Pups ready for shipment. Males $5.00, females $3.00 each.

FOR Sale full blood S. C. Pups; all well marked from parents that are natural heelers. Are all sable and white. Earl M. Filson, Birmingham, Ia. R. R. 3.

RHODE ISLAND REDS.

Rose Comb Rhode Island Reds

EXCLUSIVELY.

EGGS FOR HATCHING

LARGE-BONED, deep red birds with long backs. Range bred and of prolific laying strain. No better blood anywhere. Eggs properly packed. Fertility guaranteed. As to my reliability, write any bank or business firm in Iowa City.
Henry G. Walker - - Iowa City, Iowa

RHODE ISLAND REDS

SINGLE and Rose Comb winners of 9 silver cups and shape and color specials. Bred for heavy egg production. **EGGS** $1.00 for 15; $5 for 100. Chicks 15c each; $12 per 100. Send for mating list. It's free. Sterling Poultry Farm, Box 5. H. B. Bressler, Mgr., Sterling, Illinois.

R. C. Rhode Island Reds

EGGS now only $2.50 per 15, from pen headed by first-prize cockerel at the big St. Paul show. 1911. Eggs from fine farm range flock only $3.00 per 100. H. E. Huston, Iowa Falls, Iowa.

FOR SALE—A few choice R. C. Rhode Island Red. One-year-old hens and two cock birds. Mrs. Charles Belz, Conrad, Iowa.

S. C. R. I. RED EGGS Pen 1, $1.50 per 15; farm range, 75c per 15; $4 per hundred. Address **Mrs. Sophia Ruder, Laurel, Iowa.**

WYANDOTTES.

White Wyandottes 100 hens, 10 cock birds for sale cheap, No. 1 breeders. Geo. W. Livingston, Monroe, Iowa.

PARTRIDGE Wyandotte eggs for hatching at $3 per 100. Breeding stock for sale at reasonable prices. Address Thos L. Morlan, Indianola, Iowa.

FAHA'S Silver Wyandottes. Eggs from 5 best pens in America, 15, $1.25; 30, $2.00; 100, $5.00 Frank Faha, Jr., Box 620, Dyersville, Iowa.

BUFF Wyandotte eggs for sale from 3 fine pens and one range flock. Heads of pens score better than 92%. Write for prices, R. B. Rowe, Indianola, Ia.

BABY CHICKS.

CHICKS Cheap. 4 varieties good stock price 6 1-2 to 10c ea. after June 17th delivery. Catalog Free. **20th Century Hatchery,** Chatfield, O.

CORNISH GAME.

EGGS "DARK CORNISH" EGGS

SETTINGS from 3 prize-winning pens. Range stock eggs by the hundred. Prices reasonable. Mrs. John E. Griffith, R. 9, Washington, Iowa.

BRAHMAS.

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa

LANGSHANS.

B. LANGSHANS AND I. R. DUCKS. Some choice cocks and hens for sale. Farmers' prices. Write Bert A. Randell, Mt. Zion, Iowa.

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

WHITE DIARRHOEA.

To the Editor of The Homestead:

Mrs. C. M. Hiney, one of our Ohio subscribers, makes the following inquiry:

When my chicks are four days old their plumage gets rough and they cry all the time. They eat and drink as if starved and die in a short time. I have used several makes of good incubators, some hot water and some of them hot air machines. Have tried keeping incubators closed until the hatch was over and have tried taking them from the machine, and all with no good result. They get weaker and weaker and smaller, and then fall over dead in from four days to four weeks. Have fed chicken feed, hard-boiled eggs and toasted bread. Tried giving them water three times a day and then gave them water all the time. I get splendid hatches—194 chicks from 257 eggs. We lost 1,000 chicks last year and two hatches this season. I wrote to another paper—a poultry journal—but never got a reply. I am discouraged and will be thankful for any help.

It is small wonder that our correspondent is discouraged. To see a fine lot of bright, vigorous appearing baby chicks, seemingly in the very best of health, begin one by one to droop, then as our inquirer says, "grow smaller and smaller" and sooner or later "fall over dead" causes one to wonder if it would not be more profitable to quit the chicken business and raise onions.

The first experience we had was about ten years ago and since that time the country has lost thousands and thousands of chicks from this dreadful disease. It is known by several different names such as "white diarrhoea," "going light," "little chicken cholera," besides a half dozen, long, dry scientific names. No difference what called, it is the same dreadful disease and well-nigh impossible to combat.

Several experiment stations have investigated this disease with no result, only that it is caused by bacteria. It seems to spread in every neighborhood where large numbers of fowls are raised, and incubator chicks are much more susceptible than those hatched under a hen. Not only is the trouble contagious through contact; the bacteria has been found in the ovaries of the hens and in the yolks of eggs.

Dr. Stanley A. Merkle says that among many predisposing causes may be mentioned: lack of sufficient heat, impaired vitality in the breeding stock, foul water and air, musty feed, lack of grit, too much grit, unabsorbed yolk and indigestion; all or any one of which may cause acid diathesis or an excessive acidity in the system of the chick.

As an illustration Dr. Merkle says that if 100 healthy, vigorous chicks are placed in a brooder and subjected to excessive heat for twenty-four hours, or given unclean water, subjected to a sudden chill or required to breathe a poisonous gas or eat musty feed, they would develop the dreadful disease in from twenty-four to forty-eight hours. Anything which interferes with the proper functioning of the organs of nutrition or elimination is a direct factor of the cause of acid in the system.

Fresh air, or oxygen, is a great specific for acid in the system, and too much, rather than too little, air when in the process of incubation should be given. It is unsafe to open the incubator when the eggs are hatching, neither is the average incubator so ventilated as to allow the gases to escape. This gas is unquestionably harmful. There is yet much to be learned, both as to making and running an incubator. It is very plausible that the trouble originated in machine hatched chicks, and once started has rapidly spread.

Little or nothing can be done for the afflicted flock. We have seen a few instances where afflicted chickens pulled through and they were stunted, lacking in vitality and predisposed to every ill that fowls are heir to. They are a menace to the poultry keeper. Prevention is the only hope and that is not always effective. Begin with the poultry buildings and yards. Rake and burn all litter and spray every inch with a strong disinfectant, then give the incubators and brooders vigorous attention. Scrub inside with hot soap suds and follow up with an antiseptic wash; a coal tar solution is good, though it is safe to use anything of this sort which your dealer happens to keep if the machines are left open until the fumes evaporate.

Next give the eggs to be incubated your attention. A cloth dampened—not saturated—with alcohol should be used to wipe each egg. If followed, this disinfecting business will get rid of the trouble so far as outside conditions are concerned. If, as it is believed, the bacteria is in the egg there is small chance for the chick to escape. It is the old story of prevention rather than cure.

I know one extensive breeder who has religiously disinfected year after year, who has never had a chick sick from this disease. He is simply precautious and the trouble has never developed in his flock.

Minnie G. Stearns.

LOSS-OFF IN SUMMER.

To the Editor of The Homestead:

After the breeding season is over our time and attention is so engrossed in caring for the growing youngsters that the flock suffers neglect. This very thing happened in our business year after year. One night in June when only one dozen eggs were found from nearly 100 hens we did some good, hard thinking and next morning got busy.

The place was raided for delinquent hens. We found them everywhere—in the shrubbery, in the granaries, under cribs and worse yet, some of them under the horse troughs, all fondly expecting to hatch chicks. They were rounded up and placed in a roomy, shady yard. Not a very promising lot surely, mad as hornets, clucking and fighting for dear life, they certainly did not inspire confidence.

Those hens were given what they would eat of everything on the farm. A little corn, oats, table scraps, milk both sweet and sour, clover fresh from the meadow and occasionally a stalk of green corn pulled from the field, all of which they greedily ate. With a spade I dug a fresh place for them to wallow every day, gave them grit and crushed shells and raked and burned the litter in the yard for charcoal.

You may talk about hens being slow to lay out of the natural season, and to some extent this is true, but if rightly fed and cared for a hen hasn't so very much to say about whether she produces eggs or not; it is almost wholly up to her keeper.

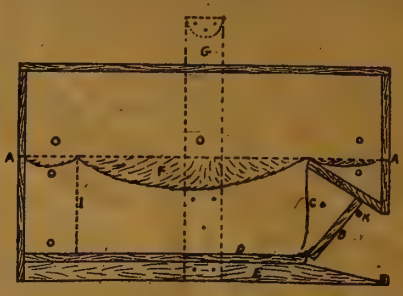
These hens were never neglected and produced a large per cent of eggs until December. If one of them became broody she was put out on the range and if a hen on the range was found clucking, into the yard she went where she soon forgot it. They went through the molt with little or no falling off in egg production. The loss of feathers was so gradual as to hardly be noticed. This extra care gave us more profit than three times that number at range on the farm.

A Subscriber.

A GOOD CHEAP HOMEMADE HOVER.

To the Editor of The Homestead:

An inexpensive hover for rearing chicks without a brooder or mother hen can be made from an ordinary cracker box. It is easily constructed and will take care of twenty-five to forty chicks from three to five weeks. The cracker box is sawed around five inches from the bottom as shown at line A-A in accompanying diagram. The bottom of the box becomes the cover of the hover which is made of the seven-inch rim. You will notice the cracker box is inverted in the completed hover. To fit this seven-inch rim in the hover saw an opening in one end four inches square as shown at L. Nail two strips one inch wide and slanted to a point (E) on bottom inside edge of sides, and nail in a half-inch floor extending from the back to where the slant begins, four inches from the front (D). Hinge a four-inch



strip dressed until it will fit and work smoothly to this floor (B). Nail a four-inch strip (H) so it will extend from the top of entrance back and up just so the strip (B) will touch it when in position shown. Bore a quarter-inch hole and fit a peg in it at K to hold B in place when raised Tack a strip of cloth, as shown by C, to H so it will hang almost to the floor and cut from bottom almost to the top into two-inch strips so the chicks will readily pass through them. Nail a two-inch strip (G) three or four inches longer than the height of the cracker box, to each side of the box and cut a piece of broomstick or half round a little longer than the width of the box, which when fastened between the ends of these upright sticks serves as a handle to carry the hover. This handle being longer presses the sides out a little so the cover will slip into place easily. Nail strips of cloth across the two back corners as shown at dotted line I and bore several half-inch holes behind them, also one or two between the door B and the curtain C. The cover is prepared by tacking a soft cloth (F) to the bottom of it where it was sawed and boring several holes in the side for ventilation. Tack the cloth on loose so it will hang down considerable.

L. H. Cobb.

PRATTS **To Kill Lice and Mites** on fowls and in the houses, use PRATTS POWDERED LICE KILLER 25c and 50c per package and PRATTS LIQUID LICE KILLER 35c quart; $1 gallon Each the best of its kind "Your money back if it fails" 160-page poultry book 10c by mail At all dealers, or PRATT FOOD COMPANY Philadelphia Chicago **PRATTS**

ORPINGTONS.

RARE BARGAIN IN WHITE ORPINGTON EGGS

EGGS for less than half price the remainder of the season. $2 per 15. You may order direct from this ad. I will also offer some very fine large English White Pouter pigeons for sale. Address **F. Fortmann, Box 23, Dyersville, Iowa.**

Coleman's famous Buff Orps., Prize winners, June sale, 100 yrlg. hens, 6 cks. Eggs, young stock half price after June 1. Mrs. C. E. Coleman, Clarinda, Ia.

241 EGG Strain S. C. Buff Orpington. 100 breeders at $1.00 each. Eggs ½ price. Circular free. W. L. Bardsley, Neola, Iowa.

S. C. B. Orpingtons—Yearling and 2-yr-old breeding stock at prices below values. Chance to buy foundation stock cheap. Glynn Poultry Yds., Cascade, Ia.

PLYMOUTH ROCKS.

BUFF ROCKS

Eggs from flock, $1 for 15; $3.00 for 50; $5.00 for 100. Address **L. L. Woods, Grinnell, Iowa.**

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

DUCKS.

PEKIN DUCK EGGS

Eggs from prize-winning fowls at reduced prices. $2 per 22; $6 per 100. One man writes: "13 ducks from 13 eggs."
John M. Hall Williams, Iowa

MISCELLANEOUS.

52 VARIETIES of chickens, ducks, geese and turkeys. Birds score 90 to 96½ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa.

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LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

An observant country school-teacher once made the remark that saving on the farm was apt to be a one-sided proposition, that he sometimes wondered that the wife kept on patching and mending while the husband allowed good machinery to go to waste for lack of proper care.

A man can save just as much out of doors, sometimes a good deal more, than can a woman indoors; and if it be her duty to patch the family clothing, make over the old carpets, make dish towels of flour sacks and practice a thousand economies it is no less his duty to patch holes in the granary, repair harness and machinery and take pains to so house implements that they are not ravaged by the weather.

An exchange remarks that one often sees a harness tied together with baling wire or cord by a man who would raise "Hail Columbia" if his wife put a conspicuous patch on his trousers. He expects her to have the proper materials for patching and to do the work in a workmanlike manner. Why one rule for her and a different one for himself?

It is this sort of thing which makes many a woman a "nagger." She is expected to make the most of everything, to save every possible penny by making one do the work of two, and by doing without things she wants and really needs; if she sees carelessness and waste out of doors, if she is conscious of the fact that carefulness and economy and doing without are confined to her side of the house, it is but natural that she would remark upon it. If things keep on in the old way, if there is no change, she keeps on remarking upon it, her temper becomes "riled," her tongue grows sharp and her voice irritable, and her husband straightway accuses her of "everlastingly finding fault about something." A hard-working, good-tempered woman's disposition has been soured and a home made miserable. Whose is the fault? At whose door lies the blame? And how shall the situation be remedied?

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Can you fill in the blanks above and complete a well known baseball players name? You can if you try. Just write and tell me whose name it is and I will tell you how you can get the fine complete baseball outfit pictured below.

There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented-fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 840 Popular Bldg., Des Moines, Ia.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

If I can live
To make some pale face brighter, and to give
A second luster to some tear-stained eye
Or e'en impart
One throb of comfort to an aching heart,
Or cheer some wayworn soul in passing by;
If I can lend
A strong hand to the fallen, or defend
The right against a single envious strain—
My life, though bare
Perhaps, of much that seemeth dear and fair
To us of earth will not have been in vain.

In many of the older farm houses there is no dining room and the kitchen with its big fire is a most uncomfortable place in which to eat in hot weather. One of the most convenient substitutes for a dining room is a screened-in back porch. There is generally one or two windows from the kitchen opening onto the porch. Hang the window screens like a door and put up a stout shelf on both the kitchen and the porch side. Food may then be set through without extra steps. One ingenious woman with a window whose light could well be spared, took out the lower window sash, and substituted for it a screen covered with oilcloth. This screen opened on the porch. In the kitchen she placed an old cupboard, from which the back had been removed over the opening made by the window. This was accessible from both sides and held all the dishes required for the table. The table should be covered neatly with white oilcloth tacked down, as a cloth which blows about by the wind is never advisable.

CANNING HINTS.

For all simple canned fruits it is best to make a sirup of sugar and water, varying the sweetness to suit different fruits. When this sirup has boiled about two minutes, drop in the fruit. Thorough scalding of berries is all that is necessary. The fruit thus canned is whole and of good color. A can is seldom lost.

Surplus juice with a distinctive flavor may be canned and put away until some later fruit ripens. The juices may then be mixed and made into jelly, or it is an excellent addition to mincemeat, for flavoring and coloring pudding sauces, for tapiocas, etc. The sick person will find the juices of peaches, apples, raspberries, blackberries, strawberries and barberries a very refreshing drink.

The largest amount of spoiled fruit is due to the jars and covers not being thoroughly sterilized. Before using, the clean jars should be put on in enough cold water to cover them and boil for ten minutes; then they are sterilized. They should be lifted from this hot water just as they are needed. The importance of tight lids and new rubbers cannot be overestimated. Only new rubbers should be used and they should be dipped into hot water before being placed on the jar.

There are a number of little contrivances that may be bought for a trifle or even made at home that are great labor savers when canning fruit. Parers and corers for peaches, pears and apples may be bought cheaply. The best paring knife is a good pocket-knife with the butt of the blade wrapped to protect the hand and prevent cramping; the short kitchen knives are also useful and may be bought for five or ten cents each. The jar filler is one of the most useful helps. It is not merely a funnel, but screws onto the Mason jars like a lid, and does not allow the liquid to come in contact with the rubbers.

AMONG OURSELVES.

Dear warm friends, keep cool, I beg of you; don't let your bodily thermometer rise to the boiling or even scolding point as you look over the accompanying picture of farm life. I enjoin you to have a hearty laugh, and to bring from memory's picture gallery some scene on the farm where toil, surprise and a round of hearty laughter were part of the day's work. Enjoy reading:

As the ever-looked-for farm journal of ours makes its weekly visit, it reminds me of days gone by when I used to write for the Home Department. We had a houseful of children on the farm in those days. Now all is changed, our boys have gone for themselves and our youngest and only daughter was married recently to a law student at Harvard College and now Massachusetts claims her. My John and I are alone in a village. Though very busy am I, yet my mind travels back to days gone by and one very vivid picture on the old homestead I see. At that time our neighbors were putting up dinner bells in their barns and windmill towers and, of course, we had one, too. "Why, yes," folks said, "so handy to call men folks to dinner. Besides, if any accident should happen, sudden sickness, or a fire, one could ring the bell out of meal time hours and fetch men folks from the field and arouse the neighbors, too." One day when our bell was quite new our hired girl informed me that the hogs were out. Now, this girl was fleshy, hence could not run very well and I had an infant in my arms, therefore I said, "Ring the bell," and she did ring the bell as if the house was on fire and did not let up till I called to her to stop. My husband, the hired men and the boys fairly flew from the fields. Some were so exhausted that they sat down to rest, while others set out to drive some thirty or forty half-fledged black hogs into the hog yard the other side of the barn. But those pigs had no notion of going in. They set out across the fields to the road. Finally, all but one of the men went in pursuit—even the hired girl went. On went the hogs, on went the pursuers. The pigs foamed at the mouth and some could hardly go longer and one after another of the pursuers gave up and sat down to rest, as the weather was very warm. Finally the men headed in a few hogs toward the house and called out to open the hog yard gate, for, as all well know, a hog won't go in the hole he got out of. One ran to open the gate, but returned shouting, "Our hogs are in the yard. Those are our neighbors' hogs!" The ejaculations that followed can easier be imagined than described. Of course, that dinner bell was to blame. Now, I'll tell you, dinner bells are all right on the farm, though I don't suppose they are used much now. Men folks carry watches instead and the telephone can be used to call up neighbors in case of emergency. Yet if one has a bell it is well to have certain signals, such as a few dings for things not serious, and a lively ring in case of fire.

How our sides shake as we picture the whole scene! Haven't you some such an experience to tell about? This is a good time of year to have a hearty laugh. Let's have another!

"Problems" used to bother us at school, but our problems of today tax our ingenuity and resourcefulness to just as great a degree. How to save strength, to save steps, to accomplish in one hour what used to take two. Big life problems. So we are glad that Patreca passes on to her sisters how she has made the washing problem easier:

Having been a reader of this paper for a number of years and having derived so much benefit from the suggestions of the different friends, I will tell how I do my washings. For a number of years washing had been a heavy burden to me where I washed them all through the machine, boiled them, then washed them through the machine the second time, rinsed them, etc. So I decided to heat a large dish pan of water the evening before washing, cut up one-half bar of soap and dissolve in this hot water, put all the white clothes in one tub, all the colored in another, pump up two or more buckets of cold water for each tub of clothes and into the cold water put hot, soapy water. Then in the morning I put on boiler, fill with water, into this I cut one bar of soap and one cup of "washing fluid," made of one can of lye, one ounce of salts tartar, one ounce of salts of ammonia, one ounce of borax, five quarts of boiling water, let dissolve and put in bottles for future use. Then I wring out white clothes cleanest first, put on to boil, when all are boiled I wash them through the machine, rinse, starch and hang out to dry. While I am waiting for white clothes to boil I wring out the colored clothes and the men's

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HAROLD SOMERS, 150 DeKalb Ave., Brooklyn, N. Y.

shirts, hose and other badly soiled articles I rub on the board, soap and then they are ready for the machine when the white clothes are washed out. I think this is a great improvement on the old way. My clothes are always clean and extremely white and it is surprising what a lot of dirt comes out in the water in which they are soaked. Put a small pinch of borax in the starch. It helps to whiten the clothes and makes the starch stay in the clothes longer. Then I use one of the new gasoline irons which I find such a help through the hot weather. It can be regulated for fine or coarse clothes and one can iron in any part of the house or out of doors.

It's pleasant to have story tellers in our group of friends and here is a mother who with her babies beside her gives us another kind of "Farm Picture" which she calls

DREAM MEMORIES.

I woke just now from a happy dream.
The dream I had was this:
A dream of soft caresses
From the hands I used to kiss;
And dimpled baby fingers
Touched my face and smoothed my hair;
I heard their pattering footsteps
In the hall and on the stair
And laughing baby faces
Played at hide and seek with me,
And eager childish voices begged for stories, "one, two, free."
The youngest tries to make believe
My knee a noble steed
And he will ride to Bamburycross
Before he stops to feed.
And then he cries, "Now sing 'Boy Blue!'"
And baby's fast asleep,
The rest are all clamoring
To hear about "Bo Peep."
It's quiet now, and nurse has tucked in tight each curly head.
The toys have all been put away,
The babies are in bed,
And I—I sit and dream the years away
And play it's true
That I've just finished singing,
To my little ones, "Boy Blue."

Tender and sweet is the cradle picture on the farm, and we quietly thank Mrs. E. C. T. for calling up our own "dream memories;" or for giving us a foretaste of the tender things of the years to come.

For those who enjoy good, wholesome graham bread, Mrs. E. J. Popplewell sends one of her tried and proven recipes:

Take three tablespoonfuls of good soft yeast, mix three pounds each of graham and white flour, make into a sponge with one and one-half pints of warm water; let this rise; when well risen, add one and one-half pints more of warm water, one-half cup of New Orleans or sorghum molasses and sufficient flour to knead soft; allow it to rise in a mass, then mold, place in pans, let rise and bake. I always stir my graham with a spoon until the last kneading, then make it very soft. New milk scalded and cooled is as good as water.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

MAKING MONEY BY TRAPPING.

(First prize.)

I will attempt to tell you how I make my money in trapping fur-bearing animals in winter. About the first of November I start to catch, and quit about the last of March. I have good luck in trapping, especially in skunks and civets. I catch my skunks and civets in the pasture in old badger holes. Best way to catch a skunk or civet is to take two big logs and put them about five or six inches apart and a trap on each end, so when skunks or civets pass by either end they will get caught. And in the morning I go there at about one o'clock and have two big skunks or civets. I shoot the shunks with my 22-caliber repeating rifle. Last year's crop was fine. I caught twenty civet cats, and sold them at thirty-five and fifty cents apiece; nine narrow-striped skunks and sold them at $2.50 apiece; and ten broad-striped skunks and sold them for $2 apiece.

—Expert Trapper.

Jessie.

(Second prize.)

Jessie is the name of a little lamb. We brought her up by hand. We give it milk twice a day from a bottle.

When she is very hungry she cries until we give her something. She will eat dry bread.

The garden gate is about two and one-half feet high. While we are not looking she quickly jumps across. One time she got in and ate half of the row of peas. If we chase her she runs so fast that we cannot catch her. She is a full-blooded Shropshire. Her wool is very thick, and she is always

JESSIE AND THE SHEPHERDESS.

hot in summer. Papa has thirty-eight little lambs. —The Shepherdess.

Get The Habit.

(Third prize.)

"If I had only learned it when I was young," is a sentence uttered by many. Children, are you learning all you can in your youth? If an opportunity presents itself make the very best you can of it, for it will never appear again.

Not only should you learn to be a scholar, but learn good habits. Habits form your character, and when formed in youth cannot well be abandoned.

For instance, if a child is taught to say "Please," "Thank you," "No, ma'am," and "Yes, ma'am," they will always say it. Also acquire the habit of treating rich and poor alike. If you have a chance to say a kind word to the poor, don't hesitate because someone is with you who would laugh. Also learn to be cheerful and don't pout, because it will make a very bad disposition.

—Mischief Maker, age 12.

The Kind Robin.

A week or two ago one of our friends put up a box for the wrens. Now most people think that the different kinds of birds are not friends, but this proves that they are. Two sparrows decided to build their nest there and the wrens decided to build there, too. They had a fight, and the wren was pecked until it was nearly dead. A robin came to help the wren, but the sparrows flew away, so the robin stayed by the wren until it revived. —Cricket, age 10.

PLEASANT FIELDS OF HOLY WRIT
Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON
3d Quar. Lesson 3, Ex. 3, 1-4, 20; July 20, 1913.

MOSES CALLED TO DELIVER ISRAEL—THE STORY.

After an absence of four centuries the sign of Divine presence blazes out once more. Its last appearance was the "lamp of fire" which swung low between the fragments of Abraham's dismembered sacrifice. The ineffable voice heard last by Jacob at Beer-Moses knew Egypt, not the mere "lay of the land," but Egypt's language, literature, law, custom. He knew his fellow countrymen, their strength and weakness. He was familiar with every inch of the Sinaitic Peninsula, from point to point of which he was to lead the emancipated nation for forty years. But this knowledge, after all, was merely incidental. Moses' real qualification was his religiousness. Is it too much to believe that it was this which led him to the sanctuary of the desert in very hopes that there Jehovah would break his silence and communicate his will? The prepared message came then as ever to the prepared mind. Never was more striking illustration of the Divine affirmation, "My strength is made perfect in weakness." Consciousness of his personal inadequacy to the tremendous task of freeing a wholly dispirited people from the most invincible despotism, drove to implicit obedience and trust in Jehovah. Forty years of exile, too, had inured him to trying vicissitudes, and made him "much enduring (meek) above all men." He was a graduate thoroughly equipped from God's school of adversity. His wonder-working rod was his diploma. As a few months later, in this very mount, his face toward Canaan and three million liberated serfs at his back, he prayed, "If thy presence go not with, carry us not up hence," so now, with his face toward Egypt and his mighty task clearly outlined before him, he invoked the Divine presence, and there came the assuring response, "Certainly I will be with thee." Enough! Pharaoh and all his serried legions are as the exceeding fine dust of the balance.

A HOUSEWIFE'S RELIEF AT THRESHING TIME.

To the Editor of The Homestead:

The article appearing under the above title in a recent issue of your paper was rather startling. I fail to see any relief from work in having to put up three lunches every day of the threshing season as compared with cooking for threshers one day, as this would necessitate baking every day for three or more weeks. Besides I do not think this would be treating the men right and I hope this system will never strike Iowa's broad-minded women.

There is no harder work on the farm than threshing. Then why should we make it worse by giving the men cold dinners and letting them go home late to a heavy supper and then to bed? There is no comparison between the farmer and the city man who eats a late breakfast, takes his lunch because he cannot get home and quits at six to go home to dinner and then rests as he chooses until bedtime. The farmer who eats an early breakfast, needs a good, warm dinner. In threshing time he never gets his supper until seven o'clock and if this is the heavy meal of the day how can he expect to rest well, retiring soon after?

I have a husband and two sons and be assured that I will never treat my men that way, sending them away with a cold lunch. If others adopt that plan my men can come home to a warm dinner and the threshing can wait until they get back, thus losing lots of valuable time.

My men say they will never take a dinner pail to a threshing. So far as we women are concerned we exchange work with each other and have lots of fun helping cook. Treat threshers like they were human beings, not machines and give them a dinner of good, sensible cooking. Mrs. E. E. Howe.

Clarke county, Iowa.

The egg production of the republic in 1912 was 1,750,000,000 dozen, as compared with 450,000,000 dozen in 1880. The exports of last year—19,000,000—were almost as great as the entire output of thirty-five years ago.

LANDS AND HOMES

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Write for complete information. Summer Tourist fares (1st class) daily to, and including, Sept. 30, 1913, and Homeseekers' fares (second class) 1st and 3d Tuesdays of each month.

R. A. SMITH,
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IDEAL 612-acre potato, corn, small grain and dairy farm with $10,000 farm equipment, including new gas tractor, plows, separator, 14 horses and 30 grade Jerseys; 100 acres timber; farm fenced. $8,000 worth new buildings, consisting of 10-room modern house, with furnace; large hip-hoof barn, small dairy barn, machine shed, 7,000 bu. granary with grain-lift, ice house with refrigerator rooms, chicken house, 2,500 bu. potato cellar, and 3,000 bu. roofed corn crib. Good well and windmill. 500 acres now in crop. Reason for selling: My duties as U. S. district judge prevent my giving farm proper attention.
This farm is beautifully situated high and dry on Red River, 3½ miles from station in best portion of Red River Valley of North Dakota; 10 miles north of Fargo, city of 18,000 with several colleges including state agricultural college. Price $100 per acre, including crop and above equipment. Reasonable terms. Only responsible persons need apply.
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OUR FASHION DEPARTMENT.

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THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6217 A Novel Shirt Waist.—This natty waist, tailored simply, has sleeves which extend to the neck edge and which are finished with a cuff. The back is plain and the front has two patch pockets and the closing band. The neck may be finished with a band or with a wide collar as shown. Linen, poplin or pongee silk can be used to make this shirt waist.

The pattern 6217 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¾ yards of 36-inch material. Price of pattern ten cents.

6086 Misses' and Small Women's Dress.—This dress is made with the sailor collar The long or short sleeves can be used. The three-gored skirt is made with a flounce. Linen, serge, pongee or poplin can be used to make this dress.

The pattern 6086 is cut in sizes 14, 16 and 18 years. Medium size requires 5 yards of 36-inch material or 3 yards of 54-inch goods. Price of pattern ten cents.

6109 Child's Middy Dress.—The blouse of this dress is made to slip on over the head, but the side seams are left slightly open to allow for this. The neck is trimmed with a fancy collar and the sleeves may be elbow or full length. The kilt skirt is attached to an underwaist which is sleeveless.

The pattern 6109 is cut in sizes 2, 4, 6, 8 and 10 years. Medium size requires 1⅝ yards of 36-inch light material with 1¼ yards of 44-inch dark material, ⅝ yard of 36-inch lining for the underwaist. Price of patten ten cents.

6214 Ladies' Dress.—This smart dress would make an excellent going-away dress for a bride or a dressy street dress for any woman. It is made with a shoulder yoke across back and front, extending well down on the shoulder. Here a plain sleeve is attached. The skirt has four gores. It opens in front over a small panel and may have either normal or raised waistline.

The pattern 6214 is cut in sizes 34 to 42 inches bust measure. Medium size requires 3⅞ yards of 44-inch material. Price of pattern ten cents.

6209 Ladies' Three-Gored Skirt.—This three-gored skirt is one of the best liked of the season's models. It may be made with high or normal waistline, has a few gathers at the back, but is plain in front and at the sides. The closing is in front. Linen or serge can be used to make this skirt.

The pattern 6209 is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅞ yards of 36-inch material. Price of pattern ten cents.

Bulletin No. 357 of the New York Agricultural Experiment Station (Geneva), announces the failure of summer pruning to control currant cane blight or currant cane necrosis. For eight years every cane showing injury in parts of a currant plantation was cut out, the inspections by the station botanists being frequently and carefully made, but no diminution of the disease could be observed, and the quantity of fruit was lessened on the treated plants. This disease is prevalent in some parts of the Hudson Valley, and the bulletin will be of interest there principally, though perhaps not of profit except in that it shows what not to do.

SOME ORCHARD SUGGESTIONS.

Some trees and vines are much hardier than others, and may be transplanted after they have leaved out in the spring, especially if they are small, if some dirt is spaded up with them, if they are watered freely after being transplanted, and if a plank or something of the kind is put up to keep the sun off for a few days. This is notably true of Concord grape vines, and possibly most other grape vines. So many tender vines and trees may be saved even if replanted after budding out, if you manage wisely.

During the past spring I transplanted a number of young Concord grape vines from my nursery to the grape trellis, after they had put out leaves, spading up as much dirt as possible with each little vine so as to prevent the roots from being exposed, and watering them thoroughly twice a day, to insure their living. But one of the vines had been set out in the nursery as a cutting, and had grown a root system during the winter and early spring, but the roots and the end of the cutting extended deeper into the ground than I thought, and in trying to spade it up with a spadeful of dirt almost all the dirt fell away, leaving the roots bare.

However, I planted the little vine any way, as it was one of the most luxuriant of the lot, gave it a good place at the trellis, put plenty of rich, black leaf mold around it, watered it regularly and stood a broad piece of plank up on the sunny side of it, moving the plank gradually around from east to west in the afternoon.

It seemed that the vine would die despite everything I could do to save it. In the early morning it looked somewhat fresh, but by late afternoon it was dreadfully wilted, and as I felt that this condition was due to my carelessness I was tremendously anxious to make the vine live. It had five tender shoots on the last year's growth of wood, and as these shoots kept getting more and more wilted and sick I began cutting off the ones which looked as if they were going to die, leaving the most vigorous ones. I cut off one each afternoon, so as to force what sap was coming up from the ground into a fewer number of shoots. I began cutting the shoots off from the bottom, but now I believe I should have begun at the top, so as to force the sap into the sprout nearest the ground, for the one nearest the sap supply has a better chance to live.

In four days I had all the tender shoots cut off except one, and yet it didn't revive as it should. The larger leaves looked green, but the bud itself looked unnaturally dark. And yet it looked greener than it would at this time if I had not cut off the other sprouts, because this one sprout was nurtured by all the sap rising in the vine. Still it did not look to suit me, and I decided that if cutting off all but one was a good plan, cutting off all of them would be still better, so I removed the last one, in the hope that the sap would bring out new buds on the vine.

In this I was not mistaken, for almost immediately I noticed that several dead-looking buds were beginning to swell, and within three days they put out tender leaves, and at this writing they are fairly springing into life; growing, it seems to me, fully three inches each day, and I know if I had cut off all the shoots on the vine immediately after setting it out these new buds would have swelled out quicker, and the second growth of tender sprouts would be much longer than they are now.

This is a valuable lesson for orchardists, as there are many kinds of hardy trees and vines which may be transplanted in the spring, and even in the late spring, after they have begun to put out leaves. You often find places where you would like to set out tree or vine in the spring, for perhaps one of your transplanted trees or vines has died during the winter, and you have no way of discovering it until spring. By digging up a hardy tree or vine with a spadeful of dirt and planting it carefully in your orchard where you want it to grow you have the chance to fill in missing spaces in your orchard, and if you make a bad job of digging up the vine or tree with dirt around the roots, and it shows signs of wilting the best thing you can do is not to try to save the tender shoots already on it, but to cut them off, and by watering the tree or vine faithfully force the sap to open new buds.

I know this is a good plan with Concord grape vines. They are hardy vines, and will grow from cuttings stuck in the ground in moist places during the winter, but if set carelessly out it is difficult to save the sprouts upon them at the time of transplanting, and in the effort to save them you may lose the whole vine, as the sap from the decaying, tender new sprouts seems to sour it. Better cut off all the tender shoots if they look wilted, and the rising sap will force out new buds.

Another lesson I have learned, and one which should be valuable to all orchardists, is that you can prevent the too early swelling of buds on young fruit trees by sprinkling the ground around them with cold well water or spring water twice a day, in the early morning and late afternoon. This keeps the ground cold and prevents the buds from swelling. After the trees get older and tougher they may be hardy enough to escape injury from frost without further attention from you.

By this means I kept some young Elberta peach trees from budding out for three weeks after my neighbors' peach trees had budded out, and some of their peach buds were killed by spring frosts. If you have a few dozen fine young Elberta peach trees, Japanese persimmon trees or English walnut trees which you are trying to make grow in a latitude somewhat north of their natural zone you will find this a powerful aid in your efforts, provided you have a well or spring of cold water near by. An ordinary garden sprinkler will hold enough water to sprinkle one tree, and the trees may be easily sprinkled with a half hour's work twice a day, night and morning.

Taking care of a large orchard of young trees in this way might not be practicable, though with a powerful flowing well or spring of cold water you might rig up a sprinkling apparatus on wheels which would be serviceable for use on a larger scale. I have certainly demonstrated that you can hold back the budding time of peach trees three or four weeks, and in the care of young treees it is attention to small details which spells success.

J. M.

The mule business in the United States has an importance few men realize. The South is mainly dependent upon mules for work stock. According to the 1910 census Texas led in the number of mules on farms with 672,781, while Missouri had 342,086; Georgia, 294,720; Tennessee, 275,000, and Mississippi, 254,125. Texas mules were valued at a total of $73,780,676; Georgia, $43,872,651, and Missouri, $43,362,102. The highest average price reported for mature mules was $208.25 in Maine, which had only 342 head. Several other North Atlantic States which had only a few mules also had an average valuation above $150 per head. Among the states with large numbers of mature mules, South Carolina had an average value of $153.64; Georgia, $149,45; Missouri, $141.89; Kansas, $139.69; Tennessee, $135.51, and Illinois, 135.01. The average value of mature mules for the whole United States was $131.54, while the total number of mules and colts was 4,183,572, with a total value of $552,402,080.

CORN HARVESTER with Binder Attachment cuts and throws in piles on harvester or windrow. Man and horse cuts and shocks equal with a corn Binder. Sold in every state. Price $30. W. H. Buxton, of Johnstown, O., writes: "The Harvester has proven all you claim for it; the Harvester saved me over $25 in labor last year's corn cutting. I cut over 500 shocks; will make 4 bushels corn to a shock." Testimonials and catalog free, showing pictures of harvester. Address NEW PROCESS MFG. CO., SALINA, KANSAS

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THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Ill., July 12.—Arrival of only 31,500 cattle this week following a crop of similarly small dimensions the week previous and running in conjunction with small supplies of Southwestern grass stuff at other markets and cooler weather that has brought consumptive demand for beef back to something like normal volumn, has worked a radical change in the complexion of the market during the week now closing. Chicago beef steer values have advanced 30 to 50c since the anti-July 4th holiday session and are back up close to the season's high levels. What will happen next week will depend on the grower, and packers are confident that picking will be easier, counting on the bulge to fetch in a materially larger supply, but an opinion exists that cattle back in the country are in strong hands and not likely to be easily dislodged. Fly time is here and that pest usually causes some liquidation, although owing to difficulty in replacing cattle growers are not likely to unload with old time recklessness. The trade is convinced that the high-price pinnacle of 1913 has not yet been passed. Stocks in Packington coolers are so chronically short that a light, fresh supply on two big market days in succession finds buyers scrambling to replentish. Recent good rains have revived pastures, lessening the necessity of liquidating half-fat stuff and have greatly enhanced the prospects for a good corn crop, giving feeders further incentive to make their cattle good before cutting them loose.

Trade of the past week has had a feature in the generous proportion of stillers which have sold largely at $8.30 to $8.75, many of them 50c above last week. When the distillery crop of beef has been cleaned up, corn-fed bullocks may be expected to move up a few more notches, especially if packers have the usual fall incentive to stimulate the filling of feed lots, and no more effective means could be imagined than by making a 10c market for a few bullocks that are in the specialty class. At the rate which stillers are now running they will be practically all cashed in by the end of July.

Demand this week has been strongest for quality, but light receipts of Texas cattle at Kansas City, St. Louis and Fort Worth have been of material aid in boosting so-called "cheap" grades to higher levels. At notable phase of the market has been the unseasonable strength of the market for "cheap beef," the rush of grassers so confidently predicted having failed to materalize. It is a foregone conclusion that anything with a corn-crib cross will sell to advantage all through the season. Frank Branerd, brand inspector for Wyoming and the Dakotas, is in receipt of advices from that quarter to the effect that the beef round-up will be late and the crop small.

A $9.15 top was made this week on ripe heavy bullocks, while prime yearlings touched $9.00. There has been a very fair sprinkling of $8.75 to $9.00 business, a spread of $7.85 to $8.90 has taken 90 per cent of the run and $8.00 to $8.75 close to 80 per cent. There will be a good chance to clean up 20,000 cattle here Monday at probably close to shady prices, but a heavier run will probably cause a temporary decline.

Butcher cattle have advanced with steers and the calf market has soared on another short week's supply. The advance in butcher she stock measures 35 to 60c in extremes over last week's closing, mostly 40 to 50c, while canners and cutters show 15 to 25c gains and bulls are 50 to 75c above last week's demoralized closing on short receipts and a resumption of good eastern demand which disappeared around the July 4th holiday period. Bulk of the butcher cows sold at $5.65 to $6.85; choice to fancy dry-fed classes, in short quota, reaching $7.00 to $8.00; cutter cows selling largerly at $4.65 to $5.10, and canners mostly at $4.15 to $4.50. Bulk of the bologna bulls are going at $5.90 to $6.25 at this writing, with big-weight Holsteins up to $6.35 to $6.40 and only common light bulls from $5.50 down. Prime-fed heifers have scored $8.40 to $8.55, as high as $8.80 having been paid for finished mixed steer and heifer yearlings, and bulk of the fair to good killing heifers selling at $7.00 to $7.90, a decent light, grassy sort around $6.50 to $6.85, and common and inferior sorts downward to $5.50 and lower. The calf trade is running into a small supply period and veal promises to be in the luxury list all summer and fall, though this week's advance, which measures $1.25 to $1.40, will probably be followed by a temporary reaction. Prime vealers sold here Friday at $11.00 and the bulk of the good vealers at $10.50 to $10.75.

This has been one of the lightest weeks in the stock and feeding cattle trade within many months, the press of farm work in all the corn-belt states having its temporary repressive influence both on marketings and demand. Prices are 10 to 15c higher than a week ago. Killers have creamed the run of fleshy feeders, paying up to $8.10 to $8.25 for steers really of only a toppy feeder sort, and giving the country access to no feeders of $8.00 quality. Bulk of the fair to good feeders sold at $7.40 to $7.85 during the week and a like qualitied class of 600 to 800-pound stockers at $7.00 to $7.50, though high-grade feeder steer yearlings are quoted to $7.65 to $7.90 and a decent sort of light, thin stockers, not as well colored as they might be, selling down around $6.75, scrubby dairy-bred stuff going as low as $5.50 to $6.25. Few stock heifers have sold above $6.50 or below $6.00 and $5.25 to $5.75 has taken most of the stock and feeding cows. Quotations:

STEERS.	
Prime steers, 1,300-1,700 lbs.	$9.00@9.15
Choice steers, 1,250-1,500 lbs.	8.90@9.10
Choice steers, 1,100-1,250 lbs.	8.75@9.00
Good to prime yearlings	8.60@9.00
Medium to good yearlings	7.80@8.50
Common to fair yearling	7.00@7.75
Good steers, 1,100-1,400 lbs.	8.40@8.80
Good steers, 1,000-1,200 lbs.	8.30@8.60
Fair steers, 900-1,200 lbs.	8.00@8.40
Medium steers, 850-950 lbs.	7.50@7.90
Inferior steers, 800-850 lbs.	7.00@7.50
BEEF COWS.	
Common to fair	5.15@5.50
Fair to good	5.50@6.00
Good to choice	6.00@6.85
Choice to prime heavy	6.85@7.25
Prime to fancy dry fed	7.25@8.00
CANNERS AND CUTTERS.	
Inferior canners	3.25@3.65
Poor to fair canners	3.75@4.15
Fair to good canners	4.15@4.50
Fair to good light cutters	4.60@4.75
Good heavy cutters	4.75@5.10
HEIFERS.	
Poor to medium	5.65@6.50
Medium to good	6.50@7.25
Good to choice	7.25@8.00
Choice to prime	8.00@8.35
Prime to fancy yearlings	8.35@8.65
BULLS.	
Canner and poor light	4.75@5.35
Light to medium bolognas	5.50@5.90
Good to ch. heavy bolognas	6.00@6.35
Plain to good beef	6.40@6.90
Good to choice beef	6.90@7.25
Choice to prime beef	7.25@7.75
CALVES.	
Inferior to fair heavy	5.00@6.25
Fair to good heavy	6.25@7.00
Good to choice heavy	7.00@7.50
Gd. to ch. stock steer clvs.	7.00@7.50
Light skinners	6.00@700
Poor to good light vealers	9.25@10.50
Good to prime vealers	10.75@11.00
STOCKERS AND FEEDERS.	
Selected, 900 to 1,150 lbs.	7.75@8.00
Selected, 650 to 800 lbs.	7.65@7.90
Good to choice, 600 to 900 lbs.	7.10@7.65
Fair to good, 600 to 700 lbs.	6.50@7.10
Com. to fair, 500 to 800 lbs.	6.00@6.50
Inferior to com. 500 to 700 lbs	5.50@6.00
Good to choice stock heifers	6.35@6.75
Poor to good stock heifers	5.35@6.35
Good to choice stock cows	5.40@5.75
Poor to good stock cows	4.85@5.35
Poor to flood stock cows	4.85@5.35

Hog trade continues to perform most creditably. Receipts this week will show a very substantial increase over the small run of the holiday week preceding it, and a modest gain over a year ago, but prices have hit the highest level struck since last April. During the first half of the week advances of 15 to 25c over last week's closing basis were shown and 5 to 15c of this gain has been retained in subsequent trading. Good hard-finished classes show most of the advance, Friday's crop including a half dozen or more loads selling up to $9.20—light and medium-weight butchers, while the bulk sold at $8.85 to $9.10. Green and slippery packing stuff is getting seasonable discrimination and much more of it is coming than previously this season dressing percentages being about 1½ per cent below their early June standard. The price range is certain to widen further between such grades and choice light and butcher classes. Predictions of 10c hogs within the next sixty days are easily garnered. Eastern receipts are dwindling and butchers down that way will be forced to buy more hogs at Chicago, increasing competition here. Pork is needed to supplement an increasing deficiency in beef and whence it is to came nobody pretends to know. Friday's quotations:

Bulk of sales	$8.85@9.10
Mixed, 210 to 250 lbs.	8.75@8.90
Mixed, 170 to 220 lbs.	8.90@9.05
Medium weights	8.90@9.00
Heavy butchers	9.00@9.10
Light shipping	9.15@9.20
Heavy shippings	8.95@9.10
Heavy packing	8.65@8.85
Rough heavy packing	8.45@8.60
Throwout packing sows	8.00@8.45
Fair to choice light	8.90@9.15
Light-light, 135 to 155 lbs.	8.80@9.05
Pigs, good to fancy	8.50@9.10
Pigs, inferior to fair	7.75@8.40
Boars, inferior to fair	4.00@5.00
Stags, subject to dockage	9.10@9.40
Government throwouts	4.50@7.00
Government pigs	3.00@4.25

Fifty-cent advances have been scored on both fat sheep and lambs this week, despite a heavy run of southern lambs at Louisville. The southern run is showing signs of deterioration in quality and a strong suspicion exists that the run from that quarter will be practically over by August 1st, especially if they keep moving meanwhile with the freedom of the past week. There is a strong under current to the market and with beef, pork, veal and everything else in the line of eats high, the trade is looking to the sheep-house trade of the next few months as one promising good things for the selling side. Few range sheep or lambs are as yet reaching Chicago, Omaha and other "river" markets stopping the bulk of the earlier shipments by virtue of paying relatively good prices, and no big runs of rangers are expected prior to August 1st. Orders are piling up here for feeding lambs and a high level trade in that department this fall is certain. It is doubtful if $6.50 would now stop choice feeders. Demand is also gaining breath for stock ewes, a plain sort of aged native stock selling at $3.75 to $4.00, a good to choice class at $4.50 to $5.00 and range yearling breeders of the right kind at quotably high levels. Quotations.

NATIVE STOCK.	
Lambs, good to prime	$8.00@8.35
Lambs, fair to good	7.50@8.00
Lambs, common to fair	6.75@7.50
Lambs, culls	5.50@6.25
Ewes, good to choice handy	4.75@5.25
Ewes, good to choice handy	4.25@4.65
Ewes, culls	2.50@3.75
Yearlings, good to ch. handy	6.50@7.25
Yearlings, fair to good	5.75@6.50
Wethers, good to choice	5.00@5.5
Bucks, fair to choice	3.25@4.00
WESTERN RANGE STOCK.	
Lambs, good to choice	8.00@8.40
Lambs, fair to good	7.50@8.00
Lambs, feeders	6.00@6.50
Yearlings, good to choice	6.00@6.75
Yearlings, fair to good	5.50@6.00
Yearlings, feeders	4.75@5.50
Wethers, good to choice	5.00@5.50
Wethers, plain to good	4.50@5.00
Ewes, good to choice	4.35@4.85

SAVING OUR GREATEST CROP.

(Continued from page 9.)

accurately to discover the contour of craniums; chests are thumped and stethoscope records are made to test the lungs, while bright colored balls and toys are dangled before surprised eyes in order to test the quickness of mental grasp and the ability of the juvenile brain to respond to a suggestion. And all the while fond and doting parents and even tentative and timid bachelors stand afar off and wonder why the examiners forget all about noting the texture of hair, the Cupid's bow of the lips and the dimples which play about laughing mouths. But these are health contests, not beauty contests; and the item of daily food, the question of sleeping room ventilation and the apparently immaterial details of play are more carefully gone into by the doctors and nurses than are those perfectly apparent points of facial beauty on which former contests were invariably determined.

The photo displayed herewith is one that has been given much publicity and shows a rare good string of Poland China pigs. This photo was taken on the farm of John L. Naiman, Alexandria, Neb., and the pigs are pure bred. Choice boars and gilts are now for sale from this herd. Parties interested should write at once and mention this paper.

Ask your neighbor to subscribe for The Homestead.

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

CONTRACTS FOR SALE OF FARM PROPERTY

The buying and selling of a farm is an important matter and calls for clear-cut intelligence and the exercise of careful attention to the details of the transaction, but such deals are often made in a loose, vague, indistinct manner, which leads to misunderstanding between the parties, and frequently to expensive litigation. When a sale of land is made the transaction necessarily involves many terms and conditions besides the price, the description of the property, and the names of the parties. For instance, the time when possession is to be given, the condition of the premises when delivered, the time when the price is to be paid, the rate of interest on deferred payments, the nature of the security to be given, and many other things that ought to be definitely agreed upon. The subject of fixtures is a very important one and is nearly always omitted from the contract, and left to make trouble afterwards. There are many things about most farms which are difficult to classify. Some things have the nature of personal property in some respects, but are nevertheless fixtures to land, and go with it to the purchaser in case of sale, where there is no actual agreement to the contrary. Things personal in their nature, but fitted and prepared by the owner of the land to be used with it, and essential to its enjoyment, and having been fixed or attached to it, thereby become fixtures, and pass with the land when it is conveyed to a purchaser, where nothing is said about them in the contract of sale. Such things as buildings, fences, gates doors, windows, sashes, screens, door keys, and the like, are so plainly and clearly fixtures that usually no controversy arises concerning them. There are other things, however, that often cause contention between buyer and seller, such as water tanks and troughs for watering stock, ropes and forks, and hay carriers, hog houses, lumber, rails, stone, feed grinders, telephone instruments, and other appliances used upon farms, which lead to misunderstanding, and it is sometimes a difficult matter to determine whether such things are fixtures belonging to the land, or merely personal property, which the seller has a right to remove or dispose of, when he gives possession of the farm to the purchaser. When such things are not mentioned in the contract of sale the seller usually wants to remove them, and the buyer claims they ought to go with the place as fixtures. Much trouble and litigation could be avoided by parties making certain and definite agreements including all such matters, and putting the same in writing, and then sign it, and each one keep a copy for reference. Such a course would leave little room for bad memories and convenient forgetfulness.

Many persons believe that a bargain for the sale of real estate, if made verbally in the presence of witnesses, who will, if necessary, swear to the agreement of the parties, is a lawful and binding contract, and can be enforced by a suit in court. This is not the case. The law provides that a contract for the sale of real estate, or any interest therein, cannot be enforced at law unless the agreement or some memorandum or note thereof, shall be in writing and signed by the party to be charged therewith, or by some other person duly authorized by him to sign it. The object of this provision is to prevent fraud and perjury by fixing in somewhat permanent form the terms and conditions of the contract between the parties. Where a person makes a written contract with the owner of land, for the purchase of it, and the owner refuses to comply with the contract, a court of equity will usually grant relief, and render a decree compelling the seller to comply with his contract and convey the land to the purchaser. When a buyer refuses to comply with such a contract he is liable to the owner for damages.

LAW QUESTIONS CONSIDERED.

VACATION OF PUBLIC ROAD.

A Subscriber, Corning, Iowa.—From fifteen to seventeen years ago a public road was laid out through the center of a section of land, and some county work was done on a portion of it. It is not a school road. The ground is rough and not a single team has ever passed over it. The work that was done has been washed away. Is said road vacated by the statute of limitations and if not, by what means can it be vacated?

Answer.—If the owner of the land has fenced in the road, and used it for more than ten years, he has a right to claim it by adverse possession, but if he has not done this, he will have to file a petition for the vacation of the road in the county auditor's office and proceed in the same way he would do if seeking to have a new road established by the board of supervisors.

CONSTRUCTION OF RENTAL CONTRACT.

A Subscriber, Titonka, Iowa.—A rented his farm to B for cash by a written lease duly signed by both parties, and A paid the rent in full. After A moved off the farm B demanded rent for a telephone which was on the place during the time of B's term as tenant. There was no agreement between them as to extra pay for the telephone. Can B recover from A extra pay for the telephone?

Answer.—He cannot. The use of the telephone was included by implication in the written lease of the farm.

DRAINAGE OF SLOUGHS.

A Subscriber, Clutier, Iowa.—I have a big slough on my farm which is all tile drained. A neighbor who owns adjoining land has a slough on it which he has not tiled and water from it runs over my tiled land and withers grass and grain growing thereon, for an area of forty yards square or more. Can I compel my neighbor to tile drain his slough or take any other course to remedy the matter?

Answer.—You cannot compel your neighbor to tile drain his slough. Your only remedy, if any, seems to be to have a drainage district established which will include your neighbor's land.

LIEN FOR STALLION SERVICE CHARGES.

A Subscriber, Dow City, Iowa.—(1) A bought from B a mare with foal and nothing was said at the time about who should pay for the colt. C, who is the owner of the stallion, wants A to pay for the colt. Can C recover the service fee of the stallion from A? (2) Is a service fee lien good after the mare has changed hands when no agreement has been made about it before the change was made?

Answer.—If C complied with the law about advertising his stallion for public service he has a lien on the colt foaled by the mare for six months after the birth of the colt, and within that time he may place in the hands of a constable an affidavit containing a description of the stallion and of the mare, and the time and place of service, and then the constable must take possession of the colt and sell it at public sale giving ten days' notice, and out of the proceeds pay costs and the service fee, returning balance to owner. (2) A service fee lien is good after the mare changes hands, though no agreement is made by the parties.

POSSESSION UNDER LEASE.

Mr. J. P. Anderson, Anamosa, Iowa.—About twelve years ago I bought my farm of sixty-seven acres, more or less, and paid cash therefor. I got a warranty deed and abstract of title. Afterwards I learned that a strip occupied by a lane and a slaughter house yard was on my land. The party claiming the strip has no deed to it, and no deed to it was ever made by any former owner, but the party claiming the strip claims to hold by an old lease of it made twenty-five years ago. The then owner of the farm sold it, giving a warranty deed and making no reservation of said strip and the farm has passed through several hands since then. Can I recover possession of said strip by law?

Answer.—Unless the lease mentioned is valid and still in force you can recover possession of the strip by law. It is not at all likely that a lease made twenty-five years ago is still in force. It probably was made for a short time and expired many years ago. Possession of the strip for twenty-five years by parties claiming under a lease would not give them title by adverse possession, and they would have only such rights as the lease actually gave them.

TIMBER LAND—FENCES—WILLS.

A Subscriber, Glenwood, Iowa.—(1) A owns a tract of land a quarter of a mile from the public road which he uses for timber only. B owns land on three sides of it, which he uses for farming and pasture. C owns land on the fourth side of A's land, which he uses for timber only. A has to drive along the fence on B's land to reach his land, and has been doing so for twenty-five years. Can B prevent him from doing so? (2) Can B compel A to construct a hog-tight fence on the three sides of A's timber land? (3) Last summer B took down his wire fence in one place so his stock could get in A's timber for pasture and A drove the stock back and nailed up the wires. Can A recover damages from B? (4) A farmer died several years ago, leaving a will by which he gave his wife all his personal property and a life interest in his real property, the real property at her death to go to their son, the farmer having no other heirs. The will was set aside and the widow took the personal property, and the real property was divided equally between the widow and the son. The widow has several brothers and sisters. Can she will all her property to them, leaving none of it to her son? (5) What is the usual fee of attorneys for breaking a will?

Answer.—(1) B can prevent A from driving over his land. The proper course for A is to buy or condemn a right of way over B's land for a private road. (2) He cannot. The owner of timber land used only for the timber thereon is not required by law to fence it. (3) A cannot recover damages from B. (4) The widow can will all her property to her brothers and sisters and disinherit her son, and such will cannot be set aside for that reason. (5) There is no usual or uniform fee. It would depend upon the circumstances of the case, the amount of property involved, etc.

MAKING A WILL—MINOR AS EXECUTOR.

A Subscriber, Elk Point, S. D.—(1) I am a widower and I wish to make a will providing that none of my real estate shall be sold until my minor children shall attain the age of eighteen years and six months. Would such a will be lawful? (2) I wish to appoint one of my minor children as executor of my will. If I should die before he becomes of age could he act as such executor?

Answer.—(1) Such a will would be lawful. It would be prudent to have a reliable lawyer draw the will. (2) Your minor child would not be eligible as executor of your will, that is, he could not qualify and act as executor while he is a minor, but if you should now name him in your will as executor thereof and he should be of age when you die, he could act as executor.

DESTROYING THE GRASSHOPPERS.

The grasshoppers are coming. Some of them are already at work. Fully 90 per cent of the eggs laid last fall probably passed through the winter uninjured, according to George A. Dean, the bug expert at the Kansas Agricultural College. Professor Dean says grasshoppers probably will do more damage this year than in 1912 unless prompt and vigorous work is done to destroy them. Poison bran mash, the hopperdozer, poultry and young hogs have proved efficient for checking the ravages of grasshoppers.

Poison bran mash should be made this way: Bran, twenty pounds; Paris green or white arsenic, one pound; sirup, two quarts, oranges or lemons, three; water, three and one-half gallons.

In preparing the bran mash, mix the bran and Paris green or white arsenic thoroughly in a wash tub while dry. Squeeze the juice of the oranges or lemons into the water and chop the remaining pulp and the peel to fine bits and add them to the water. Dissolve the sirup in the water and wet the bran and poison with the mixture, stirring at the same time so as to dampen the mash thoroughly. The bait when flavored with oranges or lemons was found to be not only more attractive, but was more appetizing and thus was eaten by more of the grasshoppers.

The damp mash or bait should be sown broadcast in the infested areas early in the morning. The amount of bait made by using the quantities or ingredients given in the formula should cover four or five acres. As very little of the bran mash is eaten after it becomes dry, scattering it broadcast in the morning, and very thinly, places it where the largest number will find it in the shortest time. Sowing it in this manner also makes it impossible for birds, barnyard fowls or live stock to get enough to kill them.

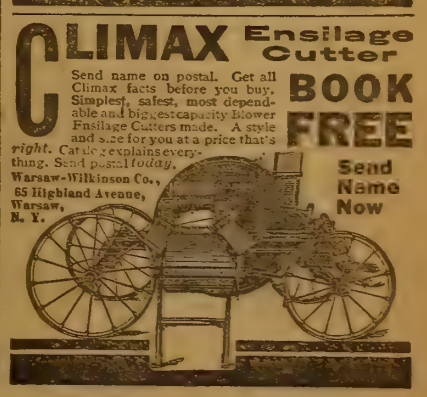
On alfalfa fields, to get the best results, the bait should be applied after a crop has been removed and before the new crop has started. As the poisoned bait does not act quickly, it will be from two to four days before the grasshoppers are found dead and these will be numerous in the sheltered places. It does not take much poison to kill them. Even a small part from one of the poisoned flakes will be sufficient to cause death.

Coal oil has been used in many ways for the destruction of grasshoppers, but is most commonly used in the hopperdozer, a device which consist of a long, shallow, galvanized iron pan, mounted on very low runners. The hopperdozer is very effective where it can be drawn over an infested area near the surface of the ground. It is necessary wherever grasshopers become destructive.

On infested bare areas or fields where it does not injure the crop, grasshopper damage can be quickly checked by its use. It can be used without injury in an alfalfa field for two or three weeks after a crop has been cut.

Any grade of kerosene may be used in the hopperdozer. The first cost of a hopperdozer should not be more than $8. It should be operated at a cost not to exceed twenty cents an acre.

The annual corn crop of this country amounts to two billion seven hundred million bushels. Of this two hundred and forty-five million bushels are used as human food, forty million bushels are made into starch and glucose, thirty-five millions into malt and distilled liquors, one hundred and twenty millions for feed in towns, and forty-five millions are exported to other countries. More than two billion bushels do not leave the farm at all.



DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

July 29-30, D. R. Hanna, Chicago, Ill.
Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Oct. 22, O. Harris & Sons, Harris, Mo.
Oct. 24, Leigh & George, Aurora, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 24, J. B. Ashly, Audubon, Iowa.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22. Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 15, Escher & Ryan, Botna, Ia.

Percheron Horses.

Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Poland China Swine.

Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 12, J. G. Hutchinson, Crete, Neb.
Aug. 13, Pfander & Sons, Clarinda, Ia.
Aug. 19, Alvin Windom, Nodaway, Iowa.
Aug. 20, Williams Bros., Villisca, Ia.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 16, Fred Sievers, Audubon, Iowa.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Sept. 24, E. W. Kreischer, Mt. Vernon, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, A. Kool, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Frank Pelzer, Marne, Iowa, sale at Atlantic, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Powers, Aurora, Neb.
Oct. 13, Frank Roberts, Earlham, Iowa.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilliker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Nov. 8, J. L. Naiman, Alexandria, Neb., at Hebron, Neb.
Nov. 13, John S. Barnard, Nelson, Neb.
Nov. 12, E. V. Waugh, Greeley Center, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 18, Bloemendaal & Korver Bros., Alton, Iowa.
Feb. 24, R. R. Blake, Dallas Center, Ia.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 26, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 8, Wm. Reed, Rose Hill, Iowa.
Oct. 9, H. W. Lineweaver, So. English, Iowa.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 3, A. C. Mills, Spencer, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

A dark-gray four-year-old Percheron mare is described and priced on page 23 of this issue. Further particulars in regard to this animal may be had by writing Amos Hanson, Collins, Iowa.

S. J. Butts, a well-known breeder of Duroc Jersey hogs, Mason City, Iowa, advises us that he has nothing whatever to dispose of at the present time and will not have until he makes later announcements in the fall.

G. H. Tutt, Marathon, Iowa, advertises two splendid Chester White herd boars for sale that are bred right and are good individuals and good breeding boars. He also has about forty good spring boars that he is booking orders for at any time. If you want one of these herd boars or a good spring boar you had better write Mr. Tutt at once. See page 20.

October 25th McClelland & Pfander, will make their annual fall sale of Duroc Jersey boars and sows at Clarinda, Iowa. These gentlemen have a good string of spring pigs sired by Golden Col., a son of the great Chief's Col., that now heads their herd. This is a large hog and has been giving excellent satisfaction as a breeding boar in their herd. They also have litters by Crimson Climax, Critic B., Big Col., Crimson Col. and Valley King 3d. If everything goes well with these gentlemen they will have a good offering for their sale this fall.

Earl Bloom, Bridgewater, Iowa, writing with reference to his Shropshire sheep advertisement, which appears on page 21 of this issue, says: "I am closing out my herd, as I have other business that takes my time and I cannot get help to take care of them. I have both imported and home-bred, all record stuff. They are big, heavy-boned, well-wooled and good mutton type. I have spent a lot of money to build my flock up, but must close them out and offer them for sale with regret. I will make prices on my choice ewes at about one-half what I gave for them. Will sell by the head or let the whole flock go in bunch. Seventy-five per cent of my ewes raise twin lambs. I recently sold a choice buck and three ewes to a Springfield, Ohio, man to start a flock with at from $30 to $40 each. Have more just like them, and better, that I will take $10 to $30 each for."

Gates' Spotted Polands.

J. D. Gates, Ravenwood, M., the breeder of old-fashioned spotted Poland China hogs, has bred the big-type Poland for over twenty years and his spotted ones are hogs he has developed from the original stock as bred when Poland China breeders did not discard a good one because of an extra white spot or two. Mr. Gates has 150 spring pigs for the trade and he prices them worth the money. Note his advertisement on page 22 and when writing him kindly mention this paper.

Satre's Chester White Hogs.

G. O. Satre, Jewell, Iowa, has an excellent herd of Chester White hogs which are advertised on page 20 of this paper. This gentleman has at present for sale quite a number of high-class sows that are to farrow soon, and in order to get them out of the way quickly he is making some remarkably low prices. These sows have been well raised. They come from strictly good foundation stock and are of the sort that cannot fail to make money for any buyer. Write quick for prices and descriptions. Address G. O. Satre, Jewel, Iowa, mentioning The Homestead when you do so.

Col. Sensation 98291.

One of the largest Duroc Jersey boars that has ever been seen at the Iowa State Fair will be shown this fall by J. B. Ashby, Audubon, Iowa. When it comes to a large-type Duroc Jersey boar the breeders will all have to take off their hats to this hog. He is a son of that noted breeding boar, King The Col., and is therefore a half brother to Col. Gano. His dam is Violet Beauty Pride by old Winning Sensation, a boar that for years stood at the head of the Jim Williams herd at Marcus, Iowa. Col. Sensation was weighed by M. T. White, of The Homestead, on July 8th and he tipped the scales at 995 pounds. With forty days ahead of him before the fair he can easily be made to weigh from 1,050 to 1,100 pounds. He is not only a large boar, but he is a smooth boar for a hog of his size. He is a good hammed hog, has a splendid back, a leg under each corner and he is well balanced from end to end. This boar has been gaining at the rate of four pounds a day for some time and he could very easily go into the show weighing considerably over 1,000 pounds. The get of this boar has been extremely large and as the Duroc Jersey world just now is seeking the larger-type kind they will therefore be interested in seeing this boar at the Iowa State Fair this fall. Just remember when you go there this fall to look for Col. Sensation and you will say he is one of the largest and smoothest big-type Duroc Jersey boars you ever saw. If you are bound to see him before that time you will have to go to Mr. Ashby's farm where the hog can be seen at any time. See advertisement on page 21.

Duroc Jersey Fall Boars.

Anybody wanting a good fall boar should write G. C. Everts, Audubon, Iowa. He has twenty head, all sired by Golden Model 3d and he is pricing these at the low figure of $25 to $50 just to move them rapidly. He has some splendid boars among the bunch. Write him about these at once and mention The Homestead.

W. J. Hather's Poland Chinas.

W. J. Hather, Ord, Neb., maintains not only one of the largest, but one of the real good herds of Poland Chinas of the country. This herd has been drawn upon for much of the good breeding stuff of the country, and today is in better shape if possible than it has been at any previous time. The best aged show boar that we have seen to date, in the opinion of the writer, is on this farm. He is Hadley Over. He was placed second at Nebraska as a junior yearling, and was first and reserve champion at the International. This boar will weigh 900 or better by fair time and is as smooth as the best of them. If he does well from now on it will be a good boar that beats this fellow this fall. A grand lot of young stuff is on the farm and good boars and sows will be for sale from now on. A few good sows bred for fall litters will be shipped any time. Parties in need of something of this sort will do well to write at once and when doing so, kindly mention The Homestead.

C. H. Gausman's Hampshires.

One of the new herds of Hampshires of the state, and one that bids fair to be among the leaders, is the herd owned by C. H. Gausman, Seward, Neb. Mr. Gausman has been breeding Hampshires for the past two or three years, and today has a really nice lot of stuff. He has some very good boars on the farm, especially a yearling and the early spring pigs. This yearling boar is from the Jones herd, Beaver Crossing, and has sired good stuff for Mr. Gausman. He is now for sale and priced well worth the money. He is King of Beaver, by Duke of Walnut, and out of Topsy by A. D.'s Fancy. Some of the yearling sows are sired by a son of King of Geneva, a boar bred by Mr. Tatro, and his dam is Kate Good by Majestic Boy. Those that have the time to visit Mr. Gausman will be well repaid for their time, and those that cannot visit this herd can easily purchase what they wish by mail. This yearling boar is priced to sell, and we believe is cheap. Better write about him at once.

E. V. Waugh's Polands.

Among the good stockmen at Greeley Center, Neb., we wish to mention E. V. Waugh. His Poland China herd is one that has attracted considerable attention, and one that has produced a lot of good breeding stock. This is one of the oldest herds in the country, having been maintained for a score of years or more. Just now Mr. Waugh has a farm right at the edge of Greeley Center and is better fixed to take care of his trade than he was several years ago when he was a long way from town. The present herd is headed by Victor's Wonder by the well-known Big Victor and he is out of Lady Wonder's Best. This great sow was the top of Lonergan's sale a couple of years ago and was purchased by Henry Wissel, Roca, Neb. Mr. Wissel also has a boar of this mating and he is mighty choice. Mr. Waugh's boar will be as big as there is any need of, in fact, he is going to be extra big, and yet he is siring a good lot of pigs. Mr. Waugh plans on making a sale on November 12th, at which time he will sell all of his boars and enough of the good gilts to make a good offering. Keep the herd in mind and watch The Homestead for further announcements, which will appear in due time.

James' Special Bargains.

Poland China breeders who want to get in on the ground floor and want to buy a good pig should read the advertisement of J. O. James, Braddyville, Iowa, on page 22. He will not make a fall sale and he is therefore closing out his pigs at private treaty and has a few very choice things left. He has a splendid fall boar sired by Big Orange and out of Anna Price 13th, that is a good proposition to buy for a herd boar. He is smooth and will make a 900 to 1,000-pound boar when matured. He is a full brother to the Elijah Story boar and also the Ott's Big Orange and the Tom Walker boar. Then comes three corking spring boars sired by Big Orange and out of Ott's Choice, one of the most famous brood sows in his herd. These pigs are good enough to head any herd in the land and the first breeder that sends his check for $50 gets one of them. These are full brothers to the Gutshall boar, Orange Jumbo, that is regarded as so good over East. Two more good boars by Ott's Big Orange are out of May King 2d, a granddaughter of Long King and these are very choice. A check for $50 takes any one of these and they will be great bargains to the man who is going to want a boar this fall. These pigs will weigh 160 to 175 pounds and they are not fat. He also has two by A Wonder's Giant and out of a Big Orange sow that are very good. If you want a bargain in a boar that will make a reputation for your herd just order one of these boar pigs. He also offers to sell six two-year-old sows that are all tried and proven brood sows and these are bred to Big Orange, also five good Big Orange yearlings that are bred to A Wonder's Giant and he makes a splendid cross with Big Orange sows. These sows will make 700 to 750-pound sows when matured and will be smooth and easy feeders. The man that sends an order for one of these boar pigs now will be away ahead of the game when the breeding season rolls around, so we will therefore say to The Homestead readers to order one of these boars or some of these sows right away. When writing him kindly mention The Homestead.

Fesenmeyer's Great Sale.

One of the greatest midsummer sales of big-type Poland Chinas that will be held in the near future will be that of Henry Fesenmeyer, Clarinda, Iowa, on August 12th. The Fesenmeyer herd has been noted from one end of this country to the other, largely through old A Wonder, that sensational breeding boar at the head of his herd. When it is all said and done old A Wonder must be regarded as one of the greatest of all the large-type boars living or dead and Henry is going to sell some splendid boars by him in this sale. He will also sell some excellent boars and sows by Big Ben, another great boar in his herd, and he is selling some of the best yearling sows you ever saw sired by Big Ben and bred to old A Wonder in this sale. In fact, he has a great line up in this offering that he is going to sell on August 12th. Write him for a copy of his catalog at once and kindly mention this paper.

Young's Chester White Sale.

It will no doubt be a surprise to breeders of Chester White hogs to learn that M. W. Young, Ankeny, Iowa, has decided to make a dispersion of his herd on October 14th. From present prospects, as seen by a representative of this paper, who visited the herd last week, the sale will include animals that will be creditable to any herd. The head of the herd is St. John, a big, square, blocky, broad-backed hog, that was grand champion at the Wisconsin, Illinois and Minnesota State Fairs, at the last of which he was also in competition with the hog that won first and championship at the Iowa fair. The brood sows of the herd are daughters of Combination, O. K.'s Prince and College Teddy, all of which are well known to those who have kept posted on show-yard records. Each has been prominent not only in the show ring, but of the breeding yard as well. These brood sows will go into the sale. There are also many fall sows and boars, the get of New Hampton Regulator, an animal of the most promising ancestry and that was also a prize winner. The spring pigs are the get of St. John above mentioned. In a later issue of this paper details will be given concerning the sale. In the meantime, however, it would be well for those who expect to buy good stock this fall to keep the sale in mind.

Will Bornemeier's Durocs.

The writer recently called on Will Bornemeier, Elmwood, Neb., and we wish to report a good bunch of Durocs. Mr. Bornemeier has been buying good stock for several years and as he is a good stockman, they have done well in his hands. His foundation material has been drawn from good herds, and with the care they have had have fully demonstrated that blood will tell if it has a chance. There is a nice crop of pigs this year and they are nearly all the get of Model Wonder by Crimson Model by C. W. Again. The dam of Model Wonder is a daughter of the great Lincoln Wonder. It is no surprise that a boar of such breeding should prove a good sire, for he could not well do otherwise. The sow herd is of especially good lines to mate with the Crimson Wonder strain of stuff, being of Proud Advance breeding. Three sows are daughters of Miss McCarthy by Mc's Improver by Improver 3d and they are sired by Proud Improver by Proud Advance. This line of stuff has mated exceptionally well with Crimson Wonder families. One litter is sired by the famous state fair winner last year, Wilde's Wonder, by Uneeda Crimson Wonder and they are from a daughter of Crimson Wonder Boy by A Crimson Wonder. This young sow was one of the good ones of the David Boesiger sale. There are some very good prospects in this litter, and as these boars will be sold privately, we believe that it would be a good plan to write early for one of these boars. Mention The Homestead when doing so.

Hutchinson's Poland China Sale.

On August 12th, J. G. Hutchinson, Crete, Neb., will sell practically all of his spring crop of Poland China pigs and also a few sows that are bred for fall litters. These pigs comprise one of the very best lots of spring pigs that the writer has seen to date. They are the big, smooth ones and in splendid condition. They are sired by one of the very best boars that Walker & Son, Alexandria, Neb., have produced in a long time. He is a son of Blue Valley by the great Blue Valley Quality and out of Blue Valley Beauty 3d, one of the best producers of the Walker herd. The dams of these spring pigs are by Big Tecumseh, King Mastiff, Growthy King by Long King, and a few others that are extra good. We do not know of a herd for its size that surpasses the herd owned by Mr. Hutchinson. He has employed good breeding stock and he is a good caretaker. These gilts and boars that will go in this sale are real breeders' material, and certainly should go to them. These gilts will be ideal for those that need a few brood sows for another year, or to fill out either a later fall sale or a winter sale. They are the sort both from the standpoint of breeding and individual excellence that will make the breeder money that invests in them and they will add prestige to almost any sale into which they may go. The boars are an equally good lot, and our advice to breeders living long distances would be to buy one of these boars. The express charges will be little and these boars will probably be bought for less money than they will be later on. Write Mr. Hutchinson today and ask him to send you a catalog of this offering, and plan

to be on hand sale day, but if that is impossible, send some bids, for this stuff is the right kind. Mention The Homestead when you write.

Williams Bros.' Poland Chinas.

On October 10th at Villisca, Iowa, Williams Bros. will make their annual fall sale of fifty head of Poland China boars and sows. These breeders had 300 head of spring pigs on their place this summer and they expect to select the tops only for this sale. These will be sired by Big Sampson, the great and only Pawnee Nelson, Wonder's Big Prospect and A Jumbo. They have a grand good lot of spring boars and spring gilts on hand and they could sell a few of these at any time. They will ship two for $50 or three for $75, if you will order them shipped right away. This offer does not hold good for all time, as they must be ordered at once. They will fill this order with pigs not related. They have one of the best herds in southwestern Iowa, and the man that is looking for both size and quality will be extremely well pleased. Don't overlook the opportunity to buy these pigs, but write them right away. Kindly mention this paper when corresponding with them.

Pelzer's Big Polands.

On October 11th, Frank Pelzer, Marne, Iowa, will make his annual fall sale of large-type Poland Chinas and he intends to hold this sale at Atlantic, Iowa. He has seventy-five head of spring pigs and he has a lot of good ones. He is a breeder and a hogman and he generally has them in such a condition as makes them nice to look at. They are strictly growthy and when sale time comes around you will see a grand good lot of pigs in his offering. Mr. Pelzer owns that splendid young boar, Orange A., that was one of the very best boars sold by J. O. James last fall. He is a son of the noted boar, Big Orange, and he is going to be as large as the law will allow and that means that he will closely push the 1,000-pound mark when matured. He has thirty-five head of fall boars and there are a lot of extra good ones in this bunch. These are all sired by Tom Keene, a son of the Nebraska State Fair first-prize boar, Big Tom. He might be induced to part with one of these fall boars at any time, as he will have plenty left for his fall sale. If you will only call and see him he will make the price right on anything you want. When you write him kindly mention The Homestead.

Fred Sievers' Big Wonders.

When it comes to seeing a splendid lot of big-type Poland Chinas the breeders will have to take off their hats to the herd of Fred Sievers, Audubon, Iowa, and when you talk about a big-type Poland China boar then go and feast your eyes on his Big Wonder boar that stands at the head of his herd, and then go and look at his big yearling, Orphan Wonder, the boar that topped the Tim Neuhofel sale last fall. It isn't very often indeed that you will go into one herd and see two such boars as you will see in the Sievers herd. Then when you look over his sows you will say he has sows of the same high class and then you will see a reason why he has a most excellent lot of pigs on his place. He certainly has a grand lot of spring pigs, and they are large, stretchy and of the big-boned kind that they are all after. The boar, Big Wonder, won second place at the Iowa State fair last fall and was not fitted, and he was one of the greatest attractions in the large-type boars at that great show. Breeders all remember him and he has been one of the most widely talked of boars in the West since that time. Mr. Sievers will make a public sale on September 16th, and he will have a great line up for this sale. Drop him a card and have him place your name on his list for a catalog. Please mention The Homestead when writing him.

Hanna's Short-horn Dispersion.

The dispersion of D. R. Hanna's Cottage Hill herd of Short-horns at Chicago, Ill., July 29th and 30th, will mark the passing of one of the leading herds of the country. Neither time nor expense was spared in the founding of the herd, the best Short-horns to be found on either side of the water being secured in abundance and valuable additions have been made from time to time, until today it is one of the great breeding herds of the country. The blood of the greatest sires known to the breed is found in abundance in this herd, and among the 125 head of cattle listed for the dispersion sale there is not one animal that does not possess a straight Scotch pedigree. Under the skillful management of John Garden this herd has been brought to a high state of producing efficiency and not in years has such an opportunity to procure high-class Short-horns at public sale been presented. It is impossible to particularize concerning this lot of cattle. Among the 125 head to be sold will be found animals to meet every want, and no reader of The Homestead in the market for Short-horns can afford to miss this sale. The bull portion of the offering is remarkable in every way. It includes Imp. Villager, everywhere recognized as one of the greatest Short-horn sires of the present day, his sons, Village Denmark and Village King, both little short of sensational. In fact, the writer considers Village Denmark one of the greatest prospects in the country for grand champion bull at this year's shows. He never was in better form than now. There is also Champion of Scotland, an outstanding good one and choicely bred that was imported this summer by Mr. Hanna especialy to use upon his Villager heifers. There are also three young sons and grandsons of Villager. The female list includes thirty daughters of Villager. Never again will the opportunity be offered to secure so much of the blood of this prepotent sire and the chance should not be overlooked. Breeders will find this a rare place to secure cattle to strengthen their herds and the beginner looking for the very best of foundation stock should congratulate himself that he will be afforded an opportunity to make selections from so well bred a herd. Every Short-horn breeder should be interested in this sale, the attendance should be large and the bidding liberal. Write today for the catalog to John Garden, manager, Ravenna, Ohio, mentioning The Homestead. The advertisement appears on page 20.

J. J. Beehrle's Durocs.

While at Ord, Neb., a short time ago the writer called on J. J. Beehrlee of that place and found his Duroc Jersey herd in better shape than it has been for the past couple of years. Mr. Beehrle has a good herd of stuff, of good breeding and well grown. A couple of years ago, he owned one of the extra good boars of that time to be found anywhere. He was Custer Ohio Chief, and as an individual as well as a breeder he was in the front rank. A number of sows of his get are still on the farm, and producing some of the very best of the herd today. The foundation sows that were in use when Custer Ohio Chief was in service were of Orion and Kant Be Beat breeding. The present stock is descended from this line of breeding, and comes through such sires as Echo Wilkes, Custer Ohio Chief's Favorite and Fancy Chief. Fancy Chief is in service today. He is sired by Crimson Chief. He is a yearling of the right sort, big and smooth. His pigs are a uniform lot, and there is no question but that there will be many high-class boars to be offered from this herd later on. There are a couple of fall boars on hand, sired by Royal Chief. These boars are extra big, and one of them extra good. Readers of The Homestead in search of a big, strong, smooth boar will do well to buy this fellow. Keep Mr. Beehrle's herd in mind, and watch The Homestead for further announcements.

Henry Wissel's Poland Chinas.

A few years ago, Henry Wissel, Roca, Neb., began buying some good Poland Chinas. He soon became convinced that nothing short of the best would please him, and accordingly visited many of the good herds of the country, and taking home some of their tops. Later he topped some of the best sales, buying the top sow, and the noted producer, Lady Wonder's Best, in the Lonergan sale a couple of years ago. Afterward he made good purchases in the Walker & Son's sale and those of other well-known breeders. Last fall at the Nebraska State Fair he purchased the first-prize junior yearling boar. He was shown by Mr. Stout, Beatrice, Neb., and was considered the best fitted hog on the fair grounds and was unquestionably one of the best show propositions that has ever been on the Nebraska fair grounds. Some spring pigs are by this boar, but the most of the spring pigs are by Jumbo Wonder. This boar is by Big Victor and out of Lady Wonder's Best. He is one of the biggest yearlings that we have seen to date, and has every appearance of making an extra big boar at maturity. E. V. Waugh, Greeley Center, Neb., has a litter brother to this boar, having purchased him of Mr. Wissel at the fair last season and he is also an extra big one. Mr. Wissel has one yearling sow out of this litter that is certainly very fine. The spring boars will be for sale at private treaty, and will be priced from this date on. Kindly write Mr. Wissel if interested and mention The Homestead when doing so.

Lawson Offers Great Bargains.

We want to call special attention to readers of this paper who are going to want a big-type Poland China boar to the advertisement of John B. Lawson, Clarinda, Iowa, on page 22. The boar that made the reputation of the Lawson herd is Ling King's Equal, a hog that will weigh 1,000 pounds, and he was the best son of old Long King. As a breeding boar he has no superior in the West, or in fact, any place else, and today some of the best herd boars in this country are sired by him. Not only is this hog the sire of some of the greatest herd boars, but he is also the sire of some of the best big-type sows living. He is the sire of that sensational big-type sow, Mammoth Giantess Lady in the Pfander herd, and she in turn is the dam of the sensational young boar, King of Wonders, that has made such a great hit in the Pfander herd. We just simply call attention to these to show our readers that all of the best breeders have been eager to get the get of this great breeding boar, and the breeder who has a boar or some sows sired by him in his herd is indeed very fortunate. Mr. Lawson is just now offering some splendid boar pigs by this hog and as he will not make a sale this fall he is therefore selling them out at private treaty. We have seen these pigs and we will say that he has some extra good ones, and the man that sends him an order for one of these now will not only get a bargain, but he will get him for less than half what he would have to pay for the same kind of a pig this fall. These are out of sows that will weigh 600 and 700 pounds, and they are certainly good ones. No less a person than Tom Shattuck, Hastings, Neb., one of the most noted breeders in the West, after having visited dozens of herds, went to John Lawson's and selected a pig by Long King's Equal and he has a litter brother of this pig that is about as good. He also has some splendid boars by A Wonder's Jumbo, one of the best living sons of old A Wonder and some of these are out of Long King's Equal dams. He also offers some splendid young sows for sale bred to these two splendid boars for fall litters, and anybody that sends him an order for one of these will make good on them, because the get of these two hogs is always in demand. Take our word for it and send John Lawson an order for one of these good boars or for a bred sow and we will guarantee you will be pleased with your investment. Write him right away and kindly mention this paper.

JULY PREPARATION FOR THE WINDOW GARDEN.

To the Editor of The Homestead:

If you wish your windows to be a mass of bloom this winter you must begin now to prepare for it. A variety of kinds and colors make your collection the more interesting and can be provided as easily as a window full of geraniums.

If your callas, cyclamen and amaryllis have not been set aside to rest, do not delay longer. June is the proper month to do this, but they can have a good rest yet. Put the callas and cyclamen outdoors in a shady, protected place, turning the calla pots on their sides. The amaryllis can be kept anywhere, but no water should be given it until quite dry, and then only enough to keep the foliage from dying off. The outside leaves may turn yellow at the tips without harm. The more complete the rest, the sooner and stronger it will bloom. These bulbs can be made to bloom twice a year if rested after each blooming period, and they will seldom bloom at all or but weakly unless given a rest. I have had people tell me they had thrown away their bulbs because they had never bloomed. Sometimes this is because they buy small plants, or bulblets just started, which some mail order houses sell, but which will not grow to blooming size for several years. I would not purchase an amaryllis bulb less than an inch and a half in diameter.

Freesia bulbs can often be obtained this month and they should be planted as soon as they are at hand, and the pots set somewhere in the open where they can have attention, for they will have to be watered freely and regularly. The open air makes the plants strong and sturdy, and you will be surprised at the difference it makes in the bloom. For the best effect plant as many bulbs in a pot as you can, having no two nearer than one inch apart.

Geranium cuttings can be taken this month if you want young plants, but if you want the old plants for winter blooming do not slip yet, but keep all buds pinched close. It is supposed your plants are in the open where they will not make a rank soft growth, but should they be shaded to a great extent, and the shoots are long and tender, cut back a branch or two at a time each week until you have it compact, and pinch the tip out of each new shoot when it gets about four inches long, unless it be a branch from the base of the plant, when it should be pinched even with the other branches.

A box of loose soil is the best thing to root your cuttings in, as they can stay in this much longer than in sand. You can put them in the pots you wish them to grow in, but this will cause you additional trouble in caring for them, as they must be kept just wet enough so they will not wilt, and never very moist or they will rot. There is more danger of getting them too wet than too dry, and yet, when watered, the entire mass of soil should be moistened. Usually nature will attend to the watering with a little attention from you if you will set the box in a sheltered place where it will get the morning sun only, and where the wind cannot blow over it. If pots are used, bury them to their rims in the ground, or in a box of soil or sand before setting them outdoors.

You will want to take up your chrysanthemums in August, so it is well to begin to cut the roots around them so they will not wilt so much when they are taken up, and will go on growing with little check. If you are going to pot them in an eight-inch pot take a sharp knife and cut about two and a half inches from the base of the plant on opposite sides so that about three cuttings will make a complete circuit. In a week cut another section and then a week later finish cutting around. Fiber roots will start where the old roots are cut and you can dig a couple of inches outside of where you cut and disturb the root growth but little and the new mass of fiber roots will take hold of your new, rich soil and give splendid results. This same method can be followed in taking up any large plant.

L. H. Cobb.

TOO LATE TO CLASSIFY.

Hampshires—Bred sows $35. Spring pigs with pedigree $12 to $20 per pair. Galloway Farms, Waterloo, Ia.

BIG bargains that won't last long. Chester White hogs, St. Bernard dogs and Angora cats. Special prices 10 days. Howard S. Cooper, R.4, Wellman, Ia.

COST OF DRAGGING ROADS.

At the home farm in southeastern Nebraska there is a stretch of road, a half mile in length, that we have dragged for seven years. Only once during this period has this road been worked with anything but the drag. Two years ago the side ditches were cleaned with the common road grader.

A careful record of the time taken to keep this road dragged has been kept and for the first five years it runs as follows: Two trips for one man and one team requiring one hour's time for a single dragging is the basis taken. The first year we dragged it fifteen times, the second thirteen; the third seventeen, the fourth twelve, and the fifth fourteen times or seventy-one draggings of one hour's time during five years. This at thirty cents an hour for man and team is $4.26 a year for the half mile. For a mile it would be $8.52 annual cost of maintenance. Another road in the immediate vicinity cost less than $10 per mile annually. The soil is not quite as heavy as Red River soil, but the rainfall is a little more than thirty inches. A case is noted in Public Roads Bulletin 48, United States Department of Agriculture, where the cost of similar maintenance of roads in Arkansas was $11 per mile. State Engineer Gerhart, of Kansas, puts the range of cost for dragging at from $4 to $10.

The cost for North Dakota should not be over $10 per mile, while in most cases it would be much less, the cost depending upon the character of the soil, the rainfall, traffic and grade. As an average for all dirt roads I would place the annual cost of maintenance at $7.50 per mile or $460,740 to drag in a satisfactory manner the roads in North Dakota one year.

The total expenditure on public roads of North Dakota outside of towns in 1911 was $691,540. If properly organized and if the people were educated we could properly maintain our earth road with present road fund and have $230,800 left for bridges, new construction, etc.

The question of organization and legal procedure is a most difficult one. I well remember when a youth of fourteen years, merely large enough to drive our team of old steady mares, it was my privilege to work the foad and pay our road tax. This road work was a great delight to me at that time because usually the neighbor boys of my age worked with me with an equally efficient team of old plug horses. We never worked the old horses hard for two reasons: one was, their hide was tough and they wouldn't, and the other, they couldn't work hard if they would. My older brothers could handle a cultivator or a plow, so they worked at home. As I recall the road boss occupied his exalted position on a spring seat in the shade of a large cottonwood the greater share of the time. Nevertheless, we were there on time, unhitched at the proper time and drew the full wage of team and teamster. We didn't believe in it, but others did that way.—[C. F. Chase, professor agricultural engineering, North Dakota Agricultural College.

The assistance given to agriculture by the government of Uruguay is rapidly changing the interior of the country from a pastoral to an agricultural area. The results obtained do not compare favorably with the results in other countries, where the more modern methods have been in use for many years, but the Uruguayan farmers are not discouraged. Government aid is extended in the way of encouraging the planting of artificial forests, colonization, exempting from customs duties agricultural implements and machinery, seeds and binding twine; organizing contests of agricultural motors; creation of the office of agricultural defense and the engagement of experts in a number of branches.

SHORT-HORN EVENT EXTRAORDINARY

CHICAGO, ILLINOIS, JULY 29 AND 30, 1913

Dispersion of D. R. Hanna's Great Herd

125 Head---15 Bulls---All Scotch Bred

Not in recent years has there been a sale of Short-horn cattle where so many strictly high-class animals have been offered as will be presented in this dispersion of the Cottage Hill herd.

110 Scotch Females Will Be Sold, Including 30 Daughters of the Great Villager

Included in this lot of females are daughters of practically every Short-horn sire of note. They represent careful selection from the leading herds. The matter of price has never been considered when buying cattle for the Cottage Hill herd, and as a result the buying public will have an opportunity to make selections from one of the choicest collections of breeding matrons to be found in the country. Every female of breeding age has been served by either imported Villager or his show and breeding sons, Village Denmark and Village King.

15 Bulls Are Listed, 5 of Them Imported

Imported Villager and his sons, Village Denmark and Village King, will be sold, as will also imported Champion of Scotland, recently imported, and three young imported bulls. In addition there will be ten sons and grandsons of the great Villager. The greatest lot of bulls offered in years. Attend this sale. There will be cattle for every want. The catalog will be sent on application. Mention The Homestead and address

JOHN GARDEN, Manager - - - RAVENNA, OHIO

COLS. WOODS, JONES, REPPERT, and ALLEN, Auctioneers

Pfander's Midsummer Sale.

On August 13th, J. W. Pfander & Son, Clarinda, Iowa, will make their great midsummer sale of large-type Poland Chinas and it is conceded by all that they have one of the greatest herds of big Polands in this country. They have a great line up for this sale—a splendid lot of A Wonder fall and spring boars, every one of which is a good one and should be at the head of a good herd. Then there will be a number of great things sired by their other splendid boar, Big Ben, and some by their sensational young boar, King of Wonders. The latter boar is one of the real sensations in big-type Poland China circles, and he is conceded by all to be a good one. There will be fifteen sows in their sale that will be bred to King of Wonders, this 750-pound yearling boar and the breeder who gets one of these sows is going to have something that will help materially to make a reputation for their herd. Without going into details just now we will say that they are going to put up one of the best offerings of large-type Polands that has ever been sold from their herd and this is saying something, because they have had some great offerings before. A catalog will be sent you if you will only drop them a line and kindly mention this paper.

Sells-Swan & Ellis Sale.

One of the midsummer Duroc Jersey sales that is bound to attract attention is that of W. M. Sells and Swan & Ells, Indianola, Iowa, on August 6th. To those breeders who are going to want good herd boars for the coming year and to those who are wanting well-bred sows bred to some of the best herd boars in the West, then we will say get interested in this sale. Among the many good things to be sold in this sale will be eight head of sows bred to I Am A Crimson Wonder 2d, the champion boar at the Sioux City and South Dakota State Fair and one of the greatest breeding boars of all of the younger Crimson Wonder bred hogs. This hog stands at the head of the Swan & Ellis herd, and they will offer eight head bred to him, and Mr. Sells will have four of his best sows in the sale bred to him. Then there will be four boar sin the sale that are sired by Crimson Wonder Again, that sensational grand champion and sire of grand champion boars, and one of the greatest breeding boars of the past decade. Two of these boars are out of that phenomenal brood sow H. A.'s Queen and we candidly and firmly believe that these two are as good, if not better, boars than has ever before been produced by the mating of this famous sire and dam. These are something exceptional to those who are going to need a high-class herd boar the coming fall. There will be two very choice and growthy spring boars in this sale that are sired by I Am A Crimson Wonder 2d and these will be sought after by those who are looking for good spring boars. Two good May boars are sired by Crimson Wonder Again and these are out of Perfection Maid 3d, the dam of the Idaho grand champion boar, These are litter brothers to that boar. There will be four boars in the sale that are sired by Col. Gano and others by Wonder's Chief and L. E.'s Col. There will be three or four fall sows in the sale that are sired by Crimson Wonder Again and out of H. A.'s Queen and these are decidedly high class and are fit to go into any herd in the land. Both of these firms are cataloging some of the best things they have in their herds and you can take our word that there will be some things in this sale that should be sought after by our best breeders. If you want to be sure to get a catalog write either Swan & Ellis or W. M. Sells, Indianola, Iowa, and they will forward it to you just as soon as it is out. When writing them kindly mention The Homestead.

Ashby's Herefords.

One of the largest herds of Herefords today in the state of Iowa is owned by J. B. Ashby, Audubon, and he now has 186 head on hand. His herd is headed by Shadeland Lad 3d, a son of the noted show and breeding bull, Beau Donald 28th. This was one of the highest-priced bulls sold in the West last year. Mr. Ashby has about thirty head of young bulls on hand and a grand good lot of young heifers. He will make a public sale in February or the first of March at which time he will sell one of the best offerings that has been put up at auction in a long time. If any of our readers are interested in Herefords Mr. Ashby will be pleased to have them call and inspect the herd at any time and he will take pleasure in showing them to you.

Missouri Auction School's August Term.

The Missouri Auction School, now located at 1400-1404 Grand Ave., Kansas City, Mo., has issued one of the neatest catalogs that this thriving school has ever published. It is a condensed forty-eight-page booklet made as substitute to the large ninety-six-page catalog. It contains all the desired information regarding the school and the actual practice given each and every student. Colonel Carpenter has now been at the head of this school for eight years and it is his intention to uphold the reputation made in that time for turning out auctioneers ready to enter the field. The faculty that has proven so efficient in the past remains unchanged and those attending the August term will receive the benefit of the very best instructors in each department. Cols. Duncan and Harriman, who devote a part of their time to instructing and lecturing at each term, will devote more of their time to the August term, as this is not their busy season in the field selling for breeders. Those of our readers who are interested should send now for one of the new catalogs of the Missouri Auction School. Note page 21 for the advertisement and when writing for same kindly mention this paper.

CHESTER WHITE SWINE.

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent fall boars, some choice herd headers. Also 50 good spring boars. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - ELLSWORTH, IOWA

Bargains in Chester White Bred Sows

HIGH-CLASS sows bred to farrow soon—right every way—and at low prices to quick buyers. Do not wait. **G. O. SATRE - - - - - JEWELL, IOWA**

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
W. H. DUNBAR, JEFFERSON, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
AMOS TURNER WILBUR, NEB.

O.I.C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. Fred Ruebush, Sciota, Illinois.

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

CHESTER WHITE BOARS FOR SALE

I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

Orme's Prize-Winning Chester Whites I am offering 4 fall boars, 10 fall sows. $25 ea. A.C. Orme, Nodaway, Ia.

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

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COL. SENSATION 98291

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25 DOLLARS EACH

They are sired by Big Expansion (the 800-lb. son of the noted Dorr's Expansion), Big Bone 2nd (weighing 900 actual pounds, a son of Big Bone), Chief Leader (weighing over 500 lbs. at 14 months old), and Ideal Chief, and other noted boars. **The dams are sows weighing from 500-lb. yearlings up to sows of over 800 lbs.** If you are in the market for the biggest blood lines, from big sires and dams, send your check, tell us the kind of pig you want and we will send him or return your money. You will not buy such boars, such breeding, at the price again this year. Buy your boar now and save 20 to 50 dollars on him.

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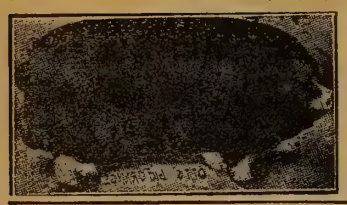

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FOR SALE

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1869 Herd Established 1869 1913

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I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

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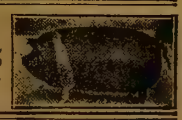

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Pod heifers, and Feb. and Mch. bulls for sale Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

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See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

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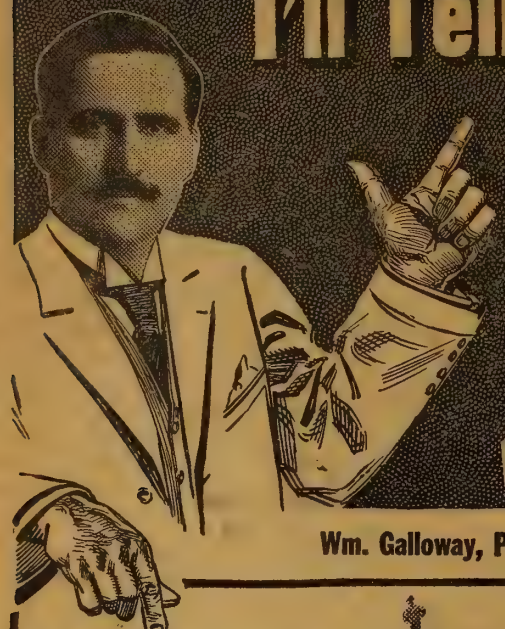

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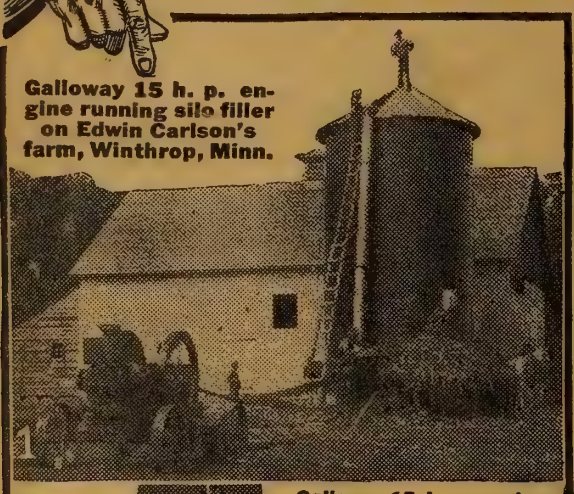
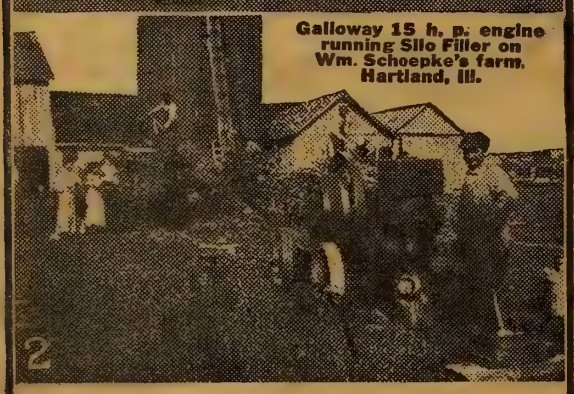


Galloway 15 h. p. engine running silo filler on Edwin Carlson's farm, Winthrop, Minn.

1



Galloway 15 h. p. engine running Silo Filler on Wm. Schoepke's farm, Hartland, Ill.

2

Get a Complete Galloway Silo Filling Outfit and Save Big Money

Remember, I can sell you complete Silo Filling Outfit, Shredder, Big Corn Sheller, Irrigation Pumping Outfit, Corn and Grain Elevator and Dump, and many other big combination outfits—all at money-saving prices. Just write me and tell me what you want and let me quote you the lowest prices ever made on these outfits. Write me without fail today for my complete Silo Filling Outfit. Hundreds in use and all giving complete satisfaction.

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My free Service Department, composed of the best engine experts, will give you all the information you want for the proper installation and use of your engine. They will tell you the best size engine to buy for handling your different machines, size pulleys, etc., and how to equip your engine for doing the best possible work This service costs you nothing, but is worth a great deal to you.

Here's the Real Proof

I just want you to look at these five illustrations here, showing 15 H. P. Galloway Engines at work in different sections of the country, running ensilage cutters and threshing machines. These are only a few of the many views of Galloway Engines at work running different machines, which we have on file. My big Engine Book shows a lot more. Sent FREE.

View No. 1 shows 15 H. P. Galloway Engine filling silo on Edwin Carlson's farm at Winthrop, Minn. Notice how smooth the engine is running in picture and without any attention. No. 2 shows a 15 H. P. Engine running a 20 inch cutter filling 16x32 silo on farm of Wm. Schoepke, Hartland, Ill. Mr. Schoepke said it took them only twelve hours, refilling and all, and that he filled four silos last fall. He paid for his engine the first year doing work for his neighbors at $10 to $15 a day. Good money to be made with a Galloway Heavy Duty Engine everywhere.

View No. 3 shows a complete Galloway Silo Filling Outfit on Mr. Galloway's own farm at Waterloo filling two twin hollow-block silos, each 50 feet high. How's that for silo filling? The pipe is 54 feet long. No. 4 shows Galloway 10 H.P. Engine running threshing machine on Walter J. Anderson's farm, Newman Grove, Neb. Mr. Anderson says, "I put it to hard work and it did fine. I had two other kinds but yours beat them." No. 5 shows a 15 H. P. Galloway Engine running threshing machine on W. H. Stuckmeier's farm near Waverly, Iowa.

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15 Galloway Station 555 **WATERLOO, IOWA**

3

Galloway 10 h. p. Engine Running Threshing Machine on W. J. Anderson's Farm, Newman Grove, Nebr.

4

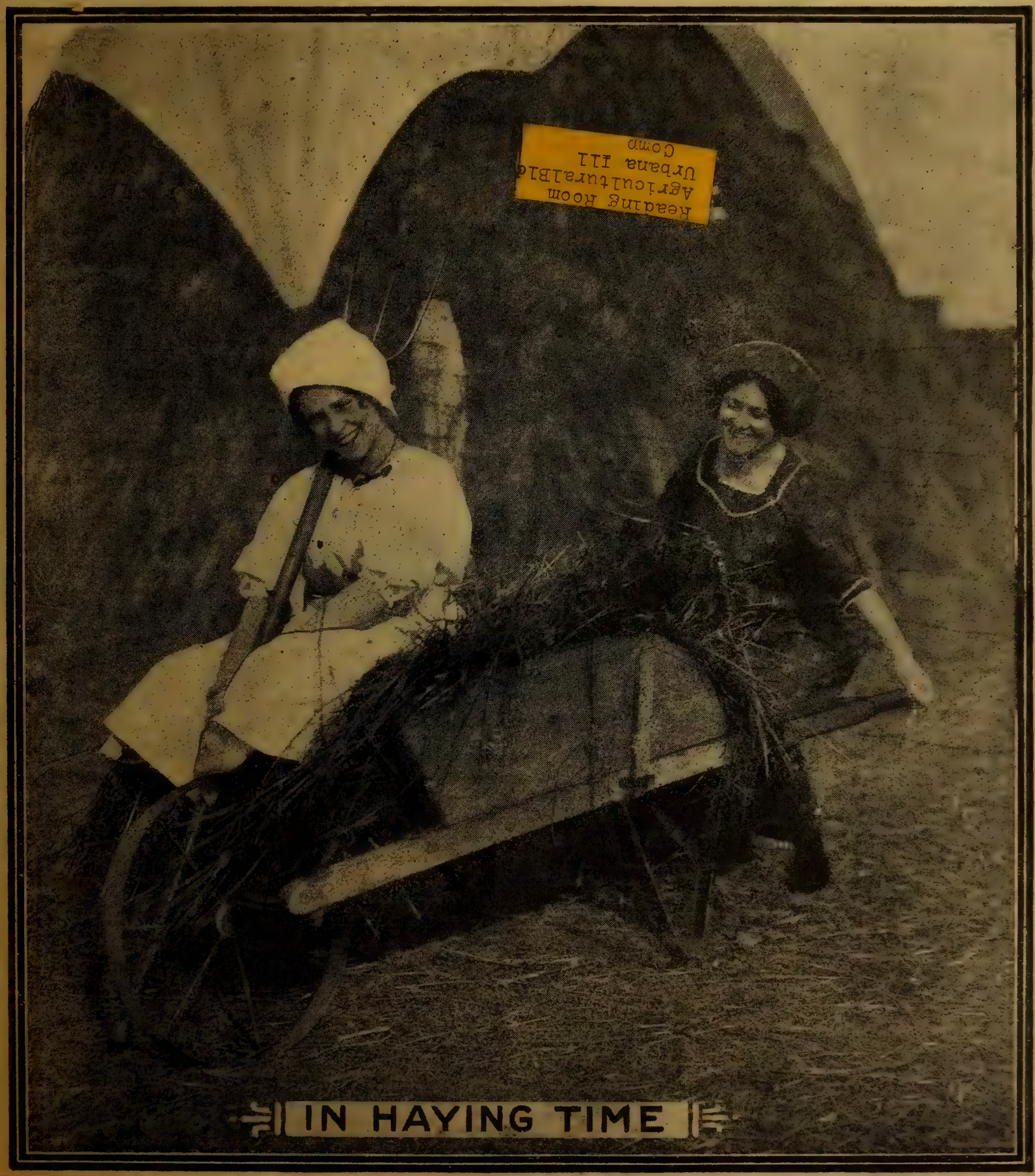
Galloway 15 h. p. Engine Running Thresher on W. H. Stuckmeier's Farm, Waverly, Iowa

5

FILE No. 58

The Iowa Homestead

VOL. LVIII. NO. 30 DES MOINES, IOWA, JULY 24, 1913. WHOLE NO. 2911



IN HAYING TIME

These Japanese characters translated into English mean: "Two Necessities in Every Home."

Kyohei Inukai is a Japanese artist. He was born in Japan—educated in America. Inukai's fame will be world-wide in the not far future because Inukai artistically is a wonderful product of the Orient. The example of his work shown on this page, illustrates his directness of vision in voicing the message of Montgomery Ward & Company's Catalogue. When asked to convey through his art the idea behind the great Ward book of bargains, he sent in this drawing and over it he wrote in Japanese and English these words:

"Two Necessities In Every Home"

Everybody knows that the first necessity of every home is a Baby—a boy or girl, or a bunch of both. The Baby is the monarch absolute of every fireside where he sets up his throne and goes forth with ruthless hand to slay a fond mother's ribbons and put dents in Daddy's derby. How much more you feel the responsibility of home-keeping when the little fellow comes—How much more you appreciate the things that help the home, that beautify the home, that economize for the home—that help the home to prosper—for Baby's sake.

Yes, you deeply, fully lovingly appreciate that other necessity, the big, complete, varied, serviceable, convenient Saving Book of Ward's—the Catalogue of 1913—which is a boon to baby, because—

It helps father's money to go further—

It helps mother to get more of the things she wants—

It helps the home because it contains the things, the home ought to have at prices that mean Economy in the home.

In a thousand pages—a veritable wonderland of bargains—it spreads out before you all that you need, all that you can use, with a full measure of honesty and prices so low that they double and triple the purchasing power of every purse.

This Catalogue of 1913 is the triumph of 40 earnest years of service—to several generations of thousands of families—now extending to millions a complete shopping guide to the best merchandise of the world. The more you use it, the more you will become attached to it, the more it will prove a positive necessity in your home.

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The Iowa Homestead

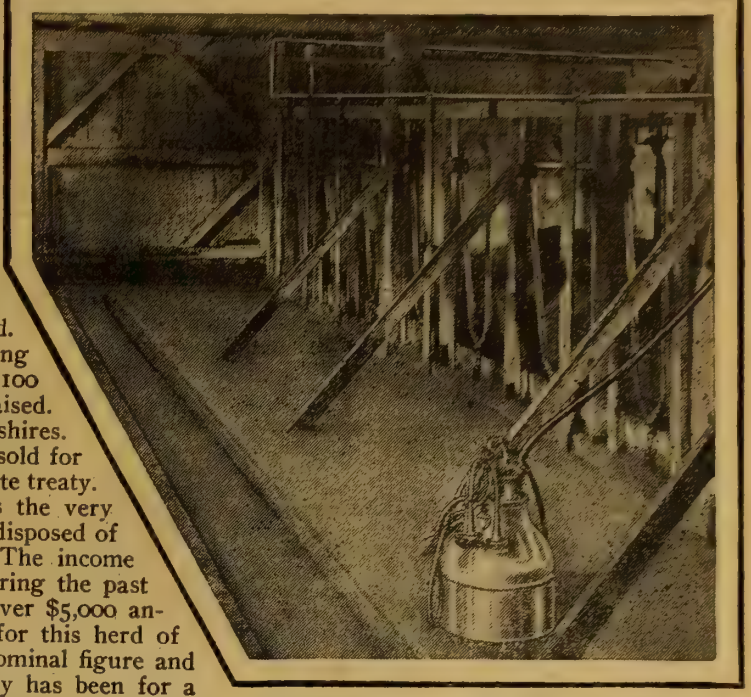
DES MOINES, IOWA, THURSDAY, JULY 24, 1913.

Opportunities of the Good Farmer

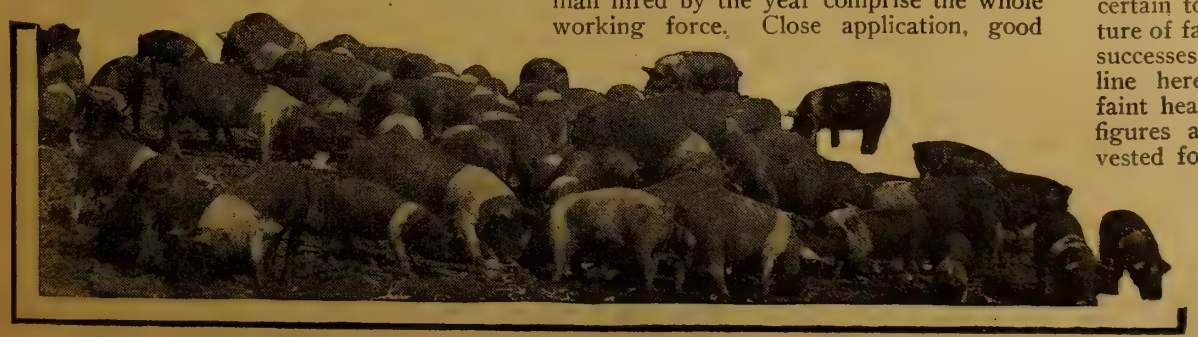
A Combination of Dairying and Swine Raising That Solves the Far-Reaching Problem of Profit Making on High-Priced Grain-Belt Land.

THAT the sow and the cow are the basis of American agricultural prosperity is a trite expression frequently made by the veteran live stock auctioneer, Col. F. M. Woods. It is certainly true that so far as profits are concerned, dairying and swine raising on the corn-belt farm form a combination that is hard to equal. On a Whiteside county (Illinois) farm, of 200 acres, this method of live stock farming has proven both satisfactory and profitable. Beginning a few years ago with a few high-grade Holstein-Friesian cows, a continued use of pure-bred bulls of approved dairy type produced such results as to stimulate a desire for a herd of recorded animals. Three years ago several pure-bred cows were added to the herd. At the present time twelve of the twenty-two cows in milk are registered animals, and with the young heifers it will be but a short time until the grades will be disposed of and the entire herd will consist of pure breds. The whole milk is sold to a condensary. The cows in this herd have averaged $146 per head during the past year. This is exclusive of the calves from the pure-bred cows which are valued at $100 each when one year old. The silo takes an important place on this farm in furnishing succulent feed for the cows during the winter months, as well as in the late summer when pastures are dry and short. Last year five acres of alfalfa were sown and an excellent stand secured. The first cutting was made on June 9th, and ten and one-half tons of excellent hay were taken off the five acres. This large yield is an excellent indication of the results that will ordinarily attend a thorough preparation of the soil before sowing alfalfa. The land was treated with inoculated soil, ground limestone, ground phosphate and stable manure, and the physical condition of the soil was made ideal by thorough disking and harrowing. Another field of the same size will be sown this year and it is estimated that the ten acres will produce from fifty to sixty tons of hay per year. The cost of operation on this farm has been reduced to a minimum by practical labor-saving machinery. A milking machine has been recently installed with which the twenty-two cows can be milked in an hour, and with a greater degree of cleanliness than if milked by hand. One hundred to 150 spring pigs and seventy-five to 100 fall pigs are annually raised. They are pure-bred Hampshires. The best of the males are sold for breeding purposes at private treaty. At annual bred-sow sales the very choice of the females are disposed of at remunerative prices. The income from the swine raised during the past few years has averaged over $5,000 annually. The foundation for this herd of swine was secured at a nominal figure and since then the main outlay has been for a high-class herd boar every year or two. The work horses of the farm are pure-bred Percherons, and there is an added income from the four or five colts raised each year.

With the exception of the concentrates, such as oil meal, bran, etc., practically all of the feed for both cattle and hogs is raised on the farm. This shows how one man makes a 200-acre farm produce an annual income of from $8,000 to $10,000 at a minimum cost of operation. The farm above referred to is owned and conducted by Mr. A. L. Goodenough, and every detail receives his careful attention. A son and one man hired by the year comprise the whole working force. Close application, good judgment, hard work and unquestioned integrity have been largely responsible for his success. Some people entertain the idea that the opportunities on a farm are not what they were some years ago when land was cheaper in price. We do not believe this. It is largely up to the man to make use of the opportunities within his reach, and if the man of today will do so, his chances for success are fully as good, if not greater than ever before. The last word in farming possibilities has not been spoken. Opportunity beckons forward today as never before. What Mr. Goodenough has accomplished, in so remarkably a successful manner, is possible to others, provided the same factors of determination and scientific attention to details are present. The grain belt is just as full of remarkable instances of big financial returns from careful farming as any part of the country. Given the personal element of determination, well-selected soil, well-bred animals and careful attention to details, both large and small, and the 200-acre farm, whether it be in Iowa, Wisconsin or Oklahoma, is almost certain to yield profitable results. The future of farming is bright with promise, such successes as the one narrated, in merest outline here, being encouragements to the faint hearted and the dubious. There are figures aplenty to show that money invested for good stock is sure of profitable returns, as Mr. Goodenough's success should suffice to show to the most skeptical. Careful attention to scientific methods will hardly fail to duplicate his success. The continued prosperity of the American farmer depends upon just such farming.



MILKING MACHINE AS AN ECONOMICAL FACTOR.



THEY MAKE A PROFITABLE SIDE LINE ON THE DAIRY FARM.

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BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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PUBLISHED EVERY THURSDAY

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WIDE ADAPTABILITY OF THE SILO.

An Iowa subscriber raises an objection to some of the arguments that are advanced in favor of the silo. He states that the erection of a silo means that one must practically get into a rut on his farm affairs. In other words, if he has a silo he should fill it every year and having it filled it is necessary to keep enough stock to consume the contents. According to his views it is often a bad business venture for a farmer to buy enough cattle in the fall to consume the contents of a silo and yet where one is erected this policy must be carried out as if by compulsion.

To our way of thinking this is taking rather a narrow view of the case. To be sure those who go to the expense of erecting a silo should first make up their minds that they will carry out a policy that involves the keeping of considerable live stock. It does not necessarily mean, however, that the same policy must be pursued year after year, but as a matter of fact there is opportunity for very great changes in farm practice and still a part of the corn crop be used in the form of ensilage most economically.

We have in mind an instance where a very large silo was filled last fall, the owner in this case having on pasture at that time someting like 180 cattle. It was his intention to feed them a heavy ensilage ration during the winter and a half feed of grain daily and to finish them up on grass this spring. His plan was interferred with when he was offered last fall what he considered a good margin on these cattle as feeders. This he accepted and as a result that silo is full of ensilage today. He expects to begin feeding it some time in July and hopes to make economical gains on thin cows and rough, cheap cattle which he is now buying.

Market conditions may justify men at times in changing from the policy of beef raising to dairying, but the silo fits as well into one branch of farming as the other, furnishing as it does the cheapest and most palatable form of roughage that is available on the farms of the corn belt. As we see it no farmer need hesitate about erecting a silo for fear that he will want to change his policy and therefore in the future have no use for this form of equipment. As we said in the beginning we now repeat that it is assumed before a silo is erected that there will be an adherence to the carrying out of some live stock policy and that being the case it may be remembered that the silo in its adaptability meets the needs of a very great variety of conditions.

FEEDING RYE.

Taking up the subject of "Handling Hogs on Pasture," recently treated in this paper, A. T. McCallister, of Pendleton, Indiana, writes:

In a recent issue of your paper I notice an interesting article on the subject of blue grass, timothy and other pastures for hogs. In that article you recommend rye. Please advise me (1) if in feeding ground rye as a slop it will pay better to have it ground fine and fed with the slop or, (2) would it be better to sell the rye and buy ship stuff? (3). Is it best to mix bran with rye flour for slop? (4) Please give me a good recipe for mixture for spraying pigs for mange or lice. I keep from twenty to twenty-five brood sows and as they are an extra brooding strain, they raise two litters a year. Following this plan I have found it advisable to push my pigs from the start and get them in shape for market at the earliest possible time so that in case of suspicion of disease we can get them to market quick and avoid losses. It takes lots of slop to do business this way, but I think it pays.

(1) If rye is ground it would be better to grind it in an ordinary feed mill rather than as a flour. Tests have shown that rye meal is a trifle less valuable for hogs in the form of slop than is cornmeal fed in the same way. (2) Whether or not rye should be sold and other feed purchased depends upon the relative price of the two feeds. If corn is not available to mix with your slop it would be preferable to feed wheat middlings with it rather than ground rye pound for pound. If rye is fed it should always be ground and given in the form of slop if best results are to be secured. (3) No. (4) Any of the coal tar preparations or any of the dips advertised will answer your purpose as a spray. A cheap preparation is crude oil with just enough carbolic acid to give a good strong odor.

NEED OF SCALES ON THE FARM.

Almost every day we are able to cite some instance of where scales on the farm would have saved the farm owner many dollars. Only the other day we were told of one farmer losing 400 pounds of weight on a bunch of cattle "lumped off" to a buyer. Of course, in this instance, a farmer selling stock but seldom and seeing the different classes weighed only occasionally stands little chance with a buyer who is weighing stock nearly every day in the year, therefore becomes expert on guessing weights.

But scales on the farm do away with guessing weights. One is able to know then without guessing, and a price may be put upon stock whenever a buyer comes around based upon an actual weight basis. This applies to cattle that are sold at so much per head or that are "lumped off," quite a common way of selling all but the best finished corn-fed cattle. Nevertheless, the buyer figures on price per pound and the probable weight of the animal, which is the way every animal is sold on the city market, and it is the way every animal should be sold on the farm. The habit of "lumping off" is stopped as soon as scales are on the farm, and the farmer with much stock to sell soon makes back the price paid for his scales if he has much stock to sell, and particularly if he has been guessing at the weight with a buyer more adept at guessing than he.

In addition to keeping the buyer straight in the matter of weighing, scales on the farm work to the owner's advantage in another way, that of telling him how a bunch of cattle or hogs he is feeding are getting along. Many times scales to tell of the gains being made will stop a feeder from selling just when he is securing the best gains, or cause him to sell sooner than he intended because of poor gains that would scarcely be detected without the scales. A pound of pork or beef is worth money now and never will be low in price again, so scales to keep close account of weights mean more than ever before.

THE HARVEST PRICE OF WHEAT.

We heard a great deal about the low price of wheat at harvest time, and of the profits of storing wheat to sell later, at a better price. Sometimes it turns out to be very profitable to hold wheat for five and six months before selling, and again the most is obtained by selling directly from the thresher. All depends upon market conditions of the fall and winter and of the new crop prospects from the middle of winter on until another harvest time. Often the claim is made that a low price is established by millers, elevator owners and buyers in general at harvest or threshing time, knowing that a large per cent of the wheat raisers must sell at that time because they have no storage room for their wheat out on the farms. Again, the old-time story of needing the money as soon as possible to obtain it from the sale of the crop is brought out as a reason for pushing the crop on the market. At any rate, one never can be sure at threshing time whether the most will be made by holding the crop to sell later or whether it would bring the greater return to sell as soon as threshed.

There are a few things to be considered about holding a crop of wheat in the bin for some months before selling. In the first place there is the storage room needed. While we do think every wheat raiser should have considerable storage room for wheat on his farm, to build at once enough to store an entire crop is a considerable initial expense in these days of high-priced building materials. If it can be arranged so the room can be utilized for other purposes when not filled with wheat the expense does not seem to fall so heavy. But there is the cost of storage room first to be considered, then the insurance on the grain itself, for no one should hold so valuable a crop as wheat in the bin without insurance covering loss by wind and fire. Interests on the value of the grain is another item and shrink in weight is still another. All these add to the cost of holding wheat in the bin, and yet there are many, many times when the advance in price much more than cover everything, leaving a nice margin of profit besides.

VALUE OF BUTTERMILK FOR HOGS.

A Wisconsin subscriber, Mr. C. J. Griffing, gives his experience in the feeding of buttermilk to growing pigs in the following communication:

Many people who bring their milk to a creamery can have the buttermilk left after making butter, for hog feeding if they wish. Some people call this "slop" and refuse to feed it to their hogs. This buttermilk when fed while fresh, that is, within a day or two of churning, has a high feeding value and is indeed far from slop. Many farmers do not get satisfactory experiences with buttermilk because they try to make an exclusive ration of it. Such a plan is absurd for it is a well-known fact that an exclusive ration of any one feed will not produce satisfactory results in feeding any class of animals. If this faulty plan is followed results are sure to be unsatisfactory, for buttermilk is very bulky, very rich in nitrogenous elements and too constipating for exclusive feeding. The latter is really the serious fault from which most of the trouble comes and one, too, which seems to be usually overlooked. This comes from the fact that the pigs relish the buttermilk so much that one is liable to feed too much. If this is done with pigs weighing less than seventy-five pounds I have found that it is almost sure to cause bowel trouble. I find that hogs weighing 120 pounds or more if brought to it gradually can take much more buttermilk without apparent evils, but I do not find it economical to feed ore than five pounds of buttermilk to one pound of grain. Best results are obtained when only three pounds of this milk is fed to one pound of grain. When fed in this proportion the buttermilk is two or three times as valuable as when fed in the larger proportion. Buttermilk produces bone and muscle and when fed too largely there is too much growth without attendant fattening. When the pigs are ready for finishing for market the buttermilk ration may well be cut down still more to promote fattening. Corn is a cheaper and better feed for this fattening process. I feed twice daily and aim to be as regular as the clock. It is a mistake to feed the grain ration first. The buttermilk should all be consumed before feeding the grain. If the grain is fed first the buttermilk has a tendency to wash it out of the stomach and results from the feed are not as good, since the digestive juices of the stomach do not get a chance to act upon the grains. No one who raises hogs should despise the feeding value of buttermilk, for if handled intelligently, or perhaps I had better say, sensibly, results are sure to be good.

Too much emphasis cannot be placed on the importance of the advice given by Mr. Griffing, more especially in regard to the use of buttermilk in too large quantities. Because it is a cheap product, which it is in some communities, the attempt is often made to use it to take the place of grain entirely, but this is a blunder which no man will make the second time. It is our hope that it will not even be made the first time by those of our readers whose attention has been called to this communication.

A little care is needed in starting a bunch of shoats on buttermilk and we have found from practical experience that there is no better plan than that which requires the soaking of corn or other grain in diluted buttermilk for a period of twelve hours before feeding. If fed in this way for several days the bowels seem to become accustomed to it so that when it is fed in its pure state no injurious effects will be apparent.

BEE KEEPING.

Bee keeping may be made a division of farm operations in practically all sections in which general farming is followed. In many localities so little attention is paid to it that bees are practically unknown. Such is probably the case at Harvey, North Dakota, from which place a subscriber writes as follows:

Would you kindly publish an article on bees? What crops should a farmer grow from which they might gather honey?

Bee keeping, like most lines of work, has its peculiarities, and while there is no work connected with it that may not be done by anyone of ordinary intelligence, the best results are obtained by those who are particularly adapted to it.

The start must, of course, be made by the purchase of one or more hives of bees. The beginner should insist upon the gentler varieties—Italian, Carniolans or Caucausians. The first named are more popular, though the second have the best reputation for gentleness. The native black bee or its crosses should be avoided because of viciousness. The bees should be established where the hot sun of the middle of the day will not strike them. The hives should be set up off the ground so as to give circulation of air beneath them. A few inches will be sufficient. Weeds should not be permitted to grow up around the hive. The better hive is the angstroth pattern, which, with other supplies may be purchased from bee keepers supply houses. About the only requirements for the farm apiary are a smoker and a bee veil, with extra sections.

It is best for the beginner to start in the spring with a single hive—a good, strong one.

Bees should be handled so that they will be little disturbed in their work. As much as possible, stings should be avoided during manipulation. This is true, not so much because they are painful to the operator, but because the odor of poison which gets into the air irritates the other bees and makes them more difficult to manage. For this reason it is most advisable to wear a black veil over a wide-brimmed hat and to have a good smoker. Gloves, however, are usually more an inconvenience than otherwise. Gauntlets or rubber bands around the cuffs keep the bees from crawling up the sleeve. It is best to avoid black clothing, since that color seems to excite bees; a black felt hat is especially to be avoided.

Superflous quick movements tend to irritate the bees. The hive should not be jarred or disturbed any more than necessary.

The best time to handle bees is during the middle of warm days, particularly during a honey flow. Never handle bees at night or on cold, wet days unless absolutely necessary.

Before opening a hive the smoker should be lighted and the veil put on. A few puffs of smoke directed into the entrance will cause the bees to fill themeselves with honey and will drive back the guards. The hive cover should be raised gently, if necessary being pried loose with a screwdriver. When slightly raised, a little more smoke should be blown in vigorously on the tops of the frames, or if a mat covering for the frame is used, the cover should be entirely removed and one corner of the mat lifted to admit smoke. It is not desirable to use any more smoke than just enough to subdue the bees and keep them down on the frames. If at any time during manipulation they become excited, more smoke may be necessary.

It is scarcely worth while to try to raise crops especially adapted to honey making. Alfalfa, sweet clover, white clover and alsike clover are all good honey bearing plants. Buckwheat ranks high. Honey is produced by all fruit blossoms by rape, mustard and a wide range of fall flowers.

In the latitude of the inquirer bees are best wintered in a cellar or cave built for that purpose. Our subscriber may obtain much valuable information from Farmer's Bulletin 447, which may be secured by sending a request to superintendent of documents, Washington, D. C.

Use kerosene instead of oil on the sickle-bar of the mower or binder. It will prevent gumming.

ROAD COST PER ACRE.

Governor Hodges, of Kansas, gave a good illustration of the value of good roads to the farmer, in dollars and cents, in the course of a recent speech in his state. He began by calling the attention of his auditors to the fact that "good roads mean good public schools; good schools make good general education; good education makes good morals" and then proceeded to show that while there is a considerable investment in the aggregate, the cost to the individual acre is but little and is amply justified. He said:

You have the finest dirt roads in the world. What you need now is to macadamize them so you will have fine roads all the year around when the prices for farm products are high, as well as when they are low. I recently was assessed $4 an acre on my farm for a rock road that cost about $6,000 a mile. That's a fine road. A very good rock road can be built in your level country for as little as $2,400 a mile.

But take that $4 assessment for example. A man with a team can carry the yield of one good acre of corn to town over an average dirt road. On a good rock road he can carry with one team the yield of two acres. Figure for yourself what a man's time is worth, and how long it will take to pay for the rock road. That's how it profits you, even if you don't care to sell your farm. If you are interested in the market value of land take this from my own experience. Since the rock road was built by my farm I have been offered $25 an acre more for it than I thought it was worth before the rock road was built.

The trouble is that the cost of permanent roads is looked at in the aggregate and scares the half-hearted. To be confronted with an expenditure of millions of dollars is enough to make most any farmer hesitate. But when it is carried down to the real unit, the acre, the expense is small when compared with the returns which are almost inevitable and not long in coming. The people must be educated up to permanent roads, built at a cost of two to five thousand dollars a mile, before the era of permanent roads will dawn. They can be educated much more easily and satisfactorily by getting down to rock-bottom facts as to the cost and value to the acre, rather than to the state as a whole.

SOME RULES IN FAVOR OF THE WORK HORSE.

Farm work and city work are quite dissimilar from the standpoint of the work horse. Labor performed on paving is of necessity much more jarring on the feet and limbs of the horse than is the case when the labor is performed right out on natural soil. Barring this striking difference, however, work is work and we believe that the following rules which have been prepared by the Boston Work-Horse Parade Association will interest many of our boy and young men readers:

First, start at a walk, and let your horse work very easily for the first half hour.

Second, a heavy draft horse should never be driven faster than a walk, with or without a load.

Third, look to your harness. Avoid these faults especially: Bridle too long or too short. Blinders pressing on the eye or flapping. (An open bridle is best for most horses.) Throat-latch too tight. Collar too tight or too loose, or dirty on the inside. Shaft-girth too loose. Traces too long. Breeching too low down or too loose. Inside reins too long, in the case of pairs.

Fourth, do not let your horse drive himself; but handle the reins gently. Never jerk the reins; to do that is the sure mark of a bad driver.

Fifth, try to deliver your load with as little backing as possible. Backing a heavy load is apt to strain the hind legs.

Sixth, take the horse out of the shafts as much as possible; and if you drive a pair or four, unfasten the outside traces while the horses are standing; they will rest better that way.

Seventh, teach your horses to go into the collar gradually. When a load is to be started, speak to the horses and take a firm hold of the reins so that they will arch their necks, keep their legs under them, and step on their toes. A loose rein means sprawling and slipping, often with one horse ahead of the other.

Eighth, water your horse as often as possible. Water in moderate quantities will not hurt him, so long as he keeps moving.

Ninth, blanket your horse carefully when he stands, especially if he is at all hot. Repeated slight chills stiffen and age a horse before his time.

Tenth, bring your horse in cool and breathing easily. If he comes in hot, he will sweat in the stable, and the sudden stoppage of hard work is bad for his feet.

Eleventh, in hot weather or in drawing heavy loads, watch your horse's breathing. If he breathes hard, or short and quick, it is time to stop.

Twelfth, remember that the horse is the most nervous of all animals, and that little things annoy and irritate him. Remember that he will be contented or miserable accordingly as you treat him.

There is not a single principle here enunciated but what applies alike to the farm as well as to the city horse and the kind of care that would result when these suggestions are kept in mind would not only lengthen the life of the average work horse, but would aid immensely in keeping him in good flesh during his working years.

Special attention might be called to suggestion No. 10 because no more serious blunder can be made than by working a horse strenuously and heating him up just before putting him in the stable. The sensible driver tends to slacken the pace and let his horse gradually cool out, as it were, during the last half hour before putting him in the stable. It only means the carrying of this same sensible principle a little bit further when it is suggested that during the first half hour after meals a little care should be taken in order that the change from the work of digestion to the work of labor may not be made too suddenly.

RHUBARB CULTIVATION.

A subscriber from Albia, Iowa, asks the best time to plant rhubarb seeds and the proper care of the plants. While rhubarb may be grown from seeds, it is usually propagated by division of the roots, small pieces of which are separated from the old established roots and planted in rich, mellow soil. The roots may be planted from two to three feet apart. They cannot be cut the first year.

If grown from seed the seeds should be sown in a cold frame in March or April, protected from freezing and in two months the plants will be ready to set. Put them in rows twelve inches apart and give them good cultivation during the remainder of the season. The following spring they may be set out in permanent places. They should then be set in well prepared ground at a distance of four or five feet apart, after which the same treatment may be given as though they were set from pieces of roots. Ordinarily well cared for plants will live for a good many years. They should not be cut late in the season, as that interferes with early spring growth. An ounce of seed will sow a drill 125 feet long.

BEEF CATTLE CONDITIONS.

America at the present time faces a problem peculiar to itself. No other country in the world can offer a parallel because her situation, her remarkable growth, and her enviable location and marvelous natural resources cannot be duplicated. Agriculturally, we have been in the habit of looking toward the mother countries of Europe for analogies in solving the problems which confront us, and in most instances the solution sought has been found and could be satisfactorily applied. Our land and soil problems become simplified when the experience of years in foreign countries is practically applied on our farms. Some men call the farmer who practices a good system of crop rotation, and who applies fertilizers to depleted soils, a scientific man, which is true. Yet the farmer who is making the old farm yield more than formerly is not necessarily so much scientific as extremely practical.

Today, America faces a problem which has no analogy. No country in the world possesses the great range, the great crop raising facilities, and the energetic farmers in such vastness as are found here. Just now we are facing the problem of high cost of living which is common to the entire world where standard of living is on a high plane, and which is constantly going higher. That is the result of prosperity. In no commodity is the high cost so much noticed as in the cost of meat, which people are willing to pay well for if they can get it. During the past few years, however, our supply of meat animals has been materially reduced, and the one big question before the students of agriculture today is the meat problem. This is more especially true in the case of cattle because it takes time to replenish the cattle supply.

Agricultural papers have had much to say on the subject the past year, and are now alive with suggestions regarding the proper way to meet the shortage of beef cattle. The final solution seems to be to raise more upon the farm of the corn belt. Every large country in the world has certain sections that are peculiarly adapted to the rearing of beef animals, and in those sections such work is the means of gaining livelihood for the people. Those countries have been in the business long enough to become standardized. Experience has taught them what can most economically be produced in certain sections. America has not yet become standardized. A great many sections of the country are actually just in the making. Time will solve the problem as it always has solved problems, but a view of the transitions is interesting and may point a way to the future.

America became a great beef producing country because of cheap range land. Then the demand for breeding cattle on the range gave rise to call for beef bulls to which the British breeders catered by selecting animals of the beef type. In the show ring the strictly beef animal became the ideal for the Short-horn. The demand for good Short-horns in Argentina also tended to keep a lucrative market before the British breeders, so that the outcome of the whole thing has been that the market looks upon the Short-horn of extreme beef type as the ideal, and the milking qualities have been lost sight of.

During the range days the breeder of Short-horns in a small way had a steady market for bulls, but as in every business there are ups and downs, so in that of the Short-horn breeder. Growth of interest in dairying sections of the country made it difficult for the extreme beef type to be consistent with best returns from the cow. It was difficult for the farmer to get bulls of milking strain, because the best bulls on the market were not from good milking dams, and no milk records had been kept so that he could feel certain that the dams were good milkers. The introduction of general farming in the range country caused a breaking up of the exclusive cattle-raising business there. This cut off one avenue for the sale of bulls, and prices for the breeding stock fell.

Cutting up the ranges had another vital effect upon the cattle trade. It reduced the supply of feeding cattle for the corn-belt cattle feeder who had heretofore looked toward the range for his supply, because they could be more cheaply raised upon the range than upon the high-priced and producing land of the corn belt. It is hard for a man to turn from one line of effort to another. When the feeder supply was shortened, it remained for the feeder to buy cattle at a high price, or, in some instances, to raise grain and sell it, thus becoming a soil robber, where before he was a builder, and while dairying could be taken up it involved more help, which was scarce and very expensive.

The thought of raising their own feeders was forced upon them. This means the restocking of many farms that had fed cattle and a consequent demand for cattle that would be profitable on high-priced land. The same conditions that existed before the palmy range days again confront them. They must find some animal that will do well on high-priced land, not only producing milk, but return a carcass which will sell best on the market.

A TRIBUTE TO FARMING.

In the course of his recently published biography of Thomas Jefferson, Senator John Sharp Williams, of Mississippi, takes occasion to quote the tribute which Jefferson paid to farming as the noblest industrial pursuit in which man could engage, standing first in utility, and adds his own opinion that "it requires very much more brains and very much more information to be a really successful up-to-date farmer than it does to make an excellent lawyer, physician, senator or college professor, besides contributing more to human comfort and freedom."

The fact is now quite generally recognized that instead of being "only a farmer," the tiller of the soil is one of the most skilful specialists of the day; that instead of dedicating a boy to farming "because he isn't smart enough for anything else," farming is being chosen by the youth of the land because it offers the best opportunity for the display of versatility and intelligence along a dozen different lines. For, as Senator Williams points out, "it is one of the occupations that you cannot pursue to the highest point of success without possessing a sort of encyclopedic information, coupled with initiative and decision, for the problem is never the same for any two years." It was this thought which was in Thomas Jefferson's mind when he spoke of farming being a science of the very first order, counting "among its handmaids the most respectable sciences, such as chemistry, natural philosophy, mechanics, mathematics generally, natural history, botany."

If this were true in Jefferson's days, how much truer it is today, when farming has taken a breadth of vision and a wideness of scope hardly dreamed of in the days of the sage of Monticello. The fact is that farming today comprehends almost all the other sciences and arts and calls to its successful pursuits all the intellect and ingenuity which a man possesses. Its problems are constantly changing; its demands for brain constantly increasing; its rewards constantly enlarging.

SAVE THE BIRDS.

The prediction is made by a Missourian, one of those that recently addressed the Kansas City Historical Society, that song birds will become completely extinct unless measures are taken to re-establish their natural habitats. The prediction calls attention to the campaign which is being waged, not only in the grain belt, but throughout the country generally, to protect the birds which annually destroy millions of crop pests and are of incalculable benefit to the farmer. The federal department of agriculture has recently selected fifteen prominent men from all over the country who have agreed to donate their services in an advisory capacity to protect migratory birds, so that their number and usefulness may be enhanced. The plan of the government proposes the following steps in a nation-wide campaign:

Uniformity in protection of migratory game and insectivorous birds in the several states.

Protection of birds in spring while enroute to their nesting grounds and while mating.

Uniformity in protection of migratory birds at night.

Establishment of protected migration routes along three great rivers in the central United States.

Complete protection for five years for the smaller shore birds and other species which have become greatly reduced in numbers.

Reduction of the open season on migratory game birds, but in most cases not more than 25 to 50 per cent.

That the federal government, the states and the individual must cooperate if the birds of the nation are to be spared to carry on their good work as assistants to the farmer in the all-important task of destroying bugs and insects which are crop pests is now quite generally recognized. The Missouri speaker already referred to calls attention to the fact that the bird is simply following in the trail of extinction of the elk, the buffalo and various other animals which were once common in Missouri and elsewhere in the the grain belt. He says:

A hundred years ago wild turkeys were so plentiful in Missouri that only the white meat was eaten. Geese, brants and ducks lined every sandbar on the Missouri river from Kansas City to St. Louis sixty years ago, and thousands of pigeons flocked about the state. There was a large pigeon roosting ground near Excelsior Springs. Parrakeets, thrushes, indigo finches and ravens were once thick in this state. Mocking birds and other songsters were far more numerous than today.

The last record of an elk in Jackson or Clay county that I know of was one killed in 1806 on the present site of the union depot in this city. It was killed by members of the Lewis and Clark expedition. There is no evidence of buffalo in either of these counties since 1818. There have been few if any in the state within the last 100 years.

Bears disappeared from Jackson and Clay counties a century ago. Deer were plentiful about sixty years ago. In 1857 a porcupine was killed near Liberty. Its presence indicated that Missouri was once the habitat of this animal. Beavers have been scarce for a century. Two years ago a beaver family was discovered in Clay county. In accordance with the modern attitude toward animals these were rapidly exterminated and their pelts sold.

The farmers of America would be millions of dollars poorer if birds were to become extinct, to say nothing of the cheery friendliness of their companionship. It may not seem an important matter to the farmer, busy in the cornfield or the feed lot, but the value of the bird can hardly be computed. His loss would make itself felt far more seriously than most farmers realize.

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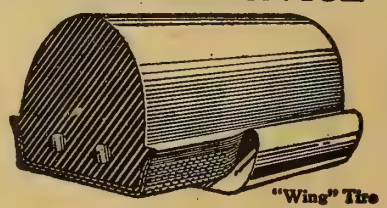

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Note this patented "wing"—how it presses against the channel, thus preventing mud, grit and water from getting in and quickly destroying the tire base. This tire remains sound. It won't creep or get loose. Gives utmost wear. Will greatly lengthen life of your carriage. Of tough, springy rubber—exceptionally easy-riding. Send us your name on a postal today for our latest Carriage Tire Circular. (1261)

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H. V. SCHROEDER MFG. CO. 150 Third Ave., Minier, Ill.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

When it comes to perfumery, a corn field just coming out in tassel and silk has the drug store kind beaten a mile.

I do not like to leave the potatoes in the soil a very great while after they have ripened. A soaking rain is apt to start sprouts, and a potato that has sprouted in the soil before digging is always watery.

The fruit crop of the future is going to pay better than it has paid in the past, but because of worms and insects of various kinds it will take work and knowledge of what to do to raise the best crops. Many orchards are dying out without the owners planting new stock.

Again it will be a good idea to buy twine needed for the corn harvest early. Last fall there was a shortage, and it looks as if there would be this fall. The country now uses a lot of twine to tie up the corn crop. Better buy what you have to have when you can get it.

Better take a look at that empty stave silo. Warm winds and sun shrink it fast, and hoops should be kept tight so it will stand through a hard wind. Mark before you tighten, then let back to that mark when commencing to fill. This will prevent bursted hoops and warped staves when filling.

A pig seldom outgrows the hole he has been used to using in the fence, although he may be doing better than any pig you ever raised before. Pigs usually do well when they have liberty, but they soon commence taking too much liberty, particularly if a neighbor's corn field is close.

This is the age of larger machinery. I can remember when the four-foot cut mower was standard. When the cutter bar was lengthened to four feet and a half folks said that was six inches too much. Now the six foot is common and seven and eight footers are quite plentiful.

Cutting suckers in the corn field was once a job for the barefoot boy. Nowadays, if corn suckers the suckers are allowed to remain. Sometimes, if rain is plentiful, the suckers bear ears the same as the original stalk, but if not they make that much more fodder. In the days before the corn binder how we did hate to cut suckered corn with the knife.

County fair premium lists are circulating through the mails. As a rule, county fairs are not as popular as years ago. They pay too much attention to horse racing and cheap shows of the "vawdvill" order, so many say, to deserve patronage. The scramble for the prize pumpkin and the best colt is no more.

The fat horse on a hot day, in the hands of a driver who doesn't care is a risky combination. Many horses are ruined or partly so by carelessness in excessively hot weather. I notice more horses are "winded" in hot weather when laying by corn now that most drivers ride instead of walk.

The season for best use of the disk plow is approaching. When the soil is dry and hard, as most stubble fields are during August and September, no plow pulls easier than the disk. It is a hard, dry land plow. The only fault I can find with it is the furrow bottom it leaves for the horse to walk in. Being saucer-shaped, it is tough walking for the furrow horse.

The scent of new-mown hay may be a fine thing for our city brothers to dream about, but if they wish to go up against the real thing let them come out and help haul on a windy day or spread hay in the barn some day when the thermometer shows ninety-five in the shade.

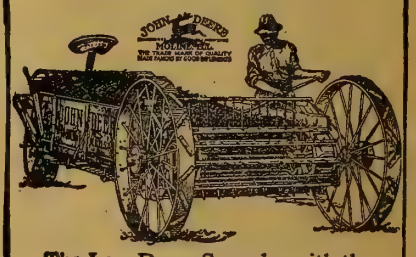
The number of cows to be fed should determine the diameter of the silo to be built, because a certain depth must be taken from the top each day to prevent the silage from spoiling. A ten-foot silo will do quite well for ten cows, a twelve-foot silo will furnish feed for fifteen and a sixteen-foot silo for twenty or over. If a larger silo is needed it is usually better to build two in order to be sure to have fresh, sweet feed.

One acre well tilled will produce more than two acres half tilled. This should be borne in mind by those who are thinking of cutting down the size of their pasture in order to have more acres under plow. Give the pasture a light "dressing" of manure and see what it can do, and let the other fellow experiment with stall-fed cattle. Perhaps it isn't what it is cracked up to be.

Little pigs that have free range will grow like weeds, but they will be quite likely to get into mischief. If they can be kept from straying off to the neighbors it may be better to overlook a few things rather than to shut them up in a small yard.

John Deere Spreader

The Spreader with the Beater on the Axle



The Low Down Spreader with the Big Drive Wheels

Here's your chance to get a low down spreader in which the advantage of big drive wheels has not been sacrificed for the low down feature.

The John Deere Spreader has revolutionized the spreader business. It is as much an improvement over the ordinary manure spreader as the modern binder was over the old-style reaper. Some of its good points are:

The Beater

And all its driving parts are mounted on the rear axle. Power to drive it is taken from the rear axle through simple gears like those that have been used on horse-powers for many years. This construction is patented. You cannot get it on any other spreader.

Only Hip-High

Easy to load. The top of the box is only as high as your hips. Each forkful of manure is placed just where it is needed. You can always see into the spreader.

Few Parts

Clutches, chains and adjustments; in fact, some two hundred parts in all, are entirely done away with. To throw the machine into operation, move the lever at the driver's right back until the finger engages a large stop at the rear of the machine.

Roller Bearings

Together with the simplicity of the machine itself, make the John Deere Spreader light draft. There are many more reasons that have helped to make the demand for John Deere Spreaders greater than all those interested in the spreader business thought possible. These features are fully discussed in our spreader book.

Easy to Load

Only Hip-High

Get This Book Free

It tells how John Deere Spreaders are made and why they are made that way. It contains illustrations and descriptions of working parts and colored pictures of the John Deere Spreader in the field. It also has valuable information regarding the storing and handling and applying of manure to the land. Get one of these books free by asking us for our spreader book, Y27

John Deere Plow Company
Moline, Illinois

CURRENT EVENTS

THE republican assault on the democratic tariff revision bill was opened in the senate by Senator McCumber, of North Dakota, whose speech opposing Canadian reciprocity was one of the best and strongest delivered in congress against that one-sided pact. Senator McCumber attacked the Underwood tariff bill because of its discrimination against the farmer, charging the democrats with "diliberately kicking the American farmer into the gutter." He pointed out the large number of farm products put on the free list and asserted that if the country were to cut down on its luxuries it would not be necessary to thus remove protection from the farmer on its necessities. He carried on this imaginary conversation with the farmer with telling effect: "You are reaching a point where your income is unable to keep pace with your extravagances and you are asking the farmer to make good the deficit by reducing the price of his products. It never occurs to you that the proper place to begin economy is on the luxuries and the unnecessaries of life. You declare to him that the American people are paying $1,500,000,000 for meat and you say this is too much. He answers, 'They are also paying $2,000,000,000 for liquors. Cut your bill half and you will save enough to buy all your meats.' You declare they are paying $435,000,000 for flour. He replies, 'They are paying $800,000,000 for tobacco. Cut your tobacco bill half and your flour is free.' You declare they are paying $225,000,000 for potatoes. He replies, 'They are paying $500,000,000 for theaters and amusements. Cut your amusements half and your potatoes are free.' You declare they are paying $300,000,000 a year for butter and eggs. He replies, 'They are spending $500,000,000 a year for confectionery.' His replies are unanswerable." Senator McCumber will be followed by numerous other republicans, although it is almost a foregone conclusion that the democrats can put their tariff plan through, regardless of the verbal assaults in the senate, having two votes to the good in the final test.

HAVING made a good start at the difficult task of heading the presidental cabinet, secretary of state, Bryan, is now being attacked in congress and elsewhere for his action in quitting Washington for a five-weeks Chautauqua lecturing tour. Incensed by the attacks, Secretary Bryan has issued a statement in which he declares that his salary of $12,000 a year is not sufficient to meet his needs and that he proposes to add to his income by his lectures, adding that during the past seventeen years he has delivered a vast number of addresses without receiving a cent compensation and even paying his own expenses, despite which he has been in the habit, recently, of saving $10,000 a year from his earnings. By taking the government position and withdrawing from private life for four years he would, therefore, stand to lose $40,000 unless he added now and then to his income by returning to the lecture platform. The whole affair seems to us to be much ado about nothing that the public has any business with. Secretary Bryan is an able and popular speaker, the public cannot hear him too often. His talks are invariably on a high, moral and dignified plane. If he chooses to take part of his vacation time to lecturing for pay, instead of going to the mountain or seashore and spending money, it is little or none of the public business. While the salary of $12,000 a year seems a large one, it must be remembered that the duties of the high office necessitate large expenditure. For instance, Mr. Bryan pays $4,000 a year house rent. Then he must entertain all the foreign ministers and representatives, in addition to notable Americans. In fact, it is almost a continuous performance of entertainments, all of which costs money. It is far better for the secretary of state to deliver paid Chautauqua addresses and be above suspicion than to receive financial aid from outside sources which are questionable or for the office to be possible to a rich man only.

BULGARIA is paying the penalty of selfish aggression. The Balkan allies, which united against the common enemy, the Turk, have now split and Servia and Greece, strengthened by Roumania, have allied themselves with the Turk against the common enemy, the Bulgar. The latter brought all his new troubles on himself by demanding the lion's share of the conquered Turkish territory in a most presumptious manner, refusing to admit that Greece, Montenegro or Servia deserved any credit for the allies' victories. While it was true that Bulgaria had many more men in the field than any of the other allies, it did not win all the victories unaided, nor did it, alone and unassisted, bring Turkey to its knees. Accordingly, the whole matter should have been referred to Russia for arbitration, as the allies agreed before they became drunk with love of territory. No sooner had the allies fallen out than the Turk saw his opportunity and started to march back over the territory he had lost, joining hands with Greece and Servia against Bulgaria. Roumania had taken no part in the campaign against Turkey, but saw a chance to grab a slice of land, and joined against Bulgaria. The result is another war in the Balkans which promises to be as bitter and as bloody as the one just ended. When this second war is over there is no assurance that the victors will not fall out again, with an endless chain of alliances and campaigns which promises to pit one nation against another for many years to come. In the meantime the crops are suffering, the people are becoming impoverished with debts and thousands upon thousands of lives are being sacrificed in the mad desire for more territory over which some monarch will have tyrannical sway.

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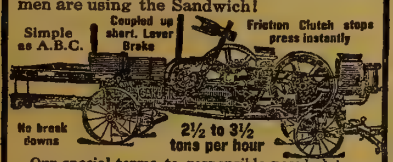
(solid steel—money maker)
Motor Press

Puts you—or your boys—in the big paying, fast growing business of baling hay! "Net profit $18 to $22 per day," write Swartz & Mensch, Dixon, Ill. Other hustlers making $200 to $300 net profits monthly. And these men are using the Sandwich!



Our special terms to responsible people let you start with little money. And you pay from your profits. Unless we **know** the Sandwich will make you stacks of ready cash, we could not sell this way.

Gas Engine on Same Truck

Here's the most complete hay baling outfit in existence. Full power is driven from engine to press by heavy steel roller chain. It does away with slipping belts. The Gas Engine is the best quality—hopper cooled type—gear driven magneto—4, 6, 8, and 10-horse power.

The Sandwich has a simple time-tried self feeder and a big feed opening. A great windrow baler. Beats every ordinary press from 2 to 8 tons daily. 25 tons are an everyday job for the Sandwich; often 30 to 40.

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Do Your Hauling By Daylight

Many a farmer knows the discomfort of rising hours before dawn in order to reach the market in the nearest city miles away, in time to sell his produce.

With a Reo Motor Truck, you can start later, and still reach town as early as you wish—ahead of all the others, if you want to beat the crowd.

And then back to the farm in a hurry,—with a full load if you wish. No tired horses; no lost time, and you can get more money for your produce when it arrives in perfect condition.

Many farmers take two and three loads a day to town, with a Reo Truck where they formerly were able to haul but one. The Reo will pay for itself in a very short time.

Reo Model H costs but $750, if you buy it. If you don't buy it, it is costing you money every day that you keep on hauling with horses.

Write us today for some real, solid, money-saving information about Reo Motor Trucks, and how they will help you.

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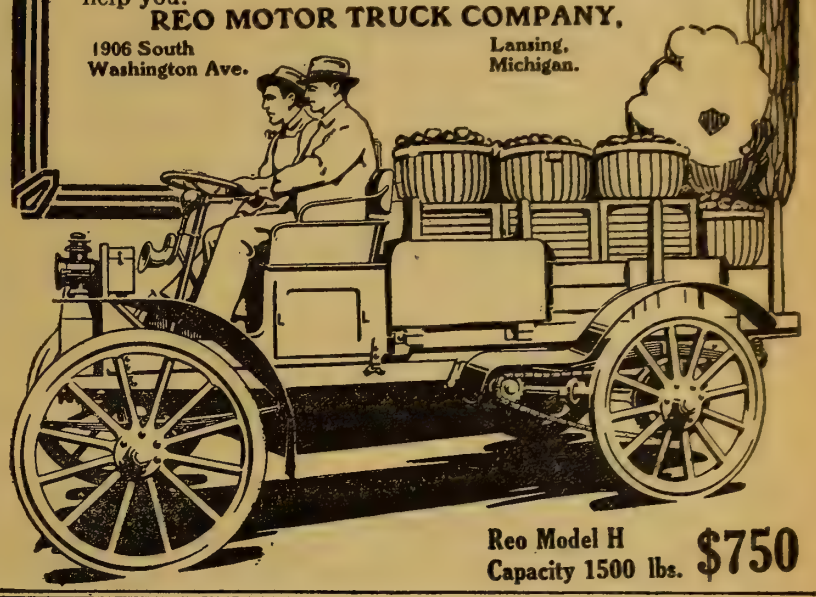
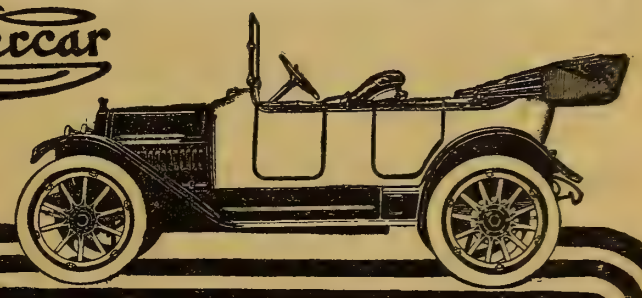


Reo Model H
Capacity 1500 lbs. $750

Cartercar



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Has proven 100% efficient under all tests. One of the best electric starting and lighting systems made.

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Send for catalog today and learn about this remarkable service car. It's the car you'll buy when you understand it.

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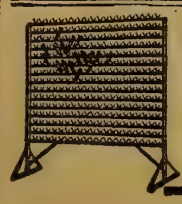

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THE WHITWORTH CORN DRIER

It's one of the most useful devices for the corn grower ever invented. Dries every kernel thoroughly; no moulding. Will hold 600 ears, each one separately and rigidly in its place. You see them all at a glance. Rack is 6 feet high, 6 feet wide. Frame of heavy steel bars; pins heavy galvanized steel wire.

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CHAMPION MFG. COMPANY, P. O. Box 4358, Cedar Rapids, Iowa

The Insecticide Law

requires the plain printing, on each package, of the amount of inert material used, or the material which the Government considers of no value for insecticidal use. Every purchaser of an insecticide should consider this point and should see that the insecticide guaranty is given by the manufacturer on every package.

LEE'S LICE KILLER contains only 3 per cent inert matter (water). Others contain from 10% to 80% inert matter. Used for poultry and hogs. $1.00 per gallon. No dusting, dipping or greasing.

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The **Lee Line** of Foods, Insecticides and Remedies is sold by more than 10,000 dealers in the United States and in many foreign countries. If not at your town, send for latest poultry book and name of nearest agent.

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The SURE, SAFE, Humane Horse Cure

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The **O. H. C. Hog Oiler**, using crude oil will kill the Lice and make the skin smooth and healthy. Small expense; no labor. Sold on Positive Guarantee. Satisfaction or money back. Endorsed by Leading Breeders. ***Can of Oil FREE.*** *Saves cost of "Dip." Write for particulars.*

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

CHOLERA.

Would like to know what is the matter with my pigs. They are about four months old. They have good clover pasture and some corn. They seem all right up within two or three days before they die. I killed two that were ailing. In the first one there wasn't a worm, but the lungs had dark red spots on them. I guess about half of the lungs had turned that way and liver had white spots on it; the kidneys when cut open looked yellow. The second one I killed the lungs were about the same as the first and also the liver, but the kidneys looked all right. They seemed to have a cough, but not bad. Can you tell me what to do for them and what is the matter?

The symptoms suggest hog cholera and you should have a veterinarian make a post mortem examination and immunize the remaining hogs with serum, if he finds cholera present.

SWEENEY.

I have sweenied a horse and have put a hole at the bottom and pumped it full of wind. Have I done the right thing? Will the air come out alone, and how long will it stay under the hide? Is there anything else to be done with this, and about how long will it be before a horse can be used in a case like this?

The treatment is unnecessary and cruel. It is apt to cause blood poisoning. Better press out the air as soon as possible. Hand rub the wasted parts three times a day and at night rub with liniment. In bad cases it is necessary to blister the wasted muscles several times to encourage flow of blood and growth of muscles.

FISTULA.

A bunch of fistula came on top of a horse's shoulder and broke. I know this is fistula and would like to have a cure for same published.

It will be necessary to lay open each pipe and pocket to insure perfect drainage, then swab with tincture of iodine twice a week and once daily pack the cavities full of oakum saturated in a mixture of equal parts of turpentine and raw linseed oil. A qualified veterinarian would also give hypodermic injections of polyvalent of autogenic bacterin.

TUMOR.

I have a cow that has a lump in each of her hind teats. These lumps are about the size of small marbles and move up and down when we milk. The cow is in good health and gives as much milk as usual.

Nothing short of an operation will remove the lumps and as they do not affect the milk flow they should be left alone at present.

MATURE vs. IMMATURE SOWS.

To the Editor of The Homestead:

It is an error, quite frequently made, to dispose of the mature sows because they are heavier and will bring more in the market than the young ones, and to keep the immature females to breed from. There are several reasons why the young sows do not do as well and are not as profitable as the mature sows.

In the first place, the young sow is immature, is growing and is not developed in bodily form, and consequently when called on to produce a litter of pigs during that period she is doing double duty—growing toward mature size and carrying and feeding the young all at the same time. For the reason that she is doing double duty, she has not the large supply of blood and nourishment to feed the young pigs before birth that the mature sow has, and the pigs are smaller at time of birth. She is not likely to farrow as many pigs at the first litter as she will in later years. The pigs from the young sows do not grow as large as those from the older ones, and there is a tendency to reduce the size of the animals raised from them.

During a great boom with any one breed, where there is a demand for all the females, both young and old, for breeding purposes, there is a noticeable diminishing in size of the animals, especially from the young ones, and the breed deteriorates in the general quality of the animals. The inferior ones as well as the good ones are bred from, which is disastrous to the general standing of the breed.

In breeding, the best is none too good. The mature sow that has proved her ability to bring large litters of pigs, in which there is a large percentage of good ones, is a valuable animal to keep. Fecundity is a desirable characteristic, as one does not need to be at the expense of feeding as many sows to keep up the supply of pigs as when they have small litters. The mature sow has a large amount of blood and nourishes the pigs well while carrying them. The pigs are large and strong at time of birth, often reaching double the size and weight of those from the young sow.

After pigs are farrowed, the mature sow is capable of giving a good supply of milk that will start the pigs growing rapidly. When they have had their stomachs well expanded, it is not a difficult matter to keep them growing. If the pigs are kept growing along rapidly a given amount of gain in weight can be more cheaply produced than if grown slowly. A certain amount of feed is required to sustain life, and therefore the most rapid gain is the most economical.

There seems to be an impression that sows will cease breeding after they are three or four years old. That is a mistaken idea. There are cases on record where sows have bred until twenty-five and thirty years of age. If a sow skips one season in breeding, she should not be condemned. Cows do the same occasionally and we think but little of it. There may be good reasons for such occurrences.

It will be well to consider some of the facts in connection with the subject before feeding the old sows off and keeping the young, immature ones for breeders. It is ultimate profits to be looked for, and as the old sows breed larger litters of pigs of better size and capable of growing more rapidly than those from the young ones, they are more profitable to keep.

W. H. Underwood.

The "lobby probe" at our capital is the cause of some mighty interesting reading and as usual is starting the cry of "muckraking" on the part of those who happen to be touched by the rake. Muckraking is, no doubt, dirty work, but it may be as necessary as cleaning stables. The only queer part of it is that there should be so much muck to rake where only honor and honesty should be found.

If in doubt what to do with the old roosters just "kill 'em an' eat 'em." They are only a nuisance about the yard after this.

"Capewell" HORSE NAILS

ARE you personally interested in the shoeing of your horses? You can't afford to neglect the matter. Feeding and grooming are not the only requirements in horse care.

If—from using cheap, inferior nails, or other causes--horses' feet are not fit for travel the animals become a failure for transportation uses.

Personally interested owners have "Capewell" nails used. They find them safe, reliable, economical. Not cheapest regardless of quality but **the best nail at a fair price.** All shoers can afford them. Most high-class workmen do use them.

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LARGEST MANUFACTURERS OF HORSE NAILS IN THE WORLD

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Saving horses all suffer from diseased eyes.

"Visio" will convince any horse owner that it is the best remedy for defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "Visio" under our money back guarantee.

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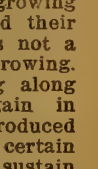
A combined wire stretcher and splicer, fence machine, lifting and pulling jack, cider press, post and stump puller, cable maker, vise, wrenches and complete handi-kit. Used by Farmers, Contractors, Teamsters, Threshermen, Factories, Mills and Mines. Capacity 2 to 4 tons. All steel and malleable iron. *Guaranteed for Life.*



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Let me save you $50 to $75 on the best portable elevator and wagon dump ever built. You can't buy a better built, stronger, faster working or handier outfit than the Galloway at any price, so why pay nearly twice my price to your dealer? Why not buy a Galloway direct on my positive 30-day free trial offer at my one-factory-profit plan and save $50 to $75?

Last year we were clear oversold before the season was hardly started. This year we are prepared to supply you promptly if **you get your order in at once.** Now, don't wait. You can't afford to be without a good portable elevator because it will pay for itself the first season. But don't buy a portable elevator of any size or make at any price until you get my big book telling you about the new Galloway.

Write Today for Low, Direct Factory Prices

Built with metal bottom, grain tight. Any length, 24 feet or more. Equipped for operating by sweep horsepower or gasoline engine. Simplest and most powerful hoisting arrangement ever used on any elevator—easier to raise and lower than any other. Will handle a load of corn or small grain in two to five minutes. Requires less power to operate. Power can be applied from either side. Wagon dump will work on either side. Is suitable for either single or double cribs. Has overhead lifts so you can use it at butchering time to advantage. It's just the outfit you have been looking for.

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Wm. Galloway, Pres.

WM. GALLOWAY COMPANY
11 Galloway Station Waterloo, Iowa

521

3 to 5 Cents Per Bushel More—

—That's what a stand of "Turkey Hard" wheat from my selected seed will mean to you. (Look at the market reports.)

—Ask any grain man why "Turkey Hard" outsells all other hard winter varieties.

—He'll tell you why, quick. He'll tell you that "Turkey Hard" has the high percentage of gluten that millers and bakers want—that they will pay more for the wheat that has more of it, because it *makes more bread.*

—The extra they pay is the extra *you* get—that is, it is if your wheat is "Turkey Hard". And it will be—every gluten-filled, flinty kernel of it—if you plant my standard

Turkey Hard Seed Wheat

—I want you to put in "Turkey Hard" this fall. You'll be as enthusiastic about it as our Kansas farmers are, once you've raised a crop of it, and pocketed the extra price it brings.

—I'll ship you the right seed—no seconds, no thirds, no dirt, no shrivelled stuff—but real, genuine "Turkey Hard" seed; seed that I subject to the strictest of tests for purity and germination; seed that will produce wheat of marvelous vitality—wheat that will live and grow and yield big in spite of the dry weather conditions that ruin other varieties—Turkey Hard seed, the pick of the Kansas acreage—that's what I'll send you.

—Write me today about this matter. Just say, "McCullough, send me your special Turkey Hard Seed Wheat Proposition with samples."

—I'll do it at once, so you can place your order for your next year's seed before I'm all sold out of "Turkey Hard".

McCULLOUGH
"The Seed Wheat Man"
208 Sedgwick Bldg., Wichita, Kansas

LANDS AND HOMES

THE OPPORTUNITY

WANTED. Married man with some help of his own preferred, to farm 200 acres of land and milk 20 to 35 cows. Man to pay cash rent for pasture, furnish his own teams and machinery and deliver to barns one-half of the crop for the rent of the farm and hay land. We will furnish a splendid herd of pure-bred Holsteins, large enough to consume your half of the crops and pay you a liberal price for all growth and gain put on young stock. Bordon's price for milk (average $1.75 per 100 lbs. this year). One-fifth of the money received for milk to go to us for furnishing you the cows. Pleasant location. Good house. Up-to-date cow barn and one of the finest herds of Holsteins to be found anywhere. Cows that give from 10,000 to 15,000 pounds of milk per year or three times as much per year as the ordinary cow. This place will be open between Jan. 1 and March 1, 1914. The chance of a lifetime and a permanent place for an up-to-date hustling, ambitious farmer and dairyman. Write us for full particulars, stating in your first letter full particulars about yourself, giving age, nationality, size of family, what experience you have had with dairy cattle, etc.
WOODLAWN FARM, STERLING, ILLINOIS

FOR SALE

THE best grain and stock farm in fertile Southern Minnesota. 480 acres in Steele County, just outside city limits of Owatonna, a city of 7,000 population. 360 acres under cultivation, balance in tame grass. 8-room house, large barns and other buildings complete. Will divide into 320 and 160 acres. For full particulars address owner.
G. P. CARDOFF - OWATONNA, MINN.

BUY FROM OWNER AND SAVE COMMISSIONS 80 ACRE FARM with six-room house, large barn, blacksmith shop and other buildings, 9 miles from Bay City, Mich., on good stone road. Three churches, schoolhouse and two stores one mile from the place. Sugar beet station within two miles. Soil dark clay loam. Considering location, this is a pleasant place for a home. Price $7,500. $2,500 down, balance can run any length of time at six per cent. Address
Wm. Lockwood, Route 3, Auburn, Mich.

LANDOLOGY FREE A magazine giving the FACTS in regard to the land situation. 3 months' trial subscription. If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it *"Personal"* and say *"Mail Landology and all particulars free."*
Address: **LLOYD M. SKINNER, Gen. Mgr. Yddmore Land Co., 123 Hall Ave., Marinette, Wis.**

Southern Minnesota Corn Farms
FIVE improved farms in Blue Earth county, 25 miles from the Iowa line. Two 120 acres, two 160 acres, one 400 acre. Prices cheap, terms easy, good reasons for selling.
B. F. McGREGOR - MAPLETON, MINN.

A 164 ACRE FARM near Nevada, Mo., for sale on easy terms or exchange for unimproved land. Also good 120 acre farm Taylor county, Iowa, for sale. S. G. Hunter, 2812 Cottage Grove Ave., Des Moines, Iowa.

When writing to advertisers please mention The Homestead.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer, who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

POSSESSION UNDER LEASE.

Mr. J. P. Anderson, Anamosa, Iowa.—About twelve years ago I bought my farm of sixty-seven acres, more or less, and paid cash therefor. I got a warranty deed and abstract of title. Afterwards I learned that a strip occupied by a lane and a slaughter house yard was on my land. The party claiming the strip has no deed to it, and no deed to it was ever made by any former owner, but the party claiming the strip claims to hold by an old lease of it, made twenty-five years ago. The then owner of the farm sold it, giving a warranty deed and making no reservation of said strip and the farm has passed through several hands since then. Can I recover possession of said strip by law?

Answer.—Unless the lease mentioned is valid and still in force you can recover possession of the strip by law. It is not at all likely that a lease made twenty-five years ago is still in force. It probably was made for a short time and expired many years ago. Possession of the strip for twenty-five years by parties claiming under a lease would not give them title by adverse possession, and they would have only such rights as the lease actually gave them.

TIMBER LAND—FENCES—WILLS.

A Subscriber, Glenwood, Iowa.—(1) A owns a tract of land a quarter of a mile from the public road which he uses for timber only. B owns land on three sides of it, which he uses for farming and pasture. C owns land on the fourth side of A's land, which he uses for timber only. A has to drive along the fence on B's land to reach his land, and has been doing so for twenty-five years. Can B prevent him from doing so? (2) Can B compel A to construct a hog-tight fence on the three sides of A's timber land? (3) Last summer B took down his wire fence in one place so his stock could get in A's timber for pasture and A drove the stock back and nailed up the wires. Can A recover damages from B? (4) A farmer died several years ago, leaving a will by which he gave his wife all his personal property and a life interest in his real property, the real property at her death to go to their son, the farmer having no other heirs. The will was set aside and the widow took the personal property, and the real property was divided equally between the widow and the son. The widow has several brothers and sisters. Can she will all her property to them, leaving none of it to her son? (5) What is the usual fee of attorneys for breaking a will?

Answer.—(1) B can prevent A from driving over his land. The proper course for A is to buy or condemn a right of way over B's land for a private road. (2) He cannot. The owner of timber land used only for the timber thereon is not required by law to fence it. (3) A cannot recover damages from B. (4) The widow can will all her property to her brothers and sisters and disinherit her son, and such will cannot be set aside for that reason. (5) There is no usual or uniform fee. It would depend upon the circumstances of the case, the amount of property involved, etc.

LIEN FOR STALLION SERVICE CHARGES.

A Subscriber, Dow City, Iowa.—(1) A bought from B a mare with foal and nothing was said at the time about who should pay for the colt. C, who is the owner of the stallion, wants A to pay for the colt. Can C recover the service fee of the stallion from A? (2) Is a service fee lien good after the mare has changed hands when no agreement has been made about it before the change was made?

Answer.—If C complied with the law about advertising his stallion for public service he has a lien on the colt foaled by the mare for six months after the birth of the colt, and within that time he may place in the hands of a constable an affidavit containing a description of the stallion and of the mare, and the time and place of service, and then the constable must take possession of the colt and sell it at public sale giving ten days' notice, and out of the proceeds pay costs and the service fee, returning balance to owner. (2) A service fee lien is good after the mare changes hands, though no agreement is made by the parties.

LANDS AND HOMES

CHOICE FARM AT PUBLIC SALE!
1,000 ACRES OF FARMING LAND FIVE MILES FROM MT. VERNON, Davison County, South Dakota.
THURSDAY, AUGUST 7, 1913, AT 2 O'CLOCK, AT THE FARM

This choice farm consisting of six quarter sections (NW¼ of Sec. 7-102-61, the NE¼ of 1, SE¼ of 1, NE¼ of 12, SE¼ of 12 and the SW¼ of 12-102-62), will be sold to the highest bidder in tracts of not less than one quarter section. The land is all in a body without one foot of waste land. $2,500 has been spent for tiling and the land is in good shape for cultivation. It was purchased by the present owner some ten years ago for a stock and grain farm and for a number of years up to 300 head of cattle were fattened annually. Every acre will grow corn or alfalfa. Seventy-five acres of well-set alfalfa at the present from which the second crop was cut July 10th. Over 800 acres of this land now under plow. On rural free delivery line and local and long distance telephone in the house.

The improvement consists of a modern six-room house, furnace heat, running water, large basement and cistern, large barn in only fair condition, splendid granary of 8,000 to 9,000 bushels capacity with wagon dump, elevator and eight horse power gas engine. Under this is basement shop or storeroom. There is a large chicken house, sheds for cattle, hogs, etc. These buildings are situated in a good grove and the feed lots are well protected. The farm has seven to eight miles of fence mostly three and four wire except the alfalfa hog pastures and large garden which have woven wire.

TERMS: 10% of purchase price on date of sale, 10% more on November 1, 1913; 20% or more March 1, 1914; 60% may be left in the form of mortgages dated March 1st, to run for a term of years at 6% with the privilege of paying any or all of it any interest paying date.

Homeseekers' Excursion rate on the C. M. & S. P. R. R., August 5th. Land can be inspected at any time. For complete information write
CAREY M. JONES, & CO, Auctioneers, Chicago, Illinois
G. W. DOWNS, Owner, Mt. Vernon, South Dakota.

FOR SALE BY OWNER
Red River Valley Farm
IDEAL 612-acre potato, corn, small grain and dairy farm with $10,000 farm equipment, including new gas tractor, plows, separator, 14 horses and 30 grade Jerseys; 100 acres timber; farm fenced. $8,000 worth new buildings, consisting of 10-room modern house, with furnace; large hip-hoof barn, small dairy barn, machine shed, 7,000 bu. granary with grain-lift, ice house with refrigerator rooms, chicken house, 2,500 bu. potato cellar, and 3,000 bu. roofed corn crib. Good well and windmill. 500 acres now in crop. Reason for selling: My duties as U. S. district judge prevent my giving farm proper attention.
This farm is beautifully situated high and dry on Red River, 3½ miles from station in best portion of Red River Valley of North Dakota; 10 miles north of Fargo, city of 18,000 with several colleges including state agricultural college. Price $100 per acre, including crop and above equipment. Reasonable terms. Only responsible persons need apply.
C. F. AMIDON, FARGO, NORTH DAKOTA

FOR SALE
AT a bargain, improved half section farm in Minnehaha county, South Dakota, three miles from depot. For particulars inquire of
M. GRIGSBY, SIOUX FALLS, S. D.

MISSOURI FARM HOME
554 ACRES, high-class stock and grain farm, adjoining Pleasant Hill, Cass Co., Mo.; 27 passenger trains daily; 30 miles from Kansas City, rock road all the way; black, rich soil, nearly all in grass; excellent spring water, never failing wells, fine lake; 2 set improvements; 9-room brick house at edge of town, electric lights, city water, modern conveniences; massive evergreens in front yard; one of the best homes and investments in state. $110 per a. Terms.
THE JONES LAND AND INVESTMENT CO., (Inc.) PLEASANT HILL, MISSOURI.

SPLENDID NEBRASKA FARM
ADJOINING the city of Hebron, two thousand population, has splendid churches, schools, etc. Farm contains 160 acres, well improved. Eighty acres in alfalfa, fenced and cross fenced hog tight. Land slightly rolling. All tillable. Terms on part. Address at once
O. C. COWEL, OWNER, HEBRON, NEB.

RICH FARM
FOR SALE 1040 acres rich soil, Becker Co., Minn. Suited to farming or stock raising. Flowing wells. Could be divided.
F. C. WORTHINGTON - AURORA, ILL.

14,000 ACRES of the finest farm land in Colorado. Wheat yields from 30 to 46 bushels per acre. Other crops in proportion. Fine water and close to market. One crop pays for the land. Free circular. Platt River Valley Land Company, 1119-22 City National Bank, Omaha, Nebraska.

FARM FOR SALE
80 ACRE improved farm two miles from city of Eau Claire, Wis. Rural mail and telephone. Good soil and buildings. Price $5,000 cash or terms. **R. E. Burce, Owner, Eau Claire, Wis.**

MINNESOTA, greatest dairy state in Union. Millions acres wild land in best dairy section of state can be bought cheap; long time; easy terms. State school lands, free homestead lands, improved farms, Maps and literature sent free. Fred D. Sherman, Commissioner of Immigration, Room 208 State Capitol, St. Paul, Minn.

FOR SALE: 1200 ACRE stock and grain farm in Brookings Co., South Dakota. This is a choice farm and will be priced right. Easy terms. Address owner, M. A. McWilliams, Wall Lake, Iowa.

NORTH Dakota land. We own a number of tracts that we will sell below value on easy terms. Send for descriptive pamphlet and state wants. E. J. Lander & Co, Grand Forks, N. D.

Iowa Lands For Sale in Howard county, $65 to $100 per acre. Large list on request. Address **SPAULDING & O'DONNELL, Elma, Iowa**

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

FARM FOR SALE 160 acres improved. One-third cash. **M. A. Heath, R.F.D.1, Swaledale, Cerro Gordo Co., Iowa**

WYOMING CAREY ACT LANDS
IN THE VALLEY OF EDEN
Fertile Soil. Perpetual water Rights, $30.50 per acre, long time, easy payments—easier than paying rent. No Cyclones. No Drouths. No Floods. No spot in the U. S. more healthy. No better stock country on earth. Health and Fortune awaits you. Homes that pay for themselves Rich virgin soil. Big crops of Alfalfa, Grains, Vegetables and small fruits now growing in the Valley. Do not let this opportunity pass, but write at once to
E. H. MORGAN,
Sales Mg'r. Eden Irri. & Land Co.
Rock Springs, Wyoming.

Pasture for Stock
THERE'S fine tame grass pasture land for a million head of stock absolutely going to waste in Wisconsin. Come and see for yourself. Have some wild land, also some finely improved farms that will surprise you when you see the grass and the fine crops. I can show you as fine a country as old Iowa, with even better crops. Write me either at
Mikana, Wisconsin, or 603 Pioneer Bldg., ST. PAUL, MINN. GEO. R. SLOCUM

NORTHERN MISSOURI FARM FOR SALE
GOOD 345 acres in Lynn county, only 60 miles from Iowa line. All good soil and can all be farmed except 90 acres of timber. Fair improvements. Would consider a trade for a smaller Iowa farm and some cash. Write
ROY E. BULECHEK - - HILLS, IOWA

FOR SALE
RICH PRODUCTIVE 160 acre Red River valley farm, good neighbors, healthy country, fine markets and a bargain at $5,000. Terms, $1,500 cash, balance easy. **FRANK P. CLEVELAND, Owner, 1279 Adams Express Building, Chicago, Ill.**

Minnesota Farm Lands
WHY pay local land agents $3 to $10 per acre commission? Purchase from us direct. Our banking connections furnish farms in Minnesota and Red Tiver Valley away below present values. Let us know what you want.
FARM LAND INV. CO., ST. PAUL, MINN.

AUCTIONEERS
LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

100 CHOICE farms in the garden spot of Southern Minnesota, where corn is king. Price $60.00 per acre and up. Prices advancing rapidly. Come now. Free List. The Paffrath-Schmidt Company, Springfield, Minnesota.

SOUTHEASTERN KANSAS
IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

FARMS WANTED We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property **free.** American Investment Association, 33 Palace Bldg., Minneapolis, Minn

FOR SALE—Eastern North Dakota, slightly rolling quarter section; no improvements. One mile from county seat, black soil; town has 5 elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Ave., Peoria, Illinois.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. Address **SEWELL LAND CO., Garnett, Kan.**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

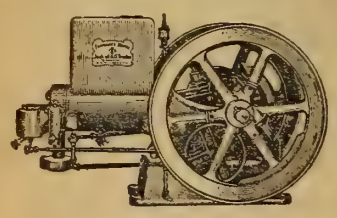
TRY LOCATING in FLORIDA—Best situated and most fertile land—rent free for five years, with privilege of buying. G.W.Soule, Camp Walton, Fla.

MISSOURI FARM LANDS. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

ARKANSAS land. Low price, Easy Terms. Map and booklet free. Geo. R. Lochrie, Gifford, Ark.

Jack of All Trades
Kerosene Engines

More Power *Half the Cost*



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High Grade Engines At Remarkably Low Prices

Jack of All Trades are strongly built of best materials. Large bearings. Ample Lubrication. All parts accessible—you can get at every nut with a simple S wrench.

2, 4 and 6 h. p. Horizontal. Also 2, 4 and 6 h. p. Vertical. Other types up to 500 h. p.

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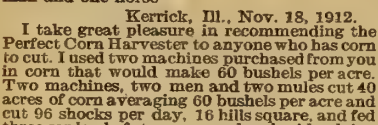
Fairbanks, Morse & Co.
900 So. Wabash Ave., Chicago, Ill.
Fairbanks Scales, Oil Traction Engines, Water Systems, Electric Light Plants, Pumps Windmills, Feed Grinders.

The PERFECT CORN HARVESTER

SOLD DIRECTLY TO FARMERS

$18.00--Freight Prepaid



The correctly adjusted machine to **cut for shock or silo.**

Works in all kinds of corn and on all kinds of soil.

No breaking off of ears or pulling of stalks. Absolutely safe.

Cut from five to ten acres a day with one man and one horse

Kerrick, Ill., Nov. 18, 1912.

I take great pleasure in recommending the Perfect Corn Harvester to anyone who has corn to cut. I used two machines purchased from you in corn that would make 60 bushels per acre. Two machines, two men and two mules cut 40 acres of corn averaging 60 bushels per acre and cut 96 shocks per day. 16 hills square, and fed three car load of steers every day, besides doing other chores, and were all through with their day's work by six o'clock every night. I would be glad to have you refer anyone to me for any further information. Very truly, L. H. Kerrick.

Send today for booklet on "Cutting Shock or Silo Corn."

LOVE MANUFACTURING COMPANY, Dept. 15, Lincoln, Ill.

ALFALFA **$7.50 Per bu.**

Best Non-Irrigated Seed---99.6% Pure

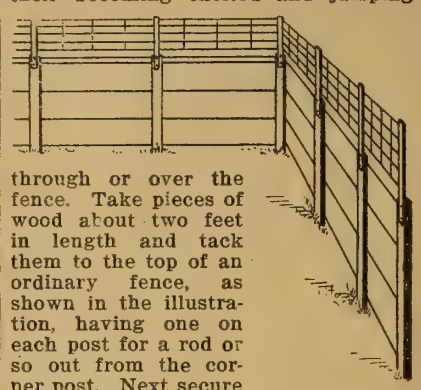
95% germination $9.75. Absolutely guaranteed. Northern grown, extremely hardy. No seed better. Have Turkestan alfalfa, grass seeds all kinds. Ask for our Latest 60 p. Book on growing alfalfa, Catalog and Samples. **All Sent Free.** We can save you money. Write today.
A. A. BERRY SEED CO., Box 403 CLARINDA, IOWA

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

TO CORNER A FRACTIOUS ANIMAL

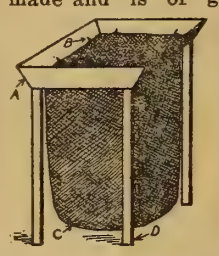
The following illustrated device will be found very convenient and effective on the average farm. While we, of course, like to (and do) keep on intimate terms with most of the farm animals, there are times when all of us have wished that we had a corner in the lot where we could hem some of the stock up and crowd right up and catch them without any danger of their becoming excited and jumping



through or over the fence. Take pieces of wood about two feet in length and tack them to the top of an ordinary fence, as shown in the illustration, having one on each post for a rod or so out from the corner post. Next secure a piece of ordinary woven wire from eighteen to twenty-four inches high, and tack it to these pieces above the posts. When crowded into such a corner, an animal is pretty apt to quiet right down and allow one to capture it, where, if it were an ordinary fence, it might attempt to go through or over it, perhaps greatly damaging or fatally injuring itself; so that the plan is not only one of convenience and a saving of labor, but guards against the injury of stock and tends to keep them more gentle and tractable.

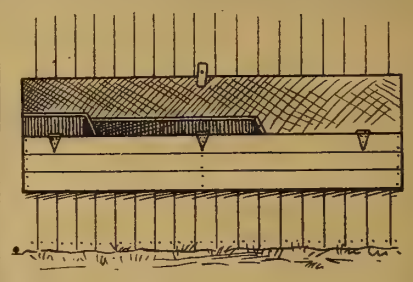
Sack Holder.

A handy sack holder can easily be made and is of great convenience, especially where one man must work alone. The accompanying illustration shows one which will give very satisfactory results. To make the hopper, A, take four boards eight inches wide and saw them slantingly in such a way that the top will be thirteen inches wide and bottom seven inches wide. The legs, D, are made of one by two's, or two by two's. B represents nails driven through the hopper leaving the points exposed to hold sack, and C is the sack.



Preventing Stallion Accidents.

The accompanying cut shows how accidents may be avoided with the stallion when his regular keeper is absent or sick, or for any reason unable to attend to him at feed time. Most stallions do not care to have strangers around them, and in case it becomes necessary for the boys or some of the women folks to feed the



stallion, he is very apt to crowd out of his box stall and get away, perhaps injuring the person who had to open the door to feed him. Not only can the stallion's grain and roughage be fed through this opening without entering the stall, or even tossing feed in through the open door, but water can be carried and set in the manger for him, thus avoiding all danger whatsoever in caring for the animal. Care should be taken, however, in reaching the hand too far into the opening, as a playful nip of the stallion's powerful teeth is apt to snip off a finger or painfully lacerate an arm.

Convenient Hay Frame Stand.

Set four posts in ground so that their tops are the same height as the rear wheels of the wagon, placing the pairs of posts eight or nine feet apart and the posts in the pairs about four feet and six inches apart. Securely fasten a strong four by four over tops of posts that are four feet and six inches apart, and on top and in the center of this nail a two by four twelve inches long, boring a one-half inch auger hole through both pieces. Then take a three by four or four by four, four feet long also having a one-half inch auger hole in center and drop a half-inch bolt through these two pieces, as shown in illustration, leaving it loose enough so that the top piece will turn freely on the lower piece. Take off the back of frame first and the turning pieces will produce the same results as the front wagon bolster. By placing the stand along fence as shown it saves two posts and makes it more solid.

Large Kettle Stand.

There should be a stand to support the large kettle, as the old method of hanging it every time it is used takes too much valuable time and is too difficult. The legs should be securely welded and riveted to the band so there will be no danger of them coming off when the kettle is full. Only three legs should be used in order to make the kettle set level.

The rapid growth of the corn during the hot, moist period of the last two weeks has been remarkable. Even the late planted and unpromising fields now show up well, and the prospects for a full crop are as good as they were last year at this time.

TIRES AND TUBES AT CUT PRICES

We are offering now to motor owners all over the United States standard make tires at the lowest prices ever heard of. These are not a lot of old nameless tires. Every one is a well-known make, such as Fisk, Diamond, Goodyear, Empire, etc. Take your choice. This partial list gives you some idea of the reductions:

30x3	$10.10
30x3½	14.20
32x3½	14.90
33x4	21.00
34x4	22.00
36x4½	29.00

Write today for complete price list and money-saving circular.

NATIONAL TIRE CO.
1621 GRAND, KANSAS CITY, MO.
Dept. H. Ask any bank

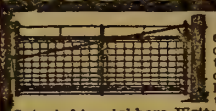
In Cement Floors and FOUNDATIONS Use ROSS FOR Studding SOCKETS

The "100-Year" Post Support

Simply tap sockets down into soft cement. No sills to rot. No toe-nailing to rust. Fits *any* upright. For Cribs, Granaries, Barns, Sheds, Garages, etc. Write today for FREE Booklet. Learn how to make upright supports *everlasting*. Get book—"How to Build Cement Floors and Foundations."

G. M. ROSS & CO.
274 Broad Street Grinnell, Iowa

Do You Want This Steel Gate FREE



One farmer in each community can get one for helping us introduce Tro Jan Gates to his neighbors. Write for particulars.

The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 30 days' trial at our special direct-to-you factory price.

W. K. VOORHEES, Mgr. Standard Mfg. Co.
300 Main St. Cedar Falls, Iowa

Save $50 to $300

Yes sir, you can positively save that much *or more* by buying your gasoline engines *direct from the manufacturer.* I am out to triple my gasoline engine business and I'm going to do it because I am making three engines where I formerly made one and I'm making prices that are selling them like wild-fire. Before I started manufacturing gasoline engines and selling them direct to you farmers, dealers used to get $225 to $300 for 5 H. P. Engines that were far inferior in quality to the famous 5 H. P. Model which I put on the market at the unheard of price of only $119.50.

Now I Am Making a Still Bigger Cut Just notice my *new* prices, only $99.50 for my famous 5 H. P. engine and other sizes in proportion. Here's your chance to get an engine this year at a price never before equalled—an offer made possible by my increased production. Act *quick*—these prices are *good for 60 days only.* Write me today for my big engine catalog and special 1913 offer that will help you get your engine partly or entirely without cost to you in the end. Don't wait. Don't put it off. Write to Galloway today.

GALLOWAY GASOLINE ENGINES

I can ship you any size from 1¾ H. P. to 15 H. P. either stationary or mounted on hand or horse portable trucks or equipped with wood-sawing outfit. Over 30,000 in actual use today in all sections of the country and 31 foreign countries, and all sold on a positive 30 day Free Trial Privilege backed by a $25,000 legal bond and a 5 year warranty on materials.

Free Service Department: My corps of engine experts will tell you how to install and use your engine and equipment to the best possible advantage. This service is free to users of Galloway engines.

My Big Engine Catalog tells all about the complete Galloway line —my big Pumping Engine Catalog shows my unequalled line of pumping engines and several special outfits. Write today for catalog desired and new, special 1913 offer. Do it before you lay this paper down. Just address:

Wm. Galloway, Pres., WM. GALLOWAY CO., 15 Galloway Sta., Waterloo, Iowa

We can ship same day order is received from either Waterloo, Chicago, Kansas City, Council Bluffs or Minneapolis warehouses

New Silo Book FREE

It's full of valuable information for every farmer and stock raiser. Tells all about the special and exclusive features of the famous

INDIANA SILO

Twenty-Five Thousand in use. Write and learn why it is best and cheapest and get our New Silo Book Free.

INDIANA SILO COMPANY

Distributors, Papec Ensilage Cutter. The largest makers of Silos in the world. Address nearest factory: 521 Union Bldg., Anderson, Ind. " Indiana Bldg., Des Moines, Ia. " Silo Bldg., Kansas City, Mo.

Get All the Cream

This Speed Governor will save $3.00 worth of cream a year, from each of your cows by operating your separator at a steady, uniform speed. Automatically starts separator slowly and gradually increases it. Any speed obtained while machinery is in motion, by turning hand wheel. For fanning mills, churns, washing machines, etc. Ask your dealer or write

CEDAR RAPIDS FOUNDRY AND MACHINE CO.
Cedar Rapids, Iowa.

A Special Proposition To Silo Buyers.

It will pay you to get full details of our offer before you buy any silo. Get our big portfolio showing how other farmers make big profits. Get our special factory prices on

Champion Silos.

The kind that makes good. Has all modern improvements, continuous door front, special anchors, double latch ladder, etc.

WESTERN SILO CO.
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Get Our Big Catalog.

Butter Profits

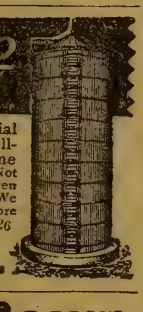
You ought to get more butter profits. Jersey Cattle mean more butter profits, because they yield more butter fat at less net cost of keep than any other breed.

THE JERSEY

excels in beauty of dairy type. She is a persistent milker. Jerseys are easily acclimated. They live long and keep healthy. They mean *steady* butter profits. Write now for Jersey facts. Free for the asking.

AMERICAN JERSEY CATTLE CLUB
324 W. 23d St., New York

Kalamazoo SILOS



Construction is right, material is right. Only silo made with full-length, structural steel door frame heavily galvanized after the riveting. Not a crevice exposed to rust. Choice of seven kinds of wood. Inflexible guarantee. We prepay freight. Catalog shows many more fine points, write for it today. Address Dept 26

KALAMAZOO TANK & SILO CO.
Kalamazoo, Mich. Kansas City, Mo.
Minneapolis, Minn. Ft. Worth, Texas

Only $2 Down
One Year to Pay!

$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half. (12)

ALBAUGH-DOVER CO.
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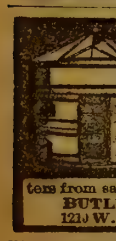
No. 6½



BUTLER STEEL **Grain Bin**

Corrugated. Can't Cave In. Rat-Proof. Fire-Proof.

Can be used for store house. Capacity increased by additional sections. Keeps grain perfectly. Large door and removable shoveling board. Ask for booklet showing letters from satisfied users.

BUTLER MANUFACTURING CO.
1210 W. Tenth Street. Kansas City, Mo.

BEATRICE Cream Separator

Big Capacity-Little Price

See a Beatrice Dealer or write to

BEATRICE CREAMERY CO.
Chicago Lincoln, Neb. Des Moines, Ia. Dubuque, Ia.

When writing to advertisers please mention The Homestead.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

BUYING AND SELLING DAIRY COWS.

To the Editor of The Homestead:

In the improvement and maintenance of a profitable dairy herd it is necessary to both buy and sell cows. The buying is, of course, for the purpose of bringing better animals into the herd, and the selling for the purpose of getting rid of the poorest. One must buy at a high price and sell at a low price and this is such a hard thing for a tight-fisted man to do that many farm herds are not improved at all.

The dairyman who owns a cow too poor to be kept in the herd should have the honesty not to sell that cow to another man who is trying to improve his herd. She should in all cases go to the butcher. One can improve his herd very rapidly by annually buying one good cow of large milk-producing capacity and at the same time disposing of his poorest cow. It is not necessary to increase the number of cows in the herd to increase the aggregate amount of milk produced. There are men in the milk-producing business who are trying to increase their milk supply by increasing their number of cheap cows. Never yet has a man made money by doing that. Usually that course leads to discontinuance of business.

Though one may have to search far for the kind of cow he wants, it will pay him well to do so, and especially is this true if he intends to retain her for a breeder. Every cow that is purchased for use in the herd should be bought with the idea of using her for a breeder as well as a milk producer.

There are two general places in which cows can be purchased—namely, on the farms and in the city stockyards. The farms have the advantage in that something may be known of the value of the cows thus purchased. A cow found in the stockyards is under suspicion of having reacted to the tuberculin test, though the suspicion may be without foundation. But it is best to be on the safe side and those really interested in the improving of their herds will do well to go out and hunt for the particular kind of cows they want.

Still, it should be borne in mind that tuberculosis is present in many rural localities, and some of the affected herds are losing individual cows from this disease, the owners keeping that fact a secret as much as possible. But in buying cows on the farm the chances of obtaining animals affected with tuberculosis are not nearly so great as in getting them at the stockyards, for it is a practice with many to send their cows to market as soon as there are indications of the presence of this disease. In buying cows, either on the farm or at the stockyards, it is, therefore, a wise measure of protection to have every cow tested with tuberculin before the payment of the cost money is made.

In the purchase of cows for the dairy, it is better to buy those that are about four years of age rather than younger. By that time the real ability of the cow to produce milk will have manifested itself. In the six years following that age the cow will produce her maximum yield of milk and will produce the strongest and best calves.

In selecting a locality in which to hunt for good cows, it is always well to find out what kind of bulls have been generally used in the different localities. Where dairy bulls have been extensively used, one will search with the best success for dairy cows of value. W. H. Underwood.

SOME DAIRY THOUGHTS.

To the Editor of The Homestead:

I have found in the use of silage that none is wasted in feeding, that all the corn crop can be used to advantage in the silo and that it is a good feed for producing cows. When all the feed given animals is consumed good results are sure to come, and this is an important item in any kind of feeding. Corn made into silage is cut into very fine pieces, reduced to a soft and palatable condition through fer-

You need a new DE LAVAL Separator NOW

1st — If you are still using some gravity or setting process of creaming—

Because your waste is greatest and quality of product poorest in mid-summer, when the milk supply is greatest.

Because time is of greatest value on the farm at this season and the time and labor saving of the good separator counts for most.

Because the skim-milk is poorest without a separator in hot weather and often more harmful than helpful to calves and young stock.

Because the work of an improved De Laval Cream Separator is as perfect and its product as superior with one kind of weather as with another.

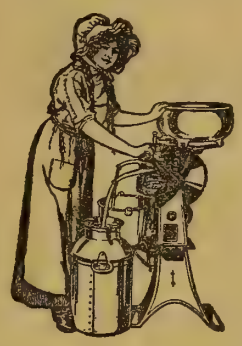
2nd — If you have a very old De Laval or an inferior separator of any kind—

Because the losses of the poor separator from incomplete skimming and the tainted product of the difficult to clean and unsanitary separator mean most when the bulk of milk is greatest.

Because of the great economy of time at this season in having a separator of ample capacity to do the work so much more quickly.

Because an improved De Laval separator is so much simpler and more easily handled and cared for than any other, and you cannot afford to waste time these busy days "fussing" with a machine that ought to have been thrown on the junk-pile long ago.

Because the De Laval separator of today is just as superior to other separators as the best of other separators to gravity setting, and every feature of De Laval superiority count for most during the hot mid-summer months.



These are all facts capable of prompt and easy demonstration, whether you have a poor separator or none at all. The new De Laval catalog, to be had for the asking, helps to make them plain. Every De Laval local agent stands eager to do so with a machine itself, with no obligation on your part to buy unless he does—and that to your own satisfaction.

WHY DELAY? Why put off so important a step as the use of the best cream separator, which you need more RIGHT NOW than at any other time?

The De Laval Separator Co.
NEW YORK. CHICAGO. SAN FRANCISCO.

HOLSTEIN CATTLE.

Pure-bred Registered
HOLSTEIN CATTLE

When you want to replenish your herd, you pay upwards of $100.00 apiece for cows without any guarantee that they will be good ones until tried at the pail.

Use a pure-bred Holstein sire of good individuality with productive breeding represented by his ancestry and you can raise better cows by far than you can purchase for any reasonable sum.

Send for Free, Illustrated, Descriptive Booklets.

HOLSTEIN-FRIESIAN ASSN., F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

HOLSTEINS FOR SALE

3 CAR loads high-grade Holstein heifers one to three years old. Some bred. Tuberculin tested. Prices right. **ROCK BROOK FARM, Station B, OMAHA, NEB.**

HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

FOR HOLSTEINS WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

Holstein-Friesian Bulls

FOR SALE — One thirteen-months-old bull by Dutchland Hengerveld Wilnona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address A. J. Podendorf. Logan, Iowa.

HOLSTEINS—Old and young bulls, cows, heifers, calves. Get our sale list. Prices low; quality the highest. Galloway Farms, Water loo, Iowa.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address

W. C. KENYON & SONS, ELGIN, ILL.

More Profits for You this Year

THE new 1913 Model "Ohio" Silo Filler outrivals *everything* we have *ever* offered you heretofore. It even overtops all the old "Ohio" models that held the leadership for *efficiency* at expositions and experiment stations. Here's the very *best* result of our 59 years' experience. The "Ohio" has always been the leader of the world—this year its most famous records are eclipsed in

The New 1913 Model "OHIO"

It has the *ideal* combination of *speed* and *economy*. With it you can now fill the highest silo *quicker*, *cheaper*, and with *better* cut silage than any silo man ever dreamed of.

Such features as the "Bull Dog" Grip feed rollers—the non-twisting, traveling feed table, the big throat opening, fan case, and 10-inch blower pipe that takes care of *enormous* capacity—the doubly braced knife cylinder (bearings at both ends) that insures uniformly cut silage by preventing the knives from springing away from the cutter bar—all have been improved to show *greatest possible efficiency*.

It's Easy to Make Profits With An Equipment Like This!

In the new "Ohio" the drive pulley, cutting cylinder and blower fan are all on the main shaft. This enables the big fan lift to operate at *low speed*, yet send silage to the top of highest silos.

Low speed means safety. You've never known an "Ohio" to explode. The low speed of the blower fan is boldly printed on every fan case—650 to 700 R. P. M.

The "Ohio" is made in all sizes—cuts all silage making crops—50 to 250 tons in a day on 6 to 15 H. P. Easily converted into a shredder.

Write For the Full Story

We want every man to know the profit making possibilities of silo filling with the new 1913 "Ohio." Send us your name today. You want an *economical* machine—get the facts on the leader—59 years at it and now better *than ever*.

In writing ask for "Silo Filler Logic" and new catalog.

The Silver Mfg. Co.
309 Broadway Salem, Ohio

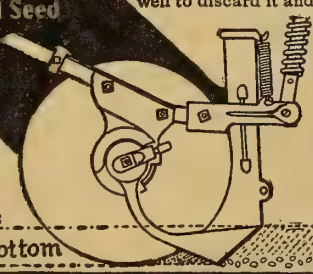
"Modern Silage Methods," 264 pages, mailed for 10 cents, coin or stamps.

The Only Drill With a Perfect Furrow Opener

HERE'S the drill that will greatly increase your crops and profits, just as it has done for hundreds of other progressive farmers. It is equipped with our wonderful DISC SHOE FURROW OPENER, the only one that combines every advantage of the single disc for cutting trash and penetrating hard ground, with every advantage of the shoe for forming the furrow and depositing the grain. It's the only furrow opener that packs the seed bed after the disc has opened the furrow. The shoe carries the seed to the bottom of the packed furrow. Every seed counts. Every seed is sown at a proper, even depth. So every stalk comes up and ripens evenly and the grain grades up best. The shoe prevents any dirt from falling into the furrow until after the seed is deposited.

The New Peoria Drill

Every Seed Laid in a Packed Seed Bed



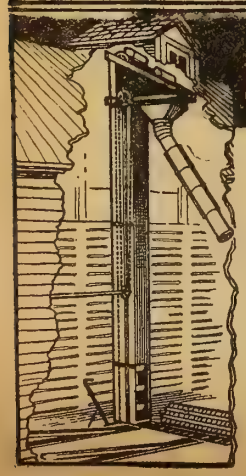
Surface

Furrow Bottom

is the only one equipped with this Disc Shoe Furrow Opener. So the New Peoria is the drill that is sure to increase your crops and save your seed. It is the drill that insures every seed the three essential requirements for successfully growing small grain—Heat, Air and Moisture. Even if you have a new drill of some other make, it will pay you well to discard it and buy a New Peoria,

Do not think that the wonderful Disc Shoe Furrow Opener is the only advantage of the New Peoria Drill. Every other part is just as superior. Let us prove it. You take no chances on the New Peoria. Every drill sold on an absolute guarantee. Let us send you a booklet and all the facts and figures, also opinions of men who know. Send your name and address on a postal now. It's worth money for you to know all the details.

Peoria Drill & Seeder Co.
2435 North Perry St., Peoria, Illinois



A MACHINE LIKE YOUR GRAIN DEALER USES

THE "Hart" Bucket Elevator is the most massive and securely made elevating device you can buy. Will work under all conditions and handles all kinds of grain, even coal, most economically. Withstands continuous usage without causing trouble This machine, when installed, requires less room, will not block your driveway and is always ready for use.

FINEST quality material is used. Buckets are made of pressed steel 16 inches wide attached to No. 77 sprocket chains. The "Hart" machine absolutely cannot clog. Grain cannot splatter over or carry back at the top. The special front panel, encasing the buckets, makes it impossible for grain to drop elsewhere than into the bin. Machine can be operated with overhead lift or log dumping device.

THE elevator can be installed in any of your cribs—or if you intend putting up a new barn or crib, ask for our **architects plans, furnished free**, to fit your exact needs. Just tell us capacity desired and type of elevator and we'll send information that you should have. Remember—buying the "Hart" machine means having a real elevating plant. Write today for catalog.

HART GRAIN WEIGHER COMPANY
Department A PEORIA, ILLINOIS

mentation in the silo, that it is much relished by the cows, and they leave none of it in the mangers to be thrown away.

Many dairymen seem to think that a cow is on full feed when she is allowed the privilege of good pasture or fed hay or fodder. Such is not the case. Hay and fodder are all right to be fed as roughage for the cow, but some nutritious and concentrated feed must be fed in addition to this if the cow is to do her best. Many cows are fed bulky feeds, and not fed anything to balance the ration. Consequently the cows do not give as much milk as is expected of them, and they are condemned as "poor milkers." The profit from a cow comes from the extra amount of milk she will give over what she ordinarily gives on pasture or coarse feeds. If the average cow was fed more concentrated food in addition to her fodder and hay, she could be made to produce much more than she does, and in most cases make a profit.

If a calf is to be raised by hand it should never be allowed to get with the cow after the hand feeding begins. If the calf is a heifer and is to be raised up for home use, if allowed to get out a few times during its early life, it will give much trouble in sucking its mother and also other cows. The mother will also worry over it and refuse to give down her milk if the calf is allowed to get with her every few days and take nourishment. If they are kept securely apart for a few weeks they will both forget it.

E. E. Rushing.

Tunnel Hill, Ill.

ILLINOIS CATTLE FEEDERS' MEETING.

That the Illinois cattle feeders are interested in the subject of baby beef production through the use of corn silage is evidenced by the large attendance at their third annual meeting, held on the university campus at Urbana, Illinois, Tuesday, July 15th. Nearly 300 progressive cattle feeders of that and adjoining states came to hear the program on general live stock topics, and to look over the seventy-five baby beeves which have been on feed since December 14th.

Pres. Clyde Ford, of Geneseo, Illinois, presided and the program of the day consisted of a visit to the feed lots to inspect the finish of the steers, and the feeding plant in actual operation.

Mr. H. P. Rusk, of the department of animal husbandry, presented the results of the recent experimental work in feeding beef cattle at the university. He drew the following conclusion from the experiment:

When properly supplemented with cottonseed meal, corn silage made cheaper gains than alfalfa; produced a higher finish, and returned a larger profit.

The addition of alfalfa hay to a ration of shelled corn, cottonseed meal and corn silage, increased the rate and cost of gains, produced a more valuable finish and yielded larger profits.

The substitution of alfalfa hay for half of the silage in the middle of the experiment increased the rate and cost of gains, produced a higher finish and yielded larger profits.

The addition of cottonseed meal and silage to a ration of corn and alfalfa hay produced more rapid gains and a higher finish, reduced the cost of gains and yielded a larger profit.

The addition of oats to a ration of shelled corn and alfalfa reduced the rate of gains, increased the cost of gains and produced less profit.

Messrs. J. T. Alexander and F. W. Fletcher, of Chicago, placed values on cattle from which the profits of the lots were figured.

The chief address of the day was delivered by Charles E. Thorne, director of the Ohio Experiment Station, on the subject of "Live Stock in its Relation to Soil Fertility." Much encouragement was received by the live stock farmer from this address which closed with the following helpful remark: "I have, therefore, to say that the outlook for the live stock husbandry was never more encouraging than it is today."

Other talks were made by John T. Alexander, on the "Market Outlook," and Dean Skinner, of Purdue, on "The Value of Feeders' Associations."

The following officers were elected for the coming year: Clyde Ford, Geneseo, Illinois, president; Claude Thomas, Harris, Ill., vice-president; H. P. Rusk, Urbana, Ill., secretary-treasurer

No Hoops to Tighten
No Wood to Shrink

No trouble to erect and no expense to maintain. The only silo that is built throughout of materials that are unchanging and permanent. Rust-proof, rot-proof, frost-proof, acid-proof, time-proof and fool-proof. Wind, fire and lightning cannot affect the

AMERICAN INGOT IRON SILO

Absolutely air-tight and smooth on the inside. Doors open inward. Roof with ventilator scuttle door and railing included in price of silo; also ladder and chute for silage. No extras to pay for. Quickly erected. A wrench is the only tool you need. The "American" cures and keeps silage perfectly. No more mildew. No seepage or leakage. No loss of succulence. *Write today for catalog J.*

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Shoo-Fly THE ANIMALS' FRIEND

Keeps flies and other insect pests off of animals—in barn or pasture—longer than any imitation. Used and endorsed since 1885 by leading dairymen and farmers.

$1 WORTH SAVES $20.00 in milk and flesh on each cow in a single season. Heals sores, stops itching and prevents infection. Nothing better for galls. Kills lice and mites in poultry houses.

SEND $1, if your dealer can't supply you. We'll send enough Shoo-Fly to protect 200 cows, also our 3-tube gravity sprayer without extra charge. Money back if not satisfactory. Name Express Office. Booklet FREE. Special terms to agents.

Shoo-Fly Mfg. Co., Dept. 40 1310 N. 10th St., Phila.
Editor knows from experience that Shoo-Fly is O. K.

WEBER FOUR-CYLINDER, 35 H. P. TRACTOR

The sensation of the century. Backed by Weber's 30 year's reputation. New Model. 35 Horse-Power. Lightest, strongest, most efficient Tractor made. A complete power plant.

SAVE $1,000.00

A wonderful price revolution. Tractor will pay for itself the first season. **FREE TRIAL.** Full factory guarantee. Write quick for illustrated book and amazing price offer.

AMERICAN GAS ENGINE CO.,
Dept. 250 Kansas City, Mo.

Kalamazoo
ALFALFA & ENSILAGE CUTTERS

make a positive shearing cut full width of bundle, from sides to center of throat, hence do cleaner work on less power. Our sickle-edge knives cut the hard, dry alfalfa to ¾ inch lengths. Only silo fillers made having these wonderful knives. Investigate now. Write for catalog. Address Dept. 79

KALAMAZOO TANK & SILO CO.
KALAMAZOO, MICH.

Branches: Minneapolis, Minn. No. Kansas City, Mo. No. Ft. Worth, Texas

GUARANTEED ALFALFA SEED

Absolutely Pure and free of weeds—vigorous and hardy—endorsed by Experimental Stations and Alfalfa Authorities everywhere; *sold on approval.* Alfalfa will grow on your land. Write for Free sample.

HENRY FIELD SEED CO.,
Box 25 Shenandoah, Iowa.

GUERNSEY CATTLE.

GUERNSEYS

As you like them
Choicely Bred
Cows - Heifers - Bulls
All tuberculin tested and just as represented
It will pay you to ask about them
WALTER-WALWORTH-WIS

HOLSTEIN-FRIESIAN CATTLE.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

AYRSHIRE CATTLE.

AYRSHIRES—Bulls all ages, cows, heifers and calves. Ask for sale list. Highest quality—reasonable prices. Galloway Farms, Waterloo, Iowa.

JERSEY CATTLE.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

"INGECO"

KEROSENE ENGINE

Farm Type
2½ to 15 H. P.

Farmers have been demanding an internal combustion engine to operate on cheaper fuel—**here it is.**

"INGECO" Kerosene Engines operate perfectly on plain kerosene—the kind you use in your lamps and lanterns. They are **real** kerosene engines of the "Throttling Governor" type—not a makeshift gasoline engine with attachments and complicated parts for operating on cheaper fuels.

"INGECO" Engines run successfully and economically on kerosene, distillates and other light oils—they are quickly started, safe and have no exposed flame.

Write for catalog—we make just the engine for your use. State what size you are considering.

INTERNATIONAL GAS ENGINE CO.
152 Holthoff Pl., Cudahy, Wis. (Suburb of Milwaukee)

Save you 1/2 on fuel

CORN CRIBS

(SECTIONAL)

Patents Applied For

MILLER SECTIONAL CORN CRIBS

Made of No. 1 Yellow Pine. A better and stronger Crib than a carpenter would build. Bolt together yourself in few hours.

AT JUST ABOUT THE PRICE OF LUMBER.

The Miller Sectional Crib costs you no more than the bare lumber. It is built in sections four feet long by eight feet wide and ten feet high, with tongue and groove floor and box car roof.

You can have any size Crib you want. Painted both sides. Bolts and braces furnished. A wrench is the only tool neeeed to set up. Take down and move at will.

SEND 25 CENTS TODAY

For our new valuable CORN BOOK. It gives valuable information on corn, the proper cribbing of corn, corn cribs, hog and hen houses, etc. If not satisfied, money refunded without question.

The Miller Manufacturing Co.,
8000 Alabama Ave., St. Louis, Mo.

Largest Manufacturers in the World of Sectional Corn Cribs, Hog and Hen Houses, Sectional Ice Houses, Sectional Cold-Storage Buildings and Rooms for Perishable Products. **Refrigerators for Every Purpose.**

References, Southern Commercial Bank, St. Loui and Iowa Homestead, Des Moines, Iowa.

Bloodsucking Mites

are the hot weather scourge of the poultry yard. Kill the pests before they ruin your flock. Use
PRATTS LIQUID LICE KILLER
or PRATTS DISINFECTANT
Guaranteed. Dust the fowls with Pratts Powdered Lice Killer.
Pratts 160-page poultry book 10c by mail.
At all dealers, or
PRATT FOOD CO., Phila., Chicago

WYANDOTTES.

White Wyandottes 100 hens, 10 cock birds for sale cheap, No. 1 breeders. Geo. W. Livingston, Monroe, Iowa.

PARTRIDGE Wyandotte eggs for hatching at $3 per 100. Breeding stock for sale at reasonable prices. Address Thos L. Morlan, Indianola, Iowa.

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POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

LINEBREEDING.

To the Editor of The Homestead:

With the advent of more pure-bred poultry more and more are people making inquiries about linebreeding. Remembering the old order of things when no such thing as new blood was supposed to be needed and the roosters were kept until they were patriarchs, with the result that the flock got worse and worse, the novice is not easily converted to anything bordering on inbreeding. With him inbreeding and linebreeding are one and the same thing and in league to send one's chickens to the bow-wows.

Although synonomous in actual practice inbreeding and linebreeding are a vastly different proposition. Inbreeding at random will in a short time ruin a flock that it has taken years to build up. By keeping over every manner of fowl without knowing the relation of anyone to another and permitting promiscuous mating we will soon be the possessor of a flock run down in vigor, color and size. Weakness begets weakness and when mated together this undesirable quality is intensified. Many of our best breeds are the result of numerous crosses of birds of different types and conditions and if permitted to deteriorate the influence of the plebeian ancestors is evident when least expected or wanted.

Linebreeding proper is cutting out every undesirable individual, year after year, and combining fowls similar in characteristics to the extent of 25 per cent and not more than 50 per cent of their inherited blood. This precludes the mating of brother and sister, even though they are very desirable as individuals. Sires mated to their own pullets we have found to be the best of all methods and hens to their cockerels the next best. In some instances a sire has been used with his daughters, granddaughters and great-granddaughters, and with success, but unless one has time and money to work out a theory it is not to be recommended. Farmers, as a rule, desire early results rather than to wait indefinitely for a questionable profit.

Only for linebreeding there would today be no pure-bred families of fowls. This system gets rid of bad qualities and intensifies the good traits. The one exception to this we have found to be regarding size Even though the largest and best individuals were selected the third generation was hardly so large though in everything else including stamina they were superior each succeeding generation.

To properly linebreed it is necessary to know every bird and its parentage, and mate accordingly. This would not be as complicated as it at first would seem. By clipping the web between two certain toes for one generation and between others for the next and keeping a record it is easy to know the parents and offspring. To accomplish results it is necessary to keep one yard separate from the general flock each year. This is the cheapest and best way to procure cockerels for the common flock. Instead of purchasing a half dozen cockerels of questionable lineage each year buy one choice bird from some reliable breeder who keeps birds of your own particular strain and mate him with eight or ten of your best and most uniform hens. If the result is satisfactory and the cock is a vigorous breeder yard his best pullets with him the following year. Be very careful in the selection, as a fault will probably be multiplied by two in the young stock. Better use only four pullets in your mating than to risk anything doubtful.

This linebreeding admits of much wider discussion, but few people care to carry it further. To anyone who desires I recommend the study of the I. K. Felch breeding chart.

Minnie G. Stearns,

Because the apples are so thick on the trees in the big Reno county (Kansas) orchards, gangs of men are being hired to go through the orchards and knock green apples from the trees. This is necessary, the fruit growers explain, to prevent the boughs from breaking down under the weight of the growing fruit and also to improve the quality of the remaining apples.

Ask your neighbor to subscribe for The Homestead.

The above is a picture of Henry Fesenmeyer's new hog house on his new farm at Clarinda, Iowa. This is the home of the three great boars, A Wonder, Giant Wonder and Big Ben, three of the greatest big-type boars now living. Write Mr. Fesenmeyer for catalog of his great sale which takes place August 12th.

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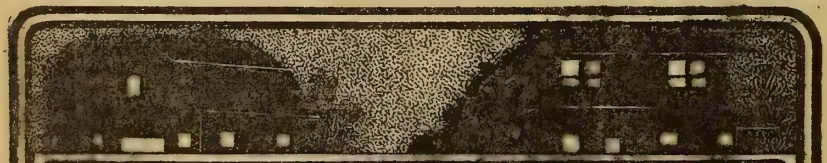

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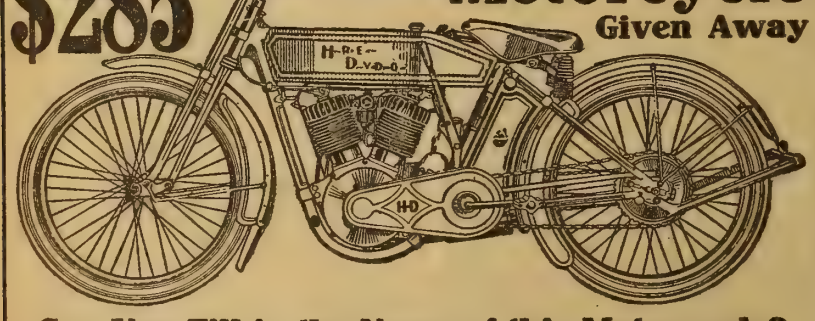

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This is a picture of the $285 motorcycle that I am going to give to some lucky boy. What make is it? Part of the letters in the name have been left out. Can you fill in the missing letters—H-R-E-D-V-D-ON? This is one of the best known motorcycles made and I am sure you will be able to make out the name. Be sure to send your name and address so I can tell you how to get this wonderful machine without one penny of cost.

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

In a remarkable book dealing with the methods pursued in the training of his son Karl Witte tells that while the lad was yet quite young he acquired the habit of "putting himself in the other fellow's place." His father endeavored to make him also thoughtful for dumb creatures. An incident will suggest this plan.

One day, when the child was about three years old, there were guests at the parsonage who made much of little Karl. While they were talking to him the family dog came into the room and the boy playfully caught it by the tail and drew it to him. As he did so his father caught Karl by his long hair and pulled him just as he was pulling the dog. The surprised child turned to look at his father and, seeing the indignation on his face at once released the dog. His father at once released him; but, as he did so, he asked, "How did you like that?" The boy replied, "Not at all!" His father thereupon asked, "Well, do you think the dog liked it?" At the same time he sent the child out of the room.

Pastor Witte believed that in teaching his boy to be thoughtful and considerate of animals he was not only protecting the rights of the helpless, but also training his child in habits of mind and conduct which would be a blessing to himself and to his fellowmen. It is a great pity that more parents do not grasp this idea. Occasionally parents do. A mother recently wrote:

When little ones play roughly with their pets, or treat animals cruelly, I always feel that it is from lack of understanding, and I try to teach my children. When our first boy was about seven months old we got him a rubber dog and a small, furry cat. Every time I gave them to him I handled them carefully and said, "Pretty doggie," or "Nice kitty," adding, "Be careful, dear." I treated the animals as if they were alive and before many weeks the child noticed that if he were careless or rough with them it grieved mother. After this if he wilfully transgressed the unwritten law that the dog and the cat were to be handled gently I quietly took them away from him. In this way when he was old enough for a real, live kitten he never squeezed or tormented it as so many children do, and gradually I had the joy of seeing him become most considerate of his pets. I attribute his kindness to his sisters and brothers and his obligingness in the home very largely to the fact that as a little fellow he learned to be kind to dumb creatures and so formed the habit.

HOME AND HOMEMAKING.

MY CREED.

This is my creed: To do some good,
To bear my ills without complaining,
To press on as brave man should
For honors that are worth the gaining;
To seek no profits where I may
By winning them bring grief to others,
To do some service day by day
In helping on my toiling brothers.

This is my creed: To close my eyes
To little faults of those around me;
To strive to be when each day dies
Some better than the morning found me;
To ask for no unearned applause,
To cross no river till I reach it;
To always have a worthy cause,
To fearlessly and fairly preach it.

This is my creed: To wisely shun
The sloughs in which the foolish wallow,
To lead where I may be the one
Whom weaker men should choose to follow;
To keep my standards always high,
To find my task and bravely do it;
This is my creed—I wish that I
Could even live half way up to it.

TO MAKE CURRANT JELLY.

The requisites for the work are a good quality stone pot or porcelain-lined kettle, an earthen bowl of good size into which the fruit juice may drip, shallow tins for heating the sugar, a long-handled wooden spoon, a coarse jelly bag, paraffine to cover the jelly before putting away, and plenty of jelly glasses with glass covers if possible. After thoroughly washing, place the currants in a stone jar or the preserving kettle and set in a large pan of water. As the currants begin to heat, mash with a large wooden pestle until reduced to a pulp. Take the jar off the range and scooping up the pulp put in the jelly bag to drain. This is best done the night before the jelly is to be made, as that allows time for the juice to drip by itself and the jelly will be clearer than when it has to be squeezed through the bag. When the juice is all extracted, measure out by pints and return to the kettle. Take as many pints or pounds of sugar as there are pints of juice, and place on the shallow tins to heat in the oven, taking care they do not get hot enough to discolor the sugar. Boil the juice just twenty minutes from the time it begins to boil and throw the heated sugar in, stirring rapidly all the time. As soon as it is all dissolved, remove the spoon, let the juice just come to the boil again and take at once from the fire, pour into glasses and seal.

ABOUT THE HOUSE.

Most housewives use the broom dish cloth, made of cord attached to a handle, which is vastly more convenient than the old method of immersing the arms to the elbows.

If the house is infested with ants, dip a sponge into sweetened water and lay it where they can get at it. They will soon cluster upon it and the sponge can then be dropped in hot water.

To take mildew out of cotton goods wet the article and rub on it equal parts of laundry soap and chalk mixed well together, then place in the sun, when the stain will usually disappear. If not—Eau de Javille or a solution of oxalic acid and hot water applied to a mildew stain on white linen will obliterate the discoloration. After applying, expose immediately to the sun.

A thin board tacked across the bottom of the screen door will save the screen from considerable injury.

When silver spoons or forks become discolored from eggs, scour them with fine table salt. This will remove the discoloration, which is caused by the sulphur in the egg, and not scratch or wear the silver.

GREEN PEA SOUP.

Cover a quart of peas with boiling water and let boil until they will mash easily; mash, and add one pint of water. Cook together two tablespoonfuls of butter and one of flour until it is smooth, but not brown; add gradually one cupful of hot milk, and pour into the peas; add salt and pepper to taste, and let boil up. Lastly add a cupful of sweet cream, and strain. When serving add to each dish a spoonful of whipped cream.

AMONG OURSELVES.

You have heard the expression, "The brooding of nature." The words mean more or less to you according to whether you are given to "brooding." Life must be conducted into quiet places for us to brood—and we must have something to brood over. These early mornings, or these summer evenings, bring to some of us thoughts that are things, thoughts that enter into the very warp and woof of our life and that enlarge our vision. One of our women, Mrs. Ed. Bliss, has been thinking over this large thing we call "Life" and she is noticing how we live it, not merely as it affects ourselves, but also the effect our ways of living have on others. Mrs. Bliss says:

It seems to me, when thinking of life, that it is one big cable chain run by some hidden power. All things connect so closely. For instance, a woman that is slovenly in dress is not always a slovenly housekeeper. A slovenly housekeeper is apt to be slack in her speech. A woman of neatness and refinement will never relate so-called "funny" yarns, or tell of little things that pass between herself and her husband. Let a woman tell you her varied experience before or after she was married and you will have a doubt in your mind if she is as true as she ought to be. Children absorb slackness of speech as a sponge does water. How often you hear things discussed before little three or four-year-old children! They then repeat it to an older child. The elder one will tell the meaning. Then these people will wonder where their children "learn such stuff!" Home life should be kept sacred just as well as the house kept clean or the meals well cooked and served. Where a man and wife respect the home and the rights of each, striving to keep it up to a high standard, inside and out, you will rarely ever find those troubles that are filling the pages of our papers and magazines with stories that are better never told.

This letter quickly makes us think of the fate in store for "whosoever offendeth one of these little ones." Don't you think that there is so much, too much altogether, heedlessness of tongue? We let our tongues say things we would never dream of doing. We boast, we make reckless

statements, and while making them care little who hears. In our daily lives we, of all people, know how easily weeds take root, produce seed and scatter. Therefore, ought not we, of all people, to sow clean words?

And the fruit of such! What a heart-full of glowing gratitude dwells in the breast when, as writes Mrs E. M. S., a parent is able to cherish really joyful memories of the flowers of the home, and especially so when they have been culled to bloom in the Fields beyond the River. Our hearts are touched as we read:

Here comes another "old-fashioned mother," who was blessed with a similar "machine"—oh, so loving and kind, and besides was a dish washer and a bread mixer; in fact, everything connected with homemaking and comfort. She was fair, tall and beautiful; graduated last spring in the high school of Cantril, only nineteen years of age. At the tender age of nine, when her older and only sister was married, feeling the responsibility then resting on her she stepped into and filled her sister's place so intelligently she became the constant companion of her mother and often would say, "I am going to stay at home and take care of you and papa." But on April 16th the lovely one was removed from us. Oh, how lonely and heartbroken we are. So, dear mothers, watch over and give particular loving care to those dear girls while they are permitted to stay with you. You cannot be too careful of them. You who are still blessed with the presence of your girls, think of and sympathize with me in my loneliness.

What are more precious than such jewels of memory? Fortunate indeed are those who wear them in their hearts. And what shall we say of the folly of people who through selfishness, or indolence, or mistaken kindness deprive themselves of the opportunity of securing such jewels? Listen to Mrs. Ferrol, who was a deprived daughter and is now a mother with great desire to wisely guide her little one:

While reading in your good paper lately I read the letter from the lady who helped the boss make the screened porch. I would love to have a porch like hers. They are just as dandy as they are handy. My folks at home have one and couldn't get along without it. We live on a 160-acre farm with a large house, four rooms down stairs and three up stairs. There is a porch in front, but none to the kitchen. So you see I am not so lucky as the other lady. I will have been married four years October 9th. We have one boy three years old October 11th. He is all the world to us—our only child. I guess that is why we worship him so, but yet he doesn't get to do as he pleases. He knows what to do when his papa says: "Will you mind?" and that's enough. His little heart is broken and he runs to mother to be petted, but I tell him he must mind and be a good boy and papa won't scold. There is where so many make a serious mistake. One tries to make a child mind and the other gathers him in their arms and pets him. That makes bad children. How many of you mothers are letting the girls sit out in the swing or some nice shady place with a book while you are over the ironing board or are washing, baking, cleaning the house or getting supper for tired father? Mothers, don't let your children get married like I did. My mother never would let us girls do anything but wash dishes and not very much of that and when I got married my mother-in-law laughed at me because I could not bake bread, but she can't laugh now, for my bread is as nice as anyone's.

Here is a song a lady of the Home Department asked for, writes Mrs. Kinstle:

CHEROKEE.

Milk-white roses, Cherokee roses,
Starry blooms that the dark encloses!
Hark to the wild song,
Strange song, mild song,
Sometimes a love-song, sometimes a child-song!
See where the dreaming palmetto dozes,
I wait here, singing of the Cherokee roses!

Fair little lady, moon-white lady,
White as the flowers in your garden shady,
When I have fled, love,
When love has sped, love,
Come to our tryst, love, drooping your head, love,
Saying, "Here strayed he!" Sighing, "Here stayed he!"
Singing to, dreaming of, calling his lady!

Cherokee, Cherokee, Cherokee roses!
Hear the song in the garden closes!
Hark to the light song,
Mocking-bird's bright song,
Lover's low love-song, passionate night-song;
Who is the singer the sweet dark encloses?
Someone who sings of the Cherokee roses!
Milk-white roses, Cherokee roses,
Dream-pale blooms that the night encloses!
—Night Song at Cherokee.

Ask your neighbor to subscribe for The Homestead.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

A LESSON FROM THE WEEDS.

(First prize.)

How many of you want to hear about the value of weeds? That doesn't sound very interesting, for nearly everyone who lives on a farm has a natural horror for weeds, and do you know why? It is because they are thieves, springing up among grain or vegetables they rob the soil of its most valuable elements, and if left alone, they even destroy the crop. So you see they are robbers and murderers.

But, after all, weeds may teach us a lesson, if only we are willing to learn. You may cut them off to the ground, but they will grow again; dry weather may retard their growth, but will not kill them; they simply won't give up unless their roots are destroyed, but keep climbing onward and upward. They told me this motto. This is what it is: "Aim at the stars always, even if you never reach the treetops." Now I think that would be a pretty good motto for American boys and girls. Don't you?

—Myrtle.

A Summer Night.

(Second prize.)

All day the waves tossed high. All day the ceaseless roar of the angry sea could be heard above the raging tempest, as with terrible force the dark clouds of storm swept o'er the powerless earth.

But at last their power is spent, and as the evening hour draws near, the storm-swept world now lies at rest. Yet still the gray clouds frown, and slowly the shades grow deeper; when suddenly the silent land is flooded with a golden light. The trees wear gowns of richest velvet set with countless sparkling gems, while the western sky is one great golden throne, pillar upon pillar, all glowing with a radiance so wondrous that it seems the gates of heaven have suddenly been opened to give to this dark world a glimpse of that shining throne beyond.

But now a peculiar softness is gradually enveloping the world with a veil, sweet soft and still; a charm that calms the restless sea and brings peace and quiet to the troubled world. The western sky still stained with many brilliant hues is slowly, surely blending into that one soft purple sheen—Night.

A sweet perfume rises on the dampened air; it comes from the ripening wheat, from the clover, from the thousands of roses, from the dew itself. It fills the world with fragrance. It is a balm that smooths a wrinkle from the aged brow and speeds the weary footsteps toward that sweet haven, Home. —Lois Stewart, age 15.

Wee Wild Things.

(Third prize.)

Have you ever seen little wild ducklings? They are about the cutest little things I ever saw. When they get about a week or so old they will dive under the water every time you come near them. But when they are just a few days old they will not dive when you come near. They look so cute when they swim along on the river all in a bunch. When you venture near the shore where they are, the old duck will dive under the water and come up somewhere below, and fly off down the river, leaving the little ducks there. The little ducks will dive and come up under the banks and rocks. And if you get after them they will scatter all along the river. And the first thing you know they are all out of sight. If you come back after awhile you will hear them hollering, and the old mother duck gathering them up.

The little young sage-hens are about the next to the cutest. The old hen makes her nest in some weeds, and lays about nine eggs in it. When they are all hatched they begin to wander around. It is fun to watch them walk. They walk so funny. They live on bugs and grass. They don't eat much grain.

I have told you about two kinds of

Keep a
Kodak Record.

Preserve for future reference an indisputable record of your crops, your growing stock, the condition of buildings and fences and roads—by means of photographs.

Make sales of your stock by means of photographs; bring home ideas from other people's farms by means of photography.

You can make good pictures by the Kodak system. It's all very simple—and less expensive than you think.

Catalog free at your dealers or by mail.

EASTMAN KODAK CO.,
392 State St., ROCHESTER, N. Y.

$25 for a Name for this Pony

I will give $25.00 FREE for the best name for this beautiful prize Shetland pony. Send the best name you can think of right away, for not only do you have a good chance to win the $25 prize but

You Can Win the Pony, Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today

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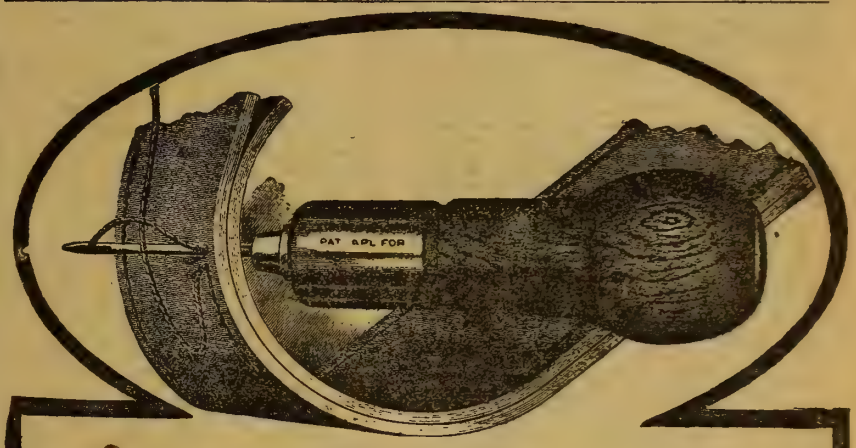
A. M. PIPER, 650 Popular Bldg., Des Moines, Ia.



DOES YOUR
Harness Need Mending?

SEEDING, corn plowing, haying, harvesting and threshing are all destructive to harness. No doubt your harness needs mending. Anyone can mend his harness with my Speedy Stitcher. The broken part will look just like a harness maker had mended it.

The Speedy Stitcher is the latest invention and the most effective of anything in the form of an Automatic Sewing Awl ever offered. Its simplicity makes it a thoroughly practical tool for any and all kinds of repair work, even in the hands of the most unskilled. With this Awl you can not only mend harness, but shoes, tents, awnings, pulley belts, carpets, saddles and suit cases.

The Speedy Stitcher is provided with a set of diamond-pointed, grooved needles, including a special needle for tapping shoes. It also contains a large bobbin, from which the thread feeds. Both needles and bobbin are enclosed inside the handle out of the way. This Awl has a tension which enables you to tighten your stitch. These valuable features you will not find in any $1.00 Awl.

MY BIG FREE OFFER

I will give one of these excellent Speedy Stitchers absolutely free to anyone who will send me $1.00 for one year's subscription to The Homestead.

Kindly use the coupon below and be sure to send your order in today before you forget it.

JAMES M. PIERCE - DES MOINES, IOWA.

USE THIS COUPON

Date 1913

James M. Pierce, Pub. Homestead, Des Moines, Iowa.
Dear Sir:—Enclosed find $1 for one year's subscription to The Homestead. For my promptness send me postpaid free of charge your Speedy Stitcher.

My name is.....

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Rural Route..... State.....

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A SCHOOL OF IDEALS

Liberal Arts--Bible--Law--Education
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In **the Conservatory of Music** exceptional opportunities are offered to those studying Piano, Organ, Violin, Voice, Harmony, History of Music, Public School Music. The **School of Drawing and Painting** (including a very strong Drawing Supervisors' Course) and the **School of Dramatic Art** are unexcelled. The equipment is adequate and graduates of all these schools are filling prominent positions throughout the country.

Students find advantages here that private teachers cannot give. The carefully chosen faculty is devoted to the best in education.

These schools of Drake University are standard in every particular and are so recognized by every standardizing agency in this country. Two splendid Gymnasiums, Carnegie Library, Choral Society, Glee Clubs, Band, Orchestra, and a free Artist Recital Course of the highest class. Many other advantages.

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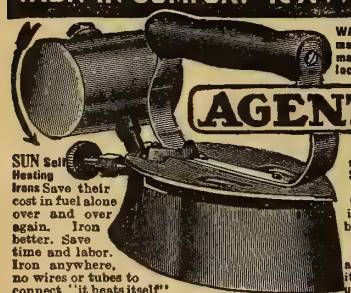
DAISY FLY KILLER placed anywhere, attracts and kills all flies. Neat, clean, ornamental, convenient, cheap. Lasts all season. Made of metal, can't spill or tip over; will not soil or injure anything. Guaranteed effective. Sold by dealers, or 6 sent by express prepaid for $1.

HAROLD SOMERS, 150 DeKalb Ave., Brooklyn, N. Y.

BINDER Attachment with Corn Harvester cuts and throws in piles on harvester or in windrows. Man and horse cuts and shocks equal with a Corn Binder. Sold in every state. Price $20 with fodder binder. J. D. Borne, Haswell, Colo., writes, "Your corn harvester is all you claim for it; cut, tied and shocked 65 acres milo, cane and corn last year." Testimonials and catalog free, showing picture of harvester.
PROCESS MFG. CO., Dept. 66, SALINA, KANSAS

IRON IN COMFORT-1c A WEEK



WANTED: A man or woman in every locality

AGENTS

to demonstrate SUN Self heating Irons

SUN Self Heating Irons Save their cost in fuel alone over and over again. Iron better. Save time and labor. Iron anywhere, no wires or tubes to connect "it heats itself" always ready. Sold on trial and guaranteed.

Opportunity to make big money. Show the SUN Iron and it sells itself. Write us quick.

Write us for descriptive circular and for our Special First Order Offer.
MODERN SPECIALTIES MFG. CO., 104 High Street, South Bend, Ind.

Big Doll For You

D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.
902 Popular Bldg., DesMoines, Iowa

Ask your neighbor to subscribe for The Homestead.

wild fowls now, that I think everybody will agree with me are the cutest little things that ever lived.
—August L. Nylander, Wyo.

PLEASANT FIELDS OF HOLY WRIT
Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON
3d Quar. Lesson 4, Ex. 4, 29; 6, 1, July 27, 1913.

MOSES' REQUEST REFUSED.

Sweet are the uses of adversity,
Which, like the toad, ugly and venomous,
Wears yet a precious jewel in his head.—Shakespeare: As You Like It.

A noble Roman stood wrapped in his toga, gazing at his lovely marble villa as it disappeared in devouring flames. A friend ventured to approach and proffer sympathy. The sententious reply was: "If it had not perished, I would have perished." So we may say, but for the misfortune of the Egyptian bondage, Israel would have perished. The "ugly and venomous" experience of the brickyard held a jewel, after all. The stream of their national life was forced into a new and uncongenial channel. By choice and hereditary instinct they were used to the free and tranquil manner of the nomad. It was a bitter transition from the "land of verdure" to the brickyard; from driving their cattle to being driven like cattle; from the easiest of all vocations to the most laborious of all. No paraphrase can possibly intensify the forceful phraseology of the original narrative. Pharao's object was decimation. Bailiffs with hard hearts and bludgeons were at a premium. They afflicted with their burdens. There was a ferocity (rigor) in their exactions. They intend nothing else than to break in pieces and crush the captive race. They embittered their lives. The tally of bricks required was always waxing, though the material to make them steadily waned. Affliction, sorrow, oppression, sighing, groaning are oft recurring words in this dismal chronicle of slavery. This most prolonged and irritating bondage was, however, like the ax the very blow of which sets free the pent-up fragrance of the sandalwood. It was like the rude trampling after which the camomile emits its richest odor. The first sweet use of Israel's adversity in Egypt was to loosen the hold which that country had obtained upon the emigrant nation, and to make them homesick for Canaan. It is probable that nothing short of this terrible ordeal would have been sufficient to uproot them from a land Providence never intended they should abide in permanently. The weird country exercised its mystic spell even after they had left it far behind them, and they sighed for the onions and fleshpots of the Nile land. Egypt too, was the fiery furnace where a loose population was fused into a compact nationality. Nothing surpasses common suffering in accomplishing this end. Their like pains and indignities made them feel alike—hope and aspire alike. And as "sharp frosts nourish corn, so did the sharp afflictions" of Israel in Egypt nourish their graces. They were shut up to faith in God. No eye pitied them, no arm could deliver them but his. They were led to admit the justice of God's anger at their manifold sins, and to repent of them. Their aspiration for their divinely-promised "rest" in Canaan was quickened thereby. When the great assay was finished, God quenched the furnace fires with the waters of the Red Sea. The new-born nation, christened in cloud and sea, came up out of the depths singing antiphonally such a paean as earth never heard before. To the praiseful acclaim of the male chorus, "I will sing unto the Lord, for he hath triumphed gloriously," the female responded, "Sing ye to the Lord, for he hath triumphed gloriously."

If the element of luck enters into farming anywhere it is in the drying of the hay crop and even with this the failure is often laid to bad luck when just a little hustle would have meant good luck and success.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6054 Ladies' Skirt.—This is a six-gored model with the closing at the left side of the back. It has a plait at the lower part of the front and back gores which gives convenient and graceful width at the bottom. The skirt may be used for separate wear or as part of a complete costume or coat suit.

The pattern 6054 is cut in sizes 22 to 30 inches waist measure. Medium size requires 4⅛ yards of 36-inch material. Price of pattern ten cents.

6238 Misses' Dress.—Young girls will like this stylish dress, with its simple jacket, closed in front and gathered at the waistline where the hip sections are attached. The plain sleeves are inset and the two-piece skirt is made with raised waistline.

The pattern 6238 is cut in sizes 14, 16 and 18 years. Medium size requires 4⅝ yards of 44-inch material. Price of pattern ten cents.

6230 Girls' Dress.—This design shows an uncommonly dainty frock. It has the drop shoulder effect, with an ornamental arrangement of the overlapping body portion. The sleeves may be short or long. The skirt is a single straight piece and is gathered and attached to the waist beneath a belt.

The pattern 6230 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 2¼ yards of 36-inch material. Price of pattern ten cents.

6219 Smart One-Piece Dress.—The most fashionable of all gowns this season is the one-piece model. Our design shows a simple bodice, with ornamental closing, the neck finished with a low collar, the plain sleeves ending in a cuff. The four-gored skirt has a seam in the center of the front and also of the back. It has the closing at the front.

The pattern 6219 is cut in sizes 34 to 42 inches bust measure. Medium size requires 4 yards of 44-inch material. Price of pattern ten cents.

CUP ELEVATOR

Always ready for use. Placed inside the crib in the dry. Easy running, durable and strong. Elevates oats, wheat, or ear-corn, 50 bushels in three minutes.

SET IN YOUR CRIB BEFORE YOU PAY
The first successful **Upright Ear Corn Elevator made—SOLD DIRECT to the Farmer.** Free Catalog showing 8 styles with crib plans which save you money. Write for it today.
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Young man, learn the Automobile Business. This Book is Free and it is full of money-making information. Tells how to learn all about an automobile so you can repair any make of automobile and drive any car on the market. Lots of good positions open as repairmen, salesmen or drivers. Pay $75.00 a month up. Only 6 weeks time required. **Send Your Name Today,** and we will mail you this big free illustrated book which will tell you how to qualify in a few weeks' time for a good job or business.
Automobile Training School, 1300 Locust St., Kansas City, Mo.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

July 29-30, D. R. Hanna, Chicago, Ill.
Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 14, Thos. Stanson, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16-17, C. A. Saunders, Mgr., South Omaha, Neb.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Aug. 29, George Leigh & Wm. George, Aurora, Ill.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 24, J. B. Ashly, Audubon, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22 Woodlawn Farm, Sterling, Ill.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 15, Escher & Ryan, Botna, Ia.
Oct. 16, John Cash, Jr., Parnell, Iowa, sale at Williamsburg, Iowa.
Oct. 28, Combination Sale, Chicago, M. A. Judy, Mgr.
Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.

Percheron Horses.

Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Poland China Swine.

Aug. 7, C. F. Adams, Owasa, Iowa.
Aug. 12, H. Fesenmeyer, Clarinda, Ia.
Aug. 12, J. G. Hutchinson, Crete, Neb.
Aug. 13, Pfander & Sons, Clarinda, Ia.
Aug. 20, Williams Bros., Villisca, Ia.
Aug. 22, A. H. Windom, Nodaway, Iowa.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 16, Fred Sievers, Audubon, Iowa.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Sept. 24, E. W. Kreischer, Mt. Vernon, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 3, H F. Dunn, Clarinda, Iowa.
Oct. 4, Frank Ranier, Logan, Iowa.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, S. C. Wyckoff, Kellerton, Iowa.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, A. Kocl, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Frank Pelzer, Marne, Iowa, sale at Atlantic, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Powers, Aurora, Neb.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 14, Frank Roberts, Earlham, Iowa.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 8, J. L. Naiman, Alexandria, Neb., at Hebron, Neb.
Nov. 18, John S. Barnard, Nelson, Neb.
Nov. 12, E. V. Waugh, Greeley Center, Neb.
Jan. 27, Thos. F. Miller, York, Neb.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 18, Bloemendaal & Korver Bros., Alton, Iowa.
Feb. 24, R. R. Blake, Dallas Center, Ia.

Duroc Jersey Swine.

Aug. 6, W. M. Sells and Swan & Ellis, Indianola, Iowa.
Aug. 7, O. S. Larson, Logan, Iowa.
Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 8, Wm. Reed, Rose Hill, Iowa.
Oct. 9, H. W. Lineweaver, So. English, Iowa.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 23, Barker Bros & Crowell, Riverton, Iowa.
Oct. 24, Day & Welsh, Hepburn, Iowa, sale at Villisca, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Keonig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 17, Briggs Bros., Seward, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 3, A. C. Mills, Spencer, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

If wishing to a Fox Terrier dog read the advertisement of W. Harr, Riverside, Iowa, appearing on page 13.

E. Wood, Glenhaven, Wis., has dogs for sale. For stamp he will send particulars. His advertisement appears on page 13.

Yearling Indian Runner ducks are offered for sale in dozen lots by R. O. Dickson, Box 30, La Harpe, Ill., in his advertisement that appears on page 13 of this issue.

Duroc Jersey boars of size, quality and breeding can be had of Hugh M. Ficke, Long Grove, Iowa. Pigs by such boars as Cherry Chief, Royal Col., Professor, S. E.'s Premier and Premier Gold Bond are offered. See page 22.

Fall boars by Disturber, S. E.'s Premier Col., and Captain Model and a grand lot of spring pigs by the above boars and Cherry Chief, Volunteer and High Col., are for sale by the noted Duroc Jersey breeder, S. E. Eakle, Prophetstown, Ill. See page 22.

If you are on the market for an outstanding good Poland China boar pig, sired by the 965-pound Long King's Equal, then read the advertisement of John B. Lawson, Clarinda, Iowa, and get an order to him just as soon as you can. Leave it to Mr. Lawson to pick the pig and we will guarantee he will send you a good one. Write him about these right away and kindly mention this paper.

E. J. Augspurger, Pulaski, Iowa, whose advertisement of Poland China swine appears on page 28 of this issue, in sending in copy for same, writes: "I have some choice, big-type fall boars sired by Jumbo's Big Prospect for sale. Jumbo's Big Prospect is one of the best big-type boars in southern Iowa. The boars I am offering for sale are out of sows of choice breeding. The fall gilts are equally as good, and I also have a fine bunch of March pigs, both sexes, about half of which are sired by Equal's Wonder, a grandson of A Wonder, and the others by Jumbo's Big Prospect. Homestead readers wanting some choice ones should call and see those that I have for sale or write me their wants."

While at Jewell, Iowa, last week, a representative of The Homestead called on O. J. Satre, who has established a herd of Poland China hogs which, although not large, is on a foundation of the best sort and certainly has a promising future. Mr. Satre has at the head of his herd, Big Howard, a large, well-formed, excellently bred two-year-old hog that has merit enough for almost any good herd. His sire was Big Jones, one of the most popular big-type hogs in use on a prominent southern Iowa herd. His dam was Matchless Wilkes and back of that there is a line of breeding that has been popular for twenty years or more. Mr. Satre's foundation brood sows include Mollie B., Flossie, Leonora, Geneva and Mollie I. B. Mollie B. is a great big growthy sow by Long Price, he by Chief Price Second. It will be readily recognized that this is a popular pedigree. Flossie is a daughter of Ringleader Second. Leonora and Geneva are litter sisters and daughters of A Wonder King, he by the noted A Wonder. Mollie I. B. is by a Longfellow sire and her dam was a daughter of Chief Prince Again. The crop of spring pigs are good ones as might be expected and a little later other information will be given concerning them. Mr. Satre finds that with his small herd he could not well make use of Big Howard another year and for that reason now offers him for sale. He is worth a good deal more than the $50 which he will accept for him. There are also two small boars that will be sold for low prices. Address for further information, O. J. Satre, Jewell, Iowa. See advertisement on page 23.

E. W. Kreischer, Mt. Vernon, Iowa, has some good big-type fall Poland China boars for sale at right prices. See page 23.

See page 23 for the special thirty-day boar sale announcement of W. H. Cooper, Hedrick, Iowa. His big-type Polands are the kind that please.

W. M. Myers, Beaman, Iowa, has for sale some good yearling Scotch Shorthorn bulls of the Marr Flora and Barmpton Leaf families. See page 24.

John Krebs, Riverside, Iowa, has a fine lot of Duroc Jersey boars for sale of the big type, sired by Col. Joe, one of the good sons of the noted sire, Proud Col. See page 22.

W. W. Vaughn offers some select Scotch Short-horn heifers for sale. They are bred to Marshall Gold, a grand young bull now heading Wildwood herd. See page 24.

Yearling Duroc Jersey boars sired by Volunteer, an International champion, Model Wonder and Proud Ohio Chief are advertised for sale by M. S. Pratt, Frederika, Iowa, on page 22.

John Cash, Jr., Parnell, Iowa, announces a public sale of high-class Aberdeen Angus cattle to take place at Williamsburg, Iowa, on October 16th. Extra good cattle of the most approved blood lines will be sold. Anyone interested should keep this date in mind.

John I. Dripps, Springville, Iowa, has a fine lot of fall and spring big-type Poland China boars for sale. The fall boars weigh over 300 pounds and have been vaccinated against cholera. If you want a good boar see page 23 and write Mr. Dripps, mentioning The Homestead.

1913 Model Ohio Silo Filler.

On the top of fifty-nine years of successful manufacturing the Silver Manufacturing Company have placed a number of improvements on the new 1913 model of the Ohio silo filler. With it the company claims that our readers can fill the highest silo quicker and cheaper with good ensilage than even silo men dreamed of. Full information about the improvements will be found in the advertisement of the Silver Manufacturing Company whose address is 309 Broadway, Salem, Ohio, on page 12 of this week's issue.

Lawson's Boar Bargains.

On page 23 John B. Lawson, Clarinda, Iowa, is offering some great bargains in spring boars sired by Long King's Equal and A Wonder Jumbo. We have seen these pigs and we will say that he has a lot of boars that will make the best of herd boars and inasmuch as he is not making a public sale this fall he is offering them at private treaty. He also offers some splendid sows bred to these two boars for fall litters and they will be great bargains to any breeders who will buy them. Don't delay ordering one of these at once and we know you will be satisfied. Kindly mention this paper when corresponding with him.

Imported Belgian Stallions and Mares.

R. F. French, Independence, Iowa, a well-known importer and breeder of Belgian horses can supply any of our readers with a high-class stallion or some mares that have lots of size, heavy bone and plenty of quality at a reasonable price. A representative of this paper recently inspected Mr. French's Belgians and were very favorably impressed with the high character of the horses found there. A fine bunch of two and three-year-old stallions are ready for sale. The band of mares and fillies are a fine lot. These mares have the size and quality and are the real draft type. Most of them are safe in foal to the best of imported stallions. Any of these mares or stallions are for sale and at a reasonable price. Mr. French will show at the Iowa State Fair and invites all interested to call at his barns and get acquainted with him and inspect the horses he will have on exhibition. Independence is located on the Decorah branch of the Rock Island and on the main line of the Illinois Central. The farm is one-half mile east of town. See page 20 and write Mr. French for any information you want, kindly mentioning The Homestead.

Chas. H. Murray's Chester Whites.

A gentleman that has made a success of the hog business in a very few years is Chas. H. Murray, Friend, Neb. He pinned his faith to the Chester White and they have surely come through. About four or five years ago Mr. Murray became interested in the white hog. They appealed to him, and he had a couple of the country's best herds close at hand and from these he secured some foundation material. He has at no time made any extravagant purchases and has never tried to sell his stock at more than their worth on a very conservative basis, but good business methods and fair dealing have won him a world of friends and have made him money. Mr. Murray looks forward to the time when better hogs than he owns will not be had anywhere and today he offers a class that will be found profitable and high class. The well-known boar, U. S., is still in service and also Fairmont Chief. These boars are a bit different type, but they mate well on each others get. Mr. Murray has a good bunch of fall boars for sale, and they are big, husky fellows that will go out and sire a lot of pork. They are priced right, and mostly have been immunized against disease. Mr. Murray will also be at the Nebraska State Fair with a good lot of spring pigs and will be pleased to meet all his old friends at that time. Those interested in a good fall or spring boar will do well to write Mr. Murray at once and kindly mention this paper when doing so.

Wyckoff's Poland Chinas.

On October 9th, S. C. Wyckoff, Kellerton, Iowa, will make a public sale of about forty head of his large-type Poland Chinas and he will have a splendid lineup for the breeders. He has 100 head of good spring pigs and these are mostly sired by Kellerton King, a son of the famous Long King, and Good Orange, a son of Big Orange. He also has two good litters by a grandson of Mouw's Big Jumbo. Mr. Wyckoff has been building up a splendid herd of the strictly big-type Polands, and he has today one of the best herds in south central Iowa. He has been buying of the very best breeders and of the strictly large-type strains, and he not only has a well-bred herd, but he also has one of the best herds of big Polands in southern Iowa. He will have a splendid lot of boars in his coming sale as well as some good sows. He is right close to Missouri so that the breeders from that state can easily reach him as well as the people from farther north. He will be pleased to have any of the breeders come and inspect his herd at any time and he always has some good stock to offer them. If you write him a card and mention this paper he will put your name on his list for a catalog and will send the same to you just as soon as it is out of print.

Reese's Prize-Winning Chester Whites.

One of the oldest breeders of Chester Whites in the state, one of the best showmen in this country, and owner of one of the best herds in the land is L. C. Reese, Prescott, Iowa, and if we were to simply judge him and his herd by the winnings he has made, together with the winnings of animals and their descendants bred by him, you will all readily accord to him a place in the front rank of the Chester White breeders in this country. Mr. Reese has not got the number of pigs this year that he generally has, but what he has got are good. He has twenty choice spring boars that are good enough to head good herds and he has a good fall boar and a yearling. All the spring boars are sired by Don Raymore 19139, a first-prize winner at Topeka and Hutchinson. In 1911 he was second-prize boar at Lincoln, being defeated only by the noted boar, Pathfinder. He was also first-prize champion boar at Kansas City and this ought to be sufficient to show his excellence as an individual and his pigs will do the rest for him as a breeder. He has two very choice spring boars by him that are out of Susanna, his champion sow at four states in 1911, and she was in the herd that won first prize over everything in nine states. These boars are strictly choice and the breeder who is wanting a boar to head his herd will find these to be strictly all right. Another good pig is out of Belle Lily and he has others that are out of some of his other good sows. The best fall boar he has is sired by Brewster Boy and out of the old champion sow, Susanna. Mr. Reese will not show this year and he will therefore sell these boars out at private treaty. If you want one of them write him at once and kindly mention The Homestead.

Nelson & Sons' Short-horns and Poland Chinas.

A herd of Short-horn cattle that is among the very best of the state, and a herd of Polands of the same order are the sort kept by S. A. Nelson & Sons, Malcolm, Neb. These gentlemen are becoming well known to readers of The Homestead as they have been persistent advertisers, and they surely have been delivering the goods to The Homestead buyers. These gentlemen constitute one of the strongest firms of pure-bred stockmen within the state, for they are amply able, both financially and otherwise, to take care of a large proposition. They are today farming about two sections of land adjoining the village of Malcolm and they also operate a stock ranch in the middle western part of the state. These gentlemen have spared at no time money or any reasonable pains to secure the very best breeding stock and while at times some stockmen have thought their judgment not the best, yet time has proven that they saw farther than the other fellow, which after all is the determining factor that makes for success in the good stockman. One point that we have in mind in particular was when these gentlemen embarked in the big Polands. The boars that they bought seemed entirely too big to some, but today they are the very sort that people are after. Another time when these gentlemen began buying the best Scotch Short-horns, many said they were too much for those excellent Scotch cows and herd bulls. Time has proven that they were good investments. A significant fact, and one that will interest good stockmen is the matter of a couple of sales from these herds this fall. On November 7th they will sell about fifty-five head of Short-horns and on the next day some forty big Polands. These Short-horns are largely Scotch and of the very best, and the Polands are sure the extra big ones, many being bred by and direct from the Peter Mouw herd and of the best of his big stock. It is unfortunate that no more of the get of A Mastodon and Long King's Model will be in this sale, for these are two of the best breeding boars that the writer has knowledge of. However, as they had but a few old sows and they farrowed at a time when they saved but a small per cent, few of this breeding will be offered. Some excellent Scotch bulls, magnificent individuals and of splendid pedigree will go in this fall sale. They are headers for the real herds. Females the equal of nearly anything to be found will also be included. Keep the sale dates in mind and remember that these sales will be

The Greatest Crimson Wonder Offering of the Season

FROM THE TWO NOTED HERDS OF W. M. SELLS AND SWAN & ELLIS

INDIANOLA, IOWA, AUGUST 6, 1913

SOME WONDERFUL HERD BOARS IN THE SALE

THIS is one of the most attractive Duroc Jersey offerings of the fall season. There will be four fall boars in the sale sired by the grand champion and sire of grand champions, **Crimson Wonder Again,** and two of these will be out of that wonderful brood sow, **H. A.'s Queen.** No better boars for herd boar prospects will be offered in any sale this season. Two outstanding spring boars will be sold sired by the sensational grand champion boar, **I Am A Crimson Wonder 2d,** and there will be **12 sows in the sale bred for fall litter to this noted hog.** There will be 4 boars by **Col. Gano,** one by Wonder's Chief, and one by the Iowa and Nebraska grand champion boar, **Valley King.** One of the Crimson Wonder Again boars is a full brother to the champion boar, **Crimson Wonder 3d.** There will also be 2 good boars by **L. E.'s Col.** There are some outstanding good sows in the sale, among which are 3 fall sows out of H. A.'s Queen and sired by Crimson Wonder Again. There are no better than these anywhere. Then there will be daughters of such noted sires as **Freed's Col., W. L. A.'s Choice Goods, Crimson Wonder Again, Golden Model, Col. Gano, L. E.'s Col., Protection Col., S. J., Buddy K.** and other noted boars. There are some wonderfully high-class herd boars in our sale, and some grand good sows bred to **I Am A Crimson Wonder 2d,** one of the greatest Crimson Wonder show and breeding boars now living. Write for our great catalog and come to the sale. M. T. White will represent The Homestead at the sale and will care for bids sent in his care.

W. M. SELLS or SWAN & ELLIS . . . . . INDIANOLA, IOWA

KRASCHEL, ALLEN AND PUTNAM, Auctioneers

held in Lincoln, the better to accommodate the breeders. They will be glad to have a postal with your address that they may send you a catalog when ready.

Auto Transmission Without Gears.

Gears under the most favorable conditions are somewhat complicated and wear a great deal. The Cartercar Company, Pontiac, Mich., have eliminated this difficulty in their motor cars by using a gearless transmission. More can be learned about the matter by referring to their advertisement on page 7 of this week's issue.

The Perfect Corn Harvester.

The old saying "experience is the best teacher," applies in many cases. There are also many instances where people can profit greatly by the experience of others. To our readers who are interested in a corn harvester we desire to call attention to the letter used in the advertisement of the Love Manufacturing Company, Dept. 15, Lincoln, Ill., which appears in our issue of this week on page 10.

The Neighborhood Baling Press.

In some localities a number of farmers club together and buy a power baling outfit for their own use. Baling hay is becoming more popular every year since it saves a large portion of the crop that is destroyed if the hay is allowed to remain in stack long, and also makes it possible to easily dispose of any surplus. It is very easy for a number of farmers to use the same machine, and in some instances to rent it to their neighbors who are not financially in the deal, thus making the outfit practically self supporting, and the members of the club getting most of their baling done without much cost. More information in regard to the success of this scheme can be learned from the Sandwich Mfg. Co., 170 A. St., Sandwich, Ill., manufacturers of power presses. See page 7.

Satre Chester Whites.

A representative of this paper recently visited the farm of G. O. Satre, Jewell, Iowa, who breeds Chester White hogs and advertises them on page 23. At the present time he wishes to make a quick sale of ten head of excellent fall sows which have been bred for August litters. These are good individuals, with strong, well-arched backs, good feet and early maturing tendencies. They are of good lines of breeding, carrying the blood of Keep On, Lewis R. and others that have been equally prominent in state fair show rings. They have been bred to Iowa Pride 8th, a Hoover-bred hog whose ancestry is equally as popular in all its lines. Mr. Satre has coming one an excellent bunch of spring hogs of which later details will be given in this paper. Do not forget that very low prices will be quoted in the section mentioned above. Address inquiries to G. O. Satre, Jewell, Iowa.

Fred Sexsmith's Polands.

The other day we called upon Fred Sexsmith, Orient, Iowa, and he showed us eighty head of the best pigs that we have ever seen him have on the farm, and you will say he has them when you see him at the Iowa State Fair this fall. Nearly all of these are sired by big Orient, a son of the prize-winning boar, Big Tom, that he is using at the head of his herd. He has five fall boars, four of which are sired by Big Orient and one is by I Am Big Too, the sire of Futurity Jack, the futurity winner at the Nebraska State Fair. This boar, Big Orient, was a winner at Des Moines, and he is certainly siring a good lot of pigs for him. He has a litter over there by him out of a sow called Tekamah, that are some pigs and you will say so when you see them. There are four boars and two sows in this litter and one of the best boar pigs we have got our eye on this season is in this bunch. The dam of these pigs is by Ideal Tecumseh, and he was by old Tecumseh Ideal that made the reputation of the Remington herd. Another splendid litter is out of Sunkist Lady, and she is also a daughter of Ideal Tecumseh. Some splendid boars in this litter. Another good litter is out of Miss Pawnee Nelson, and she is a daughter of old Pawnee Nelson. He has a lot of her good ones and if nothing goes wrong between now and fair time he will have some good things with him at Des Moines. We, therefore, say to our readers to look him up at Des Moines.

Cox & Son's Mule-Foot Hogs.

With this issue of this paper, J. W. Cox & Son, Arapahoe, Neb., the pioneer breeders of mule-foot hogs, start an advertisement in which they offer some very choice young stock. The writer visited this herd earlier in the season and we wish to say that we saw some mighty choice mule-foot hogs, the best in fact that we have ever seen. The sows were great big, roomy, motherly looking matrons, and they had big litters of very fine pigs. These gentlemen have been buying the very best stock that they could find for sale and with good care have improved them somewhat. Great claims are made for this breed by men who have raised them for several years, as to their hardiness. They are good, prolific stock and we believe that those that fancy something of the newer order will find in the mule-foot hogs what they are looking for. They have been immensely popular with all that have tried them of which the writer has come in contact. Parties interested will do extra well to address J. W. Cox & Son, Arapahoe, Neb., at once and mention this paper when writing. See advertisement on page 23.

Adams' Poland China Sale.

C. F. Adams, Owasa, Iowa, will hold a sale of bred sows on August 7th at his farm. Eighteen sows will be sold and for size and smoothness they are a grand lot. Over half of them are by Big Halvor, one of the most noted big-type boars in the country. Not only is he big, but he has been siring a grand lot of big, smooth sows and boars. These sows are bred to Orange Boy by Big Orange, and Sampson by Long King. Mouw's Black Miss sells in the sale and she is a great two-year-old sow by Black Big Bone and out of a Big Jumbo sow. She has three pigs at her side out of a litter of eight sired by the Sensational young boar, Maid's Halvor 1st. Big Wonder is a good two-year-old sow sired by Big Halvor. Long Maid 2d is a grand, good, large sow sired by Coming Wonder and out of the noted sow, Long Maid. Big Maid is a litter sister to the great boar, Maid's Halvor 1st, being sired by Big Halvor and out of Long Maid. She is worthy to be a sister to any great boar as she is big and smooth. It is the opinion of the writer that Mr. Adams is making too much of a sacrific in cataloging so many really top sows in this sale as they would bring twice as much in a winter sale, but his theory is that he is inviting breeders to attend this sale and he is putting in the tops of the herd to attract buyers. Surely any breeder in the land can help the average of his herd by buying one of these good sows. Two herd boars are listed, Grand Chief, a good four-year-old boar sired by Dry Creek Chief and out of a Long Wonder dam. Grand Chief is a sire of good pigs as Mr. Adams can show you on sale day. Fairfellow 2d is a yearling boar by Fairfellow and will do good for someone. Don't miss this sale. Send for catalog mentioning The Homestead. Carlos C. Palmer, will represent The Homestead at this sale.

Hay Presses.

The Auto-Fedan Hay Press Company, Kansas City, Mo., have in their new belt power press a very successful self-feed two-horse-power hay press. Two men can operate it. Anyone who contemplates making a business of hay baling, or who have hay to bale on their own farm should write for full descriptive circular and price list. When writing mention this paper.

Auto Tires.

The National Tire Company, Kansas City, Mo., publishes a price list of automobile tires in their advertisement on page 10. They offer what are known as factory seconds and sell them at greatly reduced prices. This concern is perfectly reliable in every way and worthy of your patronage. They positively do not handle rebuilt tires. All tires are shipped on approval and if for any reason they are not wanted express charges both ways will be paid and the purchase price refunded. A large business has been built up in seconds. They differ from firsts in two ways. They are not guaranteed and they do not cost so much.

Hanna's Short-horn Dispersion.

A study of the catalog for the dispersion sale of D. R. Hanna's Cottage Hill herd of Short-horn cattle at Chicago, Tuesday and Wednesday, July 29th and 30th, reveals a most attractive lot of pedigrees. There are thirteen imported cattle listed, eight females and five bulls, while in the American bred list will be found daughters of Villager, Village Denmark, Village King, Anoka Sultan, Imp. Knuckle Duster, March Knight, Mystic Archer, Cermonious Archer, Merry Robin, Nonpareil Crown, Prince Gloster, Silverdale, Superbus, Maxwalton Sultan, The Conqueror, Avondale, Imp. Silver Mist, Diamond Jubilee, Imp. Blood Royal, Imp. Pennan Commander, Whitehall Count, Royal Sultan, and a host of other good bulls. The list of bulls includes Village Denmark and Villege King, by Imp. Villager; Imp. Champion of Scotland, by Newton Crystal, by Opal Stone; Imp. Corner Stone's Heir, by President of the Mint; Imp. Scotch Mist, by Golden Mascot; Imp. Gold Buckle, by Golden Mascot, and several young bulls by the great Villager. Sixty-six head of this offering were bred on Cottage Hill Farm and represent the best efforts of two decades of breeding. It is a sale that every Short-horn breeder and admirer should attend. It is an absolute dispersion and there will be cattle for every possible want. Breeders, beginners and farmers will each find something they need in this offering. The final announcement appears on page 21. Look it up and arrange to attend this sale. If you have not yet secured a copy of the catalog write for one at once to John Garden, Ravenna, Ohio. mention The Homestead.

Choice Hampshire Swine.

With this issue of this paper, C. S. Bratt, Arapahoe, Neb., is changing his advertisement from Shetland ponies to big Hampshire boars and gilts. Mr. Bratt has several choice ponies still on hand, but he wishes to move some of these excellent Hampshire pigs. Mr. Bratt is one of Nebraska's most progressive stockmen, and is located in that splendid Republican river valley. On this farm he maintains a stud of choice Shire horses and also excellent Shetlands, as well as one of the most famous flocks of Rambouillet sheep in the country, a fine herd of Short-horn cattle and the herd of Hampshire hogs. Mr. Bratt has a good herd of Hampshires and the stock he is now offering is of the right sort. We would suggest that our readers write him immediately for prices on this stock and when doing so, kindly mention this paper. See advertisement on page 24.

A Great Crimson Wonder Offering.

One of the greatest offerings of Duroc Jersey boars and sows that will be sold during the early months of the fall season will be made by W. M. Sells and Swan & Ellis, at Indianola, Iowa, on August 6th. These breeders have joined forces and are putting in the best they have and they are certainly selling something that should be attractive to breeders. They will sell about fifty head, among which will be sixteen boars and among these are some outstanding herd boars. Four of these fall boars are sired by that old grand champion, Crimson Wonder Again, and two of these are out of that sensational brood sow, H. A.'s Queen. We seriously question whether two better boars than these, sired by Crimson Wonder Again, and out of H. A.'s Queen, were ever farrowed and we realize that some great herd boars have come from this mating before. Three litter sisters to these boars also go in and these are simply outstanding and no man will go wrong in buying them, we care not what he has to pay for them. There will be a Crimson Wonder yearling boar in the sale and he is out of Model Queen 4th, a full sister to Model Queen, the grand champion sow that sold in the Putnam sale for $715. Two other excellent Crimson Wonder fall boars are out of Perfection Maid, the dam of the grand champion boar at Idaho State Fair, and she will also be sold bred to the champion boar, I Am A Crimson Wonder 2d. There will be another good fall boar that is sired by the second-prize Iowa State Fair boar, Wonder's Chief, and two splendid spring boars sired by I Am A Crimson Wonder 2d. The latter boar now heads the Swan & Ellis herd, and he is not only a grand champion winner himself, but he is also the sire of a number of first-prize winners at the Nebraska state and other leading fairs. He is one of the best Crimson Wonder boars now living, and his record as a show and a breeding boar now puts him in the front rank and as a special attraction these two firms are selling twelve of their very best sows bred to him for fall litters. The two spring boars that we mentioned above are exceptionally growthy, one a very stretchy, dark, cherry red and either will look good at the head of any herd. There will be a good April boar by old Valley King, four good Col. Gano boars and two by L. E.'s Col. Swan & Ellis are listing eight of their best sows bred to I Am Crimson Wonder 2d, and among these is Perfection Maid 3d, the dam of the Idaho grand champion boar; May Watson, a daughter of old Crimson Wonder Again, others sired by Protection Col., Muncie Prince, Mc's Improver and other well-known sires. Mr. Sells is selling Belle of Boone Again, a daughter of the Iowa State Fair grand champion boar, Freed's Col., also a daughter of W. L. A.'s Choice Goods, Model Chief, Crimson Wonder Again and Model Chief. It is a sale where breeders wanting herd boars or some high class sows will be

The noted Duroc Jersey breeding boar, King The Col., at the head of the O. S. Larson herd, at Logan, Iowa. He is the sire of Col. Sensation and Col. Gano, both 1,000-pound hogs. See Larson field note on page 19.

particularly interested and they will make a mistake if they fail to attend this sale or be represented with a bid. Write either Swan & Ellis or W. M. Sells, Indianola, Iowa, for a catalog and kindly mention The Homestead. Mr. M. T. White will represent The Homestead at the sale and will care for any bids sent in his care. See page 18.

Angus Heifers for Sale.

A. G. Messer, Grundy Center, Iowa, is sold out of Angus bulls, but offers some very fine yearling and two-year-old heifers at reasonable prices. Some of these heifers are safe in calf to a son of the noted sire, Black Woodlawn. Three good January bull calves would be sold. See page 21 and when writing kindly mention The Homestead

The "Ingeco" Kerosene Engine.

The high price of gasoline is increasing materially the cost of operating gasoline engines. The International Gas Engine Company, 152 Helthoff Place, Cudahy, Wis., have an announcement concerning their kerosene engine on page 13 of this week's issue which will be interesting to many of our readers. They claim for it that it will save one-half of the fuel bill over the cost of a gasoline engine.

Gustin's Durocs.

F. Gustin, Elmwood, Neb., owner of one of the good herds of his section of the state, is offering spring boars at private treaty just now. This herd is one that has been built up from good blood lines and the spring boars are the best that we have ever seen on the farm. The spring crop is nearly all sired by a good son of Advancer 5th. They are a very typical lot of Durocs, and we know that good value is being offered from this herd, when individuals and breeding are taken into consideration. The herd sows are strong in the blood of Stewart's great boar, I Am Perf. Wonder, and also Medoc, Golden Model 5th and a few others. These boars may be had at prices that makes them real bargains. Mention The Homestead and address F. Gustin, Elmwood, Neb.

Heisel's Poland Chinas.

J. B. Heisel, Grinnell, Iowa, has for sale two aged sows that are good enough to show at the fairs this fall and they are in good enough condition to show now. One of them is Modesty's Quality by Mastodan Chief, dam by Balanced Jumbo, while the other is a daughter of Chief I. X. L. He also has nine good fall boars by Ex's Wonder, one of the good sons of the noted Big Ex. He has seventy-five spring pigs that are the best he has ever had on the farm. The spring pigs are sired by Ex's Wonder and Iowa Product, a son of Superior Hadley and out of a Big Longfellow sow. The spring pigs are surely a good lot. Mr. Heisel has about twenty sows bred for August and September litters that will be sold worth the money. These sows are the right kind. Mr. Heisel breeds for size, prolificacy, smoothness and heavy bone. If you want something good see page 23 and write him mentioning this paper.

Ott James' Boar Bargains.

Did you order one of those big-type Poland China spring boars from J. O. James, Braddyville, Iowa, yet? If you did not you will have to get busy. He has a few boars by Big Orange and out of Ott's Choice, that are simply corkers at $50, and some that are full brothers to the Story pig, the Tom Walker pig and the Gutshall pig at the same price. The reputation of these boars we just mentioned is enough to make you want one of these boars. We have seen them and they are good and will make most excellent herd boars and you had better get your order to him at once and don't delay the matter. He is also offering to sell six head of two-year-old bred sows for fall litters that are decided bargains. These are bred to his noted boar, Big Orange, and he is also offering five good Big Orange yearlings bred to A Wonder's Giant, and this has always been a great cross. These sows will make 700 to 750-pound sows when matured. Mention The Homestead when you write him about these boars. See page 23.

Trumans' Pioneer Stud Farm.

J. G. Truman, Bushnell, Ill., writes: "Our importation of Shire and Percheron stallions and mares that arrived on June 24th are now in first-class condition, having fully recovered from their long journey. They are certainly an oustanding lot of horses taking them all around, not an ordinary one in the whole shipment. We have recently sold to the Halcott Center Percheron Horse Company, Green county, New York, an imported black Percheron stallion. This company is composed of twelve of the leading farmers and breeders of that county. To our old customer, William Quinn, Sr., Lewis county, Missouri, we have sold two imported Shire stallions. It is over twenty-five years since we sold Mr. Quinn his first stallion. To John A. Thompson, Scotts Bluff county, Nebraska, we have sold an imported Percheron stallion. We had a visit this week from our old friend, Harry Vann, Osage county, Kansas. Mr. Vann is a breeder of pure-bred Shire horses, his home originally being in Rugby, (England) neighborhood. He was looking for a strictly high-class Shire stallion to place at the head of his herd and we had no trouble in suiting him either as to horse or price, he selecting a strictly high-class two-year-old colt. To that enterprising breeder, C. F. Jones, Green county, Iowa, we have sold an outstanding imported Percheron which Mr. Jones expects to exhibit at the Iowa State Fair next month. We are still offering very attractive prices on either Shire or Percheron stallions and mares in order to make room for our regular July importation and shall be very pleased to mail our 1913 catalog to any of your readers requestiong same." Please mention The Homestead when writing these gentlemen.

SALE OF SENSATIONAL BIG-TYPE POLAND CHINA SOWS

TO BE HELD AT THE FARM NEAR

OWASA, IOWA, THURSDAY, AUGUST 7, 1913

ON THE above date I will sell 20 sows, most of them bred, that for size, smoothness and quality will be hard to equal in any sale to be held this year. They are yearlings and two year olds, over half of them by the sensational sire, **Big Halvor**. Big Maid is a mammoth sow, a litter mate to **Maid's Halvor 1st**, one of the best two year olds in the state. Mouw's Block Miss is a great two-year-old sow by Block Big Bone, dam by Big Jumbo. She has 3 pigs out of a litter of 8 by Maid's Halvor 1st that sell with her. Long Maid II and Big Wonder 3d are two extra good sows. The sows are bred to Orange Boy by Big Orange and Sampson by Long King. I am also selling 3 boars. Grand Chief is a great four-year-old boar by Dry Creek Chief. His pigs are right. Fair Fellow 2d is a yearling boar by Fair Fellow. We have the goods and extend a special invitation to breeders to visit us sale day. Write for catalog mentioning The Homestead. Carlos C. Palmer will represent The Homestead.

C. F. ADAMS - - - - **OWASA, IOWA**

Cols. W. B. Duncan and W. H. Cooper, auctioneers.

LARSON'S KING THE COL. SALE

LOGAN, IOWA, AUGUST 7, 1913

40 **HEAD---21 Spring Boars---One 2-Year-Old-Boar by King the Col. and 18 Spring Boars sired by him, 1 by Crimson Wonder 3d, 1 by Golden Model 11th** **40**

KING THE COL. is regarded as one of the greatest Duroc Jersey breeding boars now living. He is the sire of **Col. Gano** and **Colonel Sensation**, both 1,000-lb. boars, and two of the sensational boars now before the public. There will be 10 of my best sows in the sale bred to King the Col. for fall litters. Don't overlook this opportunity to get a King The Col. boar or a sow bred to him. Send for catalog at once and mention The Homestead. Address

O. S. LARSON - - - **LOGAN, IOWA**

N. G. KRASCHEL, Auct. **M. T. WHITE, Field Man for Homestead**

Larson's King The Col. Sale.

On August 7th, at Logan, Iowa, O. S. Larson will make a public sale of forty head of Duroc Jersey boars and sows and it promises to be one of the most attractive of the earlier fall sales of this breed. One of the reasons why the Larson sale is out of the ordinary at this time is because of the fact that he has at the head of his herd that sensational breeding boar, King The Col., possibly one of the most noted sires now living. He is the sire of that celebrated show and breeding boar, Col. Gano, a boar that made such a wonderful reputation last season at all the leading shows, and he is also the sire of Colonel Sensation, the 995-pound boar now in the Ashby herd at Aubudon, Iowa, and regarded as one of the largest Duroc Jersey boars now living. Other sons of King The Col. head good herds and his daughters have been good brood sows and have been much sought after by good breeders. In his forthcoming sale Mr. Larson will sell twenty spring boars (eighteen of these being sired by King The Col.) and one two-year-old boar called King The Col. Jr., also sired by the old hog. There are a splendid lot of spring boars in this sale and many of these are going to make excellent herd boars if properly grown out. The two-year-old boar, King The Col. Jr., is also a good hog and there are a great many breeders who can well afford to go after him. He is a stretchy fellow, with a good head and ear and is a good breeder. You will like him when you see him. He is out of Crimson Lady 2d, and is therefore better than a half brother to Col. Gano. Among the best spring boars listed are three by King The Col., out of Crimson Lady 3d. There are three boars in this litter and they are all good. They were farrowed in February and they are about as closely related to old Col. Gano as you will find them, and they will be large when grown out. Another good litter of four by King The Col., is out of Miss Choice Goods. One of these is an extra choice gilt that should be attractive. A litter of five boars by King The Col., out of a sow called Comet, is rather outstanding for those breeders who are looking for size. Another good litter by the same boar is out of Golden Pet, and she is a daughter of Golden Model 11th. Another good February pig is out of a daughter of Model Advance. These are just a few of the larger and best spring boars he will sell in the sale, and those who are looking for size backed by the very best of breeding should make it a point to attend this sale. There will be a Crimson Wonder 3d boar in the sale and one by Golden Model 11th out of a King The Col. dam. There well be four choice spring gilts in the sale sired by King The Col. He is also selling ten sows in this sale all bred to King The Col. Among these is a daughter of Waveland Col., one by Chief Muncie, one by Graduate Col., another by Col. Willetta, as well as several other good ones. The sow Comet, that is the dam of one of the best litters in the sale, goes in, also Crimson Belle and Orion's Lady, the latter being a litter sister to Crimson Lady 2d. There will also be four fall and spring yearlings and all of these are bred to King The Col. for fall litters. This is a sale where breeders should be particularly interested as there will be a lot of things in this sale that will help make the reputation of their herds. Write for the O. S. Larson catalog at once and kindly mention The Homestead. M. T. White will represent The Homestead at the sale and will look after any bids sent in his care. See advertisement on this page.

The above is a picture of the champion Duroc Jersey boar, I Am Crimson Wonder 2d, at the head of the Swan & Ellis herd at Indianola, Iowa. See field note of the Swan & Ellis sale on page 18.

Youngberg's Chester Whites.

One of the good bunches of Chester white spring pigs that we have seen this summer is owned by Emil Youngberg, Essex, Iowa, and the most of these are sired by Young Keep On, a splendid boar that he has at the head of his herd. He purchased this hog of L. C. Reese, and he is a son of his great show and breeding boar, Keep On. Mr. Youngberg has thirty-one head of boars on hand and he has a lot of good ones. He will be pleased to have Homestead readers come and see him or write him for prices on these boar pigs.

Harvey Moats Dead.

On Saturday, July 12th, at Villisca, Iowa, H. B. Moats, one of the oldest breeders of Poland Chinas in the state, passed away and this adds another to the ranks of the departed ones who have helped make Poland China history. Harvey Boreman Moats was born July 3, 1850, in Ritchie county, West Virginia. At the age of four he removed with his parents to Des Moines county, Iowa, where he grew to manhood. In 1875 he came to Taylor county, locating near Guss, where on March 6, 1878, he was married to Miss Alice Hamell. To this union eight children were born. To this but one of which are still living. Mr. Moats was well and favorably known to Poland China breeders and at one time had one of the best herds in southern Iowa. He formely owned the boar Big Perfection, that was regarded as one of the best breeding boars in the state, and he had a lot to do in bringing the Moats herd into public view. Mr. Moats was a most estimable gentleman, a true Christian and had all the qualities that go to make a patriotic citizen and a good husband and father. He was buried at his old home near Guss, Iowa, on the following Wednesday, surrounded by friends and relatives who knew him so well in life.

Get's All the Cream.

This is what is claimed for the speed governor if used in operating the cream separator, thereby maintaining a uniform speed all the time. It can also be used in the operation of churns, fanning mills, washing machines, etc. We direct the attention of our readers who are interested to the advertisement on page 11 of this week's issue of the Cedar Rapids Foundry & Machine Company, Cedar Rapids, Iowa.

Harvey Johnson Buys Boar.

We are pleased to report the sale of a breeding interest in the great Poland China boar, Chief Price Again, by Harvey Johnson, Logan, Iowa, the same having been secured from Frank Rainier of the same place. Mr. Johnson who has been one of the best breeders of Poland Chinas in the West has had an eye on the uniformity of the get of Chief Price Again for some time, and he thought enough of him that he wanted an interest in the old boar and he finally induced Mr. Ranier to sell him a breeding interest in the old boar. Inasmuch as some of the best boars heading good herds today in the West are sons of this well-known hog it looks like Mr. Johnson has got in on another good one.

Barber's Chester Whites.

That old and reliable breeder of Chester Whites, J. L. Barber, Harlan, Iowa, has 125 head of good spring pigs and he is carrying these along in nice shape for his fall trade. They are sired by High Style, International King and International Boy. These are out of splendid sows, many of which are as good as will be found in the West. He also has thirty-one head of good fall boars and these are sired by Gold Mine and Prosperity. Mr. Barber will sell these fall boars at any time and he has quite a few that are good enough to head good herds. He is also booking orders for spring boars to be shipped the middle of August. Write Mr. Barber about these at once and mention The Homestead.

Morris Fowler's Polands.

A recent letter from Morris Fowler, Arcadia, Neb., states that everything is doing well on the Plainview Stock Farm. Mr. Fowler has one of the real good herds of Poland Chinas of a great hog state. No bad distinction either. His herd foundation has been well selected, his stock of good blood lines as well as good individuals and in his hands they have had the care of an expert feeder and stockman, hence good hogs are on his farm. One of the best lots of stuff that we saw a year ago were on this farm, and his crop this season is as good, we think. The most of the spring pigs are by Tom Sampson by Shattuck's great boar, Sampson, and his dam was the great Anna Belle by Bell Metal. A show boar is on the farm having been purchased this year. He is Big Commander and comes from the Lingford herd and will be good competition in the junior yearling class at the state fair this fall. This Lingford stock is the sort that sure wins. The Fowler sow herd would do a good stockman good to look at, as they have been carefully selected from five or six of the best Nebraska herds and they are the real, big, smooth ones. Mr. Fowler has spring boars for sale. Real big ones from this excellent breeding and we would like for you

to write him. Mention The Homestead when doing so.

Ready-Made Corn Cribs.

The Miller Manufacturing Company, 8000 Alabama Ave., St. Louis, Mo., advertise their section corn cribs on page 13 of this week's issue. These cribs are built in sections four feet long by eight feet wide by ten feet high so that a crib of any length can be constructed of them. More complete information can be found by referring to the advertisement.

Seed Correctly Planted.

Poor stands, small grain, are often due to poor planting. Every seed should be sown at the proper depth so that no stalk will come up prematurely or not at all, which happens if seed is too deep. Grain grades best when all the heads ripen at the same time. This only happens when all the stalks come up uniformly. Our readers who are interested in correctly planted grain should read the advertisement of the Peoria Drill & Seeder Co., 2435 North Perry St., Peoria, Ill., which appears on page 12 of this week's issue.

Evolution of Rubber Tires.

In the nineties the idea of applying rubber tires to buggies was first conceived. The first rubber-tired vehicle was tried out in Detroit, and like the first bicycle, created considerable interest, also comment and criticism. Like most all innovations, the carriage tire was considered a fad. However, it has grown remarkably until at the present time it is a staple article. The demand for carriage tires is increasing each year, which is proven not only by the number of tires manufactured, but also by statistics from the buggy and carriage manufacturers. It is claimed that approximately one-half of the vehicles having rubber tires are equipped with Goodyear carriage tires whose popular brand is the solid Wing Carriage Tire. This will be found in the advertisement of the Goodyear Tire & Rubber Co., Akron, Ohio, on page 6 in this week's issue.

Frazer Bros' Polands.

A recent letter from Frazer Bros., Waco, Neb., states that everything is coming in good shape at their farms. They report some extra good, big pigs by Big Jumbo and out of a daughter of the 1,050-pound Long Chief. This sow is one of the largest in the West today and is a record producer. Orient, a yearling boar, purchased of Walker & Son last season is siring good stuff and will have some produce at the fair this fall. Two litters of pigs by Columbus are doing fine, and look as though there should be some good breeding stock among them. They are keeping a lot of Orient sows or rather gilts, and for that reason the boar will be for sale. They have bred a number of sows to him for fall litters and this will make them an abundance of this breeding. This boar's get may be seen at the fair, and probably the boar also. If interested in an extra good yearling boar proposition see this boar. Should you write mention The Homestead.

Holly Dunn's Polands.

On October 3d, H. F. Dunn, Clarinda, Iowa, expects to make a public sale of Poland Chinas and he will sell about fifty head. This herd has come into public notice largely through the splendid boar that now heads his herd, and this is no less than Big Jumbo, Jr. 62433. He is a son of Mouw's Big Jumbo and his dam is Lady Wonder 11th by Big Hadley's Model, and his grandam is the 900-pound sow, Lady Wonder 6th, that was formerly owned by O. N. Remington, Tekamah, Neb. This sow was unquestionably one of the greatest big-type brood sows that has been seen in the West in these many years and her descendants have been sought after by the best breeders both East and West. This boar is somewhat lame at the present time, having injured his toe and the hoof came off, but he is doing well now and Mr. Dunn expects to pull him through all right. He weighed 1,000 pounds just before he got hurt and Mr. Dunn has been offered some long prices for him. He is a hog that has a wonderful lot of finish for a hog of his size, and is a well-balanced boar for a hog of his proportions. He has fifty good spring pigs by him, and among these are some splendid boars. He has a lot of good fall sows sired by him and he will sell some of these in his fall sale. We will have more to say of his offering later in the season.

Iams' New Importation.

In a recent letter from Frank Iams, St. Paul, Neb, he says: "My business was good the past year and I only have some of my best show stallions and Paris winners left. You can tell your readers that my 1913 importation will arrive in December and the best that money and thirty-one years' experience will buy will be in this bunch of horses. I expect to bring over with me the best stallions that will be bought in Europe this summer and I will have with me some of the best mares that I can get over there. I have sold some grand good horses the past season and every man that came to my place was well pleased with their purchases. Thirty-one years of square dealing has convinced the buying public that Iams not only has the goods, but he delivers them for less money than they can be bought for elsewhere, and as they keep a coming and want the horses I presume the only thing I can do is to bring them over. You will therefore hear from Iams again the coming season with the best bunch of stallions and mares that he can buy in Europe."

"RANGER" BICYCLES

Have *imported roller chains, sprockets* and *pedals; New Departure Coaster-Brakes* and *Hubs; Puncture Proof Tires; highest grade equipment* and many advanced features possessed by no other wheels. *Guaranteed for 5 years.*

FACTORY PRICES direct to you are less than others ask for cheap wheels. Other reliable models from $12 up. A few good second-hand machines $3 to $8.

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TIRES Coaster-Brake Rear Wheels, lamps, parts and sundries *half usual prices.* Rider Agents everywhere are coining money selling our bicycles, tires and sundries. Write today.

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How to grow Alfalfa, how to feed it, how to harvest and care for it. Full information for corn belt farmers who wish to grow this most profitable hay crop will be sent free on application. Also a sample of our extra choice high grade seed.

IOWA SEED CO. Dept. D1, **Des Moines, Iowa**

PATENT ATTORNEYS

ORWIG & BAIR

Crocker Building, Des Moines, Iowa

THE LIVE STOCK MARKET.

Union Stock Yards, Chicago, Ill., July 19.—Cattle, barring prime grades and live mutton values are closing the current week on a lower basis than one week ago, while hogs have hit the highest altitudes touched since early in March last and good light and butcher weight hogs are scheduled to do more awaiting.

Save for stereotyped and unnecessary erraticness of the live mutton trade, no branch of the market is in need of an apologist. Beef steers selling now below the 8½c line are irregularly 15 to 25c lower than a week ago as are most grades of butcher she stock, but a study of supply figures and of character of the offering reveals a reason. Considering the size of the marketing the trade has by no means performed badly after a fashion that should discourage owners of qualified half-fat classes from holding their stock for a respective finish.

Chicago cattle receipts for the week show an increase of 15,000 head over the week previous and the six market supply on aggregate increase of approximately 40,000, a big gain in receipts being shown at Kansas City and St. Louis whose hoppers have been full of Southwestern grass stuff running in seasonable fashion from Oklahoma and Texas and from dry sections of Kansas. Nothing from the Northwestern range has as yet put in an appearance, but a train from the Standing Rock reservation is due to arrive next week and will furnish a tryout. Advices from the Northwest indicate that beef gathering will be late, as range cattle went into the grazing season poor, feed is abundant and owners have confidence in the later fall market which was a humdinger last year.

Not to exceed 25 per cent of this week's cattle supply has been well finished, yet less than 15 per cent has been of stocked or feeder class, and as it has been a steer run locally, it has hung up considerably beef. The stillery-fed delegation has been conspicuous and most of the sloppers have made $8.40 to $8.70. The $8.75 to $9.15 grade of choice to prime heavy corn-fed steers have sold steady as have yearlings good enough to pass $8.50 and prime babies have reached $9.00. The run has carried a raft of $8.00 to $8.50 steers at $7.85 to $8.75, a decent sprinkling of inferior and plain light killers at $7.10 to $7.75. The spread in prices between quality and inferiority is narrow and as grassers are running freely it is logical to expect the price range to widen, although old-time summer and fall spreads when she stock was plentiful and the range delegation large are not considered possible. The crops of Northwestern grass beef to show up at Chicago and Omaha this year is expected to show a decrease of 40 to 50 per cent from last year.

Largely increased runs of quarantine cattle at Southwestern markets are chiefly responsible for the declines noted from last week's good market on she stock below choice class. Supply of native cows and heifers has been small. Up to Wednesday noon the butcher market was fully as high as at last week's best time, but the pace could not be maintaining in the face of continued declines in low-grade and medium priced steers that were induced chiefly by competition from the Southwestern delegation at Missouri river markets. Finished yearling heifers as well as like grades of steers, have been prime favorites and hold firm, but half-fat kinds are involved in the declines, as are all fat cows below prime dry-fed class as well as canner and cutter stuff, though canners are not more than 10 to 15c lower. Prime-fed yearling heifers have touched $8.60 to $8.75, many sales of fed heifer yearling have been made within a range of from $7.85 to $8.35 and little heifer stuff fit for slaughter has sold under $6.50, although a scrubby dairy-bred sort of little runts ranged down to $5.50. A few prime-fed beef cows reached $7.75 to $8.00, bulk of good to choice butcher cows sold at $6.25 to $7.15 and a common to fairly good class of grass cows sold at $5.15 to $6.10, canners and cutters ranging from $3.40 to $5.10, bulk at $4.25 to $5.00. Bulls have sold well, closing 15 to 25c higher than a week ago. Bolongnas are making $6.00 to $6.80, bulk $6.25 to $6.65; bulk of the fat bulls selling at $6.85 to $7.40 and prime to fancy $7.50 to $8.00; very few higher than $7.60. Inferior to good canner bulls going at $5.00 to $5.75. Calves are higher than at anytime since last March, bulk of the vealers making $10.75 to $11.15, prime selected bunches $11.25 to $11.35. This market looks top heavy, but the trade is forcing a long period of light calf receipts and veal will be vended on a high level market for months ahead.

This has been the third successive week of a very narrow volume of trade in stock and feeding cattle. The corn belt is busy harvesting hay and small grain crops and inclined to defer its purchase of thin young cattle and material to fill its feed lots until another day. Meanwhile good pasturage conditions, bright future fat cattle markets prospects and the fact that the growing cron has been coming on in great shape have prompted holders of stock and feeding cattle to market them sparingly. Prices are close to steady with a week ago, a trifle lower if anything. That there will be a deficient supply of feeders in the range cattle run this summer and fall is certain and a serious shortage in the supply of stockers and feeders, as measured by demand, if the corn crop turns out as well as conditions now indicate, is expected to develop a few weeks later on. Nothing of decent quality in a 900-pound feeder class is selling now below $7.15 to $7.25 and only plain qualified stock steers below $6.85. Most of the fair to very good feeders are selling at $7.35 to $7.65, a choice fleshly kind being nominally quoted to $7.90, while best selected feeder steer yearlings reach $7.75 and bulk of the medium to very good stockers go at $6.90 to $7.50. Stock and feeding heifers are going largely at $6.00 to $6.60 and stock and feeding cows mostly from $5.00 to $5.75.

Hog trade continues to do all the most optimistic in the market predicted for it. Those who staked their reputation and money on the appearance of the 10 center before September 1st have their judgment yet to be vindicated, but at the rate the market has been going this week the arrival of the 10c hog will be chronicled much before that time. The market had a little set back on Monday of this week on a local run of over 50,000 head, but has been on short rations and climbing ever since, hitting Friday the highest average price basis touched since June, 1910, a general average of $9.30 and an extreme top of $9.60 being made in the Friday session. As compared with a week ago the bulk which sold Friday on a $9.15 to $9.45 basis was 30 to 40c higher. Since the low spot of the current year, which was early in January, the market has advanced over $2.00 per hundredweight. Eastern shipping demand is coming strong, quality is falling as the proportion of grassy sow stuff swells and the range in prices is rapidly widening. A decent heavy packing class is selling in small lots down to $8.80 to $9.00, but very little in car-load lots below $9.15 and selected light shippers in the upper registers $9.55 to $9.60. Some reaction is logically expected early next week, but the future market taken in a broad sense, looks bright. It is a case of deficient supply and steadily increasing consumption, both domestic and foreign. Provision stocks are accumulating, but every pound of product packers are able to put away at this juncture will be needed later, as the merchandising season is ahead and its necessities are recognized. Since January 1st eleven leading hog markets have received an aggregate of only 13,780,000 hogs, against 15,056,000 the same period last year

Live mutton values advanced 25 to 50c within two days this week and declined 50c to $1.00 in a general way within the three succeeding sessions, the widest fluctuations being on lambs which closed 50 to 65c lower than a week ago, while aged muttons and yearlings are largely 25c down, with a 50c break on heavy sheep. If there was ever a market which needed the services of a genius, capable of devising some method of regulating marketing of live muttons during the seasons when southern and native stock run freely, the ovine market of the past six weeks has been it. The main source of trouble has come through the hap-hazzard manner in which this season's generous run of southern lambs has been put up to the killer in a great gob one week and in homeopathic doses the next. A veritable flood of southern lambs have been dumped into the market hopper this week. Prospects for the coming week are that the run of native and southern stock will be shut off, but a material increase in the range movement is cited, and recovery of declines enforced this week can only come through a sharp reduction in supplies of southerners and natives. At this week end limit on native lambs is $7.75 and the bulk of the fair to good killers go at $7.25 to $7.65. Handy-fat ewes are selling at $4.50 to $4.75; heavy and mixed weights at $4.00 to $4.25. From now on range stock will be strongly in the lime light. First Montana wethers of the season got in late this week, a choice, handy class with a long breaker end that sold at $5.25. Plain heavy California wethers sold during the week at $4.25 to $4.65. There is already hungry demand for feeding lambs around a 6½c basis, but few available as yet. Plain Washington feeding yearlings went out at $4.50 and yearling breeding ewes in the same shipment at $5.25. There is fair call for fair to good native breeding ewes at $4.00 to $5.00 for decent to choice.

TOO LATE TO CLASSIFY.

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a grand bunch of mares and fillies. Mares are all in foal to imported stallions. I will show at the **Iowa State Fair** and want to meet all interested in good Belgians. See my exhibit. I will be pleased to meet you. Farm one-half mile from town,

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AVERAGING 12 months old, weighing from 1,000 to 1,200, in good condition, now offered for sale. Intensely bred Anxiety 4th bulls with good bone, heavy hind quarters and droop horns. By Beau Gondoline, Rex Onward 4th and Bright Lad from Beau Donald 12th and Beau Brighton dams. We also have 50 head of the plainer sort of registered Hereford bulls. **A. SPOONER & SONS, MONDAMIN, IA.**

RED POLLED CATTLE.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.

FRANK J. CLOUSS - BARNUM, IOWA

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles. Plattsmouth, Neb.

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

PRIZE WINNING RED POLLS

AN extra heavy milking strain of prize winning stock is the kind we breed. Stock for sale. Mention Homestead and address,

Geo. Hassler & Son, Holbrook, Nebraska

STOOKER'S STOCK FARM

COMPLETELY sold out of Red Polled cattle and Percheron horses for the present. Will have young stock to offer late this fall and winter. Watch Homestead for announcement.

F. A. STOOKER, DUNBAR, NEBRASKA

A. S. ALEXANDER, V. S.,

MADISON, WISCONSIN

Veterinary Editor The Homestead.

CONSULTING VETERINARIAN. Advice and prescription by mail $1.

OVERGRAZED RANGES COME BACK.

The improved condition of the national forest range after regulated grazing is pointed to by experts of the department of agriculture as a demonstration that areas which have been severely damaged through overstocking by sheep and cattle can be brought back to their former carrying power through a system of sufficiently intelligent use.

When the government took charge of the live stock ranges within the national forests some of them were so badly overgrazed and otherwise injured from reckless handling of the stock that their grazing value appeared to have been almost entirely destroyed. Many of these ranges, however, have been restored and made as valuable as ever. On several of the forests results have more than justified the expectations and the range is in better condition than it ever was.

An example of this improvement is cited in the Nebo national forest, Utah. In 1908, when that forest was created, the ranges within the forest boundaries were found to be badly overgrazed and trampled because there was a lack of any control or supervision over the areas. One of the areas was at that time estimated to be capable of carrying only 3,000 head of cattle. Now, through conservative management and judicious distribution of the cattle over the ranges, and improvements of water conditions, the carrying capacity of the range has been increased until, in the present grazing season, nearly 8,000 head of cattle are using this particular area, and forest officers feel that a few hundred more can be safely grazed there without injury.

Ask your neighboor to subscribe for The Homestead.

Mr. Short-horn Buyer, Attention!

DO not overlook the dispersion sale of D. R. Hanna's Cottage Hill herd at Chicago, Illinois, Tuesday and Wednesday of next week, July 29 and 30, 1913. There are 125 head cataloged for this sale, every one with a strong Scotch pedigree. Fourteen bulls are listed, 5 of them imported. Seven sons of the great Villager are cataloged, including the sensational Village Denmark and Village King. There are a number of high-class imported cows in the sale that will add strength to any herd. Sixty-six head of the offering were bred on Cottage Hill Farm, and are the get of imported Villager, Village Denmark, Village King, Royal Diamond, Merry Robin, imported Silver Mist, Misses Diamond, Spicy Diamond, Anoka Sultan, Diamond's Victor and others, while the balance of the offering is sired by some of the greatest bulls known to the Short-horn breed. Every female of breeding age is bred to either imported Villager or his sons, Village Denmark and Village King. It is an absolute dispersion and everything will be sold. No Short-horn admirer can afford to miss this sale, as there will be cattle to fill every want. Write for catalog, mentioning Homestead, to

JOHN GARDEN, Manager - - - RAVENNA, OHIO

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N. G. KRASCHEL
HARLAN, IOWA.
LIVE STOCK AUCTIONEER

I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

J. H. BARR, Hebron, Neb.
Auctioneer
Pedigreed live stock a specialty. Write for dates.

LIVE STOCK AUCTIONEERS.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

H. S. ALLEN, RUSSELL, IA.
LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

COL. H. L. IGLEHEART
Elizabethtown, Kentucky
LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

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153 SALES LAST SEASON
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ABERDEEN ANGUS CATTLE.

Alfalfa Herd Aberdeen Angus

WE now offer for immediate sale from the famous "Alfalfa Herd Aberdeen Angus" a few very choice bulls of serviceable ages, also a very desirable lot of females and young things. Readers of The Homestead searching for extra high-class breeding stock at prices well in keeping with the values offered, will be interested in what we have for sale. Write us or come and see us at once.

HARRISON & HARRISON - - - - INDIANOLA, NEB.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

ESCHER'S ANGUS BARGAINS

WE offer at private treaty **50** coming yearling Aberdeen Angus heifers, sisters in blood to champions and reserved champions at Chicago, 1911. Fifty imported females—most sired by our great imported bulls; 650 head in combined herds. Bulls of all ages, high-class herd headers for sale. Write or come and see.

Escher & Ryan, Botna, Iowa. **Chas. Escher & Sons, Botna, Iowa.**

LIVE STOCK AUCTIONEERS.

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SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

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WRITE for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

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PEDIGREED
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PROPRIETOR Elmwood Pony Farm. Shetland ponies for sale. Write for dates and information.

ANGUS BULLS

ONE 3-year-old TrojanErica, a grandson of Earl Eric of Ballindalloch and a good one. One Trojan Erica calved May, 1912 and 2 other bulls just right to do good work in some steer breeding herd.

A. G. MESSER, GRUNDY CENTER, IOWA.

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

ABERDEEN ANGUS CATTLE.

BULLS ALL SOLD

I HAVE a few yearling and two-year-old Angus heifers for sale, also three toppy bull calves that were calved in January.

A. G. MESSER, GRUNDY CENTER, IOWA

LIVE STOCK AUCTIONEERS.

O. L. MOSSMAN
MASON CITY, IOWA.
LIVE STOCK AND REAL ESTATE AUCTIONEER
Pure-bred sales a specialty Write for dates.

W. F. STRATTON
Nevada, Iowa

LIVE Stock and Real Estate Auctioneer—23 years' experience. Correspondence solicited.

Iowa State Fair and Exposition, Aug. 20th-28th

Some of the Farm Teams in the Exhibit at the Iowa State Fair Last Year.

Premiums $76,000 Race Purses $15,700 Exhibits 800 Car Loads

Bigger, better, more complete than ever. The largest premium offering in the history of the fair is calling forth more and better exhibits.

Most famous breeding districts of the world are searched by Iowa State Fair exhibitors for their best animals. All of the most successful live stock breeders show at the fair.

Greatest live stock exhibition in the world at the Iowa State Fair. The annual exhibition of live stock is estimated to be worth $2,000,000.

Most popular race meet in the middle West. Purses for the races this year total $15,700, the largest sum ever offered for the state fair race program, the first of the big fall race meets.

An ideal outing and summer school. Better than any short course. Object lessons in the most successful methods of agriculture and live stock breeding.

Ideas gained can be cashed into dollars. The wide-awake visitor gets new ideas which he can later turn to most profitable account. Lectures, demonstrations, something of profit for every member of the whole family.

Sixty acres in farm machinery. The only way the farmer can keep in touch with the wonderful advancement in machinery, so vital to the conduct of his business is to attend the fair.

A complete exhibition full of inspiration, recreation, instruction. A special program every day. Unusual opportunities for education and amusement.

"Old Mexico," big night show, spectacular and thrilling. Horse show five nights at the pavilion. Thrilling specialty acts. High hurdling horses. Four bands of music. Great fireworks display.

C. E. CAMERON, Pres., Alta, Iowa **AUGUST 20th-28th** **A. R. COREY, Secy., Des Moines, Iowa**

DUROC JERSEY SWINE.

ECONOMY STOCK FARM DUROCS

Boars at Head of Herd

Chief's Col. 22875, senior and grand champion boar at Illinois State Fair and one of the greatest breeding boars living.

Highland Chief, a son of Helen's Chief by Ohio Chief, and out of a dam by Golden Echo by Golden Rule.

200 Head Spring Pigs
20 Fall Boars For Sale

We are offering twenty very choice fall boars sired by Highland Chief and these will make splendid herd boars. We have 200 head of spring pigs sired by **Chief's Col., Highland Chief, Cherry King** and **Capt. Gano.** We are booking orders for these at any time.

10 Sows Bred to Chief's Col. For Sale

We are offering ten sows bred to the great **Chief's Col.** for September and October litters and they are bargains. Write us at once about these and kindly mention The Homestead. Address

Economy Stock Farm Co., Mel Kraschel, Mgr., Shenandoah, Ia.

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address

R. J. HARDING - - - - MACEDONIA, IOWA

I AM A CRIMSON WONDER 2d

(Grand Champion Boar at Sioux City)

THIS noted boar heads our herd and we will sell in our **August 6th sale** eight head of sows bred to him. Also sons and daughters of the champion boar, **Crimson Wonder Again, Col. Gano, L. E.'s Col.** and other noted sires. Send us your name, mentioning Iowa Homestead, so we can send you a catalog. Address

SWAN & ELLIS - - - - - INDIANOLA, IOWA

SHOW YARD DUROCS A Jr. year boar and a Sr. year sow, ready to take out this fall. Very best of breeding and right in every way. I will not show, and you may have these well worth the money. Write me now.
C. McCARTHY, R. D. 5, YORK, NEBRASKA

DUROC FALL BOARS
Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

DUROC JERSEY FALL BOARS for sale; also trios, reasonable prices.
L. L. DE YOUNG, SHELDON, IOWA.

DUROC JERSEY SWINE.

COL. SENSATION 98291

(THE SENSATIONAL BIG-TYPE DUROC JERSEY BOAR OF THE YEAR)

WEIGHED 995 LBS. ON JULY 7, 1913

WATCH for this great hog at the Iowa State Fair. He will weigh from 1,050 to 1,100 lbs. at that great show, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best big-type boars you ever saw. Don't fail to see him at the fair this fall. Will be pleased to show him to you if you come to the farm. Address

J. B. ASHBY - - - - - - - - AUDUBON, IOWA

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mount's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

THE REXALL HERD OF DUROCS

WE bred and owned the grand champion, Critic B. We still have his sire, Dusty Critic 2nd and have some choice prospects by him. Cedar Grove Clif, the first prize boar Kansas State Fair, also in use. He is a son of Lincoln Chief, the first prize boar, Neb. in 1911. We would like to hear from you if in search of some choice breeding stuff, and would like to meet you at the Nebraska State Fair.
DANFORD & DEWHURST - - - - ORD, VALLEY COUNTY, NEBRASKA

MENAUGH BROS.

GARDNER, ILLINOIS.

Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

DUROCS ARE POPULAR

BECAUSE they are the Profit Producers. Start right by buying a few choicely bred gilts. For further information apply to

B. W. LITTLE - JANESVILLE, WIS.

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

DUROC JERSEY FALL BOARS

OCTOBER boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears.
J. C. PORTER - - - - OGDEN, IOWA

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Addres.
Fred Swan - - - Missouri Valley, Iowa

THE BEST IN DUROCS

WE have 15 fall boars sired by Disturber (H. E. Browning's great boar), S.E.'s Premier Col. and Captain Model: 60 March boar pigs sired by Disturber, S.E.'s Premier Col., Cherry Chief, High Col., Volunteer and Captain Model. Best lot of pigs ever on farm. If you want a boar write me. 14-months Red Polled Bull for sale. Mention Homestead when writing.
S. E. Eakle & Sons - Prophetstown, Ill.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

YEARLING DUROC BOARS

I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices. R. R. Station, Tripoli.
M. S. PRATT, - FREDERIKA, IOWA

DUROC JERSEY FALL BOARS

REED'S big, growthy, heavy-boned fall boars, sired by Chief Select 88307 and Reed's TopCol. 40437a. If you want a big, smooth, heavy-boned pig, visit or write
WILLIAM REED, - ROSE HILL, IOWA.

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

POLAND CHINA SWINE.

COOPER'S SPECIAL 30-DAY BOAR SALE

WE have over **100 head of boar pigs of spring farrow.** We have 25 sows to begin to farrow in 2 weeks. We must have room for them. Hence, for 30 days we are going to sell these boars at prices they will bring on the market next fall, and they will be worth $40 to $100 each as breeders at that time. They are all immunized. We guarantee safe delivery and record them at

25 DOLLARS EACH

They are sired by Big Expansion (the 800-lb. son of the noted Dorr's Expansion), Big Bone 2nd (weighing 900 actual pounds, a son of Big Bone), Chief Leader (weighing over 500 lbs. at 14 months old), and Ideal Chief, and other noted boars. **The dams are sows weighing from 500-lb. yearlings up to sows of over 800 lbs.** If you are in the market for the biggest blood lines, from big sires and dams, send your check, tell us the kind of pig you want and we will send him or return your money. You will not buy such boars, such breeding, at the price again this year. Buy your boar now and save 20 to 50 dollars on him.

W. H. COOPER - - - - - - - - - HEDRICK, IOWA.

BIG BONE 2d 161497

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months, **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for July and August delivery, or for orders booked during July, or while they last. Must be bought during this month to get special price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ex and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

Faulkner's Famous Spotted Polands

"Are Leaders of Their Kind."

150 May and June pigs now ready to ship. The special price of $35 single, either sex; $65 pair, no akin; or $90 trio, no akin, will sell them all in the next thirty days. Start right with the kind of our forefathers. Mail your check with first letter. Everything registered.

HOMER L. FAULKNER - Owner Highview Breeding Farm - JAMESPORT, MO.

LAWSON'S SENSATIONAL BIG POLAND CHINA BARGAINS

THE home of the noted breeding boar, **Long King's Equal** (weight 965 lbs. in breeding condition, weighed in the presence of forty breeders). Sows bred to him and **A Wonder's Jumbo** for fall litters. **150 Choice Spring Pigs** that I am now offering at private treaty. Will not hold fall sale and will sell these out privately at less than half the money they would bring in a sale. Now is the time to get your bargain while the good ones are here. Write me at once for description and prices and mention Homestead.

JOHN B. LAWSON - - - - CLARINDA, IOWA

AUGUST GORDER'S POLAND CHINAS

A FEW choice fall boars sired by Teddy by the champion, Big Mischief. A nice crop of pigs sired by Futurity Jack and Matchless Expansion. The sow herd is by such sires as the 1,000-lb. Centennial, Colossus, Big Victor and other noted big boars. Address today and mention The Homestead.

AUGUST GORDER, PLATTSMOUTH, NEB.

BAIRD'S MAMMOTH POLAND CHINAS

THE great sire Columbus, without doubt the greatest big boar in existence, is in service. Sows of mammoth build and of the richest breeding make up the herd. We would like to hear from you if interested in extra good ones. Mention The Homestead and address **R. B. BAIRD, Central City, Neb.**

BIG HERCULES

ONE of the very biggest of all the extra big ones is at the head of our Poland China herd. In our Oct. 23rd sale we will offer a few sows either bred or with breeding privilege to this boar. We have an extra select line of spring boars that we will offer at that time. They are by the great Gold Medal. Let us tell you of these big Polands.

J. T. R. NASH & SON - - - - - - MINDEN, NEBRASKA

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

J. D. Gates & Sons, Ravenwood, Mo.

CHOICE SOWS BRED TO LONG HARVE

HIGH-class Poland China sows, mostly matured and known producers, are for sale and they are bred for fall litters to the great son of Big Tom, Long Harve. These sows are all extra high-class and will make good as brood sows. Address

C. W. HUTCHINS - - - - - - WEEPING WATER, CASS COUNTY, NEBRASKA

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

BIG-TYPE POLAND BOARS

20 FALL BOARS sired by the 1,000 pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. Mention The Homestead when writing.

E. W. KREISCHER, MT. VERNON, IOWA

Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 300 to 325 pounds. I have spring pigs weighing 100 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment. The fall boars are vaccinated.

JOHN I. DRIPPS - - SPRINGVILLE, IA.

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to F.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

L. S. Fisher & Son, R. 1, Edgewood Iowa.

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

LINE BRED EXPANSION BOARS

SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address

C. B. Kneer, Stromsburg, Nebraska.

RETURNER WONDER FOR SALE

AN extra big yearling Poland boar, best breeding, good individual. Address

PERRY A. SNYDER - CARLETON, NEB.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

HEISEL'S BIG-TYPE POLAND CHINAS

I HAVE 9 extra good Sept. and Oct. boars sired by Ex's Wonder by Big Ex and a fine lot of spring pigs. I have for sale 15 sows, due to farrow in Aug. and Sept. Will sell 2 two-year-old show sows good enough to win. Best of breeding. Best of individuals with size, bone and quality. Write me, mentioning this paper.

J. B. HEISEL - - GRINNELL, IOWA

BIG-TYPE POLANDS

OF the thick, smooth, heavy-boned kind. Fall and spring boars and gilts sired by Dale Expansion 190135. Also choice sows bred to him for fall litters.

F. E. JACKSON, HURLEY, SO. DAKOTA.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Poland China Herd Boar

BY BIG JONES, two years, also two fall boars and some spring pigs. Fair prices.

O. J. SATRE - - - - JEWELL, IOWA

WAYSIDE POLAND CHINA Choice fall boars and open gilts big-boned, lengthy ones. Also spring pigs. Prices $20 to $40. E. J. Augspurger, Pulaski, Iowa.

CHESTER WHITE SWINE.

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent fall boars, some choice herd headers. Also 50 good spring boars. Write me if you want one and mention Iowa Homestead. Address

JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.

ALDEN ANDERSON - - - - - - ELLSWORTH, IOWA

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,

W. H. DUNBAR, JEFFERSON, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address

AMOS TURNER - WILBUR, NEB.

O. I. C. and Chester White boars, gilts and bred sows; stock mated no kin. Young herds a specialty. Prolific, large kind. Pedigrees furnished free. Fred Ruebush, Sciota, Illinois.

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

CHESTER WHITE BOARS FOR SALE

I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

Orme's Prize-Winning Chester Whites I am offering 4 fall boars, 10 fall sows, $25 ea. A.C.Orme, Nodaway, Ia.

CHESTER WHITE SOWS

TEN good fall sows, bred for August farrow, at low prices for quick sale. They trace to Lewis R., Keep On and other sires of show-yard note, and are bred to Iowa Pride, a Hoover bred hog. They are right in every way and in perfect health and thrift. Write or come and see them.

G. O. SATRE - - - - JEWELL, IOWA

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale. We are pioneer breeders of Nebraska. Write today.

J. W. COX & SON - ARAPAHOE, NEB.

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale

Samuel Johns, Sec. A., Wilmington, Ohio

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

HEREFORD CATTLE.

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead, **N. D. MYSENBURG, David City, Neb.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address

GEORGE D. HARRAH, NEWTON, IOWA.

Hereford Cattle Duroc Jersey Hogs

STOCK for sale of both breeds at all times. Write or come and see me. Address

A. F. HAGER, AVOCA, IOWA.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

SHORT-HORN CATTLE.

SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH - - - - - NEWTON, IOWA

Choice Short-horn Bulls for Sale

WE are offering some very choice young Scotch and Scotch-topped bulls for sale. Some choice herd headers among the bunch. Write or come and see us.
HELD BROS. - - - - Mondamin Farm - - - HINTON, IOWA

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

Choice Scotch Bulls FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm**. Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
C. A. SAUNDERS, - MANILLA, IOWA

Cedar Hill Short-horns

SOME excellent young bulls, sired by the 2,200 lb. Secret Hero, also a pure Scotch tried bull. Prices low for quality offered. We maintain milk records on many of our cows. Mention The Homestead.
IRVIN E. WILSON, BELVIDERE, NEB.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.
F. H. EHLERS - - TAMA, IOWA

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood red, for sale. Address
J. E. Barr, R. F. D. 4, Davenport, Iowa.

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

SCOTCH HEIFERS FOR SALE

WILDWOOD FARM offers 2 Scotch heifers bred to Marshall Gold and several yearlings unbred. Also 4 high-class young bulls. Address
W. W. VAUGHN - - MARION, IOWA.

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Bampton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
W. M. MYERS - - BEAMAN, IOWA.

SHORT-HORN BULLS

PIKE TIMBER STOCK FARM.
ONE pure Scotch Rosemary 9 months old; two extra good red Scotch-topped bulls 12 and 13 months old.
DAVENPORT & MACK, BELMOND, IA.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE MT. VERNON, IOWA.

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DOUBLE STANDARD SHORT-HORNS.
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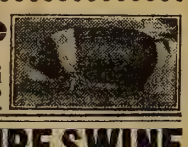
HAMPSHIRE SWINE.

Sunny Slope Hampshire Swine



200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.
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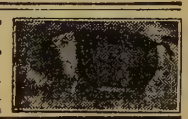
I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE



HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Polled heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

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300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
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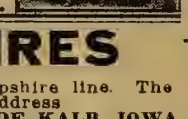
R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine



WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

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WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
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VALLEY View Hampshires. One large 2-year-old boar for sale. Quality and quantity. Breeding & belting first class. Fred Wheeler, St. Charles, Ia.

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A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
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Hampshires-- Bred sows $35. Spring pigs with pedigrees $12 to $20 per pair. Galloway Farms, Waterloo, Ia.

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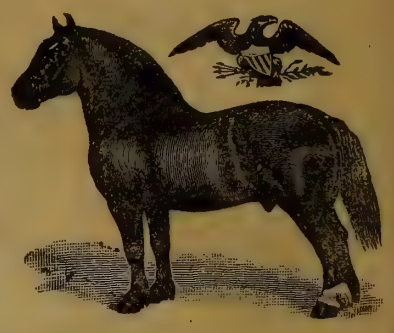
Special Sale of Percheron and Belgian Stallions For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

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10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
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NEW Importation Arrived April 23rd, and is now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.
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Eight miles west of Cedar Rapids.

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Ever notice average farmers who keep their own stallions raise more colts from same number of mares and make more horse money? **A Big Percheron** from my 13 young Reg. studs at breeder's prices would make you money.
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BUY THREE IN ONE
See the mares in pasture or infield work.
See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Secy.**
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CLOSING-OUT SALE—August 20th. Percheron and French Draft horses. Catalogs sent on request after August 1st. W. J. Cunningham, R. F. D. No. 5, box 45, Pittsfield, Illinois.

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700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
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MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R
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IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

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LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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The Iowa Homestead

Reading Room
Agricultural Dept.
Urbana Ill.
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VOL. LVIII. NO. 32 DES MOINES, IOWA, AUGUST 7, 1913. WHOLE NO. 2913

Looking Backward

The following is a sample of thousands of letters received by us during the year. We are proud of them all. Read this one and you will see why our customers have faith and confidence in their dealings with us. Here is the letter:

"May I extend the greetings of the season? I have been with you since 1878. Thirty-four years I have patronized your house. As a boy I sent you small orders. It would be intetesting to look over all the orders I have mailed to you. Boyish things, the trimmings of a young man, my wife's engagement ring, the furnishings of a little home, the toys and playthings for babies and children, boys' and girls' books, tools, farm implements, groceries, drugs, clothing. A few years ago my home was destroyed by fire. The new one was equipped from your great store. The enclosed order is for a few presents for some of my children. If I had not received good treatment at your hands would I have remained so long a customer?"

(Name and address furnished on application.)

Looking Forward

Whatever we have done in the past for our customer is only a foretaste of future service. The best evidence of this will be found in our new catalogue of 1000 pages.

This immense volume is filled from cover to cover with over a hundred thousand real bargains—bargains in foods, bargains in furniture, clothing, drugs, farm implements—every requirement of man, woman or child.

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, AUGUST 7, 1913.

The Lesson Of The Walnut Trees

Possibilities of Profit and Beauty Overlooked by All Too Many Farmers—The Story of How a Walnut Grove Grew and Yielded Good Returns—By Isaac Motes.

LAST autumn I spent several weeks on the old homestead where I grew up, and among the many things I had impressed upon my mind was the value and the possibilities of a grove of nut trees.

When I was a very small boy an older brother planted about a dozen walnuts one spring in the corners of the yard fence, close to the chicken house, where the soil was rich. Some of them never sprouted, or died after coming up, but six grew and thrived, and became fine, graceful young trees. Still, I do not think anyone attached much importance to the six young trees. They were planted as a sort of whim, and were allowed to grow simply because they were in the fence corners, out of the way. So as I grew to manhood the walnut trees grew also. They were rather late about beginning to bear, for if I remember correctly it was twelve or fourteen years before they began to bear, and then in scant quantity.

When I became of age I got away from home, out into the world, hustling for myself, and didn't have many opportunities to note the growth and the bearing qualities of the six walnut trees. My parents had put the farm into the hands of an older brother and moved to town, so my visits thereafter were short, and generally at a time when the bearing qualities of the trees didn't show up to good advantage—usually at Christmas time, after the walnuts had been gathered and parceled out among the families of several of my brothers. I saw, however, that the trees were fine looking, well proportioned and still growing in height and spreading out.

But last November I was back on the old homestead for some weeks. All the leaves had just fallen off the walnut trees, and most of the walnuts were lying on the ground under the trees, turning from yellow to black, and never did I see such piles of big golden nuts. Some of the trees were fully three feet through, the tops symmetrical, well proportioned and very tall for black walnut trees—much larger than any walnut trees I had ever seen growing wild in the woods. The space under each tree was piled nearly two feet thick with walnuts, fully a car load from those six trees, it seemed to me, and my brother told me they had fifteen or twenty bushels still on hand from the previous season.

I could not help thinking that it would have been almost as easy to plant an acre of the young walnut trees as that half dozen, and if one acre why not ten, twenty, or a hundred? And if walnuts, why not soft-shelled pecans, or alternating rows of walnuts and pecans? Had such a grove been set out at the time those six walnut trees were planted, that land would now be worth $1,000 an acre, and the trees would yield a princely income for generations.

So I do not think the average farmer realizes the possibilities in a grove of nut trees. In clearing up new ground where a number of nut trees occur in a cluster, whether walnuts, hickory, pecans or chestnuts, they should be allowed to stand, even if they mar, to some extent, the symmetry of the field. A grove of forty or fifty fine walnut, hickory or pecan trees covering an acre of ground will be worth more to a farmer than that acre in corn or wheat. And the beauty, luxuriance and fruitfulness of the trees will be greatly increased by a little cultivation, even if it be nothing more than digging up the ground a little around each tree with a pick. A dozen or so small holes four or five inches deep, dug under each tree will catch and retain a great deal of moisture, for trees in the woods must suffer for moisture during dry summers, when the ground is so hard that most of the rain that falls runs off quickly, before it has time to be absorbed. Do this in the spring and summer, and you will notice a marked difference in the luxuriance of your trees. Considering how hard the ground is in the woods, it is surprising that trees grow so luxuriantly as they do, and were it not that their leaves absorb so much moisture from the air a great many more of them would doubtless die.

Another means of stimulating the growth of trees is to keep the dead leaves on the ground in summer. By this means the ground is screened from the heat, and the moisture doesn't dry out. If it is necessary at nut-gathering time to rake the leaves from under the trees, in order to get all the nuts, they should be raked back afterwards, or if small limbs of trees or bushes be placed under the trees this will catch the leaves as they are blown about by the winter wind. In the absence of leaves some worthless straw placed under each tree will answer the same purpose.

Also it should be remembered that a grove will do better if all the trees are about the same height. Then all will get their share of the sun's rays. Start a grove of trees of the same height and they will remain of uniform height, because they all have an equal chance at the light and heat from the sun, which will attract and draw them upward, and it will be a race, as it were, between the trees to see which can grow the tallest and straightest.

If your natural grove contains trees of widely different heights it will pay you to cut down any large, tall tree which is shading numbers of young, graceful trees near it. When you get your trees down to a uniform height they will all get into the sunlight and all grow tall, straight, long bodied and graceful. The small trees may be helped to grow by digging around them thoroughly, enabling the ground to catch and hold more moisture.

Remember that hickory trees vary greatly in the quality of the nuts they bear. Some are much better than others; larger, thinner shelled, more oily, and with larger chambers in which the kernels grow thick and round, making it almost as easy to extract the kernels as walnuts or pecans. Some of the large hickory nuts, grown in this section, are better than the small shagbarks, because larger, and because the chambers inside the nuts are very roomy, and the kernels thicker and easier to extract. By testing the nuts from each tree you will know which grow the best ones, and those which grow the poorer qualities can be marked for cutting down, to be sawed into timbers and sold to makers of different kinds of handles for tools, and to other manufacturers. Open spaces in your grove can be replanted with the best grade of nuts, and in time you will have a body of timber beautiful and ornamental, as well as a source of large income, both from the timber and the nuts marketed.

But, of course, black walnuts are better than hickory nuts, and the wood is also more valuable, so if you have some old, badly run down and impoverished field,

FROM THE HOME GROVE, FOR THE ENJOYMENT OF THE WHOLE FAMILY.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

COME TO THE IOWA STATE FAIR.

The fifty-ninth Iowa State Fair opens at Des Moines, Wednesday, August 20th, and closes Thursday, August 28th. Prospective patrons will do well to note that the fair opens a day earlier this year than usual. Those who have been in the habit of coming to Des Moines Sunday or Monday, to spend the entire week will do well to come this year on Wednesday or Thursday, as otherwise they will miss half the fair, the dismantling and shipping of exhibits to Hamline and elsewhere taking place on Thursday of the second week this year, instead of two days later (Saturday) as heretofore.

The Iowa Homestead wishes to urge upon all Iowa farmers the great advisability of attending this year's fair and coming early. There is every prospect of a bountiful crop. Money is plentiful in Iowa, notwithstanding the stringency elsewhere. Iowa farmers have worked hard, they are entitled to a rest. Every member of the farm household will profit by a fair. Des Moines is in better condition to handle the crowds this year than ever before.

The Iowa State Fair is an institution of learning, the same as the state college of agriculture or the state university. Money spent in attending it brings its returns just as surely, and often more quickly, than money spent in sending the farm boy or girl to college. In addition to all the educational features the state fair offers that innocent pleasure and amusement without which farm life is apt to become monotonous and irksome to young and old.

The Homestead takes this occasion to extend its annual invitation to all patrons and friends to make their headquarters at the down-town publishing plant or the fair ground pavilion. The Homestead's building is located on Locust street, only two blocks from the postoffice and on the direct route to the state house. It is at the disposal of all our friends and readers, to be used as a meeting place or for any other purpose desired. Since the last state fair the Homestead building has been visited by a disastrous fire. The plant is now entirely rebuilt and equipped with the latest and finest machinery. Our friends are cordially invited to inspect the plant and see the wheels in motion turning out more than a million farm papers every month of the year. The Homestead's pavilion on the fair grounds is on the main thoroughfare, adjacent to the grand stand, to the stock pavilion and to the chief exposition buildings. Parcels, wraps and lunch boxes may be checked there, without a cent of cost; free ice water is always available and a courteous Homestead attendant is always on hand ready to serve the needs of visitors. Nothing will give the Homestead and all its working force greater pleasure than to have Iowa farmers make themselves at home in the Homestead publishing plant or pavilion.

The 1913 Iowa State Fair promises to be bigger and better than ever before. We therefore urge upon every Iowa farmer that he attend, that he come early, that he stay late and that he bring every member of the farm household with him. State fair comes only once a year. It is a treat to which every member of the family is entitled. Money spent for railroad fare and necessary expenses is well invested, the fair having an educational value, in addition to furnishing much needed amusement for every member of the farm household.

SUMMER FOODS.

Nothing is more important, in hot weather, than the food question. With the doctor many miles distant and not available under a couple of hours or more at best, wisdom and prudence dictate caution. Foods which may be eaten with impunity at other seasons of the year are apt to disarrange the human system when the temperature is hovering around the century mark.

The question of the water supply is of prime importance. Once that is settled the food question comes next. Typhoid germs lurk in the drinking water. The oft repeated advice to boil the water is heard so frequently that it sometimes loses its force by reiteration. The advice should be heeded, however. All too many farms are dependent upon wells which drain foul surface water. To be on the safe side, destroy the germs by boiling the water. It may save a large doctor's bill and even the life of some loved one.

There are certain fruits which play an important part in the summertime in maintaining bodily health. We are indebted to a book entitled "Health and Business" for the following information on fruits as a summer food:

Fruits are valuable adjuncts to the daily menu, especially when cooked. Of raw fruits, oranges, grapes, bananas, melons and lemons are the best. Raw apples are very well digested by some folks, but by others are quite the reverse. The old proverb, that "an apple is gold when eaten in the morning, silver in the afternoon, and lead at night," has more than a modicum of truth in it; but a baked apple is one of the most convenient and effective laxatives we know.

Rhubarb has a peculiar effect on the stomachs of some people, causing indigestion and a violent eruption of nettle rash to result. It also seems to provoke an attack of rheumatism in persons subject to that complaint; it contains a powerful acid which probably produces this effect, but to those fortunates who feel no ill effect after taking rhubarb it is a useful spring medicine as well as a palatable dish.

Many of the most familiar fruits and vegetables have distinct medicinal values. The proper attention to the things eaten, therefore, will make them serve both the purposes of food and medicine. The following are some of the articles of diet which are known to have medicinal qualities:

Apples, carrots and Brazil nuts are excellent for sufferers from constipation.

Asparagus stimulates the kidneys.

Bananas are beneficial to sufferers from chest complaints.

Beets are fattening and good for people who want to put on flesh. So are potatoes.

Celery and onions are nerve tonics.

Cranberries are a stringent and correct the liver when it is suffering from inaction caused by overeating.

Dates are nourishing and also prevent constipation.

Grape juice is a laxative, but the skin and seeds are likely to cause constipation.

Honey is a good substitute for cod liver oil.

Lemon juice is excellent as a gargle for sore throat.

Lettuce has a soothing effect on the nerves and is excellent for sufferers from insomnia.

Onions are conducive to sleep. They quiet the nerves and are good for colds.

Parsnips, like sarsaparilla, are good for the blood and to tone up the system.

Tomatoes are good for a torpid liver, but they should be avoided by gouty people.

Water cress is an excellent blood purifier.

There is more danger these hot days of overeating than of not getting sufficient nourishment. The loss of a few pounds in weight in the summer time is far preferable to the danger of contracting a disease through eating foods which are unseasonable, which are too rich for the summer condition of the blood or which are absolute poison to the human body in its summer condition.

WHY WINTER WHEAT SHOULD BE DRILLED IN.

Winter wheat is rapidly increasing in popularity and growing in the esteem of corn-belt farmers. The crop in most sections has escaped winter killing during the last two years and those who have used proper methods of preparing the soil and sensible methods of seeding find that it is possibly one of the most profitable cereals that can be grown. We believe that the area seeded this fall will exceed in acreage the 1913 crop.

The old-time winter wheat grower needs no instructions about the importance of seeding the crop with a drill, rather than to sow it broadcast. While it may be difficult to offer a satisfactory explanation as to why drilled wheat stands the winter better than wheat sown broadcast, yet in a general way it must be due to two or three factors. In the first place, drilled seed is uniformly covered and this in turn means that the crop develops a uniform root system. In the second place the leaves from drilled wheat make their appearance below the surface level. In other words they grow in little trenches, is it were, and the ridges between the wheat rows seem to afford a form of protection that is invaluable. Possibly the greatest benefit that comes from having the plant develop in depressions rather than on the level is due to the fact that when freezing and thawing take place in the late winter or early spring the soil tends to fall down into the depressions and to keep the heaved rootlets well imbedded. In the case of broadcast grain it is not uncommon to find the crop entirely heaved out largely as the result of the freezing and thawing process and to be thrown high and dry on the surface. This seldom takes place with drilled grain unless the soil is unduly wet.

The value of the drill is sometimes questioned when used for spring seeding purposes but no man who has had practical experience in the sowing of winter wheat would risk losing the value of his time and labor as well as the price of his seed by sowing on the old-fashioned broadcast plan.

LOWER EXPRESS RATES.

The order of the Interstate Commerce Commission materially reducing express rates is a big victory for the farmer and stockman who sends his produce to market by express. The victory is probably greater for the Iowa hogman than the Iowa grain farmer, because of more frequent express shipments. It is the first gun in a big campaign, however, to make the express companies reduce all their rates and give the shipper the concessions which he has long been denied.

The order of the commission causes the new rates to go into effect October 15th. The extent of the reductions ordered will be seen from the following typical examples: A five-pound package from Chicago to Des Moines by express, under the old rate, cost 50 cents; under the new rate it will be only 28 cents, but one cent more than by parcel post. A ten-pound package from Chicago to Des Moines by express, under the old rate, was sixty cents; under the new rate it will be only thirty-six cents, which is sixteen cents less than by parcel post. The hundred-pound rate from Chicago to Atlanta, Georgia, has been $3.75; it is reduced to $2.60. The hundred-pound rate from Chicago to Pittsburgh has been $2.00; it is reduced to $1.70. The hundred-pound rate from Chicago to Spokane, Washington, has been $10.00; it is reduced to $7.95. And so on throughout the entire list, the commission inaugurating a series of zones for express somewhat similar to those in effect for the parcel post.

The Iowa farmer who has a hog to ship to market will find himself saved a lot by the new rates. The Iowa farmer who ships small produce to the nearby town or even the faraway city will find himself able to make this shipment much cheaper. The new rate will mean much to the farmer and will help cut down the cost of living for the city man.

ADVICE ON FILLING THE SILO.

Thousands of our readers will in a few weeks face the task of silo filling. Where there is good equipment at hand it is not an ordeal to be dreaded though those who must fill their silo for the first time face the situation with some degree of trepidation. They have yet to work out the details of their task and acquire by practical experience information and knowledge that at the present time is only a matter of theory.

In order to help those who are inexperienced, as well as to give aid even to the old timer in the business, we propose to inaugurate a contest among those who have first-hand information on the subject. We will give a $10 cash prize to the individual who sends in the best contribution dealing with the details of silo filling. A $5.00 cash prize will be given for the second best contribution and all those whose articles are used will be appropriately awarded.

It is actual experience that we desire. Simply give in detail the plan that you have followed in filling your own silo. For instance, do you cut the corn crop by hand or with the binder? Is the crop cut a day or two in advance of putting it in the silo or is it your practice to use the absolutely green corn? How many men are required to keep an ensilage cutter in operation constantly and how are these men distributed at the various tasks? Do you tramp the ensilage and if so how many men do you keep at that work? If water is used in wetting the ensilage give your plan of applying it.

These are a few of the items that should be taken up by those who prepare contributions, but there are many small details in addition that are of vital interest and importance to those of our readers who own silos.

We are going to suggest that this matter be attended to at once because the dry weather has greatly hastened the maturity of the corn in some localities and the silo filling season will be on before we are aware of it.

NO IOWA FAIR RATES.

Iowa railroads have been successful in their fight to set aside the law passed by the last legislature ordering reduced rates for the Iowa State Fair. As the result of the decision of the federal court, handed down in Council Bluffs last Saturday, the rates to Des Moines for this year's fair will be the straight two cents a mile for the round trip, the same as they were in 1912. The Iowa law compelled the roads to grant a reduced rate of one cent and a half a mile for the round trip, but the railroad lawyers argued that this was discriminatory, inasmuch as it singled out the fair as the only recipient of the favor. The railroads are far from showing that farsighted policy which is necessary to popularize them with the general traveling and shipping public and upon which ultimate success depends. Secretary Corey fears that the court's decision will cut down the attendance 25,000. Even with the 1912 rates in effect, however, the 1913 fair is going to be so much bigger and better than ever that we urge all our friends and patrons to attend.

In Cement Floors and FOUNDATIONS Use ROSS IRON Studding SOCKETS

The "100-Year" Post Support

Simply tap sockets down into soft cement. No sills to rot. No toe-nailing to rust. Fits *any* upright. For Cribs, Granaries, Barns, Sheds, Garages, etc. Write today for FREE Booklet. Learn how to make upright supports *everlasting*. Get book—"How to Build Cement Floors and Foundations."

G. M. ROSS & CO.
184 Broad Street Grinnell, Iowa

GOING TO THE STATE FAIR?

Be sure to see our wonderfully complete and interesting Exhibit in the northwest corner of Machinery Hall. Better write Today for our Free Booklets.

G. M. ROSS & CO.
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BUTLER STEEL Grain Bin

Corrugated. Can't Cave In. Rat-Proof. Fire-Proof.

Can be used for store house. Capacity increased by additional sections. Keeps grain perfectly. Large door and removable shoveling board. Ask for booklet showing letters from satisfied users.

BUTLER MANUFACTURING CO.
1210 W. Tenth Street, Kansas City, Mo.

GUARANTEED ALFALFA SEED

Absolutely Pure and free of weeds—vigorous and hardy—endorsed by Experimental Stations and Alfalfa Authorities everywhere; *sold on approval*. Alfalfa will grow on your land. Write for Free sample.

HENRY FIELD SEED CO.,
Box 25 Shenandoah, Iowa.

THE COUNTRY CHURCH.

The country church continues to come in for widespread discussion. Country life conferences find it their most fruitful subject, for it is coming to be generally realized that the rural church is one of the biggest factors in the permanent improvement of living conditions. Surveys have been taken which prove that poor soil invariably means poorly attended country churches, while good farm neighborhoods almost invariably mean large, flourishing, well-attended and active churches.

The literature of the country church is becoming more and more extensive. For instance, the Country Life conference held for two weeks in July, at the Iowa State College of Agriculture, discussed the church and its relation to farm prosperity from every angle and viewpoint. The discussion will be published in book form and given wide circulation. A strong and vital book on the subject has been issued by Charles Otis Gill and Gifford Pinchot. Theodore Roosevelt reviews this book at length in a recent issue of the The Outlook and helps along in the campaign to make the church still more effective in raising the standards of rural life.

The remedies suggested by Doctor Gill and Mr. Pinchot for the run-down church, which has outlived its usefulness, are five in number.

First: The improvement of country life generally. The authors rightly point out that "the country church cannot hope for prosperity apart from the improvement of country life. Whatever tends to produce a lower standard of living in the country necessarily and immediately affects the country church. If there were no other and weightier reasons, as a mere matter of self-preservation the church could not afford to hold itself aloof from the struggle to secure the conditions of successful life upon the land. It cannot hold itself free from responsibility for the continuance of bad economic conditions and expect to thrive in the midst of them."

Second: The adoption of a program of social service for the churches, not, as Colonel Roosevelt points out in his article, "the abandonment of the spiritual efforts in which they are now engaged, but the addition thereto of a definite effort to help the community."

Third: Church co-operation. Not necessarily church merger, but a joining of hands in mutual endeavor for the general good. As the authors of the book under consideration well say:

> There is but one solution for the problem of overchurching which seems to offer reasonable hope in the two counties concerned. This lies along the line, not of doctrinal union, but of common effort in the cause of the common welfare. Where people work together for a better community, they are the more likely to work together for a better church. Divisions in the churches may often be bridged over by setting the members of hostile groups working together for the common good.

Fourth: A country minister in touch with the vital interests of the country people. Once more we quote from the writing of Dr. Gill and Mr. Pinchot:

> The country ministry in these two counties is weak because it has little to do with the vital needs of the people. As a rule it is out of touch with the essential problems which control the welfare not only of country life, but of the church itself. The essential fact is that the minister is often aloof from the real concerns of the people. Too often he has no intelligent appreciation of whole fields of human interests that are rightly of prime importance to his parishioners. The country minister needs special training for work in the country.

Fifth: Country-wide and then state-wide organized among the churches for the promotion of the general social welfare. The day has passed when each church, like each individual, can go its separate way without heeding or considering any other, taking help or loaning a helping hand, for the general good. Organization will result in a compact, forceful body which can hardly fail to accomplish big results.

The more this question of the country church and its increased usefulness is studied the bigger it appears and the greater loom the possibilities. Every article written on the subject means a quickening of interest somewhere, while the helpful suggestions given by such men as Doctor Gill, Colonel Roosevelt and Mr. Pinchot can hardly fail to go a long ways toward making the church take on new life and become more and more a factor in the general uplift and the individual prosperity.

THE LESSON OF THE WALNUT TREES.

(Continued from page 3.)

or some corner of a field containing an acre or more, you cannot find a better way to improve it than by setting it out in a selected quality of walnuts, especially if you have some trees already growing there. It is remarkable what run-down old fields will grow fine walnut trees, and with no cultivation, for the roots strike deep into the earth and draw fertility and nourishment from soils and clays which the roots of cultivated crops never reach.

An acre of ground should support 150 or 200 walnut trees if they are all about the same size. And it should be remembered that the quality of walnuts from different trees also vary, so if you have trees already growing you should carefully test the nuts from each tree and plant only those of the best quality and any tree that bears a poor quality of nuts should be cut down and sold to some company making gun stocks or fine furniture, and young trees of better quality planted in its place. Walnut or hickory wood being so heavy, it requires but a few trees to make a car load.

Nuts for planting, whether walnuts, hickory nuts or pecans, should be of the new crop, should be kept in a cool, moist atmosphere during the winter, or laid on the ground under a thick, covering of leaves or straw, and planted in the spring. A nut which has been kept in the house for a year or so, and become very dry and oily, can scarcely ever be made to sprout.

Each week adds a number to the water-hauling list. Some are now having to haul for every purpose, house use as well as for stock. This adds greatly to the regular work, in fact on some farms it requires almost the entire time of a man and team. Water hauling is the doing of something for nothing.

Some folks think the country school is better and some not as good as it was twenty-five years ago. A good teacher is born, not made by grilling study. One must have natural talent for the work, and those who have are teaching as good schools as were taught twenty-five years ago, if not better.

Ask your neighbor to subscribe for The Homestead.

Rural Life Conference

By Carl N. Kennedy.

THE rural life conference held recently at the Iowa Agricultural College was one of unusual merit, if judged from the enthusiasm aroused. There was not a minister or layman that attended but what went home with the spirit of "do something" for his church and his community. Every man present pledged himself to do some special task for the betterment of his rural community during the following year. "I'm going to preach for better country schools," said one rural minister. "I'm going to promote better agriculture in one part of my parish," said another. "I'm going to try to set up better standards of living in my neighborhood," declared another.

Nearly eighty were enrolled in this year's conference of which sixty were ministers. As these men undertake to fulfil the pledge that they made they will be working sincerely for the rural betterment in some fifty or sixty different communities. Most of these are in Iowa, but some are from other states. This is a decided gain in attendance over former years. The first conference, two years ago, brought together a handful of men for only two days. Last year's conference lasted a week and the attendance was still small. One of the notable facts was that several denominations, notably the Presbyterian and the Congregational gave aid to their ministers to attend.

Numerous speakers appeared to discuss rural questions, but the most important work was carried on by Rev. Clair S. Adams, of Illinois, leader, and Dr. T. N. Carver, of Harvard University, lecturer on rural economics.

From Mr. Adams the conference got the lesson that the work of the church must not be kept within four walls, but extended outward in every direction to touch the whole life of the people. "We had it hammered into us that it is our job to save the whole community and not merely the souls of a few individuals in it," declared one minister. The spirit that Mr. Adams tried to impress upon the ministers was the fact that to do a great amount of good in a country parish, the minister must "stick on the job." His lectures for the two weeks were full of ideas gleaned from practical knowledge of just how to work out some of the different problems that confront every country church.

Dr. Carver gave splendid lectures that rural ministers and others need to think about in regard to the economic and social problems of rural communities. He impressed them deeply with the conviction that "The solution of the rural problem lies with the rural minister who is helping the rural people to form their likes and dislikes." Dr. Carver does not believe in intensive farming such as is practiced in many parts of Europe. "A large product per acre means a small product per man. A lower product per man means a lower standard of living. We may have to learn how to economize land in this country, but it must be done so that labor is not cheapened. The American has solved the problem of the economy of labor by the use of labor-saving devices better than any farmer on the face of the earth and he will solve the problem of high-priced lands. Let us avoid as a plague any wholesale importation of foreign labor for this means a reduction in the amount of agricultural product per man.

In the resolutions of the ministers, adopted on adjournment, they declared that they had been brought into a new understanding of the rural problem and the importance of the church in solving it. They acknowledged a new inspiration for their work and expressed a new understanding of its great importance and dignity.

Premium Seed Wheat

FIRST at Iowa State Fair last year from a field that made 54 bu. per acre and with a 44 bu. yield this year, this strain of Turkey Red stands alone. Recleaned seed in bags f. o. b. Ames at $1.25 per bu. while it lasts. Send check or draft with order. Reference any bank in Ames.
L. J. BAIRD - - AMES, IOWA.

ALFALFA $7.50 Per bu.
Best Non-Irrigated Seed—99.6% Pure
95% germination $9.75. Absolutely guaranteed. Northern grown, extremely hardy. No seed better. Have Turkestan alfalfa, grass seeds all kinds. Ask for our Latest 60 p. Book on growing alfalfa, Catalog and Samples. All Sent Free. We can save you money. Write today.
A. A. BERRY SEED CO., Box 403 CLARINDA, IOWA

NO. 42 TURKEY RED SEED WHEET

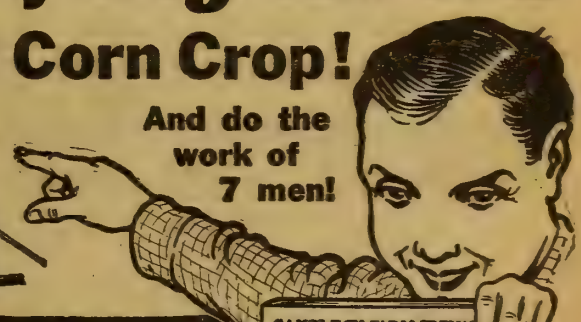
ABSOLUTELY the heaviest yielding strain of Turkey Red wheat known. Fine berries of good size and color. This variety our specialty. Write for illustrated booklet.
FRANK J. RIST HUMBOLDT, NEB.

TURKEY RED WINTER WHEAT SEED

SUREST cropper, highest yielder, none better for quality. Try a patch this fall from our seed. We hold the highest record in show ring for Iowa. Pure, recleaned, plump seed, best grain sacks free at $1.10 per bushel. Ask for sample.
JNO. JUSTICE - - - ANKENY, IOWA

Now any *Boy* can Crib Your Corn Crop!

And do the work of 7 men!



Sandwich Eternal Cypress Farm Elevator Rids Farm Life of Drudgery

Gone are the days when farmers looked forward to corn husking with **dread**—days when they hunted high and low for **help**—days of **back-breaking labor** shoveling corn into cribs—nights of soreness and pain. How **hard** to get men—how **costly** too! And how they grumbled at **scooping**—how they ate up the **profits** and wore out the women folks keeping them fed.

All This Changed by the Sandwich

A few years ago people would have scoffed at the idea that one boy could crib as much as 7 men.

But nowadays near 15,000 progressive corn raisers own Sandwich Farm Elevators and prove it! See this—

"My 11-year old boy runs my Sandwich Elevator as well as I can," writes John F. Heiken, Palmyra, Ill. "My children husk nearly all my corn."

Pays Its Way—Works Like Lightning!

The Sandwich comes with Swivel Spout or overhead roof conveyor. And it puts your corn—your small grain—into the farthermost corners—lickety split!

"Unloaded 50 bu. in 4 minutes," writes I. E. Orendorf, Heyworth, Ill. Others crib 40 bu. in 2½ minutes, dead easy.

C. H. Keller of Marshall, Minn. writes:—"**Had my crop picked 1c a bu. less on account of my Elevator.**" Yes, huskers work **cheaper** where the Sandwich does the cribbing.

No Leg Breaking Platform

The Sandwich Wagon-Jack is overhead. "Works to perfection," says A. J. Anderson, Boone, Iowa. You drive right under—with even the **tallest** load. And it dumps it in the hopper in a jiffy. Then hitch on **any power**—horse or engine—and your corn pours into the crib like magic.

Cypress Body Outlasts Steel!

We make less money using the Cypress, "The Wood Eternal," but we make more **friends** and more **sales**. This is why it is called the **Everlasting** Sandwich and is fast crowding cheap pine, poplar and all-steel Elevators from the market.

Warning—60 Carloads Oversold

Late orders for sixty carloads of Elevators we could not supply last fall. They came from farmers who **waited**. They had to shovel. But they couldn't blame **us**. For we warned **them** early as we are **warning you now**. Few dealers ever order **enough** ahead to supply you all. You'll have to do **your own** ordering and do it **now**.

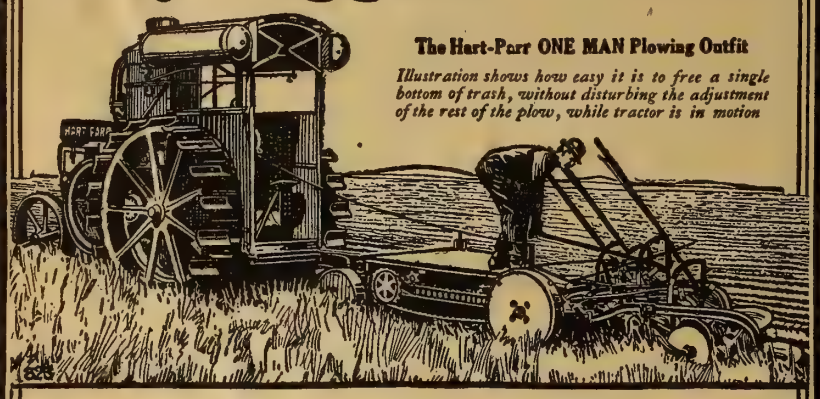
Get This Free Book—See the Sandwich Too!

Write us today for our brand new Elevator Catalog and the name of our nearest dealer who'll show you the Sandwich Elevator.

This book pictures the Sandwich Elevator and tells all about it. It gives you the inside facts on Elevator Construction, the things to beware of—the points to insist on. And it gives you the measurements of Cribs and Graneries—you'll want these if you ever build. Address without fail

SANDWICH MFG. CO., 170 B St., Sandwich, Ill. Makers of Everlasting Sandwich Corn Shellers, Hay Presses, Loaders and Rakes, and Feed Mills and Gasoline Engines.

Make Every Acre Pay Biggest Profits



The Hart-Parr ONE MAN Plowing Outfit

Illustration shows how easy it is to free a single bottom of trash, without disturbing the adjustment of the rest of the plow, while tractor is in motion

Deep, Early Fall Plowing

is the foundation of an ideal, mellow seed bed—one that is best for seed germination and growth. But early fall plowing that is deep enough to secure best results would ruin the sturdiest horses and prove a costly operation. Instead of risking your horses, do your fall plowing with a

HART-PARR -OIL TRACTOR-

and save time, labor and money. The small light tractor and "Self-Lift" plow shown in the illustration make an **Ideal One-Man Outfit** for farms of 100 to 320 acres. You operate both tractor and plow right from the engine platform. Easily plow 10 to 15 acres daily—6 to 8 inches deep—the work of 12 good horses. Work the outfit 24 hours daily, if necessary. It never tires or gets overheated.

Superior and Original Features of Design Found Only in the small, light Hart-Parr Tractor and Self Lift Plow.

Tractor—Lightest weight, yet great strength. Only 300 parts—others have 800 to 1500. Main frame is a strong, one-piece casting. Drive wheels with wonderful wave form lugs, are solid steel castings—not built up or pieced. Driver lugs give 31 percent greater surface contact than any other. Can be equipt with Hart-Parr "Hold Fast" extension lugs, the lugs with a bull dog grip in soft soil. Especially designed carburetor operates efficiently on cheapest **kerosene.**

Plow—33⅓ percent lighter than any other and has one-third less parts. Combined automatic and hand lift. To raise or lower bottoms, merely pull a rope attached to clutch lever. Any one bottom may be raised with hand lift attachment without disturbing adjustment of rest of plow. Spring beam coupler enables plows to skid around or over obstructions and prevents breakage.

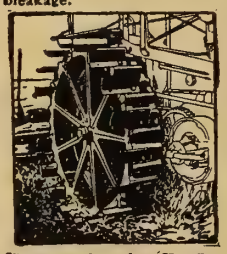


Illustration shows how Hart-Parr "Hold Fast" lugs grip the ground and pull out straight away without tearing up the soil.

Fall Plowing Means Bigger Profits

With this outfit, you can follow up harvesting and threshing without delay and kill injurious weeds, insects, grubs and bugs before they do any damage. You can turn up new plant life, conserve the rainfall and distribute your farm labor more evenly over entire year. When spring comes, your rush work is a simple task instead of a heavy round of hard work. Your plowing is done—you need only disc and seed and do it with this same tractor. And no matter how wet or backward the season, with your plowing out of the way, you can get your seed in several weeks earlier and give it a better start.

Power for All Farm Work

And remember—this Hart-Parr Tractor is more than a one purpose outfit. In addition to plowing, use it for discing, seeding, harrowing, harvesting, threshing and hauling; fill silos, shell corn, in fact, do all your traction and belt work with it.

We build a size for every farm, large or small. We can meet your power requirements.

Write today for catalog, special circulars and expert information on power farming costs.

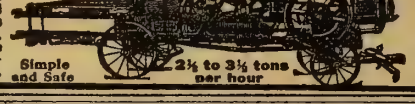
HART-PARR COMPANY
228 Lawler St. Charles City, Ia.

94

Sandwich (Chain Drive) Hay Press
Supplies Its Own Power

You too, can make $200 to $300 clear profit monthly! Farmers pay liberally to have their hay baled by this solid steel, big tonnage Sandwich that doesn't break down in the middle of a job—that turns out clean, slick, solid bales, rain or shine, one and two a minute.

It has hopper cooled Gas Engine mounted on same truck, 4, 6, 8 or 10-horse power—gear driven magneto—the most complete outfit in existence. The Sandwich beats all ordinary presses 2 to 8 tons daily in every working test. **25 tons are its every day job—often 30 to 40.** Full power delivered to Press by heavy **steel roller chain.** It does away with slipping, stretching belts. Simple time-tried self-feeder—**with big feed opening.**



Yes, the safest, surest, biggest money maker in the business! ***THIS FREE BOOK,*** "Tons Tell," the surprising story of tremendous profits scores are making with the Sandwich. Write us today for your copy by return mail. Ask for our special terms that let you start with little money and pay from your profits. Address:

SANDWICH MFG. CO.
170 A St. Sandwich, Ill.
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The PERFECT CORN HARVESTER
SOLD DIRECT TO THE FARMERS

$18.00---Freight Prepaid

Send for Booklet and circulars telling all about this labor saving machine.

The Cheapest and Easiest way Possible to Cut your Corn for Shock or Silo.

Oregon, Ill., Oct. 26, 1912.

Gentlemen—After giving the Perfect Corn Harvester a thorough working test in all conditions of corn in the cornfield, we write you that it has adjustment for a great variety of conditions in cutting high, medium or low. We are very much pleased at its light draft and steadiness in following the center of the row. We consider it the very best one-horse corn cutter that the experimental station has ever had an opportunity to demonstrate, and we commend it to the corn cutting farmer.

Very truly, Samuel Ray.

LOVE MANUFACTURING COMPANY - - DEPT. 4, LINCOLN, ILL.

FARM FURROWS

Now is the time to investigate the merits of deep and shallow cultivation of corn. Take a hoe and dig for moisture in fields worked both shallow and deep. See where you find the most.

Short pastures put more pressure on the fences alongside of cornfields. I want the best fence along cornfields, for there is where the tests are made. It's a good idea to look after them occasionally.

A man is safer to carry insurance. Whenever I have considerable grain or hay on hand I have it insured, then if lightning strikes or fire starts in any other way I know the loss will not fall on me.

The time when grading roads should be done will soon be here for this year. After the first of September any amount of fresh dirt thrown together hasn't time to settle sufficiently before freezing weather, so there is "softness" all winter.

A good many of the bread bakers think new wheat flour is not as good for bread as the old, consequently there is a demand for all the old wheat flour at this season of the year—a fine idea from the miller's standpoint and it gives him a chance to work off his old stock of flour.

Folks are finding that there is no cause for hurry about filling a silo, and that filling it at the rate of a few tons each day makes just as good silage as to make shorter work of the filling. You can take your own time to it if you want to.

A friend of mine who owns an engine-plowing outfit thinks he could do better work and do it easier if he had gangs of disk instead of moldboard plows. He says when it is dry enough for the engine it is dry enough so disk plows pull much easier and pulverize the soil better.

With a good crew, the modern baler makes fast work of putting hay in the bale, and where a man owns his own baler I am not sure but what it is the most economical way of taking care of hay, as it can be quickly handled, requires small space for storage, and in case there is a surplus, it is instantly ready for the market.

Raising or lowering the draft on a collar often relieves a sore that is starting to form on a horse's shoulder. If everyone should see this and keep the hames snug tight on the collar there would be less shoulder trouble.

Mail carriers are getting autos in which to carry the mail. Of course, there will be many days in the course of the year when autos cannot be used, but right now, with the thermometer close around the 100 mark and the road is hot and dusty, the auto is certainly a great saving on horseflesh.

When the cultivators are put away don't forget to grease the shovels. This will save a lot of time next spring, when time is worth more to you than the few minutes it will take now to smear grease on the shovels.

When we start fall plowing we begin the making of our next year's crop. Let us see that the plow is sharp and bright and that each furrow is as near perfect as we can make it.

Hens that must fight mites day and night are too busy to pick up feed and lay eggs. It is no pleasant task to go into a mite-infested hen house and fight them, but it is more unpleasant to get along without hens and "hen fruit."

Kerosene seems to be taking the place of gasoline for furnishing power for small farm engines. Will this lower the price of gasoline or will it raise the price of kerosene? Time will tell.

It is generally a mistake to discard old machinery and buy new before the old is worn out, but with the manure spreader the temptation is great when we think of that extra foot that we must lift for every forkful of manure.

All Types From 11-2 to 60 H.P.

"INGECO" Engines

A BIG MONEY SAVER

An engine that you can bet your last dollar on to work right in all kinds of weather—a fuel saver — an easy starter — a steady worker.

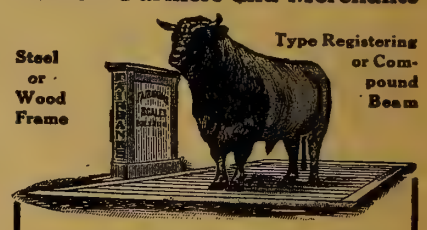
The "INGECO" is just that kind of an engine and besides its reliability it has a record for keeping out of the repair shop—it is a marvel of simplicity—there is nothing to get out of order. Once set it runs constantly without trouble.

KEROSENE ENGINES

Find out about "INGECO" Kerosene, Oil and Distillate Engines before you make another move on the engine question—you'll be ahead in money and satisfaction.

International Gas Engine Co.
152 Holthoff Place, Cudahy, Wis.
(Suburb of Milwaukee)

FAIRBANKS SCALES
Best for Farmers and Merchants



For Accurate, Reliable, Weighing of Stock, Hay, Grain or Merchandise—

USE FAIRBANKS SCALES

They have the Confidence of the Public
Most Convenient to Install,
Economical to Maintain and
Built to Last a Lifetime.

Official Scales at all the Great Stock Yards:
Chicago, Kansas City, Omaha,
St. Louis, Fort Worth, St. Paul.

Now is the time to buy. Send for prices and Scale Catalog No. ZF 603

Fairbanks, Morse & Co.
900 So. Wabash Ave., Chicago, Ill

MILLER SECTIONAL CORN CRIBS

CRIB THAT CORN. A few bushels saved pays big interest on the cost of a Miller Sectional Corn Crib.

Made of No. 1 Yellow Pine throughout, tongue-and-groove floor, box car roof, dipped in weather-proof mineral paint. A better, stronger crib than a carpenter would build. Bolt together in a few hours. **Costs you no more than the lumber in your town.**

Comes in sections eight feet wide, ten feet high, in multiples of four feet to any length. Also double cribs. Bolts and braces furnished. You set it up with a monkey wrench. Put it where you please, move it when you please. It's an investment, not an expense.

Largest manufacturers in the world, of Sectional Corn Cribs, Hog Houses, Poultry Houses, Ice Houses, Cold Storage Buildings. WRITE FOR OUR CATALOGUE.

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Farmer Burns School of Wrestling
447Z Ramge Bldg. Omaha, Nebraska

CURRENT EVENTS

CONGRESS continues to mark time on tariff legislation. Little or no headway has been made for the past week, with the result that whether one favors the Underwood-Simmons bill or not there is a general inclination to get the matter settled and over with, so that business may know what to expect and what conditions to meet. Congress has now been in session for almost four months, while the senate has had the tariff bill before it for fully two months. Nothing is being done except the delivery of opposition speeches, by republican senators, to empty benches. It is almost a foregone conclusion that no amendments of importance will be adopted and that the bill will go through the senate as agreed upon by the finance committee and will then be worked over by a joint conference of democrats from the two houses. Senator Kenyon, of Iowa, voiced the feeling of a great many people when he declared, during the past week, that the country, as well as the senate itself is getting tired of the tariff debate, inasmuch as no new facts are being brought out and no striking speeches are being made, such as were heard when the progressive republicans were opposing the Payne-Aldrich bill a few years ago. The democrats were elected on a platform of tariff revision and the country is prepared for the anticipated change, fully as much now as it will be after a few weeks more of futile speeches delivered in congress mainly for the purpose of getting campaign documents printed at public expense for individual use.

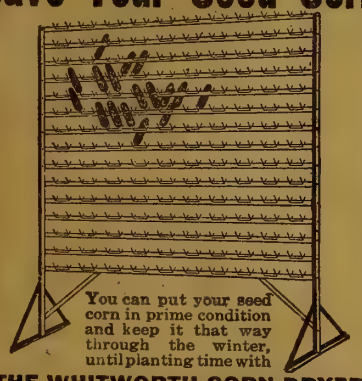
EXCESSIVELY hot weather has been general throughout the greater part of the grain belt the past week, the thermometer registering above the century mark several days in succession, throughout Iowa, Nebraska, Kansas and Illinois. The 110 degree mark, official, was reached in Nebraska and Kansas, while a score of grain-belt towns reported 100 degrees or above. While the grain belt was thus sweltering, the District of Columbia was visited by a devastating wind and hail storm, which caused the loss of several lives and hundreds of thousands of dollars worth of property. The White House lawn was ruined and scores of streets, which had been lined with stately elms and fine shade trees, were littered with debris within a few minutes. One of the unusual feats of the wind was to whip a package containing 1,000 one-dollar bills through the window of the government printing office and scatter the money far and wide. vigorous search failing to return almost a hundred of the lost bills. A hail storm in Minnesota, in the Red River valley, caused considerable damage so that the weather has been an important factor in the week's progress in practically all parts of the country.

MEXICAN conditions seem to be going from bad to worse. During the past week an immigration official of the United States, crossing the border in the legal pursuit of his duties, was fired upon by Mexican soldiers and only escaped assassination by fleeing at top speed. President Wilson immediately demanded the arrest and trial of the guilty soldiers and the Huerta government acceded to the demand. In the meantime Ambassador Henry Lane Wilson was summoned from Mexico to Washington to give first-hand account of conditions in the southern republic. He spent the greater part of the past week in conference with President Wilson and Secretary of State Bryan. Ambassador Wilson is strongly in favor of the United States recognizing the Huerta government, but President Wilson is opposed to this, mainly because Huerta came into office through the assassination of the legally elected president, Madero, the people having no voice whatever in seating Huerta. Mexican finances are in a precarious condition, it being said that French investors have lost $250,000,000 in Mexican securities in recent months. Two revolutions are in progress and the country is torn asunder with factional fighting and economic and financial troubles. As a compromise it has been suggested that Huerta resign and permit a provisional president, acceptable to all factions and to the United States, to rule until a new president can be chosen at a regular election. It is extremely doubtful if he is patriotic enough to take such a course. The United States will maintain the Monroe doctrine and refuse to let Europe intervene. Unless better conditions come soon, however, the situation will be so critical that American intervention, or mediation at least, can hardly be avoided.

Whether to haul the manure and spread on the plowed fields or spread it on the stubble and plow it under is a question that is still being discussed. If in doubt, try both ways, but don't let the discussion of this or any other question interfere with the work of getting the manure hauled to the field and spread. A manure pile is a nuisance as long as it is a manure pile.

A few years ago three barbed wires was considered a pretty good fence. Now it takes three wires and woven wire in addition. Woven-wire fencing is a long step toward better farming and fewer neighborhood quarrels.

Save Your Seed Corn



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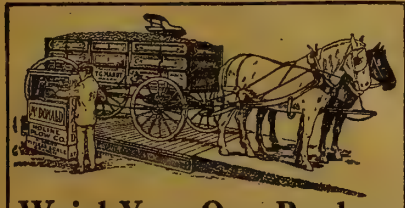

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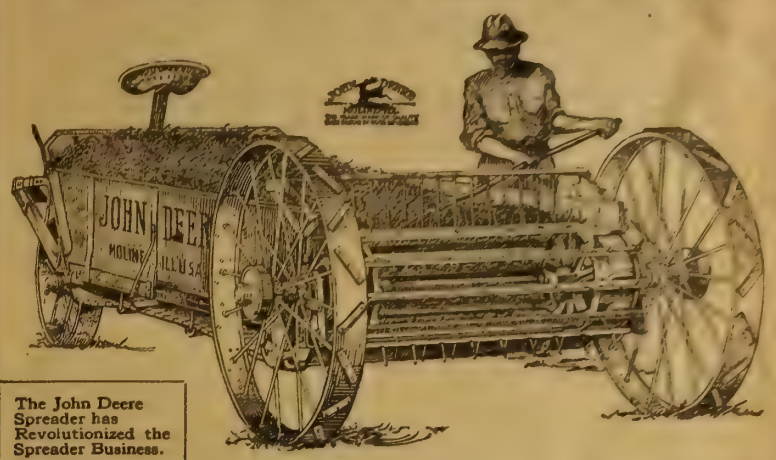
John Deere Spreader

The Spreader with the Beater on the Axle



The John Deere Spreader has Revolutionized the Spreader Business.

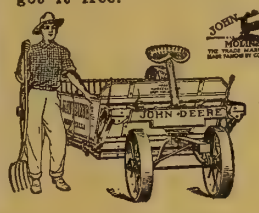
Here are Some of the Reasons:

BEATER and all its driving parts are mounted on the rear axle. Power to drive it is taken from the rear axle through simple gears like those that have been used on horse-powers for many years. This construction is patented. You cannot get it on any other spreader.

ONLY HIP-HIGH, easy to load. The top of the box is only as high as your hips. Each forkful of manure is placed just where it is needed. You can always see into the spreader.

FEW PARTS. Clutches, chains and adjustments—in fact, some two hundred parts in all—are entirely done away with. To throw the machine into operation, move the lever at the driver's right back until the finger engages a large stop at the rear of the machine.

ROLLER BEARINGS together with the simplicity of the machine itself, make the John Deere Spreader light draft. There are many more reasons that have helped to make the demand for John Deere Spreaders greater than all those interested in the spreader business thought possible. These features are fully discussed in our spreader book. You can get it free.



The Low Down Spreader with the Big Drive Wheels

What You Want

Here's your chance to get exactly what you want in a manure spreader.

One that is easy to load, light for your horses free from constant repairing, and one that will last as long as you think it ought to.

What You Get

With a John Deere you get a low-down spreader in which the advantage of big drive wheels is not sacrificed for the low down feature.

You get a spreader that is easy for your horses because it has these big drive wheels, together with roller bearings, few parts, the center of the load comparatively near the horses and evenly distributed over all four wheels.

No clutches to get out of order, no chains to give trouble, no adjustments necessary.

Built with steel frame, securely braced, like modern railway bridges—strong and durable.

Why You Get These Things

Mounting the beater on the axle makes all these things possible in the John Deere Spreader.

It does away with some two hundred trouble-giving parts. It makes the spreader low down. It permits the use of big drive wheels. It does away with clutches, chains and adjustments. It puts all the strain and stress of spreading on the rear axle, where it belongs, not on the sides and frame of the spreader.

It does a lot of other good things, too. They are fully illustrated and described in our new spreader book.

Get this Spreader Book

It tells how the John Deere Spreader is made and why it is made that way. It contains illustrations of the working parts and colored pictures of the John Deere Spreader in the field. It also has valuable information in regard to storing, handling and applying manure to the land.

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Up-to-date crib plans with detailed drawings, specified bill of lumber with estimated cost, mailed to you free.

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for I am going to give him to some boy or girl who will do a little easy work for me. I have just given "Dandy," another beautiful pony, and now I am going to give away this pony. But first I want a name for him.

1500 VOTES FREE

Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full particulars about the pony as soon as I hear from you. Write me today.

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Starves Rats Saves Grain

Saves more than its cost every season. Costs but a trifle more than wood, outlasts a wooden granary 3 to 1. This portable, rust-proof metal granary is a proven success.

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Can be partitioned to store 2 or more kinds of grain at once. The Northfield combines all the good features found in other makes and has several new features.

Insures Your Valuable Grain against fire, dampness, rats, thieves, etc. It will dry out and preserve your grain better than the best wooden bin. Is ventilated through floor and sides, under eaves and by great big cupola. Holds flax or any small grain and is easily converted into a thoroughly ventilated corn crib. Has anchor bolts that make it wind proof. Only bin with a perfectly smooth rain proof floor. Side and floor sections connected by interlocking cleats. Stronger than bolts. Easiest and quickest to set up. Sections all interchangeable. The heaviest bin of its size. Built to stand rough usage. Most reasonable in price compared to its weight. Thousands are in use.

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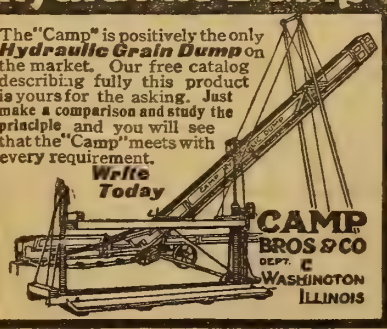

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The O. H. C. Hog Oiler, using crude oil will kill the Lice and make the skin smooth and healthy. Small expense; no labor. Sold on Positive Guarantee. Satisfaction or money back. Endorsed by Leading Breeders. *Can of Oil FREE. Saves cost of "Dip." Write for particulars.*

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VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

HEAVES.

I have a mare six years old that got in the drill about three months ago and ate a lot of dusty oats from the box that stayed in the drill, and she got a bad cough. We feed her stock food and it doesn't seem to help her. She is getting so she can scarcely breathe. Please tell me what I can give her to stop the cough.

We suspect that the mare is badly affected with the heaves and should not be worked at present. Turn her out on good grass and let her live on that without other feed. Night and morning give her half an ounce of Fowler's solution of arsenic. As soon as she is relieved she may be lightly worked, but not soon after a meal. When she works again do not feed any bulky feed at noon and continue to feed green grass and add whole oats and wheat bran. In winter time feed wetted oat straw in preference to hay. Silage and roots may also be fed, in addition to grain. Confirmed heaves is incurable. Gradually discontinue the medicine as the aggravated symptoms abate.

BRAIN DISEASE.

I have a bull three years old that has been acting very queerly for the last two weeks and appears to be very sick and getting worse every day. When I first noticed him he was running along the pasture fence all around the pasture and always around the same way and would not eat any grass. I put him in a box stall in the barn and he continually goes around to the left almost all day and has been eating or drinking scarcely anything. He is so weak and poor now he can hardly stand up. His back seems to be getting a curve on it to the right. I had our veterinarian examine him and he decided that he must have gotten a mild stroke of lightning. If this is the case do you think I can recover any damage from the insurance company? Is there anything I can do for him?

It seems evident that there is a clot of blood, or collection of serum or puss in the brain and that is affecting the spinal column and causing the abnormal movements described. This might come from a blow, lightning stroke, or some disease, such as tuberculosis, but it would be impossible for us to assign the exact cause or to say if damages can be recovered from the insurance company. The ailment seems to be incurable.

SPAVIN.

(1) I have a bay horse four years old, weighing about 1,050 pounds, that has a small bone spavin on his left hind leg. It is just beginning to make him lame. Is there any cure for same? (2) I also have a brown horse weighing about 1,450 pounds, four years old, that has a sore neck. This doesn't appear to be painful, but there is a hard, grizzly like, cone-shaped scab forms, which I have cut out once.

(1) Have the spavin fired and blistered by a qualified veterinarian and then tie the horse up short in stall for a six weeks' rest. (2) A "sitfast" is present and should be cut out. The sore will not heal unless this is done. After the operation apply two or three times a day a lotion composed of one ounce of sugar of lead and six drams of sulphate of zinc in a pint of soft water. Label the bottle "poison" and shake well before use.

WORMS OF HOGS.

We have been feeding our hogs a mixture of salt, ashes and copperas in self feeders. What proportion do you advise? We have eighty spring pigs that we want to feed copperas and they do not eat dry mixture. We slop them with a mixture of corn, oats, and rye ground. What amount of copperas should we feed in slop? We use the copperas, salt and ashes as a safeguard from disease.

It is a mistake to dope hogs with drugs when they are well and the mixtures commonly used will not ward off disease, but may prevent or destroy worms. Copperas (sulphate of iron) should not be fed to pregnant animals, as it may cause abortion. For the destruction of worms mix one dram of copperas in the slop, for each one hundred pounds of body weight of hogs and continue for five consecutive mornings. Divide the pigs into lots of five so that they will take their right proportion of drugged slop. The treatment may be repeated in two weeks, or whenever worms are thought to be present. Occasionally use the mixture also tends to prevent worms in hogs.

INJURED TENDONS.

I have a small western bred saddle pony weighing about 650 pounds, seven years of age. For the past two years she has been ridden about ten miles each day. Last spring she showed a little swelling in both front legs from pastern up to knee. It seemed to come and then disappear, but in June the swelling came again in the same place, the back of the leg, and it is still swollen and quite hard. She has run in the pasture the past month.

Thickened or bowed tendons have resulted from a sprain. It would be well to clip off the hair and blister the back tendons, and enlargement, with cerate of cantharides and if necessary repeat the blister in a month. In bad cases it is best to have the parts linefired and blistered by a veterinarian. Where there is swelling of the legs, without lameness, we would simply hand-rub the parts three times a day and then wrap with cotton batting and bandage snugly.

TUMOR.

I have a sorrel horse colt one year old May 1st, which has a hard bunch about the size of a large duck egg right in front of the sheath. It has come on him in the last two weeks and I have done nothing for it. It doesn't seem sore and I can move it around. It appears to be in the skin. The horse is in an open pasture where there are no brush or sticks that he could hurt himself on. When I had him trimmed about the first of June he swelled up pretty badly, but got all right and then this bunch appeared.

Paint the tumor once daily with tincture of iodine and if it softens it will have to be opened for evacuation of pus and then injected and swabbed daily with the tincture until healed. One must make sure, however, that it is not a rupture at the naval (umbilical hernia) before using a knife.

Ask your neighbor to subscribe for The Homestead.

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Then You Can Re-temper Acme Shares

To keep a hard, sharp, keen cutting plow share, you must have one that can be re-tempered after sharpening.

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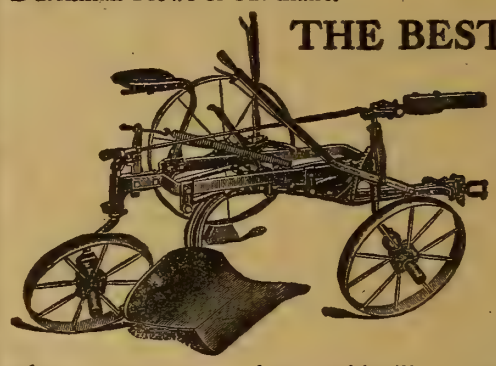
Acme Steel Shares are made by our **own** process in our **own** factory. They are used only on **Best Ever** and other Flying Dutchman Plows of our make.



THE BEST EVER PLOW with **Acme Steel Shares** is the most economical for you to own. It is the strongest plow made—the lightest draft plow. It will turn more acres per day, with less wear and tear on the team than any other plow.

If **Best Ever** plows were equipped with ordinary 3-ply shares, used by other manufacturers—they would still be superior to any other plow on the market—but when you add to their many other advantages that of **Acme Guaranteed Shares,** you will agree with us that the equal of the **Best Ever** has never been produced.

Your Flying Dutchman Implement Dealer sells the BEST EVER. Look him up. Write us for our FREE BOOKLETS. DEPT. NO. 11.

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Runs Successfully on Either Gasoline, Motor Spirits or Kerosene

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Its 4-cylinder motor, light weight, great power, simple operation, economical fuel consumption, make it the best, most practical, all-purpose one-man tractor manufactured. Investigate before buying. Write today for free book on Tractor Farming.

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The world's standard rubbing post. Buy the original, you need one in your hog yard to keep your hogs free from lice and mange, uses crude oil. Guaranteed by a $10,000 Corporation. Send for big free Oiler Book.

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LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LANDLORD'S LIEN FOR RENT.

In various states of the middle West the law protects owners of land against irresponsible and dishonest tenants by giving the landlord a lien on the crops raised on the rented premises to secure the payment of the rent.

In Iowa the landlord has a lien for his rent upon all crops grown upon the leased premises, and also upon any other personal property not exempt from execution which is kept or used on the premises by the tenant and owned by him during the time of the lease. This lien continues for the period of one year after the rent is due providing it is not more than six months after the expiration of the term. The lien may be foreclosed or enforced by a suit and attachment before a justice of the peace if the amount is within his jurisdiction, otherwise in the district court.

In Kansas rent due for farming land is a lien on the crops grown on the premises and may be enforced by suit and attachment in any court having jurisdiction, and the crops, or so much of them as may be necessary, may be levied on and sold to satisfy the claim of the landlord.

In Oklahoma the law is similar to that of Kansas.

In Missouri every landlord has a lien upon the crops grown upon the leased premises in any year for the rent that accrues in that year. Such lien continues for eight months after the rent becomes due and payable and no longer. It may be enforced by suit and attachment in justice or circuit court, whichever may have jurisdiction.

In Illinois a landlord has a lien for his rent upon the crops grown or growing upon the rented premises, whether the rent is payable wholly or in part in money or specific articles of property or products of the premises or in labor and also for the faithful performance by the tenant of the terms and conditions of the rental contract. Such lien continues for six months after the lease expires.

In Wisconsin, Minnesota, North Dakota, South Dakota, and Nebraska there is no statute providing for a landlord's lien. In these states the parties may make a contract which will have the effect of a lien.

Where a landlord's lien is provided for by statute, the landlord may follow the crop or property subject to the lien into the hands of a purchaser who has notice and hold him liable thereon to the extent of the rent which is due him.

LAW QUESTIONS CONSIDERED.

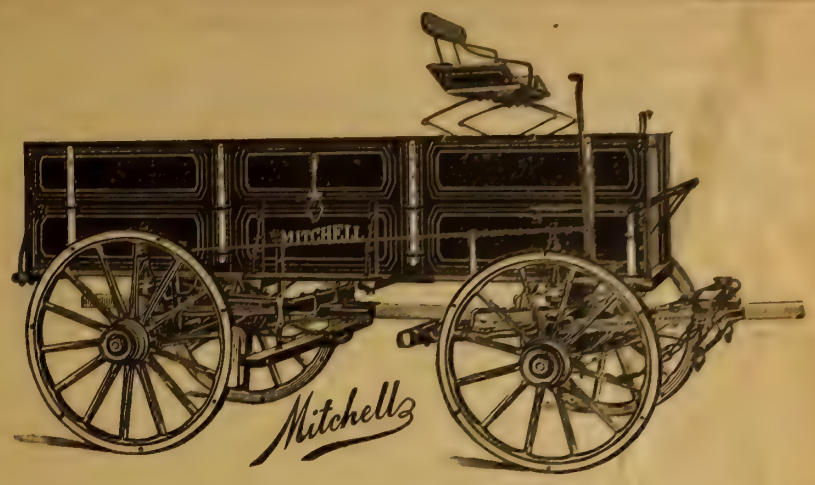
RIGHTS OF ALIENS.

A Subscriber, Exira, Iowa.—What right has an alien to sell or to will property acquired in the United States?

Answer.—The rights of aliens to acquire, hold, sell or otherwise dispose of property in this country, are fixed, regulated and controlled by the constitutions and laws of different states, and it is not expedient for us to examine all these constitutions and laws. The constitution of Iowa, Section 22, Article one, provides that resident aliens have the same rights in respect to the possession, enjoyment and descent of property, as native-born citizens. The laws of Iowa give non-resident aliens limited rights to property within the state. Every state regulates this matter for itself. By the common law, an alien could not hold real estate.

A Subscriber, Osage, Iowa.—A owns the southeast quarter, and the southeast quarter of the northeast quarter of Section 31 in a certain township in Minnesota. B owns the balance of said section. The surveyor finds the section short about three rods on the northeast quarter. Is A required to bear any loss of land by reason of such shortage?

Answer.—Your statement is very indefinite about the shortage. It omits to state whether the shortage is on line running north and south or on line running east and west, and also omits to state whether the three rod shortage at northeast quarter continues of uniform width from one corner to the corresponding corner west or south. Shortage of area in a section means that the section is not exactly one mile square, containing 640 acres, and the shortage must be borne by the owners of the land. In this case, A would have to bear part of such shortage, but how much, would be difficult to say. Only a surveyor could determine the precise area.



GOING a-field in Mitchell wagons has been the habit of generations of American farmers.

It's going to be the habit of generations to come; for the same old company that's been making Mitchell wagons for 79 years—ever since 1834—is going to continue making them in the same honest way and of the same good material that has made the Mitchell known everywhere as Old Reliable.

If you'll study how the Mitchell wagon is made to have strength, light-draft, and long-life built into it you will see why your next wagon should be a Mitchell.

For prices write the factory or the nearest branch house or representative:
Mitchell Motor Co. of Dallas, Dallas, Texas
Mitchell Motor Co. of Kansas City, Kansas City, Mo.
Mitchell Motor Co. of Atlanta, Atlanta, Ga.
Mitchell-Lewis Motor Co., Minneapolis, Minn.
E. G. Nelson, 1117 Farnum Street, Omaha, Neb.
C. W. Keith, 1533 Wazee Street, Denver, Colo.

Mitchell-Lewis Motor Co., Racine, Wis.

Wood Shingles Won't DO!

In this **20th Century AGE OF STEEL**, wood shingles are fast disappearing. They cost too much; they rot out too quickly; too much trouble to put on; too apt to catch fire. That's why 100,000 men have come to put these beautiful **Edwards STEEL** Shingles on their buildings.

Edwards Steel Shingles **never** burn nor rot. Come in big clusters of 100 or more, which makes them ten times as easy to put on as **wood** shingles. Each Edwards **STEEL** Shingle is dipped in **molten zinc AFTER** it is cut. No raw or exposed edges. No chance for rust ever to get a foothold. And the patented Edwards Interlocking Device, which allows for expansion and contraction, gives **PERMANENTLY water-tight** joints.

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Get Prices As to prices, these **STEEL** Shingles are far below wood. For we sell direct from factory to user and pay the freight ourselves. Just get our latest Steel Shingle Books and Prepaid Factory Prices. Then compare. Then see if you can afford common wood shingles when you can buy genuine Edwards **STEEL** Shingles at these prices. Give dimensions of your roof if possible, so we can quote price on entire job. Send postal today and our Catalog 890 and Prices will reach you by return mail.

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—let us send it to you at once and prove to you how you can increase your crops each year and get *higher prices* by using the Crop Maker Fanning Mill—the only one that runs on *Roller Bearings*—that perfectly separates oats from wheat, oats from barley, tame oats from wild. This great machine perfectly grades corn and cleans all grass seed. The

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is light, smooth running, easily operated, will last a lifetime. Before you sell or plant a bushel of seed investigate our 30-day Free Trial offer. Our bed rock factory prices—*direct to you*—will put money in your pocket. We will absolutely prove to you that the Crop Maker is the fanning mill you ought to have.

Write now for the **Free Book**

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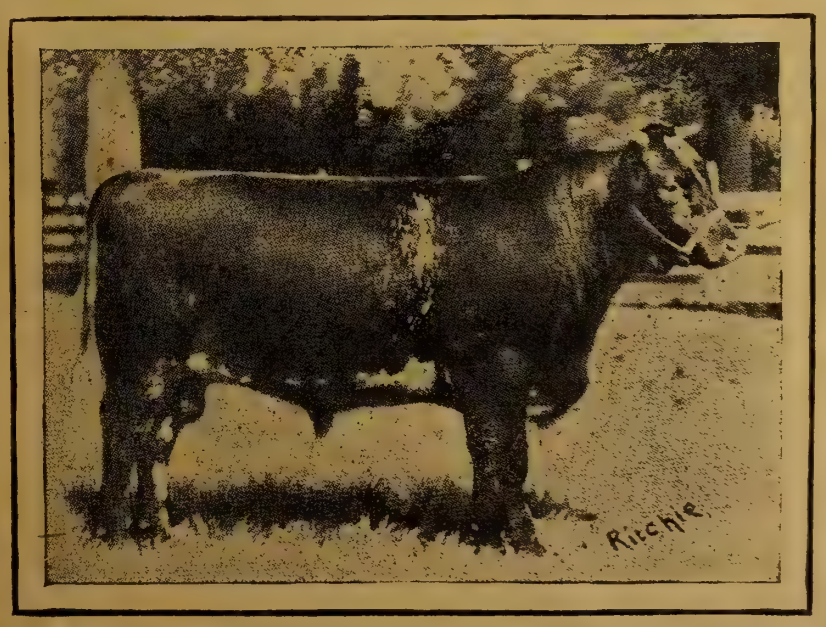
St. Paul Fanning Mill Co.
Station 6, St. Paul, Minn.



The drawing shown herewith is a good likeness of the bull, Snowflake's Model. He was in his senior yearling form at the time this picture was made. This bull was got by the great Snowflake and was first or second at all the leading western shows in 1909. He is owned by W. W. Birge, North Platte, Neb., one of Nebraska's more prominent stockmen and farmers. Mr. Birge also breeds Poland Chinas.

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Yields 50-75 bu. per A.

Investigate most wonderful variety ever introduced. Yields astounding returns. No variety equal to it in yield or quality. Write for catalog and circular describing Berry's New Imported Kharkov. Grow a bumper crop of prize wheat next year. Reports of government experts and experimental stations show Kharkov always a leader in yield. Yields more bushels per acre than any winter wheat. Farmers who have grown this variety are very enthusiastic. Seed costs you but little more than common stock, yields double. Grows anywhere. Get our circular that tells how to double your profits on wheat growing.

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Imported Direct From Russia

Stands most severe winters. Produces the best milling wheat known. Stools more freely than any other variety, hence largest yielder. On market seven years, demand constantly increasing. Hard to supply the demand. Get Berry's latest Imported Kharkov and double your profits.

Have Turkey Red, Defiance, Malakoff, Mammoth White Rye; large stock Alfalfa, Timothy and all grasses. Write today for free samples, circular and low prices.

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DO NOT BUY a *bicycle or a pair of tires* from anyone at *any price* until you receive our latest **art catalogs** illustrating every kind of bicycle, and have learned our *unheard of prices* and *marvelous new offers.*

ONE CENT is all it will cost you to write a postal and everything will be sent you **free postpaid** by return mail. You will get much valuable information. **Do not wait**, write it **now**.

TIRES, Coaster-Brake rear wheels, lamps, sundries at *half usual prices.*

Mead Cycle Co. Dept. A184 ***Chicago***

CORN HARVESTER with Binder Attachment cuts and throws in piles on harvester or windrow. Man and horse cuts and shocks equal with a corn binder. Sold in every state. Price $20 with fodder binder. J. D. Borne, Haswell, Colo., writes, "Your corn harvester is all you claim for it; cut, tied and shocked 6 acres milo, cane and corn last year." Testimonials and catalog free, showing pictures of harvester. Address
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Why Not Get All the Profit From Your Corn?

EVEN the most unprogressive farmer of today would consider himself badly treated if he were compelled to harvest his grain with a cradle. He is too familiar with the easier and more profitable grain binder method.

Why then do farmers continue to cut corn in the old back-breaking, time-wasting, extravagant corn-knife way? What good reason is there why every corn raising farmer should not use I H C corn binders?

Cut your corn with a binder and you get the stalks and leaves at the time when they are full of nutritious juices and when their feeding value is greatest. The stalks and leaves contain more than one-third of the digestible nutriment of the corn plant. Hand cutting is too slow to enable you to harvest this valuable fodder properly, or it is too expensive on account of the extra help involved to make it worth while. You avoid the waste, the expense and the worrying trouble of securing extra help when you cut your corn with an

I H C Corn Binder

Deering, McCormick, Milwaukee or Osborne

It cuts and binds five to seven acres per day, saves you a deal of labor and trouble, and gives you a plentiful supply of nutritious stover; good for winter feeding because of its warming qualities.

I H C corn binders are built to do the best work under all conditions, whether corn is tall or short, straight, down or tangled, or on hilly or rough ground; and they leave clean fields behind. To get the most out of your crop you need an I H C corn binder. Then when your corn has been cured for a time in the shock, run it through an

I H C Husker and Shredder

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You will save the added labor of husking by hand, and more important, secure at no additional expense the clean stalks, leaves and husks, shredded into palatable fodder—an excellent substitute for your hay, which can then be baled and sold in the best market. It will pay you well to look over the I H C line of corn machines at the local dealer's. Write us for catalogues and full information.

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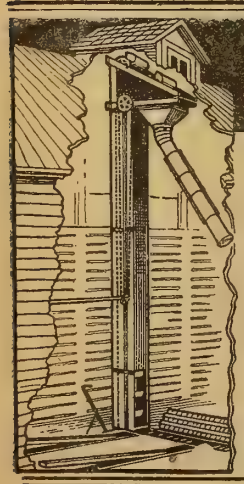

A MACHINE LIKE YOUR GRAIN DEALER USES

THE "Hart" Bucket Elevator is the most massive and securely made elevating device you can buy. Will work under all conditions and handles all kinds of grain, even coal, most economically. Withstands continuous usage without causing trouble This machine, when installed, requires less room, will not block your driveway and is always ready for use.

FINEST quality material is used. Buckets are made of pressed steel 16 inches wide attached to No. 77 sprocket chains. The "Hart" machine absolutely cannot clog. Grain cannot splatter over or carry back at the top. The special front panel, encasing the buckets, makes it impossible for grain to drop elsewhere than into the bin. Machine can be operated with overhead lift or log dumping device.

THE elevator can be installed in any of your cribs—or if you intend putting up a new barn or crib, ask for our **architects plans, furnished free**, to fit your exact needs. Just tell us capacity desired and type of elevator and we'll send information that you should have. Remember—buying the "Hart" machine means having a real elevating plant. Write today for catalog.

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HOLSTEIN CATTLE

Study the external form of any great producing cow; it reveals the manner in which she does her work. You can learn to recognize the essential points that indicate great and economical production—the evidences of consitution, capacity, vitality, blood circulation and ability. These characteristics you will find more generally developed among Holsteins than among other breeds. Holsteins are naturally large animals with an abundance of constitutional vitality and they have been developed by breeders who recognized the importance of those points.

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65 HEAD REGISTFRED HOLSTEIN-FRESIAN COWS AND HEIFERS

I AM offering a splendid lot of cows and heifers for sale, due to calve in the fall to a son of King of the Pontiacs, or Sir Pontiac Ragapple Korndyke. Will make prices to suit for next sixty days. Also a few bulls of serviceable age for sale. Address ROCK BROOK FARM, Station B., OMAHA, NEB.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE SHORTAGE OF DAIRY PRODUCTS.

That a general reorganization of the live stock interests of America is going forward is apparent, but in the interim the people most interested to have the reorganization perfected in a manner best suited to the advancement of dairying, are slow to take hold, and there lies the danger. The breed men are the people who should be ever on the alert to press home any advantage the dairy cow may possess to assume the lead in any territory. This is being cared for by press and bulletin from the cattle club headquarters, but we fear that some of the breeders allow their personal interests to blind them to the good of the whole cause. Mr. Rawl gave a most interesting talk in June to the members of the Holstein-Friesian Association at their annual meeting in Syracuse, on community building and co-operation that all can well afford to heed.

To start the ball rolling to develop state and locality interest, the National Dairy Show has this year arranged a program to be published later in which every day of the show will be assigned to developing—or "boosting," if you choose—a branch of the industry and a breed of dairy cattle. The whole machinery of the show, for instance, on Jersey Day will be devoted to advancing the Jersey cow, Jersey milk, butter, ice cream; likewise Guernsey Day for Guernseys; Ayrshire Day for Ayrshires and Holstein Day for Holsteins; also Brown Swiss, Dutch Belted and Dexters in their turn. This makes it incumbent on the admirers of any breed to get under their own breed and develop an interest and bring their neighbors and friends to see the display of their favorites in this great show. The National Dairy Show is the highest exponents of all things "dairy" in the world, and all interested in the dairy cow coming into her own in America should shape their engagements to be on hand on their breed day.

THE CREAMERY NEEDS EFFICIENCY.

The essential point in organizing a co-operative creamery is well set forth by G. M. Lambert, federal dairyman of Salt Lake City, who says: "It is with the idea of receiving greater returns and more efficiency that the majority of co-operative creameries are organized. No creamery can hope to be successful that does not have the thorough co-operation of its patrons in producing a good quality of cream to make good butter. It requires good markets to obtain good prices, and it requires good prices to encourage good dairying.

"Dairying must be considered as one of the state's greatest resources, and as such it must be protected in the same manner and degree as are other state industries and enterprises.

"I believe the state of Montana has taken a great step forward in the way of protecting its dairymen—and it is the duty of every state to protect its people. Montana vested the authority in the state dairy commissioner to say when a new creamery shall be started in that state."

That is an excellent provision, for many creamery organizations have failed because they lacked the knowledge of the essentials for co-operation—a sufficient number of cows, and co-operative spirit and efficient management.—[G. L. Martin, professor of dairying, North Dakota Agricultural College.

HOT WEATHER FEED.

The hot season is at hand and stock keepers are well aware of the difficulties confronting them. It is always a trying season, especially for the dairymen, as pastures become short and dry and flies numerous. Those who have had experience with feeding silage during the summer, are familiar with its advantages, and the time is not far distant when the summer silo will be as carefully provided and filled as the winter silo, especially in sections of the country where pastures

No Hoops to Tighten
No Wood to Shrink

No trouble to erect and no expense to maintain. The only silo that is built throughout of materials that are unchanging and permanent. Rust-proof, rot-proof, frost-proof, acid-proof, time-proof and fool-proof. Wind, fire and lightning cannot affect the

AMERICAN INGOT IRON SILO

Absolutely air-tight and smooth on the inside. Doors open inward. Roof with ventilator scuttle door and railing included in price of silo; also ladder and chute for silage. No extras to pay for. Quickly erected. A wrench is the only tool you need. The "American" cures and keeps silage perfectly. No more mildew. No seepage or leakage. No loss of succulence. *Write today for catalog J.*

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Bigger Silo Profits

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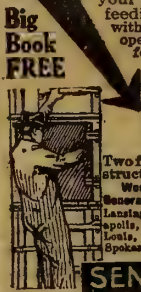
Cut one half off your Silage feeding work with the Hinge Door Silo. Doors operate on hinges. Write for our catalog on



The HINGE-DOOR SILO

Two famous makes. Best construction in both.
Weeds Bros. Silo & Mfg. Co.
General Office - Lincoln, Neb.
Lansing, Mich., Marysville, Mo., Minneapolis, Minn., Cedar Rapids, Ia., E. St. Louis, Ill., Topeka, Kan., Lexington, Ky., Denver, Col., Spokane, Wash. *Write Nearest Office.* Dept. 16

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You Can Get An INDIANA SILO QUICK

We have all our Silo stock under cover, and its thoroughly seasoned ready to make your Silos.

Write, telephone or wire us, and we will make delivery quick.

Let us send you our Silo Book **Free.**

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Distributors, Papec Ensilage Cutter. The largest makers of Silos in the world. Address nearest factory: 521 Union Bldg., Anderson, Ind. 521 Indiana Bldg., Des Moines, Ia. 521 Silo Bldg., Kansas City, Mo.

Get All the Cream

This Speed Governor will save $3.00 worth of cream a year, from each of your cows by operating your separator at a steady, uniform speed. Automatically starts separator slowly and gradually increases it. Any speed obtained while machinery is in motion, by turning hand wheel. For fanning mills, churns, washing machines, etc. Ask your dealer or write

CEDAR RAPIDS FOUNDRY AND MACHINE CO.
Cedar Rapids, Iowa.

Kalamazoo SILOS Last

Construction is **right**, material **is right.** Only silo made with full-length, structural steel door frame heavily galvanized after the riveting. Not a crevice exposed to rust. Choice of seven kinds of wood. Inflexible guarantee. We prepay freight. Catalog shows many more fine points, write for it today. Address Dept 26

KALAMAZOO TANK & SILO CO.
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Minneapolis, Minn. No. Ft. Worth, Texas

Only $2 Down
One Year to Pay!

$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. **Guaranteed a lifetime.** Skims 95 qts. per hour. Made also in four larger sizes up to 5 1-2 shown here.

30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half.

ALBAUGH-DOVER CO.
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Stud Anchor. For barns, corn cribs, garages, using **concrete** wall, pier or floor. No sills needed, nothing to rot. Studs bolted to foundation.

Stud Anchor Works, Mendota, Ill.

EQUAL TO FINEST AUTO SPRINGS

in principle, quality of steel and grade of workmanship—in fact, made in a large auto spring plant—Harvey Bolster Springs can not be excelled for resiliency, durability and appearance. Get a set and save many dollars hauling your perishables. Beware of substitutes. If not at your dealer's, write us.

Harvey Spring Co., 734 17th St., Racine, Wis.

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HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

FOR HOLSTEINS

WRITE RUSSELL

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Holstein-Friesian Bulls

FOR SALE — One thirteen-months-old bull by Dutchland Hengerveld Winona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address
A. J. Podendorf, Logan, Iowa.

HOLSTEIN COWS, HEIFERS, BULLS

250 HEAD in herd. Some very choice young bull calves. Write us; let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
WOODLAWN FARM - STERLING, ILL.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third-rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented. Bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

HOLSTEINS—Old and young bulls, cows, heifers, calves. Get our sale list. Prices low; quality the highest. Galloway Farms, Waterloo, Iowa.

JERSEY CATTLE.

Buy Jerseys

Dollar for dollar invested, the Jersey will earn back the amount paid for her quicker than other breeds because her product brings a higher price per quart or per pound. For the home she is unsurpassed, and her low cost of keep makes her most desirable. Write now for Jersey facts. No charge.

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Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

AYRSHIRE CATTLE.

AYRSHIRES—Bulls all ages, cows, heifers and calves. Ask for sale list. Highest quality—reasonable prices. Galloway Farms, Waterloo, Iowa.

GUERNSEY CATTLE.

GUERNSEYS

As you like them
Choicely Bred
Cows - Heifers - Bulls
All tuberculin tested and just as represented
It will pay you to ask about them
WALTER-WALWORTH-WIS

become dry and poor during the months of July and August.

During hot weather a cooling, succulent feed should be given and as it often happens dry, heating feed is used owing to the failure of the pastures. Corn silage being succulent food and acid in character, it is a splendid ration for hot weather. Both man and beast crave watery food during the hot season and nature as a rule supplies this. For example, green foods, vegetables, fruits and melons are in season during the hottest time of the year. To get best results, therefore, we should feed succulent rations to our stock in hot weather.

By turning part of the pasture land into corn ground and putting the corn in the silo a large increase in good, succulent food may be obtained. It has been demonstrated that land devoted to silage corn will supply six times more feed than if the same amount of land be kept in pasture. This is certainly worth considering if the land be high priced and the seasons uncertain. In fact, it is very difficult to figure a profit from pasture land which is valued at more than $100 per acre unless the season be very favorable to grass.

Several years ago I had an opportunity to discover the great value of the summer silo with a herd of dairy cows. The season was extremely hot and dry and the pastures failed absolutely during July and August. The cattle were taken off from the pasture and were allowed the freedom of a small paddock. They received good corn silage twice daily with a ration of grain given in amounts according to the needs of the animal. During that summer the herd made larger records than any summer previous and the cost of production was the very lowest.

Silage may be fed not only to cattle, but sheep, horses and even swine. The Michigan Experiment Station found a small ration of corn silage valuable and economical when given to work horses during the summer season.

With a summer silo the number of cattle carried on the farm can be doubled without requiring the purchase of additional forage, for much of the pasture land can be used for corn and other crops.

Keeping in mind that the cost of production is the key to success in all kinds of industry, the stock feeder should figure closely and he will do well to count the summer silo as one of the necessary equipments of his farm.—[A. L. Haecker.

THE PASSING OF THE FARM CHURN.

To the Editor of The Homestead:

In sections where dairying has become a dominant feature the farm churn has become almost a relic of the past. Recently I spent a Saturday evening in a village in which there were more cows than people. All the good housewives were lamenting that they had no butter for Sunday and that there was not a pound in all the stores in town. An inquiry as to the reasons for all the families' buying butter revealed the fact that formerly all the dairy produce went to a co-operative creamery and was here made into butter. It was a very easy matter for each patron to have carried to them by the cream haulers such amounts of butter as might be needed. About one year previous to my visit the business of the co-operative creamery had been taken over by a condensary which, of course, did not make butter. Few, if any, of the families had separators. Many of them did not require scrubbing. The co-operative creamery is a blessing to the housewife who is relieved of churning by it.

As a matter of economy, undoubtedly the creamery pays more for the cream than the market value of the butter would amount to, for under farm conditions not a high percentage of the total butter fat is secured in churning. The passing of the farm churn is one of the things that helps emancipate the farm woman from what has been considered drudgery.

H. E. McCartney.

FEEDING GRAIN IN CALVE'S MILK.

To the Editor of The Homestead:

I was interested in some advice given by your Farm Furrows' editor in which he does not recommend the practice of putting grain in the skim milk that is fed to calves. While I agree with him that it is a better plan to feed grain separately, yet I think that it is better still to scald the grain, allow it to cool and then add it to the milk. If the grain is ground and but little is used at first, there will be no scours, and you will find that you can increase the amount of milk without any detriment to the calf whatever.

By following this plan the calves can be carried along in good shape and the milk can be used for other purposes, particularly for pigs. The boiling of the water will disinfect the vessels each time so that first principles of cleanliness are complied with. It is better to have stanchions arranged so that the calves can be kept separated for a short time after they are fed. G. H. Van Houten.

Taylor county.

On land devoid of sufficient organic matter or sand, there sometimes occur spots that are apparently dead or unresponsive to water and plant life to any marked degree. Lack of plant growth is sometimes attributed to want of water, and oftentimes such may be the case, but the spots in question are of a different nature from the surrounding soil, usually very compact and almost impervious to water, indicating a too large percentage of clay. Experiment has shown that these spots can readily be brought to a high state of fertility by the proper incorporation of manure. Such a condition could not easily be remedied if it were a case of alkali, which answers the question several times asked, whether or not this be a case of alkali.

The flies are again the "worst ever." It is a wonder that cows can find time to eat during the daytime unless they are protected in some way. Fly sprays are good, but not many of us take time to apply them as we should.

DE LAVAL CREAM SEPARATORS

SAVE MUCH TIME AND LABOR IN SUMMER

Which means a great deal to the farmer, let alone the great increase in quantity and improvement in quality of product

The De Laval Separator Co.
New York Chicago San Francisco

WEBER FOUR-CYLINDER, 35 H. P. TRACTOR

The sensation of the century. Backed by Weber's 30 year's reputation. New Model. 35 Horse-Power. Lightest, strongest, most efficient Tractor made. A complete power plant.

SAVE $1,000.00

A wonderful price revolution. Tractor will pay for itself the first season. FREE TRIAL. Full factory guarantee. Write quick for illustrated book and amazing price offer.

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BEATRICE Cream Separator

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Easy to Run, Hard to Wear Out

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Do Your Horses Earn Money For You?

YOU CAN DO IT WITH A REO

Before you answer that question, we ask you as a business man, to consider the time and land you use to raise horse feed, and the money and care your horses take. Then think what you get for it—Is the work they give you worth all it costs? Isn't it true that you actually work for your horses more than they work for you?

You would be surprised to know how many farmers are realizing the value of Reo Motor Trucks. Even if your horses worked all the time—and you know they are in their stalls days at a time, "eating their heads off," this Reo Motor Truck would prove a money saver for you.

Forty cents worth of gasoline, five cents worth of oil, is all the feed this motor truck requires. Repairs almost nothing. One man recently wrote us his Reo Truck had cost him, besides fuel and oil, just $1.33 in two years.

These are facts you can't get around. Write and get some real, live information about motor trucks and the money they can save for you.

REO MODEL H
Capacity 1500 lbs.
$750

Reo Motor Truck Company,
1906 South Washington Ave.,
Lansing, Mich.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

WHITE DIARRHEA.

To the Editor of The Homestead:

A correspondent writing from West Union, Iowa, reports great losses from white diarrhea in her flock of little chicks. She asks for a remedy, also inquiring whether plenty of drinking water is injurious.

A number of articles have appeared in The Homestead from time to time telling of what has been discovered by government investigators in regard to this malignant plague—white diarrhea. So great were the ravages some years ago that the government appointed expert investigators to discover, if possible, the causes of the disease, also a remedy if possible.

The result of this investigation showed that the disease came from a germ present in many adult fowls which seemed to be little affected by its presence. But to the baby chick its presence is malignant and fatal. The most common means of its propagation is by way of the germs deposited on the egg shell when laid. In the process of incubation whether in the incubator or under the old hen, but more readily in the former as the germs multiply on the shells to an almost incredible number lying in wait for the chick to emerge, when it becomes their prey. Their presence is revealed by the so-called white diarrhea, and when this stage is reached remedies are of little avail.

This is a case when the "ounce of prevention" is the only recourse. Washing the incubator after each hatch with scalding hot soap suds, using also some one of the coal tar disinfectants such as napcreol, etc., is the first step. If the nursery tray is covered with burlap, put on a fresh piece after each hatch, washing, disinfecting and turning the egg trays. Then before placing eggs in incubator, wash them in 95 per cent pure alcohol solution. Pure alcohol, not denatured or wood alcohol is required.

Following this method white diarrhea has been eliminated from many a flock and even with its partial adoption in the country, the percentage of annual loss has been greatly lessened. In this way one of the greatest menaces to the poultry industry is being overcome.

Boiled milk, if fed in a sanitary fashion, is excellent for all chicks with bowel trouble. A little copperas or venetian red in the drinking water may be better than the clear fluid.

The ground on which the affected chicks have run should not be used for subsequent flocks, till then has been time for a thorough disinfection. This can best be accomplished by growing some sort of crop upon it. Put the new chicks on fresh, untainted ground. Mrs. S. B. Titterington.

MOLD ON AIR PASSAGES OF POULTRY.

To the Editor of The Homestead:

The disease known as aspergillosis is caused by a growth of mold in the air passages causing rapid breathing, rattling in throat, general exhaustion and extreme emaciation. The chicks literally starve to death in the midst of plenty. Throw food within reach and they appear to eat ravenously; examine the crops and it is the same old story—completely empty. "Going light" is the most expressive description given. The chicks get thinner and thinner, and eventually die. By far the greater number of chicks that die from unknown causes are victims of aspergillosis.

The disease is a fungi which may be found on dead or decaying matter, or in musty or moldy grain or litter. These fungi may be taken into the system with the food or by respiration. Not every chick is susceptible to the trouble, just as some people are immune to certain ailments. From a score of men who scooped and hauled oats where this fungi had developed, nineteen were seriously ill. The one escaped; very probably because of his superior lung power.

Medical treatment is of little or no good when the flock once becomes afflicted. We have only known of one affected chicken that lived and it never thrived. It grew to a fair size, but always had the appearance of a laggard, the plumage was dull and although a well-bred chicken it looked like a mongrel.

Prevention is the only remedy and that is not always easy. We unwittingly gave this dreaded trouble a start in one lot of chicks this spring. The prepared chick feed, which we invariably feed to the youngsters until they are five weeks old, was used. The howling mob was hungry and in desperation I searched for something to give them temporarily. A box of oatmeal that had been forgotten was found and some of the contents given to the hungry little scamps. Within twenty-four hours I saw one chick begin to show symptoms of aspergillosis. With grave misgivings the contents of the oatmeal box were examined and found to contain mold. The weather was warm and conducive to a rapid growth of the fungi and within one week half of the lot of healthy, happy youngsters was dead.

I am passing this experience on, hoping to warn others of unseen pitfalls Minnie G. Stearns.

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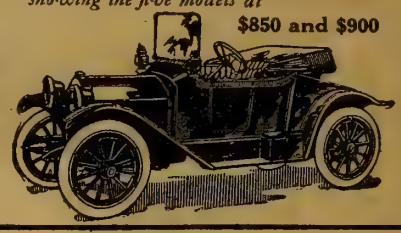

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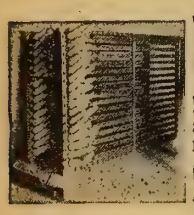

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WITH THE EDITOR.

A recent number of The Woman's Home Companion contains a tribute to the country woman which readers of this paper will enjoy.

After a statement that it has never seemed wise to The Woman's Companion to assume that the interests of the women who live in one kind of community are essentially different from those of the women who live in another (in which opinion we heartily concur) the article proceeds:

"In one way, however, the country woman is in a distinct class, and a very important one. She is pretty sure to be an expert in one or more self-supporting businesses—perhaps poultry raising, perhaps bee keeping, perhaps dairying, perhaps gardening, and almost always cooking, canning and preserving. She may even be—and often is—an expert in all of these things.

"Along with this practical knowledge of a number of wholesome occupations the country woman is, from her environment, the possessor of a resource at once so intelligent and capable that it behooves those who observe it to admire. She can hitch the horse to the buggy, and drive him, too; she can round up the cows that have broken through the pasture fence, and mend the fence; she can put out the fire in the chimney when the men folks are far afield; she can administer first aid treatment of the very best to bad burns or cuts or broken arms, as well as such minor ills as hornet stings or stone bruises; she is apt to be a pretty shrewd judge of cattle; she can make and mend her own and her children's clothes; she knows how to cure meat, to shoot a marauding hawk, to prune a rose bush, to make soap, to beat a carpet and she looks at none of these things as an adventure or a unique experience, but simply as part of the day's work.

"Her interest in politics is keen and clear. Ask her who is the sheriff of the county, the state's attorney, the county clerk, the register of wills—she will tell you and outline the circumstances of their election.

"Because she lives with the actualities of life, she is not likely to put undue importance upon non-essentials. Comfort, neatness and cleanliness, above style, are desired in her home. Her table is supplied with palatable and wholesome food neatly served. She does not worry about the lack of lace center-pieces, or monogramed linen; she knows that if she is comfortably dressed in neat, clean clothes befitting the occupation in hand and suitable to the weather she is a truly well-dressed woman. She asks, 'Will it wear well?' when she goes to buy, and she is a very astute purchasing agent, keen at a bargain, knowing exactly what she wants and what she wants to pay for it.

"There is just one phrase that fits her—'Salt of the earth.' Let us by all means put her in a class apart and yield her the respect due her."

HOME AND HOMEMAKING.

REGRET.

If only we had loved them more,
Our lost, whom love can never reach,
Who thrill not at our tenderest speech,
Nor answer, though our hearts implore.

If only for one little day,
One day of days—they could return,
How would our grateful spirits yearn
To lavish treasures on their way?

Our feet to serve them, ah, how swift!
Our hands how gentle; and our eyes
How clear to see, should shadows rise,
Or griefs their perfect gladness rift.
Too late! Come back no vanished hours;
But, living and beloved, there still
Remain sweet friends. Be ours the will
To strew their paths with thornless flowers.

EASY, BUT FATAL.

The happiness of any home can be murdered by any two people in it, each determined, daily, to have his or her own way. Riches or poverty, position or obscurity, have nothing to do with it. Home happiness is built on unselfishness and sympathy and forbearance—or else not built at all, but scattered into ruin.—Ex.

VEGETABLE WAYS.

Hungarian Carrots.—Peel and cut carrots into pieces one inch and a half in length. Cut these pieces into thin slices, and cut these slices into strips a little larger than matches. Boil them in salted water until tender. Drain off the water and add one-half cup of sugar and one-fourth of a cup of vinegar. Cook for fifteen minutes in this mixture and serve.

Pork and Turnips.—Select lean, ragged pieces of fresh pork for which there is no other use and put them on three hours before dinner with twice the quantity of turnips. Salt and pepper should be added at once and just enough water to keep them from scorching. Cook slowly all morning and the turnips will be delicious and savory.

Green Pea Souffle.—Either freshly cooked or canned peas may be used. Drain and mash them with two tablespoonfuls of butter; add a pint of milk, the well-beaten yolks of three eggs, salt and pepper to taste, and the stiffly whipped whites of the eggs. Turn into a buttered pudding dish, cover, and bake for twenty minutes, then uncover and let brown. Serve immediately before it falls.

Glazed Onions.—Choose mild onions for this way of cooking. Melt one-half cupful of butter in a saucepan, then put in as many peeled onions as will fit in without crowding. Move about until all are well-coated with butter, sprinkle with a tablespoonful of sugar, then pour over them a well-flavored soup stock. If you have no stock on hand, dissolve a little beef extract in hot water and salt well. Simmer until the onions are tender, take off the lid of the saucepan and let the stock simmer down to about a half cupful. Serve in a heated covered dish as an accompaniment to chicken.

AMONG OURSELVES.

"Variety is the spice of life" is an old wise saw, and may be a true one. We will test it a little this week by having Annabel De Forest talk about Ourselves as we have appeared in the eyes of others—a not unpleasing picture, even to Ourselves. And then having made the acquaintance of Princess Appears-To-Be, our writer will show us a picture of Princess Really-Is. These charming heroines may have come to your attention before, if so, you will doubly appreciate the situation:

"Give the boy a chance," "Give the girl a chance," has become a sort of slogan that is heard on every side. Why not go a step farther and add, "Give the farm woman a chance?" True, for the past few years there has been stereotyped on the public mind a picture of that individual so altogether charming that apparently it left nothing to be desired. So familiar has this mental prototype become, that, given a woman, an auto, a rural free delivery, a telephone and a center table covered with periodicals and immediately we exclaim, "Behold the farm woman!" The favored creature of elegant leisure, of social advantages, strawberries and cream! We are only too glad to admit that the picture is fairly true to life in many cases, but some worthy people seem to be unaware of the fact that "there are others." For this fortunate class an article, such as this would scarcely have interest. Most certainly not unless they happen to be animated by that spirit to which a great and gifted soul gave utterance when he said, "Who is weak and I am not weak?" And (I may be allowed to add) that inspiring spirit of helpfulness that so often sheds its beautiful light over the home page of our paper. That spirit of oneness that makes the whole world kin, and which must irresistably impel us to put our shoulders to the wheel when a lift is needed. If one who has intimate knowledge of farm life and who can read between the lines, could find a magic wand that, without violating the canon laws that protect the individual home from intrusive observation, would yet enable him to lift the veil a trifle he might disclose a picture somewhat different from that depicted above—with the farm woman still as a model. Like the paralytic on the brink of the healing water, how often she sees stretched before her a sunlit sea of opportunity, "so near and yet so far," into which she can scarcely dip the tip of her finger. There may (or may not) be the latest magazine, but most surely there is the dairy, the garden or the chickens. There may (or may not) be the telephone inviting to neighborly intercourse, but beyond shadow of doubt there are the insistent hourly demands of the household that are ever ringing their calls. Thus, day by day, willing, gladly, but none the less surely, she lays upon the altar of home duties her personal inclinations and needs together with many cherished dreams of self-improvement. The charm of intercourse with kindred minds by means of

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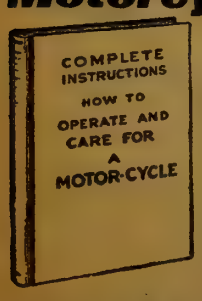

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Big Doll For You

D-L-I-
D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

PEOPLES CO.
902 Popular Bldg., Des Moines, Iowa

ENGRAVING Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

the printed page, she often comes to look upon as a real temptation, the yielding to which would be little short of disastrous to some home interest. Unquestionably it is both kind and wise to present the most sane and cheerful view of every situation, and nothing is more profitless than sighing for the unattainable, but at the same time nothing is gained by crying "Peace, peace," when there is no peace. It is true philosophy to occasionally take stock of our advantages and disadvantages, and, ofter setting them forth, fairly and squarely strike such a balance between our inward needs and wishes and outward conditions as will enable us to keep a happy contented heart while we work to better those conditions. But shutting our eyes to the obvious fact that there is room for improvement is simply to act the part of the ostrich. Of one thing there can be but little doubt. If one were asked to name the eighth wonder of the world he could safely and unhesitatingly answer. "The wife of the average farmer who performs the multitudinous tasks that wait her all hours and in all shapes; who, while caring for the physical wants of all, still finds time to minister to their higher needs, molding the tender minds, hearts and souls committed to her guidance as the potter molds the clay into forms of grace, beauty and utility; who is a true helpmate to her husband and enhancing his every blessing, sharing his every care; who takes a woman's place and does a woman's part in the community, who never wholly relaxes her grasp on the aspirations and ambitions of an earlier day; and who through it all retains her health, elasticity of spirit and a greater or less degree of her natural attractiveness." And to the man who possesses this "gem of purest ray serene" one might well say: "Prize her as the apple of your eye for she is the miracle of the twentieth century!" And the twin marvel of the age would undoubtedly be the man who understands. The man who sees the ever broadening horizon of woman's possibilities and obligations and who realizes that the solution of many problems that vex and perplex us will be helped and hastened by her influence, her spiritual insight, her uncalculating adherance to true and noble conceptions of human life; the man who perceives, if only through a glass dimly, the strivings of the complex nature that walks and works by his side, from whose heart continually goes forth a cry for closer affiliation with every force, near or remote, that tends to elevate, refine and strengthen. Such a man will loyally determine that the burden-bearing phase of her existence shall be brought into juster proportions with other essentials and that every possible labor-saving device shall be employed for the conservation of time and strength. This is one way, and a very real and practical one, in which a multitude of farm women could yet be given a chance.

And every valley shall be exalted, and the rough places shall be made plain, before the coming of——. Is there not a tendency to think that this exalting, this straightening, this smoothing, this leveling must be done by others than ourselves,—the angels, for instance!

If things are not as smooth, as straight for us as they might be, how better can we live than to lend a hand every possible time to making things better for those who are to follow us? Such action gives a persistent energy and a definite direction as well as a high tone to even the common round":

When you make fruit butters, try cooking it in the oven and save stirring so much and keep it from burning and from spattering the stove. Also after the fruit is cooked, run it through the meat grinder instead of the colander. After peeling fruit, cook the peeling and cores (if clean) with water to cover, then strain off the juice, heat and can in fruit jars. Then in the winter when a fire is necessary it is easy to make several glasses of jelly with no waste of fuel or strength as there would be in the summer when one has so much to do.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

OUR BIRD FRIENDS.

(First prize.)

We have a grove near our house which is a favorite spot with the birds for their home. There was a family of robins that I cared most about. It was because the baby robins were very tame.

One day I was sitting out on the lawn under the trees. One of the little robins that had been walking around my chair for some time, flew up on my arm and then to my shoulder and stayed there until its mother coaxed it away with a bit of food.

There is also a couple of wrens that have built their nest in a gourd that hangs on the garden fence. The gourd is about three feet long. My father cut a hole in it to get the seed out and in there they carried sticks, straws and feathers. They are about the happiest birds I have seen, as they are singing all the time, and a very pretty song it is, too.

Another pair of wrens live in the wall of the shop. They enter through a knothole.

There is a very pretty singer. It has a white breast and has a black-brownish color other places. The young ones are about the size of a young robin. I do not know as I have ever seen the older bird. It seems very tame and sings all the time. Our neighbor took it over to show it to his mother, and it would sit in the palm of his hand and sing. It will also sit on the fingers of the men and seems glad, too. I would like to know what kind of a bird this is, as I have never seen any before.

There is a nest of swallows in our horse barn, they are not very tame, as they fly away when anyone enters the barn.

Here is a list of birds that live here during the summer and some of them stay here all winter: Robin, mourning dove, crow, oriole, gold finch, crane, redbird, quail, wood-pecker, wren, sparrow, king-fisher, meadow-lark, sap-sucker, hawks, bluejay, yellow-bird, owl, blue-bird, swallow, buzzard, bobolink, chickadee, black-bird and grosbeak.

Oriole, age 13.

Advice To The Young.

(Second prize.)

We are now called young folks, but it will only be a short while before we will be classed with the grown-ups. We are most of us living a happy, joyful life, little thinking of the sorrows and the sadness that is sure to come to us sooner or later; we each wear a cheery-looking smile, and all aim to amuse ourselves to the very end of the day; we love to associate and play with one another, and to make each other happy, and as we grow older let us not forget our youthful way of living, but continue to be bright and happy and give a word of encouragement here and there.

Let us make it a rule not to talk of our troubles, but of something interesting, something bright you have heard or seen, and do not forget to wear your sweetest smile; and if you pass where anyone can see you, why, just a smile or wave the hand—it may help to brighten a lonely life.

Sometimes it is the little things that count. Christ. S. Hansen, Wis.

A Poor Chance.

(Third prize.)

There was an old hen sitting on fifteen eggs in the woodhouse. And there was also a basket near her nest with a few new potatoes in it. One day I went out to get some potatoes for dinner, and what do you think? The old hen was sitting on the potatoes. I hope she will have a nice brood of chickens. Don't you?

Brown Eyes, Ind.

Now is the time to go after the weeds that are growing on the part of the farm that is used for a public highway. It will take only a couple of hours and the satisfaction of presenting a proper "front" to the travelling public will more than pay for the work.

If the element of luck enters into farming anywhere it is in the drying of the hay crop and even with this the failure is often laid to bad luck when just a little hustle would have meant good luck and success.

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Write today for free sample and prices—mill prices, with all middlemen's profits cut off. Send size of buildings and we will furnish free complete estimate of cost. *See for yourself the big savings.*

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High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 2 years' trial at our special direct-to-you factory price of $4.95.

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Always ready for use. Placed inside the crib in the dry. Easy running, durable and strong. Elevates oats, wheat, or ear-corn, 50 bushels in three minutes.

SET IN YOUR CRIB BEFORE YOU PAY

The first successful Upright Ear Corn Elevator made—SOLD DIRECT to the Farmer. Free Catalog showing 8 styles with crib plans which save you money. Write for it today.

INTERLOCKING FENCE CO. BOX 65 MORTON, ILL.

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WANTED: A man or woman in every locality

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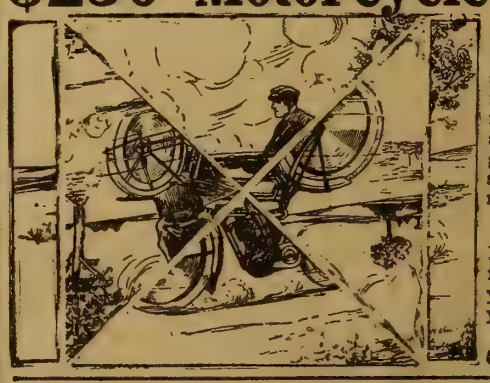
$250 Motorcycle Given Away



Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Popular Company
507 Popular Bldg. Des Moines, Iowa

OUR FASHION-DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6039 Boys' Blouse.—This blouse is a very nice design for the schoolboy. It is simple to make and very good looking. The pattern provides for choice of two styles of collar, the sailor or turn-down style. The sleeves are nicely plaited at the bottom.

The pattern 6039 is cut in sizes 4 to 12 years. Medium size requires 2½ yards of 36-inch material and ⅞ yard of 27-inch contrasting goods. Price of pattern ten cents.

6227 Draped Three-Gored Skirt.—The draped skirt is worn by everybody. This skirt has three gores and closes at the side of the front, where it is slightly draped. In the back there is a wide panel in box plait effect.

The pattern 6227 is cut in sizes 22 to 30 inches waist measure. Medium size requires 3⅛ yards of 44-inch material. Price of pattern ten cents.

5978 Misses' Dress.—This dress can be made with either the empire or regulation waistline. The skirt is cut in four gores. Linn, serge or ratine can be used to make this dress.

The pattern 5978 is cut in sizes 14, 16 and 18 years. Medium size requires 4½ yards of 44-inch material with ½ yard of 27-inch contrasting material. Price of pattern ten cents.

6063 Girls' Dress.—This dress closes at the front and may be made with long or short sleeves. The collar, cuffs and belt are of contrasting material. The frock is quite easy to make and may be constructed of wash goods.

The pattern 6063 is cut in sizes 6 to 12 years. Medium sizes requires 3⅛ yards of 36-inch material and ¾ yard of 27-inch contrasting material. Price of pattern ten cents.

6240 Girl's Dress.—This dainty frock is made to slip on over the head, it has no other opening. The neck is trimmed with a wide collar and there is a very deep yoke, if desired. The sleeves may be long or short and the inner shield at the neck used or omitted.

The pattern 6240 is cut in sizes, 4, 6, 8, 10 and 12 years. Medium size requires 3 yards of 36-inch material with ⅞ yard of 27-inch contrasting goods to trim. Price of pattern ten cents.

6097 Girls' Dress.—This tunic dress gives a chance for a highly dressy frock. The dress is complete without the stole panel of front and back. Front and back are made with a simple waist to which the sleeves are attached and which is joined to the box-plaited skirt. This style is excellent for linen, pongee silk and even for simple ginghams.

The pattern 6097 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 3⅝ yards of 36-inch material. Price of pattern ten cents.

GOOD LUMBER CHEAP
Posts, Cement, Mill Work.
Pay when you unload and find satisfactory.
FARMERS LUMBER CO.
24th & Boyd Omaha Neb.

PATENT ATTORNEYS
ORWIG & BAIR
Crocker Building, Des Moines, Iowa

Rist's Seed Wheat.

With this issue of The Homestead, Frank J. Rist, Humboldt, Neb., is starting an advertisement in which he is offering The Homestead readers seed wheat of the University No. 42 strain. This variety of wheat is the pure Turkey Red and in thousands of cases has proven that it is the best winter wheat for the corn-belt country. This particular strain was developed at the Nebraska Agricultural College at Lincoln, and was called variety No. 42. This strain was developed from a single head and was the best yielder, also the best colored and nicest berry of the 1,000 plants started with. Only one or two other varieties were so heavy yielders and they did not have the stiffness of straw, nice color of berry and other attractive features that commended No. 42. Mr. Rist is a graduate of the Nebraska Agricultural College, and was quick to see the advantages of this strain and was about the only grower to take seed of this strain. Consequently he has about the only available supply of seed. Mr. Rist is an enthusiactic seedsman. Has made the business of plant breeding and seed production a life work and the writer is of the opinion that better seed stock will be out of the question, hence we advise writing Mr. Rist at once, and placing an order for some of this seed. The prices are moderate. Considering the care and time taken to produce these seeds, they are positively cheap. This strain of wheat has in many instances yielded from five to ten bushels more than the ordinary good wheat sown over the country. So far as reports have come to Mr. Rist, there has not been a single case where this wheat has not made a fair average over the ordinary good wheat and the price charged is little, if any more, than most seed dealers will ask for the ordinary good stock. Mr. Rist is not a dealer, he is a grower, and also president of the Nebraska Pure-Bred Seed Growers' Association and all seeds shipped from his farm will be inspected by a competent judge from this association. Write Mr. Rist immediately for full information concerning this seed wheat and mention The Homestead when doing so.

TIRES AND TUBES AT CUT PRICES

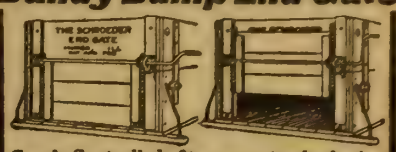
We are offering now to motor owners all over the United States standard make tires at the lowest prices ever heard of. These are not a lot of old nameless tires. Every one is a well-known make, such as Fisk, Diamond, Goodyear, Empire, etc. Take your choice. This partial list gives you some idea of the reductions:

30x3	$10.10
30x3½	14.20
32x3½	14.90
33x4	21.00
34x4	22.90
36x4½	25.00

Write today for complete price list and money-saving circular.

NATIONAL TIRE CO.
1621 GRAND, KANSAS CITY, MO.
Dept. H. Ask any bank

Dandy Dump End-Gate



Crank-Controlled; fits any standard size wagon. No extra bolts or attachments. Regulates the flow of grain. Saves your time and breakage. Write for our free crib plan.
MINIER END-GATE COMPANY, Dept. 120, MINIER, ILL.

When writing to advertisers please mention The Homestead.

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842 ACRES BLACK MO. SOIL
$75.00 PER ACRE
800 ACRES second bottom, black loam, no rocks, all level, every foot tillable; in corn, wheat, clover and blue grass this year; 40 acres good timber; good railroad station and schoolhouse on farm; five sets improvements, two extra good; plenty of water, fenced and cross fenced, 10 miles from Pleasant Hill, 40 miles from Kansas City, macadam roads nearly all the way; best high-class farm bargain we have ever offered. Come at once, we guarantee this description accurate.
THE JONES LAND AND INVESTMENT CO., (Inc.) PLEASANT HILL, MISSOURI.

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FARM bargains in Taylor and adjoining counties. Safe, sure, large returns. Great dairy section. $25 to $75 an acre buys good farms. "The grass land of America." Very liberal terms. LOEB-HAMMEL REALITY COMPANY (not inc.), OWNERS, MEDFORD, WIS. Write today for free literature. Also get our HOUSE-FREE offer on unimproved land. We sometimes take in property in part payment

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FARMS WANTED We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 33 Palace Bldg., Minneapolis, Minn.

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IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

FOR SALE—Eastern North Dakota, slightly rolling quarter section; no improvements. One mile from county seat, black soil; town has 5 elevators. Inquire Miss M. O. Roskoten, 211 South Jefferson Ave., Peoria, Illinois.

NEBRASKA LAND at $7.50 per acre. 1,280 acres improved ranch four miles from R. R. Cuts 350 tons. Must sell quick. Write Emil Lucke, City Nat'l. Omaha, Neb.

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address Hall's Farm Agency, Owego, Tioga Co., New York.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

2,080 ACRES, 200 miles Omaha. 180 acres alfalfa, 90 acres corn, Fine meadow. Hard soil. Fine improvements. Only $30. J. A. Abbott, Omaha, Neb.

23,120 ACRES state land for sale in the Judith Basin of Montana. Fine land for dairying, grain raising and stock. Write to Commercial Club, Stanford, Montana, for particulars.

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

MISSOURI FARM LANDS. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

Carey Act Land Opening

Beginning August 7, 1913. 3,600 acres in Bear River Valley, Utah. Low price, easy terms and long time. Also 9,000 acres of deeded land in the Neponset Tract to be sold at low prices, easy terms, long time.

Write for complete information. Summer Tourist fares (1st class) daily to, and including, Sept. 30, 1913, and Homeseekers' fares (second class) 1st and 3d Tuesdays of each month.

R. A. SMITH,
Colonization & Industrial Agent, Union Pacific Railroad Co., Room 118, Union Pacific Bldg., Omaha, Nebraska.

LANDOLOGY FREE A magazine giving the FACTS in regard to the land situation. 3 months' trial subscription. If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it "Personal" and say, "Mail Landology and all particulars free."
Address: LLOYD M. SKINNER, Gen. Mgr.
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TO PURCHASE LANDS IN SOUTHERN MINNESOTA. Send for our price list of our fine improved southern Minnesota corn lands. Come and see what we can do in raising corn and small grain. You will be infatuated. New Richland Land & Loan Co., New Richland, Minn.

160-ACRE FARM
JOINING Kellerton, Iowa; 12-room house, new barn, large orchard, plenty of water; 120 acres level; telephone, rural route and electric light line; good terms, price $135 per acre.
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Southern Minnesota Corn Farms
FIVE improved farms in Blue Earth county, 25 miles from the Iowa line. Two 120 acres, two 160 acres, one 400 acre. Prices cheap, terms easy, good reasons for selling.
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LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

FOR SALE
RICH PRODUCTIVE 160 acre Red River valley farm, good neighbors, healthy country, fine markets and a bargain at $5,000. Terms, $1,500 cash, balance easy. FRANK P. CLEVELAND, Owner, 1279 Adams Express Building, Chicago, Ill.

100 CHOICE farms in the garden spot of Southern Minnesota, where corn is king. Price $60.00 per acre and up. Prices advancing rapidly. Come now. Free List. The Paffrath-Schmidt Company, Springfield, Minnesota.

THE finest 240 A. in eastern Kan., well imp., to exchange for a small farm in north Mo. or Ia. address SEWELL LAND CO., Garnett, Kan.

FOR SALE—Two Eighty-Acre Tracts, unimproved; one about 20 per cent timber; in rice district, Ark. C. O. ROSKOTEN, Peoria, Ill.

ARKANSAS land. Low price, Easy Terms. Map and booklet free. Geo. R. Lochrie, Gifford, Ark

Hanna's Short-horn Sale.

The dispersion sale of D. R. Hanna's Cottage Hill herd of Short-horn cattle at Chicago, Ill., July 29th and 30th, was a very successful event. There were 104 head of cattle sold for $31,790, an average of $304, and when one takes into consideration the fact that it was a dispersion sale without any sort of a guarantee back of the cattle, the result is very convincing evidence of the strong demand for beef cattle. The attendance was very large, not only of well-known breeders, but there were many new faces at the ring side and the list of buyers contains many names not heretofore associated with the Short-horn breed. The cattle were widely distributed, going to Iowa, Michigan, Indiana, Ohio, Virginia, Kentucky and Mississippi. Much interest centered around the sale of the herd bull, Villager, his sons, Village Denmark and Village King, and the imported bull, Champion of Scotland. H. O. Weaver, of Uppermill Farm, Wapello, Iowa, was the buyer of Villager at $3,550. This was the top price of the sale. The contending bidder was F. W. Harding, of Anoka Farms, Waukesha, Wis. Mr. Weaver also purchased Imp. Champion of Scotland at $1,750 and took a number of the best breeding cows in the offering. John Garden, who has been so long in charge of the Hanna herd, is to become associated with Mr. Weaver at Uppermill Farm, and the public may confidently look for the production of some very high-class cattle at this breeding establishment. Village Denmark went to F. W. Harding, of Anoka Farms, at $1,300 and the same gentleman was the buyer of Village King at $400. E. M. Hall, Carthage, Mo., secured the yearling show bull, Village Flash at $750, at which price he was a decided bargain. The top for females was $730, paid by Anoka Farms for the yearling show heifer, Village Flora 2d, and the same buyer took Village Flower 2d, another yearling daughter of Villager, at $660, and a full sister calved in January, 1913, at $500. The imported cow, Augusta 83d, with a bull calf at foot by Villager, went to F. C. Barber, Skidmore, Mo., at $510, and W. B. Bonnefield, Ottumwa, Iowa, paid $475 for the three-year-old Duchess of Gloster 42d with a bull calf at foot. Robert Failon, Neponset, Ill., secured good value in the two-year-old heifer, Heather Belle 5th at $425. Frank Toyne, Lanesboro, Iowa, was a liberal bidder and buyer as was also A. E. Stevenson, Port Huron, Mich.; Bellows Bros., Maryville, Mo.; W. W. Vaughn, Marion, Iowa; J. H. Warren, Delaplaine, Va. Cattle were secured by the agricultural colleges of Iowa, Kansas and Ohio and Dan Coombs purchased several head for Greenfield Plantation, Greenfield, Miss., where he and his brother are establishing a herd of Short-horn cattle. The entire sale was conducted in a very satisfactory manner by Manager John Garden. Cols. Wood, Jones and Reppert were the auctioneers and the following is a detailed list of the sales:

FEMALES.

Arabella, calved 1910; Uppermill Farm, Wapello, Iowa	$ 230
Imp. Flower Girl 12th, calved 1910; W. J. Fager, Lena, Ill.	170
Imp. Butterfly Maid, calved 1905; Uppermill Farm	305
Butterfly Queen, calved 1907 and b. c.; E. Ogden & Son, Maryville, Mo.	310
Lady Margaret, calved 1910; Greenfield Plantation, Greenfield, Miss.	220
Emblem's Carnation, calved 1910; Uppermill Farm	275
Heifer calf, calved 1912; F. E. Jackson, Hurley, S. D.	295
Belle of St. Cloud, calved 1906 and b. c.; E. J. Thompson, Hurley, S. D.	325
Flynn Farm Missie, calved 1907 and b. c.; Bellows Bros., Maryville, Mo.	305
Village Flower 2d, calved 1912; Anoka Farms, Waukesha, Wis.	660
Heifer calf, calved 1913; Anoka Farms	500
Village Baroness 3d, calved 1912; Frank Toyne, Lanesboro, Iowa	375
Rosetta, calved 1909; A. L. Robison & Sons, Pekin, Ill.	105
Sinnissippi Butterfly, calved 1905; A. E. Stevenson, Port Huron, Mich.	205
Spicy Lass, calved 1909; A. O. Hoopengarden, Bronson, Mich.	180
Beauty Butterfly, calved 1904, and b. c.; Bellows Bros.	270
Flora 86th, calved 1908, and b. c.; D. Fuson & Son, De Graffe, Ohio	320
Ruby of Pine Grove 9th, calved 1905, and b. c.; C. P. West & son, Bloombingburg, Ohio	140
Primrose 3d, calved 1912; W. W. Washburn, Crawfordsville, Ind.	160
Scotia 4th, calved 1906, and b. c.; J. McCord, Orland, Ill.	330
Augusta 95th, calved 1906, and b. c.; J. H. Warren, Delaplaine, Va.	210
Silver Bell, calved 1902, and b. c.; J. S. Bates, Smithfield, Ky.	135
Royal Rose, calved 1906; Ewing Bros., Pontiac, Ill.	255
Roan Mina 2d, calved 1907; Bellows Bros.	175
Glenbrook Butterfly, calved 1904, and b. c.; Bellows Bros.	215
Duchess of Gloster 2d, calved 1910 and b. c.; Anoka Farms	175
Adelaide 2d, calved 1909, and b. c.; Uppermill Farm	325
Sultana's Secret, calved 1906, and and b. c.; Uppermill Farm	310
Lucy Ramsden 2d, calved 1909, and b. c.; Greenfield, Plantation	245
Northern Bessie, calved 1905; C. E. Gibbs, Klemme, Iowa	130
Floritta C. 2d, calved 1906; J. S. Bates	180
Merry Bangle 2d, calved 1906 W. W. Vaughn, Marion, Iowa	150
Augusta 97th, calved 1911; Greenfield Plantation	115
Village Queen, calved 1907, and b. c.; Kansas Agricultural College, Manhattan, Kan.	280
Nellie, calved 1907; J. S. Bates	210
Boyne Lady 2d, calved 1911; Gay Landon & Son, Lancaster, Mo.	150
Blythesome Girl 4th, calved 1907, and b. c.; Uppermill Farm	380
Imp. Belle of Ordens, calved 1901, and b. c.; Geo Allen & Son, Lexington, Neb.	510
Lady Dorothea 4th, calved 1906; Kansas Agricultural College	230
Vanity 8th, calved 1906; Frank Toyne	165
Vanity 9th, calved 1908; Bellows Bros.	210
Royal Girl 4th, calved 1906; W. W. Vaughn	105
Blythesome Girl 5th, calved 1909, and b. c.; Uppermill Farm	405
Sunny Blink 8th, calved 1908; Carpenter & Ross, Mansfield, O.	335
Miss Mayflower, calved 1907; Thos. Stanton, Wheaton, Ill.	130
Imp. Carnation Queen, calved 1901; C. P. West & Son	100
Fairy Morning, calved 1901, and b. c.; A. E. Stevenson	430
Evening Baroness 2d, calved 1912; Uppermill Farm	245
Adelaide C., calved 1904; F. C. Barber, Skidmore, Mo.	170
Rosalie 4th, calved 1910; Greenfield Plantation	205
Grassland Violet 3d, calved 1908; Uppermill Farm	330
Sultan's Hope, calved 1910, and b. c.; C. P. Tutt, Bunceton, Mo.	150
Imp. Spicy Clara, calved 1901; A. L. Robison & Sons	320
Clara 3d, calved 1909, and b. c.; J. W. Warren	505
Fancy 7th, calved 1906; A. E. Harlan, Alexandria, Ind.	105
Imp. Marigold 4th, calved 1900, and b. c.; C. A. Branson, Cadiz, Ohio	170
Whitehall Wimple, calved 1902; Greenfield Plantation	200
Missie 9th, calved 1907; A. L. Robison & Sons	325
Ruth Rustic, calved 1902, and b. c.; Ohio Agricultural College, Columbus, Ohio	410
Rustic Ruth, calved 1908; Bellows Bros	215
Missie 2d, calved 1906, and b. c.; J. H. Warren	204
Highland Arabella, calved 1904; C. E. Gibbs	100
Village Clara, calved 1911; Bellows Bros	230
Flower Girl 14th, calved 1908; A. E. Stevenson	215
Imp. Augusta 83d, calved 1901, and b. c.; F. C. Barber	510
Lavender Rose, calved 1904; Geo. H. Burge, Mt. Vernon, Iowa	225
Village Luston, calved 1910; Bellows Bros	110
Village Flora, calved 1911; Chas. Weir, Rio, Ill.	180
Lancaster 4th, calved 1911; Frank Toyne	215
Baroness 2d, calved 1911; Frank Toyne	205
Heather Belle 5th, calved 1910; Robt. Failon, Neponset, Ill.	425
Duchess of Gloster 42d, calved 1909, and b. c.; W. B. Bloomfield, Ottumwa, Iowa	475
Village Victoria, calved 1911; Fairview Farms, Tama, Iowa	360
Village Lassie 2d, calved 1911; Frank Toyne	320
Village Flower, calved 1911; C. P. West & Son	110
Village Adelaide, calved 1911; Fairview Farms	125
Countess 3d, calved 1911; W. W. Washburn	365
Anona, calved 1911; W. J. Bonne-Agricultural College, Ames, Bros.	150
Wimple 4th, calved 1912; Uppermill Farm	125
Augusta 84th, calved 1912; F. E. Jackson	375
Rustic Belle, calved 1912; Iowa field	195
Village Lucy, calved 1912; W. W. Washburn	160
Rosetta 3d, calved 1912; Ewing Iowa	190
Augusta 98th, calved 1912; Greenfield Plantation	180
Fancy 10th, calved 1912; Bellows Bros.	145
Glenview Blossom, calved 1912; A. E. Stevenson	180
Secret, calved 1912; A. L. Robison & Sons	150
Butterfly Rose 2d, calved 1912; J. S. Calloway, Smithfield, Ky.	150
Village Adelaide 2d, calved 1912; Frank Toyne	235
Village Flora 2d, calved 1912; Anoka Farms	730
Village Queen 4th, calved 1913; F. E. Jackson	325

BULLS.

Imp. Villager, calved 1906; Uppermill Farm	$3,550
Champion of Scotland, calved 1911; Uppermill Farm	1,750
Village Denmark, calved 1910; Anoka Farms	1,300
Imp. Gold Buckle, calved 1912; C. P. West & Son	160
Village King, calved 1910; Anoka Farms	400
Denmark 8th, calved 1913; C. P. Tutt	175
Village Mystic, calved 1912; J. H. Warren	200
Village Flash, calved 1912; E. M. Hall, Carthage, Mo.	750
Village Rex, calved 1912; Gay Landon & Son	215
Village Ruler, calved 1913; W. W. Vaughn	190

SUMMARY.

92 females	$22,880; average	$244
12 bulls	8,860; average	738
104 cattle	31,790; average	304

Iowa State Fair and Exposition
DES MOINES, IOWA, AUGUST 20TH TO 28TH

Some of the Farm Teams in the Exhibit at the Iowa State Fair Last Year.

Premiums $76,000 **Race Purses $15,700** **Exhibits 800 Car Loads**

Bigger, better, more complete than ever. The largest premium offering in the history of the fair is calling forth more and better exhibits.

Most famous breeding districts of the world are searched by Iowa State Fair exhibitors for their best animals. All of the most successful live stock breeders show at the fair.

Greatest live stock exhibition in the world at the Iowa State Fair. The annual exhibition of live stock from the world's most famous breeding districts.

Most popular race meet in the middle West. Purses for the races this year total $15,700, the largest sum ever offered for the state fair race program, the first of the big fall race meets.

An ideal outing and summer school. Better than any short course. Object lessons in the most successful methods of agriculture and live stock breeding.

Ideas gained can be cashed into dollars. The wide-awake visitor gets new ideas which he can later turn to most profitable account. Lectures, demonstrations, something of profit for every member of the whole family.

Sixty acres in farm machinery. The only way the farmer can keep in touch with the wonderful advancement in machinery, so vital to the conduct of his business is to attend the fair.

A complete exhibition full of inspiration, recreation, instruction. A special program every day. Unusual opportunities for education and amusement.

"Old Mexico," big night show, spectacular and exciting. Horse show five nights at the pavilion. Thrilling specialty acts. High hurdling horses. Four bands of music. Great fireworks display.

C. E. CAMERON, Pres., Alta, Iowa **AUGUST 20th-28th** **A. R. COREY, Secy., Des Moines, Iowa**

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 13, S. F. Lockridge, Greencastle, Ind.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill.
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16-17, C. A. Saunders, Mgr., South Omaha, Neb.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Aug. 29, George Leigh & Wm. George, Aurora, Ill.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros., Cambridge, Neb.
Feb. 24, J. B. Ashby, Audubon, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 1, J. R. Horswell, Estherville, Ia.
Oct. 15, Escher & Ryan, Irwin, Iowa.
Oct. 16, John Cash, Jr., Parnell, Iowa, sale at Williamsburg, Iowa.
Oct. 28, Combination Sale, Chicago, M. A. Judy, Mgr.
Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.

Percheron Horses.

Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.

Poland China Swine.

Aug. 20, Williams Bros., Villisca, Ia.
Aug. 22, A. H. Windom, Nodaway, Iowa.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 16, Fred Sievers, Audubon, Iowa.
Sept. 17, L. R. McClarnon, Braddyville, Iowa.
Sept. 24, E. W. Kreischer, Mt. Vernon, Iowa.
Sept. 25, Ring Bros. and A. G. Miller, Newton, Iowa.
Sept. 26, J. H. Kope, Carlisle, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 3, H F. Dunn, Clarinda, Iowa.
Oct. 4, Frank Ranier, Logan, Iowa.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, S. C. Wyckoff, Kellerton, Iowa.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, A. Kool, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Frank Pelzer, Marne, Iowa, sale at Atlantic, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Howers, Aurora, Neb.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 14, Frank Roberts, Dexter, Iowa.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 17, A. M. Joy, Herman, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 8, J. L. Naiman, Alexandria, Neb., at Hebron, Neb.
Nov. 18, John S. Barnard, Nelson, Neb.
Nov. 12, E. V. Waugh, Greeley Center, Neb.

Duroc Jersey Swine.

Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 8, Wm. Reed, Rose Hill, Iowa.
Oct. 9, H. W. Lineweaver, So. English, Iowa.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, S. W. Stewart, Kennard, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 23, Barker Bros & Crowell, Riverton, Iowa.
Oct. 24, Day & Welsh, Hepburn, Iowa, sale at Villisca, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 29, Economy Stock Farm, Shenandoah, Iowa.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 3, A. C. Mills, Spencer, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Oct. 30, W. P. Doolittle, Woodland, Mo.
Feb. 12, J. H. Stewart, Dickens, Iowa.

FIELD NOTES.

Readers of this paper who think of buying Shetland or Welsh ponies are directed to the advertisement of T. S. Simpson & Sons which appears on page 24 of this paper. The Simpson herds are large and contain many ponies of exceptional character as well as those of the cheaper sort. Catalogs or descriptions may be obtained by writing to T. S. Simpson & Sons, Aurora, Ill.

Thirty choice Chester White spring boars are advertised at bed-rock prices by A. C. Orme, Nodaway, Iowa, on page 24.

S. F. Lockridge, Greencastle, Ind., a veteran breeder of Short-horns and who has produced many cattle of note, will sell a draft of fifty head from his herd at Chicago, Ill., on October 13th. Particulars will appear later.

An advertisement of the Edwards steel shingle on page 9 informs our readers fully on the importance of good steel shingles and the qualities of the Edwards. Get prices and descriptions from the Edwards Mfg. Co., 890 Lock St., Cincinnati, Ohio.

Now that threshing has begun in good earnest the importance of the Dandy pump end gate advertised on page 15 should be fully recognized The advertisement tells about it. Special prices may be learned by writing to Minier End Gate Co., Dept. 130, Minier, Ill.

Farmers have been a little slow to realize the fact that a good spring on a farm wagon has its uses. It makes an easier running wagon, saves horses and saves the wagon. The Harvey Bolster spring advertised on page 11 can be attached to any wagon. Write for prices and descriptions. Address Harvey Spring Co., 734 17th St., Racine, Wis.

The hinged door silo advertised on page 10 is presented with the argument that the door arrangement will cut off one-half of the labor at feeding time. A booklet or catalog giving reasons and special prices may be obtained by writing to Woods Bros. Silo Mfg. Co., Lincoln, Neb., or either of the addresses given in the advertisement.

An advertisement of the Sykes Metal Lathing & Roofing Company appears on page 14. It announces the advantage of Sykes galvanized or painted roofing when obtained direct from the mill. Free samples may be obtained without cost. At the same time other information of intense interest to builders will be forwarded. Address the Sykes Metal Roofing, Co., 520 Walnut St., Niles, Ohio.

The good, old Fairbanks scales advertised on page 6 have fulfilled their purpose on farms of the United States for a great many years and they are today just as valuable as they ever were. They are made on the most approved plans of durable materials and are absolutely accurate. For low prices ask for catalog No. Z F 603, Fairbanks, Morse & Co., 902 South Wabash Ave., Chicago, Ill.

There doesn't seem to be much use in going into detail in the matter of the big Montgomery Ward & Company advertisement that is to be found on page 2. It tells its own story. The new catalog spoken of may be obtained free by filling out the coupon in the advertisement and mailing it to Montgomery Ward & Company, Chicago, Ill., or either of the addresses named in the advertisement.

It is no use to spend time and labor in raising a grain crop and then not house it in such a manner as to prevent loss. The advertisement of the Northfield steel bin on page 8 shows how perfect protection from loss and from rats may be given. The bin is durable, convenient and is sold at an economical price on a thirty-day trial. For catalog, prices and easy terms, address Northfield Iron Co., 118 Water St., Northfield, Minn.

From the time when farmers first began to raise corn the work of shifting from the wagon to the crib has been trying, man killing and time killing. Now we have such machines as the Sandwich farm elevator which will do all this work automatically and in a few minutes, thus saving the time of the huskers and their muscle as well. The Sandwich is advertised on page 6. The manufacturers have published a free book describing it fully and illustrating its advantages. Write for this book to Sandwish Mfg. Co., 170 B. St., Sandwich, Ill.

It happens quite frequently that the farmer who jumps on a job quickly and gets it over with is ready for another one that will make him money. One of the best ways of following this plan is to own a Hart-Parr Oil tractor such as is advertised on page 6. A one-man plowing outfit is capable of doing a lot of money-making work in the fall season when most farmers are idle. How it is done and why it is done and why the Hart-Parr Oil tractor is the machine for it may be learned in the catalog, for which write to Hart-Parr Co., 228 Lawler St., Charles City, Iowa.

Carl A. Rosenfeld announces his herds of Aberdeen Angus cattle and Poland China hogs in a manner that will be interesting to breeders and farmers who need animals of the breeds named. The Rosenfeld herd of Aberdeen Angus cattle scarcely needs commendation from us. It was established on the basis of the best blood obtainable, and as Mr. Rosenfeld is a caretaker of unusual ability and a good and judicious culler he has now in his pastures a lot of cattle that might please the most critical buyers. In particular there are some fine young bulls that he will sell at quite reasonable prices. When it comes to Poland China hogs there is something worth while on the Rosenfeld farm. They were selected because of size and quality and have been bred along the same lines until they are just as good as the breed affords. He has spring and fall boars to dispose of and as the number is limited buyers of the best sorts should investigate without further delay. Both herds will be on exhibition at the coming Iowa State Fair. For prices, descriptions or other information write Carl A. Rosenfeld, Kelley, Iowa. See the advertisement on page 22.

Some splendid fall and spring Duroc Jersey boars are advertised for sale by Fred Swan, Missouri Valley, Iowa, on page 23.

Jesse Binford & Sons, Liscomb, Iowa, write as follows: "We are asking very low prices on Short-horn bulls. Anyone needing a bull will do well to write or visit us. One of our recent sales was a bull to Senator Work, of Minnesota, who maintains one of the large herds of the Northwest.

Frank Fortmann, Dyersville, Iowa, makes a change in his advertisement on page 12 announcing that he will close out his entire flock of Single Comb White Orpingtons in the next thirty days. There are 250 birds in all and they will be sold singly or in lots to suit purchaser, at most reasonable prices.

In Indiana Silo Company advertised on page 10 makes it a point to have a sufficient supply of silos on hand to fill the orders of those who are late in making up their minds to buy. Catalog, descriptive matter and other information may be obtained by writing to the Indiana Silo Co., 521 Indiana Bldg., Des Moines, Iowa, or 521 Silo Bldg., Kansas City, Mo.

Henry Lefebur , Fairfax, Iowa, sailed from New York on July 29th for Belgium, for his regular fall importation. He will go to France for twenty Percheron stallions and bring them with sixty Belgian stallions and twenty Belgian mares, making 100 head all told. Henry Lefebure has by continuous dealing with his patrons, built up a trade that is equaled by but few in America. See page 24.

J. R. Horswell, breeder of Aberdeen Angus cattle, Estherville, Iowa, announces a dispersion sale to take place October 1st. There will be 24 Blackbirds, 20 Prides, 13 Queen Mothers, 10 Torjan Ericas and 12 Lady Fannies. Two good herd bulls will be included. Later details will be given in these columns.

W. Z. Swallow, the veteran Poland China breeder and proprietor of the Pioneer herd, at Waukee, Iowa, places an advertisement on page 22 in which he announces that he will be at the Iowa State Fair with a collection of spring pigs of the usual quality. This makes the forty-ninth consecutive year in which the Pioneer herds have been represented at the Iowa State Fair. Mr. Swallow invites his old patrons and all who want good stock to call and inspect those to be found in pens 1, 2 and 3.

The John Deere manure spreader in its completed and perfected form is illustrated in a big advertisement on page 7. The John Deere is easy to load. It has big drive wheels, steel frame and mounted beater, and a simplicity which does away with all the trying difficulties that arises from a machine that is intricately built. The John Deere spreader book tells why the John Deere is the best in the field as well as the cheapest. Write for it asking for Book Y-27. Address request to John Deere Plow Co., Moline, Ill.

A. M. Joy, Herman, Neb., one of the well-known Poland China breeders of eastern Nebraska, will make a public sale of Poland Chinas on October 17th, and he will have a splendid offering for that occasion. Andy has a splendid herd and he is one of the best feeders and caretakers in the state. He never fails to have them in good shape when it comes sale time and you can just put it down that you will see a great bunch of boars and sows in his October sale. Remember the date and make it a point to attend his sale.

The farmer who has a good platform scale and weighs his produce before going to market has an advantage in that the buyer is compelled to believe the farmer in the matter of weights. It is unfortunate that conditions make it necessary for every farmer to protect himself in this manner. It oftentimes happens that a farm scale will pay for itself in savings in a single year. Better learn all about the McDonald Pitless scale advertiseed on page 7 getting the information from the Moline Plow Co., Dept. 11, Moline, Ill.

The season for the selection of seed corn will be here in a very short time. As the proper drying and care of corn has an important influence on its growing properties every means should be taken to have it properly cared for at gathering time. The Whiteworth Corn Dryer illustrated in the advertisement on page 7 is a device by which seed corn may be saved to the best advantage. It dries evenly and keeps each ear separate. It is very cheap and may be had at a special price which may be learned by writing to Champion Mfg. Co., Box 4358, Cedar Rapids, Iowa.

F. Bunker, Kilbourn, Wis., breeds double standard Polled Durham cattle and advertises them on page 20 of this paper. Under recent date he writes, saying: "Since February 1, 1913, I have sold from Bunker Hill Farm over fifty head of registered Polled Durham cattle. This month ten head have been shipped, two going to Wisconsin and eight to Nebraska. I now offer for sale four bulls from eight to twenty months of age. Two of these are the equal of anything we have yet produced. One is a roan nine months old and the other a solid red eleven months old. These should go to head pure-bred herds or be fitted for the fall show rings. Those wanting good bulls or cheaper ones can also find some of that sort here. If you come soon we can yet spare a few young Polled Durham females. They have been tuberculin tested, registered and are all right." This herd is one in which our readers may put confidence. Address inquiries to F. Bunker, Kilbourn, Wis.

High-class Galloway bulls, cows and heifers, all strong in the best blood known to the breed, are for sale at satisfactory prices by James P. Sheaffer, Media, Ill., whose advertisement appears on page 21.

S. I. Welch, Cherokee, Iowa, advertises two Duroc Jersey herd boars on page 20. One of these is a very large, smooth yearling, with good head, well-formed head, full ham and excellent feet. The other is Red Col., an extra large two year old with a rainbow back, short dished face and very heavy ham. He is a grandson of Prince of Cols., and also of Tip Top Notcher. He is a breeder of unusual merit. For special prices to close them out quickly address S. I. Welch, Cherokee, Iowa.

Col. D. H. Cunningham, Wayne, Neb., starts an announcement in this week's paper on page 21. Colonel Cunningham is a graduate of the Animal Husbandry Department at Ames, and has had eight years experience in conducting live stock sales. Those of our readers who contemplate holding public sales during the coming season will do well to write to Colonel Cunningham, opposite the Citizens National Bank, Wayne, Neb., for dates and terms, kindly mentioning this paper.

J. C. Wilkinson, Colfax, Iowa, has for sale Shropshire sheep both male and female and of all ages. His advertisement will be found on page 19. There are mature rams, two year olds, yearlings and lambs. Write him for prices or call at his farm. Mr. Wilkinson has usually made an exhibit at the Iowa State Fair, but this year finds the condition of his farm work such as to prevent him from giving an exhibit the necessary time and attention. He will make reasonable prices.

J. M. Williamson, Des Moines, Iowa, made a wonderful showing with his Single Comb White Leghorns at the state fair in 1912. He only made fourteen entries in chicks and took first or second on every bird, first and second on cockerel, first and second on pullet, first and second on pens. All the winners were in his breeding pens this season. Those wishing new blood would do well to look his birds over. He writes: "Judge J. L. Todd was out to our place on August 1st and made the remark that in all his twenty-four years of judging, both at fairs and poultry shows and the thousands of fine flocks he had seen while doing private scoring, he had never seen as fine a lot of 1,200 birds that would come up to them or that averaged as high a score as they would. Seeing is believing. You are invited to come and see them." See advertisement on page 12 of this paper.

The dryness which has affected many parts of the land this year has illustrated the need of a system of cultivation which would save moisture from the immense evaporation and turn it to the growing of crops. The advertisement of the Spalding Deep Tiling machine on page 12 presents a method of plowing which will do away with much dry season danger. One farmer, Fred Bossen, Platte, S. D., bought a Spalding Deep Tiling machine and on July 3d wrote concerning it, saying: "We have had a dry spell lasting five weeks. Taking everything into consideration, alfalfa, spring and fall grain on deep-tilled soil are good. They are at least 50 per cent better than the same crops in shallow-plowed ground. The corn on deep tilling is far ahead of anything around here. The Spalding is particularly valuable to potato raisers." A book which illustrates and describes this machine fully may be obtained by writing to Gale Mfg. Co., Spalding Dept. 68, Albion, Mich.

Hansen's Holsteins.

Hans Hansen is the type of farmer who sees a chance to succeed and is willing to risk his time and money to make a success of his chosen line. Mr. Hansen's herd now consists of thirty-seven pure-bred Holstein-Friesian females. These have been bred mostly to spring Brook De Kol II, that has thirty A. R. O. daughters. The balance of the herd is bred to King Pontiac Dorinda, whose dam held a record of 16.5 pounds as a three year old. Mr. Hansen has three pure-bred bull calves of these strains of blood, which he will dispose of shortly. The farm is located practically in the city of Lake Mills, and is one of the interesting spots of that most interesting city. For any information write to Hans Hansen, Lake Mills, Wis.

Shanks Duroc Jersey Boars.

With this week's issue we begin the advertisement of W. N. Shanks, Worthington, Minn., who owns one of the greatest herds in Minnesota and the Northwest. When we say this we know whereof we speak, because we have not only seen his herd as well as the others and we know what he has been buying. We never knew Will Shanks to buy a poor one, and if you will only inspect his herd he will show you some great boars and one of the greatest collections of brood sows that you ever got your eye on. He has 170 head of spring pigs and it is a great collection. These are bred right and they are as good as you have seen this year. Many of these are sired by Chief Model, a son of the great Golden Model. This boar was a junior champion at Des Moines in 1912, so you may know he is some boar. His pigs are doing fine and he has some splendid spring boars by him for sale. Another boar he has been using is Model Chief's Last, and he has been a splendid breeding boar in his herd, and he also has some good pigs by him. The fall boars that he has for sale and he has some of the best we have seen this season are sired by old Model Chief 2d and Crimson Wonder Again. You cannot go wrong on these boars as they are all right and you had better write Mr. Shanks about them or go

and see them for yourself. When corresponding with him kindly mention The Homestead.

Large Holsteins.

The Holstein herd of C. S. Large, Oakfield, Wis., is one of great promise. His sire is of the De Kol strain, being Madam De Kol's son. This cow is one to be proud of and great things are expected of her granddaughters and grandsons.

Kreitzberg's Duroc Boars.

Twelve good fall boars and twenty-five very choice spring boars are advertised for sale by Lewis Kreitzberg, Griswold, Iowa, on page 20. These are sired by Freed's Improver and Louis' Crimson Wonder and are out of his best sows. He is pricing the fall boars at $35 and $40 and the spring boars at $25. Send him an order for these at once as he has some good ones and they are cheap at the price he is asking.

Wegter Offers Duroc Jersey Boars.

On page 23 Henry E. Wegter, Sheldon, Iowa, offers thirty head of spring boars and seven head of good fall boars for sale. These are sired by Happy Secret, Model Chief I Am, Put's Top Col., Chief Model and Crimson Improver. The fall boars are all sired by Big Wonder and he has some good ones. The price of these is from $25 to $40 and if you order now you will have the pick of the bunch. When writing him kindly mention The Homestead.

Choice Duroc Jersey Boars.

On page 23 Heiko Gruis, George, Iowa, begins his Duroc Jersey advertisement and is offering fifty choice boars for sale at $25 and $30. These are sired by his splendid yearling boar, A Wonder Jr., old A Wonder, Fancy Chief, Model Chief Jr., Cloverdale Prince and G. S. Crimson Wonder. These are out of his very best brood sows. He will book your order now for one of these pigs and you cannot beat it at the price. When writing him kindly mention The Homestead.

Garrett Bros. Offer Real Bargains.

Without question as great bargains in Duroc Jerseys as is being offered may be had from Garrett Bros., Steele City, Neb. These gentlemen have a good herd, built up from good stock and popular breeding, and they have a big crop of spring pigs that they offer at prices that seem real bargains to the writer. They have a choice lot of boars that will be shipped if ordered before August 15th at $20 each. Write these gentlemen immediately and please say that you saw this notice in this paper.

Eggert Horses at State Fair.

Geo. Eggert, Newton, Iowa, has a special announcement on page 24 stating that he will show his Percheron, Belgian and Shire stallions and mares at the Iowa State Fair to be held August 20th to 28th. Mr. Eggert would like to have all interested in good draft horses visit his exhibit at the fair and see for themselves the kind of horses he breeds and imports. He always has a good collection on hand that are for sale at attractive prices. Write him at any time for any information you want and when so doing kindly mention The Homestead.

Clouss' Red Polls.

On page 21, Frank J. Clouss, Clare, Iowa, one of the best known breeders of Red Polls in the state of Iowa and owner of one of the best herds in the West, is advertising seven coming two-year-old heifers for sale. These are bred to his noted show and breeding bull, Ruperta's Goods, a bull that was champion as a yearling and as a calf at the Nebraska State Fair. He also offers a few good yearlings and a number of serviceable bulls. One of these is a September calf, another was dropped in October and one in November. If you want anything in Red Polls write Mr. Clouss or go and see him. When writing him kindly mention The Homestead.

E. L. Busch's Durocs.

One of the real good herds of Nebraska is the Duroc herd owned by E. L. Busch, Syracuse. This herd was founded four or five years ago, and since the very start, none but the good ones have been purchased for breeding stock. Some of the very best sows of the country have gone to this herd and they were in most instances already mated with the best boars of the country. In this way a very select lot of breeding stock has been assembled, and all of it coming from top stock. Mr. Busch is now offering the spring boars at private sale, and they will be sold well worth the money. The writer is familiar with the herd, also the manner in which Mr. Busch does business, and we do not hesitate to recommend him and his stock to our readers. When you write, kindly men- The Homestead.

J. E. Smith's Durocs.

J. E. Smith, Victor, Iowa, the well-known Duroc Jersey breeder, is now in position to sell fall and spring boars that will please his customers. He has some good fall boars sired by Golden Prince, Royal Col. and Victor Col. He has a grand lot of spring pigs sired by Golden Prince, Royal Col., Victor Col., Crimson I Am and Smith's Crimson Wonder. The dams are by such noted prize-winning sires as Kelly's Pilot Wonder, The Professor, Proud Col., Preimer Col., Model Wonder and others. Mr. Smith has in his five herd boars a line of breeding that cannot be excelled. Royal Col. is sired by the noted King of Cols., Victor Col. is a son of Premier Col., Crimson I Am is by Crimson Wonder I Am, Smith's Crimson Wonder is by Crimson Wonder III, and Golden Prince is an Advancer-Golden Model bred boar. Mr. Smith's object in keeping so many herd boars is to be able to breed each sow to the boar that will nick the best, considering both the blood lines and individual merit. Mr. Smith can please you in a good fall or spring boar at a reasonable figure. See page 23 and write him mentioning The Homestead.

Holstein-Friesians for Sale.

On page 10 the Rock Brook Stock Farm, Station B., Omaha, Neb., advertises sixty-five head of Holstein-Friesian cows and heifers for sale, many of which are bred and due to calve in the fall. These are bred to a son of King of The Pontiacs or to Sir Pontiac Ragapple Korndyke, who is sired by a son of Pontiac Korndyke and out of a thirty-one-pound A. R. C. daughter of Pontiac Korndyke. He is the strongest bred Korndyke bull today in the West. These cows and heifers will range from two to seven years. They are making special prices on these for the next sixty days. They also have a few good serviceable bulls for sale. When writing them kindly mention The Homestead.

Gene Fagan, Auctioneer.

Gene Fagan, Marion, Iowa, the well-known live stock auctioneer, had a very successful season last year. He made 153 sales during the season which speaks well for the esteem in which his patrons hold him. He sells all breeds of pure-bred live stock as well as general farm sales. Mr. Fagan is a man who knows values and his methods of conducting sales is to treat both buyer and seller fairly. He has a wide acquaintance and this is a big asset. He has a large number of sales booked, but still has several desirable dates open and would be pleased to correspond with anyone contemplating the holding of a public sale. His terms are reasonable. See page 21 and when writing him kindly mention The Homestead.

Col. L. A. Matern, Auctioneer.

On page 21 will be found the advertisement of Col. L. A. Matern, Wesley, Iowa, one of the best known of the younger live stock auctioneers in northern Iowa. Colonel Matern is well equipped to conduct sales and has been on most of the leading sales in the northern part of the state. He is a well-known breeder of Short-horn cattle, Percheron horses and Duroc Jersey hogs, and has given especial attention to these breeds. He comes before the public with a knowledge of pedigreed stock and he also comes before the public with a reputation for integrity and a hustler. As we have said above he has been employed on most of the leading sales north and these breeders have all been well satisfied with his work. We take pleasure in recommending him to anybody who wants a capable and wide awake auctioneer and we will assure you that you will be pleased with his work. He has some open dates for fall and winter sales and will be pleased to hear from those who contemplate making sales. He also sells real estate and cries farm sales in all parts of the country.

Heisel's Poland Chinas.

J. B. Heisel, Grinnell, Iowa, the breeder of big-type Poland Chinas, has had a successful year and now is beginning to ship out his fall and spring boars for use this fall. His herd boar is Ex Wonder, a three-year-old son of the noted Big Ex that did so much good in the herd of W. H. Cooper, Hedrick, Iowa. Every breeder who sees Ex Wonder admires him. He has heavy bone, is good on his feet and sires large litters of good pigs. Mr. Heisel has the best lot of spring pigs he has ever raised and most of them are sired by Ex Vonder. There are two fall boars by Ex Wonder and out of Modesty Quality and two out of Modesty Queen that are extra good. The low price of $50 each will buy them. They are good-boned pigs, with good head and ear and smooth. He has some yearling and aged sows bred to Ex Wonder and Iowa Product that will farrow from August 10th to November 1st, that he prices at $40 and upward. These hogs have had lots of range, running water and are healthy. Mr. Heisel would trade his yearling herd boar, Iowa Product, for a good spring pig or will sell him for $75. See page 22 and when writing mention this paper.

Wayside Short-horns.

Geo. H. Burge, proprietor of Wayside Farm, Mt. Vernon, Iowa, will exhibit a few good young Short-horns at the Iowa State Fair this year. Mr. Burge has been an exhibitor at the state fair for many years. It has always been his plan to show his herd bulls in nice breeding shape and a few young things in good growing condition. This year he is showing his great two-year-old herd bull, Silver Sultan, a son of the great sire, Scotch Sultan. Silver Sultan is a beautiful roan and will be a strong contender for high honors, though he is not fat enough to show at his best. He is the type of bull that will work improvement in any herd. Two of the heifer calves are sired by Silver Sultan and they are of the right kind and are sure to receive attention in the hands of the judge. There will also be two good heifer calves by Hopeful Knight. Crusader is a good, growthy, smooth junior yearling bull sired by Stanley Bouff, a grandson of Imp. Lord Bouff, and out of a Rosebud cow by Money Musk. The senior calf is a son of Choice Sultan II, a grandson of Whitehall Sultan. Mr. Burge has for sale three good young bulls about twelve months of age. One is a Mysie by Sterling Scottie, one a Raspberry by Hopeful Knight and the other a Nonpariel by Silver Sultan. These bulls are in nice breeding condition and can be purchased worth the money. Look up Mr. Burge's exhibit at Des Moines. Mr. Burge offers his services as a live stock auctioneer to our readers. His twenty years experience in breeding Short-horns places him in position to be of especial value in any Short-horn sale. He has been connected with a number of Short-horn sales during the past year and has rendered excellent services in every instance. If interested in Short-horns or a sale date write Mr. Burge as per his announcement on page 23 and kindly mention The Homestead.

Maasdam & Wheeler's Percherons.

E. G. Wheeler, of the firm of Maasdam & Wheeler, Fairfield, Iowa, is in Europe at the present time purchasing an importation of Percheron stallions and mares and some Scotch Shorthorns. The importation will not land until September and for this reason this firm will be unable to show at the Iowa State Fair this year. The patrons of this firm may rest assured that in the new importation will be a choice collection of horses and cattle. See page 24.

Ground Limestone Increases Fertility.

The intelligent use of ground limestone never fails to give beneficial results. It removes acidity from the soil and liberates fertility, especially in the form of potash. Many practical demonstrations of the good resulting from the use of ground limestone are to be found all over the grain belt. It is cheaper and easier to apply than burnt limestone, and can be stored without danger or loss. On page 12 Dolese Bros. Co., Buffalo, Iowa, announce that they will send samples and prices to any reader of The Homestead who will send name and address.

Some Good Angus Bulls.

H. W. Ehlers, whose postoffice is Roca, Neb., is the owner of one of the good Angus herds of eastern Nebraska. Right now Mr. Ehlers has a few very good Angus bulls that he will sell worth the money. The herd bull was bred by the University of Nebraska Farm, and he comes of a long line of popular stuff. The younger bulls are sired by him. Either the herd bull, or the younger bulls can be bought worth the money. We would suggest that Homestead readers write for the prices at once, and we are certain that they will be found to be very low. Mention The Homestead and address as above.

An Excellent Jersey Bull for Sale.

W. Sidders, Bennet, Neb., has for sale a Jersey bull of most excellent pedigree and is a good dairy type. This bull is a year past, and has been used on some dozen cows by Mr. Sidders. The record back of this bull is gilt edged, and we question if a bull of this breeding and individuality can ordinarily be had for several times the money Mr. Sidders asks for this one. We believe that Mr. Sidders has a better one coming on, hence the other one is for sale. The other one we mention is a calf, and comes with a breeding that has no superiors and he is also a good individual. He will be old enough for service another year, and as there will be use for but one, the older one is now offered for sale. Mention The Homestead and write immediately.

Balmat & Swale's Durocs.

Balmat & Swale, Mason City, and Fredericksburg, Iowa, have for sale a fine lot of spring boars with excellent breeding and individuality. This firm has the best lot of pigs they have ever raised and can please buyers in price and quality. Their boar pigs have lots of size, plenty of length and heavy bone. The pigs are sired by Chief Select Jr. 103747, B. & S. Golden Model 129083, Model Chief Jr. 130319 and C. J.'s Chief 118415. These herd boars are of the most fashionable blood lines and the fact that they were good enough to head these herds is a good recommendation for their value as sires. Any of our readers in need of a good boar should write these men as per the announcement on page 20 When writing them kindly mention The Homestead.

A Wonder is Dead.

It is with sincere regret that we announce the death of that great Poland China boar, A Wonder, on July 29th, and this marks the passing of one of the greatest boars that the Poland China breed has known in recent times. In a letter just received from his owner, Henry Fesenmeyer, Clarinda, Iowa, he says: "I am sorry to say A Wonder is no more, he having died today at two o'clock. I fed him this morning and he seemed all right and I thought him good for a long time. Later in the day he got up and staggered for a short time and dropped over dead and hardly made a struggle. You can say to your readers that in my forthcoming sale will be the last chance anybody will ever get to buy his get. I am selling some splendid spring boars by him in this sale. I am also selling eight sows bred to him not cataloged and I would rather keep the ten head that go in bred to him were it not that I had given my breeder friends the assurance that I would put these in the sale." With the passing of A Wonder we desire to add a word, as we were possibly in as close touch with this boar as anybody excent his owner. We became acquainted with A Wonder when Will Wheeler first secured him for his herd and we were the first to measure him and proclaim him as one of the greatest large-type Poland China boars living. Later on when Will Wheeler made his closing out sale Henry Fesenmeyer wrote us regarding this hog and we advised him to come to the sale and look him over. As soon as he saw him he wanted him and gave us instructions to go on and buy him, as it was the turning point in Fesenmeyer's life as a breeder when he secured him. About this time his get began to come into public notice and breeders from everywhere began to want his sons to head their herd. His daughters were also sought after and there is no question but they were good, until today some of the greatest big-type herd boars in the land and some of the greatest sows in the leading herds are sired by him. Breeders will sometimes differ on the type and the value of a herd boar, but it is universally conceded that Fesenmeyer's A Wonder was one of the greatest sires known to the breed in recent times. Some time ago Mr. Fesenmeyer had secured one of his best sons, in case the old hog might go, and with his other great boar, Big Joe, he will still be in the forefront of the big-type Poland China procession.

Reese's Chester Whites.

On page 24 L. C. Reese, Prescott, Iowa, begins his Chester White advertisement and he is offering twenty choice spring and one good fall boar for sale. The Reese herd is one of the best known in this land. When writing him about these pigs kindly mention The Homestead.

Harms' New Importation.

V. W. Harms, the Percheron and Belgian breeder and importer at Fairbury, Ill., writes from Paris, France, that he has just sent to this country an importation of high-class Percheron mares, including some fine matched pairs of two year olds and some outstanding yearling fillies, the best to be found in France. Mr. Harms writes that all of these horses were bought so that they can be sold at very reasonable prices. His advertisement appears on page 24.

Beckendorf's Hampshires.

On page 20 J. E. Beckendorf, Walnut, Iowa, begins his advertisement of his Hampshires and he will be pleased to hear from any of The Homestead readers who are going to be on the market for a boar or some sows. Mr. Beckendorf is secretary of the Iowa Hampshire Association and he has one of the good herds in the state. He can tell you anything you want to know about Hampshires. Write him your wants at once and please mention Iowa Homestead when doing so.

Brook's Hampshire Swine.

C. A. Brook, Washington, Iowa, will exhibit his herd of Hampshires at the Iowa State Fair this year and will be glad to meet all interested in this popular breed of swine. He will have a full show herd and among them will be some strong candidates for honors. Mr. Brook has a fine lot of spring boars, many of them sired by his prize-winning boar, Joe, that he is pricing worth the money. He has already sold a number and the buyers are well satisfied with their purchases. See the announcement on page 23 and when writing please mention The Homestead.

A Great Herd.

The success which F. J. Bristol, Oakfield, Wis., has had in breeding Holstein cattle should be an inspiration to the young farmers of the United States. Starting in 1893 with six cows he now has a herd of 150 registered cattle. He has made a specialty of breeding and developing the Korndyke family and has produced some wonderful cows. He has purchased several bulls paying $1,000 when calves, and recently sold seventeen head for an average of $310 per head. Among this lot was a bull which sold for $1,000, and a cow which sold for $650. His present herd bull is King Segis Pontiac Polkadot, a full brother of which sold for $10,000 in June, 1911. Mr. Bristol's farm is located one-half mile from the station, and his residence and buildings are in the village limits. He has a large number of fine buildings that are finely equipped. He is now putting in his own power plant, as he expects to carry on testing the year around.

Eakles' Durocs.

S. E. Eakles & Sons, Phophetstown, Ill., topped the recent sale of H. E. Browning on a fall gilt sired by Volunteer and out of Proud Lucy at $315. Messrs. Eakle purchased Proud Lucy in Mr. Browning's sale last December, bred to Volunteer, and has a fine litter from her now. This litter is full sisters and brothers to this top sow and in the litter are some boars of the herd-heading kind. This firm also has the dam of the great boar, Disturber, and she has a fine litter by S. E.'s Premier Col. This litter is extra good and there are a couple of outstanding boars that should head good herds. They also have some good pigs by Cherry Chief, Captain Model, Disturber and others that are ready to ship out. This firm have a herd of sows that is not to be found in many herds and our readers will find this a good place to buy a herd boar that will develop right. See the advertisement on page 23 and when writing them for prices kindly mention The Homestead.

Choice Duroc Jersey Boars.

On page 23 P. W. Weberg, Denison, Iowa, begins his Duroc Jersey boar advertisement and he is offering thirty head for sale. Mr. Weberg owns the grand champion boar, Crimson Wonder 3d, and the 1,000-pound boar, C. H.'s Special, and these two noted hogs stand at the head of his herd. Both of these are too well known to need extended mention as they have made a reputation for themselves that puts them in the forefront of the breed. Mr. Weberg's spring crop are mostly sired by these two noted boars and he has some extra good ones. He has an April litter by Crimson Wonder 3d and out of a Defender sow that looks very good to us and he has several March litters that are extra choice. These are out of the best sows he has and those who have been watching Mr. Weberg's buying know that he has only bought the very best. He has some rather outstanding spring pigs by these two boars and the man that is looking around for a herd boar will find he has some good ones. He also has nine good fall boars. Three of these are sired by C. H.'s Special and are out of a Choice Goods sow. These are June boars and one of these is extra good and will make an unusually large boar. Two others are sired by Crimson Wonder Again, a son of the old and original Crimson Wonder, and he has a good March yearling by Col. Gano. He is offering some special bargains in these fall boars and they are bred along the very best lines. He is also booking orders for good

spring boars sired by Crimson Wonder 3d and C. H.'s Special. When writing Mr. Weberg kindly mention The Homestead.

Irvinedale Belgians at Iowa State Fair.

The Irvinedale Farm, Ankeny, Iowa, will be at the Iowa State Fair this year with a greater collection of high-class Belgian stallions and mares of all ages than has heretofore been forwarded from that institution. Something like forty head will be shown. Every one is a good one. Some are imported and among these are winners in the Belgium shows. Others are home-bred animals that have either been state fair winners themselves or are descendents from state fair winners. The advertisement appears on page 24. Mr. Irvine invites every lover of Belgians to call at his barns. Those who are in the market for stock will find something there worth investigating, or, if they prefer an automobile will be at hand to take them to the home farm where they may investigate a magnificent lot of animals. A few good Percheron stallions will also be on exhibit. Any information that may be required previous to the fair may be obtained by writing to Chas. Irvine, Ankeny, Iowa.

Wm. Retzlaff's Durocs.

The writer called on Wm. Retzlaff, Bennet, Neb., a few days ago, and we wish to say that we saw a very nice line of Durocs on the farm. The Retzlaff herd is one that has been founded of good stock, and has been improved from time to time as good things might be purchased. A two-year-old boar in the herd is Sensation Again by the well-known Wallace's Wonder. Sensation Again is a good big boar and sires fine litters of large numbers. He is doing a good work in this herd, especially are his get very large, and he is sure a large-type boar himself. He will be at the state fair, and while he may not land high up the ladder, yet he is just a mighty good boar. Col. Willeta 2d is the sire of some good fall gilts and a son of Advancer 5th is the sire of some very choice spring pigs. Some of the best things on the farm are out of a daughter of Crimson Critic, and sired by Sensation Again. This sow was a prize winner at Lincoln last season, and it looks as though some of her pigs ought to land well this fall. Mr. Retzlaff has a nice lot of spring boars for sale, and Homestead readers will do well to write him for prices. Further announcements will be made through The Homestead from time to time, kindly notice them.

H. D. Geiken's Durocs.

Among the good herds of Durocs in the central part of Nebraska, we wish to mention the herd owned by H. D. Geiken, Cozad, Neb. Mr. Geiken has been breeding good hogs for a number of years, and this season has near 100 head of spring pigs. The pigs are doing nicely at present and should make a very fine bunch of stuff by early fall. They are mostly the get of Crimson Critic 2d, a son of the well-known Crimson Critic and he by the famous I Am A Crimson Wonder 2d, now owned by Swan & Ellis, of Iowa. The dam of Crimson Critic 2d is Lady Golddust by the famous Watts' Model. This is some of the more famous ones of the Briggs Bros. herd of Seward, Neb., and the way this boar is breeding for Mr. Geiken is certainly good evidence that blood tells. A few of the good breeding sows are by Proud Chief, a few by Fancy Wonder and the greater part of the rest are by King the Col. This is all good breeding stock, and has done well for Mr. Geiken. A new boar has recently been added to the herd. He is from the well-known Putman & Son's herd of Tecumseh, Neb. This boar is sired by Put's Top Col., by Morton's Top Col. This is a good boar and we believe will do well for Mr. Geiken. Mr. Geiken has some very choice fall boars for sale right now. They are the get of Crimson Critic 2d, and three or four of them are fit to head good herds. He is pricing them at farmers' prices. It would be a good plan to write him at once.

A. B. Heckenlively's Polands.

While at Cozad, Neb., a short time ago the writer called on A. B. Heckenlively of that place and spent some little time looking over the Poland China herd. For a new herd it is one of the good ones of the country. It has been built up from good stuff, and real, big stock as well. A number of sows by the well-known breeding boar, Judy's Big Giant, are in the herd and this combination of stuff has done well for Mr. Heckenlively. A son of Hather's Hadley 2d and out of Mr. Hather's great breeding sow, Susie M., by the 1,000-pound Panama Pan by Expansion is in the herd and has sired some extra choice stuff. We are of the opinion that a boar of this type and breeding will be a mighty valuable boar in a few years. Hather's Hadley 2nd is a big boar by Hather's Hadley, by Big Hadley, and he has sired a lot of good, big stuff including the Internatinal reserve champion, Hadley Over. This last-named boar will be at the Nebraska State Fair this season and he will weigh better than 900 pounds, which is not so bad for a two year old. Mr. Heckenlively has another boar that is of the extreme big sort and looks as though he would be wonderfully big. He is Big Orphan's Price by Neuhofle's well-known boar, A Wonder's Price and his dam is Silverthorne by Big Orphan. This is as good big breeding as will be found in the West and from as good a herd as within the state. This boar is just extra good and we believe will develop into one of the famous boars of next year. We believe that with this boar and A. B.'s Hadley, the other boar just described, that Mr. Heckenlively will have a combination that is hard to excell. Mr. Heckenlively will offer boars at private treaty this fall and they are for sale from now on. He will probably make a sale of bred sows to dispose of his surplus sow stock, and announcements of same will appear in The Homestead in due time. If interested in some good spring boars, we would suggest that Mr. Heckenlively be consulted before buying.

Turner's Chester Whites.

In a recent letter from Amos Turner, Wilber, Neb., among other things it is stated that he has completed vaccinating his entire herd of extra choice Chester Whites and that they were doing very fine. Mr. Turner has one of the real good herds of the western states and now that his hogs have all been given the double serum treatment, he feels that he is offering the buyers a proposition that is almost a sure thing. These hogs should be a good investment at any time, but now that he has immunized them they should be even more valuable. Readers of this paper in search of some high-class breeding stock will do well to write Mr. Turner before buying. His advertisement will be found on page 24. Kindly notice it and write at once for full description of the stock offered and mention this paper when doing so.

Hutchinson's Poland China Sale, Last Call.

In making the last call for the Poland China sale that will be made by J. G. Hutchinson & Sons, Crete, Neb., on August 12th, the writer wishes to especially emphasize the fact that this offering is absolutely choice. There will be about thirty head in the sale; all but two or three will be spring pigs, and we must say that every one of them is a good one. Not a cull in the offering, and the blood lines as well as the individuals are first class in every way. The spring pigs are all the get of Hutch's Blue Valley, which as we have before stated in The Homestead, is one of the best breeding boars sent out from the Walker herd in some time. He is also of the very best breeding of this herd, being sired by Blue Valley and out of the great sow, Blue Valley Beauty 3d. The few older sows that will be offered are bred for fall litters to Hutch's Blue Valley, and they are sired by Hutch's Wonder, a son of A Wonder and his dam was Giantess 3d. This sale will sure be the place to buy a few gilts or a herd-heading boar, or a bred sow. The stuff is right, and the season of the year will favor the buyers in that they are pretty sure to secure some rare bargains. If unable to attend, send bids to J. C. Price, representing The Homestead. Direct all letters to Mr. Price in care of J. G. Hutchinson & Sons, Crete, Neb.

Fesenmeyer's Great Offering.

The great Poland China breeding boar, A Wonder, is dead, but the good work that he performed while living is still going on and the sale of Henry Fesenmeyer, Clarinda, Iowa, on August 12th, is full of things sired by him or bred to him. The old boar died on July 29th, and his demise marks the passing of one of the most sensational large-type breeding boars of recent times. Breeders of the big-type Poland Chinas will therefore be impressed with the fact that in this sale will be one of the very last opportunities that will ever be presented when they will have an opportunity to buy boars sired by this great sire or get sows bred to him. There are quite a number of spring boars in this sale that are sired by him and they are good. They are good enough to head any herd in the land and we urge our friends who are going to want to buy a boar to get one of these. There will never be a time when these boars will not be worth more than what you have to pay for them in this sale and that is the history of every A Wonder boar that has been sold when a pig. We gave a detailed description of these boars in last week's issue and will therefore let it go at that. Then there will be ten good sows in this sale that will be bred to this boar and we are emphatic when we say to our friends by all means get one of these sows. He is also cataloging five of the very best spring gilts he has raised this year by old A Wonder and these should be some attractions for the breeders to buy. Another feature of this sale will be the splendid Big Joe sows that he is selling bred to old A Wonder. No breeder ever sold a better lot of sows than these Big Joe sows, and bred to old A Wonder they certainly ought to be sought after by all of our best breeders. There are also some corking good spring boars in this sale that are sired by Big Joe and they will make great herd boars. Some splendid sows go in bred to Big Joe and those who have seen this boar's get will agree with us that Fesenmeyer has in him a boar that is in every way worthy of following A Wonder. The sale is made up of A Wonder and Big Joe boars and sows and it is an offering that we can recommend to all our friends and we will also add that the breeder who does not avail himself of this opportunity to buy some of these will not be doing himself or his herd justice. Remember this is the last opportunity you will ever get to secure this line of breeding. Get the Fesenmeyer catalog at once and kindly mention this paper when writing for it.

NEXT WEEK'S SALE PROGRAM

Tuesday, August 12 { Poland Chinas, J. G. Hutchinson & Sons, Crete, Neb. / Poland Chinas, Henry Fesenmeyer, Clarinda, Iowa.

Wednesday, August 13 { Poland Chinas, J. W. Pfander & Sons, Clarinda, Iowa.

SHEEP

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - LOGAN, IOWA

Our M. T. White will represent this paper at the sale and will care for any bids sent in his care.

Charlson's Milking Short-horns.

Those of our readers who are wanting Bates-bred bulls of the milking strain should get in touch with J. C. Charlson, Leland, Iowa. He has six or seven young bulls coming a year old in October and November that are strongly Bates bred in the leading milking strains and he is offering these for sale at private treaty. He also breeds the large-type Poland Chinas and has about sixty fall boars and sows for sale. Just now, however, he is anxious to sell the bulls and if you want one of these write him or go and see them. When corresponding with him kindly mention The Homestead.

G. W. Damrow's Oxford Sheep.

With this issue of The Homestead, G. W. Damrow, R. F. D. 3, Lincoln, Neb., is starting an advertisement in which he offers for sale a very choice lot of Oxford rams and ewes. Mr. Damrow is a thorough farmer, a good stockman and a business man that our readers will be pleased to deal with. His flock of Oxfords is probably the largest in Nebraska, and in the yearly exhibits made at the Nebraska State Fair, this flock has come off in good shape as regards premiums. The Oxford sheep are of good size, really often of great size, and they are very hardy and good shearers. Fifteen to twenty pounds of a clip are rather the ordinary than the exception, and as they have been bred for many years to meet a high-class mutton demand in the old country, there is no discounting them on the dressing score. They are a very beautiful sheep, possessing a good carriage and a clear black face. Those of our readers that wish further information, or that are interested in this breed and wish some very choice breeding stock that may be had at very moderate prices will do well to address Mr. Damrow. He is located about seven miles nearly south of Lincoln, Neb., and he is able to ship over five different railroads. See advertisement on this page, and when writing, kindly mention The Homestead.

Griffith's Angus.

John E. Griffith, Washington, Iowa, has one of the large herds of Aberdeen Angus cattle in the state. He has enjoyed an excellent trade this year, having sold twenty-seven bulls during the past few months. He has a number of bull calves on hand, a few of which are old enough for service that he is pricing reasonable. Mr. Griffith has good cattle and he makes prices that are attractive and this is why he has been having a good trade. The breeding of his cattle is right and he has been using good bulls. If you need an Angus bull or some females see page 22 and write him mentioning The Homestead and you will be treated right.

D. S. Cochran's Durocs.

With this issue of The Homestead, D. S. Cochran, R. F. D. 7, Lincoln, Neb., starts an advertisement in which he offers a lot of choice Duroc Jersey boars. Mr. Cochran has only been in the business a short time, but his foundation material for this herd has been drawn from the very best herds of the country, and the boars that are now being offered are really very choice. They are sired by two or three different boars. Two early litters are sired by Sensation Again by Wallace's Wonder and his dam is Sensation Girl by Chief Sensation. These litters are from capital sows, being the tops of Wm. Retzlaff's last winter sale. One of them is a daughter of Belle's Prince, his dam being the noted sow, Clay Center Bell, and the other sow is sired by Lincoln Wonder. A very fine litter is sired by J. C. Theobold's boar, Ohio Belle's Crimson by Crimson Wonder Again and his dam being the noted sow, Ohio Belle by Ohio Chief. Ohio Belle's Crimson is just one of the extra good breeding boars of the state today. The remainder of the pigs are mostly sired by a son of Lincoln Wonder that Mr. Cochran used in his herd last season. This was a boar of excellent pedigree, nothing better anywhere and he has sired good stuff for Mr. Cochran. One litter is sired by I Am A Crimson Wonder 4th, considered by Mr. Beem to be the best pig raised last season and sired by the famous boar, I Am A Crimson Wonder 2d. The dams of these pigs other than those already mentioned are sired by the prize winners, Crimson Critic, Watts' Model, Golden Model 5th, Good E Nuff Model and a few other well-known boars. Crimson Critic was first-prize boar at the Nebraska State Fair, 1911; Watts' Model is one of the most valuable sow sires of the breed; East or West; Golden Model 5th has sired some of the best Durocs in Nebraska and Good E Nuff Model is by the "Duroc wonder."

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FORTY GOOD

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK, BELMOND, IA.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. Have 45 choice bucks, ewes and lambs. Will make a first-class flock for some one to start with. Will sell in one lot or divide to suit purchasers. Address
EARL BLOOM - BRIDGEWATER, IOWA

SHROPSHIRE RAMS AND EWES

YEARLING, two-year old and three-year old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

Good E Nuff Again, and he was first-prize senior year boar at the Nebraska State Fair last year. There are also a couple of sows sired by the champion, Valley King, and they are out of a daughter of Golden Model and the dam being Miss Hope, made her a full sister to the Model Queen that sold in Putman & Son's sale for the recent record price of $705. This is the sort of breeding Mr. Cochran has to offer and he is pricing these boars at $25 and $30 each for the month of August. It would be a good plan to order one of these boars at once, as they are pretty sure to move fast. See advertisement on page 20, and mention The Homestead when you write.

Dunlap's Mule-Foot Hogs.

A visit to the Blue Ribbon Stock Farms of John H. Dunlap, Williamsport, Ohio, will convince the most skeptical that the mule-foot hog such as Mr. Dunlap has produced has a great future. On these farms can be found the blue blooded animals of this breed that Mr. Dunlap has improved and brought before the public in the last five years. The commodious central hog house and about thirty individual hog houses set in little fields complete his hog equipment. Mr. Dunlap fits a show herd, and sometimes two herds, annually and sends them out to win in the show rings all over the United States. The spring pigs are now weaned, and are being shipped nearly every day all over the land. There are ten big prize-winning herd boars in the Ohio Blue Ribbon herd, and anyone wanting to make a start with this breed can do so without getting inbred stock. Mr. Dunlap has over sixty big brood sows on his farms that farrow twice every year. These sows have size, hardiness and farrow and raise large litters. Mr. Dunlap will be glad to show his fine herd to all who are interested, and will meet anyone at the train, provided he is notified when to expect them. This herd now numbers 350 head of all ages. Write Mr. Dunlap, mentioning this paper. His advertisement appears on page 24.

Kent's Iowa Herd of Chester Whites.

On page 20 of this week's issue we begin the advertisement of Thos. F. Kent, Walnut, Iowa, the owner of the noted Iowa herd of Chester Whites, and this is just an announcement that he will be at the Iowa State Fair with one of the best herds he has ever had out. He will show Kent's Promoter and Combination I. X. L. at Des Moines and a line of sows that are by far the best he has ever fitted for a fair since he has been in the business. Mr. Kent won nearly 200 premiums with his herd in 1912 at the Iowa, Nebraska, Missouri and Kansas State Fairs and among the ribbons that he won were 32 champions, 68 1sts, 42 2ds, 13 3ds, and 14 4ths, so you will readily see that he was getting his share of the winnings in some of the greatest shows in the country. At this time the Kent herd numbers over 400 head and he has anything and everything that anybody will want in the Chester White line. He has over 200 head of spring pigs now on the farm and these are sired by and many are out of some of his best show winners. Some of these spring pigs are sired by reserved sons of his great old show and breeding boar, Combination, a hog that did wonders for the breed by Ned, first-prize boar at the Iowa and Nebraska State Fairs; White Rock Boy, first-prize boar at the Nebraska, Kansas, Missouri and Illinois State Fairs in 1912; White Rock, one of the largest and heaviest Chester White boars ever used in the West; Little Style, winner of first in a class of forty-four at the Illinois State Fair, 1912, and the great 1,200-pound boar, Sweepstakes, winner of first at Iowa in 1912. Mr. Kent is in position to fill any kind of an order for a boar or for sows. He is in position to fill your order for a good show sow should you want one, or he will sell you pigs of any age. If you want Chester Whites write Tom Kent at once and send him your order, or be sure to see him and his herd at Des Moines and on the fair

Extraordinary Poland China Sale

TUESDAY, AUGUST 12, 1913

At Farm One Mile East of Crete, Nebraska, J. C. Hutchinson & Sons Will Offer the Farm of 19 Acres Which Is Well Equipped for the Hog Business and

Thirty Head of the Pick of the Herd

THESE will include a very select lot, as good as within the state, of spring pigs, both boars and gilts, also a few sows bred for fall litters. The spring pigs are all sired by Hutch's Blue Valley, one of the very best yearlings in use in Nebraska and out of dams by the most popular and best known boars of the breed. Come to this sale if possible or send bids to J. C. Price, representing The Homestead. Col. W. J. Thompson, Auctioneer. See field note in this issue. Address

J. C. HUTCHINSON & SONS - - - CRETE, NEBRASKA

circuit. When writing him kindly mention this paper.

J. C. Droz's Durocs.

J. C. Droz, Fairfield, Iowa, is the owner of the noted boar, Cherry Chief, and also a part owner of the great sow sire, Proud Col. All of Mr. Droz's pigs are sired by these two boars. He has a fine lot of prospects for herd boars, in fact, more than he has had at any time in the past. It has not been his custom to grow his pigs fast until they develop bone and frame and then with proper feeding they develop into boars that are better for the purchaser. Mr. Droz is not offering his pigs for sale, but will have them in ideal shape in about six weeks. His announcement will appear in this journal in due time.

R. B. Baird's Great Columbus Offering.

On Thursday, August 14th, R. B. Baird, whose herd of big-type Polands made famous by the champion boar, Columbus, is so well and favorably known to our readers will hold a great sale at Central City, Neb. The offering will consist of fifty head and will include the yearling show boar, Columbus 2d, twenty-six head of bred sows, including many daughters of Columbus that are prize winners, twenty head of top spring pigs sired by Columbus and three big, growthy boars. The sows will be bred to Oakland's Equal, a full brother to Fesenmeyer's Big Joe. The show records of this herd is familiar to our readers and this sale should attract all lovers of the big-type Polands. Send for a catalog at once and arrange to attend the sale. See page 22 and in writing Mr. Baird kindly mention this paper.

W. E. Willey's Polands.

The writer recently visited W. E. Willey, Steele City, Neb., and we want to say that we saw some spring pigs on his place that are sure extra choice. It seemed to us that a couple or three litters were as good as anything we had seen all season to that time. We have visited all the leading herds in southern and western Nebraska, and we must say that if these pigs keep coming, they will surely give them all a run for the money this fall. However, great changes come over a pig in the course of six to eight weeks, and when they are growthy, sometimes they do not hold out, but in this case we believe they will, for they are sired by the sensational boar of last season, called Skylark. This boar was a winner at Nebraska and was first and junior champion at several western shows, in fact, at every place where he was shown except at Lincoln. Mr. Willey is offering this boar for sale and also some spring stock. Should you write, kindly mention this paper.

Pfander's Great Poland China Offering.

August 13th is the date when J. W. Pfander & Sons will make their great fall sale at Clarinda, Iowa, and it promises to be one of the great sales of the early fall season. When it comes to raising large-type Poland Chinas the Pfanders are strictly in it and they have them as large as you will find them anywhere. They are selling some great spring boars in this sale by old A Wonder, out of that great brood sow Giantess 2d and they will be hard to beat. We gave a detailed description of these boars in last week's issue and we will again say to readers of this paper that you will hardly find anything better this year. They are selling a good young boar or two by their sensational young hog, King of Wonders, and these will show how this boar is going to be as a breeder. Another splendid boar is sired by Big Jumbo 2d and out of Mammoth Giantess 12th, and he will be large enough for anybody wanting extreme size. Another good spring boar in this sale is sired by Big Ben and is out of Miss Amazon, a sow that they secured at the Ed Caverly sale and she was the top of that sale when they got her. The dam of this sow which is one of the largest they have in their herd also goes in and she is bred to the great young boar, King of Wonders. There will be three fall boars in the sale, all of which are sired by old A Wonder and they will make splendid herd boars. The Pfanders are selling a most excellent lot of yearling, fall and matured sows in this sale and the most of these will be bred to King of Wonders. It is generally conceded that this boar, King of Wonders, is one of the most sensational young big-type Poland China boars now before the public and this is the time to buy a sow bred to him. Take it from us that the man that gets one of these sows now will be in the lime light in the future and it will be an investment that he cannot go wrong on. It is a great offering of large-type Poland Chinas from one end to the other. Get the catalog at once and go to the sale or be represented with a bid. When writing for the catalog kindly mention this paper and if you cannot be there in person send your bid to our Mr. M. T. White who will represent this paper at the sale.

A Good Poland China Boar for Sale.

One of the best known breeders of Poland Chinas and owner of one of the extra good herds of Nebraska is J. T. R. Nash, Minden. Just now the point of special interest is that Mr. Nash has for sale a yearling Poland China boar that is of the herd header sort. This boar is said by all that see him to be the biggest yearling in the country, and that he is extra good in all parts. He is sired by the well-known boar, Gold Medal and his dam is a daughter of the grand breeding boar, Chief Wonder. Gold Medal was one of the highest priced sons of the 1,000-pound Gold Metal and he in turn was generally considered the best son of the great Bell Metal and Bell Metal is generally regarded as the very best son of the great and only Expansion. The dam of this boar is one of the best breeding sows in the Nash herd, and Chief Wonder was one of the best sires of his time in Nebraska. It surely runs in the family for this fellow to be a good one, and as he is for sale at a reasonable price, readers of The Homestead should write about him immediately. The Nash herd is full of the blood of Gold Medal and for this reason this boar cannot well be used, otherwise he would not be for sale at any price. Big Hercules is now the chief herd boar of the Nash herd, and is one of the biggest two year olds of the entire country. Will not miss 1,000 pounds on the scale very far right now and has not been fitted in the least. The writer weighed him last spring after he had been used quite a little, had made a fifteen-mile trip in a wagon and still weighed over 800 pounds on the scale. This boar is worth keeping in mind, for we consider him one of the sensational big ones of the year.

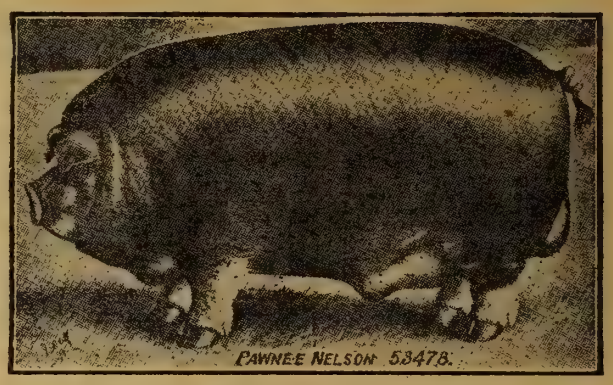
Windom's Pawnee Nelson Sale.

On August 22d, Alvin H. Windom, Nodaway, Iowa, will make a public sale of forty head of his large-type Poland Chinas and he is cataloging a great line of boars and sows. Mr. Windom's herd has come into prominence largely through the great boar, Pawnee Nelson, that has been at the head for a number of years. Mr. Windom bought this great boar from J. O. James and after using him for a couple of years sold a half interest to the Williams Bros., and now they own him together. That he is a great boar is no gainsaying, because his get have been topping some of the leading sales of this western country and they have always been good. Few boars today in the West breed as uniformly large and smooth as does this great boar, Pawnee Nelson. We have paid considerable attention to him for the past few years and we have seen some great boars and sows that were sired by him, and now many of his sons are heading the best herds in the West. Pawnee Nelson has weighed considerably over 900 pounds, so you may know he has some size. He is cataloging forty head for this sale and he has drawn upon some of the best sows in the herd and these are nearly all bred to Pawnee Nelson, and they will therefore be excellent sows to buy. He is selling quite a number of fall boars in the sale that are sired by Pawnee Nelson, and we seriously question whether there will be any better fall boars sold this fall than the fall boars he is selling in this sale. We unhesitatingly say that you will find these boars to be good enough to go to the head of any herd and this is saying a good deal for them. However, we will stake our reputation on the fact that you would like these boars if you will only attend the sale and take a look at them, and if you cannot do that risk our judgment on them and send a bid to the sale. One of these, No. 18 of the catalog, is one of the best and he will weigh 400 pounds. No. 32 is also a good one and he will also tip the scales at 400 pounds, and there are several others that will be right in the same class with these. He is also selling a splendid string of young boars and they are all right. His young boar, Windom's A Wonder, is coming along fine and he is selling some good sows bred to him. This boar is going to be one of the largest of all the A Wonders when he is grown out and you will say so when you see him. Some other sows will also be bred to Progression, another big, stretchy boar that he has been using in the herd. Just one more word regarding the class of sows that Mr. Windom is selling in this sale. They are as good as he has got and collectively speaking you will be surprised with the size and the quality of these sows, and you will say when you see them that it is one of the best offerings that will be sold this fall. It will be a splendid place to buy sows, because he has them to sell and as we said above, he is cataloging the very best that he has in the herd. We are sure there will be some great bargains in the Windom sale and we therefore urge our readers who want something choice to be sure to attend the sale or be represented by a bid. When writing for his catalog kindly mention The Homestead, and remember that M. T. White will represent The Homestead at the sale and will care for any bids sent in his care.

A. H. WINDOM'S
GREAT OFFERING
LARGE-TYPE POLAND CHINAS

40 Head---10 Great Fall Boars Sired by Pawnee Nelson, 13 Proven Brood Sows Bred to Pawnee Nelson, Yearling Sows and Spring Boars

Nodaway, Ia., Aug. 22, 1913



The 935-Pound Boar, Pawnee Nelson.

INCLUDED in my sale will be 10 of the greatest fall boars that you will see in any sale or herd this year and they are all sired by the 935-lb. boar, **Pawnee Nelson,** regarded as the greatest son of Pawnee Lad, and one of the greatest breeding boars living. There will be 13 of my best tried sows in sale bred to **Pawnee Nelson,** and some great Pawnee Nelson yearling and fall sows, bred to **Progression** and **Windom's A Wonder.** I am also selling some grand good spring boars sired by **Pawnee Nelson** and **Progression.** Write for my great catalog at once and mention Iowa Homestead. Address

A. H. WINDOM - - NODAWAY, IOWA
H. S. DUNCAN, Auctioneer M. T. WHITE, Field Man for Homestead

TOO LATE TO CLASSIFY.

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
C. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

MINNESOTA'S MOST NOTED DUROC JERSEY HERD

Owned by W. N. Shanks, Worthington, Minn.

I AM offering a great line of high-class boars for sale, viz: Four by the great boar **Model Chief 2d** and two by that celebrated old champion, **Crimson Wonder Again.** 170 spring pigs, sired by the 1st prize boar **Chief's Model,** and **Model Chief's Last.** These are out of the greatest line of brood sows in the Northwest. Write for prices and description and mention The Homestead.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - GRISWOLD, IOWA.

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
J. L. Thatcher, Manager.

ARCHER 317821
FOR SALE

A FOUR-YEAR-OLD red Short-horn bull of good scale and a tried breeder in finished breeding condition. Will sell cheap if taken now. Also have six 10 to 13-months-old calves for sale.
W. W. VAUGHN - - MARION, IOWA

WELL BRED DUROCS

WE have the best lot of boars for sale that we have ever offered. They are sired by Chief Select, Jr., 103747; B. & S. Golden Model, 129083; Model Chief, Jr., 130319 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write us for prices if you want a good boar reasonable. Mention Homestead
BALMAT & SWALE
Mason City, Iowa, and Fredericksburg, Iowa.

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
J. E. BECKENDORF, WALNUT, IA.

DUROC JERSEY Boars—a yearling by King The Col. and Red Col., a yearling by Whitehall Col. and out of Silkie. S. I. Welch, Cherokee, Iowa.

D. S. Polled Durhams, reds and roans, both sex. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

HENRY FESENMEYER'S GREAT

A WONDER-BIG JOE SALE

Clarinda, Iowa, Aug. 12, 1913

50 Head—27 Spring Boars sired by A Wonder and Big Joe—The Best I Ever Raised

A WONDER, THE MOST SENSATIONAL OF ALL BIG-TYPE SIRES.

I AM selling the greatest lot of spring boars sired by old **A Wonder** and **Big Joe** that has ever left my farm, and there are some great herd boar prospects among them (read the field note about these). I am selling some **Big Joe** sows bred to **A Wonder** that are sensational sows and I never sold anything better. Also some great **A Wonder** sows bred to **Big Joe.** Write for my great catalog at once, mentioning The Homestead. M. T. White will represent The Homestead at the sale and will look after any bids sent in his care. Address

HENRY FESENMEYER, CLARINDA, IOWA

COL. H. S. DUNCAN, AUCTIONEER.

. . . PFANDER'S . . .

BIG-TYPE POLANDS

The Greatest Offering We Have Ever Listed for a Public Sale

CLARINDA, IA,, WED., AUG. 13, 1913

King of Wonders, the Most Sensational Young Big-Type Boar Living.

48--HEAD--48

3 choice fall boars sired by A Wonder. 2 spring boars and 1 gilt sired by Big Ben and out of Mammoth Giantess Equal, the dam of King of Wonders. 5 choice spring boars by A Wonder, others by King of Wonders and other noted sires. A wonderful lineup of boars in our sale. 10 tried and yearling sows. 3 choice spring gilts. 22 summer and fall sows all bred to the sensational young boar, KING OF WONDERS. Buy a sow in this sale bred to this great and sensational boar.

The spring boars weighed some time ago 175 lbs., and you never saw so many herd boar prospects nor so many good sows bred to such a sensational boar. Write for our great catalog at once. Mention The Homestead when writing for catalog. Address

J. W. PFANDER & SONS - CLARINDA, IOWA

Col. H. S. Duncan, Auctioneer. M. T. White will represent The Homestead at the sale, and will care for any bids sent in his care.

LIVE STOCK AUCTIONEERS.

I KNOW THE DUROC.
I KNOW THE BREEDERS.
I KNOW THE BUSINESS.

COL. W. M. PUTMAN

TECUMSEH, NEBRASKA

I am in a position to make you money. Am now booking sales for fall and winter.

LEARN AUCTIONEERING

YOU can become independent with no capital invested. Write today for catalog of the World's Greatest School of Auctioneering.

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LEARN TO BE AN AUCTIONEER EARN $15 TO $100 PER DAY

Study at home. Thoro, practical mail course. Endorsed by the peer Auctioneers of the world. Big 40-page catalogue Free. **The National Auctioneering School of America,** Dept. 218 Lincoln, Nebr., U. S. A.

N. G. KRASCHEL

HARLAN, IOWA.

LIVE STOCK AUCTIONEER

I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

W. J. Thompson, Dorchester, Neb.
PEDIGREED
LIVE STOCK AUCTIONEER

PROPRIETOR Elmwood Pony Farm. Shetland ponies for sale. Write for dates and information.

LIVE STOCK AUCTIONEERS.

Be an Auctioneer

TRAVEL over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the actual practice school which opens October 6, 1913.

MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres.
1400-04 Grand Avenue Kansas City, Missouri.

OLIVER S. JOHNSON
The Iowa Auctioneer
TIPTON - Cedar County - IOWA

C. H. WOOD,
Live Stock and Real Estate Auctioneer,
Valparaiso, Nebraska.

GENE FAGAN, AUCTIONEER
PEDIGREED LIVE STOCK
153 SALES LAST SEASON
985 11th ST., MARION, IOWA

E. Z. Russell, Lincoln, Neb.
LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

W. B. CARPENTER
Live Stock and Real Estate Auctioneer

ALSO President Missouri Auction School, 1400 Grand Avenue, Kansas City, Missouri.

LIVE STOCK AUCTIONEER
CAREY M. JONES
14 N. Sacramento Blvd., Chicago, Illinois

B. H. Keck, Mt. Pulaski, Ill.
AUCTIONEER

WRITE for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

Z. S. BRANSON, AUCTIONEER
PURE-BRED LIVE STOCK AND REAL ESTATE
Office First National Bank Bldg., Lincoln, Nebraska

J. H. BARR, Hebron, Neb.
Auctioneer
Pedigreed live stock a specialty. Write for dates.

LIVE STOCK AUCTIONEERS.

D. H. CUNNINGHAM
LIVE STOCK AUCTIONEER

GRADUATE of Animal Husbandry Dept. at Ames. 8 years' experience and lots of good sales. For terms and dates address

D. H. CUNNINGHAM, WAYNE, NEB.
Care of Citizens National Bank

H. S. ALLEN, RUSSELL, IA.
LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

COL. H. L. IGLEHEART
Elizabethtown, Kentucky
LIVE STOCK AUCTIONEER

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PURE bred stock and farm sales a specialty. Am posted on pedigrees, individuality and values, been a breeder of pure bred stock the past sixteen years. Have held several sales of my own, besides crying sales for other people. Your patronage solicited, and fair and square treatment guaranteed. Write or wire for terms and dates, terms reasonable.

RED POLLED CATTLE.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles. Plattsmouth, Neb.

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

PRIZE WINNING RED POLLS

AN extra heavy milking strain of prize winning stock is the kind we breed. Stock for sale. Mention Homestead and address,
Geo. Haussler & Son, Holbrook, Nebraska

WANTED A few registered Red Polled heifers, bred to calve in September or October. Give price and address L. L. Woods, Grinnell, Iowa.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. H. Danforth, Little Cedar, Ia

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R
JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address
HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

POLAND CHINA SWINE.

COOPER'S SPECIAL 30-DAY BOAR SALE

WE have over **100 head of boar pigs of spring farrow.** We have 25 sows to begin to farrow in 2 weeks. We must have room for them. Hence, for 30 days we are going to sell these boars at prices they will bring on the market next fall, and they will be worth $40 to $100 each as breeders at that time. They are all immunized. We guarantee safe delivery and record them at

25 DOLLARS EACH

They are sired by Big Expansion (the 800-lb. son of the noted Dorr's Expansion), Big Bone 2nd (weighing 900 actual pounds, a son of Big Bone), Chief Leader (weighing over 500 lbs. at 14 months old), and Ideal Chief, and other noted boars. **The dams are sows weighing from 500-lb. yearlings up to sows of over 800 lbs.** If you are in the market for the biggest blood lines, from big sires and dams, send your check, tell us the kind of pig you want and we will send him or return your money. You will not buy such boars, such breeding, at the price again this year. Buy your boar now and save 20 to 50 dollars on him.

W. H. COOPER - - - - - - - - - **HEDRICK, IOWA.**

BIG BONE 2d 161497.

J. O. JAMES' SENSATIONAL PIG BARGAINS

I WILL book orders up to 100 head of spring pigs sired by my half-ton, **Big Orange, Ott's Big Orange,** who weighed 700 pounds on the scales just turned 19 months, **Big Sensation, Big Orange's King, A Wonder Giant** and **Gritters' Best.** All strictly big-type boars and out of extra big, long, heavy-boned matchless sows, many of them weighing from 700 to 800 pounds. These sows averaged 9½ pigs to the sow, many of them 10 to 13 pigs. I want you to write, describing just what you want. It makes it easier to pick the pig that will suit. I am pricing these pigs low for quick sale for July and August delivery, or for orders booked during July, or while they last. Must be bought during this month to get special price on them. Many of these pigs will be worth $100 to $150 by October. You can save from $75 to $100 by buying now. The early buyer catches the bargains. The dams of these pigs are sired by Big Orange, Big Sensation, Pawnee Nelson, Long King's Equal, Big Ike and Longfellow Jr. You can't beat sires, dams, pigs or prices. We guarantee our pigs to be as represented. Let me hear from you at once as orders are coming fast. Mention Homestead when writing. **J. O. James, Braddyville, Iowa.**

Faulkner's Famous Spotted Polands

"Are Leaders of Their Kind."

150 May and June pigs now ready to ship. The special price of $35 single, either sex; $65 pair, no akin; or $90 trio, no akin, will sell them all in the next thirty days. Start right with the kind of our forefathers. Mail your check with first letter. Everything registered.

HOMER L. FAULKNER - Owner Highview Breeding Farm - JAMESPORT, MO.

LAWSON'S SENSATIONAL BIG POLAND CHINA BARGAINS

THE home of the noted breeding boar, **Long King's Equal** (weight 965 lbs. in breeding condition, weighed in the presence of forty breeders). Sows bred to him and **A Wonder's Jumbo** for fall litters. **150 Choice Spring Pigs** that I am now offering at private treaty. Will not hold fall sale and will sell these out privately at less than half the money they would bring in a sale. Now is the time to get your bargain while the good ones are here. Write me at once for description and prices and mention Homestead.

JOHN B. LAWSON - - - - **CLARINDA, IOWA**

C. F. Adams' Big-Type Poland Chinas

I AM making special prices on spring boars and gilts for the next thirty days. I have a grand lot of them sired by **Mammoth Jumbo** by Big Jumbo, **Maid's Halvor 1st** (the sensational two-year-old son of Big Halvor and Long Maid), **Adams' Big Hal** by Big Halvor and **Long Columbia.** These pigs are out of my

Sensational Herd of Big, Smooth Sows

sired by some of the most noted boars of the breed. The prices I am making on these pigs are about one-third what they will be worth in a year from this time. Write me at once if you want a high-class pig at a bargain. Mention The Homestead when writing me.

C. F. ADAMS - - - - - - - - - - - - - - - **OWASA, IOWA.**

LONG KING'S SUPERIOR

ONE of the very greatest two-year-old boars in Iowa heads my herd. I have a few extra good big sows by P.'s IXL, bred to **Long King's Superior** and a few sired by **Long King's Superior,** bred to A Wonder Again due to farrow in August and September that I will sell worth the money. Annual boar sale Oct. 8, 1913. Write me for prices on bred sows, mentioning Homestead.

C. W. PHILLIPS - NEW SHARON, IOWA

The Blood of the Champion Columbus

WILL predominate in the great sale of Poland Chinas to be held at Central City, Nebraska, Thurs., Aug. 14th. 50 head, including 23 bred sows, 3 big boars including the yearling show boar, Columbus 2d, and 20 head of selected spring pigs sired by Columbus. Send for illustrated catalog to

R. B. BAIRD - - - - - - - - **CENTRAL CITY, NEB.**

Col. H. S. Duncan. Auctioneer.

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - - - - **KELLEY, IOWA**

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

KELLEY, IOWA

BIG POLANDS, THE JONES KIND

SOME extra choice spring boars, real big ones, sired by Jumbo the Great and other noted sires. They are all out of choice big roomy sows. If looking for real big stuff address mentioning The Homestead

ORVILLE O. JONES - - - - - - - **YORK, NEBRASKA.**

MORGAN'S EXTRA BIG POLAND CHINAS

AN excellent lot of spring boars on hand sired by the great boar, Long Sam by Sampson, and out of the $465.00 sow, Big Standard. Also others by Guy's Price Wonder, and other choice boars. They are out of as big sows as in the West and of the very best breeding. Mention Homestead and address

JOSHUA MORGAN - - - - - - **HARDY, NEBRASKA.**

BIG HERCULES

ONE of the very biggest of all the extra big ones is at the head of our Poland China herd. In our Oct. 23rd sale we will offer a few sows either bred or with breeding privilege to this boar. We have an extra select line of spring boars that we will offer at that time. They are by the great Gold Medal. Let us tell you of these big Polands.

J. T. R. NASH & SON - - - - - - **MINDEN, NEBRASKA**

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

J. D. Gates & Sons, Ravenwood, Mo.

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

BIG-TYPE POLAND BOARS

20 FALL BOARS sired by the 1,000 pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief. Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. Mention The Homestead when writing.

E. W. KREISCHER, MT. VERNON, IOWA

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to F.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

L. S. Fisher & Son, R. 1, Edgewood Iowa.

For Sale

EASY feeding big-type Poland China hogs. The prolific kind of all ages, either sex. Spring pigs for the next thirty days at $25 each. Fall yearling boars $40 and $50 each. Sows bred for August and September farrow $40 and up. We guarantee safe delivery and ship on approval.

J. B. HEISEL - - - GRINNELL, IOWA.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Poland China Herd Boar

BY BIG JONES, two years, also two fall boars and some spring pigs. Fair prices.

O. J. SATRE - - - - JEWELL, IOWA

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 300 to 325 pounds. I have spring pigs weighing 100 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment. The fall boars are vaccinated.

JOHN I. DRIPPS - - SPRINGVILLE, IA.

LINE BRED EXPANSION BOARS

SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address

C. B. Kneer, Stromsburg, Nebraska.

Pioneer Poland Chinas

49TH year at Iowa State Fair. Pigs for sale. Come and see me at pens 1, 2 and 3.

W. Z. SWALLOW - WAUKEE, IOWA.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

Big Poland Chinas

EXTRA big spring boars, best of Poland China blood and will be offered at farmers' prices, but good enough for anyone. Address

PERRY A. SNYDER - CARLETON, NEB.

WAYSIDE POLAND CHINA

Choice fall boars and open gilts big-boned, lengthy ones. Also spring pigs. Prices $20 to $40. E. J. Augspurger, Pulaski, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

ABERDEEN ANGUS CATTLE.

Alfalfa Herd Aberdeen Angus

WE now offer for immediate sale from the famous "Alfalfa Herd Aberdeen Angus" a few very choice bulls of serviceable ages, also a very desirable lot of females and young things. Readers of The Homestead searching for extra high-class breeding stock at prices well in keeping with the values offered, will be interested in what we have for sale. Write us or come and see us at once.

HARRISON & HARRISON - - - - INDIANOLA, NEB.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

ESCHER'S ANGUS BARGAINS

WE offer at private treaty **50** coming yearling Aberdeen Angus heifers, sisters in blood to champions and reserved champions at Chicago, 1911. Fifty imported females—most sired by our great imported bulls; 650 head in combined herds. Bulls of all ages, high-class herd headers for sale. Write or come and see

Escher & Ryan, Botna, Iowa. **Chas. Escher & Sons, Botna, Iowa**

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

BULLS ALL SOLD

I HAVE a few yearling and two-year-old Angus heifers for sale, also three toppy bull calves that were calved in January.

A. G. MESSER, GRUNDY CENTER, IOWA

When writing to advertisers please mention The Homestead.

HEREFORD CATTLE.

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead. **N. D. MYSENBURG, David City, Neb.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address

GEORGE D. HARRAH, NEWTON, IOWA.

10 HEREFORD HERD HEADER BULLS

AVERAGING 12 months old, weighing from 1,000 to 1,200, in good condition, now offered for sale. Intensely bred Anxiety 4th bulls with good bone, heavy hind quarters and droop horns. By Beau Gondoline, Rex Onward 4th and Bright Lad from Beau Donald 12th and Beau Brighton dams. We also have 50 head of the plainer sort of registered Hereford bulls. **A. SPOONER & SONS, MONDAMIN, IA.**

DUROC JERSEY SWINE.

COL. SENSATION 98291

THE SENSATIONAL BIG-TYPE DUROC JERSEY BOAR OF THE YEAR

WEIGHED 1,055 LBS. ON JULY 24, 1913

Watch for this great hog at the Iowa State Fair. He now weighs 1,055 lbs., and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best big-type boars you ever saw. Don't fail to see him at the fair this fall. Will be pleased to show him to you if you come to the farm.

J. B. ASHBY - - - - - - - - - - - **AUDUBON, IOWA**

I AM A CRIMSON WONDER 2d

(Grand Champion Boar at Sioux City)

THIS noted boar heads our herd and we will sell in our **August 7th sale** eight head of sows bred to him. Also sons and daughters of the champion boar, **Crimson Wonder Again, Col. Gano, L. E.'s Col.** and other noted sires. Send us your name, mentioning Iowa Homestead, so we can send you a catalog. Address

SWAN & ELLIS - - - - - **INDIANOLA, IOWA**

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mount's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th bred boar. Order at once, write or come see. Farm adjoins town.

A. T. BOSELY - - - - - - **FAIRBURY, NEBRASKA**

THE REXALL HERD OF DUROCS

WE bred and owned the grand champion, Critic B. We still have his sire, Dusty Critic 2nd and have some choice prospects by him. Cedar Grove Cliff, the first prize boar Kansas State Fair, also in use. He is a son of Lincoln Chief, the first prize boar, Neb. in 1911. We would like to hear from you if in search of some choice breeding stuff, and would like to meet you at the Nebraska State Fair.

DANFORD & DEWHURST - - - - - **ORD, VALLEY COUNTY, NEBRASKA**

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address

J. A. JACOBSON - - - - - **MARQUETTE, NEBRASKA.**

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address

E. L. BUSCH - - - - - - - - **SYRACUSE, NEBRASKA**

THE BEST IN DUROCS

WE have 15 fall boars sired by Disturber (H. E. Browning's great boar), S.E.'s Premier Col. and Captain Model: 60 March boar pigs sired by Disturber, S.E.'s Premier Col., Cherry Chief, High Col., Volunteer and Captain Model. Best lot of pigs ever on farm. If you want a boar write me. 14-months Red Polled Bull for sale. Mention Homestead when writing.

S. E. Eakle & Sons - Prophetstown, Ill.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.

JOHN KREBS - RIVERSIDE, IOWA

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.

HUGH M. FICKE, LONG GROVE, IOWA.

BIG DUROC BOARS

I HAVE for sale a fine lot of big, smooth March and April boars sired by I Am A Perfection Wonder, Sensation Wonder, Successor and King's Bud. Dams are sired by Chief Select, Golden Model II., Good E. Nuff, Ohio Chief II. and others as good. I know my pigs will suit anyone and my prices will also suit. Write me for prices mentioning The Homestead.

ED. FREESE - NORA SPRINGS, IOWA

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.

C. A. MOULTON, MORRISON, ILLINOIS

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.

E. CRABS - - - - ALEDO, ILLINOIS

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale, sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address

A. F. HAGER - - - - - AVOCA, IOWA

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder 2d and out of choice sows. Also some by the great Wells's Wonder. Prices to move these hogs early. Write today. Address

WM. BORNEMEIER - ELMWOOD, NEB.

DUROC JERSEY FALL BOARS for sale; also trios. reasonable prices.

L. L. DE YOUNG, SHELDON, IOWA.

MENAUGH BROS.

GARDNER, ILLINOIS.

Durocs and Polled Durhams

SEVERAL choice young bulls for sale at present. Best of breeding and choice individuals. Duroc pigs for sale at all times. Write for prices and description.

DUROC JERSEY BOARS

I HAVE a fine lot of fall and spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.

J. E. SMITH - - - - VICTOR, IOWA

YEARLING DUROC BOARS

I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices. R. R. Station, Tripoli.

M. S. PRATT. - FREDERIKA, IOWA

30 HIGH-CLASS

DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. Write me at once and mention The Homestead. Address,

P. O. WEBERG - DENISON, IOWA

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Addres.

Fred Swan - - - Missouri Valley, Iowa

37---DUROC JERSEY BOARS---37

I AM offering seven choice fall boars, thirty good spring boars for sale at prices ranging from $25 to $40. Get your order to me at once and get a good boar at a reasonable price.

HENRY E. WEGTER, SHELDON, IOWA.

DUROC JERSEY FALL BOARS

OCTOBER boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears.

J. C. PORTER - - - - OGDEN, IOWA

50 DUROC JERSEY BOARS

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr. Splendid boars at $25 and $30. Order now and get the best.

HEIKO GRUIS - - - GEORGE, IOWA

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write

WILL THOMPSON, R.F.D.2, JESUP, IOWA

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address **R. J. HARDING** - - - - - - - **MACEDONIA, IOWA**

SHORT-HORN CATTLE.

SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.

GEORGE D. HARRAH - - - - - **NEWTON, IOWA**

Choice Short-horn Bulls for Sale

WE are offering some very choice young Scotch and Scotch-topped bulls for sale. Some choice herd headers among the bunch Write or come and see us.

HELD BROS. - - - Mondamin Farm - - - HINTON, IOWA

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

LITTLE'S BATES

Short-Horns

BEST milking strains of the most noted and popular breeding of the Bates Breed. Choice bull calf for sale. Also breeder fancy Duroc Jersey hogs.

B. W. LITTLE - JANESVILLE, WIS.

Cedar Hill Short-horns

SOME excellent young bulls, sired by the 2,200 lb. Secret Hero; also a pure Scotch tried bull. Prices low for quality offered. We maintain milk records on many of our cows. Mention The Homestead.

IRVIN E. WILSON, BELVIDERE, NEB.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only t' . Write us your wants, mentioning The Ho . .

F. H. EHLERS - - TAMA, IA

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.

JESSE BINFORD & SONS, LISCOMB, IA,

SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

Choice Scotch Bulls

FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address

C. A. SAUNDERS, - MANILLA, IOWA

WAY SIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

G. H. BURGE - MT. VERNON, IOWA.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address

J. E. Barr, R. F. D. 4, Davenport, Iowa.

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.

W. M. MYERS - - BEAMAN, IOWA.

HAMPSHIRE SWINE.

PRIZE-WINNING HAMPSHIRE SWINE

I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy. Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

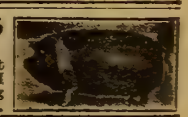
DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, DE KALB, IOWA.

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine



WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

Sunny Slope Hampshire Swine

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

Gausman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.

C. H. GAUSMAN - SEWARD, NEB.

BIG HAMPSHIRES Extra choice spring boars, also gilts for sale now. Best breeding, moderate prices. C. S. Bratt, Arapahoe, Nebraska.

Hampshires---

Bred sows $35. Spring pigs with pedigrees $12 to $20 per pair. Galloway Farms, Waterloo, Ia

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address

L. F. TETER - SHICKLEY, NEBRASKA

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address

E. S. McCANDLESS - THURMAN, IOWA

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address

Billie McFarland - - - Syracuse, Neb.

HAMPSHIRE HERD

CONSISTING of 40 head, tried sows, yearlings, spring boars and gilts. Address.

ED SHERMAN - - CORTLAND, NEB.

VALLEY View Hampshires. One large 2-year-old boar for sale. Quality and quantity. Breeding & belting first class. Fred Wheeler, St. Charles, Ia.

HORSES.

Oaklawn Stock Farm

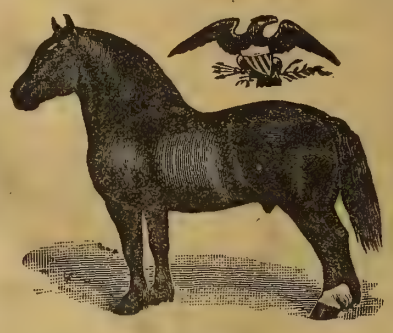
Breeds and Imports
Percherons, Belgians and Shires

See Our Exhibit at the Iowa State Fair

We want to get acquainted with everyone interested in good draft horses. We have stallions and mares of the above breeds for sale at all times.

GEO. EGGERT - - - NEWTON, IOWA

Special Sale of Percheron and Belgian Stallions
For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

IRVINEDALE BELGIANS
On Exhibition at the Iowa State Fair

40 BELGIAN stallions and mares imported and home-bred, mature animals, three year olds, two year olds, yearlings and colts. Some are from my summer importation. Plenty of size, quality and action. Good as anybody has, and a little cheaper. Belgian winners among them. I can suit anybody. Come to my barn at the Iowa State Fair and see them.

CHAS. IRVINE - IRVINEDALE FARM - ANKENY, IOWA

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PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

PERCHERONS

Raise more colts and make more horse money by having your own stallion. Buying now at breeders' prices from my big bunch of young studs, sound, broke to work, and with **big size**, will be the most profitable for you.

FRED CHANDLER
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YORKSHIRE SWINE.

LARGE YORKSHIRES Glits bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

CHESTER WHITE SWINE.

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent fall boars, some choice herd headers. Also 50 good spring boars. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - - - DENISON, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - - ELLSWORTH, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - - - PRESCOTT, IOWA.

CHESTER WHITE SOWS

TEN good fall sows, bred for August farrow, at low prices for quick sale. They trace to Lewis R., Keep On and other sires of show-yard note, and are bred to Iowa Pride, a Hoover bred hog. They are right in every way and in perfect health and thrift. Write or come and see them.
G. O. SATRE - - - - JEWELL, IOWA

CHSETER WHITE BOARS

I HAVE a fine lot of March and April boars sired by Joe O. K., Perfection Chief, Chief Combination, Silver Tip and Elmore's Choice that I will sell very reasonable. I guarantee the boars to please you or you can send them back. Mention Homestead.
H. T. D. HENDERSON - KEOTA, IOWA

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
W. H. DUNBAR, JEFFERSON, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
AMOS TURNER - WILBUR, NEB.

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

CHESTER WHITE BOARS FOR SALE
I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

C. C. EVANS
LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

FOR SALE—A choice lot of Chester White spring boars sired by Bob and he by Pathfinder. Prices made to sell. A. C. Orme, Nodaway, Iowa.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS
WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale. We are pioneer breeders of Nebraska. Write today.
J. W. COX & SON - ARAPAHOE, NEB.

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a grand bunch of mares and fillies. Mares are all in foal to imported stallions. I will show at the **Iowa State Fair** and want to meet all interested in good Belgians. See my exhibit. I will be pleased to meet you. Farm one-half mile from town.
R. F. FRENCH - - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

Purchase Percherons

NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.
BUY THREE IN ONE
See the mares in pasture or infield work.
See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

BELGIAN EMPORIUM OF AMERICA.

A CHOICE collection of **Belgian stallions and mares** constantly on hand. Several importations annually. Catalog on application. Address
HENRY LEFEBURE - FAIRFAX, IOWA.
Eight miles west of Cedar Rapids.

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

PALESTRO I. 52027(67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret(47526) by Theudis, by Besigue, by Brilliant III. and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

Percheron Mare For Sale

A DARK gray four year old, weight 1,500 lbs. A good worker, one of the wide, thick, heavy-boned kind and sound. Recorded. No better bred one in America. Guaranteed a breeder. Price $500.
AMOS HANSON - - - COLLINS, IOWA

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

300 **SHETLAND and Welsh ponies** for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill.

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Ea. a splendid animal and offered at extremely low prices. Call or write **V. W. HARMS, FAIRBURY, ILL.**

CLOSING-OUT SALE—August 20th. Percheron and French Draft horses. Catalogs sent on request after August 1st. W. J. Cunningham. R. F. D. No. 5, box 45, Pittsfield, Illinois.

When writing to advertisers please mention The Homestead.

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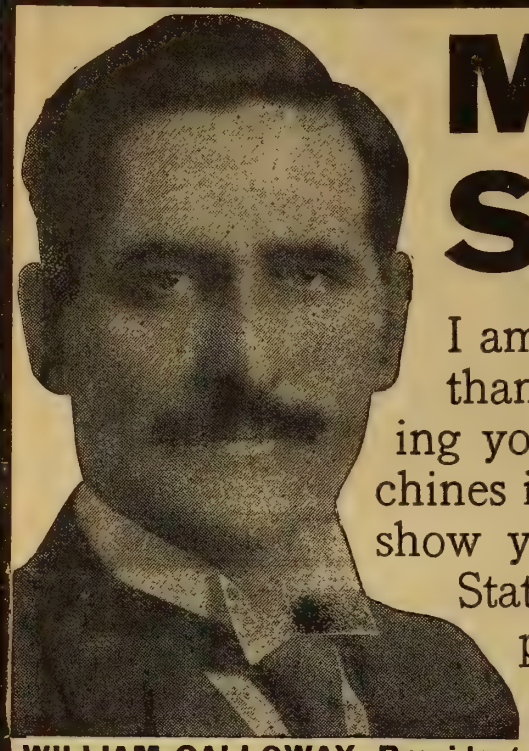
The Iowa Homestead

VOL. LVIII. NO. 33 DES MOINES, IOWA, AUGUST 14, 1913. WHOLE NO. 2914

A WAYSIDE COMFORT



WILLIAM GALLOWAY, President

Meet Me at the State Fair

I am going to give you a bigger treat than ever this year. Besides showing you as usual Galloway made machines in great numbers, I am going to show you (at the Iowa and Nebraska State Fairs—our ground space does not permit at the other fairs) just how Galloway machines are made. Don't fail to see our big exhibit at these fairs.

Here Are the Dates and the Fairs

Aug. 20-28—Iowa State Fair and Exposition, Des Moines, Ia.

Sept. 1-6—Minnesota State Fair and Exposition, Hamline, Minnesota.

Sept. 1-5—Nebraska State Fair, Lincoln, Nebraska.

Oct. 3-11—Illinois State Fair, Springfield, Illinois.

Oct. 13-18—Dairy Cattle Congress, Waterloo, Iowa.

Yes sir, I am going to take you on a trip through the Great Galloway Chain of Factories this year by moving pictures so you can see with your own eyes just how Galloway Gasoline Engines, Cream Separators, Manure Spreaders and other machines are made. This is a free trip. It won't cost you a cent—and I know you'll consider it one of the most valuable features you will enjoy at these Great State Fair Exhibitions. I only regret that I cannot show these pictures at all the State Fairs this year—but at the Minnesota and Illinois State Fairs the ground space that we were able to secure is only sufficient for our regular machinery exhibit—so for that reason alone we are compelled to limit this great feature to the Iowa, and Nebraska State Fairs and the Great Dairy Cattle Show at Waterloo. Just note the dates above and be sure to plan on attending some one of these Great State Fair Exhibitions. I am a believer in State Fairs. I believe they are one of the greatest educational factors in our present-day progress. They are a regular "Six Day" Agricultural Short Course—In fact, you will find there the best of nearly everything that has to do with better living and better farming—Make it a point this year to take in the "Whole Show" and above all don't forget that I've got a treat for you at the Big Galloway Exhibit.

You Have Probably Never Read Any Advertisement Quite Like This Before in Your Life

I don't call this exactly an advertisement, but rather a heart to heart talk to the readers of this paper. I like to now and then, come out and just sort of talk straight from the shoulder with no fol-de-rol or anything of that sort—just plain facts—I am taking this opportunity at this time to call especial attention to my Big Machinery Exhibit which may be seen at the several Big Fairs and Exhibitions mentioned above, because of the opportunity it offers me to make hundreds and thousands of friends that I might not be able to make in any other way. I consider it the great opportunity of my lifetime and I am glad it comes at least once a year to be able to convince many skeptical, conservative business farmers by being able to show my machines right up along side of hundreds of other makes and let you determine for your own self whether or not my claim for high quality goods and low prices are true. Now, then do me the favor this year to compare Galloway made Machines—with other makes—Give me this opportunity to convince you of the high merit of my machines, as well as my unequaled low prices. Let me have this chance to disprove once for all the misrepresentations of my competitors. Isn't that fair?

You know there are men who say Galloway doesn't have any factory—that Galloway Engine crank-shafts are made of cast iron and all sorts of things about me and my goods—and there are men who have believed these false statements. That's why this year I am going to show you not only Galloway Machines, but I am going to show you the Great Galloway Chain of Factories by actual moving pictures. I am going to nail all these lies once and for all time so hard that competition can no longer make them without injuring themselves instead of Galloway.

If you believe in fair play in business then do me the favor this year of letting me show you the real Galloway Factories—just as they are—actual moving picture photographs of the Great Galloway Factories which have been made possible by the loyal support of over 125,000 good, solid American farmer business men.

I Want You to See the New Galloway Low-Down Semi-Underslung Manure Spreader

The very latest product of the Great Galloway Chain of Factories. We have been building and perfecting this new incomparable spreader for the past year—you will have an opportunity to see and inspect it now at first-hand at the state fairs, for the very first time. It's a winner and you can well afford to put off buying a low-down spreader of any other make until you have first had an opportunity to see and examine this New Machine. It is built so simple and so light and strong that you can't help but want one the minute you see it. Yes sir, here is the very latest, most complete and best all-round low-down spreader ever built, for it contains every one of the tested and tried out patented Galloway features of construction. They are simply arranged to meet this new low-down, semi-underslung plan of construction. For that reason you don't take a single chance as you do in buying some of the new untried and untested underslung spreaders.

The New Galloway is a light draft, large capactity, low-down, two-horse machine, with clear cut under front wheels.

If you can't arrange to see it at the State Fair do not fail to write for my new spreader catalog showing it in detail. Will be glad to mail you copy at an early date, postage paid.

Write Me Today for My Catalogs

If you do not expect to attend the State Fairs write me today for my catalogs. You may want a good pumping outfit, then get my new Pumping Catalog. My 1¾ horse-power Air-Cooled Pumping Engine costs only $24.75. My 2½ horse-power Water-Cooled Engine costs only $39.50. If you want a larger size engine get my big Illustrated Engine Catalog showing my complete engine line. My Cream Separator Catalog tells all about the New Galloway Sanitary—just how it is built, what it is made of and everything you might want to know. Let me send you a copy today.

Don't fail to write me first if you are figuring on buying a manure spreader this fall—for I can save you a lot of money. Only $69.50 for my big complete Galloway Spreader.

Get my prices before you buy.

My big General Merchandise book is chuck full of bargains on implements and farm machinery of all kinds. Grain elevators and wagon dumps, litter carriers, and a complete line of house furnishings such as carpets, rugs, clothing, watches and nearly everything for the farm, home and family. It is a book of 1,000 bargains. Write for a copy today.

My New Galloway Sanitary Cream Separator Will Be There for Your Inspection Also

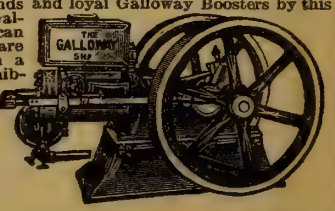
You will have a fine opportunity to compare my New Sanitary Cream Separator with all other makes—that's just what I want you to do—I'll take the chance if the other fellows will. In fact, I have got so much confidence in my New Sanitary Separator that I am anxious to have anyone who is figuring on buying a cream separator this year or next to take advantage of this fine opportunity of comparing the New Galloway Sanitary with the Old-Style High-Priced Separators. If I didn't know that the New Galloway Sanitary would compare favorably with any separator on the market do you suppose I would make this offer? I know it will and I only want you to be convinced just the same as I am. It's the most modern, most sanitary and closest skimming cream separator on the market today.

Again I want to suggest to any reader of this paper that if you cannot attend any of these State Fairs, that you send for my catalog telling all about the New Galloway Sanitary. Do it today.

Galloway Gasoline Engines of All Styles and Sizes Will Be There

You can take your choice of the size or style that meets your requirements best. You will find every size and style of Galloway Gasoline Engines we make on exhibition. If you want a complete pumping outfit, examine our pumping outfits first. If you want the best portable Sawing Rig ever built just look over the Galloway line for we've got just what you want, 5, 6, 7½ and 10 horse-power Sawing Outfits.

If you want a stationary or mounted engine we have them in 1¾, 2¼, 3, 5, 6, 7½, 10 and 15 horse-power sizes. Good, strong, powerful machines, and just as well built engines as you will find anywhere on the market regardless of price. Now, with a hundred or so other makes of engines, cream separators and manure spreaders on exhibition at these great fairs you have an unequaled opportunity to compare the different makes, prices, etc., so you can tell what machine suits you best. Did you ever stop to think of this big feature before? It's really an opportunity of a lifetime to compare all makes of farm machinery and get a first hand knowledge of their merit, advantages, construction and price. I know in making this suggestion that I am taking no risk—because I know Galloway Made Machines will stand this sort of "Acid Test" and come out unscorched. We have converted hundreds and thousands of skeptical, conservative business farmers every year at the State Fairs into friends and loyal Galloway Boosters by this opportunity they have had for direct comparison of Galloway Made Machines with all other makes. We can convert you and simply ask the opportunity. If you are already a Galloway booster we know we can count on a visit from you at our Exhibit. Make the Galloway Exhibit your headquarters—you will be courteously received and are always welcome. Don't fail to meet me and my Loyal Lieutenants at the State Fairs.



Your friend at Waterloo, **Wm. Galloway, Pres.**

William Galloway Company
17 Galloway Sta. Waterloo, Iowa

30 Days' Free Trial

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, AUGUST 14, 1913.

The Farm Exhibit Helps Farm and Man

How Agricultural Contests Generate Interest in Farm Affairs and Stimulate Pride in the Production of all Improved Products—By G. S. Ellis

ONE of the most successful and profitable ways in which an individual farmer may put his farm before the public as a place other than to toil, eat and sleep may be mentioned an exhibit of farm products grown on that farm and exhibited at the local county fair or the state fair. Several farmers of this state (Iowa) have to the writer's knowledge made such exhibits and have felt fully repaid for it by the results of which we shall mention later. It is an interesting feature which besides advertising what crops are grown on the farm, gives those not directly acquainted with the farmer some idea of the quality of the products as well. One thing is certain, if properly managed and shown to the best advantage, there is every reason to believe that the farm exhibit will prove one of the most paying propositions of a like nature from more than one point of view.

There need not be much cash outlay to get up such an exhibit, the more simple and free from frills the better, as it should be borne in mind from the start that this is to be an exhibit of farm products and not one of ribbons and artificial flowers. The question may arise, too, whether to exhibit the best specimens of all the different grains and grasses, vegetables and the like which are raised on the farm, or whether to use just good representative specimens of the average quality of the products raised on the farm and only those which are the more common or of economic importance to the farmer and likely to be to those who see the farm exhibit and are likely to want seed, grain, scions from the apple trees bearing such nice fruit or seed of such large, smooth and mature potatoes. This should probably depend upon the principal purpose for which the exhibit is gotten up. If it is for advertising purposes it would be better to exhibit good representative samples of what are actually being grown at home, while if the exhibit is more for competing for prizes for the largest and best exhibit of farm products it would probably be best to exhibit the best of everything grown on the farm if good samples are to be had.

Planning an exhibit of this kind will undoubtedly lead to considerable family interest and pride if the younger members of the family once catch the enthusiasm as well as see the pleasure in helping plan for an attractive exhibit of some of the choicest articles of the farm. The girls or young ladies may offer valuable suggestions as to how the articles should be arranged to make the exhibit the most attractive and to show off all products to the best advantage. The boys can or perhaps will offer their services in hunting for the best specimens of the different vegetables and the young men to selecting good samples of small grains and corn. The pumpkin, squash and watermelon patches will have to give of their best to the enthusiastic specimen collectors and all in all it may mean several evenings of pleasant planning for this perhaps their first attempt at trying to show others what they actually produce on their farm.

Aside from being educational to the family getting up the exhibit, and inspirational as well, there will be an impetus to do still greater things next year. Such an exhibit is likely to bring considerable seed trade to the exhibitor if he is inclined to take care to select good seed and to keep it in good marketable condition. Farmers have learned that as a rule it pays to buy as much of the farm seeds as near home as possible as those from a distance are liable to introduce weed seed and plant diseases foreign to the community as well as being taken from fields of unknown productivity. There should be a greater interest in choosing the best ears of corn from the best stalks for the next year's seed, for a more careful selection of grain and grass seed that the crops from which the exhibit specimens are taken may show as much improvement both in yield and quality as possible and that the exhibit itself may be better than the one used the preceding year. Incidentally the methods of caring for the crops will receive more attention. Fanning the seed, drilling it in after having treated it for smut will eventually be the rule rather than the exception.

The plan of farm exhibits is not all theory, either, since the illustration used in this article is of just such an exhibit actually used at a county fair in Iowa. It illustrates very well just what can be done in a general way to make a very respectable and catchy exhibit, one which will not only cause a passer-by to stop and take a quick survey, but one that will cause him to stop and make a detailed study of the various grains and grasses and vegetables and the signification of such an exhibit.

It will probably be well at least at certain hours of the day for the exhibitor to be present at his booth to answer questions regarding his methods of crop production, to take orders for seed grains, meet new prospective customers and renew friendships with the old ones as well as to be good natured and courteous in general. It might be well to have souvenir post cards in one's pocket to hand out to the people as they stop at the booth using perhaps an illustration of the exhibit itself or of the farm home, its buildings, or good pictures of some of the best animals kept on the farm thus advertising in another way the most important farm activities. If Poland China hogs are raised and Short-horn cattle it would be well to have pictures of some of the foundation animals. These are merely suggestions and may suggest others to the reader who is really interested in this subject.

Along with the souvenir post cards, if the exhibitor is a breeder of pure-bred cattle, sheep or hogs, there is a possibility that handing out booklets put out by the different live-stock breeders' associations advertising the breeds of live stock which are raised on the farm and from which the surplus stock is to be sold may be a good plan. In fact it would be well to use such good pictures of animals now in the herd or those which have been used as will call attention to this branch of the farming activities as well as to the crops and the like. By previous arrangement it might be possible, too, to give out circulars or bulletins put out by the state experiment station on such grains as the exhibitor is making a specialty of, thus giving good instruction as to the best ways of handling these crops after the farmer has obtained good seed either from the man giving this valuable information or from

THE BEST PRODUCTS OF A SINGLE FARM TASTEFULLY ARRANGED.

(Continued on page 16.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

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FARMERS MUST UNITE.

Upon its return from the study of the European systems of credit and co-operation among farmers, the American Commission on Agricultural Co-operation expressed the belief that European countries offer an important lesson to American farmers on matters to credit, production and distribution. Not only this, but European social organizations might be profitably imitated by American farmers, according to the views of this commission.

In its preliminary reports dealing with the question of credit and co-operation among European farmers, the commission says:

The commission is deeply impressed with the vital importance of a thoroughly organized and united rural population. In this respect the countries of Europe offer a lesson which may not long be disregarded in America without serious consequence.

The agricultural interests of most of the European countries visited by the commission are organized along one or more of the following lines: Credit, production, distribution and social organization for the betterment of country life.

Organizations for the provision of credit facilities for European farmers followed the natural division into short-time personal credit and long-time land mortgage credit. The organizations for the provision of personal credit facilities are as highly developed as are the systems of commercial banking. The prevailing rate of interest paid by the farmers for short-time loans is from 4 to 5½ per cent. The terms offered European farmers are generally better designed to meet the peculiar requirements of agriculturists than are the terms obtainable today by the American farmers.

The personal credit organizations have the form of co-operative societies. Very often the members of these societies assume unlimited liability for the debts of the society, while in other cases the societies take the form of limited liability. As a rule in European countries the law makes little or no provision for exemptions of any kind. These short-time credit societies furnish cheap, safe and elastic credit to their members by reason of their control by farmers and are organizations exclusively in the interest of farmers who operate them at nominal cost and without seeking dividend profit to such societies.

The organizations for production and distribution of farm products follow co-operative lines. Farm products are sold by the producer at a relatively higher price and are bought by the consumer at a relatively lower price because the cost of distribution is considerably lowered by co-operative marketing, which results, also, in improving the quality and uniformity of farm products and in promoting more business like methods in farming operations.

It is the opinion of many of the leaders of this movement in Europe that the question of rural credit ought not to be divorced from co-operation for business purposes and the general organization of community life in rural districts. In some European countries visited, agriculture and country life interests generally are thoroughly organized and co-ordinated. The studies of the commission emphasize the necessity or defining the functions, on the one hand of the government, and on the other of voluntary organizations, in promoting the development of country life.

In some of these countries great emphasis is placed upon the value of voluntary associations and such state aid as involves governmental control over the activities of rural organizations is depreciated as tending to stifle the initiative of the people.

We are not looking for any revolution in our financial system as it affects farmers, nor do we look for any permanent good that may come from the wholesale introduction of co-operative methods as it affects production and distribution if all must depend upon the application of European methods to American conditions. We await the complete report of the commission with pleasure and shall from time to time present to our readers such information as we may glean from that report. New policies must find their way into the machinery of our affairs under wise leadership, otherwise all this clamoring after what is European will lead to disastrous ends.

WINTER WHEAT SUGGESTIONS.

According to asubscriber who has been exceedingly successful in the growing of winter wheat, the first essential in preparing the soil is to plow it early. This means that stubble land intended for wheat should be plowed immediately after the small grain crop is removed. Even though the ground is hard, on account of lack of moisture, it pays and pays well to plow it because the lumps will be mellowed by the August and September showers.

If the ground turns up lumpy it will require extra labor with a disk to bring the seed bed into proper shape, but all the work that is put on the surface means that the seed bed becomes firm and thus fitted ideally for rapid root development.

Going somewhat into detail in the matter of soil preparations and the methods of seeding this subscriber says:

Wheat ground may be plowed from four to six inches deep. It is not advisable to plow the ground shallower than four inches. In deep soil, such as creek bottom, it is often best for the farmer to use his own judgment in the matter. A safe rule to follow is to plow the ground deep enough to cover up the weeds and other refuse at a depth so the frequent disking and harrowings which will follow will not drag them to the surface.

After the whole field is plowed it should be disked, then harrowed until it is perfectly smooth and level. From the time the ground is plowed until the wheat is drilled the ground should be harrowed after every heavy rain. This keeps the weeds and grass down and at the same time prevents the ground from crusting.

Wheat should not be drilled too early nor too late. Around September 20th is the best time. Wheat which is put into the ground too early is apt to make too much of a growth before cold weather checks it. Early wheat is also more apt to become infested with the Hessian fly. On the other hand, wheat which is put in too late does not get rooted down properly before the ground freezes. There is danger of late wheat being winter killed.

One of the most successful wheat growers drills in about 100 pounds to the acre. It is essential to plant enough seed to get a good stand. Thin wheat is seldom profitable. The drill should be regulated to put in the seed at a good depth. A good time to drill the wheat is when the ground is just drying off after a rain. To get the best results the ground should be neither too wet nor too dry. It is often advisable to pasture wheat down in the fall when it gets to making too rank a growth. Properly prepared ground, good seed, drilling at the right time and a little attention afterwards will insure success.

The date mentioned by this subscriber, namely September 20th, may be a little too early in those sections where the Hessian fly has been doing damage to the crop and in this case the seeding may be done as late as the 1st or even the 10th of October. On the other hand in the northern half of the winter-wheat belt where the fly has not yet entered, better results on the average are obtained by seeding somewhat earlier than the date mentioned. Taking it one year with another, September 10th will be found to be an almost ideal time to sow, because when the crop is seeded at that time it produces sufficient root development to prevent heaving in the spring, which means that growth will start strong in the spring, a factor that is absolutely essential if maximum results are to be obtained.

THE PRACTICE OF SOAKING GRAIN FOR FEEDING.

A subscriber from Hamilton county, Iowa, appeals to readers of the Homestead for advice relating to the practice of soaking grain. He uses corn, oats and barley in his feeding operations and is undecided whether the extra labor involved in soaking grain results in sufficient increase in the gains to justify the practice or not.

It goes without saying that in the case of barley and oats where these grains are fed to hogs, it will pay and pay well to soak them for a period of twelve, or possibly, twenty-four hours. The only alternative would be to grind the grain and under certain conditions much can be said in favor of the latter practice when ground grain is sensibly fed.

We appeal to our readers for their opinion on this matter of soaking grain, particularly when it is intended for hogs and where such grains as corn, oats and barley are used. Wherever possible we would like some actual records in which the gains on a given bunch of hogs should be cited somewhat in detail and the method of feeding described minutely.

WHEN ALFALFA IS TOO THIN.

The beginner in alfalfa growing seldom realizes the great importance of getting an absolutely perfect stand right from the start. A half stand is practically of no value whatever, and that is why men who have attained just about this success send inquiries to this paper seeking ways and means by which their thin crop can be improved upon.

At this time there comes at hand an inquiry from Minnesota from a subscriber who has had two fairly good cuttings already this year, but is worrying over the large amount of blue grass and white clover that is present in the crop. In this case there is little more than half a stand of alfalfa, and his desire is, of course, to thicken it so that the blue grass will be killed out. This is typical of many inquiries received and we desire to say in the outset that there is only one remedy for a situation like this, namely to plow up the crop and start all over again. It is true that there may be sufficient growth of alfalfa and other grasses to justify leaving it a year or two, but where blue grass once makes a start in a thin stand of alfalfa it may be taken for granted that it will ultimately take possession of the soil. We can recommend no makeshift methods that will successfully supplement the thin alfalfa crop.

Alfalfa in the beginning is a delicate crop and for that reason it requires a very carefully prepared seed bed, one that is not only fine on the surface but well firmed as the result of frequent surface tillage. Where stubble land is plowed, after removing the grain crop, it wll pay and pay well to harrow the surface as many as a dozen times at least before sowing the crop the middle of August, and so much the better if it can be rolled and harrowing alternately, because this method of tillage results in an ideal seed bed. It goes without saying that in addition to perfect tillage methods the soil must be free from acid and the necessary alfalfa bacteria must be present in the soil, otherwise the crop will not make a vigorous growth at any time.

MELLOWING GUMBO LANDS.

In response to our recent request for practical advice from our readers on mellowing gumbo lands, one of our subscribers, W. E. Wagoner, of Saint Francois county, Missouri, submits his plan in the following communication:

Noting your inquiry in a recent issue of your paper concerning methods of dealing with gumbo soil I find it convenient to give the following as an absolute cure for the case:

The cause of the toughness of gumbo or any other soil is inadequate soil drainage. Soil if loamy must have air as well as moisture. The cause of inadequate soil drainage is that soil has been water soaked until it has become cemented and is impenetrable by water. If such soil is drained by tiling it will become loamy and more fertile. The tiling should be placed not less than two feet under the surface and the lines of tiling not more than four rods apart.

Unquestionably the plan here suggested will result in greatly ameliorating or mellowing the character of gumbo land. Soils that are naturally stiff in texture and at the same time are well supplied with vegetable matter become in time cemented as it were, the particles one to another. The passing of water from the surface soil to tile drains tends to cut small channels and this in turn paves the way for the deeper penetration of roots.

The growing of legume crops where these thrive on such soil tends to mellow them, but their permanent improvement must largely be brought about by the plan here suggested. It is true that in many cases soils are so close and tough in texture that drainage water reaches the tile drain very slowly in the beginning, but where a sensible drainage system is put down its effectiveness increases as the years go by.

IS THE FARM AUTO TRUCK PRACTICABLE?

Thousands of motor trucks are being used on the farms of the corn belt. In some cases these trucks are of the combination sort, being useful for what might be called passenger service as well as for hauling farm products. In some instances they are not designed for the carrying of passengers, but are used for heavy traffic only. As inquiries are received from time to time from men who are interested in the various types of motor trucks we are going to ask those of our readers who have had practical experience with these trucks to give the results of that experience through the columns of this paper.

In giving this experience we suggest that the uses to which each particular truck is put be enumerated, its horse power should be stated and if possible the expense in up-keep given, worked out on the basis of moving a given tonnage over a short distance. What are the highway conditions under which the truck is used? In what respect does the truck surpass the horse for certain kinds of haulage?

In addition to the giving of this information it will be a matter of real accommodation to our readers if those having experience with farm trucks will give some practical suggestions on their care and up-keep because we predict that the market for these vehicles will be greatly enlarged in the future and many readers of this paper will become owners of these motors.

THE FILTHY WATER TANK.

There is too much stagnant water used on the farms of the corn belt. It is an every day occurence to find water tanks covered with a green scum from which source comes the entire supply of water for cattle, horses and hogs.

It should be sufficient to simply call attention to the risk that is run in using this kind of water. Digestion troubles invariably result from this form of pollution and it is all brought about thoughtlessly though in some cases it may be the result of an attempt to economize in the water supply. The tank is not cleaned simply because the water must not be wasted at all hazard.

A peck of lime in the bottom of a ten or fifteen barrel water tank will keep the supply sweet though it goes without saying that all tanks should be cleaned out every two or three weeks during the period of hot weather.

Diluted lime water is not injurious to any class of stock, but on the other hand the results of using it are often exceedingly beneficial, particularly so in the case of hogs. Lime is comparatively inexpensive and can be used in this way to very great advantage.

MATURE CORN FOR ENSILAGE.

It is an irreparable blunder to fill the silo with immature corn. In times past the use of ensilage of this sort has in many cases disgusted men with the whole silo proposition. In the first place such ensilage does not have as great feeding value as that made from mature corn and in the second place it is apt to throw stock completely out of condition.

Corn contains the highest percentage of nutrients when it reaches a point where it can be said to be mature. This does not mean that it is ready for cribbing, but it does mean that the grain must be firm and in all probability the lower leaves will be turning yellow. If the fodder is allowed to get too dry the ensilage will not be sufficiently heavy to pack well and that is why the crop should be cut after grain has become well dented but before the upper and middle leaves are wilted. Rather than to make the mistake of putting up corn that is immature one had better use water while filling the silo with fodder that has become somewhat dried out.

We caution those who are putting up ensilage for the first time especially to guard against the storing of the crop while it is in a condition to develop too large a percentage of organic acids.

IOWA WOMEN AT IOWA FAIR.

The Iowa State Fair will offer a splendid outing opportunity to the rural women of the state. The women's and children's building, for which the legislature gave a generous appropriation in its closing days of their session in April, could not be erected in so short a time, but the contracts are all let and it will simply be a pleasure deferred until next year.

However, the directors have made the best arrangements possible to make the days pleasant, profitable and comfortable. Camp life may be enjoyed by those who can arrange to stay longer than a day or two, and it permits visitors to make a leisurely study of subjects holding particular interest. For those who cannot be away from home so long your attention is called to particular subjects and their time of occurence.

The Iowa Mothers' Congress, who are sponsors for the baby health contest, have arranged a program which ought to interest parents, and this will afford opportunity to hear men and women who are well known along their several different lines.

The baby health contest will be held in house tents and it is well worth all the effort made to see children examined for physical perfection and then hear lectures that will reveal the care and method of raising successfully "perfect babies."

Sunday, Aug. 24th, will be given over to religious training and if this does not attract one may find soulful contentment by listening to two well-arranged sacred concerts.

Monday, Aug. 25th, is the red letter day for rural folk, as you will note by the program. Just at this time when there is so much agitation on the school question and good roads it is well to obtain all the information possible that you may understand fully the practical character of such a scheme, the probable cost and the benefits.

Tuesday being old soldiers' day it is pleasing to note that out of deference to these fast thinning ranks, the day and the auditorium will be given over to them.

The governor of the state, Hon. George Clarke, will give the principal address Wednesday. Gov. Clarke displays genuine interest in the agricultural affairs. His plea for the better country schools in his inaugural address had in it a complete solution of the situation, for he argued that if the country boy and girl could not go to better schools, it was time to take the better schools to the country boy and girl.

Other men of high position will add their message, and Mrs. Charles Brenton, the state president, will tell what the mothers' congress is doing.

The culinary department is larger and better than ever. More premiums for the best bread, cakes, jellies, jams, pickles, etc., are to be given to both women and girls. With the best of ingredients to use, country women ought to bring home a greater part of the prizes.

Miss Knowles, of the Iowa Agricultural College, and her corps of assistants will give lectures and demonstrations and the suggestions for the lunch basket is surely timely with school days almost upon us.

There will be new features in the floral department and those who are successful with sweet buds should loiter a while in floral hall and see the contest of arranging the decorations for the luncheon and dinner table.

FACTS ABOUT PHOSHORUS.

In a bulletin recently published by the Illinois experiment station attention is called to the fact that the plowed soil of an acre of average land contains only 1200 pounds of phosphorus as compared with 35,000 pounds of potassium. When the policy of selling grain is followed the draft upon each of these elements is practically the same. When a system of live stock farming is followed more phosphorus than potash leaves the farm.

Thirty-five dollars invested in natural rock phosphate and spread upon an acre of land means that the amount of that element contained in the plowed soil would be doubled. On the other hand it would cost $1,000 per acre to double the amount of potassium contained in the plowed soil of an acre.

Phosphorus can be purchased for three cents a pound in the form of fine ground natural rock phosphate, for ten or twelve cents a pound in steamed bone meal or for twelve to fifteen cents a pound in the form of acid phosphate. According to Dr. Hopkins it can be used with profit in any of these forms, but the results obtained by his experimental work indicate that for a given sum of money invested the natural rock phosphate will give the greatest profit. An application of 1,000 pounds per acre every four years, Dr. Hopkins claims, should be made.

Farmers of the central West must make up their minds sooner of later that the sensible application of phosphorus is after all the keynote of the whole fertility problem.

HOLD FAST TO CATTLE.

The Homestead desires to say just a word to those who are now becoming just a bit disturbed over the present dry weather and who are in a mood to sell off close on cattle, fearing another crop shortage and a reduction in prices for live stock. By all means hold fast to your cattle. In the past ten years the population of this nation has increased 10 per cent, while the cattle population has decreased 30 per cent. This in itself ought to be proof enough to convince any man that there is now a great shortage in beef and that beef is sure to continue high in price.

There are circumstances under which we are inclined to think that almost any sacrifice is justifiable. Concerning cattle, when pastures are so short that stock cannot longer get a living and water fails so it has to be hauled for some distance, a man is readily convinced that he should sell down close on cattle. He cannot see, just then, anything ahead in keeping cattle that must be fed on pasture and that must be watered out of a tank on wheels. Years ago, when cattle were plentiful, the sooner sold under such circumstances the better, but now it is different. With a great shortage to start with, should there be a rush to market because of dry weather, at the wind-up the shortage will be even more pronounced and prices will be higher and higher. To sell now at sacrifice prices is a poor business policy and no man should do it, not even if he has to help the pasture a little with dry feed and has to haul the water that cattle must have.

In time of dry weather there are folks who are inclined to look only for the worst. It does not seem to make any difference how well fixed, financially, a man may be, if he is inclined to look only for the worst to come he is apt to make almost any sacrifice in order to put himself in what he imagines is the best possible condition for going through the dreaded period. He always looks back to those sacrifices with regret, yet he seldom profits by the mistakes of the past when similar conditions arise in the future. There is not a man to be found who does not regret some sale made in the past under stress of dry weather conditions. This refers particularly to cattlemen. They can look back and see that they made a sale when conditions were just at their worst, and can figure a much better deal had they waited a few days or weeks; but let dry weather come again and it is surprising how many of these men will repeat their mistakes of the past. Don't sacrifice cattle now. There is no need of it, except where impossible to obtain water and feed, for the cattle shortage means that everyone who holds on will be assured a high price.

Relation of Climate to Corn

By C. E. Carter, Missouri Agricultural College.

CORN is grown under more widely varying conditions than any other cereal grain. It is grown in every state of the United States, also in Canada and Mexico. But the bulk of the production is confined to the seven principal corn states of the Mississippi Valley—Iowa, Illinois, Missouri, Kansas, Nebraska, Indiana and Ohio. This is due to climatic conditions shown by the fact that there are many other places with equally as favorable soil conditions, but with a climate that is not so favorable to corn growing. Often the soil and temperature are all right, but the rainfall is either not enough or not properly distributed over the long growing season which is required for corn.

Corn adjusts itself readily, though rather slowly, to changes in its environment. Changing the environment will cause three marked changes in the plant: (1) time of maturity and hence the length of the growing season, (2) size and nature of the stalks, (3) yield and character of the grain. According to one writer the rate of the shortening of the season as we go north of a given latitude is, in general, about one day for each ten miles. The reverse is true as we go south.

The length of the growing season is the most important factor in determining the size of the stalk. The long season tends to induce large tall stalks and large yields of fodder and grain. The shorter seasons of the north seem to induce small stunted stalks and smaller yields of grain. The corn grown in the south tends to have large ears with long, deep kernels, which are inclined to be starchy, and have deep indentions. In the north the kernels are shallow, smooth and horny in composition. Corn will change from one of these extremes to the other by a gradual moving in the opposite direction, that is, if north move south and vice versa.

The Nebraska Experiment Station carried on some experiments along this line. They took seed from two varieties, Snowflake White and Iowa Gold Mine, which they obtained from Iowa, and grew them in Nebraska for two years. The third year seed was obtained from the original plot in Iowa and all were planted in adjacent plots in Nebraska. In the Snowflake White variety, the stalk from the seed that had been grown in central Nebraska for two years had decreased almost a foot in height, the ears were 8.8 inches lower on the stalk and the shank two inches shorter with an average of 1.2 fewer leaves. The weight of both stalk and leaf was found to be heavier from the seed just from Iowa. But the proportion of the ear to the stalk was greater from the Nebraska grown seed. The Nebraska corn averaged 200 square inches less leaf surface which was expected in the dryer climate. The yield of grain was in favor of the home-grown seed.

Similar conclusions were indicated from variety tests. Of twenty-two varieties tested by co-operative farmers in various parts of the United States, thirteen were from Nebraska, four from Illinois, two from Iowa, one from Indiana and two from Minnesota. In these experiments not one of the nine varieties from outside the state took first or second average results of the state. This does not indicate that seed from other states is poorer than Nebraska seed, but the low yield is due to the fact that the seed is not at first adapted to Nebraska conditions.

Arkansas also carried on some experiments along this line. In these experiments the object was to test the comparative yields of the same varieties grown at different latitudes. Corn from several different states and from several parts of each state was collected and then divided into three divisions according to the latitude from which they came. Samples grown north of 38 parallel were called "Northern Grown," south of 35 parallel as "Southern Grown" and those between 38 and 35 parallels as "Middle Grown." The latter corresponds to Fayetteville, where the experiments were carried on. All the plots were treated exactly alike.

In many instances the yield of the same variety differed greatly and in some instances the yield from one sample was more than twice that of another though each was grown in approximately the same latitude. The experiments showed that 107 samples of eighteen varieties from seed grown in the northern section yielded 22.79 bushels an acre; 74 samples of twenty varieties from seed grown in the middle section yielded 32.41 bushels an acre; and forty-one samples from seed grown in the southern section 29.5 bushels an acre. This shows that corn will yield better in its own latitude. In every instance the greater yield was obtained from seed gotten within five miles of Fayetteville.

In the production of a corn crop water is of utmost importance. This determines or limits the crop more than any other factor. Corn does not require so much water for each pound of dry matter, compared to other smaller grains, but the total yield of this crop more than balances such a consideration. In a wet season the stalk continues to grow and is more apt to be killed by an early frost. Dry seasons induce smaller growth and earlier ripening.

In growing corn it is necessary that the rainfall be at the proper season of the year. Large amounts of rainfall during the winter do not insure a large corn crop. The peculiar adaptability of the climate of the corn belt states to the growing of corn is due to the greater part of the rainfall coming in the crop season.

Corn makes its most rapid growth during the months of July and August. Therefore during these months, while the corn is tasseling and forming ears, the greatest amount of rain is needed. Usually the amount of precipitation during the month of August will determine the size of the corn crop. Take for example Iowa, one of the best corn growing states. In the year 1903 the rainfall for the summer season was 12.15 inches or thirty-nine per cent of the yearly rainfall; during the six crop months they had 22.48 inches or seventy-one per cent of the total rainfall; during the four critical months—May 1st to September 1st—the average of the state was 16.29 inches or fifty-two per cent of the total yearly rainfall. By these figures it is seen that the bulk of the precipitation comes during the months when it is most needed.

Corn is a semitropical plant and requires a large amount of sunshine and a relatively high temperature as well as a large amount of rainfall distributed during the growing season. According to charts from Iowa, high temperatures and large amounts of rainfall do not run together. This conclusion was reached by averages and probably can be explained by the fact that on a year with a heavy rainfall the temperature would go up and down more, while with a light rainfall the temperature would remain high for a longer period and thus bring the average temperature up.

The average mean temperature for Iowa is 47.5 degrees. During the summer the average is 65 to 75 degrees. The average for the four critical months—May 1st to September 1st—runs from 60.2 to 71.6 degrees. These are the months in which the corn crop is made. For these averages and for the rainfall the same year, as given in the foregoing, Iowa had an average corn crop of 32.05 bushels an acre.

The temperature is discussed above under the "Relation of Climate to Corn" showing how it affects the character of the ear and stalk. It was shown that a larger ear and stalk was grown in the south, the ear having large, deeply-creased kernels and a high starch composition. In the north it was shown that the stalk was smaller and had fewer leaves, the ears smaller, the kernels smooth and very horny in composition.

Corn can be grown under widely varying climatic conditions, but is best adapted to the climate of the Mississippi valley. It is better to plant seed grown in your immediate locality because corn must adapt itself to a locality before it gives the best results. Precipitation was shown to be very important especially the seasonal rainfall. July and August are the critical months of corn growing and the rainfall during these two months determines the corn crop to a large extent. Corn must have lots of sunshine for its best development; also it requires a long season or it tends to be stunted and will develop small ears with horny kernels.

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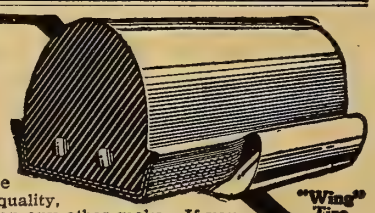

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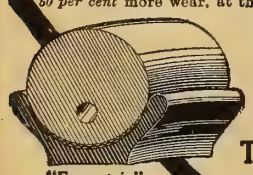
"Eccentric" Cushion Tire

A light vehicle or runabout tire that gives exceptional service because of the depth of the retaining wire in the rubber. The retaining wire is buried *below* the center—to a depth that insures *50 per cent* more wear, at the same time holding the tire firm in the channel. Not only means more tire service, but greater resiliency—*the easy-riding* qualities for which Goodyear Eccentric Cushion Tires are noted. These tires are made of high-grade, very tough, yet resilient rubber. They are practically trouble-proof, neither cracking, loosening nor splitting, as do common tires.



"Eccentric" Cushion Tire

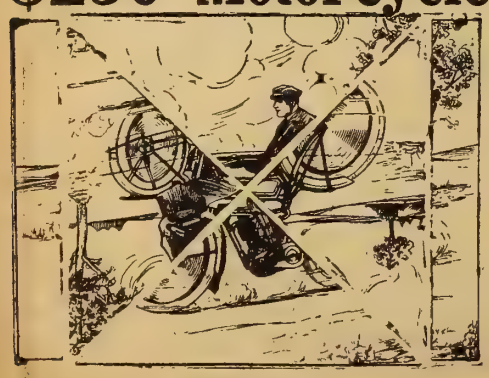
Our "Wing" Tire

This tire is characterized by a patented "Wing" feature that keeps dirt and grit out of the channel. Damage is thus prevented.

Because of this feature, Wing Tires give about *twice* ordinary tire service. They stay on—wear longer—are amply resilient because of quality of rubber—afford carriage owners with the best tire service that money can buy. Don't accept tires *almost* as good. Insist on Goodyears! Send today for our latest book on Carriage Tires.

The Goodyear Tire & Rubber Co., Akron, Ohio
Branches and Agencies in 103 Principal Cities

$250 Motorcycle Given Away



Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Popular Company
507 Popular Bldg. Des Moines, Iowa

FARM FURROWS
TURNED BY A PRACTICAL FARMER

Folks are raising calves off of cows better than they used to do. The oil meal and prepared calf meal we have nowadays helps out skim milk wonderfully, and it pays well to use it, as much as calves are worth.

Mrs. Furrows complains that the price of spring chickens is too low in comparison with the price of other meat. Last week she was offered but eleven and twelve cents a pound for fine yellow-legged Plymouth Rocks, and refused to sell at that price.

An effort is still being made to reduce the cost between the producer and consumer on all the necessities of living, but as yet I cannot see that much reduction has been made. Take the case of the above mentioned chickens, the consumer would likely be called upon to pay three times as much as Mrs. Furrows was offered.

The lone tree standing in a cornfield has taken a big toll this year. I have some that have already taken more from the corn than the trees could possibly be worth for any purpose. A hedge is reaching still further into the corn.

A great amount of the dirt grade is swept off by winds in the form of dust at this season of the year. There is now so much dust that a cloud of it rises behind each auto and rig. Wind carries it off the grade.

A neighbor has five sows soon to farrow. Some years ago I gave up raising summer pigs. I want them to arrive in the spring or long towards fall. August weather, as a rule, is hard on young pigs.

It will soon be time to think about corn cutting. It is time right now to think about repairs for the corn binder, if repairs of any kind are needed. Your local dealer may not have on hand just what you want if you say nothing about it until the day before you are ready to start the binder.

Fine dust is hard on the bearings of a corn binder, and, for that matter, on the bearings of any machinery, but the corn binder usually has to take more dust than any other farm machinery. I use a good, thick oil on my corn binder, and use plenty of it. If there is a bearing that gets too much dirt and dust, try making a leather boot or cover for it.

An evergreen tree, particularly a cedar, when once established can stand a lot of grief and make a good growth. Dry weather has little effect on them but too much manure they cannot stand. Making a stock lot out of the windbreak is a great mistake.

The rattle of a wagon or buggy wheel should be stopped as soon as possible or the wheel will be permanently injured. I dislike very much to have comparatively new wheels "set" by the blacksmith, as every time a tire is shrunk on the wheel is dished. Preventing a looseness of tires by keeping the wheels well soaked with boiled oil is cheaper and better than neglect and frequent tire setting.

Cutting out the muffler is a bad habit for motorists to acquire. Tests show that the increase of power due to cutting out the muffler is so small as to hardly be accounted for in fractions. The muffler cut-out is all right for testing the firing of the cylinders and for adjusting the carburetor, but otherwise it adds only noise to the machine and often frightens horses.

High speed machinery makes farming more dangerous than it was while big muscles were all that was needed to make a success of farming. Corn shredders, silage cutters and other power machines have no respect for "main strength and awkwardness."

The sour smelling swill barrel is not found on as many farms as formerly. This is partly due to the fact that we are slowly learning to know that the hog prefers clean food and a clean place to eat it in and partly to the fact that a sour smelling swill barrel is no longer tolerated near a well regulated home.

Never strike a milk cow with anything heavier than your fist if you strike her at all. Investigate and remove the cause of her kicking and if this cannot be done, sell her. Life is too short and feed too precious to be wasted on a kicking cow.

The claim that owning and driving an automobile will make a man young again must have some truth it it. If we are to judge by the driving of some auto owners the owning and driving must have turned them into ten-year-old "kids" again.

The tongue truck on the binder no doubt adds a little to the draft of the machine but it more than makes up for this by taking the jar and weight of the tongue off the horses' necks. The trucks made especially for the binder give better satisfaction than to try to make the pulverizer truck do the work.

It is an easy matter to write down on paper just how to put up grain shocks that will stand up and shed water, but it is not so easy to go into a field where the grain was lodged and "make good."

There are different ways of building stacks that will shed water, but the real good stacker is the one who can build a stack that will settle so as to give a better slant to the bundles until the outside makes a perfect roof. Learn the "knack." It is easy to learn and pays well.

Most Beautiful Durable Economical

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Quality
CARRIAGES

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104 W. First St., Des Moines, Ia.

Lauson FROST KING
Gasoline and Oil Engines

BUILT up to a standard, not down to a price. Made for long and satisfactory service. Have all modern improvements and contain more drop forged and case hardened parts than any other make. High grade built-in Sumter magneto, perfect balance, no vibration. The Frost King is a QUALITY Engine for farmers who know the value of good tools. Portable, Semi-Portable and Stationary 2 to 50 H.P. Backed by exceptionally strong guarantee. Write for free book "THE POWER THAT BACKS THE MODERN FARMER" and name of nearest dealer.

5

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202 Northwest St.
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30 Days FREE Trial
Full Set **STEEL WHEELS**

Empire Steel Wheels are strongest, most durable, best in every way. If they were not we would not dare ship a full set for a 30 days' free trial. We know that actual use will *prove* how indispensable they are. Will make your old wagon good as new—lighten your work—make hauling 25% easier—save money because they never need repairs. All sizes, fit any axle. Write for big free book and particulars of our Free Trial Proposition; also special offer on new model Empire Handy Wagons—20 styles. Write today.
EMPIRE MFG. CO., Box 85B Quincy, Ill.

Zimmerman Pitless Wagon Scale Extra Heavy

solid steel frame; double strength steel platform beams. All bearings completely protected from mud. The strongest and most accurate weighing scale on the market; guaranteed for 10 years. For catalog and discounts address Dpt. IH

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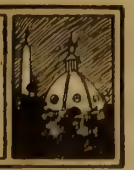
CURRENT EVENTS



PRESIDENT Wilson makes it plain that he will not recognize the Huerta government in Mexico, thus refusing to put a premium upon assassination and treachery. The proposal that Huerta resign, and a provisional president be appointed until the October election, has been turned down by Huerta himself, who shows no intentions whatever of relinquishing the office he obtained by the assassination of the duly elected president and vice-president. Ambassador Wilson is strongly in favor of recognizing Huerta, but President Wilson is even more firmly opposed, and the president holds the whip hand, inasmuch as he determines the foreign policy. The president has accepted the resignation of Ambassador Wilson, who is out of all harmony with the administration and who has been guilty of criticising his chiefs and their actions in newspaper interviews. Rather than appoint a new ambassador in the unsettled condition, the president appointed John Lind, former governor of Minnesota, as his special representative to go to Mexico, investigate conditions, try to conciliate the opposing factions and tide matters over until the October election. President Huerta immediately announced that he would not receive Gov. Lind, unless he came as a regular ambassador and prepared to recognize the Huerta government, giving rise to a situation which Senator Bacon, chairman of the foreign affairs committee in the senate, publicly declared to be the "gravest in years, much greater than confronted us when the Cuban question was here." The situation is now so critical that developments of the most serious nature may be expected almost any moment.

WITH the opening of the Panama Canal come complications in the long established Monroe doctrine which promise to develop into critical situations. Not long ago this government learned of the plans of a European government to obtain control of the canal site and rights in Nicaragua, which led to Secretary Bryan's proposed treaty with Nicaragua buying the exclusive rights to the canal site and to an important naval base in the Bermudas, while Germany and Denmark are both proposing to strengthen their West Indian holdings and figure more prominently than ever in both commercial and governmental affairs in Central America and the islands thereabouts. Under the Monroe doctrine the United States denies to any foreign nation the right to intervene in any of the neighbors of this country, giving to the stars and stripes exclusive control over the United States and guardianship over the adjoining nations. The Monroe doctrine would be assailed by any foreign country entering into a treaty with Nicaragua, for instance, for canal rights and grounds, while Great Britain's proposal to establish an important naval base so near to this country is an infringement of the American policy which has stood unassailed for so many years. The foreign situation, as confronted by the Wilson administration, is extremely critical and while no hostilities may be expected, it is a time for nice diplomacy, the effects of which will be felt for many years to come.

THE secretary of the treasury, Mr. McAdoo, has ordered between $25,000,000 and $50,000,000 of the government funds deposited in the national banks of the West and South to facilitate the movement of the crops. Federal, state and municipal bonds and commercial paper will be accepted as security for the money, on which the banks will pay two per cent interest. The motive of Secretary McAdoo is to anticipate the money stringency in the late summer and fall, which invariably accompanies the marketing and movement of crops, especially when they are unusually large, as the harvest now forecasts. The additional deposits will be placed with the national banks in the two or three principal cities in each of the states were harvesting now is in progress and where the demand for money for moving the crops most conveniently can be met. The secretary said it would not be practicable to scatter the deposits among the smaller cities, especially in view of the character of the securities necessary. The banks will be required to return the money to the public treasury when the crops have been moved. The present suggestion is that fifteen per cent be repaid in December; thirty per cent, in January; thirty per cent in February and twenty-five per cent in March next.

TO DESTROY WEEDS IN WALKS OR DRIVEWAYS.

It is a rather tedious process and hard on tools to remove weeds or grass from walks by hoeing or cutting them out between the stones, but there are a number of chemicals or sprays which can be used with good success.

1. Take one pound of salt to one gallon of water, boil and apply while still hot, or dry salt may be used and then watered in, but this will color the walk more or less and is not quite so effective.

2. Crude carbolic acid, a half ounce of the liquid to one gallon of water will also destroy ants.

3. Sulphuric acid, 4-5 ounces of the acid to one gallon of water. Best applied with a wooden pail.

4. Take one pound of powdered arsenic to three gallons of cold water, boil and stir well. Then add seven gallons of cold water with two pounds of sal soda.

5. Lime and sulphur. Ten gallons of water, tweny pounds of quicklime and two pounds of flowers of sulphur are boiled in an iron vessel. After settling, the clear part is dipped off and used when needed.

There are also a number of commercial weed killers in the market which can be bought at seed stores. Applications of weed destroyers should best be made on a hot day or right after rain, with a watering pot (sprinkler), and one good application is usually sufficient for the season. As the most of them contain poison, either arsenic or acids, great care should be exercised in handling them. —[Julius Erdman, Colorado Agricultural College, Ft. Collins, Colo.

The census bureau recently issued a "gloom" statement regarding turkey culture. According to its report, there were 6,584,865 turkeys on farms in the United States in 1900 and only 3,688,708 in 1910. The number of ducks decreased with almost similar speed. In 1900 there were 4,785,810, while in 1910 there were only 2,906,525. The geese, never plentiful, have gone more slowly. In 1900 there were 5,676,788, and last year there were 4,431,980. Poultry is doing well. In 1900 about 233,566,021 graced the poultryman, and in 1910 the number of the feathered tribe had increased to 280,345,133.

Ask your neighbor to subscribe for The Homestead.

Tire Prices Down

Now the Costliest Tires—No-Rim-Cut Tires Cost You No More Than Others

Goodyear No-Rim-Cut tires used to cost one-fifth more than other standard tires. The reasons are told below.

These tires, despite that extra cost, came to outsell any other. As our output grew the cost came down.

Now you pay no more for No-Rim-Cut tires than for any other standard tire. Yet notice what you get.

Rim-Cutting Ended

You save in these tires all the ruin of rim-cutting. And that's an enormous item.

We had public accountants lately gather statistics. They examined thousands of ruined clincher tires—the old-type hooked-base tires. And they found that 31.8 per cent had been discarded for rim-cutting only.

That's almost one in three.

No-Rim-Cut tires, made by a costly method which we control, end that loss completely. That we guarantee.

Save Blow-Outs

We give these tires the "On-Air Cure." That is, they are final-vulcanized on air bags shaped like inner tubes.

That's to save wrinkling the fabric.

All other tires are vulcanized on iron cores alone. The fabric often buckles. And that buckled fabric leads to countless blow-outs.

This "On-Air Cure," which we alone employ, adds to our tire cost $1,500 per day.

Save Loose Treads

We use another costly method to prevent tread separation. The rights to it cost us $50,000.

Millions of dollars have been lost to tire users through the loosening of the treads. No other tire in the world employs the effective method we use to combat it.

Yet No Extra Price

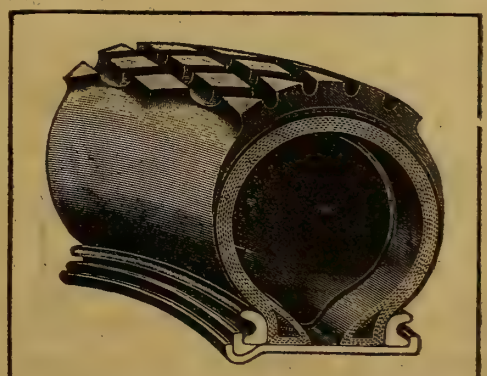
You get all these savings in No-Rim-Cut tires. All these features used by no one else. Yet no other standard tire today costs less than No-Rim-Cut tires.

The reasons are mammoth output, new factories, new equipment. In one item alone—in overhead cost—we have saved 24 per cent.

Another reason is that we keep our profits within 8½ per cent.

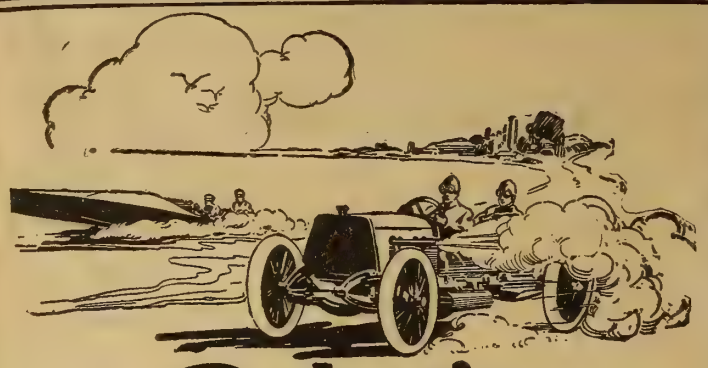
Judge for yourself if tires lacking these features are worth the Goodyear price.

Our dealers are everywhere.



GOODYEAR
AKRON, OHIO
No-Rim-Cut Tires
With or Without Non-Skid Treads

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities — More Service Stations Than Any Other Tire
We Have All Kinds of Rubber Tires, Tire Accessories and Repair Outfits
Main Canadian Office, Toronto, Ont.— Canadian Factory, Bowmanville, Ont.



Polarine

FRICTION REDUCING MOTOR OIL

For Any Kind of Motor—In Any Kind of Car or Boat

An oil that's right is right in every type of motor, whether in a pleasure car, a motor truck or motor boat. The universal oil is Polarine—used everywhere, and sold at cross-roads stations. Users never need go far without it.

Maintains the correct lubricating body at any motor speed or heat, and flows perfectly at zero. Penetrates to the remotest parts of the motor, protecting every friction point.

Cars run for years without any depreciation when Polarine is used. **It's the best insurance you can buy,** and costs the least.

The World's Oil Specialists make it after 50 years' experience with every kind of lubricating problem and a study of all makes of motors produced. **Polarine is the right oil.**

STANDARD OIL COMPANY
(AN INDIANA CORPORATION)
Makers of Special Lubricating Oils for Leading Engineering and Industrial Works of the World

Can make 100 miles an hour Yet safe in hands of 10 year boy

The Excelsior, the fastest and most powerful of motorcycles, is far the *easiest controlled*. Your hands never leave the handle bars. The clutch is controlled by the left-hand grip, the throttle by the right. The most powerful motorcycle engine ever made—obeys your slightest touch. Every Excelsior victory is made with a motor of this *regular stock design*. You need never take the dust of any machine, on two wheels or four, riding on an

Best at Portland, Ore. Races, June 9, 1913
Excelsior won six firsts and one second out of seven events. An Excelsior four-horsepower single, which had run 68,000 miles in daily service, made five miles in five minutes flat—fastest time in its class.

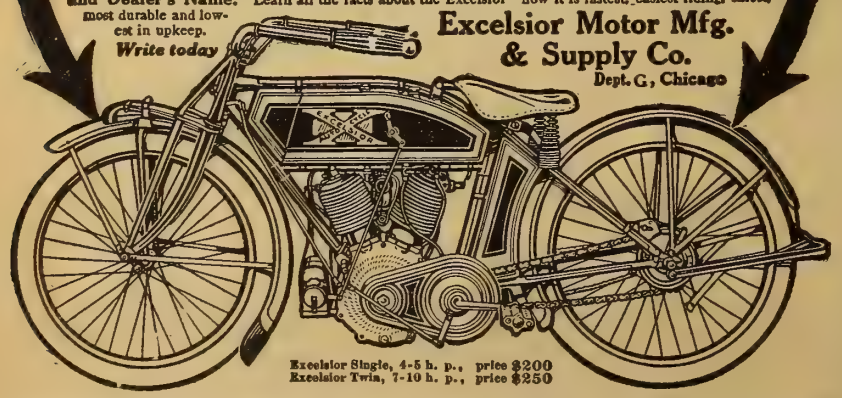
Excelsior

—the only motorcycle with complete handle bar control

The Excelsior lasts for years. The machines of pioneer days still give good service. Its remarkable strength and endurance is proved in its racing triumphs. Exclusive Excelsior features such as the shock-absorbing Kumfort Kushion seat-post and spring fork make it easiest riding. Write for **Illustrated Catalog and Dealer's Name.** Learn all the facts about the Excelsior—how it is fastest, easiest riding, safest, most durable and lowest in upkeep.

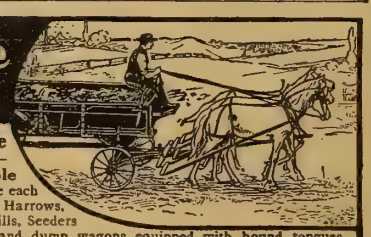
Write today

Excelsior Motor Mfg. & Supply Co.
Dept. G, Chicago



Excelsior Single, 4-5 h. p., price $200
Excelsior Twin, 7-10 h. p., price $250

Spread more Manure in a day



Use **Gamble 3-Horse Equalizers** on your manure spreaders and spread more manure in a day. Haul bigger loads—make fewer trips—save time and strength of horses. **Gamble 3-Horse Equalizers** even the pull to a fraction of a pound—give each horse exactly same share of pull. Made for Manure Spreaders, Disc Harrows, and Grain Harvesting Machines with right-hand cut, and Grain Drills, Seeders and Mowers that pull from top of the tongue—also for farm and dump wagons equipped with hound tongues.

Gamble Equalizers for 3, 4 or 5 horses, made for wagons, potato diggers, harvesters, hay loaders, plows, harrows, etc. We make devices and attachments for use with all improvements.

Send for catalog

GambleEqualizers are Guaranteed to give perfect satisfaction and do everything we say, or money refunded. Pull in direct line—no side draft. No chance of tugs rubbing horse's legs. Each horse has plenty of room and gets its share of the pull.

They are the original equalizers—the best—fully protected by patents. Made of very best material. Will last many years. No others like them. Do not accept a substitute. Cost so little you cannot afford to be without them. See them at your implement dealer's. If he does not handle them, send us his name. We will see you are supplied. Send for free illustrated catalog showing full line Gamble Equalizers.

STAR MFG. CO., Dept. 1, Carpentersville, Ill.

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW OF NEGLIGENCE.

No one is legally responsible for an injury caused by inevitable accident, even though such injury is the direct consequence of his conduct and the injured party is free from blame, but, as a general rule, a person is liable for all injuries caused by his negligence. Negligence is a word comprehensive enough to include nearly every breach of duty which is not intentional. In a legal sense, negligence is almost synonymous with carelessness. It means about the same thing. It signifies the want of care, caution, diligence or discretion of a person who may, nevertheless, have no actual intention of doing an injury. A person guilty of negligence and liable therefor may have no purpose to do a wrongful act or to omit the performance of a duty. There may be simply an absence of due care or skill. Negligence differs from fraud, because in fraud there is always an element of intent, whereas in negligence the element of intent is lacking. Where a wrongful intent exists the act ceases to be merely negligent, and becomes a fraudulent act. Fraud is a deceitful practice or wilful device resorted to, to deprive another of his right or do him some injury, but in negligence, whatever may be the grade of it, whether slight, ordinary or gross, there is no purpose to do a wrongful act or omit the performance of a duty.

A person becomes liable for damages on account of injury caused by his negligence when he omits to do something which a reasonable and prudent man would do, or does something which such a man would not do under all the circumstances of the case. The law imposes duties upon men according to the circumstances under which they are called upon to act.

As a general rule, a person who is injured by the negligence of another cannot recover damages if he by his own negligence or wrongful act contributed to the injury; that is, helped to produce it. But where the injured person is without fault or blame he may recover damages, although an act of his own contributed to the injury. For instance, suppose a railroad train is about to collide with another and a passenger seeing the danger jumps off the car and is injured. Here his own act contributed to his injury; indeed, it seems to have been the immediate cause of the injury, yet if the collision were caused by the negligence of the railroad employes, the passenger can recover damages from the railroad company.

If a person is driving a team on the highway and by reason of his carelessness the team runs away and injures persons or property he is liable for the damages, but if the runaway is not the result of carelessness he is not liable. Where a team is hitched and gets loose and runs away, it may be inferred that there was negligence in fastening the team. Where a horse or team is not properly hitched, and becomes frightened and runs away because of negligent hitching the owner is liable for the damage resulting from the runaway. Where a person knows his horse is accustomed to runaway, it is negligence for him to leave the horse unhitched in charge of a boy who is unable to manage him.

Persons who have the care, control and custody of animals are, with the owner, liable for trespasses and injuries done by the animals under their care. The owner of animals is liable for all injuries they do which are caused by the carelessness of his servants or employes while they are in charge of such animals under their employer's orders, or within the scope of their duties.

The owner of animals is under a legal obligation to restrain them from trespassing upon the lands of other persons, and every man has a right to keep trespassing animals from his premises, but he must use no more force than is necessary to drive them off, and he must not drive them farther than is necessary to keep them from his premises, else he may be liable for injury to them. If he finds animals trespassing, and inflicts wanton and unnecessary injury on them, he is liable for damages.

LAW QUESTIONS CONSIDERED.

STREETS AND ALLEYS—OUTLAWED CLAIM.

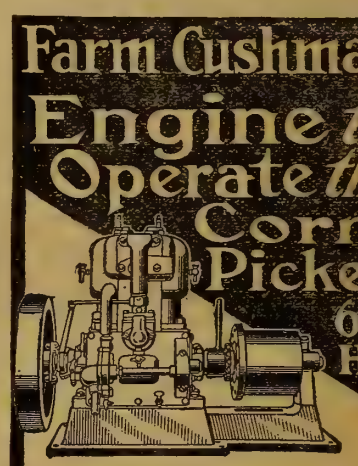
A Subscriber, Lewis, Iowa.—Forty years ago I bought twenty-five acres of land in this place. Streets and alleys were laid out through the land, but they have never been used and the land has been fenced and used as a farm ever since I bought it. The town council now proposes to sell the streets and alleys. Can it lawfully do so?

Answer.—The town council cannot lawfully sell the streets and alleys. Whatever right or claim the town may have had to them is barred by the statute of limitations.

LIFE ESTATE—GUARDIAN—REPAIRS.

A. L., Hopkinson, Iowa.—A and B were husband and wife and lived in Dubuque county, Iowa. They had six

Farm Cushman Engine to Operate the Corn Picker 6-8 HP



Three Horses are all You Need

Drive the machinery with this lightweight, high-power Farm Cushman Engine. Horses simply draw machine. You can stop the horses in heavy corn and husking rolls will not fill up. Weighs only 320 lbs.

Ideal power drive for hay presses, feed grinders, sawing, silo filling and all 4 to 8 H. P. work.

Throttle governed. Just enough gasoline is measured out for the "load"—no more. Quickly detached for any other farm power work.

Operate Your Corn Binder with a Cushman 4 H. P. The Original Binder Engine. Weight, complete, 167 lbs.

For Ensilage Cutting and all heavy work get a Cushman 20 H. P.

Ask your dealer. Write us for complete catalog.

CUSHMAN MOTOR WORKS
2029 N St., Lincoln, Neb.

Weigh Your Own Produce

and know positively that you are getting a "square deal."

Mistakes may cost you thousands of dollars. You have absolute protection with a

McDONALD PITLESS SCALE.

It is the most substantially built, the strongest, heaviest, most accurate wagon and stock scale you can buy at any price. Requires no pit. Can be erected by anybody. Channnel steel frame will last a lifetime—Protected bearings—Cannot freeze. Used for weighing U. S. Mails. Unequalled accuracy.

Write for FREE BOOKLET. Flying Dutchman Dealers sell them.

MOLINE PLOW CO.
Dept. 11 MOLINE, ILL.

children. B died and A married another woman who had several children by a former husband. A had no children by his second wife. Several years ago while living with his second wife he made a will by which he left her a sum of money and the right to live in his house and use the furniture during her lifetime and dividing the rest of his property equally among his six children and the property left to his wife during life, to be divided equally among his six children at her death. Nothing was said in the will as to who should keep the property in repair or pay taxes and insurance. (1) Whose duty is it to bear such expenses? (2) A had his son appointed guardian. About four years ago this son moved out of the state of Iowa. Can he still continue to be guardian and if not what steps must be taken? A died about seven years ago.

Answer.—(1) The widow who has a life estate in the house and furniture is required to make such repairs as will preserve the property from decay, and to pay taxes on it during her lifetime. She is not required to keep it insured, but may do so at her own expense. (2) The son could be removed as guardian because of his removal from the state, and a new guardian appointed by the district court upon application thereto.

LEASE BY ADMINISTRATOR.

Mr. H. A. Woods, Ulysses, Neb.—Last winter I rented eighty acres of land in Seward county, Nebraska, from the administrator of an estate, who signed a written lease contract for two years. He has since resigned as administrator and a new one has been appointed. One of the heirs wants to farm the eighty acres next year and he claims that the change of administrator makes my lease good for this year only. This heir is not of age and was considered by the first administrator as incapable of farming the land in a proper manner. (1) Can I hold the farm for two years according to the lease? (2) If the controversy should be taken to court will I need a lawyer?

Answer.—(1) Under the law of Nebraska an administrator is entitled as such to possession of the real estate till the estate is settled, and may rent the same and receive rental therefor, but he is required to settle finally in one year, unless the court grants him further time, therefore he would have no right to rent land of the estate for more than one year unless authorized by the court to do so. You should see the new administrator and have him get an order from the court approving the lease from the first administrator. Unless you do this you are liable to have to vacate at the end of this year. (2) If the controversy goes to court you will need a lawyer.

DEED TO TAKE EFFECT IN FUTURE.

M. L., Rochelle, Ill.—Parents in Illinois wish to give their real estate to their children and still retain the use of it during their lives. Can they do so without making a will?

Answer.—Parents can make a deed to their children, retaining a life estate in the property for themselves. They should have a competent and reliable lawyer prepare such a deed.

ADOPTION OF CHILD.

An Iowa Subscriber.—I was a grass widow with two boys, one four years old and the other two. I was unable to support them and had them adopted in two separate homes. The older boy was and is well cared for. The younger was adopted by a Mrs. P., a professed Christian, who represented her husband to be sober and all right. They had the adoption papers made out in Nebraska and signed by the county judge. I signed them in the home of Mr. and Mrs. P. The papers stated that I was in the court when they were executed, but I was not there. I soon found out that Mr. P. was in the habit of getting drunk and that his wife misrepresented the facts. Later I married Mr. D. P. and his wife moved to Kansas and Mrs. P. died and Mr. P. married again. I went to Kansas to see my boy and found him dissatisfied and he wants to come home and Mr. P. is not a proper person to have the care of him. Mrs. P. is willing for me to have the boy, but Mr. P. refuses to let him go unless I pay him $400 or $500 for supporting him to the present time. How can I proceed to get the custody of my child?

Answer.—If the child was regularly and legally adopted you cannot recover it, but your statement indicates that the adoption might not have been lawful. The law of Nebraska requires both parents to sign and acknowledge a written consent to such adoption, relinquishing their right to the child. You should have a Nebraska lawyer investigate the records. Possibly the easiest way would be to make the best compromise you can with Mr. P. He is entitled to some compensation for supporting the child up to this time.

HUSBAND AND WIFE—PROPERTY.

A Subscriber, Dupree, S. D.—I have a homestead claim in South Dakota and I have proved up on it. I want to borrow money to pay my debts and have to give a note and mortgage on the claim to raise the money. (1) Can I compel my wife to sign a note and mortgage? (2) My wife stayed only five months on my claim. She will not live with me, and wants to get a divorce. Can she claim any part of my homestead?

Answer.—(1) You cannot compel your wife to sign a note, and mortgage on your homestead, but you can give a mortgage on it without her signing it. (2) In case your wife should get a divorce, the court might allow her alimony out of your property, but if she does not get a divorce, she cannot claim anything from you except the right of support.

PASTURING PUBLIC ROAD.

A Subscriber, Wentworth, S. D.—A and B own adjoining farms and a public road runs between them. The road is fenced on both sides. A wishes to herd his cows on the road for pasture and B objects to it. Has A the right to pasture the road?

Answer.—A has no right to herd his cows on the public road. The grass and pasture growing on that part of the road which runs over B's land, belongs to B, and A has no right to it whatever. A is entitled only to the grass and herbage which grows on the part of the road taken from his land.

SELLING OR TRADING GLANDERED HORSE.

A Subscriber, —,Iowa.—A traded to B a horse which was diseased with nasal gleet in the last stages. A represented that the horse had distemper only, and would be all right in a week or two. A cleaned the horse's nose and the next morning its manger was plastered with a white mucus matter that stuck to everything it touched. B asked A to trade back, but A only laughed at him and refused. The horse had been traded twice before. The horse is in the first stages of glanders and is a deadly menace to man and beast. What is the law upon the subject and what remedy has B, if any?

Answer.—The law of Iowa provides that any person who sells, trades, or offers to sell or trade a horse having nasal gleet, glanders, or button farcy, shall be fined not less than $50, nor more than $500, or imprisonment upon conviction therefor. B can also sue A for damages and recover whatever he can prove he suffered by reason of A's false representations about the horse.

TILE DRAIN ACROSS HIGHWAY.

Mr. J. E. Harper, Vinton, Iowa.—In The Homestead of June 19th your answer as to tiling across the highway seems to me to be wrong. On page 380 of the Code of Iowa, sections 1964-1966 plainly state that the townships must pay for tiling across the public highway.

Answer.—The sections of the code to which you refer, sections 1964-1966, provide substantially as follows: When any watercourse or natural drain crosses any public road and the adjoining land owner wishes to cross said road with an underground tile drain, he shall notify the road supervisor in writing, specifying the depth of drain and size of tile to be used and give the road supervisor twenty days to construct the same and the supervisor is required to do it and pay therefor out of any money in his hands. If he fails to do so, the owner may construct the drain and receive pay for the same. As you will observe this law only applies to a case where a watercourse or natural drain crosses the road and does not apply to the case mentioned and answer given in the Homestead of June 19th. In that case no watercourse or natural drain crossed the road.

COLLECTION OF NOTES AND INTEREST.

A Subscriber, Dexter, Iowa.—In 1908 I bought some sale notes which were payable at the bank here and drew 8 per cent interest from date if not paid when due. One party did not pay his note when due, but paid the principal shortly afterwards and I still have his note. (1) Can I collect the interest with interest thereon added each year? (2) When would this note be outlawed? (3) Another note for $300 was signed by a man and his wife who lived and now live in another state. This note was dated February 1, 1908, and was due in one year, and payable at the bank here. Nothing has been paid on it. How long can I let it run before suing on it? (4) Must I sue on it in Iowa, or in the state where the makers live?

Answer.—(1) You can recover the back interest up to time note was due, with simple interest thereon from that time—not compounded. (2) Ten years after the note was due. (3) By the law of Iowa the note would be barred in ten years after it is due, but if the makers of the note have no property in Iowa and cannot be found there you would have to sue them in the state where they live, and as you have omitted to say what state that is, we do not know when it would be outlawed. This answers the fourth question.

You'd Buy The LOUDEN Make, of Course

And the price—well that is a pleasant surprise that awaits you. The cost is so moderate that Louden Carriers will soon pay for themselves, by the saving of labor, of feed, and the elements of value in the manure.

Why Not Economize in the Barn as Well?

Any barn equipment purchased today, will be an improvement over the equipment of yesterday—the old kind with deep mangers, the filthy floor, the rigid stanchion—but why not get the best at the same price.

Louden Stalls and Stanchions and Litter and Feed Carriers are as well made as many clocks. Every joint is fitted perfectly with Louden dust-proof malleable connections; there are no cracks or crevices to catch dust; and for strength, Louden Equipment will stand the wear longer than your barn.

You Should Buy Louden Stalls and Stanchions Because They

Align the cow to the gutter, keep her clean and save the bedding.

The cow can swing her neck nine inches in any direction and scare the flies off her rump with her head.

The cow can get down and up without danger of scratching her knee or brisket. Every part of the curb and stanchion is round.

The cut-out manger curb makes it possible for the cow to have her throat within ten inches of the floor when lying down. It also makes possible high manger curbs on each side. This prevents loss of food, as many cows nose a portion of their rations out.

The manger partition makes it possible for each cow to be fed the required amount each meal, and it is impossible for her neighbor to eat a portion of it. **No half-fed or over-fed cows in Louden Stalls.**

Every piece of metal equipment is galvanized or painted inside and out with the best quality aluminum paint, insuring against rust.

Be Ready for Frosty Mornings---You'll Need Feed and Litter Carriers Then

Have Louden Litter and Feed Carriers installed before cold weather, that you may cut down the exposure necessary in doing the feeding and cleaning.

There is no carrier made today that is operated as easily as is the Louden. A boy of twelve is prepared to do all the heavy work in the barn if he has a Louden Carrier. You can lift forty times as much with a Louden Carrier lifting device as you can with just your strength.

The peculiar construction of the Louden Carriers gives them strength and they will outwear any other carrier to be bought today. So well has the work of operation of the Carrier been distributed on the various parts, that there is little strain on any particular piece of the mechanism, no matter how heavy the load.

See Louden Machinery Company Exhibit at the Iowa and Other State Fairs

Valuable treatise on barn building, by Agricultural Department of The Louden Machinery Company, will be given each visitor at the exhibit.

Exhibits of The Louden Machinery Company will be made at the following state and interstate fairs:

Connecticut,	Nebraska,
Illinois,	New Jersey,
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See your dealer or fill in the coupon and mail it today. We will mail you handsome books giving facts and figures of vital importance to every man whether he owns one cow or a thousand.

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Without cost to me send me the book or books marked with X.
[ ] Dairy Barn Equipment.
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I will / will not build a new barn by ft.

I will / will not remodel my present barn this year.

I keep head of cattle and head of horses.

(Cross out the words that do not apply to your case)

Name.....

Postoffice.....

R. R.....State.....

Mr....., a neighbor is considering new barn equipment. His address is.....
Postoffice

.....R. R..... He keeps
State

.....head of cattle and.....horses.

HINTS·SUGGESTIONS·DEVICES

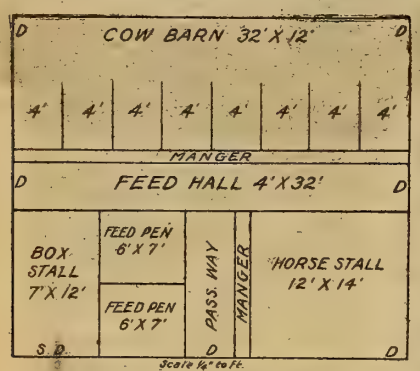
WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

FOR FEEDING SALT AND ASHES.

The accompanying engraving shows a simple, convenient and economical self-feeding device for keeping a supply of salt and ashes before hogs. It is made of twelve-inch boards and may be made of any desired height. The front board is set up from the floor or bottom board about two inches and back from the front about four inches at the bottom. A four-inch slit across the trunk at the bottom makes a box into which the materials fed gravitate. The form of construction affords protection from the weather. The box may be fastened against the side of a building or to a post set for the purpose. Salt and wood ashes make an excellent mixture and, in a measure, are said to be protection against worms. Any other materials of the same sort may be fed instead.

Cow Barn Plan.

Noticing a request for a small barn plan, I am sending a sketch of one I should build if I wanted one of that



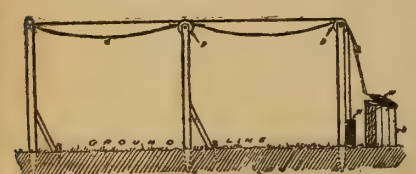
size, writes a Missouri subscriber, Mr. Andrew White. The foundation should be of concrete and should be plenty high so as to have room above. I would make the foundation at least two feet above ground, more would be better, thus saving the timbers from the manure, and use sixteen feet siding. The sketch is self-explanatory.

To Keep the Clothesline Tight.

Anything that will tend to lighten the labor of the housewife on washday ought to be given special attention, and here is a kink that will be of great assistance in helping her hang out the clothes after washing them, writes M. Coverdell, of Missouri.

Set three posts equal distances apart. Attach the clothesline to the first. On top (or near to the top) of the other two fasten common pulleys, passing the line through them. Fasten a good-sized weight to the other end of the line, arranging it so it will just be free of the ground while keeping the line good and tight.

When it is desired to hang clothes on the line, lift the weight (w) and

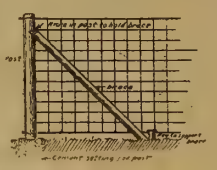


place it on the box (b), which slacks the line till it is considerably lower and thus more convenient to reach. The plan not only keeps the line tight after the clothes are hung out, but yielding of the weight when a strong wind blows the cloths, avoids breaking of the line, which so often occurs where the line is securely fastened at each end, nor is the wind as apt to tear the clothing as on a perfectly rigid line.

Unless the two posts are braced as shown in the illustration, they will loosen and pull toward the post where the weight is attached, causing frequent adjustment of the weight, finally falling completely over. If a good, smooth surface is arranged for the line to work over, on the center post, the pulley on this post may be omitted.

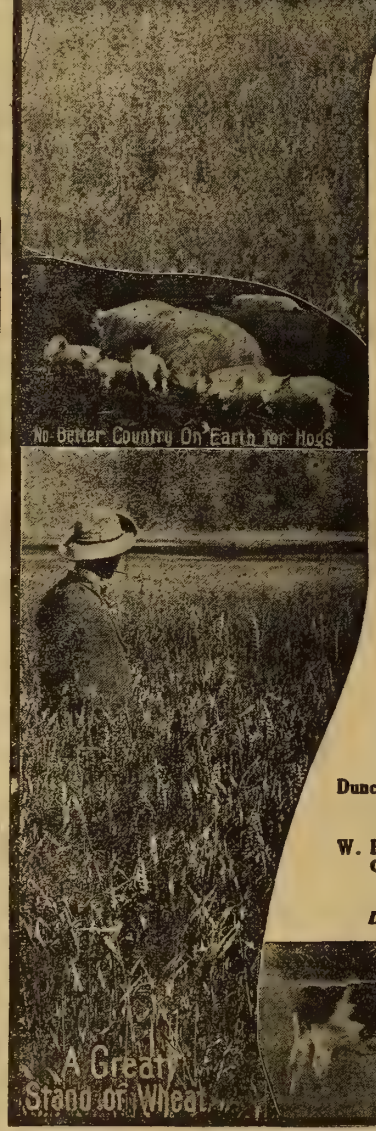
Fencing For Sheep.

The sheep corral is an important place to fence, for it should be built strong enough so if the herd should stampede they will not be able to tear it down. The corral for sheep is often made of field fencing at the bottom, and several strands of tightly stretched barb wires at the top. Smooth posts such as cedar or split walnut are the best for high corral. Set them firmly and brace the corner posts very securely. Illustration shows how to brace. To make a good fastening at the corners of a sheep corral, or any fence, bring a length of wire back from the front of the post so it will extend clear around it. Then lap these wires at the other side. The wires may also be stapled. A gate which swings from a tall guide pole is the kind for a sheep corral. Fix something to fasten the gate to when it is open. Otherwise the gate is apt to swing to at the wrong time when the wind springs up suddenly. Fasten a gate of this type with a chain and hasp.



When hay is put into the bale at the rate of ten tons a day, one gets over the ground lively, as light as the yield is this year, if the bale crew is kept busy. Beginning Monday morning among the mowers and quitting Friday noon, we sheared the grass off eighty acres of land, and this Saturday noon will see the last bale in the barn.

Harvesting a Magnificent Crop of Western Canada Oats—Yield 115 Bushels



—as usual

Western Canada's Crops on Top!

So great big PROFITS are practically certain for Western Canada farmers this year. Crops in the best agricultural states are far from satisfactory. But in the Canadian West CROPS NEVER WERE BETTER THAN NOW. And don't forget what an enormous crop we had in Canada last year.

Wealth's waiting for you here in the richest soil on earth. Come and take up FREE or LOW PRICE LAND, break and seed it and harvest the finest and biggest yield grain crop you ever raised. Money here in stock—horses that equal Kentucky's best, dairy and beef cattle that are champions of the earth, hogs that bring enormous profits, poultry, too, all these make wealth in Western Canada. A farm home and independence are waiting for you here. Raise any and everything you like—grain, stock, dairy products, vegetables, small fruits, poultry—whatever makes you money where you are now will make you *more* money if raised in Western Canada. Learn all about this.

GET OUR FINE ILLUSTRATED BOOKS Given By Officials FREE

Let us show you how YOU can trade each wornout acre you now own for *ten* rich virgin acres that will yield you enormous crops. Learn all about our good markets, fine towns, schools, churches, homes, stores, banks and railways—best of all learn how in Western Canada YOU can make five to ten times the return in money farming that you are now making. Come to Western Canada. GAIN A FORTUNE.

FREE Homesteads and Low Price R. R. Lands

The Canadian Government is making free grants of 160-acre homesteads to every adult male applicant. These lands will produce without fertilizers 25 to 45 bushels of hard wheat to the acre—highest quality and biggest yielding wheat on earth! Or you can buy land near railroad, $11 to $30 an acre for finest grazing, mixed farming and grain lands—20 years in which to pay and *your farm will pay for itself.*

WRITE FOR ILLUSTRATED BOOKLETS and any information you want FREE. Let any of the officials whose names are printed below send you booklets containing maps, crop statistics, pictures, etc.—ALL FREE AND WITHOUT OBLIGATION. Send a few lines now, right away.

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Dairy Cattle Fed on Western Canada Alfalfa Are Making World's Records for Production

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Get My Special Engine and Pump-Jack Combination Offer—NOW! Yes, sir. Do it today. Don't wait a minute. Just sit right down and drop me a postal and say, "Galloway, send me your special pumping engine offer." I am out after the pumping engine business and I am going to get it because I am making the best pumping engine outfit ever made and selling it at a price never before equalled. You can't imagine the number of uses you can put one of these little engines to until you see my **Special Pumping Engine** catalog. It's something new and different and I have a copy waiting for you, free. Just write me for it without fail today. Don't wait until your windmill blows down or the calm hot days get here when the windmill won't run and you have to toil and sweat pumping water by hand for a lot of live stock. No, sir; don't do it. Be prepared. Get my catalog and special offer. That's the first step. Then—

$24.75 And Up

I'll Save You $25 to $300

on the first cost alone. I'll save you $25 to $50 on the best pumping outfit made. On my larger engines I can save you as high as $300 and more. Remember, we make engines in sizes from 1 3-4 h. p. up to 15 h. p. My 1 3-4 h.p., air cooled, little "Boss of the Farm" engine sells for only $24.75—an unheard of price. The same style of engine at your dealers costs from $45 to $65. Now, that's just a sample of what buying direct from Galloway means in money saved. Get my special pumping engine offer right away. Write today.

Write Today for My Catalog and Special 1913 Business Proposition

Here's a final clincher. My 1913 Special Business Proposition. I've got a new plan which will help you get your engine partly or entirely without cost to you in the end. No canvassing, no soliciting, no agent's proposition, for we don't sell through agents—but just a straight business offer. Will give full details when you write me. Send for special pumping catalog—offer—and my new bed rock engine prices. Don't lay this paper down and forget it. Write me now. Address me as below:

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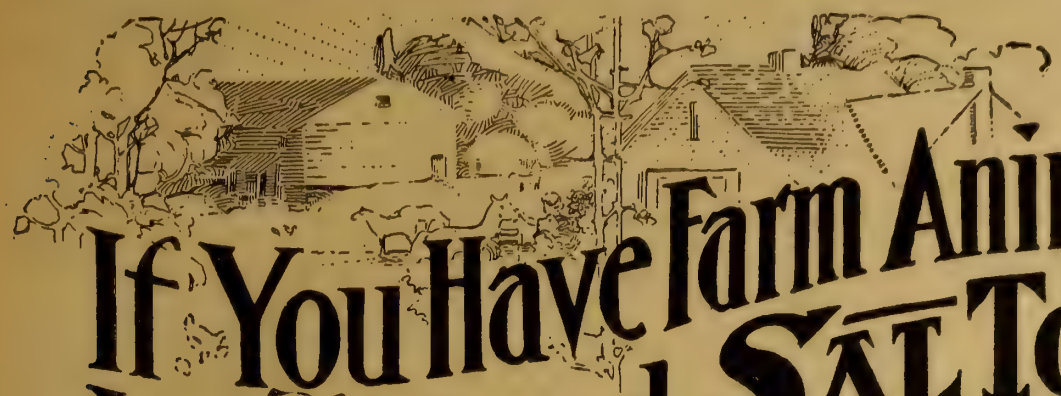
FREE Service Department. When it comes to help or information for proper installing to get the most profit out of your engine, just call on my Service Department composed of engine experts. Think of it. I not only save you money right at the start but put at your disposal a corps of experts who will tell you how to install your engine, size pulleys to use with different machines, anything, in fact, you may want to know, and this service don't cost you one cent. It's just another advantage you get when you buy of Galloway.



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More Than $25,000,000.00 Loss Annually from Worms

The Department of Agriculture of the United States Government states that the loss to our farmers and live stock growers, from intestinal worms and parasites is enormous—that twenty-five million dollars a year is a very low estimate of the amount.

What Is Your Share? How big a chunk of that twenty-five millions comes out of **your** pocket? You don't know, do you? Neither do we. But if you have any farm animals at all—hogs, cattle, sheep or horses—it's nine chances to one that **you are paying a** part of it, because **nine** farm animals out of every **ten** are infested with worms. You may not see them; you may not believe they are there. But they are there just the same, clinging to the stomach and intestines, sucking in the food and growing fat, while the poor animal half starves, always hungry, but never full, growing little, eating its head off, costing you more than you will get out of it if you sell it, and perhaps getting sick and dying on your hands. You will never lose another dollar from worms after you begin using SALTONE.

SAL TONE TRADE MARK

Is a Wormicide and Conditioner

that is **guaranteed** to remove all stomach and intestinal worms. It drives them out, and as long as your animals have free access to SalTone, it keeps them out. Your animals take SalTone just as they would salt and it is no trouble for you to look after. SalTone is an old and proven remedy, used for many years by Mr. John E. Robbins, the president of this company upon his stock farm in Decatur county, Indiana. Mr. Robbins, whose portrait is shown on this page is well know throughout the country as a large and successful breeder of fine horses, cows, hogs and sheep. Much of the success of Mr. Robbins in raising prize-winning stock, and profit-paying stock, is doubtless due to his constant use of SalTone on his stock farm. SalTone is not an expense but an investment. One penny's worth will do a hog or sheep twelve days, or a horse or steer four days.

Letters Like These From Farmers Who Know, Come to Us Every Day

"I am sending for my third 100 lbs. of SalTone since August. I have a car of April farrows ready to ship, weighing about 240 lbs. My hogs never wintered better. I have fed SalTone long enough to know it is well worth the money, and I will recommend it to my neighbors." Earl Royler, Atlantic, Iowa.

"Enclosed find $5.00 for the 100 lbs. SalTone. I got good results and will buy in larger quantities this spring."
Hermann Broders, Stockton, Iowa.

"I want to say it is all you claim for it and I have not had a sick animal since I commenced to use SalTone. It sure removes the worms and keeps stock in healthy condition. I recommend it to all."
Oscar Robards, Robards, Ky.

"I am more than satisfied with SalTone. I consider it the best stock tonic on earth. Every stockman should have a supply."
Fred N. Greiner, Branchville, Indiana.

"SalTone is surely great. I saved a bunch of 30 hogs, that certainly would have caused me a loss without it. I would not do without SalTone as long as I had a hog on my farm."
Louis Kautz, Higginsport, O.

"Enclosed find check for SalTone. My hogs did better this winter than they have ever done before. E. E. Douglas, Converse, Ind.

"The best stock tonic I have ever used, and I will never be without it again."
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Iowa State Fair

See the SalTone exhibit and the show herds of Hampshire hogs from the SalTone Stock Farm. Come around and let's get acquainted.

Try SalTone 60 Days at Our Risk

Send the Coupon—No Money We want to send you on approval 100 pounds of SalTone (or more) and give you 60 days to test it out. Give it as directed and at the end of that time tell us your experience. If it does not do as we claim, it will cost you nothing but the nominal freight charge. If it does, it will make you ten, perhaps a hundred times its cost. Don't take chances but **try** SalTone, because you risk nothing. You have everything to gain and nothing to lose. We leave it to you to say whether it does all we claim, and there will be no kick from us if it fails. Sign and mail the coupon **today.**

The John E. Robbins Co., Greensburg, Ind.

Sign—tear off—and mail this Coupon Today

The John E. Robbins Company, Greensburg, Indiana
Ship me your SPECIAL 100-LB. 60-DAY TRIAL ORDER OF SAL TONE. I will tell you in 60 days whether it does as you say, and if it does will pay for it. If it does not I owe you nothing.

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P. O. .....
Shipping Sta. .....
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R. F. D. .....
Title .....

Hogs..... Sheep..... Cattle..... Horses....

SalTone is compounded under the direct supervision of John E. Robbins, whose portrait is given above. Mr. Robbins has been for thirty years a well known and successful breeder of live stock. See his herd of Hampshire Hogs at the Iowa State Fair. These hogs practically cleaned up everything in sight at the Chicago International last year.

SalTone Prices: 40 lbs., $2.25; 100 lbs., $5.00; 200 lbs.; $9.00; 300 lbs., $13.00. No mail orders filled for less than 40 lbs. SalTone always sold in "trade-mark" packages—never in bulk.

Ask your dealer for SalTone. If he cannot supply you, we will ship direct.

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Don't Build With Low Grade Lumber

The true test of lumber is in the durability of your building. But you don't want to find that out **after** you've paid your lumber bill. Our lumber is cut in the right way, at the right time; is thoroughly seasoned; carefully selected—graded higher than lumber sold in the local Line yards. **It's the "quality-quantity" kind.**

There's nobody between you and the mill to manipulate the grading and to collect extra tolls for which you get nothing.

You can build easier and quicker with our high grade lumber than with poor stuff, because it's easier to work up good stock than poor stock. With our immense supply we give exactly what you want and need for your house, in quality and dimensions—no "seconds" or "substitutions." And remember—**the price is right.**

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on arrival and guaranteed to be exactly what you ordered. If you're not satisfied, we'll refund all your money promptly. We want your patronage, of course, but we want your good will and confidence much more. That's the way we've built up our big business and held thousands of customers for nearly 30 years.

You get quick service. Dubuque is a better distributing point than Chicago, St. Louis, Minneapolis or Kansas City, and freight rates are so low that we can **save you money even on a small order.**

If you're going to build a house or barn and need as much as a carload, come and select it yourself. **We'll refund your railroad fare both ways.** Our big yards are piled full with well-seasoned, bright, fresh, smooth stock—the most complete stock in the middle west.

SEE OUR SILOS—We are selling the best Guaranteed Silo on the market, and really save you a considerable sum of money. Our silo has the Latest Important Improvements that you ought to know about.

Write us for particulars and state what size Silo you expect to use.

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These prices and guarantee periods are convincing:

1 ply, 35 lbs. per square, only.....**$1.15 per square** Guaranteed for 5 years

2 ply, 45 lbs. per square, only.....**$1.40 per square** Guaranteed for 10 years

3 ply, 55 lbs. per square, only.....**$1.70 per square** Guaranteed for 15 years

We have a Complete Stock of Mill Work

Anything you may want in the way of Sash, Doors, Stair or Cabinet Work, and the same High Quality that characterizes our lumber will be found in our mill work, and Quick Service as well as Right Prices are always assured you.

Give us a memorandum of what you want and we will gladly quote you prices; or send your building plans for our estimate.

Peter J. Seippel Lumber Co., 204 So. Locust, Dubuque, Ia.

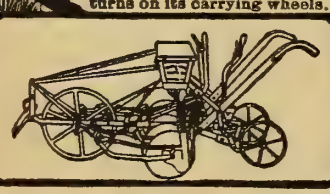
ANGLE OF DISCS NEVER CHANGES

No drill has quite such convenient advantages as our **Peoria 5-Disc Drill.** Here's the most prominent one. You can change the width between rows by moving an easy-to-reach lever and yet not alter a bit the angle of the discs. You know as well as we that this helps to insure even depth and uniform sowing. Another point; the

PEORIA 5-DISC DRILL

turns on its carrying wheels. It saves your strength; no lifting, no tugging. Whole machine turns in its own length—5 feet. That's another convenience. Depth of furrow is easily regulated. Sows all kinds of grains, large or small as well as peas, beans, corn, etc., without clogging or crushing seed. Can be fitted with grass-seed attachment. Write today, Mr. Farmer. Let's get acquainted. We'll send our free catalog and see that you get one of our drills without trouble to yourself if your dealer doesn't handle our line.

NO MATTER HOW WIDE OR NARROW THE ROWS



PEORIA DRILL & SEEDER CO. 2435 N. PERRY ST. PEORIA, ILL.

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

SAVING GARDEN SEEDS.

To the Editor of The Homestead:

The saving of money effected by raising our own garden seeds may seem small, yet most farmer-gardeners pay out each year a good sum of money for garden seeds—money that could be saved with very little trouble. For a large family garden the annual seed-bill is not inconsiderable, and a saving of several dollars can generally be effected each year by saving a portion at least of our own seeds. Then, there are several other points to be considered in the connection of saving our own seeds. First, we know how old the seeds are when planted, which it is impossible to be sure of when we buy; it so often happens that the seeds we buy will not grow. Parsnips and salsify seeds, for example, as purchased, are very uncertain. If more than a year old they will not grow, but by selecting two or three perfect roots of each vegetable and growing seed from them, the product will be first-class and its age will be known. The second point of advantage in saving our own seeds is this: If we have a good variety of any vegetable it is possible to keep the seed of it pure, and even by careful selection to improve it.

The trouble of saving seeds is very little, particularly of the varieties that seed the same year planted, like beans, peas, tomatoes, cucumbers, etc. For the root plants, as turnips, parsnips, salisfy, etc., it is necessary to winter over the plants and plant them out the following spring in good, rich dirt, and seeds as good, and often better, than can be purchased will be produced. Select as nearly perfect specimens as possible.

Now is the time to begin saving seeds from this year's crops. The seeds should be harvested as soon as they are sufficiently matured to insure their keeping through the winter. All seeds should be cleaned and then placed where they will dry readily and thoroughly, it is not necessary, however, to clean garden seeds so thoroughly as the seed purchased if it is to be sown by hand. Sown with the chaff it is just as sure to grow, but if there is much chaff due allowance must be made for the additional bulk, as it must be sown more thickly. As soon as the seeds are perfectly dry they should be put into paper bags or fruit jars, labeled properly and put away in a dry place where dampness will not reach them. If put away in paper bags they must also be protected from rats and mice. Beans and peas should be treated to keep the bugs out. The simplest effective method of doing this is to pour boiling water over the seed, which first has been placed in a thin layer over a screen that will allow the water to drain off at once, so that the germ of the seed will not be injured.

Cucumber, pumpkin, squash, watermelon and tomato seeds require more care than most other seeds as they are encased in a slimy covering and, consequently, are hard to get clean. They will dry all right spread on paper or a screen, and when dry most of the dried slime can be rubbed off between the hands. But if it is desired to clean them fully, wait until the specimens are very ripe, then scrape the seeds and pulp into a jar half full of water. Keep this in a warm place for a few days and the pulp will ferment and rise to the top, while the seeds will sink to the bottom of the jar. The pulp and water can then be poured off, and when the seeds have been washed they are clean and ready to be dried. Such seeds require careful labeling because they are so much alike in appearance.

Pea, bean and sweet corn seed are costly even in bulk. These can be grown at a much less cost than purchased seed. Beet, radish, turnip and lettuce seed are easily grown in the garden also. The beets and turnips are selected in the fall and kept over winter, being planted out early in the spring. The point to bear in mind in saving radish seed is to save only that produced by good-sized radishes. Radishes going all to tops and no roots come from sowing seed saved from plants that have been grown too thick.

Lettuce seed is not difficult to grow by the gardner. When the gardner gets hold of a variety that just suits him, it will pay him to let a few plants go to seed, and be sure to gather the seed when ripe. He can thus make sure of having just the lettuce he

Seed Corn Dryer That Every Farmer Can Afford

Guaranteed the simplest, most practical, most satisfactory dryer on the market. Thousands now in use. Sold at a price that every farmer can afford.

$1.50 Each, Shipped Prepaid

Nothing like it on the market. Inexpensive, $1.50 each, capacity 200 ears; 3 for $4.25. Sold on 30 days' trial. Money back if not satisfactory.

Free Introductory Offer

One farmer in each community can get one of these dryers Free. Write for full particulars of introductory offer on this patented dryer, the kind that works right, looks right and lasts forever.

Farmers Specialty Co., 51 Linn St., Iowa City, Iowa

Sales Agents Wanted. The Sime Dryer Sells Itself on Sight.

Hydraulic Dump

The "Camp" is positively the only ***Hydraulic Grain Dump*** on the market. Our free catalog describing fully this product is yours for the asking. Just **make a comparison and study the principle** and you will see that the "Camp" meets with every requirement.

Write Today

CAMP BROS & CO DEPT. C WASHINGTON ILLINOIS

Ertel's Cyclone—3-Stroke Self-Feed Hay Press Bales with least labor

WILL BALE 20 TONS OR MORE A DAY AT COST OF ONLY 40c A TON.

Make big money baling for your neighbors after yours is done.

The Cyclone is powerful, durable, repair-proof—made almost entirely of finest steel. Unbreakable steel baling chamber, adjustable tension, makes smooth, clean, tight bales, 75 to 125 lbs. as desired. Three strokes each circle. Self-feed. Works at stack, barn or windrow.

Here's the biggest money maker you can buy. Low price. Free trial and absolute guarantee on every press. Write today—full information free.

Geo. Ertel Co., 384 Ky. St., Quincy, Ill.

Save $50 to $300

Yes sir, you can positively save that much *or more* by buying your gasoline engines *direct from the manufacturer.* I am out to triple my gasoline engine business and I'm going to do it because I am making three engines where I formerly made one and I'm making prices that are selling them like wild-fire. Before I started manufacturing gasoline engines and selling them direct to you farmers, dealers used to get $225 to $300 for 5 H. P. Engines that were far inferior in quality to the famous 5 H. P. Model which I put on the market at the unheard of price of only $119.50.

Now I Am Making a Still Bigger Cut Just notice my *new* prices, only $99.50 for my famous 5 H. P. engine and other sizes in proportion. Here's your chance to get an engine this year at a price never before equalled—an offer made possible by my increased production. Act *quick*—these prices are *good for 60 days only.* Write me today for my big engine catalog and special 1913 offer that will help you get your engine partly or entirely without cost to you in the end. Don't wait. Don't put it off. Write to Galloway today.

2¼ H.P $39.50
5 H.P $99.50
7½ H.P $179.50
10 H.P $253.50
15 H.P $334.50

GALLOWAY GASOLINE ENGINES

Sold Direct From Factory

30 DAY FREE TRIAL

GET MY FREE BOOK

I can ship you any size from 1¾ H. P. to 15 H. P. either stationary or mounted on hand or horse portable trucks or equipped with wood-sawing outfit. Over 30,000 in actual use today in all sections of the country and 31 foreign countries, and all sold on a positive 30 day Free Trial Privilege backed by a $25,000 legal bond and a 5 year warranty on materials.

Free Service Department: My corps of engine experts will tell you how to install and use your engine and equipment to the best possible advantage. This service is free to users of Galloway engines.

My Big Engine Catalog tells all about the complete Galloway line—my big Pumping Engine Catalog shows my unequalled line of pumping engines and several special outfits. Write today for catalog desired and new, special 1913 offer. Do it before you lay this paper down. Just address:

Wm. Galloway, Pres., WM. GALLOWAY CO., 15 Galloway Sta., Waterloo, Iowa

We can ship same day order is received from either Waterloo, Chicago, Kansas City, Council Bluffs or Minneapolis warehouse 615

The Cresco---All Metal and Portable Corn Crib

Will not burn, rust or decay. Keeps corn safe from mold, rats and mice. Ideal for saving seed corn.

DOUBLE CRIB WITH DRIVEWAY.

Made in all sizes and widths, also in single Cribs. You get ventilation in this Crib superior to any other. We claim that it's the best in the long run, much the least expensive and the most satisfactory Crib you can put up. Don't put up a Crib until you investigate the Cresco. Don't take our word for it, but look into this and decide for your yourself.

See Our Exhibit at the State Fair

Ask for our circular matter and prices. We know you will never build another wood Crib when you look this over. We invite you to come to see our Crib personally if you can. It will be impossible to fill orders later on. A great many orders had to be turned away last fall, because it was impossible for us to deliver the goods.

Huber Petersen Mfg. Co., Cresco, Ia.

O K CHAMPION DIGGERS

4 Different Sizes and Types

Our machines are designed and built to meet all conditions under which they may be worked. They embody every point of construction which insures freedom from breakdowns, costly waits and expensive repair bills. Saves time in harvesting and saves money on your crop of potatoes.

Make inquiry. Write today for our **FREE Large Illustrated Catalogue** giving particulars of the O. K. Champion Line.

CHAMPION POTATO MACHINERY COMPANY

115 *Chicago Avenue,* Hammond, Indiana

"Canadian Chief" WINTER WHEAT

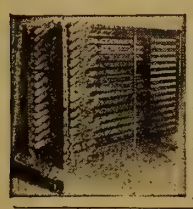
Hardiest Variety in Existence, bred to endure 40 below zero weather and grown on our own farms in its original purity.

Produces 40-50 bu. per acre.

Write for our Special Illustrated Folder and Price List, giving facts regarding the exceptional varieties of ***Winter Wheat, Winter Rye,*** also ***Hardy Clovers and Grasses*** in which we specialize.

Samples Free to progressive farmers.

Farmer Seed & Nursery Co.,
306 3rd Avenue FARIBAULT, MINN.



WINTON SEED CORN RACK

Only rack made suitable to use in connection with tester. **See it at Iowa State Fair.**

Reliable Agents Wanted

Crenshaw Mfg. Co.
ADEL - - - IOWA

Premium Seed Wheat

FIRST at Iowa State Fair last year from a field that made 54 bu. per acre and with a 44 bu. yield this year, this strain of Turkey Red stands alone. Recleaned seed in bags f. o. b. Ames at $1.25 per bu. while it lasts. Send check or draft with order. Reference any bank in Ames.

L. J. BAIRD - - AMES, IOWA.

WINTER SEED WHEAT

KHARKOV YIELDS 50 TO 70 BU. PER ACRE

Yield guaranteed. Write for catalog and circular, describing the most wonderful variety ever introduced in the U. S. BERRY'S IMPROVED KHARKOV. Just imported direct from Russia. Has no equal. Largest yielder known and withstands the severest winters. Have improved Turkey Red, other varieties and Mammoth White Rye. Large stock Alfalfa, Timothy and all Grass Seed. Write for circular, free samples, special low prices.

A. A. Berry Seed Co., Box 103 Clarinda, Iowa

ALFALFA

How to grow Alfalfa, how to feed it, how to harvest and care for it. Full information for corn belt farmers who wish to grow this most profitable hay crop will be sent free on application. Also a sample of our extra choice high grade seed.

IOWA SEED CO. Dept. D1, **Des Moines, Iowa**

NO. 42 TURKEY RED SEED WHEAT

ABSOLUTELY the heaviest yielding strain of Turkey Red wheat known. Fine berries of good size and color. This variety our specialty. Write for illustrated booklet.

FRANK J. RIST HUMBOLDT, NEB.

TURKEY RED WINTER WHEAT SEED

QUEREST cropper, highest yielder, none better for quality. Try a patch this fall from our seed. We hold the highest record in show ring for Iowa. Pure, recleaned, plump seed, best grain sacks free at $1.10 per bushel. Ask for sample.

JNO. JUSTICE - - - ANKENY, IOWA

wants another season. It is the same with the various vegetables.

Many farmers save seed from the above mentioned plants, but they are not careful about selection, using all the plants that are wanted and saving for seed what happen to be left at harvest time. As a consequence, in a short time the variety is "run out," the term used when seeds propagate weak, inferior plants. A little care in saving the best early specimens will improve the varieties instead of injuring them. It is interesting to try to improve upon the original stock when one has the time to devote to this work. In order to improve the varieties, or even to keep them pure, only one can be raised in the same plat. Nearly all plants will cross or mix if two or more varieties are planted close together; varieties to be kept pure should be far apart.

Wm. F. Purdue.

EXAMINE YOUR OATS FOR SMUT.

To the Editor of The Homestead:

According to a large number of counts which were made in the oat fields last year, 7.3 per cent of the oats were infected with smut. This loss amounted to hundreds of thousands of dollars, but in spite of the enormous loss last year, we have failed to take heed of the lesson and have a much larger per cent of smut in our oat fields this year than ever before. It would be well for us to take note of our oat fields at this time of the year.

There are a few farmers in every locality who have treated their oats. But, on the whole, the number who have treated is very small. Some have objected because they did not have time, others were skeptical, and some considered that their oats did not need treating—in fact, it is the common opinion among a good many men since their oats never have been infected that oat smut will never be present on their farms. Some of these men this year have learned the lesson of their folly. The result was that there was more smut this year than ever before. A large number of observations in the oat fields this year has shown an average of over 13 per cent of smut in the fields. This may be high as an average for the state, but at any rate it would indicate the extremely large amount of smut which is present. In a single county of the state this loss would amount to a large per cent of the tax levy of the county, and it could easily be avoided. The expense of treating oats for smut is less than one cent per bushel for the seed sown. When properly done the treatment is effective. In fact, the average of last year showed that the loss on treated fields was less than 1.9 per cent, and there is no doubt but this could be reduced if the treatment had been properly done. A large number of counts in fields this year indicate similar results. In fact, the figures on counts made this year are lower than averages for the state last year.

Unless the oats sown next spring are treated, the per cent of smut will unquestionably increase. Some have tried to avoid the smut by buying seed of their neighbors. This is never satisfactory nor desirable. Some have discovered from their own experience this spring that such oats are more smutty oftentimes than those raised at home. The oats which were purchased may have been perfectly free from smut a year before, but it must be remembered that smut is carried in wagon boxes, sacks, in threshing machines and is also carried by the winds. For this reason, oats which are perfectly free from this fungus oftentimes become badly infected in a single year.

Oat smut is a kind of fungous plant. The dust of the smut contains the seed spores which lodge on the oat kernel and are planted with it in the spring. When the oats sprout, the spores sprout, grow in the oat kernel and upward through the walls of the oat plant. The smut therefore is present during the growing season, but does not make its appearance until the oats begin to head. We then have the seed of the smut plant instead of the seed of the oat plant. Nor can we blame the season nor the oats for this. The farmer whose oats are infected should blame himself. Let him be content to figure up his loss and then from the lesson he has learned avoid it another season.

A. A. Bunger.

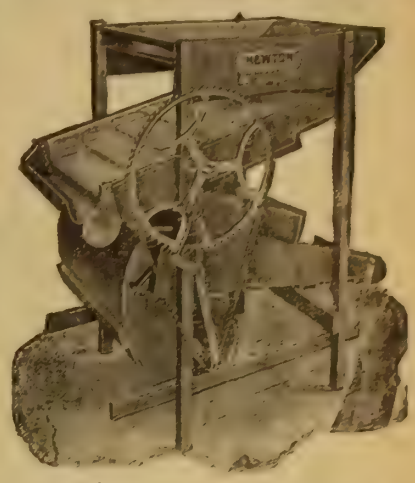
A few of the advance agents of civilization are putting fly traps in their barns for the benefit of their horses and cows and incidentally for the benefit of their pocket books. This with the cleaning out of the breeding places of the fly may, in time, lessen the pest.

Dynamite is more and more playing an important part in farm affairs. Orchardists in those localities where the soil is stiff "blow up" the tree holes where formerly these were dug. In hard pan regions the "greased crust" may be destroyed for all time by putting off a small stick of dynamite at points fifteen feet apart each way.

Group of Irvinedale Belgian stallions owned by Chas. Irvine, Ankeny, Iowa. See field note on page 26.

WHEN AT THE IOWA STATE FAIR

Don't fail to visit the One Minute Mfg. Co.'s exhibit. See the Big **Newton Grain Grader and Cleaner** in operation. Watch it, and by its own simple way of telling the story learn how all kinds of grain and seeds may be accurately and cleanly separated and graded. This machine is a good investment. It will pay for itself in one season; and you will be able to raise larger and better crops than you ever dreamed of raising.



It Has Made Good

because it is adapted to practically all kinds of grain and seed, and it does the work right because it is equipped with the necessary screens to perform the work. Will separate oats from wheat, weeds from clover and grass seed. Give it a trial. We guarantee it to give satisfaction.

Our Newton Low Down Manure Spreader

will bear the closest inspection. It contains many new features desired in a spreader. Learn its story too—it will certainly interest you and convince you that by using the best tools you gain the best results. Write for particulars.

One Minute Manufacturing Company

NEWTON - - - - - - - - IOWA

NEW CROP SEEDS

ALFALFA
TIMOTHY
BLUE GRASS

Write today fos samples and special prices. "Missouri Brand" seeds the best obtainable.

Missouri Seed Co., Box 9, Kansas City, Mo.

THE FLOUR CITY

Built in Three Sizes---20, 30 and 40 H. P.

A good operator and a poor tractor is an unsatisfactory combination. A good tractor and a poor operator does not improve the situation, but a **"FLOUR CITY"** tractor and a good operator is a paying investment.

The **"FLOUR CITY"** has many distinctive features. The bevel gear transmission is worthy of special mention. The gears are made of forty-point carbon steel and are practically indestructible. The complete transmission, together with the drive pinion and belt pulley are mounted on one shaft and are controlled by one lever.

The over-head valve is also a feature of the **"FLOUR CITY."** It is conducive to perfect ignition, combustion and economy, opening direct into a cylinder free from valve pockets; the full energy of the charge is utilized, and the constant necessity of re-grinding the valve is eliminated. **SEE OUR EXHIBITS AT THE IOWA STATE FAIR.**

KINNARD-HAINES COMPANY,
857 44th Ave. No., Minneapolis, Minn.

Get More $ FOR YOUR WHEAT

Why take a chance on questionable seed? Plant the best. Plant the seed that is rigidly tested for stooling and germinating properties. Plant seed that is cleaned and re-cleaned—no seconds, no thirds, no dirt, no shrivelled stuff. Plant seed that yields big in spite of dry-weather conditions that ruin other varieties.

PLANT "TURKEY HARD"

The famous Kansas Hard Winter Wheat—Now grown all over winter wheat belt—Originally imported direct from Russia—Has highest percentage of gluten—Millers pay more for it because it makes better flour and more bread—Nets you 3 to 5 cents per bushel more—Withstands winter killing better—Get circular that tells how to make more money from wheat—Free with samples and low prices. Write today.

McCULLOUGH
"The Seed Wheat Man"
214 Sedgwick Bldg. Wichita, Kansas

AGAIN AT 1913
IOWA STATE FAIR

Again to show in operation

KALAMAZOO CENTER SHEAR CUT SILO FILLER
and
SILO FIXTURES

Again to show and sell 4 articles to 1 of others

Look { for the **KALAMAZOO** { from Mich.

Examine sickle-edge knives for **ALFALFA** machine—with eight knives, cutting one-eighth inch.

Healthy Stock

is assured to the wise farmer and stock raiser who guards against all parasitical and skin diseases by occasional dippings and sprayings. You should always use Dr. Hess Dip and Disinfectant for two important reasons—its effectiveness and its uniform strength. Its cheapness permits of its free general use everywhere.

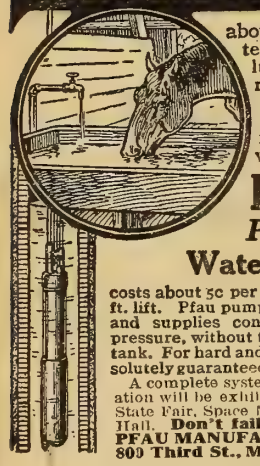
DR. HESS DIP and Disinfectant

is a guaranteed preventive. It contains elements harmless to animal life, but deadly to parasitic and germ life. Little trouble to use it. For sheep, or when contagious diseases are suspected, a dipping tank is best. One gallon of dip makes 100 gallons of solution.

Write for Dip Booklet.

DR. HESS & CLARK, Ashland, Ohio.

Pure Water CHEAPENS FEEDING



about 15% in winter, and is absolutely necessary to health in stock. Pure water "direct from the well" with the

PFAU *Pneumatic* Water System

costs about 5c per 1000 gallons—50 ft. lift. Pfau pump goes *in the well* and supplies constant, unfailing pressure, without the filthy storage tank. For hard and soft water. Absolutely guaranteed.

A complete system in actual operation will be exhibited at the Iowa State Fair, Space No. 74, Machinery Hall. **Don't fail to see it.**

PFAU MANUFACTURING CO. 809 Third St., Milwaukee, Wis.

THE SCHULTZ HOG OILER

The world's standard rubbing post. Buy the original, you need one in your hog yard to keep your hogs free from lice and mange, uses crude oil. Guaranteed by a $10,000 Corporation. Send for big free Oiler Book.

POWER CREEK MFG CO. (Inc)

Mfgrs. of Hog Yard Necessities,

COUNCIL BLUFFS - - IOWA

KENDALL'S SPAVIN CURE

—has saved thousands of dollars and thousands of horses. The old reliable cure for Spavin, Ringbone, Splint or lameness. For sale at all druggists. Price $1 per bottle, 6 for $5. "Treatise on the Horse" free at druggists, or write to Dr. B. J. KENDALL COMPANY, Enosburg Falls, Vt., U. S. A. 5

This Remedy Is Guaranteed To Cure Bone Spavin

Bo-Spav-O is not a cure-all, but a **specific remedy for bone spavin.** We do not claim that it will cure ringbone, splint, cracked hoof and a thousand and one other things as many so-called spavin cures are recommended for. Bo-Spav-O **does the work.** Tested in hundreds of cases—not a single failure.

This great remedy can now be had by every farmer and horse owner at reasonable cost. The remedy is simple and easy to apply. Does not blister nor leave scar or blemish of any kind. Removes and completely cures a bone spavin in three weeks.

ABSOLUTELY GUARANTEED

and your money promptly refunded if it fails to do what we claim. Write today for interesting circular and complete details.

WELCH BROS. CO.

100 Milwaukee St., OCONOMOWOC, WIS.

BO-SPAV-O

TRADE MARK

GUARANTEED TO POSITIVELY REMOVE AND CURE A BONE SPAVIN WILL NOT BLISTER

Welch Bros

OCONOMOWOC, WIS.

VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

APOPLEXY.

Two gilts, weighing about eighty pounds each, in nice thirtfy condition, not fat, fed on separator milk and about an ear of corn at a feed twice a day, supplemented with ship stuff, suddenly became paralyzed. One died in two days and just before death seemed to suffer great pain. Both appeared very sensitive while ailing. The other one recovered to the point of being able to walk around and then died very suddenly the third day. A third one, a litter mate to the two above, was afflicted the same way, but has recovered. Four barrows, all litter mates to the gilts, in the same pen and fed the same showed no symptoms. Can you make a diagnosis?

We would suspect apoplexy and paralysis due to indigestion and plethoric condition induced by overfeeding and lack of exercise. At once turn the remaining hogs out on pasture and continue to give them free range. Feed light laxative slop, to which add, for a time, one ounce of lime water per quart. Stop feeding corn for the present.

CONTAGIOUS OPHTHALMIA.

My young bulls six months to one year old have sore eyes and then go blind. I do not think it is pink eye. They are in a low, swampy pasture.

This disease often seems to lurk in swampy pastures, but it is contagious and spreads from animal to animal. Often it is brought in by cattle or is contracted in infected yards, chutes, pens, cars and such like places. Change the cattle onto dry pastures and separate the affected from the well animals. Twice daily sponge the eyes of the infected animals with a solution of boric acid, using a fresh swab of absorbent cotton for each application. Two or three times a week dust the eyeballs with a mixture of equal parts of finely powdered calomel and boric acid.

ABSCESS.

A roan mare thirteen years old has a swollen udder. About a year ago she had a fall and the next morning I noticed her udder was swollen, forming in a few days into a little boil which broke open and discharged. The veterinarian whom I consulted cut the swollen portion in two places and now it is worse than before, forming several boils which break open and discharge pus, then close for a few days. She is very stiff in the hind quarters until it discharges again. Otherwise she seems well .

The udder is ruined and this mare should not be bred. Twice daily inject peroxide of hydrogen into the discharging places and twice a week use tincture of iodine in place of the peroxide. Once daily give the udder a rubbing with iodine ointment and if necessary change to mercurial ointment in a week. Try to milk out and get rid of the pus that forms. It may be necessary at the outset of the treatment to open the discharging places more freely and scrape away diseased tissues.

LAME COW.

A red cow seven years old came fresh last January, but has not come in heat since she calved. She has been getting thinner and thinner and is now lame in her hind legs. She has no appetite for any kind of feed.

Tuberculosis is to be suspected as the cause of the symptoms described and it is a contagious disease and incurable. Isolate the cow and have her tested with tuberculin and also better not use the milk before having her tested. If she is not tuberculous give her half an ounce of salicylate of soda twice daily in her feed and keep her in a sunny, dry box stall. She may turn out to have chronic rheumatism.

VACCINATION FOR HOG CHOLERA.

I have a herd of seventy-five May and June pigs and fifteen sows which I had vaccinated with the single treatment to prevent cholera. Will it be necessary to vaccinate again inside of forty days, and will it leave the germ on the place the same as if they had had the cholera? My pigs have been healthy, but cholera is in the neighborhood.

If the virulent blood is used at the time of the second vaccination the farm will be afterward contaminated with cholera contagion and double vaccination would have to be done yearly on all hogs. Consult your veterinarian and he will probably advise giving a second treatment with serum alone.

GROWTH IN TEAT DUCT.

Am milking a Jersey cow four years old, with a four-months-old calf, (which does not run with her). Have noticed a lump in her left front teat that hinders the flow of milk entirely. It is about two and one-half inches long and as large around as a lead pencil. Seems to work up and down in the teat. The udder above the teat feels and looks full, but does not feel feverish or swollen though it is tender to the touch.

Interference with the growth in the teat duct will be likely to do more harm than good and we would advise you to leave it alone. Rub the quarter of the udder above the blind teat with camphorated oil twice daily, to stop milk secretion and remove the soreness. If this does not suffice rub in equal parts of fluid extract of belladonna leaves and camphorated oil.

Oakdale Farm draft stallions owned by C. G. Good, Ogden, Iowa. See field note page 29.

WHAT BAD ROADS COST.

How states and counties are putting money in the pockets of the farmers by investing in the improvement of public roads is shown by a statement just issued by the office of public roads of the department of agriculture. Definte cases are cited in support of the argument that where bad roads prevail farmers are forced to move their crops not when the market price is favorable, but when the roads are favorable.

Two farmers living in separate counties, but at an equal distance from the cotton market, learned by telephone that cotton had advanced in price $1 per bale. The farmer living on a bad road responded by hauling one bale of cotton, which was all he could get over the unimproved road, while the other farmer was able to haul four bales, owing to favorable road conditions. The rise in price gained a profit of $4 to one man, and $1 to his neighbor.

It is shown in the statement that it is common for the farmer to find that he cannot haul his produce to market when prices are highest, because the roads are impassable. When the roads become passable, the time for market has largely passed and produce is conpelled to move in masses, which frequently gluts the market and breaks the prices.

Excessive fluctuations in market prices are seldom due to overproduction. They frequently take place in regions where the local production does not equal the annual consumption. There are counties rich in agricultural possibilities, burdened with bad roads, where the annual income shipments of food-stuffs, exceed the outgoing shipments in the ratio of four to one. Many such counties with improved roads could not only become self-supporting, but could ship products to other markets.

A farmer in Sullivan county, Tenn., a few miles from Bristol, had 100 bushels of Irish potatoes which he intended to market during the winter of 1907-1908. Owing to bad roads, he was unable to haul the potatoes at all, and they rotted in the cellar. Nevertheless, the price of potatoes at Bristol went as high as $1.40 per bushel in the meantime. Bristol merchant stated that during the winter as many as ten carloads of farm produce, including wheat, potatoes, and other supplies, were daily shipped in to feed not only Bristol, but the adjacent territory.

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Has many special features. Best form of HINGE DOORS, air tight and quick detachable, easy to operate. Best form of HOOP CONNECTION; all hoops can be tightened from doors, no seperate ladder needed. Best and most complete anchoring system. These special features with the best quality of Washington Fir material we can buy makes our silos the most complete, convenient, durable, and up-to-date silo to buy. Write for free literature, describing our silos and ensilage cutters. See our exhibit at Iowa State Fair.

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Storm Lake Iowa

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending August 10, 1913:

The drouthy conditions continued with increased severity until the 10th, when copious showers occurred over the larger part of the state, and were followed on Sunday night by heavy rains, accompanied by high winds in many localities. On the 8th the temperature ranged from 100 to 105 degrees over the southern sections, and were attended by hot winds. Corn in the northern part of the state has held its own remarkably well and gives promise of a good crop. In the southern counties corn has steadily retrograded and the condition has been reduced 20 to 50 per cent since July 15th. While much of the damage to corn is irreparable the rains will greatly improve the general condition and prevent further injury. The rains will also be of great value to potatoes, pastures, meadows and gardens, and will increase the water supply, which was getting scarce in the southern counties.

The following telegraphic reports were received on the morning of the 11th and show the amounts of rainfall for Sunday and Sunday night at the stations named: Des Moines, 2.49 inches; Cedar Rapids, 2.34; Albia 2.05; Marshalltown, 2.23; Waterloo, 1.36; Creston, 1.01; Burlington, .52.

Following is a summary of reports showing conditions of fruit on August 1, 1913: Apples, 83 per cent of the 1909 crop, or 5,600,000 bushels for this year Estimates show a decline in condition of plums from 65 per cent on July 1st to 56 per cent on August 1st. Grapes seem to have suffered no injury from weather conditions. The estimates indicate 91.5 per cent or only one-half of 1 per cent since July 1st. The crop will be exceptionally clean on account of freedom from disease due to the dry weather.

Geo. M. Chappel, Sec. Dir.

Ask your neighbor to subscribe for The Homestead.

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Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

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Come and see them or write.

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2 PURE bred bull calves, 6 and 8 mo. old at $65.00 and $75.00. A few pure bred cows and heifers at $225.00 to $275.00. Also some high-grade cows and heifers at $65.00 to $125.00. Most of these cows and heifers are to freshen this fall. Write for description, stating about what you want.
G. W. CURTIS - WINTERSET, IOWA

FOR HOLSTEINS
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T. H. RUSSELL, GENEVA, OHIO

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FOR SALE—One thirteen-months-old bull by Dutchland Hengerveld Winona Boy and out of a dam having a 7-day butter record of 31 pounds and a milk record of 627 pounds. The other is a calf dropped April 5, 1913, sire Pontiac Rag Apple Korndyke, and from a dam with extraordinary record. The older animal is a tried breeder. Both are of the best lines of blood. I am only selling them to make room. Write quick for special prices. Address
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250 HEAD in herd. Some very choice young bull calves. Write us; let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
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HOLSTEINS---Old and young bulls, cows, heifers, calves. Get our sale list. Prices low; quality the highest. Galloway Farms, Waterloo, Iowa.

DAIRY

DAIRYING FAVORS A GOOD HAY CROP.

To the Editor of The Homestead:

While a good many farmers of a certain neighborhood through which I not long ago passed were complaining of having a very poor crop of hay this year, it was my good fortune to stop for a little while at one place where they had the best hay crop I have seen in many a day. The timothy stood more than four feet high and of a fine dark green color, showing a fine state of fertility in the soil.

That day I rode through more than one mile where the grass was so poor that it does not seem to me it would be profitable to cut it at all. The men might "go through the motions," but the harvest would hardly pay for the time spent.

Why this difference in so short a distance?

Dairy farming did it. On the poor grass farms very few cows are kept, while on the farm where the good crop was harvested cows were kept right up to the limit. Everything the farm produces in the line of hay, grain, straw and corn fodder is fed out right on the place. The other men if they have an extra pound of hay load it up and haul it off to town and sell it. They do get some ready money that way, I know, and that jingles good in the pocket, but in a little while it is gone and the farm is so much the poorer for it.

The young man who came on the good grass farm a few years ago found it about like the other places in the neighborhood. He thought it over, talked it over with his father and they decided that the best way to build up the place was to add to the herd of cows. This was done and the farm is growing better every year. True, other things went with the dairying. More lime and some commercial fertilizer has been bought; but the cows are the mainstay of the farm operations. Last year a big silo was built and preparations made for still more cows. If this is done, the farm should be still better in the near future.

It is strange you men should be so short-sighted as to think that you can rob your farm of its fertility and still keep on year after year getting good crops. The two things are contrary to nature. You must feed the farm if you would have the farm feed you.

E. L. Vincent.

THE VALUE OF GOOD SIRES.

To the Editor of The Homestead:

No breeder ever established and maintened, for any considerable time, a herd of unusual merit except by the use of high class bulls, and no breed of cattle can be kept at a high standard of excellence without constant use of the improving and refining influence of such sires. Many breeders who through good judgment or by chance have secured an excellent and prepotent bull have had their herds lifted from an ordinary standing to the front rank and after being in the lime light for a few years sink again to mediocrity, all because the owner did not follow up the improvement with bulls of the same class. I am aware that it is of times difficult to find a successor to a great sire and some times bulls that are good enough in form to become champions in the show yard do not prove great breeders. These are exceptions, however, and are not in accord with rules of inherited merit. It is an unwise and easily discouraged man, therefore, who will allow his herd to lose its standard of excellence because he did not, at first attempt, find a bull the equal as a breeder of the one that had given his herd a reputation and standing for superiority. There are good bulls to be had, and certainly a case of this kind is one requiring perseverance if success and leadership are to be maintained in the face of strong competition. Hence the standing and success of the breeders own herd, as well as the continued supremacy of the breed, requires the use of only high class sires—bulls of rare individual form and prepotent power as well as excellence of breeding.

In different periods of Short-horn history there has been a tendency, on the part of some, to extol pedigree and to lose sight of individual merit. The former is very important, but without the latter it is a delusion and will bring only disappointment.

There have been in use in the United States, during the last ten years, several Short-horn bulls whose influence in improving and refining the breed has been marvelous. These bulls have had rare excellence in form and

The illustration shown herewith is that of Royal Blossom 9th, one of the many choice Duroc sows of the D. S. Cochran herd of Lincoln, Neb. This sow was purchased of the well-known Duroc breeder, J. S. Beem, Bethany, Neb. She is sired by Hunter's Crimson Wonder by I Am A Crimson Wonder 2d, and her dam is the famous sow, Royal Blossom 6th, she being a daughter of the great show and breeding sow, Royal Blossom 5th. Royal Blossom 6th is also the dam of some of the best Durocs in Nebraska, including the great Royal Wonder, a boar that will be heard from next season, and Crimson Critic, the Briggs Bros. boar.

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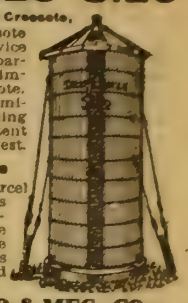

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richness of breeding, though some of them did not have the so called "straight" pedigree demanded of American-bred Short-horns. A list of such bulls would no doubt be of more than passing interest to Short-horn breeders, and when the suggestion for such a list first took form in the writer's mind, letters were sent to several owners of bulls that belong in this class of great producers, asking for data to be used in this article. The inquiry met a prompt response from two, a promise of information from two more and no response from others; so the information which I intended to give concerning noted Short-horn bulls can be given in detail for only two or three.

It is no partiality and no reflection on the owners of other noted sires to say that the two bulls that in recent years have exerted the greatest influence on the Short-horns of the United States are Whitehall Sultan and Choice Goods. In breeding they both represent the best Scotch blood with a dash of good Bates breeding and in form their unusual merit was fully demonstrated in the show yard. More of their sons and grand sons have gone to head herds than the produce of any bulls in modern days, and the impressive and improving influence of these great sires is being passed on to other generations of Short-horns. Possibly the most noted sons of Whitehall Sultan are Avondale and Glenbrook Sultan, while the transmitted merit of Choice Goods can be seen at Wooddale through the influence of Choice of All, at Hallwood through Choice Goods Model, in the Bellows herd where both sons and grand sons were used and in the Rees herd where the combined blood of Choice Goods and the great cow Ruberta is in evidence. It is difficult to estimate the value of such great sires as the two just mentioned. The owner of Whitehall Sultan reports that he realized $65,000 from the sale of sons and daughters of this great bull and in one public sale the produce of Choice Goods brought $32,000.

It would be interesting to give exact information about several noted sires of present or late days but the absence of the desired data prevents. But it is a pleasure to include in this list two bulls owned by a breeder who has been particular to keep high class sires at the head of his herd, Cumberland brought Mrs. Saunders of Iowa into prominence as a Short-horn breeder. This bull was bought during a great depression for $205, but proved a great breeder even when used on cows of ordinary merit. His best son, Cumberland's Last, succeeded him in the herd and has left a produce that stamp him as a great sire. An accident that impaired his virility at five years of age was a loss to his owner and to the breed. The sale of sixty-eight of his calves for more than $30,000 shows that his produce was appreciated by other breeders. The value of good sires should be fully understood by all Short-horn breeders and every one should have the best bull he can get. B. O. Cowan.

THE FARM EXHIBIT HELPS FARM AND MAN.

(Continued from page 3.)

some one else. Along with this there should be a short note giving in brief the steps which the exhibitor used in getting his grains to their present standard and also the prices which he charges as far as possible or subject to change as the demand exceeds the supply.

All in all the farm exhibit can be used to advantage in many ways. It merely brings out the originality of the farmer and his family and gives them an advantage over their neighbors who do not think it necessary to go to this trouble to get before the farming public and to stimulate a demand for one's products which in reality is the farmer's greatest fault. The farmer's greatest trouble today is not in the production of certain staple products but in their sale both from an economical as well as a financial standpoint, since but few producers actually sell their products to the consumer, several middlemen getting their share and then some of the price which the consumers are now paying.

Dorothy Long King by Long King, is one of the attractions, bred to A Wonder 143421, that sells in H. L. Pritchett's sale, New London, Mo., Aug. 21, 1913.

WAYS OF DETECTING POOR CLOTH.

Two good ways of telling whether or not the cloth you buy for "all wool" is really what it is represented to be, are given by Miss Annabell Turner, of the home economics department of the University of Wisconsin.

"Unravel a sample of the material exposing the warp and weft threads separately," she says. "Wool fibres are more curly than the cotton. Then burn some of the threads; if cotton, they will burn quickly; if wool, more slowly with an odor like burning feathers or bone.

"If cotton and wool have been spun together in the same thread the above test is not reliable. In such a case, the alkali test should be used. Mix together one tablespoonful of Lewis lye and one pint of water. Place the sample of goods in a granite dish, cover with solution, and boil for five minutes. At the end of this time all the wool will be dissolved out, leaving the cotton intact, so that it is very easy to see how much cotton was used to adulterate the 'pure wool' fabric."

Let your chicken house be roomy, clean, dry and well lighted, yet free from drafts. Have the walls as smooth as possible, so as to be easily whitewashed. Let the floor be of gravel or cinders, covered with a deep litter of straw.

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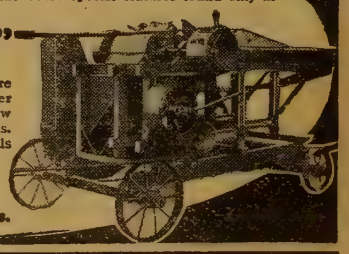

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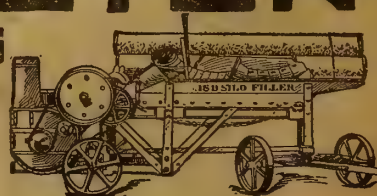

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SOME SUMMER POULTRY NOTES.

To the Editor of The Homestead:

A box of crushed oyster shells should always be kept in reach.

The hen needs a balanced ration, the same as the cow or the man.

Keep the coops for the small chicks at a distance from the hen house.

On cool, damp, rainy nights close all the ventilating windows of the hen house.

The color of the egg shells has nothing to do with the food value of the eggs.

Eggs cannot be produced without nitrogenous food in some shape. Bones are absolutely essential.

The roosts should be low, especially for large heavy fowls, and they should all be of the same height.

The nesting boxes should be in the darkest part of the hen house, and should all face away from the door.

Remember that the hens which lay the golden eggs are the ones that produce them when they bring the highest prices.

Sprinkle a little carbolic acid in the hens' dust bath occasionally. After each rain stir the dust and make it fine again.

It is said that if alfalfa hay is used for hens' nests and scattered around the chicken coops the chicken mites will beat a hasty retreat.

The products of the great American hen rank fifth in our agricultural products, and every year more people are realizing that there's money in hens.

Do not go into the poultry business. Grow into it. Start on a small scale and learn the details of the business before you put much capital into it.

When the hens stop laying they may often be started again by a change of feed, but do not give them much if any corn in summer, unless, of course, you have cooped them up to fatten for market.

Air slacked lime dusted everywhere will aid materially in destroying lice, gapes and roup. Prevent disease among your fowls rather than risk curing them after they are affected. Keep the quarters clean, and supply pure water.

One of the best foods for making hens lay is lean meat. When the supply of eggs begins to fail stop all other foods and feed lean meat or liver, and it will be found superior to anything that can be used. Green bone containing a large proportion of lean meat is even better. Be sure to remove the fat portions. Skim milk is another egg-producing food. Moisten all ground feed with it.

The lower your fences are, the heavier should be your breeds of poultry. One of the best breeds for the small patch farmer, or the business man or wage earner living in the suburbs, the man who cannot afford to put much money into expensive wire netting, is the light Brahmas. They stand confinement in narrow quarters, and they also stand cold weather. They are less subject to disease than some of the other breeds; they make good layers, and average in weight, when fully grown, about eleven pounds, so when you market your surplus stock you have something to sell. Other breeds which do well in the small patch or acre lot are the Plymouth Rocks, Wyandottes and the Rhode Island Reds. But if you have plenty of space for your chickens the cheapest breeds are the nervous, restless ones, which means that they are good rustlers and foragers for food, and will not need much feeding. The Brown or White Leghorn and the Black Spanish are among the best foragers.

To break a hen from setting take a steel trap, wrap a piece of thin cloth around each jaw, set it and place it in the nest, and when you hear the hen squalling take her out of the trap and set it again in the nest. It will rarely be necessary to take her out of the trap more than once. If you have a trap strong enough to hold a hog or dog it will also break them from trespassing.

Little chickens that run with the hens should have a place to eat where they will not be molested by the larger ones. Make a low slat shed and put the feed troughs in the center. They will soon learn to go into it, and will there be protected from sun and rain. It can be made of old boards and narrow strips, with places between for light. The posts may be driven into the ground and the bottom strips nailed on two inches or more from the ground. Cover the roof with paper of felt roofing.

To fatten fowls rapidly keep them in rather small coops where they cannot take much exercise. Keep the coops darkened by covering them with old cloths. This will keep the chickens from moving around in the coops. Give them soft food that can be easily digested—corn meal, ground oats or buckwheat in which quite a quantity of lard or tallow is mixed. This with plenty of pure water will fatten them in ten days.

Perhaps more failures result from over feeding than from any other cause. The laying hen and the growing chick need plenty of exercise and a good protein ration. Watch an old hen that has hatched a brood out under the bushes somewhere. She doesn't give them ideal care, but she does give them a diet that agrees with them. She scratches out a bug or picks up a seed, walks about considerably for the little she does get, and then each chick gets only a fraction of it all. You wonder as the days go by where they get water. You are familiar with seeing hand-raised chicks fill up on drink and moist food till their crops look like bladders. Your chicks get sick and die. Hers do not. They thrive and grow. They are lean but lively, and full of vigor. It is a worm here, and a bug there, a bit of gravel, a blade of grass, a scrap of fruit—an endless variety, but in limited quantities, and never mixed with the drinks.

Isaac Motes.

By hollowing out gourds and suspending them from trees and poles, an Illinois farmer provides nesting places for the native American birds, the wren and bluebird, and protects them from the aggressive English sparrow, which has a tendency to monopolize the desirable nesting places. The gourds designed for wrens have entrance holes about the size of a silver quarter. This is sufficiently large for a wren to pass through, but not large enough for a sparrow. The bluebird is about the same size as the sparrow, so a different arrangement was necessary. The farmer discovered that the English sparrows would not use the gourds if they were placed in the sun, but that the bluebirds would. Secure nesting places were therefore provided for the latter by suspending the gourds from poles placed out in the open.

The photograph displayed herewith was taken last season on the farm of Frank J. Rist, Humboldt, Neb., This is a field of University No. 42 Turkey Red wheat and this field shown made an average of forty-two bushels per acre. The same variety on Mr. Rist's farm will probably make fifty bushels this year. This is the best variety out of a thousand selected by the Nebraska State Farm, and is developed from a single head of wheat. Nothing better to be had anywhere, and the price is reasonable. Write Mr. Rist for prices and mention The Homestead. See advertisement on page 13.

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Chickens, feeding from the floor or ground, are especially liable to sickness from impure, musty or spoiled food and drink. They are also subject to easy infection of the mucous lining of mouth, nasal passages, eyes, throat, crop and bowels. **Germozone**, given in the drinking water, insures purity of the water and also of the food taken before or after. It regulates the bowels, giving those slatey colored droppings, tipped with white, that every old poultryman knows means HEALTH.

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FAHA'S Silver Wyandottes. Eggs from 5 best pens in America, 15, $1.25; 30, $2.00; 100, $5.00 Frank Faha, Jr., Box 620, Dyersville, Iowa.

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Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

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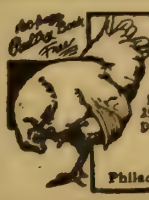

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PUPS for sale at reasonable prices. Fine and well marked. They are beauties. For prices and further particulars address **C. H. & Dewey Ohloff, Props., Postville, Iowa**

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THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want. **S. HARR - - - RIVERSIDE, IOWA**

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SCOTCH Collie pups for sale. Sable and white in color, perfectly marked. Sired by Hilander II No. 148502. Dam Willing Lassie No. 148503, two of the best heel driving dogs in the state. Price $5.00 for females and $10.00 for males. Write me quick. Le Roy Brown, Lamoni, Iowa.

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EGGS now only $2.50 per 15, from pen headed by first-prize cockerel at the big St. Paul show, 1911 Eggs from fine farm range flock only $3.00 per 100. H. E. Huston, Iowa Falls, Iowa.

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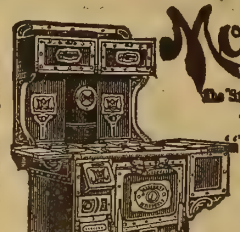

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

These are the days when a hammock under a big tree, and a lounge on a shady porch invite to refreshing rest dear to the man who has been toiling in the fields and dear, too, to the woman weary from labors in the kitchen.

Dog days are apt to be trying days to both the man and the woman, but sometimes they might be made less trying than they are.

Sometimes a man who already owns a 160 acre farm is so money hungry that instead of resting during the greatest heat of the day, he hurries back to the fields as soon as he has swallowed his dinner; and sometimes his wife is so over-burdened with work that she can find no time to rest though she has risen at dawn. Sometimes, where fields show careful tillage and where there is no lack of up-to-date machinery, never a tree shades the farm house although it lacks a porch to shield it from the blazing sun.

In such a farm home no one has had time to plant vines, and the chances are that the kitchen boasts only a wood or a coal stove which not only makes the housewife's tasks more trying, but also heats the whole house to such a degree that to rest in comfort is entirely out of the question.

How different conditions are—and how infinitely more desirable—where there are shade trees and porches, summer stoves and a sane determination to minimize hot weather discomfort as much as the thermometer and other circumstances will permit.

If a man, working in the harvest fields, has visions of a noonday meal in a cool place and a noonday nap in some restful spot, he is in a sense armoured against the heat; if a woman has a shady porch and a gasoline stove, the strain of summer cooking and preserving and ironing is materially lessened.

While the heat is oppressive and while the lack of summer comforts is a hardship, is the time to lay plans and to make resolutions which will materially improve conditions another year.

"Doing without" is all very well for a few years—while the current of life flows free—but such unwise action kept up year after year is equivalent to burning the candle at both ends and in late life the burners will pay dearly.

HOME AND HOMEMAKING.

CLOSE AT HAND.

The day is long and the day is hard,
We are tired of the march and of keeping guard,
Tired of the sense of a fight to be won,
Of days to live through and of work to be done,
Tired of ourselves and of being alone.

And all the while, did we only see,
We walk in the Lord's own company;
We fight, but 'tis He who nerves our arm,
He turns the arrows which else might harm,
And out of the storm He brings a calm.

The work which we count so hard to do,
He makes it easy, for He works too;
The days that are long to live are His,
A bit of His bright eternities,
And close to our need His helping is.
—Susan Coolidge.

TO CURE BILIOUSNESS.

What is known as a bilious condition can be corrected by taking a teaspoonful of sodium phosphate in a glass of hot water before breakfast every morning for two weeks. The juice of half a lemon added makes it more palatable and is also very beneficial. No medicine has its proper effect unless one is careful to eat proper food and follow the rules for healthful living.

GRAPE JELLY.

It is possible to have quite a variety in grape jelly by using the grapes at different stages of ripeness. Made from the green grapes you have a firm, tart jelly. A little later when the grapes have begun to turn they make a pinkish jelly. But grape jelly in its perfection, having that delicious grapey flavor and a beautiful amthyst color, must be made of grapes that have turned, but are not quite ripe enough to eat. If dead ripe grapes are used the jelly is not so nicely colored, and is more apt to have tartar crystals. For jelly that is transparent and that sparkles use only perfect granite or porcelain vessels and always a wooden spoon, for the acid in grapes acts quickly on tin. Take green grapes (preferably Concord) when they are full grown, but still perfectly green. Pick over carefully. Place grapes in kettle with just enough water to come around top edge of grapes (not entirely covering them). Boil hard, stirring frequently, taking care not to let them stick. When the grapes are thoroughly cooked and all is a thin pulpy mass, pour into a new cheesecloth jelly bag and let drip into an earthen vessel. Do not under any circumstances press or squeeze bag. After ten or twelve hours, or when bag ceases to drip, any remaining juice may be squeezed out into a second vessel and made up separately. It will be good, but not sparkling. The proportions are one pint of juice and one pint of sugar, but do not make up without first testing. Take one pint of juice and one pint of sugar in a small pan, put on hot stove and boil hard from the appearance of the first bubble for five minutes, pour out and let cool. If this test jells, proceed; if it does not jell, boil the juice without sugar hard for ten or fifteen minutes. Unless test was very far from jellying, juice should now work nicely, pint for pint.

AMONG OURSELVES.

Mrs. Madison of Iowa has an idea which shows what we might learn from our brothers and visitors of far-off lands:

The Chinese have a chest, which they call "go down," where they keep decorative articles, bringing them out only on holidays and festivals. Make a tour of the house, remove all unneces-

Costs little with a Fairbanks-Morse outfit. Gives you the brightest, healthiest, most convenient light known. Our low-voltage outfit is absolutely safe, easy to install and care for. Engine can be used for other farm machinery or water supply. Battery supplies current when engine is not running.

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Would you like to know about violins, cornets, drums, clarionets, or any other kind of brass, wood, wind, reed or stringed instrument. No matter whether you want a band, orchestra, solo or home use instrument, we have the biggest line in the West. In fact our line is so large we have to publish many different catalogues. We will send you catalog free of any particular instrument you are interested in. Write today and be sure to name what instrument you want catalog of.

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Free to Boys

Solve this Puzzle

H--S W-G--R

Can you fill in the blanks above and complete a well known baseball players name? You can if you try Just write and tell me whose name it is and I will tell you how you can get the fine complete baseball outfit pictured below.

There are seven splendid pieces in this great outfit. The ash bat is a good one. The mask is made of heavy wire, full size. The catcher's mitt is thickly padded, very heavy and has patented fastener. The glove is of tanned leather and has patent clasp. The ball is strongly stitched and will last. A neat, adjustable belt and a dandy cap complete this great outfit. Remember you get the whole outfit of seven pieces for a little easy work. Write me today and I will tell you just how to get it.

A. M. PIPER, 840 **Popular Bldg., Des Moines, Ia.**

sary things and those not of any practical use, nick-nacks and bric-a-brac. Take them and put them in the "go down." You will also come across things that will make a beautiful bon fire. After they have been removed for the summer months you will find you can get along without them during the winter, too. Have plain princess slips for house wear, save one light or bright colored one to wear at meal times only. It takes but a minute to change and the change acts like a tonic. Make a face wash of five cents' worth of bismuth, and a few ounces of bay rum and witch hazel, a few drops of glycerine; shake well before applying with cotton sponge; it is very cooling and improves the complexion. Draw the shades down early in the morning; it keeps the house cooler and more restful. Simplicity and restfulness go hand in hand with happiness. "Home, sweet home, there is no place like home," yet its a good plan to leave it once in awhile, if only for a day's outing in the woods with friends. If you think you can't go on account of ivy poisoning, then steep a tea of strawberry leaves and wash with it before going out and on returning. It's a sure cure, and excellent preventive.

"Keep cool" ideas are certainly in order this month, and that recipe for avoiding or overcoming such an unpleasant experience as poison ivy burning is something to be remembered.

Culling "gems" from author's gardens is as joyful an occupation as is gathering pansies or selecting ripening fruit. Aunt Belle has been having that delightful experience and is sharing her trophies with us:

Wrong is forever wrong,
It may be glossed until we know it not,
And painted till it glisten as the dew of heaven;
Yet still 'tis wrong and the omniscient Eye discovers it.
—W. R. Fisher.

In the strength of the endeavor,
In the temper of the giver,
In the loving of the lover
Lies the hidden recompense.
—R. W. Emerson.

We get back our mete as we measure,
We cannot do wrong and feel right,
Nor can we give pain and get pleasure
For justice avenges each slight.
—Aice Cary.

Words without thoughts to heaven never go. —Shakespeare.

Cheerfulness banishes all anxious care and discontent, soothes and composes the passions and keeps the soul in a perpetual calm. —Addison.

You must either serve or govern,
Must be slave or must be sovereign,
Must, in fine, be block or wedge,
Must be anvil or be sledge.
—Goethe.

Search thine own heart,
What paineth thee in others,
In thyself may be. —Whittier.

Conceit may puff a man up, but it will never prop him up. —Ruskin.

Her selections are unusual and will enrich our scrap books.

At this drivng season of the year, possibly there are many of our "house mothers" who may be tempted to fall into the mood against which Mrs. Saskatchewan warns them:

Some housekeepers do not go at things in the right spirit. They wonder why they cannot get this done and that done. Don't think so much about your work and you will succeed much better. Have you ever wakened in the morning and thought of the washing and cooking and sweeping and dusting, the children's lunch and that rent in John's coat that must be mended and company coming to supper, too? All at once you perhaps felt very sorry for yourself and thought how little you were appreciated and you worked up quite a melancholy feeling. True, isn't it? But, don't do it. The day will have begun wrong and each task will be a burden instead of a pleasure if performed in that mood.

There is probably nothing more destructive to happiness, if not to usefulness, than the giving way to such a mood as our friend warns against. Self pity is one of the most dangerous of sins. Self preservation, if for no other reason, demands that one do not yield to it.

A visitor, and not a member of the circle, supplies the next number of our program. I take pleasure in introducing Mrs. M. C. S.:

We had no ice so we rigged up a satisfactory contrivance to lower a galvanized box down into the well. It has been in use for ten summers and we don't see how we could keep house in summer without it. There are so many uses we find for it. We have nice, hard butter in the hottest weather where others claim they cannot make butter in summer without ice. When we moved to a place where there was not the right kind of a well we had one dug and cemented sides and bottom just for this special use and find it paid well. If there is a pump it is set to one side of well, a trap door is cut in platform of well and the "house" set over it. The iron hook is stapled on. It swings over so windlass can be stopped at any depth or height. Trap door is in two sections with hinges on each one and two V-shaped openings to admit ropes. Also on one a little hook and staple to hold it up when open. A galvanized box with iron rings at each upper corner through which rope is run is used. There is a removable shelf in box. We had a tinner make the box.

THE KODAK GIRL AT HOME

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It will do her cooking, boiling, baking quicker and with more satisfaction and less work for her than any other range made. It will be cheaper for **you** because it is more economical in fuel consumption, but especially because with only reasonable care it will outlast any two ordinary ranges. It will burn either hard coal, soft coal, coke or wood, having a roomy extension in the rear of the fuel box so as to increase the length when wood is used.

The "SILVER MONITOR" is **not** made of ordinary iron, nor even of steel, but of **Genuine Open Hearth**

Guaranteed **Rust-Resisting Non-Corrosive**

Has every improvement you can think of. Has glass oven door with thermometer. Has large broiler feed door with check draft for coal, and a drop front feed door for wood or coal. Clean-out is extra large and air tight and has a large ash pan with pail handle. The contact reservoir is of cast iron, with copper tank, contact on one side, furnished with Japanned covers; also supply reservoir with enamel tank. Every sale is backed by our Iron-Clad Guarantee of

Satisfaction or a New Stove

There is a lot more to be said about the material and the workmanship employed in making the "SILVER MONITOR" range the wonderful stove it is, and we shall be glad to send you our **free booklet** which contains a lot of additional information. Let us also tell you about our wonderful "MONITOR" radiator, as well as other heaters, steel and cast ranges, furnaces, etc., etc.

The Monitor Stove & Range Co., Main Office 501 Oost St., **Cincinnati, Ohio**

Dealers: If you want a line of stoves that sell themselves, that will please your trade, that give you a reasonable profit, write us at once. Our advertising department will co-operate with you and do everything to boost your business. **Warehouses** in Minneapolis, Omaha, Cedar Rapids and Milwaukee. We have an office and sample room at 1414 Wabash Ave., Chicago. **Prompt shipments guaranteed.**

Please send me your Free Booklet about the "Silver Monitor" Range

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the windlass was from a binder roller and a blacksmith put on the end and handle. The other work was home talent and not difficult to do.

One of the greatest disadvantages under which the country housewife labors in so many cases, is lack of ice, or other means of keeping butter and such things cool. The contrivance Mrs. M. C. S. describes is feasible and should commend itself to the circle. In a general way, using the well as the refrigerator is not to be commended for a simple accident like the dropping of a piece of butter or meat has been responsible for typhoid fever. A device, such as Mrs. M. C. S. uses, makes the farm well a comparatively safe ice box.

Now, while the housewife is so busy canning, jellying, preserving and pickling is a good time to provoke further interests in the cultivation of fruits and vegetables To this end we will have a prize essay contest, the topic to be "Our Garden and Orchard, why we think them worth while." The maximum length of articles to be 350 words, and be mailed not later than September 5. Five $1 prizes will be awarded for the best five articles. A variety of experience is hoped for.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

FARM LIFE.

(First prize.)

I have heard many people say they could not live on the farm, because there was not any excitement or pleasure; it was dull and lifeless. How can any one who loves nature and its beauties, who each spring day sees the young plants coming from the ground, and the woods full of wild flowers, say that farm life is lifeless? Is it not a pleasure to see these things?

The farm offers almost as many pleasures as the town or city; only they are different. Who does not enjoy the fish fries, the ice cream suppers, school entertainments, box suppers and various other enjoyments? Then, too, most of us have good horses or automobiles. This makes it very easy for us to go to the nearest towns, and enjoy the pleasures which cannot be furnished by the farm.

Some have the impression that country people are ignorant. This is not true. We find people on the farm who are well educated. I know of many farmers and their wives who have college education. Almost all farmers of today are striving to send their children to other schools, after they have finished the country public schools. Another proof of this is to read the letters and questions written by farmers in our farm papers. You can see from these that our farm people are not ignorant. Do these people who consider themselves above farmers, ever stop to think how many of our nation's great men were reared on the farm? In a short time from now I believe everyone on the farm will be proud to acknowledge that they are farmers, and I hope there are none who are ashamed of it now.

Martha, Mo.

OBSERVATION OF BIRDS.

(Second prize.)

I have just finished irrigating the garden, and am making my first attempt at writing to this column.

As I went up the path to the canal to turn in the water I noticed many works of nature. The meadow-larks were plentiful and were singing blissfully and the grasshoppers scattered wherever they went, for they knew they were after them for their breakfast.

A few days ago we finished stacking our first crop of hay this season, and when I was mowing the hay it made me sorry for the birds, as they flew about in the air looking down at the places where only a few minutes before the nest of eggs or nestlings were, in the thick, tangled hay, and several times I have seen the nest with the broken eggs not far off, but the grass was so thick I could not possibly see the nests to raise my sickle to prevent the disasters.

When the birds that build in the trees see these accidents, they should be glad that their nests are up high and out of this great danger.

Some of the birds that build in the hay are our most valued friends, such as meadow lark, black bird and the grass-hopper sparrow.

As I sit here writing I can hear a mockingbird singing in a tree not far off, and I can see a yellow-breasted fly catcher darting hither and thither, catching insects for his greedy little family in some nearby tree.

C. J. H., Colo.

Capturing a Swarm.

(Third prize.)

We live in the country and have quite a large house now, but used to have a small one until we built a piece on, and between the old part and new part there is a swarm of bees. They have swarmed three times now already.

The first time they swarmed they hung in an applie tree, and our neighbor got them; so papa said we wanted the next swarm, that came, and he gave us a beehive. In five days they swarmed again; then we poured water in between them, and they settled in another apple tree way up in the top.

They were very mad this time, three of them stung me and two my sister and two papa. My sister's hand was swollen for several hours; she could not do anything because it hurt her so. Papa wanted to get them into a hive, so he got a sack and put wire around the edge in the sack and we tied mosquito netting over his hat, and gloves over his hands. He climbed up in the tree and got them in the sack, and then he came down and put them in the hive. It looks very nice when they all hang in a pile under a branch.

Four days afterward they swarmed again, and papa was in the field plowing corn, so I went and poured water between them, and they settled right in front of the door in a tree. When papa came home they were settling already, so papa went back to the field; and the sun was shining so hot against the bees that they flew away again. Then we only had one swarm left. We have them down in the garden. They are gathering honey daily now.

In the fall we will take the honey and kill the bees; but we cannot get the honey of those in the house as they are too deep, and we would have to take all the siding off in order to get the honey, so we will get some of the bees next year again, if they swarm. We all like honey except mamma; she does not care for it.

Bee Girl, Ia.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

3d Quar. Lesson 7. Ex. 13, 17-14, 31, Aug. 17, 1913.

CROSSING THE RED SEA.

Israel made no hasty or clandestine departure from Egypt. Theirs was no attempted escape of fugitives from justice. They had a royal firman. The Egyptians fairly loaded them with gifts in hopes of placating the wrath of their offended Deity. The store of raw materials and metals they carried with them enabled them to make in the wilderness the tabernacle and its furniture and all their armor, offensive and defensive. Theirs was an orderly march. They advanced in tribes, each under its respective commander, Moses in the van, wonder-working rod in hand. In the midst, as a veritable palladium, Joseph's mummied form, inclosed in its hieroglyphic-covered casket, was carried according to his dying request. For sake of pastrage by the way for myriad flocks and herds, the advancing hosts must needs deploy widely to right and left. To direct a general course for these somewhat widely-sundered detachments, God unfurled his pennon in the sky. That banner served a three-fold purpose—signal, shield, and lantern. To Israel's dismay, Jehovah's ensign moved in the very opposite direction from that which would have been expected. Instead of indicating a course toward Suez, the bridge between the continents, it moved southward along the western shore of the Red Sea, thus placing an ever-widening barrier between the pilgrim caravan and the country which they sought. When the ever-alert Pharaoh saw this tactic blunder, this march into a cul de sac, the hope of recovering lost power revived in the despot's heart. Or possibly, it was the hope of revenge for the death of his son and heir, whose recently discovered epitaph (?) he was even then conning. He believed that the hapless Hebrews had unwittingly strayed beyond the jurisdiction of their God, who at best was only a local divinity, and would fall an easy prey. At sight and sound of pursuing chariots Israel was completely panic-stricken. They raised a querulous cry about there being plenty of graveyards in Egypt, and no need of coming to the wilderness to find one. On the dark background of this faithless and irascible conduct of the multitude the noble bearing of Moses shines with augmented luster. His "Stand still and see the salvation of God!" is an incomparable, inspiring bugle-note that has kept ringing through the ages. A moment later and the captain of the Lord's hosts stands on the edge of the comparatively shallow western arm of the sea. He waves his oft-tried rod. In response there comes from the east a violent wind which, in conjunction with an ebbing tide, leaves the bed of the sea uncovered. Deep pools to right and left formed a perfect defense (wall) rendering a flank movement on the part of the enemy impracticable. In the meantime the pillar of cloud went to the rear, and spreading out and hanging low like a curtain, completely screened Israel from the observation of their foes. The same cloud cast its powerful searchlight forward, revealing the way through the sea in its entire length. "Forward, march!" was now the inspiring command that rang along the whole column. Across the bridge which Jehovah had provided, the host, a thousand abreast, marched, and no little child, not even a lamb, was lost. The temerity sinners has no more striking illustration than the rash boldness with which the Egyptians essayed to use in pursuing them, the very bridge which God had made for his people. Pharaoh soon found he, not Moses, was in the cul de sac. God thundered and lightened out of his cloud, phenomena so rare in Egypt as to strike terror to man and beast. Progress of the Egyptain host was delayed until flood-tide, when the wind abated, and the condi tions which had favored Israel being exactly reversed, the Egyptians were whelmed in the deep.

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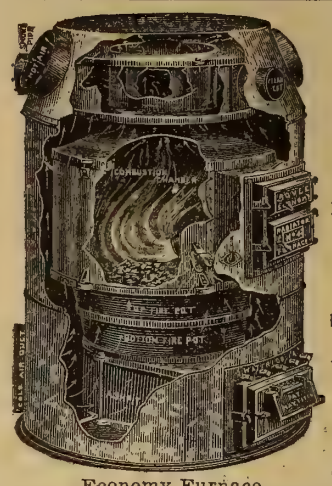

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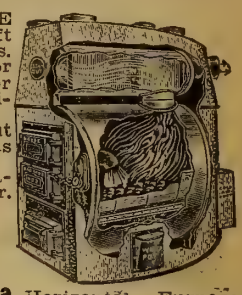

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The roof is the mainstay of the building.
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And Genasco applied to your roofs with Kant-leak Kleets gives perfect protection. Write us for the Good Roof Guide Book and samples.

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Largest producers of asphalt, and largest manufacturers of ready roofing in the world.
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in each town to ride and exhibit sample 1914 bicycle. *Write for special offer.*
Finest Guaranteed 1914 Models **$10 to $27**
with Coaster Brakes & Puncture Proof tires.
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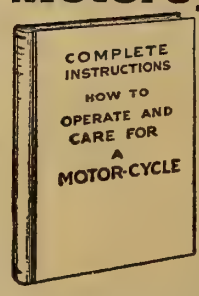
Boys! Learn to Run a Motorcycle Free



EVERY boy should know how to run and operate a motorcycle whether he owns one or not, and we will send ***absolutely free*** — all charges paid—one of these books which tells just how to start, stop and everything necessary to know about running a motorcycle.

1500 Votes Free

We are going to give away a two-cylinder $285 motorcycle free to some lucky boy and if you answer promptly we will actually give you 1500 votes to count on this splendid machine and tell you just how to win it for your own. Send at once as the books of instruction are limited.

Popular Co., 750 People's Bldg., Des Moines, Ia.

COOLING BY EVAPORATION.

To the Editor of The Homestead:

A cooling box of much interest to those not having ice can be made as follows: Get a large stone jar and a box, nearly square about six or eight inches larger than the diameter of the jar, and a little deeper than its height. Set the box in a shady place, put into it a layer of sand about three inches deep, place the jar in the center of the box and fill in sand to about three-fourths the height of the jar. Wet the sand thoroughly, cover the jar to keep out the dirt, and cover the box with a screen or netting. Butter, milk, etc., placed in a cooling box so arranged will keep nicely for some time. The evaporation of the water in the sand keeps the jar and contents very cool. As the sand becomes dry supply plenty or water. Fred G. Person.

Colorado Agricultural College.

When small grain is ripe it is impossible for the weather man to suit everybody. Some want dry weather for harvesting and some want rain for their corn while others want both at the same time.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6069 Girls' Dress.—Linen or gingham can be used to make this dress with the belt of ribbon or velvet. It is made with a yoke and closes at the back. The long or short sleeves and high or low neck can be used.

The pattern 6069 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 2⅜ yards of 36-inch material with 2¼ yards of ribbon. Price of pattern ten cents.

6115 Children's Dress.—This pretty little frock is made of pale blue linen with the sash of black velvet. It closes at the front and may have long or short sleeves.

The pattern 6115 is cut in sizes 2, 4 and 6 years. Medium size requires 1⅞ yards of 36-inch material. Price of pattern ten cents.

6075 Girls' Princess Slip.—This pretty little princess slip can be made with or without the circular flounce and with the round or square neck. Muslin or longcloth can be used for this slip.

The pattern 6075 is cut in sizes 4, 6, 8, 10 and 12 years. Size 8 years requires 2⅝ yards of 36-inch material, 2⅝ yards of insertion, 2⅛ yards of wide edging and 2¼ yards of narrow edging. Price of pattern ten cents.

6026 Misses' and Small Women's Waist.—A very pretty waist for the miss and small woman is here presented. The garment is made with peplum and the new-style drooping shoulders with joined-on sleeves is noted. The chick turn-down collar adds further attractiveness and there is a frill of edging to decorate the front. A row of tiny buttons give additional trimming effect.

The pattern 6026 is cut in sizes 14, 16 and 18 years. Medium size requires 2½ yards of 36-inch material and ¾ of a yard of edging. Price of pattern ten cents.

6101 Ladies' Skirt.—This skirt is cut in two pieces. The closing is made at the left side of the front and the empire or regulation waistline can be used. This skirt can be developed of serge or bordered goods.

The pattern 6101 is cut in sizes 22 to 30 inches waist measure. Medium size requires 2⅝ yards of 44-inch plain goods. Price of pattern ten cents.

6077 Misses' and Small Women's Dress.—This dress closes at the front. It is made with a vest. The three-gored skirt can be made with either the empire or regulation waistline. Linen or ratine can be used to make this dress with the revers and insert at the bottom of the skirt of contrasting material.

The pattern 6077 is cut in sizes 14, 16 and 18 years. Medium size requires 4 yards of 44-inch material with ⅞ yard of 27-inch contrasting goods. Price of pattern ten cents.

A PLEA FOR STATE AID.

With 1,100,000 automobiles in use and 2,200,000 miles of road it is to be noted that now in the United States there is a motor-driven vehicle for every two miles of highway.

"Many public men have not realized the change this class of vehicles has wrought in commercial as well as social conditions," comments Robert P. Hooper, former president of the American Automobile Association and recently re-elected for the seventh time as the head of the Pennsylvania Motor Federation. "Their minds do not seem to readily absorb the logical resultants of the fact that the city ninety-four miles away is as accessible for business purposes with a motor vehicle, as is the railroad station 9.4 miles distant, with a team and wagon. (Nine and four-tenths miles is the distance of the average American farm from its nearest shipping point, according to statistics gathered by the United States Office of Public Roads.)

"It is a fair proposition that a large percentage of automobiles are utilized in part or wholly for commercial purposes. There are and can be no county or township lines in traffic over roads. The resident in any agricultural comunity does his selling and buying in the city or village most accessible, whether in his own or in another county, or even in an adjoining state; and as accessibility is often a question of roads, he frequently finds fifteen miles over a good road more easily negotiated than five miles over an unimproved road.

"Certain roads in every community (amounting, according to the best authorities, to about 15 per cent of the whole road mileage) are the main roads over which passes upwards of 80 per cent of the local travel. When a single county in a given section improves its main roads, a vast traffic is at once diverted to those roads, this multiplied traffic requiring systematic and unusually costly maintenance. The local community is benefited, of course, but so are the adjoining counties and neighboring states.

"Mecklenburg county, in North Carolina, is an excellent illustration of this feature of the economics of road improvement. Some years ago this progressive county issued bonds and built an excellent system of macadam roads. The initial advantage was at once apparent. Farmers increased their acreage of crops, production became much greater, marketing cost less, and real estate values were enchanced from 25 to 100 per cent. Then came new traffic conditions and through travel of a whole section of the state was diverted over the good roads of Mecklenburg county. The travel between the North and South assumed larger proportions and went by way of Mecklenburg county because of its good roads.

"As a matter of fact, the injustice to the taxpayers of Mecklenburg county must be apparent to every fair-minded man. But Mecklenburg county is not alone in position. Nearly every county in the country lying along the route of a main throughfare in states where state aid has not been adopted finds itself in a similar situation, either with improved roads which from outside traffic are wearing out, or else prevented from making improvements by the not unnatural feeling of the people that they cannot afford to build and maintain roads upon which would come the greatest use and wear from outside the county, with no corresponding advantages. The logic brings the inevitable conclusion that it is the duty of the state, in justice to the people of the counties, to build and maintain the roads over which passes the through travel of the people of the state, and the duty of the nation, in justice to the states, to construct and maintain those important through routes which connect the great centers of population and commerce."

CARING FOR THE BABY IN HOT WEATHER.

To the Editor of The Homestead:

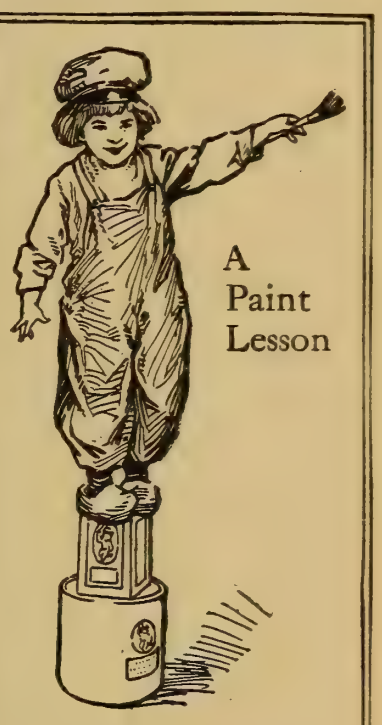
Keep the flies from your baby—they are more dangerous than elephants. The big things show the big danger. The little fly buzzes into manure heaps, filth, putrefacton, and then comes to baby bringing all kinds of disease germs. Flies are deadly. If baby is unable to overcome the deadly germ the fly brings, baby leaves you. I have been watching the work of deadly flies for many years. I know two families living in the little town of B. B. These families were neighbors,—one lady brought out a family of three, and they are robust youngsters. Mother kept them out of the reach of flies. She went hunting for flies, covered her youngsters regularly in the summer time. The other mother did not believe a little fly could hurt her young—she paid no attention to the fly. One by one she laid away her babies until now they are three silent, empty places in her heart, and gloom is in the household.

If you can't keep flies out of the house, cover the baby with a netting, or if you can't afford a net, get a piece of cheese-cloth—anything that will give baby air. See that the baby gets air, and keep it away from the fly.

If you can get a little carbolic acid, mix with one part of carbolic acid and three parts of water. Get a whisk broom and spray with the broom on the floor of the room where baby sleeps in the daytime. We will need good men and women for our future—don't let the fly carry one single one away. The danger is in front of you, it's as real as a big elephant.

When baby cries, try to find out the reason. It may need a spoon of water, it may be a bandage that's too tight, it may be it has laid in one position too long. Coo to baby, but use your mother judgment. Of course, it's hot and you have so many problems too, only baby's problems are solved by you. Try to overcome your irritation before you pick up baby. It's part of you, if you are cross, baby is more than likely to be cross. This life is hard, but it is easier if you are of good cheer. —Theora Carter.

The Canadian government has supplied 25,000,000 tree seedlings to farmers, principally in the Alberta and Regina plains regions. The United States does not supply young trees to the public, except in a limited area in Nebraska, under the terms of the Kinkaid Act.



A Paint Lesson

We paint ten times for our eyes' sake to once for the sake of the building. The poorer the paint the oftener we must renew it to maintain the building's good appearance.

The beauty of a painted building lasts two or three times as long if secured by paint made of Dutch Boy White Lead and Dutch Boy Linseed Oil.

Dutch Boy White Lead—white in the keg—any color you want to make it on the house.

Dutch Boy White Lead in steel kegs, 12½, 25, 50 and 100 lbs. Dutch Boy Linseed Oil, 1 and 5 gallon sealed cans. Ask your paint dealer.

Let us send you "Painting Packet No. 52" full of facts every house owner should know about painting. Also Handy Book on Painting full of information for the man on the farm. We will include our catalogue of 150 beautiful stencils for walls.

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New York Boston Buffalo
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TREATMENT OF IDLE HORSES.

To the Editor of The Homestead:

The following item, which is of vital importance if properly considered, has been brought to my attention:

This morning we are compelled to do a piece of work which we hate to do very much, to haul to the burying ground one of our better work horses. He took sick at dusk last night and died at two o'clock this morning. Symptoms were more of poisoning than anything else, although we pretend not to be a "hoss" doctor and may have guessed wrong. In what way he could have gotten poison in his system we cannot even surmise, as he had not been worked for the last two days and had been standing in the barn eating his usual ration. But, as the saying is, "Those who has 'em has to lose 'em."

Poison begins to permeate the system of a horse the moment the animal is deprived of its usual work or exercise and is fed its ordinary rations. During work or adequate exercise the horse uses up the nutrients of its feed in repair of tissue waste, generation of energy, work of organs and maintenance of body weight. All of the excretory organs are active and waste or effete matters are thrown off. Reverse this order of things and the excretory organs become overtaxed and out of order. Effete matters are not perfectly eliminated, toxins (poisons) form and prove injurious. These may be stored up and become actively injurious when the horse is again worked; or they may at once enter into the blood circulation and prove immediately, but less violently, detrimental. In addition to this form of injury suffered by the idle horse, indigestion is apt to follow consumption of regular rations no longer imperatively needed for the uses just mentioned. Colic, in various forms, is the most dangerous and fatal effect of such derangement of the digestive organs, while various skin disorders, slight ailments and abnormal conditions are due to the same cause. The horse mentioned in the clipping printed here no doubt succumbed to some form of colic induced as suggested. Poisoning from feed is more apt to take the form of forage poisoning, such as that which killed hundreds of horses in Kansas, Nebraska and some other states last fall. Such poisoning is due to microscopic fungi, molds or growths upon pasture grasses or fodder and is apparently induced by certain peculiar conditions of the atmosphere and therefore to be looked for only in certain abnormal seasons. Cerebro-spinal meningitis is of somewhat similar nature, and causation. It is unlikely that either cause led to the death of the horse in question. Whatever disease was present its explanation is almost certainly stated in the following words from the above quotation relative to the stricken horse: "He had not been worked for the last two days and had been standing in the barn eating his usual ration."

If every farmer and horse owner would make it his invariable rule and practice never to let a horse stand a single day idle in the stable and always to greatly lessen the ordinary work ration during spells of idleness, thousands of deaths would be prevented each year and a host of horse ailments wholly prevented.

That terribly fatal disease, azoturia, always is caused by exercise following a period of one or more days of idleness during which time the horse is fed his ordinary ration of oats and other rich feed. In one day, following a great snow storm which caused enforced idleness of work horses in New York City, upwards of 100 dead and paralyzed horses were hauled off the streets. In Chicago every holiday and every storm used to be followed by many fatal and disastrous cases of azoturia. In both cities, and in all cities where graduate veterinarians are employed and barn foreman properly warned and instructed, azoturia has become far less common than used to be the case. The simple reason for this happy improvement is that the common sense (horse sense, if you will) plans given above have been made the rule and absolute order of stable management and practice. Azoturia, unfortunately, still is quite common and always the cause of fatalities, work, worry, loss of time and unnecessary expense on the farms and in the improperly managed stables of country and city alike. There need never be another case of azoturia anywhere if the simple preventive measures we have suggested are religiously adopted by every horseman everywhere.

Another detrimental disease to be prevented in exactly the same way as here set down in regards to azoturia, is lymphangitis, often called "Monday morning disease," or "milk leg," or "weed," or "a shot of grease." This disease is characterized by sudden, painful swelling of the lymphatic vessels on the inner side of the horse's hind leg, accompanied by fever, fast breathing, sweating, acute lameness and lack of appetite and resulting in extended swelling of the entire leg, or of both hind legs. Occasionally a fore leg is affected. The symptoms of azoturia are sudden knuckling over of a hind fetlock joint, profuse sweating, hard swelling of the muscles of the hip and thigh, dark coffee-colored urine, fast, full pulse, reddened mucous membranes, great nervous excitement and finally, in acute cases, paralysis and death. In sub-acute cases one hind leg is affected and paralysis may or may not occur and may be recovered from; but in some of these cases the muscles of the stifle and thigh waste away and recovery may be slow or imperfect.

Let everyone prevent both of these diseases, both for economic and humane reasons, by enforcing adequate exercise and feeding light, laxative rations to the work horse that suddenly has no work to do. Those who have 'em don't have to lose 'em.

A. S. Alexander, M. D. C.,
University of Wisconsin.

WOODPECKERS AND FRUIT.

A certain orchardist boasted that he had shot 527 woodpeckers in four years. He believed they were destroying his fruit and injuring his trees. Was he justified or not in this wholesale destruction of bird life?

There are five kinds of woodpeckers universally distributed throughout the northern tier of states east of the Rockies. Every farmer comes in contact with them. These are the hairy woodpecker and his diminutive cousin, the downy woodpecker, the yellow-bellied sap-sucker, the red-head and the flicker or "yellow-hammer." These are the more common varieties; other species are less abundant, also less generally distributed. A study of these five kinds will therefore pretty nearly determine the status of this particular family of birds from an ecconomic standpoint.

It is generally recognized that all woodpeckers are beneficial in so far as they destroy injurious insects. They become a menace to the extent that they injure fruit trees, eat fruit, or destroy insects which in their turn prey upon injurious forms of other insect life. Whether woodpeckers are harmful or useful to the fruit raiser depends upon which of these factors overbalances the other.

In regard to the fruit-eating habit the red-head is by all odds the one individual that has the most damaging evidence to his discredit. He is accused of attacking small fruits and grain, and these accusations are probably well founded in certain localities. He also appears to be less helpful as consumer of insects which are injurious to fruit trees than either the downy or hairy woodpecker, but on the whole the balance is rather in favor of this particular bird than against him. He does consume more or less harmful insects, and his great love for grasshoppers in the late summer and fall will undoubtedly place him in the list of useful birds. Especially during outbreakes of the seventeen year locusts has he been found active in the defence of the farmer's interest.

The flicker eats but comparatively little of our cultivated fruits. His greatest service to the fruit grower is in the destruction of ants of which he is exceptionally fond. Ants of themselves do no great harm save that they protect and foster plant lice in every possible way, and plant lice are one of the worst enemies of the horticulturist. Hence the flicker does the fruit raiser a distinct favor. As many as 5,000 ants have been found in a single stomach of this species.

The hairy, downy and sap-sucker look very much alike to the average person unacquainted with birds, yet these three species contain the most helpful and most harmful of woodpeckers. The yellow-bellied sap-sucker is the same size as the hairy woodpecker, but the male has a bright crimson patch under the chin. The downy is smaller than either, and carries his red patch on the crown of his head. Both the hairy and downy are indefatigable workers, and among the most zealous gleaners of insect life from the bark and crevices of fruit trees. The downy is the arch enemy of the dreaded codling moth which attacks our apple trees and in the winter he destroys innumerable pupae and larvae of this insect.

All woodpeckers eat more or less cambium which is the soft, jelly-like substance found just under the bark of a growing tree. It is the substance from which both the wood and the bark are formed. A woodpecker's onslaught upon a fruit tree for this substance may in extreme cases kill the tree. However, but one of all the many varieties of woodpeckers has been found to be addicted to this habit to excess. This is the yellow-bellied sap-sucker. Of all the woodpeckers under consideration he is the only one which can really be condemned as being more harmful than helpful to the orchardist. He consumes large quantities of ants and injurious insects, and to this extent is entitled to favorable consideration, but the harm which he does in attacking the juices of growing trees more than counterbalances the good that he does in other directions.

Orin Edson Crooker.

TIP LAYERING.

To the Editor of The Homestead:

The black raspberry, the new hybrids and the dewberry are all propagated from tips. The end of the vine of the present season's growth sends out roots when it remains in contact with the earth for any considerable time. If the object is to get as many new plants as possible, these new canes should not be pruned back, and ground should be kept in good condition by late cultivation. Every vine will easily root without any help from the grower. They will often root in the hardest soil if the tip is allowed to touch the ground. The tips should remain as they are without being separated from the parent vine till the following spring, when they may be cut off about six inches from the ground and transplanted where they are to grow.

If new plants are not desirable, the new canes should be pinched back when two feet high, so that they will branch, and stand in an upright position, the tips not being able to reach the ground.

H. F. G.

Wild rice, according to a consular report, is "the most nutritious cereal in America." The plant has a long black grain, and hence is sometimes called black rice. It has been used from time immemorial by certain Indian tribes as their principal food. In recent years it has come into the white man's markets, selling for considerably more than ordinary white rice.

LANDS AND HOMES

IOWA FARMS
WRITE for my large 1913 list of South Central Iowa farms, all sizes, abundance of fruit and water, good terms. The cheapest good land in Iowa today is in Madison, Union and Clarke counties. Address
J. G. SHRIVER - - WINTERSET, IOWA

SOUTHEASTERN KANSAS
IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

FOR SALE—Eastern North Dakota, slightly rolling quarter section; no improvements. One mile from county seat, black soil; town has 5 elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Ave., Peoria, Illinois.

LANDS in Nebraska, North and South Dakota, Minnesota and Iowa for sale. Write for descriptive list and prices to G. L. Buckley, Pawnee City, Nebraska.

FOR BARGAINS in real estate for sale or exchange anywhere, address Sewell Land Company, Garnett, Kansas.

FOR SALE, OHIO SILO FILLER
SIZE 17, with thirty feet of pipe, two sets of knives, with, or without trucks. New, run only ten days.
L. F. LEFEBURE - - FAIRFAX, IOWA.

PUBLIC SALE OF OKLAHOMA SCHOOL LANDS

Notice is hereby given that the state of Oklahoma will offer for sale at public auction at the times and places herein set forth 560,290 acres of its school lands, as set forth in pamphlet advertising said land for sale.

All lands will be sold at the door of the county court house of the county wherein the land is situated:

Boise City, Cimarron county, 385,376 acres, September 22 to October 10, 1913.

Guymon, Texas county, 182,874 acres, October 13 to October 29, 1913.

The terms of the sale are 5 per cent of the purchase price cash, at time of sale, and in no event shall the initial payment be less than $50. The balance of the purchase price is divided into forty equal annual payments with interest at the rate of 5 per cent per annum, payable annually. Prospective buyers will bear in mind that these lands are unimproved, and the lessee has no preference right to purchase. There positively will be no improvements of any kind to be paid for by the purchaser, and a lessee has no more advantage than a non-resident of the state. Also that 1,280 acres or any subdivision thereof of these lands can be bought by one person. A pamphlet containing full and complete description of each tract of land with the appraisement thereon to be sold together with all the laws, rules and regulations can be had postage prepaid upon application to the commissioners of the land office at Oklahoma City, Okla. Address all communications to John R. Williams, secretary, 502 Mercantile Bldg., Oklahoma, City, Okla.

CENTRAL WISCONSIN
Farms That Are Farms
IN the Marshfield District where ten cows bring in $3.00 to $4.00 daily before breakfast; where pastures are always green and two acres will graze three head during the season; where better than $250,000.00 is paid out monthly for butter and cheese. Great possibilities in hog, dairy and cattle business here. We prove these statements and sell the land that proves it. Some nice tracts of wild, agricultural and grazing lands left. Send for booklet and other information, also list of improved farms. Reference: The people we sell to.
Cole's Land Agency, Marshfield, Wisconsin

WE are colonizing a large tract in the Shallow water district, Logan county, Colorado. Finest farm land in the West. Wheat yield this year 46 bu. per acre. Land pays for itself in two years. We put in forty acres of crop free of charge. Good terms and low prices. Best of soil, level roads, fine water and good markets. Write for free circular and midsummer rates. Platt River Valley Land Co., 1119-22, City Nat'l Bank, Omaha, Nebraska.

LANDOLOGY FREE A magazine giving the FACTS in regard to the land situation. 3 months' trial subscription. If for a home or investment you are thinking of buying good farm land, simply write me a letter marking it "Personal" and say, "Mail Landology and all particulars free."
Address: LLOYD M. SKINNER, Gen. Mgr.
Skidmore Land Co., 123 Hall Ave., Marinette, Wis

NOW IS THE TIME
TO PURCHASE LANDS IN SOUTHERN MINNESOTA. Send for our price list of our fine improved southern Minnesota corn lands. Come and see what we can do in raising corn and small grain. You will be infatuated. **New Richland Land & Loan Co., New Richland, Minn.**

Southern Minnesota Corn Farms
FIVE improved farms in Blue Earth county, 25 miles from the Iowa line. Two 120 acres, two 160 acres, one 400 acre. Prices cheap, terms easy, good reasons for selling.
B. F. McGREGOR - MAPLETON, MINN.

AUCTIONEERS
LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

RICH, level, productive land near main-line railroad; good building material cheap and easy to get; good water, fuel, markets; free range; best proposition yet offered for general farming and stock raising. Write Now to Inter-State Land Co., Lock Box 899, Omaha, Neb.

SOUTHERN MINNESOTA CORN LANDS
GROWS any grain Iowa farmer grows. Improved land $65 to $125 per acre. Address
McCadden & Allison, Fairmont, Minnesota

IOWA FARMS--- Write today for our Special Farm Bargain List. Farms of all sizes for sale, and the cheapest **good** land in Iowa. **SEE** these before buying; we can suit you.
E. E. McCALL - - WINTERSET, IOWA

23,120 ACRES state land for sale in the Judith Basin of Montana. Fine land for dairying, grain raising and stock. Write to Commercial Club, Stanford, Montana, for particulars.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

FOR SALE—Two Eighty-Acre Tracts, unimproved; one about 20 per cent timber; in rice district, Ark. C. O. ROSKOTEN, Peoria, Ill.

MISSOURI FARM LANDS. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

THE FARMERS REPAIR SHOP.

To the Editor of The Homestead:

The writer is impelled to write this article by the knowledge that few farms, if not the majority, have any facilities for making even the commonest of repairs. A good rip and hand saw are cheap and if well taken care of will last a life time, and a good hack saw is almost indispensable.

A good set of Coe's wrenches is the best equipment in this line, they come in 6, 8, 10, 12, 15, 18 and 21" and a use will be found for all them. Don't try the cheap, so-called agricultural implement wrenches, as they are cheaply made and the best grade will out wear them many times over.

A set of S wrenches, a couple of alligator wrenches with 10 and 15 inch pipe wrenches will be about all in the wrench line.

A two and a half pound blacksmith hammer and a one pound or one and a quarter-pound riveting hammer will be essential.

If a gas engine is used on the farm it can run a drill, grindstone and emery wheel, but be careful and not speed up a grindstone too much as it is likely to be reduced to punk.

A square, rule and tapeline are also needed. On some farms there can be found anvil and forge and they pay for themselves over and over, but it takes considerable skill and experience to do good blacksmithing.

These few tools do not cost any great sum and are a good "starter" and they may be added to as the owner acquires skill and experience.

Maple Park, Ill. F. W. Barrow.

Wm. Galloway, Pres.

Let Me Save You $50 to $75

Let me save you $50 to $75 on the best portable elevator and wagon dump ever built. You can't buy a better built, stronger, faster working or handier outfit than the Galloway at any price, so why pay nearly twice my price to your dealer? Why not buy a Galloway direct on my positive 30-day free trial offer at my one-factory-profit plan and save $50 to $75?

Last year we were clear oversold before the season was hardly started. This year we are prepared to supply you promptly **if you get your order in at once.** Now, don't wait. You can't afford to be without a good portable elevator because it will pay for itself the first season. But don't buy a portable elevator of any size or make at any price until you get my big book telling you about the new Galloway.

Write Today for Low, Direct Factory Prices

Built with metal bottom, grain tight. Any length, 24 feet or more. Equipped for operating by sweep horsepower or gasoline engine. Simplest and most powerful hoisting arrangement ever used on any elevator—easier to raise and lower than any other. Will handle a load of corn or small grain in two to five minutes. Requires less power to operate. Power can be applied from either side. Wagon dump will work on either side. Is suitable for either single or double cribs. Has overhead lifts so you can use it at butchering time to advantage. It's just the outfit you have been looking for.

Write Today Without Fail

for low, direct prices. Get our big catalog telling all about it. Write now, before you put this paper down. Just address:

Wm. Galloway, Pres.

WM. GALLOWAY COMPANY

11 Galloway Station Waterloo, Iowa

521

NEWS OF THE SALE RING

The Larson Duroc Sale.

An unusually large crowd of breeders attended the sale of O. S. Larson, Logan, Iowa, on August 7th and he dispose of forty-one head at an average of $72.43. Nineteen head of boars sired by King The Col. made an average of $98.50, the top being the two-year-old King The Col. Jr., who went to John Garis, Rhodes, Iowa, at $475. Mr. Garis had traversed the state the past three weeks looking for a boar and finally wound up by buying this splendid hog. The top of the spring boars were Nos. 30 and 21 that went to J. Wellendorf and Will Moderow at $115 and $135 respectively. Thirteen sows bred to old King The Col. made an average of $60. It was an unusually good sale, especially for this season of the year and Mr. Larson has every reason to be pleased with the outcome. Colonel Kraschel cried the sale. Below will be found a list of the sale offering:

1.	John Garis, Rhodes, Iowa	$475.00
2.	John Garis	70.00
3.	C. A. Zelmar, Atlantic, Iowa	60.00
4.	T. E. Giddings, Logan, Iowa	55.00
5.	Joe Seddons, Persia, Iowa	56.00
6.	Sam Stewart, Kinnard, Iowa	50.00
7.	T. E. Giddings	46.00
8.	H. E. Evenson & Son, Roland, Iowa	52.00
9.	Willard Robbins, Lyons, Neb.	64.00
10.	Henry Stuthman, Pilger, Neb.	67.50
12.	Wm. Moderow, Beemer, Neb.	65.00
13.	Oakwood Farm, Gorhman, Ill.	62.00
14.	Herman Toelle, West Point, Neb.	73.00
15.	Oakwood Farm	60.00
16.	John Carr, Logan, Iowa	36.00
17.	Willard Robbins	132.50
18.	Oakwood Farm	50.00
19.	Rude & Son, Moorehead, Iowa	36 00
20.	F. E. Merrick, Osceola, Neb.	125.00
21.	F. A. Schoefield, Columbus, Neb.	102.50
22½	Rumsey & Son, Washington, Neb.	72.00
23.	Henry Stewart, Missouri Valley, Iowa	41.00
24.	J. A. Kiddee, Osage, Iowa	40.00
25.	C. F. Johnson, Logan, Iowa	35.00
26.	J. W. Kent, Auburn, Iowa	51.00
27.	Chas. Leonard, Logan, Iowa	30.00
28.	Rude & Son	26.00
29.	A. L. Neville, Aurelia, Iowa	39.00
30.	J. Wellendorf, Algona, Iowa	115.00
31.	Wm. Moderow	135.00
22.	A. B. Dowlin, Maryville, Mo.	80.00
33.	John Thompson, Lake City, Iowa	85.00
35.	H. E. Wegter, Sheldon, Iowa	55.00
36.	J. J. Castle, Inwood, Iowa	72.00
37.	Geo. H. Willsie, Prosper, Minn.	85.00
38.	Rude & Son	32.50
39.	Carey Cameron, Herman, Neb	45.00
40.	Rude & Son	32.50

Swan & Ellis-Sells Sale.

The Duroc Jersey sale of Swan & Ellis and N. W. Sells, Indianola, Iowa, brought out quite a good attendance, but those that came were mostly looking for the very tops. The fall boar, I Am C.'s Wonder, went to Fred Swan at $240 and his litter brother was purchased by Waltemeyer Bros., at $272.50. The former boar was the larger of the two and he will make a great boar, especially for those who are wanting size and smoothness. The Waltemeyer boar was the former of the two, a trifle smaller and better in some points and it was a toss up with them as to what hog they really wanted. However, either one of these boars will have a great outcome to them and they were cheap at the price paid for them. The Sells Crimson Wonder Again litter out of H. A.'s Queen averaged $141.80. There were a lot of other good boars in the sale, some of which were from the good herd of Swan & Ellis, and Mr. Sells also had some that did not bring what they were worth, because as we said above those that came were mostly looking for outstanding herd boar material. The sows, many of which were very excellent were not appreciated like they should have been, possibly because of the earliness of the season. The average on everything was something over $50. Cols. Kraschel, Allen and Putnam cried the sale. We herewith list those that sold for $25 and above:

1.	Fred Swan, Missouri Valley, Iowa	$240.00
2.	Waltemeyer Bros., Melbourne, Iowa	272.50
3.	Waltemeyer Bros.	67.50
4.	Waltemeyer Bros.	65.00
5.	G. W. Mead, Corydon, Iowa	64.00
6.	W. M. Bartholomew, Indianola, Iowa	30.00
8.	H. S. Allen, Russell, Iowa	40.00
9.	A. B. Dowden, Maryville, Mo.	45.00
9½.	Theo. Foss, Sterling, Neb.	25.00
11.	C. L. McLaughlin, Panora, Iowa	27.00
13.	C. L. McLaughlin	25.00
16.	J. B. Ashby, Audubon, Iowa	50.00
18.	John Tupper, Woodbine, Iowa	44.00
21.	W. M. Bartholomew	30.00
22.	Ike Story, Indianola, Iowa	27.00
23.	W. M. Bartholomew	30.00
24.	J. S. Snethen, Davis City, Iowa	25.00
25.	J. O. Grof, Tecumseh, Neb.	56.00
26.	P. W. Weberg, Denison, Iowa	35.00
29.	H. J. Luymes, Boyden, Iowa	50.00
30.	W. A. Scholes, Onawa Iowa	44.00
32.	Lewis Kreitzberg, Griswold, Iowa	25.00
38.	H. S. Allen	26.00
39.	O. S. Larson, Logan, Iowa	45.00
40.	W. M. Bartholomew	77.00
41.	A. G. Weghter, Sheldon, Iowa	35.00
45.	Chas Bloomer, Joy, Ill.	28.00
49.	S. A. Strahn, Prole, Iowa	38.00

Adams' Poland China Sale.

C. F. Adams, Owasa, Iowa, held his sale of big-type Poland Chinas as previously advertised in this paper. Several of the best sows in the sale were fine specimens of the best in big-type Polands and sold much below their value. Zock Kinne, Michigan, secured two excellent sows in Nos. 3 and 4 at $115.00 and $127.50 respectively, as did Frank Pemberton in No. 19 at $115.00. Mr. Adams entertained the crowd well and conducted the sale in his usual straight-forward, business manner. Cols. W. B. Duncan and W. H. Cooper did the selling in a highly satisfactory manner. A list of those selling above $40 is appended:

2.	Wm. McBride, Alden, Iowa	$ 40.00
3.	Zock Kinne, Three Oaks, Mich.	115.00
4.	Zock Kinne	127.50
5.	Wm McBride	57.50
6.	Ed Herring, Laporte City, Iowa	80.00
7.	Wm. McBride	75.00
8.	Wm McBride	50.00
9.	Wm. McBride	47.50
11.	D. R. Keefer, Mt. Carroll, Ill.	70.00
13.	Mr. Sager, Owasa, Iowa	40.00
15.	Chas. Jackson, Owasa, Iowa	47.00
18.	F. W. Trickey, Owasa, Iowa	62.50
19.	Frank T. Pemberton, Iowa Falls, Iowa	115.00

CORN HARVESTER with Binder Attachment cuts and throws in piles on harvester or windrow. Man and horse cuts and shocks equal with a corn Binder. Sold in every state. Price $20. W. H. Buxton, of Johnstown, O., writes: "The Harvester has proven all you claim for it; the Harvester saved me over $25 in labor last year's corn cutting. I cut over 500 shocks; will make 4 bushels corn to a shock." Testimonials and catalog free, showing pictures of harvester. Address
NEW PROCESS MFG. CO., SALINA, KANSAS

ADDITIONAL FIELD NOTES.

Storm Lake Silo at State Fair.

The Storm Lake Tub & Tank Company will make an interesting exhibit at the Iowa State Fair. It will include a full line of goods turned out by that concern, and in particular the Storm Lake silo with its hinged door, which is especially valuable. This door is air tight, easily and quickly detachable and has other good qualities. Be sure to see the exhibit or write to Storm Lake Tub & Tank Co., Storm Lake, Iowa.

The Bovee Furnace Announcement.

When a farmer buys a Bovee furnace he saves from $30 to $50 over the ordinary cost. More than that he secures a furnace that will burn any kind of fuel economically and at a saving which will in a few years pay for the entire cost of installation and still have a heater that will last for years. The manufacturers of the Bovee will be glad to give any required information. Write to them giving plan of building. Address Bovee Furnace Works, 204 Eighth St., Waterloo, Iowa. See advertisement on page 20.

SalTone at the Fair.

The SalTone exhibit of stock food and Hampshire hogs from the SalTone Stock Farm will be among the interesting sights at the Iowa State Fair. SalTone is a compound manufactured under the direct supervision of John E. Robbins who for thirty years has been a well-known and successful breeder of live stock. His hogs which made good winning at the International Live Stock Show, in Chicago, last December, are being shown at the fair this year to give Iowa farmers an idea of Mr. Robbins' success as a stockman, and also to show the excellency in live stock produced by SalTone. The John E. Robbins Company, Greensburg, Ind., distributors of SalTone, have a large advertisement on page 11 of this week's issue.

Canada Field Crops.

Advices from western Canada indicate that this year's crops are remarkable in both yield and quality. Up until a very recent date the natural possibilities of western Canada soil were an unknown quantity. The investigations of farmers together with the assistance of the Ontario Agricultural College have been successful in developing the agricultural resources of Canada until today they occupy a most important position in the producing world. A number of books presenting these facts and others have been published by the Canadian government and may be obtained by addressing a request to M. A. Thornton, Colonization Agent, Canadian Pacific Railway, Chicago, Ill., or either of the addresses named in the advertisement on page 16.

Free Trips to the Fair.

The Strong Electric Company, Des Moines, Iowa, who will have a very good exhibit on the state fair grounds, offer to pay the fare of all visitors to their exhibit who buy any time during this year. The only stipulation they ask is that the copy of the advertisement which appears on page 18 of this issue be brought to the exhibit. This company has taken this means of securing actually interested parties who are contemplating buying a lighting system. The Strong electric plant which will be shown at the fair has a great many good features and runs with little attention. The plant has been worked out for farm use and it is giving satisfaction everywhere it is installed. If you contemplate buying an electric lighting system this fall do not fail to see this system while at the fair and if you buy it will operate as a means of securing your fare free.

See the Kalamazoo.

At the Iowa State Fair will be found an exhibit of the Kalamazoo center shear cutter and silo fixtures. The sickle-edge knives of this cutter will handle alfalfa, cutting it one-eighth inch in length, making ideal feed for stock and poultry. See advertisement on page 13 of this issue.

Winton Seed Corn Rack.

This rack is claimed by the manufacturers to be the only rack suitable for use in connection with a seed tester. It will be exhibited at the Iowa State Fair. This is an excellent rack, and we would suggest that all our readers interested look up the exhibit. See advertisement on page 13 of this issue.

The One Minute Exhibit.

One of the most interesting exhibits to be seen at the Iowa State Fair will be the exhibit of the One Minute Manufacturing Company, Newton, Iowa, manufacturers of washing machines, grain graders, manure spreaders and others goods. The well-known Newton grain grader and cleaner will be shown in actual operation. Dirty grain will be cleaned, separated and graded. This machine separates oats from wheat, weeds from clover and grass seed. We would suggest that our readers who are interested in planting good seed on their high-priced land look up this exhibit. See advertisement on page 13 of this issue.

SHEEP

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - - LOGAN, IOWA

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FORTY GOOD

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK, BELMOND, IA.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. Have 45 choice bucks, ewes and lambs. Will make a first-class flock for some one to start with. Will sell in one lot or divide to suit purchasers. Address
EARL BLOOM - BRIDGEWATER, IOWA

SHROPSHIRE RAMS AND EWES

YEARLING, two-year-old and three-year-old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes at best breeding and quality. Willard Miller, R. 2, Anita, Iowa.

RAMS, LINCOLNS, Registered yearlings $25.00 B. F. Clark, Albia, Iowa.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 9, Miller & Northy, Morley, Iowa.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 13, S. F. Lockridge, Greencastle, Ind.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, R. W. Botts, Plymouth, Ill.
Oct. 21, C. J. C. Cold, Berlin, Iowa.
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16-17, C. A. Saunders, Mgr., South Omaha, Neb.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Aug. 29, George Leigh & Wm. George, Aurora, Ill.
Oct. 21, C. A. Tow, Norway, Iowa.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 24, J. B. Ashby, Audubon, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22. Woodlawn Farm, Sterling, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 1, J. R. Horswell, Estherville, Ia.
Oct. 15, Escher & Ryan, Irwin, Iowa.
Oct. 16, John Cash, Jr., Parnell, Iowa, sale at Williamsburg, Iowa.
Oct. 28, Combination Sale, Chicago, M. A. Judy, Mgr.
Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.

Percheron Horses.

Aug. 20, W.J.Cunningham, Pittsfield, Ill.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hagarty, (sale at Stanwood,) A. J. Glick, Mgr.

Poland China Swine.

Aug. 20, Williams Bros., Villisca, Ia.
Aug. 22, A. H. Windom, Nodaway, Iowa.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 16, Fred Sievers, Audubon, Iowa.
Sept. 25, Ring Bros. and A. G. Miller, Newton, Iowa.
Sept. 26, J. H. Cope, Carlisle, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 3, H F. Dunn, Clarinda, Iowa.
Oct. 4, Frank Ranier, Logan, Iowa.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, S. C. Wyckoff, Kellerton, Iowa.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 10, A. Kool, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Frank Pelzer, Marne, Iowa, sale at Atlantic, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Powers, Aurora, Neb.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 14, Frank Roberts, Dexter, Iowa.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 17, A. M. Joy, Herman, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Nov. 6, L. B. Williams & Sons, Villisca, Iowa, (sale at Sciola, Iowa.)
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 8, J. L. Naiman, Alexandria, Neb., at Hebron, Neb.
Nov. 18, John S. Barnard, Nelson, Neb.
Nov. 12, E. V. Waugh, Greeley Center, Neb.
Jan. 23, Thos. F. Miller, York, Neb.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb, 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 19. C. W. Phillips, New Sharon, Ia.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 26, J. W. Cartwright, Burlington, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 8, Wm. Reed, Rose Hill, Iowa.
Oct. 9, H. W. Lineweaver, So. English, Iowa.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, S. W. Stewart, Kennard, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 23, Barker Bros & Crowell, Riverton, Iowa.
Oct. 24, Day & Welsh, Hepburn, Iowa, sale at Villisca, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 29, Economy Stock Farm, Shenandoah, Iowa.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Keonig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, H. Wernimont, Ohiowa, Neb.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 3, A. C. Mills, Spencer, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Oct. 30, W. P. Doolittle, Woodland, Mo.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201 Washington Building, Madison, Wis.

FIELD NOTES.

The advertisement of Bert A. Randell, Mt. Zion, Iowa, offering Chester White boars and gilts and Shropshire rams for sale appears on page 26.

Chester White spring boars are advertised for sale by A. C. Orme, Nodaway, Iowa, on page 29. He is making specially low prices on these boars. Write him your wants right away, and kindly mention The Homestead.

On page 22 is the advertisement of B. F. Clark, Albia, Iowa, quoting prices on registered yearling Lincoln rams. Mr. Clark writes that he has ten very choice ones sired by a 350-pound ram and out of choice large ewes.

Davenport & Mack, breeders of Poland China hogs, Belmond, Iowa, announce on page 26 that they are now prepared to sell some extra good boar pigs. They are of big lines of breeding, thrifty and right every way. Write for prices.

Some very choice Red Polled heifers, bred to the champion bull, Ruperta's Goods, are advertised for sale by Frank J. Clouse, Clare, Iowa, on page 27. He also offers some good young bulls for sale. Write him about these right away or go and see them.

Seven head of good Duroc Jersey fall boars and thirty head of spring boars are advertised for sale by Henry E. Wegter, Sheldon, Iowa, on page 31. These go at from $25 to $40 while they last and if you want a good one send your order to him at once and kindly mention The Homstead when doing so.

Fifty choice Duroc Jersey boars are advertised for sale by Heiko Gruis, George, Iowa, on page 31. He is pricing these at $25 and $30 and they are cheap and good. If you order now you will be able to get one of the pick of the bunch. He has a corking good bunch of pigs and he will guarantee satisfaction. When writing Mr. Gruis kindly mention The Homestead.

A. L. Robison, Jr., of the well-known Percheron firm of A. L. Robison & Sons, Pekin, Ill., has arrived home from France with an importation of Percheron mares, all young ages, that were the best that could be found in France. Mr. Robison also brought over an outstanding young stallion for use in the Leslie Farm stud. The mares included in this importation will be offered to the public at the annual Leslie Farm sale in December.

Before the winter season begins every home should be equipped with a kitchen appliance which will make the women's work as pleasant as it is possible for that work to be. The best and strongest point in the equipment is a Monarch Malleable range such as is advertised on page 18. Read the arguments presented in favor of it and then if you want to take advantage of the special offer mentioned write at once to Malleable Range Co., 356 Lake St., Beaver Dam, Wis.

In an advertisement on page 31 F. Christensen offers for sale Duroc Jersey pigs of spring farrow and a number of sows bred for August and September litters. Mr. Christensen has a herd of nearly 300 head on his farm and is reserving all his spring gilts for his winter sale which promises to be one of unusual importance. Some of his brood sows weigh up to 750 pounds and all carry the best strain of blood. Address F. Christensen, Fairmont, Minn., and kindly mention The Homestead.

W. H. Hurd, Collins, Ohio, wants to get prices on Single Comb White and Brown Leghorn pullets. His advertisement appears on page 17.

John Krebs, Riverside, Iowa, is offering some big, smooth, heavy-boned Duroc Jersey boars for sale on page 31. He can please you at a very reasonable price.

Hugh M. Ficke, Long Grove, Iowa, can supply some extra good fall Duroc Jersey boars with size and quality. He also has some extra good spring pigs by some of the most noted boars of the breed.

G. F. Marshall, Monroe, Iowa, will be at the Iowa State Fair with a good lot of spring pigs sired by Giant King and Jumbo Giant. He has March pigs weighing 200 pounds and will be glad too see anyone interested when at the fair.

For high-grade Holsteins cows, well marked and due to freshen soon, write W. C. Kenyon & Son, Elgin, Ill., whose advertisement appears on page 15. They can furnish one or a car load. Kindly mention this paper when you write.

C. J. C. Cold, Berlin, Iowa, announces a dispersion sale of his Scotch and Scotch-topped Short-horns to take place at his farm on October 21st. Mr. Cold has sold his farm which necessitates closing out the cattle. Full particulars will appear in this paper in due time.

The Huber Peterson Mfg. Co., Cresco, Iowa, will make a complete exhibit of Cresco all-metal and portable corncrib at the Iowa State Fair of next week. These cribs are made in all sizes and widths. They afford perfect ventilation and protection from rats as well. If unable to see the exhibit write for particulars to Huber Peterson Mfg. Co., Cresco, Iowa.

G. W. Curtis, Winterset, Iowa, announces on page 15 that he is prepared to sell Holstein-Friesian cattle at very reasonable prices. He has two pure-bred bull calves, a few pure-bred cows and heifers and a number of high-grade cows and heifers. Most of the latter are due to be fresh this fall. For additional descriptions write to the address named.

M. S. Pratt, Frederika, Iowa, offers yearling Duroc Jersey boars sired by the International grand champion, Volunteer, and out of a daughter of Mc's Dream, the grand champion sow at the same show. He also has a yearling by Model Wonder and one by Proud Ohio Chief. Mr. Pratt has a fine lot of spring pigs of the very best breeding for sale. See page 31.

The Cushman motor has ably demonstrated its value on the binder. Now it appears that it is equally as worthy of use as a power for operating the corn binder on the ensilage cutter. See the advertisement of the Cushman people on page 8 of this paper and for additional facts that should be in the hands of every farmer write the Cushman Motor Works, 2029 N. St., Lincoln, Neb.

The Goodyear people make an important announcement concerning Goodyear tires on page 6 of this paper. Everyone who has had tire trouble will appreciate the fact that Goodyear No-Rim-Cut tires at the same price as others are rare bargains. Read the advertisement. For particulars, description and reasons for the reduced prices address the Goodyear Tire & Rubber Company, Akron, Ohio.

Jurgen Schmidt, Everly, Iowa, the well-known breeder of Duroc Jerseys reports 125 head of spring pigs and he ha ssome good ones. The most of these are sired by Col.'s Model, a son of Col. Grant, and out of a W. L. A.'s Choice Goods sow. This is a most excellent boar and he has done splendid service in the Schmidt herd. He will have some good boars to offer the trade a little later in the season.

Twenty big-type fall Poland China boars are offered for sale by E. W. Kreischer, Mt. Vernon, Iowa, one page 30. They are sired by the 1,060-pound boar, Mastodon Chief, (used so successfully in the W. W. Wheeler herd) and Tecumseh Prince. These boars are large, heavy-boned, smooth fellows and will please anyone wanting a good boar at a reasonable price. Write for price mentioning The Homestead.

The A. A. Berry Seed Company, Box 103, Clarinda, Iowa, advertises high-yielding winter wheat of the Kharkov variety on page 13. Some growers say that it has yielded from seventy to seventy-five bushels per acre, while the Kansas Agricultural State College reports forty-seven and one-half bushels as a three-year average, and the Nebraska Experiment Station 66.9 bushels. For prices or other information write to the address given above.

The popularity of Sal-Vet as a worm destroyer and conditioner is rapidly growing in all communities in which it is introduced. It is well understood by stock growers and especially by hogmen that if worms be destroyed there is 50 per cent more chance for thrifty and profitable growth and an added strength of vitality which protects the hog from the attacks of ordinary disease. Sal-Vet is advertised on page 32 The advertisement contains testimonials from a number of hog raisers who have given it a trial and whose evidence should be accepted as proof of its value. The manufacturers are offering to send this preparation on trial to any readers of this paper. The particulars are set forth in the advertisement. All that it is necessary to do is to fill out the coupon in the advertisement and forward it to the S. R. Feil Co., Dept. I H, Cleveland, Ohio.

The National Lead Company places an announcement on page 21 of this issue that is not only attractive, but a source of information as well. It tells just why Dutch Boy White Lead is the kind that preserves wood and extends the length of its attractiveness. A handy book on painting together with other information of value to the farmer may be obtained by writing the National Lead Company, Chicago, Ill.

Now that the harvest season is over farmers have time to turn their attention to the various means by which they may better their business and add to their incomes. The Flour City tractor advertised on page 13 presents an opportunity that will accomplish both these ends. An extensive exhibit of the Flour City in three sizes will be found at the coming Iowa State Fair. Other facts referring to it may be obtained by writing to Kinnard, Haynes Company, 857 44th Ave., Minneapolis, Minn.

In the fall most farmers give more or less attention to such buildings as may be needed on their farms. Buildings of the sort in question demand the use of lumber and other building materials such as are advertised on page 12 by the Peter J. Seippel Lumber Company. This firm produces lumber direct from the tree and by this manner of production is able to give the buyer the benefit of the reduced cost of making and handling. Read the advertisement carefully and before building write to Peter J. Seippel Lumber Co., 204 So. Locust St., Dubuque, Iowa.

Scotch Collie pups of strictly high-class breeding are offered for sale by Chas. Irvine, Ankeny, Iowa. They are by an important sire that was a reserve champion at the Chicago show and at a show at Columbus, Ohio. The dam was an imported animal that was a member of the exhibition lot of Scotch dogs shown at the various state fairs last year. She was the dam of three pups that were winners in a field trial in Scotland last year. These pups are of both sexes, six months old and will be sold at very low prices. A few Beadle hound pups are also for sale. Address Chas. Irvine, Ankeny, Iowa.

The Positive Tire Vulcanizer Company, Davenport, Iowa, are putting out a device for vulcanizing that shoulld be in the hands of every farmer owner of an automobile. The device acts upon the same principle as the big vulcanizers in tire factories, but it has been simplified so that any farmer may use it and do a perfect job. Most automobile owners have had experience which will convince them that an implement of this sort will pay for itself in a single season. Repairs of a tube or casing may be made in twenty minutes or even less. The device weighs but three pounds and it is sold at a remarkably low price. Further information may be secured by writing to the address given above.

Frank T. Pemberton, Iowa Falls, Iowa, claims October 10th as the date for a dispersion sale of his herds of Short-horn cattle, Percheron horses and Poland Chinas. Serious illness in his family necessitates his leaving the farm and dispersing his pure-bred live stock. The offering will consist of fifty Short-horns, forty of which are of the best Scotch breeding; eleven Percherons, seven of which are young mares safe in foal and fifty Poland Chinas which consist of fall boars and sows and a few spring boars. This sale will afford many bargains as does any sale where so much stock is to be sold in one day and for this reason everyone interested should keep this date in mind. Full particulars will appear in later issues of this journal. Send Mr. Pemberton a postal asking him to place your name on file for a catalog and when so doing kindly mention The Homestead.

John Justice, Ankeny, Iowa, is one of the breeders of Duroc Jersey hogs who always has something on hands of high quality, although he seldom makes much noise about it. This year he has better than 100 March and April pigs, all excepting one litter of which are by Cherry Boy, a hog of unusual conformation, good bone, up-standing legs and strong feet. Cherry Boy is by Chief's Model, he by Model Chief His dam was a daughter of Golden Chief, he by Golden Model and his second dam a Crimson Wonder bred sow. The blood lines and the crosses are those which have been productive of the greatest prize winners and most excellent breeding animals. The dams of the crop of pigs are largely of Model Chief and Crimson Wonder strains. They are good ones and they have produced a lot of pigs that cannot fail to prove satisfactory to discriminating buyers. A few weeks later announcements concerning these pigs will appear in our advertising columns.

Schug's Poland China Boars.

On page 26 of this week's issue we begin the advertisement of Robt. A. Schug, Coleridge, Neb., who is offering forty head of his large-type Poland China boars for sale. Mr. Schug formerly owned the grand champion boar, King Mastiff, and he has quite a few boars and sows by him and he is offering some of these for sale. He is also offering boars sired by Great Columbus, Nebraska Model and Model Goliath. Some of these boars are out of daughters of King Mastiff, and the dams of these are among the very best that Mr. Schug has in his herd. If you want a good boar you can certainly buy one of Mr. Schug and the time to do it is right now. Write him at once for price and description of these

boars and kindly mention The Homestead.

Herdsman Wanted.

A good herdsman who is a good feeder to prepare cattle for a sale is wanted by J. R. Horswell, Estherville, Iowa. Write him at once and mention The Homestead.

Rainler's Shropshires.

If any of our readers want a good Shorpshire ram they should write Frank Ranler, Logan, Iowa, who is offering thirty head of these for sale. He has an imported ram in the bunch that is one of the best in the country. He is pricing these at from $25 to $50. Write him at once and mention The Homestead.

French's Belgians at State Fair.

R. F. French, Independence, Iowa, will make an exhibit of high-class Belgians at the Iowa State Fair next week and the following week. He will have a string of stallions and mares that will look good to a horse judge. He will be pleased to meet all interested and show them his horses. See the advertisement on page 2).

Thompson's Durocs.

Will Thompson, Jesup, Iowa, offers ten fall Duroc Jersey boars for sale on page 31. These boars are sired by Victor 3d, a Golden Rule bred boar and are out of sows that trace to Prince of Cols., the noted sire of champions. These boars are large, smooth fellows and Mr. Thompson is pricing them right and guarantees them to please anyone who orders one by mail. Write him for prices mentioning The Homestead.

Some Fine Farm Buildings.

August Toepfer, Madison, Wis., a son of one of the prominent Holstein breeders of southern Wisconsin, has just completed one of the finest dairy barns of the state. The barn is 36x160 feet, with a concrete basement. The equipment is steel, and the floors are of concrete. It is well lighted on all sides, and in every respect is an ideal dairy barn. Mr. Toepfer has a small herd of pure-bred Holsteins which he is increasing rapidly.

King Gano 13311.

Those of our readers who want to see a great yearling boar should see King Gano 13311, the most sensational Duroc Jersey yearling of the year and the greatest living son of Col. Gano. He weighs 725 pounds, is smooth as an apple and a wonderful breeder. See him while you attend the Iowa State Fair and buy one of his sons. He is owned by that well-known breeder, O. E. Osborn, Weston, Iowa, who will show him at Des Moines. He will have some splendid spring boars by him at the fair.

Forty Duroc Boars for Sale.

With this week's issue we begin the advertisement of B. W. Hunt, Denison, Iowa, who is offering forty Duroc Jersey boars for sale. Among these is fifteen head of fall boars and the remainder are spring boars. These are sired by the 1,000-pound boar, C. H.'s Special, King The Col., Grand Chief, Gold Dust Prince and Model Advance. He is prepared and ready to ship these boars at any time and will be pleased to hear from Homestead readers who are on the market for a Duroc Jersey boar. When corresponding with him kindly mention The Homestead.

Fitch's Poland China Boars.

With this week's issue we begin the advertisement of John H. Fitch, Lake City, Iowa, who offers thirty-five head of big-type Poland China fall boars for sale. These are sired by the splendid boars, Giant King, Black Kruger and Jumbo Chief. These boars are bred in the strictly large-type lines and are out of sows that will weigh from 700 to 800 pounds. He also has some good spring boars. He is offering to sell these boars at from $25 up and if you send him an order now you will be sure to get a good one. When writing Mr. Fitch kindly mention The Homestead.

Fairbanks, Morse & Company at the Fairs.

Faibanks, Morse & Company will start out on their annual educational tour the week of the Iowa State Fair. They will show in addition to their regular display of farming implements a complete residence electric lighting plant, complete residence pneumatic water system, Fairbanks-Morse fresh water systems, portable engines, oil tractors, etc. The exhibits will be found at the Iowa State Fair, Nebraska State Fair, Ohio State Fair, Interstate Fair at Sioux City, Michigan State Fair and Illinois State Fair.

Justice's Turkey Red Wheat.

On page 13 John Justice advertises the fact that he has for sale quantities of Turkey Red wheat. In a letter ordering this advertisement Mr. Justice writes: "For about thirty years we have been growing winter wheat with but one failure, and for several years have been trying to encourage farmers in general to raise more of it in the place of oats, for it is less liable to fail. Last year was our bumper crop for winter wheat in this section, many pieces making fifty bushels per acre and better. And while it seems that this year we are taking a step backwards in the wheat yield, yet it is a much better paying crop than oats. Most wheat is making about the same number of bushels per acre as oats, twenty-five to forty bushels per acre. Our wheat is pure and clean, free from other grains or weed seed. Best grain sacks furnished free at $1.10 per bushel. Ask for free sample and try a patch this fall from our own grown Turkey Red seed. One who holds the highest record at the state and county shows. Meet us again at the Iowa State Fair this fall in the agricultural building and inspect our samples."

Sexsmith's Polands.

When you go to the Iowa State Fair make it a point to see Fred Sexsmith and his good pigs that he will have with him. He will have some of those good Big Orient boars with him and the man that is going to want a real herd header will like them. He will be at the fair and he will have the glad hand out for all the boys when they come around.

Holstein Cows and Heifers.

Sixty-five head of registered Holstein-Friesian cows and heifers are advertised for sale by the Rock Brook Stock Farm, Station B., Omaha, Neb., on page 15. These are nearly all due to calve in the fall to Sir Pontiac Ragapple Korndyke, or a son of King of The Pontiacs. Special prices are being made on these cows and heifers for the next sixty days. They also have a few serviceable bulls for sale. Write about these at once and kindly mention The Homestead.

Handlon's Chester Whites.

L. I. Handlon, Farmington, Iowa, is advertising fall boars, winter and spring pigs of both sexes for sale at reasonable prices, on page 28. Mr. Hanlon has the best bunch of pigs he has ever raised; his herd is headed by St. Patrick, a great yearling boar bred by Wm. Hoover. Mr. Hanlon would price this boar to someone wanting a high-class herd header. The boars he is offering are good in the back, head and feet and well quartered. His boars are of fall farrow as well as some January boars and gilts and March and April springs pigs

Cyrus A. Tow's Herefords.

Cyrus A. Tow, Norway, Iowa, is a gentleman who is widely known as a breeder and exhibitor of Hereford cattle and more particularly of the Disturber family. Since the purchase of Disturber and much of his progeny Mr. Tow has been extraordinarily successful in the leading show yards of America and a demand for his stock has come from every state where beef cattle are raised. Mr. Tow will have a full herd out on the circuit this fall starting at Des Moines and ending at the International Stock Show. His show herd is in fine condition and he will have strong contenders for the leading prizes in each class. He will show a herd of pure-bred steers and a herd of grade steers. The grade steers are an ocular demonstration of the value of pure-bred bulls in the production of prime steers. On October 21st Mr. Tow will sell at auction sixty-five Herefords, consisting of twenty-five bulls and the balance cows and heifers. Full particulars of this event will appear in later issues of this journal.

Sam Stewart's Durocs.

For those Duroc Jersey breeders who are going to want something good this fall we will say see the herd of Sam Stewart & Sons at the Nebraska State Fair and take a look at the many good things they will show you. They had intended showing at Des Moines, but have changed their mind and will meet the boys at Lincoln. The Stewarts have bred some splendid Durocs and some of the greatest boars that have been used at the head of some of the best herds in Iowa and Nebraska were bred by this firm. One of the best boars that the Waltemeyer Bros. have had in recent years was the hog they purchased at the Iowa State Fair from Mr. Stewart last fall and by far the best boar that Oran Stevens ever owned was a full brother to the Waltemeyer hog. Sam also bred to a dam of Jack Ashby's 1,055-pound boar, Colonel Sensation, and they have bred many others that are in the same class. Make it a point to see the Stewart herd when you go to the Nebraska State Fair. They will make a public sale on October 14th when they will offer a grand good lot of boars of the strictly herd-heading kind.

Affairs at Pioneer Stud Farm.

John G. Truman, of the Pioneer Stud Farm, Bushnell, Ill., writes: "We had a very pleasant visit from our old customers, E. L. McClurkin & Son, Louisa county, Iowa. These gentlemen were looking for the very best Shire and Percheron stallions that they could find and were looking especially for grays. We sold them a dapple gray imported Shire stallion and a dapple gray imported Percheron stallion. Both of these horses have weighed while in our possession over 2,200 pounds each. Another of our old customers from Louisa county, Iowa, C. A. Blanchard, was on the lookout for the best young Percheron stallion that he could procure and he finally selected one of our very best colts that we were exhibiting at the Iowa State Fair. Mr. Blanchard has a stud of pure-bred Shire mares and is an old and valued customer of ours. To Dan Jordan and Arthur Blackburn, Marshall county, Iowa, we have sold a pair of imported Shire mares. We have also sold to Samuel Insull for his Hawthorn Farm, a yearling Percheron filly sired by Intitule, which horse stands at the head of the Hawthorn Farm Percheron Stud. This filly is one of the grandest animals it has been my pleasure to see. Plenty of weight and backed up by more quality than I ever saw on a yearling Percheron filly. She has been greatly admired by a number of Percheron breeders who have seen her. We also sold the same gentleman the imported Percheron mare, Ironie, a beautiful drak dapple gray mare, weighing considerably over a ton and only recently imported. She is extraordinary wide and deep, beautiful head and neck, set on oblique shoulders; good back and strong loin, standing on the very best of feet and joints. We predict a great future for this mare and we hope to have the pleasure of seeing her in the Hawthorn Farm exhibit at the Illinois State Fair and International this year. These two grand animals will greatly strengthen the Percheron stud at Hawthorn Farm."

A Fine Jersey Bull.

The Jersey herd of Otto Walters, Waupun, Wis., is headed by the imported bull, Swift of Oaklands 88009, a son of Nobles of Oakland who sold at the Cooper sale for $15,000. Mr. Walters' herd is practically all of the St. Lambert strain.

Choice Fall Boars.

On page 31 G. C. Everts, Audubon, Iowa, advertises twenty head of excellent Duroc Jersey fall boars for sale sired by Golden Model 3d and the low price of $25 to $50 takes them while they last. He also has fifty head of good spring boars and he is booking orders for these at from $25 to $35. If you want a good boar at a reasonable price send your order to Mr. Everts at once and kindly mention The Homestead.

Adams' Big-Type Polands.

C. F. Adams, Owasa, Iowa, is making special prices on boars and gilts of spring farrow, for the next thirty days. He has a grand lot of them sired by Mammoth Jumbo, by Big Jumbo, Maid's Halver 1st, a son of Big Halver and Long Maid, Adams' Big Hal and Long Columbia. These pigs are out of a herd of sows that are hard to equal for size, smoothness and heavy bone. A representative of this paper recently looked over these pigs and he has seen no growthier, or healthier pigs this season. We know that anyone who will send Mr. Adams an order for one of these pigs will be well pleased, and the better judge he may happen to be the better he will be pleased. Mr. Adams has the goods when it comes to big-type Polands. It is worth while for any of our readers who can to visit his farm and look over his herd. If you want to buy a good boar look up his advertisement on page 30, write him for prices, and send him your order.

Davidson and His Crimson Wonders.

Our old friend, U. G. Davidson, is now located at Algona, Iowa, where he still persists in raising a few of his favorite Duroc Jerseys and he still clings to much of his famous old Crimson Wonder blood. He has Golden Model at the head of the herd, who in turn is a descendant on the dam side from a Crimson Wonder sow. His other boar is Crimson Wonder Am I, and he is a son of Crimson Wonder I Am. He is an intensely bred Crimson Wonder boar and he is siring him some good pigs. In fact, both of these boars are doing well for him. He has nine fall boars on hand that are sired by Golden Model Jr., out of Crimson Wonder I Am dams, and he has some that are going to make good herd boars. He also has twenty spring boars that are sired by Golden Model Jr. and Crimson Wonder Am I. You cannot lose Grant Davidson in the Duroc Jersey shuffle and he has bred as many right good ones as the best of them. He will be pleased to hear from Homestead readers at any time or would like to have them call and see him.

Horswell Disperses Angus.

On October 1st, at his farm near Estherville, Iowa, J. R. Horswell will make a dispersion sale of his well-known Aberdeen Angus herd, comprising in all about eighty or ninety head of cattle. There are many good things in his sale, including a splendid lot of Blackbird, Trojan Erica and K. Pride cows and his splendid herd bull, Black Ensign. This bull is a four year old and is a son of the noted Black Woodlawn. His dam is Ellore by the great bull, Western Star. His second dam was a daughter of Esmond of Ballendalloch and he was a son of the noted bull, Iliad. He is a Blackbird-topped Trojan Erica, a splendid individual and just such a bull as most of our breeders should have at the head of their herd. This bull was a prize winner at both the Iowa State Fair and the International without any special feeding. It is, we presume, the last chance that breeders will ever get to buy as good a son of the mighty Black Woodlawn as this bull is and we hope that Angus breeders will not make the mistake to overlook this bull when sale time comes around. We will tell you more about the Horswell offering in later issues of The Homestead. In the meantime write him for catalog and kindly mention this paper.

Good Horses at State Fair.

At the coming Iowa State Fair C. G. Good, importer and breeder of Belgian and Percheron horses will make an extensive exhibit of animals of those breeds. Some of them are from the importation made this summer and of a necessity they will be somewhat thin in flesh although they are right in quality and breed characteristics. Some of them are very large. A three-year-old stallion will go into the ring at 2,100 pounds. He has wonderful bone and promises when fleshed up to develop into a remarkable animal. There will be two year olds, three year olds, and four year olds, both stallions and mares. The colts in particular are a choice lot, among them some good enough to go into any company. An illustration on another page show three of the good stallions from the late importation. Mr. Good makes a special invitation to all readers of this paper to visit his stalls at the Iowa State Fair and inspect his horses. Of course, while he wants to sell he is more particular just at the present time in having people visit him and see the character of the stock of which his importations are composed. He will also be glad to entertain visitors at his home farm at any time. He is located at Ogden, Iowa, on the main line of the Chicago, Northwestern Railway and on the Minneapolis and St Louis Railway, with excellent facilities for getting in and out without loss of time from any direction. Address inquiries to C. G. Good, Ogden, Iowa.

Eugene Haws' Shropshires.

With this issue of The Homestead, Eugene Haws, Charleston, Neb., is starting an advertisement in which he offers a number of Shropshire rams and a few ewes. Mr. Haws is pretty well known to Home tead readers and those that have purchased breeding stock of him in the past are the best reference that he has, but we wish to add that the stock that he has for sale is of such high quality and of such breeding that they are bound to please those looking for the real good stuff, and the prices are as low as one can afford to grow them. We have come in contact with this strain of stock in different hands and in all cases giving the best satisfaction. An order placed immediately will be a good business move, and when writing Mr. Haws, kindly mention The Homestead.

L. B. Williams' Polands.

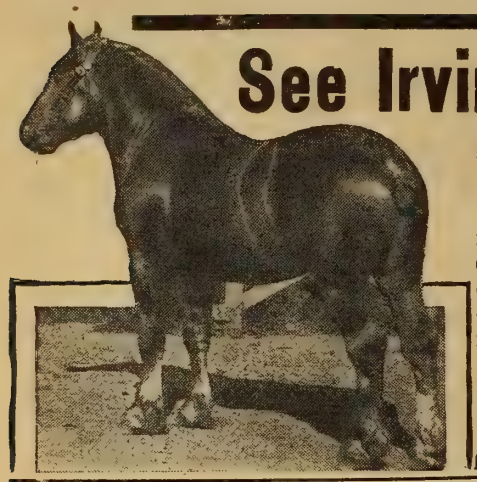
On November 6th, L. B. Williams & Sons, Villisca, Iowa, will make a public sale of forty head of their large-type Poland Chinas, and they will have a far better offering than they put up last year. They will make the sale at Sciola, Iowa, their nearby town on the Atlantic Northern & Southern railroad, unless they should change their minds before that time. They have a splendid crop of big, stretchy spring pigs—ninety head in all—and they have great size and length this year. In fact, they are far ahead of their pigs at this time last season, and if everything goes right they expect to sell the best bunch they have ever offered. They have twenty-three head of fall boars and sows and five summer sows that they expect to put into this sale. These are sired by W.'s Quality, a son of the great Blue Valley Quality; Orphan Wonder, a son of The Big Orphan; Big Tom Jr., a son of the prize-winning boar, Big Tom, and a few by New Tecumseh and Big Orient. We will tell you more about their offering later in the season.

Calkins' Duroc Jerseys.

One of the younger, but well-bred Duroc Jersey herds in northern Iowa, is owned by E. A. Calkins, Ruthven, and while his crop is not large this season, he nevertheless has some good ones. He has for herd boars, Prince The Col., a son of old Prince of Cols. and out of a dam by Shafer's Col. He is a line bred Prince of Cols. boar and a very good one. He has plenty of stretch, a good back and good bone and he is siring him a good lot of pigs. His other boar is Wonderful Crimson Lad, a grandson of the champion Crimson Wonder Again. He has pigs by both of these boars, also by Freed's Col., Model Advancer, Dusty Wonder and some fall boars by the noted boar, Volunteer and Royal Col. Mr. Calkins has collected a splendid assortment of brood sows, among which are daughters of Prince of Cols., Shafer's Col., Superba, Chief's Col., B. & C.'s Col., King The Col., Crimson Wonder Again and Model Advancer. Three of his fall boars are sired by the noted boar, Volunteer, and are out of a Superba dam, and four are sired by Royal Col. and are out of a Freed's Col. dam. He will be pleased to hear from his farmer and breeder friends at any time, and will quote them prices on either spring or fall boars. When you write him kindly mention The Homestead.

Irvine's Belgians at State Fair.

One of the greatest horse exhibitions at a great horse show will be that put up by Chas. Irvine, Ankeny, Iowa, at the coming Iowa State Fair. It will include forty head of big Belgian and Percheron stallions and mares. In particular the Belgian consignment is one of unusual interest and importance. It includes Frison, Falcon 2d and Mon So Hoit, three stallions which Mr. Irvine imported particularly for use on his own farm. Others possessing perhaps as much merit will be presented and offered for sale. Frison is a beautiful sorrel two year old that won medals in Belgium before having been imported. He has promise of development into a massive fellow with all the bone necessary to carry heavy weight and general excellence of draft character. Falcon 2d is also a sorrel two year old, a little more flashy in color, a good mover with heavy bone, good quality of feet with promise of size and at the same time carrying the popular American type. Mon So Hoit is also a two year old and a sorrel, a little lower in type with wide clean bone, extra good feet and an impressive character that cannot fail to strike the lover of good horses as being about right. The entire consignment, however, carries size and weight with ruggedness and evidence of maturing into just what buyers are now demanding. Robert 2d De Rum that has for five years occupied a leading place on this farm and each year been a prize winner at the Iowa State Fair, will now be offered for sale. He is of the right type and will weigh 2,200 pounds, being sound in every respect. There will be younger stallions down to suckling colts, all of which show extra quality, having show-yard type and general attractiveness. Among the Percherons will be a two-year-old stallion that has every evidence of development into a 2,400-pound matured form. He is a dark gray, clean boned and at present a little thin in flesh. The mares of which there will be about twenty head will fill all classes. Some of them are weighing up to 2,150 pounds in their three-year-old form while the two year olds will tip the scales at 1,800. We might go into further details with respect to this show lot and still re-



See Irvinedale Horse Show at Iowa State Fair

40—Belgians and Percherons—40

I will make a complete show of imported and home-bred Belgian and Percheron stallions and mares, from mature animals to sucking colts. Prize winners at Chicago, Des Moines and Sioux City, and holders of medals won in Belgium. Stallions with established breeding records. Mares of proven producing capacity. Colts with wonderful promise. They have size, bone, draftiness, and true breed type and character. They are not fleshed up, but are thrifty and coming. Every one carries a veterinarian's certificate of health and soundness. High quality and low prices rule in my barns. Come and see them. An automobile will be at the barn ready to take you to Irvinedale Farm if you want to go.

Chas. Irvine, IRVINEDALE FARM, Ankeny, Ia.

main within the limits of what could truthfully be said, however, we want every reader of this paper who attends the Iowa State Fair to visit Mr. Irvine's barns and make a personal inspection. The horses are right and they will be sold right.

Weberg's Bred Sows and Boars.

On page 31 will be found the advertisement of P. O. Weberg, Denison, Iowa, who is offering thirty choice Duroc Jersey boars for sale and ten head of good sows bred for fall litters. At the head of the Weberg herd stands two great boars, Crimson Wonder 3d, the grand champion boars at Nebraska and Illinois State Fairs and he is offering sows bred to this noted hog. He also has some splendid spring boars sired by him and these are strictly all right. He is offering these at prices that are strictly right for the man that is in need of a boar that will be a credit to head his herd. He also offers some good sows bred to C. H.'s Special. This is the boar that weighed about 1,000 pounds when he was shown at Des Moines and is one of the best breeding boars today in the West. Mr. Weberg also offers some splendid fall boars sired by C. H.'s Special and among these are some boars that will look good at the head of any herd. He also has some boars by Crimson Wonder Again. Write Mr. Weberg about these boars and kindly mention The Homestead when corresponding with him.

Porter's Duroc Jerseys.

A representative of this paper last week visited the farm of J. C. Porter, Ogden, Iowa, and found that gentleman with his usual number of growthy, thrifty Duroc Jersey hogs. He does not aim to raise more than seventy-five pigs, but he does plan to raise them right and nearly always succeeds in doing so. This season's crop is by R. J.'s Chief and King Gayno. R. J.'s Chief is a Harding bred hog by Belles Chief I Am, he by Ohio Chief and his dam was a daughter of Harding's King of Cols. The blood lines involved are good and they have shown a marked effect on the pigs on the farm. King Gaynor is by Col. Gaynor, dam by Claremont's Model and back of that are blood lines of the right sort. Mr. Porter has not aimed to produce a wide range of strain, but has confined his operations to those which have been productive of best results. He has Crimson Wonders and Model Chiefs as his main strains, with a few sows carrying the blood of High Col. and Choice Goods. He has on hand a number of fall gilts and three fall boars by R. J.'s Chief and out of Crimson Wonder dams. These are all thrifty, growthy and of good form. They will be sold at fair prices.

Windom's Poland China Sale.

The Poland China sale of Alvin Windom, Nodaway, Iowa, on August 22d, is full of good things both in the way of boars and sows and it will be made up of an unusually large number that are good as he has ever put through a sale ring. This is especially true of the grand good bunch of sows he is selling in this sale and it is also true of the fall boars that he is listing for this occasion. We are willing to stake our reputation that he is offering some of the best fall boars that will be driven through a sale ring this fall and the beauty of this is that they are nearly all sired by his great boar, Pawnee Nelson. We made special mention of several of the best of these boars last week and we will again say that there are several of these boars in the sale that will weigh 400 pounds, and they are good enough to head any of the best herds in the country and we do not care who owns them. This is saying a great deal for his bunch of boars, but Windom has the goods to show you and if you are on the market for a large-type Poland China boar, one that has the size and the quality to go with it, then you will necessarily be interested in this sale. Then he has a number of very choice spring boars, and some of these are sired by Pawnee Nelson and Progression, the latter being the large Expansion-bred boar that he has been using in the herd. Mr. Windom has selected thirteen head of the best sows in his herd for this sale and he has bred them to Pawnee Nelson for fall litters. Any sow that he is listing for this sale is good enough to go into any of the best herds and the fact that they are bred to Pawnee Nelson for fall farrow is in itself sufficient to show that they will be money-makers for any breeder who will buy one. He is listing some of the best fall and yearling sows he has ever owned sired by Pawnee Nelson and these are bred to his great young boar, Windom's A Wonder. The latter boar is going to be one of the largest sons of old A Wonder and Mr. Windom is growing him out with the expectation of making him one of the largest Poland China boars in southern Iowa. The Windom sale is one where we know there will be some great bargains. He is not a man that says very much, but he does breed hogs and he has some of the best that can be found anywhere. It will be one of the very best sales that we know of where we think breeders will get bargains and the man that wants a boar or a sow will unquestionably find as many choice bargains in his sale as any that they will attend this fall. Write for his catalog at once and be sure to attend the sale. If you cannot do that M. T. White will be there in the interest of The Homestead and will care for any bids you may send him.

Thompkins Wright, Holstein Breeder.

Thompkins Wright, Waupun, Wis., is one of the most successful breeders of Holsteins in the state of Wisconsin. He has developed some wonderful cows and the size, conformation and well-developed milk organs of his whole herd show a careful selection from good foundation stock. In the Wisconsin cow competition Mr. Wright won the first prize for December, 1909, with Leland Maid; February, 1910, with Leland Sunbeam; February, 1911, with Lady Oak Homestead Ormby. He was also awarded fourth place in the class for highest production of butter fat by ten cows in any one herd for one year. His herd bull, Johanna Bonheur 2d Segis, is a very large animal, showing great capacity. Mr. Wright's farm is located two miles south of the city, where he is glad to show his pets, as he calls them, to any one interested. From time to time he has for sale some young animals from this herd.

Tutt's Chester White Boars.

In a recent letter from G. H. Tutt, Marathon, Iowa, the well-known Chester White breeders, he says: "A few lines to you in regard to my stock. It is growing like weeds. I never have had a better lot to offer. My spring boars, many of them have size enough to weigh up to 200 pounds now, and for quality, say, that is outstanding on them. These boars are hard to fault and I am sure will please the most critical buyer. They are worthy of heading some good herd to which some of them have already gone. If any of The Homestead readers are in need of a good herd boar, something they can feel proud of and not afraid to show to their neighbors, with the best of breeding behind it, I will be glad to show them or give an accurate description of them to any of the boys." Write Mr. Tutt about these boars and send him an order and get in on the ground floor before the best are gone.

Otto R. Bellows' Duroc Herd.

One of the good herds of Durocs, especially among the newer ones is the herd owned by Otto R. Bellows, Fairmont, Neb. Mr. Bellows is a gentleman that has had the advantage of a splendid farm training as well as a liberal education in the better universities of the state, and has engaged in the Duroc business because he likes the business, feels that he will be doing the live stock industry a bit of good by his efforts, and also because he believes that he can make more money with the very best than with the ordinary sort. With this end in view he has purchased of the very best herds, such of the tops as they would sell, and the careful selection have demonstrated that they were the right sort. A son of Crimson Wonder Again is doing good service in the herd. A few litters are by the old boar, Model Prince, but they are a little late and do not show up quite as well as the other stock just at present. A litter by Model Chief 8th and out of Lady Russell by Crimson Wonder Again is very good and look as though they would make exceptionally valuable stuff. Also the litter out of the famous sow, Missouri Lady by Valley Chief and sired by Crimson Wonder Again look as though they would make good stuff to tie to. F. H. Allen, Tobias, Neb., has a fall litter of this very mating that are among the toppers of the season. They will be at the Nebraska State Fair. A few herd sows are by Wonder Boy by Lincoln Wonder. Miss Bob 2d and Lady Bob from the Kirkpatrick herd have done well in the herd. They are out of Miss Bob which was the dam of Miss Bob's Lady, a sow that in four years produced $4,000 worth of stock for J. S. Beem, formerly of Bethany, Neb. Mr. Bellows has a nice lot of boars that he will now sell. They are of such breeding that anyone can use them, and individually they are of a high order, although they have not been specially fitted. The writer has great faith in this stock, as we know their past record, and have every reason to believe that they will make good. Kindly notice the advertisement on this page and when you write mention The Homestead.

Sheridan's Chester Whites.

The other day we called on P. H. Sheridan, Vail, Iowa, and found he had 125 spring pigs, the most of which are sired by All Right, his splendid old herd boar that he has been using for several years. Others are sired by Silver Boy, a son of Lewis E., and some others by Honest Boy and Monarch. A great many of these are out of immune sows, his herd having gone through the cholera last year. Mr. Sheridan will be at Des Moines with some good boars and a good sow or two and he will be pleased to have the boys look him up at the show. If you are going to be in the market for a Chester White boar this fall see him when you go to the fair. He also has quite a bunch of fall boars on hand and he can fill your order for anything you may need in the boar line.

Chas. A. Slepicka's Chester Whites and Short-horns.

The writer recently called on the well-known stockman, Chas. A. Slepicka, Tobias, Neb., and we wish to report that we found some very fine stock on this farm. The Chester White herd came into prominence a couple of years ago when the great boar, Plainview Choice, was the champion boar of a number of the western hog shows. This boar is surely one of the real good ones of the breed at present. He is not only a show boar with a great reputation, but he is also a sire of the very highest order. Last year Mr. Slepicka lost nearly the entire spring crop with the bad weather and for that reason there was very little stuff offered last season that was the get of Plainview Choice. This year there will be only a limited number for the reason that Mr. Slepicka kept only a few sows. These are very choice, however, as good as we have seen to date, and as Mr. Slepicka is anxious to turn them soon, he will name prices that make them real bargains. The writer watched the development of this class of stuff, and we have paid particular attention to the get of sons of Plainview Choice and we must say that in every case they have made good. A fall boar by Plainview Choice and out of Nancy by Wonder is one of the good propositions of the season that we have seen. He is just a few days too old to show as a senior pig, otherwise he would undoubtedly make a strong competition in that class this season. This boar is for sale and we do not hesitate to recommend him. He is mightly big and smooth, and is a typical Plainview Choice boar. Wonder was the first-prize boar at the Iowa State Fair, 1911. There are also some spring boars of the same blood lines and they are really headers for the good herds of the country. These boars can be bought worth the money, and to hesitate is to lose a good thing. The Short-horn herd is headed by the good young bull, Diamond Digger by the champion Diamond Goods. This is a very fine bull of the Queen of Beauty family, and he is showing up some of the best calves we have seen this season. Last spring Mr. Slepicka made a sale of Short-horns, retaining about a dozen of his very best cows. These calves are from them, and they are, and should certain-

TOO LATE TO CLASSIFY.

KING GANO 13311

Weight 725 lbs. at 17 months

The most sensational yearling of the year and the greatest living son of Col. Gano. Be sure to see him at the Iowa State Fair and buy one of his sons.

O. E. OSBORN - WESTON, IOWA

SCHUG'S BIG-TYPE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address
ROBT. A. SCHUG, COLERIDGE, NEB.

EARLY BUYERS SAVE MONEY

and get the best horses. Buy BIG PERCHERONS now from my big bunch of registered studs 2 and 3 yrs. old, yearlings and suckers, at breeders' prices.
FRED CHANDLER
Chariton, Route 7, Iowa

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

COACH STALLION

FOR SALE—Dark chestnut, wt. 1400, age 7, sound, sire, imported German coach, Dam, standard bred mare, making him a full blooded cross. He is the best coach horse in this county. Price $500.00.
AMOS HANSON - - COLLINS, IOWA

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.
JOHN H. FITCH - - - LAKE CITY, IA

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - FAIRMONT, NEB.

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 176495.
DAVENPORT & MACK, BELMOND, IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

DAIRY CATTLE SALE SEPTEMBER 3, 1913

AT Nodaway, Iowa—50 Jersey and Guernsey cows and heifers. Send for circulars giving full descriptions. Col. Wm. H. Piper, dairy cattle auctioneer.
C. E. BONTRAGER - - NODAWAY, IA.

PLAINVIEW CHOICE BOARS

CHESTER White fall and spring boars by the great Plainview Choice. Also some Short-horn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

CHESTER Whites and Shropshire bucks. Boars ready for service, and sows, gilts and spring pigs. Write Bert A. Randell, Mt. Zion, Ia.

Imported Herefords at Public Sale

Two-year-old bull, Farmer, an English champion, included in the sale.

Aurora, Ill., Friday, Aug. 29

50 Head---16 Bulls

THESE cattle were selected by one of the best judges in England, and come from the leading herds of that country. There are 20 bred cows, 2 to 5 years old; 16 bulls, including the sensational Farmer, 28 months old, considered by competent authorities the best Hereford bull ever imported to this country; 12 yearling bulls of size, substance and conformation and some extra good bull calves. This is the first lot of imported Hereford cattle that has been offered to the public in over a decade, and every Hereford breeder and admirer should give the sale hearty support. Write today for catalog, mentioning The Homestead, to

Cols. Carey M. Jones and Fred Reppert, Auctioneers.

Geo. Leigh or Wm. George, AURORA, ILLINOIS

ly be good ones. These young bulls will be offered at any time from now on. If interested in this good stuff, write Mr. Slepicka and mention The Homestead.

Fargo Farm.

E. J. Fargo, Lake Mills, Wis., has one of the largest and one of the best selected herds of Holstein-Friesian cattle in this vicinity. His herd now numbers nearly ninety-five head of pure-bred cattle and it is an interesting sight to see them in the pasture. Mr. Fargo is devoting more attention than ever to his herd of beauties and the way they respond to this care and attention is evidence enough that breed coupled with feed will produce the records which make it a pleasure to be in the pure-bred game. Although Fargo Farm is exceptionally well equipped with buildings, yet with the expected increase in the near future it will be greatly crowded for room. The barns are equipped with a vacuum cleaner for cleaning horses and cattle and for keeping the barn free from dust and cob webs. The farm is scarcely half a mile from the city and is completely furnished with electric lights and motors, making it an ideal place to care for cattle.

Waltmeyer's Durocs.

Waltmeyer Bros., Melbourne, Iowa, will as usual have a high-class lot of Duroc Jerseys at the Iowa State Fair. These gentlemen have been consistent winners at the leading state fairs for several years and after looking over their show herd we believe this year will be no exception. They have bred nearly all of their winners in the past and this year every animal they will show will be of their own breeding. It is the work of a master hand to so mate animals and feed and develop them good enough to win in competition with the best in the land and these brothers have been doing this repeatedly. Good judgment and a persistent effort to reach the top in their chosen vocation accounts for their phenominal success. We are not going to mention any particular animals they will show, but suffice to say that in every class they will have strong contestants for high honors and they will have strong candidates for championship ribbons. Duroc breeders in general will find much of interest in their exhibits and this firm will be glad to show their hogs to anyone interested. On September 20th they will sell about forty boars at public auction, largely of the same breeding as their winning show herds.

The Big Ridge Hog Farm.

At Dexter, Iowa, a young man has taken up the business of breeding pure-bred Poland China hogs in a business like manner. He has selected an excellent farm of small proportions which is particularly adapted to the business. He will devote his entire attention to the feeding and care of his hogs and permit other farmers to raise the feed. Frank Roberts, the young man in question, has started out with excellent judgment. He has now at the head of his herd two excellent hogs, Giant Jones and Pawnee Wonder. Giant Jones is a big fellow, strong of bone with symmetrical conformation and other qualities that are appreciated by those who know Poland Chinas. His sire was the Wigstone hog, Big Jones 3d, and his dam Hunt's Giantess, an animal that not only proved herself a rare producer, but also made an enviable record in the show ring. Pawnee Wonder was a son of Fesenmeyer's A Wonder, his dam Giant Adair tracing to Rude's Giantess. During the past season in order to establish his herd along popular lines Mr. Roberts bought a number of sows from representative herds each of which produced a litter. He has one litter by the champion Columbus, one by Big Black Jumbo, one by Gerstdale Wonder, two by A Wonder, two by Big Joe, one by Big Orange, three by King Wonder and one by Smooth Price. There are also a number by his herd boars first mentioned. Most of these pigs are of March and April farrow. The brood sows are of popular lines of breeding, being daughters of A Wonder, Big Joe and other good strains. Mr. Roberts made a sale last winter which averaged right at $50 per head and the popularity of the blood lines which have been added since that time lead to the expectation that he will have fully as good a sale when he makes his next offering. Mr. Roberts' fall sale will take place October 14th, but additional information will be given concerning it in later issues of this paper.

Hurless' Chester Whites.

Harry Hurless, Ogden, Iowa, breeds Chester White hogs. A representative of this paper looked over his herd last week. He found it in splendid condition and it contains an excellent lot of pigs of very uniform size and general excellent quality. They are mostly March and April pigs, the get of Onward 2d, White Wonder and Mahaska Boy. Onward 2d was by Wildwood Prince, he by Onward. His dam was a Vaughn hog. White Wonder was by Crescent, dam a Crystal Beauty by White Oak 2d. This is a bog with an extra good back, a splendid head and ears and good quality throughout. Mahaska Boy is by Grand Leader and his dam was Fancy Girl. He carries a line of prize-winning blood that has been prominent at most state fairs. The brood sows that produced the present crop of pigs are by Mahaska Boy, Grand Model, Wildwood Prince, Eclipse, Iowa Chief, Iowa Harvey and Chief Combination. It will be realized from this enumeration that the strains of blood involved in this herd have come from the best breeding herds in the land. There are eighty-four spring pigs. They are not fat, but are in the most thrifty and growthy form. They carry wonderfully good length, strong backs, good feet and legs and considerable style and quality. There is every evidence that these pigs will grow into animals that will be a credit to the breed. Mr. Hurless offers pigs for sale and guarantees satisfaction. Throughout his entire sale season of last year while he sold a great number of pigs he had but a single dissatisfied customer. This is an enviable record. For prices and descriptions write to Harry Hurless, Ogden, Iowa.

Sale of Imported Hereford Cattle.

The live stock world in general and the Hereford fraternity in particular should be widely interested in the offering of imported Hereford cattle to be made at Aurora, Ill., Friday, August 29th, by George Leigh and William George. As has already been stated in these columns these cattle were carefully selected by one of the best judges in England from the leading herds in that country and were bought on an order sent over by Mr. Leigh and Mr. George, whose instructions were to select the best cattle that could be found, with expense as a secondary matter. These gentlemen, from their years of experience in the cattle business, realized that the time was ripe for an infusion of fresh blood into the herds of this country and their enterprise in this matter should certainly be appreciated by the American buyers. Among the fifty head of cattle they will offer will be found some of the best things that have been offered to the buyers of this country in a great many years. Sixteen bulls are listed, headed by the twenty-eight-months-old Farmer, a champion at some of the best England shows and without doubt one of the greatest bulls that the breed has ever produced. There are fifteen young bulls, from calves up to long yearlings, with plenty of size, bone, substance and the right conformation, and among them are some outstanding propositions that merit the attention of the most discriminating buyers on sale day. Twenty breeding cows, from two to five years old, are in the offering, many of them with lusty calves at foot and all bred to high-class bulls in England. These cattle were recently inspected by the writer at the farm of George Leigh near Aurora, at which place the sale will be held, and while many of them are in rather thin condition, owing to the fact of their recent importation, yet we have no hesitancy in thoroughly endorsing the offering to the fullest extent. Mr. Leigh, who is one of the pioneer Hereford men of this country and who has imported more white faces than any other man in America, considers it easily one of the very best lots of cattle that he has ever had anything to do with, and his judgment in this matter will be confirmed by all those who see the cattle on sale day. This is the first importation of Hereford cattle that has been made to this country in over a decade and the thanks of the Hereford men generally are due to Mr. Leigh and Mr. George for their enterprise in the matter. The catalog should have wide distribution, copies of which can be secured by writing to George Leigh or William George, Aurora, Ill., as per the advertisement on this page. When you write kindly mention The Homestead.

Hampshires From Imported Stock.

There is no prettier sight than a nice flock of sheep quietly grazing in the meadow. This may be seen on the Twelve Oaks Farm of Ritchie Bros., Sun Prairie, Wis. For several years they have been breeding pure-bred Hampshires, using only imported rams and practically all imported ewes. They now have a fine flock of over 100 of these big, strong sheep. They won several firsts at the Dane County Fair with their flock. They are also breeding registered Percheron horses, which have likewise won several prizes at the local fair, including a silver cup. For further information write Ritchie Bros., Sun Prairie, Wis.

Will Crow's Poland Chinas.

If you want to see a good bunch of spring pigs go and see Will Crow, Webb, Iowa. He has 125 of them, big stretchy fellows, maybe no larger than some we have seen, but in the main much larger and smoother than the average crop that you will see from week to week. The remarkable evenness of the bunch is the best evidence that Will Crow is raising a practical, easy-feeding kind of the large-type Poland Chinas. We remember well a great many years ago when he had old Crow's Model at the head of the herd. He was not a beauty by any means, but he had plenty of size and he was a breeding boar. He certainly left a lot of good sows in the Crow herd and they were practically the foundation of his success. He has very few of these left, but the blood of old Crow's Model is still in evidence through his many granddaughters. Then followed Up To Date, a large boar of the easy-feeding type and his get were of the same kind. Today his chief herd boar is Crow's Kind, a son of that noted breeding boar, Big Orange, and he is out of Big Castle, a daughter of Big Wilkes, and she is one of the best sows in the Crow herd. This boar is an unusually large and a wonderfully thick hog and he will weigh as much as most of those that they are calling 1,000 and 1,100-pound boars. As to his breeding ability we will simply ask our readers to take a look at his get and you will agree with us that his get are large, big in bone and uniformly smooth. One of his best spring litters by this boar is out of Model 1910 and she is a daughter of Hadley's Expansion. There are four boars and three sows in this litter and they are large, smooth and not a poor one in the bunch. Another Crow's Kind litter is out of a Big Surprise dam and they are just like the first-named litter. A litter of four by Big Surprise, out of Miss St. Louis A, (a Mouw sow) will be very large and they are well grown out and will be right for any breeder to buy. The old sow is one of the best he has in the herd and she is rebred for fall litter to Crow's Kind. He has a splendid yearling boar in the herd called Brilliant and he is going to make one of the largest and best boars he has ever owned. He is a son of Model Monarch by Big Surprise and he is out of a dam by Hadley's Expansion. A perusal of his pedigree reveals some of the most noted sires of the breed and we regard this boar as one of the best that Will Crow has ever bred. He has a number of litters by him and they are showing up well. Another good boar that he is using is Straight Edge, a son of Prospect by Guy's Prospect and out of a daughter of Big Victor's Improver, he by Charlie Lonergan's Big Victor. This boar is an evenly turned fellow, with very few holes in him, and he is breeding well for him. He also has a few good litters by Big Porter, a boar that he sold some time ago and these are showing up quite well. He has three good fall boars that are sired by Crow's Kind that are worthy a place in any breeder's herd. One of these is out of Princess Lady, a litter sister to Crow's Princess, and the other two are out of a Crow's Model and Big Surprise dam. If you are on the market for a boar write Will Crow and let him send you a description of some of these best boars. When corresponding with him kindly mention The Homestead.

RED POLLED CATTLE.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

PRIZE WINNING RED POLLS

AN extra heavy milking strain of prize winning stock is the kind we breed. Stock for sale Mention Homestead and address.
Geo. Haussler & Son, Holbrook, Nebraska

WANTED A few registered Red Polled heifers, bred to calve in September or October. Give price and address L. L Woods, Grinnell, Iowa.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

Eakle & Sons' Durocs.

S. E. Eakle & Sons, Prophetstown, Ill., have one of the best herds of Duroc Jerseys in the state. This Homestead representative has been familiar with the products of this herd for several years and knows that these gentlemen are working along right lines. At the present time their herd is in fine condition and they have the best lot of boars of fall and spring farrow that they have ever owned. They have a large, smooth, easy-feeding type with vigorous constitutions. At the head of their herd is the great boar, S. E.'s Premier Col., a son of Premier Col. He is a large, smooth, rugged boar and very active. They also owned Disturber for two years. This is the great boar that now heads Mr. Browning's show herd. Messrs. Eakle have two crops of pigs out of him and at present they have fall and spring boars that are right sired by this great boar. They own the dam of Disturber and she has a great litter sired by S. E.'s Premier Col. These half brothers to Disturber are corking good ones and will make show hogs. They have a great litter sired by Disturber and out of a Model Chief sow. This litter has extra size. There is another litter by S. E.'s Premier Col. and a Defender sow out of Proud Lucy that are good. They also own Proud Lucy, a litter sister to the dam of Disturber that has a good litter sired by Volunteer. A full sister to this litter topped the H. E. Browning sale at $315. There are some herd headers in this litter. There is a litter by Cherry Chief that would have made a good showing if properly fitted. These gentlemen have the best herd of brood sows in northern Illinois sired by Chief's Col., Defender, Model Chief, Chief Select, Premier Col., Proud Col., Golden Model, Top Col. and others. The pigs from these sows and S. E.'s Premier Col., Disturber and Captain Model have the breeding, size and quality combined. Any of our readers wanting a herd boar should visit this farm and see this great herd of hogs. You can find the breeding and individuals to suit. Prophetstown is thirty-five miles from Rock Island and twenty-five miles southeast of Clinton, Iowa. They will be glad to answer any inquiries regarding prices, breeding or description. This firm are honorable gentlemen with whom to do business and treat their customers fairly. See their advertisement on page 26 and when writing them mention The Homestead.

LIVE STOCK AUCTIONEERS.

I KNOW THE DUROC.
I KNOW THE BREEDERS.
I KNOW THE BUSINESS.

COL. W. M. PUTMAN

TECUMSEH, NEBRASKA

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LIVE STOCK AUCTIONEER

I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

Be an Auctioneer

TRAVEL over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the actual practice school which opens October 6, 1913.

MISSOURI AUCTION SCHOOL
Largest in the World, W. B. Carpenter, Pres.
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LIVE Stock and Real Estate Auctioneer — 23 years' experience. Correspondence solicited.

W. J. Thompson, Dorchester, Neb.
PEDIGREED
LIVE STOCK AUCTIONEER

PROPRIETOR Elmwood Pony Farm. Shetland ponies for sale. Write for dates and information.

OLIVER S. JOHNSON

The Iowa Auctioneer

TIPTON - Cedar County - IOWA

C. H. WOOD,
Live Stock and Real Estate Auctioneer,
Valparaiso, Nebraska.

GENE FAGAN, AUCTIONEER
PEDIGREED LIVE STOCK
153 SALES LAST SEASON
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SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

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Office First National Bank Bldg., Lincoln, Nebraska

J. H. BARR, Hebron, Neb.
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Pedigreed live stock a specialty. Write for dates.

LIVE STOCK AUCTIONEERS.

D. H. CUNNINGHAM

LIVE STOCK AUCTIONEER

GRADUATE of Animal Husbandry Dept. at Ames. 8 years' experience and lots of good sales. For terms and dates address
D. H. CUNNINGHAM, WAYNE, NEB.
Care of Citizens National Bank

H. S. ALLEN, RUSSELL, IA.

LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

COL. H. L. IGLEHEART
Elizabethtown, Kentucky
LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

C. O. LOWRY, EDGAR, NEBRASKA
AUCTIONEER

PURE bred stock and farm sales a specialty. Am posted on pedigrees, individuality and values, been a breeder of pure bred stock the past sixteen years. Have held several sales of my own, besides crying sales for other people. Your patronage solicited, and fair and square treatment guaranteed. Write or wire for terms and dates, terms reasonable.

L. A. MATERN, WESLEY, IA.
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POSTED in all breeds of cattle, horses and hogs. Made sales for most leading breeders in northern Iowa. Also sales farm and real estate auctioneer. Write me for dates.

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LIVE STOCK AND REAL ESTATE AUCTIONEER
Pure-bred sales a specialty Write for dates

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PEDIGREED LIVE STOCK
MT. VERNON - - - IOWA

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AUCTIONEER
CAMBRIDGE - - - NEB.
(If it's results you wish, let's talk it over)

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IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
J. L. Thatcher, Manager.

BERKSHIRES

The result of years of selection for health, breeding and marketing qualities. Head your herd with hardy, pedigreed stock from the finest herd in the world—best to buy because they make most money for you. Write now for particulars.

MORGAN FARM, Beloit, Wis.

HOLLAND FARM BERKSHIRES

YOUNG boars and gilts of prize-winning stock, royally bred, of the Masterpiece family. They will please you. Prices reasonable. Address
C. B. Nichols Live Stock Co., Cresco, Iowa.

LET'S MEET AT THE
IOWA STATE FAIR
DES MOINES
AUGUST 20 TO 28, 1913

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A. H. WINDOM'S
GREAT OFFERING
LARGE-TYPE POLAND CHINAS

40 Head---10 Great Fall Boars Sired by Pawnee Nelson, 13 Proven Brood Sows Bred to Pawnee Nelson, Yearling Sows and Spring Boars

Nodaway, Ia., Aug. 22 1913

The 935-Pound Boar, Pawnee Nelson.

INCLUDED in my sale will be 10 of the greatest fall boars that you will see in any sale or herd this year and they are all sired by the 935-lb. boar, **Pawnee Nelson,** regarded as the greatest son of Pawnee Lad, and one of the greatest breeding boars living. There will be 13 of my best tried sows in sale bred to **Pawnee Nelson,** and some great Pawnee Nelson yearling and fall sows, bred to **Progression** and **Windom's A Wonder.** I am also selling some grand good spring boars sired by **Pawnee Nelson** and **Progression.** Write for my great catalog at once and mention Iowa Homestead. Address

A. H. WINDOM - - **NODAWAY, IOWA**
H. S. DUNCAN, Auctioneer M. T. WHITE, Field Man for Homestead

SHORT-HORN CATTLE.

SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH - - - - NEWTON, IOWA

Choice Short-horn Bulls for Sale

WE are offering some very choice young Scotch and Scotch-topped bulls for sale. Some choice herd headers among the bunch Write or come and see us.
HELD BROS. - - - Mondamin Farm - - - HINTON, IOWA

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

ARCHER 317821
FOR SALE

A FOUR-YEAR-OLD red Short-horn bull of good scale and a tried breeder in finished breeding condition. Will sell cheap if taken now. Also have six 10 to 13-months-old calves for sale.
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Solve It by Breeding Bates Short-horns

Mine Are From the Best Milking Strains.
B. W. LITTLE - JANESVILLE, WIS.

SHORT-HORN BULLS

SOME excellent bulls of serviceable ages. Pure Scotch, others Scotch topped. Good breeding, best of individuals and at farmers' prices. Address
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1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

POLLED DURHAM CATTLE.

D. S. Polled Durhams, reds and roans, both sex. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

Choice Scotch Bulls
FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
C. A. SAUNDERS, - MANILLA, IOWA

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE - MT. VERNON, IOWA.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
J. E. Barr, R. F. D. 4, Davenport, Iowa.

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
W. M. MYERS - - - BEAMAN, IOWA.

Cedar Hill Short-horns

SOME excellent young bulls, sired by the 2,200 lb. Secret Hero, also a pure Scotch tried bull. Prices low for quality offered. We maintain milk records on many of our cows. Mention The Homestead.
IRVIN E. WILSON, BELVIDERE, NEB.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.
F. H. EHLERS - - TAMA, IOWA

SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

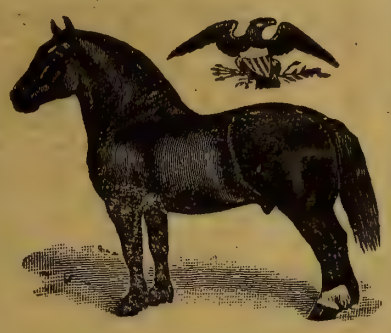
HORSES.

GOOD'S HORSES AT IOWA STATE FAIR

I WANT every one to come and see my horses at the Iowa State Fair. I will be there with 20 Imported Belgians and Percherons. A strong line of three-year-old stallions, some younger ones that include colts good enough to go anywhere. Useful mares of breeding age. These horses are not fat, but they are in form to make money for buyers. There are some bargains among them. Come and look them over, even if you don't want to buy.

C. C. GOOD - - - - - - - OGDEN, IOWA

Special Sale of Percheron and Belgian Stallions For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

MAASDAM & WHEELER
FAIRFIELD, IOWA
PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

OAKLAWN STOCK FARM
Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.
GEORGE EGGERT - - - - - - NEWTON, IOWA

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a grand bunch of mares and fillies. Mares are all in foal to imported stallions I will show at the **Iowa State Fair** and want to meet all interested in good Belgians. See my exhibit. I will be pleased to meet you. Farm one-half mile from town.
R. F. FRENCH - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW!
V. W. HARMS,
FAIRBURY, ILLS.

McLAY CLYDESDALES
MAKE GOOD
McLAY BROTHERS,
Janesville, Wisconsin

PALESTRO I. 52027 (67506) will make the season of 1913 at my farm 2 mi. east of Garner, Ia. Palestro I. is a black sired by Mon Jarret (47526) by Theudis, by Besigue, by Brilliant III. and dam traces to Brilliant III. Write for terms. Henry Moll, Garner, Iowa.

When writing to advertisers please mention The Homestead.

BELGIAN EMPORIUM OF AMERICA.

A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address
HENRY LEFEBURE - FAIRFAX, IOWA.
Eight miles west of Cedar Rapids.

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NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.
BUY THREE IN ONE
See the mares in pasture or infield work.
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You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America. **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

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Home bred draft stallions $250 to $500. Guarantee to sell you imported stallions for less money than any firm in America. Come to a five stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

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RIVERSIDE FARM MULE-FOOT HOGS
WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale. We are pioneer breeders of Nebraska. Write today.
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Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

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AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

CLOSING-OUT SALE—August 20th. Percheron and French Draft horses. Catalogs sent on request after August 1st. W. J. Cunningham, R. F. D. No. 5, box 45, Pittsfield, Illinois.

300 **SHETLAND and Welsh ponies** for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill.

CHESTER WHITE SWINE.

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent fall boars, some choice herd headers. Also 50 good spring boars. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

KENT'S IOWA HERD CHESTER WHITES
A SAMPLE of the great Doras herd of prize winners of last year will be again on the state fair circuit Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - ELLSWORTH, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - PRESCOTT, IOWA.

C. C. EVANS
LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and glits sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
W. H. DUNBAR, JEFFERSON, IOWA

A FEW choice Chester White boars old enough for service. Eighty two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

CHESTER WHITE BOARS FOR SALE
I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

Improved Chester White Glits. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

CHESTER WHITE SOWS

TEN good fall sows, bred for August farrow, at low prices for quick sale. They trace to Lewis R., Keep On and other sires of show yard note, and now bred to Iowa Pride, a Hoover bred hog. They are right in every way and in perfect health and thrift. Write or come and see them.
G. O. SATRE - - - - - - JEWELL, IOWA

CESETER WHITE BOARS
I HAVE a fine lot of March and April boars sired by Joe O. K., Perfection Chief, Chief Combination, Silver Tip and Elmore's Choice that I will sell very reasonable. I guarantee the boars to please you or you can send them back. Mention Homestead.
H. T. D. HENDERSON - KEOTA, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good glits are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
AMOS TURNER - WILBUR, NEB.

FOR SALE—A choice lot of Chester White spring boars sired by Bob and he by Pathfinder. Prices made to sell. A. C. Orme, Nodaway, Iowa.

O.I.C. Spring pigs, either sex. Express prepaid. Address **W. Doolittle, Woodland, Mo.**

HEREFORD CATTLE.

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead, **N. D. MYSENBURG, David City, Neb.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, NEWTON, IOWA.

10 HEREFORD HERD HEADER BULLS

AVERAGING 12 months old, weighing from 1,000 to 1,200, in good condition, now offered for sale Intensely bred Anxiety 4th bulls with good bone, heavy hind quarters and droop horns. By Beau Gondoline, Rex Onward 4th and Bright Lad from Beau Donald 12th and Beau Brighton dams. We also have 50 head of the plainer sort of registered Hereford bulls. **A. SPOONER & SONS, MONDAMIN, IA.**

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FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

POLAND CHINA SWINE.

COOPER'S SPECIAL 30-DAY BOAR SALE

WE have over **100 head of boar pigs of spring farrow.** We have 25 sows to begin to farrow in 2 weeks. We must have room for them. Hence, for 30 days we are going to sell these boars at prices they will bring on the market next fall, and they will be worth $40 to $100 each as breeders at that time. They are all immunized. We guarantee safe delivery and record them at

25 DOLLARS EACH

They are sired by Big Expansion (the 800-lb. son of the noted Dorr's Expansion), Big Bone 2nd (weighing 900 actual pounds, a son of Big Bone), Chief Leader (weighing over 500 lbs. at 14 months old), and Ideal Chief, and other noted boars. **The dams are sows weighing from 500-lb. yearlings up to sows of over 800 lbs.** If you are in the market for the biggest blood lines, from big sires and dams, send your check, tell us the kind of pig you want and we will send him or return your money. You will not buy such boars, such breeding, at the price again this year. Buy your boar now and save 20 to 50 dollars on him.

W. H. COOPER - - - - - - - - - - **HEDRICK, IOWA.**

BIG BONE 2d 161497.

Faulkner's Famous Spotted Polands

"Are Leaders of Their Kind."

150 May and June pigs now ready to ship. The special price of $35 single, either sex; $65 pair, no akin; or $90 trio, no akin, will sell them all in the next thirty days. Start right with the kind of our forefathers. Mail your check with first letter. Everything registered.

HOMER L. FAULKNER - Owner Highview Breeding Farm - JAMESPORT, MO.

LAWSON'S SENSATIONAL BIG POLAND CHINA BARGAINS

THE home of the noted breeding boar, **Long King's Equal** (weight 965 lbs. in breeding condition, weighed in the presence of forty breeders). Sows bred to him and **A Wonder's Jumbo** for fall litters. **150 Choice Spring Pigs** that I am now offering at private treaty. Will not hold fall sale and will sell these out privately at less than half the money they would bring in a sale. Now is the time to get your bargain while the good ones are here. Write me at once for description and prices and mention Homestead.

JOHN B. LAWSON - - - - - **CLARINDA, IOWA**

C. F. Adams' Big-Type Poland Chinas

I AM making special prices on spring boars and gilts for the next thirty days. I have a grand lot of them sired by **Mammoth Jumbo** by Big Jumbo, **Maid's Halvor 1st** (the sensational two-year-old son of Big Halvor and Long Maid), **Adams' Big Hal** by Big Halvor and **Long Columbia.** These pigs are out of my

Sensational Herd of Big, Smooth Sows

sired by some of the most noted boars of the breed. The prices I am making on these pigs are about one-third what they will be worth in a year from this time. Write me at once if you want a high-class pig at a bargain. Mention The Homestead when writing me.

C. F. ADAMS - **OWASA, IOWA.**

LONG KING'S SUPERIOR

ONE of the very greatest two-year-old boars in Iowa heads my herd. I have a few extra good big sows by P.'s IXL, bred to **Long King's Superior** and a few sired by **Long King's Superior,** bred to A Wonder again due to farrow in August and September that I will sell worth the money. Annual boar sale Oct. 8, 1913. Write me for prices on bred sows, mentioning Homestead.

C. W. PHILLIPS - **NEW SHARON, IOWA**

For Sale

EASY feeding big-type Poland China hogs. The prolific kind of all ages, either sex. Spring pigs for the next thirty days at $25 each. Fall yearling boars $40 and $50 each. Sows bred for August and September farrow $40 and up. We guarantee safe delivery and ship on approval.

J. B. HEISEL - - - **GRINNELL, IOWA.**

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - - - - - - **KELLEY, IOWA**

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

KELLEY, IOWA

BIG POLANDS, THE JONES KIND

SOME extra choice spring boars, real big ones, sired by Jumbo the Great and other noted sires. They are all out of choice big roomy sows. If looking for real big stuff address mentioning The Homestead

ORVILLE O. JONES - - - - - - - - **YORK, NEBRASKA.**

MORGAN'S EXTRA BIG POLAND CHINAS

AN excellent lot of spring boars on hand sired by the great boar, Long Sam by Sampson, and out of the $465.00 sow, Big Standard. Also others by Guy's Price Wonder, and other choice boars. They are out of as big sows as in the West and of the very best breeding. Mention Homestead and address

JOSHUA MORGAN - - - - - - - **HARDY, NEBRASKA.**

BIG HERCULES

ONE of the very biggest of all the extra big ones is at the head of our Poland China herd. In our Oct. 23rd sale we will offer a few sows either bred or with breeding privilege to this boar. We have an extra select line of spring boars that we will offer at that time. They are by the great Gold Medal. Let us tell you of these big Polands.

J. R. NASH & SON - - - - - - - **MINDEN, NEBRASKA**

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

J. D. Cates & Sons, Ravenwood, Mo.

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

12---High-Class Poland China Fall Boars---12

I AM offering 12 of the best fall boars you ever saw sired by **Lingford's Choice,** 2d prize Nebraska State Fair boar. Price $50.00 each. These are strictly choice and good enough to head any herd. Forty spring boars. Price $30 to $50. Write me at once and mention Iowa Homestead.

J. H. HEALY - - - - - - - **MANILLA, IOWA.**

30---EXTRA CHOICE BIG-TYPE POLAND BOARS---30

SIRED by my great herd boar, **Pawnee Price,** one of the greatest boars living. He is a half brother to Big Ben and Big Joe. I have some corking good spring boars by him out of daughter of Big Tom, Big Orange, Pawnee Lad and A Wonder. I also have good boars sired by Big Joe, Mable's Wonder and Mastodan King. Prices $30 to $50. Write or come and see me. Address,

W. E. ZIMMERMAN - - - - - - - - **NEOLA, IA.**

POLAND CHINA BARGAINS

AM making special prices to move the choice bunch of early spring boars on our farm. They are great big, smooth fellows, of excellent breeding and will be priced so that you will buy if you really want good ones. Write me today. Address mentioning this paper.

JOHN L. NAIMAN - - - - - **ALEXANDRIA, NEB.**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - - - **MINDEN, NEBRASKA.**

KETCHEM'S BIG POLAND CHINAS

EXTRA choice spring boars by the 1,000 Progressive Monarch, and Mastodon King by King Mastodon Jr. These are the real big ones. Address

E. T. KETCHEM - - - - - - **SHICKLEY NEBRASKA.**

12 HIGH-CLASS POLAND CHINA FALL BOARS

I AM offering 12 strictly choice fall boars sired by the great 950-lb. boar, **Pawnee Nelson,** that is regarded as one of the greatest living Poland China boars. These are out of 600 and 700-lb. sows. Price $40 to $50 for quick sale. Address, mentioning The Homestead, **A. H. Windom, Nodaway, Iowa.**

Wissel's Big Polands

SOME extra nice spring boars, of the best of big breeding for sale at farmers' prices. Write or visit the herd. Address

HENRY WISSEL - - - - **ROCA, NEB.**

LINE BRED EXPANSION BOARS

SEVERAL suitable to head Poland China herds; others good farmers' boars. A few sows bred for fall litters. Mention The Homestead and address

C. B. Kneer, Stromsburg, Nebraska.

Big Poland Chinas

EXTRA big spring boars, best of Poland China blood and will be offered at farmers' prices, but good enough for anyone. Address

PERRY A. SNYDER - CARLETON, NEB.

Poland China Herd Boar

BY BIG JONES, two years, also two fall boars and some spring pigs. Fair prices.

O. J. SATRE - - - - **JEWELL, IOWA**

BIG-TYPE POLAND BOARS

20 FALL BOARS sired by the 1,000 pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. Mention The Homestead when writing.

E. W. KREISCHER, MT. VERNON, IOWA

GOOD LUCK HERD POLAND CHINAS

WE are offering big-type September boars and gilts for sale sired by Giant Wonder 184793, and a few extra good gilts bred for September farrow to F.'s Longfellow. Will ship on approval and prepay express charges. Satisfaction guaranteed. Write for descriptions and prices.

L. S. Fisher & Son, R. 1, Edgewood Iowa.

Fred Sexsmith's POLANDS

MEET me at the Iowa State Fair if you are wanting a "rip-nailing" good boar. I have 35 head of the best I have ever raised. Address

FRED SEXSMITH - **ORIENT, IA.**

BIG-TYPE POLANDS

I HAVE a grand lot of March and April boars and gilts sired by **Quality King,** a grandson of Long King and **O. K. Price,** by Chief Again Price, also a few open yearling sows. I breed for size and quality. Herd largely of Mouw, Lawson, Johnson and Wheeler breeding. My prices are low and my hogs will please you. Mention Homestead when writing.

H. CRABTREE, - - - **BAXTER, IOWA.**

Fall Poland China Boars

I HAVE now for sale the best lot of fall boars I ever raised. They will weigh from 300 to 325 pounds. I have spring pigs weighing 100 pounds or better. These boars are sired by Pawnee Expansion and R. C. Pawnee Lad. The fall boars will be sold at $35 and $40 each, crated and ready for shipment. The fall boars are vaccinated.

JOHN I. DRIPPS - - **SPRINGVILLE, IA.**

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Pioneer Poland Chinas

49TH year at Iowa State Fair. Pigs for sale. Come and see me at pens 1, 2 and 3.

W. Z. SWALLOW - WAUKEE, IOWA.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

WAYSIDE POLAND CHINA

Choice fall boars and open gilts big-boned, lengthy ones. Also spring pigs. Prices $20 to $40. E. J. Augspurger, Pulaski, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

ABERDEEN ANGUS CATTLE.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 134652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

ESCHER'S ANGUS BARGAINS

WE offer at private treaty **50** coming yearling Aberdeen Angus heifers, sisters in blood to champions and reserved champions at Chicago, 1911. Fifty imported females—most sired by our great imported bulls; 650 head in combined herds. Bulls of all ages, high-class herd headers for sale. Write or come and see

Escher & Ryan, Botna, Iowa. **Chas. Escher & Sons, Botna, Iowa**

ANGUS BULLS

WE are offering a superior lot of Angus bulls of the richest breeding, just ready for service. They are priced right. Herd headed by Imp. Ideal of Stranden 28158. We are offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. Address R. Wilkinson & Sons, Mitchellville, Iowa.

BULLS ALL SOLD

I HAVE a few yearling and two-year-old Angus heifers for sale, also three toppy bull calves that were calved in January.

A. G. MESSER, GRUNDY CENTER, IOWA

Mention The Homestead when writing.

LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

DUROC JERSEY SWINE.

COL. SENSATION 98291

THE SENSATIONAL BIG-TYPE DUROC JERSEY BOAR OF THE YEAR

WEIGHED 1,055 LBS. ON JULY 24, 1913

Watch for this great hog at the Iowa State Fair. He now weighs 1,055 lbs., and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best big-type boars you ever saw. Don't fail to see him at the fair this fall. Will be pleased to show him to you if you come to the farm.

J. B. ASHBY - - - - - - - - - - - - **AUDUBON, IOWA**

I AM A CRIMSON WONDER 2d

(Grand Champion Boar at Sioux City)

WE are offering some outstanding spring boars for sale sired by Crimson Wonder 3d and other noted sires and out of the top sows purchased at the leading sales the past few years. Prices $30.00 to $50.00. Write us for description and mention Iowa Homestead. Address

SWAN & ELLIS - - - - - - **INDIANOLA, IOWA**

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mount's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address

B. W. HUNT - - - - - - - - - - - - **DENISON, IOWA**

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th bred boar. Order at once, write or come see. Farm adjoins town.

A. T. BOSELY - - - - - - **FAIRBURY, NEBRASKA**

THE . KALL HERD OF DUROCS

WE bred and owned the grand champion, Critic B. We still have his sire, Dusty Critic 2nd and have some choice prospects by him. Cedar Grove Clif, the first prize boar Kansas State Fair, also in use. He is a son of Lincoln Chief, the first prize boar, Neb. in 1911. We would like to hear from you if in search of some choice breeding stuff, and would like to meet you at the Nebraska State Fair.

DANFORD & DEWHURST - - - - - **ORD, VALLEY COUNTY, NEBRASKA**

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address

J. A. JACOBSON - - - - - - - - **MARQUETTE, NEBRASKA.**

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address

E. L. BUSCH - - - - - - - - - - - - **SYRACUSE, NEBRASKA**

20 HEAD DUROC JERSEY FALL BOARS

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Order at once. Address

GEORGE C. EVERTS - - - - - **AUDUBON, IOWA.**

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address

C. S. COCHRAN - **R. F. D. 7.** - **LINCOLN, NEBRASKA.**

MINNESOTA'S MOST NOTED DUROC JERSEY HERD

Owned by W. N. Shanks, Worthington, Minn.

I AM offering a great line of high-class boars for sale, viz: Four by the great boar **Model Chief 2d** and two by that celebrated old champion, **Crimson Wonder Again.** 170 spring pigs, sired by the 1st prize boar **Chief's Model,** and **Model Chief's Last.** These are out of the greatest line of brood sows in the Northwest. Write for prices and description and mention The Homestead.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address

LEWIS KREITZBERG - - - - - **GRISWOLD, IOWA.**

THE BEST IN DUROCS

WE have 15 fall boars sired by Disturber (H. E. Browning's great boar), S.E.'s Premier Col. and Captain Model: 60 March boar pigs sired by Disturber, S.E.'s Premier Col., Cherry Chief, High Col., Volunteer and Captain Model. Best lot of pigs ever on farm. If you want a boar write me. 14-months Red Polled Bull for sale. Mention Homestead when writing.

S. E. Eakle & Sons - Prophetstown, Ill.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.

JOHN KREBS - - - **RIVERSIDE, IOWA**

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.

HUGH M. FICKE, LONG GROVE, IOWA.

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.

C. A. MOULTON, MORRISON, ILLINOIS

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder and out of choice sows. Also some by the great Wilde's Wonder. Prices to move these hogs early. Write today. Address

WM. BORNEMEIER - ELMWOOD, NEB.

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.

E. CRABS - - - - **ALEDO, ILLINOIS**

DUROC JERSEY BOARS

I HAVE a fine lot of fall and spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.

J. E. SMITH - - - - **VICTOR, IOWA**

YEARLING DUROC BOARS

I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices. R. R. Station, Tripoli.

M. S. PRATT, - **FREDERIKA, IOWA**

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H.'s Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,

P. O. WEBERG - - - **DENISON, IOWA**

DUROC JERSEY FALL BOARS for sale; also trios. reasonable prices.

L. L. DE YOUNG, SHELDON, IOWA.

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address **R. J. HARDING** - - - - - - - **MACEDONIA, IOWA**

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale, sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address

A. F. HAGER - - - - - **AVOCA, IOWA**

DUROC JERSEY SOWS

BRED for August and September farrow to some of the best sires of the breed. 180 spring pigs. Male pigs for sale at reasonable prices. Gilts reserved for winter sale.

F. CHRISTENSEN, FAIRMONT, MINN.

HIGH-CLASS DUROCS

CHOICE spring boars by R. & J.'s Golden Model, also by the champion Critic B. From one of best herds of sows in the state. Farmers' prices. Address

A. J. REGIER, HENDERSON, NEB.

DUROC JERSEY FALL BOARS

OCTOBER boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears.

J. C. PORTER - - - - **OGDEN, IOWA**

50 DUROC JERSEY BOARS

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr. Splendid boars at $25 and $30. Order now and get the best.

HEIKO GRUIS - - - - **GEORGE, IOWA**

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

WELL BRED DUROCS

WE have the best lot of boars for sale that we have ever offered. They are sired by Chief Select, Jr., 103747; B. & S. Golden Model, 129083; Model Chief, Jr., 130219 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write us for prices if you want a good boar reasonable. Mention Homestead

BALMAT & SWALE

Mason City, Iowa, and Fredericksburg, Iowa.

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Address

Fred Swan - - - **Missouri Valley, Iowa.**

37---DUROC JERSEY BOARS---37

I AM offering seven choice fall boars, thirty good spring boars for sale at prices ranging from $25 to $40. Get your order to me at once and get a good boar at a reasonable price.

HENRY E. WEGTER, SHELDON, IOWA.

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write

WILL THOMPSON, R.F.D.2, JESUP, IOWA

DUROC JERSEY Boars—a yearling by King The Col. and Red Col., a yearling by Whitehall Col. and out of Silkie. S. I. Welch, Cherokee, Iowa.

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

HAMPSHIRE SWINE.

PRIZE-WINNING HAMPSHIRE SWINE

I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

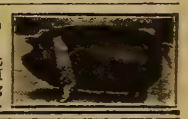
DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, **DE KALB, IOWA.**

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine



WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

Sunny Slope Hampshire Swine

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

Causman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.

C. H. GAUSMAN - **SEWARD, NEB.**

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address

Billie McFarland - - - **Syracuse, Neb.**

BIG HAMPSHIRES Extra choice spring boars, also gilts for sale now. Best breeding, moderate prices. C. S. Bratt, Arapahoe, Nebraska.

Hampshires-- Bred sows $35. Spring pigs with pedigrees $12 to $20 per pair. Galloway Farms, Waterloo, Ia

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address

L. F. TETER - **SHICKLEY, NEBRASKA**

HAMPSHIRE HERD

CONSISTING of 40 head, tried sows, yearlings, spring boars and gilts. Address,

ED SHERMAN - - **CORTLAND, NE**

VALLEY View Hampshires. One large 2-year-old boar for sale. Quality and quantity. Breeding & belting first class. Fred Wheeler, St. Charles, Ia

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address

A. L. DIEHL, BENEDICT, YORK CO., NEB.

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address

J. E. BECKENDORF, WALNUT, IA.

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address

E. S. McCANDLESS - THURMAN, IOWA

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. ...ws and heifers for sale. Write, or come ...cattle. On main line Santa Fe R. R

... MILLIKEN - Media, Illinois.

...t the best Galloway cattle—Oxford Down ...e the Maple Grove Stock Farm, where ...nners are bred; undefeated get of sire ...ears in succession. 21 bulls for sale.

C. S. Hechtner, Charlton, Iowa.

All Around the Circuit

At Every Fair and Stock Show

Good Judges Feed and Recommend SAL-VET For All Stock

L. H. COOCH, Editor of the Practical Farmer, Philadelphia, Pa. says—"After feeding "SAL-VET" to my horses and cows for a month, I am glad to give the preparation my hearty endorsement. 21 cows fed "SAL-VET" showed a condition that was really remarkable."

ROSCOE M. WOOD—Sec'y The Standard Delaine Merino Record, Saline, Michigan, says. "We have found a worm preventive in "SAL-VET" when proper conditions are maintained and it is kept constantly before the flock so they can eat all they want and have no other salt."

Hon. A. J. LOVEJOY, Roscoe, Ill., Pres. International Live Stock Exposition, Sec'y Berkshire Swine Breeders Ass'n, and State Senator of Illinois, writes: "SAL-VET" is the best thing we have ever used. We can heartily recommend it to all sheep and swine breeders."

S. R. FEIL
President

Registered Pharmacist; Graduate National Institute of Pharmacy

Now I Ask You to Judge It For Yourself

I am willing to let you decide on your own farm, the real value of using SAL-VET on your own stock. I have PROVED to the satisfaction of thousands of prominent farmers and stockmen, breeders and prizewinners, agricultural colleges and experiment stations, that SAL-VET is DEATH TO WORMS—is a big profit producer—that it prevents losses by putting stock in condition to better resist disease—that it saves feed—saves worry and makes healthier, thriftier, more valuable animals. Notwithstanding the fact that I can refer you to hundreds of breeders who have used SAL-VET I STAND READY TO PROVE ALL THIS TO YOU ON YOUR STOCK BEFORE YOU PAY ME A PENNY.

SAL-VET

REG. U.S. PAT. OFF.

The Great Worm Destroyer and Conditioner

is a wonderful medicated salt, prepared especially to rid farm animals of their greatest enemies—the stomach and intestinal worms. These destructive pests cause 90% of live stock losses and no telling how much in wasted feed. They keep your animals in a weakened, unthrifty condition and consume the feed that ought to be making your profit. You may not always notice their presence, but all stock are infested and cannot thrive until you rid them of these pests. Let me rid your stock of these profit-eaters. Let me make your stock healthier, sleeker, more profitable. I'll prove my claims before you pay.

I'll Feed Your Stock 60 Days Before You Pay

Just tell me how many head of stock you have, or want to feed—Fill out the coupon below—Send it to me personally according to the address given, and I'll ship you enough SAL-VET to feed your stock 60 days. DO THIS NOW. Don't take chances. Insure good health in your herds and greater profits.

Stock Relish It—Doctor Themselves

There is no drenching—no dosing—no trouble—in feeding SAL-VET. Simply put it where stock can get to it. They'll make better gains with no more feed. You will be repaid many times over in bigger profits and protection against loss.

Don't Send Me One Cent—Just the Coupon

Mail the coupon properly filled in—tell me how many head of stock you have and I'll ship you enough SAL-VET to last them 60 days. You simply pay the freight charge when it arrives. Let your stock run to it freely. In 60 days report results. If SAL-VET does not do what I claim I'll cancel the charge, and you won't owe me a penny. I could not make you a fairer offer.

SIDNEY R. FEIL, President

THE S. R. FEIL CO., Mfg. Chemists

Dept. IH **CLEVELAND, OHIO**

SIDNEY R. FEIL, Pres.

THE S. R. FEIL CO.

Dept. IH 8.14-13 **Cleveland, O.**

Ship me enough SAL-VET to last my stock 60 days. I will pay the freight charges when it arrives, agree to report results promptly in 60 days and at that time pay for it if it does what you claim. If it does not, you are to cancel the charge.

[132]

Name.....

P. O......

Shipping Sta......

Number of Sheep..... *Horses*.....

These Men Have Fed It

"Sal-Vet" was a great asset in feeding our undefeated home-bred animals at the fall shows, and we must have it to produce winners for the next season. The Champion Oxford Ram at the 1912 International has had constant access to "Sal-Vet."—Geo. McKerrow & Sons Co., Pewaukee, Wisc.

"Will say that "Sal-Vet" is the best stock remedy I ever used; beyond all doubt, it clears the worms from all stock, gives them soft, smooth, glossy hair, and tones up the system better than any stock powder I have ever tried."—J. M. Hodges, M. D., Physician and Surgeon, Cranberry, N. C.

"Since I have fed "Sal-Vet" I have not lost a single hog nor cow this spring. Everybody else around here has lost hogs and a great many cattle are dying in the neighborhood."—Lewis E. Choate, McAlester, Okla.

"After using "Sal-Vet", I find it possesses the essentials to a good stock remedy: 1st—its handiness to feed, 2nd—the fact that it is effective for all kinds of stock, 3rd—its low cost. Am very well pleased with the results."—A. H. Loucks, Aurelia, Iowa.

"I have seen such great improvement in the condition of my stock that I am fully satisfied that your "Sal-Vet" does even more than you claim. It cleared my horses of worms, after all other medicines had failed. You have a great stock remedy."—R. C. Pecht, Milroy, Pa.

"I was losing my lambs right along, until I began feeding "Sal-Vet"; since then, I have lost only one. After six weeks, I shipped them to the Pittsburgh market, where they sold for $9.30 per hundred, which was 5 cents over and above anything that sold in the market that day. This is what "Sal-Vet" has done for me."—Geo. Horn, Gambier, Ohio.

"Sal-Vet" surely is a great medicine. My lambs were dying at the rate of one or two every day. After I began feeding "Sal-Vet" I lost but one that was nearly dead by the time the remedy arrived. Since then I have not had any more losses and the lambs are all in tip-top condition. I would not think of keeping sheep without "Sal-Vet."—J. A. Biedert, R. No. 3, Findlay, Ill.

"My hogs certainly did fine while fattening, and I did not lose a single one, while some of my neighbors lost their entire herds. I must, and do give "Sal-Vet" credit for these results."—J. Wales Munroe, R. 6, Plainfield, Ill.

Look For This Label

on all SAL-VET Packages. Don't be deceived by imitations.

Don't buy "Sal" this or "Sal" that. Get the original genuine **SAL-VET.**

PRICES: 40 lbs., $2.25; 100 lbs., $5; 200 lbs., $9; 300 lbs., $13; 500 lbs., $21.12. No orders filled for less than 40 lbs. on this 60-day trial offer. Never sold in bulk; only in Trade-Marked SAL-VET packages. Shipments for 60 days' trial are based on 1 lb. of SAL-VET for each sheep or hog, and 4 lbs. for each horse or head of cattle, as near as we can come without breaking regular size packages.

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The Iowa Homestead

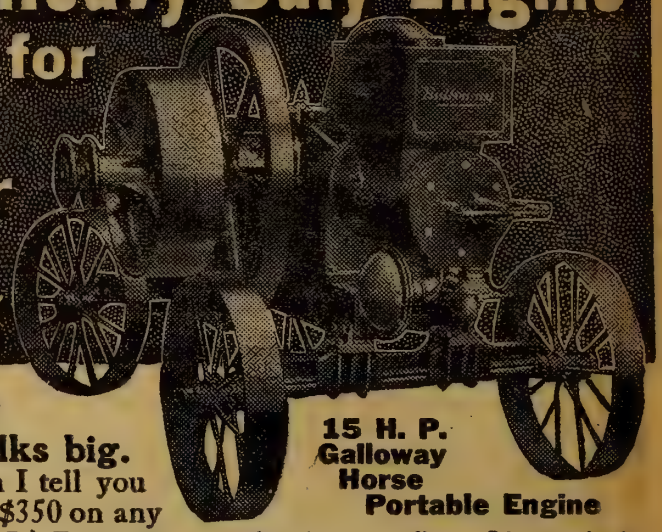
VOL. LVIII. NO. 34 DES MOINES, IOWA, AUGUST 21, 1913. WHOLE NO. 2915

I'll Tell You How to Save $250-$350 On a Galloway Heavy Duty Engine

7½—10—15 H. P. for Running Any of Your Large Power Machines

Write Me Today!

Wm. Galloway, Pres.



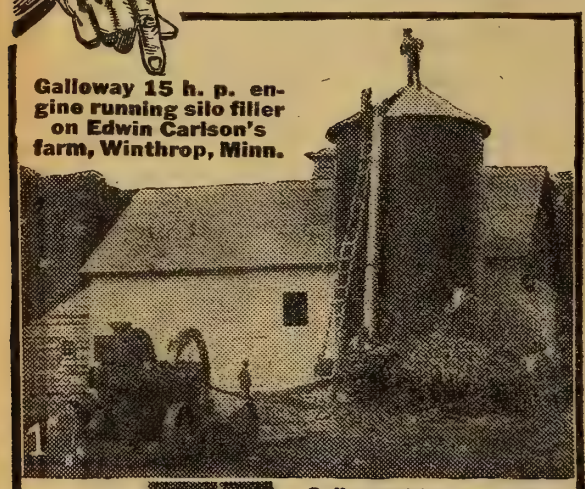
15 H. P. Galloway Horse Portable Engine

That's talking **big money but real money talks big.** I'll back up every statement when I tell you that you can actually save $250 to $350 on any Galloway Heavy Duty (7½ — 10 — 15 H. P.) Engine that you select from my line. It's an absolute fact and I can prove it to you in a flash when you get my offer.

Take my 15 H. P. Portable shown in the picture. **I sell it for half what you'd have to pay for a trust-made engine of the same power.** I said I'd prove your saving on any engine. All right, just drop me a line and I'll send you my big, illustrated engine catalog and Special 90 Day Price Offer. If anybody else wants to sell you an engine, **show him my prices and dare him to meet them.** I positively know that there isn't a single manufacturer in America who can meet my prices without losing money. My tremendous output and the direct selling plan that I have built up, make my low prices possible. When you buy a Galloway you pay just the bare cost of material and labor with only one small manufacturer's profit added. Compare that plan, backed by years of proved success, with the Trust way of adding four to six profits and you see how easy it is for me to save you $250 to $350 on your engine or your complete outfit. Now, I just want you to **investigate**, that's all. It's money in **your** pocket—**big** money. Write me a postal or a letter for my big engine catalog today. Remember, these engines are made in sizes from 1¾ H. P. to 15 H. P., either stationary or mounted, and are

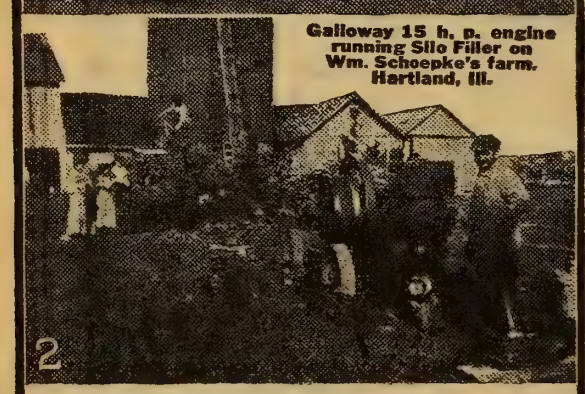
Sold Direct from My Factory to Your Farm

All Galloway Engines are made right in our own big chain of factories at Waterloo. There are no better made engines on the market. Galloway Engines are easy to start. Will run without attention as long as you want them to. Use less fuel per horsepower than any other engines on the market. They are proved engines. Over 30,000 in use today and all sold with the privilege of testing them 30 days on your own farm before you decide to keep them, backed by a five year warranty on materials and $25,000 legal bond. Every user of a Galloway Engine is a booster for them. That's why we sell more of them than any other concern in the world selling engines direct to the user. Isn't that proof enough that it pays to buy the Galloway and save from $250 to $350.



Galloway 15 h. p. engine running silo filler on Edwin Carlson's farm, Winthrop, Minn.

1



Galloway 15 h. p. engine running Silo Filler on Wm. Schoepke's farm, Hartland, Ill.

2

Get a Complete Galloway Silo Filling Outfit and Save Big Money

Remember, I can sell you complete Silo Filling Outfit, Shredder, Big Corn Sheller, Irrigation Pumping Outfit, Corn and Grain Elevator and Dump, and many other big combination outfits—all at money-saving prices. Just write me and tell me what you want and let me quote you the lowest prices ever made on these outfits. Write me without fail today for my complete Silo Filling Outfit. Hundreds in use and all giving complete satisfaction.

Free Service Department

My free Service Department, composed of the best engine experts, will give you all the information you want for the proper installation and use of your engine. They will tell you the best size engine to buy for handling your different machines, size pulleys, etc., and how to equip your engine for doing the best possible work This service costs you nothing, but is worth a great deal to you.

Here's the Real Proof

I just want you to look at these five illustrations here, showing 15 H. P. Galloway Engines at work in different sections of the country, running ensilage cutters and threshing machines. These are only a few of the many views of Galloway Engines at work running different machines, which we have on file. My big Engine Book shows a lot more. Sent FREE.

View No. 1 shows 15 H. P. Galloway Engine filling silo on Edwin Carlson's farm at Winthrop, Minn. Notice how smooth the engine is running in picture and without any attention. No. 2 shows a 15 H. P. Engine running a 20 inch cutter filling 16x32 silo on farm of Wm. Schoepke, Hartland, Ill. Mr. Schoepke said it took them only twelve hours, refilling and all, and that he filled four silos last fall. He paid for his engine the first year doing work for his neighbors at $10 to $15 a day. Good money to be made with a Galloway Heavy Duty Engine everywhere.

View No. 3 shows a complete Galloway Silo Filling Outfit on Mr. Galloway's own farm at Waterloo filling two twin hollow-block silos, each 50 feet high. How's that for silo filling? The pipe is 54 feet long. No. 4 shows Galloway 10 H.P. Engine running threshing machine on Walter J. Anderson's farm, Newman Grove, Neb. Mr. Anderson says, "I put it to hard work and it did fine. I had two other kinds but yours beat them." No. 5 shows a 15 H. P. Galloway Engine running threshing machine on W. H. Stuckmeier's farm near Waverly, Iowa.

Write for Catalog and Prices Today

Write me first. Get my 90 day special prices before you buy any other style or make of engine. It will be the best investment you ever made. I am selling more Heavy Duty Engines than ever before in the history of this big business because the men who have bought and used Galloway Engines are helping me sell them. Galloway Engines are their own best advertisement.

Remember, if you want a small pumping engine, or medium sized engine, I can supply you at a big saving. We make all sizes from 1¾ to 15 H.P. New Pumping Engine Catalog just out. Let me send you a FREE copy.

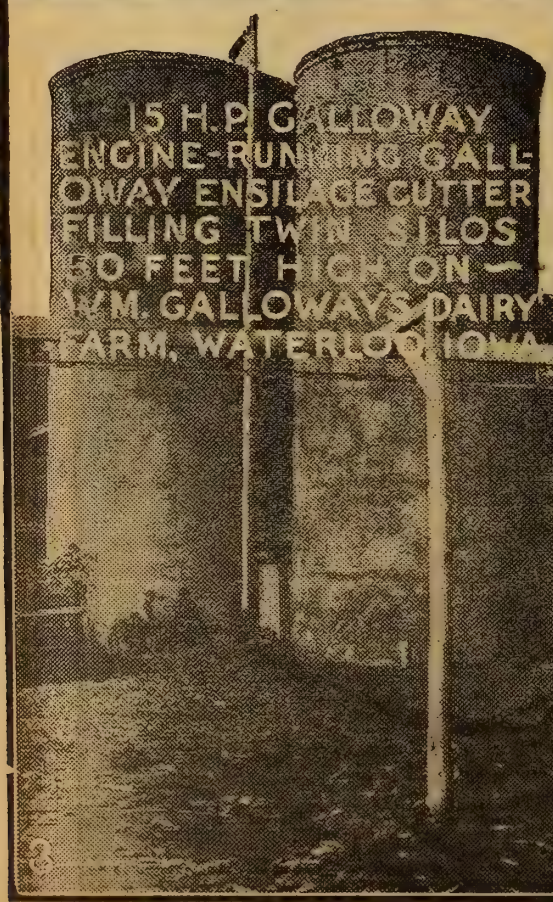
Get My Special 1913 Offer

Then as a clincher I am making the most liberal 1913 Co-Operative Profit Sharing Offer I have ever made, which is a tremendous, big inducement for you to buy the Galloway. It will actually help you get your engine partly or entirely without cost to you in the end.

Just mail me a postal or letter for my big illustrated engine catalog and I will give you all particulars of this special offer by return mail. Write me today. Do it before you lay this paper down. Address

Wm. Galloway, President, WM. GALLOWAY COMPANY

15 Galloway Station 555 **WATERLOO, IOWA**



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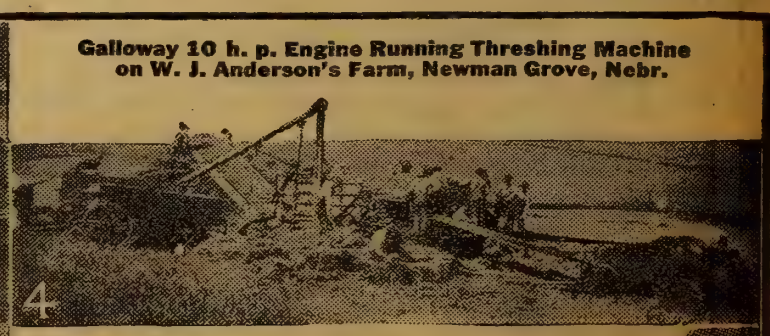

Galloway 10 h. p. Engine Running Threshing Machine on W. J. Anderson's Farm, Newman Grove, Nebr.

4

Galloway 15 h. p. Engine Running Thresher on W. H. Stuckmeier's Farm, Waverly, Iowa

5

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, AUGUST 21, 1913.

Is Sweet Clover Growing a Fad?

How one of the Commonest of Roadside Weeds is Living Down Its Past History and Making a Record for Itself as an Economic Plant

WITH a "weed" record of almost 200 years on American soil it is not surprising that men have winced under some of the eulogies that have been passed in recent years on the so-called bee or sweet clover. A roadside plant of remarkable persistence on account of its ability to produce seed, it has been fought as an unwelcome invader. Its promotion from the weed to the economic class has been the result of the work of a few enthusiasts during the last decade and one-half and as yet the doubting Thomases greatly outnumber the true believers.

After wading through field after field of sweet clover along with 500 fellow farmers on the farms of Mr. Frank Coverdale, of Clinton county, Iowa, we are convinced that there is a place for this legume on the farms of the corn belt. Mr. Coverdale has been growing it fifteen years and during that time has worked out some of the knotty problems connected with sweet-clover production. He has found that a stand of sweet clover can usually be obtained by seeding it with an early-maturing spring cereal. This means that it is not necessary to give up the use of the land for a year, which is sometimes the case in alfalfa growing. In this connection attention should be called to the fact that sweet clover will stand more hardship on account of dry weather after the removal of the nurse crop than will red clover. Millions of dollars have been lost by farmers of the corn belt during the last three seasons as the result of a two or three weeks' period of dry weather after harvest. This has. in thousands of instances, completely destroyed the new clover. If sweet clover will stand that siege, and apparently it will, then the crop is one that cannot be belittled with impunity.

Sweet clover is a biennial. This means that it must be allowed to reseed the ground if it is used as a permanent crop. One of Mr. Coverdale's fields has been in clover for a period of fiteen years and there is a perfect stand in that field today.

How about sweet clover as a pasture and forage crop? That is a matter that has been thoroughly tested by Mr. Coverdale, who finds that it makes exceedingly valuable pasture for cattle and hogs, that it never produces bloat, that it makes a hay equivalent in value to red clover or alfalfa, and, furthermore, under anything like favorable conditions, it will outyield the other legumes. The United States Department of Agriculture says that hogs pastured upon sweet clover will make gains that compare very favorably with those obtained from alfalfa or red clover. The digestible nutrients in a ton of sweet clover are even greater than in a ton of red clover, though, of course, its feeding value depends upon the stage of cutting and how it is cured.

Like all legumes sweet clover thrives best where there is considerable lime in

CHAMPIONS OF THIS GREAT LEGUME UP TO THEIR WAISTS IN THEIR FAVORITE CROP. JUDGE QUARTON, ALGONA, IOWA, (TO LEFT) AND MR. FRANK COVERDALE, DELMAR, IOWA.

the soil. On a rather thin hilltop on the Coverdale farm an application of two and one-half tons of ground limestone more than doubled the crop the first year. It matters not how stiff and hard a soil may be, if it is sweet. For best results inoculation is absolutely necessary, though in most cases the seed carries with it its own inoculation. Some claim that it is better in the first instance to use unhulled seed, as the dust in the hull inoculates the soil.

Sweet clover, if seeded with a nurse crop in the spring, seldom produces a cutting the first year. If conditions are favorable the first crop will be ready for the mower in June of the following year. It should be cut for hay before any blossoms make their appearance and before the stems become woody. Two crops of hay may be taken from the land and the third allowed to produce seed. The price of seed, however, has been such during the last few years as to justify the practice of letting the second crop go to seed. If there is a good stand and the soil is reasonably productive a yield ranging from six to twelve bushels of seed per acre may be expected. The crop is not hard to handle, but may be cut with a binder and threshed with a clover huller.

Mr. Coverdale has learned from experience that sweet clover should never be cut close to the ground, but as he says: "Cut it just above the lower branches of the plant." When this is done the following crop makes rapid growth, whereas if it is cut down to the ground the clover is invariably killed there and then.

The "weed" characteristics of this plant are shown by its adaptability to fit into varying conditions. It is found in semi-arid regions where timothy and red clover are unknown and it produces satisfactory crops in some of the eastern states on both acid and alkali lands. According to the National Department of Agriculture, "It will grow on soils too sandy to support ordinary field crops, and appears to be even better adapted to raw clay and loose cuts and fills, where scarcely any other vegetation is able to establish a foothold. It also makes an excellent growth in gravel pits and stone quarries, but for some reason does not seem to do well on unsettled, cultivated soil. It makes its best growth where the soil is compact and not crowded with other vegetation."

In the clamor for sweet-clover seed some farmers have been duped. They have been furnished seed of the yellow variety, which, while properly classified as sweet clover, is a low-growing, early-maturing type that is in reality more of a weed than an economic plant. The kind of sweet clover that makes good produces a white blossom, grows tall, branches profusely and matures its seed uniformly. While it is in reality the common roadside clover, yet cultivation is improving it so that men like Mr. Coverdale are beginning to recognize "varieties" within the species. There is surely a great work

(Continued on page 15.)

NATURE HAS BEEN ASKED A FEW POINTED QUESTIONS AND FARMERS ARE HERE INTERESTED IN RESPONSES THROUGH PLANT LIFE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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WHEN AND HOW TO APPLY LIME.

More and more men are recognizing the fact that production is often found to be at low ebb even when there is an abundant supply of plant food in the soil. This is especially true on types of soil showing a high percentage of acidity, a condition that can be very quickly remedied by an application of lime.

In a recent bulletin issued by the Wisconsin Experiment Station the question of applying lime to such a soil is discussed somewhat in detail. According to this bulletin any form of lime should always be applied previous to planting the crop which is to receive the benefit of liming. To be most effective, it should be applied to plowed land and thoroughly worked in by harrowing. Either fall, winter, or spring applications may be made on clay soils, but on light soils spring application is preferable so as to prevent leaching, which may occur on this type of soil.

There are several ways in which lime may be applied to the land, depending upon the facilities at hand and the condition of the lime.

Any form of lime which is damp enough to prevent blowing can be spread very well with a shovel directly from the wagon. A little skill in handling the shovel will enable the operator to spread it both quickly and evenly. Without any standard of measurement it is difficult, in spreading lime in this way, to determine just how thickly to spread it in order to apply the proper amount per acre. A square rod, which is a block of ground a little more than five paces each way, is a good unit of measure for surface, and a rounding shovelful a good unit for the lime. If, for example, the material is damp ground limestone to be applied at the rate of two tons per acre, every square rod should receive twenty-five pounds, which is equal to about two rounding shovelfuls. At this rate, a load of one ton will cover a strip two rods wide and forty rods long. Again, if the material is damp refuse lime (air and water-slacked lime) to be applied at the rate of two tons per acre, each square rod should receive twenty-five pounds, which is equal to about four and one-half rounding shovelfuls. It is very disagreeable and almost impossible to spread any dry, finely divided lime satisfactorily from the wagon.

Dry, air-slacked lime, kiln-dried marl, or dry, pulverized limestone can be most satisfactorily applied by the use of fertilizer distributor, or a lime spreader. Rock phosphate and lime distributors are attached to the rear of the wagon box. It takes one man to shovel the lime into the hopper from the box and another to drive. Lime spreaders built on the plan of an ordinary grain seeder may be had on the market. Some of these machines are attached to the rear of the wagon, and the lime is shoveled into the hopper from the wagon box, as in the case of the phosphate distributors. In some cases an ordinary seeder has given very satisfactory results when the lime is dry and free from coarse, hard lumps.

When there is much lime to be applied, a lime spreader would be a profitable investment. Two or more farmers can easily co-operate in buying a machine, securing the lime, and in getting the material spread on the land.

Sometimes a manure spreader may be used to spread lime. The spreader is set at its lowest gear, a few inches of fine manure spread over the bottom of the box to hold the lime in and the lime distributed evenly on top of this thin layer of manure. If three tons of refuse lime are to be applied per acre, and the machine is set at four loads per acre, as on lowest gear, then each load must contain at least 1,500 pounds of lime.

If quicklime is to be used, it can be hauled to the field and placed in little piles on the plowed land. Fifty pounds in each pile and the piles placed two rods apart each way, will give an application of one ton per acre. This lime may be slacked either by pouring a pailful of water on each pile or covering each with moist soil. As soon as the lime becomes slacked, the finely divided material should be carefully spread, the contents of each pile to be spread over four square rods. When this is done, the field is harrowed to work the lime well into the soil where it must be to do its work in correcting the acidity.

Under no consideration should quicklime ever be applied as a top dressing on young clover or alfalfa, for the caustic properties of this form of lime will kill the young plants.

The application of lime as a top dressing on young clover or alfalfa growing on sandy soils may prove very satisfactory if kiln-dried marl or finely ground limestone is used, though better results may be obtained by liming the plowed field before seeding. The openness of a sandy soil enables the fine lime particles to work their way down into the soil. Top dressings on heavy clay loam or silt loam have not, on the other hand, given very satisfactory results, for these soils will not permit the easy entrance of the lime particles as in case of sandy soils.

Sometimes, however, after harvest or in the fall, a farmer wishes to lime his spring's seeding of clover or alfalfa on clay loam, for example, in order to increase the yield of hay the next year, if possible. In such a case, partially air-slacked or water-slacked lime applied at the rate of a ton or a ton and a half per acre early the next spring before the frost is out, may prove very beneficial. Such an application should never be made after the young plants have started their new year's growth, because there may be sufficient caustic lime present in the material applied to kill them. A sandy soil may be treated in the same way.

DRAGGING A GRADED ROAD.

A Nebraska subscriber, Mr. F. J. Rist, gives his experience in dragging a road after it has been well graded. Among other things Mr. Rist says:

Much has been said in your paper concerning good roads. Most farmers are interested in good roads. They are a direct benefit to a farming community or any community. It has been my observation the past few years that when a farmer buys an automobile he begins to drag the roads. If autos will make good roads, "blessed be the auto."

In my estimation a good dirt road will be the road for the corn belt for some years to come. The split log or King drag is the machine that will build or keep up our roads if properly used. It is a comparatively easy matter to have good roads on paper, but constructing and keeping up a good road is a different thing. The road running by our place had never had any grading except at the culvert just in front of the house. It was low in the center and as the drain was toward the culvert from both directions, the water would drain down the middle of the road and make the road almost impassable at times. In April 1912, this road was graded in just one day with a four-horse grader, at a cost of $10 to the precinct, which allows $5 per year for keeping the road up. The grade is twenty feet wide and high enough in the center to drain well. I always make two rounds with an eight-foot split log drag when dragging. I have raised the center of the grade about six inches with the drag the past year. This road is nearly always smooth and solid, and is termed the "speedway" by autoists. No road should be graded unless it is to be kept up with a drag as it is a waste of money to grade the roads and not keep them up.

The main difference between the views of those who are "cranks" on dragging and those who believe in the sensible use of the drag relates largely to the emphasis that is placed upon grading previous to dragging. This paper has always claimed that in the case of soils that do not drain freely the first important thing is to put up a grade in order that water may freely flow to the sides of the highway. Some drag enthusiasts believe that the grade should be gradually made with a drag because in so doing they claim that an impenetrable crust is formed, one that is absolutely impervious to water. Theoretically this principle might apply, but practically it will be observed that the best roads are found in those communities where grading precedes dragging just as has been done by this subscriber.

A RURAL BANK SYSTEM.

During the past week the farmers' co-operative bank movement has been brought to a head by the introduction of a bill in congress by Senator Fletcher, of Florida, for the establishment of a chain of rural banks throughout the country, working in conjunction with a national rural bank, under direct governmental control and supervision. The matter is now squarely up to congress for the first time.

It will be recalled that the act making appropriations for the department of agriculture for the fiscal year ending June 30, 1914, contained a "rider" authorizing the president to appoint a commission of not more than seven members to travel throughout Europe and study "co-operative land mortgage banks, co-operative rural credit unions and similar organizations and institutions devoting their attention to the promotion of agriculture and the betterment of rural conditions." The president appointed Sen. Duncan U. Fletcher, Sen. Thomas P. Gore, Congressman Ralph W. Moss, Mr. Harvie Jordan, Mr. John Lee Coulter, Dr. Kenyon L. Butterfield and Mr. Clarence J. Owens.

This commission returned from Europe a fortnight ago and in a preliminary report, issued during the past week, favored the general plan of the co-operative rural banks of Europe, proposing to issue a much more extended report, together with a letter of recommendation to the governors of the various states, in the near future. In the meantime, the $25,000 which congress appropriated for the necessary clerical hire and office expenses in Washington is to be used to open up headquarters and distribute the commission's literature favorable to the rural co-operative banking plan.

Although Senator Fletcher did not accompany the federal commission to Europe, he is apparently satisfied with the finding of his confreres and is willing to stand sponsor for the bill to provide a similar banking system in this country. The bill which he introduced in the senate last week provides a system of local national rural banks, owned and operated by farmers; a state national rural bank in each state, owned and controlled by the local rural banks as stockholders; and the national rural bank of the United States, to be located in Washington, and to be owned entirely by the state rural banks. To supervise this proposed chain of rural banks there would be created in the treasury department a division of rural banking, under the direction of a rural banking board, to consist of the secretary of the treasury, the secretary of agriculture and the secretary of labor. The division would be under the immediate supervision of a director of rural banking, to be appointed by the president. The main purpose of the banks would be to furnish bonds to farmers on long-term bonds or notes, secured by liens on farms at not exceeding 60 per cent of their assessed value. Loans would be secured first by the local bank, then by a state bank, and last, by the national rural bank of the United States, and they would run from twenty to fifty years. The national rural bank is designed to have a capital and surplus exceeding $100,000,000, while the stock of each local bank would be limited to $2,000,000.

Speaking in the public prints in favor of his bill and the proposed chain of rural banks, Senator Fletcher said:

It is obvious that the only method of furnishing capital for requirements of the farmer is the creation of a long-term first mortgage bond, secured on his land, which bond shall contain a sinking fund provision, so that an amount shall be set aside each year to pay off the bond when it matures. The farmers' loans should run from twenty to fifty years. No bank can loan money for such a length of time. The money must be borrowed from the investing public. Here is where a special system of banks is needed which will be authorized to use their credit in guaranteeing such bonds under restrictions which will reduce the risk of such guarantees to a minimum.

This matter promises to come in for widespread discussion throughout the country generally within the next few years. It will not be universally favored. Financial, economic and agricultural conditions are so different in America from what they are in Europe that there will be those who will oppose any European co-operative system as altogether impractical for adoption in this country, even were it needed. At the same time, there will be those who will maintain, and with good reason, that the farmer should be given every facility for obtaining long-time loans at lower rates than the city man is enabled to obtain money.

Out of this pro and con discussion will come educational good, whether the European plan is found to be feasible for adoption in this country or not. Anything that will make it easier for the farmer to obtain "the sinews of war" is commendable, although it will not do, by any means, to belittle or question the agencies which have contributed so materially to his advancing welfare in the past. This whole subject is too big and too fraught with national success or failure to be settled off hand or without free and full discussion of every feature, both for and against.

CHARCOAL FOR SWINE.

Hogs that are kept under the more or less artificial conditions prevailing upon every farm seem to crave substances which contain little nutriment and which would not seem to be the result of a healthy appetite. But at any rate mineral matter is constantly demanded by hogs of all classes, and if it is not supplied we often see nice green pastures being spoiled by hogs rooting them up to find mineral matter. If this is furnished in the feeding lots it will do as much or more to keep the animals from rooting as hog rings. Mineral matter is required principally for the building up and strengthening of the bones. A considerable amount goes also to purify the blood, the condition of which for good or bad has a great deal to do with the power of the hog to withstand the disease-germs that would attack him. A plentiful supply of mineral matter will often prevent the brood sows from getting "down in the back." Sometimes this ailment is occasioned by kidney worms, but more often it is caused by a lack of mineral matter in the feed, thereby causing the sow to draw upon her own supply in the bones to supply the pigs, and this naturally causes the sow to lose strength and perhaps her back becomes very weak.

This craving or requirement of the hogs for mineral matter is sometimes satisfied by the feeding of coal slack. While it is true that this is not the best corrective of the kind which may be employed, yet if the animal's appetite for it at the start is satisfied there cannot be any danger in feeding all of this material that the hogs will consume. Experienced hog feeders generally prefer charcoal to coal slack, however, that made from corn cobs being considered the best. Cob charcoal is now recognized as a most valuable supplement in the feeding of hogs and the majority of hog feeders provide a regular supply of it for their animals. Charcoal not only furnishes a fair amount of mineral matter, but it is also a preventive of disease, as it has an absorbent property that makes it a cleansing and effective internal antiseptic. It absorbs the foul gases, poisons and germs of disease and keeps the intestines cool, open and healthy, thereby often preventing indigestion when a heavy grain ration is being fed. Charcoal is not a cure for disease, but so far as an absolute remedy for any disease is concerned the most positive "cure" is prevention, and charcoal is a preventive of the first order.

The farmer need not purchase a supply of charcoal, as he can easily make it at home with but little, if any, expense. It is unnecessary to construct a permanent kiln to convert corncobs into charcoal. Simply make a hole in the ground three feet in circumference at the top and three or four feet deep, tapering the sides sufficiently so there will be no danger of its caving in. Then start a slow fire of corncobs in the bottom of the pit, adding more cobs to the fire from time to time at such a rate that the fire will be gradu-

ally drawn to the top of the pit when completely filled, while the whole bottom of the pit will be a mass of partially burned cobs. The cobs will settle somewhat as they char so that a considerable amount of charcoal can be made at one time. After all the cobs have become well burned, cover the pit with a piece of sheet iron or boiler iron secured for the purpose and throw dirt on it about the edges to exclude air. Then leave the mass to smoulder until the fire is exhausted, which will be in a day or so, according to the size of the pit, when the cover may be removed and the charcoal be taken out. If desired a certain amount of wood may be added to the cobs as they are placed in the pit.

The charcoal should be fed to the hogs as often and in such quantities as their condition indicates the need of its use. A teaspoonful of finely powdered charcoal to each animal is about the right proportion where fed regularly with each feed. As good a method as any, however, of feeding the charcoal is to construct a shallow box which is to be kept full of charcoal and placed where it is accessible to the hogs at all times.

IOWA STATE FAIR OPENS.

The fifty-ninth Iowa State Fair opened in Des Moines today, with splendid prospects. Although the anticipated excursion rates on the railroads were not forthcoming (the regular two-cent-a-mile fare being charged) there is every indication of a large attendance. With a billion-dollar rain saving the corn within the last week and experts figuring that the total corn yield for the state will range from 375,000,000 to 400,000,000 bushels, Iowa farmers confront a winter of prosperity and are well content to take a week off and visit the exposition which, in such striking manner, displays the extent and versatility of their welfare to the world.

In our issue for next week we will present the story of the opening days of the fair, while The Homestead of September 4th will contain the full story and the final awards, together with pictures of the prize-winning animals in all classes and departments. The Iowa State Fair has become such an institution of learning, as well as of enjoyment for the whole family, that a report of the fair in its entirety, such as the next two issues of The Homestead will contain, will be a veritable text-book on agricultural prosperity in the richest and greatest state of the union.

We repeat our invitation for all Homestead friends to make the down-town publishing plant (at West Third and Locust streets) and The Homestead booth on the main street of the fair grounds their resting and meeting place. Every visitor will be given a hearty welcome and provided with the accommodations necessary for the comfortable enjoyment of a visit to the capital city and to the fair.

Austria not only sells timber but timber products from its forest lands, and disposes of about 1,500,000 railway ties a year. There is no provision in the United States by which the national forests can dispose of manufactured lumber, though the policy of selling standing timber is well established.

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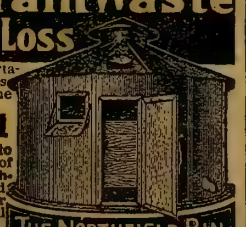

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Hints on Filling the Silo

Subscribers Who Have Had Years of Experience in Filling Silos Give Details Pertaining to this Important Task.

W. I. RAYMOND, Madison county, Iowa:—In filling the silo there is a right time to get the best results. So be ready. Have the cutter on hand early if a new one is to be purchased, or overhauled, sharpened and adjusted, if the old one is to be used. See that the binder is in good condition. In fact, be ready to cut and fill when the corn is exactly right. This stage is when the ears are mostly dented so that the advanced ones will shell when the knives strike them and the later ones will be in the milk or roasting stage. Better be on the side of overripe, however, and add water (of which I will speak later) than to cut too green.

Cutting too green means a loss of nutrients which you may save by cutting later. It means a development of too much acid. It means a washy feed, which is not desirable. If the ears are at the point of development I speak of above and the stalks and leaves are green with the exception of the lower leaves extending perhaps to the ear, you will have sap enough in the plant to make the silage, provided it is cut fine enough and tramped close enough to exclude all the air.

We find that with an average-size cutter (one which will put away about ten or twelve tons an hour) you will need as to crew, if the haul is near the silo, five or six teams with driver, low wagon and flat racks. Each man throws on his own load, throwing it as high as convenient, which will make load enough, for it is heavy material to handle. Have the bundles small as the binder will make them. Two men should feed the cutter, each feeding alternate loads. Have two or three men in the silo to level and tramp, being particular to keep the feed higher next to the wall and extra well tramped at that point so the silage will not tend to settle away from the wall and thus let the air go down from the top and spoil the silage the same as if it went in through the wall. An engineer and water hauler finish the crew with the exception of the man who runs the binder. This size crew and cutter with a twelve to fifteen horse-power engine, steam, will put away about 100 to 125 tons of ensilage in a day or fill a fourteen to sixteen by thirty-foot silo in a day if ten hours' time is put in.

The corn should be cut with a binder, which should start a good half day ahead of the cutter so as to have four or five acres cut ahead, then it the teams gain on the binder they are not apt to catch it until the silo is filled. The corn does not wilt in the half day enough to hurt.

Should the corn be overripe or frosted before filling you will need another man to haul water for the silage. The best way to apply it I have found is this: Fix a barrel elevated about two feet from the ground. Take eight or ten feet of inch or inch and a half hose and syphon the water from the barrel into the blow case of the cutter. You will find it will go up very readily and from the force of the blast will become incorporated into the silage and through it so that it looks and is very much like silage made from green corn. Run in a stream from the size of a lead pencil up to three quarters of an inch, according to how dry the corn is. We have made good silage from shock corn which was frosted, cut and shocked at once and ensiloed two weeks later.

If you shuck the last two or three loads you will lose by rotting on the top only the fodder, which would be a loss anyhow if left in the field. Go to the top for ten days after filling and tramp the surface well in order to hasten heating and decay on top. Thus the air will not penetrate and spoil the feed to a depth exceeding four to five inches. When opening the silo, if you have left the ears on, take the spoiled top off and spread it in your pasture with the manure spreader. The hogs will eat all the grain out leaving the refuse fodder as manure.

If you purchase a new cutter, buy one (other things equal) with the larger throat. Silo cutters are mostly all built outside of Iowa where the ears do not grow so large and we find some cutters do not let the bundle pass in readily when it comes to the ears. Thus you will see how the larger-throated machine will be the most desirable. Have the binder make small bundles as possible, as they feed easier for the reason explained above, and are still heavy enough to handle. Feed into the cutter butts first with the bundles lapped a little. With a steady stream of bundles going into the machine it feeds easier, is easier on the machine and puts the feed away faster. Do not cut the bands. The twine is not injurious to the feed, nor the stock, even should they eat it.

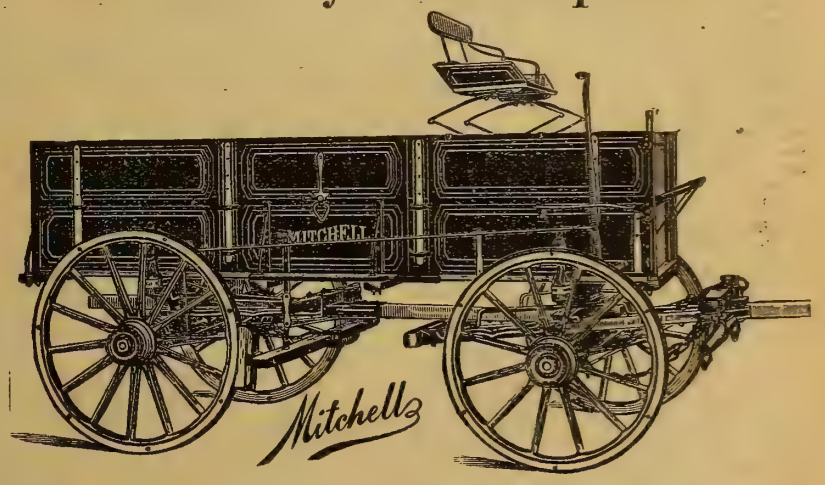
Following the plan outlined above for six years, owning the cutter, but hiring the engine and binder, I have found it costs me not to exceed an average of sixty-five cents a ton to fill our silo.

J. LEO AHART, Crawford, county, Iowa:—After having had some experience with a silo, and, consequently, with the filling of a silo, we find that the operation does not require extraordinary skill and that it should not be the cause of any worry on the part of the owner of a silo, or a prospective owner. Our silo is one of ordinary capacity—120 tons—and with everything running as it should, it takes about two days to fill it. A reliable cutter, plenty of help, and sufficient power are the main things necessary to do the job properly and with dispatch. It may be mentioned that filling a silo does not, for any reason, require any undue haste, at least not any more than threshing or other similar jobs. We find that it takes six teams where the cornfield is close to the silo and eight teams will do it where the corn is eighty rods or a little more away from the cutter. We use a thresher engine to run the cutter and have sufficient surplus power. When we think the corn is about right or when the kernels are partly glazed and the first two or three (lower) leaves are dry, we proceed as follows:

One-half day before starting to fill the silo, we start a corn binder in the field to be turned into ensilage. The bundle carrier is taken off and the binder adjusted to make small bundles, so they will be lighter and thus more easily handled. The binder is started a half day before so that it will be able to keep ahead of the wagons, as the cutter will take the corn faster than one binder can cut the corn. Common hay racks are used to haul in the corn. Low-wheeled wagons are much better than high-wheeled ones for this purpose. In either case, the sides are taken from the racks. Each man loads his own rack, letting his team follow the stubble row, laying the bundles all one way so they will unload easily and quickly. There is only one man at the cutter and he does the feeding. The cutter we use is very simple, having the cutting knives attached to the blower wheel and the cutting and elevating is done by the same mechanism. We use a flexible spout inside the silo to distribute the ensilage evenly. It is twelve feet in length and was made for us by the local tinsmith. It is in two-foot sections which are detached as the silo is filled. This is facilitated by snaps and rings on each section. The tube is controlled by a rope fastened to the lower section until it can be taken ahold of. We have two men in the silo to do the tramping. This is necessary to make good silage and to get the full benefit of the silo's capacity. The edge, especially, must be tramped well. When within six inches or so of the top we run enough wet straw through the cutter to finish filling the silo. For a sixteen-foot silo, a good big hayrack load will be enough for this. About so much of the top

(Continued on page 10.)

Are you prepared to haul your crops?



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FARM FURROWS

TURNED BY A PRACTICAL FARMER

These are the days when Old Sol and the crop killer both shine. The daily reports from such a large area of the corn belt must almost make the pessimist feel good.

Folks are again talking about "blessings in disguise." They say the present drouth is causing many farmers to secure a more permanent water supply, thus they secure a blessing they otherwise would not have. How about the man who has dug a dozen wells and found no water?

Hay is going to be hay this year, so cut up plenty of roughness to take its place. Plenty of corn fodder is a good thing to have any time and more especially when high-priced hay may be saved by its use.

Anticipate your wants in the way of corn binder repairs. Remember that the boxing that is worn may need replacing before the end of the harvest and certainly before the start of another harvest, so get the new boxing and have it ready the instant it is wanted. When possible, I like to make repairs on machinery before a breakdown comes.

The corn shock is best tied around the top as soon as it is made, not after it has time to settle crooked or the winds have blown down some of the outer bundles. I find the shock that is tied rather close to the top keeps best—the top hasn't a chance to fall apart then.

The children should be kept away from the silo filling machinery when it is in use. I have seen mere children playing around flapping belts and rapidly revolving wheels. The wonder is there are no more accidents than there are.

The market page is the popular part of the daily paper these days. A neighbor's mail box is near mine, and I notice when he comes for his mail he reads the markets before he leaves the box. As the saying is, "Every man is up on his toes."

The dry summer is proving hard on the vine crop. I am afraid my Yankee appetite for pumpkin pies must be satisfied for the year to come out of cans instead of from pumpkins raised around the old stack yard.

I believe in the deep well, the one so deep surface drouths do not affect it. Of course when deep water is unfit for use, then the deep well is not worth trying for, but where deep water is good it is the only water that can be depended upon in dry seasons.

Heat expands and cold contracts. Heat expands the air of the auto tire, and those who carry high pressure in hot weather, over hot roads, are quite likely to have blow-outs through casings that would otherwise hold. Remember to cut down about ten pounds on the air carried in tires this hot weather.

It is not so much a question of having to feed milk cows that are on pasture, but a question of its paying to do so. It most certainly pays when the grass is so short there is a shrink in the milk, and very often it pays to feed before the shrink is noticeably apparent, as it is easier to keep up a flow of milk than it is to bring it up after it has gone down.

When pastures are short and brown like they were a couple of weeks ago it becomes necessary to furnish the cows with green feed in order to keep the milk flow "flowing." For this purpose there is nothing better than a nearby field of growing corn. If this corn is cut and thrown over the fence into the pasture the fence must be a real fence or the cattle will soon be in the field helping themselves.

Trying to keep too many cows has discouraged more dairymen than any other cause. With our present knowledge of the corn plant the feed problem is practically solved, but the labor question is still with us. No man feels satisfied if he must work like a galley slave "from early morn till close of day." Don't forget that one cow well kept will yield a profit where two cows will be quite liable to be kept at a loss.

There is trouble ahead for the owner of a stave silo who forgets to loosen the hoops on the silo when it is filled. The swelling and shrinking of the lumber is about the only objection there is to a stave silo.

No matter what method is used in filling the silo there is always some waste at the top. The one who learns the best way of overcoming this will have something to tell that "book farmers" would like to hear or read.

The canning season is with us with all its sweetness. Let us enjoy it to the limit and see that enough fruit is put up in glass jars to make the memory linger all winter. The tin variety of preserved fruit may be good, but it is not quite good enough for the farmer.

See that the binder is well oiled and the knotter greased to prevent rusting before leaving it for its long and often ruinous "rest" until another harvest comes.

We have a very good weed law, but it is doubtful if it will kill many weeds. To the man who is a farmer from choice every weed is an outlaw and is treated accordingly, law or no law. To the other kind of farmer all weeds are flowers and the enforcement of the weed law means a lawsuit.

The race that excites the most interest at fair time is the annual stunt between Jack Frost and King Corn. Both are in training now and their race will be as interesting as ever.

DISTRIBUTING IMPROVED GRAINS.

The Iowa Agricultural Experiment Association has already done much to interest farmers in the plan of carrying on investigational work for themselves. During the present year nearly a thousand farmers are conducting experimental work on their own farms and it is the purpose of the association to greatly increase that number during the coming year.

Prof. John Buchanan, director of the experiments, now announces that he has two superior varieties of winter wheat ready for distribution. He proposes to send one and one-half bushels of one variety only to each experimenter, upon the receipt of $1.75 in payment for same. The only condition imposed by Professor Buchanan is that this amount of wheat must be sown on one acre and adjoining it a similar area must be seeded with the variety that is grown in the locality.

Fearing that the supply available will not be sufficient to meet the demand, Professor Buchanan has outlined another experiment which requires the use of but five pounds each of two varieties of winter wheat. These are to be sown on plots one-twentieth of an acre in size and side by side with them there must be seeded the regular home-grown variety. For this experiment no charge will be made for the seed.

We believe that every man who will painstakingly carry out either of these experiments will be well repaid for his trouble and may reasonably expect to obtain a variety of wheat that will excel in quality and in yielding ability the kind that is now being grown. For further information write Prof. John Buchanan, Agricultural College, Ames, Iowa.

Ask your neighbor to subscribe for The Homestead.

Imperial

$1650
—buys extraordinary value in IMPERIAL "34"!

In purchasing your automobile you are out to get the best motor car value that your money will buy. You want the highest efficiency, the greatest power, the best comfort and the lowest possible upkeep in the car you purchase.

IMPERIAL "34" is, therefore, the car you want, because nowhere for the price — $1650 — can you buy equivalent motor car quality. For that reason hundreds of progressive farmers, who are the most critical buyers, have selected it.

We do not offer you a cheap car, cheaply built—one that is short-lived and lacks power and durability. Imperial "34" is a moderate-priced car but you will find that every cent you pay for it is built right *into it.* It will be giving service when lower priced cars have gone to the scrap pile

Your Money Buys—

A simple, accessible motor of 4¾ inch bore and 5¼ inch stroke—one that will take the steepest hills in your country and plough easily through the sandiest and roughest roads.

A Unit Power Plant—combining clutch transmission, motor and control levers. This keeps all working parts in perfect alignment, eliminates dangerous friction and keeps the oil in and the dirt out.

Control Levers—right over transmission. No complicated parts to get out of order.

Seat Springs, Cushions and Upholstery—the kind that you find only in the very high priced cars. You *sink right into* an Imperial seat with the same comfort you find in your big, fire-side chair.

118 inch Wheel Base—making it a long, graceful, attractive car.

A Big, Five Passenger Body—built to make it a comfortable family car.

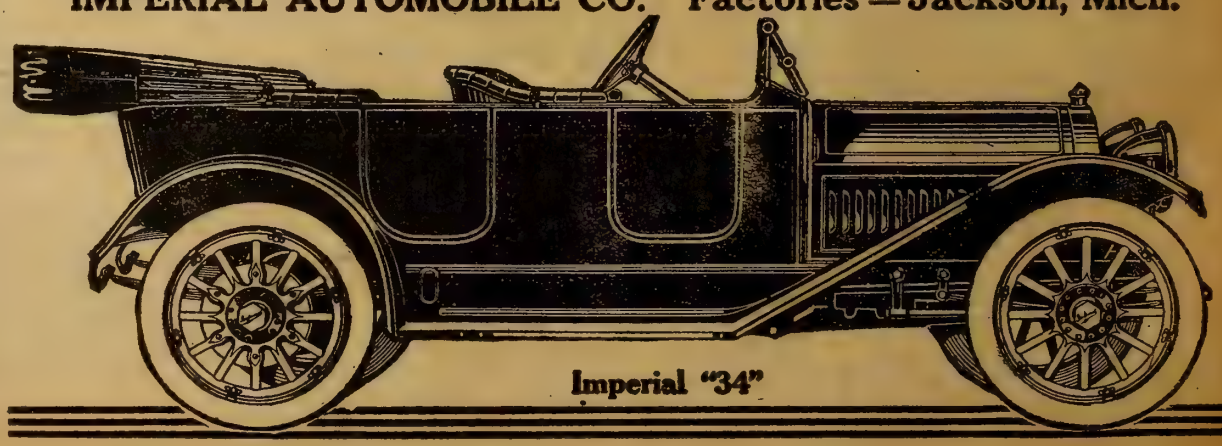
Electric Self Starting and Lighting System that is positive, simple and fool proof. It will *always* start your motor. You can depend on it.

See Them At the Fair

Visit the Imperial booth at the Iowa State Fair and see for yourself the merits of our cars. A courteous demonstrator will point out just why they are *"honest cars selling at honest prices."*

Don't select your car until you read our 1914 Catalog. Write for *your* copy today. It contains specifications for Imperial "34" and other cars that comprise our line. We will send the catalog immediately and see that you meet our dealer in your locality.

IMPERIAL AUTOMOBILE CO. Factories — Jackson, Mich.



Imperial "34"

CURRENT EVENTS

ANOTHER popular idol seems to have fallen. Gov. William Sulzer, of New York, has waged many a political campaign on the issue of friendship for "the common people." He has long been especially strong in the poorer quarters of New York City, where his homely brand of democracy has made a strong appeal. It has been his lifelong ambition to serve as governor of New York state. When he was elected a year ago the nation looked for an administration that would be remarkable for reform and political purity. The governor started out well. He demanded of the legislature an act giving the people of the state the right to name their candidates by primary ballot. When the legislature refused to enact a primary law Governor Sulzer called a special session and enlisted the aid of progressives and republicans in a non-partisan campaign for ballot reform. About this time, he was thrust into the limelight through a breach of promise suit brought by a young woman, who averred that the governor had not kept his word with her. Last week came the culmination of his personal troubles when the legislative investigating committee reported that the governor had falsified his sworn campaign expenses, that he had collected several thousand dollars more than he had admitted and that he had used public campaign contributions for speculating in stocks on Wall street for his own enrichment. So serious are the charges that the legislature voted his impeachment. His usefulness as a public servant would seem to be at an end, as a result of the public loss of confidence in his personal integrity. Had Governor Sulzer made good at Albany he might have been called to still higher things by his party.

MEXICAN affairs have been quieter during the past week, although the situation is still grave. Ex-Gov. John Lind, of Minnesota, the special representative of President Wilson, arrived in Mexico City in safety and was unofficially received by the minister of foreign affairs, notwithstanding the earlier announcement of President Huerta that his presence in the country was not desired. Several days were spent in consultation with American residents in the country, in an attempt to learn exact conditions and what policy would be best to pursue. In the meantime Ambassador Wilson, whose resignation has been accepted to take effect October 14th, continued his policy of embarrassing the Wilson administration and attempting to force recognition of Huerta by giving out public interviews criticising his chiefs and even endeavoring to make trouble with Great Britain and other big powers. It is quite apparent that President Wilson will never consent to the recognition of Huerta, unless the latter becomes the duly elected president. Whether the president will be successful in his hopes of peaceful mediation remains to be seen, but the United States has taken a firm stand on the issue of moral right and wrong in Mexico, a stand from which it cannot recede with either dignity or equity.

A NATION-WIDE movement to interest the American rural population along financial, business and social lines, as a means to strengthen the position of the farmers, increase their income and their production and to lower the cost of foodstuffs to the consumers is planned by the American commission on agricultural co-operation which recently returned from a summer spent in investigating farming conditions in Europe. Rural organization and co-operative banking systems, similar to the plans successfully tried in Europe, are depended upon for success in this country. In this respect the commission says: "The commission is deeply impressed with the vital importance of a thoroughly organized and united rural population. In this respect the countries of Europe offer a lesson which may not long be disregarded in America without serious consequences. The agricultural interests of most of the European countries visited by the commission are organized along one or more of the following lines: Credit, production, distribution and social organization for the betterment of country life. Organizations for the provision of credit facilities for European farmers follow the natural division into short-time personal credit and long-time land mortgage credit. The organizations for the provision of personal credit facilities are as highly developed as are the systems of commercial banking. The prevailing rate of interest paid by the farmers for short-time loans is from 4 to 5½ per cent. The terms offered European farmers are generally better designed to meet the peculiar requirements of agriculturists than are the terms obtainable today by the American farmers." A working plan will be outlined and submitted to governors of various states for whatever legislation may be necessary for the experiment.

IOWA SHORT-HORN BREEDERS' MEETING.

A meeting of the Iowa Short-horn Breeders' Association will be held on the Iowa State Fair grounds, Des Moines, Tuesday evening, August 26th. Several important business matters are to be presented at that time while in addition the officers of the association are prepared to receive suggestions from the members concerning the matter of making the association more useful to breeders. The exact place of meeting has not yet been fixed, but this information will be easily acquired on the day of the meeting.

No part of the fifty million dollar fund for moving the crops will be allotted to "wild cat" banks that indulge in speculation.

John Deere Spreader

The Spreader with the Beater on the Axle

The Low Down Spreader With The Big Drive Wheels

The main reason why the demand for John Deere Spreaders has been greater than those interested in the spreader business thought possible, is because the John Deere Spreader is built the way you would build a manure spreader, to suit your own requirements.

What You Want

Here's your chance to get exactly what you want in a manure spreader.

One that is easy to load, light for your horses, free from constant repairing, and one that will last as long as you think it ought to.

What You Get

With a John Deere Spreader you get a low down Spreader in which the advantage of big drive wheels is not sacrificed for the low down feature.

You get a spreader that is easy for your horses because it has these big drive wheels together with roller bearings, few parts, the fact that the center of the load is comparatively near the horses and the load evenly distributed over all four wheels.

There are no clutches to get out of order, no chains to give trouble, no adjustments necessary.

Built with a steel frame, securely braced like modern railway bridges, it is very strong and durable.

Why You Get These Things

Mounting the beater on the axle makes all these things possible in the John Deere Spreader.

It does away with some two hundred trouble-giving parts. It makes the spreader low down. It permits the use of big drive wheels. It does away with clutches, chains and adjustments. It puts all the strain and stress of spreader on the rear axle, where it belongs, not on the sides and frame of the spreader.

It does a lot of other good things, too. They are fully illustrated and described in our new spreader book.

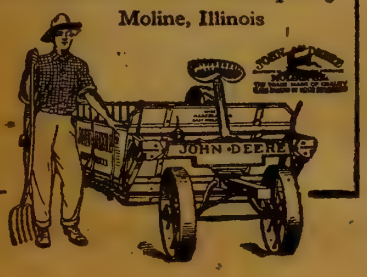
Get This Spreader Book

It tells how the John Deere Spreader is made and why it is made that way. It contains illustrations of the working parts and colored pictures of the John Deere Spreader in the field. It also has valuable information in regard to storing, handling and applying manure to the land.

Get one of these books free, by asking us for our spreader book, Y 27

John Deere Plow Company

Moline, Illinois



Symbols of Protection

Ancient Egyptians carved over their doorways and upon their temple walls the symbol of supernatural protection; a winged disk. It typified the light and power of the sun, brought down from on high by the wings of a bird.

Mediæval Europe, in a more practical manner, sought protection behind the solid masonry of castle walls.

In America we have approached the ideal of the Egyptians. Franklin drew electricity from the clouds and Bell harnessed it to the telephone.

Today the telephone is a means of protection more potent than the sun disk fetish and more practical than castle walls.

The Bell System has carried the telephone wires everywhere throughout the land, so that all the people are bound together for the safety and freedom of each.

This telephone protection, with electric speed, reaches the most isolated homes. Such ease of communication makes us a homogeneous people and thus fosters and protects our national ideals and political rights.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES

One Policy *One System* *Universal Service*

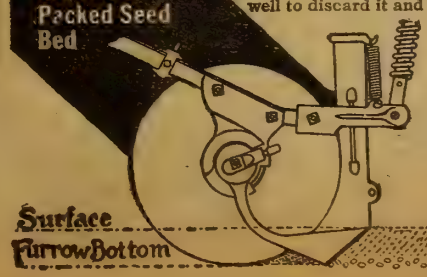
The Only Drill With a Perfect Furrow Opener

HERE'S the drill that will greatly increase your crops and profits, just as it has done for hundreds of other progressive farmers. It is equipped with our wonderful DISC SHOE FURROW OPENER, the only one that combines every advantage of the single disc for cutting trash and penetrating hard ground, with every advantage of the shoe for forming the furrow and depositing the grain. It's the only furrow opener that packs the seed bed after the disc has opened the furrow. The shoe carries the seed to the bottom of the packed furrow. Every seed counts. Every seed is sown at a proper, even depth. So every stalk comes up and ripens evenly and the grain grades up best. The shoe prevents any dirt from falling into the furrow until after the seed is deposited.

The New Peoria Drill

Is the only one equipped with this Disc Shoe Furrow Opener. So the New Peoria is the drill that is sure to increase your crops and save your seed. It is the drill that insures every seed the three essential requirements for successfully growing small grain—Heat, Air and Moisture. Even if you have a new drill of some other make, it will pay you well to discard it and buy a New Peoria.

Every Seed Laid in a Packed Seed Bed

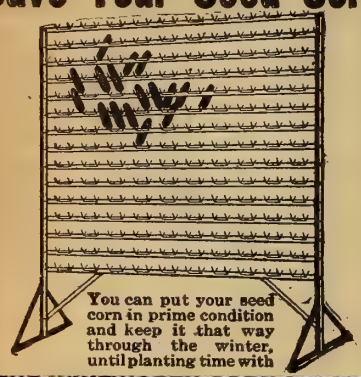


Do not think that the wonderful Disc Shoe Furrow Opener is the only advantage of the New Peoria Drill. Every other part is just as superior. Let us prove it. You take no chances on the New Peoria. Every drill sold on an absolute guarantee. Let us send you a booklet and all the facts and figures, also opinions of men who know. Send your name and address on a postal now. It's worth money for you to know all the details.

Peoria Drill & Seeder Co.

2435 North Perry St., Peoria, Illinois

Save Your Seed Corn



You can put your seed corn in prime condition and keep it that way through the winter, until planting time with

THE WHITWORTH CORN DRYER

Dries every kernel thoroughly; no moulding. Will hold 600 ears, each one separately and rigidly in its place. You see them all at a glance. Rack is 6 feet high, 5 feet wide. Frame of heavy steel bars; pins heavy galvanized steel wire.

Price only $6.75—We have a special Combination Offer that will interest you. Write us about it.

Champion Mfg. Co., P. O. Box 4358, Cedar Rapids, Ia.

Ground Limestone Will Increase the Fertility of Your Soil

RECOMMENDED by Agricultural Experiment Stations. Destroys acidity and largely increases crop production. Cheaper and easier to apply than burnt lime, and can be stored without danger or loss. If you will send us your name and address we will send you sample and quote you prices.

DOLESE BROS. CO.

Dept. B. Buffalo, Iowa

ALFALFA

SOW ONLY

ROYAL QUALITY, KANSAS GROWN

Non-Irrigated New Crop

SEED

OVER 99 PER CENT PURE.

If your dealer does not handle it, write us for Samples and Prices.

RUDY-PATRICK SEED CO.,

1311 W. Eighth Street, Kansas City, Mo.

BUTLER STEEL Grain Bin

Corrugated. Can't Cave In. Rat-Proof. Fire-Proof.

Can be used for store house. Capacity increased by additional sections. Keeps grain perfectly. Large door and removable shoveling board. Ask for booklet showing letters from satisfied users.

BUTLER MANUFACTURING CO.

1210 W. Tenth Street, Kansas City, Mo.

NEW CROP SEEDS

ALFALFA
TIMOTHY
BLUE GRASS

Write today for samples and special prices. "Missouri Brand" seeds the best obtainable.

Missouri Seed Co., Box 9, Kansas City, Mo.

Premium Seed Wheat

FIRST at Iowa State Fair last year from a field that made 54 bu. per acre and with a 44 bu. yield this year, this strain of Turkey Red stands alone. Recleaned seed in bags f. o. b. Ames at $1.25 per bu. while it lasts. Send check or draft with order. Reference any bank in Ames.

L. J. BAIRD - - AMES, IOWA.

WINTER SEED WHEAT

KHARKOV YIELDS 50 TO 70 BU. PER ACRE

Yield guaranteed. Write for catalog and circular, describing the most wonderful variety ever introduced in the U. S. BERRY'S IMPROVED KHARKOV. Just imported direct from Russia. Has no equal. Largest yielder known and withstands the severest winters. Have improved Turkey Red, other varieties and Mammoth White Rye. Large stock Alfalfa, Timothy and all Grass Seed. Write for circular, free samples, special low prices.

A. A. Berry Seed Co., Box 103 Clarinda, Iowa

BINDER Attachment with Corn Harvester cuts and throws in piles on harvester or in windrows. Man and horse cuts and shocks equal with a Corn Binder. Sold in every state. Price $20 with fodder binder. J. D. Borne, Haswell, Colo., writes, "Your corn harvester is all you claim for it; cut, tied and shocked 65 acres milo, cane and corn last year." Testimonials and catalog free, showing picture of harvester.

PROGRESS MFG. CO., Dept. 90, SALINA, KANSAS

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit $1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

SCHOOL ROAD—BREACH OF CONTRACT.

An Iowa Subscriber.—Two years ago a new road was opened on a section line through my land by the school board. The agreement between us was that I was to give free right of way, providing the school board would drain a slough through which the road would pass. This agreement was written on a sheet of paper and pinned to the petition when it was signed. The road was graded through the slough, and has been traveled for two years, but nothing has been done towards draining the slough. The school board refuses to do anything and the county board of supervisors will have nothing to do with it. (1) Can I close the road if the slough is not drained? (2) What can I lawfully do about the matter?

Answer.—(1) You cannot close the road. (2) You can bring suit against the school corporation and recover as damages the amount required to drain the slough.

BOND TO KEEP THE PEACE.

A Subscriber, ——, Ohio.—A man who lives in a small Iowa town, and is divorced from his wife, goes about the place telling people that he intends to kill her, and she hears of it and is fearful of danger from him. What can be done about it?

Answer.—The wife can make complaint to a justice of the peace, and have her husband arrested and made to give bond to keep the peace generally, and towards her particularly.

OPENING ROAD—REMOVAL OF FENCE.

Mr. Joseph Howle, North Crandon, Wis.—The town is about to build a public road across my land on the quarter-section line. The land is fenced. When can the authorities move the fence?

Answer.—The authorities cannot require the fence to be moved between the first day of April and the first day of November. At any other time the town board can give you written notice to move the fence within a reasonable time not less than thirty days from the time of giving notice, and if you do not comply with such notice the town board may cause the fence to be removed at your expense.

DRAIN ACROSS RIGHT OF WAY.

Mr. D. B. Cummins, Ute, Iowa.—In order to tile drain my land I will have to extend the tile drain across the right of way of the C., M. & St. P. R. R. company. The company claims that I must sign a contract with it before I can extend my drain across its right of way. Is there any statute law or court decision in Iowa which requires me to sign a contract with a railroad company in order to cross its right of way with a tile drain?

Answer.—Under the law of the Twentieth General Assembly, section 1955 Iowa code, a land owner was authorized to notify the railroad company to construct a drain across its right of way and on its failure to do so the owner could do it at the company's expense, but this law was declared unconstitutional by the Supreme Court in the case of Fleming vs. Hull, et al., 73 Iowa Report, page 598. Under a law passed in 1909, now in force, in order to drain across a railroad right of way, you must file an application therefor with the township clerk setting forth a description of the right of way to be crossed, and of the proposed drain, and thereupon the clerk will fix the time for hearing the same before the township board of trustees and notify the railroad company. The trustees will determine the right to cross and fix the compensation to be paid by you to the railroad company, and also cost of construction, and you must deposit amounts thereof with the clerk. The railroad company may then construct the crossing, and if it fails to do so you can do so, and have the construction cost returned to you. No contract is required by law.

PROPERTY OF HUSBAND AND WIFE.

A Subscriber, Maxwell, Iowa.—A and B are husband and wife and have no children. They own real estate in Iowa, the title to which is in the name of the husband. (1) If the wife should die first how would this property be divided? (2) They also own personal property which is in the names of both. How would this property be divided if the wife should die first?

Answer.—(1) The real estate would not be divided at all. The title being in the name of the husband he would continue to own it after the death of his wife. (2) The husband would retain one-half of the personal property, in his own right and be entitled to one half of the other half, as heir to his wife. In short, three fourths of the personal property would go to the surviving husband, and the remaining fourth would go to the heirs of the wife, her parents, if living, or if her parents are dead, her brothers and sisters.

Under a new law passed by the Wisconsin legislature the owners or occupants of any land can hunt and kill rabbits on their property at any time and may also hunt and kill squirrels on their land during the open season without having to procure a license.

Let the Horses Do the Work

IN all the operations necessary to the raising of corn, from the preparation of the seed bed in the spring to the planting and cultivating, you use power-drawn machines. Why stop a reasonable method and go back fifty years or more at harvest time? Why take the horses off the work just when the hardest job is to be done? This year buy a corn binder and let the horses do all of the work incident to the corn crop.

There is not alone the saving in work to be considered; there are other important savings resulting from the purchase and use of an I H C corn binder. Properly used it saves the one-third of your corn crop which the old method wasted. Each corn binder saves the wages of four or five extra men or saves about four-fifths of the time spent in harvesting the corn by hand. No matter how you look at it, you will make money by investing in an

I H C Corn Binder

Corn is hard to cut, but the practical design and strong construction of I H C corn binders make them last and do good work for years in all kinds of corn, either short or tall, standing, down or tangled. When cut at the right time and cured in the shock the whole corn crop, ears, stalks and leaves are ready to be turned to profit by being run through an

I H C Husker and Shredder

Deering, McCormick or Plano

In years when the hay crop is short and prices high, a plentiful supply of nutritious stover enables you to bale your hay and sell it in the best market without detriment to your stock. Shredded fodder is eagerly eaten by the stock and is especially good winter feed, because of the large amount of heat-producing materials it contains. It is better to use corn stover in the barn than to waste it in the field; especially, since it comes to you as clear profit and at practically no expense.

I H C local dealers will assist you in deciding on the right machines for you to buy and they will give you cheerful and willing service, both before you buy and afterward, as long as your machine lasts. Get catalogues and full particulars from them or, write the

International Harvester Company of America
(Incorporated)
Chicago U S A

TURKEY HARD

Seed Wheat A highly germinative dry weather-resisting, hard winter wheat. Withstands winter killing better than any other winter variety.

Every peck of my Turkey Hard re-cleaned and rigidly tested for heavy stooling and germinating properties.

Sells For 3c to 5c Per Bushel More

in the open market, because both the millers and the bakers know it for the great extra-gluten winter wheat they want. Makes better flour and more bread. Through my friendship with, and knowledge of, the growers of Turkey Hard right here in the American homeland of this famous strain, I am able to offer you the most select and true-to-name "Turkey Hard" seed that can be procured.

Full information on request. Get in line before my supply of Turkey Hard is exhausted. Write me today—now.

McCULLOUGH The Seed Wheat Man
214 Sedgwick Bldg. - Wichita, Kansas

Do Your Own Shredding With a Rosenthal

No. 1 Cyclone

SOLD ON TRIAL

Corn Husker and Shredder

Made for farmer's own use; only 6 to 8 H. P. required. We also make three larger sizes requiring 10 to 20 H.P. 18 years in the field. Shredded corn fodder is natural food. Will keep cattle in healthful condition. Write for catalog. State how many horse power you use.

ROSENTHAL CORN HUSKER CO., Box 30, Milwaukee, Wis.
We also make Rosenthal Feed Cutters and Silo Fillers

NO. 42 TURKEY RED SEED WHEAT

ABSOLUTELY the heaviest yielding strain of Turkey Red wheat known. Fine berries of good size and color. This variety our specialty. Write for illustrated booklet.

FRANK J. RIST HUMBOLDT, NEB.

TURKEY RED WINTER WHEAT SEED

SUREST cropper, highest yielder, none better for quality. Try a patch this fall from our seed. We hold the highest record in show ring for Iowa. Pure, recleaned, plump seed, best grain sacks free at $1.10 per bushel. Ask for sample.

JNO. JUSTICE - - - ANKENY, IOWA

STRICTLY NEW CROP

RECLEANED TIMOTHY SEED FOR SALE

WE are located in the heart of the southern Iowa seed belt. Why not buy direct? Write for samples and prices on timothy and alfalfa seed.

BOSSERMAN SEED CO., MURRAY, IOWA

South Dakota Potatoes

For sale in car lots, best potatoes grown. Watertown Potato Co., Watertown, S. D.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

REPAIRING THE FARM AUTO.

To the Editor of The Homestead:

I have been closely reading the articles written by Mr. Henry Hatch and others, "Blacksmiths and Automobiles," and must say Mr. Hatch surely has the correct opinion of the matter. While the blacksmith is the farmer's closest friend, works hard, earns his money and the farmer could not get along without him, I like to see him prosper, as I was at one time a blacksmith myself.

Since I graduated from a course of automobile engineering I can reflect on the past and see where I made serious mistakes tinkering on motorcars and gasoline engines before having the required knowledge.

In past years I have been called to straighten out dozens of jobs when blacksmiths have tried and failed, often leaving things in several dollars worse shape than when he started.

In the first place not one out of fifty blacksmiths have made a study of the automobile, so he is not capable of the work. Again, he does not have the proper tools and machinery to work with.

Every blacksmith who intends to do automobile work should go to school and learn it, and not begin working on cars at other people's expense. I have seen several magnets entirely demagnetized through rough handling and several expensive platinum interrupter points burnt off through improper setting or smoothing. Many of these small parts require a setting to one-hundredth of an inch, and a glass polish. How many blacksmiths have the ability and tools to successfully handle a job of this kind? Yet there are several willing to try at the owner's expense. There are dozens of carburetors thrown out of adjustment, expensive transmission and differential gears ruined and dozens of other things I could recall come back to the manufacturer continually as the result of inexperienced workmanship of some country blacksmith or other untrained workman.

In regard to making springs will say that after years of automobile experience I find that valve springs, etc., should not be made by anyone but special manufacturers who practice making them, as they work too rapidly and under too great a strain to be made by anyone who does not thoroughly understand their construction and the breaking of a spring may result in other serious mishap such as carburetor explosion, etc., so they should always be ordered from the factory. Again he speaks of various kinds of steel. I have never yet seen the blacksmith who could correctly analyze the various kinds of carbon, nickel, chronium, vanadium, uranium and tungsten steel used in automobile crankshafts, magnetos, transmissions, different drive gears and almost countless other places throughout the automobile.

When your watch gets out of order you would not think of taking it to the blacksmith for repairs and the automobile has many settings made to the same standard of accuracy of a watch.

I could name hundreds of other reasons why a blacksmith without training should not be allowed to tinker with an expensive automobile, but I think I have explained enough, and after years of automobile engineering experience, my advice to the reading public is: Place your automobile repairing with the best machinist obtainable. W. H. Ruther.

ECONOMY IN FEEDING HOGS.

To the Editor of The Homestead:

As a general thing, on the average farm too much time is used in feeding and caring for hogs. Unnecessarily slow and tedious methods are employed, whereas shorter cuts in feeding than those practiced at present would produce equally good results either by the use of horse labor, by the rearrangement of the feeding yards and troughs, by the more careful use of pasture and crops that may be harvested by the hogs, and thus reduce the number of hours required to care for the animals and at the same time save labor.

Where one is feeding many hogs it frequently is a labor saver to use a horse in transporting swill, water and feed directly from tank and bin to the pens, yards or field in which the animals are kept. This is much easier on the feeder and is more quickly done. Wide-alley hog houses permit of the one-horse truck, not alone for hauling feed in, but for hauling out the manure and thereby keeping the surroundings clean and sanitary.

There are few who have taken the trouble to separate the shoats according to size so that they could be fed more easily and satisfactorily. Many prefer to feed hogs of all sizes together, either continuing the feeding until all are full or else wasting time chasing the larger ones away until the smaller ones are fed. Feeding all the animals will hold is a wasteful method, while beating up the big ones while the smaller eat is not conducive to gains in either the old or young. In both cases too much time is consumed and without good results. It is always well in feeding hogs to sort according to size and limit the number to twenty or thirty in a feeding place. A sufficient number of feed troughs should be provided so that all the hogs in each feeding place can eat at once. The troughs should be located under swinging panels so that the hogs can all be shut out until the slop has been placed in the trough. This saves slop and labor and the pigs do better. Much more time is gained in feeding when not annoyed by the hogs while slopping than when feeding in the ordinary manner. Subscriber.

Wood Shingles Won't DO!

In this **20th Century AGE OF STEEL**, wood shingles are fast disappearing. They cost too much; they rot out too quickly; too much trouble to put on; too apt to catch fire. That's why 100,000 men have come to put these beautiful **Edwards STEEL** Shingles on their buildings.

Edwards Steel Shingles **never** burn nor rot. Come in big clusters of 100 or more, which makes them ten times as easy to put on as **wood** shingles. Each Edwards **STEEL** Shingle is dipped in **molten zinc AFTER** it is cut. No raw or exposed edges. No chance for rust ever to get a foothold. And the patented Edwards Interlocking Device, which allows for expansion and contraction, gives **PERMANENTLY water-tight** joints.

Edwards STEEL Shingles

Get Prices As to prices, these **STEEL** Shingles are far below wood. For we sell direct from factory to user and pay the freight ourselves. Just get our latest Steel Shingle Books and Prepaid Factory Prices. Then compare. Then see if you can afford common wood shingles when you can buy genuine Edwards **STEEL** Shingles at these prices. Give dimensions of your roof if possible, so we can quote price on entire job. Send postal today and our Catalog 890 and Prices will reach you by return mail.

The Edwards Manufacturing Company
640-890 Lock Street, Cincinnati, Ohio
Largest Makers of Sheet Metal Products in the World.

The PERFECT CORN HARVESTER

SOLD DIRECTLY TO FARMERS

$18.00--Freight Prepaid

The correctly adjusted machine to **cut for shock or silo.**

Works in all kinds of corn and on all kinds of soil.

No breaking off of ears or pulling of stalks. Absolutely safe.

Cut from five to ten acres a day with one man and one horse.

Kerrick, Ill., Nov. 18, 1912.

I take great pleasure in recommending the Perfect Corn Harvester to anyone who has corn to cut. I used two machines purchased from you in corn that would make 60 bushels per acre. Two machines, two men and two mules cut 40 acres of corn averaging 60 bushels per acre and cut 96 shocks per day, 16 hills square, and fed three car load of steers every day, besides doing other chores, and were all through with their day's work by six o'clock every night. I would be glad to have you refer anyone to me for any further information. Very truly, L. H. Kerrick.

Send today for booklet on "Cutting Shock or Silo Corn."

LOVE MANUFACTURING COMPANY,
Dept. 15, Lincoln, Ill.

Get Championship Yields
Next Year With
"Corn King" Seed Corn
Dryer and Storage Racks

Boost your corn yield by drying your seed corn *perfectly*. Corn King Storage Racks can help you do it. Seed Corn for the first prize corn in Illinois last year was dried in "Corn King" Racks. These racks let you "pigeon hole" each ear by itself. Thousands of cars can be stored in one room without any two cars touching.

This is the *easiest* and *most economical* way ever known for drying and storing seed corn. Hang the racks in sections—one rack below the other.

Here's a mighty handy outfit to have when testing seed corn—every ear in the whole rack is easily within reach.

Last year Iowa men increased their corn crop 11 bushels per acre. This is due, almost entirely to care in drying seed corn. You can do as well and maybe better—get a few Corn King racks and see. Only a few bushels increase will more than pay for your racks.

Each rack holds 100 ears—enough seed corn for seven acres. Racks are easily shipped anywhere. Freight prepaid.

Write for prices and "Boosting the Yield Per Acre." Address

THE MARTIN COMPANY, 15 State Street, Sac City, Iowa

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FREE SAMPLE

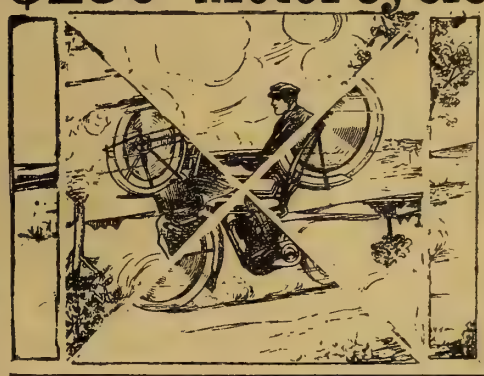
AT MILL PRICES---GALVANIZED OR PAINTED---
QUALITY GUARANTEED

Every sheet inspected and guaranteed BEST OPEN HEARTH PRODUCT. The galvanized roofing and siding have an extra heavy tight coating of galvanize. Save all middlemen's profits by buying direct from our mill at mill prices—when you buy from us you buy from the manufacturer.

Send size of buildings and we will furnish you free a complete estimate of cost. This will show you how you can save all intermediate profits. LET US PROVE WE CAN SAVE YOU MONEY—write to-day for free sample and prices.

THE SYKES METAL LATH & ROOFING CO., (Est. 1877) 520 Walnut St., NILES, OHIO

$250 Motorcycle Given Away



Here is your chance to get a $250 Pope Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the seven-horse power motorcycle and a lot of money besides.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Popular Company
507 Popular Bldg. Des Moines, Iowa

A Silo Book Free

This is Vol. 37 of the celebrated Cypress Pocket Library, and its 120 pages discuss the silo proposition in *all its phases.* Probably it is the most authoritative and exhaustive treatise on the silo subject ever published. It is not in any sense a manufacturer's catalog, but it contains WORKING PLANS and SPECIFICATIONS for building the best and cheapest "EVEN TEMPERATURE" silo ever invented. This silo is not patented *in any feature* —the plans are for YOUR FREE USE and profit.

A Silo Book That Is Authoritative:

Some of the subjects treated in this book are:

"Billion Dollar Waste"
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You Need a Silo
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Silage Makes Milk and Beef
Beware of Frozen Silage
Silo Superstitions
May Be Addition to Barn
Cost of Filling Silo
Investment Value of Silo
Must Be of Wood
Not Necessarily Round
Lumber Bill for Silo
May Be Built Inside Barn
Science Condemns Cement
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and a dozen other topics, each given a free, full and fair discussion—handsomely illustrated. Full plans, detail drawings and specifications for building a silo that WILL NOT CRACK, EXPLODE, TUMBLE DOWN, or FREEZE—nor will it chill the silage at siloing time. This economic masterpiece is the CYPRESS "EVEN TEMPERATURE" SILO.

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Vol. 4 is the BARN Book, with plans for 4 barns; Vol. 20 is the FARM NEEDS Book, with plans for 8 farm outbuildings; Vol. 36 is the CARPENTRY BOOK, with 12 plans and sketches of difficult jobs in carpentry, and Vol. 37 is the NEW SILO BOOK.

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Saves ½ the Cost Of Fall Plowing

You can put this small, light Hart-Parr Oil Tractor and "Self-Lift" plow up against the stiffest kind of fall plowing and easily save one-third to one-half the cost of horse plowing on every acre, and do it with less drudgery. You can plow deep—6 to 8 inches—finish 10 to 15 acres daily and do a better, quicker job. Work the outfit 24 hours every day, if necessary. Specially designed carburetor on tractor guaranteed to handle cheapest KEROSENE on heavy, light or no loads. No plowman needed. One man runs the entire outfit right from the engine platform.

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HART-PARR -OIL TRACTOR-

is built light, yet amply strong, with no dead weight to drag around or waste power. Every detail is simple in construction. Tractor has only 300 parts—that is 500 to 1200 less than all others. Drive wheels are solid steel castings—not built up, and afford 31% greater surface contact, due to wonderful wave form lugs. For extremely soft soil, drivers can be equipt with "Hold Fast" extension lugs, the lugs that hold to the soil with a bull dog grip, yet do not injuriously pack or tear it up.

The Hart-Parr "Self-Lift" Plow

is one-third lighter and has one-third less parts than any other. Automatic lift is operated by a slight pull on a rope attached to the clutch lever. Separate hand-lift attachment for raising or lowering any individual bottom without disturbing adjustment of rest of plow. Special spring beam coupler permits bottoms to skid around or pass over stones, etc. Furrow wheel keeps plow straight in furrow. There are several features about this Tractor and plow that you ought to know about before you invest in a power equipment. We build a power outfit for any farm, large or small.

Write today for illustrated catalog, special circulars, etc., and let us counsel with you on your power requirements.

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With tractor in motion, engine operator is clearing a single bottom of trash. Adjustment of rest of plow remains undisturbed.

Hart-Parr Co.
228 Lawler St.
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Build Your Crib High!

And, at the same time, put in an old reliable Schroeder Upright Driveway Elevator. Save time, save trouble, save expense, and get more for your grain by holding out for highest prices. With a Schroeder Elevator built right into your crib one man handles all the work easily in any position.

It's wider than any elevator made and will carry more grain. It's built right, down to the very bolts. And you can use it anywhere in very short order.

Get an Old Reliable **SCHROEDER** Upright Driveway Elevator

It is the first grain elevator ever made and has never been approached by imitators. It leads the field in every way—in make, in capacity, in sales. For engine or horsepower.

Up-to-date crib plans with detailed drawings, specified bill of lumber with estimated cost, mailed to you free. ASK US FOR THEM NOW

FREE BOOK on request. Tells all you want to know about Grain Dumps and Elevators. Get a copy today.

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Crop Maker Roller Bearing—Fanning Mill

The easiest-running fanning mill a man ever turned—therefore the one f :omplete service and biggest results.

Every farmer knows the value of a good fanning mill. If you don't own one now, you are probably thinking of buying. But before you do buy, let us send you a Free Book telling about our great offer, which enables you to prove to your own satisfaction the wonderful capacity of this Crop Maker for *perfect work.*

30 Day Trial—Direct Factory Price

We mean just what we say—*free* use of the Crop Maker on your own farm for a full month, without obligation to buy, with the machine *yours at factory price* when you find that all we claim for it is true.

The Crop Maker runs "like oil" because it has roller bearings. It cleans, separates and grades grains and seeds of all kinds—turns out perfect seed for planting—insures bigger crops and larger profits. You will make many times its cost in a single season. This machine goes *to you from us*—one small profit added to the actual expense of making. Be sure to write at once for the Free Book, detailed description, price and complete offer. Please write *today.*

ST. PAUL FANNING MILL CO., Station 6, ST. PAUL, MINN.

What Shall I Name Him?

This is a picture of a beautiful pony which I am going to give some lucky boy or girl, but first I want a name for him. Send me the name you would like for this pony to have and I will tell you how

You Can Win the Pony

Just like Blanche Barringer and Hazel Lippe won "Dandy" and "Duke" for their own. They answered an ad like this one and did as I told them and now they each have a beautiful prize Shetland.

1500 Free Votes to All Who Send Name

Just as soon as you send me a name for this pony, I will tell you all about my great offer and actually give you 1500 free votes to help you win him. Remember, I will tell you about my free offer and give you 1500 free votes as soon as I hear from you. Write me today.

Copyright, 1913, by A. M. Piper

A. M. Piper, 726 Popular Building, Des Moines, Iowa

HINTS ON FILLING THE SILO.

(Continued from page 5.)

will rot anyway and one might as well have straw there to rot instead of corn. When the ensilage has been well tramped, it will settle about five or seven feet in a thirty-two-foot silo.

Although we have never, as yet, filled the silo with corn that was too dry, as it is when the filling is delayed or when frost has caught the corn to be used, our neighbor, we observed, ran a one-inch stream of water into the blower from a hose attached to a nearby hydrant, while the cutter was in operation. In case the above method could not be carried out, we do not see why one could not syphon the water out of a tank with a hose directly into the blower. We do not think it probable that too much water can be put on the ensilage. However, there is more moisture in the stalk than one would naturally think, even when apparently dry. Ordinarily, if the corn be cut before frost there will be enough water in it without putting more on. When filling we take the corn right from the binder or as nearly so as possible.

From our experience we find that it requires from ten to twelve men, besides the engineer, to fill a silo, keeping the ensilage cutter busy. As we have already said, it depends on the distance between the field and the silo. The engine we use is hired and the engineer comes with it. Ten dollars per day is a fair price to pay for an engine and engineer, the farmer furnishing the coal.

GEO. B. HEWITT, Harrison county, Iowa:—In taking up the question of filling the silo we will assume that the corn is adjacent to the farm buildings to avoid unnecessary hauling. Go to the field, pocketknife in hand, and, after choosing an average plant in the degree of ripening, cut out a portion of the stalk about the ear, put a little of the pith in your mouth and chew it. If it has a sugary taste, in fact quite sweet, your corn is ready to cut. In my opinion the taste is better to go by than the sight, especially in a season like this one where the growth of the corn has been checked by dry weather in some parts of the country. The husks and blades are not the best test to judge from as to the degree of ripeness, as different varieties of corn will show a difference in ripening, and sometimes when the husks and blades are dry the stalk is in a very green and insipid condition.

Set the binder to make the bundles as small as you can. Do not use the bundle carrier, but drop them directly as bound, because when dumped in windrows they have to be pulled out from under each other. Start the binder about four hours ahead of the cutter and by the time your silo is filled you will catch up with the binder, assuming you have the large-size cutter, which is the size I use. Five men are needed, each with a team and low wagon and hay rack, the driver loading his own load. Let the team follow the stub row, starting and stopping as in husking corn. Pick up bundle by the band, placing the other hand on the butt of bundle and turn it over on wagon, loading all tops and butts the same way. If the rack is fourteen feet long about thirty inches high will make about 3,000 pounds, depending upon the ripeness of the corn.

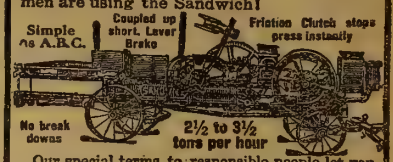
Drive to the cutter with the tops next to the carrier. Have a helper there to throw the corn off, a man at each end of the wagon. Pick the bundle up by the band and slide it toward the carrier to the point where it will overbalance with the tops in the carrier and the butts resting on the load. Each man on the wagon should keep his turn, laying the bundles down just as the preceding one starts off the feeder. By placing one hand on the tops and bearing down a little the carrier will do the rest. You can lap the bundles half way and will be surprised what a stream of corn will keep going into the cutter all the time and how quickly it will get away with a load of corn.

It is better to have the corn well over on the ripe side than to cut too green. It is always advisable to wet the corn, as there is no danger of getting too much water if it is inclined to be a little too dry or ripe. Water may be added by the use of an ordinary barrel with a half-inch hole bored near

(Continued on page 17.)

SANDWICH
(solid steel—money maker)
Motor Press

Puts you—or your boys—in the big paying, fast growing business of baling hay! "Net profit $18 to $22 per day," write Swartz & Mensch, Dixon, Ill. Other hustlers making $200 to $300 net profits monthly. And these men are using the Sandwich!



Our special terms to responsible people let you start with little money. And you pay from your profits. Unless we **know** the Sandwich will make you stacks of ready cash, we could not sell this way.

Gas Engine on Same Truck

Here's the most complete hay baling outfit in existence. Full power is driven from engine to press by heavy steel roller chain. It does away with slipping belts. The Gas Engine is the best quality—hopper cooled type—gear driven magneto—4, 6, 8, and 10-horse power.

The Sandwich has a simple time-tried self feeder and a big feed opening. A great windrow baler. Beats every ordinary press from 2 to 8 tons daily. 25 tons are an everyday job for the Sandwich; often 30 to 40.

This Book FREE

Write today for postpaid copy of this amazing story of profits others are making. And if you are interested in **Horse Power Presses,** let us tell you about our large line. Address

SANDWICH MFG. CO., 170 A St., Sandwich, Ill.
Box 170 Council Bluffs, Ia. Box 170, Kansas City, Mo.

Trojan Steel Gates Are Real Gates.

Made of 16-8 high carbon steel tubing all No. 9 galvanized wire mesh, special hinges, self-locking latch, raises at either end, absolutely hog tight, bull proof and wear proof. Strongest, best looking and longest wearing gate in the world.

You Can Get One FREE

Sold on 30 Days Trial. Guaranteed by $10,000 Bond.

You take no chances. We ship the gates. We let you try them, test them, compare them with any other at any price. If they are not the best ship them back at our expense.

Sold Direct from Factory at Factory Prices.

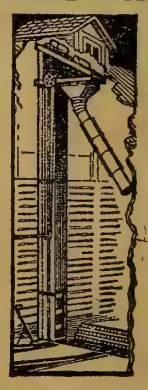
You save middleman's profit. That's why they cost less than others; that's why more Trojan gates are sold than all others. Investigate.

Write for Catalog and Full Particulars of Our Introductory Free Gate Offer.

Our proposition is fair and square. One gate free to one farmer in each county for helping introduce.

Standard Mfg. Co., 300 Main St., Cedar Falls, Ia.

A Real Elevating Plant



Install the "Hart" Bucket Elevator—it handles your grain most economically—it can't clog, works under all conditions—withstands continuous usage—does not block your driveway. Grain cannot splatter over or carry back at the top. Operated with overhead lift or log dump. Can be set up in any one of your cribs. Write today for catalog—or if you expect to put up a new crib, get our Free Architect's Plans. Just tell us capacity of crib and type of machine wanted. We'll do the rest.

HART GRAIN WEIGHER CO.

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CUP ELEVATOR

Always ready for use. Placed inside the crib in the dry. Easy running, durable and strong. Elevates oats, wheat, or ear-corn, 50 bushels in three minutes.

SET IN YOUR CRIB BEFORE YOU PAY

The first successful **Upright Ear Corn Elevator made—SOLD DIRECT to the Farmer.** Free Catalog showing 8 styles with crib plans which save you money. Write for it today.

INTERLOCKING FENCE CO. BOX 65 MORTON, ILL.

FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c a rod for 47 inch high stock fence; 28 1-2c a rod for a 50-in. heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, $1.55. Catalog free.

INTERLOCKING FENCE CO.
BOX 17 MORTON, ILLINOIS

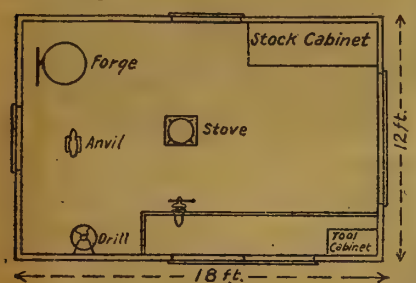
FARMER'S WORKSHOP.

To the Editor of The Homestead:

By no means would the shop of the farmer be called a model, for the tradesman would require a much more complete equipment. Yet to the farmer, his small equipment is of as much importance to him as the more elaborate one of the worker in wood or iron. I have had a shop of some description ever since I have lived on the farm and have come to regard it as a necessity from at least two points of view. It saves not a great deal in cost of repairs, though much more in time. Then it encourages the boys in the making of both necessary articles and work for their own amusement. And when a boy can get his amusement from useful work, I say let him.

If one is starting out with no tools, whatever, it is much better to get only a few at first and let them be good ones. For the worker in wood the first thing that will be suggested is the hammer, saw and steel square, but almost of as much importance is the draw shave, planes, a set of chisels and brace with set of bits. When you buy bits let them be of the solid center pattern, these will not spring so easily, and a stick of wood may be bored lengthwise with them. Don't get one larger than one inch. For the larger size let it be augers with an adjustable handle that will fit all. The ratchet brace is a great improvement. All of these tools will cost but a few dollars.

If a forge and anvil are to be added the cost will be greater, but the range of work that can be done will also be



greatly extended. A forge may be bought for $5 that will answer the farmer for light work, and a steel-faced anvil will cost about the same price. A solid steel anvil of good weight will cost $12 to $15. There will be but few more tools to add to this equipment. Tongs will be a good thing to learn on, and after a few failures the amateur workman will find that he can make a pair of tongs instead of buying. A good blacksmith hammer is one of the most important accessories; then will come a cold chisel and a few punches, a drill head with set of bits for drilling in iron and steel. One of the most useful tools I have ever found on a farm or shop is a set of taps and dies for cutting threads anew or in opening battered threads on old bolts. The cost is reasonable. I might go on enumerating tools that would be suggested, but these mentioned are the essential ones. The mail order catalogs furnish a desirable list at reasonable prices, but I do not think it advisable to buy a complete assortment as given in some of the collections advertised. There are so many tools that you will rarely need, that it would be much better to put that money in better tools though fewer in number.

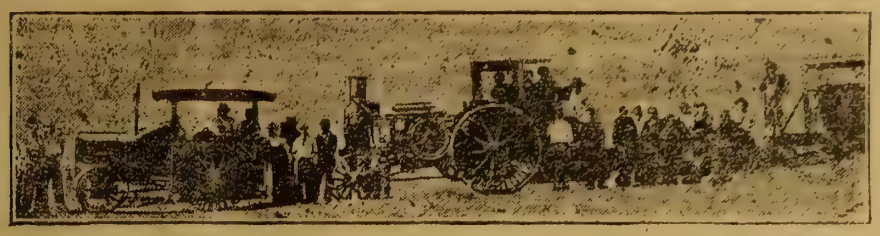
If shoeing is to be done, a small nail hammer, knife, rasp and buffer will be required. A dollar invested in an assortment of bolts and screws will be worth many times the cost, since it is often worth that much to be able to lay your hand on a single bolt of the required size.

Some of the more easily learned jobs in blacksmithing will be the sharpening of straight cutting edges as mattocks, picks, harrow teeth, etc. Then later on cultivator shovels may be handled. It will require considerable experience to do a good job in sharpening a turning plow. Learn how to temper the steel, and do not neglect this or leave a piece in the fire too long. For this reason it is best to practice on something of little value.

H. F. Grinsted.

I. G. Remmer, a Baron county (Wis.) farmer, boasts a yield of twelve tons of alsike and timothy hay from a three and a half acre field.

"I Will Teach You How to Run a Traction Engine Free" —Emory J. Sweeney, Pres. Sweeney Auto School



The purpose of this amazing offer, the good faith and reliability of which will be attested by the editor of this paper, is to demonstrate the superior equipment and facilities of this school, and also to celebrate the opening of the fall season in our magnificent new quarters, the finest and largest of the kind in the world.

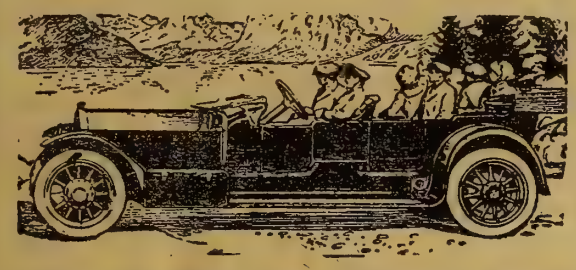
I want every young man mechanically inclined to investigate the BIG OPPORTUNITY for making more money that I can give him in a few short weeks, and knowing the demand for traction engineers I want to give all those who answer this announcement a FREE COURSE IN TRACTION ENGINEERING.

The Sweeney System of Practical Auto Instruction

is now universally recognized as the most thorough, practical and interesting course of automobile instruction, leading to certain and profitable EMPLOYMENT. It embraces every point worth knowing, including vulcanizing, brazing, oxyacetylene welding, lathe work, machine shop practice, testing, driving, truck repairing and operating, etc. AND YOU LEARN by doing the work on REAL CARS under the watchful eyes of skilled instructors. The only school equipped with all types of self-starters.

$50 Course Free to Men Who Answer this Advertisement

You know right in your neighborhood of the demand for traction engineers and mechanics. Factories want workmen and demonstrators. We are in close touch with a great traction factory here in Kansas City. We teach you on three different types of tractors in actual work and also give you FACTORY experience no other school can offer. Men are wanted right now for good jobs. Here is a wonderful opportunity for young men. You can learn in a few weeks. We want to start out a few graduates right away and so although the regular price of the course is $50 you GET THE COURSE FREE. Sign and return the scholarship coupon today. No previous experience is required.



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DAIRY

KEEPING UP THE MILK FLOW IN SUMMER.

To the Editor of The Homestead:

Summer feeding of dairy cows has its perplexities and problems as well as does winter feeding. Every summer there comes a decrease in the milk flow from the herd unless some special effort is made to meet and to overcome the conditions which induce the dropping off. The milk yield can be kept up through the season. Hundreds and thousands of dairymen are doing it. Every year a larger number are making an effort to overcome the conditions that induce the once regular dropping off in the milk flow and correspondingly the size of checks. They realize that the loss is more than temporary. It means more than a lessened income for two or three months. Many cows will not come back to the normal flow during the lactation period. Thus after having done well for perhaps two or three months she drops to a low and possibly unprofitable producer for the balance of the year.

What are the conditions that induce this summer decrease in milk flow and how are we to overcome them fully and economically? Almost anyone would answer quickly, "Dry weather and consequent short grass." We must all concede the wisdom of that answer. We must still go further. We must concede that the heat of summer is another big factor beside short grass. As a third factor we must give due allowance for the pesky fly. Our problem then is—to feed the cows well and to keep them comfortable.

Pastures will become short. The acreage that will feed a herd luxuriously in spring or fall is likely to be meager and scant if not dry and parched in midsummer. There is no way of getting around the proposition that additional feed must be supplied if the cows are to be kept in condition and the flow to be kept up. But how? Many things are possible. Fortunate is the man who has a summer silo filled with preserved succulence. In five or ten minutes he can feed his herd their daily portion and then go about his regular farm work. The summer silo has merits worthy of the consideration of every dairyman. The writer meets many men who are keenly studying this proposition. Recently he helped one progressive young man to plan a concrete silo with a concrete trough leading out from it in which the cows are to be fed in summer. In the future, more than at present, summer silos will be very common.

Soiling, or the use of crops fed green and fresh, has many advantages. Of course the summer silo cannot be made available if provision were not made last year, but soiling is in many cases possible although no special crops have been planted. Professor Kildee in charge of the dairy farm of the Iowa Agricultural College at Ames has done some very excellent work in determining the value of soiling crops. He has written:

Realizing that the production of dairy products in the state is lessened by the hot dry weather, flies, and short pasture, work is being carried on to see how this condition may be remedied. The summer silo, under many farm conditions, is the solution of the feed question, yet soiling crops have many points in their favor. During the past three years we have been supplementing our pasture with soiling crops and have secured gratifying results. We allow the cows to run in the pasture during the night and forenoon and then put them in the barn out of the sun early in the afternoon. They are given a liberal allowance of green feed when put into the barn and are sprayed to remove the flies. Thus handled the cows keep up the milk flow persistently and are much more profitable during the summer months. The milking herd of from thirty-eight to forty cows has had but nineteen and one-half acres of pasture in addition to eight to ten acres of soiling crops.

From our western state of Utah comes the report that six acres planted to a succession of soiling crops was so handled as to more than maintain thirty cows for three months. One hundred and forty-nine tons of green forage were produced on the six acres, an average of nearly 25 tons per acre. Of that 74 tons only were fed to the cows green. The balance when cured made 30 tons of hay. The cows had been fed 14 tons of alfalfa hay during the three months and also a small allowance of grain, though not enough grain to balance 16 tons of dry hay left after subtracting 14 tons to balance the 14 tons of alfalfa fed.

From the work in Utah with which the writer is familiar very intimately, we may draw a comparison between the silo and soiling. The yield of soiling crops was 25 tons per acre. Near by on land very similar corn was raised last year for the silo. The yield was 15 tons per acre. Always the soiling crops will outyield those grown for silage, but perhaps not to that extent. The comparison swings back with favor toward the summer silo when we consider the extra labor involved. In the Utah test a second plowing and planting was necessary. To cut the green feed and haul it to the cows meant the use of time very valuable for other farm operations at that particular season.

To get back to the problem of this particular season. The crops cut green and fed fresh to the cows will help to keep up the milk flow. Green fresh alfalfa has been fed many, many times with most excellent results and with only a small amount of danger from bloat as is the case when it is pastured. An early crop of field corn or sweet corn will be ready at the critical time. So will sorghum, or oats or oats and peas. Sometimes after some early crop has been removed millet may be sown for late soiling.

How about grain on pasture? Will it pay? Recently a young Greek who has made a remarkable success of dairying said: "The money that I spend for grain when my cows are on grass brings me the biggest returns of all the money I spend on the herd." His opinion is that the cows yield a little more milk at the time, but still greater they are kept in condition from which they will do better in future seasons. His idea corresponds closely with the results of experimental work, which briefly summed up is—that a light feed of grain on grass may return full value at the immediate season of feeding. In some cases it does not. However, the extra flesh and extra thrift of the cow insures an increased yield in future seasons that will justify the expenditure in feeding grain.

As to the matter of flies, putting the cows into a cool, clean barn and spraying them attends to that nuisance nicely. To prevent the accumulation of filth in which flies breed is a big factor in combating them. All manure should be drawn to the fields. That which drops in the barn yard should be broken up or removed. A cool shed with burlap hanging doors which will brush flies off as the cows enter are sometimes provided and the results are satisfactory.

The clean, cool barn provides for comfort also. However, not all milk cows have a large, light and airy barn attached to their shelter equipment. Shade trees or a cheap shed through which the cool breezes can blow will help. Plenty of clean, cool water is another factor to which we must pay particular attention. Briefly, feed the cow well, keep her comfortable and verily her returns will be profitable.

H. E. McCartney.

THE PASSING OF THE FARM CHURN.

To the Editor of The Homestead:

In sections where dairying has become a dominant feature the farm churn has become almost a relic of the past. Recently I spent a Saturday evening in a village in which there were more cows than people. All the good housewives were lamenting that they had no butter for Sunday and that there was not a pound in all the stores in town. An inquiry as to the reasons for all the families' buying butter revealed the fact that formerly all the dairy produce went to a co-operative creamery and was here

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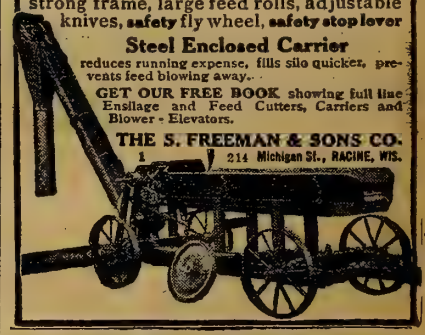

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made into butter. It was a very easy matter for each patron to have carried to them by the cream haulers such amounts of butter as might be needed. About one year previous to my visit the business of the co-operative creamery had been taken over by a condensary which, of course, did not make butter. Few, if any, of the families had separators. Many of them did not require scrubbing. The co-operative creamery is a blessing to the housewife who is relieved of churning by it.

As a matter of economy, undoubtedly the creamery pays more for the cream than the market value of the butter would amount to, for under farm conditions not a high percentage of the total butter fat is secured in churning. The passing of the farm churn is one of the things that helps emancipate the farm woman from what has been considered drudgery.

H. E. McCartney.

THE HEART OF THE SUMMER.

To the Editor of The Homestead:

Very rarely have we in our section of the country felt the effect of dry weather in our dairy operations as we have for the past few weeks.

Dropping in at the rooms of the Guernsey dairy in a city of 60,000 in southern Central New York the other day, the man in charge told me his supply of milk had been cut off 50 per cent by the drouth.

"We have hard work to get what milk we absolutely must have, and every milk dealer in this city is frantic for milk," he said. Out in the country yesterday, speaking with a young man who has a herd of choice cows, he told me, "Our cows never shrunk as they have this summer. There is really nothing green in our pastures."

In the face of such a situation, a situation which affects all kinds of business, for the farmer is the backbone of the mercantile business, the problem is what to do to stem the tide when there is no rain. Feed is high in price, due to reports of a shortage in the West in the corn crop.

On our own farm we have begun to feed millstuffs. Last night we gave the cows gluten. We have also taken extra precautions that the water supply shall be kept good. The natural source of supply with us is a creek which runs through the pasture. There is some water in this yet, but it is stagnant and not very clean now; so we have hitched the gasoline engine to the pump at the drilled well and pump what the cattle will take, and they take a lot of it. We have a tank which holds twelve barrels and we intend that the cows shall find plenty of water in it whenever they come to the yard.

If there is any better way to keep up the milk flow I do not know what it is. We have two pastures, so that we can change off and provide as much variety as possible. One of these pastures we use through the day, while the other is reserved for the night pasture. We have a field of second crop alfalfa which we will probably mow and feed green soon.

Somehow, anyhow, the flow must be kept up as well as possible. If cows get badly reduced this time of the year, the chances are that they will not pick up again this fall. It is so hard to bring back the normal flow after the cows once fall off. We are praying for rain and that, too, speedily.

E. L. Vincent.

The total cost of producing milk containing 4 per cent butter fat is approximately four cents a quart, according to data obtained from tests conducted by the United States Department of Agriculture at New Jersey experiment stations. This figure is based on the cost of labor and the actual cost of growing and harvesting the products consumed, and includes incidental expenses such as bedding, stabling, interest on investment and depreciation, but not the time given by the former to supervision. The feeds used consisted of soiling crops of different kinds, corn, silage, mixed hay, oat and pea hay, alfalfa hay, corn stover, beet pulp, distiller's grain, wheat bran and oatmeal. The cost of feeding a cow a year was $169.95, based on the actual cost of growing and harvesting the products consumed, while, on the basis or market valuation of feed, the cost was $191.82.

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SAVE MUCH TIME AND LABOR IN SUMMER

Which means a great deal to the farmer, let alone the great increase in quantity and improvement in quality of product

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Has many special features. Best form of HINGE DOORS, air tight and quick detachable, easy to operate. Best form of HOOP CONNECTION; all hoops can be tightened from doors, no seperate ladder needed. Best and most complete anchoring system. These special features with the best quality of Washington Fir material we can buy makes our silos the most complete, convenient, durable, and up-to-date silo to buy. Write for free literature, describing our silos and ensilage cutters. See our exhibit at Iowa State Fair.

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FOR SALE, OHIO SILO FILLER

SIZE 17, with thirty feet of pipe, two sets of knives, with, or without trucks. New, run only ten days.

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The Jersey gives richer milk and more butter than any other known breed, at a lower keeping cost. She does it continuously and persistently. Her milk and butter bring better prices than the product of any other dairy breed. That's where quality *does* count. Jersey facts free. Write now. We have no cows for sale.

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Come and see them or write.

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HIGH-Class Barred and White Rock. Breeding stock for sale, also Pekin Ducks. Lone Oak Farm, Linevi.le, Ia. Jas. H. Duncan, Proprietor.

BRAHMAS.

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

DOGS.

Scottish Terriers

THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. HARR - - - RIVERSIDE, IOWA

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH Collie pups for sale. Sable and white in color, perfectly marked. Sired by Hilander II No. 148502. Dam Willing Lassie No. 148503, two of the best heel driving dogs in the state. Price $5.00 for females and $10.00 for males. Write me quick. Le Roy Brown, Lamoni, Iowa.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Biflesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

NOTICE MEN--- COLLIE and AIREDALE pups let out on shares. Some for sale. Circulars and price lists. No $5.00 ones. P. L. Savage, St. Charles, Illinois.

MUST SELL at once, my entire kennel, at half price. Puppies, brood bitches and trained collies. Write at once for prices. E. J. Thomas, West McHenry, Illinois.

COLLIE PUPS Natural heelers, plenty grit, exper. driving parents, pedigree; females, $5; males, $10. F. L. Reinhard & Son, Ottumwa, Ia.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

SCOTCH COLLIES None better than these. Either sex. Address G. A. Wiebe, Beatrice, Neb.

FULL blood S. C. pups from parents that are natural heelers. All sable and white, well marked. Prices reasonable. Earl M. Filson, Birmingham, Ia.

FOX TERR'ERS FOR SALE--- The great little rat, watch and pet dog. Send for price list and description. W. Harr, Riverside, Ia.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

THE LATE-HATCHED CHICK FROM THE FARM STANDPOINT.

To the Editor of The Homestead:

When considering the late chick proposition, it must be borne in mind that there is a vast difference between the commercial grower, who makes a business of market chickens, and the farmer who raises chickens as a side line. The farmer has his regular customers and can realize a good profit on any of his products. Under this condition, the producer is able to procure a good price for broilers or fries at any time in the year. Ask a poultry packer in any average small town what he will offer for two to three-pound chickens in the late fall and winter, and he will offer you exactly what he is paying for grown stock, or about one-third what they would have brought in spring and early summer, and is averse to buying them at all unless there are enough to "fill a barrel."

We usually experience desperately hot weather in June and July and it is not conducive to good hatches. Parasites multiply rapidly under a sitting hen in torrid weather and it requires a continued warfare to keep them from using her up. Especially do mites wage war late in the season. The average farmer is not equipped to hatch with an incubator throughout the year, while the growers who make a business of poultry keeping are, and hatch every month in the year.

The sage advice is offered to farmers at institute and through the press to make a business of poultry and conduct it as the commercial growers. Every enterprise, no difference how small, requires a "business end," but when a farm flock is worked on the same basis as a flock cared for by a man whose sole business it is, then it is no longer a "farm flock," but a "business" of itself and will require the sole attention of one person.

Many methods of the commercial grower can be utilized by the farmer, but it is well to realize that there is a dividing line.

There is a place on the farm for a limited number of late chickens. The cockerels make fine fries through the fall and winter when one is tired of heavier meats. The pullets will never grow to quite the size of the early hatches, but they mature much earlier. it is a late chick, indeed, that does not get its feathers before cold weather. Nature has a few "instincts" of her own, and it is interesting to see a flock no larger than quail in full feather. These late pullets have their mission on the farm, but only in exceptional cases should they be used for breeders. They begin laying when the flock is getting broody and the eggs are not quite to normal size, but they are most acceptable either for the home table or market. Then all through the summer there are demands for roasts and these plump young hens fill the bill exactly.

The most successful late chicks we raise is where the hen, after raising an early brood, loafs and rests, and then "steals her nest," hatches eight to ten small biddies and hikes to the shady fields with them. This proceeding in July and August will beat the orthodox "June" hatch to a frazzle.

Minnie G. Stearns.

To paint and care well for buildings is economy, and it is loss to neglect to take good care of good property. The implement worth buying is worth taking care of, since its life may be prolonged and the usefulness continued. Many wagons grow old from neglect and exposure when they are little used. We heard of one man who claims that it is useless to build a shed or house for a wagon, for his wagon lasted a long time without such care—but it did fall to pieces finally, and from neglect, and not use.

The Kansas grain grading commission established a new grade of Kansas wheat. It will be known as red turkey hard wheat. The berries must be plump, round and smooth, the color dark brown, in fact, the finest wheat grown in the state. The grain men have been fighting for several years for the new grade, as it will establish a distinguishing Kansas wheat grade, a wheat grown almost exclusively in Kansas.

No More Scooping Corn Till You Drop!

Read the Verdict of the Farmer Jury:
"Any Farm Elevator is a hundred times better than the back-breaking drudgery of shoveling corn—but the Sandwich is the best by test!" These farmer jurors and near 15,000 back this decision by *owning* the Sandwich.

Sandwich Cypress Farm Elevator

Cribs corn liokety-split—stores small grain, too!

One boy with the Sandwich can crib as much as 7 men with scoops. Juror John F. Heikens' 11-year old son ran theirs as good as his dad, while the other children picked the crop.

Makes the Farmer a Business Man

Here's positive proof you are farming at a loss without the Sandwich. Corn huskers like picking where this Elevator does the drudgery. They'll work for less wages. They'll pick 10 to 15 bu., more per day. Juror C. H. Keller, Marshall, Minn., saved 1c a bu. this way. On hundreds of farms it has cut out the expense—the keep—of extra men and teams, and has added this too, to the farmers' profits. Some say this elevator increases their earnings 3c per bu.—some say 4c. Yet the Sandwich costs but little and is everlasting.

No Horse-Leaning Platform

The wagon-jack is overhead. And you drive right under with even the highest load. It dumps it in the hopper like clock work. Then hitch to the power—horse or engine—and the corn pours into your crib in a torrent.

No More Rotting in the Cribs!

The Sandwich Swivel Spout, roof extension or overhead conveyor puts corn in far corners where men never could. It fills your bins—your cribs—chuck to the top—like chain lighting!

No more rotting in the crib from shelled corn and silk. The Sandwich brand new Body Grate screens them all out. This Grate is closed tight when elevating small grain.

Write Quick for Free Catalog

And the name of a dealer nearby who will show you the Everlasting Sandwich. This book pictures it—tells the inside facts of Elevator construction—why we build of Cypress "the wood eternal," line it with steel and give you the best, though we make less money.

This book gives you, besides, the measurements and capacities of cribs and granaries. You'll want them if you ever build—you'll want to see the Sandwich anyway. Address now—

SANDWICH MFG. COMPANY, 170 B. Street, Sandwich, Ill.
Makers of Everlasting Sandwich Corn Shellers, Hay Presses, Loaders and Rakes and Feed Mills and Gasoline Engines.

IF YOU WERE A CHICKEN

and ate from a dusty, dirty floor; drank from a questionable water pan, and slept, with a hundred others in a hot hen house, in the same clothes you work in, YOU WOULD APPRECIATE GERMOZONE. The difference in sanitary conditions between a wild chicken and most cooped chickens is almost as great as that between a chicken and yourself.

Germozone is more an antiseptic or germ killer than a medicine. It is especially effective for any germ disease of the skin or mucous membrane and that covers ninety-nine out of every hundred cases with poultry.

Germozone, given twice a week, with regularity, works wonders. Just a little in the drinking water. It purifies the drink; the food; the mouth, throat, crop and entire intestinal tract, giving those solid, slatey colored droppings, tipped with white, that every poultryman knows means chicken health. Don't wait until they get sick or quit laying.

Then too, **Germozone** is a ready and most reliable remedy for ROUP, COLDS, CANKER, SWELLED HEAD, SORE HEAD, CHICKEN POX, BOWEL TROUBLE, etc. It is the best known and most popular medicine for poultry. It is the most widely distributed in trade, handled by more than 10,000 dealers in the United States, at 50c per 12 oz. bottle. If you cannot get it from your dealer, send 10c for a sample bottle and name of nearest agent. "Lee's Poultry Book" and "Pointers for the Amateur," free.

GEO. H. LEE CO., Omaha, Nebraska, or Los Angeles, California

PRATTS **To Kill Lice and Mite** on fowls and in the houses, use PRATTS POWDERED LICE KILLER 25c and 50c per package and PRATTS LIQUID LICE KILLER 35c quart; $1 gallon Each the best of its kind "Your money back if it fails" 100-page poultry book 10c by mail At all dealers, or PRATT FOOD COMPANY Philadelphia Chicago **PRATTS**

DUCKS.

$10.00 PER DOZEN. Yearling Indian Runner ducks, Faun, also Pencilled. Some winners. R. O. Dickson, Box 30, La Harpe, Illinois.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa

In Cement Floors and FOUNDATIONS Use ROSS IRON Studding SOCKETS

The "100-Year" Post Support

Simply tap sockets down into soft cement. No sills to rot. No toe-nailing to rust. Fits *any* upright. For Cribs, Granaries, Barns, Sheds, Garages, etc. Write today for FREE Booklet. Learn how to make upright supports *everlasting*. Get book—"How to Build Cement Floors and Foundations."

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Be sure to see our wonderfully complete and interesting Exhibit in the northwest corner of **Machinery Hall.**

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IS SWEET-CLOVER GROWING A FAD?

(Continued from page 3.)

here for our experiment stations to select and fix a type of clover that is superior to the common roadside plant.

The result of this "sweet clover" picnic held on the Coverdale farms was to convince every one of the 500 hard-headed farmers that there is something to all this talk about sweet clover. In carrying on his work as a crop expert in Clinton county, Mr. M. L. Mosher had convinced farmers of that county that more attention must be paid to legume growing in the future than has been the case in the past. Mr. Mosher had induced these farmers to spend a day on the Coverdale farms in order that through their own observations they might be convinced that legumes actually benefit land. They found here cornfields showing every prospect of a seventy-five or even a 100-bushel yield, following a crop of sweet clover. They found thrifty live stock on these farms and viewed many fields that would produce an income of $100 per acre from seed alone, and bear in mind that these fields have previously yielded a cutting of two or two and one-half tons per acre. With these convincing lessons before them it is not surprising that the great majority were convinced, even against their will, that this so-called weed after all has an economic value that gives to it an important place as a soil renovator and as a revenue producer among the crops of the state.

INTERNATIONAL EXPOSITION ENCOURAGES HORSE BREEDERS.

For the purpose of encouraging horse breeders of the central West to produce more and better draft horses, the International Live Stock Exposition has inaugurated a sale and exhibition of grade mares and geldings, on a scale that has not hitherto been attempted in any country. At the 1913 exposition ten cash prizes will be given for single draft geldings or mares weighing over 1,800 pounds, shown to wagon. The first premium on this list is $150 and the tenth $25. Similar premiums are given for pairs of draft mares or geldings weighing over 3,600 pounds shown to wagon.

If Shire grades should win the first premium J. H. Truman & Son will give a sterling silver plate valued at $100, in addition to the cash premium, while if the winners are Percherons Mr. Fred Pabst offers a sterling silver plate valued at $100. J. Crouch & Son will give a sterling silver plate valued at $100 if the winners are Belgians and Mr. Henry Lefebure, of Fairfax, Iowa, will also add $100.

There is another feature of interest to breeders of draft horses. The International proposes to specially encourage horse breeding in those states which furnish the winners in the single mare or gelding classes in the 1913 exposition. To this end $150 will be distributed at the 1914 fairs to those states which furnish the winners in single mare or gelding classes.

INTERNATIONAL PRELIMINARY CLASSIFICATION LIST.

The dates for the coming International Live Stock Exposition in Chicago are from November 29th to December 6th. Entries close November 1st in the individual classes and November 22d in the car-load classes.

At this time we are able to announce that the preliminary classification list is ready for distribution. The classification is more liberal and complete this year than ever before, particularly so in the case of the draft horse classes and classes covered by ponies. There are futurities in Clydesdales, Percherons, Shires and Belgians and these classes should interest all draft horse breeders. A copy of the classification list will be sent free to all who will apply for same to B. H. Heide, secretary International Exposition, Union Stock Yards, Chicago, Ill.

T. H. Campion, principal of the La-Crosse county agricultural school at Onalaska, who succeeds F. E. Balmer, has assumed his duties at the school. Former Superintendent Balmer has accepted a position in the agricultural department of the University of Minnesota.—[Wisconsin Farmer.

How Cribbing is Done Without Scooping!

HERE is a truthful picture of a scene on thousands of farms every year. It illustrates how work, time and money can be saved by *any* farmer grain who now cribs corn and small grain by scooping. It shows how the "Little Giant," the famous 4-wheel Green Machine, dumps and elevates a 60-bushel load of corn in 3 to 5 minutes. It shows how to cut out the back-breaking wear and tear on your health *by eliminating the scoop shovel.* And the farmer in the picture illustrates how much easier it is to *watch* than to *work.* You need

The "LITTLE GIANT" Four-Wheel Green Machine Portable Elevator

Think what it would mean to you to drive on a jack, from either side, throw a lever, start horse or engine power and up goes the load, right into the crib, distributed to any part of the bin you desire. There isn't a bit of hard work to it—all done by *other* power than that produced by your own muscles.

And think what a saving in *time* that means! Think how easy it is to *get good huskers for less money*—they work for less where there's a "Little Giant" to do the back-breaking work. And they do 20% more work in less time.

We have demonstrated—and we have the proof—that the "Little Giant" makes money, saves work and saves time for the farmer who has 40 acres or more of corn to crib. Let us send you all the facts, figures and proof. If we do not convince you of the practical investment—value of the "Little Giant" we lose. You take no risk in writing us. We know what the famous 4-wheel Green Machine is doing for thousands of others and we know it will do as well for you. Will you give us the chance to *prove* that you *need* the "Little Giant" if you want to obtain your greatest possible profits.

Get All the Facts NOW

The "Little Giant" is a *business* proposition. It is an *investment,* the best you can make, because it's money safely spent and pays the biggest interest. It will last a lifetime with ordinary care because it's made of the best and strongest lumber and steel. Has many advantages over all others—features like the Friction Clutch Steel Pulley. Can be furnished with jack and wide-wheeled portable derrick. Elevator has tight bottom to save loose grain—whole outfit can be folded and moved or stored easily, anywhere. Shelled green corn and silk in the crib means rattage and molding. Our new screen feature in bottom section separates it from the ear corn and saves it for feeding.

But write for our book and *read* all the facts. You will be *glad* you sent for our catalog and we'll be glad to send it to you. Mail the coupon or a postal right now, before you forget it. Ask for Free Book of Crib Plans if you are going to build or remodel your cribs. Address

PORTABLE ELEVATOR MFG. CO.,
155 McClun Street Bloomington, Illinois

FREE BOOK COUPON

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I am interested in your "Little Giant" Portable Grain Elevator and Wagon Dumps. Please mail me the book checked below, free.

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Put an X in box to show us just what book to send you.

Fully Equipped **$850 - Detroiter - $900** Special Equipment

The Car that Starts New--and Stays New

Most 1913 automobiles have only improvements designed the year before—they are really 1912 models. But Detroiter cars are not season cars at all. Improvements are incorporated immediately. When you buy a Detroiter, therefore, you get a car that is literally up-to-the-minute.

Nine Standard Big Features.

In every main point the Detroiter sums up the best. The average price of cars with full floating rear axle, platform rear springs, long stroke motor, multiple disc clutch, and surplus braking power is $3,555.80. The Detroiter has these five features and four besides at $850 and $900.

Because of its correct design, high-grade material and big structural features, the Detroiter lasts. It is of comparatively light weight. The platform springs lessen shock and vibration so destructive to other cars. All in all, the Detroiter is essentially a car that stays new. It is an ideal car for country driving.

A Beautiful Car, Too.

As for beauty,—well the Detroiter is a car any man might be proud to drive. It holds its own with the most expensive cars.

We want you to see a Detroiter. We want you to ride in it. Your name on a post card brings you the opportunity and a handsome catalog

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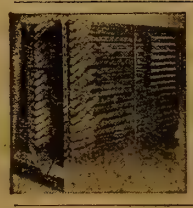

WINTON SEED CORN RACK

Only rack made suitable to use in connection with tester. See it at Iowa State Fair.

Reliable Agents Wanted

Crenshaw Mfg. Co.
ADEL - - - IOWA

ALFALFA $7.50 Per bu.

Best Non-Irrigated Seed—99.6% Pure

95% germination $9.75. Absolutely guaranteed. Northern grown, extremely hardy. No seed better. Have Turkestan alfalfa, grass seeds all kinds. Ask for our Latest 60 p. Book on growing alfalfa, Catalog and Samples. All Sent Free. We can save you money. Write today.
A. A. BERRY SEED CO., Box 403 CLARINDA, IOWA

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THE BEST FAIR FOR THE SALE OF PURE-BRED STOCK IN AMERICA. NEW STOCK BARNS AND PAVILION

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When writing to advertisers please mention The Homestead.

Improving Farm Conditions

TO induce people to remain on or return to the farm we must improve the conditions of rural life. To attract people to the farm we must make the farm more interesting, more remunerative, more free from excessive hard work and drudgery for male and female.

This must be done, or we will soon find ourselves producing less of the prime necessities of life than are required for home consumption. This condition would mean, first, weakness, then distress. That nation only which produces a surplus of life's necessities which other nations must come to it to obtain or go hungry and unclothed is in a position of supreme power. The chief factors contributing to the creation and, in some instances and portions of the country, restoration, of ideal rural conditions, would be: First improving the intellectual and social life; second, diminishing the burdens and hardships and inconveniences; third, increasing the returns from the labor expended and capital invested.

Sufficient schools, churches, good road, telephones, rural free delivery of mails, and increased transportation facilities, are slowly but surely supplying the first and second factors. Some other elements are needed, or some stimulation and extension of those mentioned.

I would suggest the formation in every county of a chamber of agriculture. Such societies for the county should be somewhat similar to boards of trade or chambers of commerce now established in the cities showing enterprise and progress. I would have such organizations authorized and directed by law. Perhaps some adoption of the act of 1894 under which such chambers of agriculture were established in Prussian provinces is feasible. They would have the care of all matters pertaining to agriculture and forestry in their districts, with specific regard to more complete co-operative organization of farmers. I would have these chambers officered by the most progressive and successful farmers and managed by experts. They woud discuss, plan, direct and promote agricultural operations and development in their respective areas. They would be active, dynamic forces giving life, energy and enthusiasm as they worked out the advancement, both technical and economic, of agricultural interests which they would officially represent.

Other German states have followed the example of Prussia in establishing these agricultural societies, and I can see how they might become of very great usefulness and benefit in solving the problems of the farmer. The average farmer in the United States earns about $700 per annum—less than $2 per day. That is, he realizes that much in gross returns from his toil and capital, after taking all the chances and working longer hours and harder than he would work in almost any other occupation.

It takes the farmer about ten hours of labor to earn $1, whereas the man on the railroad which carried his product to market earns $1 in about two and a half hours.

The situation is discouraging to our young people.

While the consumer complains about the price he pays for farm products that complaint is not to be lodged against the farmer—the producer. Somewhere between the farm and the dinner table billions of dollars, probably seven billion, disappear annually. Some portion of this belongs to the farmer. Some portion of it belongs to the consumer. We must solve this problem of distribution which today is absolutely unsolved in this country. This would aid in meeting the third requirement mentioned. Another thing is needed to complete the factor.

The total agricultural debt in this country is estimated to be about five billion dollars, divided as follows:

Secured by real estate mortgage, 55.9 per cent;
Secured by chattel mortgage, 14 per cent;
Secured by cotton crop liens, 7.8 per cent;
Secured by crop liens (other than cotton) 9 per cent;
Unsecured, due local merchants 5 per cent.

The farmers are paying from 6 to 12 per cent per annum interest on that five billion dollars; say an average of 8 per cent.

In most European countries for a great many years the farmers have not paid over 3½ to 4 per cent interest. By establishing a proper financial system, by organization and co-operation in dealing with cultivation, transportation and marketing, our farmers can save, not only $200,000,000 a year in interest, but they can increase the yield from their toil, the returns from their products and supply the comforts and conveniences of homes such as they ought to have. One thing to do is to devise a plan or system whereby their lands can be utilized as an asset when needed, at their value. Remove the ban on real estate as commercial security. Have their open accounts in their own banks and finance their own operations.

The American Commission, assembled under the auspices of the Southern Commercial Congress, and the Federal Commission co-operating with it, are now in Europe, studying diligently the systems which have been practiced in those older countries, which have been obliged to meet these difficulties years ago, and it is confidently believed the report from these commissions will produce epoch-making results in the advancement of our agricultural interests. Not only will a wise, workable plan of rural credits greatly benefit the farmer by enabling him to get what money he needs at a low rate of interest, but it will encourage saving and thrift, introduce business methods in agriculture, and go a long way toward solving the problems of monetary reform, high cost of living, and of the trusts in respect to agricultural products. In addition to improving and extending the influences making for unfolding the first and second elements above set forth, as applicable to them as well as the third, the new proposals I would offer, therefore, are:

A. The establishment of chambers of agriculture in the counties.

B. A system of rural banks, or agricultural credits, or farm finance, whatever you may designate it, by which, in conjunction with other co-operative organizations, the farmer will be able to save enormous sums now going as interest, profits to factors, and the like, such as no other industry could stand, have his open account at the bank, available as needed, his lands recognized and treated in the money market as an asset at its real value, with a basis of credit similar to the man engaged in business, enabled to so finance his affairs as to save himself from being obliged to dispose of his products at the lowest prices ever prevailing, and buy all his supplies always at the highest, time prices, and otherwise, in co-operation with his neighbors, finance all his operations, himself.

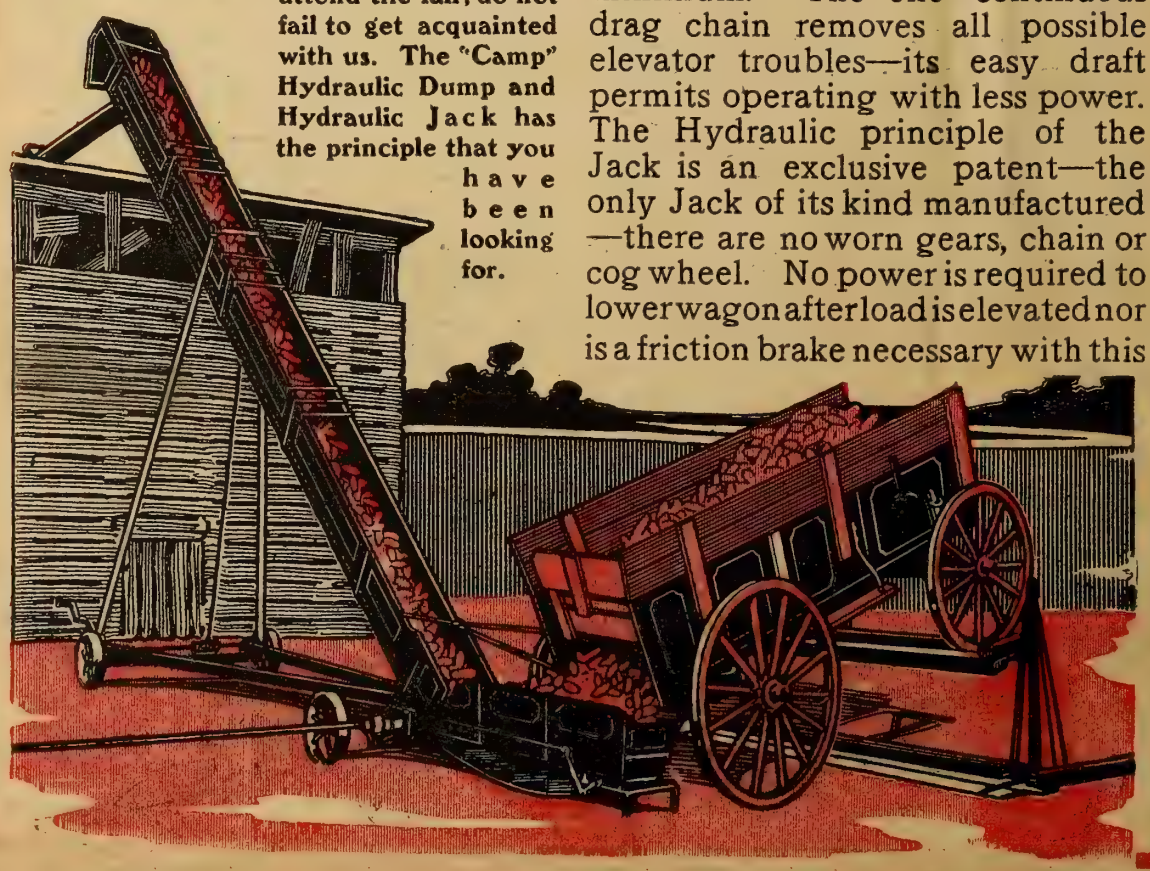
I might make the further suggestion that this principle of co-operation would make immensely to the relief of the women folks of the farm.

When the farmer takes the milk to the co-operative dairy he should carry the household laundry to the co-operative laundry and save the housewife that burden and dread, "washing and ironing."

As matters are now, why women and men will congregate and struggle along in crowded and unhealthy situations, in the cities, shortening their lives and dwarfing their posterity, when pure air, bright sunshine, wholesome water and at least sufficient food and reasonable comforts are offered in the country, in any and every portion of this land, is beyond my comprehension.—[Senator Duncan U. Fletcher, of Florida, chairman of the American Commision on Agricultural Co-operation and president of the Southern Commercial Congress.

At Your State Fair

Be sure and visit the "Camp" Exhibit. We'll gladly show you why a Hydraulic Grain Dump should be your choice. Our many years of experience makes it possible to offer you an elevator that is positively the most perfect from every standpoint. If you attend the fair, do not fail to get acquainted with us. The "Camp" Hydraulic Dump and Hydraulic Jack has the principle that you have been looking for.



Hydraulic Principle

Simplicity, Strength and Durability

These features put the "Camp" in a class by itself. Once you install this elevator you are certain of satisfaction. The cost of cribbing your grain is reduced to a minimum. The one continuous drag chain removes all possible elevator troubles—its easy draft permits operating with less power. The Hydraulic principle of the Jack is an exclusive patent—the only Jack of its kind manufactured—there are no worn gears, chain or cog wheel. No power is required to lower wagon after load is elevated nor is a friction brake necessary with this

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MARSHALLTOWN -

HINTS ON FILLING THE SILO.

(Continued from page 10.)

the bottom into which should be inserted three or four feet of half-inch gas pipe with threads on one end to turn into the barrel and thus make a water-tight joint. The barrel should be set on a box or something that will bring the bottom up even with the blower opening of the cutter so that the end of the gas pipe will connect with this opening, leaving room to insert the hand and pull out a plug in the pipe. The suction of air will draw the stream of water into the cutter and all the corn will be moistened. The drier the corn the larger the stream of water should be. The cut corn when squeezed in the hand should plainly show moisture over the hand.

Two men should be kept busy inside the silo, one walking around with the distributor, always keeping the outside the highest, about twenty inches and tapering toward the center. The other man also tramps the silage, following the distributor and when on the outside circle keeps one foot sideways against the wall. There is no need to tramp the center very much, as it will take care of itself.

Nine men and a boy to carry water besides the two cutter men are all the help that is needed. Barring breakdowns they will cut from ninety to 100 tons of ensilage in ten hours.

Three years ago this fall I ran a large-size ensilage cutter and filled twelve silos in this vicinity. I found by actual experience that the ordinary man makes too hard work of handling the corn. There is a knack to it the same as everything else and it takes a little practice. I find that the riper the corn the sweeter the ensilage, but it must have plenty of water, because after the heating process there must be moisture left or it will burn out very dark and have a strong odor. I have only had three years' experience with the silo, but the first year I cut the corn too green and the ensilage was a little sour. I do not think there is any danger of getting too much water in the silo, but the stream should always be run through the blower. Water thrown on top after the silo is filled is wrong, because the bottom of the ensilage will burn dry before the water will penetrate to the bottom and sometimes we find a slushy, spoiled mess on the top.

I do not use oats or wheat, or anything like that on top of my ensilage, but I strip the ears from the last load of corn. In this way there is no waste of grain and I figure that the fodder in that load is not worth as much as five or six bushels of oats.

Our experience here is that silos having wood next to ensilage are the only ones that keep ensilage perfectly year in and year out.

G. E. NICHOLS, Cass county, Iowa:—I am a silo enthusiast, perhaps partly because I know what it means to dig corn fodder out of the snow every day of the winter, whether it is stormy or sunshiny. This will be my fourth year's experience with the silo.

I use a stave silo which is well painted on the outside and a few weeks before filling I spray the inside with crude oil which costs from twelve to fourteen cents per gallon. Five or six gallons will do the work on a silo fourteen by thirty feet. The wood at this season of the year is dry and readily absorbs the oil. I find that by this method very little adjustment of the hoops for expansion and contraction is necessary. If a good spring coupling is used on the hoops it will be adequate for this, at least after the first season. My experience has led me to believe that a stave silo constructed of good material and protected in this manner will last almost indefinitely.

We allow the corn to become well developed before cutting for ensilage. By this I do not mean dry, but the ears should be nearly all out of the milk stage and the husks on perhaps half of the ears dry on the outside. By running the corn binder two or three hours the evening before filling we are able, by starting a good team on the binder early the next morning, to keep far enough ahead so as not to interfere with the hauling in to the cutter.

So far I have been able to fill a silo of the size mentioned with one day's work and not a long day either. Our corn is grown only a short distance from the silo. Five men and teams do the hauling, each man loading his own wagon, throwing the corn bundles across the rack so that the butts all lay one way. In unloading the wagons the butts placed next to the machine and the team so stopped that the front half of the load may be taken off first and then step them up for the back half. In this way there will be no high lifting or turning of bundles. Do not tramp over the load. In loading the wagon start from the back end, laying the load up to full height which will be found to be only two or two and one-half feet, then take the load off as above stated from the front end clear down to rack. The rack should be a level platform so that the bundles will not crush down in the center, making a tangled mess which will kill time in unloading.

We use the distributor on the blower and two men in the silo. The feed should be well tramped, especially around the wall. If these little details are followed it is surprising how much feed can be put up in one day with this force of men.

I never use water where the corn is in prime condition, not overripe or badly frosted. Under the latter condition a small stream of water shot into the blower or on the feed just as it enters the rollers, allowing about one barrel to the ton if very dry or less in proportion to the condition of the corn; will be found of great benefit to the keeping of the feed. But I much prefer to fill at the proper time, dispensing with the water altogether.

After filling the silo we run a little straw or sheaf oats through the cutter for a covering. Sheaf oats are ideal for this purpose, as the moisture soon sprouts the oats making a carpet almost air tight.

The only waste of feed we have is a few inches on top and perhaps for a depth of two or three feet around the wall there will be a little mold, owing to the fact that so near the surface there is not sufficient pressure to drive out all the air. If it is desirable to begin feeding at once, of course no covering need be used. However, unless it is to be fed off quite fast I prefer to cover and let stand from four to six weeks until the intense heating process has subsided, after which it will stand exposure to the air much better. If two inches are fed from the surface each day and care taken not to dig down into the feed or unnecessarily expose to the air. It should keep sweet and good. When you get down into the silo where the pressure is greater an inch and a half removed each day does quite well.

There is nothing that will equal ensilage as the basic food for cattle, either in handling beef or dairy stuff. It is not necessary that the ensilage be made up entirely of corn. Any of the succulent feeds such as the clovers or peas may be run into the silo to good advantage, alternating load for load with the corn. The corn helps to pack and the acidity is not quite so great as in the case of filling with clover entirely. The clover should be slightly wilted when run into the silo.

The feed used in addition to ensilage should be varied according to the object in view. I have wintered cattle on ensilage without a bite of anything else and had them fat enough to obtain a ready market in the spring. Although I would advise feeding a variety of foods where it can be had, I have never lost a cow or animal of any kind with impaction of the stomach where a ration of ensilage has been fed. Neither have I had any trouble with scouring where the corn is properly matured. I also feed it to horses and hogs with good results although horses should be fed with good judgment. Some "don'ts" will apply here.

Don't feed horses moldy feed.

Don't feed horses ensilage more than once a day.

Don't feed over twenty pounds to a full-grown horse at one feed and colts according to age.

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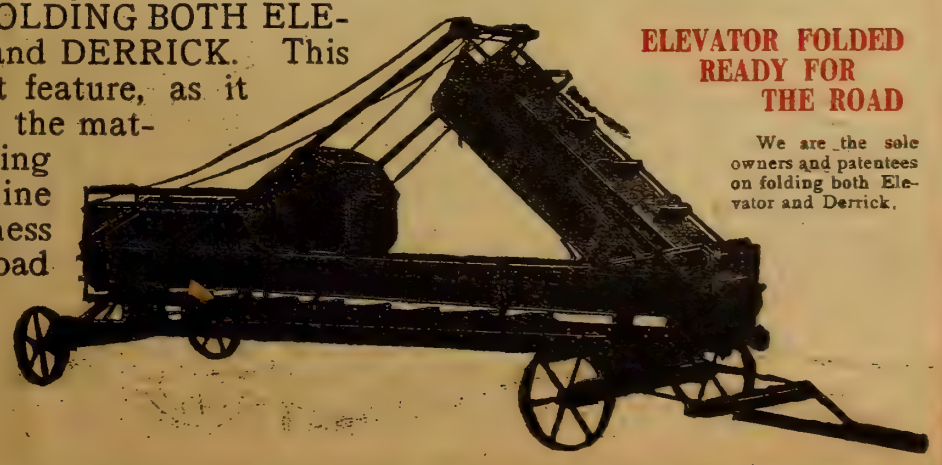

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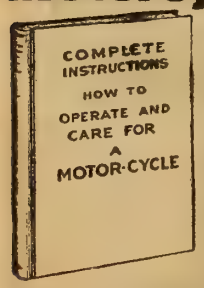

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THE HOME

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AMONG OURSELVES.

A pair of pictures are presented to the circle this week. They are contributed by one of our long-time friends, "Sally Lunn," and will, by their contrast, give a fresh luster to the everyday joys of our everyday lives. These pictures help us to see what we have that is so really well worth while:

ONE DAY OF LIFE CLOSE DRAWN TO THE TENDER HEART OF NATURE.

The soft sweet twitter of a bird, a cool gentle breeze to awaken me from my slumber just as the day is breaking. I rise from my bed and hastily prepare to answer the call of "God's out of doors," to come out and feast my eyes on the glory of the early morning and breathe deeply of the sweet June air that means so much of life to all. The eastern sky is ablaze with the glory of the rising sun, scattering the mists that hang low over the valley. Myriads of diamonds glisten on leaf and blade, and out there among the pine trees feathered songsters carol a greeting to the breaking day. Even the fowls of the barn yard join in the morning chorus. But 'tis not enough to just step out of the door and from there view the wonders of the morning; nature invites me still farther. Come with me and let us follow the path through the meadow and then on into the woods. Oh, what a wonderland they are at this early hour. Every blade and leaf is wet with dew, but never mind if you do get wet, you will feel repaid for all the wetting. Just smell the balm—how the dew brings out the fragrance. See how those oak leaves glisten in the rays of the sun. And there, close by the brook the elders are white with bloom, and, oh, how they make you draw long, deep breaths to get as much of their sweet perfume as you can. Hop vines clamber over the alders that line the bank of the brook. Tall graceful ferns nestle in the cool, moist earth under the trees close at the water's edge. Wild bloom of purple and gold is scattered everywhere, and out there in the open, there among the bogs, like a regiment of soldiers stand the tall green cat-tails. Red lilies lift their stately heads well above the thick marsh grass. Myriads of dainty bluebells hang from slender green stems and there just waking from his slumbers is a big bumble bee. My, what a fuss he makes about getting up so early. Oh, yes, the crows are up, too, or at least Pa crow is and I guess he is scolding Ma crow because she is late with his breakfast. And I fear we will be late to ours if we do not retrace our steps, but let us follow the path along the brook to the bridge and then through the cornfield, all fresh and fragrant in the morning air. Now just a step farther across the pasture lot and then home, and breakfast and various household duties. By this time the sun is high and hot, the birds are more quiet now, the dew has vanished, but come out with me again. We will go to the garden. See those red tomatoes. Don't they look luscious? And those cucumbers and all the other vegetables. See that Swiss chard how crisp and white it stands there. We will gather some for our dinner. And we will hasten dinner that we may go out this afternoon. We will go to the hills and from there view the valley. Yes, this hill is high, but surely you don't mind climbing. It is good exercise and the view from the top will repay for the effort put forth to get there. Now look, oh, just look! Did you ever see anything more lovely? Hills? Yes, lots of them. They rise and fall like great billows of the ocean, encircling the valley. Yonder the village nestles close to the foot of the hills, half hidden among the trees. And farther away toward the west the city lifts its spires. See how the river winds in and out among the trees. The glint of the hot afteroon sun is like burnished gold on its surface. All over the valley we can see the homes of the farmer folk, and here and there herds of the gentle kine feed lazily in the pastures. Isn't it lovely? But our stay must be short, we must be on our homeward way. Yes, it is easier going down than coming up. But I am glad we came. We will return by the clover field, all red with blossoms and pick our way through the brush to the brook and cross right here on this fallen tree. Can't? Oh, yes, you can. Stand straight and step quickly. See! like this. There now; you try it. Look out, you will fall into the water. Here, take my hand. Now come. There you are. Now up this steep bank and then home through the woods and across the pasture lot once more. Here we are and I declare it is supper time. You rest while I lay the cloth for tea and then when it is over we will just sit out in the yard and watch the sun sink away behind the pine trees. See how the shadows lengthen across the lawn. The fowls of the barn yard have gone to roost, the cows are lying down in the lane, the shadows deepen, a faint touch of moisture in the air tells of the coming dew, the birds are silent, except the whip-poor-will who has begun his night song away over yonder in the hills, but he will soon come nearer. Yes, there he is now, up there in that tree, whip-poor-will, whip-poor-will. All night he will sing his queer little song. The light of day has gone, the night has deepened about us, all nature seems wrapped in slumber and now we, too, will lie down and rest with thankful hearts, to the Giver of all good gifts for all He has this day given to us—good night.

ONE DAY OF LIFE CLOSE DRAWN TO THE THROBBING HEART OF THE CITY.

The low rumble of wheels, the clang of the street car gong, and sleep vanishes. Slowly I rise from my bed (rumble—rumble). I look out of my window (clang—clang). How lovely the brick walls look in the morning sun (rumble—rumble). And how fresh the morning air is with the smoke from car and factory (clang—clang). I must hurry and get breakfast—it is late now. I did not like to get up this morning. Somehow I felt so tired (chuck—chuck—rumble—rumble). But I must get my work done and go to the store for vegetables for dinner. Not an extra good assortment on hand this morning, Mr. Groceryman. How do you sell them? (Chuck—chuck—clang—rumble.) These onions are five a bunch, radishes the same, tomatoes ten cents a pound (clang), beets (clang). Well, I will take one pound of tomatoes (rumble—rumble—r—r—rum—m—ble) and a bunch of onions (clang—clang—clang). But I must hasten. Oh, dear, it is so hot and dusty I wish it would rain (toot—toot—rumble—clang). I will just draw these shades and keep out the heat all I can (toot—toot—tramp—tramp). I dread to get dinner, it is so hot (clang (toot—rumble—tramp). I must go to town again this afternoon and I think I will take in a few sights. Perhaps it will help me to forget the heat and dust. I will walk down this street past those large stores. How lovely the windows look! See those trees—I mean suits, just the latest styles, so close fitting, you know (clang—clang—bang—toot—toot), and those flower beds—no, I mean those hats. My! but they (toot) are (bang) great (clang). Is'nt that imitation of rabbit ears just lovely (rumble—rumble—) on that (r—r—r—r—um—m—ble—toot—toot) very large gray turban (chuck—chuck)? But I must be going. I think I will go into the picture parlor. Well, did you ever! Such horrid pictures and such a racket coming in at the door and such stuffy air! I think I will move along and walk down this street and look at more of the store windows. Just see how beautiful the landscape—or decoration, I mean, in this window—some more of those lovely styles in pine trees. Oh, dear! no—I mean suits. But there is a dark green one that in color is like a pine tree, and so slender. I wonder now if it wouldn't just about fit me (toot—toot—bang). I suppose I might walk out to the park and get a glimpse of nature. Well, it sure does look nice out here (rumble—toot—clang—whiz). Those round beds of flowers look so like some of the (bang) large picture (toot—toot) hats in the store windows, and (whiz—rumble—) those tall poplars over there look just like that (whiz—z—toot—toot) beautiful new suit Mrs. M. just bought (tramp—tramp—clang), and just look at that pond! Doesn't that remind one of the ocean? I will just sit (whiz—toot) here on this easy seat and try to imagine I am out in the country (whiz—z—z). My! but I would love to be, but I would not say so to those country people (clang—clang—rumble—toot—tramp). I can sit here and imagine this pond is the ocean and those sparrows are sea gulls and that does help a lot to make it really seem like the country (toot—toot—whiz—z—z). My! but it is hot. Guess I will go home. Think I will take a car if I can get one—here comes one now. I will just hold up my hand and they will stop. These street cars are so convenient and accommodating (clang—clang—rumble—r—um—um—umble). Well, of all the nerve (toot—toot—whiz—z—z)! I wonder do they expect me to swing my arms off. I will try (whiz—z—z—). Well, I nearly got run over then by that horrid auto. Wouldn't have one no how. Here comes another car. I will try for this one. Now see me stop this one (whiz—z—z). Oh, dear! just as I was going to swing my arm that wretched auto had to come along. Now once more I will try for this one. Must I swing my arms off (clang—clang—whiz—z—z)? It's a wonder you wouldn't toot before you are right on to anyone(toot). You toot, will you, now you have gone by (rumble—rumble—clang—clang). Well, I won't try for another. I can get home while I am standing here at the very risk of my life. Well, I am glad I am home and it is supper time, and (clang—clang) after supper I will sit out on the porch and enjoy the quiet (whiz—z—z—toot—toot) evening. How lovely the shadows look as they lengthen against that brick wall (toot—clang—whiz—z—tramp), and the reflection of the setting sun (rumble—rumble—toot—toot—whiz—z) on those windows across the way (rumble—toot—clang—bang—tramp). How the shadows deepen (whiz—z). The night falls quickly (toot—toot—whiz—z—z). How restful and quiet it is (tramp—tramp—clang—clang). This quiet (rumble—rumble) makes me so sleepy (toot—toot). I will retire for the night (clang—clang—rumble—rumble). I know I shall sleep soundly tonight it is so quiet and restful (toot—clang—toot—whiz—z—z—z—rumble—toot—tramp—whiz—whiz—z—z—z). Asleep. Fitful slumber—restless dreams.

The corn relish is sent for your cookbook by "C. R.," and the cream puff recipe comes from Grace D.:

Cream Puffs.—One cup of boiling water; one cup of butter; two cups of flour. Let the water boil with butter, then stir in the flour; let cool; add five eggs stiffly beaten; beat well; drop in muffin rings; bake one hour. For filling: Heat one pint of milk; beat one-fourth cup of flour; one cup of sugar and two eggs together; add this to the milk and boil three minutes; fill puffs with this cream when ready to serve. Corn Relish.—One dozen ears of sweet corn; one head of cabbage chopped fine; one red pepper, more if not too strong; one cup of sugar; one tablespoonful of salt; one tablespoonful of mustard; one teaspoon of celery seed; mix; cover with vinegar and boil twenty minutes; can in pint cans. This is fine, keeps well and is good to use any time of the year.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Give truth and your gift will be paid in kind,
And honor will honor meet;
And a smile that is sweet will surely find
A smile that is just as sweet.

Has someone been "mean" to you—someone who, you thought, was the salt of the earth? Thank the Lord there is a cure for broken hearts. It is work, work, work. In the future are joy and peace for you, but you have got to work for them; they never come to the blue, lazy, whining individual. Brace up!

MOTHERS! ATTENTION!

An overtired mother cannot make sunshine in the house. Try to take half an hour of complete rest some time during the afternoon. If you were ill the children would have to get on without you. Leave some things undone while you sleep.

LAUNDERING SUMMER DRESSES.

Before the dresses are washed the colors should be set as much as possible. Pale blue dresses should be soaked at least two hours in water containing sugar of lead. Use one ounce of the lead to one pail of boiling water, and be sure that the lead is entirely dissolve before the waist or dress is put into the water, or streaks may be the result. Do not put in the gown until the water is tepid. Heat is destructive to delicate tints. After soaking the gown the required time, carry the tub to a shady snot, put the dress on the line without wringing it, and let it get entirely dry before washing it. Other delicate shades may be treated in the same manner, but common table salt will usually set green, lavender, pale green and yellow. Use a teacupful of salt to a pail of water. If the dress is only slightly soiled, soap need not be used. Bran, potato and rice water are excellent substitutes. To make bran water boil two quarts of bran in two gallons of water; when cool strain it, add one tablespoonful of borax to the liquid, and use it in place of soap suds in which to rub the goods. Rice water is made in much the same way, by boiling one pint of rice in a gallon and a half of water and straining it. To make potato water, grate raw potatoes to a soft pulp; add water in the proportion of one pint to a pound of potatoes; pass the mixture through a sieve, and when the potato pulp has settled, pour off the water and use it. If soap is needed, use a mild, neutral one. Hang all delicately tinted dresses in the shade. Many colors that will stand washing will fade badly when exposed to the direct rays of the sun.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

THE SKY.

(First Prize.)

I love all of Nature's works, but I think the sky is the most wonderful. It is Nature's great picture-book The clouds are the pictures. Some are painted beautifully, while others are the purest white.

There are no two pages alike in this great book. Nature turns the pages often, for every time we look at the sky there is a different page covered with hundreds of beautiful pictures.

Most people just look at the sky once in a while to see if it looks like rain, but I think we should look at the sky more than we do, for why does Nature carve the clouds into such wonderful statues and paint them such

beautiful colors if she did not mean for us to look at them?

—Mildred England, Age 13.

How We Made Some Games.
(Second Prize.)

My sister and I have lots of fun playing, but we wanted some more games. I am going to tell the cousins how we made a set of croquet and a game of jackstraws.

One evening when sister Hesperia and I were playing marbles, I said, "Let's say that when a marble hits another it gets two trials at getting on the line."

Hesperia studied a while and then said, "No, I have a better plan than that." She did not tell me what her plan was, but went into the dining room and brought out some toothpicks.

By this time I knew what her plan was and suggested pins would be better, so we hunted up twenty pins. Two of these served as stakes, the rest as arches. About this time two of the neighbors, Mildred and Ferryl, came over. When Ferryl saw what we were doing she went home, saying she would be back in a minute. When she came beck she too had a croquet set made of pins and wire. The next morning Mildred made her a set.

Now we began to think what we would do for mallets. Ferryl and Mildred had each had a parlor croquet

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Set, so they used the mallets of these, although they were a little large for the balls, which were marbles. As Hesperia and I had no mallets we used a hammer.

Now I am going to tell you how we made our jackstraws. Ferryl has a game of jackstraws that we play with often. So one time I got a few toothpicks and tried to play jackstraws. The next time I got a chance I told Hesperia and we went upstairs where we cut and painted guns, canes, umbrellas, and everything else necessary for a game of jackstraws. After that Mildred made a game and then we each had one. Now Hesperia and I are planning for a game of anagrams.

—Beth Em, Age 12.

Bugs.

(Third Prize.)

How many of the young folks have ever taken notice of the worms and bugs that destroy our crops? They are just as bad as weeds and in some instances are worse because they are not so easily destroyed.

Many of us amuse ourselves with a reddish-brown bug which is known as the "click beetle," being so called because when placed on its back it will make a clicking sound and throw itself into the air.

The click beetle seems very harmless, and very few of us would believe we were handling the adult form of wire worms, which is one of the worst insect pests which the farmer has.

There are many other insects which fly in great armies or burrow in the ground to rob the farmer of his crops such as: cutworms, chinchbugs, grasshoppers, potato bugs, etc.

—Buffalo Bill.

PLEASANT FIELDS OF HOLY WRIT
Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON
3d Quar. Lesson 8, Ex. 15, 27-16, 36, Aug. 24, 1913.

THE BREAD FROM HEAVEN.

That march of mystery—Israel's journey through the wilderness. A desert anywhere has a fascinating weirdness. Absence of shade, water, and life make it a phantom place. In these characteristics the Sinaitic Peninsula surpasses all others. No wonder the Hebrews called it great and terrible, a howling wilderness. Such unnatural environment cannot fail to have its powerful influence. The traveler over that route today feels the subtle influence of the place. He can appreciate the depressing sensations of the caravan nation. In addition to these physical discomforts was the fear of enemies. The commissariat problem was also urgent. Under most favorable conditions the provisioning of such an emigrant host would have taxed an expert quartermaster general. But the exigencies of this case make it the most remarkable of its kind in history. For the people in such an environment not to have murmured would have been unnatural. When the subtle effect of the physical scenery, the imminence of attack, and the scantiness of provisions are all taken into consideration, the repining is not a surprise. Yet, in view of the wonders God had done in Egypt, and even already in the wilderness, the faith of the Hebrews should have been more buoyant. Yet fear is the very worst of epidemics. In the shortest possible time the whole nation was inoculated. As always happens under such conditions, the people very much overrated their past advantages. So we find them sighing for the flesh pots of Egypt. As also happens, they underrated past evils. The bitterness of the bondage was softened by the happy release from it. And so the whole congregation murmured against Moses and Aaron in the wilderness. This melancholy stampede was a real disgrace. Had they taken time to consider, they would have found ground for hope. The situation was really not extreme. The Hebrews had brought with them large flocks. They must have found pasture. From this source they would derive milk, butter, cheese. They could have flesh for food, and that, too, without diminishing their herds, using only the natural increase. Other tribes found sufficient means of subsistence in that locality. There are spots even today, in that very desert, where the Bedouins still sow and reap. Again, the Israelites could supply many wants by purchase from passing caravans. It would do them no harm to go on half rations for a while, if necessary. Again, they were not to be always wandering about. They remained months, and even years, in certain localities. So the situation of these emigrants was far from desperate. The long-suffering patience of God had a remarkable example in this instance. A gracious redress of the people's grievance is promised. The last word of the people's complaint is "hunger." God's first word in reply is, "I will rain bread from Heaven." With reference to the nature and origin of manna, it will be found best to take the middle course between the "badly literal" and the "embellishments of wonder-loving legends." There is in this very locality a natural production still called manna by the Arabs. It oozes and distills from the tarfa tree. It must be collected before sunrise, for only then is it found in a coagulated state. It dissolves as soon as the sun shines on it. This natural product seems to be the physical basis of one of the surprising means of sustenance of the wilderness. How far it may have been idealized by a grateful memory, it is hard to say.

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GEORGE P. MACHLI, President, Des Moines, Iowa

IS ALFALFA A MISFIT CROP?

To the Editor of The Homestead:

So much is being said and written about alfalfa that one is apt to infer that it is considered the one important crop in every section of the country. College experts are exploiting it in bulletins. College professors and others are preaching it from special railroad trains and carrying the enthusiasm still nearer to the farmers by automobile, all heralded days in advance in order to reach large numbers of country people. This may be necessary in order to set men to thinking and a few to acting on the advice given, for people reared on farms, in enforced isolation from their kind, are naturally conservative. They do not accept new theories without consideration or begin new practices without reasoning the matter out in their own way. They listen, but keep up an awful thinking. They do not deny the claims made for alfalfa as a soil renewer, or as a ration for domestic animals, for these are matters they are incapable of deciding without an actual trial in the feed lot and on the land seeded to it and afterward used for other purposes. What they want

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to know is "How will alfalfa work in a proper rotation so that all the farm may be kept at its best, and not alone the one field adapted to the one crop so much talked about?" They learn both by inquiry and by actual experiment how difficult and expensive it is to secure a perfect stand of alfalfa and reason from these premises that they cannot afford to plow up an alfalfa field so long as it will produce a profitable crop. The question may be asked "Why should it ever be plowed when once well seeded to alfalfa?" The answer is, "Rotation is the secret of soil conservation. Red clover works into this rotation beautifully. We raise four to five tons per acre with only two mowings, and the next year raise ten to twenty bushels per acre more of corn than by any other method costing the same." I know of my own knowledge that this is true.

On a farm devoted to general agriculture and dairying a proper rotation is a very important matter. On it depends the profitable use of land at its present value because the fertility of the land must be maintained if not increased. Unless alfalfa will take the place of corn, potatoes, and all the sowed crops its place must be confined to certain fields where permanent pastures or meadows are desirable.

According to estimates made by the state department of agriculture more than fifteen and a half million acres in Iowa are devoted to the production of farm crops exclusive of hay and pastures, and more than twelve million acres are in the two crops last named. Alfalfa cannot possibly take the place of these two for the reason that a large proportion of both is obtained from land too low for its profitable culture. The present permanent meadows and pastures are made up largely of lands subject to overflow or are too low to be thoroughly drained. Alfalfa will not do well on either of these, hence it must be confined to corn land.

Corn is the most important crop in Iowa. About nine and a half million acres are devoted to it. It has been demonstrated that corn ought not to occupy the same ground more than two years in succession, hence the necessity of a change of crops. Unless alfalfa will fit into a proper rotation with corn as the chief crop it seems to me that the only place for it is where a permanent meadow or pasture is wanted, using red clover or other legumes for the needed rotation.

I can understand why a farm devoted to dairying exclusively, or one where the production of beef is the chief aim, could be profitably seeded to alfalfa, but for the average farmer where corn is the principal crop, some system of rotation not to exceed four years is absolutely necessary to the maintenance of soil fertility. It is folly to think of putting all the corn land of Iowa into alfalfa, and the latter is not so desirable a crop for a short rotation as red clover or some other soil renewer that is easier to raise.

Iowa. Eugene Secor.

Richards and Roberts, an Oregon firm, have purchased 19,000 head of sheep and lambs near Billings, Montana, which will be shipped to Oregon this fall and be distributed for feeders.

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5996 Children's Dress.—Linen, gingham or percale can be used to make this dress with the collar, cuffs and belt of contrasting material. The dress is made to be slipped on over the head. The pattern provides for a pair of bloomers which are attached to an underwaist.

The pattern 5996 is cut in sizes, 3, 5 and 7 years. Medium size requires 3¾ yards of 36-inch material with ⅝ yard of 27-inch contrasting goods. Price of pattern ten cents.

6246 Ladies' Shirt Waist.—This shirt waist can be used to complete a dress or it can be worn with separate skirts. The long or short sleeves can be used. Linen, madras or silk can be used to make this shirt waist.

The pattern 6246 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2⅝ yards of 36-inch material. Price of pattern ten cents.

6071 Ladies' Shirt Waist.—This shirt waist can be made with or without the box plait at the front. It can also be made with the standing or rolling collar. Linen, madras, percale or silk can be used to make this shirt waist.

The pattern is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¼ yards of 36-inch material. Price of pattern ten cents.

6145 Boys' Suit.—Every small boy needs a play suit and here is an excellent pattern for making such a garment. This suit closes at the back and can be made with either the long or short sleeves. The high, round or square neck can be used. Linen or chambray can be used to make this suit.

The pattern 6145 is cut in sizes 2, 4 and 6 years. Medium size requires 1¾ yards of 36-inch material. Price of pattern ten cents.

5964 Girls' Dress.—The blouse of this dress closes at the left side of the front. The skirt is a three-gored model joined to an under waist. Serge or broadcloth can be used to make this dress with the collar and cuffs of contrasting material.

The pattern 5964 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 2¾ yards of 44-inch material with ½ yard of 27-inch contrasting goods. The under waist requires ½ yard of 36-inch material for the under waist. Price of pattern ten cents.

6024 Misses' and Small Women's Skirt.—This skirt is cut in two gores and can be used for the miss or small woman. It can be made with either the empire or regulation waistline. The closing is at the left side. Linen, serge or cheviot can be used to make this skirt.

The pattern 6024 is cut in sizes 14, 16 and 18 years. Medium size requires 2⅜ yards of 36-inch material. Price of pattern ten cents.

6055 Boys' Dress.—Here is a clever little dress for the young lad. It is easy to make and may have long or short sleeves. The gament closes at the front and a belt holds it in place. The collar, cuffs and belt are of contrasting goods. Any of the popular wash fabrics may be employed.

The pattern 6055 is cut in sizes 1, 2 and 3 years. Medium size will require 1¾ yards of 36-inch material and ⅜ yard of 27-inch contrasting goods. Price of pattern ten cents.

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Ask your neighbor to subscribe for The Homestead.

USING ALL THE CORN CROP.

To the Editor of The Homestead:

Of all things that the farmers are vitally interested in at this time a silo perhaps is foremost. With the rapidly advancing price in land values we will have to take care of all the products of the soil in order to declare a paying dividend on our farms, and as our great crop is corn that is the one crop we must look well to for our profits. It is claimed that by putting corn in the silo that the feeding value of an acre of corn is increased forty per cent. That is over corn that is husked and left for the stock to glean the field and the stalk leaves to leach in the weather. However, I don't know that this is true, but I do know that there is practically no waste where an acre of corn is put in the silo at the proper time. And I do know from observation that a lot of good feed goes to waste every year in our stalk field. An acre of corn that is ready for the silo will make from ten to fifteen, and often more, tons of ensilage, and forty pounds of that silage per day will keep a cow in thrifty condition and with a balanced ration she will make a good gain.

Now let's figure a little and see how much corn it would take to keep a cow in good condition in the average stock field in March. It is very easily figured as to the amount of corn a cow is getting out of the ensilage, as an acre of corn that will make sixty bushels and produce sixteen tons of silage would have 3,600 pounds of corn in it or about six pounds of corn in every fifty-four pounds of ensilage. I am afraid that three pounds of corn morning and evening would only be an aggravation to the cow after she has filled herself up on Northwest wind and corn stalks all day. Of course it takes some labor to take care of the ensilage at filling time, but you are amply paid for that in convenience of having the feed where it can be comfortably handled in all kinds of weather in the winter and spring.

However, I am not getting at my subject. Construction of the silo seems to be a proposition that every man will have to work out for himself according to what will best fit his conditions. There are many makes and kinds. The most common is the wood silo. In Iowa there are a great many hollow brick, or Iowa silos as they are called. In the East there are a great many concrete and some stone silos. All are good when properly constructed. A silo is an air tight compartment. In other words if you can exclude the air it will proceed to hermetically seal itself on top and the heavy pressure will settle it against the side so as to seal it and make it air tight. Now if the walls are air tight your loss will be very small. Wherever you find an air hole in the wall you will find a bunch of moldy silage. Therefore it is a matter of building a good wall of whatever material you expect to use.

As to the comparative cost of these different silos, of course conditions will govern that somewhat as to the material at hand and the cost of labor. I believe the following comparative prices are about right. Stave silos are sold varying in price from $250 to $375 for a 16x32 and 16x36. A hollow brick silo should be built for about $350, some claim for less. Concrete silos generally run in the neighborhood of $400 for the same size. Of course, as stated before, local conditions will govern the price somewhat, as sand and gravel for foundations may be more handy and labor cheaper in some communities than others. But I think these prices are not far off.

I think that concrete or hollow brick is the best construction, as it is permanent and fireproof, and when it is up your repairs are very small, as you have no hoops to look after and there is less danger of them blowing down when empty. Some question has been raised as to the ensilage not keeping so well in concrete and brick as in wood, but I think on inquiry you will find that users of concrete and brick silos will offer no more complaint than users of wood silos. Care on the part of those filling the silo to pack it evenly will probably eliminate all spoiled ensilage if the walls have been properly constructed.

I think it a good idea to go down about four feet in the ground for foundation and by plastering the wall and putting a cement floor on the bottom you have added four feet to the height of the silo at a small cost, as a good foundation is necessary. Over four feet is not advisable as it makes it too high to throw out the ensilage to feed it. I think it advisable to add height, rather than diameter, to your silo for more capacity up to forty or fifty feet, as you have more pressure and can feed off more each day, and that is quite an advantage in warm weather when it starts to spoil on top very rapidly. However, the amount of stock a man has will govern the size of the silo he will have to build. We have an 18x43 on the County Farm and have from seventy-five to 100 head of cattle that we are feeding at this time of year. We experience no difficulty with it spoiling on top. But last summer I was feeding my Holstein dairy cattle, perhaps using one-fourth as much as now, and I found that for summer use a fourteen foot would have been much better.

W. A. Elliott.

The potato tuber moth is working such injury to potato crops in various parts of the country, especially in California and Texas, that the bureau of entomology of the United States department of agriculture has issued a special warning and instructions to potato growers to help them overcome this highly injurious pest. According to the specialists this moth is being rapidly spread over the country in shipments of infested potatoes and by careless methods of using and distributing seed potatoes. The warning is issued at this time in order to enable farmers to take special action with the seed they will use for the fall crop.

LANDS AND HOMES

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Wednesday, September 10, 1913

280 ACRES, farm fully improved; 12-room house, good cattle barns, hog barns, silo, good pastures, farm tiled, splendid water system, orchards, fruit and nicely located in the richest corn and blue grass section of Iowa. The equal of Cedar Lawn has never before been sold at auction in the state. Write for particulars and mention Iowa Homestead.
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L. E. HOLDEN - WOOSTER, OHIO.

HOMES AND INVESTMENTS

AREGARD for the future of your children demands your investigation of the opportunities in Harney county, Oregon, a big territory heretofore isolated and undeveloped, but now about to be opened up by the building of its first railroad. Beat the railroad here and get the advantage of enhanced values upon its completion. Your first step should be to get information through those not engaged in the land business, and you will get the simple, unvarnished truth. Through our map department, we make a specialty of maps and information for the homeseeker and investor at a nominal cost. Pocket map and booklet of information of Harney county, Oregon, postpaid to any address for one dollar.
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WRITE for my large 1913 list of South Central Iowa farms, all sizes, abundance of fruit and water, good terms. The cheapest good land in Iowa today is in Madison, Union and Clarke counties. Address
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RICH PRODUCTIVE 160 acre Red River valley farm, good neighbors, healthy country, fine markets and a bargain at $5,000. Terms, $1,500 cash, balance easy. **FRANK P. CLEVELAND, Owner, 1279 Adams Express Building, Chicago, Ill.**

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FOR SALE—Eastern North Dakota, slightly rolling quarter section: no improvements. One mile from county seat, black soil; town has 5 elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Ave., Peoria, Illinois.

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DIRECT from the owners to the buyers. We will help you save money. **Homeseekers' Information Bureau, Marshfield, Wisconsin.**

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WRITE for my free 56-page booklet of "Corn Land Farms" in Southwestern Minnesota. Delbert U. Weld, Windom Minnesota.

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

23,120 ACRES state land for sale in the Judith Basin of Montana. Fine land for dairying, grain raising and stock. Write to Commercial Club, Stanford, Montana, for particulars.

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200 ACRES improved southwestern Minnesota farm, to exchange for horses or cattle. Price only $45 per acre. G. W. Allen, Canby, Minn.

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MASTIC, Gravel-Coat and Compo-Slate Roofings, all High Grade. "Mastic quality" is well known throughout the country. We ship from here at **factory prices.** These roofings are made for the hardest service and are really better than ordinarily found in the local market. Particularly serviceable over old shingles and other roofings. Wind, Hail and Snow proof. Very pleasing in appearance. Afford a substantial measure of protection against fire. Our selling plan gives the buyer every advantage. Write for samples, prices, references and our recommendation for your particular building. Cheaper roofings if you want them.
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The Ward Fence Co.

IOWA STATE FAIR

LOCATED on Section B, Machinery Ave. Ornamental wire and wrought iron and Steel picket fencing, farm and poultry fencing, gates, etc.
Ward Fence Co., Box 156, Decatur, Indiana

WANTED At once on a five hundred acre stock and grain farm a married man who is a first-class farmer, hog raiser and cattle feeder. Send references in first letter to Box 302, Marshalltown, Iowa.

All Aboard for the Iowa State Fair

Des Moines, Iowa, August 20th-28th

Iowa's Great Annual Fair and Exposition Opens August 20th

This, the Fifty-ninth Annual State Fair, promises to be the best ever held. The wonderful achievements in agriculture, in stock breeding, and in all industrial lines in recent years, make possible this great exposition. As has been so thoroughly proven, Iowa is in the heart of the richest agricultural region in the world, and her great fair cannot be excelled. The management has arranged a wonderful exposition and wishes all Iowa to come and enjoy the fair.

No One Can Afford to Miss This Opportunity to Study Iowa and Her Resources

EVERY FAIR IS DIFFERENT

The man who fails to mark the advancement of agriculture, of industry and of invention as reflected at the Iowa State Fair, falls behind in the race for achievement.

SPECIAL FAIR DAYS

Friday, Aug. 22—Children's Day, Full Program, Races, Concerts.
Saturday, Aug. 23—Des Moines' Day, Big Race Program, Night Show.
Sunday, Aug. 24—Music Day, Liberati and Philharmonic Choir.
Monday, Aug. 25—Implement Dealers' Day, Special Fireworks.
Tuesday, Aug. 26—Old Soldiers' and Pioneers' Day, Reunions.
Wednesday, Aug. 27—State Day, Big Fair Program, Great Racing.
Thursday, Aug. 28—Live Stock Show, Grand Million-dollar Parade.

SUCCESS IN IOWA

How others win, what the State has to offer those who do and dare can be learned at the Fair as in no other way.

Entries, 16,000; Premiums, $76,000; Race Purses, $15,700; Over 800 Car Loads of Exhibits

Come and Camp Out---an ideal way to enjoy a vacation. Study the Exhibits, Watch the Races, Hear the Music, See Old Mexico---the Big Night Show, and the Horse Show at the Live Stock Pavilion. Enjoy the Specialty Acts. A varied and complete program with instruction and amusement for all.

IOWA STATE FAIR AND EXPOSITION, DES MOINES, IOWA, AUGUST 20th TO 28th

C. E. CAMERON, Alta, Iowa, President **A. R. COREY, Des Moines, Iowa, Secretary**

NEWS OF THE SALE RING

Fesenmeyer Makes Great Sale.

The greatest sale held so far this season of any breed was that of Henry Fesenmeyer, Clarinda, Iowa, on August 12th, when he sold forty-seven head of his large-type Poland Chinas at an average of $126. Twenty-four boars made an average of $95.60 and ten head of sows bred to A Wonder made an average of $204.75. The top of the sale was the great Big Joe yearling bred to old A Wonder and she was purchased by John Voris & Son, Woodburn, Iowa, at $400. The top of the spring boar was No. 18, an A Wonder pig and he was secured by George Sefrit, Lucas, Iowa, at $305. It was a great offering and a real and fitting testimonial to old A Wonder, which was one of the greatest sires that ever lived and incidentally to Big Joe, which get were in great demand, and whose daughters topped the sale. Col. H. S. Duncan cried the sale assisted in the ring by W. B. Duncan. Below we list the entire offering:

1.	J. L. Mosely, New Baston, Ill.	$250.00
2.	Amos Coffman, Mt. Sterling, Ill.	140.00
3.	Jack Kinney, Three Oaks, Mich.	102.50
4.	Monroe McCoy & Son, Hepburn, Iowa	182.50
5.	Harry Clayburg, Cuba, Ill.	82.50
6.	John Wagner, Washington, Iowa	52.50
7.	Otto Plageman, Eureka, Mo.	50.00
9.	Homer A. Dailey, Homesville, Iowa	65.00
10.	E. C. Carson, Woodburn, Iowa	75.00
11.	C. F. Gummert, Renville, Minn.	65.00
12.	William Bros., Villisca, Iowa	165.00
13.	N. Van Lint & Son, Pella, Iowa	95.00
15.	John Voris & Sons, Woodburn, Iowa	40.00
16.	S. C. Wycoff, Kellerton, Iowa	85.00
17.	J. H. Bowen, Ipavia, Ill.	65.00
17½.	W. M. Hubbard, Wabash, Ill.	50.00
18.	Geo. Sefrit, Lucas, Iowa	305.00
19.	Jack Kinney	110.00
20.	B. R. Bohsted, Victor, Iowa	50.00
21.	John M. McGody, McIntire, Iowa	40.00
23.	C. I. Sunbury, Prophetstown, Ill.	97.50
24.	Sigel Brown, Reed, Mo.	70.00
25.	M. Sage, Superior, Neb.	47.50
26.	J. Smith, Independence, Mo.	50.00
27.	A. F. Galloway, Clarinda, Iowa	52.50
28.	J. W. Pfander & Sons, Clarinda, Iowa	80.00
29.	Wm. Ferguson, Scribner, Neb.	70.00
30.	John Voris & Son	400.00
31.	Allen Barton, Cooperstown, Ill.	210.00
32.	John Voris & Son	200.00
33.	Henning & Pharis, Belvidere, Iowa	130.00
34.	J. G. Wilmax, Oxford Jct., Iowa	125.00
35.	Sigel Brown	130.00
36.	H. E. Kreek & Son, Oregon, Mo.	125.00
37.	J. G. Wilmax	127.50
38.	D. R. Keefer, Mt. Carrol, Ill.	142.50
39.	D. R. Keefer	200.00
40.	J. W. Pfander & Sons	175.00
41.	A. O. Boyd, Madison, Mo.	202.50
42.	Ungles Hoggette Co., Lincoln, Neb.	92.50
43.	A. O. Boyd	187.50
44.	D. R. Keeper	200.00
45.	Ed Brinkhoff, Galva, Ill.	200.00
46.	J. W. Pfander & Sons	160.00
47.	Lee Dearth, Lenark, Ill.	82.50
48.	O. L. Job, Clarinda, Neb.	57.50
49.	C. M. C. Wilcox, Kirksville, Mo.	112.50

The Pfander Poland China Sale.

Another splendid sale of big-type Polands was recorded for the well-known firm of Pfander & Son, Clarinda, Iowa, on August 13th, when they sold thirty-nine head at an average of $103. The top of the sale was No. 1 of catalog a spring boar sired by Big Ben and out of Mammoth Giantess Equal and he went to the good herd of L. R. McClarnon, Braddyville, Iowa, at $375. His litter brother went to W. C. Deshler, New Weston, Ohio, at $335. It was a great offering of big-type Polands and it was an excellent sale. The boars in the sale made an average of $17,375. The attendance was very good and many held over for the Fesenmeyer sale the day before. Col. H. S. Duncan cried the sale. Below is a list of the entire offering:

1.	W. C. Deshler, New Weston, Ohio	$335.00
2.	L. R. McClarnon, Braddyville, Iowa	375.00
3.	H. Fesenmeyer, Clarinda, Iowa	105.00
4.	B. R. Bohstedt, Victor, Iowa	67.50
5.	Geo. R. Hurbert & Son, Cuba, Ill.	190.00
6.	Archie Davis, Freeport, Ill.	157.50
7.	Robinson Bros., Morton, Ill.	150.00
8.	John H. Dickey, Connersville, Ind.	107.50
9.	A. Schoof, Lostanon, Iowa	85.00
10.	C. W. Phillips, New Sharon, Iowa	95.00
11.	Max Beanblossom, Washington, Ill.	52.50
13.	Robinson Bros.	75.00
14.	A. Smith & Sons, Superior, Neb.	150.00
15.	J. G. Wilmax, Oxford Jct., Iowa	130.00
16.	John Steffin, Andrews, Ind.	85.00
17.	John Voris & Son, Woodburn, Iowa	150.00
18.	H. C. McGath, Foster, Neb.	150.00
19.	Jones & Pike, Centerville, Ind.	105.00
20.	F. M. Staford, Alpine, Ind.	82.50
21.	Robinson Bros.	162.50
23.	Leeper Bros., Graham, Mo.	52.50
24.	Leeper Bros.	50.00
25.	Guy Sickles, Athelstan, Iowa	75.00
26.	W. C. Deshler	90.00
28.	D. R. Keefer, Mt. Carrol, Ill.	100.00
29.	Theo. Martin, Bellevue, Iowa	62.50
30.	R. J. Northwechr, Clarinda, Iowa	42.50
31.	D. R. Keefer	75.00
33.	H. F. Harwell, Memphis, Tenn.	137.50
36.	Theo. Martin	50.00
38.	J. L. Ethington, Clearfield, Iowa	47.50
39.	A. C. Pfander, Lebanon, Kan.	50.00
40.	J. R. Howell	37.50
41.	E. G. Johnson, Clarinda, Iowa	32.50
42.	J. L. Ethington	52.50
43.	C. Pfander	32.50
46.	C. Pfander	32.50
44.	A. Schoof	67.50
45.	E. G. Johnson	32.50

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending August 17, 1913:

The week was excessively hot and generally dry, but the heavy rains on the night of the 10th, and the local showers that occurred on several other days gave sufficient moisture for present needs. The showers on the night of the 10th were better distributed than was indicated by the few telegraphic reports given in the last bulletin, but they were, in many localities, accompanied by high wind and severe squalls which did considerable damage to corn. The worst damage was done over a strip about ten to fifteen miles wide extending from Guthrie to Jasper counties. Within that area corn was badly lodged and some of it was blown down, but much of it is up again, and the final output will not be reduced as much as estimated soon after the storm. Damage was also done by the wind in other sections of smaller area, but the injury to the crop as a whole will be light in comparison to the vast amount of benefit resulting from the abundant moisture. The corn crop as a whole was greatly benefited, but the rain came too late to improve the early corn in the southern counties where the drouth has been severe and of long duration. Late potatoes, garden truck, pastures, meadows, and fruits were also greatly benefited by the rains. Fall plowing has begun.

Geo. M. Chappel, Sec. Dir.

"INGECO" KEROSENE ENGINE

Farm Type 2½ to 15 H. P.

Farmers have been demanding an internal combustion engine to operate on cheaper fuel—here it is.

"INGECO" Kerosene Engines operate perfectly on plain kerosene—the kind you use in your lamps and lanterns. They are real kerosene engines of the "Throttling Governor" type—not a makeshift gasoline engine with attachments and complicated parts for operating on cheaper fuels.

"INGECO" Engines run successfully and economically on kerosene, distillates and other light oils—they are quickly started, safe and have no exposed flame.

Write for catalog—we make just the engine for your use. State what size you are considering.

INTERNATIONAL GAS ENGINE CO.
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Save you ½ on fuel

ELECTRIC Steel Wheels Save YOUR Back

Save draft—save repairs. Don't rut roads or fields. Send today for free illustrated catalog of wheels and wagons.
Electric Wheel Co., 58 Elm St., Quincy, Ill.

ALFALFA

How to grow Alfalfa, how to feed it, how to harvest and care for it. Full information for corn belt farmers who wish to grow this most profitable hay crop will be sent free on application. Also a sample of our extra choice high grade seed.
IOWA SEED CO. Dept. D1, Des Moines, Iowa

THE LIVE STOCK MARKETS.

Union Stock Yards, Chicago, August 16.—Further declines have been effected in the fat cattle market during the week now closing, thoug supply figures considered the trade has not preformed at all badly. Chicago receipts show an increase over 11,000 from the last week, and the Kansas City run has also been numerically heavy, owing to the extermity in which Kansas pasture men have found themselves. Six markets report a combined supply for the week of 161,000, or 9,000 more tha nthe week previous and about the same as a year ago. The supply of range cattle ha bseen light, but the northwestern horizon begins to wear a more beefy appearance. Declines of 10 to 15 cents are shown by the bulk of the beef steers. This loss has been escaped by good yearlings and the best weight steers and qualitied light fleshed cattle that get feeder competition not been involved in the decline. The heason's $9.20 top for prime bullocks was restored at the week's open- The season's $9.20 top for prime bullocks was restored at the week' opening, but it is taking very ripe cattle to demand $9 at the close and finished yearlings will bring the money quicker than thick, fat 1500 lb. steers. Bulk of the beef steer supply has sold within a spread of from $7.90 to $8.75. The week's run been freighted with cattle out of dry territory. How much of this kind of liquidation will be necessary next week depends upon the weather, and a lot of moisture over a wide area of Nebraska, western Illinois, Missouri, Kansas and Oklahoma will be heeded to revive pastures. The trade has no knowledge of an available supply of fat cattle for the next sixty days in excess of trade requirement, but even distribution will be needed. The corn belt is not out of fat cattle, and from now on the range delegation will play a more or less conspicuous part in the trade.

Last week's good closing prices for beef and butcher cattle have not been maintained. On the bulk of the supply current prices are down 20 to 30 cents from a week ago, canners have not lost over 10 to 15 cents, and strictly choice heavy beef cows are little lower. Prime yearling heifers, too, are prize packages and selling about as high as any time recently, $8.70 having been paid this week for straight loads of finished heifer yearlings and mixed yearlings having sold as high as $8.75 to $9. Bulk of the plain to good butcher cows are going within a range of from $5.25 to $6.50 and it is such grades, along with the slippery to fairly good grass heifers, selling under $7.25, that show most of the decline this week. Beef bulls of choice fat class continue remarkably scarce and hold about steady, but medium to good butcher classes are 15 to 25 cents lower, and bologna and common light bulls 25 to 50 cents lower than a week ago. Few bolognas are selling now above $6 and not many beef-bulls above $7, though a prime clas is eligible to $7.50 and higher. Veal calves touched on Tuesday the highest levels reached since last March, bulk of the supply reaching from $11 to $11.40 and $11.50 being paid for numerous lots. Week-end prices are 50 cents to 75 cents below this level, $11 sales having a very scratchy appearance and fair to choice vealers going largely from $10 to $10.75.

Responding to a broadening demand from Indiana, Ohio, northern Illinois, Pennsylvania, Michigan and Wisconsin, sections that have all been visited by generous rains, where pasturage conditions are good and an abundance of rough feed for winter use assurred, the market for stock and feeding cattle has advanced 15 to 25 cents over last week's closing and is showing, on desirable classes, the highest levels touched for a period of six weeks or more. It is a very high market relative to curren fat cattle prices and in view of the soaring market, yet there is promise of continued good demand for some week's ahead as there are many empty spots in which to place thin young cattle and confidence galore as to the destiny of the beef and mutton making industry has been demonstrated by the manner in which corn-belt feeders have invested money in their cattle and sheep recently. The August stock and feeding cattle movement out of Kansas City promises to break all previous records for the month. Omaha is not getting half enough cattle to go around, while Sioux City and St. Paul are bare. Killers are taking nearly everything that will bleed at Chicago and the feeder is at his wits' end and to replenish feed lots and pastures when fat cattle go to market. So urgent is corn-belt demand for thin sheep and lambs that thousands are being bought in Montana and Wyoming to go direct to Michigan, Iowa, Illinois and Ohio. This stuff will not be enumerated in the 1913 marketward movement, but will figure in receipts during the early part of 1914.

Closing quotations on all grades of cattle follow:

BEEF STEERS.

Prime steers, 1300-1700 lbs.	$9.00@9.20
Choice steers, 1250-1500 lbs.	8.85@9.10
Choice steers, 1100-1250 lbs.	8.80@9.00
Good to prime yearlings	8.65@9.10
Medium to good yearlings	8.00@8.65
Common to fair yearlings	7.00@7.75
Good steers, 1100-1400 lbs.	8.50@8.75
Good steers, 1000-1200 lbs.	8.00@8.50
Fair steers, 900-1200 lbs.	7.60@8.00
Medium steers, 850-950 lbs.	7.25@7.60
Inferior steers, 800-850 lbs.	6.75@7.25

BEEF COWS.

Common to fair	$4.85@5.50
Fair to good	5.50@6.10
Good to choice	6.10@6.85
Choice to prime heavy	6.85@7.25
Prime to extra dry fed	7.25@7.85

CANNERS AND CUTTERS.

Inferior canners	$3.25@3.75
Poor to fair canners	3.85@4.10
Fair to good canners	4.10@4.25
Fair to good light cutters	4.30@4.50
Good heavy cutters	4.60@4.80

HEIFERS.

Poor to medium	$5.25@6.50
Medium to good	6.50@7.35
Good to choice	7.35@7.90
Choice to prime	7.90@8.35
Prime to fancy yearlings	8.35@8.75

BULLS.

Canner and poor light	$5.00@5.40
Light to medium bolognas	5.50@5.75
Good to ch. heavy bolognas	5.80@6.15
Plain to good beef	6.25@6.90
Good to choice beef	6.90@7.25
Choice to prime beef	7.25@7.75

CALVES.

Inferior to fair heavy	$5.00@ 5.75
Fair to good heavy	5.75@ 6.50
Good to choice heavy	6.50@ 7.25
Good to ch. stock strs. civs.	6.25@ 7.25
Light skimmers	7.00@ 8.00
Plain to good light vealers	10.00@10.50
Good to prime vealers	10.50@11.00

STOCKERS AND FEEDERS.

Selected, 900 to 1150 lbs	$7.65@8.00
Selected, 650 to 800 lbs	7.50@7.90
Good to choice, 600 to 900 lbs.	7.10@7.60
Fair to good, 600 to 700 lbs.	6.50@7.10
Com. to fair, 500 to 700 lbs.	6.00@6.50
In. to com., 500 to 700 lbs.	5.00@6.00
Good to choice stock heifers.	6.25@6.85
Poor to good stock heifers.	5.50@6.25
Good to choice stock cows.	5.35@5.85
Poor to good stock cows	4.75@5.35

It has been a week of demoralization in the hog trade, prices having been on a continuous tobogan slide up to Friday, when a logical reaction set in. On the low spot, uncovered Thursday, the common price fell down to about $8.04, the lowest since February last. Friday's market was sharply, but unevenly higher, with prcse still averaging 34 cents lower than a week ago and the general average $8.21. A top of $8.90 was made on selected light shippers, but few hogs are commanding $8.75, and for the bulk it is a $7.85 to $8.50 market at this week-end, rough heavy selling in decent sized bunches down to $7.35 to $7.55. Pigs are coming numerously and light, many of them having a diseased appearance. The little fellow are poor property on the market and selling anywhere from 50 cents to $1.25 lower than last week, a common affair light class going at $4 to $5.75 and good to choice at $6 to $7.75.

NATIVE STOCK.

Lambs, good to choice	$7.00@7.50
Lambs, fair to good	6.50@7.00
Lambs, common to fair	6.00@6.50
Lambs, culls	5.00@5.75
Ewes, good to choice handy	4.00@4.25
Ewes, fair to choice heavy	3.75@4.10
Ewes, culls	2.50@3.50
Yearlings, good to ch. handy.	5.50@5.85
Yearlings, fair to good	5.25@5.50
Wethers, good to choice	4.50@4.75
Bucks, fair to choice	3.00@3.75

WESTERN RANGE STOCK.

Lambs, good to choice	$7.15@7.50
Lambs, fair to good	6.90@7.15
Lambs, feeders	6.50@6.85
Yearlings, good to choice	5.40@5.65
Yearlings, fair to good	5.00@5.40

SILVER PINE HEALING OIL

Over Two Million Bottles Sold without a single complaint. I believe it is the Surest Cure on Earth for Barb Wire Injuries, Etc. Leaves Your Valuable Horse for only 50 cents by keeping a bottle for Instant Use. Sole owners International Stock Food Co. - Minn.

The Dependable, Quick Healer for Cuts, Kicks, Injuries by Rusty Nails, Barbed Scratch, Sprains, Swellings, Sore Throat, Muscular Rheumatism, Old Sores and All Flesh Wounds, absolutely preventing blood poisoning. It Saves Life.

Sold on a Spot Cash Guarantee by 65000 DEALERS. ASK YOUR DEALER. Needed on Every Farm and in Every Home for Quick Use. See New Book giving Hundreds of Marvelous Testimonials.

Used in my home and on my "International 1 (35 Horse Farm" the Home of Dan Patch 1:55, Minor Heir 1:59½, George Gano 2:02, Dazzle Patch, etc.

If there is Any Injury it will not Quickly Heal for only 50 cents, I want to know it. M. W. Savage

Let Me Prove To You, At My Risk, That It Is The Cheapest, Surest And Quickest Healer On Earth. Large Bottle For 50 Cents.

ANTIKOL

PREVENTS AND TREATS HOG CHOLERA

*A prominent hog raiser writes us: "ANTIKOL is a reliable remedy.*** I lost in all 40 head of hogs until I got ANTIKOL and haven't lost any since."*

His experience can be yours if you will use ANTIKOL.

Don't wait for hog cholera to appear; use ANTIKOL NOW, according to directions, and you positively prevent it. Send to us for large package, $1.00 postpaid. Agents wanted. Danforth Chemical Co., Leominster, Mass.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - - - LOGAN, IOWA

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FORTY GOOD

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK, BELMOND, IA.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. Have 45 choice bucks, ewes and lambs. Will make a first-class flock for some one to start with. Will sell in one lot or divide to suit purchasers. Address
EARL BLOOM - BRIDGEWATER, IOWA

SHROPSHIRE RAMS AND EWES

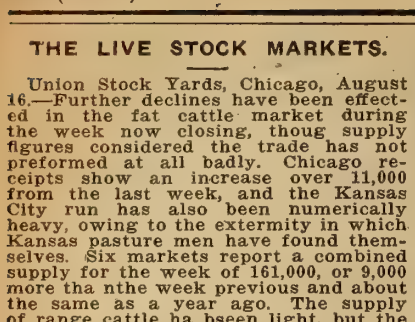
YEARLING, two-year-old and three-year-old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes at best breeding and quality. Williard Miller, R. 2, Anita, Iowa.

RAMS, LINCOLNS, Registered yearlings $25.00 B. F. Clark, Albia, Iowa.



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The Capewell Horse Nail Co.
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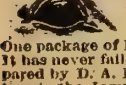
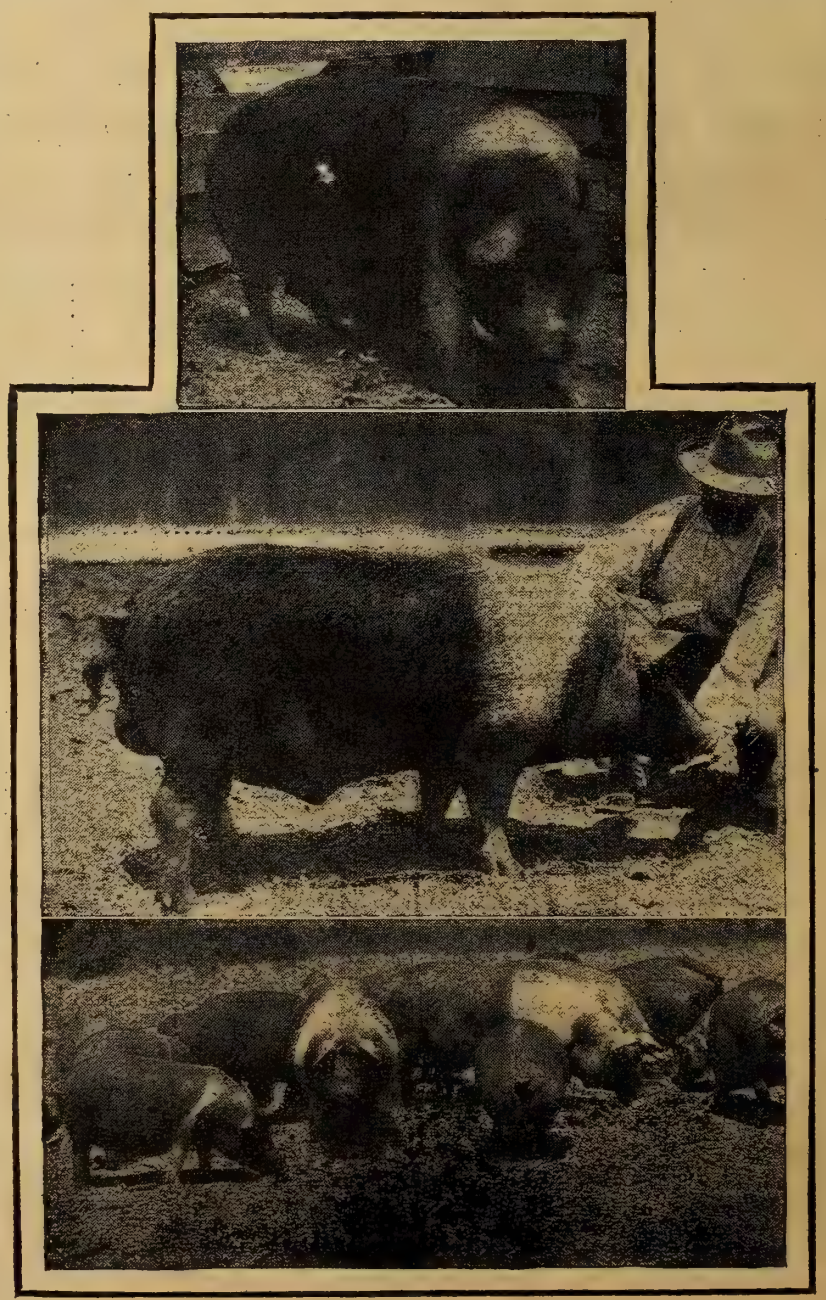


From Periodic Ophthalmia or Moon Blindness

One package of Kent's Medical Formalin will do it. It has never failed. Price per package $5.00. Prepared by D. A. Kent, formerly professor of agriculture in the Iowa State College of Agriculture and Mechanic Arts. Address
D. A. KENT - - - JEWELL, IOWA



REPRESENTATIVES OF DE KALB HAMPSHIRE HERD.

A mature brood sow, a promising herd boar, and some individuals of the herd. See field note on page 27.

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Aug. 22, A. H. Windom, Nodaway, Iowa.
Sept. 10, W. E. Zimmerman, Neola, Ia.
Sept. 16, Fred Sievers, Audubon, Iowa.
Sept. 18, A. J. Podendorf, Logan, Iowa.
Sept. 25, Ring Bros. and A. G. Miller, Newton, Iowa.
Sept. 26, J. H. Cope, Carlisle, Iowa.
Oct. 1, D. C. Lonergan, Florence, Neb.
Oct. 3, H F. Dunn, Clarinda, Iowa.
Oct. 4, Frank Ranier, Logan, Iowa.
Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, C. W. Phillips, New Sharon, Ia.
Oct. 9, S. C. Wyckoff, Kellerton, Iowa.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 10, A. Kool, Cordova, Iowa.
Oct. 10, Williams Bros., Villisca, Iowa.
Oct. 11, Frank Pelzer, Marne, Iowa, sale at Atlantic, Iowa.
Oct. 11, Gilbert Johnson, Osceola, Neb.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, C. B. Powers, Aurora, Neb.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 14, Frank Roberts, Dexter, Iowa.
Oct. 16, F. W. Akers, Laurel, Iowa, sale at Gilman, Iowa.
Oct. 16, T. A. Shattuck, Hastings, Neb.
Oct. 16, Harry Dodds, Florence, Neb.
Oct. 17, Walker & Son, Fairbury, Neb.
Oct. 17, A. M. Joy, Herman, Neb.
Oct. 18, Joshua Morgan, Hardy, Neb.
Oct. 21, C. W. Francisco, Inland, Neb., sale at Hastings, Neb.
Oct. 22, J. T. R. Nash, Minden, Neb.
Oct. 23, T. W. Cavett, Phillips, Neb.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, G. W. Sefrit, Lucas, Iowa.
Oct. 28, R. B. Baird, Central City, Neb.
Oct. 29, Tim Neuhofel, Central City, Neb.
Oct. 29, A. Smith & Sons, Superior, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 1, F. H. Hassler, Manning, Iowa.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams, Villisca, Iowa.
Nov. 6, W. E. Epley, Diller, Neb.
Nov. 6, L. B. Williams & Sons, Villisca, Iowa, (sale at Sciola, Iowa.)
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 8, J. L. Naiman, Alexandria, Neb., at Hebron, Neb.
Nov. 11, R. C. Hollingshead, Russell, Iowa, sale at Chariton, Iowa.
Nov. 12, E. V. Waugh, Greeley Center, Neb.
Nov. 18, John S. Barnard, Nelson, Neb.
Jan. 23, Thos. F. Miller, York, Neb.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 19, C. W. Phillips, New Sharon, Ia.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Sept. 25, E. W. Day & Son, Newton, Ia.
Sept. 29, W. C. Rickey, Thornburg, Ia.
Sept. 30, Waltemeyer Bros., Melbourne, Iowa.
Oct. 2, W. H. Seddons, Persia, Iowa.
Oct. 3, E. E. Handley, Carroll, Iowa.
Oct. 4, C. A. Zellmer, Atlantic, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 8, Wm. Reed, Rose Hill, Iowa.
Oct. 9, H. W. Lineweaver, So. English, Iowa.
Oct. 14, Van Patten & Son, Sutton, Neb.
Oct. 14, S. W. Stewart, Kennard, Neb.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 23, Barker Bros & Crowell, Riverton, Iowa.
Oct. 24, Day & Welsh, Hepburn, Iowa, sale at Villisca, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 29, Economy Stock Farm, Shenandoah, Iowa.
Oct. 30, A. T. Cross, Guide Rock, Neb.
Nov. 10, John T. Higgins, Abilene, Kan.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Wm. Zimmerman & Sons, McNabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Keonig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 3, A. C. Mills, Spencer, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Oct. 30, W. P. Doolittle, Woodland, Mo.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Sept. 19, P. G. Tyrrell, Oxford Jct, Iowa.
Oct. 6, Carey Cameron, Herman, Neb.
Oct. 9, Miller & Northy, Morley, Iowa.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 13, S. F. Lockridge, Greencastle, Ind.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 16, F. W. Akers, Laurel, Iowa, sale at Gilman, Iowa.
Oct. 16, R. W. Botts, Plymouth, Ill.
Oct. 21, C. J. C. Cold, Berlin, Iowa.
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16-17, C. A. Saunders, Mgr., South Omaha, Neb.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Aug. 29, George Leigh & Wm. George, Aurora, Ill.
Oct. 21, C. A. Tow, Norway, Iowa.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 24, J. B. Ashby, Audubon, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Holstein-Friesian Cattle.

Oct. 1-2, S. T. Wood, Painesville, Ohio.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Oct. 1, J. R. Horswell, Estherville, Ia.
Oct. 15, Escher & Ryan, Irwin, Iowa.
Oct. 16, John Cash, Jr., Parnell, Iowa, sale at Williamsburg, Iowa.
Oct. 28, Combination Sale, Chicago, M. A. Judy, Mgr.
Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.

Percheron Horses.

Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hagarty, (sale at Stanwood,) A. J. Glick, Mgr.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201 Washington Building, Madison, Wis.

FIELD NOTES.

Bargains in well-bred Galloway cattle, both bulls and females, are offered by James P. Milliken, Media, Ill., whose advertisement appears on poge 31.

C. E. Bontrager, Nodaway, Iowa, will hold a public sale of Jersey and Guernsey cows and heifers September 3d, as per announcement on page 13 of this paper.

Good Chester White spring boars are advertised for sale by A. C. Orme, Nodaway, Iowa, on page 29. He is making thirty-day special prices if ordered now. Send him an order at once.

Henry E. Wegter, Sheldon, Iowa, advertises some good fall and spring Duroc Jersey boars for sale on page 31 at from $25 to $40. Get an order to him at once and get one of his best.

H. L. Faulkner, Jamesport, Mo., the breeder of spotted Poland China hogs prices his May and June pigs in his advertisement on page 30 and if you want the famous Highview kind you had better order now.

McLaughlin Bros., Sublette, Ill., have herds of Poland Chinas and Duroc Jerseys. They have 140 spring pigs of both breeds and would be pleased to hear from anyone in the market for Duroc Jersey or Poland China boars.

On page 28 of this issue of The Homestead a coach horse is described and priced by Amos Hanson, Collins, Iowa. It will be worth time and stamp to write Mr. Hanson for further particulars if in the market for a coach horse.

Sixty-five head of registered Holstein-Friesian cows and heifers are advertised for sale by the Rock Brook Stock Farm, Station B., Omaha, Neb., on page 13. Get their prices on these at once or go and see them. Please mention The Homestead when writing them.

Twenty choice Duroc Jersey fall boars are advertised for sale by G. E. Everts, Audubon, Iowa, on page 31 at $25 to $50. He is also booking orders for spring boars at from $25 to $35. Don't you lose any time in ordering one of these boars, as now is the time to get one and get him right.

Fall plowing is best done with a plow that does good work. The advertisement of the Best Ever sulky and gang plows which appears on page 20 of this paper sets forth the merits of the Best Ever in a very thorough and complete manner. It brings out particularly the fact of light draft, ease of operation, durability and acme steel shares. Prices or other facts may be learned by writing to Moline Plow Company, Dept. 11, Moline, Ill.

If you want a good Duroc Jersey boar read the advertisement of Heiko Gruis, George, Iowa, on page 31. He is making the special price of $25 and $30 on these boars as long as they last. Get your order to him at once and secure one of these good boars before the best of them are picked over.

Frank P. Healy, Bedford, Iowa, prints Short-horn catalogs and is prepared to do work not only quickly, but well. There is no one who has a more extended experience in Short-horn pedigrees than Mr. Healy and none whose information is of a more dependable character. Mr. Healy breeds Short-horn cattle and has a few pure-bred Scotch heifers for sale.

A recent letter from T. S. Simpson & Sons, Aurora, Ill., advises us of the shipment of thirty head of ponies to a buyer at Dorchester, Neb., eleven to a party in Hurley, S. D., five to Landsdale, Pa., three to Butte, Mont., and the receipts of orders for twenty head to go to Texas and two car loads of export high-class Shetland ponies. See their advertisement on page 28.

The Sandwich Manufacturing Company has an advertisement on page 10 which enumerates the advantages to be secured through the use of the Sandwich cypress farm elevator. This device is designed for elevating corn into the cribs or small grain into bins. It does it quickly, easily and economically. For special prices write to Sandwich Mfg. Co., 170 E. St., Sandwich, Ill.

Prof. D. A. Kent has succeeded in formulating a remedy for periodic ophthalmia or what is commonly called moon blindness in horses. The formula contains no poisonous substances. It is a scientific mixture of reagents, germicidal in proporeties, but containing none of the corrosine or poisonous compounds ordinarily used in the destruction of bacterial forms. See advertisement on page 24.

Iowana Berkshires have all been given the simultaneous treatment to immunize them against cholera. The richest breeding known is found in abundance in this herd, and over 500 pigs are now on the farm from which to make selections. There is no want in the Berkshire line that cannot be satisfactorily filled at Iowana. The advertisement appears on page 29.

George H. Lee & Company have for many years been engaged in the production and sale of remedies of value to farmers and stock raisers. Just now Germozone, manufactured by the Lee Company is attracting wide attention. It is prepared for the purpose of encouraging thrift and laying qualities in hens. The advertisement gives some important information concerning it and quotes price. Orders may be forwarded to Geo. H. Lee & Co., Omaha, Neb.

Peter Streit, Sublette, Ill., has an excellent herd of Duroc Jerseys at the head of which is P. S. Wonder, a four-year-old son of Crimson Wonder and H. A.'s Queen. This is one of the good boars we have seen in our travels and will weigh 900 pounds at the present time in nice breeding condition. Mr. Streit has some good spring pigs sired by this boar and some by Model Profit, a son of Model Wonder and a litter by Sensation Wonder, Ames Col. and S. E.'s Premier Col.

The illustration in the advertisement of the Universal Portland Cement Company on page 13 plainly illustrates the saving that may be effected through the use of concrete feeding floors. The Universal people have prepared and printed a book which illustrates various concrete-made devices that may be of use on the farm and describes their manner of construction. It is worth sending for by every farmer. It is free. Write for it to Universal Portland Cement Co., 72 W. Adams St., Chicago, Ill.

Henry Moll, Garner, Iowa, advises us that he wishes to dispose of his Poland China herd boar, Long Victor 2d, a last March yearling weighing better than 400 pounds. This animal is sold only for the reason that his owner having but a small herd wishes to reserve his gilts and cannot use him longer. He is right in every way. He is a grandson of Big Victor and carries other blood lines that are equally as popular. Mr. Moll also has for sale one winter boar pig and several winter gilts as well as some March gilts. All of these are growthy, thrifty and will be sold at reasonable prices. The winter pigs are by Big Surprise 3d, a 900-pound hog. Their dam is a daughter of Fisher's Chief Price, he by Chief Price 2d. The March pigs are big, thrifty fellows with plenty of bone, length and quality. They are by Big Surprise 3d and their dams are by Black Victor, he tracing to Corn Belt Expansion. For any additional particulars write to Henry Moll, Garner, Iowa. See page 30.

John Leitch & Sons, proprietor of the Avondale Stud of Clydesdales, Lafayette, Ill., write that they will exhibit their horses this year at Indiana, Illinois and Michigan State Fairs. They say: "Our horses are coming through the summer in fine shape, and the animals in our recent importation are taking on flesh readily. From aged stallions down they are all up to the Leitch standard. In aged stallions Regal Style, Benwell and Strathbaan head our list, the first two descendants of Baron's Pride and the last animal named a grandson of Hiawatha. Regal Style won the aged class and championship at the Indiana and Illinois State Fairs last fall. Our three-year-old Lord Marshall weighs 1,800 and has the action of a Hackney. We have some outstanding two and three-year-old horses that must be seen to be appreciated, while our mares are top ones in every way. We recently sold a choice three-year-old stallion to the Algona Horse Co., Algona, Iowa, and a grandson of the great Darnley went to F. Nieman, Freeport, Ill."

At the recent Canadian Industrial Exhibition the Clydesdale stallion, Charnock, by Criterion, was first in class and grand champion stallion of all draft breeds. This great horse is owned by Alex. Galbraith & Son, De Kalb, Ill.

The Cyclone corn husker and shredder is advertised on page 8 of this paper. This machine was constructed with the particular aim of satisfying the demands of the farmer and its simplicity is such as to enable any ordinary farmer to operate it successfully. It requires but from six to eight horse power, although it is made in larger sizes. The Cyclone has been in successful operation for eighteen years. The manufacturers also make the Rosenthal feed cutters and silo fillers. For catalog address Rosenthal Corn Husker Co., Box 30, Milwaukee, Wis.

H. Lenz, Lansing, Iowa, advertises Poland China hogs on page 27. Mr. Lenz has for sale more than 100 head of pigs, male and female, and ranging in age from those of fall farrow to last April pigs. There are fall and spring boars by Big Hadley, an old standby that has been in service in the Lenz herd for five years and that has a remarkable record as a getter of pigs that are popular with buyers. There are also spring pigs by Big Bug and Winn All, both of which are good yearlings. Mr. Lenz informs us that his pigs have size and quality and that they will be sold at reasonable prices.

Red Polled Heifers for Sale.

If any of our readers want to purchase some good Red Polled heifers, Frank J. Clouss, Clare, Iowa, has them for sale. These are bred and safe in calf to his champion bull, Ruperta's Goods, so you will therefore know they are bred in the purple and are all right. If you want Red Polls write Mr. Clouss and kindly mention The Homestead.

See King Gano at the Fair.

Duroc Jersey breeders will be interested in the great boar, King Gano, that O. E. Osborn will show at the Iowa State Fair next week. That he is a good one you will say when you see him. He is a son of Col. Gano, and is one of the best that great boar has ever sired. Make it a point to hunt up O. E. Osborn when you go to Des Moines next week and see this great young boar.

Chester White Fall Sows.

W. W. Vaughn, proprietor of Wildwood Farm, Marion, Iowa, is one of the old Chester White breeders of Iowa. This herd has been producing the good ones for a third of a century. At the present time they will sell a few extra good typy fall sows and an excellent bunch of spring boars. Some of the spring boars are not related to the fall sows. This would be a good opportunity for someone to start a herd of Chester Whites.

Stream and Wilson's Stallions.

Those of our readers who are going to be on the market for imported Percheron and Belgian stallions and mares will be interested in the 100 head that Wilson and Stream, Creston, Iowa, are now offering for sale. They have a high-class lot of home-bred stallions and mares, also they are making some sensational prices on these. They will have a new importation of Percheron and Belgian stallions and mares about September 1st, and they will be glad to have readers of this paper call and see them. Write them at once about their horses and kindly mention this paper.

Sefrit's Poland Chinas.

On October 28th, Geo. W. Sefrit, Lucas, Iowa, will make his annual sale of forty head of boars and ten head of sows and he will have a splendid offering to show the boys. These will be sired by Longfellow Jr., the boar he was offered $1,000 for; Big Bone Again, a son of old Big Bone; Smooth Wonder 3d, a son of Smooth Wonder 2d. He will also have others by such well-known sires as Miller's Choice, Columbus, Colossus, Big Orange, Long King's Superior and Big Orphan 2d. He expects to put up one of the great offerings of the year. Keep his sale in mind and if you are going to want a good boar it will be an excellent place to buy one.

Poland China Herd Boars.

C. F. Adams, Owasa, Iowa, offers for sale Grand Chief, a herd boar that weighs 750 pounds and is the sire of some of the best pigs on Mr. Adams' farm. This boar is a sure breeder and the first check for $100 buys him. Mr. Adams would consider trading Grand Chief for some good sows or gilts. He also offers for sale a fall yearling boar bred by Peter Mouw and sired by Big Jumbo. In his advertisement on page 30 he is also offering a fine lot of spring pigs that are well worth the price asked for them. In fact, they will be worth several times as much in a few months. Write Mr. Adams your wants, kindly mentioning The Homestead.

Hollingshead's Poland Chinas.

We desire to call Homestead readers attention to the Poland China sale of R. C. Hollingshead, Russell, Iowa, (the sale will be held at Chariton, Iowa,) on November 11th. Mr. Hollingshead secured the great herd of Joe Goltry when the latter was elected county clerk last fall, and he is going right on with the business. They will all take off their hats to his offering when they see it sale time. He has not been making much noise, but he has been growing hogs and we want to say to you that he will have one of the greatest bunches of boars and sows that will be sold this fall. This is no idle talk either. He will sell thirteen head of splendid fall boars and twenty-two fall sows in this sale, together with thirteen head of spring boars and nobody will show you a better bunch this

fall. We will have more to say about his offering later in the season.

Cedar Lawn Farm at Auction.

On Wednesday, September 10th, Geo. W. Sefrit, Lucas, Iowa, will sell at public auction his well-known Cedar Lawn Farm, and it is one of the good stock farms in the state. There are 280 acres in all, farm fully improved, twelve-room house, extra good cattle barns, hog houses, silo and ample pasture. The farm is tiled, splendid water system, orchards, fruit and nicely located in the richest corn and blue-grass section of Iowa. Complete description will be furnished to Homestead readers provided they mention this paper when writing Mr. Sefrit.

Vaughn Offers Short-horn Heifers.

W. W. Vaughn, proprietor of Wildwood Farm, Marion, Iowa, can supply good two-year-old Short-horn heifers safe in calf to Scotch bulls, a few cows with calves at foot and some yearling heifers. This herd is one of the very oldest and most reliable to be found in the state of Iowa. The announcement that some good females will be sold from this herd should elicit interest from anyone in the market for some good females. They also offer six good young bulls from ten to fifteen months of age. Our readers will find Mr. Vaughn a straightforward, honest man with whom to do business, and buyers will receive excellent values. See page 29.

Wiebe's Scotch Collies.

G. A. Wiebe, Beatrice, Neb., one of the best known Collie breeders of Nebraska is offering just now a big lot of extra choice stuff of either sex. These dogs are all sired by one of the best working dogs within the state. He was easily trained and at eight months was one of the best performing dogs anywhere. He could be sent long distances, obeyed all signals and in fact was considered a marvel of intelligence. He is still in the Wiebe kennels and it would take a long price to purchase him. We believe that readers of this paper would do well to order one of these puppies and we also wish to emphasize the fact that it is worth money to buy a young dog from such a remarkable sire. Kindly mention this paper and write Mr. Wiebe at once.

Col. W. F. Stratton, Auctioneer.

Col. W. F. Stratton, Nevada, Iowa, is an auctioneer with twenty-four years' experience. He has officiated as auctioneer at pure-bred live stock sales in several states and has a wide acquaintance among breeders of pure-bred live stock. Col. Stratton has a practical knowledge of Short-horn cattle and Duroc Jersey hogs for the reason that he has been breeding them for a number of years and is familiar with pedigrees and individuality. He is an energetic worker and always makes every possible effort to get the full value of an offering. He was connected with some of the very best sales held in the state last year and Col. Stratton considers himself in position to get as much money for the seller of pure-bred live stock as any man in the business. His twenty-four years' experience enables him to know when to sell an animal and when he has the value. He would be pleased to correspond with anybody contemplating the holding of a sale of pure-bred live stock, a real estate sale, or a farm sale. When writing him kindly mention The Homestead. See page 28.

Kiser Bros., Short-horn Breeders.

Kiser Bros., Oregon, Wis., are among the best known and longest established breeders of Short-horns in the state. Their father established the herd in 1870, forty-three years ago and they have never bred anything but pure-bred Short-horns since then. In their herd of nearly seventy-five head is Bates and Cruickshank blood, but with an eye always to the milking qualities of the animals they have developed a type of beef animals with very satisfactory milking ability. Records of forty to above fifty pounds daily have been quite common. Their dealings with breeders, which cover the United States and Canada, have been very satisfactory. They have sold bulls to a father, his brother and son for twenty years, to another man sixteen years and the latter man never visited the herd until 1912, having bought by mail or by proxy. They sold a dozen bulls in one neighborhood by mail, and all buyers were highly satisfied. They have shown at a great many state fairs and have taken grand sweepstakes many times. The herd is headed by Oakland Lad, who was sired by Royal George. Kindly mention The Homestead when writing for information.

Trumans' August Importation.

John G. Truman, Bushnell, Ill., writes: "A cablegram received from London stated that our Horace W. Truman sailed from Tilbury docks on the steamship Minnewaska on Saturday, August 9th, with our sixth 1913 importation consisting of the very best Shire, Percheron, Belgian and Suffolk stallions and Shire and Percheron mares possible to procure in Europe. Time and money have not been spared in getting together this very select shipment which is due to arrive at Bushnell on the 22d inst. The Shires include some of the noted winners at the summer's shows and among the Percherons is Karlin, considered by a great majority of American importers who saw him in France the greatest horse of the breed imported this season. Also the first-prize two-year-old filly in a class of eighty-five at the Mamers Show this year. The Suffolks are two and three years old and each one a Royal prize winner. This shipment will increase our stud here to considerably over 100 head of imported horses and I believe the best lot ever stabled on the Pioneer Stud Farm. We are making very attractive prices in order to take care of our regular September importation. We shall be pleased to hear from any of our readers who are interested in high-class draft horses, to whom we shall be pleased to mail our thirty-fifth annual catalog."

The Little Giant Portable Elevator.

The illustration in the advertisement on page 15 shows how corn may be cribbed without scooping and with an insignificant amount of labor on the part of the farmer. The horse does it all, does it quickly and effectively. The Little Giant is worth investigation because it eliminates a lot of hard work and saves another lot of time. A free book that contains much good reading throughout and tells all about the elevator may be obtained by filling out the coupon in the advertisement and forwarding it to Portable Elevator Co., 155 McClun St., Bloomington, Ill.

Interstate Live Stock Show.

The Interstate Live Stock Show which takes place at Sioux City, Iowa, the week beginning September 13th, has grown into a character which puts it in the state fair and exposition class. The live stock department in particular has grown each year steadily so that it now includes the biggest and best herds of cattle, horses, sheep and hogs. Other lines are equally as strong. Exhibitors are advised that new stock barns and a show pavilion have been provided for their accommodation. The secretary informs us that live stock entries will close September 1st. The usual entertainments of various sorts and extraordinary speed events will be provided. For premium lists or other information address Joe Morton, secretary, Sioux City, Iowa.

Camp Hydraulic Grain Dump.

The Camp hydraulic grain dump will be on exhibition at all the leading state fairs and farmers who realize the need of doing their work economically, quickly and with the very smallest amount of help will find it profitable to investigate the merits of this dump. The illustration in the advertisement to be found on pages 16 and 17, shows how it operates and how it looks when folded up ready for the road. The ease with which it can be moved from one place to another is a great argument in its behalf. Its general operation may be learned from those in charge at the various fairs. It is for sale in Iowa by Ketchum & Gaston Co., Marshalltown, Iowa. Further information with reference to cost or other facts may be learned by addressing Camp Bros. & Co., manufacturers, Dept. 105, Washington, Ill.

Poland China Fall Boars.

If you want a well-bred Poland China fall boar read the advertisement of J. H. Healy, Manilla, Iowa, on page 30 of the issue of August 14th. He offers twelve fall boars for sale, sired by his splendid herd boar, Lingford's Choice, the second-prize boar at the Nebraska State Fair and one of the best boars in western Iowa. Six of these are out of a sow called Edna and she was the dam of the six top gilts in his last winter's sale. The dam of these is a daughter of Young Look and she is one of the best sows he ever owned. Two other good ones are out of a sow called Lengthy and she is a daughter of old Mogul's Hadley. We have seen these boars and can recommend them to Homestead readers. He has forty choice spring boars that he is pricing at from $25 to $50. Write Mr. Healy about these at once or go and see them. You will buy one of these boars if you get your eye on them. When corresponding with him kindly mention The Homestead.

Barr's Chester White Herd.

A representative of this paper last week called on W. T. Barr, Ames, Iowa, whose herd of Chester White hogs has assumed the prominence of one of the leading ones of the state. Mr. Barr has an excellent crop of spring pigs, mostly of March and April farrow. A large proportion of them are by Highland Chief, a hog of most excellent proportions, smoothness, form, bone and uniform individual character. He is a son of Anderson's Chief Select and carries merits that would certainly attract attention were he fitted to appear in a state fair show ring. He has also proven a breeder of unusual prepotency, his pigs showing the same uniformity of breeding character that he himself possesses. There are also pigs in the herd by B. & P.'s Pathfinder, Chickasaw Choice and Fancy Boy. The dams are largely of Chickasaw Choice breeding, carrying the same strains of blood as did the sale consignment which made such a remarkable record at Barr & Rae's sale early this spring. Later in the eseason additional facts with reference to these hogs will be presented in our columns.

Menaugh Bros. Durocs and Polled Durhams.

Menaugh Bros., Gardner, Ill., are very enthusiastic advocates of pure-bred live stock on the farm. These young men are making a success in the breeding of pure-bred Duroc Jersey hogs and polled Durham cattle. They have a fine lot of spring pigs and some good fall boars that they are offering for sale. The fall boars are sired by Model Boy, a son of Model Top and O. & I., a son of W. F.'s Col. The spring pigs are sired by Superior Jr., a son of the prize-winning Superba and out of a Defender sow. A few are sired by Good Enough Yet by Good Enough Again. They have an excellent herd of brood sows sired by Defender O. & I., Jack's Friend, Col. B., The Professor, B. & C.'s Col. and Model King. The line of breeding that these gentlemen have in their Duroc Jerseys is as good as any and the prices asked for their stock are reasonable considering the quality. They have about fifty head of high-class Polled Durham cattle and offer for a sale a few young bulls and some extra fine, smooth heifers, a number of which are of the very best Scotch breeding. They will be pleased to correspond with any of our readers interested. See page 27 and write them mentioning The Homestead.

Big Orange and Colossus Boars.

On page 27 L. R. McClarnon, Braddyville, Iowa, is offering some splendid Poland China fall boars for sale sired by the 1,000-pound boar, Big Orange and Colossus, and these are good enough to head any of our best herds. Two of these sired by Big Orange are out of dams by Colossus and one is out of a daughter of old A Wonder. Two of the Colossus boars are out of a Giantess dam. Possibly the best of the Big Orange boars is out of Colossal Girl and this boar is an outstanding good one. Any of our best breeders could use this boar at the head of their herd and they would all know he is a good one. He is a September 3d farrow, is a hog of splendid size and ample bone and will be in the 1,000-pound class when matured. He is strictly right for some breeder who wants a right good herd boar to head his herd. Some of the other boars he is offering are almost as good as this fellow. He also has thirty spring boars for sale sired by Big Orange and Colossua. Write him at once and get his prices on these boars. Kindly mention this paper when corresponding with Mr. McClarnon.

Snethen's Durocs.

J. S. Snethen's, Davis City, Iowa, a breeder of Duroc hogs who has been breeding for several years from strains that have proven their value in making the breed better has this year a superior lot of spring pigs that have for sires Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st, three boars that sire pigs with quality, exceptional color and that grow out big and smooth. These pigs are out of as well-bred sows as are found and all have proven good producers of large litters. An especially good litter by Crimson Wonder 31st and out of a daughter of Belle's Choice Goods will furnish boar material that breeders desiring something good should go and see. Mr. Snethen has used boars that were strongly bred along Crimson Wonder lines and this type prevails throughout his herd. He has selected from the crop of seventy-five spring pigs twenty boars that he offers the trade. They are tops, have been well grown and are the kind that will please those looking for something good. Note page 27 of this issue for Mr. Snethen's advertisement and if you want good Duroc boars go and see these.

C. S. Bratt's Hampshire Swine and Rambouillet Sheep.

At the Nebraska State Fair which will be held the first week in September, C. S. Bratt, Arapahoe, Neb., will exhibit a number of Rambouillet sheep and a choice lot of Hampshire swine. In these classes of live stock, as well as in Shetland ponies and Short-horn cattle, Mr. Bratt has choice herds. Few, if any, better flocks of Rambouillet sheep are in the country today than those owned by Mr. Br tt. His herd has been a persistent winner at the Nebraska State Fair and those that have purchased from this flock have done well. The Hampshires are also a well-marked lot of excellent blood lines. They are one of the good herds of a great hog-producing state, and readers of this paper that are in the market for anything in the lines mentioned will do well to see the exhibits that will be made by Mr. Bratt. The writer does not know just the numbers of his pens, but a little inquiry will easily locate this exhibit. Kindly make a note of the name, and be sure that you visit his herd, and tell him that you saw his advertisement in this paper. See page 29.

Theobold's Durocs.

J. C. Theobold, Ohiowa, Neb., started a herd of pure-bred Durocs three or four years ago, and he made a good start. He secured some of the very best stuff that was for sale, topping two or three of the best Iowa sales and getting in each instance noted breeding stock. Sows purchased at that time made good, and with the produce of these noted sows and from famous boars, a herd has been built that is second to none in the country in point of pedigree and for individual merit they are first class. One of the most noted daughters of Ohio Chief, Ohio Belle by name, was purchased from the Allen herd and she was mated at the time with Crimson Wonder Again. From this sow Mr. Theobold has raised his herd boar, Ohio Belle's Crimson, and also a fine lot of sow stuff and a number of boars have gone out to head good herds that were her produce. Ohio Lady, also a daughter of Ohio Chief, was purchased in Iowa and she was bred to King Col. This sow has left a fine lot of stuff on the farm and is still doing business as is Ohio Belle. In the Putman sale a couple of years ago he bought a Valley Chief sow bred to Col. Chief. This sow raised Valley Chief Col., a boar now in use in the Theobold herd and one of the extra good breeders within the state. Gold Dust Chief by Ohio Chief, is also in service in the herd having been purchased in the Steinbach dispersion and there is little question but that he is the best Ohio Chief boar in the country today. He is really one of the very best ever sired by the old boar, and while not having been given the publicity that he deserved in the Steinbach herd, nevertheless he is well liked by all the leading Duroc men of the West. A junior yearling sow will probably be shown at the fair this season from this herd and had she been properly fitted would certainly have got well up to the top. She will hardly make it in the flesh she is in, but she is surely a very fine sow. She lacks nothing that makes the first-prize winner except flesh. Mr. Theobold will offer spring boars, also one fall boar and a yearling at private treaty. Nothing better bred, and a number of mighty good things are here. Write Mr. Theobold at once and mention The Homestead.

J. A. Schaldecker's Poland Chinas.

The writer recently called on J. A. Schaldecker, Grafton, Neb., and we wish to report that this herd is still on the map, although the owner was pretty badly discouraged a few weeks ago. The best crop of pigs ever farrowed on the farm were farrowed this spring and the hopes of the owner were pretty strong, as he had been very successful for the past several years, but later disease commenced to take its toll and Mr. Schaldecker, despaired, saving any of them. However, with vaccinating he has managed to save about half the crop of spring stuff and nearly all of the breeding stock. Twenty-five fine fall gilts were disposed of and they were the stuff that was being grown for the next February sale. No sale will be held this season, but some good boars that have passed the serum treatment and that are generally regarded as immune will be offered at private treaty. These hogs have been treated with the simultaneous treatment. Lower prices than formerly will move this stock, as Mr. Schaldecker has not enough to make a sale. Mention The Homestead and write for the prices on a King Mastodon Jr., B.'s Great Hadley or a Big Sensation pig.

Hechtner's Galloways at the Fairs.

Don't fail to see the great Galloway herd of C. S. Hechtner, Chariton, Iowa, at the fairs this fall. He begins with the Iowa State Fair and then makes the rounds of all the leading state fairs and then winds up at the International. He has a great string of cattle with him again this year and if you are interested in Galloways you will want to see his great herd. He has a number of splendid bulls for sale among which is a first-prize two year old at the Royal. Six of the bulls he is offering are imported and while many of these were never shown they are nevertheless good enough to go out and win. He recently sold a splendid bull named Kingsley to D. M. Croft & Sons, Bluff City, Kan., and he was a bull of wonderful scale and smoothness. The splendid show bull, Cornharow, which was first prize in a class of sixty-one in the Castle Douglas bull show, was sold to Robert Brown and Secretary Martin took another excellent bull in Fleur de Lis. He is a three year old and is smooth and of a perfect Galloway type. Together with his imported home-bred bulls he has about twenty-two of these that he will sell. See Mr. Hechtner at the fairs or write him at his home address and kindly mention this paper.

The Sale of Imported Herefords.

The fifty head of imported Herefords that are to be sold at the farm of George Leigh, Aurora, Ill., Friday, August 29th, should be an attraction sufficient to draw breeders and admirers of the white faces from all sections of the country. The buying public is particularly fortunate that two such veteran Hereford men as Mr. Leigh and Mr. George are behind this lot of cattle, as it means that the buyer will have the very best animals presented to his notice that experience and ample capital could procure. Mr. Leigh has imported far more Hereford cattle than any other man in the United States, and is possessed of years of rip experience as a breeder, importer and expert judge, while Mr. George, who for many years has been connected with large enterprises in the live stock world, and who is a former president of the American Hereford Breeders' Association, has been an active breeder of Hereford cattle for many years. When they instructed Secretary Britten, of the English society, to select for them fifty head of Herefords it was with the idea of securing one of the best lots that had ever been brought to this country, and that they succeeded in this respect will be admitted by all ho have seen the cattle. Not only that, but the breeding all the way through the entire offering is of the best. These cattle and their ancestors were bred by such men as Tudge, Price, Powe II, Edwards, Roberts, Hill, Farr and others whose names are identified with all that is best in Hereford history. In some respects this is a very remarkable offering, especially as regards the bulls. In Farmer, the two-year-old show bull, Messrs. Leigh and George have one of the greatest propositions and prospects that the breed has ever produced. He was a reserve champion in England, and the expert judges who have inspected him since his arrival in this country are firm in their belief that he stands in a class by himself. He is deep bodied and massive, standing on the best of short legs, has a wonderful top, handsome head, smooth shoulder, great spring of rib and should give a great account of himself both as a sire and in the show ring. One of the best of the yearling bulls is Mansel Boy, calved in March, 1912, a short-legged thick fellow, with good head and horn. There are a lot of other good yearling bulls in this offering, the kind that have scale, smoothness and substance, the sort that are carrying the necessary bone and size to give a satisfactory cross. The cows are all young, and the majority of them have lusty calves at foot. Messrs. Leigh and George are certainly giving the public far more than an even divide in this matter. It was not at first their intention to sell these cattle. Rather, they imported them intending to place them in their respective herds, but so many people asked them to put prices upon different animals that they finally decided to place the entire offering in the sale ring, enterprise which should certainly be appreciated. The cattle need no indorsement at our hands. They will speak for themselves on sale day. They are right in every way, and they are being sold by two gentlemen who

50 Imported Herefords at Public Sale

FRIDAY, AUGUST 29

Mansell Boy, one of the great young bulls in the sale.

AT THE GEORGE LEIGH FARM **Aurora, Ill.**

The Tops of England's Greatest Herds

are cataloged for the sale, the first of its kind in over a decade. The Hereford breeders cannot afford to miss this opportunity to secure fresh blood. 50 head are listed, including 16 bulls, among them the English champion, Farmer, a sensational two year old. There are outstanding yearling bulls and bull calves of great promise, while 20 breeding cows, 2 to 5 years old, will be offered, several with calves at foot, and all bred to top bulls in England. Don't overlook the sale, the event of the year in Hereford centers. Write today for the catalog, mentioning The Homestead, to

Cols. Carey M. Jones and Fred Reppert, Auctioneers.

Geo. Leigh or Wm. George, AURORA, ILLINOIS

can be depended upon to give everybody thoroughly satisfactory treatment. If you have not already secured a copy of the catalog for this notable sale write for one at once to either George Leigh or Wm. George, Aurora, Ill., mentioning The Homestead. See advertisement on this page.

Crabtree's Polands.

H. Crabtree, Baxter, Iowa, is offering for sale a fine lot of spring pigs as well as a few fall yearling sows, some of which are bred and some open. The spring pigs are sired by Quality King, a grandson of Long King and out of Wonder Girl 3d by Jumbo, and O. K. Price, a son of Chief Price Again and out of Priceless Gem by Big Price. The yearling sows are sired by Long Chief by Long Dude and out of a sow by Chief Knight. Some of the spring pigs offered are out of Big Maria, a daughter of Cottage Lad. Big Maria is one of the best breeding sows in the herd and always produces an extra good litter. She is sired by Tecumseh Longfellow. Surprise Choice by Surprise Tecumseh, Daisy 2d by Long Chief and daughters of Mastodon Leader and Cottage Lad make up the herd of brood sows. Mr. Crabtree has lots of range for his hogs, with plenty of good water and shade. In regard to the yearling sows and spring gilts Mr. Crabtree would be pleased to sell them in bunches of five or six to some breeder who would sell them in a bred sow sale. The spring pigs have deep bodies, good length, heavy bone and excellent heads. Mr. Crabtree's pigs are in just nice growing condition and will give satisfactory results. See page 30 and write him for prices, mentioning The Homestead.

Thos. F. Miller's Poland Chinas.

With this issue of The Homestead, Thos. F. Miller, York, Neb., owner of the Cedarbank herd of Poland Chinas, starts an advertisement in which he offers at private treaty the entire spring crop of Poland China boars. Mr. Miller is one of the best breeders and general stockman within the state, and saved the past spring about 125 pigs. The very tops of them are now for sale. It is worth money to a new herd to own a boar from the Cedarbank herd, as the reputation of the herd has been built up by many years of patient effort and a display of the very soundest judgment. Sires of note have contributed liberally to the upbuilding of the herd and many of the breed's best sows have been and some of them are now on the farm. The herd boars and the sires of these spring boars are a son of Long Chief 2d and out of a daughter of Big Bone, a son of Big Price and a son of Black Big Bone, out of a daughter of Big Jumbo, and one of the very best producing sows of the entire Mouw herd. This latter boar is one of the best boars that the writer has seen from the Mouw herd, and all Poland China men are well aware that Peter Mouw has sent out a lot of the good ones. Daughters of Long King Big Bone, Long Chief, Big Price and a few other noted boars are in this herd and are the dams of the young boars now for sale. Readers of The Homestead searching for the real big ones, and of popular blood lines will do well to consult Mr. Miller before making purchases. Kindly mention The Homestead when you write.

Wm. McCurdy's Poland Chinas.

An enterprising stockman and a splendid farmer is Wm. McCurdy, Tobias, Neb. The herd of Poland Chinas that he has bred are certainly of the good sort and of very popular blood lines. A number of the foundation sows were purchased of Thos. F. Walker & Son, and were sired by that peerless breeder, Exception. Without question Exception was one of the very best boars ever used in the middle West. He sired a number of good boars and a big lot of good sows. No doubt there would have been dozens of his boars in use in good herds where there was one used had breeders realized the value of this boar before he died. He bred the greatest amount of quality, combined with size and good heavy bone and good feet of most any boar that we ever knew. He sired Blue Valley Exception, a boar used by Higgins & Son, De Witt, Neb., and this boar was afterward purchased by John Blain to use in his herd and was then considered by Mr. Blain to be the best breeding boar in the country. Mr. McCurdy still has a few of these Exception right. A young boar, a son of Blue Valley, is also in use and another young sows, and they are sure breeding boar in use is sired by a son of Columbus and out of one of the great producing sows of the Baird herd. A good lot of spring boars are now for sale and will be offered well worth the money. No sale will be made this season and everything will be offered private. Bargains are being offered right now, and to hesitate is to lose something. Mention The Homestead when writing.

De Kalb's Hampshires.

We present on page 24 this week illustrations of the H. D. De Kalb, Hampshire farm at Dekalb, Ia., regarded as one of the greatest Hampshire breeding establishments in this country. In the thickly wooded hills and dales on the De Kalb farm will be found over 300 head of registered Hampshire hogs, among which are some of the best that have ever been bred. At the head of the herd stands that noted breeding boar, Major, who has sired so many of the sensational ones that have come from this herd. He is assisted by the great young boar, King 15th, (the central figure in the picture) who is regarded as one of the most promising young boars in this country. He is a son of old Major and his dam is the great brood sow, Jennie Aylor, who has been one of the most noted brood sows of the breed. The De Kalb herd is one of the most noted in the West, and it remained for an offering from this herd at Council Bluffs, Iowa, last winter to break all records, both for the highest priced sow and for the highest average ever made of this breed. He will make another sale at Council Bluffs, on November 4th, when he will sell some of the best boars that have ever been offered at public auction, and he will also include some of his best brood sows. See illustration on page 24.

Trumans' Horses at Iowa State Fair.

Forty head of imported Shire and Percheron stallions and mares will be exhibited at the 1913 Iowa State Fair by Trumans' Pioneer Stud Farm, Bushnell, Ill. It seems hardly necessary to say anything commendatory of this veteran importing and breeding establishment, the men behind it or the class of horses they handle. For over a third of a century no institution has done more to place the draft horse industry upon a high plane than have the Messrs. Truman. While they have done so much for the draft horse business as a wohle, their main effort has been in the interest of the sturdy English Shire, and the present high place occupied by that popular breed of drafters is due more to the work of the Trumans than to all other influences combined. True, this could not have been done had not the Shire combined all the necessary qualifications for a perfect draft animal, but the work of the Pioneer Stud Farm is bringing to America only the class of horses that gave a satisfactory account of themselves under the most severe conditions was the prime factor that placed the Shire in the front rank of draft horses. J. H. Truman, the founder of the Pioneer Stud Farm, and the father of the American members of the firm, resides in England, and to his unerring judgment as a buyer is due a great measure of the success that the firm has achieved. Only the good kind can command any attention from Mr. Truman, and no price is too long to pay for any animal that suits him. As a consequence the very best that the studs of England can produce are at the first call of this grand old veteran, who has been a stalwart fighter for better live stock and live stock conditions all his life. The Pioneer Stud Farm will be better equipped than ever this year to care for the wants of discriminating buyers, because they have secured one of the very best lots of horses that money and experience could find on the other side of the water, not only in Shires, but in Percherons as well, and at the Iowa State Fair this year, the same as for many years past, the Truman horses will be in the front rank, where their quality and worth justly place them. The name Truman stands for all that is best in draft horses as well as for the highest type of honorable dealing in the business world. The gentlemen of the Pioneer Stud Farm invite all readers of The Homestead to inspect their offering at Des Moines this year.

TOO LATE TO CLASSIFY.

FOUR HIGH-CLASS Poland China Fall Boars

I AM offering four splendid fall boars for sale, sired by the 1,000 lb. boar, **Big Orange,** and **Colossus.** Two of these are out of Colossus and A Wonder dams and two are out of a Giantess dam. Also thirty spring boars by Big Orange and Colossus. Write me for prices and mention Iowa Homestead. Address
L. R. M'CLARNON - - - - - - **BRADDYVILLE, IOWA**

Russell Buys King Pontiac Asian.

To one who has ever visited there the name Idle Hour Place, at once suggests a magnificent herd of exceptionally choice Holstein-Friesian cattle and the proprietor, T. H. Russell, Geneva, Ohio, has been untiring in his efforts to secure a herd which should not only be pleasing to the eye from a standpoint of individuality, but one that should prove profitable in everyday performance from the standpoint of a practical dairyman. No doubt the realization of the sometimes sad truth that a good sire is the making of a herd and that a poor one will ruin it has had much to do with the selection of the herd at Idle Hour Place and one fact that has always characterized the herd is the high quality of the sires that have been kept at its head. It is not the purpose to here discuss Pontiac Hengerveld Parthenea, De Kol Hengerveld Burke and others of its sires whose work is Holstein legion and whose names are indelibly stamped in the roster of the world's greatest dairy sires. Rather, it is the intention to set forth in a brief way a few of the good qualities of the latest acquisition at Idle Hour Place, viz., King Pontiac Asian. Regarding the individuality of his bull, the fact that he was selected by Mr. Russell is a sufficient guarantee of superiority and it would be hard, indeed, to fault the breeding for it would seem no combination could be obtained upon which might be depended better results. The dam, Pontiac Asia, produced in a week 26.18 pounds of butter with an average of 83 pounds of milk per day, making in 30 days 105.8 pounds of butter from 2,259.9 pounds of milk. Eight months after freshening she produced more than does the ordinary cow at freshening as she made for a week over 46 pounds of milk per day and continued well in official work having to her credit 742.06 pounds from 17,963.6 pounds of milk in 336 days. Pontiac Asia was by Hengerveld De Kol from Pontiac Lachesis, a good A. R. O. daughter of Sir Inka Artis Mechthilde and Terra, both of whom have demonstrated a rare ability to transmit great producing qualities for several generations. It was one of the daughters of Sir Inka Artis Mechthilde that is dam of Pontiac Artis (31.71 pounds) and Pontiac Jewel (30.72 pounds) one of the very few pairs of 30-pound full sisters, and Terra will be remembered as the dam of Pontiac Pleione who gave over 90 pounds of milk per day for a month and in 346 days made 925.56 pounds of butter from 24,820.2 pounds of milk. Owing to the fact that Pontiac Pleione freshened at this time it was impossible to continue the semi-official test the full year although in the full year she produced over 26,000 pounds of milk, certainly a wonderful production. Pontiac Lachesis has also been proven a cow of more than ordinary quality in that she has one proven son and three A. R. O. daughters with records of 21 to over 26 pounds each. Thus, it will be seen that Pontiac Asia and several of her three-quarter sisters are classed as some of the best daughters of Hengerveld De Kol. The sire of King Pontiac Asian is King of the Pontiacs, who as a calf was rightly named, being by Pontiac Korndyke from a 28-pounds daughter of Hengerveld De Kol, the two great Pontiac sires and two as great sires as ever lived and as a sire King of the Pontiacs has far surpassed the great things that were expected of him. His daughters in semi-official test greatly exceed the work of the daughters of any other sire. His daughters that have made records greater than 26 pounds of butter in a week as two year olds out number those of any other bull. Four of his daughters have made records greater than 30 pounds of butter in a week including the former world's champion senior and junior three year olds, also the famous K. P. Pontiac Lass, who astonished the world with the marvelous production of 44.18 pounds of butter in a week, 171,5 pounds in 30 days, productions that have hitherto seemed but idle dreams. King Pontiac Asian is a three-fourths brother to K. P. Metis whose records as a junior three year old of 31.74 pounds of butter in a week and 130.59 pounds in 30 days were world's records at the time, and, as will be seen, his ancestors, sisters, aunts, cousins, all, include the greatest animals yet known to the dairy world. It is little wonder then that he was selected at a long price to go to the Idle Hour Place herd and even the most pessimistic can hardly fail to predict a most excellent future for this royally bred sire.

IMPORTED AND HOME-BRED Percheron, Belgian and Shire Stallions and Mares

ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from.
Frank L. Stream - Creston, Iowa

MENAUGH BROS. Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right,
J. S. SNETHEN - DAVIS CITY, IOWA.

SHORT-HORN CATALOGS

COMPILED and printed. Thirty-five years' experience with pedigrees enables me to do good work. Write for samples and prices. Some pure Scotch heifers for sale.
FRANK P. HEALY - BEDFORD, IOWA

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augsburger, Pulaski, Iowa.

BIG Poland Chinas 100 boars and gilts of fall, Jan. up to April farrow. Sires: Big Hadley, Big Bug, Winn All. Size and quality. H. Lenz, Lansing, Ia.

16 Hampshire Boars One yearling. Good bellied, heavy boned. $12.00 to $20.00 each. Address Edw. Dooley, Selma, Iowa.

St. Bernard Dogs FOR SALE. Prices reasonable. Howard S. Cooper, R. 4, Wellman, Iowa

LIVE STOCK AUCTIONEERS.

I KNOW THE DUROC.
I KNOW THE BREEDERS.
I KNOW THE BUSINESS.

COL. W. M. PUTMAN

TECUMSEH, NEBRASKA

I am in a position to make you money. Am now booking sales for fall and winter.

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PROPRIETOR Elmwood Pony Farm. Shetland ponies for sale. Write for dates and information.

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153 SALES LAST SEASON
985 11th ST., MARION, IOWA

E. Z. Russell, Lincoln, Neb.
LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

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Auctioneer

Pedigreed live stock a specialty. Write for dates.

Cope's Poland China Herd.

A representative of this paper last week visited the farm of J. H. Cope, Carlisle, Iowa, who has a most excellent herd of Poland China hogs, and announces a public sale to take place at the Iowa State Fair grounds, September 26th. Mr. Cope has built up an unusually good herd of hogs and has done so without blowing his own horn. As a result he has a herd which is well worthy of a good deal more attention than it receives. The mature brood sows in his herd are great big animals with good length, strong, well-arched back, well-ribbed out, good feet and legs and generally attractive heads and ears. They are a lot better in these respects than most big-type herds. They carry these high qualities because of the careful attention which has been given to right selection and lines of breeding. At the present time the herd is headed by Long Mastodon, a three-year-old son of King Mastodon that gained so much prestige in the Wheeler herd. His dam was Lady Mastodon 12th, by Surprise Wonder 5th. Long Mastodon is practically a Mouw-bred hog from top to bottom. He is a big fellow, very deep and broad, with a good back and strong bone. He is an unusually good big-type herd boar and one which under the circumstances should go into some good herd. Mr. Cope cannot use him any longer and for that reason will let him go for the first check for $50 that reaches him. The hog is worth double the money. In later issues we will give additional details with reference to the consignment.

Good Duroc Jersey Hogs.

If any of our readers want a good Duroc Jersey boar they should write to or go and see B. W. Hunt, Denison, Iowa, who has forty head of fall and spring boars for sale. He has sons of the great King of Cols., C. H.'s Special, Model Advance, Gold Dust Prince and Grand Chief, and he is pricing these where they will sell. Mr. Hunt says to us that if the boys will only come and see these boars they will not go away without one, as his prices are right. He is pricing the spring boars at $25 if taken soon. When writing Mr. Hunt kindly mention The Homestead. See page 31.

P. W. Weberg, Denison, Iowa, is advertising Duroc Jersey boars sired by Crimson Wonder 3d, C. H.'s Special, Crimson Wonder Again and other noted sires on page 31. He also offers ten head of sows bred to the grand champion boars, Crimson Wonder 3d and C. H.'s Special for fall litters. Get your order to Mr. Weberg for some of these just as soon as you can, as they are not going to last long. Mention The Homestead when writing him.

HORSES.

Good's Horses At Iowa State Fair

I WANT every one to come and see my horses at the Iowa State Fair. I will be there with 20 Imported Belgians and Percherons. A strong line of three-year-old stallions, some younger ones that include colts good enough to go anywhere. Useful mares of breeding age. These horses are not fat, but they are in form to make money for buyers. There are some bargains among them. Come and look them over, even if you don't want to buy.

C. G. GOOD OGDEN, IOWA

LIVE STOCK AUCTIONEERS.

N. G. KRASCHEL
HARLAN, IOWA.
LIVE STOCK AUCTIONEER

I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

Be an Auctioneer

TRAVEL over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the actual practice school which opens October 6, 1913.

MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres.
1400-04 Grand Avenue Kansas City, Missouri

D. H. CUNNINGHAM
LIVE STOCK AUCTIONEER

GRADUATE of Animal Husbandry Dept. at Ames. 8 years' experience and lots of good sales. For terms and dates address

D. H. CUNNINGHAM, WAYNE, NEB.
Care of Citizens National Bank

H. S. ALLEN, RUSSELL, IA.
LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

COL. H. L. IGLEHEART
Elizabethtown, Kentucky
LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

C. O. LOWRY, EDGAR, NEBRASKA
AUCTIONEER

PURE bred stock and farm sales a specialty. Am posted on pedigrees, individuality and values, been a breeder of pure bred stock the past sixteen years. Have held several sales of my own, besides crying sales for other people. Your patronage solicited, and fair and square treatment guaranteed. Write or wire for terms and dates, terms reasonable.

L. A. MATERN, WESLEY, IA.
LIVE STOCK AUCTIONEER

POSTED in all breeds of cattle, horses and hogs. Made sales for most leading breeders in northern Iowa. Also sales farm and real estate auctioneer. Write me for dates.

O. L. MOSSMAN
MASON CITY, IOWA.
LIVE STOCK AND REAL ESTATE AUCTIONEER
Pure-bred sales a specialty Write for dates

GEO. H. BURGE
AUCTIONEER
PEDIGREED LIVE STOCK
MT. VERNON - - - IOWA

E. D. SNELL
AUCTIONEER
CAMBRIDGE - - - NEB.
(If it's results you wish, let's talk it over)

W. F. STRATTON
NEVADA, IOWA

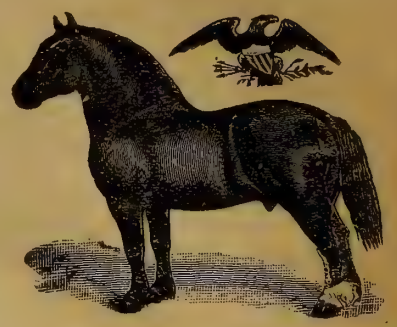
AUCTIONEER of Pure-Bred Stock and Real Estate. No man is better posted on pedigrees and values. I solicit your sales. 24 years' experience.

B. H. Keck, Mt. Pulaski, Ill.
AUCTIONEER

WRITE for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

Z. S. BRANSON AUCTIONEER
PURE-BRED LIVE STOCK
AND REAL ESTATE
Office First National Bank Bldg., Lincoln, Nebraska

Special Sale of Percheron and Belgian Stallions
For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

MAASDAM & WHEELER
FAIRFIELD, IOWA
PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

OAKLAWN STOCK FARM
Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection. If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

GEORGE EGGERT NEWTON, IOWA

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a grand bunch of mares and fillies. Mares are all in foal to imported stallions. I will show at the **Iowa State Fair** and want to meet all interested in good Belgians. See my exhibit. I will be pleased to meet you. Farm one-half mile from town,

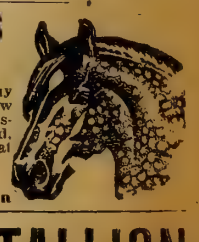
R. F. FRENCH - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

BELGIAN EMPORIUM OF AMERICA.

A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address

HENRY LEFEBURE - FAIRFAX, IOWA.
Eight miles west of Cedar Rapids.

EARLY BUYERS SAVE MONEY



and get the best horses. Buy BIG PERCHERONS now from my big bunch of registered studs 2 and 3 yrs. old, yearlings and suckers, at breeders' prices.

FRED CHANDLER
Chariton, Route 7, Iowa

COACH STALLION

FOR SALE—Dark chestnut, wt. 1400, age 7, sound, sire, imported German coach, Dam, standard bred mare, making him a full blooded cross. He is the best coach horse in this county. Price $500.00.

AMOS HANSON - - COLLINS, IOWA

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Ea. a splendid animal and offered at extremely low prices. Call or write V. W. HARMS, FAIRBURY, ILL.

Purchase Percherons

NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.

BUY THREE IN ONE

See the mares in pasture or infield work.
See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.

CLOSING-OUT SALE—August 20th. Percheron and French Draft horses. Catalogs sent on request after August 1st. W. J. Cunningham, R. F. D. No. 5, box 45, Pittsfield, Illinois.

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300 SHETLAND and Welsh ponies for sale, all ages, including prize-winners. Write us your wants. T. S. Simpson & Sons, Aurora, Ill.

STALLIONS

Home-bred draft stallions $250 to $650. Guarantee to sell you imported stallions for less money than any firm in America. Come to a live stallion market and see all draft breeds. A. LATIMER WILSON, Creston, Iowa.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

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Engraving Dept. Des Moines, Iowa.

HEREFORD CATTLE.

HEREFORD HERD BULL

A few yearling bulls and some choice females for sale. Very best of blood lines and every thing priced well worth the money. Address, mentioning Homestead, **N. D. MYSENBURG, David City, Neb.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, NEWTON, IOWA.

10 HEREFORD HERD HEADER BULLS

AVERAGING 12 months old, weighing from 1,000 to 1,200, in good condition, now offered for sale. Intensely bred Anxiety 4th bulls with good bone, heavy hind quarters and droop horns. By Beau Gondoline, Rex Onward 4th and Bright Lad from Beau Donald 12th and Beau Brighton dams. We also have 50 head of the plainer sort of registered Hereford bulls. **A. SPOONER & SONS, MONDAMIN, IA.**

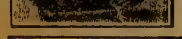
HAMPSHIRE SWINE.

RAMBOUILLET SHEEP and HAMPSHIRE SWINE

From the herds of C. S. Bratt, Arapahoe, Neb., will be on exhibition at the

NEBRASKA STATE FAIR

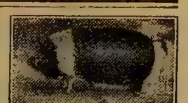
OUR herds and flocks, including the sheep and hogs mentioned, also Shetland Ponies and Short-horn cattle are all of a high order. Visit us at the fair. If writing address
C. S. BRATT - - - - ARAPAHOE, NEB.



PRIZE-WINNING HAMPSHIRE SWINE

I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

MESSENGER'S HAMPSHIRE SWINE



HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Polled heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
H. D. DE KALB, DE KALB, IOWA.

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

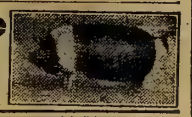
Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win. I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

Sunny Slope Hampshire Swine



200 February and March pigs sired by **Joe 7742** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
J. E. BECKENDORF, WALNUT, IA.

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address
A. L. DIEHL, BENEDICT, YORK CO., NEB.

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

Gausman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.
C. H. GAUSMAN - SEWARD, NEB.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
Billie McFarland - - - Syracuse, Neb.

BIG HAMPSHIRES Extra choice spring boars, also gilts for sale now. Best breeding, moderate prices. C. S. Bratt, Arapahoe, Nebraska.

Hampshires-- Bred sows $35. Spring pigs with pedigrees $12 to $20 per pair. Galloway Farms, Waterloo, Ia

HAMPSHIRE HERD

CONSISTING of 40 head, tried sows, yearlings, spring boars and gilts. Address,
ED SHERMAN - CORTLAND, NEB.

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address
L. F. TETER - SHICKLEY, NEBRASKA

VALLEY VIEW Hampshires, either sex. Satisfied customers. Spring boars ready for service. 1 2-yr-old boar, sale or trade. Fred Wheeler, St. Charles, Ia.

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale. We are pioneer breeders of Nebraska. Write today.
J. W. COX & SON - ARAPAHOE, NEB.

Mule-Foot Hogs

Oldest breeder in the State. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

POLLED DURHAM CATTLE.

D. S. Polled Durhams, reds and roans, both sex. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address
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LIVE STOCK PHOTOGRAPHS

FOR use in sale catalogs, and for other advertising purposes, nothing equals engravings made from actual photographs. We have the most complete photographic equipment, as well as a photographer of superior ability in posing animals. We send him anywhere on request and quote prices as low as is consistent with good work. Let us send him to you before arranging your season's advertising. Address

PIERCE FARM WEEKLIES, DES MOINES, IOWA.

CHESTER WHITE SWINE.

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit. Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 100 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead
THOS. F. KENT R. 2 WALNUT, IOWA.

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hercules and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - ELLSWORTH, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - PRESCOTT, IOWA.

TURNER'S CHESTER WHITES AT NEBRASKA STATE FAIR

THOSE interested in good Chester Whites are invited to visit our pens at the Nebraska State Fair. We will have some good boars with us that are for sale. Our hogs are not highly fitted, and they will make good for you. Come and see us.
AMOS TURNER - - - WILBER, NEB.

WE WILL BE AT THE NEB. STATE FAIR

WITH our herd of Chester Whites. We will have some choice young boars with us that will be for sale, and we want you to make it a point to see them. Inquire for our exhibit. We want to meet you.
VANDERSLICE BROS. - - - - CHENEY, NEB.

C. C. EVANS

LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
W. H. DUNBAR, JEFFERSON, IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

PLAINVIEW CHOICE BOARS

CHESTER White fall and spring boars by the great Plainview Choice. Also some Short-horn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

CHESTER Whites and Shropshire bucks. Boars ready for service, and sows, gilts and spring pigs. Write Bert A. Randell, Mt. Zion, Ia.

CHESTER WHITE SOWS

TEN good fall sows, bred for August farrow, at low prices for quick sale. They trace to Lewis K., Keep On and other sires of show yard note, and are bred to Iowa Pride, a Hoover bred hog. They are right in every way and in perfect health and thrift. Write or come and see them.
G. O. SATRE - - - - JEWELL, IOWA

CHSETER WHITE BOARS

I HAVE a fine lot of March and April boars sired by Joe O. K., Perfection Chief, Chief Combination, Silver Tip and Elmore's Choice that I will sell very reasonable. I guarantee the boars to please you or you can send them back. Mention Homestead.
H. T. D. HENDERSON - KEOTA, IOWA

A FEW choice Chester White boars old enough for service. Eighty-two March and April pigs, best of breeding. Order now and save expense. Harry Hurless, Ogden, Boone Co., Iowa.

FOR SALE—A choice lot of Chester White spring boars sired by Bob and he by Pathfinder. Prices made to sell. A. C. Orme, Nodaway, Iowa.

O.I.C. Spring pigs, either sex. Express prepaid. Address
W. Doolittle, Woodland, Mo.

CHESTER WHITE BOARS FOR SALE

I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

Improved Chester White Gilts. Safe in pig. Ready to ship. Write or come and see. E. J. Trumbauer, St. Charles, Iowa.

SHORT-HORN CATTLE.

SCOTCH-BRED SHORT-HORN HEIFERS

I AM now prepared to offer for sale a limited number of Short-horn heifers of strictly choice lines of Scotch breeding. They are as good cattle as can be found and just the kind for those who want to get started right in the Short-horn business. Come and see them. When writing mention The Homestead.
GEORGE D. HARRAH - - - - NEWTON, IOWA

Choice Short-horn Bulls for Sale

WE are offering some very choice young Scotch and Scotch-topped bulls for sale. Some choice herd headers among the bunch Write or come and see us.
HELD BROS. - - - Mondamin Farm - - - HINTON, IOWA

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

Choice Scotch Bulls

FOR SALE

I AM offering some splendid young Scotch bulls for sale from my famous **Greeley Stock Farm.** Two splendid Gardenias and two Gypsy Maids that are strictly herd bull propositions. Several other choice bulls from $150 up. Write or come and see me at once. Address
C. A. SAUNDERS, - MANILLA, IOWA

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE - MT. VERNON, IOWA.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
J. E. Barr, R. F. D. 4, Davenport, Iowa.

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
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A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.
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SOME excellent bulls of serviceable ages. Pure Scotch, others Scotch topped. Good breeding, best of individuals and at farmers' prices. Address
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1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.
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Bulls and Heifers FOR SALE

WILDWOOD farm offers for sale 6 good bulls 10 to 15 mo. old and several yearling heifers. Also 2 two-year-old heifers bred and 3 cows with calves at foot. We invite your inspection.
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SOME excellent young bulls, sired by the 2,200 lb. Secret Hero, also a pure Scotch tried bull. Prices low for quality offered. We maintain milk records on many of our cows. Mention The Homestead.
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SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

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THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
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COOPER'S BIG-TYPE BOAR PIGS

Will make hogs that will weigh from 700 to 1,000 lbs. They have the blood lines that mean size and outcome to every one of them. We have **75 head of corking boar pigs** that we will record, guarantee safe delivery. They have been immunized. We will sell them at

25 DOLLARS EACH—A price they will bring on the market after you use them

They are sired by our 900-lb. boar, Big Bone 2d, that measures over 11 inch bone, with all the quality of a show type. Others sired by the 800 lb. two year old, Big Expansion; some by Chief Leader, a 600-lb. yearling, Ideal Chief and other noted boars. **The dams are sows of intense big-type breeding, weighing from 500 lb. year olds, up to sows of over 800 lbs. LISTEN.** If you want a boar, of the biggest breeding, one that will make a big hog, one that you will pay from $40 to $75 for this fall and no-better, send us your check, the first letter, tell us the kind you want; we will either send the hog or return your money. **Again, if you like your money better when you get the pig, return him; we will refund your money.** Where will you get a more fair deal? You won't buy such breeding at the price again this year. Buy your boar now and save from $20 to $50 on him.

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"Are Leaders of Their Kind."

150 May and June pigs now ready to ship. The special price of $35 single, either sex; $65 pair, no akin; or $90 trio, no akin, will sell them all in the next thirty days. Start right with the kind of our forefathers. Mail your check with first letter. Everything registered.

HOMER L. FAULKNER - Owner Highview Breeding Farm - JAMESPORT, MO.

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THE home of the noted breeding boar, **Long King's Equal** (weight 965 lbs. in breeding condition, weighed in the presence of forty breeders). Sows bred to him and **A Wonder's Jumbo** for fall litters. **150 Choice Spring Pigs** that I am now offering at private treaty. Will not hold fall sale and will sell these out privately at less than half the money they would bring in a sale. Now is the time to get your bargain while the good ones are here. Write me at once for description and prices and mention Homestead.

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C. F. Adams' Big-Type Poland Chinas

I AM making special prices on spring boars and gilts for the next thirty days. I have a grand lot of them sired by **Mammoth Jumbo** by Big Jumbo, **Maid's Halvor 1st** (the sensational two-year-old son of Big Halvor and Long Maid), **Adams' Big Hal** by Big Halvor and **Long Columbia.** These pigs are out of my

Sensational Herd of Big, Smooth Sows

sired by some of the most noted boars of the breed. The prices I am making on these pigs are about one-third what they will be worth in a year from this time. Write me at once if you want a high-class pig at a bargain. Mention The Homestead when writing me.

C. F. ADAMS - - - - - - - - - - - - - - - **OWASA, IOWA.**

Fred Sexsmith's POLANDS

MEET me at the Iowa State Fair if you are wanting a "rip-nailing" good boar. I have 35 head of the best I have ever raised. Address

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I HAVE a grand lot of March and April boars and gilts sired by **Quality King,** a grandson of Long King and **O. K. Price,** by Chief Again Price, also a few open yearling sows. I breed for size and quality. Herd largely of Mouw, Lawson, Johnson and Wheeler breeding. My prices are low and my hogs will please you. Mention Homestead when writing.

H. CRABTREE, - - - BAXTER, IOWA.

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

Mention The Homestead when writing.

LONG KING'S SUPERIOR

ONE of the very greatest two-year-old boars in Iowa heads my herd. I have a few extra good big sows by P.'s IXL bred to **Long King's Superior** and a few sired by **Long King's Superior,** bred to A Wonder Again due to farrow in August and September that I will sell worth the money. Annual boar sale Oct. 8, 1913. Write me for prices on bred sows, mentioning Homestead.

C. W. PHILLIPS - NEW SHARON, IOWA

Visit Us at the Nebraska State Fair

WE will be at the Nebraska State Fair with our Poland Chinas and will have some stock that we would like you to see. We maintain one of the largest herds in Nebraska, and have choice breeding stock for sale at reasonable prices. Call on us.

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KETCHEM'S BIG POLAND CHINAS

EXTRA choice spring boars by the 1,000 Progressive Monarch, and Mastodon King by King Mastodon Jr. These are the real big ones. Address

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WE will be at the Nebraska State Fair with a good lot of Poland Chinas, as has been our custom for years. If in search of big, heavy boned boars, the kind that have proven that they make good, come and see us. We want to meet you anyway.

W. H. DEIGAN - - - - - - RAYMOND, NEB.

BIG POLANDS, THE JONES KIND

SOME extra choice spring boars, real big ones, sired by Jumbo the Great and other noted sires. They are all out of choice big roomy sows. If looking for real big stuff address mentioning The Homestead

ORVILLE O. JONES - - - - - - YORK, NEBRASKA.

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AN excellent lot of spring boars on hand sired by the great boar, Long Sam by Sampson, and out of the $465.00 sow, Big Standard. Also others by Guy's Price Wonder, and other choice boars. They are out of as big sows as in the West and of the very best breeding. Mention Homestead and address

JOSHUA MORGAN - - - - - HARDY, NEBRASKA.

BIG HERCULES

ONE of the very biggest of all the extra big ones is at the head of our Poland China herd. In our Oct. 23rd sale we will offer a few sows either bred or with breeding privilege to this boar. We have an extra select line of spring boars that we will offer at that time. They are by the great Gold Medal. Let us tell you of these big Polands.

J. T. R. NASH & SON - - - - - MINDEN, NEBRASKA

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. Spring pigs, either sex, now ready to ship. $25.00 to $50.00. Best breeding, highest quality.

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FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

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SIRED by my great herd boar, **Pawnee Price,** one of the greatest boars living. He is a half brother to Big Ben and Big Joe. I have some corking good spring boars by him out of daughter of Big Tom, Big Orange, Pawnee Lad and A Wonder. I also have good boars sired by Big Joe, Mable's Wonder and Mastodan King. Prices $30 to $50. Write or come and see me. Address.

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AM making special prices to move the choice bunch of early spring boars on our farm. They are A great big, smooth fellows, of excellent breeding and will be priced so that you will buy if you really want good ones. Write me today. Address mentioning this paper.

JOHN L. NAIMAN - - - - - ALEXANDRIA, NEB.

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - MINDEN, NEBRASKA.

SCHUG'S BIG-TYPE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them vere or write. Address

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HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

**CARL A. ROSENFELD - - - - - - - - - - - - - - -

DUROC JERSEY SWINE.

COL. SENSATION 98291

THE SENSATIONAL BIG-TYPE DUROC JERSEY BOAR OF THE YEAR

WEIGHED 1,055 LBS. ON JULY 24, 1913

Watch for this great hog at the Iowa State Fair. He now weighs 1,055 lbs., and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best big-type boars you ever saw. Don't fail to see him at the fair this fall. Will be pleased to show him to you if you come to the farm.

J. B. ASHBY - - - - - - - - - - AUDUBON, IOWA

DUROCS

ARE POPULAR

BECAUSE they are the Profit Producers. Start right by buying a few choicely bred gilts. For further information apply to

B. W. LITTLE - JANESVILLE, WIS.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.

JOHN KREBS - RIVERSIDE, IOWA

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.

HUGH M. FICKE, LONG GROVE, IOWA.

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.

C. A. MOULTON, MORRISON, ILLINOIS

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.

E. CRABS - - - - ALEDO, ILLINOIS

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,

P. O. WEBERG - DENISON, IOWA

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale, sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address

A. F. HAGER - - - - - AVOCA, IOWA

Duroc Jersey Fall Boars

I HAVE 14 good fall boars for sale sired by **Golden Gano.** Price $25 to $40. Spring pigs for sale sired by the most noted herd boars living. Address.

Fred Swan - - - Missouri Valley, Iowa

37---DUROC JERSEY BOARS---37

I AM offering seven choice fall boars, thirty good spring boars for sale at prices ranging from $25 to $40. Get your order to me at once and get a good boar at a reasonable price.

HENRY E. WEGTER, SHELDON, IOWA.

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write

WILL THOMPSON, R.F.D.2, JESUP, IOWA

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder and out of choice sows. Also some by the great Wilde's Wonder. Prices to move these hogs early. Write today. Address

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OCTOBER boars by R. J's. Chief, with length, size, quality, good bone, strong arched backs, broad heads and tippy ears.

J. C. PORTER - - - - OGDEN, IOWA

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

KING GANO 13311

Weight 725 lbs. at 17 months

The most sensational yearling of the year and the greatest living son of Col. Gano. Be sure to see him at the Iowa State Fair and buy one of his sons.

O. E. OSBORN - WESTON, IOWA

I AM A CRIMSON WONDER 2d

(Grand Champion Boar at Sioux City)

WE are offering some outstanding spring boars for sale sired by Crimson Wonder 3d and other noted sires and out of the top sows purchased at the leading sales the past few years. Prices $30.00 to $50.00. Write us for description and mention Iowa Homestead. Address

SWAN & ELLIS - - - - - INDIANOLA, IOWA

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address

R. J. HARDING - - - - - - - MACEDONIA, IOWA

WHEN AT THE NEBRASKA STATE FAIR

BE sure and see my exhibit of Duroc Jerseys. Will have a number of excellent herd-heading boars on the ground, and if looking for something of that sort, remember the name and look for me.

H. H. KOENIG - - - - - DEWITT, NEB.

Will be at the Neb. State Fair

WITH my herd of Durocs. Will have some herd-heading boars that I would like for you to see. Do not fail to look for my exhibit. I want to meet you.

F. E. MERRICK - - - - OSCEOLA, NEB

HICKORY CLUSTER DUROC FARM

FOR SALE. A few choice sows bred to **Col. Pilot Wonder** and **Mount's Col.** A few extra nice fall pigs, either sex. **SMITH & RODGERS, Springfield, Ohio.**

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address

B. W. HUNT - - - - - - - - - - DENISON, IOWA

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th bred boar. Order at once, write or come see. Farm adjoins town.

A. T. BOSELY - - - - - FAIRBURY, NEBRASKA

THE REXALL HERD OF DUROCS

WE bred and owned the grand champion, Critic B. We still have his sire, Dusty Critic 2nd and have some choice prospects by him. Cedar Grove Cliff, the first prize boar Kansas State Fair, also in use. He is a son of Lincoln Chief, the first prize boar, Neb. in 1911. We would like to hear from you if in search of some choice breeding stuff, and would like to meet you at the Nebraska State Fair.

DANFORD & DEWHURST - - - - - ORD, VALLEY COUNTY, NEBRASKA

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address

J. A. JACOBSON - - - - - - MARQUETTE, NEBRASKA.

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address

E. L. BUSCH - - - - - - - - SYRACUSE, NEBRASKA

20 HEAD DUROC JERSEY FALL BOARS

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Order at once. Address

GEORGE C. EVERTS - - - - AUDUBON, IOWA.

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address

C. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

MINNESOTA'S MOST NOTED DUROC JERSEY HERD

Owned by W. N. Shanks, Worthington, Minn.

I AM offering a great line of high-class boars for sale, viz: Four by the great boar **Model Chief 2d** and two by that celebrated old champion, **Crimson Wonder Again.** 170 spring pigs, sired by the 1st prize boar **Chief's Model,** and **Model Chief's Last.** These are out of the greatest line of brood sows in the Northwest. Write for prices and description and mention The Homestead.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address

LEWIS KREITZBERG - - - - - GRISWOLD, IOWA.

When Writing to Advertisers Please Mention The Homestead

DUROC JERSEY BOARS

I HAVE a fine lot of fall and spring boars sired by Royal Col. Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.

J. E. SMITH - - - - VICTOR, IOWA

YEARLING DUROC BOARS

I HAVE 2 yearling boars by the International Champion Volunteer, dam Mc's Dream II by Chief's Col. out of the champion sow Mc's Dream; also one yearling by Model Wonder and one by Proud Ohio Chief, dam by B. & C.'s Col. I have 2 good fall boars by Pratt's Leader. All for sale at right prices. R. R. Station, Tripoli.

M. S. PRATT, - FREDERIKA, IOWA

WELL BRED DUROCS

WE have the best lot of boars for sale that we have ever offered. They are sired by Chief Select, Jr., 103747; B. & S. Golden Model, 129083; Model Chief, Jr., 130319 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write us for prices if you want a good boar reasonable. Mention Homestead

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Mason City, Iowa, and Fredericksburg, Iowa.

50 DUROC JERSEY BOARS

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr. Splendid boars at $25 and $30. Order now and get the best.

HEIKO GRUIS - - GEORGE, IOWA

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BRED for August and September farrow to some of the best sires of the breed. 180 spring pigs. Male pigs for sale at reasonable prices. Gilts reserved for winter sale.

F. CHRISTENSEN, FAIRMONT, MINN.

HIGH-CLASS DUROCS

CHOICE spring boars by R. & J.'s Golden Model, also by the champion Critic B. From one of best herds of sows in the state. Farmers' prices. Address

A. J. REGIER, HENDERSON, NEB.

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address

OTTO R. BELLOWS - - FAIRMONT, NEB.

DUROC BOARS

Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

DUROC JERSEY Boars—a yearling by King The Col. and Red Col., a yearling by Whitehall Col. and out of Silkie. S. I. Welch, Cherokee, Iowa.

DUROC JERSEY FALL BOARS

for sale; also trios. reasonable prices.

L. L. DE YOUNG, SHELDON, IOWA.

YORKSHIRE SWINE.

LARGE YORKSHIRES

Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

RED POLLED CATTLE.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.

FRANK J. CLOUSS - BARNUM, IOWA

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

PRIZE-WINNING RED POLLS

SIX HEAD of SHOW BULLS for sale, also some bred heifers. Meet us at the fair.

Geo. Haussler & Sons, Holbrook, Nebraska

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

WANTED

A few registered Red Polled heifers, bred to calve in September or October. Give price and address L. L. Woods, Grinnell, Iowa.

Maple Grove Red Polls

Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R.

JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle—Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

Mention The Homestead when writing.

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Price comes down; value goes up!

Electric head, side and tail lights
Storage battery and Ammeter
35 horsepower motor

114-inch wheelbase
Timken bearings
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f. o. b. Toledo

Brewster green body with a light green striping, nickel and aluminum trimmings
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Stewart speedometer
Electric horn
Flush U doors with disappearing Hinges
Turkish upholstery

With Gray & Davis Electric Starter and Generator—$1075

HERE is the car of the hour!

The 1914 Overland is ready for immediate delivery.

Again we lower the price. Again we increase the value.

This new car is larger, more speedy and powerful, more finely equipped and more elegantly finished, but in spite of this enormous value increase the price has been materially decreased.

The motor has been enlarged to 35 horsepower and will develop 50 miles an hour with ease.

The wheelbase has been lengthened to 114 inches—which is the average wheelbase of $1500 cars.

The 1914 Overland tires are larger; the tonneau is longer and roomier; the equipment is better—including such big and costly additional features as electric lights; the body is handsomer, being finished in beautiful rich dark Brewster green, with heavy nickel and aluminum trimmings.

The 1914 Overland is the most magnificent and graceful popular priced car that has ever been made.

In fact, in every single and individual respect here is a much greater, bigger and better car at a reduced price.

This is only another demonstration of how big production will cut costs. For, instead of building 40,000 cars as in 1913, this year we will build 50,000 cars. This is the world's largest production on this type of car

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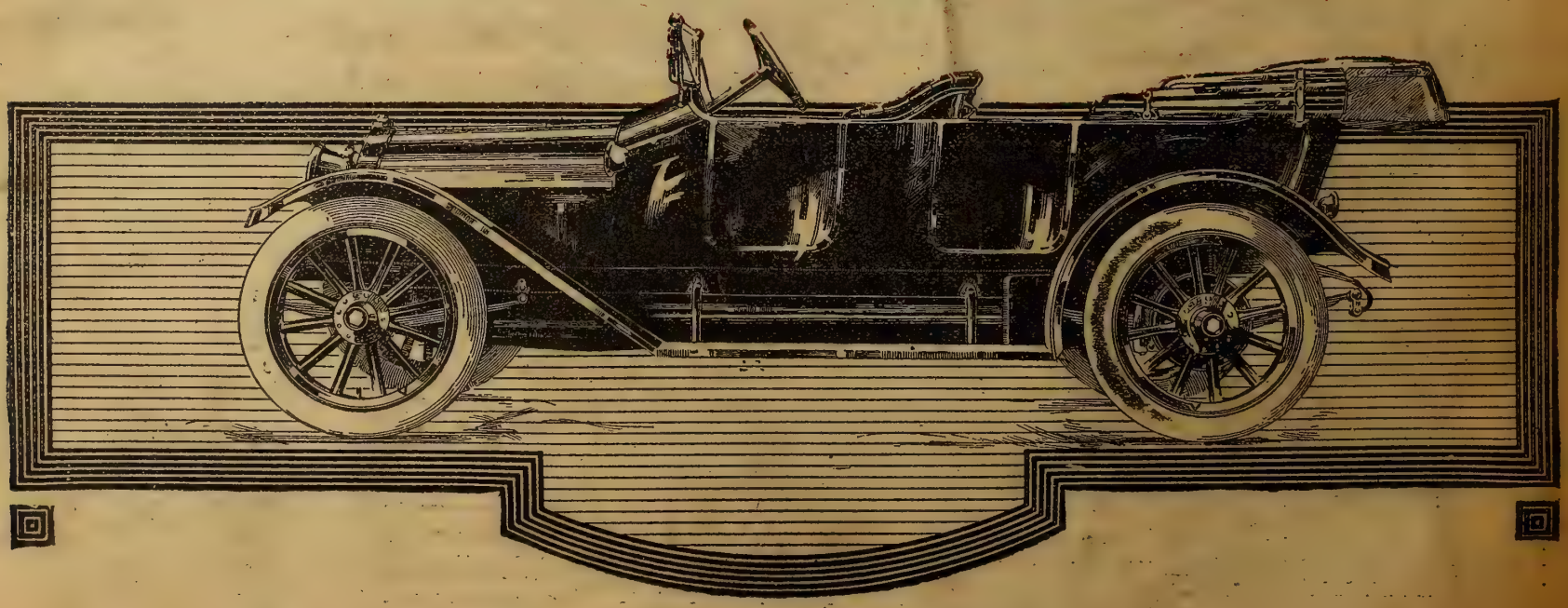

The Iowa Homestead

VOL. LVIII. NO. 39 DES MOINES, IOWA, SEPTEMBER 25, 1913. E NO. 2920

Reading Room
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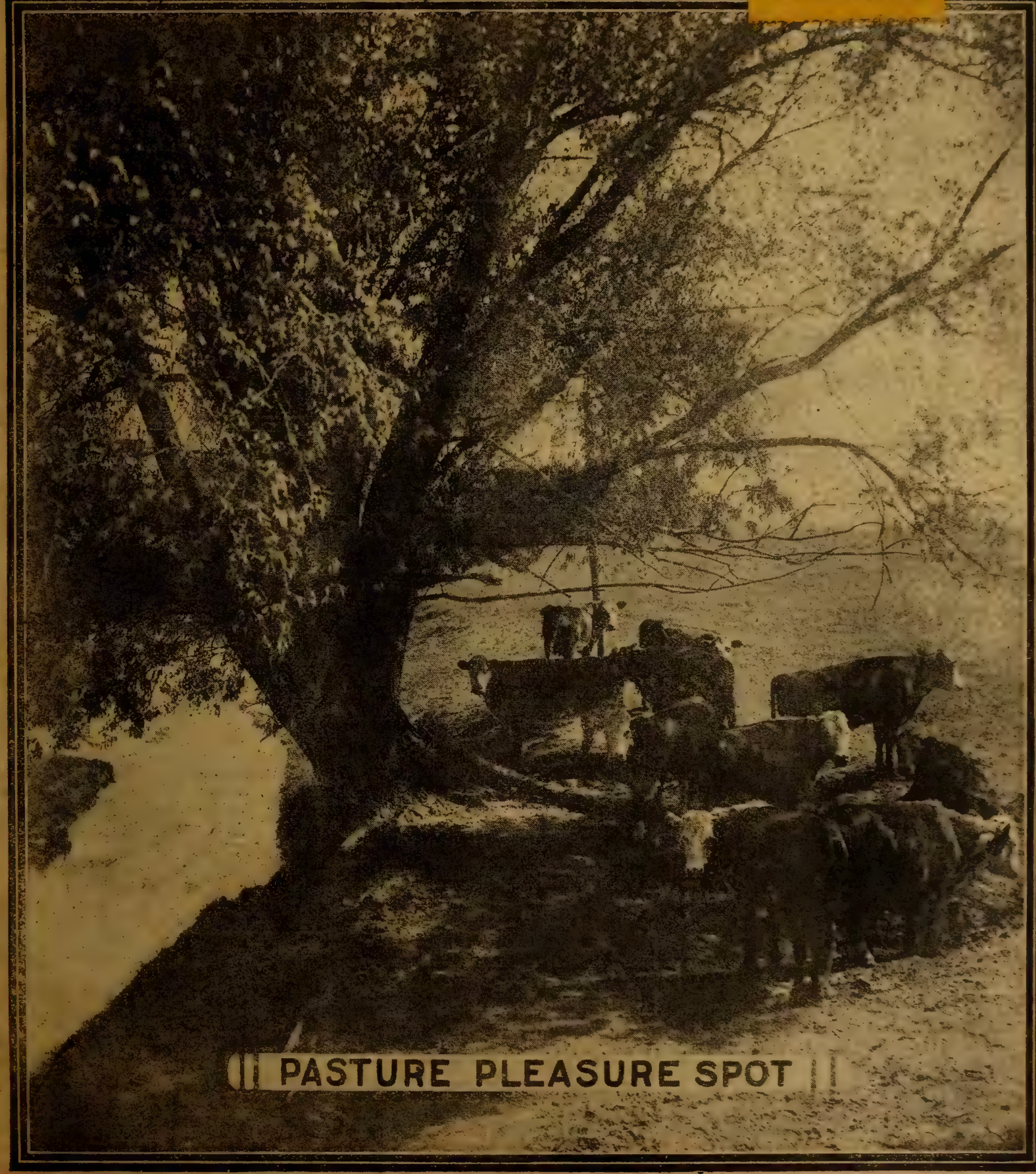

PASTURE PLEASURE SPOT

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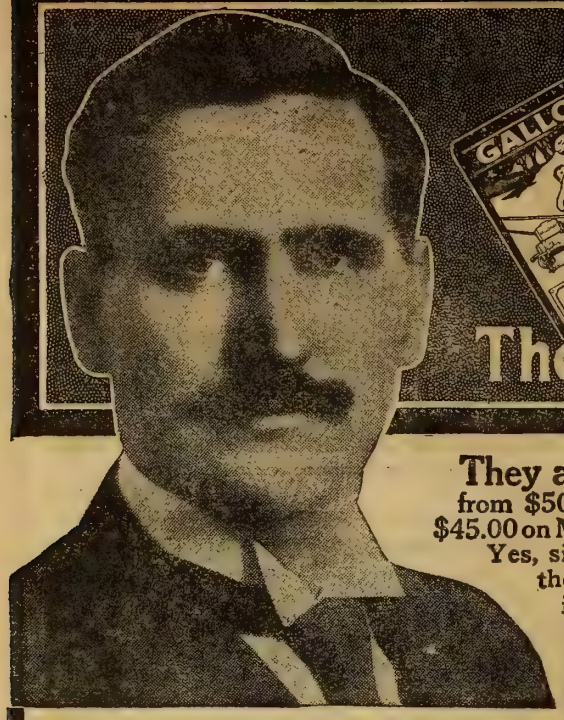

They are the best and cheapest salesmen in the world. They will save you from $50.00 to $300.00 on Gasoline Engines; $35.00 to $50.00 on Cream Separators; $25.00 to $45.00 on Manure Spreaders and from 20 to 50% on hundreds of other articles for the farm, home and family. Yes, sir; my catalogs are the best and cheapest salesmen on earth. And I can mail any one of them to you for considerably less than what a salesman ordinarily pays for a good cigar—in other words, a two or three-cent stamp pays all the traveling expenses of my Catalog Salesman. My Catalog Salesmen show you just how Galloway Machines are made, the kind of materials they are made of, the sort of high-grade, modern machinery used in their construction, and explain in simple terms our "Square Deal," direct-from-factory, one-profit only, plan of selling. You'll find all my statements and claims in "black and white" always before you. My Catalog Salesmen won't bother you or take up your valuable time when in the field or at work on some important job, but they are always at hand when you want to consult them. And best of all, they save you big money for they save you all the middlemen's profits. When you buy of Galloway you pay JUST ONE SMALL MANUFACTURER'S PROFIT in addition to the actual cost of materials and labor that enter into the construction of the machine. It's this "short cut"—"direct from factory" plan of selling that makes it possible for me to offer you as high a grade 5 h. p. gasoline engine as there is on the market today for only $99.50, or a complete manure spreader at only $69.50 and the new incomparable 500-lb. capacity Galloway Sanitary Cream Separator at only $42.50. Now, all you have to do to get the benefit of my tremendous money saving prices is to write for one of my catalogs. THEY ARE MY ONLY SALESMEN. Send for the Catalog you want today. I am making it easy for you to get these books—for all you need to do is just fill in the coupon below, tear off and mail today, for catalog wanted—or just write me a postal.

Now I am Going to tell You Some Inside Facts about My Business

I haven't any secrets about my business—the more my farmer friends know about it the better I am satisfied. My offices and factories are always open for your inspection. Thousands of my farmer friends and customers visit our big chain of factories every year and see at first hand just exactly the way we build our machines and examine the materials that are used in their construction; then go back to their homes more than ever satisfied that every statement and claim I make about Galloway Made Machines is true. I only wish every farmer in America could see just how Galloway Machines are made. If you could, my factories would have to be enlarged to ten times their present size (7½ acres of floor space) and then couldn't meet the demand. I know it. Because Galloway Made Machines have the merit—that is proven today by the fact that our satisfied customers (over 135,000) can be found in every state in the Union and in over thirty Foreign Countries. Seven years ago the name "Galloway" was practically unknown—today the "Sun never sets on Galloway Made Machines." No big business is built by accident. It's got to have something substantial back of it. Isn't that a fact?

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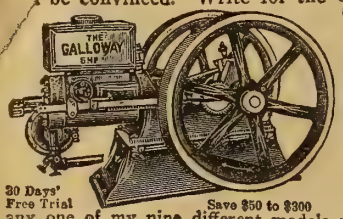

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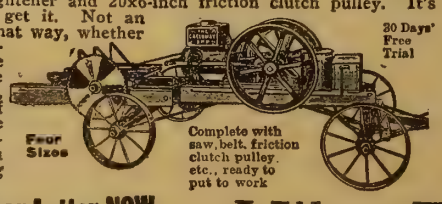

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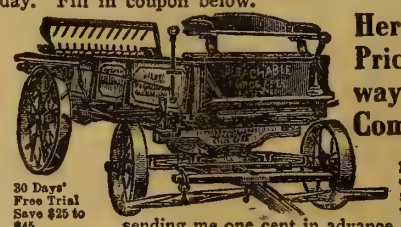

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, SEPTEMBER 25, 1913.

Where Plowing Becomes an Art

Annual Contest at Wheatland, Illinois, Brings out Thousands of Visitors—Tractor Plowing the Center of Interest

CATO of old enunciated the three fundamental principles of farming to be: first, good plowing; second, good plowing; third, good plowing, so do the leading farmers of Wheatland township, Will county, Illinois, regard the skilful plowing of the land as the basis of a sound agriculture. With the foresight of a prophet, annual plowing contests were inaugurated in this district by "Uncle Jimmie" Patterson in 1877. The events are held annually with ever-increasing interest. There were approximately 8,000 visitors in attendance on the farm of Mr. Fred Westphal on Thursday of last week when plowmen from the Wheatland and Big Rock districts again clashed swords.

The classification upon this occasion included walking plows; riding plows, either gang or single; the prize winners' class, intended for those who had taken the first premium in any man's class at Wheatland or Big Rock matches; the post-graduate class, in which were entered plowmen who had taken a silver cup two years in succession at any plowing match. In addition there was the tractor plowing class, open to manufacturers or to farmers owning tractors.

Although liberal cash premiums were offered in the walking plow class for men and boys, not a single entry was made in these classes, indicating possibly as accurately as any other factor the working of the law of evolution as applied to plows. When these contests were started there were no riding plows and of course no tractors. In commenting on this phase of the contest Mr. Patterson, the originator of the whole movement, said: "The disappearance of the walking plows altogether in these contests and the interest that is now shown in the tractor classes, as indicated by the number of visitors who are walking the headlands where the tractors are at work, indicate to me that it will only be a matter of a few years until the tractor plow will have the center of the stage. It is my opinion that in another decade practically all our plowing will be done by steam, kerosene or gasoline."

A scale of points has been worked out in the Wheatland district by which the work of every plowman is scored. Out of a possible 100 points twenty are given for a perfect opening; twenty-five for "evenness of furrow;" twenty-five for "conformation of furrow;" twenty for "straightness," and ten points for "neatness." The winner in the post-graduate class, Mr. Frank Boardman, lacked but one point of a perfect score, the judges cutting him to this extent on "conformation of furrow." All contestants in the prize winners' class, as well as the post-graduates, opened up their land by first cutting a very light furrow, upon which the two crown furrows were thrown so as to meet fairly in the center of the first "scratch." So successfully was this opening made in many instances that it was almost impossible to distinguish the crown furrows from those adjoining. By outscoring by two points the veteran plowman, Mr. William Fairweather, special honor goes this year to the winner, Mr. Boardman. In each case the finished land looked wellnigh like a masterpiece of perfection. The Fairweather furrows were so true, straight and even that it was impossible for many visitors to detect in them even the slightest defect and there were those on the headlands who believed that here was a piece of plowing entitled to the full 100 points. The judges who passed on the work were most painstaking and their awards must stand as the decision of the highest court. Mr. Boardman's score of ninety-nine points will probably stand for many a day before it is surpassed or even equaled.

THE VETERAN PLOWMAN, WM. FAIRWEATHER.

Each competitor with a riding plow was obliged to use three horses and was required to plow half an acre, while with the gangs four horses were used and three-quarters of an acre required. The work was to be done in three hours. Some latitude was allowed the plowman in regard to depth, this varying from five to six and one-half inches. A level bottom for each furrow was compulsory. No handling of the soil was allowed, as each furrow had to be left just as the plow turned it. While no allowance was made in the scale of points for turning under the trash, as a matter of fact plowmen vied with one another in their efforts to completely bury everything in the nature of stubble or weeds. The weed hook was on many plows supplemented by a log chain swung from the singletree of the furrow horse to the beam. As the result a twelve-inch growth of annual weeds, as well as long stubble, was completely and absolutely turned out of sight.

When the plowmen in all classes had lined up it was discovered that only the Janesville plow was being used, so that it was therefore an out and out contest between men and not between plows. What is known as a "special" bottom was used by every plowman. This type of moldboard turns the furrow smoothly, a little after the fashion of the old Scotch sod plow, and yet at the same time pul-

(Continued on page 8)

TYPES OF FARM TRACTORS THAT ARE DISPLACING THE DRAFTER IN PLOWING OPERATIONS.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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HOGGING OFF CORN.

The following communication has been received from Mr. A. A. Burger, agricultural adviser of Blackhawk county, Iowa:

As a method of feeding hogs for market there is nothing which is more satisfactory than "hogging off" standing corn. It is cheaper than the best methods of dry-lot feeding. It is satisfactory from the standpoint of the labor which is saved, and in these days of scarcity of labor and of high prices this question is becoming more important. And as our agricultural products increase in value it is more important that we follow the best systems of feeding. Certainly the up-to-date farmer will welcome any method which will reduce the cost of production.

A few years ago "hogging off" corn was looked upon as a slovenly, wasteful method. It was an indication then of a shiftless farmer, a man who desired to accomplish results without work. But today there are enough who have had experience with this method of feeding to know that from every standpoint it has been satisfactory. It was thought at one time that too much corn would be wasted. Actual tests disproved this. Indeed, hogs will waste less corn than the farmer were he to shuck it himself, except perhaps in extremely wet seasons, and in this case hurdles may be used and only as much corn allowed as can be cleaned up well in a week or ten days. The pigs can usually be turned in about the middle of September or about the time the corn is beginning to dent. Usually about ten pigs are used per acre. They may vary in size, but the most satisfactory results are generally secured with pigs weighing eighty to 100 pounds. Pigs that are larger than this drag down too much corn in the beginning and are inclined to waste it. When the pigs are too small there is a tendency toward chuffiness. It must be remembered, in this connection, that "hogging off" is not a method of growing pigs, and hence pigs which have not attained sufficient size and weight should not be used.

Some idea of the economy of the method may be had from the replies from men who have followed this system for the last ten years. In every case they have agreed that pork can be produced at a saving of five cents per bushel of corn fed, over the dry lot methods of feeding. In most of the cases over ten pounds of pork have been secured per bushel. The method has effected a saving in the cost of handling and storing the corn, which under ordinary conditions would amount to about ten cents per bushel. It is not alone that there is a saving in the feed, but it would seem that the additional feed which can be secured in the fields and the exercise which the hogs get are conducive to more rapid gains.

It will always be advisable in "hogging off" corn to feed some supplementary feeds. The most common of these will be red clover pasture, alfalfa pasture, rye and rape. Of the different feeds, perhaps rye sown in the corn field at the last cultivation has given the most satisfactory results. But where no rape has been sown in the field, it is a good plan to provide some other pasture, and if pasture cannot be had, then the feed should be supplemented by some concentrated feed like oilmeal or tankage.

At the Missouri station, hogs weighing 140 pounds were turned into corn in which rye had been sown at the last cultivation. The pigs weighed 200 pounds when they were removed from the field, and at sixty cents per bushel returned $36 per acre. At the Iowa station one lot of pigs returned 568 pounds of pork. This gain was secured with the cowpeas sown in the corn at the time of the last cultivation. The pigs were allowed to remain in the corn field for thirty days.

In regard to the method of fencing, the practice has been quite varied. Some have used hurdles; others use twenty-six-inch woven wire fence tied to the stalks. Still others put in posts two or three rods apart and stake the wire with small stakes between. Some have simply turned the hogs into the entire patch and have allowed them the run of the whole field until it was cleaned up. This will be satisfactory when pigs enough to clean up the whole field can be used, and providing that the season is not too wet. Whether the pigs should be allowed to remain in the field until all of the corn is cleaned up is a question which the farmer must decide for himself. Very frequently it will be found advisable to remove the pigs, finishing them in the dry lot and cleaning up what is left in the cornfield with stock hogs. Both methods are very successful.

Unquestionably this method of handling the corn crop is increasing in popularity and, as stated by Mr. Burger, it is not slovenly nor is it a wasteful plan. Indeed, it is a safe and sane system of handling at least a part of the corn crop, economizing first in labor and secondly in the making of gains more cheaply than will result from any other system of feeding. We would call special attention to the importance of feeding a concentrated product like oilmeal or tankage as suggested by Mr. Burger, otherwise the corn might prove a little too heating and throw the hogs out of condition by deranging the digestive system.

MUDDY BARNYARDS.

No better use can be made of a supply of straw than to throw it around the barnyard freely when the yards begin to puddle in the fall. Every man knows that liquid manure should not be allowed to waste, but, on the other hand, there is real loss and discomfort when live stock are compelled to stand up to their knees in mud and to make their beds under the same filthy conditions.

By spreading a foot or two of straw around the yard at this season of the year two purposes are accomplished. In the first place the yards will be much more easily cleaned next year if there is a layer of straw on the surface than will be the case if manure is puddled and mixed up with the soil. As to the benefit derived from the greater comfort which the practice means to live stock, no emphasis need be placed on this matter because every stockman knows that comfortable surroundings contribute immensely to cheap gains.

It is no uncommon thing to find straw-stacks two, three and even four years old on some farms of the corn belt. Why not turn in and spend a half day getting one of these old stacks or stack bottoms spread over the yard where it will accomplish something that will result in conserving fertility; that will add greatly to the comfort of live stock during the coming months, and thirdly, that will add not a little to the pleasure of those who are called upon to do the choring during the coming fall and winter?

THE EARLY MOVEMENT OF CATTLE.

A certain indication of the present pasturage condition is the early movement of cattle. With the ending of the pasture season ordinarily a month off, pastures are already being emptied of cattle that owners had intended marketing as soon as the feed in the pastures was gone. In many cases cattle are being put on the market that would not have been sold had feed conditions been better and stock water been sufficient for all needs.

The early movement of cattle means that the shipment will not be as large as at the usual time, which is ordinarily around the first of October. Cattle are being sent to market now that usually would not have gone until about that time. No one should be misled by the idea that the supply of cattle is large because receipts have been large during the past few days, as it is simply a premature movement from the pastures, due to the scarcity of feed and water. Later on, at the time of usual heavy shipments from pastures, no doubt receipts will be light. We are simply ending the pasture season a month earlier than usual this year.

The other day all receipt records were broken at the Kansas City yards when 38,000 cattle were received. That the market received no serious setback so far as prices were concerned is proof that it is impossible to lower very greatly the present value placed upon cattle. This is indicative of two things: that cattle are so scarce as to be entirely insufficient to supply demands for beef and that the country is in good financial condition and not in a mood to be upset by adverse crop conditions. In the meantime, those who possibly can do so are holding their cattle. In striking contrast to shipping conditions in 1901, folks are not shippng their cattle except as feed and water conditions make it necessary to do so. Then, stock was shipped not because it was necessary to do so, but because folks were panic minded.

WHY ENSILAGE IS SO PALATABLE.

The prime requisite in computing any ration for live stock is to make it palatable. The feeding ingredients may be ever so ideally balanced and the compound might be fed in the most up-to-date fashion, yet if it is not palatable there is absolutely no way of convincing animals that they should eat it with relish because of its food value. Going a step farther and inquiring into what constitutes palatability we have an excellent illustration in the case of ensilage. While ensilage contains a high percentage of water and a relatively small percentage of dry matter, yet very different results are obtained from its use and feeding dry fodder, allowing live stock to consume all the water they desire. It has been demonstrated in an experimental way that 100 pounds of grass fed green is worth considerably more than fifteen pounds of dry matter fed in the form of hay or dry grass supplemented by an abundant supply of water even though green grass contains but fifteen pounds of dry matter. An additional fact should be kept in mind when we try to account for the great value of ensilage, namely, that the animal will consume more dry matter and digest it more completely when it is fed in the form of a succulent food than will be consumed and digested if the food is fed dry.

The practice, therefore, of storing a supply of succulent food for winter use or even for next summer's needs is sound scientifically. Even though ensilage were no more palatable than dry fodder it would still pay to use it because of the convenience in handling, but when it is pointed out that a good quality of ensilage is much more palatable than dry fodder even under ideal conditions the case in favor of ensilage is clearly proven. Moreover such dry food in the form of grain or roughage as may be used in conjunction with ensilage is more completely digested and assimilated than if dry food alone is used. In this respect ensilage may be truly classed not only as a food of the highest value, but in reality as a tonic, whetting the appetite and stimulating the flow of those fluids that take an important part in the process of digestion. All this is accomplished without any injurious reaction that ordinarily might be associated with the use of chemical stimulants.

SOME BENEFITS OF AN AGRICULTURAL CLUB.

One of our subscribers, Mr. W. D. Neale, submits the following interesting description of an agricultural club that has been established in his community:

About a year ago an agricultural club was organized in our community. There were a few farmers who felt the need of such a club and organized it. Today there are 300 members, comprising farmers from every section of the country. It has grown in influence and today is renting a building on the main street of our city, which is fitted with chairs and desks. Here the club meets every Saturday evening for business. There are many benefits of this club.

In the first place, there is a social benefit to the farmers. Here they meet, exchange greetings and enjoy a social chat. Thereby the farmers of the community and the county are becoming better acquainted. This means a closer bond of sympathy and a better co-operation in their work. It seems of all men the farmers should have a kindly and interested feeling one for the other. But if they never meet together and become acquainted this spirit will not exist to a great degree. The agricultural club is cultivating this spirit among the farmers.

This club has been securing from agricultural colleges and elsewhere experts on many subjects of farming. These men have addressed the club on special occasions and have been very helpful to the farmers in giving them information on important subjects. By this plan the farmers have brought the agricultural college to themselves. For instance, one week an expert on dairying addressed the club, another week a silo specialist and at the close of these addresses the farmers were permitted to ask questions. Needless to say they kept the experts busy for an hour or more answering their queries.

Thus the farmers have been informing themselves on the best methods of farming, feeding, dairying, stock breeding, etc. The fruits will be seen in an improvement along these lines and greater prosperity among the farmers.

Then the farmers have as they call it "an experience meeting." At this time it may be several subjects will be covered. One recent Saturday such a meeting was held and poultry and hog raising were discussed. Farmers gave their methods of conducting each business, spoke of their successes and losses, offered practical hints in regard to treatment of diseases and in conclusion gave the profits of such a business. There were lively discussions, funny jokes, lots of information and a general good time. Each one felt he had been helped by the meeting. It was worth while.

The club has also become interested in securing better laws for the farmer, so a committee has been appointed to draft petitions to the state legislature for certain laws which the farmers feel will be helpful to them. The influence of the club will no doubt be felt all over the state in better laws for the farmer.

With the rapidly changing conditions as applied to farm life, the necessity for having just such clubs as the one described by Mr. Neale is becoming more and more apparent. After all it simply means a form of sensible co-operation that is peculiarly adapted to conditions as they exist. When organized in this way farmers of a given community place themselves in a position to stand shoulder to shoulder on every question that affects the welfare of the community. If no other benefit is derived from this kind of an organization save only that which relates to the improvement of social conditions in a given locality, this alone more than justifies the existence of such a club as is here described.

LOGIC FOR THE BEAST

I WISH my horses had some sense,"
Said Farmer Johnny Haines;
"There never were two plugs so dense;
They haven't any brains.
Gee out! Gee out! You bonehead plug,
You're tough-mouthed as a mule!
Whup! Pshaw, you've smashed my water jug,
You clumsy-footed fool!"

"I wish those chickens had some brains,"
Said Johnny with a frown;
"They roost so low that when it rains
The little fellers drown.
I wish my cows were not such fools;
Their denseness can't be beat;
They stand right in the drinking pools
And roll them with their feet.

"Those pigs rush up and spill their slop
Before they get it downed;
The horses, when I feed them chop,
Waste half upon the ground.
Their senseless antics give me fits;
It's more than I can stand.
But if the creatures had some wits
Farm life would just be grand."

Next morn when Farmer Haines awoke
The beasts stood by his bed,
And they had wits, and up they spoke,
And this is what they said:

"Get out of here, you hair-brained dunce,
There's work for you to do.
You drove us 'round these acres once,
But now we're driving you."

They went and hitched him to the plow,
The horses held the reins;
"If you try any balking now
We'll just kick out your brains!"
The cattle said: "We'll hook your ribs;"
The chickens said: "We'll bite,
Unless you fill the bulging cribs
To feed us creatures right."

The food he cooked the piggies ate,
And let him have the scraps;
They worked him early, worked him late
And plied his back with straps.
When winter's snow fell on his head,
They didn't care a darn;
They hovered in the house well fed,
And kept him in the barn.

As in the manger stall he stood,
A halter on his jaws,
He vowed that man can do no good
By changing Nature's laws.
"For brains in brutes I used to pray;
I'm sorry now I spoke."
Just then the nightmare passed away
And Farmer Haines awoke.

—Kansas City Times.

GRAIN FOR THE WEANLING.

It is a simple matter to take 200 or 300 pounds from the mature weight of a horse by a little carelessness during the period of colthood. We have in mind especially the weaning period when we call attention to the urgent necessity of keeping the colt growing continuously in order that his baby flesh and muscle may be maintained.

The weaning period may be passed through most successfully without any special pampering by the sensible precaution of letting the little fellow have about all the grain he will consume during the weeks preceding this critical period. Some horsemen advise using ground oats, while others recommend ground corn, but we have found that even whole, dry oats constitute a most excellent ration for the young colt.

It is not enough that the colt should simply share his mother's meal, a far better plan being the installing of his own little manger where he can have just such a ration of grain that will be cleaned up promptly three times a day. If there is a supply of bran at hand 25 per cent of the ration may be made up of this product, but, as said before, whole oats are in themselves a most excellent ration for the young colt.

Weaning time involves, as it were, two hardships on the young colt. In the first place changing from liquid to solid foods amounts almost to a shock to the system, and in the second place, it is a real calamity when the little fellow finds that he has to make his way in the world alone. In other words, the feeling of lonesomeness must be taken into consideration, because it affects health, growth and thrift more than we are first inclined to believe. A good, tight box stall where there can be little chance of injury is the best place to give the first lesson. If for a period of a week or ten days the colt can be allowed to suck, say three times a day, and if during the next week it is reduced to twice a day and the following week to once a day there will be practically no injurious results come from the lonesome feeding. In this connection, however, we would like to emphasize the importance of using plenty of good food with special reference to the necessity for supplementing the grain with a little clean, fresh clover hay. Second-growth clover is ideal for this purpose.

If perchance the colt has for his little master a sturdy farm boy the situation will work itself out ideally, because the boy always knows that a handful of oilmeal mixed up with the grain adds to the thrift and sleekness of the little fellow, and a boy always sees to it that there is a little salt-box in the corner of the stall. Furthermore there is no case on record yet where a boy has forgotten to keep his colt well supplied with fresh water.

SILAGE FROM DRY FODDER.

Numerous instances have been called to our attention where shocked fodder has been converted into good ensilage. It frequently happens that with but one silo on the farm there is sufficient live stock to consume much more roughage than the silo will hold at one filling. Where this is the case a considerable acreage of corn is usually put in the shock, this being fed out during the late winter and early spring months. Much disagreeable labor can be avoided if when the silo is empty the cutting outfit is again put in place and the silo refilled.

Where this plan is carried out plenty of water must be used. One instance has been called to our attention where a three-quarter inch hose has been allowed to run into the blower during the process of filling, this being followed up by saturating the whole mass from the top when the silo was filled.

We are firmly convinced that this plan of filling the silo with dry fodder during the winter months has been sufficiently tried out to justify its repetition by every man who has the fodder in the shock and who is in a position to command sufficient help to fill the silo the second time.

The purchase and operation of prison farms is one plan Herbert S. Hadley, former governor of Missouri, would recommend to supplant the contract convict labor now in vogue at the state penitentiary.

James M. Pierce

THE PUBLISHER'S VIEWS ON TOPICS of THE TIME

TWO KINDS OF PUBLIC SERVANTS.

THERE are two kinds of public servants: the one who finds out what is most popular with his constituents and acts and votes accordingly, and the one who has convictions of his own, fights for them unceasingly and unswervingly and swings the people around to his own way of thinking or goes down to defeat, battling for what he firmly believes is right. The first leads by skillfully following. The second leads so far in advance that often the people do not catch up with him until he has fallen in the fray.

Examples of both kinds of public service have come within my observation during the past year. The first was when the fight for and against Canadian reciprocity was on in the senate. Personally I exerted every possible effort to defeat the bill, circulating petitions, writing letters and editorials and doing everything in my power to prevent this injustice being foisted upon the American farmer. I was convinced (and still firmly believe) that such one-sided Canadian reciprocity as was proposed by President Taft was unfair and unjust to the American farmer. We needed votes in the senate to defeat the bill. And yet I cannot bring myself to admire the grain-belt senator who withheld his opinion on the great principle at stake until he saw how the wind was blowing back home and then publicly announced that he would vote against the bill, although he favored it personally and did not believe it would affect the grain-belt farmer materially one way or another. We needed that senator's vote, and yet when the fight was over I found myself respecting the man who voted in favor of the bill (because it represented his honest convictions) far more than I respected the man who voted against the bill because he found his political fortunes dependent upon such action.

An example of the second kind of public service was presented in the senate last week, when the tariff bill came up for final vote. The democratic ranks showed two desertions: members from Louisiana who knew that they would dig their political graves by voting for the free sugar proposition (Louisiana being a great sugar producing state) and so saved their own scalps by deserting the party ranks. The republican ranks likewise showed two desertions, but not the kind manifested by the Louisiana senators. An honorable senator from Washington (Miles Poindexter) and an honorable senator from Wisconsin (Robert LaFollette) voted in favor of the democratic tariff bill, because they believed the country had demanded revision downward by the overwhelming popular vote it gave Woodrow Wilson and because they believed the Underwood-Simmons tariff bill (imperfect as it undoubtedly and admittedly is) better than the existing Payne-Aldrich bill. Explaining his vote, Senator LaFollette frankly admitted that what he did was "a political sacrifice," but added that "that within me compelled me to vote for the bill." His statement was greeted by thunderous applause.

I do not think we need to consider the merits or demerits of the Underwood tariff bill to agree that Senator LaFollette did a brave thing and set an example which others might well follow. What we need are more lawmakers who vote according to their honest convictions and for the good of the nation as a whole, regardless of how the political winds are blowing and of how certain measures will affect their home sections rather than the entire country. We may or may not be admirers of the men themselves; we cannot honestly withhold approval of a patriotic courage which puts public service above individual fortunes.

CHEAPNESS VS. EFFICIENCY.

I CAME to the conclusion long ago that it does not always pay to buy cheap things, particularly in this day when the unscrupulous are adulterating almost everything we eat or use. Take as common a thing as the shoes we wear. The ordinary man, such as you and I, cannot see much difference between a two-dollar pair of shoes and a four-dollar pair. One is just as easy on the feet, just as shiny and apparently just as durable as the other. Yet the chances are nine out of ten that the sole of the two-dollar shoe will wear out twice as quickly as the sole of the four-dollar shoe. Why is it? I did not know the reason until I found it in a Department of Agriculture report the other day. The cheap sole is adulterated, with nothing more nor less than epsom salts and glucose. I'll warrant that the average farmer has no idea of the fact that twelve million pounds of epsom salts and glucose are used as shoe-sole adulterants every year in America. We think we are walking around on cowhide, when in reality we are walking around on a mixture of poor leather, brown paper, epsom salts and glucose. It is to the everlasting credit of Kansas that it put a bill through the last legislature preventing the further sale of such adulterated shoes. The Kansas "pure-food" shoe law might well be adopted by every other state.

It took me a good many years to learn that economy is not always efficiency; or, rather, that by buying cheap things I was not always saving money. But slow as I was in learning this, I was no slower than some of the men, with great reputations as financial experts, who are running the affairs of some of our big corporations. Take the railroads, for instance. You and I can easily remember how the railroads fought against the air brake, that wonderful invention which has saved thousands of human lives and minimized accidents as perhaps no one other invention has done. It required strict laws compelling its adoption, within a certain time, before the air brake came into general use. And even then the railroads fought the orders and laws from court to court, pleading for a postponement of time, urging poverty and offering all manner of excuses. Today there is not a railroad that would go back to the old hand-brake days, with their slow speed, their hard labor and their numerous accidents.

I shall never forget the first time I rode on a passenger train. It was back in 1855 or '56, I do not remember exactly which. I was then a boy of seven, and the impression left on my mind is very distinct today. The road was in central Ohio, a part of the big Pennsylvania system of today. Wood was used as fuel, every two or three miles a few cords being piled alongside the track, available if the engine supply gave out. The brakeman was a very important and busy person in those days. When the engine whistled for a station, the brakeman rushed down the car aisle, flung open the door, grabbed the brake wheel and turned it vigorously until the brakes were applied. Then he rushed frantically through the car, to the other end, going through the same laborious performance, until finally, and slowly, the train came to a crunching stop. Just contrast that laborious hand performance with the ease, safety and quickness with which the brakes are applied, by the engineer in the cab, by means of air today.

It seems to me that the time is coming when an equally striking contrast can be made in regard to the rolling stock which most of our railroads furnish to their patrons. Two big wrecks, in the east, shocked the country a few days ago. One occurred on a line which uses only steel cars, and although a half dozen coaches were thrown from the track and the wreck was a bad one, not a single life was lost. The other occurred on a line which uses the old-style wooden coach and thinks of nothing but the dividends to the stockholders, fighting every move for improvement. The accident was no worse than the other one I have just spoken of, yet twenty-one lives were lost. The contrast was so striking that the congressman who is chairman of the safety appliances sub-committee of the Interstate Commerce Committee of the house is drafting a bill compelling every railroad to abolish every wooden coach and supplant them with steel coaches within the next five years. Of course, the railroads will fight the bill, just as they did the air-brake laws of the various states. But isn't it false economy to go on paying immense personal injury damages, as a result of frequent wrecks, when accidents could be minimized and human life safeguarded by just such a precaution as the proposed law imposes?

Do you know what the railroads will say the first thing? They will say that the people themselves are to blame. Why? Because the people are everywhere demanding lower rates of fare. The railroads might not (possibly would not) use their larger profits to improve their rolling stock, but they will use low fare as an excuse. And so we are back to the starting point: cheapness versus efficiency. Since many of the grain-belt states have gotten a two-cent-a-mile law the service on a number of the railroads has become perfectly abominable. Take the case of state-fair traffic for instance. A good friend of mine came into town during state-fair week on a train not a single coach of which had a drop of drinking water. Another one came in on a train so crowded that women and children were compelled to stand in the aisles. Another one came in on a train with unsanitary and positively filthy toilet accommodations. The railroads, when called to task, come back with the reply: "You forced cheap fare on us; now take cheap accommodations." Even their eleventh-hour promises of improvement, every time a wreck startles the people into activity, have a way of being forgotten or ignored, after the excitement has subsided. It was this that caused a newspaper poet to write:

There was a little road, and it had a lot of stock
And its sleeping cars were made of wood, wood, wood,
And every time a train mixed a signal on the block
The railroad promised to be good, good, good.

This whole question is one which you and I can't settle offhand. But the point is just this: there is something else to be considered always than cheapness. We have learned our lesson with the cheap shoes and will never buy another pair. Let's learn our lesson with the cheap railroad fare and the next time we dictate terms to the railroads compel them to give us accommodations fit for human beings and safeguarding human life. When we have gone this far perhaps the financial geniuses who control the big corporations of this country will likewise have seen a great light, and will learn that in the spending of millions, just as in the spending of hundreds, a dollar saved in the first place is not always saved in the long run.

James M. Pierce

Where Accuracy Is a Big Factor!

Gone are the days of haphazard Farm methods. Now farms are run on definite schedule. Moments are golden. Each farm is a big manufacturing plant. Its employees, its machinery, the soil itself—all are crowded to fullest capacity. The saving of each moment counts in lowering production costs.

The farmer, *more than the city business man*, needs an accurate and dependable watch.

Your city man can better afford a make-shift. He is only a block away from the repair shop. And he lives and works where public clocks face him on every hand. So, when his watch goes wrong, he suffers only slight inconvenience.

The farmer, on the other hand, is miles away from the watch doctor. Unless he bought it from a reputable jeweler and had it then and there *expertly regulated to his personal requirements*—his watch is going to run fast or slow. For regulation or repairs he must take it or send it in—and wait!

The "South Bend" Watch

absolutely insures you against watch troubles.

First, because of the way it's *made*. Second, because of the way it's *sold*.

We take six full months to build it. Then it must run 700 hours on trial and it is inspected 411 times in the making. Finally, it must keep perfect time in a refrigerator and then in an electric oven. Then, and then only, it is ready for you. No condition to which *your* habits and environments can subject it can more severely test its "staying" qualities.

Having produced, in the SOUTH BEND, the Master Time-piece, our next responsibility is to deliver it as such to you. This we could not do if we permitted the SOUTH BEND to be sold by mail.

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For only a jeweler—and a very expert one at that—can properly regulate it to your person. So we have *picked* 15,083 jewelers in the large cities and the small villages of the United States to sell SOUTH BEND Watches. Each of the 15,083 knows this famous ice-proof, furnace-proof watch from A to Z. Each is an expert in watch regulation.

You can rely upon it that any SOUTH BEND Watch sold to you by any SOUTH BEND dealer will give life-time satisfaction and service. This much—and more—we guarantee.

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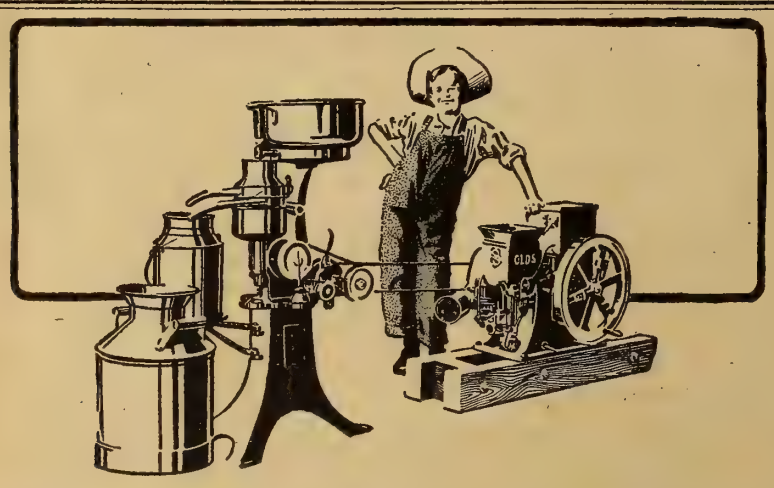

Paying Engine Combinations

We've made it easy to pick out your engine and the machines that you'll run with it. We have most of the machines you'll need, in sizes to fit your engine—and we have just the size of engine you'll need, from 1½ to 35 horsepower, gasoline or kerosene. Consider these suggestions—then ask our dealer to make up a complete outfit for you. Just for example:

Size of Engine	*Machines*
1½ h.p. up	Rumely Pressure Pump Rumely Pump Jack Dynamo, Saw, Etc.
3 h.p. up	Rumely Saw-Rig Rumely Grain Dump
3-5 h.p.	Rumely Sheller No. 2
6 h.p.	Rumely Baler, Junior
4½ h.p. up	Rumely Feed Mill
8 h.p.	Rumely Baler—Standard
6-10 h.p.	Rumely Sheller No. 4B
15-35 h.p.	Rumely Silage Cutter
Also Bigger Engines	Bigger Rumely Machines

Send for "The All-Round Power Plant". Ask our dealer in your town for the GasPull Data-Book, or the Olds Engine Data-Book, or a special book on each other machine.

RUMELY PRODUCTS CO.
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Tractor Combinations too, a GasPull or OilPull Tractor, 15 drawbar, 30 belt horsepower, with Rumely Corn Sheller, Advance Husker-Shredder, Rumely Hay Baler, Advance Silage Cutter.

This boy could learn to run our tractors. So could you.

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

Cattle and horses should not run together and be shut in the same small corral together. It may be all right to pasture them together, but in the corral, particularly during the cold weather, one is liable to hurt the other. Horses will run the cattle and cattle may hook the horses.

Although the long drouth was ended too late to be of benefit to the 1913 crop throughout southwestern states, the rain they have been getting there of late makes everyone feel better.

I like to sow small grain in the fall as early as it is safe to do so. If it has time to establish a good root system it stands a better chance of living through the winter, and if it makes too much growth above the ground I have stock that will eat that off.

Soon be cool enough so cotton gloves come handy when working at the chores. I buy them in dozen lots, but it seems they do not last as long as they once did. Those made at home, out of good quality cloth, last much longer, but the labor of making by hand amounts to more than the entire cost of the factory product.

It has always seemed to me that the man who produces an article should have first choice for his own use. Going on this theory, I take first pick of the bunch of shoats for my own meat. A fancy corn-fed steer, however, is going to be almost too rich for most of us, this winter, though.

The consolidation of schools works out under certain circumstances, but I am not of the opinion that the large-sized country school needs consolidation. In my district there are fifty scholars, and while all of school age do not attend, there are enough to make a good-sized school, the teacher is doing excellent work, and I cannot see where anything would be gained by consolidation with other districts.

It is a mistake to begin shredding corn too early. Let the fodder cure thoroughly and then do not underestimate the damage that dampness at the time of shredding may do. Shred fodder when it is dry.

A post that is well set may last longer than one which has been made smaller by sharpening so as to drive it easily, but it is seldom as solid as the driven post. When the soil is water-soaked the set post is more easily leaned by stock pushing on the fence.

The feeding of snapped corn is more or less of a nuisance, but when the corn is still too green to husk easily I sometimes snap a few loads for the hogs. Husks soon fill the feeding place and blow about the yards.

Hogging down corn is something that is all right when done in a reasonable way, but the herd should not have the run of a greater acreage at once than they can clean up in a few weeks or there will be waste in half-eaten ears rotting on the ground. It makes soil richer to let hogs eat corn where it grew in the field.

Planting an orchard or a windbreak is only the first step just the same as planting a field to corn is the first step toward a corn crop. The care that each receives after planting will show when the goal is reached in either case.

There are several good makes of hand separators and no one can be sure of getting the very best, but with this as with all other machines it is well to see that the maker's name is backed up with reputation of long standing. A hand separator that does poor work creates a "leak" that no one can afford.

It is a mistake to wait for any particular "seed-corn day." Your seed corn day and mine is any day that we can go into the field and gather the corn and take care of it. Those who have never gathered their seed in the fall should try it this year. It beats the old and easier way. The good old times of long ago may bring up pleasant memories, but the old methods of farming must give way to the new.

The low wagon and the low rack are "the thing" for hauling corn to the silo. Lifting bundles of green corn all day will take the keen edge off any silo enthusiast.

Running the corn binder as high as possible makes easier work of shocking and handling the fodder without much loss of feed, but it makes harder work for the horses. In cutting for the silo the "stump" can go with the rest.

Beware of the stranger who comes to you with a cocksure scheme whereby you are to make some easy money. It is a hundred-to-one shot that you have the money in your pocket and that he is working a scheme to make your money easy for him. Easy money never needs to go begging to find takers.

Throwing corn into the mud for the hogs is out of the question with us at the present because there is no mud. Throwing corn into deep dust is but very little better. Do everything possible to keep hogs thrifty without doping.

The high price of hay is causing everyone to think twice before feeding so much that there is enough left in the mangers for bedding.

No one owning a gasoline engine that runs with batteries can afford to be without a tester. The only way to get full power with gasoline is to ignite it with a strong spark.

DIGGING AND STORING POTATOES.

To the Editor of The Homestead:

Potatoes should be dug when the ground is dry; then the tubers will be comparatively free from dirt. The cleaner and drier the potatoes at digging time the better will be their keeping qualities.

We never practice the plan of allowing potatoes to lie in the sun for any length of time, but pick them up and carry them to a cool, shady place, where they are spread out and cooled as soon as possible. It is important that careful handling be employed, as the tender skin is easily broken, causing the tubers to decay. One decayed potato is liable to cause the loss of many others by coming in contact with those lying next to it.

We do not recommend too early digging of potatoes, as we know from experience that they will not keep so well if dug while the weather is hot. Some years ago we raised a fine crop of potatoes of the White Star variety. These were dug the last day in August and hauled direct to an old house on the farm, where they were scattered out thinly over the floor in order that the air might circulate freely among them. In a few days we went back to examine our potatoes and half of them were already rotten. Hence our objection to too early digging. Since then we have invariably dug our crop of potatoes later in the season, usually the last of September or the first of October, owing to the condition of the ground. Potatoes are sensitive to cold and a slight frosting ruins them, hence they should be stored before freezing weather.

We have kept them in pits and in cellars, but we prefer a dry, well-ventilated cellar rather than pits. If covered deeply enough to withstand any sort of weather that may come they sprout badly while if covered lightly there is danger of freezing. On the whole, we think the cellar the best for storing potatoes and the labor is less than if stored in pits.

J. T. McCoy.

A method of producing potassium fertilizer by treating in the electric furnace feldspar or other minerals containing potassium, with a suitable proportion of carbon and iron, has been invented by a Swedish electrochemist.

CURRENT EVENTS

THE Mexican situation is clearing. During the past week President Huerta sent a message to the Mexican congress in which he promised to spare no effort to bring about the unrestricted election of president and vice president next month, declaring that it would constitute the greatest triumph of his career to turn over the office to his successor with the country at peace, as he hoped to do. His message was so conservative and conciliatory in tone that it meets most of the demands made by President Wilson, through ex-Governor Lind, of Minnesota, and goes a long ways toward re-establishing friendly relations between the two countries. At the same time, President Huerta shows that he continues to believe the American people are not back of President Wilson in his Mexican demands, saying "the tenseness of our diplomatic relations with the government of the United States of America, although luckily not with the people," had put Mexico into a state of apprehension. It is confidently expected that Huerta will realize that President Wilson has the rank and file of the American people back of him to the extent of meeting Wilson's demands and resigning before the election, if he intends to be a candidate to succeed himself. Should he do this and should the election be held regularly and legally, there will then remain no reason why the United States should not send an ambassador to Mexico City and friendly relations between the two governments be again established.

THE impeachment trial of Governor Sulzer, of New York, is now in progress before the upper house of the state legislature. Governor Sulzer is charged with having diverted public campaign funds to his private use and having gambled on Wall Street at a time that he was publicly declaring against such action on the part of others. While these are the public charges against him, it is quite generally recognized that his trial is more the effort of the powerful democratic organization, Tammany Hall, to unseat him because of the fact that although elected as a Tammany democrat Sulzer has since refused to obey Tammany dictates and has even fought the organization. Tammany Hall has a way of getting even with, or rid of, its enemies, hence the charges brought against the governor, in which politics play an important part. An outside view of Sulzer is about sufficient to convince anyone that he is somewhat of a demagogue. However, since assuming office at Albany, he has been devoting himself to the cause of popular reform and has attempted to compel the legislature to enact a capable primary law, in order to increase the powers of the people. The sympathy of the state is largely with the governor, although the outcome of the trial in the senate at Albany is extremely doubtful.

WITH the tariff revision bill passed by both the house and the senate, congress has settled down to work upon the currency bill. Some difference of opinion exists as to whether President Wilson will be able to impress his currency views upon congress as successfully as he did his tariff views. Bankers and financial leaders differ in their opinion of the Glass-Owen currency bill, some opposing it bitterly and others declaring that it will give the relief necessary and provide a more elastic currency. President Wilson has already sent a message to congress declaring that a revision of the currency must necessarily follow a revision of the tariff in order to make it easier for business to meet the changed conditions. It is known that the president is insistent upon currency legislation at this session, rather than have a postponement to the regular session which convenes in December, and as he has a way of winning out on most things that he sets himself to, the belief is gaining ground that he will get what he wants in this matter. As a result congress will probably be in session almost continuously until Thanksgiving, unless a compromise can be effected on the currency problem in the near future.

ONE of the peculiarly picturesque products of America politics died during the past week, "Big Tim" Sullivan, Tammany congressman. A product of the Bowery slums of New York City, Mr. Sullivan died possessed of more than a million dollars, notwithstanding which his body lay unclaimed and unrecognized in the New York morgue for almost two weeks. Suffering in recent years from an unbalanced mind, Sullivan wandered from his nurses and was killed by a train, his body about to be interred in the potter's field when it was recognized and given elaborate burial by his thousands of New York friends. Mr. Sullivan had served several terms in the New York legislature and three terms in the United States congress, although he never felt himself at home or was the political power at Washington that he was in Albany. Amassing a fortune through shrewd race track and theatrical investments, he proved to be a real friend of the poor man throughout his entire career. One of his pet benefactions was an annual Christmas dinner, served to thousands upon thousands of poor folks in New York, no card of admission or any requirements being necessary, and every diner being given whatever clothing he needed, in addition to a big square meal, a pair of shoes, hat, clothing or whatever the need might be. This benefaction cost Sullivan a large sum of money, but it was never begrudged. He was kept in office by the vote of the poverty-stricken sections of New York and he remained faithful to his constituents, thus setting an example in his peculiar way that might well be followed by others representing a much higher class of people.

SELECT SEED CORN EARLY.

To the Editor of The Homestead:

The greatest factor in reducing our corn yield is poor seed. And poor seed is the result of careless methods and lack of attention. The great loss to our principal money crop can be easily avoided by only a little extra care and attention without the necessity of much labor and without any extra expense.

Every farm should be supplied with seed corn picked from the field before October 1st. Statistics show that corn gathered on that date contains about 45 per cent of moisture and hence a frost at that time will result in a lower vitality in a very large per cent of the

THE FIRST "SEED" EAR.

corn standing in the field. On the average only about 87 per cent of our corn shows a strong germination and there have been seasons when the vitality of the corn was so poor that seed corn was not to be had at any price. Why

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Also a full line of Underwear, Hosiery, Scarfs, Veils, Gloves, Leather Goods, Jewelry and a complete line of Boys', Misses' and Children's Wearing Apparel.

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We prepay postage and expressage on all our goods to any part of the United States.

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This Special Suit Booklet is sent gladly, but only when asked for.

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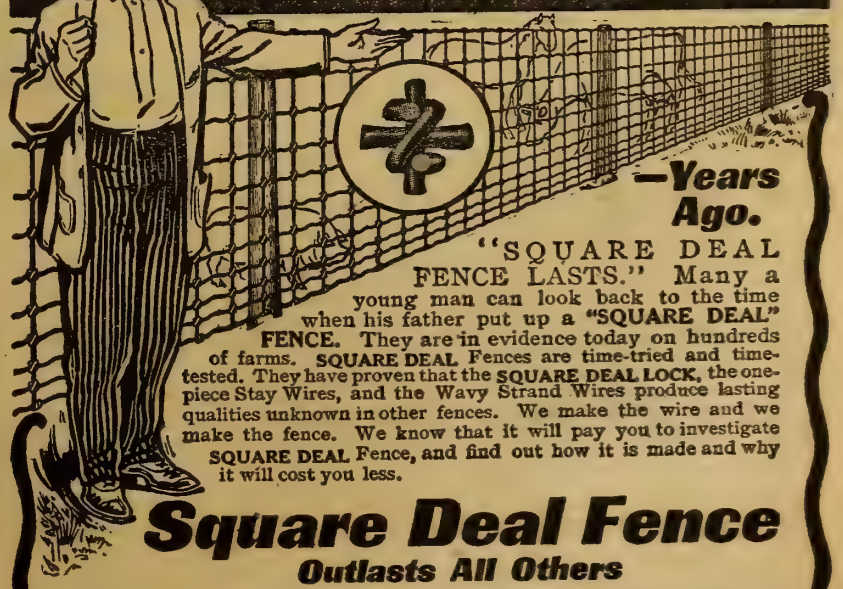
"My Father Put Up That Fence"



—Years Ago.

"SQUARE DEAL FENCE LASTS." Many a young man can look back to the time when his father put up a "SQUARE DEAL" FENCE. They are in evidence today on hundreds of farms. SQUARE DEAL Fences are time-tried and time-tested. They have proven that the SQUARE DEAL LOCK, the one-piece Stay Wires, and the Wavy Strand Wires produce lasting qualities unknown in other fences. We make the wire and we make the fence. We know that it will pay you to investigate SQUARE DEAL Fence, and find out how it is made and why it will cost you less.

Square Deal Fence

Outlasts All Others

—because of its unusual construction. The SQUARE DEAL Lock grips the stay wires above and below each strand wire. The wavy strand wires keep the fence trim and tight summer or winter. The Stay Wires prevent sagging or bagging. They cannot spread. Hogs or pigs cannot lift SQUARE DEAL Fence and crawl under. Any sudden pressure or impact is distributed over a large surface. Knots are smooth and cannot hold water or gather rust. In every rod of SQUARE DEAL Fence there are 33 up-right stay wires six inches apart, extending from top to bottom of fence and each stay wire acts as a post. Costs less for posts. Fence lasts much longer, looks better. Stock cannot break through or get under.

FREE—To every farmer or land owner who wants to learn more about SQUARE DEAL Fence, we will send our SQUARE DEAL catalog and dealer's name and ROPP'S NEW CALCULATOR—worth its weight in gold FREE. Ropp's Calculator will give you the answer to any business problem that arises on the farm. Full of information that will interest. Write today for these free books.

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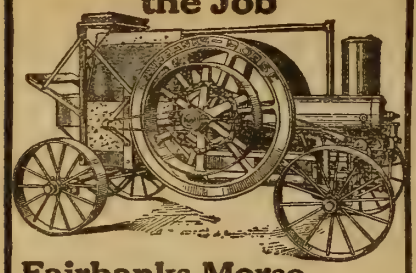

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Screen Cooled Type; 10 to 25 H. P. Other Types, 4, 5, 6 and 8 H. P.

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IT PAYS to have a Howe Scale—guaranteed kind—backed with sixty years reputation—they are the standard scale of America today.

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Empire Steel Wheels are strongest, most durable, best in every way. If they were not we would not dare ship a full set for a 30 days' free trial. We know that actual use will *prove* how indispensable they are. Will make your old wagon good as new—lighten your work—make hauling 25% easier—save money because they never need repairs. All sizes, fit any axle. Write for big free book and particulars of our Free Trial Proposition; also special offer on new model Empire Handy Wagons—20 styles. Write today.
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Stud Anchor. For barns, corn cribs, garages, using **concrete** wall, pier or floor. No sills needed, nothing to rot. Studs bolted to foundation.
Stud Anchor Works, Mendota, Ill.

take such risk? Even under average conditions seed corn properly picked and stored would easily add five bushels to the yield of every acre. Indeed a test of 5,072 samples of corn taken from the farmer's planter boxes and planted side by side on the county demonstration farms, shows that the good seed corn yielded eleven bushels more than the average of all the samples.

In selecting corn from the field it will be convenient to use a grain sack, tying it so it can be suspended from the shoulder. The corn can then be carried to the end of the row, emptied on the ground and later gathered up in a wagon. Corn should not be allowed to lie on the ground over night nor piled on the floor nor in ricks. It should be hung up in a dry, well-ventilated place. A dry, well-ventilated cellar or furnace room is best, but a dry attic, spare room, shed or crib or any dry, well-ventilated building will do. Avoid such places as a stable over or near stock, over oats or corn, damp cellar, closed attic, over kitchen or in the sunshine.

Corn is our most important crop. Its yield and profits can be easily increased by

1. Selecting seed from the field before October 1st.
2. Saving at least twice as much seed as needed.
3. Hanging the seed up in a dry, well-ventilated place, so that the ears will not touch each other.

H. A. Burger.

WHEN PLOWING BECOMES AN ART.

(Continued from page 3)

verizes the soil. Many a plowman was eager to point out the advantage of this type of moldboard over the old-fashioned board which "throws" the furrow. This plow is after all but a logical result of these Wheatland and Big Rock contests because what is "good plowing" among these experts must be a pattern for farmers to fashion after. Mr. Patterson's views on this phase of plowing are of interest: "I feel," said he, "that these contests have in a way affected the welfare of more farmers in the United States than has any educational institution in this or in any other state. We have demonstrated to the manufacturers the type of plow that most nearly meets our requirements and in their endeavors to meet these requirements they have placed on the market, and therefore within the reach of every farmer in the United States, the kind of plow that we have demonstrated to be most useful. Those companies that refuse to come up to our standard must take a back seat ultimately or get into line and meet the real needs of the real farmers. In this way you can therefore see that the whole system of plowing matches as it is carried out here and at Big Rock is primarily educational, affecting more immediately the people in this vicinity, but reaching in its beneficent influence all classes of farmers in and without the state."

Nine tractors competed for the silver cup in the tractor class. The outfits varied in size from the three to the ten bottom plows. In this class the silver cup was won by the J. I. Case Company, with a six-bottom kerosene-gasoline outfit. Other entries in this class included a three, a four, a five and a ten-bottom outfit, respectively, from the International Harvester Company; a six-bottom plow from the Joliet Oil Pull Machine Company; a five-bottom plow from the M. Rumely Company and a ten-bottom Aultman & Taylor outfit manufactured by the Parlin Orendorff Company.

It is an agricultural event of more than passing interest when 8,000 people assemble on one farm for any purpose whatsoever. In this case, the work of the plowmen was the main center of interest, but attention should be called to the domestic science contests conducted under tent by the ladies of Wheatland, DuPage, Oswego and Naperville townships. Cash premiums were awarded on a multitudinous list of household articles. An endless variety of sewing exhibits were submitted to the committee of judges, while in the classes for breads, cakes, pies, etc., the number of entries was sufficient to present an almost herculean task to the committee of judges. In addition there were classes for grain, fruit and vegetables. In this way the program carried out upon this occasion interested every member of the farm household. If in the plowing classes skill was displayed that possibly could be matched by no other set of plowmen outside of the Wheatland district, so must it be conceded that in the articles of food and needlework displayed on this occasion there was an equal indication of deftness and skill.

In every respect this was an ideal gathering of farm people. There were no sideshows to furnish mock entertainment, such as are often found at some of our fairs and expositions, and the bark of no venders of shoddy goods disturbed the serenity of a most pleasurable occasion, the immediate and far-reaching results of which can hardly be overestimated.

DISBUDDING CHRYSANTHEMUMS.

To the Editor of The Homestead:

Have you noticed how like weeds your fancy chrysanthemums become after a few years in the garden? There is a reason for it, and the chrysanthemum is not really to blame for it.

Those magnificent blooms we see so often are the result of years of careful growing and selection of the parent stock. They did not happen. A few years' neglect can undo all this and leave your choice chrysanthemum just where the propagator began his work of development years before, little better than a wayside weed.

In the first place well developed flowers cannot be grown in clumps. A single strong plant is required. In the second place a good flower cannot be grown in clusters on the same branch. Florists for their cut flower trade grow just one stalk to the plant and one flower to the stalk, so for each flower they have to grow a plant. They set these plans about eight inches apart in beds, pinch off all side branches, support the long, slender stalk, holding it straight up, and pinch out all but one bud. They try to keep the plant in a thrifty condition so the foliage will remain green and fresh until the flower is fully developed. This single stem method is not practical for pots and not necessary, for fine flowers can be grown and a couple of dozen produced on the one plant. I have produced them often. The finest flowers I ever saw were grown by an amateur and there were twenty-four of them on the plant, which had been grown to perfect tree form. This plant took the first prize when there were twenty or thirty plants exhibited by florists in the collection. The plants were put up at auction and sold to the highest bidder and this one brought nearly four dollars, which was a high price in that small country city of three thousand. Anybody can do as well, for the grower had not one facility that is not common to everyone.

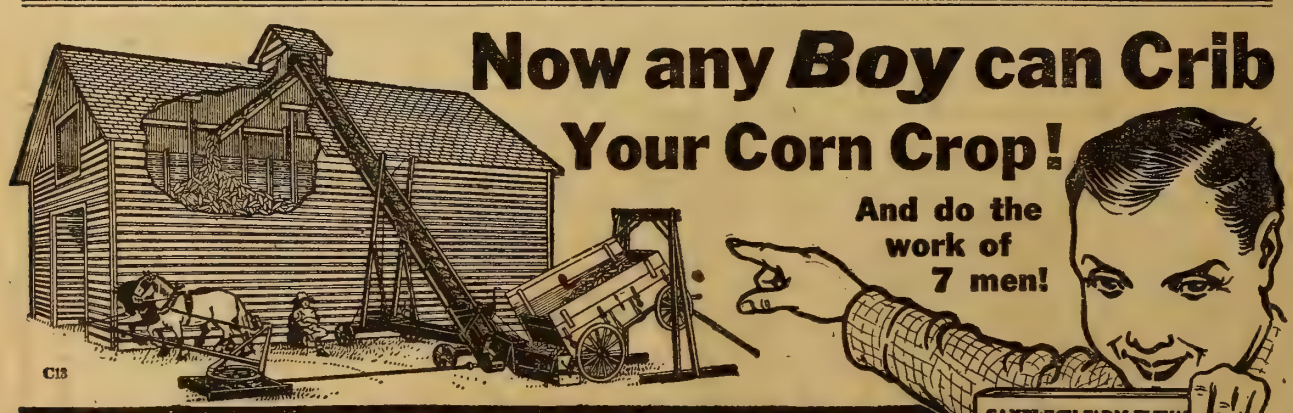
You cannot have these fine flowers without paying the price in care, but it is not a serious proposition at all. When branches begin to appear, pinch out all side shoots except those you wish to keep, and when they begin to bud rub out all but the central bud of the cluster. The first buds to appear will have a peculiar ridged appearance, and will be borne on rather long stems bare of foliage down to where they join the main stalk, which usually branches at its base. These buds should be pinched out, as they will seldom develop good flowers in the hands of an amateur. Cut them out right down where they join the main stem and select one of the side branches for your flower stem. This stem will have foliage to the tip, and a cluster of buds will appear. Do not try to remove the surpuls buds until you can do so without danger of destroying the center one, for this cluster of buds is all that will grow on this stem unless you get a side branch grow.

Your plants should be lifted and potted just as soon as the first buds show, so the bloom will not be checked in its development, as any check is likely to cause them to come partially single. August is about the right time to pot up, and the potting soil should be rich, for the chrysanthemum is a gross feeder. Water freely, and give a good dose of liquid manure about once a week.

Frost will ruin the tender petals of the better varieties, so you must protect them some if you leave them out doors. They should have all the light possible, and be kept where the wind cannot break off their brittle branches, for one broken branch will ruin the appearance of your plant if it has been grown symmetrical.

Chrysanthemums are so easy to propagate, grow so quickly and easily, have almost no insect enemies, have such magnificent flowers, such varied and delicate colors, and are so generally popular that every garden should have a collection. Get the incurve varieties for your main planting, for they will give you the most satisfaction under ordinary conditions, and are really the prettiest. The large, loose, reflex varieties have a ragged appearance, that, when well grown, is beautiful, but is unkempt unless grown almost to perfection. The little pompom varieties are becoming very popular, and they deserve it, for they are perfectly hardy, both plants and flowers standing some frost in the fall, and the roots seldom ever freezing out. They can be had in all colors, as double as flowers can be, and need no trimming or disbudding. No garden is complete without several clumps of these.

L. H. Cobb.



Sandwich Eternal Cypress Farm Elevator Rids Farm Life of Drudgery

Gone are the days when farmers looked forward to corn husking with **dread**—days when they hunted high and low for **help**—days of **back-breaking labor** shoveling corn into cribs—nights of soreness and pain. How **hard** to get men—how **costly** too! And how they grumbled at **scooping**—how they ate up the **profits** and wore out the women folks keeping them fed.

All This Changed by the Sandwich

A few years ago people would have scoffed at the idea that one boy could crib as much as 7 men.

But nowadays near 15,000 progressive corn raisers own Sandwich Farm Elevators and prove it! See this—

"My 11-year old boy runs my Sandwich Elevator as well as I can," writes John F. Heiken, Palmyra, Ill. "My children husk nearly all my corn."

Pays Its Way—Works Like Lightning!

The Sandwich comes with Swivel Spout or overhead roof conveyor. And it puts your corn—your small grain—into the farthermost corners—lickety split!

"Unloaded 50 bu. in 4 minutes," writes I. E. Orendorf, Heyworth, Ill. Others crib 40 bu. in 2½ minutes, dead easy.

C. H. Keller of Marshall, Minn. writes:—"**Had my crop picked 1c a bu. less on account of my Elevator.**" Yes, huskers work **cheaper** where the Sandwich does the cribbing.

No Leg Breaking Platform

The Sandwich Wagon-Jack is overhead. "Works to perfection," says A. J. Anderson, Boone, Iowa. You drive right under—with even the **tallest** load. And it dumps it in the hopper in a jiffy. Then hitch on **any power**—horse or engine—and your corn pours into the crib like magic.

Cypress Body Outlasts Steel!

We make less money using the Cypress, "The Wood Eternal," but we make more **friends** and more **sales**. This is why it is called the **Everlasting** Sandwich and is fast crowding cheap pine, poplar and all-steel Elevators from the market.

Warning—60 Carloads Oversold

Late orders for sixty carloads of Elevators we could not supply last fall. They came from farmers who **waited**. They had to shovel. But they couldn't blame **us**. For we warned them early as we are **warning you now**. Few dealers ever order **enough** ahead to supply you all. You'll have to do **your own** ordering and do it **now**.

Get This Free Book —See the Sandwich Too!

Write us today for our brand new Elevator Catalog and the name of our nearest dealer who'll show you the Sandwich Elevator.

This book pictures the Sandwich Elevator and tells all about it. It gives you the inside facts on Elevator Construction, the things to beware of—the points to insist on. And it gives you the measurements of Cribs and Graneries—you'll want these if you ever build. Address without fail

SANDWICH MFG. CO., 170 B St., Sandwich, Ill. Makers of Everlasting Sandwich Corn Shellers, Hay Presses, Loaders and Rakes, and Feed Mills and Gasoline Engines.

Farming for Fertility and Profit

By Geo. H. Dacy

ONE of the most successful breeders of Short-horns in Missouri is Mr. S. P. Emmons, of Mexico. For over thirty years this Missourian has been engaged in the Short-horn business and during that time he has bred and raised many excellent animals. Long Branch, a six hundred acre farm owned by Mr. Emmons, usually maintains a herd of from seventy-five to 100 pure bred Short-horns as well as fifty to 100 pure-bred and grade Duroc Jersey swine. Steers are also fed on this farm as a sideline operation, the animals being of value as fertility-replenishers as well as providing a means for the economical and profitable marketing of the home grown grain and roughage.

From the fertility standpoint alone the Emmons farm is a pacemaker for its locality. In consequence of the efficient conservation of the stable manure the crop yields and the productivity of the fields are constantly on the upgrade. As far as possible the live stock are managed under natural conditions on this farm. The cattle rough it on pasture the year round with the hogs as their running mates. By rotating the animals between the different pastures good grazing is provided for eight months in the year while the animals uniformly distribute their droppings over the various fields thereby increasing the resources of the soil in plant food. About 400 tons of additional manure are also annually hauled from the barn to the fields. Practically all the crops that are grown are fed directly on the farm, the resultant fertilizer being returned to the fields. Quite a bit of oil meal, bran, cottonseed meal and other concentrates are purchased and fed and in this way boughten fertility is brought to the farm.

Mr. Emmons is practicing a permanent system of agriculture that is making for the improvement of his land and his finances at the same time. Too many farmers neglect to play square with Mother Earth while they devote an excess of attention to increasing their bank accounts. However, the far-sighted countryman who has an eye to the future as well as the present improves his farm as he goes along. Increased capacity for bumper crop production spells a material advance in the acreage value of the land. Such results as those attained on the Emmons farm conclusively show that the progressive farmer who practices intelligent crop production and live stock husbandry can readily improve the fertility and productiveness of his soil without the use of costly, commercial fertilizers. "Home grow as much as possible of the grain and roughage that you feed on the farm," should be the motto on every up-to-the-minute farm of the twentieth century.

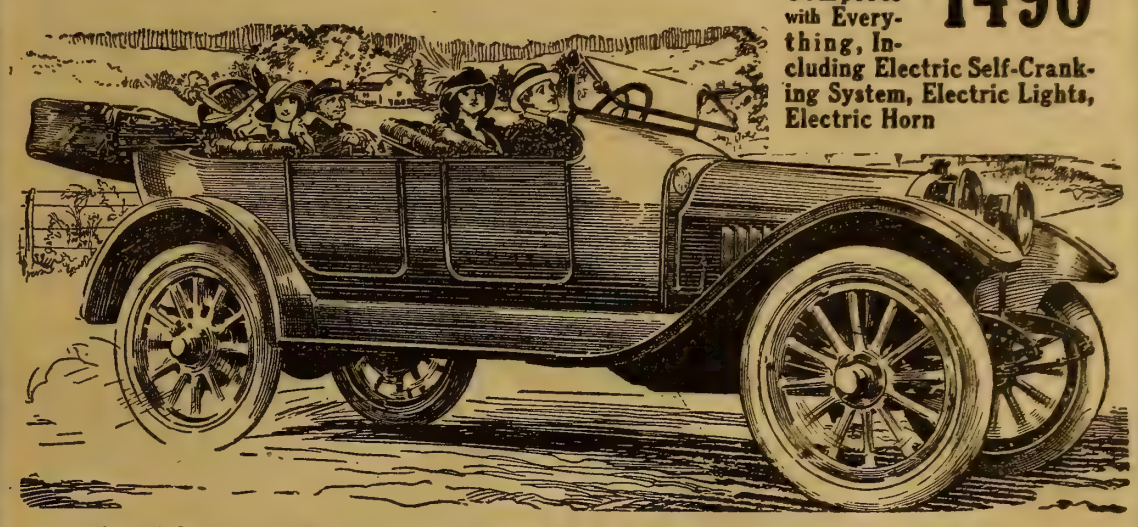
Approximately one-half of Long Branch Farm is in blue grass and timothy and clover meadow, while the rest of the acreage is sown to tilled crops. Annually 100 acres of corn are grown, from forty to fifty acres of clover, fifty acres of oats, from forty to fifty acres of wheat, fifteen acres of sorghum, fifteen acres of cowpeas, and smaller amounts of truck and garden crops for use on the home table. In the neighborhood of 300 tons of silage are fed each year, this succulent roughage being of inestimable value in the cattle rations. Mr. Emmons favors a combination silage composed of cowpeas and corn or sorghum. Such a mixture provides a near-balanced ration which contains about the correct proportion of fat, protein and carbohydrates. A combination of one part of cowpeas to three parts of corn or sorghum is best.

Where a uniform stand of corn is possible the preferable method is to plant the cowpeas directly in the row between the hills of corn so that the pea vines may grow up the corn stalks. Such a stand favors easy harvesting operations. Where a uniform stand is not secured difficulty is met with in harvesting the double crop, as the cowpea vines that grow along the ground tend to clog up the harvesting machine. Some farmers obtain good results by cropping the cowpeas or soy beans (which are also rich in protein and are suitable for such double cropping operations) in one field and the corn in another and then harvesting the two crops at the same time, so that they may be fed into the silage cutting machine in the correct proportion to form the desired mixture of ensilage. The great value of a combination ensilage for feeding beef cattle, dairy cows, sheep, horses and mules should win for this double crop an important position in the cropping campaign of every feeding farm, be it large or small. The cowpeas or soy beans, being leguminous crops, also materially improve the fertility of the fields on which they are grown. They can directly take atmospheric nitrogen and fix it in a readily available nitrate form for use by the plant roots in consequence of the activity of certain bacteria that operate in nodular growths on the roots of these legumes.

The Emmons Short-horns were originally of the Bates type. For a score of years Mr. Emmons bred and raised animals of this character, beginning operations in 1882 with a pure-bred foundation herd of one male and eight females. Some years ago when the Bates variety of Short-horns declined in popularity in the United States this breeder disposed of his herd and began a new herd of Scotch Short-horns of the Cruickshank-Marr-Duthie sort. In his breeding work Mr. Emmons has not been handicapped by a lack of working capital. It always takes time and money to develop a good breeding herd that will ultimately pay attractive dividends. The Long Branch herd of recent years has reached the stage of handsome annual returns. About fifty head of pure-bred breeding animals are sold each year, the cattle being sold as bull calves and heifers, as labor is minimized by disposing of the youngsters as yearlings. At the recent twenty-sixth annual sale forty calves were sold at an average price of $125 per animal. Although the prices were not high the stock, nevertheless, returned a tidy income to the farm.

The feature of particular interest on

(Concluded on page 13.)



Equipment Complete with Everything, Including Electric Self-Cranking System, Electric Lights, Electric Horn $1490

This Big, Handsome Car —1914's Startling Value

You Can Now Own a High Grade Car at a Modest Price. Because This Year We Have Gone Farther in Value-Giving Than Any Other Maker. Each Year Some Manufacturer Surprises the Automobile Industry with a Value That Outstrips All Others. It Is the Year's *STARTLING* Car. The Industry Calls It the "Season's Best Buy."

THAT honor for 1914 has been captured by the New Auburn "40." It is the automobile industry's masterpiece in value. Weigh this fact—here is a big, beautiful car of 120-inch wheel base, fully equipped with every comfort, convenience and feature, selling at the unprecedented price of $1490!

Is not this 1914's surprise in values? There is nothing high priced cars can give you that you do not get in your ownership of the remarkable

New Auburn "40"

Farmers are shrewd buyers. For that reason, this car will appeal to you as the "season's best buy."

Observe This Striking Beauty

Here is a car which your family will be truly proud to ride in.

Note, in this new car, the handsome sweep of the "stream" lines.

Note how they slope from the radiator to the back of the car. See the graceful sweep of the cowl, how it rakishly slants from the hood to the base of the windshield. Please observe also how the flush-sides and broad back of the car emphasize its general distinctiveness.

Left Drive Center Control

The left hand drive, center control, gives the convenience of alighting direct onto the curb. It is unnecessary to face oncoming cars in stepping into the street when alighting.

Electrically Self-Cranking Electric Lighted

Our electric self-cranking system *spins* the motor. That ends a motor car fault, that of revolving the motor too slowly to secure combustion.

Electric lights and electric horn, of course.

Fully Equipped No Extras to Buy

Note some of the other costly features we include in this big car:

Rain-Vision Ventilating Windshield
Electric Horn
36 x 4 Tires, Demountable Rims
Full Floating Rear Axle
Cowl Dash
Turkish Type Upholstery—Finest of Leathers
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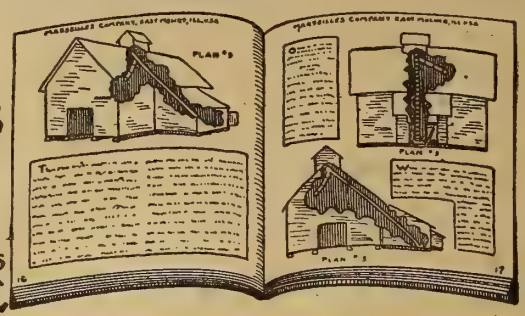
HOW TO BUILD CORN CRIBS

And Granaries, With Blue Print Plans And Cost Estimates **BOOK FREE**



Save the price of a John Deere—The Sagless Elevator by the way you build your corn cribs. This book tells you how to do it. It has ten blue print plans covering the construction of corn cribs and granaries, showing the style of elevator to use with each one. It contains cost estimates for the various cribs and granaries, and furnishes a source of valuable information for the farmer. The John Deere—The Sagless Elevator is also fully illustrated and described. You will profit by reading this book and you can get it free. See below "How to Get Book."

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Four turnbuckles on the truss rods, together with extra strong section connections make the John Deere a sagless elevator. Sections are triple-lapped, connected with fourteen bolts, banded with heavy iron bands and reinforced at the upper edge on the inside. That is one big advantage in having a John Deere—The Sagless Elevator.

You Get Many Other

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Moline, Illinois

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LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED

STRAW ON RENTED FARM—COLLECTION.

A Subscriber, Lime Springs, Iowa.—(1) A rented B's farm on shares, each to have one-half, except, horses and machinery, the straw to be stacked in the yard. This arrangement continued for five years and then B sold the farm to C, and A rented it for another year on the same terms. Then A bought C's half interest, and rented the farm for cash rent. The contract stating that the straw should be stacked in the yard. To whom does this straw rightfully belong? (2) A certain firm advertised a certain medicine to heal all sores and hoofs of horses, offering to send trial box with guarantee that horses would be benefited or money refunded. I sent for a box, and requested firm to also send box to my neighbor, and two boxes were sent to each of us. My neighbor did not try the stuff, but I did try one box, and it was not satisfactory, so I sent three boxes back. The transportation charge was $1.05 and the firm now writes my neighbor claiming $1.00 for the box not returned, and threatens to collect the amount by law. Can it do so?

Answer.—(1) As the farm was rented by A for cash rent, the straw belongs to him. (2) The firm cannot collect the dollar from your neighbor by law.

LICENSE TO BUILD DAM.

A Subscriber, Maquoketa, Iowa.—(1) Can a company or corporation lawfully dam any of the rivers of Iowa, without first obtaining a license or charter from the state? (2) Can a company dam a river in Iowa, without first compensating the contiguous landowners for damage to be done to their lands by reason of overflow, or interference with the drainage of the lands?

Answer.—(1) It cannot. The license is obtained from the district court, in the following manner: A person or company wishing to erect a dam across a river must file in the office of the clerk of the district court a petition therefor, describing the locality, and the dam to be erected, and the lands that will be overflowed or otherwise affected by such dam, designating the owners thereof as defendants in the petition. The clerk will then issue an order directing the sheriff to summon a jury to meet on the lands at a day fixed in such order, which order will be served on the landowners. On the day fixed the jury will be sworn and view the premises and appraise the damages to each defendant, and report same to sheriff, and report will be filed in clerk's office, and come up for hearing at next term of court, and if approved, a license will be issued upon the payment to defendants of the damages allowed. The second question is answered in the above.

SUIT FOR MONEY—AUTO TOP.

A Subscriber, Spencer, Iowa.—About a month ago I sent to an auto firm for an auto top, giving the exact dimensions of my auto. The firm sent me a top too small and without any side curtains, although it had advertised auto tops complete with side curtains, and also that goods sold which were not as represented could be returned to them for credit. I returned the top, advising the firm of the mistake, and asking it to send me another. The firm has not done so, and has not even acknowledged the receipt of my letter. Can I compel it to furnish the top or return my money?

Answer.—If the firm does not furnish you with a top such as you ordered, you can sue it for the money and recover judgment for the amount. Such suit would probably have to be brought where the firm does business.

ESTATE.—PARTITION PROCEEDINGS.

A Subscriber, Peterson, Iowa.—An estate came into the possession of mother and three children, and they cannot agree as to the settlement of it. (1) Can two of the heirs appoint an agent to care for it against the consent of the others? (2) Can two of the heirs have the property sold contrary to the wishes of the others who want it divided? (3) How can the matter be settled in court, and what would the costs amount to? (4) Would such costs be charged up to the estate?

Answer.—(1) All the heirs must agree in the appointment of an agent, in order to give him complete power to control and care for the property. (2) Any heir may apply to the district court by petition to have partition made of the property, and the court will make a decree for a division of the same, and appoint commissioners to divide it, and if they find division cannot be made in a just and equitable manner, the court will order a sale, and the proceeds divided, and the costs of such proceeding will be charged to the estate, each heir to pay according to his interest in it. This answers the third question.

FARMING ON SHARES—TENANT'S RIGHTS.

A Suscriber, Laporte City, Iowa.—B rented a farm from A on shares, agreeing to give as rent two-fifths of the corn, one-third of the small grain, and one-third of the hay in stack or threshed. On the land there is a piece of clover and timothy, the first crop now being in stack, and there are prospects of a second crop. (1) Is A entitled to one-third of this second crop for hay or seed, and has B the right to pasture it if not cut? (2) Who is entitled to the straw and stalks.

Answer.—(1) A is entitled to one-third of said second crop, and B has no right to pasture it, if not cut. (2) B is entitled to the straw and stalks.

DEEDS AND WILLS.

A Subscriber, Cedar Rapids, Iowa.—In answer to an Iowa subscriber, in the Homestead, of January 23, 1913, you advise the making of a will in preference to a deed which is not to be delivered or recorded till after the death of the grantor. Will you please explain why you advise this course?

Answer.—Recording is not essential to the validity of a deed, as between the parties themselves, but delivery is always necessary. Delivery of a deed after the death of a grantor is not sufficient to vest title in the grantee. It is true, however, that a deed may be made to a grantee, and the deed delivered to a third person to be held by him till the death of the grantor, and then delivered to the grantee, and it will be valid, but the delivery of the deed by the grantor to such third person must be made without any power in the grantor to withdraw it; that is, such delivery must be irrevocable by the grantor. Because the principles of law applicable to delivery are not well understood by people generally, it is perhaps safer for persons not learned in the law to make a will, rather than a deed to take effect at death.

HOMESTEAD.—RESIDENCE.

Mr. P. E. Fitzgerald, Kearney, Neb.—(1) When a single man enters a homestead claim in Nebraska, how often must he sleep on the claim, and how long at a time? (2) What improvements must he make on the claim? (3) Could a person who lacks three months of being twenty-one years old take up a homestead without danger of losing it when he was ready to prove up?

Answer.—(1) The homestead law does not provide for a homesteader sleeping on his claim at all. It provides that he shall reside on it, and cultivate it for three years in good faith, and not merely sleep there occasionally. He is required to make the claim his home until he proves up. If he will notify the register of the land office of the beginning of absence from the claim, the law allows him to be absent therefrom not exceeding five months each year. (2) On an ordinary homstead claim, he must prove that he has resided on and cultivated it in a reasonable manner to the satisfaction of the officers of the land office. (3) He cannot. The law requires a person to be twenty-one years old, before entering a homestead claim.

TERMS OF STALLION SERVICE.

A Subscriber, Cedar Falls, Iowa.—A bred a mare to B's stallion, and B guaranteed the colt to be foaled alive, and to stand and suck or no pay. Before foaling time, A sold the mare to C, and the colt was foaled dead. When C bought the mare he promised A to pay the stallion service fee, but as the colt was dead, he refused to do so. Can B recover the service fee by law, from either A or C?

Answer.—He cannot. C is not liable to B for the service fee, because there was never any contract between C and B about the breeding. If B should sue A for the fee, B would have to prove that the colt was born alive, and stood and sucked, and this he could not do.

Ask your neighbor to subscribe for The Homestead.

The Saddle Horse and His Training

The Ideal Saddle Horse—His Breeding and Typical Conformation—The Educational Methods Employed in His Training.

HUMANITY has shown no instance of appreciation of animal friends greater than that enjoyed by the well-trained saddle horse. In their associations with man no other animals have shown a capacity to enter into the same harmony of action, quick appreciation of intent, and intelligent interpretation of guiding hint as the horse, and none has acknowledged man's mastership with the same eager willingness.

The saddle horse stands as the highest example of equine intelligence. His capacity for absorbing knowledge is extraordinary, and his retention of lessons taught him borders closely upon the powers of human intelligence. The saddle horse is an animal of American production, originally the outgrowth of pioneer conditions, and later developed and perfected to a high degree because of the appreciation of those to whom equestrianism was a joy and health-giving exercise. The means of earlier American transportation, before the introduction of steam, were confined to the stage coach and the saddle horse. Naturally those who traveled much took pains to select as saddle animals those horses which were best adapted to that work. The demand was for a horse of a type radically different from that of the draft horse, and having little in common with the conformation of the coach horse of that day. So the selections came largely from thoroughbreds that showed a tendency toward easy gait and nimbleness of foot. With this as a beginning the growth of the saddle horse into a distinct class was dependent upon processes of selection and elimination. With neither combined effort or common type in view, it was necessarily a matter of slow progress and it was not until 1891 that a final effort succeeded in the formation of an organization, the object of which was to formulate ideals and attempt to perpetuate them as a distinct breed. The foundation blood recognized by that organization was in the majority thoroughbred, with some considerable dash of Morgan, and some of unknown ancestry. Continued use of meritorious line of breeding has resulted in the establishment of strains of more firmly fixed characteristics and greater prepotency and productiveness of the traits that go to make the ideal saddle horse. It is conceded that the most influential factor in the formation of saddle horse requirements was the stallion Denmark, a son of an imported thoroughbred. Denmark was in service in Kentucky, and the more notable saddle horses trace to that origin. The states of Kentucky, Missouri, Virginia and Tennessee lead in the production of these horses, and with other southern states constitute the field in which the saddler enjoys his greatest popularity.

A HIGH TYPE OF AMERICAN SADDLE HORSE.

The principal feature of the saddle-horse requirement is that he be a "good looker"—have well-balanced and symmetrical proportions, and attractive action. In the make-up of the saddler, size is given no official consideration; that is the rules of the American Saddle Horse Breeders' Association do not set any standard on that point. However the popular demand is for a horse of about fifteen hands two inches in height and weighing from 950 to 1,050 pounds. As a general description of the saddler it may be said that he should have a short, strong back, long and sloping shoulders, strong and springy pasterns, a round, well-turned body, a good head with keen eye showing intelligence and life, a good foot and high carriage of head and arched neck.

More than all the points of conformation is the consideration given to gaits. There is the three-gaited horse and the five-gaited one. The three-gaited horse has the natural gaits—walk, trot and gallop. The five-gaited horse has in addition two artificial gaits—running walk and rack. The running walk is an easy one for the rider, while the rack is a very showy gait.

The advancement in the saddle horse has been largely in the direction of securing an easy-riding animal.

The five-gaited horse is the highest attainment, although what is known as "high school" training gives additional value. This training includes kneeling, lying down, and kindred tricks for show-ring entertainment. A scale of 100 points established for judging saddle horses is divided as follows: Conformation twenty-five points, style fifteen points, action ten points, walk ten points, trot ten points, canter (or gallop) ten points, rack (or single-foot) ten points, slow gaits (running walk, stepping pace or fox trot) ten points.

The training of the horse is a matter of patient effort. No two horses respond in the same manner to the same treatment. There is no recognized manual of instruction. The individual ideas of each trainer serve as his own guide. While kindness and patience are the main elements in training, it must be admitted that some of the methods employed are at times a close approach to refined cruelty.

At present there seems to be a growing interest in and demand for the gaited saddler. Some large establishments are devoted to their production and training. While the partiality for horses of pure breeding is strong, some excellent saddlers are the result of crossing the saddler sire with trotting or pacing-bred dams.

The illustrations herewith presented are made from photographs taken on the farm of Hamilton Brothers, Keokuk county, Iowa. These gentlemen became interested in the saddle horse about fifteen years ago, and have gradually increased that interest until today their concern is the largest of the character in that state. The breeding of saddle horses may be looked upon rather as a matter of pride than profit. The original cost of the horse is no small matter, as it involves a knowledge of blood lines and crosses that are not employed in any other branch of horse growing. Added to this is the expense of training and constant practice up to the time of sale. Some horses, once trained, do not forget their education. Others do, so that all are the better of constant practice. Prices of gaited saddlers vary with the personal taste of the buyer. They may be said to range from $250 to $2,000.

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HINTS-SUGGESTIONS-DEVICES

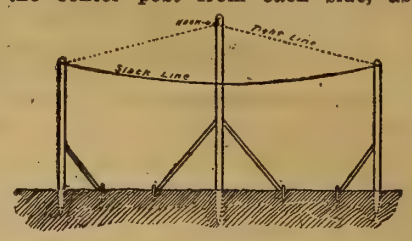
AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

A HELP IN HANGING OUT CLOTHES.

The accompanying illustration shows how the housewife may hang out her clothes on washday easier, and at the same time guard against the line sagging down and dragging the clean clothes in the dirt.

Set three posts for the clothesline, leaving the center one, two or three feet longer than the end posts. Brace the center post from each side, as

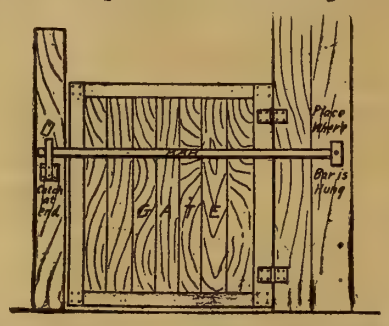


there is a double strain on it. Fasten the line securely at each end, but leave it free at the center post.

This leaves the line at a convenient height for hanging out the clothes, when one can take a forked stick or a light board with a notch in the end, and lift both clothes and line to the top of the center post, as shown by dotted line. A screw hook, obtainable at any hardware store, is best for hanging the line on; although a large nail, or a sharp notch in the post, will serve the same purpose.

A Door or Gate Fastener.

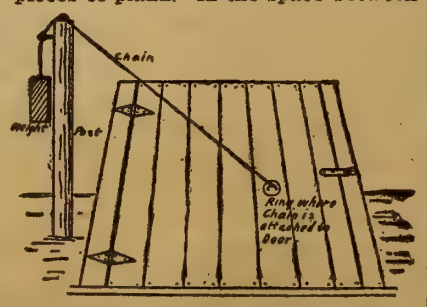
The bar shown in the accompanying illustration is made from 2x4 plank. A hole is bored in one end—after the plank is cut the desired length—and a bolt is put through this hole and then through the post or planking from which the gate or door is swung. To



hold the bar on the other side a catch must be made. Nail on a piece of strong board which will extend upwards six inches. The bar drops in this and is securely held. This fastener will hold almost any kind of live stock.

A Cellar Door Hanger.

To make cellar doors open easier a post should be very firmly located near the side where the door is attached to the frame with hinges. On top (on either side) of this post nail two short pieces of plank. In the space between



the planks a pulley wheel should be suspended on a strong bolt. Attach a chain to the cellar door with a ring and staple, running this over the pulley wheel and at the other end attach a weight which is just heavy enough to balance the door. The door can now be opened and shut with ease.

AN EXCELLENT CORN BOOK.

Under the title, "The Corn Crops," an up-to-date volume has just come from the pen of Prof. E. G. Montgomery, one of the most painstaking and sensible agronomists in the United States. A comprehensive idea of the contents of this volume may be obtained from a perusal of the following chapter subjects: Production and Distribution of Indian Corn; Origin and Classification; Description of the Corn Plant; Physiology of Corn; Relation of Climatic Factors to Growth; Relation of Soils to Growth; Early Culture; Improvement of Varieties; Methods of Laying out a Breeding Plat; Results with Hybridization; Acclimation and Yield; Cropping System in Relation to Maintaining the Yield of Corn; Organic Matter; Mineral Matter; Regulating the Water Supply; Preparation and Planting; The Principles of Interculture; Animal and Insect Enemies; Harvesting the Corn Crop; Uses of Corn; Show Corn; Sweet Corn or Sugar Corn; The Sorghum Plant; The Saccharine Sorghums; The Nonsaccharine Sorghums; Cultural Methods for Sorghums; Utilizing the Sorghum Crop; Sorghum for Syrup-making; Broom corn.

This paper feels that the volume under consideration cannot be too strongly endorsed. It deals with the most important crop grown in the United States and the subject from the first to last is discussed in a manner to fit the needs of the practical farmer as well as the student. The volume sells at $1.60 and arrangements have been made by which this paper can furnish it to its readers at the regular publisher's price.

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STEEL GATES FREE CATALOG John L. Powers, Indianola, Iowa

FARMING FOR FERTILITY AND PROFIT.

(Continued from page 9.)

this "show-me" state farm hinges around the fact that a home market that pays top prices is created right on the farm through the medium of feeding all the crops and hay to the beeves, porkers and breeding animals and subsequently selling these more valuable concentrated products on the market. Dual utility is gained from the crops—they are marketed at the reigning prices, as the animals are charged with all the food which they consume while added fertility accrues to the farm through the home feeding of these crops in addition to purchased concentrates. Wheat is sold as a cash crop, a portion of the resultant funds being used to purchase bran and oil meal. In this exchange the farm again gains in fertility.

A portion of the sorghum crop is cut and shocked in the field. Then it is fed during the early winter to the cattle instead of hay. It must not be left in the shock too long, as it tends to heat and ferment. To a certain extent Mr. Emmons is an advocate of the "survival of the fittest" as applied to the raising of Short-horn cattle. He is thoroughly opposed to pampering the animals by overfeeding or excessive housing. He says that the cattle should run out-of-doors all the time and that only the cows and their calves should be housed during bad weather. "Liberal feeding, the opportunity to range and rustle on pasture and meadow, access to fresh water, salt and an open-end shed that is well bedded with clean straw spell contentment and happiness to the rugged Short-horns whose forebears formerly roamed the hills of Scotland," said Mr. Emmons to the writer during a recent conversation. "Cattle on pasture are easily kept up to appetite while their prolificacy and fecundity are immeasurably benefited by the healthy exercise that they get in rustling a portion of their food. Dams handled in this way bear robust, vigorous calves that are economical feeders and rapid maturers."

The winter feed of the Emmons Short-horns comprises combination silage and clover and timothy hay fed in troughs and racks out in the yards. The cows and calves receive a similar ration in the barn. The calves are given a little supplementary oil meal and crushed corn. Supplementary grain is also supplied to the cows or the pastured stock as they indicate that they need it. By running the entire ear of corn through the cutting box and then sprinkling oil meal over the resultant corn-and-cob meal Mr. Emmons provides a delicacy that is highly relished by the cattle, young and old. Oats are also judiciously used in the menu, corn and oats being the basis of the most valuable grain ration which is fed with silage and clover hay for roughage.

Formerly Mr. Emmons was an extensive feeder of steers. He produced beef by the grass-corn-cotton-seed formula. He liked grade two or three-year-olds that weighed about 1,000 pounds for his feeding operations. Ordinarily he made a practice of buying the feeders in September so that he could rough them on blue grass and cornstalk fields until the latter part of January. In this way he reduced care and labor to a minimum, the animals rustling all of their feed. During this period a good steer would take on about one hundred and fifty pounds of gain. Then the beeves would be moved to the dry lot where as soon as possible they would be placed on a full feed of corn and cottonseed meal. As early as blue grass was available in the spring the near-fat steers were turned out on grass, receiving supplementary snapped corn.

Both in the feed lot and on pasturage swine in the proportion of one and one-half hogs per steer followed the beeves in order to utilize the waste. The pork produced by this system was practically clear profit as no extra feed and little care or labor were involved in the fattening of the porkers. About the latter part of July or the fore part of August the beeves would be in full market bloom. The steers would be marketed right off the grass. An average steer would put on about 400 pounds of gain in five months, according to this system of management, eighty pounds of gain per month being easily possible where the animals were liberally fed on corn, cottonseed, clover and blue grass. Twenty years ago Mr. Emmons used to be able to sell a fat steer for more than double what he paid for the animal. Under such conditions his net profit per animal ranged from $25 to $40. Where intelligently practiced, beef feeding affords one of the most profitable and easiest lines of business. It is less confining than the dairy business, while it yields just as good returns. The successful feeder must be able to select the right type of cattle that will make economical and rapid gains in the dry lot; he must buy right and sell right; he must raise the majority of what he feeds and he must keep in constant touch with market requirements and the condition of the trade.

The swine population on the Emmons farm numbers about 100 hogs. Two crops of pigs a year are raised, the average sow raising fifteen pigs a year. For several years seven sows in the herd have raised from 100 to 120 pigs per year. The swine are handled under the colony system, the same idea being followed, as in the case of the cattle, to run the hogs out-of-doors as much as possible. The sows are vigorous and active under this method and farrow healthy, strong pigs. During a recent year Mr. Emmons topped the St. Louis market with a car load of fat hogs that sold for $1,500. Under his direction a tenant raised and fattened seventy-eight head of swine that brought ten cents a pound on the market or a gross sum of $2,200. A net profit of $1,000 resulted from the fattening of this top quality lot of hogs.

The Long Branch Farm is of rolling topography. The land is ideal for grazing purposes and is worth about $60 an acre. The soil is a fertile loam that is underlaid with clay which holds barn-yard manure so that its beneficial effects are felt for a long time. About one-half of the farm is composed of virgin blue grass that has never been broken. In consequence of the liberal use of manure and the feeding of sufficient live stock an increase of 30 per cent in the crop yields has resulted during the last decade. The blue grass re-seeds itself and is a prolific provider of excellent grazing for cattle and hogs.

The farm buildings at Long Branch are designed for service and utility for twelve months in the year. They are plain and simple yet an air of homeliness and neatness pervades the farmstead that is rarely met with on many more pretentious places. The buildings are kept in good repair and paint while no such eye-sores as dilapidated fences and neglected barn-yards are apparent. An efficient farm shop and machinery shed is a valuable part of the equipment while the barns are comfortable and commodious. Two silos provide adequate storage for the succulent ensilage. Like his farm Mr. Emmons is a man typed for service. He is a practical farmer who thoroughly appreciates the value of science as applied to farm conditions. He is a stanch advocate of the agricultural college and believes that a scientific agricultural training is one of the most essential needs of every farm boy. Mr. Emmons favors the work of the college in its endeavors to help the farmers to grow better crops, to raise better live stock, to minimize loss and to increase the profits of their operations. During farmers' week Mr. Emmons is always a visitor to the state college where annually he learns something new about farms and farming.

A method of producing potassium fertilizer by treating in the electric furnace feldspar or other minerals containing potassium, with a suitable proportion of carbon and iron, has been invented by a Swedish electrochemist.

King Wonder, a son of old A Wonder and out of the great sow, Mammoth Giantess, at the head of the J. M. Sheehan herd, Stuart, Iowa. See field note on page 31.

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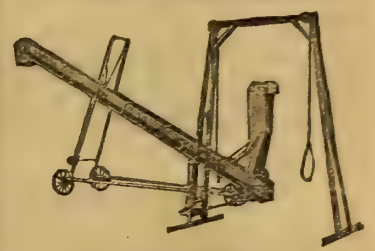

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You would choose nails which hold and drive best, mar the hoof least, and enable the horse to work most comfortably and efficiently.

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It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

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Save $50 to $100

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It is plain common sense for you to save money by dealing *direct with the mines.* You owe it to yourself to find out the facts and prices—to learn more about Tecumseh Coal. All we ask is the opportunity to quote you prices—to prove in actual figures the splendid saving you can make.

This should interest you whether or not you intend to buy a full car of coal.

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If you cannot use a whole car—25 to 40 tons—you can easily arrange with your neighbors to divide up the shipment and still make this handsome saving on your winter's coal.

This money-saving plan is too important to be set aside. The amount of waste money you have been paying your dealer belongs in your own pocket. Keep it there. Right now take the first step. It obligates you to nothing. Just fill out and mail us the coupon in this advertisement. The prices we quote will positively surprise you. But do it now before the matter slips your mind. Address

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Sioux City Interstate Fair

EXCELLENT weather prevailed throughout the entire week of the Interstate live stock show held at Sioux City last week. As a consequence there was an unusually large attendance and the management had nothing to complain of on that score. Heretofore the horse racing has drawn the large share of the crowd. This year the racing was more or less in the background and the general entertainments on the ground were patronized to the limit. It was a better humored attendance than ever before. As usual the city provided an evening entertainment under the name of the "Sioux Trail" on the streets, and it was to the credit of Sioux City people that it lacked the viciousness which has characterized it in the past.

As a fair there was little, either in extent or interest, aside from the live stock show. That was great and brought together a splendid collection of high-class animals of most of the different breeds. In this respect it outclassed several of the state fairs. Hogs and beef cattle made up the aggregation. This was in keeping with the territory represented, as the products of the country adjacent to Sioux City are and must be beef and pork.

The department of agricultural products was an inglorious fizzle. Some of the shelves were bare. Others contained a half-hearted effort that failed to be representative even of an average farm. There was a limited showing of pretty good corn, a liberal collection of potatoes, and an abundant collection of apples. One of the foreneeded. It must be a forceful factor in promoting health and a knowledge of bodily perfections. It promises to be valuable as a means of giving proper attention to the care of minor defects, which, if rightly attended to, may be eradicated, or so reduced as to become unnoticeable. It is a good work.

BEEF CATTLE

Confidence in the return of prosperous conditions in the cattle business was more clearly indicated by the exhibit at this shown than at any fair of the season held up to this time. Shorthorns in particular blossomed out in such numbers as to crowd the capacity of the show to take care of them. The leading show herds were present, as well as some newer candidates for show honors that have not before entered the arena. Nearly all classes were well filled, and some of them showed a real old-time excellence of both numbers and quality. The breed really dominated the show in the interest manifested by the public. The pavilion was comfortably filled during the show. The herds of Herefords and Aberdeen Angus were those that have been making the state fair circuit. Galloways were not represented at all. Dairy breeds were in the minority as to numbers, the Holstein-Friesians alone being represented.

SHORT-HORNS.

The exhibitors: L. C. Oloff, Ireton, Iowa; Farmer Farm, Farmington, Minn.; C. A. Saunders & Sons, Manilla, Iowa; McMillan & Sons, Rock Rapids, Iowa; Andrew E. Lee, Centerville, S. D.; F. E. Jackson, Hurley, South Dakota; Geo. H. Burge, Mt. Vernon, Iowa; F. H. Ehlers, Tama, Iowa; W. W. Brown, Amenia, N. D.; F. W. Harding, Waukesha, Wis. Judge—E. R. Silliman, Colo, Iowa. Awards:

Bull 3 Years or Over (4 shown)—1st Harding on Village Denmark; 2d Farmer Farm on Daybreak; 3d McMillan & Sons on Fair Knight 2d; 4th Lee on Grand Archer.

Bull 2 Years and Under 3 (5 shown)—1st Harding on Gloster Fashion; 2d Burge on Silver Sultan; 3d Jackson on Pride of Avon; 4th Brown on Village Sultan; 5th Lee on Lord Lavender.

Senior Yearling Bull (3 shown)—1st Farmer Farm on Corner Stone; 2d Oloff on Pride of Elm Lawn; 3d Lee on Bannock Button.

Junior Yearling Bull (4 shown)—1st Burge on Crusader; 2d McMillan on March Premier; 3d Lee on Victoria's King; 4th Lee on Marchioness King.

Senior Bull Calf (6 shown)—1st Saunders & Sons on Cumberland Type; 2d Saunders & Sons on Cumberland Again; 3d Ehler on Baron's Butterfly; 4th Brown on Lochinvar; 5th Oloff on Elm Lawn Boy; 6th Burge on Cromwell.

Junior Bull Calf (6 shown)—1st Farmer Farm on Lavender Duke; 2d Saunders & Sons on Marcus Cumberland; 3d Burge on Victory of Wayside; 4th Harding on Clipper Crest; 5th Jackson on Gloster Dale; 6th McMillan & Sons on Fair Lad.

Cow 3 Years or Over (4 shown)—1st Brown on Irene Avalon; 2d Lee on Lady Adelaide; 3d Ehlers on Royal Queen; 4th Lee on Lady Claverburn.

Cow 2 Years and Under 3 (6 shown)—1st Farmer Farm on Pleasant Mildred; 2d Harding on Maxwalton Missie; 3d Brown on Christobel; 4th McMillan & Sons on Mayflower 6th; 5th Ehlers on Orange Choice; 6th Farmer Farm on Evening Star.

Senior Yearling Heifer (8 shown)—1st Farmer Farm on Sittyton Anna; 2d Harding on Duchess Gloster; 3d Saunders & Sons on 31st Duchess of Gloster; 4th Farmer Farm on Maria; 5th Lee on Sissie Loftus; 6th Ehlers on Village Victoria.

Junior Yearling Heifer (10 shown)—

LINING UP AROUND THE TRACK.

eign advertising exhibits, however, outranked the whole show in magnitude and variety of grains, grasses and vegetables. The fruit show indicated that apple growers have not yet turned their attention to the growing of valuable commercial varieties, but that they are still following the family orchard plan.

In the poultry division there was an evident lack of interest. Some excellent birds were shown, but the competition lacked the vim that goes with a real poultry show. Scarcely half the pen space was utilized, and even a portion of that used was occupied by dogs that were offered for sale. A separate and disconnected display of pheasants and game birds with which it is proposed to stock the country attracted greater attention.

The popular baby show had its innings here as elsewhere, and attracted the maximum of attention. There were numerous entries in the competitions for better babies, but up to the time of closing of the show the awards had not been announced. This exhibit had perhaps a greater educational value than was possessed by any other on the grounds. It has the effect of awakening interest in the care of children that has been badly

1st Farmer Farm on Lancaster Duchess 7th; 2d Harding on Village Flower 7th; 3d Brown on Laurene; 4th Saunders & Sons on Bonnie Cumberland 4th; 5th Jackson; 6th Harding on Archer's Fashion.

Senior Heifer Calf (13 shown)—1st Harding on Augustus 112th; 2d Burge on Silver Mystic; 3d Farmer Farm on Village Blythesome; 4th Brown on Bon Dora; 5th Jackson; 6th Oloff on Lady of Elm Lawn.

Junior Heifer Calf (10 shown)—1st Harding on Fond Fame; 2d Harding on Village Flora 3d; 3d Brown on Laurel; 4th Oloff on Evelyn of Elm Lawn; 5th Jackson on Village Queen 4th; 6th McMillan & Sons on Beauty.

Senior Champion Bull—Harding on Gloster Fashion.

Junior Champion Bull—Saunders & Sons on Cumberland Type.

Grand Champion Bull—Saunders & Sons on Cumberland Type.

Senior Champion Cow—Farmer Farm on Pleasant Mildred.

Junior Champion Cow—Farmer Farm on Lancaster Duchess 7th.

Grand Champion Cow—Farmer Farm on Lancaster Duchess 7th.

Aged Herd (5 shown)—1st Harding on herd headed by Anoka Fashion; 2d Farmer Farm on herd headed by Daybreak; 3d Brown on herd headed by Village Sultan; 4th McMillan & Sons on herd headed by Fair Knight 2d.

Young Herd (5 shown)—1st Saunders & Sons on herd headed by Cumberland Type; 2d Farmer Farm on herd headed by Corner Stone; 3d Harding on herd headed by Fond Lavender; 4th Ehlers on herd headed by Baron's Butterfly.

Calf Herd (7 shown)—1st Saunders & Sons on herd headed by Cumberland Type; 2d Harding on herd headed by Fond Lavender; 3d Burge on herd headed by Cromwell; 4th Brown on herd headed by Lochinvar.

Get of Sire (7 shown)—1st Saunders & Sons on the get of Cumberland's Last; 2d Harding on the get of Villager; 3d Farmer Farm on the get of Superb; 4th Brown on the get of Village Knight.

Produce of Cow (6 shown)—1st Farmer Farm on the produce of Lancaster Duchess 3d; 2d Harding on the produce of Flower Girl; 3d Brown on the produce of Laura Marshall; 4th Ehlers on the produce of Claverburn Queen.

HEREFORDS.

Exhibitors: O. Harris & Sons, Harris, Mo.; Jesse Engle & Son, Sheridan, Mo.; Cassaday & Son, Whiting, Ia.; Cyrus A. Tow, Norway, Ia. Judge—Prof. W. H. Pew, Ames, Iowa. Awards:

Bull 3 Years or Over (2 shown)—1st Harris & Sons on Prince Perfection; 2d Tow on Byron Fairfax.

Bull 2 Years and Under 3 (none shown).

Senior Yearling Bull (3 shown)—1st Harris & Sons on Repeater 7th; 2d Harris & Sons on Gay Lad 9th; 3d Cassaday & Son on Golden Lad.

Junior Yearling Bull (5 shown)—1st Tow on Fairview Prince; 2d Harris & Sons on Gay Lad 12th; 3d Tow on Standard 6th; 4th Engle & Son on Beau Blanchard Jr.; 5th Cassaday & Son.

Senior Bull Calf (5 shown)—1st Harris & Sons on Gay Lad 16th; 2d Harris & Sons on Repeater 9th; 3d Tow on Standard 4th; 4th Tow on Distinction 2d; 5th Harris & Sons on Gay Lad 16th.

Junior Bull Calf (5 shown)—1st Tow on Distinction 4th; 2d Harris & Sons on Gay Lad 23d; 3d Tow on Disturber Jr.; 5th Engle & Son on Beau Blanchard 3d.

Cow 3 Years or Over (2 shown)—1st Tow on Disturber's Lassie 5th; 2d Tow on Miss Bray.

Cow 2 Years and Under 3 (4 shown)—1st Harris & Sons on Harris Princess 215; 2d Tow on Defender's Last; 3d Harris & Sons on Disturber's Lassie 4th; 4th Harris & Sons on Princess Repeater 3d.

Senior Yearling Heifer (5 shown)—1st Tow on Disturber's Lassie 5th; 2d Harris & Sons on Miss Repeater 11th; 3d Tow on Disturber's Lassie 6th; 4th Engle & Son on Graceful 5th; 5th Engle & Son on Ruth Blanchard.

Junior Yearling Heifer (4 shown)—1st Harris & Sons on Miss Gay Lad 7th; 2d Tow on Disturber's Lassie 7th; 3d Tow on Disturber's Lassie 8th; 4th Cassaday & Son on Donna Anna.

Senior Heifer Calf (6 shown)—1st Harris & Sons on Miss Gay Lad 15th; 2d Harris & Sons on Miss Gay Lad 16th; 3d Tow on Lady Stannard; 4th Tow on Disturber's Lassie 9th; 5th Cassaday & Son on Flora 5th; 6th Cassaday & Son on Lassie 6th.

Junior Heifer Calf (4 shown)—1st Harris & Sons on Miss Perfection 6th; 2d Engle & Son on Lady Excellence; 3d Engle & Son on Sunny Susy; 4th Cassaday & Son on Golden Lassie.

Senior Champion Bull—Harris & Sons on Prince Perfection.

Junior Champion Bull—Harris & Sons on Repeater 7th.

Grand Champion Bull—Harris & Sons on Repeater 7th.

Senior Champion Cow—Harris & Sons on Harris Princess 215.

Junior Champion Cow—Harris & Sons on Miss Repeater 11th.

Grand Champion Cow—Harris & Sons on Miss Repeater 11th.

Aged Herd (2 shown)—1st Harris & Sons on herd headed by Prince Perfection; 2d Tow on herd headed by Byron Fairfax.

Young Herd (4 shown)—1st Harris & Sons on herd headed by Repeater 7th; 2d Tow on herd headed by Fairview Prince; 3d Engle & Son on herd headed by Beau Blanchard 2d; 4th Casaday & Son.

Calf Herd (3 shown)—1st Tow on herd headed by Standard 15th; 2d Harris & Sons on herd headed by Gay Lad 15th; 3d Engle & Son on herd headed by Carlos Blanchard.

Get of Sire (4 shown)—1st Harris & Sons on the get of Repeater; 2d Tow on the get of Disturber; 3d Engle & Son on the get of Beau Blanchard; 4th Cassaday & Son on the get of Don Arthur.

Produce of Cow (3 shown)—1st Harris & Sons on the produce of Harris Princess 31st; 2d Harris & Sons on the produce of Pretty Lassie; 3d; Cassaday & Son on the produce of Lily Morrison.

Aged Herd (2 shown)—1st Gibbons & Sons; 2d Klaus Bros.

Young Herd (4 shown)—1st Hazlett; 2d Curtice; 3d Gibbons & Sons; 4th Jones Bros.

Calf Herd (4 shown)—1st Curtice; 2d Hazlett; 3d Gibbons & Sons.

ABERDEEN ANGUS.

Exhibitors: Chas. Escher, Botna, Iowa; R. M. Anderson & Son, Newell, Iowa; W. A. McHenry, Denison, Iowa; C. D. & E. F. Caldwell, Burlington Junction, Mo. Judge—J. C. Martin, Churdan, Iowa.

Bull 3 Years and Under (1 shown)—1st McHenry on Erwin C.

Bull 2 Years and Under 3 (3 shown)—1st Escher on Prince Felzer; 2d Caldwell on Kihoga; 3d Anderson & Son on Enus 3d.

Senior Yearling Bull (3 shown)—1st Caldwell on Ebony of A. 3d; 2d Anderson & Son on Provo 2d; 3d McHenry on Quality Prince 2d.

Junior Yearling Bull (3 shown)—1st McHenry on Enright; 2d Caldwell on Quartermaster Ito; 3d Anderson & Son on Enus 4th.

Senior Bull Calf (6 shown)—1st Caldwell on Black Cap Star; 2d Anderson & Son on Prince of Elchies; 3d Escher on King Earl; 4th McHenry on Brewster of Denison; 5th Caldwell on Pisgah; 6th Caldwell on Ebony of A. 5th.

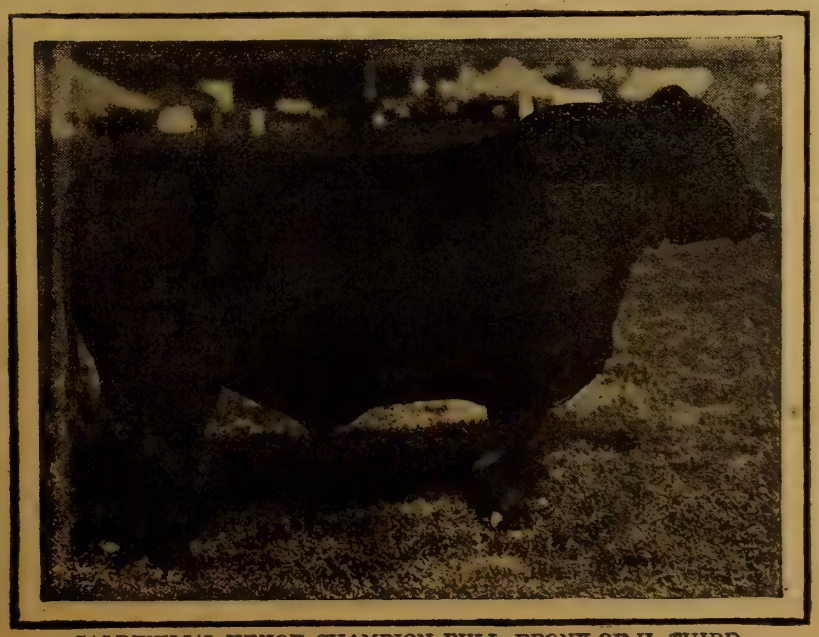
Junior Bull Calf (2 shown)—1st Anderson & Son; 2d Anderson & Son.

Cow 3 Years or Over (6 shown)—1st McHenry on Black Cap McHenry 88th; 2d Anderson & Son on Pride of Blackstone 3d; 3d Escher on Blackbird Perfection 3d; 4th Caldwell on Pride Petite; 5th Caldwell on Irene Mother Johnson 5th; 6th Anderson & Son on Jilt 56th.

Cow 2 Years and Under 3 (5 shown)—1st McHenry on Pride McHenty 100th; 2d Anderson & Son on Key of Indianapolis; 3d Caldwell on Black Bird Chloe; 4th McHenry on Coquette McHenry 37th; 5th Caldwell on Queen Mother Johnson 8th.

Senior Yearling Heifer (5 shown)—1st McHenry on Pride McHenry 109; 2d Caldwell on Erito C.; 3d Escher on Ebba; 4th McHenry on Pride McHenry 108th; 5th Caldwell on Esthoria 6th.

Junior Yearling Heifer (4 shown)—1st McHenry on Pride McHenry 112th; 2d Anderson & Son on Jilt 62d; 3d Esch-



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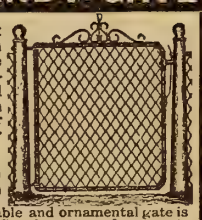

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The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

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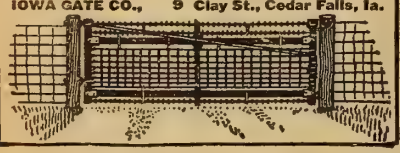

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er on Pride Etta 2d; 4th Anderson on Pride of Newell 3d.

Senior Heifer Calf (7 shown)—1st Anderson on Eulima 28th; 2d Caldwell on Eritas; 3d Escher on Envious Maiden; 4th McHenry on Pride McHenry 116th; 5th Escher on Kenzie; 6th McHenry on Queen McHenry 58th.

Junior Heifer Calf (3 shown)—1st Anderson & Son on Jilt 7th; 2d Escher on Blue Blood Lady; 3d Caldwell on Pride Cap Lady 7th.

Senior Champion Bull—McHenry on Erwin C.

Junior Champion Bull—Caldwell on Ebony of A. 3d.

Grand Champion Bull—McHenry on Erwin C.

Senior Champion Cow—McHenry on Black Cap McHenry 88th.

Junior Champion Cow—McHenry on Pride McHenry 109th.

Grand Champion Cow—McHenry on Black Cap McHenry 88th.

Aged Herd (3 shown)—1st McHenry on herd headed by Erwin C.; 2d Anderson & Son on herd headed by Enus 3d; 3d Caldwell on herd headed by Kihoga.

Young Herd (3 shown)—1st Anderson & Son on herd headed by Provo 2d; 2d Escher on herd headed by Enright; 3d McHenry on herd headed by Quality Prince 2d.

Calf Herd (4 shown)—1st Anderson & Son on herd headed by Lord Melamere; 2d Escher on herd headed by King Earl; 3d McHenry on herd headed by Brewster of Denison; 4th Caldwell on herd headed by Pisgah.

Get of Sire (4 shown)—1st Anderson & Son on the get of Bonnie Ben Royal; 2d McHenry on the get of Baden Lad; 3d Caldwell on the get of Undulata Black Cap Ito; 4th Escher on the get of Earl Eric of Ballindallock.

Produce of Cow (7 shown)—1st Caldwell on the produce of Entangle of Quietdale; 2d Escher on the produce of Pride McHenry 47th; 3d Anderson & Son on the produce of Pride of Elchies 10th; 4th Caldwell on the produce of Erica 15th of Keillor Park.

POLLED DURHAMS.

The only animals of this breed exhibited were from the herd of Slade Brothers, Fulton, S. D.

RED POLLED

W. S. Hill, Alexandria, S. D., was the only exhibitor.

DAIRY CATTLE.

HOLSTEIN-FRIESIANS.

The Iowana Farms, Davenport, Iowa, and H. G. McMillan & Sons, Rock Rapids, Iowa; were the only competitors in this breed, and the first-named herd swept most of the ribbons.

HORSES

PERCHERONS.

Exhibitors: C. P. Quirin, Marcus, Iowa; Miller & Brown, Marcus, Iowa; H. G. McMillan & Sons, Rock Rapids, Iowa; P Wickem, Alexandria, S. D.; J. T. Judge, Carroll, Iowa. Awards:

Stallion 3 Years or Over—1st, 2d and 3d Quirin.

Stallion Under 3 Years—1st, 2d and 3d Quirin.

Champion Stallion—Quirin.

Mare 3 Years or Over—1st Miller & Brown; 2d McMillan; 3d Wickem.

Champion Mare—Miller & Brown.

Get of Sire—1st Quirin; 2d Wickem; 3d McMillan & Sons.

Produce of Mare—1st Wickem; 2d Quirin; 3d Judge.

Stallion and 4 Mares—1st McMillan & Sons; 2d Wickem; 3d Miller & Brown.

Five Stallions—1st Quirin; 2d Miller & Brown.

Champion Stallion in Open Class—McMillan & Sons.

Champion Mare in Open Class—Miller & Brown.

BELGIANS.

Exhibitors. Chas. Irvine, Ankeny, Iowa; Burress Brothers, Carroll, Neb. Awards:

Stallion 4 Years or Over—1st Irvine; 2d Burress Brothers.

Stallion 3 Years and Under 4—1st Irvine.

Stallion 2 Years and Under 3—1st Irvine; 2d Burress Brothers; 3d Irvine.

Stallion 1 Year and Under 2—1st Irvine.

Stallion Foal—None shown.

Mare 4 Years or Over—1st Irvine.

Mare 3 Years and Under 4—1st Irvine.

Mare 2 Years and Under 3—1st Irvine; 2d Irvine.

Mare 1 Year and Under 2—1st Irvine; 2d Irvine; 3d Irvine

Mare Foal—None shown

Get of Sire—1st Irvine.

Produce of Mare—1st Irvine; 2d Irvine.

Stallion any age bred by exhibitor—1st Irvine; 2d Burress.

Mare any age bred by Exhibitor—1st Irvine; 2d Irvine; 3d Irvine.

FRENCH DRAFT.

Peter Moir, Orange City, Iowa, made the only exhibit of fifteen head and captured all prizes.

COACHERS.

Held Brothers, Hinton, Iowa, were exclusive exhibitors of this breed.

SWINE

While the turn out of the show was as large as the conditions of the season would justify, the merit of the animals shown was not up to the usual standard. There were 353 Duroc Jerseys, 237 Poland Chinas, 229 Chester Whites, 122 Hampshires, fifty-five Berkshires, and twenty-three Yorkshires—or 1,019 head in the entire show. The Chester Whites only showed an increase in numbers over the previous year, and really put up the better show from a breed standpoint. However, it is not a year for comparisons, as the prevalence of disease has reduced a great many herds and discouraged many others. The judges faced no outstanding animals, and each commented upon the lack of good feet in the younger classes of all breeds. The awards by breeds follow:

DUROC JERSEYS.

Exhibitors: W. B. Albertson, Lincoln, Neb.; C. R. & R. W. Steele, Ireton, Iowa; E. J. Campton, Newell, Iowa; D. C. Cochran, Lincoln, Neb.; Caine Brothers, Odebolt, Iowa; C. A. DeVaul, Inwood, Iowa; Heiko Gruis; George, Iowa; W. H. Henderson, Cushing, Iowa; J. E. Hammer, Paton, Iowa; Grant Lynn, Spirit Lake, Iowa; H. A. Moen, Inwood, Iowa; Wm. Morgan Wayne, Neb.; T. J. Overboe, Allen, Neb.; Robert Pritchard, Carroll, Neb.; W. W. Robbins, Lyons, Neb.; E. D. Robbins, Lyons, Neb.; Chas. Seaman, Jefferson, Iowa; M. T. Twedt & Sons, Legrand Iowa; R. C. Veenker, George, Iowa; W. J. Wendt, Remsen, Iowa; Weiland & Gordon, Canistota, S. D.; A. J. Reisser, Sanborn, Iowa.

Judge—O. S. West, Paullina, Iowa.

Boar 2 Years or Over (6 shown)—1st Weiland & Gordon on Missouri Model, Top; 2d Seaman on Manager; 3d Veenker on A Wonder; 4th Moen on Ringmaster.

Boar 18 Months and Under 24 (3 shown)—1st Gruis on A Wonder Jr.; 2d Weilman & Gordon on Model Jim; 3d Campton on Duke Muncie.

Boar 12 Months and Under 18 (14 shown)—1st Veenker on Model Chief Jr.; 2d Pritchard on King of Kings; 3d Overboe on Maple Leaf Golden Model; 4th Caine Brothers on Spotless Indicator.

Boar 6 Months and Under 12 (16 shown)—1st Pritchard; 2d Morgan; 3d Lynn; 4th Seaman.

Boar Under 6 Months (20 shown)—1st Steele & Son; 2d Weiland & Gordon; 3d Henderson; 4th Twedt & Sons.

Sow 2 Years or Over (6 shown)—1st Moen on Lady A Wonder; 2d Weiland & Gordon on Golden Queen; 3d Reisser; 4th Weiland & Gordon on Crimson Rose.

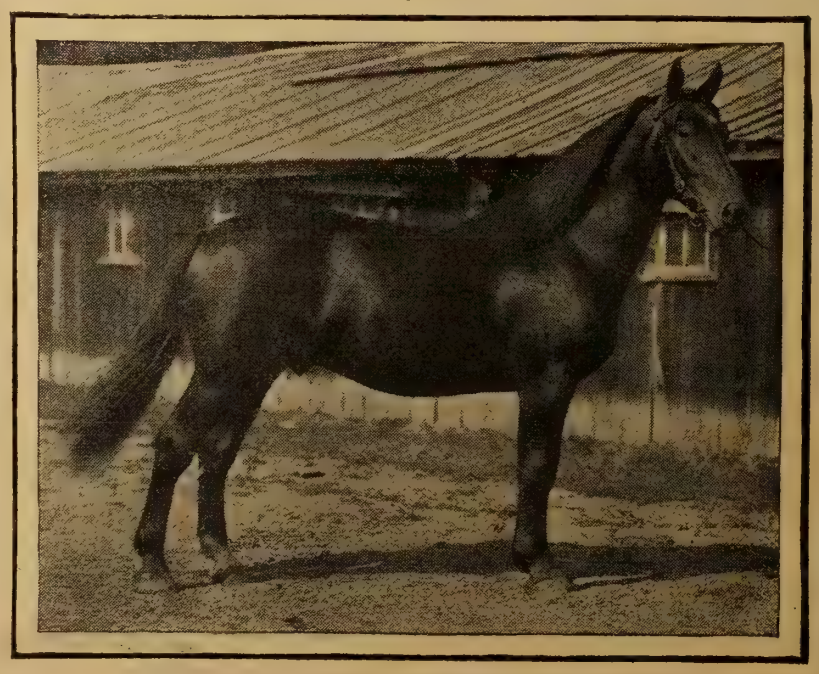
Sow 18 Months and Under 24 (2 shown)—1st Weiland & Gordon on Golden Mabel; 2d Weiland & Gordon.

Sow 12 Months and Under 18 (10 shown)—1st Weiland & Gordon on Crimson Beauty; 2d Veenker; 3d Weiland & Gordon; 4th Twedt & Sons.

Sow 6 Months and Under 12 (16 shown)—1st Albertson; 2d Lynn; 3d Lynn; 4th Lynn.

Sow Under 6 Months (11 shown)—1st Weiland & Gordon; 2d Campton; 3d Weiland & Gordon; 4th DeVaul.

Herd Over 1 Year (3 shown)—1st



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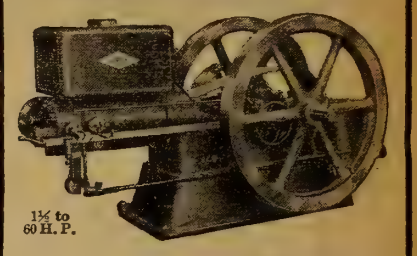

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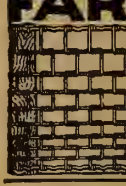

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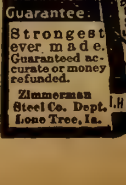

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Welland & Gordon on herd headed by Missouri Model Top; 2d Welland & Gordon on herd headed by Model Jim; 3d DeVaul & Moen on herd headed by Ringmaster.

Herd Over 1 Year Bred by exhibitor (2 shown)—1st Welland & Gordon; 2d Welland & Gordon.

Herd Under 1 Year (6 shown)—1st Lynn on herd headed by Fancy Col.; 2d Welland & Gordon; 3d Veenker.

Herd Under 1 Year Bred by exhibitor (6 shown)—Awards same as in above class.

Get of Sire (7 shown)—1st Lynn on the get of Evergreen Prince; 2d Welland & Gordon on the get of Crimson Chief; 3d Welland & Gordon on the get of Golden Model 20th.

On Produce of Sow (4 shown)—1st Welland & Gordon on the produce of Miss Betsy; 2d Campton on the produce of Crimson Belle; 3d Veenker on the produce of Crimson Lucy 2d.

Champion Boar—Welland & Gordon on Missouri Model Top.

Champion Sow—Welland & Gordon on Crimson Beauty.

POLAND CHINAS.

Exhibitors: E. J. Banks, Montour, Iowa; H. C. Carpenter, Hudson, S. D.; C. A. Davis, Galva, Iowa; Fred Dralle, Hill, S. D.; Henry Dorr, Remsen, Iowa; T. Griffin & Son, Manson, Iowa; Gearke Grothers, Aurelia, Iowa; O. D. Hart, Lemars, Iowa; Henry Brothers, Sheldon, Iowa; J. C. Hoag, Manson, Iowa; C. F. Hood Sioux City, Iowa; Hugh Irwin, Ireton, Iowa; James Jensen & Sons, Newell, Iowa; W. T. McLaughlin, Manson, Iowa; R. A. Schug, Coleridge, Neb.; John Schmieder, Remsen, Iowa; D. E. Warner, Remsen, Iowa. Judge—J. M. Stewart, Ainsworth, Iowa. Awards:

Boar 2 Years or Over (7 shown)—1st Dorr on Expander; 2d Griffin & Son on Meidier; 3d Jensen & Sons on Orange Jumbo; 4th Hoag on D's. Defender.

Boar 18 Months and Under 24—(none shown).

Boar 12 Months and Under 18 (3 shown)—1st Dralle on Dralle's Wonder; 2d Dralle on Calypso Wonder; 3d Davis on Wonder's Equal.

Boar 6 Months and Under 12 (12 shown)—1st Jensen & Sons on an unnamed pig; 2d Dralle on an unnamed pig; 3d Schmieder on Big Chief; 4th Schmieder on Quality Chief.

Champion Boar—Dorr on Expander.

Champion Sow—Schmieder on Winning Beauty.

CHESTER WHITES.

Exhibitors: P. D. Bouchard, Jefferson, S. D.; W. H. Dunbar, Jefferson, Iowa; Frank Gould & Son, Rockwell City, Iowa; W. E. Gaffey, Storm Lake, Iowa; A. B. Heath, Newell, Iowa; T. F. Householder, Storm Lake, Iowa; Thos. F. Kent, Walnut, Iowa; F. W. LaDoux, Spirit Lake, Iowa; H. C. Mehring, Manson, Iowa; C. W. Maynard; Elk Point, S. D.; Fred Pittman, Shelby, Iowa; Sam Coulson, Storm Lake, Iowa. Judge—W. H. Pew. Awards:

Boar 2 Years or Over (8 shown)—1st LaDoux on Gold Coin; 2d Kent on Kent's Promotor; 3d Bouchard on Sioux Chief; 4th Mehring on H. C. Russell.

Boar 18 Months and Under 24 (1 shown)—1st Householder on White Wonder.

Boar 12 Months and Under 18 (7 shown)—1st Kent on Iowa Prince; 2d Gaffey on Young Sam; 3d Mehring on Mehring's O. K.; 4th Pittman on White Thomas.

Boar 6 Months and Under 12 (7 shown)—1st Bouchard on pig not named; 2d LaDoux on pig not named; 3d Kent on Iowa King 2d; 4th Householder on pig not named.

Boar Under 6 Months (18 shown)—1st Bouchard; 2d Kent; 3d Mehring; 4th Dunbar.

Sow 2 Years or Over (6 shown)—1st Kent on Kent's Kind; 2d Kent on Iowa Nora; 3d Mehring on H. C. Iowa Gem; 4th Kent on Iowa Delight.

Sow 18 Months and Under 24 (3 shown)—1st Kent on Iowa Favorite; 2d Mehring on H. C. Sensation; 3d Pittman on Perfect Lady 2d.

Sow 12 Months and Under 18 (5 shown)—1st Mehring; 2d Kent on Kent's Beauty 2d; 3d Kent on Iowa Bond; 4th Pittman on Beauty.

Sow 6 Months and Under 12 (7 show)—1st LaDoux; 2d Kent; 3d LaDoux; 4th Kent.

Sow Under 6 Months (17 shown)—1st Kent; 2d Mehring; 3d Coulson; 4th Heath.

Champion Boar—LaDoux on Gold Coin.

Champion Sow—Kent on Kent's Kind.

Herd Over 1 Year (3 shown)—1st Kent; 2d Kent; 3d Mehring.

IRVINE'S FIRST-PRIZE THREE-YEAR-OLD BELGIAN STALLION.

Boar Under 17 Months (17 shown)—1st Henry Bros.; 2d Henry Bros.; 3d Schmieder; 4th Schmieder.

Sow 2 Years or Over (1 shown)—1st Dralle on Dakota Belle.

Sow 18 Months and Under 24 (1 shown)—1st Dralle on Queen's Daughter.

Sow 12 Months and Under 18 (9 shown)—1st B. Schmieder on Winning Beauty; 2d Dralle on Expansion Queen; 3d Schmieder on Cash Maid; 4th Dorr on Sweet Mabel.

Sow 6 Months and Under 12 (14 shown)—1st Schmieder on Purple Girl; 2d Dorr on unnamed sow; 3d Dorr on an unnamed sow; 4th McLaughlin.

Sow Under 6 Months (15 shown)—1st Henry Bros.; 2d Carpenter; 3d Jensen & Sons; 4th Schmieder.

Herd Over 1 Year (1 shown)—1st Dralle on herd headed by Chief Price Wonder.

Heard Over 1 Year bred by exhibitor—(none shown).

Herd Under 1 Year (5 shown)—1st Dorr; 2d Schmieder on herd headed by Big Chief; 3d Jensen & Sons.

Herd Under 1 Year bred by Exhibitor (5 shown)—1st Dorr; 2d Schmieder; 3d Jensen & Sons.

Get of Sire (6 shown)—1st Schmieder on the get of the Blue Valley Chief; 2d Henry Bros.; 3d Dorr on the get of Expander.

Produce of Sow (6 shown)—1st Henry Bros.; 2d Jensen & Sons on the produce of Crop Ear; 3d Davis in the produce of Miller's Florence.

Herd Over 1 Year bred by Exhibitor (2 shown)—1st Kent; 2d Kent.

Herd Under 1 Year (3 shown)—1st Kent; 2d Kent; 3d Mehring.

Herd Under 1 Year bred by Exhibitor (3 shown)—1st Kent; 2d Kent; 3d Mering.

Get of Sire (7 shown)—1st Kent on the get of Iowa Protection; 2d LaDoux on the get of Gold Coin; 3d Kent on the get of Ned.

Produce of Sow (6 shown)—1st Kent on the produce of Iowa Security; 2d Gaffey on the produce of Peach Bud; 3d holder on the produce of White Alice.

HAMPSHIRES.

Exhibitors: R. J. Boles, Alta, Iowa; Roy E. Fisher, Winside, Neb.; H. C. Mehring, Manson, Iowa; Clayton Messenger, Keswick, Iowa; F O. Peterson, Galva, Iowa; W. F. Wiley, Bronson, Iowa. Judge—Wilson Rowe, Davenport, Iowa.

It was a rather better collection of Hampshires than has been gotten together at Sioux City at any previous fair, including 122 head, and among them some of the most successful winners at the state fairs of the season. The awards were placed as follows:

Boar 2 Years or Over (7 shown)—1st Messenger on Messenger Boy; 2d Fisher on Dr. Scott; 3d Mehring on John Eldon; 4th Fisher on Winside Star.

Boar 18 Months and Under 24 (4 shown)—1st Peterson on Peterson's

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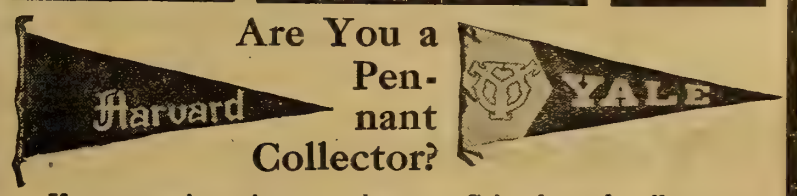

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We can supply you with any of the following: Iowa, Nebraska, Illinois, Indiana, Ohio, Minnesota, Kansas, North Dakota, Colorado, Montana, Missouri, Oklahoma, Tennessee, Kentucky, Arkansas, Texas, Arizona, Wisconsin, Michigan, Wyoming, Harvard, Cornell, Yale, Princeton, Chicago.

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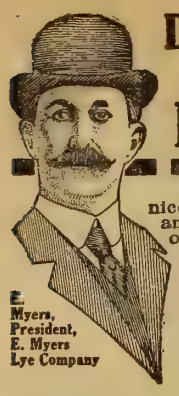

E. Myers, President, E. Myers Lye Company

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Prevent Future Losses With
MERRY WAR POWDERED LYE

I know just how you farmers and hog raisers feel when you see a nice big bunch of fat hogs taken down sick, refusing to eat, getting thin and scrawny and slinking off into fence corners to lie down, stretch out and die. It's hard luck. It means the loss of hundreds—perhaps thousands of dollars to any one of you.

Now I want to tell you that there's no need for you to be discouraged—no need for you to repeat that disheartening experience **—no need for you to lose another hog on account of Cholera or Worms.** Just do what thousands of other practical farmers are doing every day—mix a little MERRY WAR POWDERED LYE with your hogs' rations (directions on every can) **and feed regularly twice each day.**

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J. E. VAWTER, Beverly, Kans.—"25 hogs lost 1 mile east; 50 hogs lost 2 miles north; 20 hogs lost 2½ miles south of me, but I used MERRY WAR POWDERED LYE and escaped loss."

MRS. T. AKINS, Hoxie, Ark.—"MERRY WAR POWDERED LYE is all the Lye that we use. Before we began using it we had a lot of hogs with Cholera. We used it and it cured our hogs."

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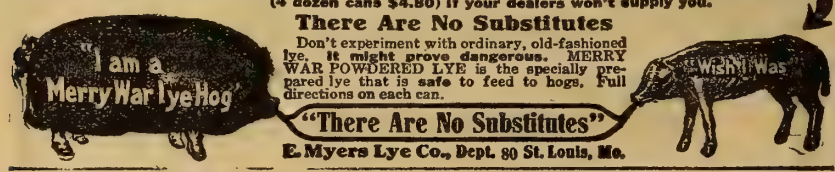
Don't experiment with ordinary, old-fashioned lye, **it might prove dangerous.** MERRY WAR POWDERED LYE is the specially prepared lye that is **safe** to feed to hogs. Full directions on each can.



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Genasco THE TRINIDAD-LAKE-ASPHALT Ready Roofing

Because it gives absolute protection Genasco is economical roofing—it costs less in the end.

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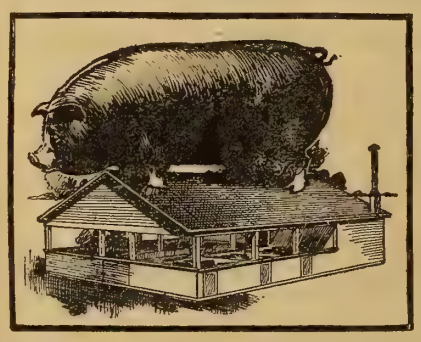

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R. F. D.—Town

State

Choice; 2d Messenger on Eddie Mac; 3d Fisher on Danube 3d; 4th Messenger.

Boar 12 Months and Under 18 (5 shown)—1st Fisher on Tatro's Messenger; 2d Mehring on Col. Joe; 3d Messenger on Walter J.; 4th Messenger on Sunny Jim 5th.

Boar 6 Months and Under 12 (11 shown)—1st Fisher; 2d Peterson; 3d Boles; 4th Mehring.

Boar Under 6 Months (13 shown)—1st Mehring; 2d Fisher; 3d Messenger; 4th Messenger.

Sow 2 Years or Over (6 shown)—1st Peterson on Excelline; 2d Peterson on Galva Pride; 3d Messenger on Miss Scott; 4th Boles on Catalpa Girl.

Sow 18 Months and Under 24 (6 shown)—1st Messenger on Salome; 2d Messenger on Western Belle; 3d Fisher on Crestline Princess; 4th Fisher on Hamburg Belle 1st.

Sow 12 Months and Under 18 (9 shown)—1st Mehring on H. C. Pansy Queen; 2d Messenger on Marie; 3d Boles on Susan; 4th Boles on Miss Coulson.

Sow 6 Months and Under 12 (7 shown)—1st Fisher on Fisher's Queen 7th; 2d Messenger on Evaline; 3d Peterson on Miss Stella 5th; 4th Fisher on Fisher's Queen 8th.

Sow Under 6 Months (11 shown)—1st Fisher; 2d Messenger; 3d Messenger; 4th Mehring.

Herd Over 1 Year (4 shown)—1st Messenger on herd headed by Messenger Boy; 2d Fisher on herd headed by Tatro's Messenger; 3d Mehring on herd headed by Col. Joe.

Herd Over 1 Year bred by Exhibitor (3 shown)—1st Messenger on herd headed by Walter J.; 2d Fisher on herd headed by Winside Star; 3d Boles on herd headed by Wonderful.

Herd Under 1 Year (5 shown)—1st Fisher on herd headed by Fisher's King 5th; 2d Messenger on herd headed by Pioneer Boy; 3d Peterson on herd headed by Cherokee Boy.

Herd Under 1 Year Bred by Exhibitor (5 shown)—Awards same as in the above class.

Get of Sire (6 shown)—1st Messenger on the get of Messenger Boy; 2d Fisher on the get of Winside Star; 3d Peterson on the get of Cherokee Lad.

Produce of Sow (5 shown)—1st Messenger on the produce of Heroine; 2d Mehring on the produce of Kentucky Belle; 3d Fisher on the produce of Hamburg Belle.

Champion Boar—Messenger on Messenger Boy.

Champion Sow—Messenger on Salome.

BERKSHIRES.

Exhibitors: J. F. Wheeler, Newell, Iowa; George Boyce, Newell, Iowa; Iowana Farms, Davenport, Iowa. Judge—Prof. W. H. Pew, Ames, Iowa. Awards:

Boar 2 Years or Over (1 shown)—1st Iowana Farms on Baron Premier 102d.

Boar 18 Months and Under 24 (1 shown)—1st Boyce on Trueworth's Sensation.

Boar 12 Months and Under 18 (3 shown)—1st Iowana Farms on Rival's Iowana Baron 3d; 2d Boyce on Master Champion 3d; 3d Wheeler.

Boar 6 Months and Under 12 (6 shown)—1st Iowana Farms; 2d Iowana Farms; 3d Wheeler; 4th Wheeler.

Boar Under 6 Months (4 shown)—1st Boyce; 2d Boyce; 3d Wheeler; 4th Wheeler.

Sow 2 Years or Over (4 shown)—1st Iowana Farms on Rival Duchess 23d; 2d Iowana Farms on Ravenwood Duchess; 3d Boyce on Princess of Maple Grove; 4th Wheeler on Varden May.

Sow 18 Months and Under 24 (4 shown)—1st Iowana Farms on Rookwood Lady 52d; 2d Iowana Farms on Rookwood Laurel 14th; 3d Iowana Farms on Longfellow's Duchess Premier 5th; 4th Boyce on Sensation Sallie.

Sow 12 Months and Under 18 (5 shown)—1st Iowana Farms on Rival's Jewell 6th; 2d Iowana Farms on Rival's Jewell Dee; 3d Iowana Farms on Rival's Jewell Dee 2d; 4th Iowana Farms on Rival's Jewell 7th.

Sow 6 Months and Under 12 (4 shown)—1st Iowana Farms on Iowana Matchless Queen; 2d Iowana Farms on Iowana Matchless Lady; 3d Iowana Farms on Iowana Lady Queen 2d; 4th Iowana Farms on Iowana Peaceful 3d.

Sow Under 6 Months (5 shown)—1st Boyce; 2d Boyce; 3d Wheeler; 4th Wheeler.

Champion Boar—Iowana Farms on Baron Premier 102d.

Champion Sow—Iowana Farms on Rookwood Lady 52d.

Herd Over 1 Year (3 shown)—1st Iowana Farms; 2d Iowana Farms; 3d Boyce.

Herd Over 1 Year bred by Exhibitor—(None shown).

Herd Under 1 Year (3 shown)—1st Iowana Farms; 2d Iowana Farms; 3d Boyce.

Herd Under 1 Year bred by Exhibitor (3 shown)—1st Iowana Farms; 2d Boyce; 3d Boyce.

Get of Sire (4 shown)—1st Iowana Farms; 2d Boyce; 3d Wheeler.

Produce of Sow (3 shown)—1st Boyce; 2d Wheeler; 3d Wheeler.

YORKSHIRES.

B. F. Kunkle, Redfield, Iowa, showed twenty-three head of this breed and was the only exhibitor.

SHEEP.

The sheep show was a somewhat limited one, made up of Shropshires, Oxfords, Leicesters and Southdowns. They were shown by J. C. Heideman, Montevideo, Minn.; C. F. Hood, Sioux City, Iowa; J. P. Ring, Excelsior, Minn.; C. H. Morris, Carroll, Neb., and H. G. Skinner, Brookings, S. D. Few classes had more than two entries, and the prizes were about evenly distributed.

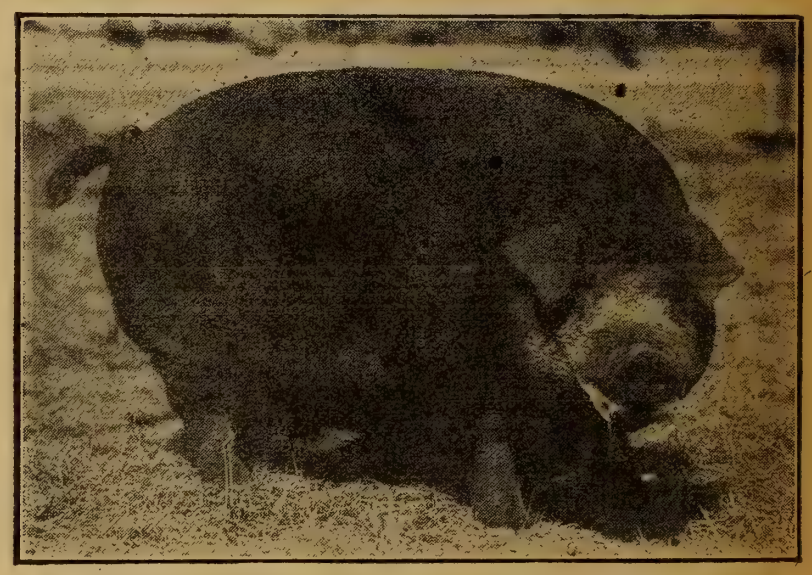
THE AMERICAN ROYAL LIVE STOCK SHOW.

Entries that have already been received by Secretary Wornall, of the American Royal Live Stock Show, indicate that records will be broken this year between the dates October 6th and 11th, this being the time of the American Royal. In the breeding and feeding beef cattle classes the prospect is exceedingly bright for a splendid showing and the same may be said of the horse and sheep departments.

The drouth will not affect the Royal in any way whatever, but on the other hand it is believed that conditions will tend to force farmers to take greater interest in improving live stock to the end that diversified farming may be popularized in the future.

Kansas City is the center of a very important territory agriculturally and as the American Royal constitutes the climax of the state fair season we would point out the natural advantage that will come to the average man from attending this show. Important sales will be held during the week, Aberdeen Angus being sold on October 7th; Short-horns on October 8th; Herefords on October 9th and Galloways on October 10th. These sales in themselves are educational and yet they are only supplementary to an exposition that has grown in the esteem of stockmen to that point where the ribbons are regarded as being second in importance to those distributed by no other exposition on the continent.

The reports from Kansas state that the county fairs are as successful this year as usual, notwithstanding the effects of the drouth of last summer. The crowds are just as big, the stock exhibits are fully up to the average, and the grain and fruit exhibits are surprising even the Kansans who had been led to believe that the crops were all ruined in that state.



GOLDEN MODEL 31ST.

Grand champion Duroc Jersey boar Sioux City, 1912, second at Lincoln, 1913, and fifth at Des Moines, 1913. A great sire and will sell in Waltemeyer Bros'. sale at Melbourne, Iowa, September 30th. See field note on page 30.

The Economy of Power Farming

The Largest Tractor Contest Ever Held in the United States Just Completed.—By Douglas Malcom.

EACH new step in the development of farming marks a new alliance between the producers in industry and the producers in agriculture. This interdependence was shown very clearly in the recent mammoth power farming demonstration which was held during the week ending September 13th at Fremont, Nebraska, under the auspices of the Fremont Commercial Men's Association. In a way this demonstration typified the new era which has cast its mantle over the commercial world. It shows in marked contrast the fast disappearing theory of caveat emptor—"let the buyer beware," with the present almost universally adopted slogan of "let the buyer be better posted."

So strongly has this underlying principle of business taken hold of the interests which deal directly with the farm industry that at the request of the Commercial Men's Association, backed by the influential agricultural press of Omaha, sixteen of the largest oil and gasoline tractor manufacturers, and as many more plow companies loaned the services of several hundred of their employes and the use of forty odd engines with even more plows for an entire week in order that an extensive object lesson might be given in cheaper crop production.

Farm machine demonstrations are not new things. In the early days when agriculture was just finding itself, when the reaper was a novelty and the threshing machine a curiosity, demonstrations were frequent and fierce. Later on, when more complicated machines became necessary, demonstrations became an almost essential feature of their introduction.

This is particularly so with engines and other devices designed for power farming. Perhaps the greatest impetus toward making power farming well known and popular was given by the International contests at Winnipeg, but these meets were more demonstrations of that type marked by keen rivalry and more or less commercialism, and oftentimes the interests of the purchaser were overlooked in the interests of the winner. The Fremont concourse, on the other hand, was purely educational. Big business was there, but without immediately trying to make business big.

It was a co-operative attempt by the state authorities, the agricultural press, and the tractor companies to demonstrate not only their particular machines, but their ability to work together as a unit in the promotion of better farming—an attempt, as it were, to write "quod est demonstrandum," on the modern trade mark in place of the shop-worn motto, "The buyer takes all risks." It was an attempt to show that on the farm, as in the store, it is not the price of a product which determines the profit, but the difference between what it costs and what it sells for.

With these three theories emanating from everyone interested in the affair, it naturally follows that the affair was interesting to everyone. The United States is rich in its agricultural resources. It is also extravagant in its agricultural methods. Too many land owners are willing to work without salaries and to keep horses incapable of meeting their board bills. In the region where this demonstration was held nature this season had been unkind. It had suffered so severely with the drouth that the only spots of green which the eye could see were here and there fields of that heaven-sent plant—alfalfa.

Fodder will be scarce this winter and horse feed will be high.

On this demonstration field were a dozen small outfits which could be bought for the price of six or seven horses, and they could easily do the work of from twelve to fifteen, whether the work consists of plowing, drilling, harvesting, hauling, logging, making roads, or baling hay. They can turn over an acre six to seven inches deep for from forty cents to fifty cents, and they can drill it for even less; they can haul the harvest in from the wheat field or the corn field with a speed which is rapidly solving the harvest-hand problem; they can handle the disks and drills in such a way as to turn out a seed bed that even the intensive European farmers would envy; they can, as a well-known agricultural college professor said, "perform every operation in wheat growing, from plowing to threshing and conveying it to the market, and every operation in corn growing but cultivating."

The difference between motor power and horse power is that when a tractor quits work its expense ends and when a horse quits work its expense begins. A hay famine has no terrors for the power farmer.

There was no work done at Fremont that would indicate that horses were a back number or that they should be eliminated entirely from the farm. That fate has overtaken them quickly enough in the cities. It was shown, however, that in all the branches of farm work where power and speed are essential, if we are to get our crops with less work and less time, there is a marked saving in using engines. This is seen not only in labor, and time, but in the saving of expense for fuel—in other words, if the time and labor-saving elements are not considered at all, it takes a greater cash value of oats to get a definite amount of work out of horseflesh than it does to get a similar amount of work out of an engine burning kerosene.

Among the prominent spectators who seemed to regret the close of each day's work, so interested were they in the features of each machine, was M. Deshmukh, a native Hindo from India, who is investigating power plowing in this country for the interests of the British government. India is one of the largest territories not yet penetrated by American farm machine companies. Various efforts have been made at different times to introduce the same labor-saving machines which American farmers use, but so cheap is labor in that country that a fairly able-bodied laborer can be hired for seven cents a day, thus eliminating a great deal of the economy brought about by using machines. The second spectator was a well-known Russian representative who is over in this country studying the possibilities of kerosene engines. Russia, itself, is one country in the world which produces more wheat than the United States. Millions of dollars of American-made farm machines are sold there each year, but the gasoline engine industry has not made much headway, owing to the high price of gasoline. Kerosene, on the other

Look Out for Hog Cholera!

Scourge Spreading Rapidly

Can Be Prevented—Can't Be Cured

Don't be the man who locks the stable door after the horse is stolen. Don't wait until cholera breaks out in your own neighborhood before you try to save your herd. "An ounce of prevention is worth a pound of cure"—and in this case a little prevention **without one penny of risk** may mean the saving of many hundreds of hardearned dollars. You can't afford to risk another day's delay—especially when I offer to do for you what I have done for thousands of farmers, and before you pay me a single penny. Read my offer below:

Act Quick—Don't Wait Until the Scourge Sweeps Off Your Hogs

Your only hope lies in **prevention**, and the time to act is now. The first step is to get rid of the disease-breeding, treacherous stomach and intestinal worms—the pests that not only rob your animals of their food but, what is still worse, sap their vitality and make them easy victims of cholera and other contagious diseases. Worms are often so deadly in their attacks that they are mistaken for the cholera scourge itself. Rid your hogs of these disease-breeding pests—do as thousands of other farmers are doing—feed Sal-Vet—get rid of the WORMS—and you will have less to fear from cholera and similar fatal diseases.

I'll rid your hogs of worms or no pay. I'll drive out the blood-sucking, life-sapping, disease-breeding parasites which are the cause of 90% of all live stock ailments. I'll do for you what I have done for thousands of farmers. **I'll prove it before you pay.** I'll do it with Sal-Vet—the greatest worm destroyer and live stock conditioner ever discovered—the most widely known and used live stock preparation on the market. You take no risk whatever. Sal-Vet has saved millions of dollars worth of hogs because it promptly gets rid of the destructive WORMS and puts all farm animals in a vigorous, healthy condition enabling them to better resist contagious diseases. Read the letters below.

The Great Worm Destroyer

TRADE MARK

SAL-VET

REG. U.S. PAT. OFF.

The Great Live Stock Conditioner

"Hogs all around my place had the cholera. I have been feeding Sal-Vet and not one of my hogs were taken sick. I cannot help believing that Sal-Vet prevented my hogs from contracting the disease." (Signed) L. O. Haworth, Cuba, Kansas.

"I cannot find words to express how much I think of 'Sal Vet.' Hogs all around my place had cholera, but I did not lose a single one of mine, and all winter they continued to look just fine. They had been on Sal-vet of course."—Wm. Campbell, Rt. No. 10, Decatur, Ind.

"I had cholera on my farm but not in the particular bunch to which I fed Sal-Vet. I consider it a good medicine to feed to hogs the Year 'round."—H. M. Schondelmaier, Houstonia, Mo.

"I have used Sal-Vet for two years, within which time I have not lost a single hog. I consider it a sure preventive for cholera. Have fattened 74 head of May pigs that we sold December 10th, and which averaged 207 pounds each. They took Sal-Vet every day, and never stopped growing. We cannot say enough for the merit of Sal-Vet."—F. R. Dalrymple, Carthage, Ind.

"My hogs were in bad shape when I received your Sal-Vet. Since feeding it they look fine and ARE fine. I have not lost a hog but those belonging to my neighbors on all sides have died."—D. H. Manshop, Colo, Iowa.

"The hog cholera is all around us in this neighborhood, but so far there is not a single case among the hogs belonging to the men who are feeding Sal-Vet."—Thomas Cannedy, Woodhouse, Ill.

I'll Feed Your Stock 60 Days Before You Pay

All I ask is the privilege of sending you as much Sal-Vet as you need to last all your stock 60 days. I don't ask you to send me a single penny in advance or to take any risk. Simply place Sal-Vet where your hogs, sheep, cattle and horses can run to it freely and **they will doctor themselves.** Sal-Vet is a medicated salt. It requires no mixing, no dosing, no drenching, no starving. No trouble at all.

Send No Money---Just the Coupon

Simply fill out the coupon, tell me how many head of stock you have, and I'll ship you enough Sal-Vet to last all of them 60 days. When it arrives pay the freight charges and at the end of 60 days report results. If Sal-Vet does not do what I claim, I'll cancel the charge—you won't owe me a penny. Send today. Address

SIDNEY R. FEIL, President

THE S. R. FEIL CO., Man'f'g Chemists

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PRICES: 40 lbs., $2.25; 100 lbs., $5.00; 200 lbs., $9.00; 300 lbs., $13.00; 500 lbs., $21.12. No orders filled for less than 40 lbs. on 60-day trial offer. Never sold in bulk; only in Trade-Marked "Sal-Vet" packages. 60 day trial shipments are based on 1 lb. of Sal-Vet for each sheep or hog and 4 lbs. for each horse or head of cattle, as near as we can come without breaking regular packages.

SIDNEY R. FEIL, Pres.
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Ship me enough SAL-VET to last my stock 60 days. I will pay the freight charges when it arrives, agree to report results promptly in 60 days, and will at that time pay for it if it does what you claim; if it does not you are to cancel the charge.

Name.....

P.O..... State.....

Shipping Station.....

Number of Sheep.....

Hogs..... Cattle..... Horses.....

Greater Gains on Home Grains!

Your own rations would induce a greater flow of richer milk if better balanced. Replace 3 to 5 lbs. of each grain mixture with Douglas Gluten Feed, and you add—at an economical figure—the extra protein that means bigger, steadier milk profits.

This feed is a high protein, pure corn concentrate; thoroughly relished, easily assimilated.

DOUGLAS GLUTEN FEED

Not a prepared feed, but a balancer that makes home rations milk producers.

Feed Douglas Gluten Feed. Make your herd exceed all records. Increase your profits by increasing production. Stock this feed now.

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$25 Cash Reward

For a Name for

This Fine Pony

I will give **$25 FREE** for the best name for this beautiful Shetland pony. Send the best name you can think of right away, for not only do you have a chance to win the $25 prize, but

You Can Win the Pony Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have given "Dandy," "Patches," "Duke" and "Carlo", other beautiful ponies, and now I am going to give away this pony. But first I want a name for him.

1500 Votes Free Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full partiulars about the pony as soon as I hear from you. Write me today.

A. M. PIPER, 688 Popular Building, Des Moines, Ia.

HOLSTEIN-FRIESIAN CATTLE.

65 HEAD REGISTERED HOLSTEIN-FRIESIAN COWS AND HEIFERS

I AM offering a splendid lot of cows and heifers for sale, due to calve in the fall to a son of King of the Pontiacs, or Sir Pontiac Ragapple Korndyke. Will make prices to suit for next sixty days. Also a few bulls of serviceable age for sale. Address **ROCK BROOK FARM, Station B., OMAHA, NEB.**

Pure-bred Registered
HOLSTEIN CATTLE

The Capital, Topeka, Kan., June 16, said; "When Maid Henry, the famous 13-year-old Holstein owned by the Kansas Agricultural College, was working so hard for the record of 19,600 pounds of milk and 835 pounds of butter in a year's time, dairymen prophesied that the Maid would be ruined. But Maid Henry returns to show that she is some cow even after breaking a record. She has a 114-pound male calf, born just the other day to prove it."

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HOLSTEIN BULL AND COWS FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

HOLSTEIN COWS, HEIFERS, BULLS

250 HEAD in herd. Some very choice young bull calves. Write us; let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
WOODLAWN FARM - STERLING, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

HOLSTEIN and Ayrshire bred cows and heifers $250 up. Bulls all ages. Hampshire boar pigs $15 up. William Galloway Farm, Waterloo, Iowa.

FOR HOLSTEINS

WRITE RUSSELL

T. H. RUSSELL, GENEVA, OHIO

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

JERSEY CATTLE.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

REGISTERED JERSEYS, milt-edge butter stock. Young bulls ready for service and cows in milk. Also some fall yearling **Poland China** boars and sows. Call on or address E. S. Buffum, LeRoy, Decatur county, Iowa.

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

Jerseys For Profit

AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., N.Y.

AYRSHIRE CATTLE.

EDELWEIS AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

FRED TSCHUDY & SON
Monroe Wisconsin.

GUERNSEY CATTLE.

GRADE GUERNSEYS and HOLSTEINS

FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

hand, is found plentifully throughout Russia and can be purchased as cheaply as in this country. As practically all of the machines at the present demonstration were burning kerosene, some going so far even as to disconnect entirely the gasoline attachment, this visitor apparently found what he was looking for.

It is estimated that on several occasions during the demonstration over 3,000 persons, men and women, were following the various machines at one time. In commenting on this, Prof. L. W. Chase, president of the society of Agricultural Engineers, said: "Never in all the big international contests at Winnipeg have they had such crowds as they are having here at this American demonstration. I prophesy that this will be of tremendous value to the farmers who are having a chance to study the possibilities of farm power at first hand. In many parts of this country there is a periodic hay famine, or else a scarcity of fodder, but so far we have never had a fuel oil famine. A meet like this teaches the people that there are tractors of all sizes for all farms, and that with good market value which such conditions bring about for hay and oats it will oftentimes be a paying proposition to have a gas or kerosene driven power plant do the work and sell the feed which otherwise would be required to maintain a greater number of horses."

THE DAIRY BARN.

To the Editor of The Homestead:

Care should be taken in building a dairy barn, to have at least a slope from the barn in one direction, affording natural drainage for both barn and yard. If the barn happens to be already built, and is poorly located, much may be done to remedy the evil by draining and grading. It would take only a small amount of labor with team and scraper, when the ground is in suitable condition, to give the surface of the yard sufficient slope to carry off the surface water. It will not be inexpensive, even if dirt has to be hauled to the barn from the outside.

To give his cows the proper shelter, the dairyman must have a clean, warm, well-lighted, and well-ventilated barn. The size will depend altogether upon the capacity of the farm and the number of cows to be sheltered. My ideal is the basement barn, or, in other words, to build the barn on a hillside, or some way that leads to a second story. In this way ventilation and doorways may be had in the sides and end of the barn. The walls of the basement may be made of stone or brick, or if this cannot be afforded, a wall under the side that stands next the hill may be constructed, and the other three sides be made of framing. Many prefer the cement walls, which are cheaper than the rock or brick, as a man can build a cement wall himself, which will save all expense, except for the material. The stalls of the dairy barn should have tight walls and ceiling, but should be well ventilated. It should also have a sound floor. The cows that are forced to stand in a dark, dirty stall cannot be expected to produce as much milk, nor milk that will have the wholesome qualities, as the cow that is furnished with a well-lighted, airy stall; one that has windows to admit the sunlight and one that the foul air of the stable is replaced by the good, pure air, without subjecting the cow to injurious drafts. The stalls with tight walls and ceilings prevent loss of heat in cold weather and thus contribute greatly to the comfort of both the cow and the milker. When the dairy cow is on full feed, she is hard worked and is less able to withstand extremes of weather than other stock, for her energies are then being exerted in the direction of production, rather than self-preservation. It is more profitable, as well as more human to keep her warm by making the stable comfortable instead of compelling her to use large amounts of expensive foods in maintaining her body temperature. Nothing is more important in the dairy barn than a sound, impervious floor. There is more than one benefit derived from such a floor. The animals are more comfortable, and hence, profitable; the manure is saved and applied to the land without loss; the stables are cleaned with less effort, and cleaner milk is produced, which will always command a higher price.

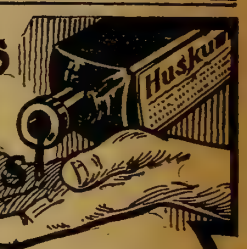
The constant loss of fertility occasioned by the wasting of manure is one of the greatest leaks on the farm. The more progressive dairymen look upon the cement floor as an essential. It is by far cheaper than the wooden floor, when its durability and convenience are considered. The fact that it is permanent adds greatly to its introduction and use in all dairy regions where many cows are kept and the conservation of manure is a vital problem. The cement floor must be well bedded in cold weather, else the udder may become injured by coming in contact with the cold cement.

It is best to haul the manure directly from the barn to the fields, but if this cannot be done every time, it should be removed at least two hundred feet from the barn. No swine pen should be nearer than 200 feet from the barn, as they always have a bad odor, and milk will readily absorb odors. It will help one a great deal in arranging his dairy stalls to visit some good dairy farm and see how others have done the work and what little conveniences experience has developed. The individual who has determined to go into the dairy business may obtain quite a bit of information in the papers, and circulars may also be obtained for the asking that will help solve some of the problems.

E. E. Rushing.

Stick a pin through the cork of every bottle that contains poison, and this may save tragic mistakes when seeking medicine in the dark.

Heals Sore Hands!



Huskum quickly heals cracked, sore and chapped hands. Unequaled for men who do rough work—corn huskers, farmers, lumbermen, mechanics, teamsters, etc. Toughens the skin, but keeps it soft.

HUSKUM

Must satisfy or your money back.
Big 6-ounce bottle 25c at any store. Use one-third of it and if you are not fully satisfied return the rest and get your money back.
Huskum is the best remedy for sore hands, cuts, burns, bruises, scalds, sunburn or sprains.

FREE This Japanese Meershaum Health PIPE

with a big Trial

BOTTLE FREE

Ask your Hardware, General Store or Drug Dealer for free bottle and pipe. If he cannot supply you send his name and address, we will send both, Free. Central Manufacturing Co, 128 Huskum Ave., Iowa City, Ia.

See a Dealer **BEATRICE Cream Separator**

Easy to Run, Hard to Wear Out

BEATRICE CREAMERY COMPANY
Chicago Lincoln, Neb.
Des Moines, Ia. Dubuque, Ia.

Write for Folder **ECONOMY STEEL SILO ROOF**

No silo is complete without it. For Round Silos—wood, cement, hollow tile, brick or concrete. 26 gauge steel. Easy to put on. Rust and Lightning Proof.
DES MOINES SILO & MFG. CO., 540 NEW YORK AVE., DES MOINES, IOWA.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

DOGS.

Scottish Terriers

THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. HARR - - RIVERSIDE, IOWA

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH COLLIE PUPPIES

HIGH-class puppies, the **best blood** in America, from registered sires and dams. Beauties, and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead.
T. A. STEVENSON, SHANNON CITY, IOWA

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

SCOTCH COLLIE PUPS for breeder and farmer. 1 litter sired by Imp. Billesley Brother, best collie ever sent to this country; pedigrees, eligible to register in the A. K. C. T. A. Gough, Bristow, Iowa.

NOTICE MEN---COLLIE and AIREDALE pups let out on shares. Some for sale. Circulars and price lists. No $5.00 ones. P. L. Savage, St. Charles, Illinois.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

SCOTCH COLLIES None better than these. Either sex. Address G. A. Wiebe, Beatrice, Neb.

CENTER KENNELS Fox terriers—50 all ages—bred or open—females—best ratter, pet or watch-dog. T. H. Kaldenberg, 1401 Main St., Pella, Iowa.

FOX TERRIERS FOR SALE---The great little rat, watch and pet dog. Send for price list and description. W. Harr, Riverside, Ia.

SCOTCH Collie full blooded female pups from parents that are natural heelers, well marked, prices reasonable. Earl M. Filson, Birmingham, Iowa.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY
Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

MARCH and April hatched S. C. Rhode Island Red Cockerels, extra good color. Prices right. Mrs. Frances Strong, Oakland, Iowa.

S. C. R. I. RED HENS at $1.00, $1.50 and $2.00. No pullets for sale. Address Mrs. Sophia Rader, Laurel, Ia.

FOR SALE—R. C. R. I. Red hens, Pullets $1.50 each, $15.00 per doz. Cockerels $2.00 each, $18.00 per doz. Mrs. Charles Belz, Conrad, Iowa.

WYANDOTTES.

White Wyandottes 100 hens, 10 cock birds for sale cheap. No. 1 breeders. Geo. W. Livingston, Monroe, Iowa.

FAHA'S Silver Wyandottes; great stock reduction sale now on; 200 young Silvers; bargain prices. Write wants. Frank Faha, Jr., Bx. 626, Dyersville, Ia.

ORPINGTONS.

241 EGG Strain S. C. Buff Orpington, 100 breeders at $1.00 each. Eggs ½ price. Circular free. W. L. Bardsley, Neola, Iowa.

S. C. B. Orpingtons—Yearling and 2-yr-old breeding stock at prices below values. Chance to buy foundation stock cheap. Glynn Poultry Yds., Cascade, Ia.

LEGHORNS.

Chalk White S. C. Leghorns

TEN 1sts at Des Moines, 1912-13. Can furnish birds or pens, line bred or not related, **guaranteed to win.** Your choice of 1,200 early hatched chickens. Get your breeding cockerels now. Come or write.
J. M. WILLIAMSON, DES MOINES, IOWA
R. 1., Phone Drake Park 3048

S. C. BROWN LEGHORNS--A limited number of choice Ckls. and pullets at $1.00 each till Nov. 1st. Write me for exhibition stock. Orlando Jacobs, New London, Iowa.

FOR SALE: S. C. W. LEGHORNS. One-year-old hens at $10 per dozen. Also fine lot of cockerels. Mrs. S. J. Philson, Harlan, Ia.

300 ROSE COMB BROWN LEGHORN young hens and pullets; also 100 ckls. at very reasonable prices. Mrs. Laura Mather, Clarksville, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels. $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley, Selma, Ia.

PLYMOUTH ROCKS.

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

BRAHMAS.

Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

DUCKS.

FAWN and white Indian Runners. Early hatched from prize winners, (mated 3 ducks, 1 drake) $5, others $1 up. Mrs. Howard Niswander, Kinross, Ia.

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

$10.00 PER DOZEN. Yearling Indian Runner ducks, Faun, also Penciled. Some winners. R. O. Dickson, Box 30, La Harpe, Illinois.

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

THE PREVENTION OF POULTRY DISEASES.

To the Editor of The Homestead:

It is a noteworthy fact that in the first few years' experience of the beginner he has more sickness among his fowls to contend with than he has in after years. Why is it? Inexperience. The way to prevent diseases is to carefully look after everything that is likely to cause illness, as for instance: Improperly ventilated houses, improper feeding, improper care. These three mistakes cover a multitude of neglects and carelessness; they form a part of each man's experience.

Ventilation of houses is a matter that should be studied carefully, a too-close house, a drafty house, and a filthy house are one and the same thing when it comes to the sanitary question. Fowls want pure, fresh air, but they cannot stand a draft over them while roosting. For summer the best house is the one with a solid back wall, good roof, and good sides, but with an open front. The air must be pure, but it can never be so if the quarters are allowed to become filthy. Clean up the droppings every morning if you possibly can, and once a week examine the entire building for cracks in the walls or leaks in the roof. We are opposed to allowing fowls to roost outdoors, either during the summer or winter, but it would be far better to allow them to do so than compel them to pass the night in a foul, ill-ventilated pen.

It is just as bad to have a too-close house in winter. Some beginners, through pure kindness, have their hen house so tight that there is not a possible chance to get a breath of air in it. The result is, the fowls huddle together and start sweating during the night. The next morning they are allowed to run out in the cold air, and the outcome is a cold. This is especially true when the flocks are overcrowded.

The introduction of the scratching-shed house has done wonders in correcting this bad practice. Each pen is divided into two rooms—a small one for roosting and a large one for scratching purposes. The door between the two rooms is left open at night. The front of the scratching shed being muslin, there is plenty of fresh air admitted, and consequently less trouble with colds. These colds are only slight troubles at first, but they gradually develop into something more serious, generally ending with roup. You can cure the slight colds, but never can you eradicate roup from the system of the fowls that have contracted it.

Poor houses have caused more illness than has anything else.

Improper feeding is also a cause for considerable complaint. Too much corn has been a curse rather than a help to the poultry bill of fare, and yet a certain amount is needed in the menu. But it must be given with more discretion. It is a heating and fattening food, and should never be the main article of diet. It should not be fed alone, but always in connection with wheat or oats. Corn, wheat and oats—with their by-products, cornmeal, bran middlings and ground oats—together with green, bulky food, as cut clover hay, or vegetables; and green cut bone or meat scraps should be about the variety that should be given. An all-grain diet is a mistake, and will lead on to indigestion or "cholera." We quote that word "cholera," because we firmly believe that it is a disease that gets entirely too much blame. Nine-tenths of the reported cases of cholera are nothing more or less than indigestion, apoplexy, liver troubles, etc., all due to an exclusive grain diet. Overfeeding, too, has a tendency to develop the same diseases.

There should be a mash fed once a day. We prefer to give it in the morning, especially during the winter, as it digests too quickly, leaving the crop empty before morning, when given at night. But the mash must not be in a sloppy state.

Fowls should be kept in an active condition, and be made to scratch for their whole grain meal. This exercise aids digestion. They should also be fed regularly—at certain hours of the day.

As to proper care, we will briefly enumerate; perfect cleanliness, freedom from lice, removal of ailing fowls from the well ones, pure food, fresh water, clean drinking vessels, exercise, small flocks, comfortable quarters, and everything that will keep the bright red color to the head, and the active, busy gait to the body.

There must be a constant watch over the flocks. Not a day should be passed without at least a glance at the stock to see if all are in condition. The eye soon learns to detect the slightest ailment. When a hen is listless we know that she is "out of sorts"—her food does not properly digest. She needs attention. So also in cases of diarrhea, or paleness of comb, or lameness, etc. Keep a watch.

Michael K. Boyer.

More About Germozone

I know a man who bought a profitable poultry farm with two thousand healthy, laying hens and lost sixteen hundred of them within three months. I know another man who bought a 2,500 hen farm, producing regularly 100 dozen eggs a day, and within sixty days his egg production had dropped to 8 dozen per day and over 200 hens had died.

It's easy to keep a healthy hen healthy and it's easy to keep a laying hen laying, but its ruinous to wait until they become sick or until they quit laying before taking preventive measures.

On both of the above mentioned farms the chickens had been getting **Germozone** regularly twice a week in the drinking water and **Lee's Egg Maker** daily in the food. The new owners "did not believe in feeding medicine to healthy chickens," and had their own notions about feeding, not realizing that the previous owners had put in many years in finding out exactly what gave the best results.

One cannot well disinfect the floors, yards, and scratching litter every day, but one can, by use of **Germozone** in the drinking water, produce an antiseptic condition of both food and drink and also of mouth, throat, crop and bowels. **Germozone** is also the best remedy for **Roup, Colds, Swelled Head, Chicken Pox, Bowel Complaint, Cholera, etc.**

On our own farm, we would as soon think of omitting food as to omit the **Germozone** water all day on Wednesdays and Sundays.

LARGE 12 OZ. BOTTLES 50c. NEW SIZE, ONE GAL. CANS FOR LARGE CONSUMERS AT $3.00 EACH, EQUAL TO ELEVEN BOTTLES. (Express paid for $3.50.) Sold by more than 10,000 dealers in the United States.

GEO. H. LEE CO., Omaha, Nebraska, or Los Angeles, California

Six Grape Vines Free

HOW would you like to have a start of the best and heaviest bearing varieties of black, red and white grapes? I have six vines (three black, two white and one red) to give to any one who answers this advertisement during September.

They are year-old stock, perfectly rooted and guaranteed to be in growing condition when they reach my readers.

These Vines Consist of:

Campbell's Early—This is a very popular and productive variety. The fruit is black and of fine quality and flavor.

Moore's Early—Is very popular because it ripens early. The bunch is medium size, compact and uniform in shape. The berries are large and quality is good.

The Worden—Acknowledged to be the best black grape ever created. The berry is large, black with thin skin. The flavor is fine, rich and very sweet.

The Niagara—This is a white grape noted for its large long bunches of excellent well flavored fruit. It bears heavily and regularly. Its quality is the highest.

The Diamond—This grape has a long, compact bunch with a round, greenish white berry. The flesh of the fruit is vinous, juicy and pleasantly flavored.

The Brighton—This grape when ripe is a dark crimson or brownish red. The bunch is set with large, compact berries. The flesh is rich, sweet and refreshing, being tenderest in the center.

You can set out these vines yet this fall—any time before November 1st.

This Is My Offer: Send me one dollar for one year's subscription to The Homestead and I will send you these six grape vines prepaid absolutely free of charge.

This offer is good only till October 1st. To insure getting these six vines you should send your order in today. Don't let this opportunity slip. You will never get another one like it. Use the coupon below and address all orders to

James M. Pierce, Publisher Homestead, Des Moines, Iowa

USE THIS COUPON

Date 1913

James M. Pierce, Pub. The Homestead, Des Moines, Iowa.

Dear Sir:—Enclosed find $1.00 for one year's subscription to The Homestead. You are to send me postpaid free of charge your six grape vines as advertised.

My name is.....

Postoffice .....

Rural Route .....State.....

AGENTS WANTED.

LIVE agents are making $10.00 to $20.00 every day selling the famous "LIBERTY" Fire Extinguishers, the most sure protection of home and property. The demand is steadily increasing everywhere. Of greatest importance to every farmer and automobile owner. Everybody buys on sight. Any man or woman can sell "LIBERTY" Fire Extinguishers. Write today.
LIBERTY MFG. ASSOCIATION 30 West Lake Street, CHICAGO, ILLINOIS.

CANDY Learn the **Candy Business** by mail. We teach you to make all high-class candies. Twelve weeks' course. **Kansas City Correspondence School of Candy Making, Dept. F, P. O. Box 745, Kansas City, Mo.**

MINORCAS.

FOR SALE—Thoroughbred S. C. Black Minorca cockerels and pullets. Bred from best of layers and large improved stock, $1 each. Lewis Tieden, Elkader, Ia.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96½ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa

CHOICE Pure-bred Reds (either comb) yearling hens, ckls., pullets, price $1 each. Indian Runner ducks $1.50. Mrs. Laun, Riverdale Farm, Floyd, Ia.

LANDS AND HOMES

OHIO FARM FOR SALE

LAKEVIEW farm of 167 acres, located in Fairfield county, twenty-eight miles east of Columbus, the Capital of the State. All black land—well adapted to raising corn and general farming. Farm is leased for gas, having one very strong producing well, which affords free gas for the farmhouse beside an annual revenue. Will sell with farm, crops and implements and a fine span of young Percheron mares. Price $150.00 per acre including gas lease. Correspondence solicited from interested parties.

OSCAR BAKER, Owner, 204 Lincoln Ave., Delaware, Ohio

Land Opportunity

is for the man who carefully investigates before he buys. There are many large and small tracts of good land along the Union Pacific System Lines. Your land opportunity is among them. I will give you free authentic information concerning any of these tracts if you will write to me.
It will pay you to investigate before you move.

R. A. SMITH,

Colonization and Industrial Agent, Union Pacific Railroad Co., Room 1186, Union Pacific Building.

OMAHA, NEBRASKA.

RED RIVER VALLEY Improved Farm 324 acres. Grand Forks Co., 25 miles from Grand Forks City. One-half mile from Ardock. On Great Northern Ry. and Soo line, five elevators, good live town, all plowed. But 20 acres in pasture. 50 acres will be seeded Sept. 1st to Rye, Seed Wheat, Barley and Oats will be on place, all included for $55.00 per acre. No commission to agents. Will deal direct with purchaser. Good buildings and good tenant with five-year lease, but must vacate if desired. Have other business in Minneapolis and will give good terms to right party. Address owner, 312 Erie St., Minneapolis, Minn.

80 ACRES Union county, $125 per acre, 7-room house, barn 32x40, milk house, double corn crib, well and windmill, every acre tillable; good orchard, 5½ miles from town; would consider used auto as part pay, balance reasonable terms. 195 acres in north part of Wayne county, 2½ miles from new town on Rock Island, 5-room house, barn, windmill and well, corn crib and milk shed for $87.50, reasonable terms. E. E. Girton, owner, Des Moines, Iowa.

FOR SALE

200 ACRES of good, well improved, Shelby county land, for sale at a bargain if taken at once. Would accept small herd of any good breed of cattle as part payment, if desired. Write for particulars. Address
BANK OF IRWIN - - - IRWIN, IOWA

FOR SALE for sixty days only, one of the best 200-acre corn and stock farms in Fayette county, Ia., good land, water, location, improvements. Price $27,000. Terms one-third, or more, cash; balance time to suit, interest at 5½%. A money maker for right man. Ref. State Bank or Fayette of First Nat'l Bank, Fayette, Ia. V.E. Strayer, Owner, Fayette, Ia.

SOME REAL BARGAINS

60 GOOD improved farms and 40,000 acres of splendid clay loam land in Millelacs county; only 60 miles from St. Paul and Minneapolis on two good railroads. Prices from $15 per acre upward, easy terms and long time. Oscar Dueholm, Boardman Hotel, St. Paul, Minnesota.

CHOICE HOMESTEADS LOCATED IN BELTRAMI CO. Also real estate bargains on the best soil in the state from $5 to $25 an acre. Beautiful river front locations. Lots of fish and big and small game. Best of references. For further particulars write William Rulien, Baudette, Minnesota.

FOR SALE Good 350-acre stock, grain and blue grass farm, north central Missouri, best farming part of state. Two sets good improvements, no trade but reasonable price. Address Owner 450, care of The Iowa Homestead.

100 CHOICE FARMS in the garden spot of Southern Minnesota, where corn is king. Price $60 per acre and up. Prices advancing rapidly. Come now. Free list. The Paffrath-Schmid Company, Springfield, Minn.

CAN FURNISH retired business men, clerks, bookkeepers and others fine farms, 5 acres and up to 1,000, near railway stations and good markets, cheaply and on easy payments. Write for particulars to Stephenson Land & Lumber Co., Oconto, Wis.

SOUTHERN MINNESOTA CORN LANDS GROWS any grain Iowa farmer grows. Improved land $65 to $125 per acre. Address
McCadden & Allison, Fairmont, Minnesota

SOUTHEASTERN KANSAS IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

GREAT mixed farming opportunities in Saskatchewan, Canada. Buy **improved** farms **direct** from the farm **owners, thus** save $2 to $5 an acre. Write today to Delbert Henkes, Canora, Saskatchewan, Canada.

WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalogs. Address **Hall's Farm Agency, Owego, Tioga Co., New York.**

OWNER WILL SACRIFICE IMPROVED 200 acre farm in Kitton Co., Minn. $2,000 cash, $2,000 mortgage, four years 6 per cent, buys it. Come at once. Fremont S. Gibson, Charles City, Iowa.

Sacrifice Sale---160 acres improved Central, Wis., farm. Rich, sandy loam, near town, $3,000, actual value $4,000. E. G. Fuller, Brillion, Wis.

Come Now and See Our New York Farms

THEY cost half you pay for western farms; they are all improved, ready for the general farmer, stock grower and dairyman; the land is better and crops larger than most western farms; they are nearer market with higher prices for all products. There are better roads, more schools and churches, more good neighbors. Are the best farms anywhere and lowest priced. Come see for yourself. McBurney & Co., 309 Bastable Block, Syracuse, N. Y.

POULTRY or TRUCK FARM

30 ACRES 3 miles north of Des Moines, 5 acres fenced for poultry with 18 houses, water piped to houses, shade in all runs, good barn and corn crib. Modern 10-room house, cistern in kitchen, steam heat, bath and toilet. Good orchard and small fruit. Two blocks from school, church and store. Price ten thousand dollars, easy terms. Will sell complete farm equipment with place. This farm has been a profitable one and owner is retiring from business. Address
FRANK FOY, 905 15th ST., DES MOINES, IA.

BUY FROM OWNERS

I HAVE several improved farms in the famous Red River Valley, close to towns, schools and creameries. Will sell these farms at low price, long time, easy terms. Will furnish all the milch cows and hogs that can be handled on these farms, and let you pay for same from proceeds. Five hundred dollars will handle 160 acres. **Look This Up, Mr. Renter,** also wild lands in Wisconsin and Minnesota.
LAKE STATES LAND CO., S. D. Works, Mgr., Improved Land Dept., 405-6 Commerce Bldg., St. Paul, Minnesota.

NOW IS THE TIME

TO PURCHASE LANDS IN SOUTHERN MINNESOTA. Send for our price list of our fine improved southern Minnesota corn lands. Come and see what we can do in raising corn and small grain. You will be infatuated. **New Richland Land & Loan Co., New Richland, Minn.**

FOR SALE

STOCK and dairy farm, silo, etc., furnace and bath room in house, modern and complete, 180 acres, one mile from city of Albert Lea, Minn., 7,000 inhabitants, 12 miles from Iowa line, 5 railroads. Owner has moved away. Bargain. Come and see it.
LOREN G. BLACKMER, Water St., ALBERT LEA, MINN.

IOWA FARMS

WRITE for my large 1913 list of South Central Iowa farms, all sizes, abundance of fruit and water, good terms. The cheapest good land in Iowa today is in Madison, Union and Clarke counties. Address
J. G. SHRIVER - - WINTERSET, IOWA

FORCED SALE

400 ACRES, grain and stock farm, 3 miles from good town of 1,000 people in eastern Kansas. Small improvements, good land, well watered, well located. Owner forced to sell in next 60 days. Price $40 per acre, easy terms. Owner, L. B. 367, Iola, Kan.

FOR SALE

NICE Eastern Kansas farm. 148 acres near town; lies level; raise corn, wheat and small grain. Large house, barn and outbuildings. For a short time will offer this farm at the low price of $65.00 per acre. Terms.
RICE-DANIEL LAND CO., GARNETT, KAN.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

FOR SALE OR EXCHANGE---217 acre imp. farm, Coffee Co., Kan. No waste land; most all level and tillable; good water; some timber. Priced right; will take good eighty. R. H. Feusner, owner, R. 3, LeRoy, Kansas.

FOR SALE Eastern North Dakota, slightly rolling quarter section, no improvements. One mile from county seat, black soil; town has five elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Avenue, Peoria, Illinois.

IOWA FARMS---**Write today** for our Special Farm Bargain List. Farms of all sizes for sale, and the cheapest **good** land in Iowa. **SEE** these before buying; we can suit you.
E. E. McCALL - - WINTERSET, IOWA

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

FOR SALE First-class farm, 113 acres, 3 miles from county seat in Mahaska county, Iowa. Rich, black corn land. Write S. M. Herron, Oskaloosa, Iowa.

FOR BARGAINS in real estate for sale or exchange anywhere, address Sewell Land Company, Garnett, Kansas.

KANSAS FARMS AND RANCHES FOR SALE $80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

IMPROVED 120 acre farm, one mile from Bagley, Minnesota. $18.00 an acre. Exceptional opportunity. H. G. Faide, Carlisle, Iowa.

WE sell Oceana farms. Greatest fruit Co. Also grain, potatoes, alfalfa, dairying. List, etc., free. J. D. S. Hanson & Son, Hart, Michigan.

ADDITIONAL FIELD NOTES.

A big advertisement of Philipsborn's fall fashion book will be found on page 24 of this paper. The book is an authority on fall styles of women's clothing and dress goods. It also catalogs various sorts of clothing such as coats, furs, suits, skirts, etc., and at prices which most effectively save money to the buyer. For copy of the book or other information write to Philipsborn, Dept. 30, Van Buren and Peoria streets, Chicago, Ill.

The picture in the big Kalamazoo stove advertisement on page 40 gives a hint of the comfort that comes from a Kalamazoo Radiant base burner in a farm home and the time to obtain one is now. The Kalamazoo people make also ranges and furnaces suitable for every purpose. They sell them cheaply, in fact letting them go to our readers at factory prices and prepaying freight charges. In order to be prepared to order intelligently a copy of their descriptive catalog and price list should be obtained. Fill out the coupon in the advertisement and forward it to Kalamazoo Stove Company, Kalamazoo, Mich., asking for catalog No. 165.

Rob Schug's Immune Boars.

If you want to buy a good Poland China boar, one that is bred right and one that is cholera immune, then write R. A. Schug, Coleridge, Neb. He offers thirty head of good boars for sale, all of which have been treated with the simultaneous method and are ready to ship. Five of these are sired by his old champion boar, King Mastiff. Some are sired by Great Columbus, Nebraska Model, Big Kind and Farver's Goliath. Rob is certainly offering some good boars for sale this year. When writing him kindly mention The Homestead.

Wood & Wescott's Hampshires.

Wood & Wescott, Sheffield, Ill., are advertising fall and spring Hampshire boars of the best of breeding and nicely marked, on page 31. The fall boars are sired by Tom Boy 8875, and he is from the same litter as Sharp & Sons' great boar, Mike, and W. J. Brinigar's King James. The spring boars are sired by a brother to Captain Porter 8873 and Rival Lad, a hog bred by Hughes Atkinson. This firm has the right kind of Hampshires and does business on the square. They will be glad to hear from any of our readers wanting good Hampshires. When writing them kindly mention The Homestead.

Never Mind the Cry About Hog Cholera.

Get your hogs in good condition, free from worms and in perfect thrift and you will go a long ways toward preventing later losses, and the way to do all this is fully outlined in the Sal Vet advertisement on page 19 of this paper. The Sal Vet people have great confidence in the preparation. They are willing to send it in quantities to suit the purposes of any stock raiser, on free trial and prepay freight charges. It is worth while to take advantage of this offer because the preparation is certain to do just what the manufacturers say it will. Just fill out the coupon in the advertisement and forward it to the S. R. Feil Company, Dept. I. H., Cleveland, Ohio.

A Pocket Calculator Free.

Through the liberality of the Keystone Steel & Wire Co. any of our readers may obtain a copy of Ropp's New Calculator, a book which saves hours of work in arriving at correct amounts in all kinds of figuring. If a load of corn be sold at a given price you have merely to turn to a page in this book and learn exactly the amount of money it will bring. Any other kind of figuring is done in the same way and with absolute accuracy. The book sells for fifty cents, but for a limited time readers of this paper may procure it by sending a request, mentioning this paper, to the Keystone Steel & Wire Co., 528 Industrial St., Peoria, Ill., whose advertisement of Square Deal Fence will be found on page 7.

Walker & Son's Noted Polands.

Few herds of Poland Chinas are so well and so favorably known throughout the country as is the herd owned by Thos. F. Walker & Sons, Alexandria, Neb. This is one of the truly great herds of the country, inasmuch as it has really been built by the efforts of one that has had an idea of what he wanted, and then sought to get it. Mr. Walker has not made the Blue Valley herd by buying from everyone that laid claim to good hogs, but on the other hand, has built this herd to a very great extent from selections made in his own herd. Some hogs have been bought and retained, others have been purchased and found wanting and discarded. One thing is certain, those that have bought from this herd have found that their boars have produced a type that was fixed and the sows have farrowed pigs all of a kind. There has been no guessing how they would work with Walker & Sons, they planned the matings so that they know almost to a certainty. Boars of this sort should possess great value to the man who cares, to the man that wants the better kind. If in search of a herd header, write as above and mention The Homestead. See page 37.

Steele's Immune Duroc Boars.

On page 31 we begin the Duroc Jersey advertisement of C. R. & R. W. Steele, Ireton, Iowa, who are offering sixty head of immune fall and spring boars for sale. The senior member of the firm is Chas. Steele, formerly known as one of the best breeders of Shorthorn cattle in northwest Iowa. These gentlemen showed spring boars at the Interstate Fair at Sioux City last week and secured first prize on their under-six-months boar and this is the first time they ever came out with a herd of hogs. The major portion of these boars they are offering are sired by a son of Carl's Col., a boar they purchased at the Shade sale and he was the highest priced spring boar in that sale. We have seen some of the boars they are offering for sale and they are all right. They are pricing these at from $35 to $50 and will ship on approval. You will not go wrong if you send Chas. Steele an order for a boar. Mention The Homestead when writing the above firm.

Rickey's Duroc Jersey Sale.

W. C. Rickey & Son, Thornburg, Iowa, will hold their first annual sale of Duroc Jerseys, September 29th. Fifty head have been cataloged for this occasion. There will be five fall boars of December farrow sired by Bruce and out of a dam by Crimson Wonder Chief. There will be two September yearling boars sired by H. A. Orion and out of an Iowa Col. sow. The remainder of the offering will be of spring farrow. A large number of them are sired by Chief Select 2d, an excellent son of Chief Select, and Willetta 14th by Tippy Col. This young boar has proven an excellent sire as his get will show sale day. Others are sired by A Chief 2d by A Chief Defender by Defender, and still a few more by High Col. 2d, by High Col. by Freed's Col. There is a litter sired by Chief Select 2d and out of Defender Lady by Defender that are extra good. Write Messrs. Rickey for a catalog at once and if you cannot attend their sale send a bid to Carlos C. Palmer, Homestead representative, in their care.

Naiman Still Offering Bargains.

John L. Naiman, Alexandria, Neb., is still offering readers of this paper rare bargains in high-class Poland Chinas. Mr. Naiman has raised the best crop of spring pigs that he has ever raised, and owing to the short corn crop in his section these pigs are absolutely on the bargain counter. We do not mean that Mr. Naiman will take pork prices for these hogs, for if he were to do that he had better sell them on the pork market, but we do mean that he will sell these spring boars at about 40 per cent less than they are really worth and what he should have for them. It costs more to raise a crop of boars than a crop of barrows and a very small profit above the cost of production is all that Mr. Naiman asks. Most of the boars are sired by Naiman's Expansion, a son of Expansion Over, the St. Joseph champion. Mr. Naiman also has a big crop of fall pigs, and they will be sold

BIG-TYPE POLAND CHINA PIGS.

The above engraving shows some fine spring boars offered for sale by John I. Dripps, Springville, Iowa. They are big, smooth and have plenty of bone. See his advertisement on page 36.

Nebraska Land Bargain.

In an advertisement on page 22 the Woods Investment Company puts forward the principal facts with relation to a 600-acre farm, which they have for sale. The land is located in the

BARGAIN --IN-- Nebraska Corn Land

$4,000 DOWN and time on the balance at 5% interest will buy a 600-acre farm, we have for sale in the North Platte Country, Nebraska. It joins a railroad right-of-way, is near beet dump, has good house, barn and improvements. 100 acres in corn this year will go 30 to 40 bushels. 35 acres in alfalfa has produced three crops. Subject to irrigation. Price $40 per acre. The soil is exceptionally good and this is a rare bargain. Address
WOODS INVESTMENT CO.,
LINCOLN - - - NEBRASKA

Farm Auction

115 ACRE FARM, VAN BUREN COUNTY

Tuesday, September 30

NEAR Stockport, 11 miles from Fairfield. Seven room house, two good barns, corn crib, granary, silo, young orchard and small fruit. All land in high state of cultivation. Will positively be sold to highest bidder to settle estate.
A. L. STOUT - STOCKPORT, IOWA

North Platte country, which through the irrigation development of the last few years has become the most productive and most certain of Nebraska land. Crops of all sorts have been remarkably large and the prospects of an advance of land values are exceedingly flattering. The entire 600 acres is subject to irrigation, and when so improved it cannot fail to become a veritable garden spot, with a value not equaled by land in any section. Note that liberal terms are quoted and that the original price is only $40 per acre. For additional particulars write the Woods Investment Co., Lincoln, Neb.

Gruis Offers Immune Boars.

At the Sioux City Interstate Fair last week H. Gruis, George, Iowa, showed that splendid senior yearling Duroc Jersey boar, A Wonder Jr., and won first on him in a strong show and he was one of the greatest boars on the ground. Mr. Gruis has fifty head of boars, a great many of which are sired by the above hog, and every one of these have been vaccinated by the double treatment and are immune and ready to ship. He is pricing these at $25 and $30. Write your order to him at once and mention The Homestead. See page 31.

Wilson Offers Choice Short-horns.

Irvin E. Wilson, Belvidere, Neb., is offering at present some very choice yearling Short-horn bulls. These bulls are pure red and are sired by the great Scotch bull, Secret Hero, that actually weighed in breeding condition 2,200 pounds and is now at the head of the good herd owned by North & Robinson, Bridgeport, Neb. These young bulls are from excellent cows, as that is the only kind Mr. Wilson keeps. Mr. Wilson is the secretary of the Nebraska Short-horn Breeders' Association and is one of the most enthusiastic stockmen of the country. These bulls are good and priced worth the money. We would urge that Homestead readers write Mr. Wilson at once and when doing so, kindly mention this paper. See page 36.

Zelmer's Duroc Jersey Sale.

On Saturday, October 4th, at Atlantic, Iowa, Z. A. Zelmer will make a public sale of fifty head of Duroc Jersey boars and sows. It will be an immune sale as everything he sells will have been vaccinated and will be cholera proof. He has taken the precautions to do this early in the game and he believes that the breeders want them that way. He is listing twenty-seven boars and twenty-three sows and he will have a good offering. He will sell seven fall boars and these are sired by King Carlos, a grandson of old Ohio Chief; also a few by Fancy Col. 2d. There are some splendid fall boars among these and some that will make good herd boars. They are well grown, large, rugged fellows and are the kind that breeders and farmers are looking for. The twenty spring boars that he will sell will be sired by his present herd boar, Cedar Grove Chief and Col. Lafollette. Two of the best fall boars that he will sell are out of Cedar Grove Lass, a daughter of Golden Model Again. He will offer five good fall sows that are full sisters to the fall boars that he will sell in the sale. He will also sell sixteen head of his best spring gilts and these will be sired by Cedar Grove Chief and King Carlos. He will also sell two yearling tried sows, both sired by Louis' Gem and out of Gem's Model. One of these will be bred and the other will be sold open. The sale will be held right in town in the Swab's Feed Yard where it will be convenient to everybody. Write for his catalog and mention The Homestead. M. T. White will represent The Homestead at the sale. See page 30.

Tyrrell's Short-horn Sale.

G. P. Tyrrell, Oxford Junction, Iowa, held his Short-horn sale on September 19th, as previously advertised in this paper. It was very satisfactory to the seller and buyers received full values. There was a large crowd in attendance and there was a strong demand for both bulls and females. A report of the sale shows that the buyers were largely younger breeders, which indicates a healthy tone in the trade. A. W. Dixon, Cambridge, Ill., topped the female offering in the excellent cow, Lady White Stocking at $205. He bought several other high-class females. Prince Wayside was the top animal of the sale, selling for $300 to C. B. Kline, Olan, Iowa, and he was cheap at that figure. W. H. Webb, Spencer, Iowa, secured a good bull in Roan Chief at $235. Col. H. S. Duncan assisted by G. H. Burge and Wm. Brock sold the offering in a satisfactory manner. A list of those selling for $100 and above is appended.

BULLS.

Prince Wayside, calved 1910; C. B. Kline, Olin, Iowa	$300
Roan Chief, calved 1912; W. H. Webb, Spencer, Iowa	235
Lavender Chief, calved 1912; Mr. Martin, Cascade, Iowa	140
Oxford, calved 1912; J. R. Ballard, Boone, Iowa	200
Grand Duke, calved 1912; B. Hanson, Wyoming, Iowa	115
Baron Montrath, calved 1911; H. Brodersen, Wyoming, Iowa	120
Julius, calved 1912; Wm. Schroder, Clarence, Iowa	145
Ramoler, calved 1912; P. Broderson	140

FEMALES.

Loretta 2d and b. c., calved 1910; W. B. Lathrop, Oxford Junction, Iowa	185
Minta, calved 1904; W. B. Lathrop	150
Grace, calved 1911; H. A. Harr, Mechanicsville, Iowa	185
Geraldine 2d, calved 1909; W. L. Van Dusen, Anamosa, Iowa	190
Lady White Stocking, calved 1906; A. W. Dixon, Cambridge, Ill.	205
Loretta, calved 1907; Joe Kuhavy, Oxford Junction, Iowa	150
Amelia 7th, calved 1909; J. H. Panuska, Monmouth, Iowa	200
Fern 3d, calved 1910; W. L. Van Dusen	155
Bess, calved 1909; Henry Elchorn, Wyoming, Iowa	150
Ruth, calved 1907; H. A. Harr	180
Garnet, calved 1909; H. J. Stutt, Monticello, Iowa	180
Rosalie 6th, calved 1910; J. J. Houver, Mt. Vernon, Iowa	170
Lavanche 2d, calved 1909; W. L. Van Dusen	200
Choice Maid 2d, calved 1911; W. H. Webb	170
Susie 3d, calved 1910; H. A. Harr	135
Rosalie 5th, calved 1909; A. W. Dixon	195
Nellie 2d, calved 1907; Claus Elhert, Bennett, Iowa	140
Dollie 6th, calved 1909; H. J. Stutt	135
Nerissa, calved 1908; A. W. Dixon	130
Daisy, calved 1910; H. A. Harr	165
Gertrude, calved 1908; W. L. Van Dusen	160
Alice, calved 1909; W. L. Van Dusen	150
Florence 3d, calved 1910; L. P. Duer, Charlotte, Iowa	120
Miss Wild Eyes 3d, calved 1908; W. A. Emerson, Massillon, Iowa	110
Olive 3d, calved 1910; L. P. Duer	125
Blossom, calved 1908; A. W. Dixon	160
Cherry, calved 1911; A. W. Dixon	140
Red Cherry, calved 1911; A. W. Dixon	135
Lucy Dear, calved 1911; Chas. Walworth, Onslow, Iowa	140
Anna, calved 1911; E. G. McDonald, Onslow, Iowa	130
Autumn Queen, calved 1911; A. W. Dixon	110
Loretta 3d, calved 1911; W. B. Lathrop	155
Helen, calved 1911; Chas. Walworth	145
Mildred, calved 1908; O. E. Christopherson, Clarence, Iowa	130
Miss Wild Eyes 5th, calved 1911; C. A. James, Onslow, Iowa	100

SUMMARY.

11 bulls	$1,685; average	$152
35 female	5,330; average	152
46 cattle	6,985; average	152

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending September 21, 1913:

The past week was cooler than usual, the average daily deficiency in temperature being about 4 degrees, and the week closes with a cool wave which will probably result in light to heavy frost tonight. Light to copious showers occurred on several days, and while there has not been enough moisture to effectually break the drouth or increase the water supply, the ground has been softened and much plowing and seeding of winter wheat has been done. Pastures and meadows have been greatly improved and in some sections late potatoes have been benefited. Potatoes will, however, yield only about 50 per cent of a normal crop. The bulk of the corn is now beyond danger of injury by frost, and practically all of it will be matured by the close of the month. Probably a little more than the usual amount of corn has been put in shock, and the amount cut for ensilage is much greater than ever before. Reports received Monday morning, September 22d, show that freezing temperatures occurred in all parts of the state, the lowest reported being 21 degrees at Sibley, Osceola county. This will be the last issue of the bulletin for this season.

Geo. M. Chappel, Sec. Dir.

SEEDS WANTED

THE past season we have bought Timothy, Clover, Alsyke and Mixed Timothy and Alsyke from hundreds of farmers in Iowa and surrounding states. Sample packet free. Will make you offer by return mail delivered at your station. Get our bid before selling. Write today.

THE ADAMS SEED COMPANY
Box 61 Decorah, Iowa

SHEEP.

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FORTY GOOD

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK, BELMOND, IA.

RAMBOUILLET SHEEP Choice rams and ewes for sale. Prize-winning stock and excellent blood lines. Address at once C. S. Bratt, Arapahoe, Nebraska.

RAMS, LINCOLNS, Registered yearlings $25.00 B. F. Clark, Albia, Iowa.

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

For Sale Cheap-- Big Registered Shropshire Rams. C. F. Chandler, Kellerton, Iowa.

SHROPSHIRES 20 recorded rams and 50 ewes for sale, at reasonable prices. A. T. Guthrie - - - - - Newton, Iowa

METALLIC CARTRIDGES

Made by the Foremost Ammunition Concern in America

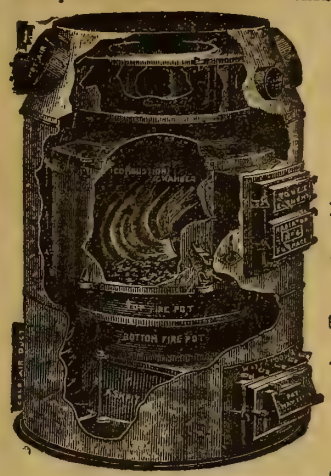
THE biggest name in the ammunition and firearms world today is *Remington-UMC*. Whether your arm is a Remington or any other standard make, whatever its calibre and the load you need, you want Remington-UMC metallics—not because they are necessarily stamped with the same name as your firearm, but because they give more accurate results.

This Company has been making ammunition for fifty years. We produce metallics for every standard make of arm—and every Remington-UMC cartridge is tested in the arm for which it is made.

There is a dealer in this community who can give you Remington-UMC Metallics for *your* rifle, *your* pistol. Find him. Ask him for them. Look for the Red Ball Mark on every box of metallics and shot shells you buy.

Remington Arms-Union Metallic Cartridge Co.
299 Broadway 2 New York

BUY BOVEE FURNACES at MANUFACTURERS' PRICES



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Save from $30.00 to $50.00 Commission.

The MOST PERFECT manufactured.
SAVES about 40 Per Cent of FUEL.
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Fully Guaranteed.
Replace your old Furnace or Stoves.
Install a Complete Heating Plant.
The BOVEE Furnace requires LESS FUEL THAN STOVES OR OTHER FURNACES.
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Send pencil sketch of floor plan of your building for FREE PLAN and Specifications.
Easy to install—shipped cut to fit with full directions—no tinner required.
Write us for full information special offer. Address

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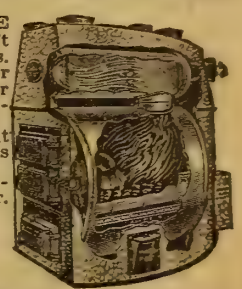
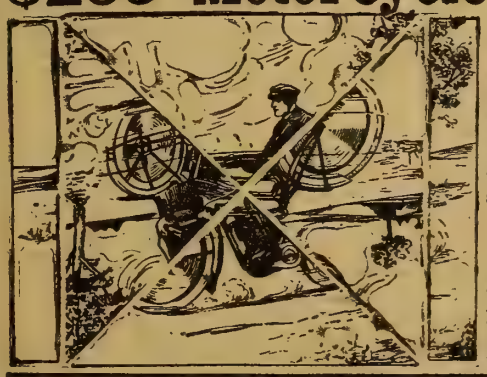
Waterloo - - Iowa


Horizontal Furnace

$285 Motorcycle Given Away



Here is your chance to get a $285 Harley Davidson Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the two cylinder eight-horsepower Harley Davidson Motorcycle—the best made.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Sec'y Popular Company
400 Popular Bldg. Des Moines, Iowa

SHEEP.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - LOGAN, IOWA

SHROPSHIRE RAMS AND EWES

YEARLING, two-year-old and three-year-old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

FOREST HILL STOCK FARM

OFFERS at bargain prices, Shropshires, both sexes of all ages, quality and breeding good. Will price ewes in lots at prices to suit all. Call or write
KAUFMANN BROS., R. 1, MOSCOW, IA.

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. William Miller, R. 2, Anita, Iowa.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. 11 choice yearling rams, 1 two-year-old ram, and some ram lambs. They are heavy boned and well wooled. Low prices to close out. I am about sold out of ewes.
EARL BLOOM - BRIDGEWATER, IOWA

Registered Oxfords

AND Shropshire yearling rams and ram lambs of the best of breeding. Priced right. Write or come.
W. H. HUNT & SON - GALT, ILL.

I SHIP C. O. D.

FOR distance of 100 miles choice registered Shropshire yearling rams at $12.50 per head. Address
GLEN F. RIDER - FARMINGTON, IOWA

Write For FREE Copy PHILIPSBORN'S Fall Fashion Book

Won't You Spend One Penny to Secure the New Philipsborn Style Book, filled with the choicest, loveliest, most charming and exclusive, Fall and Winter styles? Won't *you* risk a minute of your time to get acquainted with the big *Philipsborn Catalog* —the book of *thousand savings*? Won't YOU respond to our message and learn how easy it is to save on your clothes' allowance—and still be *one of the best dressed women in your town?*

Philipsborn's New "Two-Acre" Home at Your Service

Our seven story mercantile palace, is ready to serve you better—more quickly—more efficiently than you have ever been served before—

To make your shopping a pleasure instead of a task—

To show you how your money will bring you the greatest real values and genuine satisfaction you have ever known,

Read the Below Range of Prices:

Ladies' and Misses' Coats	$ 4.98 to $20.98
Ladies' Furs	1.00 " 47.50
Ladies' Fur Coats	23.75 " 70.98
Sweaters	.98 " 4.98
Ladies' and Misses' Suits	7.98 " 24.98
Ladies' Hats	.98 " 12.98
Ladies' and Misses' Dresses	3.98 " 22.50
Ladies' Waists	.59 " 6.98
Ladies' and Misses' Skirts	1.98 " 5.98
House Dresses, Kimonos	.75 " 7.50
Petticoats	.98 " 3.98
Girls' and Children's Coats	2.25 " 8.98
Boys' and Young Men's Clothing	2.98 " 9.98

And a great many other departments with equally interesting bargains, a complete specialty store in print.

XA101, $17.50 Guaranteed Seal Plush Coats for $10.98

Nothing to Equal this Value has Ever Been Offered Before. 52 inches long. Lined with seal brown guaranteed satin. Newest shape, faultless workmanship and finish. Sizes 22 to 44 bust. Our Special "New Building" Bargain Price **$10.98**

Misses' Sizes: 14 to 18 years old, 50 inches long. 18 and 20 years old, 52 inches long. Our Special "New Building" Bargain Price **$10.98**

Philipsborn---The Most Liberal House in Existence

Your satisfaction is GUARANTEED or your money refunded and in addition to our low prices and liberal guarantee,

We Prepay Express and Mailing Charges Everywhere

There is a beautiful catalog reserved for you. A Postal Will Bring It Free---This Book of a Thousand Fashions and a Thousand Savings.

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Dept. 30 N.W. Corner Van Buren & Peoria Sts. CHICAGO

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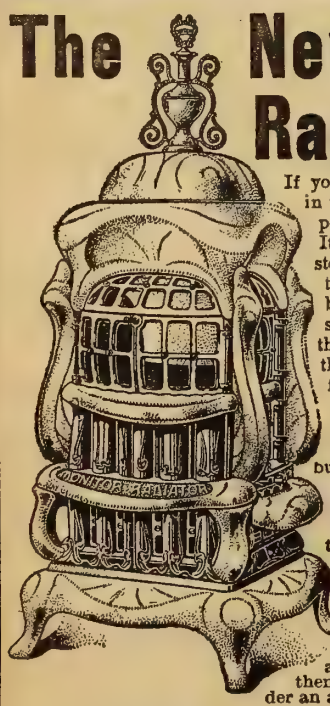

If you want your house really **warm and comfortable** in the severest weather, if you want to get **all the heat** possible out of the fuel you use, get a "MONITOR." It is **different** from all other base burners. Instead of letting the heat go up the chimney, blistering the wall behind the stove on its way out, as old-style base burners do, the "MONITOR" draws the smoke over the front of the fire pot and therefore throws the **most intense heat** directly out into the room. This is chiefly due to the five radiating flues built in the front part which, even in the smallest size "MONITOR," have a radiating capacity of 1,250 square inches. In addition it has **larger back and bottom flues** than any other base burner, and we cheerfully stake our ninety years' reputation on the claim of

More Heat—Less Fuel

than with any base burner ever made. And it has lots of other good points. The fire pot, which is so set in that it **cannot possibly break** from use, can be taken out through the two front doors. The duplex grates can be removed through the ash pit door **without tools.** There are two clean-out doors in the base, one on each side of the stove. All joints in the stove are closely fitted and packed with asbestos stove cement, making them **gas tight.** Every "MONITOR" is sold under an absolute guarantee of

Satisfaction or a New Stove

There are many more good features that we can't possibly mention in this space. Let us tell you about them and prove that the "MONITOR" is the most economical base burner on the market, by letting us send you our **free booklet.** We also manufacture other heaters, as well as the famous "SILVER MONITOR" Ranges, Steel and Cast Ranges. Furnaces, etc., etc.

USE THIS COUPON

Please send me the free booklet about Monitor Radiators.

*Name*_____

*Address*_____

*P. O.*_____ *State* _____

Dealers: If you want a line of stoves that sell themselves, that will please your trade, that give you a reasonable profit, write us at once. Our advertising department will co-operate with you and do everything to boost your business. Warehouses in Minneapolis, Omaha, Cedar Rapids and Milwaukee. We have an office and sample room at 1414 Wabash Ave., Chicago. Prompt shipments guaranteed.

THE MONITOR STOVE & RANGE CO.,
Main Office: 501 East St., Cincinnati, Ohio.

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

John Stuart Mill, a great student of the affairs of men, said, nearly a half century ago, that it was time for the world to discuss more rational distribution of wealth already acquired, rather than to be seeking for means of increasing the production of wealth.

Recently, Governor Osborn, of Michigan, said: "'Our forefathers built up a prosperity that was of necessity material, perhaps sordid. It is now our task to acquire the arts and to pay attention to ethics. It is our duty to let religion escape from the bounds of the four walls, to make it practical and efficient, to turn it into a seven-day affair and to reach the lowly as well as the prosperous."

Among other signs of the times that point out the trend of the better building of human institutions is the report that comes from the meeting of the federal council of the churches of Christ in America. The opinion of this council is that among other things the church must stand for the abolition of child labor, abatement and prevention of poverty, protection of the workers from dangerous machinery, occupational diseases and mortality, and against the hardships of enforced unemployment, compensation for aged and injured workers, the principle of conciliation and arbitration in industrial disputes, the gradual and reasonable reduction in the hours of labor to the lowest practicable point, a living wage as a minimum in every industry, and the highest wage that each industry can afford besides the most equitable division of the product of industry that can ultimately be devised.

There are three steps in the development of a movement for the betterment of general society. First the student, the thinker, working along ideal lines, perceives an injurious condition and in the quiet of his study solves the problem. But only in a general way—he does not attack particular conditions. Next, a man of affairs, in actual touch with life as it is being lived by the mass of the people. He shows the positive condition in which we are placed and points out the definite road along which progress is to be made. Then, we have a great body of men from widely scattered communities, men who are in touch with the daily existence of small groups, and these men declare not merely their individual opinions but are the bearers of the developed thought of the people.

In this attitude of the evangelical churches may be seen a real proclamation of the brotherhood of man as a fact and not a mere theoretical announcement. "The old order passeth."

HOME AND HOMEMAKING.

THE AIM.

O Thou who lovest not alone
The swift success, the instant goal,
But hast a lenient eye to mark
The failures of th' inconstant soul.

Consider not my little worth—
The mean achievement, scamped in act,
The high resolve and low result,
The dream that durst not face the fact.

But count the reach of my desire,
Let this be something in Thy sight—
I have not, in the slothful dark
Forgot the Vision and the Height.

Neither my body nor my soul
To earth's low ease will yield consent.
I praise Thee for my will to strive,
I bless Thy goal of discontent.
—Charles G. D. Roberts.

HOUSEHOLD NOTES.

Alcohol will remove grass stains.

Sour milk makes spongy light cake.

Acid fruits are generally the most suitable for jelly.

Extract of vanilla loses its strength if exposed to the light.

To keep butter, fill a bowl with cold water. Put the butter on a plate and put on top of the bowl, then take a piece of butter muslin and put over the butter and let both ends drop into the water.

Ants seem to have a great dislike for strong odors. Any of the following, sprinkled around the shelves, are an excellent means of keeping the pantry free from these energetic little animals: Oil of pennyroyal, cedar or sassafras, powdered cloves or camphor, tar, wormwood or tansy leaves, or sliced onions. Sulphur, blown around the crevices of the pantry, is also said to be good.

FOR THE COOK.

Green Corn Souffle.—One pint of grated corn (canned corn run through the food chopper may be used), one scant teaspoonful of salt, one and one-half tablespoonfuls of sugar, three tablespoonfuls of soft butter, the well beaten yolks of four eggs. Mix well, then fold in the stiffly whipped whites of the eggs, turn into a buttered pudding dish and bake for thirty to forty minutes. Serve as soon as done, before it falls.

Stuffed Eggplant.—Cut an eggplant in halves, scoop out the flesh, leaving a sufficiently thick rind to hold it in shape. Chop the flesh fine and mix with an equal amount of chopped bread, two tablespoonfuls melted butter, a teaspoonful of salt, a quarter teaspoonful of black pepper and a dash of cayenne. Mix thoroughly and put in the shells. Lay on top of each a thin slice of bacon and bake in a quick oven forty minutes.

Boiled Squash.—Wash and peel the squash and cut into bits. Cover with boiling water and boil for twenty-five minutes, or until tender. Drain in a colander, pressing out all the water, then turn into a wooden bowl and mash as you would potatoes. When smooth whip into the squash with a fork a great spoonful of melted butter and salt and pepper to taste. Put into a saucepan and heat over the fire until you have a light, smoking mass.

Green Tomato Mincemeat.—One peck green tomatoes, five pounds brown sugar, two cups vinegar, two pounds seeded raisins, one tablespoon each of cinnamon, cloves, nutmeg and salt. Chop tomatoes fine, add the salt and let drain over night. In the morning add the other ingredients and cook two hours. Seal in glass jars. Make pies of it the same as other mincemeat. These are excellent.

AMONG OURSELVES.

It is nutting time and it is our good fortune to have for our first number today some lines on nutting written by our friend Mr. Eugene Secor, of Forest City, Ia. Mr. Secor's "Verses For Little Folk and Others" has endeared him to all who are acquainted with the poems. Memory of them insures him a warm welcome Among Ourselves. Before presenting Mr. Secor I take the liberty of telling the friends that a new honor has been conferred upon him. The governor of Iowa has appointed Mr. Secor one of three to prepare a statement bearing on the agricultural needs of Iowa for the use of the American Commission on Agricultural co-operation.

NUTTING.

The hills put on a coat of blue,
When she and I went nutting;
Her eyes, though, wore a darker hue,
On that September outing.
The midday sun beat hot upon
Our heads when unprotected,
But with one parasol for two,
An awning we erected.

The old horse needed little rein;
He knew there was no hurry,
He knew we only sought to leave
Behind all care and worry.
He snipt the fragrant melilot
That grew along the highway,
And waited while we pluck'd the blooms
At every hedge and byway.

Beneath a fragrant walnut tree,
Where squirrels frisk'd and scolded,
We ate our snack and bagged our spoil,
Till the wings of day were folded.
But the dearest treasure I brought home
From that delightful outing,
Was her sweet "Yes"—my chiefest quest,
When I plann'd to go a-nutting.

Nutting is a pastime long dear to the hearts of young people. It needs not to be commended to the lover intent on opportunity to woo the maiden of his choice, but this dainty bit of delicious moments will surely stimulate nutting engagements. If it should moreover stimulate marriage engagements of the right sort no one will be better pleased than Mr. Secor whose heart is young though his hair is graying.

Like Mr. Secor it is some time since Mrs. Old Mother was Among Ourselves, but we do not forget she has kept her place and we greet her with pleasure:

Did I hear some one say, "Where is Mrs. Old Mother?" Lying with three-months-old "Little number nine" asleep on her arm while "Little Brother" aged twenty-one months plays contentedly

with his blocks and cart. Looking from my window I have so often thought of you during the last two years. Lately I have wanted to say how glad I am that I am in "Old Wisconse" and not where it is "always rose time." How much the dwellers in the Land of Flowers—in California and Florida—miss. "My little strip" visible from my window is such a succession of pictures. The first bare ground to be hailed by the little folks. Such fun they had sliding down hill on the crust, such snow families, such flashing, changing, northern lights, such peaceful moonlight, snow covered pictures, and then the first tender green grass, to waken up some morning and find it a cloth of gold. There is a cherry branch stretching out across one corner. How beautiful it is frosty winter mornings, outlined against the blue, blue sky, and then so soon covered with white bloom. Oh, I would never choose to live where it is always rose time. Would you? Books? Not many lately, "I have no time." Have been reading "Treasure Island," with Big Brother and talking it over with him, telling Little Sister the same man wrote it that wrote her "Garden of Verses," and the prayer that hangs in passe partout by the looking-glass. "The day returns and brings us the petty rounds of irritating concerns and duties. Help us to play the man. Help us to perform them with laughter and kind faces. Let cheerfulness abound with industry. Give us to go blithefully on our business all this day, bring us to our resting beds, weary and content and undishonored, and grant us in the end the gift of sleep. Amen." I hope in after years "Treasure Island" will mean more to them than just a pirate story, blood and thunder—"Yo! ho! ho! and a bottle of rum," but bring to their minds the picture of Stevenson, a brave man making a good fight. We read "Hans Brinker or The Silver Skates," and that led to a talk of Holland and "Little Peter whose courage saved the land." "Buffalo Bill" lasted many evenings and we talked and talked of the old pioneer days. They do not really like Alger's books. They say they are all alike, a poor, good boy and a rich, bad boy. Someone giving the poor boy lots of money and the rich boy getting poor. I am glad Big Brother doesn't "take any stock" in them. I think it would be discouraging if he thought there were really boys getting rich so easily and he is expected to "perform cheerfully the petty round of irritating duties" with no reward but his restful bed and sleep. And I am tired—so tired. Many times I have wanted to write to you of the things that are near my heart, but I am too tired, but not too tired to enjoy your discussions.

What a "homey" glimpse of a mother with her babies that is! It is so good when the mother thus lives with the little ones and leads them step by step out into the world of thinking and doing. But it seems too bad the dear mother should be tired, so tired. Some day I fondly hope life will be so that mothers will be less occupied with material things, and being freer from work and worry be freer to perform the more important duties of motherhood.

Mrs. M. L. A. brings with her a recipe for tomato catsup, a hint for preserving dried fruit and also a word regarding the social life of the neighborhood where she resides:

Wash and cut up ripe tomatoes and cook them in a granite kettle without adding water. Add several raw onions, sliced and cook until done. Rub through sieve to remove seeds and skins. To each gallon of strained tomato add one cup sugar, two cups vinegar, one tablespoonful salt, one-half teaspoonful each black pepper, ground cloves, allspice and cinnamon. Put spices and pepper in thin cloth bag if you wish catsup to be nice color. Boil all together two hours or more, and bottle or can hot. If bottles are used, scald corks and push in far enough so melted paraffin can be poured over top. Heat dried fruit thoroughly in the oven and put it away in paper bags tied securely to keep out worms. We have ladies' aid and missionary societies and each meets in farm homes once a month. We visit and sew at "aid" meetings and study under leaders at mission meetings. The lady who has the meeting serves lap supper.

We have never had many hints about drying fruit or vegetables for winter use. Won't the friends let us hear from them along this line? And may we not have a batch of reports concerning the social activities of our members? I mean accounts of all sorts of gatherings, whether for social intercourse, study or work with the hands. Let us do all we can to provoke one another to gathering together in a spirit of good fellowship and mutual helpfulness.

A double-cropping raspberry has been originated by an Italian small fruit grower of Hammonton, N. J. It produces berries on the tips of the new shoots of the season's growth from the last of August until frost, and on the laterals of the same shoots the following year in June. The berry is crimson, without any purple shade, and of a large size, both in June and autumn. It has a good flavor, is firm, and consequently a good shipper.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

3d Quar Lesson 13. September 28, 1913

DELIVERANCE AND DISOBEDIENCE: REVIEW.

For sustained interest, scenic effects, trying situations, unlooked-for deliverances, the lessons of this quarter form a narrative unsurpassed by the most thrilling fiction ever written. "Romola," or "Tale of Two Cities." or "Heart of Midlothian," are not to be compared to it. The scene shifts from the rustic hills and dales of Canaan to the Nile valley, with its superb civilization and its architecture characterized by a reserved grandeur; thence to Goshen, the "land of verdure," the pleasant and goodly pasturage; thence to the great triangle between the arms of the sea, the Sinaitic peninsula, with its granite cliffs and silent canyon. Moses is easily the most towering personality of the Old Testament. We find him first in his river-rocked cradle on the mystic Nile. Then undergoing his double tutelage, that of the court in all Egypt's wisdom, and of his mother in the pious annals of the patriarchs. Next flashes out that signal instance of self oblivion which deliberately rejected the treasures of Egypt for the affliction of God's people. The premature effort at emancipation is followed by the flight into Midian, whose awful solitudes were educative in themselves. Next we see the lonely shepherd bowing before that shaggy acacia, transmuted into a golden shrine. Next we see him waving his wonder-working rod over Egypt and evoking plague after plague to break the iron will of the Pharaoh. We find him standing on the west shore, opening with his crook, a path through the deep for a myriad of manumitted serfs who have just partaken of a newly-instituted and most significant sacrament. We see the same towering figure standing on the east shore of the sea with the same rod converting what had been a highway for the fugitives into a grave for their pursuers. Now begins Israel's march of mystery through the wilderness. The commissariat problem becomes urgent at once. Under the most favorable conditions the provisioning of such an emigrant host would have taxed an expert quartermaster general. But the exigencies of the case make it the most remarkable of history. For the people in such an environment not to have "murmured" would have been unnatural. Fear is the worst of epidemics. As usual under such conditions, the people overrated their past advantages and underrated their past perils. The melancholy stampede was a real disgrace. See the long-suffering patience of God! The last word of the people is "bread." God's first word is promise of "bread from heaven." Now the emigrant nation came to the Almighty's secret audience chamber, Mt. Sinai. Here the setting of nature is appropriate to the scene of superlative majesty. Three million people stood and looked upon the granite throne of the Almighty. Nature was agitated. The mount shook. Speech of man breaks down in effort to describe the Theophany—that most august sight of earth. If the decalogue had been given in Palestine, it might be inferred that it was intended for the Jew, to whom Palestine belonged. Not there, but in the wilderness the law was given: and the wilderness belonged to everybody. Again, the cliff from which the decalogue was given belongs to the most enduring strata. The decalogue is even more enduring. Heaven and earth may pass away, but the law never! Rugged though the decalogue is, it is still saturated with love. It is not arbitrary commandment with pains and personalities, but rather a loving covenant between God and man. Spite of all the mighty works the people's religious perceptions were indistinct. They were very far short of the idea of the spirituality of God. They coveted a visible palladium. They required Aaron to make one. This was the occasion to which Stephen refers when, in their hearts, they turn back to Egypt. That glittering image carried in the van would be a substitute for the fire-cloud pillar. The image of

A Woman Who Has Brought Up Over 17,000 Babies

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Each month Doctor Coolidge has a regular department in *The Ladies' Home Journal* that tells about this marvelous work. And it is free to every reader: the most expert baby-health advice without a penny's cost.

A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

A year's subscription to *The Ladies' Home Journal*, by mail, costs $1.50, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

THE CURTIS PUBLISHING COMPANY
INDEPENDENCE SQUARE
PHILADELPHIA, PENNSYLVANIA

Egypt's famed Apis would be an aegis under which they might shelter themselves. Just then Moses returned. Great and just was his anger. He took the granite fragments of the broken tables of the law to grind the golden calf to powder. Then he went up the staircase of Sinai once more, to intercede for the guilty nation.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

A FRIEND.

After a few vain efforts to fly, a little bird lay exhausted and powerless on the ground. Its tiny wing is broken and bruised by a shot fired from a thoughtless human hand, while the baby birds above are left alone to die.

Boys and girls of this, a Christian nation, think twice before you kill that little bird and friend, the English sparrow.

What if a few books do condemn them; should the theory of two men or even two hundred influence two million rising farmers who should be theorists themselves?

Do you agree with me?

Did you ever see an English sparrow eating cherries, apples or berries? No! But many other birds have destroyed your small fruits. The blue jay is one; he is the destroyer of other birds' nests, the murderer of countless baby chicks, the terror of all other birds, yet you protect him and condemn the English sparrow!

Did you ever see them fight other birds unless they or their nests are first disturbed? On one of our sheds a robin raised her young in a vine not three feet from two sparrows' nests. They did not fight; yet you say that the English sparrow frightens away all native birds.

Did you know that they were scavengers of city streets, and that the little grain they consume does not compare with the thousands of moths, worms, ants, etc., which they destroy daily?

Yet still you protect hundreds of birds that eat both fruit and grain, and condemn the English sparrow.

—Lois Stewart, Age 15.

[Farmers' Bulletin 513 of the U. S. Department of Agriculture has this to say about the English sparrow: "Its habit of driving out or even killing more beneficial species and the defiling of buildings by its droppings and by its own unsightly structures, are serious objections to this sparrow. Moreover, in rural districts, it is destructive to grains, fruit, peas, beans, and other vegetables. On the other hand, the bird feeds to some extent on a large number of insect pests, and this fact points to the need of a new investigation of the present economical status of the species, especially as it promises to be of service in holding in check the newly introduced alfalfa weevil, which threatens the alfalfa industry in Utah and neighboring states. In cities most of the food of the English sparrow is waste material secured from the streets." As a matter of fact, there are but two or three species of birds in this country that really deserve death. Most of them are very useful indeed, and should be protected.]

Making Money.

(First Prize.)

I will try to tell you how my brother and I made a little money.

About two years ago my uncle had quite a sick spell, and he stayed at our place.

There was no one there to do his chores, so my brother and I did his chores, for his place was about one-fourth of a mile from the schoolhouse, so one of us would go over every morning to do his chores.

When he got all right again, he gave us a pig for doing his chores.

When the pig got big we sold him and got over $25.

So then we bought us some seed potatoes and planted them. When they were ready to be dug, we dug them, and sold about $12 worth.

This year papa let us have some more potatoes, and we sold about $4.80 worth. He also gave each one of us twenty-five bushels of wheat, and a pig.

We sold the wheat and got $15 apiece.

The pig is not full grown yet, so we have to wait a while. —Leo Knop.

Our Playhouse.

There are four of us girls who have our playhouse together. We have had our playhouse together for some time. This year we had a show in it, and got $1.02. We charged two cents for admission, and one cent to have your fortune told, one cent to have a reserved seat, and one cent to have a bag of popcorn and an apple. I think we did well. We had two plays, singing and speaking. After we had our show, a day or more after we cleaned all of it up, and began to play house. We have a nice piano to play on. It is a large one. And the way we came to get it was, two of the girls are sisters, and their father brought it down to the playhouse from his hall. We have a nice sideboard, and have a great number of dishes. Some of them are cracked and some not. We have jello dishes and glass tumblers and most any dish you can think of. We have a cot and chairs, a table, and a clock-shelf, a shelf for our tooth powder and a great number of other things. We have bed rooms. We fix them in two different places. The building used to be a summer kitchen, but we girls have it for a playhouse now. It is all in one room. We have named it "Dennison Hall."

—Lillian Amidon, Age 12.

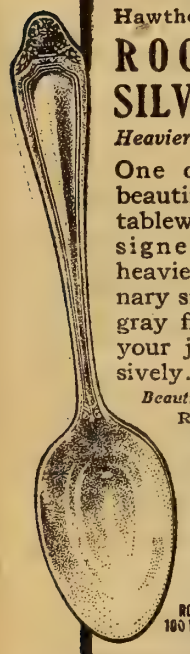
A House of Curios.

(Third Prize.)

I thought I would tell you about a strange thing in our town. It is a log cabin that people send strange things to. I have a log in the cabin with the others. There is a glass bottle in the southwest corner of the cabin with the names of the ones who put a log into the cabin.

In the cabin there is a flax hackle that came from Ireland and some peat from an Irish bog. There is a skin of a wild hog that was killed in Mexico. There is a spinning wheel, and many old guns that were in the revolutionary war, and so many other things that I can't tell about them all, for there are over a thousand things in the cabin. H. L. Williams is the cabin manager, and he and I are very good friends. I will close now, for I could write a week and not tell about all the things that are in the cabin.

—Walter Rogers, Kan.



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6373 Ladies' Dress.—Serge or cheviot can be used to make this dress with the collar, cuffs and belt of contrasting material. The dress can be made with either long or short sleeves. The two-piece skirt closes at the left side.

The pattern 6373 is cut in sizes 34 to 42 inches bust measure. Medium size requires 5½ yards of 36-inch material, ⅝ yard of 18-inch goods for vest and 1¾ yards of 24-inch satin. Price of pattern ten cents.

6321 Child's Nightgown.—This dainty garment is made with body and sleeves in one and is to be slipped on over the head. The neck may be high and finished with a collar or low in round or square outline. Nightgowns are made of nainsook, lawn, batiste, cambric, sateen, outing flannel and wash silk.

The nightgown pattern 6321 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 2⅝ yards of 36-inch material, with 3⅛ yards of edging and 1⅞ yards of ribbon. Price of pattern ten cents.

6304 Children's Dress.—This dress can be made with either the long or short sleeves. The closing is at the front. The skirt is cut in three pieces. Serge, cheviot or linen can be used to make this dress with the trimming band of contrasting material.

The pattern 6304 is cut in sizes 2, 4, 6 and 8 years. Size 6 years requires 2¼ yards of 36-inch material with 1 yard of 27-inch contrasting goods. Price of pattern ten cents.

6338 Ladies' Three-Gored Skirt.—There is a bit of fulness at the waistline in this pretty skirt which is particularly effective. A stitched tab holds it in place. This and the cut-off corner on the front gore is the only trimming with the exception of the buttons and loops.

Pattern 6338 is cut in sizes 22 to 30 inches waist measure. Medium size requires 3¾ yards of 36-inch material. Price of pattern ten cents.

6358 Ladies' Box-Plaited Shirt Waist.—This shirt waist can be made in either the box plaited or gathered style. It is made with the seamless yoke and with either a high or low collar. Linen or madras can be used for this shirt waist.

The pattern 6358 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¾ yards of 36-inch material. Price of pattern ten cents.

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Oct. 7, W. H. Cooper, Hedrick, Iowa.
Oct. 8, A. Kool, Cordova, Iowa.
Oct. 9, S. C. Wyckoff, Kellerton, Iowa.
Oct. 9, C. F. Adams, Owasa, Iowa.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 11, Frank Pelzer, Marne, Iowa, sale at Atlantic, Iowa.
Oct. 11, Wigstone Bros., Stanton, Iowa.
Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 16, F. W. Akers, Laurel, Iowa, sale at Gilman, Iowa.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 23, Williams Bros., Villisca, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, G. W. Sefrit, Lucas, Iowa.
Oct. 28, O. J. McCullough, Clarks, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams & Sons, Villisca, Iowa, (sale at Sciota, Iowa.)
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 11, R. C. Hollingshead, Russell, Iowa, sale at Charlton, Iowa.
Nov. 13, H. F. Dodds, Florence, Neb.
Nov. 14, E. V. Waugh, Greeley Center, Neb.

Duroc Jersey Swine.

Oct. 6, Carey Cameron, Herman, Neb.
Oct. 7, O. S. Larson, Logan, Iowa.
Oct. 8, Wm. Reed, Rose Hill, Iowa.
Oct. 9, H. W. Lineweaver, So. English, Iowa.
Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 15, H. I. Branson, West Branch, Ia.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 17, F. H. Swan, Missouri Valley, Ia.
Oct. 22, Rude & Son, Moorehead, Iowa.
Oct. 23, Barker Bros & Crowell, Riverton, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 27, J. P. Peterson, Herman, Neb.
Oct. 29, Economy Stock Farm, Shenandoah, Iowa.
Nov. 5, S. W. Swanson, Stanton, Iowa, (sale at Red Oak).
Nov. 10, John T. Higgins, Abilene, Kan.
Nov. 12, W. M. Sells, Indianola, Iowa.

Hampshire Swine.

Oct. 10, C. P. Paulsen, Nora, Neb., at Fremont, Neb.
Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.
Jan. 8, SalTone Stock Farm, Greensburg, Ind.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Oct. 30, W. P. Doolittle, Woodland, Mo.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

Holstein-Friesian Cattle.

Oct. 21-22, Woodlawn Farm, Sterling, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Short-horn Cattle.

Oct. 6, Carey Cameron, Herman, Neb.
Oct. 9, Miller & Northy, Morley, Iowa.
Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 13, S. F. Lockridge, Greencastle, Ind.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 15, L. B. Branson, Ord, Neb.
Oct. 16, F. W. Akers, Laurel, Iowa, sale at Gilman, Iowa.
Oct. 16, R. W. Botts, Plymouth, Ill.
Oct. 21, C. J. C. Cold, Berlin, Iowa.
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. D. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.

Hereford Cattle.

Oct. 11, Gudgell & Simpson, Independence, Mo.
Oct. 21, C. A. Tow, Norway, Iowa.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Polled Durham Cattle.

Oct. 15, Walker Bros., Ord, Neb.

Aberdeen Angus.

Oct. 16, John Cash, Jr., Parnell, Iowa, sale at Williamsburg, Iowa.
Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.
Mar. 25, C. J. Martin, Jeffenson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

Percheron Horses.

Oct. 10, F. T. Pemberton, Iowa Falls, Ia.
Oct. 20, Robison Bros., Morton, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.

Imported Shire Mares.

Dec. 11, Trumans Pioneer Stud Farm, Bushnell, Ill.

FIELD NOTES.

One-year-old Single Comb White Leghorn hens and cockerels are offered for sale by Mrs. S. J. Philson, Harlan, Iowa, on page 21 of this issue.

On page 21 of this issue will be found the advertisement of Orlando Jacobs, New London, Iowa, offering Single Comb Brown Leghorns for sale. In furnishing copy he writes: "While not as large as some years, our Single Comb Brown Leghorns are exceptionally good and show the results of careful breeding. For ten years I have made an effort to produce the best possible, and believe that I can furnish stock that will be appreciated."

Thirty Duroc Jersey boars—seven fall and thirty-three spring boars—at $30 to $40 are advertised for sale by R. F. Alkman, Audubon, Iowa, on page 39.

Mrs. Laun, Floyd, Iowa, is offering Rhode Island Red yearling hens, cockerels and pullets, and Indian Runner ducks, for sale in her advertisement on page 21.

The advertisement of Geo. W. Harris, Shelby, Ohio, offering Single Comb Mottled Anconas for sale will be found on page 21 of this issue of The Homestead.

J. H. Berry & Sons, Iowa City, Iowa, are advertising fall and spring Duroc Jersey boars, with quality, at very reasonable prices. They guarantee satisfaction on all mail orders.

Glen F. Rider, Farmington, Iowa, is offering to sell registered Shropshire yearling rams and ship them C. O. D. within 100 miles of Farmington at $12.50 per head. See page 28.

C. C. Evans, North English, Iowa, is offering Chester White boars for sale on page 38. He has a fine lot of boars sired by Combination 2d and would be pleased to price them to any of our readers.

Single Comb Black Minorca pullets, bred from the best of layers and large, improved stock, are offered for sale by Lewis Tieden, Elkader, Iowa, in his advertisement appearing on page 21 of this issue.

Fifteen Duroc Jersey boars, all of which have been vaccinated and are therefore immune, are offered for sale by Will Bauer, Audubon, Iowa, on page 38. He is pricing these at $30 and $40 if ordered soon.

Sixty head of immune Chester White boars are advertised for sale by J. H. Stewart, Dickens, Iowa, on page 38. He certainly has a dandy crop of boars this year. Write him for prices and mention The Homestead.

W. H. Hunt & Son, Galt, Ill., have registered Oxford and Shropshire yearling rams and ram lambs for sale as per the advertisement found on page 23 of this issue. These animals are of the best of breeding and will be priced right.

If you want a good Duroc Jersey boar at a reasonable figure read the advertisement of Perry O. Brown, Lamoni, Iowa, on page 39. He has twelve head of good boars for sale and he is making special prices on these in order to move them. Write him about them at once.

Mrs. Laura Mather, Clarksville, Iowa, in furnishing copy for her advertisement on page 21 of this issue, writes: "I have an exceptionally fine flock of pure-bred Rose Comb Brown Leghorns (young hens, pullets and cockerels) that I will offer at barely remunerative prices."

Earl Bloom, Bridgewater, Iowa, makes a change in his advertisement of Shropshire sheep on page 23, which will be of special interest to buyers. He is closing out his flock, but still has eleven head of choice yearling and ram lambs and one two-year-old ram. He says that these are heavy-boned, well-wooled animals, and that in order to close them out he will make some specially low prices

Sherwin-Williams paints and varnishes are advertised on page 10. The advertisement truthfully says that painting today saves rebuilding tomorrow. It says other things, too, and hints that any reader of this paper may obtain a valuable booklet entitled "Paints and Varnishes on the Farm," without cost. Get one. Write for it to Sherwin-Williams Co., 683 Canal Road, Cleveland, Ohio.

L. I. Handlon, proprietor of the Shamrock herd of Chester White hogs, announces on page 38 that he has for sale high-class fall boars, as well as winter and spring pigs of both sexes. He is quoting unusually low prices on these animals and guarantees satisfaction. His herd is in perfect health and thrift and there is no disease in his neighborhood. For descriptions write to L. I. Handlon, R. R. 3, Farmington, Iowa.

R. W. Botts, the well-known Short-horn breeder at Plymouth, Ill., will disperse his herd Thursday, October 16th, at which time he will present forty head of well-bred Scotch cattle including thirteen bulls. The buying public will find this an attractive lot of cattle. W. B. Rigg, Mt. Sterling, Ill., will contribute nine head, eight females and one bull. Particulars regarding the sale will appear in later issues of The Homestead.

D. Nauman, West Liberty, Iowa, has twenty-five Duroc boars on hand sired by Chief Jewel and Proud Ohio Chief 2d. All his hogs are vaccinated with the double treatment and everything shipped out is guaranteed to please. Mr. Nauman won first, second, fourth and sixth place on boar pigs, and first and fourth on sow pigs at the recent Iowa State Fair. Mr. Nauman will make a brood sow sale January 20th. See page 31.

E. J. Trumbauer, St. Charles, Iowa, breeder of Chester White swine, in furnishing copy for new advertisement on page 38 of this issue, writes: "The Chester White boars I am offering for sale are of March and April farrow; will weigh from 100 to 175 pounds each; have had but very little grain, hence are not loaded down with corn fat, but instead, have had the run of an alfalfa pasture all season, so they have the size, bone and lots of quality. Their dams are of the large kind, weighing from 450 to 600 pounds. They are sired by the two herd boars, Fancy Boy 20451 (this hog is a real quality hog throughout) and Big Jumbo 22969, one of the best in the White family, in length, arched back, well-sprung ribs, head, ears and bone. In short, none better than he. If in need of one come see or write."

Guy Sickels, Athelstan, Iowa, who has been advertising a public sale of Poland China hogs to take place October 6th, advises us that on account of disease he has postponed the sale indefinitely.

In his advertisement on page 38 Earl Bloom, Bridgewater, Iowa, offers choice Chester White hogs for sale. He has in particular one extra choice aged herd boar, and some fine spring pigs. He advises us that he has just returned from the Hoover herd at Oskaloosa, Iowa, where he bought an extra fine fall boar, and one of the best gilts in the herd.

Henry G. Walker, postmaster, Iowa City, Iowa, whose advertisement of Rose Comb Rhode Island Reds appears on page 21, writes that at the Johnson County Fair his young stock carried away the blue ribbon on both cockerel and pullet. His flock, he writes, includes the best birds he has ever raised. He also has a few choice Indian Runner ducks for sale.

J. L. Stittsworth advertises Chester White hogs on page 31 of this paper. He wishes to close out a fine lot of early spring boars and has made very low prices on them. They are right in every way. The herd has gone through disease in the summer time, and those which remain may be considered cholera proof. For further particulars, address J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa.

Forty head of Short-horn cattle will be sold at Wheaton, Ill., Tuesday, October 14th, by Thomas Stanton. Fifteen head are representatives of popular Scotch tribes and the balance belong to the Young Mary, Rose of Sharon, Duchess and Wild Eyes families, topped out by good Scotch bulls, and a lot of extra good, roomy matrons, all heavy milkers and approved breeders, fourteen of the cows selling with calves at foot. Particulars will appear in later issues.

Orlando Jacobs & Son, New London, Iowa, are advertising Berkshire boars and sows for sale in their advertisement which appears on page 36 of this issue. In furnishing copy they write: "Our herd of Berkshire hogs is in good healthy condition and contains some excellent boars and gilts. They are sired by three grand boars, among the best known to the breed. The dams are equally well bred. We solicit a share of the trade and will ship on approval to any responsible party."

C. H. Porter, Eagle Grove, Iowa, places a new advertisement of his herd of big-type Poland China hogs on page 31 of this paper. Mr. Porter's herd is one which has established an excellent reputation as a producer not only of big Poland Chinas, but those which have as well quality, finish and early maturing merits. The blood lines are those now most popular, but Mr. Porter has exercised unusual care and selection and has avoided much of the inferior character that has crept into other herds of big-type hogs. He has for sale spring boars, which he believes to be better than any he has ever before offered for sale. They have all been immunized by the simultaneous treatment, and may be purchased and taken to other herds with the certainty that they will not suffer from cholera. For special prices call on or visit C. H. Porter, Eagle Grove, Iowa.

We wish to call attention to the fact that Orville O. Jones, York, Neb., has for sale some very choice Poland China boars sired by the great and only Jumbo The Great. This boar is one of the great boars of a great Poland China state and as a sire he is first class. Mr. Jones has only reserved about a dozen of the very best out of a herd of thirty or more boars and these have passed through the disease and also a double serum treatment. They certainly should be immune. They should appeal especially to those that are close to diseased herds or that have been visited with the cholera. These boars are being held at very reasonable prices, really less than they should bring. Mr. Jones also has three Short-horn bulls for sale. Two of them are roans and very fine and one a red. They are priced at such figures as farmers should be willing to pay. Some of them are by Pleasant Lawn Knight, one of the largest and best breeding bulls used in central Nebraska. Barred Rock cockerels of the very highest type are also for sale. They are of such breeding conformation that they should be winners at the big poultry shows this fall. Mention The Homestead and ask about this stock. See page 31.

H. S. Allen advertises Duroc Jersey hogs on page 31. Writing with reference to them Mr. Allen says: "In calling attention to the boars we have for sale we can frankly say that they are a good lot. Some of them are as good as we ever raised. Three are sired by Crimson Wonder Jr., he by Crimson Wonder Again, and his dam the noted sow, H. A.'s Queen. These are hard to beat. They are big and have quality. There are also good ones sired by Crimson Wonder Again. Do you know what the get of old Crimson Wonder did at the Nebraska State Fair? F. H. Allen, Tobias, Neb., showed one litter of one boar and three sows that captured first on boar under one year, and first, second and sixth on sows under one year. They were winners of first under-one-year herd, first on National Duroc Jersey special, second on get of sire, and the National Record Association cup. The grand champion boar at the Nebraska State Fair had for dam a daughter of Crimson Wonder Again. The grand champion boar at the Iowa State Fair was a grandson of Crimson Wonder Again, as was also the grand champion sow at the Nebraska State Fair. The animals I have for sale will be priced very low. Russell is on the main line of the Burlington railroad, fifty miles south of Des Moines." Address H. S. Allen, Russell, Iowa.

Grant Lynn, Spirit Lake, Iowa, recently sold to W. M. Sells his noted Duroc Jersey boar, Evergreen Prince, and he secured in this deal Mr. Sells' well-known herd boar, L. E.'s Col. Grant will use him on quite a number of his best sows that he will sell in his winter sale. Grant has vaccinated all his boars and they will be ready to ship in a few weeks. He concluded that everybody wanted vaccinated boars and he wants to fill his orders to the satisfaction of his patrons.

As per the announcement on page 31 the Singmaster Percheron importing and breeding concern has opened a branch establishment at the stock yards of Sioux City, Iowa, which will be operated under the name of Singmaster & Walker, and will be under the management of C. C. Walker, whose experience in the past, good judgment, ability and honesty entitle him to consideration. Some of the best stock of Maplehurst Farm will be forwarded to this branch. Buyers are requested to call at the yards.

C. F. Adams, Owasa, Iowa, will hold his sale of Poland Chinas on October 9th and will sell forty spring boars and a few gilts and a fall yearling boar by Big Jumbo. These boars all have extreme length and immense size for which Mr. Adams' herd is noted. Mr. Adams has five herd boars whose combined weight is 2,850 pounds, and none of them are fat. There are several spring boars that go in the sale that are better prospects than the older boars were at the same age. Maid's Halver 1st is a two-year-old boar that weighs 860 pounds. See page 31 and write Mr. Adams for catalog, mentioning The Homestead.

J. B. Heisel, breeder of Poland China hogs advises us that he is now making special prices on boar pigs of March and April farrow. These, he says, are a good lot of big-type pigs, weighing from 150 to 200 pounds apiece. He has a large crop of fall pigs and must dispose of his spring boars as soon as possible, and for that reason he has priced them as low as $25, a figure which any farmer can afford to pay. Mr. Heisel raises and sells from 100 to 125 pigs each year, and almost every sale is to a satisfied customer. He made one of the finest exhibits ever shown by one breeder at the Grinnell Fair, which included forty of his choicest hogs, and took home with him twelve first prizes and eight seconds. He also offers twelve pigs to be shipped at weaning time, at from $12.50 to $15 each. Address J. B. Heisel, Grinnell, Iowa.

Shetland Ponies for Sale.

If any of our readers want some good Shetland ponies, H. W. Littleton, Harlan, Iowa, has them for sale. He offers eighteen head, including stallions, mares and fillies. His advertisement appears on page 35. Write him at once and mention The Homestead.

Polled Hereford Bulls.

A number of good young Polled Hereford bulls, ranging in age from ten to fifteen months are offered for sale by F. O. Peterson, Galva, Iowa. Mr. Peterson will be glad to tell The Homestead readers more about these bulls provided they mention this paper when writing him.

Fisher's Prize-Winning Hampshires.

If any of our readers want to purchase Hampshire boars they can easily secure them from Roy E. Fisher, Winside, Neb. He has forty head for sale sired by his leading prize-winning boars. At three state fairs this fall he won forty-two of the leading prizes, so you may know he has some excellent Hampshires. He has boars of all ages, some of which were winners at those fairs. Write Mr. Fisher about these at once and kindly mention The Homestead.

Heckenlivly's Polands Meet With Favor.

In Dawson county, Nebraska, they have quite a big fair, and as this is the center of a great pure-bred stock breeding section there is much interest in the stock exhibits at the fair. This season A. B. Heckenlivly, Cozad, Neb., took thirteen of his big Polands to the fair. To prove that thirteen is not a bad number he won twelve prizes on these thirteen head. He got two of the championships, four firsts, three seconds and three thirds. These Polands are of the big Nebraska kind, the kind that are big and the kind that have fleshing quality. Mr. Heckenlivly will sell these hogs at very reasonable prices. They are good stuff, the writer has seen them, and we know whereof we speak. In interested one will do well to write immediately. Kindly mention The Homestead when doing so.

Paulsen's Hampshire Boar Sale.

We wish to call special attention to the sale of Hampshire boars that will be made by C. P. Paulsen, Nora, Neb., at Fremont, Neb., on October 10th. This sale will consist of sixty-five head of as choice boars as have passed through a sale ring in the West, if not in the whole country, in the history of this breed. Mr. Paulsen has about 100 head of fall and summer yearlings and he has chosen sixty-five of the very best of these for this sale. There are boars in this collection that are good enough to win in the best shows of the country and they are well enough bred and well enough marked to head the very best of the good herds. The writer saw this bunch of boars a short time ago and they are the best that we ever saw in one lot. We would advise Homestead readers to get the catalog of this sale immediately. Look it over carefully and plan to attend this sale. Homestead readers who cannot attend may send buying orders to J. C. Price, representing The Homestead, and careful

CAREY CAMERON'S SALE

SHORT-HORN CATTLE

and Duroc Jersey Hogs

HERMAN, NEB., OCT. 6, 1913

33 Head Short-horns, 8 Bulls, 25 Head Cows and Heifers

12 Head Duroc Jersey Boars

THERE will be **three head of Scotch bulls** in this sale, **four Scotch heifers and two Scotch cows.** The remainder will be well-bred Scotch-topped with five or six of the best Scotch crosses. There will be daughters of the great **Banker's Victor** in the sale and seven choice heifers sired by **Royal Knight,** a son of the great March Knight.

Charlie Laughlin and **Carl Hansen,** two of the best young breeders in this part of the state, will sell seven head of cows and heifers in my sale. These are practically the same breeding, as they were originally purchased from my herd. Write for my catalog at once and come to this sale. Address

Carey Cameron - Herman, Neb.

Carey M. Jones, Auctioneer **M. T. White, Fieldman for Homestead**

S. C. Wyckoff's Sale of Big-Type

Poland China Boars and Sows

Kellerton, Ia., Thurs., Oct. 9, 1913

63 HEAD, 37 BOARS, 26 SOWS and GILTS--63

EVERYTHING I will sell in my sale will be **immune** and **cholera proof.** The boars will be sired by **Kellerton King,** a son of Long King; **Good Orange,** a son of Big Orange; **Big Jumbo 2d,** by Big Jumbo; **Big Rattler** and R.'s Lad. I am selling as good a bunch of large-type Polands as will be offered this fall. Catalog ready, write for it and mention The Homestead. Address.

S. C. WYCKOFF - - KELLERTON, IOWA

H. S. Duncan, Auctioneer

KOOL'S POLAND CHINA SALE

TO BE HELD AT THE FARM NEAR

CORDOVA, IA., WEDNESDAY, OCT. 8, '13

THE sale will include three fall gilts, thirteen fall boars and twenty spring boars. The offering is almost entirely the get of Big Victor's Improver and Jumbo, but there will be one spring boar by the $1,500 Smooth Wonder 2d. The dams are mostly by Big Victor's Improver, but there are four out of Queen 1st, a 900-pound daughter of Lentz' Dandy Jim, two out of Lady Lightfoot 29th by Jumbo, five out of Lady A by Big King and five out of King's Lady 2d by Big King. The consignment is of high-class, big-type quality, in fair flesh and thrifty, growing condition. Send mail bids to C. C. Carlin, of The Homestead, in my care. Col. W. B. Duncan, auctioneer. For catalogs address.

A. KOOL - - - CORDOVA, IOWA

selections will be made for them, and their interests in general well looked after. When writing for the catalog kindly mention The Homestead.

De Young's Duroc Boars.

That old and reliable breeder of Duroc Jerseys, A. J. De Young, Sheldon, Iowa, advertises fifty head of splendid boars for sale on page 31. These have all been vaccinated and are immune and are ready to ship. If you want an immune boar, one that is well bred and right in every way, write Mr. De Young at once and mention The Homestead.

Crow's Durocs.

Frank N. Crow, Oxford, Iowa, is offering for sale three yearling boars sired by Chief's Col. and eight fall boars sired by Chief's Col. and Prize Wonder; also twenty March and April pigs sired by Prize Wonder and Chief Col. These pigs are out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall and others. These pigs have good bone and good length, are well proportioned and have good size for their age. Prices are reasonable. See page 31 and mention The Homestead when writing.

Pelzer's Poland China Sale.

On October 11th, Frank Pelzer, Marne, Iowa, will make a public sale of forty head of Poland Chinas at Atlantic, Iowa, and it promises to be one of the good offerings of the season. Mr. Pelzer has been breeding the larger kind for these many years and he is one of the best feeders in the state and you can take our word for it that he will put up a great line of boars and sows in this sale. Write him a card at his home town for catalog and see that your name is placed on his mailing list. We will tell you more about his offering in next week's issue.

Lefebure's Belgian Importation.

Just as we go to press we are in receipt of a telegram from Henry Lefebure advising us of the arrival of his twenty-eighth annual importation of Belgian horses. This includes 100 head and is in fact the largest importation made from Belgium this year. The consignment includes Belgian stallions and fillies and twenty Percheron stallions. Mr. Lefebure has just completed a new barn, No. 7, and it is filled with high-class horses. The pastures are also full of mares, fillies and colts. Mr. Fefebure invites the attention of critical horsemen and buyers and believes that they will find a visit to his farm one of interest in any event. See his advertisement on page 35 and for other particulars write Henry Lefebure, Fairfax, Iowa.

Polled Angus at Fond du Lac, Wis.

Horace E. Whittaker has a fine herd of seventy-five Aberdeen Angus cattle. His herd bull is Glenfoil Star, that was third at the 1911 Wisconsin State Fair and first at the leading Wisconsin county fairs. His sire was Black Woodlawn, champion at the 1909 International, and his dam was also an International winner. His females are principally of the Blackbird strain. He has four cows sired by Imported Prince Ito, that was imported from Scotland at a cost of $9,100 by Stanley R. Pierce, of Illinois. Mr. Whittaker has shown at the leading state and county fairs for eight years. For further information write Mr. Horace W. Whittaker, of Fond du Lac, Wis. Kindly mention this paper when writing.

Geo. Porter's Berkshires.

One of the best informed, most progressive breeders of Berkshire swine that the writer has met in some little time is Geo. Porter, Stanton, Neb. Mr. Porter has been breeding Berkshire swine about ten years, and his knowledge of pedigree and breed characteristics is certainly great for that length of time. He very early in the game, chose a type of hog that if not at present will certainly in a very short time come to be very popular. He has secured some of the best breeding stock that was obtainable and has been very careful in the selection of his breeding boars. Careful adherence to his one policy of mating has given him a type of stuff that is really good and very uniform. Among the good boars that have been in use we mention Lord Lee 20th, the sire of nearly all the breeding sows on the farm. Lord Lee 20th was sired by that great breeding boar, Lord Ezit 3d and out of Stumpy Girl 105th. He sired Mr. Porter a grand good line of brood sows. The spring crop of stock is nearly all out of these sows and sired by Baron Peaboby 10th by Baron Duke 88th and came from the famous Peabody Farms owned by June K. King, Marshall, Mo. Another boar in the herd is the one-time famous show boar, Longfellow's Premier by Premier Longfellow and out of a daughter of Lord Premier. This boar was successfully shown by Wm. Holt and later did service in some of the real good herds of the country. Mr. Foster has forty boars for sale. We recommend them to our readers that are looking for good, practical Berkshires. See page 31.

Forty Hampshire Boars.

On page 31 F. O. Peterson, Galva, Iowa, advertises forty head of immune Hampshire fall and spring boars. These are sired by Peterson's Choice and Cherokee Lad, both first-prize winning boars at the Interstate Fair at Sioux City. He is also offering Peterson's Choice for sale. He is pricing these boars where they will sell, as he wants to dispose of them as soon as possible in order to make room for his fall pigs. Mention The Homestead when writing Mr. Peterson.

Leitch's Clydesdales Win.

At the 1913 Indiana State Fair the Clydesdale horses exhibited by John Leitch & Son, Lafayette, Ill., were one of the strong features of the live stock show, and captured a majority of the prizes, winning first, second and third on aged stallion, first, second and third on two-year-old stallion, first second and fourth on aged mare, first and second on three-year-old mare, first on two-year-old mare, first on yearling mare, first on produce of dam and champion stallion and champion mare. There were three other exhibitors beside Leitch & Sons. With the exception of four head the horses exhibited by Leitch & Sons had never before been shown in an American ring and they were all of the high quality for which this establishment is noted.

Cooper's Poland China Sale.

W. H. Cooper, Hedrick, Iowa, will sell a great lot of Poland China boars and sows on October 7th at his East-side Farm adjoining the city. They are the top of 200 head and they will look good sale day. The offering is sired by the 900-pound, Big Bone 2d by the famous Big Bone; Big Expansion, a son of the noted Dorr's Expansion, and others by Chief Leader and Ideal Chief. The dams of the offering are sows with immense size sired by Big Bone 2d, Big Ex, Chief I. X. L. 2d and others of equal breeding. Mr. Cooper guarantees everything absolutely as represented and is always willing to make good every promise. It has always been his policy not to take a man's money unless he could give full value for the same. See page 31 and write Mr. Cooper for catalog, kindly mentioning The Homestead. Bids sent to Carlos C. Palmer, Homestead representative, care of Mr. Cooper, will receive proper attention.

Coleman Bros. Buy New Boar.

Coleman Bros., Ithaca, Neb., recently purchased a new Poland China boar. They made a careful selection from the well-known herd of Thos. F. Miller, York, Neb. Coleman Bros. lost all their boar pigs with disease this fall, but they have saved fifty-five sows and in this fifty-five head are twenty-five of the best fall gilts that we ever saw in one bunch. They are sired by one of the best sons of A Wonder that we know of and out of an excellent line of brood sows. These gentlemen will probably make a brood sow sale in the winter.

Lineweaver's Duroc Jersey Sale.

H. W. Lineweaver, South English, Iowa, makes his seventh annual public sale of Duroc Jersey hogs on Thursday, October 9th, as noted in his advertisement on page 29. Forty-five head have been cataloged for this sale. One of the principal attractions will be the herd boar, H. & B.'s Ohio Chief, which Mr. Lineweaver considers the greatest Protection-bred hog living. This animal is a son of Proud Ohio Chief, he by Ohio Chief, and his dam was a daughter of High Chief, another son of Ohio Chief. He has typical Ohio Chief head and ear, a prominent eye, a strong, deep, well-rounded body, heavy bone and good feet. He will weigh 900 pounds when fitted and looks as though he would make a good show. He is sold guaranteed in every respect and is only parted with because so many of his get are to be retained in the herd. Five choice boars and the same number of gilts of March and April farrow by H. & B.'s Ohio Chief have been cataloged for this sale. Their dams are daughters of Muncie Chief, Col. Tientsin, etc. The remainder of the offering are by Cherry Chief, Model Wonder, Golden Model 30th and a son of Chief Select. It is good breeding all through, the individual is most desirable, and the health, thrift and condition all that any buyer could ask. Remember that the sale will be held on the day fol-

NEXT WEEK'S SALE PROGRAM

Monday, September 29	Duroc Jerseys, W. C. Rickey, Thornburg, Iowa.
Tuesday, September 30	Duroc Jerseys, Waltemeyer Bros., Melbourne, Iowa.
Wednesday, October 1	Aberdeen Angus, J. R. Horswell, Estherville, Iowa.
Friday, October 3	Poland Chinas, E. E. Handley, Carroll, Iowa.
Friday, October 3	Poland Chinas, J. M. Sheehan, Stuart, Iowa.
Saturday, October 4	Poland Chinas, Frank Rainier, Logan, Iowa.
Saturday, October 4	Duroc Jerseys, Z. A. Zelmer, Atlantic, Iowa.

EXTRAORDINARY SHORT-HORN DISPERSION SALE

TO BE HELD AT THE FARM NEAR

MORLEY, IOWA, THURSDAY, OCTOBER 9, 1913

50 HEAD: 10 BULLS 40 FEMALES 50

THE bulls include Diamond King and Sterling Scottie, the two herd bulls we have been using so successfully. Diamond King has been rated by the best of breeders and judges as one of the great sires of the breed. He will do someone a world of good as he is very vigorous and sure. Sterling Scottie is a grand young bull that should head some good herd. Among the females Roan Lady, a 4-year-old daughter of Diamond King, is rated by many as the best Short-horn cow to be sold at public auction this year. She will weigh about 1,800 pounds and is every inch a show cow. Practically the entire offering is of the very best Scotch breeding. The Red Rose, Nonpareil, Fairy Queen, Beauty, Eliza, Flora, Ury and many other equally popular Scotch families are represented. We want you to write us for our catalog at once, mentioning Homestead. Auctioneers, Woods, Burge and Brock.

MILLER & NORTHY - - - MORLEY, IOWA

lowing that of Wm. Reed and may be easily reached from there. For catalogs or other information write H. W. Lineweaver, South English, Iowa.

Whitman's Short-horn Bulls.

J. H. Whitman, Lisbon, Iowa, is advertising Short-horn bulls on page 31. He has some reds and roans sired by Mister Robbin 338773, an extra well-bred Marr Miss bull sired by the noted breeding bull, Prince Robbin. One of these calves, Enterprise Robbin, a ten-months-old fellow that will weigh over 900 pounds, is of the Raspberry family and is a mighty good calf. He has six Cruickshank crosses in his pedigree. There is another sixteen-months-old roan Scotch-topped bull out of a Money Musk cow. See page 31 and write Mr. Whitman for prices, mentioning The Homestead.

Sharp's Hampshires.

Mike Sharp & Sons, Coal Valley, Ill., are breeders of Hampshire swine who are well known wherever this popular breed of swine is known. They have exhibited and been good winners at most of the leading corn-belt fairs and their herd has a reputation for quality and individuality. Messrs. Sharp have a number of the finest fall and spring boars that they have ever had on the farm. They have a yearling boar and a fall yearling boar that would make a mighty hot show at any state fair in the country. Any breeder who wants a really high-class herd boar should write or visit Mike Sharp & Sons at an early date. See page 36 and when writing kindly mention The Homestead.

Angus Cows and Heifers for Sale.

On page 31 Chas. Escher & Son, Botna, Iowa, advertises two car loads of splendidly bred Aberdeen Angus cows and heifers for sale. Half of these have calves at foot and these are sired by their noted show and breeding bulls. These cows are practically the same line of breeding as they have been selling in their sales. They will not make a public sale this fall and have therefore concluded to sell these privately. They also have thirty head of choice young bulls for sale and among these are some outstanding herd-bull propositions. There never was a better time to buy Angus cattle and Chas. Escher & Son are making special inducements on these two car loads of cows and heifers. They will be pleased to hear from parties who may want Angus cattle and they would like to have them call at the farm and inspect these cattle. When writing them kindly mention The Homestead.

Gudgell & Simpson Hereford Sale.

The sale of Hereford cattle to be held on Saturday, October 11th, by Gudgell & Simpson, Independence, Mo., at their farm, two miles from Independence, affords an opportunity seldom equaled to buy bred heifers that are superior individuals. There are fifty of these top heifers listed and Gudgell & Simpson have not parted with so good a lot in any sale. They are a decidedly uniform lot, they have plenty of size, excellent bone, are thick fleshed, have all the quality desired and have as good heads and horns as are to be found. The man looking for Herefords of the modern type that are so bred that they cannot fail to reproduce their kind cannot afford to miss this opportunity. Domino, Beau President, Beau Picture, Beau Dandy, Beau Modest and Bright Stanway are the sires. They are bred and safe in calf to Bright Stanway, Beau Dandy and Beau Modest. Two have calved and sell with calves at foot, the balance are due to calve this fall and during the winter and early spring. Breeders or those expecting to found herds should not overlook this opportunity, as these heifers will prove valuable things to add to good herds or for foundation stock. John W. Lenox, Independence, Mo., contributes ten choice yearling bulls, the pick of all his yearlings. They are sired by Simoon, Don Carlos by Publican, Folly's Lad, Harris' Prince 175th and Advertiser 10th. They are well grown, are big, strong fellows and are an attractive lot that should be appreciated. As the sale is to be held on Saturday of the American Royal Show week those who come to the show can easily run over to Independence on the interurban cars and see the cattle at any time during the week. Catalogs are ready and are being mailed on receipt of request for same mentioning The Homestead. See page 34.

Roberts' Poland China Sale Postponed.

Frank Roberts, Dexter, Iowa, has decided on account of the prevalance of disease in his community to postpone his Poland China sale for about a month until conditions for the local patronage are more favorable. Mr. Roberts' herd itself is not affected, and by sale date will be sold with a guarantee of immunity. Additional announcements will be made in later issues of this paper.

Moulton's Durocs.

C. A. Moulton, Morrison, Ill., has an excellent herd of Duroc Jerseys and at the present time is offering a fine lot of boar pigs of spring farrow of the most fashionable breeds. These pigs are sired by Success, Captain Model and S. E.'s Premier Col. Success is sired by S. E.'s Premier Col. and out of Pride of Sunnyside by Chief's Col., second dam Helen's Duchess by Ohio Chief. The pigs are out of sows by Browning Boy, he a grandson of Chief Col. Mr. Moulton's pigs are growthy and heavy boned and at the price he is asking for them should sell very readily. See page 39 and when writing him kindly mention The Homestead.

Angus Entries for Omaha Sale.

M. A. Judy, the sale manager, writes that he can still accommodate a few more Angus cattle in his combination sale at Omaha, Neb., November 4th. Mr. Judy has a fine lot of cattle consigned from well-known and reliable herds and parties with surplus cattle to sell will find this a most desirable outlet. The sale will be liberally advertised, the best of auctioneers employed, and when one considers the strong demand now existing for breeding cattle, there would seem to be no question but what good prices will be realized at the Omaha sale. The cost of consigning cattle to this sale will be only nonimal and full particulars can be secured by addressing M. A. Judy, West Lebanon, Ind.

Johnson's Immune Duroc Boars.

On page 31 Peter Johnson, Dickens, Iowa, advertises eighteen head of spiendid Duroc Jersey spring boars, every one of which has been vaccinated and are ready to ship. These are mostly sired by his good herd boar, Gold Col. 98857, a grandson of old Prince of Cols., and out of a dam by Tientsin. This boar has sired him some excellent pigs and he is offering a cracking good bunch of boars for sale. One of these litters is out of Belle Pilot, a daughter of A. F.'s Pilot Wonder and another litter is out of Nancy 3d, a granddaughter of old Golden Rule. A few others are out of daughters of Rowena's Hanley, and you will therefore see that he has a nice line of breeding behind these boars. Mr. Johnson's whole herd was vaccinated four or five weeks ago, and are therefore immune. These boars are ready to be shipped at any time and we know you will be pleased if you order one of them. When corresponding with him kindly mention The Homestead.

Larson's Duroc Sale.

Those of our Duroc Jersey readers who want to buy a King the Col. boar will get another chance in the sale of O. S. Larson, at Logan, Iowa, on October 7th, when he will sell fifteen head sired by this noted boar. In last week's issue of The Homestead we gave a detailed description of these boars and their breeding on the dam's side, and we will just add to it that he will sell just as good a bunch of boars in this sale as he sold before, and in a few cases we feel that they are better. One of the outstanding King the Col. boars is out of old Crimson Lady 2d and two very stretchy King the Col. boars are out of a Golden Model 11th dam. Other good boars in this sale are sired by Select Chief, Crimson Wonder 3d, a good fall boar by Advance Critic and several others by other well-known sires. Two sows go in the sale with a breeding privilge to King the Cols. and three choice King the Col. gilts are also listed. Get the Larson catalog and when writing for it kindly mention The Homestead. M. T. White will represent this paper at the sale. See page 32.

MAPLEWOOD
CHESTER WHITE SALE

To be held on the farm near Ankeny, Iowa,

Tuesday, Oct. 14, 1913

This is a Sale of Premier Hogs of Strictly Choice Lines of Breeding

THE consignment includes six mature tried brood sows, eighteen fall yearling sows, fourteen spring gilts, fall yearling boars and spring boars. They are the get of O. K. Perfection, Prince B., Grand Leader, High Honor, New Hampton Regulator and St. John. These boars are either champions or sons of champions. The dams are equally as well bred and trace to the best herds in the land. This is the biggest and best sale of the year. It contains breeding animals with show-ring quality. Cols. C. C. Evans and C. E. Luther, auctioneers. Send mail or wire bids to C. C. Carlin, of The Homestead, in my care. Catalogs now ready. Absolute health and thrift.

M. W. YOUNG - - ANKENY, IOWA

H. W. LINEWEAVER'S SEVENTH ANNUAL

Sale Choicely Bred Duroc Jerseys

At Farm, 2 Miles East of

South English, Iowa, Thursday, Oct. 9, 13

45 HEAD, including one of my herd boars, H. & B.'s Ohio Chief, the greatest Protection-bred boar living. There will be five choice boars and five choice gilts of March and April farrow by H. & B.'s Ohio Chief. Their dams by Muncie Chief, Mayor Jr., Wonder and Col. Tientsin, others by Cherry Chief, Model Wonder, Golden Model 30th and a son of Chief Select. If you are looking for quality we have got it. We have some very choice individuals to sell and desire your presence at this sale. Write for catalog and mention that you saw my advertisement in The Homestead. Send bids to Carlos C. Palmer, in my care or to either of the auctioneers. This sale follows Wm. Reed's sale at Rose Hill, Iowa, which is only thirty miles east. N. G. Kraschel and J. L. McIlrath, auctioneers.

H. W. LINEWEAVER, SOUTH ENGLISH, IOWA

William Reed's Great Duroc Sale

To be held at the farm adjoining Rose Hill, Iowa,

Wednesday, October 8, 1913

50 HEAD 50

THE offering consists of three fall boars, twenty-two spring boars, six fall sows and nineteen spring gilts. The fall boars are sired by Reed's Top Col. and Chief Select. Among the fall boars is one extra large, heavy-boned, high-backed boar with plenty of quality, sired by Reed's Top Col., that will make a herd boar. The spring boars are an extra good lot and among them is one outstanding good pig sired by Chief select and out of Fair Wonder 2d by J. C.'s Model Chief. There are six mangnificent fall sows by Reed's Top Col. and twenty extra spring gilts sired by Reed's Top Col. and Chief Select. This is by far the best offering of gilts I have ever put up. Write me for catalog mentioning The Homestead.

WILLIAM REED - - - ROSE HILL, IOWA

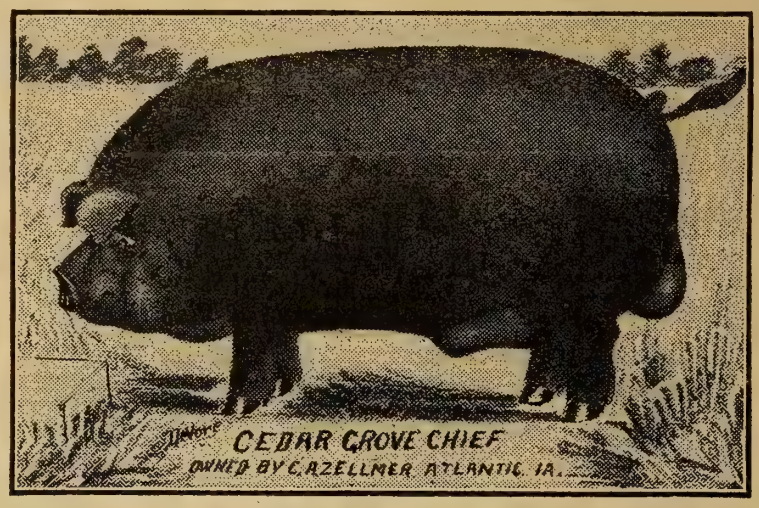
Auctioneers, Kraschel, Allen and Putman

When Writing to Advertisers Please Mention The Homestead

C. A. ZELLMER'S SALE OF DUROC JERSEY BOARS AND SOWS

Atlantic, Iowa, Oct. 4, 1913

50 HEAD. 27 BOARS, 23 SOWS 50



SEVEN **fall boars** sired by King Carlos, a grandson of Ohio Chief. 20 spring boars sired by **Cedar Grove Chief** and **Col. Lafollette; 5 fall sows, 16 spring gilts** and some tried brood sows. **Everything vaccinated and immune.** Sale right in town. Catalog ready. Write for it and mention Homestead. Address

C. A. ZELLMER - ATLANTIC, IOWA

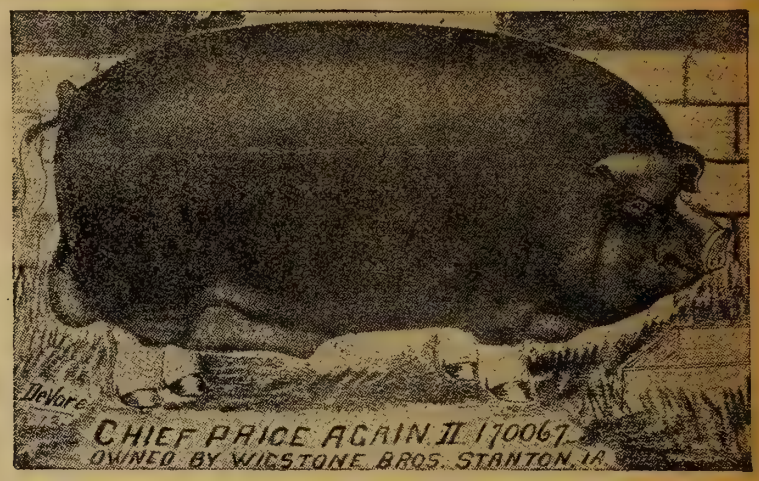
N. G. Kraschel, Auct. M. T. White field man for Homestead.

Wigstone Bros'. Great Sale

BIG-TYPE POLAND CHINAS

RED OAK, IOWA, OCT. 11, 1913

50 Head, 19 Boars, 31 Choice Sows---50



NINETEEN choice boars in sale—17 spring boars and 2 fall boars. A January boar sired by Chief Price Again 2d is one of the best boars to be sold this year. A March boar by same sire out of W.'s Lady Wonder is also a corker. Also some splendid boars sired by Big Jones 3d. We are selling some wonderful brood sows in our sale, several of which will have litters at side by Chief Price Again 2d, and 25 of the best big-type gilts that will be sold this fall. It is a great offering from one end to the other. Not a cull in the entire offering. Write for catalog and mention The Homestead. Address

WIGSTONE BROS. - STANTON, IOWA

H. S. Duncan, Auctioneer **M. T. White, Fieldman for Homestead**

Pemberton's Dispersion Sale of Shorthorns, Percherons and Polands.

Frank T. Pemberton, Iowa Falls, Iowa, will hold a dispersion sale of Short-horn cattle, Percheron horses and Poland China hogs at his farm near Iowa Falls, October 10th. This dispersion is made necessary owing to the fact that serious illness in the family necessitates his leaving the farm permanently. He has spent several years, as well as several thousand dollars, in getting his herds of pure-bred stock together and he regrets very much the necessity of closing them out. Fifty Short-horns, twelve Percherons and fifty Poland Chinas make up the offering. Thirty-five of the Short-horns are of the best Scotch breeding and descend from many of the most fashionable families in the herd book. The two herd bulls, Snowflake and Favorite Goods, are included. Snowflake is a Cruickshank Marsh Violet sired by Roan Sovereign, he a son of Valley Sovereign and out of Honey Flower 2d. Snowflake, as his name indicates, is white in color and is bred in the purple. Favorite goods is of the Jealousy tribe and sired by Straight Goods, a grandson of the sensational sire, Imp. Choice Goods. These are the only two of serviceable age that will be in the sale. The imported cow, Strowan Buttercup 24th, a twelve-year-old cow, as well as several of her daughters and granddaughters, are cataloged. Archer's Victoria 2d and Village Victoria are both Cruickshank Victorias descending from the imported cow, Victoria 73d. Miss Laura is a five-year-old daughter of Choice of Archers and out of Imp. Laura 12th. There are others of the Duchess of Gloster, Acorn, Lavender, Secret, Rose of Strathallan, Orange Blossom, and Dorothy. The advertisement on page 33 gives a sample of a few of the pedigrees of the Short-horns. The big catalog issued by Mr. Pemberton gives complete information regarding the offering. In Percherons a six-year-old imported stallion, Hihi, sells. He is a large flat boned, good quality horse and has proven a sire of the good ones. There are two imported three-year-old fillies both in foal to Hihi. There are several other mares of the useful sort. The mares will not be fat as they have been worked hard all summer and have been made to earn their own way. They are the kind that will do the work of any ordinary farm horse and at the same time raise a colt that will make a handsome profit on the investment. The fifty Poland Chinas are largely fall yearlings. The boars and sows are of the large, long, heavy-boned kind and at the same time they have plenty of quality. They are of the very best big-type breeding, such sires as Hadley Expansion, Big Halver, Long Victor, Grand Chief and Mammoth Jumbo appearing in their pedigrees. There are sure to be many bargains in this offering of cattle, horses and hogs as is always the case when so many head are to be sold in one day, and this is why everyone interested should plan to attend this sale. Write Mr. Pemberton for a catalog, kindly mentioning The Homestead.

Wycoff's Big-Type Poland Sale.

Thursday, October 9th, at Kellerton, Iowa, S. C. Wycoff will make a public sale of sixty-three head of big-type Poland China boars and sows and he is putting up a splendid offering. His will be all of the strictly large-type kind of Polands and they will be backed by the best blood known to the larger strains that are now in demand by the best breeders throughout the West and the East. He is selling thirty-seven head of boars and twenty-six sows and gilts, and one of the very important factors of this sale is that everything he will sell has been vaccinated and are cholera immune. His boars have splendid size and this is another thing the farmers and breeders are looking for. In a recent letter to us Mr. Wycoff has the following to say: "The hogs are coming along fine, they are great big boned, long enough to suit the most exacting, with enough quality to make just the kind of hogs that have made the big type famous. The litter of thirteen pigs out of Queen Hadley are coming on in grand shape; there will be twelve of this wonderful litter in this sale which of itself ought to make this one of the best sales of the season. They are sired by that good son of Long King (Kellerton King) that has done me so much good in building up my herd Then there are the three litters out of the Big Orange sows that are hard to beat, also sired by Kellerton King. And I wish you could see the six fine boars out of the Long King's Equal sow; they are simply killers; they are sired by Kellerton King, making them line bred Long Kings. And the litter out of Sue Wonder by Good Orange are probably the best things in the sale. W. B. Duncan says so and Will is a good judge. I also have a litter out of an R.'s Pawnee Lad sow sired by Good Orange that are very good. Two of my Big Orange sows will have litters in the sale sired by Big Jumbo 3d, a grandson of Mouw's Big Jumbo, combining the blood of two of the most popular hogs that the breed affords. I will sell this great yearling hog, as I have more herd boars than I need. He is a large, well-grown yearling of May farrow, extra heavy bone, good head and ear, good coat of hair, well marked, and is a good breeder, as his pigs will show sale day. I am putting two as good two-year-old sows in this sale as will go through a sale ring this fall; one will have litter at foot by Big Jumbo, the other one due to farrow to the service of Good Orange October 11th, just two days after the sale." His catalog is now ready for distribution and will be sent to our readers upon application. When writing for it kindly mention The Homestead.

Waltemeyer Bros.' Duroc Sale—Last Call.

Waltemeyer Bros., Melbourne, Iowa, will hold a sale of Duroc Jerseys on September 30th. This sale is one of the most important to breeders in general that will occur in a long time. This firm have made a marked success in the breeding, developing and showing of pure-bred swine. Their prize-winning herds that have made an almost unparalleled record in the show rings have practically all been bred by themselves. To start with these breeders had energy, ability and integrity. With these as capital they have succeeded. It is not so much of a feat if one has financial backing to buy a large number of the best animals of any one breed and make a successful winning in the show ring. It does take ability to breed the animals that can win in the strongest competition such as Waltemeyer Bros. have done. In the last issue of The Homestead we gave a description of the boars they will sell in their forthcoming sale and we want to further emphasize the fact that this is an exceptional opportunity for breeders to secure really high-class boars. High Model, the grand champion of Iowa, 1912, and first in the aged class at the Iowa and Nebraska State Fairs in 1913, is one of the great boars of the breed. He is one that should be looked after by the very best of breeders. Golden Model 34th, the grand champion boar at the Nebraska State Fair, 1913, is another great prospect for a herd header and should go into a good herd. Golden Model 31st, the grand champion of Sioux City, 1912, and second in the aged class at Lincoln, Neb., 1913, has proven a sire of exceptional merit. No breeder can go wrong in placing at the head of his herd either of the three above boars. All three of the above boars are sired by the phenomenal sire of prize winners, Golden Model 2d. Tormenter, the senior yearling prize winner in the 1913 shows, is a son of W. B.'s Model Chief and out of Fancy Wonder, the dam of Golden Model 31st. There will be a great lot of spring pigs sired by High Model. Sensation Wonder, Golden Model 2d, Crimson Wonder Again, I Am Golden Model 2d and Model Chief's Lad. Breeders in general look to the herds that have been producing the prize winners for herd boars and this is a logical thing to do. A family that has been producing prize winners are bound to continue doing so. When any breeder or breeders can breed Durocs that can win in the fastest company, he or they must be considered as having hogs of superior merit, especially when the winnings have been won under different judges each year and at the different fairs. Any of our readers in need of a high-class herd boar should write Waltemeyer Bros., Melbourne, Iowa, at once, kindly mentioning The Homestead, and arrange to attend the sale. If it is impossible to attend send a bid to Carlos C. Palmer, Homestead representative, in care of these gentlemen and your interests will receive careful attention at his hands.

Rainier's Chief Price Again Sale.

On October 4th, at Logan, Iowa, Frank Rainier will sell forty-five head of his big-quality Poland Chinas and he is putting up an excellent lot of boars and sows in this sale. Mr. Rainier and Harvey Johnson together own that noted show and breeding boar, Chief Price Again, and he ranks as one of the greatest breeding boars today in the West. Those who saw him when he was shown at the Iowa State Fair a few weeks ago said he was the greatest boar at that show and they were about right. He at that time weighed 910 pounds as a two year old, smooth as a ribbon and with the size that is seldom seen coupled with the quality that he has always carried with it. He sired Chief Again Price that was a grand champion boar the following year at the Nebraska State Fair and he was also the sire of Chief Price Again 2d, the third-prize boar at Des Moines and he weighed 1,024 pounds. So much for this great boar at this time, but we will say that there is quite a number of his get in this sale. In this sale there will be forty-four head of top notchers, ten fall and summer boars. A good share of these are strictly herd-heading propositions—great backs, heavy bone, good broad heads and nicely hung ears and the best of feet. There are also three fall gilts that are worthy of special mention. Two of these were bought of Harvey Johnson at a good price as attractions for this sale. One of these is sired by Long Chief, a son of Chief Price Again and out of Columbia's Likeness, bred to farrow a few days after sale to Long Wonder by Crow's Kind. The other is by Big Wonder, a son of Pritchett's A Wonder and bred to Chief Price Again. And there is one open gilt by Chief Price Again that is a stunner and would make a sale topper next spring. If either one of these three splendid fall sows sell under three figures they will sell too cheap. There will be two sows sold with litters by C. P. A. Beauty Surprise, by Big Chief, by Orange Chief, out of Logan Surprise, is a typical Minnesota sow, bred for size, and is a good one, what we call a great two year old. The spring pigs are a grand, good lot, mostly all by C. P. A., and the nineteen boars will make a fine bunch to pick herd boars from. There is one out of Beauty Surprise, the sow that goes in sale

COOPER'S ANNUAL SALE, BIG-TYPE POLAND CHINA BOARS and GILTS
HEDRICK, IOWA, TUESDAY, OCTOBER 7, 1913

WE will sell on this date, the most select draft of boars and gilts we have ever made from our herd. There will be no tail enders, but all top stuff. If you are interested in the best there is in big breeding, and big hogs with quality, come. We assure you no disappointment. They will be sired by Big Bone 2d, Chief Leader, Big Expansion, Ideal Chief, and other noted boars of the breed, from 600-pound yearling sows to sows weighing 800 and over. Send for our catalog. It tells all.

W. H. COOPER - - - - - - - - - - **HEDRICK, IOWA**

that will just suit someone who wants extreme size with lots of quality. Mr. Rainier is also including one gilt of this litter by C. P. A., and she is sure the right kind. There will be ten spring gilts in all, and every animal that goes on sale is worthy of special mention. If you have not received his catalog write for it at once and kindly mention The Homestead. Bids sent to M. T. White will receive attention on sale day. See page 34.

Wigstone Bros.' Great Poland Offering.

One of the greatest offerings of big-type Poland Chinas that will be sold this fall will be that of the Wigstone Bros., whose sale will be held at Red Oak, Iowa, October 11th. The boys have listed fifty head for this sale and it is an offering that we can recommend to any of our Homestead readers who are going to be ready to buy a good boar or a few good sows. Their offering is all that the best big type calls for, and the man will be hard to please who will not be able to get what he wants either in a boar or a sow in their sale. In the first place many of the things they will sell will be sired by Chief Price Again 2d, a boar that weighed 1,024 pounds at the Iowa State Fair and he is one of the largest and one of the best boars that is doing business today in western Iowa. He has the size and the smoothness that the boys all like and he is siring some corking good things on their farm. They will sell seventeen head of spring boars and we will just mention a few of the best. No. 1 of the catalog is a January pig, sired by Chief Price Again 2d and out of the great sow, Giantess D. Here is one of the largest and best sows in their herd and here is a boar that will not only be large himself, but will be smooth and he is a prospect and a very good one for the 1,000-pound class when he is grown out. Some good breeder should get his eye on this boar and go and buy him. A March boar by the same sire and out of W.'s Lady Wonder is also a good one and he will make another splendid boar when grown out. This pig has a little white spot on him, but that makes him all the better and a great many will like him when they see him at the sale. There are three good Big Jones 3d pigs in the sale. One of these is a January pig out of Mammoth Lady, and he is a good one; another is out of Chief's Lady 4th by old Major Nelson. A splendid boar that came in February and sired by W.'s Wonder is out of Miss Jane, one of the best sows in the herd. He is a good boar and his dam is a splendid sow and she will also be sold in the sale. There will be two fall boars in the sale sired by Big Jones 3d. They will sell twenty-three spring gilts sired by Chief Price Again 2d, Big Jones 3d and W.'s Wonder and there will be few sales this fall where you will find such a good lot of gilts as these boys will sell. A January gilt by C. P. A. 2d and out of Miss Peerless is an outstanding good one and you will not see a better one this fall. She goes back to Peerless Lady, their noted old show sow. A full sister to her goes in and she is almost as good. A good gilt by C. P. A. 2d out of Giantess D., is another good one and she is a full sister to the boar No. 1 in catalog. Two very choice gilts sired by Big Jones 3d and out of Mastodon Lady 3d are also strictly first class. Three of their best sows with litters by Chief Price Again 2d also go in and five open sows. It will be remembered that Chief Price Again 2d was third-prize boar in 1912 at the Iowa State Fair and he weighed at that time 1,024 pounds. If you are looking for the same kind make it a point to attend the Wigstone Bros.' sale on October 11th. When writing for their catalog kindly mention The Homestead. M. T. White will represent The Homestead at the sale and will handle bids sent in his care. See advertisement on page 30.

Sheehan's Last Call.

When it comes to large-type Poland Chinas you invariably think of J. M. Sheehan, Stuart, Iowa, who will make a public sale on October 3d, because he has one of the good herds today in western Iowa. He is offering a draft of seventy head in this sale and he is selling a grand good lot of big, useful boars and sows, and it is going to be a great place to buy. Included in this sale will be twenty-five head of fall boars sired by his noted herd boar, King Wonder, a boar that has made his mark as a large-type sire here in western Iowa. A large per cent of his offering will be sired by this boar, and yet he will have quite a few things in this sale that will be sired by other well-known boars and he has these for those farmers and breeders who have purchased from him before and who want something a little different from his older line of breeding. This in itself makes his sale attractive because he will offer some things that any of the best breeders can use in their herd. Two splendid spring boars sired by Mouw's Chief Price and out of a Big Jumbo sow are listed for this sale and while both are good, one is especially good. He is offering fifteen fall sows in this sale that will make great brood sows. These sows are of the same breeding as the fall boars and some man can pick up some of these sows and establish a herd. There is no better big-type breeding than you will find in the pedigrees of this offering throughout, and it will be a very good place to go to buy a boar or some good sows. Write for his catalog at once and kindly mention The Homestead.

Cameron's Short-horns and Durocs.

On October 6th at his farm near Herman, Neb., Carey Cameron will make his annual sale of Short-horn cattle and Duroc Jersey hogs, and those who know him always look forward to these occasions, as he never fails to put up a splendid offering. He is selling thirty-three head of cattle in this sale and he is selling some very good ones. He is also selling twelve head of Duroc Jersey boars, all of which are spring boars except one and he is a fall boar and a good one. There will be eight head of bulls in the sale and three of these are straight Scotch. He is also selling some good Scotch cows and heifers. Two of the bulls will be Cruickshank Butterflys, one of which is a roan and is sired by Chet, a grandson of the $1,200 bull, Sultan, that Charlie Norton sold to go to Minnesota a few years ago. The dam of this bull is a daughter of Gloster's Choice, second dam by old Red Bud, and third dam by Chief Lavender. A nice red Scotch bull is also sired by Chet and he is out of Barmpton Snowflake, a daughter of the great bull, Banker's Victor. He is also a Cruickshank Butterfly. He is selling an April 15th bull calf, sired by the same bull and out of Butterfly 6th that is one of the choicest young bulls in the sale, and he will be a bargain for the man that can buy him and wait on him to mature. There is a splendid dark roan bull in the sale that is a good one and he is out of a daughter of Gloster's Choice, then comes Red Bud and Chief Lavender. Individually, he is one of the best he will offer in the bull line. There will be seven very choice heifers in the sale sired by Royal Knight, he by the great March Knight. Among the Scotch cows that he is listing is Barmpton Miss, a daughter of Banker's Victor, and she is a cow that he secured from C. C. Norton, who had a reputation for breeding the very best. She is one of the very best cows he will sell and she goes in bred to Chet, also a Norton-bred bull out of one of his best Sweet Charity cows. Another Norton cow that he is listing is Barmpton Snowflake, a daughter of Banker's Victor. Her grandsire was Imp. Bapton Admiral, then comes Imp. Salamis, Imp. Prince Bishop, Roan Gauntlet and other noted Cruickshank bulls. A good two-year-old daughter of this cow will also be sold in the sale and she is sired by a bull called Roan Gloster. Among the thirteen heifers is Nelly Gloster, a richly bred Orange Blossom, and she is good enough to go into any herd. A nice roan heifer called Secret, sired by Royal Knight is one of the good ones and she is a richly bred Cruickshank Secret, and there is a good heifer out of Barmpton Miss in this sale, called Barmpton Pearle. Another heifer that we cannot refrain from mentioning is Moss Rose, a rich roan sired by Royal Knight, and while not absolutely Scotch she is nevertheless the best heifer individually in the sale. Charlie Loughlin, a neighbor breeder who has been buying from Mr. Cameron for a number of years sells five cows in this sale with calves at foot, three yearling heifers and one bull. Among these is Jennie B., a six-year-old daughter of Imp. Victoria's Count, a bull that formerly headed the Cameron herd. She is a good red cow and sells with an extra good bull calf at foot. Carl Hansen, also another neighbor breeder, who has always bought the very best is selling two good cows and two choice heifers in this sale. We never saw Carl Hansen buy a poor one and as he is a good caretaker you can expect he will have some good things to offer on this occasion. There will also be twelve head of good Duroc Jersey boars in the sale. Write Carey Cameron, Herman, Neb., for a catalog and kindly mention The Homestead. See page 28

Handley's Big-Type Durocs.

For the last time we want to call attention of Homestead readers to the big-type Duroc Jersey sale of E. E. Handley, Carroll, Iowa, October 3d. Mr. Handley has built up a reputation for breeding the big Durocs and he generally has what the people are looking for. He formerly owned that great boar, Colonel Sensation, the 1,050-pound boar that showed this year at Des Moines and some of the best sows in his herd are daughters of this great sire. He is selling thirty growthy spring boars in the coming sale and a large number of these are sired by the 1,000-pound boar, Frankfort K. Old Frankfort K. was one of the most consistent winning boars that has been seen in later years on the western state fair circuit. He first came into notice at the Nebraska State Fair a number of years ago where he landed first prize as a pig. He then was shown at the Interstate Fair at Sioux City where he was also victorious and later as an aged boar he came back and landed first prize and grand championship. He was one of the largest boars that was ever shown at that fair. Mr. Handley has a splendid offering for the boys and those who are going to want a good boar or a few choice gilts will do well to attend this sale. His catalog is now ready and can be had for the asking. Mention The Homestead when writing for it. Our M. T. White will represent The Homestead at the sale.

TOO LATE TO CLASSIFY.

ABERDEEN-ANGUS
COWS AND HEIFERS FOR SALE

WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
CHAS. ESCHER & SON - - - **BOTNA, IOWA**

C. F. ADAMS' SALE OCTOBER 9, 1913

I WILL sell 40 Poland China boars, the best I have ever offered and also a fall yearling by Peter Mouw's Big Jumbo. These are the biggest, best, longest, heaviest bone pigs I have ever owned. Many prospects for 1,000 pound herd boars. Write for catalog.
C. F. ADAMS - - - **OWASA, IOWA**

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune**, and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - - **IRETON, IOWA**

OAKWOOD FARM POLAND CHINAS
C. H. PORTER - EAGLE GROVE, IOWA

MY entire herd have been given the simultaneous treatment and are now in good thrift and cholera proof. Boars as big and good as anybody has for sale, and of the line of breeding that never fails to get them big and good, the real size and quality kind. They are better than I have raised before.

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address
WOOD & WESCOTT - - **SHEFFIELD, ILLINOIS**

I SHIP C. O. D.

CHOICE Chester White swine. Either sex, Pairs, no akin. On account of dry season in this section and must buy feed I am offering choice, growthy spring pigs of best breeding at special low prices for thirty days ending November 1st. Also booking orders for fall pigs at $5.00 each, crating and pedigrees free. I have new blood for old customers. **GLENN F. RIDER** - - **FARMINGTON, IOWA**

MARMION'S BIG POLAND CHINAS

I CAN furnish you with as good a pig as can be found in the corn belt. Pigs sired by five of the best boars of the breed, some by one of the good sons of Rood's Giant and out of a Long King sow. Also a litter by Big Knox.
B. F. MARMION - - **R. F. D. 2, FARMINGTON, IOWA**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Short-horn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.
ORVILLE O. JONES - - **R. F. D. 1, YORK, NEBRASKA**

Fisher's Prize Winning Hampshires

THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address
ROY E. FISHER - - **WINSIDE, NEBRASKA**

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 60 excellent gilts at $25 and $30 per head, all sired by Big Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.
J. B. HEISEL - - **GRINNELL, IOWA**

FOR SALE

After October 15th,

PERCHERON STALLIONS

from 2 to 5 years old. **Singmaster & Walker,** at Stock Yards, Sioux City, Iowa.

BERKSHIRES

BOARS in service are Longfellow's Premier by Premier Longfellow 68600, Baron Peabody 10th by Baron Duke 88th 91888. Forty fall and spring boars for sale. Mention Homestead and address
GEO. PORTER - **STANTON, NEB.**

22 BERKSHIRE BOARS FOR SALE

I HAVE two splendid fall boars and 22 good spring boars for sale. These are sired by Rob Roy 10th, a prize winner at Des Moines, and Model Master 2d. Write me at once for prices.
H. L. KEMP - - - **HARLAN, IOWA**

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - **DICKENS, IOWA**

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - **Sheldon, Iowa**

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa

Boars For Sale
Sired by CRIMSON WONDER AGAIN

MODEL Chief 8th and Cherry Chief. Big, husky fellows with bone and size. Priced to move them. Address
H. S. ALLEN - - **RUSSELL, IOWA**

Cedar Hill Short-horns

SOME extra good yearling bulls sired by the 2,200-lb. Secret Hero; also a pure Scotch herd bull. We keep a great line of heavy milking cows. Mention The Homestead and address
IRVIN E. WILSON, BELVIDERE, NEB.

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - West Liberty, Iowa

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

Short-Horn Bulls

FOR SALE. Reds and roans sired by Mr. Robin 338773, a richly bred Marr Missie. Address for prices, mentioning The Homestead,
I. H. Whitman - - - - - Lisbon, Iowa

50 Immune Duroc Jersey Boars

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr.. Splendid boars at $25 and $30. Everything vaccinated and ready to ship.
HEIKO GRUIS - **GEORGE, IOWA**

LOCATION WANTED for AUCTIONEER

GRADUATE auctioneer, reliable, experienced and successful wants to learn of community in need of auctioneer.. Reference supplied to anyone interested. Address
Auctioneer, care Homestead, Des Moines, Ia.

Duroc Jersey Boars

WE have fall and spring boars that have quality, that we are closing out. A number of these are prospects for herd boars. Satisfaction guaranteed.
J. H. Berry & Sons, R.F.D. 6, Iowa City, Ia.

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when waiting. **F. O. Peterson, Galva, Ia.**

SECOND ANNUAL PUBLIC SALE

140 HOLSTEINS

STERLING, ILL., OCTOBER 21-22, 1913

100 COWS 30 HEIFERS 10 BULLS

THIS sale is rich in the blood of the greatest families: **KING SEGIS, HENGERVELD DE KOL, The KORNDYKE, AAGGIE CORNUCOPIA JOHANNA LAD, PAUL BEETS** and **other noted** families. Many of the cows have large A. R. O. records. All our splendid milkers that give from twelve to twenty thousand pounds per year. **Including Ten Record Daughters** of that great young sire

SIR NETHERLAND CORNUCOPIA

and bred to

PRINCE HENGERVELD SEGIS

whose two nearest dams average over 31 lbs. butter, 600 lbs. milk in seven days; whose seventeen nearest dams average over 25 lbs. butter and over 500 lbs of milk in seven days. Choice heifers bred to

KING CORNUCOPIA HENGERVELD SEGIS

whose four nearest dams have records that average over 32 lbs. butter and 584 lbs. of milk for seven days, and the average record of his 17 nearest dams is over 26 lbs. butter and over 500 lbs. milk for seven days.

10 GREAT YOUNG BULLS, two of them state fair winners, and the rest of them out of high-record dams and by great sires. The cows are the kind that have made

WOODLAWN FAMOUS FOR WORKING HOLSTEINS,

the strong, persistent, steady, all-the-year-round milkers. All cattle over six months tuberculin tested. All are registerd and transfers will be furnished promptly.

No Better, More Reliable, Dependable Lot of Cattle will go Through Any Sale Ring This Year

Send for catalog. Plan to attend and see for yourself the greatest working farm dairy in the West. Mention Homestead. Address

WOODLAWN FARM - - - STERLING, ILLINOIS

LARSON'S

KING THE COL. SALE

Logan, Ia., Tuesday, Oct. 7, 1913

40 HEAD—35 Choice Boars (15 sired by the great boar, King The Col.)—5 sows, two with breeding privilege to King The Col. 40

I AM selling some great boars sired by King the Col., the most noted Duroc Jersey boar now living, and these will do to head any herd. Others sired by **Proud Chief, Model King, Crimson Wonder 3d, Advance Critic, Select Chief** and other well-known sires. Write for my great catalog and mention The Homestead. Col. N. G. Kraschel, Auct. M. T. White, fieldman for The Homestead. Address

O. S. LARSON - LOGAN, IOWA

PAULSEN'S GREATEST HAMPSHIRE BOAR SALE

----- WILL BE HELD AT -----

FREMONT, NEBRASKA, FRIDAY, OCTOBER 10, 1913

65 BOARS GO IN THIS SALE 65

EVERY one of the sixty-five boars that go in this sale has been carefully selected, and not a thing but of exceptional value will be included. They are every one from the Paulsen herd and by sires of national reputation, among them the great Everett True 3d, Nebraska Top and Paulsen's Chief by Gen. Allen. They are out of one of the greatest lines of brood sows in America and they have all passed through the disease and are considered immune. They are all of good strong ages, being yearling and fall boars. Come to this sale if possible, or send bids to J. C. Price, representing The Homestead. Colonels Kraschel and Reppert, auctioneers. Send for catalog today. Address

C. P. PAULSEN - - - - NORA, NEBRASKA

When Writing to Advertisers Please Mention The Homestead

The Lockridge Short-horn Sale.

Forty-two years ago S. F. Lockridge embarked in the breeding of Short-horn cattle, and from that time to this has been constantly engaged in producing specimens of his favorite breed that would meet with the approval of a discriminating public. The work accomplished by Mr. Lockridge is well known. He has carried on his operations in a quiet way, never making any great display of his work, but he has accomplished results that have demonstrated his ability as a constructive breeder. In all these years Mr. Lockridge has made but four public sales, always disposing of his surplus cattle at private treaty, and the fact that he has decided to make an offering from his herd at Chicago, October 13th should attract wide attention. For this sale he has selected forty head from his herd, all but two of which were bred by himself. These cattle were recently inspected by a representative of The Homestead, and found to be a lot of cattle that can be recommended to the buying public in every way. Mr. Lockridge has never followed any fads in his breeding operations. Common sense and good judgment have been the basis of his work. He has always used the very best bulls that he could secure, mating them with high-class matrons, having the production of a definite type of cattle in view, and the animals that he will offer at Chicago October 13th will be a credit to him and his work in every way. In the list are seventeen cows, thirteen of them with calves at foot and at no sale this year has there been presented a better lot of matrons. They are all good young ages, with scale and conformation, and bred along the most popular Scotch lines. In fact, it is doubtful if there is today a herd that has more real Cruickshank blood in it than can be found in Mr. Lockridge's cattle. These cows are all producers in the strongest sense of the word, and would look well in any man's herd. Sixteen heifers, all bred but three, are catalogued, and they are a toppy lot in every particular. Seven bulls are listed, and the list includes both herd heading prospects and the best of steer-getting material. Mr. Lockridge raises his cattle under conditions that tend to future unefulness, and the reader of The Homestead that is in the market to buy Short-horns of the right type and most approved blood lines should not overlook this sale. The cattle come from one of the best herds in the country, and they are presented by a gentleman who is the soul of honor, who has been a faithful adherent of the Short-horn for nearly half a century, and who has demonstrated his faith by his works. There is no need to particularize regarding this lot of cattle. They are all good, and they will please you on sale day. The catalog should have wide distribution, and the sale a liberal patronage. Write today for the catalog to S. F. Lockridge, Greencastle, Ind., mentioning The Homestead when you write. The advertisement will be found on page 32.

At Beaver Dam, Wisconsin.

When at the Dodge County Fair (Wisconsin) be sure and call on H. B. Drake & Son, the veteran Short-horn and Poland China breeders. You will see some excellent Short-horn animals of A-1 breeding. Their herd sire is a big, fine roan weighing over 2,400 pounds, but in spite of his great size, his skin has most wonderful handling qualities, showing his fine quality. His name is Broadhooks Prince and he is a son of Anoka Sultan, a son of Whitehall Sultan. It is but a short drive to the farm of Mr. Schoenfeld, one of the oldest and largest breeders of Short-horn cattle and Poland Chinas in the state. Mr. Schoenfeld purchased his foundation stock from the famous Sherman Stock Farm at Burnett, which was the most noted stock farm in the state thirty years ago. Mr. Schoenfeld supplemented this fine stock in buying some of the winners at the Chicago World's Fair. From here it is but a few rods to the farm of Richard Maurer & Sons, breeders of Short-horn cattle and Duroc Jersey hogs. Here you will find a collection of exceptional Scotch top Short-horns. Their herd bull, Village Hero, is an excellent animal of great size, fine quality and typical Short-horn conformation. Their young bull, Mars Premier, is also a fine animal, and his breeding is of the best. His dam was of the Mars Emma strain and his sire was Clipper Stamp, which was a son of Premier, the $4,500 bull. John Keller is another breeder of Duroc Jerseys, and a visit to him will result profitably to a buyer. He is located directly opposite the fair grounds, so is very convenient to call on. H. E. Krueger, the well-known seedsman, is also located near Beaver Dam, and a visit to his farm is well worth while. He is raising large Yorkshire hogs, and has some fine individuals. It will pay you to take the time to visit these men, if interested in these breeds of live stock, when at the Dodge County Fair, Beaver Dam, Wis.

Jones' Poland Chinas and Short-horns.

Orville O. Jones, York, Neb., advertises Poland China hogs and Short-horn cattle on page 31 of this paper. Mr. Jones has given his herd of hogs the simultaneous treatment and is now prepared to ship them as immune from attacks of cholera. He has a number of unusually good boar pigs sired by Jumbo the Great and Long Chief Jr. He will sell these at low prices to quick buyers in order to reduce feed bills. All his sows and gilts will be reserved for a sale to be held February 21st next. He has also two good yearling Short-horn bulls, the get of Pleasant Lawn Knight. The sire is an unusually large animal and the youngsters offered for sale are good individuals as well as having also promise of size. Write to the address named for particulars.

Blake's Poland China Sale.

R. R. Blake, Dallas Center, Iowa, announces a public sale of Poland China hogs to take place at his farm three miles north of Waukee, Iowa, October 13th. Mr. Blake has an attractive offering for this sale and he has not taken any pains to put them into more than good, thrifty, breeding condition. They have been immunized by the simultaneous treatment and will be safe to buy. There will be forty-five head in all, thirty-five boars and ten sows. A dozen fall boars are of September, October and November farrow. Nine of these are by Long King, others being by Smooth Wonder 2d Jr. and Columbia Chief 3d. The spring boars, of which there are thirty-two, are by Long King, L.'s Big Bone, Smooth Wonder Again, H.'s Big Bone and Big Nelson. Eight fall sows are by the same sires. The dams of the offering are great big, well-formed animals that carry the most popular strains of big-type blood. They trace to Smooth Wonder, Chief Price, Chief Price Again, Wonder A., Chief Price 2d and others from the Mouw, Miller and herds of like importance in the production of big-type hogs. Mr. Blake has consented also to include his herd boar, Smooth Wonder Again. This fellow is three years old, a son of Smooth Wonder 2d by A Wonder, dam by a grandson of Nemo L.'s Duke. This is a cross of strains of blood which have always been productive of most satisfactory results. The only reason this hog is being put into the sale at this time is because the farm is well populated by his get and he can not be used further to any advantage. Those who attend the sale by rail are requested to come to Waukee, Iowa. Send mail bids to C. C. Carlin, of The Homestead. For catalogs address R. R. Blake, Dallas Center, Iowa.

Wm. Reed's Duroc Sale.

Wm. Reed, Rose Hill, Iowa, will make a select offering of Duroc Jerseys at his farm adjoining town on October 8th. Fifty head will be sold and among them are some boars of herd-heading character and the best bunch of sows and gilts Mr. Reed has ever offered. There are three good fall boars. One of them is an extra large, heavy-boned, smooth fellew sired by Reed's Top Col. and out of a dam by John's Ohio Chief. Reed's Top Col. is sired by Top Col., and out of an Ohio Chief sow. Thus it will be seen that this boar is a very intensely bred Ohio Chief and Col. boar. Among the spring pigs is an outstanding show pig by Chief Select and out of Fair Wonder 2d by J. C.'s Model Chief. This pig is a toppy fellow with a world of quality and has a good set of feet and legs. He is a full brother to the pig that sold for $190 in Mr. Reed's sale last year. The spring boars and gilts are about half sired by Chief Select and Reed's Top Col. Six fall sows by Reed's Top Col. are extraordinarily good. Some good breeder should buy these sows to place in his herd or if bred to a good boar they would be sale toppers this winter. The boars in Mr. Reed's sale are good, but we want to put strong emphasis on the gilt end of this offering, as we have never seen a better bunch of gilts pass through a fall sale than those Mr. Reed will offer. See page 29 and write for catalog mentioning The Homestead. Bids sent to Carlos C. Palmer, Homestead representative, care of Mr. Reed will receive careful attention.

Horswell's Dispersion Angus Sale.

For the last time we want to call Homestead readers' attention to the dispersion Aberdeen Angus sale of J. R. Horswell, at Estherville, Iowa, on October 1st. It is going to be an excellent place to buy some good Angus cattle, and the breeder who is in need of a good herd bull will find in Black Ensign an unusually well-bred bull, as well as an exceptional individual. This splendid son of that celebrated Black Woodlawn and out of the great cow, Ellore, that was one of the highest-priced cows in the Donohoe sale, is a herd bull of more than ordinary merit, and some breeder is going to get a great bargain in him. Were it not for the fact that Mr. Horswell is going out of the business you could not buy this bull at any price, and that is the only reason that breeders will have an opportunity to buy him in this sale. About fifteen young bulls will also be included, as well as all of their breeding cows and young heifers. A good sprinkling of lackbirds, Trojan Ericas, K. Prides and other good families make up the list. Mr. Horswell has been breeding Angus cattle for a number of years and has bought liberally of the best, and in consequence you will find he has some good things cataloged for this sale. If you have not got the catalog send for it at once, but be sure to go to the sale, as there will be some splendid bargains in this dispersion. Mention The Homestead when writing for catalog.

Nagle's Chester Whites.

E. L. Nagle & Son, Deep River, Iowa, write under recent date as follows: "Our Chester Whites are doing fine. We have twenty-two spring boars and thirty-five gilts that are a grand good bunch. There are many show prospects among them. We still have for sale the first-prize boar at Des Moines this year and he was at the head of the first-prize young herd, also herd bred by exhibitor, first in produce of sow, second in get of sire and it looks like he had winnings enough for anyone that wants a herd boar and he is as good as his winnings. We have won more premiums on pigs than any other exhibitor at the state fairs." See page 38 and write your wants, mentioning The Homestead.

SHORT-HORN --- PERCHERON --- POLAND DISPERSION

TO BE SOLD AT FARM, NEAR IOWA FALLS, IOWA, FRIDAY, OCTOBER 10, 1913

50 SHORT-HORNS, 12 PERCHERONS, 50 POLAND CHINAS. Everything sells to the highest bidder and there will be many bargains. Note sample of Short-Horn pedigrees below

Lot 15 Roan Buttercup 4th 135510 Cow

Roan; calved April 16, 1911. Bred by F. A. Schaefer & Son; owned by Frank T. Pemberton.

DAMS	SIRES	BREEDERS
	Got by Village Archer 305469	F. A. Schaefer
Roan Buttercup 2d 50970	Secret Victor 234384	J.F.&J.W.Prather
Imp. S. Buttercup 24th	Bright Star 180001	A. M. Gordon

Lot 5 Miss Laura 52206 Cow

Red; calved May 2, 1908. Bred by F. A. Schaefer; owned by Frank T. Pemberton.

DAMS	SIRES	BREEDERS
	Got by Choice of Archers 236685	E. R. Bagby
Imp. Lady Laura 12th	Statesman 151451	W. S. Marr
Lady Laura 10th	Beaumont 151427	C. M. Cameron

Lot 8 Archer's Victoria 2d 52196 Cow

Red; calved September 14, 1908. Bred by F. A. Schaefer; owned by Frank T. Pemberton.

DAMS	SIRES	BREEDERS
	Got by Choice of Archers 236685	E. R. Bagby
Victoria Funke	Favorite of Pike Cr'k 115509	P. Erbe
Victoria Veech 5th	Earl Marshal 92167	Wm. Duthie
Imp. Victoria 73d	Roan Gauntlet 47276	A. Cruickshank

Lot 13 Imp. Stowan Buttercup 24th Cow

Roan; calved March 2, 1901. Bred by C. H. Graham; owned by Frank T. Pemberton.

DAMS	SIRES	BREEDERS
	Got by Bright Star 180001	A. M. Gordon
Strowan Buttercup 7th	Defender (63865)	J. McWilliams

Lot 30 Village Dorothy 135516 Cow

Roan; calved August 30, 1911. Bred by F. A. Schaefer & Son; owned by Frank T. Pemberton.

DAMS	SIRES	BREEDERS
	Got by Village Archer 305469	F. A. Schaefer
Royal Dorothy	Royal Prince 245987	E. R. Stangland
Imp. Lady Dorothy 22d	Cornelius 181296	A. M. Gordon

Lot 25 Archer's Lavender 135498 Cow

Red; calved June 21, 1911. Bred by A. F. Schaefer & Son; owned by Frank T. Pemberton.

DAMS	SIRES	BREEDERS
	Got by Village Archer 305469	F. A. Schaefer
Sultan's Lavender 68895	Sultan 227050	E. S. Kelly
Lavender Lady	North'n Light 2d 136785	Robert Davies
Edna	Allan 137093	C. M. Simmons
Imp. Lavender 41st	Dunblane 65995	A. Cruickshank

There are 35 Scotch Cattle. The Two Herd Bulls, FAVORITE GOODS and SNOWFLAKE, Also Sell

12 PERCHERONS—Consisting of the imported six-year-old stallion, Hihi; two elegant imported three-year-old black mares, one stud colt and the balance mares and fillies. All recorded in Percheron Society of America. A high-class lot and will sell to highest bidder.

50 POLAND CHINAS—Twenty boars and thirty gilts. Nearly all fall yearlings by Mammoth Jumbo, Long Victor, Mastodon Wonder and others and out of sows by Crow's Kind, Mastodon Wonder, Big Halvor, Coming Wonder and others. This sale ends the circuit of W. H. Cooper, October 7th; W. S. Chasey, October 8th; C. F. Adams, October 9th, and this sale October 10th. Write me for big catalog, mentioning The Homestead. H. S. Duncan and W. H. Cooper, auctioneers.

FRANK T. PEMBERTON - : - IOWA FALLS, IOWA

Jerseys and Poland Chinas at Rosendale.

Scribner & Son, the well-known and successful breeders of Jersey cattle, at Rosendale, Wis., have a beautiful herd. Their females are principally of St. Lambert and Pedro strains, and in conformation, udder and vein development and quality of hair and skin, show the breeding which they have, and the care they get. The herd bulls are excellent animals. The older one, Lomas King, of St. Lamberts King, is an animal of great size. His skin is as soft as velvet and his back is straight with open backbone and thin at the withers. His sire was King of St. Lamberts King, that has forty-three tested daughters, and his dam was Loma of Maple Glens, that has a record of fourteen pounds of fat. Another herd bull is Viscount of St. Lamberts, another pure St. Lamberts bull. He is also of extreme fine quality, yet of large size. He is a grandson of the famous bull, Rioter of St. Lamberts, that has fifteen tested daughters with records up to twenty-two pounds. A young bull recently purchased is Magnate's Sophie Lad, sired by the great show bull, Magnate's Golden Interest. He is also a grandson of Magnate's Interest, that holds a record of 833 pounds of fat. He traces back to Sophie Tormentor, of the famous Hood Farm breeding, and also to Brown Bessie's son, the grandsire of Sophie 19th, that made 1,110 pounds of fat in one year. The Scribners recently began testing and already have twelve Register of Merit animals, and will have several more under test the coming season. In their big-type Poland China herd is a female which is a daughter of Big Halvor, the 1,000-pound boar, owned by C. F. Adams, of Iowa. She is a long, short-legged, arched-backed sow, of great promise. The herd boar is a son of Grand Chief, a 900-pound boar. This boar is but six months old, yet he measures forty-four inches from base of ears to root of tail.

Marmion's Big-Type Poland Chinas.

Readers of this paper who are in search of good Poland China boars should read the advertisement of B. F. Marmion, Farmington, Iowa, which appears on page 31. The gentleman offers for sale some of the best big-type boars to be obtained. He can supply females also, and will fill orders for single animals, pairs or small herds not related. In this herd are the get of five of the best breeding boars of the breed. Mr. Marmion is offering an unusually good pig, one that has an excellent head and strong, well-arched back, is well filled behind the shoulders and has as good feet and legs as could be wished for. He weighs a little better than 250 pounds. Another pig sired by Big Knox and from a dam tracing to Chief Price 2d is a little younger, but nearly as good in every particular and right in quality and markings. These pigs have not been stuffed, but just kept growing so that if well cared for they will continue and make immense hogs that will do lots of good to their owners. A little brother of the first pig mentioned is an attractive fellow, although he may not have quite so much quality. He is more stretchy and looks like the kind that will sire big litters of good pigs. Those who are intent upon increasing the size of their hogs should get into correspondence with this herd. Address inquiries to B. F. Marmion, R. F. D. 2, Farmington, Iowa.

Woodlawn Farm Holstein Sale.

The big fall event in Holstein cattle circles will be the sale of 140 head at Woodlawn Farm, Sterling, Ill., October 21st and 22d. One hundred cows, thirty heifers and ten bulls are listed, all representatives of the greatest families known to the breed. Many of the cows have A. R. O. records and all are splendid milkers. There are ten record daughters of Sir Netherland Cornucopia in the list, all bred to Prince Hengerveld Segis, a bull whose seventeen nearest dams average over twenty-five pounds of butter and over 500 pounds of milk in seven days. There are also a number of extra choice heifers bred to King Cornucopia Hengerveld Segis, a bull whose seventeen nearest dams have a record of over twenty-six pounds of butter in seven days. The ten bulls cataloged are all by great sires out of high-record dams, and two state fair winners are in the list. This will give the reader some idea of the merit of the cattle cataloged for the sale. Woodlawn Farm is noted for its working Holsteins, its all-the-year-round milkers, and parties who attend this big sale can rest assured they will have an opportunity to place sale values upon a decidedly meritorious lot of cattle. A visit to Woodlawn Farm is time well spent whether you buy anything or not, as it is one of the big dairy propositions of the country. Over 1,000 acres of land are embraced in this farm and all operations are carried out on a big scale. More details regarding this sale will appear in later issues. In the meantime look up the advertisement on page 32 and write for a copy of the catalog to Woodlawn Farm, Sterling, Ill., mentioning The Homestead.

Miller & Northy's Short-horns and Percherons.

An important event in Short-horn circles will be the dispersion of the Short-horn herd of Miller & Northy, Morley, Iowa, October 9th. This herd has been pronounced one of the best in the state of Iowa by breeders who are in position to know. The herd of females is high class in every particular. A Homestead representative has looked over the offering and considers this herd of cattle the equal of any to be found in plain working condition. Fifty head are cataloged consisting of ten bulls and forty females. The nine-year-old herd bull, Diamond King, is as vigorous as a two year old and after inspecting his many daughters in the pastures we believe he is entitled to rank as one of the great sires of the breed. Diamond King is sired by Bapton Admiral and out of Imp. Diamond 32d. At his advanced age with a little fitting he would make a good show. Their other herd bull, Sterling Scottie, is a three-year-old son of Sterling Knight, he by Imp. Red Knight. The grandam of Sterling Scottie is Imp. Flower Girl by the great sire, Knuckle Duster. Sterling Scottie is a bull with good lines, lots of character and should prove a good sire. There will be eight young bulls of good quality. Among them is Prince by Lord Hampton and out of Nonpareil by Lavender Prince. This calf is a deep, thick, good lined fellow and should make good. The best young bull in the sale is sired by Diamond King and out of Gladys. He is a very promising youngster and with proper care will make a great bull. One of the best cows to be sold at auction anywhere during the coming season is Roan Lady, a four-year-old massive, roan cow by Diamond King and out of Gladys by Scottish Chief, tracing to the Imp. Scotch Louisa family. Roan Lady will weigh around 1,800 pounds and has had no feed other than blue-grass pasture. It is her kind that should produce herd bulls of the highest order. Red Rose 4th is a good seven-year-old red cow by Sittyton Royal and her grandam is Imp. Red Rose by A Master of the Ring. She has a good bull calf at foot. Flora Dora is a ten-year-old cow by Money Musk. She is of the Beauty family and was good enough to win first at the Iowa State Fair in 1904. She has proven an excellent breeder and has three good daughters in the sale. In the next issue of The Homestead we will have more to say in regard to the females of this offering. In the meantime anyone interested in really good Short-

The photo shown herewith, taken on the farm of C. P. Paulsen, Nora, Neb., is that of a group of some Hampshire swine, the equal of which is seldom seen. Sixty-five boars of this class will be sold at Fremont, Neb., on October 10th. Kindly notice the advertisement on page 32.

THE BEST LOT OF HEREFORD HEIFERS

Ever Sold From the GUDGELL & SIMPSON Herd Sell at the Farm Near

INDEPENDENCE, MO., SATURDAY, OCTOBER 11, 1913

AMERICAN ROYAL WEEK **50 2-YEAR-OLD BRED HEIFERS 50**

TWENTY-TWO daughters of Domino, 16 daughters of Beau Picture, 4 daughters of Beau President, 2 daughters of Britisher, 2 daughters Beau Dandy, 1 by Beau Modest, 1 by Bright Stanway. They have size, conformation, quality and are the modern type. All safe in calf to Bright Stanway, Beau Modest and Beau Dandy. For foundation stock or to add to good breeding herds they are the kind to buy. **10 Choice Yearling Bulls** contributed by John Lenox, Independence, Mo., are well bred and good. Send now for catalog, mentioning The Homestead. Cols. Reppert, Zaun and Snell, auctioneers. Address

GUDGELL & SIMPSON - - - - - INDEPENDENCE, MISSOURI

horn cattle should write these gentlemen, kindly mentioning The Homestead. We cannot too strongly recommend their herd of females to the buying public. See the advertisement on page 29.

A Helpful Library.

A series of handy and practical booklets, of much value to every farmer, is being distributed, absolutely free, by the Southern Cypress Manufacturers' Association, Room 102, Hibernia Bank Building, New Orleans, La. The latest volume is entitled "Short Cuts to Good Carpentry on the Farm" and shows how twelve difficult carpentering jobs may be done by the ordinary farmer, without outside aid and at a minimum of cost. The book is so complete in detail and so sound in its practical advice that we urge upon every reader the great advisability of sending for it at once, particularly as it will be furnished without a cent of expense. We have no hesitation in endorsing the entire series of booklets which the Southern Cypress Manufacturers' Association is issuing, free to all who desire them. One is known as "The Barn Book," another is "The Farm Needs Book," a third is "The Silo Book," and so on. The primary object of these valuable booklets is to show the many and valuable possibilities in the use of cypress, rather than the more costly and less durable woods, but regardless of any possible sales the association is doing a good work in placing such practical booklets in the possession of so many farmers, without any expense. A request for a booklet does not involve the writer in any manner, while at the same time it brings a return, the value of which is unquestioned. We would be glad to see these cypress booklets in the possession of every one of our readers. Further details of the offer may be found in the advertisement of the Southern Cypress Manufacturers' Association on page 18.

A Premier Chester White Sale.

An announcement which should attract the attention of Chester White breeders everywhere, as well as farmers who are in the market for choice animals of that breed, is that of M. W. Young on page 29 in which he presents what is practically a closing-out sale of his herd. It is and has been a good herd. It has one strong, commending feature above all others and that is strict uniformity of type. In this case it means also backs wide, well arched, well ribbed out and better from every point of view than can be found in any other herd of the breed in equal numbers. This extraordinary merit was obtained by care in the selection of the foundation stock as well as by close culling of animals of less desirable merit. The foundation came from the Reese, Hoover, Newburn and one or two other herds of exceptional standing as producers of the very best Chester Whites. There will be aged sows, spring sows, fall boars and spring boars. They will be the get of O. K. Perfection (a Reese-bred hog that on the side of both sire and dam came from champion prize winners); Prince B. (a Hoover-bred hog that traces to Hoover's most popular line of prize winners); Grand Leader (a hog bred by Newburn, recognized for many years as the greatest Chester White showman in the business); Combination (a hog whose string of champion ribbons is an exceedingly long one); New Hampton Regulator (a descendant of high-prize winners) and St. John (a junior champion at the Illinois, Wisconsin and Minnesota State Fairs and the grand champion at the latter in his under-a-year form). Most of the spring pigs in the sale are the get of the latter hog. Altogether the consignment contains merit such as goes to make up the best and most practical breeding form. The sale will be an opportunity for those who want to secure better animals than they have, as well as those who contemplate founding herds. Although Mr. Young does not say so, it is also a fact that men who know their business can find in this lot of hogs show prospects for another year that cannot fail to respond to proper treatment. We urge every reader of this paper to obtain a copy of Mr. Young's catalog and remember that the sale takes place at Ankeny, Iowa, which is located on the Des Moines branch of the Chicago & Northwestern railroad and on the Fort Dodge, Des Moines & Southern electric line, so that the facilities for getting in and out on sale day are exceptionally good. Those who are unable to attend may send mail or wire bids to C. C. Carlin, of The Homestead. For catalogs address M. W. Young, Ankeny, Iowa.

Kent's South Dakota Winnings.

At the South Dakota State Fair, Thos. F. Kent, Walnut, Iowa, well-known breeder of Chester Whites, won thirty ribbons among which was four championships, fourteen firsts, nine seconds, one third and two fourths. Among these was: First and second on aged boar, first on junior yearling boar, first on under-year boar; first and second on aged sow, first on senior yearling sow, first and second on junior yearling sow, third and fourth on under-year sow, first on undef-six-months gilt, championship boar on Combination I. X. L., championship sow on Kent's Kind, championship boar bred by exhibitor on Combination I. X. L., championship sow bred by exhibitor on Kent's Kind, first and second on aged herd, first and second on aged herd bred by exhibitor, first and second on young herd, first and second on young herd bred by exhibitor, first and second on get of sire, first and second on produce of sow. If you are wanting a Chester White boar or a few choice sows, all descendants from prize-winning stock write Thos. Kent. He can fill any kind of an order you may send him. Kindly mention this paper when writing him. See advertisement on page 38.

Kool's Poland China Sale.

On October 8th, as per announcement on page 28, A. Kool, Cordova, Iowa, will make his annual fall sale of Poland China hogs. It will be a good offering, one which possesses size, because of the size of the ancestors, and one which has quality, because quality has been a strong point in the herd and in the breeding that has gone before. Mr. Kool's principal herd boar is Big Victor's Improver, he a son of Lonergan's Big Victor, and an animal whose breeding leaves little to be desired. Big Victor's Improver is a big fellow, a hog with quality and finish, and his get have possessed those merits in a high degree. Quite a proportion of the stuff offered for sale will be by him and others will be the produce of his daughter. In all there will be four spring gilts, three fall gilts, thirteen fall boars and twenty spring boars. With one or two exceptions those not by Big Victor's Improver are by Jumbo, an unusually big fellow of popular big-type lines of breeding. There will be one spring boar by Smooth Wonder 2d and out of the 1,000-pound Long Model 3d, she by Long Wonder. Mr. Kool calls this fellow the best thing in the sale and considers him as having great promise of a high-class herd boar. There are four boars out of Queen 1st, a 900-pound sow and daughter of Dandy Jim, one of the best herd boars bred by Lentz, Ankeny, Iowa. These are by Big Victor's Improver and they are the right sort. There are two extra good ones by Lady Lightfoot 29th that have a combination of Jumbo and Big Victor's Improver blood. Four other good ones are out of Daisy 2d, she the daughter of Wonder Daisy, one of the best of the Peter Mouw bred sows. They are by the grandson of Big X. Two gilts and three boars are by Jumbo and out of Lady A., she by Big King, a daughter of Lady Lightfoot 5th and Big Victor's Improver. These are highly creditable pigs. Three other Jumbo pigs, two gilts and one boar, are out of Molly 4th, one of the best sows in the herd. Two extra good fall boars, big fellows, big boned and with lots of quality, are by Big Victor's Improver, and they are certainly a credit to their illustrious sire. Two fall boars and three fall sows by Jumbo are out of King's Lady 2d, she by Big King. Their grandam was by Hadley Expansion. There is a lot of other important information connected with this sale consignment which will appear in later issues of this paper. In the meantime, remember that the sale will be held at the farm three miles south of Otley on the C. R. I. & P. railroad and one mile north of Fifield on the Wabash road. Mail bids may be sent to C. C. Carlin, of this paper. For catalogs address A. Kool, Cordova, Iowa.

FRANK RAINIER'S

CHIEF PRICE AGAIN SALE

LOGAN, IOWA, OCT. 4, 1913

42 HEAD. 31 Boars, 11 Sows 42

I AM selling 16 head of spring and fall and summer boars that are sired by my sensational show and breeding boar, **Chief Price Again.** Also some choice gilts by same boar, and two sows that will sell with litters by **Chief Price Again.** Also some good boars by **Big Wonder, Monarch Chief, Long Orange** and **Long Chief.** Write for my great catalog at once and mention The Iowa Homestead. Address

FRANK RAINIER - - LOGAN, IOWA

H. S. Duncan, Auct. M. T. White, Field man for Homestead

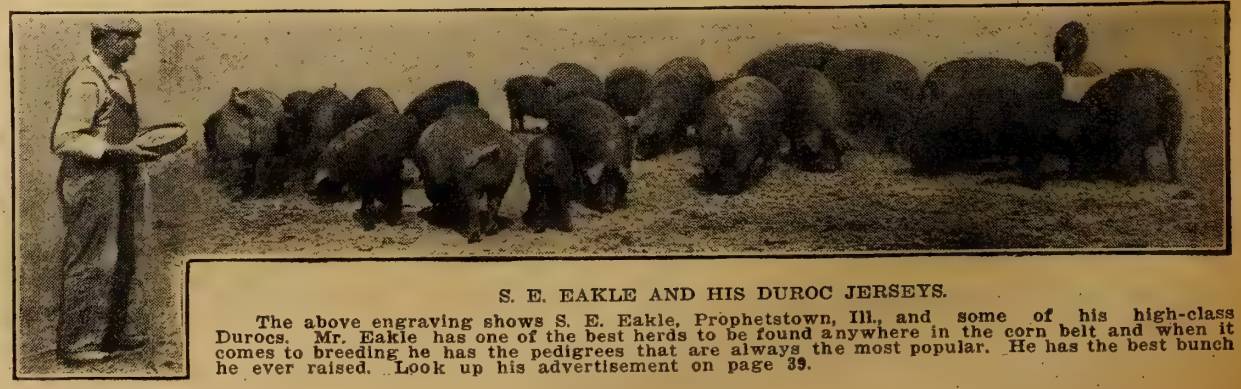
BLAKE'S POLAND CHINA SALE

ON THE FARM NEAR

DALLAS CENTER, IOWA, OCT. 13, 1913

I AM putting into this sale a consignment of forty-five head of Poland Chinas that are just about as good as any offering of the season will contain, although their merit is not concealed by high flesh or fancy fitting. I am putting in my herd boar, Smooth Wonder Again, because I cannot use him longer to any advantage. There will be twelve fall boars by Long King, Smooth Wonder 2d Jr., and Columbia Chief 3d Jr., out of dams of Smooth Wonder, Chief Price and A Wonder breeding. There will be twenty-two spring boars by Long King, L.'s Big Bone, Smooth Wonder Again, H.'s Big Bone and Big Nelson, out of dams of Smooth Wonder, Chief Price and other popular lines of breeding. Eight fall sows are by Long King, Smooth Wonder Jr., and Columbia Chief 3d. Their dams are of much the same breeding as that already referred to. One of these will have been bred to L.'s Big Bone for October litter and the other to Woodrow Wilson, a fifth-prize Iowa State Fair winner, for a November litter. Col. H. S. Duncan, auctioneer. Send mail bids to C. C. Carlin, care of The Homestead. Free transportation from Waukee to the farm. For catalogs address.

R. R. BLAKE - - - DALLAS CENTER, IOWA



S. E. EAKLE AND HIS DUROC JERSEYS.

The above engraving shows S. E. Eakle, Prophetstown, Ill., and some of his high-class Durocs. Mr. Eakle has one of the best herds to be found anywhere in the corn belt and when it comes to breeding he has the pedigrees that are always the most popular. He has the best bunch he ever raised. Look up his advertisement on page 39.

HORSES.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST Send for our handsomely illustrated catalog. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS

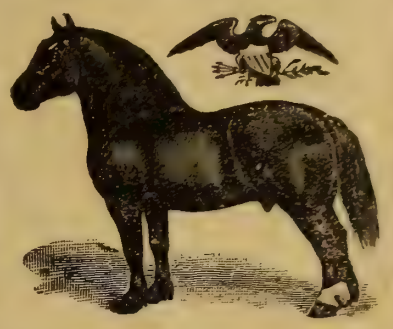
MAASDAM & WHEELER

FAIRFIELD, IOWA

PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

Special Sale of Percheron and Belgian Stallions For Next Thirty Days



New importations arriving! Two large importations received since January 15th. Another importation of stallions and mares now on the water. More arrived in April. We have at any time of the year more BIG-TON, HIGH-CLASS PERCHERON and BELGIAN stallions than any other firm in the United States.

HOLBERT HORSE IMPORTING CO
A. B. HOLBERT, Prop. GREELEY, IOWA

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW!
V. W. HARMS,
FAIRBURY, ILLS.

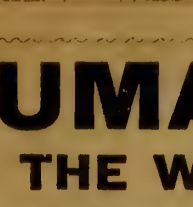
OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection If you want the kind good enough to win at the state fairs at rock botton prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

GEORGE EGGERT NEWTON, IOWA

YOU KNOW



that the really satisfactory breeding studs draw the trade that makes money. GET A GOOD ONE from my big bunch of registered Percherons, weanlings to 4-year olds. Breeder's prices. Spend a day and see my breeding mares and all.

FRED CHANDLER
Route 7, Chariton, Iowa

McLAY CLYDESDALES MAKE GOOD

McLAY BROTHERS,
Janesville, Wisconsin

Purchase Percherons

NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.

BUY THREE IN ONE

See the mares in pasture or infield work.
See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

BELGIAN EMPORIUM OF AMERICA.

A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address
HENRY LEFEBURE - FAIRFAX, IOWA.
Eight miles west of Cedar Rapids.

Chas. W. Crosier's Chester Whites.

With this issue of this paper Chas. W. Crosier, Juniata, Neb., starts an advertisement in which he offers choice spring boars and also female stock. Mr. Crosier is one of the pioneer breeders of Chester Whites in Nebraska, and his satisfied patrons are scattered over many states. Good hogs have been his aim at all times and he has bought the best breeding stock that he could find, and has always sold his stock at reasonable prices. He has been a constant advertiser in this paper for many years and is well and favorably known to a great host of its readers. The writer called on Mr. Crosier a short time ago and we wish to say that he has a good lot of stock for the season's trade, and readers need not hesitate sending orders for this stock. They will certainly be treated right, and they will also get some very fine stock from Mr. Crosier. Nearly all the spring crop is sired by Harvey's Choice, one of the real good boars of Nebraska. They are out of daughters of many noted sires, including the champion, Plainview Choice; the champion, O. K. Winner, and a few other boars nearly as well known. Kindly notice the advertisement on page 38 and write Mr. Crosier for prices immediately.

Rees Offers Scotch Bulls.

We desire to call attention to those of our readers who are wanting a young Scotch bull to the advertisement of Howell Rees & Son, Pilger, Neb., on page 36. They are offering some exceptionally good young Scotch bulls for sale, most of which are sired by their celebrated show and breeding bull, Ruberta's Goods. They have a number of bulls that will make splendid herd headers and now is the time to buy them. Write Rees & Son about these at once and kindly mention The Homestead.

IMPORTED AND HOME-BRED Percheron, Belgian and Shire Stallions and Mares

ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from.

Frank L. Stream - Creston, Iowa

---

18 Shetland Ponies For Sale

I HAVE three stallions, one stud colt and fourteen mares and sucklings. Will make special prices on these to move them. Write me at once.
H. W. LITTLETON - HARLAN, IOWA

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

---

300 **SHETLAND and Welsh ponies** for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

---

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a great bunch of mares and fillies. Mares are all in foal to imported stallions. All of my prize winners at the recent Iowa State Fair are for sale. I can show buyers more horses for the money than my competitors. Visit or write me your wants mentioning Homestead. Farm ½ mile from town.

R. F. FRENCH - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

HEREFORD CATTLE.

10 HEREFORD HERD HEADER BULLS

AVERAGING 12 months old, weighing from 1,000 to 1,200, in good condition, now offered for sale. Intensely bred Anxiety 4th bulls with good bone, heavy hind quarters and droop horns. By Beau Gondoline, Rex Onward 4th and Bright Lad from Beau Donald 12th and Beau Brighton dams. We also have 50 head of the plainer sort of registered Hereford bulls. **A. SPOONER & SONS, MONDAMIN, IA.**

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, NEWTON, IOWA.

ABERDEEN ANGUS CATTLE.

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazlmura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old, Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

BULLS ALL SOLD

I HAVE a few yearling and two-year-old Angus heifers for sale, also three toppy bull calves that were calved in January.
A. G. MESSER, GRUNDY CENTER, IOWA

ANGUS BULLS: A few bulls of desirable ages and of best breeding. Address H. W. Ehlers, Roca Neb.

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R
JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Chariton, Iowa.**

Ask your neighbor to subscriber for The Homestead.

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

WANTED A few registered Red Polled heifers, bred to calve in September or October. Give price and address L. L. Woods, Grinnell, Iowa.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

An Attractive Offering of Richly Bred Scotch Short-horns

Will Be Presented at Union Stock Yards, Chicago, Ill., Monday, October 13, 1913

FOR THIS sale I have listed forty head of the top things in my herd, representatives of the Secret, Brawith Bud, Duchess of Gloster, Broadhooks and other Scotch tribes, and I present them confident that the public will appreciate them at their worth. I have been breeding Short-horns for over forty years, and the cattle that I will sell at Chicago October 13th represent the results of a lifetime spent in an endeavor to produce good Short-horns. It is a strictly breeding lot of cattle, all but two head having been bred by myself. There are seventeen cows in the offering, thirteen of them with calves at foot; sixteen heifers, all bred but three, and seven bulls, embracing both herd-heading propositions and high-class steer getting material. No better bred cattle will be offered at any sale, and I believe that the individual merit of the cattle is in keeping with the pedigrees. These cattle hav been inspecteed by Mr. Johnson, of The Homestead, and I would suggest that you read what he has to say about them in another column. Write for the catalog, which will be sent only upon request. Mention The Homestead and address

S. F. LOCKRIDGE - - - GREENCASTLE, INDIANA

Colonels Woods and Jones, auctioneers. Attention is called to the following Short-horn sales: Thos. Stanton, Wheaton, Ill., October 14th; C. J. McMaster, Altona, Ill., October 15th; R. W. Botts, Plymouth, Ill., October 16th.

SHORT-HORN CATTLE.

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods**, and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address
HOWELL REES & SONS, - - - PILGER, NEB.

4--Good Young Scotch Bulls For Sale--4

I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address
GEO. H. WHITE, - - - - EMERSON, IA.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead,
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TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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TWO Scotch yearlings, one a Marr Flora, the other a Bampton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
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WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Polled heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

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I HAVE a fine lot of spring boars for sale, sired by the champion Messenger Boy, Dudie, Lempke's Favorite and a son of Captain Jack. Write me if you want a good one. Mention Homestead. **Howard Niswander, Kinross, Iowa.**

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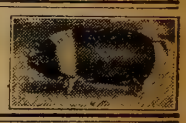

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

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300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
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200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

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WON 500 prizes at leading state fairs and Interna tional Exposiden the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

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A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.
Geo. T. Pearce & Son - Bloomfield, Iowa.

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I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
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EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address
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WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

Gausman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.
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McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
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HAMPSHIRE boars and gilts sired by Allen of Geneva and other high class boars for sale at moderate prices. I offer more prizewinning blood than will be found elsewhere and good individuals with it. Address
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Oldest breeder in the state. Pedigreed stock for sale
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350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

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Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices. Address
JOHN I. DRIPPS - SPRINGVILLE, IOWA

BIG-TYPE POLANDS

FALL and spring boars now ready to ship. Sired by Highland Boy 18319, weighing 800 lbs. just in breeding condition. My hogs are bred for size, bone and quality. Write me your wants and I can please you.
H. A. Wohlsdorf, - R. 1, Lawler, Iowa

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address
Homer L. Faulkner, Box 117, Jamesport, Mo.
Not the originator, but the preserver.

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

BLUE VALLEY HERD OF POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address
THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for discription and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address
RUEBEL BROS. - - - - - - - - - - MARATHON, IOWA

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. March and April pigs, either sex, now ready to ship. $20.00 to $35.00. Best breeding, highest quality.
J. D. Gates & Sons, Ravenwood, Mo.

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.
E. E. FARVER - - - - - OCHEYEDAN, IOWA

Fesenmeyer's A Wonder---Big Joe Boars

I HAVE a few choice boars for sale, sired by old **A Wonder, Big Joe** and other good boars. Write me about these at once. Address
HENRY FESENMEYER - - - - - - - - - CLARINDA, IOWA

AN EXCELLENT HERD BOAR FOR SALE

ONE of the very best Poland China boars within the state. A proven breeder, excellent make up, and of splendid pedigree. Competent judges pronounce him absolutely as good as to be had. Also spring boars sired by him. Write me today for breeding and prices. Mention The Homestead
J. A. JACKSON, - - - RAYMOND NEB.

SPRING BOARS by NEBRASKA WONDER

OUR entire spring crop of Poland China boars for sale at private treaty. These are fully equal to the sensational lot of fall boars we sold last spring. They are from as good stock as within the state. Write us today and we will try to save you some money. Address, mentioning The Homestead.
BEALL & JACKSON - - - - - ROCA, NEBRASKA

THE CHAMPION AGAIN EXPANSION

HEADS our Poland China herd. We have some of the best spring boars that we ever raised for sale. They are by Big Bone, T. A. Sampson, Again Expansion and Mabel's Wonder. Everything has passed through the disease. None better anywhere and prices the lowest. Address
C. B. POWERS, - - - - AURORA, NEB.

60 POLAND CHINA BOARS FOR SALE

BOARS in service **Miller's Choice 170929, Chief Price A, 173973, Giants Equal 198449.** Ten fall boars for sale by **Miller's Choice** and 50 spring boars by above sire. I breed the strictly big type. Prices reasonable. Mention Homestead when writing
JAMES LAWLER - - - CLARE, WEBSTER COUNTY, IOWA

EXTRA BIG POLAND CHINA BOARS

WE have a number of Poland China spring boars, the extra big ones. Quite a number bred by Peter Mouw, the remainder just as big and heavy boned and sired by a son of Herod, he a litter mate to the famous Samson. None better anywhere and we would like to move them soon. Write or come and see.
W. H. DEIGAN - - - - - RAYMOND, NEBRASKA

BLUE RIBBON POLAND CHINAS

FOR the next thirty days I will name a price on the choice of my forty Poland China spring boars of $25. Others just as good but a little younger at $20. This is not money enough for this class of hogs, but I have them to sell and want them to go quick. They are all sired by Blue Ribbon Hastings, a prize-winner wherever shown. If in search of something toppy and at small money, write me. Mention Homestead.
W. J. EAVEY - - - - GENEVA, NEBRASKA

POLAND CHINA BARGAINS

AM making special prices to move the choice bunch of early spring boars on our farm. They are great big, smooth fellows of excellent breeding and go at $25 and $30. Also the finest kind of a bunch of fall pigs that go at $12.50 for choice ones at weaning time. Address today, mentioning The Iowa Homestead,
JOHN L. NAIMAN - - - - - ALEXANDRIA, NEB.

MAMMOTH SMOOTH POLANDS. THE SMITH KIND

THIRTY-five head of the very select of our spring boars are for sale. They are as well bred as the breed affords and for size and smoothness and feeding quality, they can't be beat. Write us today, mentioning Homestead.
ALBERT SMITH & SONS - - - - - SUPERIOR, NEB.

Easy Feeding, Heavy-Boned, Big-Type Poland China Hogs

THE prolific kind of all ages, either sex, March spring pigs for $30 and $35. Fall yearlings from $40 to $50, either sex. Spring yearling sows bred for last of August and September farrow at $45 and $50. Aged bred sows $50 and up. We guarantee safe delivery, fair treatment and description.
J. B. HEISEL - - GRINNELL, IOWA

FRANCISCO'S Combination Polands

SOME very fine spring boars by Young Combination, also some extra select fall boars by Great Victor. Only the best have been reserved, and they are priced to move. Write me for a bargain.
C. W. FRANCISCO, INLAND, NEB.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address
Pitz & Adams, Plattsmouth, Nebraska.

MAPLE GROVE POLANDS

SPRING boars sired by Maple Grove Exception and Columbus Again. These are out of sows that are of the very best blood lines, and have made good as brood sows. Address
WM. McCURDY - TOBIAS, NEB.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson o Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.
H. C. MEINHOLD, STROMSBURG, NEB.

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires; Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

BIG-TYPE POLAND BOARS

20 **FALL BOARS** weighing 300 to 450 pounds, sired by the 1,000-pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. My herd has been immuned with the double treatment. Mention The Homestead when writing.
E. W. KREISCHER, MT. VERNON, IOWA

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.
Smith Bros., Rt 2, box 76, Lawler, Iowa.

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once
A.B.Heckenlivly - - - Cozad, Nebraska

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to
C. B. KNERR, STROMSBURG, NEBRASKA

Poland China Herd Boar

BY BIG JONES, two years, also two fall boars and some spring pigs. Fair prices.
O. J. SATRE - - - - JEWELL, IOWA

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MADISON, WISCONSIN
Veterinary Editor The Homestead.
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FOUR HIGH-CLASS Poland China Fall Boars

I AM offering four splendid fall boars for sale, sired by the 1,000 lb. boar, **Big Orange,** and **Colossus.** Two of these are out of Colossus and A Wonder dams and two are out of a Grandee dam. Also thirty spring boars by Big Orange and Colossus. Write me for prices and mention Iowa Homestead. Address
L. R. M'CLARNON - - - - - BRADDYVILLE, IOWA

BIG POLANDS, THE JONES KIND

SOME extra choice spring boars, real big ones, sired by Jumbo the Great and other noted sires. They are all out of choice big roomy sows. If looking for real big stuff address mentioning The Homestead
ORVILLE O. JONES - - - - - YORK, NEBRASKA.

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address
WARP BROS. - - - - - - - - - MINDEN, NEBRASKA

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them vere or write. Address
J. R. HIGGINS & SON - - - - - - - DEWITT, NEB.

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.
CARL A. ROSENFELD - - - - - - - - - - - - - - - KELLEY, IOWA

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.
KELLEY, IOWA

C. F. ADAMS' POLANDS

I HAVE a fine lot of boar pigs by Mammoth Jumbo, Maid's Halvor 1st, Adams' Big Hal and Long Columbia and out of a herd of big, smooth sows of big-type breeding. Will sell Grand Chief for $100 and will sell a son of Mouw's Big Jumbo. Write for prices mentioning The Homestead.
C. F. ADAMS - - - - OWASA, IOWA

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address
ROBT. A. SCHUG, COLERIDGE, NEB.

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead,
WM. KEEP - - - - ATLANTIC, IOWA

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.
A. ROESLER, - - - WILCOX, NEB.

SNYDER'S EXTRA BIG POLANDS

A CHOICE lot of extra big spring boars by well-known sires and out of sows of choice individuality and blood lines. I wish to close these boars out within the next thirty days and am pricing them accordingly. If you want big hogs for little money write me.
PERRY A. SNYDER - - - - CARLETON, NEBRASKA

SPRING BOARS BY THE GREAT GOLD MEDAL

ALL of our spring Poland China boars will be offered at private treaty. We have the greatest lot of spring boars that we have ever raised. We will sell you the extra choice ones at farmers' prices. Write at once, mentioning The Iowa Homestead. Address
J. T. R. NASH & SON - - - - MINDEN, NEBRASKA

35 Choice Poland China Boars 35

I AM offering 35 head of the best big-type Poland China boars I have ever raised. These go at reasonable prices if ordered soon. Address, mentioning The Homestead,
FRED SEXSMITH - - - - ORIENT, IOWA

FRAZER'S BIG POLANDS

WE have a choice lot of extra big, big-boned spring boars that we wish to move soon. They are sired by the great breeding boars, Big Jumbo and Orient. These boars are the best we could find or buy. A boar by them will assist in building up your herd, and they are priced right. Mention Homestead.
FRAZER BROS. - - - - WACO, NEBRASKA

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address
J. A. BEAUMASTER, ELMA, IOWA

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.
JOHN C. NYRUP - HARLAN, IOWA.

BIG-TYPE POLANDS

I HAVE a grand lot of March and April boars and gilts sired by **Quality King,** a grandson of Long King and **O. K. Price,** by Chief Again Price, also a few open yearling sows. I breed for size and quality. Herd largely of Mouw, Lawson, Johnson and Wheeler breeding. My prices are low and my hogs will please you. Mention Homestead when writing.
H. CRABTREE, - - - BAXTER, IOWA.

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.
JOHN H. FITCH - - - LAKE CITY, IA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks
James H. Duncan, Lone Oak Farm, Lineville, Ia

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.
THOS. F. MILLER,
R. 6, YORK, NEB.

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 184793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address
L. S. Fisher & Son, R. 1, Edgewood Iowa

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495.
DAVENPORT & MACK, BELMOND, IOWA

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

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PROPRIETOR Elmwood Pony Farm. Shetland ponies for sale. Write for dates and information.

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HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

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PURE bred stock and farm sales a specialty. Am posted on pedigrees, individuality and values, been a breeder of pure bred stock the past sixteen years. Have held several sales of my own besides crying sales for other people. Your patronage solicited, and fair and square treatment guaranteed. Write or wire for terms and dates, terms reasonable.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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COL. H. L. IGLEHEART
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POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, It. 42, Box 22, Ada, Michigan.

CHESTER WHITE SWINE.

CENTRAL IOWA HERD
CHESTER WHITES

125 HEAD of spring pigs of both sexes to select from. Also booking orders for fall pigs to be shipped at weaning time. Have six male pigs, will be one year old the middle of Sept., will ship on approval. Write or come and see me.
G. O. SATRE - - - - JEWELL, IOWA

CHESTER WHITE BOARS

I HAVE a fine lot of March and April boars sired by Joe O. K., Perfection Chief, Chief Combination, Silver Tip and Elmore's Choice that I will sell very reasonable. I guarantee the boars to please you or you can send them back. Mention Homestead.
H. T. D. HENDERSON - KEOTA, IOWA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

50 CHESTER WHITE

SPRING and winter boars, wonderful length strong back and feet, best of head and ears. 50 spring and winter gilts. These hogs carry the choicest blood lines of the breed. Priced to sell. Address
HARRY HURLESS - OGDEN, IOWA

CHESTER WHITE BOARS FOR SALE

I AM offering two splendid herd boars for sale and 40 head spring boars. Prices reasonable First come first served. G. H. Tutt, Marathon, Ia.

CHESTER Whites and Shropshire bucks. Boars ready for service, and sows, gilts and spring pigs. Write Bert A. Randell, Mt. Zion, Ia.

CHESTER WHITE SWINE.

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit. Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead.
WM. A. HOOVER, OSKALOOSA, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - - ELLSWORTH, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - - PRESCOTT, IOWA.

Nagle's Prize-Winning Chester Whites

WE have a fine lot of boars and gilts sired by our Prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
E. L. NAGLE & SON - - - - - DEEP RIVER, IA.

SUNNY SLOPE CHESTER WHITES

160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow, sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
W. E. GAFFEY - - - - - STORM LAKE, IOWA

Stewart's Immune Chester White Boars

I AM offering 60 head of the best boars you have ever seen for the money, sired by my splendid herd boars Iowa Boy and Crescent. These have all been vaccinated and are immune. Write me at once for description and prices, and mention Iowa Homestead. Address
J. H. STEWART, - - DICKENS, IOWA

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - FARMINGTON, IOWA

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

Crosier's Chester Whites

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

BARR'S CHESTER WHITES

VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
W. T. BARR - - - AMES, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
AMOS TURNER - WILBUR, NEB.

Bloom's Chester Whites

25 HEAD of choice fall boars by Pathfinder 2d, Pride of the West and other good boars. Size, heavy bone and good. Immune from double treatment. Call and see these hogs or write to
EARL BLOOM - BRIDGEWATER, IOWA

PLAINVIEW CHOICE BOARS

CHESTER White fall and spring boars by the great Plainview Choice. Also some Shorthorn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

C. C. EVANS
LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address.
W. H. DUNBAR, JEFFERSON, IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

CHESTER WHITE BOARS

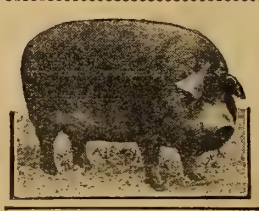
FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vandersllce Bros., Cheney, Nebraska

Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

DUROC JERSEY SWINE.



Big Duroc Boars By Wilson's Defender

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am selling at $25 and $30 each. These pigs weigh from 150 to 180 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. I have four sows to farrow in September that I am pricing reasonable. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. If the hog don't suit send him back and get your money. Mention The Homestead when writing.
I. J. WILSON, WEST BRANCH, IOWA

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model 11, Crimson Ohio Chief, Crimson Chief 11, and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - FREDERIKA, IOWA

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

50 Immune 50
DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
WILL BAUER - - - AUDUBON, IOWA

DUROCS
ARE POPULAR

BECAUSE they are the Profit Producers. Start right by buying a few choicely bred gilts. For further information apply to
B. W. LITTLE - JANESVILLE, WIS.

Duroc Jersey Fall Boars

VACCINATED with the double treatment. Choice breeding lines. For sale at reasonable prices
L. L. DE YOUNG - SHELDON, IOWA

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

FOR SALE

CHOICE Duroc Jersey spring boars, by Ohio Col., Lafollette's Last, Model Goods and Model Hogates at $15.00 and $25.00.
A. H. HANENKAMP - HICKMAN, NEB.

DUROC JERSEY SWINE.

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address **R. J. HARDING** - - - - - - - - **MACEDONIA, IOWA**

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000 lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address
B. W. HUNT - - - - - - - - - - **DENISON, IOWA**

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th bred boar. Order at once, write or come see. Farm adjoins town.
A. T. BOSELY - - - - - - - **FAIRBURY, NEBRASKA**

THE REXALL HERD OF DUROCS

WE have a great lot of herd-heading boars, many of them sired by Dusty Critic 2d, the sire of the 1912 champion, Critic B. Also some other good sires represented. Write us about them. Address
DANFORD & DEWHURST - - **ORD, VALLEY COUNTY, NEBRASKA**

MERRICK'S DUROC JERSEY BOARS

ARE the kind that will make good on your farm. They are as well bred as possible to obtain and they are individually of the right sort. Farmers' prices will take these good ones if ordered at once. Write for prices and description at once. Address, mentioning The Homestead,
F. E. MERRICK - - - - **OSCEOLA, NEB.**

45 CHOICE DUROC JERSEY BOARS 45

I AM offering 14 splendid fall boars sired by the great show and breeding boar, **Evergreen Prince,** and **King's Defender,** and 30 extra choice spring boars sired by Evergreen Prince and G.'s Crimson Wonder. Write me for prices and description at once. Address, mentioning Iowa Homestead,
GRANT LYNN - - - - - - **SPIRIT LAKE, IOWA**

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSON - - - - - - **MARQUETTE, NEBRASKA.**

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - - - **SYRACUSE, NEBRASKA**

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN - - **F. D. 7.** - **LINCOLN, NEBRASKA.**

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - **GRISWOLD, IOWA.**

HERD HEADING DUROC JERSEY BOARS

SIRED by Golden Model 2d, Red Model by Golden Model, King's Crimson by I Am a Crimson Wonder 2d and Echo Chief. Will also spare one of my herd boars. Everything of the very highest order and will price them to move them. Could spare some sows. Write me today for full particulars. Address, mentioning The Homestead,
H. H. KOENIG, DEWITT, NEBRASKA

PRIZE WINNING DUROCS

WE have a number of extra good boar pigs sired by Model Wonder, Proud Col and Wonder's Model, all Iowa State Fair winners and out of sows of the most approved blood lines. Our herd has produced winners at the Iowa State Fair continuously for five years. It is this breeding we offer you at reasonable prices. Mention Homestead when writing.
HANKS & BISHOP - - - - **NEW LONDON, IA**

25---DUROC JERSEY BOARS---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address
E. A. CALKINS - - - - **RUTHVEN, IOWA**

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - **ALEDO, ILLINOIS**

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D Geiken, Cozad, Nebraska.

12 DUROC JERSEY FALL BOARS

I AM offering 12 good fall boars for sale sired by Col. Seek 114971, out of Critic and Grandmaster Col. sows. Will also sell Golden Model XI. Write me for prices at once. Address
H. V. CRONK - - - - **WATERBURY, NEB.**

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102862,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - **LAMONI, IOWA**

Growthy Duroc Jerseys

SPRING boars by R. J.'s Chief and King Gano, out of dams of strong Crimson Wonder and Model Chief breeding. Big-bone, size, quality and finish. Good pigs at fair prices.
J. C. PORTER, OGDEN, BOONE CO., IA.

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - **AMES, IOWA**

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder and out of choice sows. Also some by the great Wilde's Wonder. Prices to move these hogs early. Write today. Address
WM. BORNEMEIER - ELMWOOD, NEB.

50 DUROC JERSEY BOARS

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr. Splendid boars at $25 and $30. Order now and get the best.
HEIKO GRUIS - - **GEORGE, IOWA**

DUROC JERSEY SOWS

BRED for August and September farrow to some of the best sires of the breed. 180 spring pigs. Male pigs for sale at reasonable prices. Gilts reserved for winter sale.
F. CHRISTENSEN, FAIRMONT, MINN.

THEOBOLD'S DUROCS

SPRING boars sired by Ohio Belle's Crimson, Valley Chief Col. and Crimson Chief. Out of as good sows as the breed affords. Nothing better anywhere. Address today for prices.
J. C. THEOBOLD, - - OHIOWA, NEB.

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - **WOODWARD, IA.**

OAKVIEW DUROC spring boars, by Defenders' Likeness, Model Chief I Am, Col. Kruger, Prince A.'s Col., 1st prize senior boar pig International, 1912. Prices right. A. Nevins & Son, Modesto, Ill.

When writing to advertisers please mention The Homestead.

DUROC JERSEY SWINE.

KING GANO 13311

1st Prize Junior Yearling at Des Moines

I AM offering **40 BOARS FOR SALE,** most of which are sired by **King Gano 13311,** the 1st prize junior yearling at Des Moines, 1913, and the greatest yearling ever seen at the fair. He weighs 725 lbs. at 17 months and is the sensation of the year. Write me about these boars at once and mention The Iowa Homestead. Address
O. E. OSBORN - - - - - **WESTON, IOWA**

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - **ALGONA, IOWA**

HIGH-CLASS DUROC JERSEY BOARS

BOARS of early spring farrow, sired by R. & J.'s Golden Model 2d, also Critic B. the grand champion at Lincoln, 1912. They are out of as high class sows as will be found in the corn belt. For prices address, mentioning The Iowa Homestead,
A. J. REGIER - - - - **HENDERSON, NEBRASKA**

30 High-class Duroc Jersey Boars 30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, G.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
R. F. AIKMAN - - - - **AUDUBON, IOWA**

20 Immune Duroc Jersey Fall Boars 20

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Everything has been vaccinated and are immune. Order at once. Address
GEORGE C. EVERTS - - - - **AUDUBON, IOWA.**

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address **F. H. DICKEY, EMMETSBURG, IOWA**

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you if you come to the farm. Address
J. B. ASHBY - - - - **AUDUBON, IOWA**

BEEHRLE'S BIG DUROCS

A FINE lot of early spring boars by the great breeding boar, Fancy Chief. Also a number by Royal Chief and they are all from extra good sows that are well bred. Am naming very moderate prices on this stock for early sales. Address, mentioning The Homestead,
J. J. BEEHRLE - - - **ORD, NEBRASKA**

60 CHOICE DUROC JERSEY BOARS

FOR this season's trade. Sired by such hogs as Highland K, (junior yearling champion at International, 1910), Prince Model, Col. Freed and other good ones. All fine-bred Col. boars and out of dams by Prince Model, Model Defender, Col. Model, Regulas and others. I am pricing these boars right and solicit your patronage. Address, mentioning The Iowa Homestead,
M. A. McWILLIAMS - - - - - **SUNNYSIDE STOCK FARM, WALL LAKE, IOWA**

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - **STORY CITY, IOWA**

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

WELL BRED DUROCS

WE have the best lot of boars for sale that we have ever offered. They are sired by Chief Select, Jr., 103747; B. & S. Golden Model, 129083; Model Chief, Jr., 130319 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write us for prices if you want a good boar reasonable. Mention Homestead
BALMAT & SWALE
Mason City, Iowa, and Fredericksburg, Iowa.

MENAUGH BROS.
Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - **RIVERSIDE, IOWA**

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,
P. W. WEBERG - **DENISON, IOWA**

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

DUROC JERSEY BOARS

I HAVE a fine lot of fall and spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - **VICTOR, IOWA**

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfield's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolby's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - **FAIRMONT, NEB.**

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - **DAVIS CITY, IOWA.**

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

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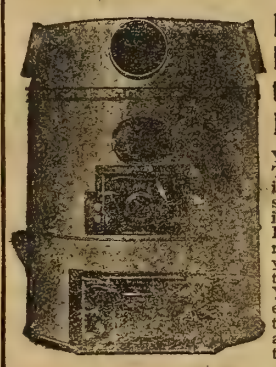

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your order comes in. That means quick arrival of your stove or range. Our stock is large. Our manufacturing facilities are immense. No matter how fast the orders come, we're never out of the style you want. Kalamazoo stoves are made in 400 styles and sizes. The fact that we are always well stocked in all of them shows the magnitude of our business.

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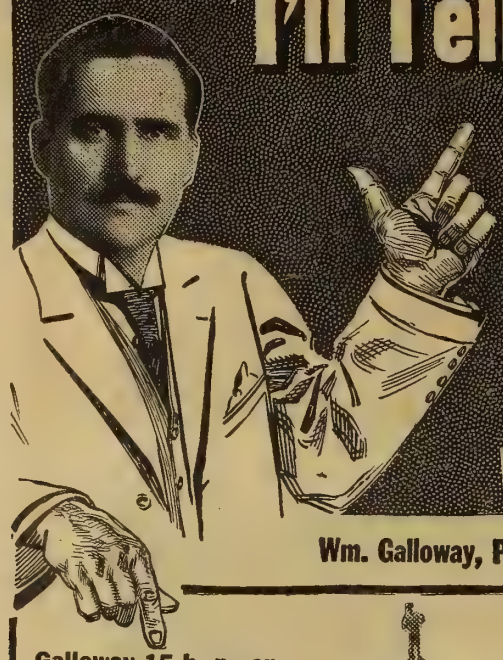
VOL. LVIII. NO. 40 DES MOINES, IOWA, OCTOBER 2, 1913. WHOLE NO. 2921

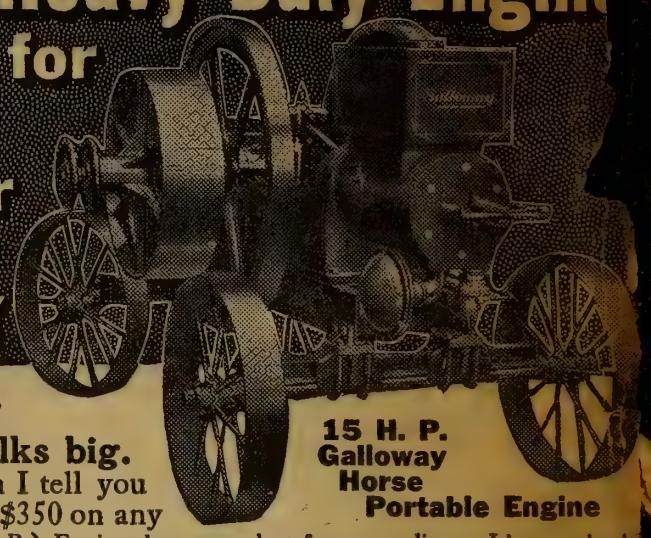
I'll Tell You How to Save $250-$350 On a Galloway Heavy Duty Engine

7½—10—15 H. P. for Running Any of Your Large Power Machines

Write Me Today!



Wm. Galloway, Pres.



15 H. P. Galloway Horse Portable Engine

That's talking big **money but real money talks big.** I'll back up every statement when I tell you that you can actually save $250 to $350 on any Galloway Heavy Duty (7½—10—15 H. P.) Engine that you select from my line. It's an absolu fact and I can prove it to you in a flash when you get my offer.

Take my 15 H. P. Portable shown in the picture. **I sell it for half what you'd have to pay for a trust-made engine of the same power.** I said I'd prove your saving on any engine. All right, just drop m a line and I'll send you my big, illustrated engine catalog and Special 90 Day Price Offer. If anybody else wants to sell you an engin **show him my prices and dare him to meet them.** I positively know that there isn't a single manufacturer in America who can mee my prices without losing money. My tremendous output and the direct selling plan that I have built up, make my low prices poss ble. When you buy a Galloway you pay just the bare cost of material and labor with only one small manufacturer's profit add Compare that plan, backed by years of proved success, with the Trust way of adding four to six profits and you see how easy it is f me to save you $250 to $350 on your engine or your complete outfit. Now, I just want you to **investigate,** that's all. It's money in yo pocket—**big** money. Write me a postal or a letter for my big engine catalog today. Remember, these engines are made in si from 1¾ H. P. to 15 H. P., either stationary or mounted, and are

Sold Direct from My Factory to Your Farm

All Galloway Engines are made right in our own big chain of factories at Waterloo. There are n better made engines on the market. Galloway Engines are easy to start. Will run without attention as long a you want them to. Use less fuel per horsepower than any other engines on the market. They are proved engines Over 30,000 in use today and all sold with the privilege of testing them 30 days on your own farm before you decide to keep them backed by a five year warranty on materials and $25,000 legal bond. Every user of a Galloway Engine is a booster for them. That why we sell more of them than any other concern in the world selling engines direct to the user. Isn't that proof enough that it pays to buy the Galloway and save from $250 to $350.

Galloway 15 h. p. engine running Silo Filler on Wm. Schoepke's farm, Hartland, Ill.

Galloway 15 h. p. engine running silo filler on Edwin Carlson's farm, Winthrop, Minn.

Get a Complete Galloway Silo Filling Outfit and Save Big Money

Remember, I can sell you complete Silo Filling Outfit, Shredder, Big Corn Sheller, Irrigation Pumping Outfit, Corn and Grain Elevator and Dump, and many other big combination outfits—all at money-saving prices. Just write me and tell me what you want and let me quote you the lowest prices ever made on these outfits. Write me without fail today for my complete Silo Filling Outfit. Hundreds in use and all giving complete satisfaction.

Free Service Department

My free Service Department, composed of the best engine experts, will give you all the information you want for the proper installation and use of your engine. They will tell you the best size engine to buy for handling your different machines, size pulleys, etc., and how to equip your engine for doing the best possible work This service costs you nothing, but is worth a great deal to you.

Here's the Real Proof

I just want you to look at these five illustrations here, showing 15 H. P. Galloway Engines at work in different sections of the country, running ensilage cutters and threshing machines. These are only a few of the many views of Galloway Engines at work running different machines, which we have on file. My big Engine Book shows a lot more. Sent FREE.

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Write for Catalog and Prices Today

Write me first. Get my 90 day special prices before you buy any other style or make of engine. It will be the best investment you ever made. I am selling more Heavy Duty Engines than ever before in the history of this big business because the men who have bought and used Galloway Engines are helping me sell them. Galloway Engines are their own best advertisement.

Remember, if you want a small pumping engine, or medium sized engine, I can supply you at a big saving. We make all sizes from 1¾ to 15 H.P. New Pumping Engine Catalog just out. Let me send you a FREE copy.

Get My Special 1913 Offer

Then as a clincher I am making the most liberal 1913 Co-Operative Profit Sharing Offer I have ever made, which is a tremendous, big inducement for you to buy the Galloway. It will actually help you get your engine partly or entirely without cost to you in the end.

Just mail me a postal or letter for my big illustrated engine catalog and I will give you all particulars of this special offer by return mail. Write me today. Do it before you lay this paper down. Address

Wm. Galloway, President, WM. GALLOWAY COMPANY

15 Galloway Station 555 **WATERLOO, IOWA**

Galloway 10 h. p. Engine Running Threshing Machine on W. J. Anderson's Farm, Newman Grove, Nebr.

Galloway 15 h. p. Engine Running Thresher on W. H. Stuckmeier's Farm, Waverly, Iowa

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, OCTOBER 2, 1913.

All Together For Good Roads

How Missouri Set an Example, Already Followed by Arkansas, With Other States Planning to Join the Campaign, for Good Permanent Highways

A QUARTER of a million volunteer workers, doing a million and a half dollars' worth of road work, in two days; such was the record of Missouri's Good Roads Day experiment, for which Gov. Elliott W. Major deserves the credit. Profiting by the good example set by the "Show Me" state, Arkansas has held a similar celebration, with equally productive results, while Kansas and other states are already planning to do likewise. Before the enthusiasm is over it is likely that a dozen or more states will have followed Missouri's example and set apart one or two days on which both men and women, of town and country alike, turn out to work upon the highways of the state.

When Governor Major issued his call for a Good Roads Day turnout of the people of the state, there were few optimistic enough to predict that in every county and practically in every township the response would be emphatic and unanimous. But such was the case. The celebration was of two days' duration and during this time nearly every man in the state either went out upon the highways and worked or else contributed financially to bettering the roads. The result was not only visible in the hundreds of miles of highways put in better repair, but in the quickening of interest in road making and road repair among all classes of people. Nor did the lesson stop there, for Missouri learned that roads cannot be made nor repaired by enthusiasm alone and that work to be effective must be permanent. As the St. Louis Globe Democrat aptly pointed out:

"It used to be that when roads got to their worst, and had to mend, there would be a rally of men in a township, a school district, or a road district, to mend them. In such small fields of effort permanent results could not be hoped for. Nor could such results in a much wider field be hoped for now, if opportunities of much larger and more effective co-operations were not to be seen growing out of new conditions.

"That is the chief significance of 'the Missouri idea.' It stands for the spirit of co-operation in a great and wealthy community, capable of carrying co-operative effort in roadmaking to points undreamed of by pioneers. Road dragging and patching cannot make permanent roads now more than such methods could a century ago. Should torrential rains come this autumn, as may be expected after a long drouth, it will be seen how little the co-operative labor of many thousand men, turning over, leveling and grading the soil of roadways and leaving them without firmer foundation or support, can do to meet emergencies. Dirt roads will be dirt roads still. And dirt mixed with much water makes for deep mud."

This idea of permanence was, in reality, the main lesson of the observance. Governor Major and Frank W. Buffum, the state highway commissioner, agree that the urgent need of the state and the hour is for more road-building machinery and more systematic and permanent work on the roads. Out of this will probably come to the next legislature a recommendation by Governor Major for the purchase by the state of ten to twenty of these equipments to be under the care of the highway commissioner and sent out by him from county to county where the farmers along the road will pay the expense of operating them and will follow behind them with shovels.

JUDGE D. E. KENNEDY ACTING AS "MULE SKINNER" ON PETTIS COUNTY, MO., ROADS.

Forty of these road-building equipments were operated in Missouri on the good roads days. Almost without exception they proved to be "eye openers" to the farmers and road overseers who were accustomed only to the old-fashioned wheel scrapers and plow methods. One of these machines was kept at work several days in Callaway county on the Ashland road.

With a crew of fifteen men this machine took a stretch of road almost impassable before and transformed it into as fine an earth road as could be built. It widened the road to forty feet from a narrow streak of holes and ruts through the underbrush. It ditched it on both sides and crowned the center. Commissioner Buffum, who has studied road building in this country and Europe, said the stretch when finished was as good earth road, after it had been dragged, as anybody could want. Under favorable circumstances this machine can build six and eight and sometimes ten miles of earth road a day, and build it so it won't have to be rebuilt next year. All it will need in the future is dragging. A hundred teams and 200 men would have to hustle to make as much road in the two days as this one machine did. Reports that have come in to Commissioner Buffum from the other outfits that made experimental roads in Missouri the two days were just as favorable as the outfit that worked on the Ashland road.

"We've been wasting too much energy, too much labor, too much money on our roads in the past," Governor Major says. "That is one thing the two days' road campaign has demonstrated to me. In the future we should strive for more system in our work."

The extent to which the general public responded in Missouri is shown by the report made for Jackson county (in which Kansas City is located). With two districts yet to hear from, the committee for the county reported that nearly eighty miles of earth road had been graded and an equal mileage freed from brush and weeds by volunteer workers. The report for this one county alone, which goes a long ways toward showing the extent of the work which was done

(Continued on page 20)

VOLUNTEER WORKERS HAULING GRAVEL AND RE-SURFACING THE SEDALIA-IONIA ROAD ON MISSOURI'S HIGHLY SUCCESSFUL ROAD DAY CELEBRATION.

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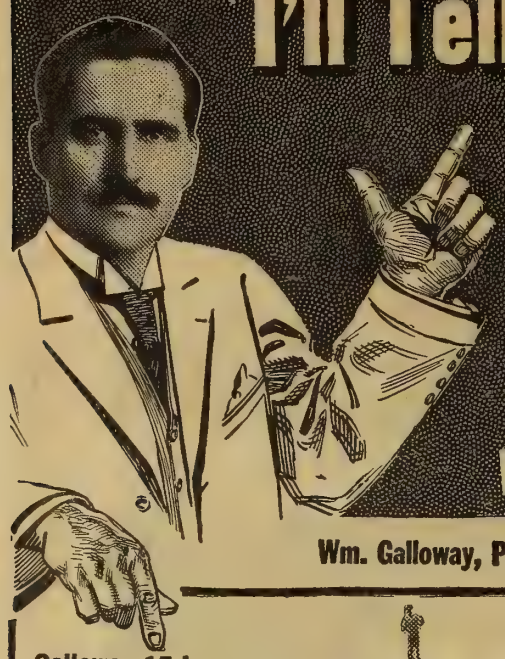
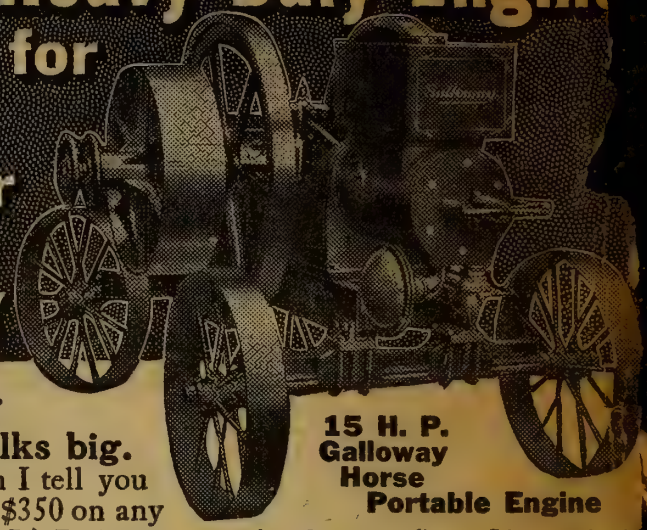


Wm. Galloway, Pres.



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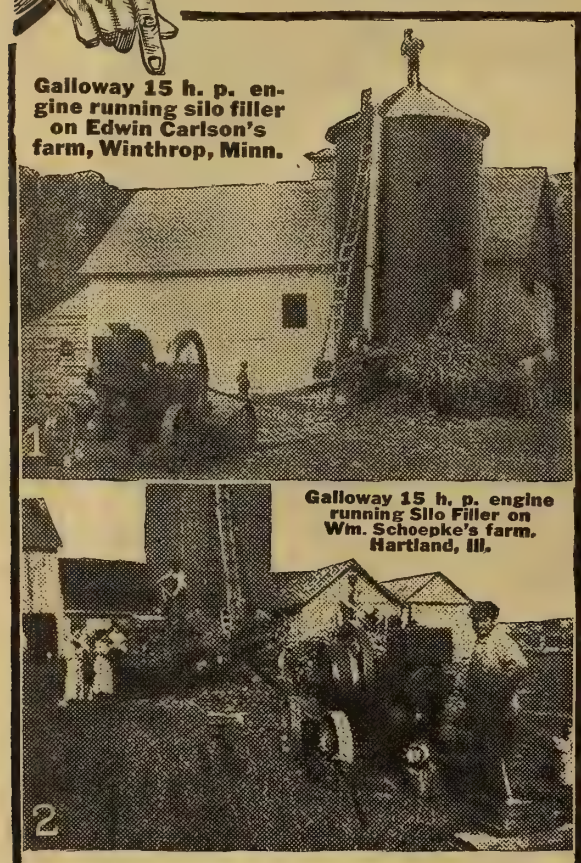
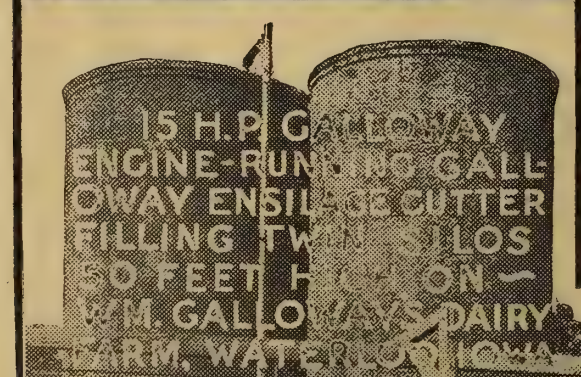


Galloway 15 h. p. engine running silo filler on Edwin Carlson's farm, Winthrop, Minn.

1



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2

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Free Service Department

My free Service Department, composed of the best engine experts, will give you all the information you want for the proper installation and use of your engine. They will tell you the best size engine to buy for handling your different machines, size pulleys, etc., and how to equip your engine for doing the best possible work This service costs you nothing, but is worth a great deal to you.

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3

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4

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5

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, OCTOBER 2, 1913.

All Together For Good Roads

How Missouri Set an Example, Already Followed by Arkansas, With Other States Planning to Join the Campaign, for Good Permanent Highways

A QUARTER of a million volunteer workers, doing a million and a half dollars' worth of road work, in two days; such was the record of Missouri's Good Roads Day experiment, for which Gov. Elliott W. Major deserves the credit. Profiting by the good example set by the "Show Me" state, Arkansas has held a similar celebration, with equally productive results, while Kansas and other states are already planning to do likewise. Before the enthusiasm is over it is likely that a dozen or more states will have followed Missouri's example and set apart one or two days on which both men and women, of town and country alike, turn out to work upon the highways of the state.

When Governor Major issued his call for a Good Roads Day turnout of the people of the state, there were few optimistic enough to predict that in every county and practically in every township the response would be emphatic and unanimous. But such was the case. The celebration was of two days' duration and during this time nearly every man in the state either went out upon the highways and worked or else contributed financially to bettering the roads. The result was not only visible in the hundreds of miles of highways put in better repair, but in the quickening of interest in road making and road repair among all classes of people. Nor did the lesson stop there, for Missouri learned that roads cannot be made nor repaired by enthusiasm alone and that work to be effective must be permanent. As the St. Louis Globe Democrat aptly pointed out:

"It used to be that when roads got to their worst, and had to mend, there would be a rally of men in a township, a school district, or a road district, to mend them. In such small fields of effort permanent results could not be hoped for. Nor could such results in a much wider field be hoped for now, if opportunities of much larger and more effective co-operations were not to be seen growing out of new conditions.

"That is the chief significance of 'the Missouri idea.' It stands for the spirit of co-operation in a great and wealthy community, capable of carrying co-operative effort in roadmaking to points undreamed of by pioneers. Road dragging and patching cannot make permanent roads now more than such methods could a century ago. Should torrential rains come this autumn, as may be expected after a long drouth, it will be seen how little the co-operative labor of many thousand men, turning over, leveling and grading the soil of roadways and leaving them without firmer foundation or support, can do to meet emergencies. Dirt roads will be dirt roads still. And dirt mixed with much water makes for deep mud."

This idea of permanence was, in reality, the main lesson of the observance. Governor Major and Frank W. Buffum, the state highway commissioner, agree that the urgent need of the state and the hour is for more road-building machinery and more systematic and permanent work on the roads. Out of this will probably come to the next legislature a recommendation by Governor Major for the purchase by the state of ten to twenty of these equipments to be under the care of the highway commissioner and sent out by him from county to county where the farmers along the road will pay the expense of operating them and will follow behind them with shovels.

JUDGE D. E. KENNEDY ACTING AS "MULE SKINNER" ON PETTIS COUNTY, MO., ROADS.

Forty of these road-building equipments were operated in Missouri on the good roads days. Almost without exception they proved to be "eye openers" to the farmers and road overseers who were accustomed only to the old-fashioned wheel scrapers and plow methods. One of these machines was kept at work several days in Callaway county on the Ashland road.

With a crew of fifteen men this machine took a stretch of road almost impassable before and transformed it into as fine an earth road as could be built. It widened the road to forty feet from a narrow streak of holes and ruts through the underbrush. It ditched it on both sides and crowned the center. Commissioner Buffum, who has studied road building in this country and Europe, said the stretch when finished was as good earth road, after it had been dragged, as anybody could want. Under favorable circumstances this machine can build six and eight and sometimes ten miles of earth road a day, and build it so it won't have to be rebuilt next year. All it will need in the future is dragging. A hundred teams and 200 men would have to hustle to make as much road in the two days as this one machine did. Reports that have come in to Commissioner Buffum from the other outfits that made experimental roads in Missouri the two days were just as favorable as the outfit that worked on the Ashland road.

"We've been wasting too much energy, too much labor, too much money on our roads in the past," Governor Major says. "That is one thing the two days' road campaign has demonstrated to me. In the future we should strive for more system in our work."

The extent to which the general public responded in Missouri is shown by the report made for Jackson county (in which Kansas City is located). With two districts yet to hear from, the committee for the county reported that nearly eighty miles of earth road had been graded and an equal mileage freed from brush and weeds by volunteer workers. The report for this one county alone, which goes a long ways toward showing the extent of the work which was done

(Continued on page 20)

VOLUNTEER WORKERS HAULING GRAVEL AND RE-SURFACING THE SEDALIA-IONIA ROAD ON MISSOURI'S HIGHLY SUCCESSFUL ROAD DAY CELEBRATION.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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ADVANTAGES OF HOGGING DOWN CORN.

The practice of hogging down corn is enthusiastically endorsed by the Iowa Experiment Station. The matter has been investigated with considerable care at that institution and a comprehensive bulletin has recently been published dealing with various phases of this problem. According to the conclusion reached by this station the plan of hogging down corn saves four handlings of the crop, namely: husking cribbing, reloading for feeding purposes and feeding the hogs on pasture or at the yards.

Two handlings of manure are saved. The manure is dropped in the fields where it is needed; no labor is necessary to haul it out of the lots and to scatter it.

Storage charges are saved upon the portion of the corn hogged, inasmuch as crib space is not needed. The rats and mice do not get any of the corn that is "hogged down."

Returns are equally as good in pork produced where the hogs gather their feed themselves as where it is handfed. It is proposed, of course, that some pasture or supplement be fed in conjunction with the corn in field as well as in dry-lot feeding. Hogs running in the cornfield and having alfalfa, rape or clover pasture in addition, with possibly a little supplement, depending upon the pasture used, are ideally handled to secure a maximum of pork at a minimum of expense. The hogs gain more economically and rapidly when in the cornfield properly supplemented than they do in dry lot.

The hogs develop good constitutions and are in excellent condition for quick fattening feed after coming out of the field. Range, with its accompanying exercise, provides a most excellent tonic; the hogs are healthier than in dry-lot feeding and are especially inclined to stretch and develop in the cornfield, building frame and muscle to a large degree, putting them in good shape for a few weeks close-pen fattening.

No manure is lost, practically speaking, as in dry-lot feeding; of course, this does not apply to pasture. Animal husbandry has not yet been able to devise a system of manurial fertility conservation which would excel the "hogging-down" way. With the almost entire lack of leaching loss we have only the fertility removed from the land which is carried away in the hog's body; which really comprises only a small portion of the corn crop's fertility.

The crop is harvested without waste, the hogs, if rightly managed, picking up practically every stray kernel of corn. By following up the fattening hogs with young shoats or even with brood sows, the field will be garnered more closely than it would be by the ordinary husker. In truth the hogs turned into the field after the husking is over pick up considerable corn which might otherwise go to waste.

The weeds may be cleaned up to some extent. One man especially says, "Quack grass has disappeared permanently since I started 'hogging-down.'" One would not ordinarily expect such a happy result as this, but nevertheless considerable of the weeds are destroyed.

Hogs may follow up cattle and otherwise save waste. They may clean up after silo-filling time, gathering the ears which have been dropped by the corn binder, they may follow the husking machine and garner the waste grains.

They facilitate and encourage the gathering of seed corn early from the standing corn in the field. One practical man puts it this way: "The reason many men do not gather their seed corn early is because they do not like to 'smash' down the rows with a wagon, and carrying a sack is a tedious, discouraging business. With us in half a day two men with team and wagon gather enough seed to plant a hundred acres. We then turn the hogs in and they efficiently do the rest with much profit resulting directly and indirectly."

UNEASINESS OVER MEAT SCARCITY.

A meat famine is in sight, according to the sentiment prevailing at the annual meeting of the American Meat Packers' Association that was held at Chicago last week. The shortage of live stock is constantly being intensified because of the increase of population, or, in other words, the demand exceeds the supply to such an extent that according to the American Meat Packers, prices are too high.

Matters have come to such a pass that the United States Department of Agriculture proposes to stimulate beef and pork production by establishing what is known as municipal abattoirs, or packing houses, throughout the country and to create co-operative live stock associations among the farmers of New England and the south Atlantic states as well as in the middle West. In addition a suggestion comes from Secretary Houston that boys' pig clubs similar to boys' corn clubs be organized. It is the belief of Secretary Houston that the farmer can be convinced that there are even greater profits in live stock than can be derived from the policy of growing grain and marketing direct and he proposes through the establishment of extension courses to demonstrate this to be true.

The belief that the establishment of municipal abattoirs would benefit stockmen is based on the fact that it will maintain a more favorable condition of market at all times. At the present time there is too wide a gap between what the farmer receives and the consumer's price, this going to, first, the stock buyer, the packer and the retailer. Heavy shipping expenses are involved which in the end must come out of the farmer and the consumer. At the present time the distance from the stockman to the ultimate consumer of meat is too great and it is pointed out that the establishment of municipal abattoirs will shorten the route and therefore benefit producer and consumer alike. According to Assistant Secretary Galloway, of the Department of Agriculture, it is simply a matter of being assured of a profit before a farmer will increase his live stock business. "Will stock raising pay?" asks Mr. Galloway. "As long as crops are more salable than cattle he will raise and sell crops. Once he is convinced that cattle are more salable than crops he will raise both crops and cattle, feed the former to the latter and sell the cattle." This is the whole problem in a nutshell. The present scarcity of both cattle and hogs is due, first, to the violent fluctuations in values resulting during certain periods in stockmen losing enormous sums of money; and, secondly, to a feeling of disgust which has grown up among stockmen on account of the wide margin that exists between the price obtained for the live animal and for the product when it is placed on the block.

If we ever have cheap meat in this country again it will be because farmers are compelled to sacrifice through market manipulation because never again can meat be produced as cheaply as in the past.

FEEDING VALUE OF MOLASSES.

On account of the rapid development of the sugar industry in the United States considerable interest is being shown in one of the by-products of sugar factories, namely, molasses, with special reference to its value as a stock food. This is indicated by the number of inquiries that are received from stockmen who are endeavoring to find by-products having the highest feeding value and at the same time reasonable in price.

In his book on "Profitable Stock Feeding," Prof. H. R. Smith calls special attention to an experiment in feeding molasses to 400 work horses. As much as fifteen pounds of molasses a day was fed to horses averaging 1,270 pounds. In addition to the molasses, these horses consumed four pounds of corn and three pounds of bran together with a limited supply of roughage. On this ration the horses were kept in the best of health and they maintained the highest degree of efficiency in their work. There was no undue tendency to fatten nor to the production of soft flesh, nor did molasses have any injurious effect on the wind.

Another instance is given in the American Veterinary Review, this being a report on the feeding of molasses to 100 horses at heavy work. In this case drafters were used weighing 1,700 pounds. They were fed twice a day, one quart of molasses diluted with three quarts of water while, in turn, this was mixed with six pounds of cut hay, one and one-half pounds of corn meal and two and one-half quarts of coarse bran. Five quarts of dry oats were fed at noon and whole hay was fed at night. While working on this ration the horses are reported to have kept in the best of health, whereas, while on dry feed wholly, there was considerable trouble with spasmodic cholera. The horses, while on this ration and at heavy work, actually gained in weight.

In commenting on the effect of this food, Mr. G. H. Berns points out that "molasses of a good quality is a most nutritious food for horses, is easily digested and assimilated, and will, in many cases, correct faulty digestive processes. Horses will do fully as much work and at the same time remain, as a rule, in much better condition than animals maintained on dry food, while the cost of feeding is reduced from 25 to 30 per cent."

The estimate placed on the value of molasses by Mr. Berns is that one quart is equivalent to three or four quarts of oats.

It is a well-known fact that the showmen use molasses to a considerable extent in feeding herds for the ring and this practice has been pursued by some of our best breeders—men who have been able to fit herds year after year, covering a long period and at the same time have kept the females as well as the males, in good breeding condition.

THE RENTED FARM

TO-DAY I wandered o'er the farm
Near which my early lot was cast,
And viewed the changes with alarm,
Changes that made the happy past
Seem far remote and fading fast.

The fields, where record wheat once grew
Are foul with briars and goldenrod,
Sumac, and ivy. There a few
Lean cattle bite the scanty sod—
Where corn once ripened, thistles nod.

Fences are falling, and the sad
Old barn which once was filled with sheaves,
Where I have played, a little lad,
Shows sagging roof with moss-grown eaves—
Its driveway choked with weeds and leaves.

The boys have grown, and left the place;
The father sleeps, now, on the hill;
And not one dear, familiar face
Of all I knew is left there still;
A tenant robs the soil at will.

The simple, quiet country life
Our fathers loved no longer seems
To please our young whose minds are rife
With thoughts of vast commercial schemes,
Where sudden wealth absorbs their dreams.

Thus do they leave the land to be
Half-tilled by those whose only care
Is present gain—resigned to see
Their birthright useless, brown and bare;
Results confront us everywhere.

Better to base one's hopes upon
The sure foundation of the soil,
Content to hold, when youth is gone,
An humble recompense for toil
Than scheme and fret for power and spoil.

—John E. Dolson, in New York Times.

FRAUDS IN SHIPPING PRODUCE.

An Iowa subscriber desires to call our readers' attention to frauds that are sometimes practiced on farmers who have produce to ship to the central market. Among other things this subscriber says:

Poultry dealers and farmers who make a practice of shipping their produce to the city markets are quite frequently "nicely trimmed" by unscrupulous commission merchants. This article is a little late to serve as a warning to egg shippers, but perhaps it may be in time to serve as a guide to those who are intending to market their poultry and other produce in the cities.

Of course, there are a great many honest dealers that are absolutely reliable. If you happen to be doing business with one that treats you square my advice to you is to "stick to him." Do not be led away from him by the fancy prices that unknown commission men hold before your eyes.

A few weeks ago a dealer in our town received a market letter from a firm in Chicago. They quoted a price on eggs which was two cents a dozen above anything that his regular buyers were paying him. The price quoted was for eggs f. o. b. here. In order to play safe the dealer here attached the bill of lading of the sixty-three cases of eggs to a sight draft drawn on the commission firm, for the value of the shipment. The firm, of course, could not get the railroad company to deliver the goods without the bill of lading and they couldn't get the bill of lading without paying the sight draft. The company wrote back at once saying that they did not do business that way and that the eggs would have to be turned over to them before they could use them. The dealer here, not knowing anything better to do, released the consignment to the firm with the instructions to send a draft for same at once. He waited about a week, but no draft came. He telegraphed several times, but could get no satisfactory answer. He finally became anxious and started for Chicago to see them. When he reached the city he found that the firm had tested his eggs and out of the sixty-three cases only twenty were up to standard, according to their test. The other forty-three cases were condemned as "rots" and "spots." They would probably settle for these at about one-half of the regular price. After a little straight talk the dealer here convinced the firm that he knew what he was talking about and he got full pay for all his eggs. His experience simply cost him his railroad fare to and from Chicago.

That man was lucky. I know of farmers that have shipped produce to the city markets that didn't fare as well as this. They received postal card market quotations that looked good to them and they shipped their stuff. Sometimes, after a considerable delay, they would get returns from it with a letter saying that the shipment had been poorly packed and had spoiled en route.

Another man sent a large shipment to a commission firm that quoted some very high prices. After a month of waiting and writing the man made a trip to Chicago to investigate. He found that the firm had never existed. Not only that, but the location and street number given was a vacant lot. This firm had trimmed a good many farmers and small dealers, but had gotten away before the postal authorities located the men that worked the graft.

It would be wise for anyone that has produce to ship to investigate their commission merchants thoroughly before consigning their goods to them. Precaution costs little and may mean dollars and cents to you.

We are glad to receive these specific instances where fraud has apparently been perpetrated. The cases given in this communication by this subscriber carry their own lesson and the only conclusion that can be reached is simply this, that a very thorough investigation should be made of the reputation and standing of an individual or of a firm before a shipment is made.

Stevens Point potato buyers report that the number of bushels marketed so far this year is about up to the average. While the yield in the north and central parts of the state is large, the scarcity reported from other states has resulted in the raising of prices. It is predicted that they will go above fifty cents a bushel.—[Wisconsin Farmer.

SENSIBLE TREATMENT OF AUTO TIRES.

Corn-belt farmers have millions of dollars invested in automobile tires. As the cost of tires ordinarily constitutes the principal item of auto upkeep, it goes without saying that any advice that will tend to prolong the life of either the inner tubes or the outer casing will in its total save an enormous sum annually.

A tire expert, Mr. F. A. Henderson, has recently submitted a few suggestions which we desire to place before those of our readers who own automobiles.

Mr. Henderson estimates that three-fourths of all tire trouble is due to insufficient inflation. When a tire is improperly inflated the walls are constantly bending back and forth as the car moves with the same result that is produced when a piece of metal is bent back and forth in the hands. The movement generates heat and the heated walls soon weaken and give way. The result is a premature blow-out. Those who fill their tires by guess without testing the pressure are the ones who have the most trouble. For the best results tires should be tested with a good gauge every day, according to this expert.

Little cuts, like little habits, soon get beyond control. They should be cleansed of sand and dirt with gasoline and then filled with cement or quick repair gum. This gum will set within a few hours and become an integral part of the tire and prevent future troubles. A very large cut should be vulcanized. If these cuts are not attended to one must expect sand blisters and mud boils which are caused by sand and dust entering the opening and working in between the tread and the fabric of the casing

Tires frequently wear out prematurely because an axle is out of true. When this is the case the tread surface is constantly grinding on the ground surface, the effect being just the same as if the tire were placed on a grindstone. It is most important that the brakes should be properly adjusted so that the strain of stopping comes on both hind wheels rather than on one. If one brake grips before the other, the tire on that wheel is put to an unnecessary strain. Of course it goes without saying that sudden stops are hard on tires, while skidding around corners can only end in disaster insofar as the life of a tire is concerned.

The life of a tire is shortened by overloading. Tires are designed to carry loads in proportion to their cross sections and diameter. Five per cent added to the weight of a car adds 15 per cent to the wear and tear on tires, and for this reason it is always in the interest of economy to use tires that are one or two sizes larger than the regular equipment that comes on a car.

Mr. Henderson recommends the removal of the casing occasionally so that the rims and casing can be examined. This gives an opportunity to detect weaknesses in the fabric which may be reinforced with a patch and thus a blow-out will be prevented. Rusty rims should be cleaned because rust is defective to fabric. Tires should not be stored or left off any length of time in the direct rays of the sun or kept in very warm quarters. Under such conditions rubber quickly loses its elasticity, becomes hard and soon develops innumerable fine cracks. To secure the longest life and the greatest amount of service from a tire it should be stored in dry, cool and dark quarters when not in use. Under no circumstances should a tire be allowed to stand in oil, as this will soften the rubber, making it pasty and glue-like in consistency and thereby remove its natural resistance and elasticity. Gasoline is the best agent for the removal of oil from tires.

Quality must be the key note of British agriculture, as the area is far too small to enable farmers to grow the quantities of produce that the newer countries of the world can yield; and in no connection is quality of greater importance than that of the cereal crops. Wheat, oats and barley still occupy a considerable portion of the land, and the condition in which they are put on the market substantially affects the prices they realize. —[London Telegraph.

James M. Pierce

THE PUBLISHER'S VIEWS —ON— TOPICS of THE TIME

WITH WINTER COMING ON.

I AM like a burned child, in that I dread a fire. Perhaps I have better reason for this dread than most, if not all, of my readers, because three different times I have seen my publishing plant burn down. It was on the 3d of last February that I had the last experience. Shortly after midnight on a raw, cold night, with the temperature down almost to zero, I was summoned from my home, by the telephone, and, with the members of my family clustered about me, watched the flames wreak their destruction on the building which I had erected twenty years before, as a home for my papers. Medical experts tell me that the human vitality is at its lowest ebb just before daybreak. I can truthfully testify that things looked exceedingly discouraging as I stood there, that bleak, barren morning, and watched the work and plans of years go up in smoke.

However, I did not set out to write with the intention of making this a tale of woe. The damage wrought by the flames that February morning has all been repaired and my publishing plant is in better condition and better equipped today than it was before that last disastrous and costly fire. The thing I had in mind, when I started to write, was rather to use my own experience as the text for a little sermonette on the great importance of being prepared for fires. The cold snap of the past few days, here where I live, has made us all realize that it is not long before winter will be upon us. Most of my neighbors have their fires going these days, the thoughtful ones are looking to their flues and chimneys and there is a general stir and bustle of get-ready-for-winter preparation.

I cannot impress too strongly upon every farmer the necessity of being ready, if a destructive fire ever does threaten. The first important thing to do is to look after the insurance. Nobody can afford to be without ample fire protection. While the rates vary according to location, condition of the property insured, proximity of other buildings and various other matters, it is safe to say there is hardly a farmer in the grain belt who cannot get good, sound insurance protection for $5 a year for every thousand dollars' valuation. It is poor economy to do without such protection, particularly when it costs so little, comparatively.

But the insurance policy is not all. There should be emergency appliances, or, at least, a general understanding of what should be done, in every farm building. I am glad to see that the Department of Agriculture has taken up this matter. Just last evening I read a fire warning issued by the department, together with this very sensible suggestion:

> Every household should be equipped with a fire bucket, provided with a cover, filled with water and used for no other purpose. The best type of bucket is one with rounded bottom, which prevents its sitting on the floor and so makes it useless for ordinary household work. One such bucket, at least, should be provided on every floor of the house or barn.

This is sensible, practical advice, and I hope every one of my readers will give the subject thought. I might add something I know from my own experience, and that is that if you will add to each bucket of water a little more than two pounds of fused calcium chloride it will keep the water from freezing at temperatures above zero. A bucket or two, ready filled with water, waiting a fire emergency, may save a disastrous blaze that might take the whole house and even the adjoining outbuildings. Barn fires were particularly numerous on grain-belt farms last winter. I hope they will be scarce this winter.

So, if you will take the advice of a man who has had three bad fire experiences, just remember these three things:

Keep your property well insured in a good, reliable company.

Have emergency appliances handy in every building.

Instill caution in the mind of every member of the family and every one of the hands.

After all, there's a lot of truth in the old adage that it's better to be careful than to be sorry.

THE VALUE OF A FRIEND.

I DID not have the pleasure of knowing the late Mayor Gaynor, of New York, personally, although my business called me to New York a number of times while he was in office there. I should like to have known him, however, for I am an admirer of the kind of philosophy which he possessed in such abundant measure.

We do not need to consider political differences in dealing with a man like Mayor Gaynor. All we need to consider, from this distance, are the qualities of heart and mind which he displayed in his public life. It is not given to many men, when they lay down their life work, to receive such tributes as were paid to Mayor Gaynor by Theodore Roosevelt and Wm. H. Taft, and, at the same time, to have the sincere, heartfelt sympathy of the countless thousands, unknown to fame and the public print, who mourned for a real friend gone.

After all, there is nothing of greater value in this life than a real, true friend. Mayor Gaynor started life on a farm; he quit it on board a magnificent steamship, in mid-ocean. But in all the journey from the cradle to the grave, he never did anything which marks him as more deserving of notice than those innumerable little acts and words of his which made the poor man his friend. Do you know what happened when his body was placed in the City Hall, in New York, to be viewed by the public? The first man in that long line, which required hours to pass the bier, was a German baker, who had taken his place at the doors in the chilling rain, and had stood for hours, after a hard night's work, just for the privilege of looking on his dead friend's face again for a moment. Right behind him were several Chinamen, later came Japanese, Russian Jews, all sorts and conditions of men, women and children, drawn together by the common magnet: love. To my mind, no man ever had a greater funeral cortege than those thousands of poor people (many of them, literally, starving wretches) who dropped a tear of real, downright sympathy for the man who had been their friend. Before such genuine mourning what is all the eloquence of the greatest public orator, all the melody of the greatest choirs?

Do you want to know why these people mourned? Because Mayor Gaynor was just a homely, simple, common man who was not puffed up by his high position. Just consider a few sentences taken at random from his daily business letters. Here are three I have picked out from among a number:

> Every morning I just forgive everybody and then take up the work where I left off the day before.
>
> I know of no place where there is more philosophy than in a barnyard. You can learn much from animals. Within their circle they know much more than we do.
>
> He who cares to do no more than he is paid for will never be paid for more than he does.

There spoke the man who began life on the farm and who never, throughout all his long life, forgot the philosophy which came to him as he followed the furrow, performed the innumerable chores of the farm home and mapped his life course by the stars at which he gazed from the little attic window of his father's farm house.

No matter what life has already brought us, or what it may yet have in store for us, neither you nor I can ever hope for any greater reward or recompense than such real, downright, unselfish, earnest, all-pervading friendship as was given, in such abundant measure, by so many of the common people, to the man who had gone out from the farm to a high place among the mighty of the land.

A GOOD OLD WORLD.

IT'S A PRETTY good old world, after all. Let's take just a minute and consider a few of the things for which to be thankful.

In the first place, the long-continued drouth, prevalent throughout much of the grain belt, has been broken.

In the second place, prices for farm products are better than they have been for several years, so that even short crops are worth as much money as big crops in past years.

In the third place, the country is at peace with the world, the prospects of war with Mexico being now quite remote.

In the next place, business conditions are again becoming normal, the country being well prepared for the proposed tariff changes.

And now, on top of all these things and a host of others that might be mentioned, comes the reassuring news from no less an authority than the president of the American Medical Association that the next ten years will see the almost total extinction of our most serious diseases. Think of what that means, you who have suffered or lost loved ones with tuberculosis, diphtheria, scarlet fever or any of the other dread diseases.

The basis of this wonderful prediction rests on the remarkable success of the serum treatment. Diphtheria, spinal meningitis and other equally malignant diseases are now successfully treated with anti-toxins, the death rate being reduced to a minimum hardly dreamed of a few years ago. Similar serum treatment is now predicted for tuberculosis, pneumonia and a host of other diseases.

Nor is the prediction an idle one, or one unlikely to be fulfilled. We of the older generation have witnessed the general adoption and the perfection of anesthetics, putting an end to the brutally painful horrors of surgery. The younger generation has been permitted to witness the initial working out by Pasteur of his successful treatment for hydrophobia, the blood discoveries and treatments of Von Ehrlich, the tuberculosis researches of Koch, the invention of the marvelous X-ray machine, and so on and on throughout a long and noted list which makes the present day the greatest of all in medical research. We have all this progress within recent years upon which to base our hopes that the prediction of serum treatment for pneumonia, tuberculosis and other dread diseases will be fulfilled.

It makes a bright prospect, doesn't it? It simply proves, moreover, that when we come to sit down and cast up accounts, it is not long before we are convinced that the good things overbalance the bad, that it's a bright and good old world, after all.

James M. Pierce

Get the Genuine—the can with the Quaker Label—and save your hogs

Lewis' Lye

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Its nine big features make it a really marvelous value—no other car has them within hundreds of dollars of the price.

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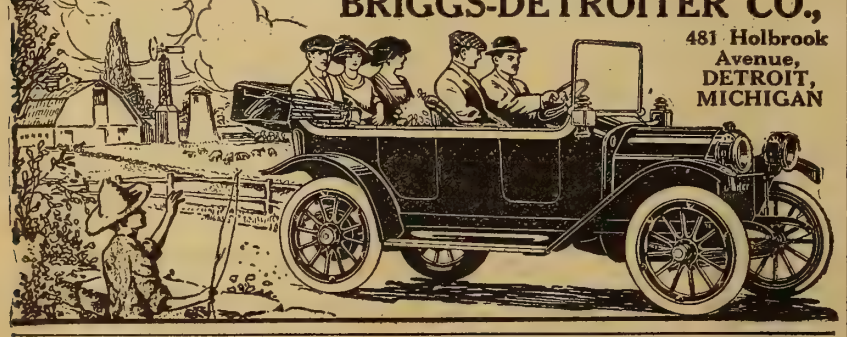
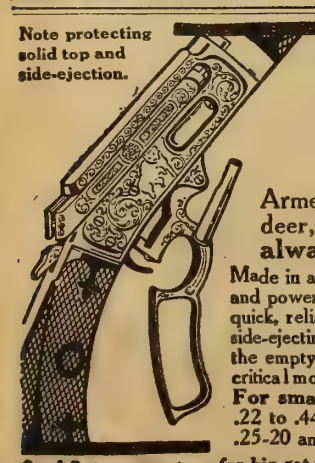


Note protecting solid top and side-ejection.



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Armed with a *Marlin* you can go after moose, bear, deer, with nerve and confidence, for **Marlins are always dependable.**

Made in all popular big game calibers—guns of splendid accuracy, range and power. They have **Special Smokeless Steel barrels,** and the quick, reliable *Marlin* lever action. All have the modern solid-top, side-ejecting construction, which keeps out rain, snow, twigs, sand, dirt; the empty shells cannot possibly be thrown in the shooter's face at a critical moment. ***Marlin* accuracy is famous.**

For smaller game—splendid *Marlin* lever action repeating rifles in .22 to .44-40 calibers; "pump action" rifles in .22 and .25 Rim Fire, .25-20 and .32-20 calibers; repeating shotguns, 12 and 16 gauges.

Send 3 stamps postage for big catalogue; helps you select right gun.

The Marlin Firearms Co., 135 Willow Street, New Haven, Conn.

When Writing to Advertisers Please Mention The Homestead

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Judging by the interest that is being manifested in farm tractors I am of the opinion that it will only be a matter of a few years until most of the plowing and pulverizing will be done with gasoline or kerosene power. Those tractors that can handle three or four plow bottoms appeal to me strongly as labor savers and when they are idle the expense stops.

Having to hunt up heavier underclothes is an indicator of the weather that is to come. Winter and tax-paying time never fail to put in an appearance.

Every farmer can afford a good feed rack in his cattle yard. With feed worth as much as it is this year, one cannot afford to waste it by feeding in a poor feed rack.

I can remember when rough feed of all kinds was considered too cheap to be cared for in a way that insured more than two-thirds of it keeping through a rainy season. Hay was stacked by piling it and fodder was cut only in small amounts, the remaining stalks being pastured after the corn was husked. This year's prices are a great contrast.

There is always some way of getting work done without keeping the children out of school to help do it.

A subscriber writes to the Furrows Department that he saves all baling wire, as he feeds baled hay and uses it when next corn cutting time comes to tie corn shocks. Looks like a trick worth remembering, for shocks tied with binder twine often fall apart because the twine breaks or rots and then breaks.

I look for a good crop of pigs next spring; that is, a good average of pigs to the litter. The average corn belt farmer feeds too much corn to his brood sows, and corn being high in price, it will not be fed so liberally this winter. The result will be more pigs to the litter.

A good feed grinder will come near to paying for itself this year. There is no question in my mind but what grinding adds to the value one can get from grain, but when the price of grain is low the value gained may not be worth enough to equal the cost of high priced labor necessary to attend to the grinding, but this year any little extra obtained from grain will be worth considerable money.

Perhaps it is harping on the same old string, but how about that seed corn of yours? Have you found it yet and is it in a safe place for the winter? There is no use in making a great stir about seed corn in the spring—the time for action is here now.

I have a letter from a Kansas friend, in which he asks how one situated as he is, is going to have fruit and vegetables without buying in cans. This is in answer to the question to the assertion that as long as we live out of cans we may expect a high cost of living. Where all fruit and such vegetables as tomatoes, peas and beans were a failure, there certainly is no other way of getting it except to buy in cans, or to buy fruit, peas and beans dry.

We are now entering the season when we may expect to get all kinds of advice about gathering seed corn, from those who never handled an ear of corn in their life. I think advice emanating from that source does more harm than good and in the language of the school boy I would just like to tell these fellows to "shut up."

The man who would build a hay shed for his cattle this year would build almost as expensively as if he used lumber, if the hay he used was of any account. My first cattle shed was of hay and poles. It was in use for several years but required rebuilding every few weeks during the winter season, for cattle would eat hay off their shed. They would not have eaten it had it been put in their racks. Notwithstanding some of its disadvantages, the hay shed was warm shelter when kept well banked.

To those who are using an automobile for the first season I would call special attention to the importance of putting an anti-freezing mixture into the radiator before there is any danger of injury from frost. If the radiator holds three gallons of water, one gallon of denatured alcohol will answer every purpose until real severe winter weather makes its appearance. A break in the radiator or water jacket is very expensive to repair and here is an instance where a stitch in time saves at least nine.

I have always been very friendly to the plan of fall plowing, partly because the work can be done at a time when the farmer is not rushed and partly because the soil works down better in the spring. My favorable attitude toward this plan, however, is being somewhat altered because of the fact that I have repeatedly seen crops on spring-plowed ground come through the drouth in better shape than on fall plowed. I have in mind an eighty-acre field where eighteen acres were plowed last fall and the balance spring plowed. I believe there will be twice as much corn on a spring-plowed acre as on the fall plowed. I would like to ask the scientists why this should be the case.

For cheapness of locomotion the modern motorcycle must be given first place. My attention has been called to the fact that one of these machines has run 200 miles on a gallon of gasoline. This was a single cylinder machine of low power and possibly was more economical than the more powerful machine.

THE NATIONAL DAIRY SHOW.

According to the program that has been prepared for the National Dairy Show which is to be held this year in Chicago from October 23d to November 1st, special features are billed for each day of the fair period. The events of importance and the dates are as follows:

Friday, October 24th, Grange Day.
Saturday, October 25th, Women's Club Day and County High School Day.
Sunday, October 26th, Mothers' Day.
Monday, October 27th, Ayrshire Day, and Creamery Butter Manufacturers' Day.
Tuesday, October 28th, Jersey Day and Railroad Men's Day.
Wednesday, October 29th, Guernsey Day and Milk Dealers' Day.
Thursday, October 30th, Holstein Day and Milk Producers' Day.
Friday, October 31st, Ice Cream Manufacturers' Day.
Saturday, November 1st, School Children's Day.

Each night will have features of value to the interests represented on that day.

The meetings and conventions that will be held during the period covered by the show include the National Ice Cream Manufacturers' Association, the International Milk Dealers' Association, the National Dairy Union, the International Association of Dairy and Milk Inspectors, the American Association of Creamery Butter Manufacturers, the National Creamery Managers and the Dairy Department Men of the State Agricultural Colleges.

In addition association meetings will be held by the American Jersey Cattle Club, the Holstein-Friesian Association of America, the American Guernsey Cattle Association of America.

It is estimated at this time there will be 1,200 dairy cattle entered. Something like 40,000 square feet will be devoted to dairy machinery and farm and barn equipment including silos and ice cream machinery. A full-sized creamery will be operated each day and in addition a modern pasteurizing, bottling and distributing plant will be run. A full-size ice-cream factory will be in operation and dairy addresses will be given by experts in every branch of dairying. The dairy division of the United States Department of Agriculture has promised to give daily demonstrations of the value of cows in experiments showing cost of feed and results that are derived from sensible feeding and judicious care.

CURRENT EVENTS

THE republican party is seeing a great light. At the republican New York state convention, held last week, a resolution was adopted declaring in favor of changing the party rules so that each state may determine its own method of choosing delegates to the national convention and so that states which give the big republican pluralities shall have proportionately large power in selecting candidates for president. For this purpose the New York republicans call for a special national convention at an early date. Not the least remarkable thing about it all is that the fight for these reforms was led, at the New York convention, by no less a person than Senator Elihu Root, who was chairman of the national convention at Chicago last year, which rode, rough shod, over the progressive element of the party and absolutely refused to hear, or be guided by, the principles which Senator Root now champions. The steam-roller tactics of the standpatters, aided and abetted by Senator Root, brought about the secession of the Roosevelt progressives and the ultimate organization of the progressive party, under the leadership of Roosevelt. It begins to appear as though the Empire state were going to join hands with Iowa and other progressive states of the West in an effort to rehabilitate the republican party and bring about political reforms which will make the party more nearly represent the will of the rank and file of the people who compose it.

TALK is rife in the East of Theodore Roosevelt as the fusion republican-progressive candidate for the presidency in 1916. The movement to weld the two parties, with Roosevelt at the head, is being sponsored by Wm. Loeb, formerly secretary to Roosevelt, later collector of the port of New York and a supporter of Taft in the 1912 national campaign. While this talk is going on, Senator Cummins, of Iowa, is leading the fight for a special republican national convention to revise the rules so as to prevent a repetition of the steam-roller tactics at the Chicago convention, which nominated Taft over Roosevelt, and to make the representation more according to the actual vote cast for president in the various states. The republicans are beginning to see that it is none too early to start plans for the next campaign, particularly in view of the demoralized condition in which the party is at present, owing to the disastrous defeat of Taft. It is confidently expected that either President Wilson or Secretary Bryan will be the democratic nominee and with this understood the republicans believe they should be hitting upon their standard bearer with as little delay as possible.

POLITICAL interest centers now in the mayoralty campaign in New York City. The death of Mayor Gaynor makes the contest a double one, rather than a triple, leaving two tickets: the fusion one, headed by John Purroy Mitchel, and the straight Tammany democratic ticket, headed by Edward E. McCall. Inasmuch as the city will have subway contracts of about $70,000,000 to let during the next four years, Tammany hall is making a particularly hard fight to land the mayoralty and the board of public works, in order to have the disposition and control of this immense sum of money. With Gaynor in the race the democratic vote bade fair to be split, so that the fusion candidate stood a good chance of winning. But now that Mayor Gaynor is dead and his followers have decided not to put a new ticket in the field, the democratic hosts are in a fair way to swing to Tammany solid, so that at present the chances of McCall winning are better than those of Mitchel. The office of mayor of Greater New York is one of the most important political plums in the United States. The death of Mayor Gaynor brought many remarkable tributes of his worth as a man and an official. Ex-president Taft was one of the honorary pall bearers at his funeral. His body lay in state in the City Hall in New York throughout an entire day, thousands of people, of all classes, passing in review and paying their last tribute of respect to a man who had served his state and city to the best of his ability.

THE passage of the Glass currency bill in the house, by a decisive vote, sends that measure to the senate for consideration. Notwithstanding the president's insistence that as little time as possible be lost in enacting currency legislation in keeping with the changed tariff conditions, it is not considered likely that the senate will complete its currency program much before Thanksgiving. Several weeks, at best, will be consumed in the consideration of the present bill. There was some talk of the house adjourning while the senate was at work, inasmuch as the house has practically concluded its business, but President Wilson considers it best for the house democrats to remain in Washington, to give their brothers in the senate the moral backing of their presence and influence. The tariff bill was an immense personal victory for President Wilson and if he can carry out his plans of forcing currency reform at the present special session of congress, he will have legislative matters well in hand and but two-thirds of a year elapsed since he took office. The prospects are good of congress remaining in session practically to the convening of the regular session, the first of December. In the meantime, the tariff differences between the two houses have been practically disposed of, in conference, and the bill will be ready for the president's signature by the last of this week.

POINTERS ON ROAD BUILDING.

Build roads at least forty feet wide; culverts should be thirty feet from tip to tip. Curves and turns in roads should be well rounded. Shrubbery and trees at turns must be cleared seventy-five feet back from the roads. Knobs, bulbs, trees, weeds and shrubbery must be done away with at railway grade crossings.

Those are some of the ideas being pounded into the heads of listeners to the motor road boosters along the route of the trade working trip. Build well, build strongly, build permanently, is the tenor of all the speeches; there is plenty of interest and the indications are that much improvement will be made in many of the roads, because of this road-boosting trip.

"Don't procrastinate; hurry in the work," urges Frank W. Buffum, the road expert, says a dispatch from Brooksfield, Mo. "You townspeople and the farmers are the ones who will benefit most by the better roads. The farmer gains 95 per cent and the motor car owner about 5 per cent as the result of good roads. Better roads mean an increase in value of the farms. Rainy days may be utilized. Now they are mostly idle days for the farmer. With good roads he may go to town on bad days and carry his products.

"With a rock road from the towns along this route to Kansas City, a motor car service for produce carrying would result. That would mean the cutting out of many of the middlemen between the producer and the final consumer. The farmers with rock roads will be the most independent men on earth."

George A. Bond, of the Bond Motor Car Company, said in a speech: "Take a farm worth $25 an acre and put a rock road in front of it and its value jumps to $100.

"Of course, if the farmers get better roads they will demand motor cars. With better road facilities, however, they can better afford motor cars, because they will be more prosperous."

Ask your neighbor to subscribe for The Homestead.

Should Hail, Frost, Drouth or Bugs Destroy One-Fourth of Your Crop You Would Consider It a Direct Loss.

If you are not using a

MONITOR DOUBLE DISC DRILL

you are raising one-fourth less grain each year, than you would had you used it. The Monitor is the only Drill that drops all of the seed in front of the bearing at the bottom of a clean, wide furrow in two rows, at an even depth and covers it with a uniform amount of moist earth.

Every seed grows—absolutely no waste.

It requires one-fifth less seed than other drills and increases the yield from three to seven bushels per acre.

The **MONITOR DRILL** is one-third lighter draft than any other of equal size and will work very satisfactorily where any other drill will work and under many conditions where no other drill can work.

In sections where it is desired to leave the seed bed ridged between the rows of grain to prevent the soil from drifting and to pack the loose soil around the seed, we furnish weight coverers at a small additional cost.

The ridges serve as trenches to hold the snow and rain and are especially useful where the rainfall is light.

We manufacture Drills of every style to meet any conditions in the United States.

Remember our Double Disc, Single Disc Shoe and Hoe Furrow Openers all interchange on the same frame.

See your Flying Dutchman Dealer about **MONITOR DRILLS.**

Our large Monitor Drill Booklet will interest you. It's Free. Write today.

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Dept. 1

MOLINE, ILLINOIS

The Remington Cube get them with the center of the load

REMINGTON UMC

ARROW SHOT SHELLS

SPEED—SPEED—and again, SPEED

YOUR object in shooting is to get your bird with the center of your load. Of course! Then shoot these Steel Lined *Speed Shells.*

They are the fastest shells in the market. Their speed is demonstrated beyond question by the one sure test in all ballistic matters—the Electric Chronograph.

Then, too, there is the experience of thousands of seasoned gunners who have been shooting the Remington-UMC Steel Lined Shells ever since they came out.

The steel lining is the thing. It grips the powder—holds it in *compression*—puts all the drive of the explosion behind the shot.

Your load travels quicker—you shorten up your lead. You cut down the guess work on lead and angles—*you get more birds.*

Your dealer carries these speed shells. Get them. Use them. Find the Red Ball mark on *every* box of shells and metallics you buy.

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Here is a condition of sale that protects you absolutely—covering a proposition that will be the most profitable *investment* you can make for the same amount of money, or more.

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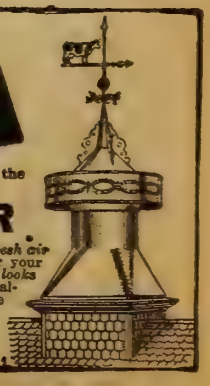
and King Ventilating system turns *free fresh air* into *increased profits* and longer life for your barn and its contents. And it helps the *looks* of a building wonderfully. Good lumber dealers everywhere sell the KING. Get our Free Book *now*—drop a letter or postal card today.



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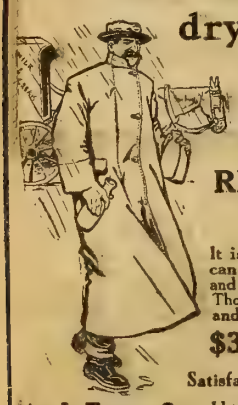

It is all you want, or can get, in a rough and ready service coat. Thoroughly waterproof and strong at every point.

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Satisfaction Guaranteed

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Identified always by this mark TOWER'S FISH BRAND
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Galvanized or Painted Roofing
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Write today for free sample and prices—mill prices, with all middlemen's profits cut off. Send size of buildings and we will furnish free complete estimate of cost. SEE FOR YOURSELF THE BIG SAVINGS.

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WANTED: A men or woman in every locality

AGENTS

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Organization in Farm Affairs

HOW to organize the farm for profit and keep in smooth operation the various branches of a diversified agriculture, using labor, soil and power to the best advantage and steadily increasing the value and fertility of the premises is a problem as intricate as it is immense. There must be organizing efficiency in order to accumulate a surplus of tangible assets through a term of years, and it is certainly true that the man who, by study and thought and business ability, has been able to develop and improve a large farm is better able to secure from the land the maximum yield than an untrained man of less experience. A man needs to have business ability as well as agricultural training to enable him to make a farm show satisfactory profits through a term of years. Many a trained agricultural expert has been humiliated by the sense of incapacity felt while trying to manage his own farm, and, as he gradually discovered the magnitude of his job and the smallness of himself in relation to it, sold out rather than frankly admit that he could not make it pay. Business ability is as much a part of the farmer's equipment as are the farm and the products that he produces. Unfortunately business ability is not always, perhaps not ordinarily, linked with distinguished ability as a farmer. Some of the greatest money-makers connected with agriculture have not gained distinction as farmers. Some of the best farmers in the country have never made a success in a financial way. Men are comparatively scarce who have achieved the difficult two-fold success as business farmers.

It is difficult to measure the profits in farming. There are so many factors, like the fertility of the soil and the value of various improvements in stock and equipment that cannot be inventoried. Many a farm appears to be paying when, in reality, some one branch of its annual operation may be a source of expense that greatly reduces the profits. Some seasons a farm may pay good profits, while actually it fails to show a surplus through a series of years. The real test of wisdom of farm organization and its profits is found in the gain in value of the property at the end of a decade or more, when much of the income has been invested in the business.

The cost of keeping farm records is small in comparison with the bookkeeping expense of the factory; however, it is profitable to keep a very accurate record of the cost of production. It is a vital thing for us to know how much of the products we are producing annually at a profit and which branches are paying the best returns. If there is any one question in all the realm of finance upon which a man may be, and is most likely to be, honestly mistaken, it is that of profit on the farm. If we find that the cost of producing a product is nearly as great as the selling price, then we should determine wherein we, as individuals, can lower the cost of production by a better organization of our business. If we find that the trouble is beyond our control as individuals, then we should plan to combine and attack the problem co-operatively. The time has come when we must organize not only for social improvement, not only to discuss better methods of farming, but vitally, we must organize so that we shall have more to say about what we shall get for our products and what we shall have to pay for what we buy.

If the farm is to be improved and made attractive while at the same time yielding reasonably good profits to the owner, there must be a proper balance between land and equipment. Money must be put in the business before it can be organized and placed on a money-making basis. The hunger for a broad expanse of acres has induced many men to tie up so much of their capital in land that they have not working capital enough to handle their farms properly. The idea that land is the all-important foundation of successful farming has been unduly magnified in this country. Careful investigations of various systems of successful farm management show that when the land is extensively farmed it requires about as much capital in buildings, tools and live stock as in land.

No fixed rule can be laid down as to what shall be the balance between land and equipment. Much will depend upon the location, the character of the farm, the markets and other factors surrounding the business. Suitable and comfortable buildings so arranged and located as to facilitate the handling of the crops and live stock are needed on every well-organized farm, but all unnecessary expense becomes a constant charge upon the business. It is a mistake for a farmer to invest too much of his capital in farm buildings.

Farm machinery and equipment bear a close relation to the labor problem. By the use of improved machinery much of the work of the farm may be greatly lessened. Where the conditions are favorable it means a reduced cost of production, although that does not always follow. If the use of a machine proves but a convenience and not a positive reduction of expense, it must be classed as a luxury. The invention of improved machinery has been a God-send to the hard-worked farmer, but it cannot be denied that its injudicious purchase and the needless exposure, as well as the failure to figure up the cost, has been a tremendous drain upon the resources of the farmer. Clearing the fields by removing stones, stumps, useless fences and trees and draining the low, wet places that delay plowing and planting in the spring should precede the introduction of costly machinery, that the risk of breakage and the delay of planting and cultivating be reduced to a minimum. Breaks are expensive, for to the cost of the repairs must be added the loss of valuable time. A little forethought and the employment of a few days' time will often enable a man to enlarge his fields, remove obstructions and gradually get his farm in shape for better cultivation by improved implements. Connected with this problem of improved machinery comes one of the most perplexing of all farm problems. Intelligent farm labor is becoming exceedingly hard to secure. It takes some brains to use the varied equipment on the diversified farm, but it pays to hire competent men. A man's worth at farm work depends now more upon his wits, his skill and his speed than upon his brute strength. It requires some head work to handle farm teams and equipment and waste no time during the day, and a man without some mechanical ingenuity is like an engine without a balance wheel. It is the man who has the faculty of keeping his team and implements in working order and steadily on the move each day that does the big season's work. The few odd minutes saved now and again tell greatly at the end of the season.

In organizing a system of farming carrying the largest possibilities and insuring the best returns crop rotation is inevitable. It distributes the labor of the men so regularly over the year as to greatly economize the acreage cost of tillage operations and is of aid in settling the labor problem. By growing a rational rotation of crops and feeding them to live stock on the farm it is possible to furnish employment to the same number of men the year round and place them in cottage homes with their families.

Crop rotation aids in securing and conserving soil fertility. No two plants root at the same depth. Corn is shallow rooted, wheat is deeper, and clover is still deeper rooted. Each feeds naturally upon an area of its own. The roots of the plants feed other crops. Each has its own peculiar way to gather nitrogen, phosphoric acid and potash. In the decay of the roots of a plant that can get potash easily, another plant that cannot so acquire it finds it prepared at hand. Clover gives a notable helpfulness in its nitrogen supply to other plants. Its 180 pounds of nitrogen in the roots and stubble of a large crop supplies enough of this element to grow several crops of any one of the standard farm plants. This nitrogen has been gathered from nature without the need of any artificial supply by man. The nodular growths on its roots are a center of nitrogen compounding from the air. The cost of this 180 pounds of nitrogen deposited by a large crop of clover would cost on the market, $36.00. Different crops remove different quantities of materials of growth from the soil and air. Where potatoes take thirty-five pounds of potash, it requires but eleven of phosphoric acid, yet the wheat crop takes more phosphoric acid than potash. Now if potatoes follow potatoes the supply of potash runs out quickly. Rational crop rotations exhaust the soil equitably of the elements of plant food, either in the soil or added by stable or other manure. Each plant has its special fungus enemy and its insect foe and these are not usually those of other plants. Some are above and some beneath the ground. To change the natural food supplies of these enemies and foes by changing crops disperses them. I have repeated more superficial truths than I should but for the fact that so many farmers do not appreciate crop rotation as an aid in supplying plant food and saving the time of men and teams. Crop rotation is the foundation of successful farming. All of the great agricultural regions are fairly screaming to intelligent farmers for diversification, for a change in treatment, for crop rotation.

In organizing the farm some kind of animal production should be a prominent feature of the farm management. In the absence of some kind of live stock the excuse for growing a wide variety of grass and forage crops is wanting. Feeding the soil through live stock makes it possible to secure two profits from farming, besides increasing the fertility of the soil for future crops. It is the only way of eating the cake and having it left. Crop rotation is not a sufficient means of building up the soil. It is merely a part of a complex system which involves stock feeding as its complement. Farming as a business is on a safer and more permanent basis when the bulk of the field crops grown on the farm are fed to live stock and more than two-thirds of their fertilizing value returned to the soil in the form of manure.

Only animals that have the ability to profitably utilize what is raised on the farm should be kept. The feeding of live stock without profit except the manure is a losing transaction. The animal can add nothing to the fertilizing ingredients of the food it consumes, and the increased value of the animal or its product must alone determine the profit. A glance at the thousands of scrub feeders and dairy cows sold by enterprising drovers and dealers is sufficient to prove that the farmers are, as a rule, not cognizant of the importance of feeding high-class stock. Cattle, horses, sheep and swine that have not shown any development, except possibly their horns, ears and legs, will not prove profitable receptacles of valuable feedstuffs, that we raise on high-priced lands. The indiscriminate breeding of live stock discarding the law that "like begets like" has filled the country with animals that prove themselves a source of loss rather than profit. The remedy for this condition of things must be in knowing more about the qualities of each animal and using none but well-bred animals for breeding stock and discarding every animal that does not come up to a fixed standard. In organizing the live stock departments of the farm none but high-grade females and pure-bred males should be kept for breeding purposes. It is useless to grow large crops and market them through unprofitable live stock.

In farm organization we may learn from the manufacturers to give greater attention to the utilization of the waste products. The great meat packers claim that they derive their profits from the saving of the waste products. This may seem hard to believe when buying meat, but it does not seem unreasonable when paying our fertilizer bills. The value of the manure produced by 30 well-fed cows with the usual accompaniment of other stock is about $1,000 per year at the prices we are paying for plant food in other forms. Are we losing a large part of this value by careless methods of farming and going into the markets

to buy expensive commercial fertilizers to make good the loss?

In the first place we must aim to produce on our farms those products which are best adapted to our location and soil products which, for our given conditions, will give the largest profits. If a man makes a specialty of two or three crops and studies the kinds of soil best adapted to their growth he is more certain of success than the man who blindly follows the customs of others. There is such a science growing up around the growth and perfection of every farm crop that it requires continual study and effort to keep abreast of the times. Having determined the products we can produce to the best advantage, we must give attention to evolving a system of farming whereby due care may be devoted to each branch of farming that is being followed and harmonize the whole in a general scheme that will eliminate all waste of time, labor and fertility.

Ordinarily, I do not believe we should do too many things. Any system of management which causes neglect by the individual is wrong, no matter how correct it is in principle. I know because I have had experience both ways. It is a very energetic and ambitious man who can, with a limited amount of capital, make a success of more than one or two branches of farming to which he gives his best services. It is necessary, of course, that he have other lines of work, but the other lines should be, to a certain extent, subservient to his one or two chosen specialties.

Draining Wisconsin Land

THIS autumn will see the completion of work in the Koshkonong-Mud Creek drainage district, Wisconsin, embracing parts of the townships of Cottage Grove, Deerfield and Christiania in eastern Dane county, and extending slightly over the Jefferson county line into the township of Lake Mills. Ten thousand acres of land is included in the district, 6,000 of which is wet land directly benefited by draining. This is accomplished by fourteen miles of main ditch varying from fourteen feet width on the bottom and twenty-six feet width on the top to twenty-six feet width on the bottom and forty-two feet width on the top. The depth runs from six to ten feet, depending largely upon the character of the typography.

The main ditches are principally the courses of Koshkonong and Mud creeks, the latter a tributary of the former, which were deepened and straightened by large floating dredges. Eleven miles of dredging was done on Koshkonong creek and three miles on Mud creek. To do this work it was necessary for the dredges to pass through four railroad bridges, one of them twice. The latter instance was on Mud creek where the dredge worked up-stream and then worked its way back to Koshkonong creek. The Northwestern railway co-operated with the drainage commissioners, making no charge for the privilege of going through their right-of-way, although each bridge removal cost about $1,000. These passages were made on Sunday when there would be least interference with traffic.

Twelve miles of lateral ditch were excavated, most of it by plow operated by horse capstan, and the rest by hand. The laterals varied in size averaging four feet in depth and two feet wide on the bottom and up to ten feet wide on the top. The slope of the sides was two inches to a foot.

The main canal carries the outflow from two other drainage districts, Rattlesnake district, and Rattlesnake addition No. 1 with an aggregate area of 5,000 acres. To drain Rattlesnake district No. 1 four and one-half miles of Koshkonong creek was deepened.

Two seasons' time was required to do the work which was done at a cost of about $30,000 or about $6.50 an acre. The contract price was $26,000, but administration and litigation brought the cost up to the former figure. The circuit court for Dane county granted the petition for the establishment of the district in 1908 but the legal difficulties referred to prevented the beginning of actual work before the spring of 1912.

New and imperfect drainage laws were responsible for much of the difficulty and delay. None of them had been interpreted by the supreme court and a portion of the litigation went to the supreme court of the state for final settlement. The point in question was that upper districts and landowners concentrating water in a ditch must pay for outlet through a lower district or land below them. The upper district contended that since they emptied into a natural stream they were not liable for assessment even if the stream were improved. The supreme court decided that the Rattlesnake district which discharged its outflow into Koshkonong creek was liable to assessment by the Koshkonong-Mud Creek district for benefits received from supplying it an improved outlet. Besides the litigation mentioned there were a number of lawsuits with farmers who protested against the award of benefits and damages.

In order to escape inclusion in the drainage district a number of farmers with land bordering on Goose Lake took advantage of the old common law rule that navigable waters can not legally be destroyed. Goose Lake consists of about forty acres of open water surrounded by about seven hundred acres of marsh and floating bog which makes the open water almost inaccessible. Since that time many of the objectors have repented.

Too little time has elapsed to demonstrate the benefits of drainage in the Koshkonong-Mud Creek district, other than the removal of most of the standing water, but in the older Rattlesnake district some of the lowland has been turned into corn fields with marked success, not to mention the production of valuable tame hay where only coarse wild grass grew before.

The most promising portion of the newer district is the area formerly covered by a large mill pond. This ceased to exist more than twenty years ago when a mill-dam at Kroghville was purchased by the farmers and taken out. This tract has a rich alluvial soil, the result of sedimentation from the creeks over a long period of time. The rest of the drained land is muck and peat. Where subject to seepage from higher land it will require a measure of tile draining and open ditching to make it fit for cultivation.

The Koshkonong-Mud Creek district, although one of the first to be organized in Dane county, was preceded in organization by the Starkweather district in the towns of Blooming Grove and Burke, the Badfish district in the town of Oregon, and the Nine Springs district in the town of Madison. The Door Creek district in the town of Cottage Grove is perhaps the most recently organized.

WORKING STALLIONS.

To the Editor of The Homestead:

I think it would be vastly better for the horse-breeding industry as a whole, if stallions were worked just as other horses are on the farm. It is admitted that to do his best work in the stud the stallion should be in the very best physical condition. All his functions should be working to their capacity, and in horses that condition is achieved only when work is being done. I do not mean just light work or that the animal should be put right through from morning to night. It is better to err on the side of working a stallion too hard than of not working him enough.

Coddling an animal of this kind would imply too close confinement and too little acquaintance with the great outdoors. Stuffing would imply the feeding of too much grain for the amount of exercise taken. Together the two form a combination that is bad as bad can be for any horse, stallion, mare or gelding.

Now, it is always poor policy to find fault if at the same time a remedy cannot be found. It is an awful chore to exercise a stallion every day, either riding, walking or driving him so many miles along the road. Besides, it is a job that costs money, for everyone's time is worth something in these strenuous days. It is admitted that every stallion should have abundant exercise every day. The most eminent authorities say that a draft stallion should have not less than six miles, and preferably eight miles, exercise every day of his life. Why not let him get his exercise while doing something useful?

Subscriber.

THE COLT'S FIRST WINTER.

To the Editor of The Homestead:

The colt's first winter is a critical period in his life. Get him through the first winter in good shape and if he has good blood, he will be most certain to make a valuable animal. The colt that is taken from its mother and put on dry feed is apt to become stunted and long haired. He should have special attention when taken from the mother, and his feed must be of the right kind.

If the colt is allowed to gorge himself on roughness, he is liable to develop what is called the "pot belly." When this is developed the colt stands a fine chance to become a scrub horse. Their hair will become long and their legs wobbly and their color will have a deadness about it, showing the lack of vitality.

To prevent this and to bring the colt through the winter in first-class condition his ration should be largely of grain. Oats and barley are especially good for the colt, and if he is given a good ration of these grains he will keep in good flesh. Corn on the cob is too tough for the colt. Shell the corn and have it crushed. It will be more nourishing and easily masticated. Musty hay or grain should never be fed. It is practically devoid of nourishment and is a breeder of disease. Ten or fifteen pounds of good hay will be sufficient for the colt each day.

The colt should not be confined in a stall. Put him in a lot where he can jump and run. A good run will do the colt good. A colt may be allowed to run in the pastures during the pleasant days, but must always have, as a refuge from the storms, a good shelter to which he may have free access. Plenty of water from a well or cistern is also essential.

Subscriber.

TALKING AGAINST WHEAT RAISING.

Agricultural professors have lately invaded central and western Kansas by special train, preaching the gospel of more kaffir corn and silos, that more live stock may be kept upon the farm. They are telling the wheat farmer of Kansas that he should cut his wheat growing in half and devote more of his time and attention to stock raising, which system of farming would have a tendency to build up his farm land. Their talk isn't sounding good to the farmer who made well out of wheat this year, the one crop that matured ahead of the drouth. At any other time, a more attentive ear might be turned toward the speaker who thus talks against wheat, but when wheat has just proven to be the most profitable crop the state has produced, talking against it is quite unpopular.

The Farmer and Stockman has always been a believer in diversified farming, meaning by this the keeping of live stock in connection with grain growing. This the wheat belt has not been doing in a general way, except in the way of the work teams necessary and a few milk cows. To keep cattle extensively has always been far from the mind of the wheat raiser. Now comes the special train, with a battery of speakers, advising the farmers of the wheat belt to cut their wheat acreage in two and to devote half their attention to the growing of drouth resisting crops that will make good silage, that more live stock may be kept upon the farms. This is sound doctrine so far as the winter feeding season is concerned, but we are not told how the cattle are to be kept through the summer in a country where pasturage is as short as it is where wheat is grown so extensively. But talking against wheat when it has just proven to be the most profitable crop of the season is talking very much against popular opinion. In the long run, though, farmers have got to quit the one-crop system, and, as one looks into the future, the advice to let down on wheat growing is sound.—[Farmer and Stockman.

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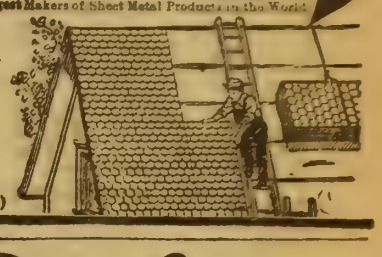

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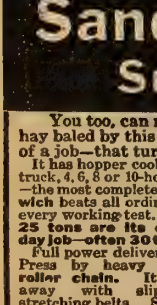

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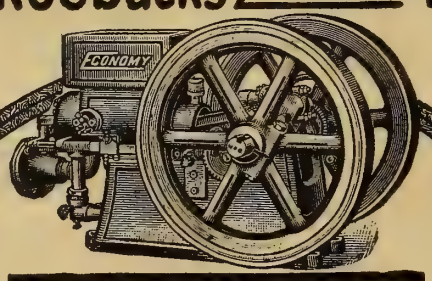

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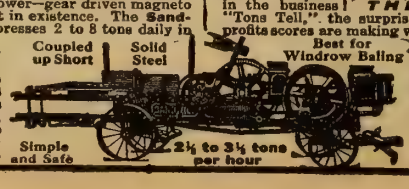


LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

PRINCIPAL AND AGENT.

The relation of principal and agent is a very important subject, and is not very well understood generally, except among lawyers. Business affairs have become so extensive and complicated that many people are obliged to deal with each other by and through agents in order to supply their wants and accomplish their purposes. The person, firm or corporation who employs an agent is called the principal and the agent is the one who represents the principal in dealing with other parties. An agent is usually a person, but a firm or corporation may be, and act as, the agent of a person, firm or corporation. The relation of principal and agent is always based upon a contract between the parties, and as a general rule the agent's powers, duties and liabilities are fixed and limited by such contract. Where an agent acts within the authority given by the principal in such contract, he is but the instrument of the principal and his acts are deemed by law to be the acts of the principal. Whatever a party has the legal right to do may be done by and through an agent, except as to matters which are personal in their nature. Every person who is legally competent to act for himself may act through an agent, and every person who is competent to act for himself is also competent to act as the agent of another. A person of unsound mind is incapable of being either a principal or an agent. He can neither lawfully appoint an agent nor act as one. This is a general rule, but there is an exception. A minor cannot act as principal; he may lawfully act as an agent, his acts in that capacity being deemed the acts of his principal. A minor's contracts in his own behalf are not actually void, but only voidable. He may upon coming of age repudiate his own contracts made during his minority. It would therefore be absurd for him to act through an agent. He cannot confer upon another the power to do valid and binding acts when his own acts are liable to be repudiated by him at maturity.

A principal is bound by the acts of his agent where such acts are within the scope of authority given by the principal to the agent. If the acts of the agent be outside of the scope of authority given him they will not, as a general rule, be binding upon the principal. However, where the acts of an agent are not expressly authorized by the contract of agency, yet if the principal has placed the agent in such a position as to lead parties with whom he deals to believe that the agent is acting within his authority, the agent's acts will be binding upon the principal.

As a general rule, a person deals with an agent at his own risk. The representation or statement of a person that he is the agent of a person, firm or corporation is not conclusive evidence of that fact. Many people are deceived by persons who claim to be agents, and have no adequate authority as such. Every person dealing with a stranger who claims to be an agent should carefully investigate his claims, and demand that he produce some evidence of his authority beyond his mere statement. A reliable agent generally has some means of establishing the fact of his agency in a satisfactory manner. If a person acts as an agent without authority or transcends his agency or departs from its provisions he is personally liable to the person with whom he deals. In signing contracts an agent should disclose his agency in the contract and name his principal. The contract should be in the name of the principal the agent signing the principal's name thus: Reed and Company, By John Doe, agent.

LAW QUESTIONS CONSIDERED.

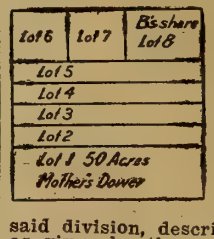
PASSING AUTOS.

A Subscriber, Carroll, Iowa.—(1) Is a person driving an automobile on the public road, required by law to give any signal when desiring to pass another auto going in the same direction? (2) On which side must an auto pass another going in the same direction? (3) When two autos are going in the same direction, and the rear one tries to pass, has the driver of the forward car, any right to leave the main track and crowd the passing auto into the ditch or against the fence? If there be an accident in such case, who is liable for damages?

Answer.—(1) No signal is required by law in such a case. (2) The law of Iowa does not specify on which side an auto must pass another going in the same direction, but the general rule of the road is to pass on the left side. (3) The forward auto driver has no right to crowd the passing car to the fence or into the ditch, and if he does so he is liable for all damages such conduct cause.

TERMINATION OF DOWER INTEREST.

A Subscriber, Hume, Ill.—A died in 1875, leaving 160 acres of land in Illinois to his wife and children. In 1878 B obtained the share of one of A's sons in his father's estate, by the foreclosure of a mortgage. In 1880 B applied to the court to set aside the dower of A's widow and divide the land which was done according to the diagram herewith given. In 1882 B sold to C the land set apart for B in said division, describing same in deed as given by the court in the division, being lot 8 as shown on accompanying diagram, but made no mention of any dower interest. B never paid taxes on it, nor collected rent, and did not appear as a party in the suit to partition the widow's dower part, in 1898. The widow of A died seventeen years ago. C farmed said lot 8 until he died three years ago, and paid taxes on it. In the settlement of C's estate, the dower question has come up to be determined. Who is the rightful owner of said son's share in the land set apart to his mother for dower?



Answer.—According to the foregoing statement, B obtained the entire share of one of A's sons in his father's estate. When B sold lot 8 to C, he did not convey to C all the interest he received from A's son, but only lot 8, the part set aside as dower for the widow describing lot 8 as given by the court—hence C has no interest whatever in the 50 acres, but B has the same interest which A's son would have had, if it had not been transferred from the son to B.

ADJOINING LANDS.—TIGHT FENCES.

A Subscriber, Council Bluffs, Iowa.—My neighbor has put in his half of the division fence between our lands, hog tight. Is there any law which requires me to make my half of the fence hog tight?

Answer.—There is. The law provides that "all partition fences may be made tight by the party desiring it, and when his portion is so completed and securely fastened to good substantial posts, set firmly in the ground not more than twenty feet apart, the adjoining property owner shall construct his portion of the adjoining fence in a like tight manner. * * Upon the application of either owner, after due notice, the fence viewers shall determine all controversies arising under the fence law, including the partition fences made sheep and swine tight."

PARTNERSHIP IN OPERATING FARM.

Mr. Chas. Schott, Donnellson, Iowa.—A owns a farm, and he and B went into partnership to operate it. Each party owns half of the stock and machinery, and each is to get half of the gain from the enterprise. Each party reserved two horses for his own private use. B's horses raised two colts. A's horses raised none. One of B's mares died, and B suffered the loss and the expense of veterniary treatment. (1) Can A lawfully claim a half interest in the colts, by paying half the service fees, taking into consideration the feed consumed by the colts? (2) How should the matter be settled?

Answer.—(1) If the mares belonged to B individually, the colts also belong to him, and A cannot lawfully claim any interest in them, but if the mares were partnership property, be-

longing to A and B, then each one has a half interest in the colts. (2) Assuming that B owned the mares, he should pay all stallion service fees, and should pay A for half the value of the feed which the colts consumed.

MARRIAGE OF FIRST COUSINS.

A Subscriber, Wagner, S. D.—Is there any state in the Union where first cousins are allowed to intermarry?

Answer.—In the state of Wisconsin first cousins may lawfully intermarry.

BACHELOR AND MAID.

A Subscriber, Pocahontas, Iowa.—Does the law of Iowa allow a bachelor living on a farm to hire a young unmarried woman to keep house for him?

Answer.—It does. There is nothing in the law that prohibits such an arrangement.

CONTRACT FOR LABOR—RENT.

A Subscriber, Toulon, Ill.—A and B made a contract by which A hired B to work by the month for one year, beginning March 1, 1913, and B was to have the use of a house and garden. In case B should have good cause to quit work, or A should have good cause to discharge B before the end of the year, would B be liable to pay for the use of the house and garden?

Answer.—B would be liable to pay for the use of the house and garden for the time he would use them, after quitting work for good cause, or being discharged for good cause.

OBSTRUCTING ROAD—INJUNCTION.

A Subscriber, Reinbeck, Iowa.—A forty-acre tract of land has had a road running across it for more than fifty years, and this road has been used as a mail route ever since we have had rural delivery. The land was sold last spring, and the purchaser proposes without any petition or legal proceedings, to put a fence around the land and shut up the road. Has he a right to do so, and how can we keep the road open?

Answer.—The owner of the land has no right to shut up the road, and you can obtain a writ of injunction from the district court restraining him from so doing. You will, of course, need a lawyer to attend to such proceedings. It is the duty of the road supervisor to remove obstructions in the public road. The road supervisor is now known as road superintendent.

RIGHT TO GRADE UP LAND.

Mr. Curtis Glessner, LaPorte City, Ia.—A owns twenty acres of land inside the city limits. Has he a right to fill in a low place on the land, and thus prevent the city from letting the waste water from the streets overflow his land during freshets?

Answer.—A has a lawful right to fill in his low land for the purpose mentioned.

DISSOLUTION OF PARTNERSHIP.

An Iowa Subscriber.—A, B, C and D are partners in the coal, grain and feed business, each one putting into the enterprise $3,000. B had nothing, but C and D, who are his brothers-in-law, either advanced his share or became security for it. A and B do the work and receive $100 per month each for such services, A is the bookkeeper. After all expenses are paid the profits go to the company. So far there have been no profits. For some time B has been drawing $200 per month, charging the extra $100 to himself. A objects to this, but is powerless to prevent it. He has imformed C and D of the fact, but they will take no action about it. (1) Is not B guilty of embezzlement? (2) What is the legal remedy for such a state of affairs?

Answer.—B is not guilty of embezzlement, because in law one partner cannot embezzle partnership funds. He can only render himself liable to an action for accounting. (2) The proper legal remedy in this case is for A to bring a suit in the district court for a dissolution of the partnership and an accounting. In such suit the court would enjoin B from receiving more than his $100 per month, and possibly from receiving any, till the final judgment, and if the facts would warrant it, the court would appoint a receiver to settle up the partnership affairs.

DIVISION OF PARTITION FENCE.

A Subscriber, Marshalltown, Iowa.—A and B owned adjoining farms in Iowa twenty-five years ago. There was a lawful partition fence between the two places. A desired to put up a board fence on the line, B gave A his share of the wire fence and A was to build all of the board fence, which he did. Ten years later A sold his farm to C, including in the sale all of the line fence. Now B has sold his farm to D without any mention being made of the line fence. In the meantime C, the new owner of A's farm, has removed the boards from the fence and put on wire instead of them. Can D hold half of the line fence and if so can C compel D to pay for half of it?

Answer.—C is the lawful owner of the entire line fence and if it is a lawful fence, C can compel D to pay for half of it. If the parties cannot agree upon the division of said fence, and the value of half of it the fence viewers should be called upon to meet and determine what portion each party is to keep in repair, and the value of the half assigned to D.

POLL TAXES IN INDIANA.

Mr. Wm. H. Ward, Fortville, Ind.—(1) Can an incorporated town in the state of Indiana compel a citizen of the town to pay what is called a privilege tax of $2? (2) Does an honorably discharged soldier from the regular United States army have to pay poll tax?

Answer.—(1) What you term privilege tax is probably poll tax. Incorporated towns in Indiana have a right to levy and collect such taxes. (2) There is no provision of law exempting such persons from the payment of poll taxes.

SETTLEMENT OF AN ESTATE.

A Nebraska Subscriber.—A, who was a bachelor, owned 400 acres of land in Nebraska, $2,000 in the bank and about $4,000 in personal property. He died leaving a will by which he gave B, a relative, a certain sum of money and the balance of his estate to his brothers and sisters. B also had a claim against the estate, which was allowed. The will was probated and six months has expired for the allowance of claims against the estate. The brothers and sisters objected to the allowance of B's claim and have appealed to the district court. They also object to the executor paying B the sum given by A's will. How long will B have to wait before she can get the money allowed by the will and what should she do to obtain it?

Answer.—The estate should be ferially settled within eighteen months after A's death—and must be settled within three years. If the personal property is sufficient to pay B and the debts, the real estate cannot be sold by the executor, but if not sufficient, then the real estate or enough of it to pay the same must be sold. The brother and sisters cannot prevent B from getting her legacy, but B may have to wait till the estate is ready to be settled by the executor. B should see that there is no unnecessary delay in such settlement, and if necessary, employ a lawyer to look after her interests, and push the matter along.

WAGES OF CHILDREN—WIDOW'S PORTION.

A Subscriber, Waldron, Mo.—(1) Can an unmarried son or daughter living at home with parents, collect wages from the estate of the parents for taking care of them during their last illness, in the state of Missouri? (2) Where a man dies leaving property and a wife and children in Missouri, what is the lawful share of the wife in the estate?

Answer.—(1) The son or daughter cannot recover wages from the estate, unless there was an agreement to that effect with the parents in their lifetime. (2) The widow is first entitled to what is called the widow's allowance, which consists of family bible and other books of value of $200. All wearing apparel, wheels, looms and other implements of industry, yarn cloth and clothing made up for family use, grain, meat, groceries and provisions for use of family for one year. Household and kitchen furniture to the value of $500. And she may choose other personal property of value of $400. All of this is clear from the debts of her husband. Then she is entitled to a child's part of all the balance of the personal property after debts are paid. In addition to the above, she is entitled to dower in all real estate of her husband, which is one-third of it during her lifetime.

ADJOINING OWNERS—PARTITION FENCE.

A Subscriber, Monroe, Iowa.—A and B own adjoining farms. The partition fence is three-quarters of a mile long and is divided between them. About a year ago when the fence was divided A wished to make his part hog tight. A now wants to turn hogs on his ground next to B's part of the fence. B wants to make a new fence on his part of the line. Is he required by law to make it hog tight?

Answer.—If A's part of the fence has been made hog-tight, B will have to make his part tight also. The law of Iowa provides that all partition fences may be made tight by the party desiring it, and when his portion is so completed, and securely fastened to good, substantial posts set firmly in the ground, not more than twenty feet apart, the adjoining property owner shall construct his portion of the fence in a like tight manner.

Government statistics show that during the fiscal year ended June 30, the value of fruit exports from the United States was more than $36,000,000, or an increase of exactly 100 per cent in ten years. American fruit is being constantly improved in quality and is commanding constantly increased prices on foreign markets. Green and ripe apples continue to be the most popular American fruit. The United Kingdom has used during the year just closed more than 1,300,000 barrels, valued at $1,000,000, and other countries 560,000 barrels, valued at $1,638,000.

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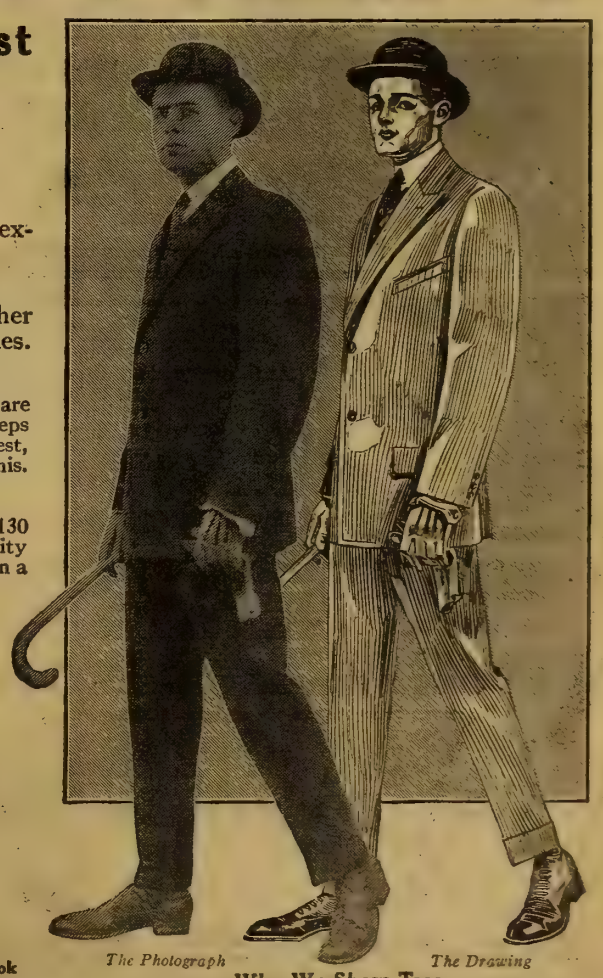

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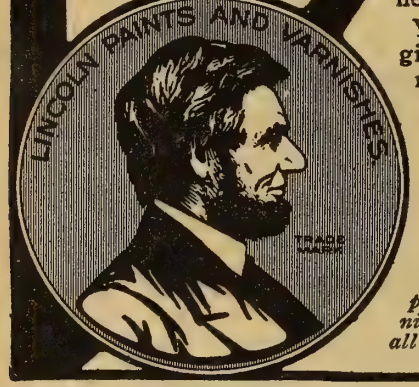

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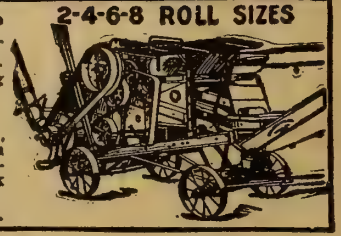

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Farmers Not Effectively Organized.

By G. A. Christie, Purdue University.

IT IS possible to show that the farmer has pretty good reasons for not being effectively organized. Heretofore when the farmer has been called on to co-operate, it was largely done for the purpose of seeing who could make the most money out of him. The promotor that went out to organize the local creamery, of course, tried to give the idea that he was organizing that creamery to help that community and to help those farmers, when, in reality, it was to help the man who had machinery to sell. All over Indiana and, all over other western states, at almost every crossroads those promoters, whose object was to sell machinery to get some revenue for the promoter and for the company behind him, established those creameries; and they did not care anything about what became of the farmer. As a result, the creameries have gone out, and the farmer has become more suspicious and we have everywhere evidences of the reaction from those failures in the past.

Another thing: along with the creamery has come this stock ownership of animals, particularly stallions. Stock companies have been organized all over this country to sell $500 stallions for $3,500 and then immediately another man comes around with a better horse, as he says, and wants to sell him, and does sell him. Those things have been going on all over the central West until, when we find promoters talking about promotion of anything, everybody grows suspicious and goes back to the farm. Then we complain and want to know why the farmer has not been more effectively organized.

We find, too, that the farmer has been called upon to organize to sell in a co-operative way, and has again suffered. Let me offer you a little illustration. Here is the difference between the farmer and the business man today. The business man in the town takes into consideration the cost of producing an article, the cost of advertising, putting it on the market, all necessary expenses attendant throughout, and when he offers it to the farmer, he has a price which he knows he must have for that article, or he can't sell it. Take the real estate man. When the farmer is going to move into town, the farmer goes to the real estate office, and the real estate man says, "How much do you want to pay for property?" And he answers, "So much." "I have a house and lot worth $3,000, or a lot worth $800, or another one for $500." Your real estate man has put the price on his property and the farmer is called on to pay it, or he can't get it.

On the other hand, we find the stockman out in the country. He comes to town and Smith says to him, "You have got a fine lot of hogs. How much do you want for those?" and the farmer turns to him and he says, "What are the hogs worth today?" The farmer has been forced so long to accept what was offered to him that he does not think to take into consideration what it has cost him to raise a bushel of wheat or to demand that he get the price to cover the cost.

Just as soon as the farmers do form co-operative agencies they set a price on their corn, their grain, and then what happens? The court rules that they are organized in restraint of trade, and rule them out of existence. I feel as strongly as anyone can the failure of the farmers effectively to organize themselves, but I want to say that the farmer has never failed to do that which he has been called on to do.

We have not today the co-operative market that we might have for selling and buying, but we have an institution that exists all over this country that the farmers have brought about and that is our consolidated school—an institution that the farmers voted for and paid for, and it is for the benefit of the farmer, and I want to ask you if the farmer is not effectively organized in that respect? Those schools are catering to the needs of our educational system. And why were they organized? Simply because our legislators, our government, have seen the great need for such an educational institution and they have found out the way by which these farmers may organize and get that institution which will meet their needs.

So we come down to this matter of co-operation in buying and selling. Just as soon as somebody will point the way and will show the farmer that it is not a scheme to exploit him, just as soon will the farmer be ready to take it up and back it up and organize so that we can get results.

Five years ago the farmers in a certain section of Illinois were asked to contribute $10,000 to locate an expert in a certain county, so he could show them how to test corn, but the farmer said, "We don't want any of those fellows in our county." How has that changed in five years? We can't find the men to take the places that are offering $3,000, $4,000 and $5,000 to such men. The farmers are going right down into their pockets, putting up that money and organizing those associations. We have these men all over the country, going out as county agents, or advisers, whenever you call them, and the farmers are taking up that matter and making money out of it.

I believe one great reason why we have not had success in the matter of co-operation among farmers in buying and selling is because we have never had a truly co-operative scheme. The average scheme has been to organize a stock company, one man will take a thousand dollars' and another man a hundred dollars' worth. Suppose we take the co-operative elevator which we all know about. When we come to sell the grain through that elevator, the men were paid their price, and when the returns came in, we paid the running expenses and then, after we paid the running expenses, generally the scheme has been to pro-rate the profits on the stock subscribed, so that the men who have a greater amount of stock in that company get the larger dividends, while the man with a less amount of stock, who may have marketed a very much larger amount of grain, gets practically no dividend. Now, that is not true co-operation, and we cannot hold the farmers together if we continue to offer that scheme to them. If, in the case I have given, the surplus is prorated according to the amount of product that has been furnished by each member, then you will have what I call true co-operation, and when we have something like that, I think we are going to be able to hold them together.

This co-operative organization, any kind of a co-operative organization, must be built on an economic basis, both for the farmer and the people who are to get the products from the farm. Just so long as we go around telling the farmer that to do this will require the expenditure of a lot of money, we cannot work up enthusiasm for any such schemes.

We have found out that there are certain people who can go to the farmers and organize them, and there are certain others who do more harm than good by trying to do so. So, if we are going to get results from this scheme, we have got to put in the right kind of agents, men who will convince the farmers that they will be protected from the things they are afraid of, and that this matter of co-operative organization is what they need and must have. We hear very much criticism of the farmer, but I want to say in all my experience with the farmer, I have found he has been ready to back up any legitimate, right enterprise that can be shown to be for his good and for that of the community.

The farmer is slow, and you can't blame him for being that way. You cannot turn out large numbers of ideas for the farmer and get him to act on them all. He moves slowly.

The great problem before this country has been that of production. Everybody has been out to get after the farmer to produce more from his land, and I think he is responding,

that we are going to have larger production.

Now we are ready for another thing, we are ready for some organization to further this cause and if we will create the sentiment and then we will go out and plan the right method of procedure and then we will send the right man to the farmer, I believe we are going to get organization.—[Address before Marketing and Farm Credits Convention.

FAVORS CONSOLIDATED SCHOOLS

To the Editor of The Homestead:

In regard to consolidated schools I wish to say a few words, as there seems to be a difference of opinion among many of our citizens. I am satisfied that consolidation of schools is the only way that they can be made more efficient than they are at the present time. In fact, a great many of our schools, at the present time, have only from five to ten pupils enrolled and in such cases they are more expensive to keep up than the consolidated schools would be, and the farmers pay a greater tax to keep up their schools than they would if they had to hire buses to take their children to a central school. In Indiana where consolidation has been tried, I have seen the statistics furnished by a circular issued giving the cost per pupil, and it was in favor of the consolidated school.

A few years ago I visited a school in Franklin county, this state, and when I arrived at the door everything seemed so quiet that I thought that the school was closed, but on knocking, I was met by the lady teacher, who invited me in, and on doing so, imagine my surprise to find only two pupils, boys, one about thirteen years of age and the other eleven. I stayed there half a day and it was amusing to see the number of recitations that were held for those two pupils. The teacher told me that she did not expect to enroll any more for the year. I think that she told me she received forty dollars a month. Now take into consideration the amount that it took to keep the school in session for the nine months, and we can see that it was an expensive school to keep. There are many schools today in this state that do not have pupils enough to make it interesting for either the teacher or the children.

Anyone who has ever taught a country school knows that he cannot create any enthusiasm in a small school, and if we had from four to five of those schools united we could have far better work done by the pupils. The school would be graded so that there would be so much better opportunity for the pupils to advance in their work. It seems to me that no one who believes in progressive principles can be opposed to the consolidation of schools.

Again we hear some one say that the pupils are more liable to take cold when being taken in a bus, but that is far from true, as the child that is taken in a bus is well wrapped, while those who walk to school a mile or more are liable to have wet feet and are much more liable to take cold than those who ride to school. Consolidation has been tested in many states, and is proving a success. It must come, as the rural schools are not accomplishing enough for the pupils. The number of pupils are decreasing in our rural schools, due in many cases to the enlarging of farms and many people leaving for other fields. I have a niece that is having her children taken from the door every school day in a bus and delivered in the evening at home. She thinks that it is the best way to get children to school. I am aware that in many rural schools the people pay good wages and have good schools with enough pupils to make it interesting and if all of the rural schools were in this condition there would not be so much need of the consolidated schools.

I have heard the farmer argue that if we had consolidated schools he would not have his children at home nights and mornings to do the chores. It seems to me that the "anti" consolidated schools must have drawn on his imagination in writing as he did about the schools and the conveyances. I should like to know whether or not the gentleman knows the condition of our schools, and if he does not, it would pay him to put in a week or two visiting the rural schools, and it might possibly change his point of view. I know that the schools of Iowa are not what they should be, and I also know that they would be improved if we had more competent teachers, but if they were united in one large whole, fewer teachers would be necessary and 50 per cent better work would be done. Thirty-three years in the schoolroom and several years in the school furnishing business have given me an opportunity to see the failings of our rural schools.

There are four schools near this town, and those pupils could be brought to the town school where they could have the benefit of graded work. The schools have not enough pupils to make it interesting and there is plenty of room to accommodate all of them here, and it would be less expense to the taxpayers. The Buffalo Center school of this state has been a success as a consolidated one and I have heard the people of that section claim that they were more than satisfied with it.

Consolidated schools will come as they must, and when once established we shall wonder why we did not have them sooner.

James Lawrey.

Pottawattamie Co., Iowa.

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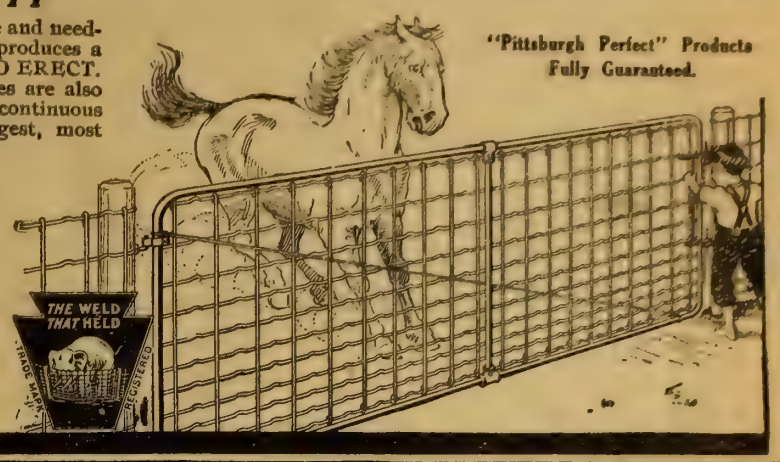

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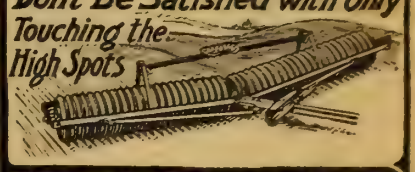

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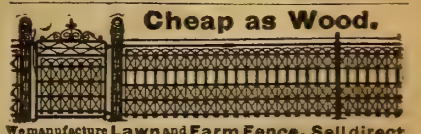

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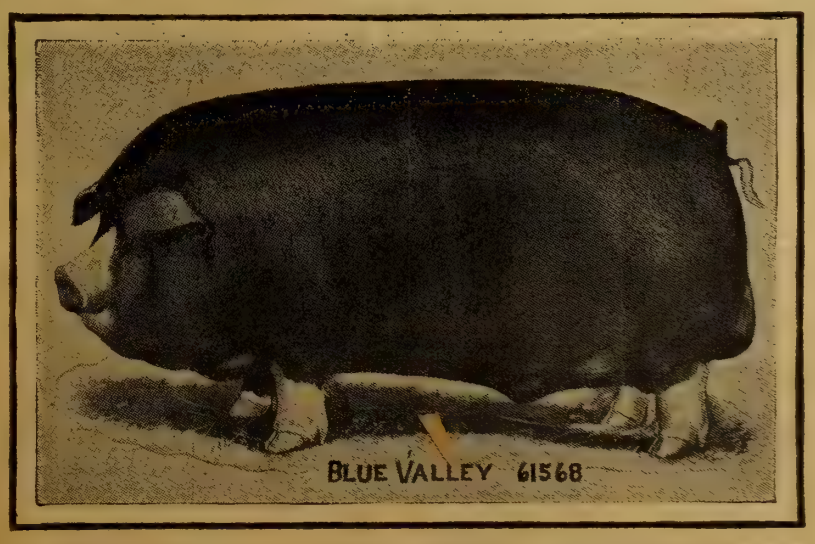

The illustration shown herewith is that of the great Poland China boar, Blue Valley 61568. This boar is at the head of the Thos. F. Walker & Sons herd and was bred by them. They have boars for sale sired by this boar. Kindly notice the advertisement on page 45.

In and Around Wisconsin

THAT tuberculosis is prevalent in some of the herds in Crawford county is evident from the fact that when a herd of fifty or sixty was recently being driven across country in the neighborhood of Petersburg, several gave out after they had gone a short distance and six died on the way. A Soldiers Grove veterinary called to make a diagnosis found that the cattle were afflicted with tuberculosis.

Chicago milk inspectors are making another round of the farms in the vicinity of Walworth in order to see if the recommendation of improvements made by them on their May rounds have been carried out. Those who have not complied by October 1st will not have their milk accepted.

The L. Starks Company has closed a contract with Frank Pollock and J. A. Porter whereby the company secures 7,000 additional acres for their potato farm in Oneida county, this giving them the largest tract for potatoes in the world. Their holding is over 18,000 acres. To utilize the pasturage on these lands Mr. St❜ks will buy 25,000 head of cattle in the spring and fatten them for market.

Shipment of sugar beets from the district east of Lake Winnebago is expected to begin within a few weeks. In many parts of both Fond du Lac and Calumet counties the beets have been ripening rapidly during the past few weeks, and they are now practically ready to dig. The crop on the whole is an excellent one, although the acreage devoted to their growth this year is not nearly so large as that of a year ago. Last year thousands of tons of beets were shipped from Brothertown Harbor across the lake to Oshkosh and were then placed on board gondola cars for shipment to the Menominee sugar factory. The shipments kept one boat busy the greater part of the fall season.

Apple trees which are blossoming for the second time are reported from Fond du Lac and Flintville, near Green Bay. There are two at Fond du Lac, one on the property of W. S. Burgess and the other in the garden of J. Marinan. The Burgess tree, which is seven years old, was in bloom as usual in the spring, and is now bearing some choice apples. The Marinan tree is about five years old and blossomed in the spring, but no apples developed. The blossoms are well developed and fragrant.

The Frank Herfort Canning Company, of Baraboo, reports that sweet corn is not turning out as well as expected from indications a month or more ago, but the quality is holding up better than usual. The corn is free from worms which is a saving to the canners.

Not less than ten thousand barrels of apples will have been shipped from Kendall before the close of the season.

A $4,000 schoolhouse for the use of five districts is to be erected in the town of Eagle Point, Chippewa county. The state is to furnish one-half of this amount. Although some of the pupils will have to come farther to attend school than before, the state allows all pupils living two miles or more from school, ten cents a day for transporting them to and from school.

The season's run at the Grantsburg pickling plant will be the largest since the plant was started. More than one thousand barrels of dill pickles have been made and there are twelve tanks containing 750 bushels each of salt pickles. The Heinz pickling station at Baraboo has closed. The season in that vicinity has been a fairly good one, although those raising cucumbers on sandy soil did not have the crop expected because of the long run of dry weather. The acreage this year set a new record and the size of the pack was correspondingly greater.

Manager E. L. Reams, of the Crex Carpet Company, which has a large tract of grass land near Grantsburg says the cut of twine grass this season will be 50 per cent of last year's cut. The dry spell in the early spring made the yield light.

Sixteen students, nine boys and seven girls, have entered the Dunn County Agricultural School for the new four-year course. Several of the students are high-school graduates while one or two have attended normal school or enrolled in the agricultural school last year. The session of the agricultural school for the four-year course opened on September 8th, while that for the two-year course opens October 6th.

An exhibit of apples grown in the state orchard in Crawford county is being shown in Madison. In the display are the McIntosh, two kinds of Greenings, Wealthy, Wolf River and other varieties. Splendid specimens come from trees but five years old and these trees have been bearing for two years. At the present time they are yielding from one bushel to a barrel a tree. The state orchard is on a hillside several hundred feet high and it is expected that in time the whole region will become famed for the quantity and quality of its fruit.

Competition for milk has become very keen in Green and LaFayette counties, the cheese factories and condensories being rivals. Few of the cheese factories manufacturing foreign brands of cheese operate during the winter months and the milk produced in the winter months goes exclusively to the condensories and creameries. The winter producers are disposed to sell to the buyer who takes their product the year round unless tempted away by higher prices.

SELECTING THE HERD BOAR.

To the Editor of The Homestead:

We must give careful consideration to the selection of a boar to mate with the herd sows; the future usefulness and development of pigs of their union require this. We cannot afford to use a scrubby or a pure-bred runt of a boar under any consideration. There are about 2,000 pigs in the first ten generations, and it is essential that we start right. Sometimes under pressure of important work requiring immediate attention, one is inclined to patronize a nearby boar that is known to be a scrub.

A litter of eight good pigs from a pure-bred boar mated with a choice sow will cost no more than a litter from an undesirable mating. When grown, the better pigs will carry fifty pounds more meat apiece than scrubby ones. This makes 400 pounds of additional meat, without any additional expense. This will apply to mating all animals on the farm, and is worthy of consideration. In buying a boar to head a herd of brood sows, the right selection often means the difference between a success and a failure for a period of years. The weak and the strong points of the sows that are to be his mates should be borne in mind.

The popularity of the boar's ancestry on both the paternal and the maternal side, coupled with a good individuality of the breed he represents, and a strong, vigorous breeder, are points that should figure prominently in the selection. As to his value, consider what he is worth to you in your individual herd; don't be led astray by another breeder's opinion, for he may not know your sows. Any boar is high priced, regardless of the price paid for him, if he cannot make good on a business basis from a breeder's standpoint. High-priced boars with popular ancestry in their pedigree must compensate their owners by reproducing for them pigs superior to former generations.

When properly cared for, I think 99 per cent of all pure-bred boars (not pure-bred runts) are breeders. One must use judgment in feeding and mating them. Always have them vigorous and in good, active condition. Never allow them to run at large with the sows. Have an individual pen and yard. One service is sufficient, and two matings a day should keep a yearling in prime condition. Nature has its limits, and one must not undertake to exceed them. Learn everything possible about his habits and individuality and conform to them as far as consistent with usefulness. Treat the boar kindly and he will not be cross; in fact, he can be taught to be handled as easily as a colt and he will be more useful for the education given him.

On many farms the matrons of the herd are the most profitable. They must have good care and a variety of food to supply their wants. They should be fed liberally and never let go hungry. They are twice as valuable when producing two litters of good pigs each year as when they produce only one. This can be accomplished by giving them care and attention at the right time. Three days after weaning their litters they will mate if the feed has been increased and they are in a thriving condition. A few days of heavy feeding with grain usually tones up their ovaries and places them in a healthy condition for the reception of the seed from the male. They will have as many pigs as there are healthy eggs impregnated. From this time on to farrowing they should be fed nitrogenous food, which will nourish the unborn successfully. Subscriber.

HOGS AFTER STEERS.

To the Editor of The Homestead:

In an experiment the Michigan station found that of whole corn fed to dairy cows 26 per cent showed up in the manure in no way changed by the digestive juices of the cow's stomach. Some of the kernels were so little affected by the digestive juices as to actually sprout. In another test 12 per cent of the oats fed to another bunch of cows re-appeared in the manure. An analysis was taken and it showed that the cows took no nutriment from these grains in either case. Now, if a dairy cow on moderate rations would waste that much grain, steers that are being fed a forcing ration will probably waste more.

We always allow a few hogs to work over the manure from the steers and when these hogs are ready for market they have been maintained on the side, as a by-product of the steer industry, as it were, since at no time do they receive any other grain. For our brood sows we would not think of such a method, since they like to lie down so much and usually select the fermenting manure heaps as a bed. There is danger, too, of their being stepped on by other stock. When they lie upon the manure it heats them and when they get up they are chilled through and through. This is not the best way of promoting good health and strong litters. Besides the ration

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is not the right kind for a brood sow. Pigs are usually working around and do not lie on the manure like the brood sows do. There is such a little margin in feeding steers that at times profits would be absolutely missing if it were not for these hogs converting an otherwise waste material into a salable product.

C. J. Griffing.

MANAGEMENT OF MUCK LAND.

To the Editor of The Homestead:

The northern part of the corn belt contains thousands of acres of muck land. Some of it is in extensive marsh areas so that whole farms and even groups of farms consist of nothing but muck land, and on these areas there is a tendency to the development of highly specialized types of agriculture such as the culture of onions, peppermint and celery. This type of agriculture is doubtless well suited to the extensive marsh areas, but a considerable portion of the muck land occurs in small pond bottoms dotted here and there over the country, and on these areas the development of specialized cropping systems is not always feasible or desirable. In such cases the muck land must be made to fit into the farming system practiced on the balance of the farm or else neglected.

In the past a great many farmers have chosen to neglect the muck, but with more knowledge of how to handle it at a profit and a greater necessity to make every acre show a profit, there is now a general tendency to try to make the little patches of black land contribute to the farm income. It is generally recognized that an application of manure will make otherwise unproductive muck very fertile, but the use of the manure on the muck means rapid exhaustion of the upland soil which also needs the manure, so the plan is open to serious objections.

Muck lands invariably contain an enormous amount of nitrogen and organic matter—enough so that no more need be added for years and years—but are apt to be poorly supplied with the mineral elements of plant food, particularly potash. Manure gives good results simply because of its potash content, and the other valuable constitutents are virtually wasted on muck. Therefore, it is more economical, from every angle, to use the manure on the upland soil where it will be most fully used by the crop, than it is to use it on muck where only potash will be of value.

The use of commercial potash on muck not only renders it as productive as manure would at materially less cost, but can be made to help enrich the upland at the same time. That is, the corn and forage crops grown on the muck land by the use of potash can be fed out and the manure used on the upland and more potash purchased for the muck. In that way part of the nitrogen of the muck is transferred to the other land, which needs it, and all of the organic matter can be used where it will do the most good. This plan has two cardinal virtues to recommend it—economy and efficiency. The potash equivalent of a ton of manure costs but forty to fifty cents, and the adoption of the plan means a low fertilizer cost for the black land and an abundance of manure for the upland.

Fortunate indeed is the cattle feeder who has a good field of muck on his farm. He can grow corn on it year after year almost indefinitely simply by using a little potash, and then keep the rest of his farm as rich as cream with the manure produced from the crop grown on the muck.

Subscriber.

SAVING PUMPKIN SEEDS.

Only a little time is required to save and cure enough pumpkin seed to plant a large field. Save seed from only the best and ripest specimens. First, in order to loosen the seeds inside, throw the selected specimens onto the ground a few times, but not with sufficient force to break them open. Then collect the seeds and wash them in water. They will cure out quicker if washed. They may then be spread on a board to dry or, better yet, on cheesecloth or a screen which being placed off the ground will permit the water and juice to drain away. This will also permit them to dry from the under side as well as the upper, and when they are placed in the sun and wind they will dry very rapidly.

If the nights are cold and frosty either take them inside or cover with a blanket. Freezing will injure their germinating qualities. Also protect the seeds from rains during the day. If the weather is very unseasonable, cure them entirely indoors. After the seeds have pretty thoroughly dried out place them in cheesecloth sacks and hang near a stove for a few weeks for further drying and there will not be any loss from mold later when they are stored in mouse-proof cans or jars. Pumpkin seeds must be kept out of the way of rats and mice at all times. Mice particularly seem to have a keen appetite for the seeds and they will destroy them as fast as one can collect them if the seeds are left within their reach.

HANDLING POTATOES FOR STORAGE

To the Editor of The Homestead:

Potatoes for storage should be handled with the greatest care from the time they are harvested till they are safe in the cellar bin or storage pit.

This careful handling should begin when the potatoes are being picked up, care being taken that they are not dropped nor thrown into pails or baskets.

In pouring potatoes from one vessel to another, never let them fall, but rather roll out gently, steadying the first few that come out with the hands till several are in the vessel, forming a sort of pad for the others to strike.

It is not the damage done at the time of bruising or peeling potatoes that makes it imperative for them to be handled with such care, but any bruises, cuts or peeled spots will prove a starting point for rot after storage, which, causing further contamination, may ruin a whole pit of potatoes.

Always have a generous padding of hay in the wagon in which potatoes are poured when harvested and hauled from the field, and keep them covered while the harvesting is in process, as the sun quickly damages surface products by "sunburn;" rendering them unfit for use. This is especially true if the potatoes are somewhat damp when dug, so that it is important for the ground not to be wet when potatoes are dug.

Potatoes must be thoroughly cured before being stored away in the cellar or outdoor pit, as dampness is one of the prime foes to successful storage. To accomplish this, we spread the potatoes out in some building where there is a free passage of air and the sun cannot strike them nor the rain reach them. Here they are scattered out as much as possible, a frequent stirring being given them for the first few days.

We keep potatoes out of storage just as long as we possibly can without their freezing. This not only insures thorough curing, but guards against the products being put away while they are warm, which would cause heat, subsequent mold, and rot. When ready to be stored, the products are carefully sorted again, all peeled, bruised, or otherwise damaged ones being rejected. They are then carried to the pit and as carefully emptied as before.

Our pit is three feet wide, eighteen to twenty-four inches deep (any length desired). Or, it may be circular in shape, four feet in diameter. It should be located on a north-side slope, where drainage is good, and where the sun will not warm up the pit in winter nor till late in the spring. We line the pit with fine weeds, grass or leaves, thus saving the hay or straw usually put in it. The lining should be thin—only sufficient to keep the products from being soiled by the dirt.

Any of the above products will serve for the first covering of the potatoes, a six-inch layer of dirt then being tossed onto it to hold it down and keep out moisture. This is covered well with old boards, roofing, oil-cloth, etc., in case of heavy rains. After this layer has been left stand till it freezes lightly, so the coldness will be near the potatoes, it is covered with a foot or more of hay, straw, manure, refuse corn-stalks, litter, etc., and another six-inch layer of dirt thrown on it. This all tends not only to prevent the cold from reaching the potatoes from the outside, but the coldness in the first layer of dirt will be retained and kept near the stored products, preserving them and yet preventing their becoming warm enough to spoil or sprout.

M. C.

The illustration shown herewith is that of Jumbo The Great, the famous Poland China boar at the head of the herd owned by Orville O. Jones, York, Neb. See field note on page 34.

John L. Griffiths, United States consul general at London, has prepared a statement showing the world's wheat crop for 1912 with comparisons. The tables are given in "quarters," a quarter being eight bushels of sixty pounds. The statement shows the 1913 wheat crop in the United States to be 752,000,000 bushels, and the world's 1913 total to be 3,376,000,000 bushels as compared with 3,150,000,000 bushels last year, or an increase of 226,000,000 bushels over last year. Canada is credited this year with less than one-third of the wheat output of the United States, which raises more than 20 per cent of the world's wheat.

The ideal way to store fodder is to shred, then it is more easily stored in less space and is much more handy for feeding. Fodder should be very dry when stored, otherwise, if large amounts are packed in one room it will sweat and mold.

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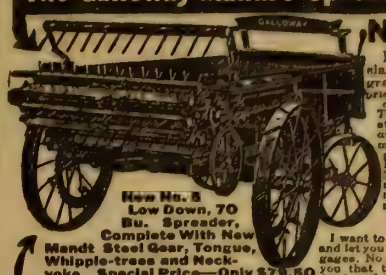

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DAIRY

STARTING THE FALL CALF.

To the Editor of The Homestead:

The best time to take the calf from the cow is about the fifth day, or as soon as the milk is fit for use. Nature intends for him to have this first milk and without it he is not apt to do well.

Do not attempt to feed him until he gets good and hungry. Sometimes it is well to let him miss a meal altogether so that he will better appreciate his first dish dinner. Take some fresh, warm milk direct from the cow, and wetting a finger in it insert the same within the calf's mouth, while with the palm of the hand push his nose down into the milk. Once he gets a smell and a taste of the satisfying draught he is quick to take a hold. When you are sure he is getting the milk, slip out your finger. If he stops drinking let him have it again. Have patience and be easy and the lesson will soon be over with little need of repetition. Getting cross and abusing the calf is always poor policy.

Give about two quarts and a half of warm, new milk to begin with, increasing to three after a few days. When two weeks old you can begin substituting skim milk from the separator, no more than a pint at first, but gradually increasing the amount of skim milk and decreasing the new until at four weeks of age he is subsisting altogether on skim milk.

Always be sure it is at just the right temperature (that at which it is taken from the cow) and see that all foam is removed. These are two very important items, oft neglected, to the detriment of the growth of the calf. The foam which gathers on separator milk is apt to produce bloating which not infrequently causes death, while too much milk or feeding at too low or high a temperature results in indigestion and scours. Sour milk has something of the same effect and had better be fed to the hogs. If a calf is lucky enough to survive such feeding he is generally a poor specimen, pot bellied and stunted. A little oil meal, no more than a half cupful to begin with, may be added to the separator milk. This amount can be increased half a pint, later. If some corn and oat chop is kept in a trough where he can have free access to it he will not be long in finding out what it is good for. Some bright, green hay or cured alfalfa will also prove attractive and you will be surprised how soon he will be nibbling at it. Provide salt and clean drinking water and watch your calf grow.

The fall calf has a much better chance for quick, healthy growth than the summer calf, as he escapes the ravages of flies and the sweltering heat.

A Subscriber.

Kansas.

TWO RECORDS—A CONTRAST.

To the Editor of The Homestead:

Certain eastern breeders of dairy cattle are inclined to ridicule Wisconsin and other central western states because they do not force their cows to the same phenomenal records. A careful examination of the records of one of the most widely exploited breeds has revealed some significant facts in defense of the western practice, however. Of the eleven A. R. daughters of a famous sire who made their records as two year olds, most have failed to repeat. The dams of these cows produced about 400 pounds of butter fat, while the daughters were forced to seven and eight hundred. A lot of dead calves is all that remains of the third generation.

Contrast another noted family of the same breed. The first cow produced four good instead of one star record. She has four daughters, each admitted to the A. R., and some with two or three records. A fifth daughter is now qualifying. Dead calves have been the exception rather than the rule.

The lesson—an obvious one—is being heeded by sane breeders. It is no longer the one cow producing a thousand pounds of butter fat or more, but generations of cows producing 500 and 600 that is being striven for. Instead of forcing her under hot-house conditions to abnormal and ruinous production, they give her every opportunity to do her best and yet continue her usefulness from year to year.

In fact, it is a pretty safe guess that those who breed for quality, such as color in milk and animal, hardiness, breeding power, and stamina will produce the cow that will be most in demand. A few millionaires may continue to gain notoriety by forcing an exceptional cow to give one extraordinary record, but this will do the breed little good other than some indirect advertising, and may do much harm by diverting the unwary breeders towards false gods.

W. A. Freehoff.

HEIFER CALVES.

To the Editor of The Homestead:

With the present high prices and scarcity of good dairy cows, it will pay every dairyman to keep all his heifer calves for future producers. If you purchase what someone else has raised you are in the dark, as to their milking and breeding qualities, while if you grow your own stock, you have a pretty good idea as to their good or bad qualities.

Of course, the good heifer calf must come from a good producing cow, and a sire of merit from a well producing dam. Before the calf is born, the cow must be fed on something that will nourish the cow and unborn calf. This feed must contain both protein and mineral matter, and enough must be furnished to supply both the cow and calf. Feeding the cow, means feeding the calf also.

Allow the calf to remain with the mother, the first two or three days after it is born, so that it may take the warm milk direct from the udder. Nothing will take the place of the natural methods of suckling for the first few days of the calf's life, as the milk from a fresh cow contains special ingredients for starting the stomach and bowels of the young calf in good working order. Many seem to think that the calf should be removed from the cow before it has taken nourishment in the natural way, when it is intended to be raised by hand. Such a notion is erroneous. The calf can be taught to drink from a pail, after it has remained with its mother for two or three days, and will hardly know that it ever knew its mother. The young heifer calf should be given all the chances possible. It should be provided with a clean, warm, and well-ventilated stall. For the first two weeks it should be fed at least three times daily, and should receive only its dam's milk. For the average calf, about two quarts at a feed will be the proper amount, but this amount must be increased as the calf grows older. When the calf is three to four weeks the whole milk may be partly replaced by skim milk and the feeding reduced to twice per day. It will begin to nibble at hay and other solid foods, after it is five to six weeks of age. It should be fed corn, oats, and clover hay, every day, after it learns to eat.

Subscriber.

GALLOWAY ON THE BEEF SUPPLY.

The problem of how to secure an adequate supply of beef cattle in this country has always seemed comparatively simple to me," said Beverly T. Galloway, assistant secretary of agriculture and a former Missourian, who is acting head of the department in the absence of Secretary Houston.

"If the farmers of the country are assured of a fair profit they will raise sufficient beef cattle to supply the demand in this country and export large quantities. The day of the great ranges is past. The American consumer must look to the farmer for his beef supply. The farmer is not in the habit of engaging in the raising of any crop as a philanthropy. The reason there has been a falling off in the supply of cattle and other food animals is simply that the farmer cannot afford to raise them at a loss. Where a man can raise large numbers of beef cattle he can make a good profit, but the average farmer can not raise cattle in large numbers. If he raises only a few under existing conditions he is almost certain to lose money.

"One way to remedy this condition is to establish municipal abattoirs and see that they are properly and efficiently operated. There are two such abattoirs in Texas, and they are successful. In the South of Europe the municipal abattoir is an established institution. This is true also of Germany. When there is a municipal abattoir within reach the average farmer is always assured of a fair price for his beef cattle and other food animals. He can drive them to the abattoir at any time and have them slaughtered, dressed and sold for him.

"At present if a farmer drives a few head of cattle to town he probably will be sent from one dealer to another, all offering the same price for them on the hoof, and that not a fair one. Either he will sell his cattle at their price or drive them back home at a further loss. Assured of a steady market and a fair profit, the average farmer would raise beef cattle or any other product in sufficient quantities to supply the demand of the consumer.

"It is safe to say that 90 per cent of the farmers of this country today are making only a living and paying their taxes. The farmer is entitled to more than this. He is entitled to enough to live in comfort and to educate his children and have a little leisure time in

One Sharples Milker Does the Work of Three Men

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Think of the importance—the great advantage—the economic value—and what it would mean to you in the saving of time, trouble, labor and money if you installed a Sharples Milker in your dairy—today.

It would mean that with the Milker one man could do the work of three. It would eliminate the tedious, disagreeable, slow hand milking—known as dairying drudgery. It would mean a better and more contented class of employees. It would mean that you would be able to accomplish the conditions that would *save time, trouble, labor and money.*

Still more—you would be assured a purer and more marketable product, low in bacterial count, as all stable air is entirely excluded and all milking parts are easily and quickly cleaned.

Cows take to the Sharples Milker and stand quietly and more contentedly than when milked by hand, for it always milks a cow in exactly the same way every time. It is regular and gentle. It fosters milk production by keeping the cows in better condition. The Sharples has the "teat cup with the upward squeeze."

The fact that more than fifty thousand cows are being successfully milked today by the Sharples Milker, should alone convince you that it would be to your interest to investigate.

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You can't make an old stable with dirt floors and wood partitions sanitary. Wood partitions gather dust and disease germs. Dirt floors with their tramped-in filth should never come within a stone's throw of your milk pail. When a cow gets off her feed and her milk yield falls below normal, look to your stable. It may be as clean as you can make it; but that may not be clean enough. ***Equip your stables***

The Louden Way

then profits will not fall off. The best treated cow gives the most milk—the best milk—the richest milk. She appreciates light and air, and you get your money back for making her home modern.

Put a **LOUDEN LITTER CARRIER** to work behind her. Your boys or your man will clean the barns in less time with less labor. We have been fitting up barns for fifty years. We will be glad to suggest what you need **without any expense to you.** Send for catalog; tell number of cows you have and submit rough sketch of stable.

LOUDEN MACHINERY COMPANY, 194 Broadway, Fairfield, Iowa

stead of slaving from early morning until late at night, day in and day out.

"Boys and girls leave the farm because they can get a larger return for their work in cities and towns. They will continue to leave the farm as long as this condition continues. When they find that the returns for their labor on the farm are relatively equal to the returns in the cities they will choose to remain on the farm.

"Men and women, boys and girls in cities and towns change their employment when better opportunities offer. Boys and girls and men and women in the country are entitled to do the same and that is why so many of them leave the farm and go to town.

"The intelligent farmer of today simply must 'see something coming in' if he is to devote his time to raising any given crop. For example, if he could be assured of receiving, say $1 per bushel for wheat at all times, he would raise all the wheat the population of the country would require for hundreds of years to come, and export a lot to feed people of other countries. The same rule applies to all staple crops, including beef cattle and food animals in general."

Dr. Galloway is not at all alarmed over the numerous reports that beefsteak will go to 50 cents a pound during the coming winter. Knowing that there has been a gradual falling off in the number of beef cattle raised and a steady increase in population, he is confident prices will remain high, but thinks the reports of 50 cent beef are ridiculous.

"We have recently freed 10,000 square miles in the South from the fever tick," said Dr. Galloway. "This section presents ideal conditions for raising beef cattle. Farmers in the South are beginning to wake up to the great possibilities of the live stock industry, and are organizing live stock associations to further the industry and protect each other. By this means they should be able to make a decided success of cattle raising. A business organization intelligently directed will go far toward solving the problem of a steady market and reasonable profit."

TO IMPROVE THE FRUIT MARKET.

To the Editor of The Homestead:

Preliminary steps are being taken by the fruit growers of Iowa, Kansas, Nebraska, Oklahoma, Missouri and Arkansas for bettering the fruit market and the quality of the fruit grown in the Mississippi and Missouri Valleys, the plan being to bring about co-operation between growers and buyers. A meeting was held in Kansas City during the early part of September, attended by representative fruit growers and a committee was appointed to form a permanent organization of the fruit growers of the six states mentioned. The fruit growers of each county will be organized by central boards in each state composed of members of the State Horticultural Board. The Missouri State Board of Horticulture, which represents 50,000 fruit growers, has endorsed the plan. A general convention of fruit growers will be held at Kansas City during the latter part of next January.

At this meeting the importance of spraying fruit trees during the growing season will receive a good deal of attention. All commission men and wholesale fruit dealers much prefer to handle only fruit from orchards which have been sprayed during the growing season, and it is predicted that in time commission men will refuse to handle cheap, wormy apples and other fruit from orchards which have not been properly sprayed. In this connection a significant statement was recently made by John Bland, secretary of the Missouri State Board of Horticulture, in speaking of the apple crop of the state this year, which he says will be 40 per cent less than last year. He said the small yield was due to the fact that fruit growers failed to spray their trees, rather than to the drouth.

This is the case during every drouthy summer, and it is natural that it should be so, since fruit trees stand the drouth better than annual crops, and remain green all the summer. When the corn and other growing crops are shriveling up and dying the green fruit trees naturally suffer more from the depredations of insect pests unless the trees are sprayed at proper intervals. It is therefore more necessary, if possible, to spray during an unusually dry spring and early summer than at any other time, not only because the insects give more attention to the fruit trees than during seasonable years when annual crops are green and luxuriant, but also because all fruit is higher in price during and after a drouthy summer, and it is therefore important that the quality be good, so as to secure top prices, and enable farmers to make up for the loss they have sustained by reason of the poor yield of annual crops.

Another feature of fruit marketing which could be greatly improved would be the working up of extra ripe fruit—peaches, plums, pears, etc., so as to get as good prices for fruit in this condition as when it is not quite so ripe. There is no reason why luscious freestone Elberta peaches should sell at a reduced price just when they are in the best condition for eating. They are always started from the orchards when a little hard, so that the commission firms in the city can get rid of them before they become overripe and as matters stand now they are generally sold at a sacrifice when they are in the best condition for immediate eating.

There should be a great co-operative canning and preserving plant in every large fruit market, such as St. Louis, Kansas City, Little Rock, St. Joseph, Omaha, Des Moines and Chicago, where the surplus fruit might be canned or preserved whenever the market became overstocked on certain days, and the fruit was in danger of spoiling on the dealers' hands. These canning plants should be joint stock concerns owned by the wholesale fruit men and representative growers who wished to take stock, and therefore every one would be interested in their success. Then a wholesale dealer with a heavy stock of fruit on hand which he could not dispose of quickly in the ordinary process of trade could send it to the canning factory to be worked up into delicious preserves of different kinds.

For ordinary canning, peaches and other fruit should not be too ripe, but for making jams, fruit butters and other conserves thoroughly ripe fruit is better than if unripe.. Millions of pounds of ripe fruit could be worked up in this way at an immense preserving plant, and at a fair price to the shipper. The grower should have a reasonable price for his fruit, no matter whether it is sold fresh to consumers or worked up into preserves or some other kind of finished product. It is not the fault of the grower if his fruit becomes overipe in the hands of the wholesaler, and he should have a fair profit on it just the same.

I. M. Motes.

Prompt removal of and destruction of all diseased portions of trees is the only remedy to stop infection and prevent the formation of cankers in the limbs when fireblight attacks the orchard, according to George F. Potter, horticultural expert of the University College of Agriculture. Fireblight has gained a firm hold in Wisconsin and takes its name from the peculiar scorched appearance that it causes in the twigs through the wound or prick in the soft growing tip.

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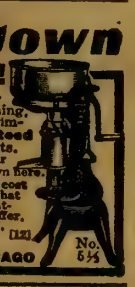

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SECOND ANNUAL PUBLIC SALE
140 HOLSTEINS
STERLING, ILL., OCTOBER 21-22, 1913
100 COWS 30 HEIFERS 10 BULLS

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PRINCE HENGERVELD SEGIS
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KING CORNUCOPIA HENGERVELD SEGIS
whose four nearest dams have records that average over 32 lbs. butter and 584 lbs. of milk for seven days, and the average record of his 17 nearest dams is over 26 lbs. butter and over 500 lbs. milk for seven days.

10 GREAT YOUNG BULLS, two of them state fair winners, and the rest of them out of high-record dams and by great sires. The cows are the kind that have made

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Pure-bred Registered
HOLSTEIN CATTLE

The Capital, Topeka, Kansas, June 16, said: "When Maid Henry, the famous 13-year-old Holstein owned by the Kansas Agricultural College, was working so hard for the record of 19,600 pounds of milk and 835 pounds of butter in a year's time, dairymen prophesied that the Maid would be ruined. But Maid Henry returns to show that she is some cow even after breaking a record. She has a 114 pound male calf, born just the other day to prove it."

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WRITE RUSSELL
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Buy Jerseys

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I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

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THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

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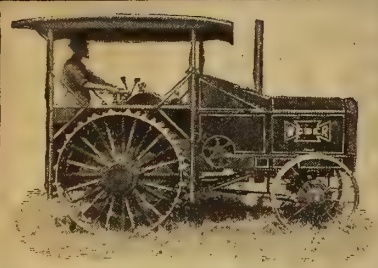

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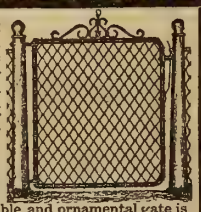

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The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

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St. Joe's Interstate Revived

Despite a Late Start, the New Management of the Interstate Fair and Live Stock Show Made a Very Creditable Showing

THE effort to put new life into the Interstate Fair and Live-stock show at St. Joseph this year, by bringing it out under a brand new management backed by the stockyards, met with fair success. At least the majority of the visitors who attended that exposition between the dates of September 22d and 27th, agreed that St. Joe had made a good beginning and that with the nucleus which they have they are in a fair way to build up the big show of which they dream. All this will, of course, take time, but backed by the packing interests and the substantial business men of St. Joseph, as is this association, it seems quite probable that their expectations will in time be realized. The attendance was at no time large, but it was representative of the Interstate territory over which St. Joseph holds sway, and was upon the big days augmented by crowds from the city itself, who were anxious to see a real cow and pig and by their presence lend support to the efforts of their fellow townsmen. The weather, too, was interstate in nature. The week opened with Kansas sunshine, which later gave way to Missouri clouds, followed by Iowa rain. Finally, however, Nebraska breezes, at times almost too cool to be comfortable, won out, and the last two days were almost ideal except for the rather muddy footing.

Any live stock exposition lives or dies according to the interest manifested in it by stockmen. The substantial cash premiums offered at St. Joe brought out some of the finest herds in the country. Most of the exhibitors were well pleased with the show and doubtless will return another year, if the inducements are sufficient. Nearly every one who strayed through the building in which were housed the agricultural exhibits was surprised at the size of the ears of corn and with the bigness of the apples. So far as the exhibits there shown indicated, there had been no dry weather in "interstate territory." Ears of Reid's yellow dent, of this year's growth, as long as are to be seen any year, were on exhibition in the fine display of grains, grasses and fruits made by Buchanan county, Missouri. The apples were equally striking. Andrew county, Mo., was represented by a small but high-class display. In this same building was a fine fertilizer exhibit made by one of the local packing companies. The exhibit of grains and grasses grown this year in upper Wisconsin, and shown by the Wisconsin Immigration Commission, received much favorable attention, which was well deserved.

Poultry fanciers from the city, as well as those who make chickens a side line to farming, were well satisfied with the small but "classy" collection of fowls which was housed on the second floor of one of the buildings and so was missed by many. E. L. McDonald was superintendent of the poultry. All of the substantial breeds and several of the fancy kinds were represented.

For some strange reason the machinery men were not much in evidence. Only seven firms were on hand. Two silos, a patent gate, a hay press, some feed grinders and two tents containing farm implements comprised the machinery section. There were a number of automobile displays. It is greatly to be regretted that there were so few exhibits of machinery. St. Joe, located as it is in the very heart of one of the finest farming sections in the entire world, naturally draws a crowd that would appreciate to the fullest extent, a good display of implements, engines and machinery. On the other hand, it would hardly justify the great expense attached to moving and setting up one of the big exhibits unless the fair were so well advertised that a large attendance would be assured. It takes time for people as well as exhibitors to form the fair-going habit and until a young fair matures it will have to be patient and put up with what it gets. There is plenty of room for growth in the machinery section at the Interstate.

The races were good and well attended despite the fact that rain made the track too heavy on two of the five days of the fair. Electric lights were strung around the track and a few night races were run, which, together with several entrants of fancy light horses and the big six-horse team of Swift & Co., comprised the program for the night shows. Auto polo, a game in imitation of regular polo, or "horse-back shinney," was one of the features of the amusements, which, owing to its novelty, attracted more than usual attention.

The one feature of this fair which deserves more universal imitation was the old fiddlers' contest. Prizes were offered for the best fiddlers on the grounds and from far and near came old-time masters of the violin—no the fiddle—there were no violins or musical professors on the grounds—just plain fiddlers. From up the river, down the river, across in the Kansas hills and from the forks of the creeks they came, each more or less the worse for the wear of time, but each with that peculiar and whimsical smile and carelessness of dress peculiar to the men who have made the music for two generations of dancers. Each under his arm carried his precious fiddle. Many needed haircuts, some evidently had but one coat and that the one, none too good, either, which was upon their backs, but each one's musical instrument was shining and in perfect condition, bespeaking the good care which it had received. Among the more than twenty-five contestants was an old negro, Uncle Ben Harrington. Uncle Ben strongly reminded one of "Uncle Ned," whose virtues are extolled in the shovel and the hoe song. At least, he played for the delighted crowds upon a fiddle of his own manufacture. The tunes with which the competitors strove to outdo each other were reminders of other days when most everybody danced square dances and tangos and trots were unheard of. When tunes such as "Money Musk," "Leather Breeches," "Sally Good," "Billy in the Low Ground," and "Arkansas Traveler" were sawed out accompanied by much stamping of feet and nodding of heads the onlookers were almost as happy as the fiddlers.

Save for one or two nasty spots the sideshows seemed to be of an especially good class. It was a great mistake, however, to place them at the entrance of the grounds in such a manner that the visitor was immediately forced to pass through the shrieking, howling spielers, whether he cared to see them or not. This arrangement was, of course, partly due to the shape and size of the grounds, but could have been avoided to some extent. The proper handling of the amusement features is one of which fair secretaries still have much to learn, though most of them seem to be making progress.

The interest which the city of St. Joe took in the fair was manifested by the displays of art and fancywork. Few state fairs have had so many oil paintings on exhibition nor as good. The needlework display was so large as to require one floor of a good-sized building to house it, as did the paintings. All things considered and with due allowance for the newness of the Interstate and the inexperience of some of the men in charge of various departments, it was a good fair. To say that it was in every way all that could be hoped for in the way of an exposition in keeping with the community which this show is supposed to represent, would be the grossest kind of misrepresentation. With all fairness, however, it must be said that at St. Joe this year was presented a fair big enough to be out of the county-fair class and well on the way towards something better. With time for growth and adequate backing and management it will become a big one. No doubt it will continue to receive the proper backing and the management. Time will do its part.

THE CATTLE SHOW.

By far the best live stock showing made at the Interstate Fair was in the beef cattle classes. All told there were 220 head exhibited, but these were the pick of the show cattle from half a dozen states. Herds from both the northern and southern circuits headed for Sedalia and the Royal, here met for the first time. It is very doubtful if a single state fair of the season has seen as high a percentage of quality cattle. Each herd was trimmed down by its owner to only those animals which had already justified their transportation by previous winnings, and so the cattle show was really and truly a good one. J. O. Bryant, of Savannah, was the superintendent. All the divisions in the Short-horn, Hereford and Aberdeen Angus classes were filled with entries. There were only two herds shown for Galloway honors and the same number in the Polled Durham class.

SHORT-HORNS.

So far as the Short-horns were concerned it was most assuredly an Interstate show. Seven different states were represented by the eight herds that were entered. This breed was not only up to their usual high standard of quality, but outnumbered all other breeds with sixty-six entries. Rees, Kane and the Farmer Farm dominated the Short-horn show, dividing most of the good monies between them.

There was some misunderstanding over a special class which was entered in the catalog as a Missouri Short-horn Special. Most of the breeders were under the impression that this was to have been an Interstate special limited to entries from Missouri, Kansas, Nebraska and Iowa as it should have been. As there was only one Missouri herd on the ground and that herd was not large enough to win all the money in this class, part of the premiums went a-begging. The Short-horn placings were decided by John Tomson, of Dover, Kan.

Exhibitors: E. M. Hall, Carthage, Mo.; the Farmer Farm, St. Paul, Minn.; Wm. Herklemann, Elwood, Iowa; Owen Kane, Wisner, Neb.; H. Rees & Sons, Pilger, Neb.; W. W. Brown, Amenia, N. D. Achenbach Bros., Washington, Kan.; Leeman Stock Farm, Hoopeston, Ill. The awards:

Bull 3 Years and Over—1st Rees on Whitehall Rosedale; 2d Leeman on Lochlin Dale; 3d the Farmer Farm on Day Breaker.

Bull 2 Years and Under 3 (2 shown)—1st Hall on Princely Sultan; 2d Brown on Village Sultan; 3d Herklemann on True Cumberland 3d.

Senior Yearling Bull (1 shown)—the Farmer Farm on Cornerstone.

Junior Yearling Bull (1 shown)—Kane on Radium.

Senior Bull Calf—1st Kane on Royal Dale; 2d Rees on Sultan Goods; 3d Hall on Village Flash; 4th Brown on Lochinvar; 5th Rees on Silver Goods 2d.

Junior Bull Calf—1st Kane on Dale Clarion; 2d Rees on Radium Goods; 3d the Farmer Farm on Lancaster Duke; 4th Hall on Hallwood Count 2d; 5th Herklemann on Sultan Goods.

Cow 3 Years and Over—1st Brown on Mabel Marshall; 2d Rees on Lady Cumberland; 3d Brown on Irene Avalon; 4th Achenbach on Lady Myrtle.

Cow or Heifer 2 Years and Under 3—1st the farmer Farm on Pleasant Mildred; 2d Rees on June Goods; 3d Brown on Christobel; 4th Herklemann on Mildred of Oakland.

Senior Yearling Heifer—1st and 2d the Farmer Farm on Sittyton Anna and Maria; 3d and 4th Hall on Choice Princess and Hallwood Golddrop.

Junior Yearling Heifer—1st the Farmer Farm on Lancaster Duchess 7th; 2d and 3d Kane on Isabella and Betty Dale; 4th Rees on Fancy Goods.

Senior Heifer Calf—1st Kane on Sweet Afton 3d; 2d Rees on Blooming Violet; 3d the Farmer Farm on Village Blythesome; 4th Hall on Hallwood Dot 3d; 5th Herklemann on Missie 4th.

Junior Heifer Calf—1st Kane on Wellington Goldie 2d; 2d Brown on Laurel; 3d Rees on Roberta's Lady; 4th and 5th Herklemann on Good Princess and Missie's Queen.

Senior and Grand Champion Bull—Rees on Whitehall Rosedale.

Junior Champion Bull—Kane on Radium.

Senior Champion Cow—the Farmer Farm on Pleasant Mildred.

Junior and Grand Champion Cow—the Farmer Farm on Lancaster Duchess 7th.

Aged Herd—1st Rees; 2d the Farmer Farm; 3d Hall.

Young Herd—1st Kane; 2d Rees; 3d the Farmer Farm.

Calf Herd—1st Kane; 2d Rees; 3d Brown.

HEREFORDS.

While there were only three herds of "white faces" present, previous winnings this season had already demonstrated their superiority. Harris, of course, carried off all the purples—which seems to be a Harris habit—but he was crowded out of a number of firsts by Tow's splendid animals. Klaus Bros. held up their corner in good shape. William Hutcheon, of Bolckow, Mo., had little trouble with the placing which was in most cases very satisfactory. All the entries in this class were in the splendid condition which they have maintained throughout the season.

Exhibitors: Cyrus A. Tow, Norway, Iowa; O. Harris & Sons, Harris, Mo.; Klaus Bros., Bendena, Kan. The awards:

Bull 3 Years and Over—1st Harris on

Prince Perfection; 2d Klaus on Beau Onward; 3d Tow on Baron Fairfax.

Senior Yearling Bull—1st and 2d Harris on Repeater 7th and Gay Lad 9th.

Junior Yearling Bull—1st Tow on Fairfax Prince; 2d Harris on Gay Lad 12th; 3d Tow on Standard 6th; 4th Klaus on Beau Onward 15th.

Senior Bull Calf—1st Tow on Distinction 2d; 2d Harris on Repeater 18th; 3d Tow on Standard 11th; 4th Harris on Gay Lad 15th.

Junior Bull Calf—1st and 2d Tow on Disturber Jr., and Distinction 4th; 3d Harris on Gay Lad 23d.

Cow 3 Years and Over—1st Harris on Disturber's Lassie 4th; 2d Tow on Miss Brae 29th; 3d Klaus on Miss Filler 24th.

Cow or Heifer 2 Years and Under 3—1st Harris on Harris' Princess 215th; 2d Tow on Defender's Lassie 4th; 3d Harris on Princess Repeater 3d; 4th Klaus on Miss Filler 37th.

Senior Yearling Heifer—1st Tow on Disturber's Lassie 6th; 2d Harris on Miss Gay Lad 7th; 3d Klaus on Miss Onward 5th.

Junior Yearling Heifer—1st Harris on Miss Repeater 11th; 2d and 3d Tow on Disturber's Lassie 8th and Disturber's Lassie 7th; 4th Klaus on Miss Onward 9th.

Senior Heifer Calf—1st Harris on Miss Gay Lad 15th; 2d and 3d Tow on Lady Standard and Disturber's Lassie 9th; 4th Harris on Miss Gay Lad 16th.

Junior Heifer Calf—1st Harris on Miss Perfection 6th; 2d Klaus on Miss Wilton 33d.

Senior Champion Bull—Harris on Prince Perfection.

Junior and Grand Champion Bull—Harris on Repeater 7th.

Senior and Grand Champion Cow—Harris on Disturber's Lassie 4th.

Junior and Grand Champion Cow—Harris on Miss Gay Lad 11th.

Aged Herd—1st Harris; 2d Tow; 3d Klaus.

Young Herd—1st Harris; 2d Tow; 3d Klaus.

Calf Herd—1st Tow; 2d Harris; 3d Klaus.

Get of Sire—1st Harris; 2d Tow; 3d Klaus.

Produce of Cow—1st and 2d Harris; 3d Klaus.

ABERDEEN ANGUS.

Two Iowa and two Missouri herds opposed each other for Angus honors. There were about fifty head all told and all were shown in the pink of condition. McHenry carried off champion bull honors with Irwin C., just as he has done so many times before. Caldwell secured the purple for the junior bull. The champion females were all shown by Catterson. Decisions were made by James McClung, of Indianola, Neb. Exhibitors: R. M. Anderson, Newell, Iowa; Omer Catterson & Son, Maryville, Mo.; W. A. McHenry, Denison, Iowa; C. D. and E. F. Caldwell, Burlington Jct., Mo. The awards:

Bull 3 Years and Over—1st McHenry on Erwin C.; 2d Catterson on Quality Lad.

Bull 2 Years and Under 3—1st Catterson on Queen's Ito Lad; 2d Caldwell on Kiahagea; 3d Anderson on Enus 3d.

Senior Yearling Bull—1st Caldwell on Ebony of A. 3d; 2d Anderson on Provo 2d; 3d Catterson on Edward Ito; 4th McHenry on Quality Prince 2d.

Junior Yearling Bull—1st Catterson on Blackbird of Beverly; 2d Caldwell well on Kiahogea; 3d Anderson on Enus 4th.

Senior Bull Calf—1st Caldwell on Black Star 2d; 2d Anderson on Prince of Elchie's; 3d and 4th Caldwell on Ebony of A. 5th and Pisgah.

Junior Bull Calf—1st Anderson on Lord Melamere; 2d Catterson on Even Ito.

Cow 3 Years and Over—1st McHenry on Black Cap McHenry 88th; 2d Anderson on Pride of Blackstone; 3d and 4th Caldwell on Pride Petite 3d and Queen Mother Johnson 5th.

Cow or Heifer 2 Years and Under 3—1st Catterson on Erica Dean; 2d and 3d McHenry on Coquette McHenry 37th and Pride of McHenry 100th; 4th Caldwell on Blackbird Chloe 2d.

Senior Yearling Heifer—1st Catterson on Maplehurst Pride 18th; 2d Caldwell on Erito C.; 3d McHenry on Pride McHenry 109th; 4th McHenry on Pride McHenry 108th.

Junior Yearling Heifer—1st Catterson on Maplehurst Queen 25th; 2d and 3d Anderson on Jilt 67th and Pride 2d; 4th Caldwell on Dutchess Ronald Lady 6th.

Senior Heifer Calf—1st Anderson on Eulima 28th; 2d Caldwell on Eritus; 3d Catterson on Blackbird's Pride.

Junior Heifer Calf—1st Anderson on Jilt 70th; 2d Catterson on Maplehurst Pride 25th; 3d Caldwell on Pride Cap Lady.

Senior and Grand Champion Bull—McHenry on Erwin C.

Junior Champion Bull—Caldwell on Ebony of A. 3d.

Senior Champion Cow—Catterson on Erica Dean.

Junior and Grand Champion Cow—Catterson on Maplehurst Pride 18th.

Aged Herd—1st McHenry; 2d Anderson; 3d Catterson.

GALLOWAYS.

Kansas alone was represented by Galloway herds. Delays in judging the other breeds and a wreck which held up the Croft herd made it necessary to postpone the placing until the latter part of the week. All things considered honors were pretty evenly distributed between the Capital View herd of Silver Lake, Kan., and S. M. Croft & Sons, Bluff City, Kan. The total number entered in both herds was about twenty-five. Mr. McClung also decided the awards in this class.

POLLED DURHAMS.

The hornless Short-horns were well represented. Achenbach Bros., Washington, Kan., made an especially fine showing and carried off a good share of the money. The Leeman Stock Farm, Hoopeston, Ill., was the only other herd with entries. As there were but ten animals in each herd not all of the divisions were filled and so the class was incomplete. Mr. Tomson presided as judge.

DAIRY CATTLE.

There were sixty head of dairy cattle entered by five exhibitors. The entries varied from some of the finest milk and butter-producing and breeding animals in the country to the family milk cow which had been brought up out of the back pasture and dedicated to the occasion. W. L. Hunter, Lincoln, Neb., was judge. Iowana Farms, Davenport, Iowa, showed twenty head of extra fine Holsteins which were the only representatives of the black and white milk breed, and so won all the places. This herd was in condition to meet stiff competition.

Fourteen head of Jerseys were entered by J. B. Smith, Platte City, Mo. Robert I. Young, St. Joseph, Mo., entered twenty-two head, but was beaten by Smith in most of the firsts and all of the championships. Mr. Roderick, St. Joseph, Mo., and Mrs. I. B. Smith, Wathena, Kan., each had two entries.

One herd of Brown Swiss, exhibited by Dohlan & Schmidt, Eldorado, Kan., completed the dairy cattle show.

FAT CATTLE.

The quality which was so much in evidence with the breeding cattle was maintained in the steer show. Only five herds had entries of butcher stuff, but these totaling something like twenty-five head were from herds that had many times sent representatives to the top at former Royals and Internationals. The "white face" breed captured the champion steer ribbon, but divided evenly with the Short-horns on the firsts. Much interest was manifested in the judging of these classes. William Hutcheon officiated.

Exhibitors: Cyrus A. Tow, Norway, Iowa; E. M. Hall, Carthage, Mo.; W. W. Brown, Amenia, N. D.; R. M. Anderson, Newell, Iowa. The awards:

Steer, Spayed or Martin Heifer, 2 Year and Under 3—1st Tow on Bonnie Brae 40th (Hereford); 2d Tow on Denver (Hereford); 3d Brown on Dick Turban (Short-horn).

Steer 1 Year and Under 2—1st Brown on Tommy (Short-horn); 2d Tow on Standard 1st (Hereford); 3d Anderson on unnamed (Angus).

Steer Under 1 Year—1st Brown on Young Harry (Short-horn); 2d Hall on Hallwood 2d (Short-horn); 3d Tow on General (Hereford).

Group consisting of one animal 2 year and under 3; one animal 1 year and under 2, and one animal under 1—1st Tow; 2d Brown; 3d Tow.

Grand Champion Steer—Tow on Bonnie Brae 40th.

THE HORSE SHOW.

Had the other draft breeds been as well represented as were the Percherons this department of the show would have been most creditable. In all there were fifty head of drafters entered by five exhibitors and save for the two Belgian stallions these were all Percherons or French Draft. The money offered in the Clydesdale and English Shire classes was not disturbed. Swift had one of his "big sixes" there, and these with the Shetland ponies made up the show.

PERCHERONS.

As the majority of the draft horses were Percherons and the remaining one-fourth French Draft entered by the same breeders most of the contesting in the horse show lay between the Percheron Importing Co., St. Joseph, Mo., and Lee Bros., Harveyville, Kan. Brown & Walker came in for a few firsts in the Percheron class, but despite the fact that their aged stallion, Helix, was the grand champion at the 1910 International he was unable to win first in the aged class against the Percheron Importing Company's Joel. This occasioned some surprise, but a careful comparison of the two horses plainly indicated that Kirk's horse, this year showing for the first time as a senior, is really in condition to make some others hustle before the season's end. J. F. Roelofson, Maryville, Mo., and P. G. McCulley, Princeton, Mo., each exhibited several head and won their share. They are deserving of especial mention, as there is nothing which adds more to the interest and value of a draft horse show than does the attendance of the man with a few native-bred animals. His presence offers competition for the big importer and breeder and lends encouragement to other men starting in the business. The horse awards were decided by John DeLancy, Northfield, Minn.

Exhibitors: Percheron Importing Co., South St. Joseph, Mo.; Lee Bros., Harveyville, Kan.; J. F. Roelofson, Maryville, Mo.; Brown & Walker, Clarinda, Iowa; P. G. McCulley, Princeton, Mo. The awards:

Stallion 4 Years and Over—1st Percheron Importing Co. on Joel; 2d Brown & Walker on Helix; 3d and 4th Percheron Importing Co. on Insolent and Jalon.

Stallion 3 Years and Under 4—1st, 2d and 3d Percheron Importing Co. on Kazo Karillon, and Keith.

Stallion 2 Years and Under 3—1st Lee on Reinhard; 2d and 3d Percheron Importing Co. on Legianaire and Logiste; 4th Roelofson on Dynamo.

Stallion 1 Year and Under 2—1st Brown & Walker on Belmont; 2d and 3d Lee on Moraine and Charamol; 4th Roelofson.

Mare 4 Years or Over—1st Lee on Beattie; 2d and 3d McCulley on Gaite and Grive.

Mare 3 Years and Under 4—1st and 2d Lee on Flora and Marceline; 3d Brown & Walker.

Mare 2 Years and Under 3—1st and 2d Lee on Lucille and Delia.

Mare 1 Year and Under 2—1st Lee on Madeline; 2d McCulley on Dorothy; 3d Brown & Walker on Miss Helix; 4th Lee on Monetta.

Foal Under 1 Year—1st McCulley on Wonder; 2d Lee on Brilliantine.

Best Five Stallions Owned by Exhibitor—1st and 3d Kirk; 2d Lee.

Best Three Mares Owned by Exhibitor—1st Lee; 2d McCulley; 3d Lee.

Two Animals Produce of One Mare—1st Lee; 2d McCulley.

Best Four Animals any Age, Get of One Sire—1st Lee.

Champion Stallion—Percheron Importing Co. on Joel.

Reserve Champion—Lee on Reinhard.

Champion Mare—Lee on Beattie.

Reserve Champion—Lee on Lucille.

INTERSTATE SPECIAL.

(Limited to Missouri, Kansas, Nebraska and Iowa-bred animals. First prize winners in open competition barred.)

Stallion 1 Year and Under 2—1st and 2d Lee on Moraine and Chramol; 3d and 4th Roelofson.

Stallion Under 1 Year—Lee on Brilliantine.

Mare 1 Year and Under 2—1st McCulley on Dorothy; 2d Brown & Walker on Miss Helix; 3d Lee on Monetta.

Mare Under 1 Year—Lee on Neta.

BELGIANS.

There were but two Belgians entered and both these were aged stallions entered for the championship ribbon. C. L. Henman, Halls, Mo., won with Fiston. The Percheron Importing Co. won the reserve ribbon with Farceur.

SWINE.

The swine show at St. Joe would have done credit to a much larger fair. There were a total of 325 animals entered, practically all the classes were filled and well-bred and well-fitted stuff was everywhere in evidence. The porkers were well quartered in the central part of the live stock section and occasioned much favorable comment. Messrs. McKelvie, Burns and Carroll acted as superintendents.

POLAND CHINAS.

Eleven breeders with a total of 113 animals made the show in the Poland China pens. The struggle for the blues was close and no one breeder succeeded in "hogging" them. John D. Lawson, Clarinda, Iowa, judged and divided the purples evenly between Phil Dawson and W. E. Epley, both of Nebraska. Practically every breeder came in for his share of the money and all agreed that it was a good show.

Exhibitors: W. Z. Baker, Rich Hill, Mo.; W. E. Willey, Steele, Neb.; E. E. Carver & Son, Guilford, Mo.; Dr. John Gildow & Sons, Jamesport, Mo.; W. A. Baker, Butler, Mo.; Phil. Dawson, Endicott, Neb.; J. C. Meese, Ord, Neb.; W. E. Epley, Diller, Neb.; J. W. Leeper, Norton, Kan.; Lloyd S. Taylor, Steele, Neb. The awards:

Boar 24 Months and Over—1st Baker; 2d Carver; 3d Willey.

Boar 18 Months and Under 24—1st Meese; 2d Baker; 3d Gildow.

Boar 12 Months and Under 18—1st Dawson; 2d Meese; 3d Carver; 4th Gildow.

Boar 6 Months and Under 12—1st Carver; 2d Meese; 3d Baker; 4th Dawson.

Boar Under 6 Months—1st and 2d Willey; 3d and 4th Meese.

Sow 24 Months and Over—1st Leeper; 2d, 3d and 4th Baker.

Sow 18 Months and Under 24—1st Epley; 2d, 3d and 4th Meese.

Sow 12 Months and Under 18—1st Gildow; 2d and 3d Meese.

Sow 6 Months and Under 12—1st Willey; 2d Meese; 3d Gildow; 4th Baker.

Sow Under 6 Months—1st Willey; 2d Taylor; 3d and 4th Meese.

Champion Boar 12 Months and Over—Phil Dawson on Dollar Mark.

Champion Boar Under 12 Months—Carver on Mammoth Expansion.

Grand Champion Boar—Dawson on Dollar Mark.

Champion Sow 12 Months and Over—Epley on Daisy.

Champion Sow Under 12 Months—Willey on Annie Price 30th.

Grand Champion Sow—Epley on Daisy.

Boar and 3 Sows Over 12 Months—1st Meese; 2d Gildow; 3d Baker.

Boar and 3 Sows Over 12 Months Bred by Exhibitor—1st Meese; 2d Gildow; 3d Baker.

Boar and 3 Sows Under 12 Months—1st Willey; 2d Meese; 3d Gildow.

Boar and 3 Sows Under 12 Months Bred by Exhibitor; 1st Willey; 2d Meese; 3d Gildow.

Four Animals Any Age, Either Sex, Get of One Boar—1st Meese; 2d Gildow; 3d Willey.

Four Animals Any Age, Either Sex, Produce of One Sow—1st Willey; 2d Meese; 3d Gildow.

DUROC JERSEYS.

Next in numbers to the Polands came the Durocs with a total of sixty-nine head brought out by four breeders. H. B. Walter, Effingham, Kan., distributed the ribbons. B. Widle, Nebraska, won nearly all of the blues and purples except where headed off by R. W. Murphy, Missouri, who captured the boar championship and several firsts, and by Gertrude Crow, Kansas, who also won a few that were in good money. There was considerable quality among the reds and some of the aged stuff was especially attractive.

Exhibitors: R. W. Murphy, Cosby, Mo.; B. Widle, Genoa, Neb.; Gertrude Crow, Hutchison, Kan.; G. W. Briggs & Son, Clay Center, Neb. The awards:

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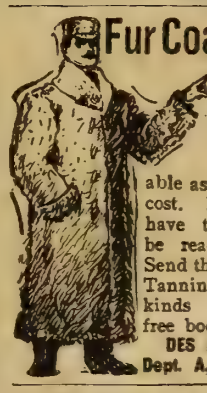

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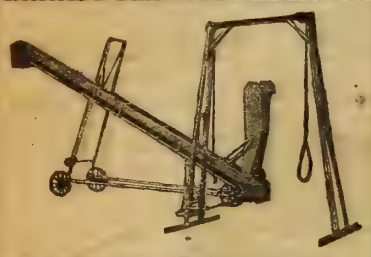

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Boar 24 Months and Over—1st Murphy; 2d Widle; 3d Briggs; 4th Crow.

Boar—18 Months and Under 24—1st Crow.

Boar 12 Months and Under 18—1st Widle; 2d Crow; 3d Briggs.

Boar 6 Months and Under 12—1st Widle; 2d Crow; 3d and 4th Widle.

Boar Under 6 Months—1st and 2d Widle; 3d Crow; 4th Murphy.

Sow 24 Months and Over—1st Crow; 2d Briggs; 3d Widle.

Sow 18 Months and Under 24—1st Widle; 2d, 3d and 4th Briggs.

Sow 12 Months and Under 18—1st and 2d Widle; 3d Briggs; 4th Crow.

Sow 6 Months and Under 12—1st Widle; 2d Briggs; 3d Crow.

Sow Under 6 Months—1st and 2d Crow; 3d Murphy; 4th Widle.

Champion Boar 12 Months and Over—Murphy on King of the Pike.

Champion Boar Under 12 Months—Widle on Wonderful Chief.

Grand Champion Boar—Murphy on King of the Pike.

Champion Sow 12 Months and Over—Widle on Ruby's Pride.

Champion sow Under 12 Months—Widle on Pride of Blossoms.

Grand Champion Sow—Widle on Ruby's Pride.

Boar and Three Sows Over 12 Months—1st Widle; 2d Briggs; 3d Crow.

Boar and Three Sows Over 12 Months Bred by Exhibitor—1st Briggs; 2d Crow; 3d Widle.

Boar and Three Sows Under 12 Months—1st Widle; 2d Crow; 3d Briggs.

Boar and Three Sows Under 12 Months Bred by Exhibitor—1st Widle; 2d Crow; 3d Briggs.

Four Animals Any Age, Either Sex, Get of One Boar—1st Widle; 2d Briggs; 3d Crow.

Four Animals Any Age, Either Sex, Produce of One Sow—1st Widle; 2d Crow; 3d Briggs.

CHESTER WHITES.

Only three additions showed the big white hogs, but between them they had sixty-three head of splendid specimens. Mr. Walter also refereed this contest and when the melee was over it was quite evident that Thos. F. Kent, Walnut, Iowa, had "made a cleaning," he having won all the championships and most of the blues. Waltmire, Missouri, followed closely after him, however, with some fine entries, but was unable to root him away from much of the top money.

Exhibitors: Thomas F. Kent, Walnut, Iowa; W. W. Waltmire, Peculiar, Mo.; S. D. & B. H. Frost, Kingston, Mo. The awards:

Boar 24 Months and Over—1st Kent; 2d and 4th Kent; 3d Waltmire.

Boar 18 Months and Under 24—Frost.

Boar 12 Months and Under 18—1st Frost; 2d Kent; 3d Waltmire.

Boar 6 Months and Under 12—1st Kent; 2d and 3d Frost; 4th Waltmire.

Boar Under 6 Months—1st and 3d Kent; 2d Frost; 4th Waltmire.

Sow 24 Months and Over—1st and 2d Kent; 3d Waltmire; 4th Kent.

Sow 18 Months and Under 24—1st Kent; 2d Frost; 3d Kent; 4th Waltmire.

Sow 12 Months and Under 18—1st and 3d Kent; 2d and 4th Waltmire.

Sow Under 6 Months—1st and 3d Kent; 2d Frost; 4th Waltmire.

Champion Boar 12 Months and Over—Kent on Kent's Promoter.

Champion Boar Under 12 Months—Kent on Iowa King.

Grand Champion Boar—Kent on Kent's Promoter.

Champion Sow Over 12 Months—Kent on Iowa's Delight.

Champion Sow Under 12 Months—Kent on Iowa Pearl.

Grand Champion Sow—Kent on Iowa's Delight.

Boar and Three Sows Over 12 Months—1st and 2d Kent; 3d Waltmire.

Boar and Three Sows Over 12 Months Bred by Exhibitor—1st and 2d Kent; 3d Waltmire.

Boar and Three Sows Under 12 Months—1st Kent; 2d Waltmire; 3d Frost.

Boar and Three Sows Under 12 Months Bred by Exhibitor—1st Kent; 2d Waltmire; 3d Frost.

Four Animals Any Age, Either Sex, Produce of One Sow—1st Kent; 2d Frost; 3d Waltmire.

HAMPSHIRES.

There were sixty-one Hampshires in the pens, the property of three exhibitors. Again Mr. Walter made the decisions. The hogs with the white girdles made a strong showing. Brinigar, Missouri, and Fisher, Nebraska, put up the principal scramble for the firsts. Brinigar won the majority by a small margin and they divided evenly on the champsionships, the boars going to the Nebraskan and the sows to the Missouri man.

Exhibitors: G. S. Lawson, Ravenwood, Mo.; W. J. Brinigar, Blythedale, Mo.; Roy E. Fisher, Winside, Neb. The awards:

Boar 24 Months and Over—1st Fisher; 2d Brinigar.

Boar 18 Months and Under 24—1st and 3d Fisher; 2d Brinigar.

Boar 12 Months and Under 18—1st Brinigar; 2d Fisher; 3d Lawson.

Boar 6 Months and Under 12—1st Fisher; 2d and 3d Brinigar; 4th Lawson.

Boar Under 6 Months—1st Brinigar; 2d Lawson; 3d Fisher; 4th Brinigar.

Sow 24 Months and Over—1st and 2d Brinigar; 3d Fisher.

Sow 18 Months and Under 24—1st Brinigar; 2d Fisher.

Sow 12 Months and Under 18—1st Brinigar; 2d and 3d Fisher.

Sow 6 Months and Under 12—1st Fisher; 2d, 3d and 4th Brinigar.

Sow Under 6 Months—1st Lawson; 2d and 3d Brinigar; 4th Fisher.

Boar and Three Sows Over 12 Months—1st Brinigar; 2d Fisher.

Boar and Three Sows Over 12 Months Bred by Exhibitor—1st Brinigar; 2d Fisher.

Boar and Sow Under 12 Months—1st Fisher; 2d and 3d Briningar.

Boar and Three Sows Under 12 Months Bred by Exhibitor—1st Fisher; 2d and 3d Brinigar.

Four Animals Any Age, Either Sex, Get of One Boar—1st and 3d Brinigar; 2d Fisher.

Four Animals Any Age, Either Sex, Produce of One Sow—1st Fisher; 2d and 3d Brinigar.

Champion Boar 12 Months and Over—Fisher on Dr. Scott.

Champion Boar Under 12 Months—Fisher on Fisher's King 5th.

Grand Champion Boar—Fisher on Dr. Scott.

Champion Sow 12 Months and Over—Brinigar on Blythedale Princess.

Champion Sow Under 12 Months—Fisher on Fisher's Queen 7th.

Grand Champion Sow—Brinigar on Blythedale Princess.

BERKSHIRES.

There was no excitement in the snub-nosed class. Mr. Lawson made the awards without any hesitancy, secure in the knowledge that there would be no dissatisfaction, for the eighteen Berkshires entered were all from one herd, that of the Iowana Farms, Davenport, Iowa. As far as these hogs would go around in the twenty-two divisions, they won everything. This herd was really an exceptionally good one and would have made some interesting competition had other Berkshire breeders been on the ground. Mr. Lawson placed the Berks.

SHEEP.

It was a good sheep show, although a small one, there being slightly more than 100 entries. There were Shropshires, South Downs, Cotswolds, Rambouillets, Oxford and Lincoln. Waltmire, Allen and Cook each had entries that divided the money up pretty evenly between them. James Lawson & Sons won a number of firsts with their Oxfords.

ALL TOGETHER FOR GOOD ROADS.

(Continued from page 3.)

throughout the state generally, was as follows:

Days' work with teams and graders, 144.

Days' work with teams and drivers with wheel scraper, 205.

Days' work with teams and drivers with slip scrapers, 1,083.

Days' work with teams and drivers hauling supplies, 75½.

Days' work with teams and plows, 198.

Days' work by single hands with pick and shovel, with scythes, with drills or with axes, 2,907.

Days' work with engine and grader, 13.

Pounds of dynamite used, 1,665.

Miles of road graded, 77 1-3.

Miles of brush and weeds cut, 78¼.

Hills worked on, 150.

Feet of 18-inch culvert pipe put in, 731¼.

Feet of 24-inch culvert pipe put in, 540.

Feet of 30-inch culvert pipe put in, 160.

Feet of 36-inch culvert pipe put in, 305.

Miles of road dragged, 10½.

Miles of hedge cut, 11¾.

Corners rounded, 26.

Bridges repaired, 19.

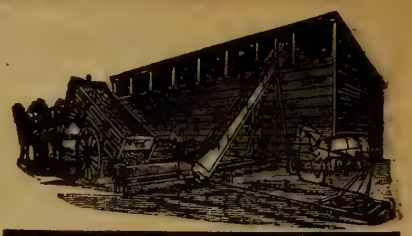
Culverts repaired, 23.

Total value of work or improvements, if paid for at the usual rates, $13,879.

Another county which rallied nobly was Pettis county (in which Sedalia is located) where the work was furthered by the bureau of agriculture, with S. M. Jordan and M. V. Carroll in command. The report of the highway engineer shows that 1,401 men worked on the roads in this county the two days. The highways were put in good condition and road sentiment was crystallized as never before in one of the most progressive and prosperous counties of the state.

The tobacco yield in the average Wisconsin field this year is medium to good, according to James Johnson, tobacco expert for the university college of agriculture. While a number of excellent crops were harvested, the general average of yields will not be as heavy as anticipated earlier because of unfavorable growing conditions during much of the season. Some crops made practically no growth after planting and inspection showed them to be badly infected with the root rot disease. It is estimated that the tobacco acreage for this year is about 40,000 acres, of which 15,000 acres is in Dane county.

Conclusive evidence that Kansas farmers are hard up, and are on the verge of bankruptcy is given in the fact that at a public sale near Independence one day last week the sales amounted to $3,500 and notes were given for less than $200, says the Kansas City Star.



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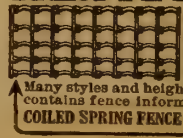

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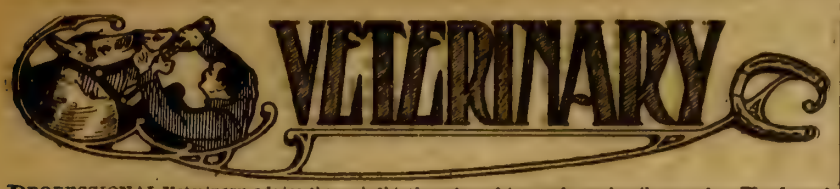

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

PINK EYE.

I have pink eye among my cattle and would like some advice on how to treat this disease and also precautionary measures.

Once or twice daily wash affected eyes with a 10 per cent solution of boric acid, applied on fresh swabs of cotton batting, and each other day dust the eyeballs with a mixture of equal parts of finely powdered calomel or iodoform and boric acid. Isolate affected cattle and feed them on light, laxative feed. Keep cattle off low, wet pastures.

KNUCKLING.

We have a yearling Clydesdale colt that appears to walk on its toes. The hoof is almost perpendicular in front. At one time both feet were that way, but one has returned to its normal position while the other seems to grow worse. This condition did not come on until the colt was about three months old. Have had a veterinarian trim the hoof, but he seems to do no good. The colt is a valuable draft animal and we would like to save it.

Three times a day stand the colt on a level floor and force the foot down flat on the floor, rubbing the back tendons thoroughly at the same time; then put on splints, or an ankle boot and brace to keep the fetlock in proper position. If this does not avail, after working for a month or two, the veterinarian, if a graduate, may decide to perform the operation known as tenotomy.

CONTAGIOUS OPHTHALMIA.

Some of my cattle have scums formed over their eyes. This commences with the eye becoming watery and looking dull, then the scum begins to form and keeps growing worse until the eye is covered with a white growth.

The disease is contagious, but need not cause loss of eyesight if properly treated. Isolate affected cattle and keep them for a time in a darkened shed or stable and on light, laxative or succulent feed. Wash the affected eyes twice daily with a saturated solution of boric acid, applying it each time with a fresh swab of absorbent cotton. Each other day dust the eyeballs with a mixture of equal parts of finely powdered iodoform and boric acid. If you cannot wash the eyes as advised, simply puff the powder once daily into affected eyes. Keep cattle off low, wet land.

COWPOX.

A two-year-old heifer was fresh in June. About six or seven weeks ago eruptions appeared on her udder, three or four at a time. These would break and heal up and others would take their place. These keep coming. Would her milk be safe to use?

Wash the udder twice daily with a solution of one ounce of granular hyposulphite of soda in a quart of soft water and then apply glycerine of tannin to the sores, as often as found necessary. Isolate the cow and milk her last, as the disease may be spread from cow to cow by the milker's hands. The milk may be used, provided it is unchanged in quality and the cow has no fever.

THRIFTLESS HEIFER.

A two-year-old heifer dropped her calf January 15th last and did fine until two months ago. The heat seemed to affect her and she would stand with her tongue hanging out and pant. Since the cool weather she seems to stiffen up, but is losing flesh and her hair looks rough. I have been feeding her mangels in the evening. She has been on pasture all summer. Her bowels seem to be all right and she chews her cud, but grunts most of the time as if in pain. She is to freshen again in December.

Tuberculosis probably gives rise to the symptoms described and so you should have the heifer tested with tuberculin to make sure. If the disease is present she should be destroyed.

FALL PIGS SHOULD HAVE A GOOD START.

To the Editor of The Homestead:

In order to get the most from pigs that come in the fall of the year it is necessary that they be given a good start while they are young. They must get enough growth and size to enable them to withstand the cold weather during the winter and keep up a constant growth. When the pig has stomach enough to hold a good deal of food he can resist the cold and make good progress and keep up good growth while the little fellow that has been stunted is shivering and remaining behind in growth all winter.

The mother should be in good flesh before farrowing time, and should have sufficient exercise to impart strength and vigor to her offspring. She cannot transmit to the pigs what she does not have herself and if she is thin and weak the pigs will come in like manner. She should be kept in good flesh, not fat, before farrowing, in order to do the best by her pigs.

The sow should be fed on sloppy foods for two or three days after the pigs arrive. At the end of a week she may be fed a fairly good feed of grain and sloppy feed. I consider corn too heavy a feed for sows at this time. A mixture of meal, wheat bran or middlings is good and if the sow can be given a run of grass all the time, it will be so much the better. Do not keep her too close. The pigs will remain with her, often getting too much fat and dying with the thumps as a result.

The pigs should be given a comfortable place in which to sleep. See that the pigs have an opportunity to exercise by the time they are a week old. When they are two weeks old they will begin to nip at the fresh grass, and by the time they are three weeks old they will be eating bran out of the trough with the mother.

A little trough that the pigs can get to, placed where the sow will not have access to it, and some dainty food placed therein, such as sweet milk and bread crumbs, will induce the little fellows to eat much sooner than they would otherwise. They soon smell the food and take hold of it.

The pigs may be fed two or three times a day after they have learned to eat. If any food is left in the trough let the mother clean it up. Try to give just what they will clean up, and increase the ration as their capacity increases. As the pigs grow older they may be fed on coarser material, but by all means make it palatable.

There are a number of reasons why the pigs should be fed well while young. The growth should be promoted to enable them to consume and make rapid gains. This will depend, to a great extent, upon their feeds. The weights made in pigs while young are made at less cost than can be possibly made when older. It is the sure way to encourage us to do our best by them. E. E. Rushing.

CARE AND ADJUSTMENT OF POWER MACHINERY.

To the Editor of The Homestead:

Power machinery often gives poor results for want of some very small adjustment. To keep power machinery at its greatest efficiency it is necessary that it be perfectly adjusted down to the smallest details, that its speed be steady and its bearings tight enough to prevent shafting from jerking or changing positions at high speed.

The average corn grinder should be run at 400 to 600 revolutions per minute to secure good results. Sometimes the burrs will be run so close together that a ringing, shrieking noise is thrown off and at the same time whole grains of corn will be thrown through the burrs. This shows the burrs to be out of adjustment.

There are two burrs: the stationary and the revolving. Nearly all of the stationary burrs have two lugs to adjust them and these lugs should project the same distance from the mill on both sides. Great care should be used to see that they be exactly the same if a uniform product of ground feed is desired.

The rotary burr is fastened to a revolving plate or disk. This disk is usually lathe turned and should need no adjustment, but in the cheaper mills the plates are very often out of true and to secure a uniform feed product it is necessary to put a leather or wooden wedge between the disk and burr. To get this setting correct requires some patience and the mill must be turned by hand very slowly while the nuts are adjusted until both burrs rub evenly all around. This will give a smooth even feed and require the smallest amount of power possible.

When this adjustment has been properly made the burrs may be tightened until the desired fineness is obtained and the operator need not be alarmed by the ringing noise thrown off by them.

The feed cutter should be run 350 to 550 revolutions per minute. The main knife shaft should always be kept tight, as a loose bearing may allow a knife to strike the cutting bar and cause a serious accident.

In setting these they should be set just close enough to the cutting bar that they can hardly be heard and tightened well to make sure they will not work loose. With this setting the feed will be cut perfectly.

Many farmers buy gasoline engines for one purpose only, but when they have the engine they see numerous other odd jobs it could be used for. Suppose they have an old fanning mill and do not feel justified in throwing it away to get a new power mill. In this they are right, as the old mill can easily be turned into a power mill at a few cents' cost. All that is necessary to make the change is to remove the crank, have the blacksmith weld a six-inch piece of steel on the fan shaft or supply a new one altogether. Now put a small wooden pulley on the added end of shaft of the correct size to turn fan at normal speed or just a little faster. Now if your mill has a wind board on side of fan to govern the amount of air your mill is ready for use. If not, make one and you have converted your old mill into an excellent power mill. W. H. Ruther.

$80 an acre net from peanuts via pork!

An acre of peanuts will produce three times as much pork as an acre of corn. Yet peanuts are raised by the same methods of tillage as corn, and instead of *depleting* the soil, as corn does, they enrich it.

At the Arkansas experiment station an acre of peanuts made 1,250 lbs. of gain on hogs, while an acre of corn made only 436 lbs. And 1,250 lbs. is not an extra good showing. Mr. Wright of Lufkin, Texas pastures his hogs on peanuts and makes *1500 to 1800* lbs. of pork per acre! Along the

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peanuts **alone** pay big. J. M. Jones a farmer who lives 8 miles from Jonesboro, Ark., sold $953.32 worth of Spanish peanuts and peanut hay from 10 acres. Land that will yield big peanut crops can be bought **now** at $25 to $30 per acre.

Peanuts is just **one** of the money making crops of Arkansas and Texas. When you get fine land at $15 to $30 per acre; when you have a **mild short** winter and don't have to stall feed stock; when you get **all** the rain that **any** crop needs (40 to 50 inches), you'll make **big money**, no matter what you raise. With good roads, good schools, close markets, phones, **rural** delivery, churches, etc., you don't have to sacrifice **any** social advantage in Arkansas and East Texas.

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Neglect of pens, runs and troughs makes hog lice—and disease—a probability.

The feeder who thinks unwholesome conditions harmless is, therefore, throwing away good money. The one *sure* road to profit in hog raising is by way of cleanliness and sanitation through use of

Dr. Hess Dip and Disinfectant

It destroys lice, the cholera germ, in fact, all germs of infectious diseases, when sprinkled about the premises. Powerful, harmless, easily applied. Make a solution, one gallon of dip to 70 or 100 gallons of water. Spray with this *thoroughly*. Prepare a plank-sided wallow and let the hogs roll in the dip solution. This treatment will end lice and, in addition, render hogs immune to cholera and other infectious diseases.

Dr. Hess Dip meets the Government requirement for sheep scab. Best thing known for sheep ticks and for spraying horses and cattle. Also a valuable agent for disinfecting sewers, sinks, drains and outbuildings.

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SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

SCOTCH COLLIES None better than these. Either sex. Address G. A. Wiebe, Beatrice, Neb.

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SCOTCH Collie full blooded female pups from parents that are natural heelers, well marked, prices reasonable. Earl M. Filson, Birmingham, Iowa.

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MARCH and April hatched S. C. Rhode Island Red Cockerels, extra good color. Prices right. Mrs. Frances Strong, Oakland, Iowa.

S. C. R. I. RED HENS at $1.00, $1.50 and $2.00. No pullets for sale. Address Mrs. Sophia Rader, Laurel, Ia.

FOR SALE—R. C. R. I. Red hens, Pullets $1.50 each, $15.00 per doz. Cockerels $2.00 each, $18.00 per doz. Mrs. Charles Belz, Conrad, Iowa.

WYANDOTTES.

White Wyandottes 100 hens, 10 cock birds for sale cheap, No. 1 breeders. Geo. W. Livingston, Monroe, Iowa.

PARTRIDGE Wyandottes, 50 fine cockerels and yearlings at prices from $1.50 up. Special prices on a few hens. Thos. L. Morian, Indianola, Iowa.

FAHA'S Silver Wyandottes; great stock reduction sale now on; 200 young Silvers; bargain prices. Write wants. Frank Faha, Jr., Bx.620, Dyersville, Ia.

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241 EGG Strain S. C. Buff Orpington, 100 breeders at $1.00 each. Eggs ½ price. Circular free. W. L. Bardsley, Neola, Iowa.

SINGLE Comb White Orpington Hens and Pullets at attractive prices. Choice cockerels at $1 up. Mrs. Howard Niswander, Kinross, Iowa.

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Heavy-Weight Light Brahma Eggs Shipped by insured parcel post. Address Frank Johnson, Monroe, Iowa.

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FAWN and white Indian Runners. Early hatched from prize winners, (mated 3 ducks, 1 drake) $5, others $1 up. Mrs. Howard Niswander, Kinross, Ia.

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

$10.00 PER DOZEN. Yearling Indian Runner ducks, Faun, also Penciled. Some winners. R. O. Dickson, Box 30, La Harpe, Illinois.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

INFORMATION ABOUT FATTENING GEESE.

To the Editor of The Homestead:

The following inquiry comes from a prominent farmer of Dyer county, Tennessee:

I have read with great interest the article on "Fattening Geese." Will you please tell me in what county or counties Mr. Firke buys his geese? To what market does he ship them and what price per pound does he receive? How many geese are required to fill one car and what are the express charges per car? I am thinking of buying and shipping geese this year. We ship most of our market poultry to Chicago. Do you know of a better city to which I might ship? Memphis, Tenn., is much nearer, but I notice the market quotations are usually much lower than the Chicago market.

Mr. Firke does not confine his purchase of geese to any county or counties. He just goes into that part of Tennessee where more geese are raised than grain. Last season he purchased 4,000, oftentimes only a few in one place, and drove them sixty miles to the nearest railroad. His profit is derived not from buying and shipping alone, but by feeding and fattening. He not only adds to their weight, but to their value. A fat goose is worth vastly more per pound than a thin goose. It is impossible to say what they will bring per pound. Two years ago Mr. Firke cleared nearly $600 on one car load and last year not nearly so much on twice that number. They vary in price, depending on quality and other conditions. Mr. Firke shipped to New York. Whether it would pay you to ship to New York instead of Chicago depends on the difference in cost of transportation. Your local agent should be able to advise you in regard to this question. Mr. Firke's geese are sent by freight accompanied by an attendant. This year they were fed wholly on corn, each goose eating a pint a day. They were fed thirty days and gained an average of four pounds each. They consumed a great deal of water. Minnie G. Stearns.

FATALITY AMONG INDIAN RUNNER DUCKLINGS.

To the Editor of The Homestead:

An Ohio subscriber sends in the following inquiry:

I have a flock of about forty Indian Runner ducklings. For awhile they seem all right, then they will stagger around as if drunk and fall over dead. Some are quite large, but large and small go the same way. I am losing two or three a day. I feed screenings, cracked corn, bran and chick feed, with plenty of clean drinking water at all times. Can you tell me what is wrong with them?

This query was referred to an extensive breeder of Indian Runner ducks, whose wide experience and success makes her opinion valuable. She attributes the fatality among the ducklings to improper feeding. She says that when an Indian Runner duckling is once hatched it ought to be sure to live. No corn in any form, unless very little in a mixture, should ever be given them. The following is her formula for feeding ducklings:

Four parts bran.
Two parts shorts.
1 part cornmeal.
One-eighth part beef scraps.
One-fourth part grit.

She advises leaving the cornmeal out of this mixture in the case of our correspondent, since the little ducks are ailing from its use. She also gives an occasional feed of oatmeal by way of variety. Feed five times a day—not giving more than will be eaten up clean. Never allow food to lie around from one meal to another.

They had plenty of clean, fresh water, but it should be so arranged that they cannot get into it, as that is very injurious to the young birds. They should be able to wash their bills out thoroughly, but not to wet their bodies. With chicks as with ducks, cleanliness is indispensable.

Keeping these precautions in mind, our correspondent should achieve the success she so desires.
Mrs. S. B. Titterington.

LAWS FOR WOMEN AND CHILDREN.

To the Editor of The Homestead:

There are a number of new Iowa laws which became effective on July 4th of particular interest to women and children. The case of many of these are the work of the so-called female lobbyist of which you hear so much. The truth of it is there is a small band of splendid women working for the betterment of humanity, working for your interests and mine, for your children and mine and the patience and sweet toil they put in so unselfishly but indicates what the world may expect when women are privileged to take a direct part in the making of laws.

Therefore, the most important act of the legislative body was to pass the amendment to the state constitution granting equal suffrage. This same amendment, by virtue of this same state constitution, must be passed by the next legislature and then be ratified by the people. (We do not know just what classification we belong in, but we women folks aren't people according to the constitution).

The widow's pension law was fathered by those who saw that we were needlessly separating children from their mothers and breaking up homes—homes that should exist for their sacred influences—if financial aid was but given the mother at the right time.

According to a new law, if the court finds the mother of such dependent or neglected child is a widow, and if the court further finds that such mother is poor and unable to properly care for said child, but that she is otherwise a proper guardian, and it is for the welfare of the child to remain at home, the court may enter an order stating such facts and fixing an amount necessary to properly care for the child, and it is the duty of the county board of supervisors, through its overseer of the poor, to pay to such mother, at such times as the court may designate, the amount so specified; the amount shall not exceed $2 per week and payments shall cease when child is fourteen years of age. Any mother whose husband is an inmate of any state institution under the care of the board of control, shall, for the purpose of this act, be considered a widow, but only while such husband is so confined.

The school age of children was raised from fourteen to sixteen years of age. This means that all children must attend school until they reach the age of sixteen years, unless they have finished the grades before reaching this age. This law was intended to insure each child at least a common-school education.

A law was passed creating a number of factory inspectors, one of which shall be a woman whose duties it will be to thoroughly examine into the conditions under which women and children work in factories.

Where a husband dies leaving no will and no children a new law provides that the wife shall receive the sum of $7,500 before any division of property is made. After that sum is given the wife, the balance of the estate is divided equally between the wife and the deceased's parents. If the estate does not reach the value of $7,500, then whatever there is becomes the property of the wife.

Housewives should thoroughly master the laws pertaining to foods. There is one which says that all food sold in package form must have correct net weight or measure of contents set forth clearly on the package and untrue weight is punishable by heavy fine, and another which says contents of package must be conspicuously marked thereon.

In the pure food department there is a long list of good laws regarding weights and measures of food stuff formerly sold by measure, but which must now be sold by weight and those scales must bear an official tag proclaiming the fact that they have been state tested and are correct. Berry boxes purporting to hold a quart must do so and other size boxes must be fractions of a quart.
May McPheeters Smith.

SHORT BUTTER WEIGHTS.

A campaign against dairymen who have been sending short weight butter packages into Milwaukee was begun last week by Fred C. Janssen, city sealer of weights and measures. The first move was the issuance of a state warrant for an Elkhorn shipper who is alleged to have sent to Milwaukee packages of butter supposed to weigh a pound each, but alleged to be a half ounce short in weight.

A warrant has also been issued against a commission firm in Milwaukee, charging them with selling short weight measure of apples.

Fred P. Downing, state superintendent of weights and measures, has sworn out a complaint against a Milwaukee company charging it with selling short weight axle grease to a Madison firm. Two hundred pounds of grease were charged on the bill of lading, but Mr. Downing found that the grease had been carelessly packed and only 140 pounds of grease was found in the shipment. Mr. Downing also arrested a Madison merchant who was selling candy at five cents a pound. The candy was found to be wormy. The merchant paid a fine of $25.

Farmers Who Grind Feed Make Largest Profits

Feeding whole grain is wasteful as it is not properly digested. With high prices for grain and stock it becomes more than ordinarily profitable to grind your feed.

Fairbanks-Morse Feed Mills grind mixed grain and corn on cob at the same time, insuring an easily digested mixture. These mills have light draft, large capacity, long life. Grind fine, medium or coarse. No gears to waste power. Wearing parts renewable at small cost. Capacities: 6 to 60 bushels an hour.

Grind Cheaply—Use a Jack of all Trades Engine for power. It runs on Kerosene or Gasoline. An outfit will save its cost in a short time and will give years of service.

Write for Catalog FC603 stating your requirements.

Fairbanks, Morse & Co.

Fairbanks Scales, Oil and Gasoline Engines, Pumps, Water Systems, Electric Light Plants, Windmills, Feed Grinders
900 S. Wabash Ave., Chicago, Ill.

POULTRY PAPER 44-124 PAGE periodical, up-to-date; tells all you want to know about care and management of poultry for pleasure or profit. **Four** months for **10** cts. **POULTRY ADVOCATE, Dept. 124, Syracuse, New York.**

MINORCAS.

FOR SALE—Thoroughbred S. C. Black Minorca cockerels and pullets. Bred from best of layers and large improved stock, $1 each. Lewis Tieden, Elkader, Ia.

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

PLYMOUTH ROCKS.

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

MISCELLANEOUS.

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa

CHOICE ORPINGTONS, pullets and cockerels, $1 to $2.50. Excellent Bronze turkeys, $3 to $5. Pekin ducks and Toulouse geese trio $4 to $6. Last notice. Mervin Deming, Cortland, Neb.

CHOICE Pure-bred Reds (either comb) yearling hens, ckls., pullets, price $1 each. Indian Runner ducks $1.50. Mrs. Laun, Riverdale Farm, Floyd, Ia.

When writing to advertisers please mention The Homestead.

Echoes From a Kansas Farm

BY HENRY HATCH

This is September 22d and it seems almost like a mild winter morning. When the weather changes suddenly from 100 degrees heat to a 50 degree chilliness, it seems colder than it really is.

We are feeding our cattle nearly a full winter ration, and they clean it all up, too. This bids fair to be the longest feeding season ever known here. Although nearly everyone has every scrap of feed saved, and the growth of fodder was fairly good, feed is going to be a scarce article before spring.

For one thing, much of our fodder is not going to feed out as fodder ordinarily does. It seems to have dried up and shrunk in the shock more than usual, and, besides, there is not the feeding value in the bulk there usually is.

There is moisture enough to start blue grass in the pastures, but the prairie grass had too nearly matured before the rains came to make any start worth mentioning. It has livened up a trifle, but not enough to furnish cattle a living in pastures that were closely cropped.

Beginning now our horses are going to have fodder once a day and hay once a day for their roughness. Hay is costly stuff, figured at $15 a ton to feed horses all winter, and fodder once a day can be made to take the place of it very nicely.

Many who have fields of kaffir corn are cutting it and feeding directly from the field. Both cattle and horses eat it greedily and seem to do well on it, yet, should cattle break into a standing field of green kaffir one might expect trouble. It is strange that to cut and feed it green never gives trouble.

Those who had plowing done before the drouth made plowing almost impossible have been doing some seeding. Moisture is sufficient for present needs, but we must have more to keep any growth made coming along. There is still danger of a dry-out of the soil and the death of the young crop.

Considerable alfalfa has been sown, particularly along the creek and river bottoms. Seed is so cheap that folks feel more like risking a seeding, for one is able to get the best of seed for $5 a bushel. There has been a great crop of seed threshed this fall and it is selling lower than we ever have known of it being sold here before.

The farmers' co-operative store in this county is growing right along, doing more and more business each week. They are now shipping in corn, selling it to the stockholders of the store company for four cents a bushel less than dealers here charge. They now talk of handling all goods needed by the farmer, even to lumber.

A good many of the lumber yards in this section of the country are going into the hands of what is commonly called the lumber trust. There are several companies owning chains of yards throughout the Southwest, some of them having in their control as high as sixty to eighty local yards. These four or five local companies are buying local yards all the time and adding them to their chains.

When these large companies get hold of a lumber yard in a small town it seems the price of lumber goes higher immediately. This starts talk of putting in another yard, by local men. Such talk is usually put to the quiet by a bluff from the big company that it will cost any local man $10,000 to buck the old yard, as the capital of a million-dolar concern will see that any local growth is put down by price cutting. This usually has the desired effect.

The other day we had occasion to use about 400 feet of No. 1 stock boards in building a board fence. The price was so high we went back with the bill the second time, thinking the dealer had made a mistake in figuring, but we soon found that lumber at $3.25 counted into money pretty fast. This is the highest price we ever remember paying for only a fair quality of boxing. But a few years ago we were able to buy the best of finish lumber for less. No doubt lumber is scarcer, but we have our suspicions that the general increase in price is not wholly justified by a lumber scarcity.

No one wants to see a frost soon, as the late forage crops are still doing some good. We find that a part of our kaffir corn is going to be worth heading, and we may get enough grain from the entire acreage to make feed for the usual number of chickens. Many are selling down close on chickens, believing that the price of grain will not justify keeping the usual flock. Two cars of hens have lately been shipped from our small town.

E. W. Day & Son's Duroc Sale.

E. W. Day & Son, Kellogg, Iowa, held their first sale of Duroc Jerseys in Newton, Iowa, September 25th. For the first sale it must be considered good, as they made an average of about $25 on thirty-eight head. The sellers were satisfied and the buyers received good values for the money expended. The sale was conducted in a straight-forward, business-like manner and Messrs. Day made many friends by so doing. The offering was in nice shape and was a credit to their ability as breeders and feeders. A list of those selling at $25 and above is appended. Col. N. G. Kraschel did the selling:

1.	C. Kirkpatrick, Newton, Iowa..	$30
2.	C. M. Bisome, Reasoner, Iowa..	40
3.	B. Luppin, Reasoner, Iowa.....	26
4.	H. Smith, Newton, Iowa.....	28
5.	G. Eggert, Newton, Iowa.....	31
6.	H. Lance, Newton, Iowa.....	29
7.	A. T. Squire, Grinnell, Iowa....	37
8.	F. J. Miles, Newton, Iowa.....	41
9.	B. Luppin	27
11.	G. E. Richardson, Gilman, Iowa	45
17.	Earl Guthrie, Reasoner, Iowa..	25
22.	E. S. Turner, Colfax, Iowa.....	29
26.	J. Sampson, Newton, Iowa.....	30
27.	Earl Guthrie	25
29.	Earl Guthrie	25
42.	J. K. Stewart, Newton, Iowa..	31
38	head sold for $902; average	$25

Cope's Poland China Sale.

J. H. Cope, Carlisle, Iowa, made a public sale of Poland Chinas at the state fair grounds of Iowa, September 26th. Owing to the light attendance the demand did not care for the entire offering. Prices ruled rather low, but Mr. Cope permitted buyers to take what they wanted at sacrifice prices. Col. W. B. Duncan disposed of three-fourths of the offering at the average of something less than $30 per head. The quality of the animals in the sale was excellent. Among the buyers were: G. W. Carner, Polk, Iowa; E. H. McDaniel, Avon, Iowa; L. Meisburger, Campbell, Iowa; Fred Randleman, Carlisle, Iowa; John Stuart, St. Charles, Iowa; F. M. Cart, Mitchellville, Iowa; R. B. Blake, Dallas Center, Iowa; H. C. Henry, Carlisle, Iowa, and J. H. Deemer, Des Moines, Iowa.

LANDS AND HOMES

Roseau County, Minnesota

ROSEAU County has again taken first premium for general farm products at this year's Minnesota State Fair. This makes four years in succession that we have taken that premium. We also took special prizes for the best clover, oats and other crops. Prairie or timber land. Improved or wild. We handle the best land in Roseau county. Our prices range from $10.00 to $60.00 per acre. Write. We send illustrated price list free. Address **The Martin Land Company, Roseau, Minn.**

292 ACRE ALFALFA AND STOCK RANCH

75 ACRES in alfalfa, ten acre timber feed lot, balance corn and blue stem grass. R. R. station at corner, all very choice river valley land, within three miles of two towns. $100 an acre. Improvements fair. 80 acre alfalfa farm well located and improved, $125 an acre. 240 acre well improved and located, upland farm, $50 an acre. 460 acre, well improved and well located upland farm at $60 an acre. All in Lyon county, Kansas. Address **W. S. KRETSINGER, EMPORIA, KANSAS**

For Sale High Grade Farm

TWO miles from city of 20,000 in Iowa, fine improvements, heavy soil, thoroughly tiled, main road. Everything correct. Just the farm for a man who is able to own the best farm in the best location. Address

C. W. SOESBE - GREENE, IOWA

KANSAS FARMS AND RANCHES FOR SALE 80 to 25,000 acres. Write for free list. V. E. NIQUETTE, Salina, Kansas

WANTED to hear from owner who has good farm for sale. Send description and price. Northwestern Business Agency, Minneapolis, Minnesota.

FOR GOOD IMPROVED STEARNS CO. FARMS see John Traun, Rockville, Stearns Co., Minnesota.

ALL KINDS OF FARMS FOR all kinds of people. Free Catalogues. Hall's Farm Agency, Owego, Tioga County, New York.

WE sell Oceana farms. Greatest fruit Co. Also grain, potatoes, alfalfa, dairying. List, etc., free. J. D. S. Hanson & Son, Hart, Michigan.

IMPROVED 120 acre farm, one mile from Bagley, Minnesota. $18.00 an acre. Exceptional opportunity. H. G. Falde, Carlisle, Iowa.

LANDS AND HOMES

OHIO FARM FOR SALE

LAKEVIEW farm of 167 acres, located in Fairfield county, twenty-eight miles east of Columbus, the Capital of the State. All black land—well adapted to raising corn and general farming. Farm is leased for gas, having one very strong producing well, which affords free gas for the farmhouse besides an annual revenue. Will sell with farm, crops and implements and a fine span of young Percheron mares. Price $150.00 per acre including gas lease. Correspondence solicited from interested parties.

OSCAR BAKER, Owner, 204 Lincoln Ave., Delaware, Ohio

Carey Act Land Opening

Beginning August 7, 1913. 3,600 acres in Bear River Valley, Utah. Low price, easy terms and long time. Also 9,000 acres of deeded land in the Neponset Tract to be sold at low prices, easy terms, long time.

Write for complete information. Summer Tourist fares 1st class daily to, and including, Sept. 30, 1913, and Homeseekers' fares (second class) 1st and 3d Tuesdays of each month.

R. A. SMITH,

Colonization & Industrial Agent, Union Pacific Railroad Co., Room 1186, Union Pacific Bldg., **Omaha, Nebraska.**

BARGAIN --IN-- Nebraska Corn Land

$4,000 DOWN and time on the balance at 5% interest will buy a 600-acre farm, we have for sale in the North Platte Country, Nebraska. It joins a railroad right-of-way, is near beet dump, has good house, barn and improvements. 100 acres in corn this year will go 30 to 40 bushels. 35 acres in alfalfa has produced three crops. Subject to irrigation Price $40 per acre. The soil is exceptionally good and this is a rare bargain. Address

WOODS INVESTMENT CO., LINCOLN - - - NEBRASKA

FOR SALE

320 ACRE farm three miles from town, close to three other good towns, about 30 miles east of Cedar Rapids in best farming section of state. Lies level to gently rolling. High state of cultivation, finest improvements, 24 buildings, fine waterworks, best of fences, etc., on main road, pleasant place to live. Bargain at $175 per acre. Will carry back $25,000. Write for full particulars if you want an A No. 1 farm. Deal with the owner. **J. A. Templeman - Mechanicsville, Iowa**

"Central Wisconsin Lands"

OWN your own farm. We have for sale improved and unimproved farms in the great dairy, corn and clover country at prices from $15 to $75 per acre. Call on or write

TROWBRIDGE and REIBSAMEN, Curtiss - - - - Wisconsin

CHOICE HOMESTEADS LOCATED IN BELTRAMI CO. Also real estate bargains on the best soil in the state from $5 to $25 an acre. Beautiful river front locations. Lots of fish and big and small game. Best of references. For further parculars write William Rulien, Baudette, Minnesota.

100 CHOICE FARMS in the garden spot of Southern Minnesota, where corn is king. Price $60 per acre and up. Prices advancing rapidly. Come now. Free list. The Paffrath-Schmid Company, Springfield, Minn.

FOR SALE Eastern North Dakota, slightly rolling quarter section, no improvements. One mile from county seat, black soil; town has five elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Avenue, Peoria, Illinois.

FARMS WANTED. We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Ass'n, 33 Palace Bldg., Minneapolis, Minn.

CAN FURNISH retired business men, clerks, bookkeepers and others fine farms, 5 acres and up to 1,000, near railway stations and good markets, cheaply and on easy payments. Write for particulars to Stephenson Land & Lumber Co., Oconto, Wis.

ONE of the nicest laying and best quarters in Stanley Co., S. D., for $7.75 an acre. Terms: $440 cash; balance $800 in July, 1915. This is worth while considering. D. A. Stoyer, Pierre, South Dak.

FARM FOR SALE 133 acres, 125 in crops, good fence, cottage, big barn, wind mill, 12 miles from Houston, Texas. $65.00 per acre. M. H. Kerr, Almeda, Harris Co., Texas.

If You Want A Home in the best corn, clover, bluegrass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

FINE half section adjoining town of 1,500, Southern Minnesota, best of soil, fine improvements, very easy terms. A real snap. Address C. W. Soesbe. Greene. Iowa.

FOR BARGAINS in real estate for sale or exchange anywhere, address Sewell Land Company, Garnett, Kansas.

FARM FOR SALE

400 ACRES, 260 in cultivation, balance in good timber. 100 acres of land in timber will make fine farm land when cleared. 360 acres under good fence, mostly woven wire. Part of the land is in the valley, but no overflow; part gently rolling, just enough for good drainage. Timber on the 100 acres will pay for clearing ready for the plow; the other 40 acres is good fruit and pasture land. The soil is a dark, sandy loam, with a clay subsoil. Produces good crops of corn, wheat, oats, millet, clover and timothy, and all of the valley land will grow good alfalfa. A self-binder or mower can be operated over all the land in cultivation, and also over the other 100 acres when cleared. There are 3 sets of buildings on the farm. One set consists of good frame 8-room two-story residence, with halls on both floors, two-story porch in front, and two large rear porches, good stone-walled cellar; new barn, 46x60 feet, 14 feet to eaves, with hay track and basement, granary, machine shed, smokehouse, poultry house, etc. One other set of buildings consists of a two-story 5-room dwelling house and necessary outbuildings; the other set consists of 4-room house with porches, goodbarn and other necessary outbuildings. There are two good bearing orchards, consisting of several different sorts of fruit—apples, peaches, pears, plums and cherries; also an abundance of all varieties of berries. Three good cisterns, good living well, and four good stock ponds. Situated in splendid neighborhood, healthful location, ¼ mile from good school and church and 1½ miles to three other churches. On main county road and within daily mail delivery. Two of the dwelling houses equipped with telephone connection. Can rent farm for ½ of all crops put in barns and stacks. Good title. Price $60 per acre, only one-fourth cash, good terms on balance. Address Box 32, Salem, Dent County, Missouri.

Irrigation

from wells. If you secure your farm in Elko County, Nevada, you are not subject to the high prices usually paid to Irrigation Companies. Sink your own well and at a cost of pumping of about $3.00 per year per acre will cover your entire expenses. There are 15,000 acres of land just north of Reno good for general farming on which water can be secured from wells. Prices range from $4 to $10 per acre. Write to me and I will give you full free information regarding these lands.

B. A. McALLASTER, Land Comm., 803C Flood Bldg., SAN FRANCISCO, CAL.

BUY FROM OWNERS

I HAVE several improved farms in the famous Red River Valley, close to towns, schools and creameries. Will sell these farms at low price, long time, easy terms. Will furnish all the milch cows and hogs that can be handled on these farms, and let you pay for same from proceeds. Five hundred dollars will handle 160 acres. **Look This Up, Mr. Renter,** also wild lands in Wisconsin and Minnesota. **LAKE STATES LAND CO.,** S. D. Works, Mgr., Improved Land Dept., 405-6 Commerce Bldg., St. Paul, Minnesota.

FOR SALE

200 ACRES of good, well improved, Shelby county land, for sale at a bargain if taken at once. Would accept small herd of any good breed of cattle as part payment, if desired. Write for particulars. Address **BANK OF IRWIN - - - IRWIN, IOWA**

FOR SALE

STOCK and dairy farm, silo, etc., furnace and bath room in house, modern and complete, 160 acres, one mile from city of Albert Lea, Minn., 7,000 inhabitants, 12 miles from Iowa line, 5 railroads. Owner has moved away. Bargain. Come and see it. **LOREN G. BLACKMER, Water St., ALBERT LEA, MINN.**

IOWA FARMS

WRITE for my large 1913 list of South Central Iowa farms, all sizes, abundance of fruit and water, good terms. The cheapest good land in Iowa today is in Madison, Union and Clarke counties. Address **J. G. SHRIVER - - WINTERSET, IOWA**

BIG IOWA SNAP IN 200-acre stock farm. New house just completed; two new barns; 160 acres lies good; forty acres timber and pasture. Must be sold in 30 days. Best of terms. You'll want it at $90.00. Ask for further particulars. Address Sheldon & Tedford, Mt. Ayr, Iowa.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

IOWA FARMS--- **Write today** for our Special Farm Bargain List. Farms of all sizes for sale, and the cheapest **good** land in Iowa. **SEE** these before buying; we can suit you. **E. E. McCALL - - WINTERSET, IOWA**

"Mine is a Maxwell"

That's the Proud Boast

of every man who owns one of this famous line of cars.

No Matter Whether

it's a big 7-passenger "50-6," a "35-4" or the substantial "25" model---he is equally proud because he knows the difference is only in size and power---the same excellence of workmanship and the same quality of material go into all Maxwell models.

Paradoxically,

we can make a better "big car" because we make the smaller models. Why?

Because,

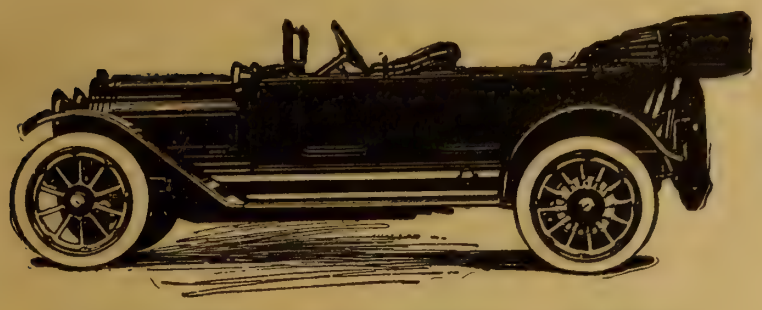
making them in tens of thousands makes it possible for us to have every pound of steel made to our specifications, enables us to install the best heat treating plants and finally distribute our "overhead" so that the big "50-6" carries only third the load.

That's Why We Say That the Maxwell "50-6"

is the best value to be found in that class of cars just as---and for the same reason---that in all the world there's no such value as is to be had in the Maxwell "25-4" at $750.

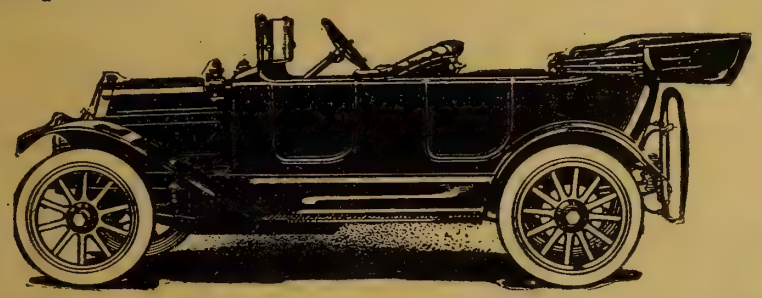
This, Maxwell Owners Know—

and so, when asked, enthusiastically proclaim, ***"Mine is a Maxwell."***
Prices---The 50-6, $1975: The 35-4, $1225, with electric starter and lighter; and the 25-4, $750 plus the freight. Send for Catalogue "A" describing this complete line of cars.



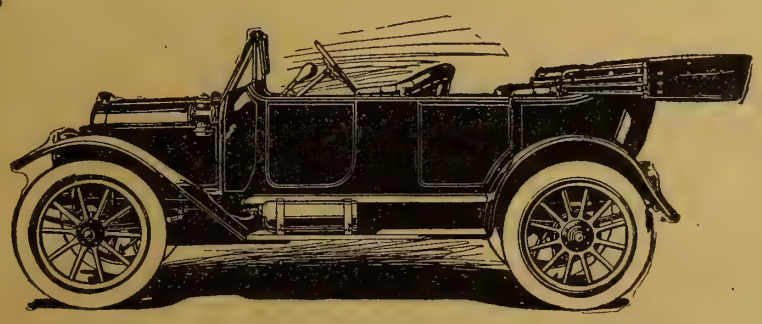
1914 Maxwell "50-6"---$1975

The sweetest running thing on wheels. Six cylinder motor, bloc-cast, 50 H. P., 130 in. wheel base; electric starter and lights; Bruce Ott body; 5-7 passengers; disappearing seats; 36 in. x 4 1-2 in. tires all 'round. Luxuriously finished, long, easy riding springs and full equipment, including ventilating windshield, top and Jiffy curtains, even an electric cigar lighter. Left or Right side drive optional.



1914 Maxwell "35-4"---$1085-$1225

Powerful, silent, sweet running, bloc-cast, 4-cylinder motor; 111 in. wheel base; 33 in. x 4 in. tires all 'round. Left hand drive, center control. Electric starter and lights, at $1225. Three-quarter elliptic springs. Bruce Ott body, ventilating windshield and full equipment, including Jiffy curtains



1914 Maxwell "25-4"---$750

The year's sensation. Four-cylinder, bloc-cast; 25 H. P. motor; magneto; weight 1600 pounds; 103 in. wheel base; 30 in. x 3 1-2 in. tires all 'round; 3 speed electric transmission; full five passenger body designed by Bruce Ott; complete equipment, including tire holders, windshield; top, Jiffy curtains.

Maxwell Motor Company, Inc., Detroit, Mich.

Dealers and Service Everywhere

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

PREPARING SHEEP TO WIN PRIZES.

To the Editor of The Homestead:

It is the man who has an ambition to win the best prize and who has a picture of that prize in his mind weeks before the show, who usually is the winner. It costs something in personal sacrifice to prepare a sheep for winning and the man who is not enthusiastic is not usually willing to make that sacrifice.

After work with the sheep has once begun, you must avoid setbacks. If you have your sheep nicely trimmed and they are left out-of-doors in a storm, all the work you have done will be spoiled and you will not be able to do it over, for the fleece will never again be as good as it was—at least not until the following year. Sheep must have exercise, so it means that the shepherd must camp near them and be ready to take them into shelter at the first signs of rain.

One really should take the precaution of blanketing every show sheep from the time it receives its first trimming. This keeps the wool clean and avoids accidents that might tear out a portion of the fleece just in the place where it would spoil the entire animal.

Blankets can be made at home from heavy ducking—eight or ten ounce. If no pattern is at hand, one should be made by experimenting with a piece of cheap cloth or burlap. When the pattern is once satisfactory, it should be kept for future use. The blanket should cover, not only the body, but the neck and head, especially of those breeds with wool on the face. Holes can be cut for the eyes, and if the blanket is properly made, the sheep will have no difficulty in wearing it.

Every sheep should be carefully trimmed, and trimming should begin as soon as the wool has grown long enough to be readily trimmed with the hand shears. Trimming must be done systematically and with an ideal in mind. The man who goes at it without a definite object can never produce an attractive looking animal.

Flies are usually bothersome about the time this work begins, and more than one good sheep has been kept out of the ring because of an accident in trimming due to the bother of the flies. This trouble may be forestalled by applying one of the coal tar dips to the parts of the sheep not protected with wool. This will keep the flies off and the sheep will probably stand still. A halter is quite necessary, unless you have an extra man who can take time to hold the animal. Trimming must be slow work, however, for the wrong part removed cannot be placed back on the sheep.

Of course, you may work out your own system of trimming after you have had experience, but the system here described will be suggestive to beginners. It has proven a good system with several of the most successful showmen, but that does not prove that there is no other system. The important point is—have a system; don't trim hit or miss.

First, sponge off the wool with a rag dipped in warm water. Work out any dirt that may be present and make the fleece fluffy.

Begin trimming on top of the shoulder. The first object should be to get the back straight. Be sure to have the sheep standing on level ground, or better still, on a floor. A sheep that is humped may deceive you so that you will trim a decided dip into the back.

Next trim the rear end to correspond, making the general appearance blocky. Of course you will avoid sharp corners, but make the top level and the sides perpendicular with a nice roll at the juncture.

Next trim the left side from front to back.

The right side is easiest trimmed from the thigh forward, unless you use the shears in your left hand.

Next square up the breast, then the left side of the neck and then the right side. The job is completed by putting the finishing touches on the head and neck.

One trimming will not be enough. After the sheep has gone for a few days, you will see some part that is not right. It may be that you didn't comb it out enough. At any rate, you must have your eyes always open for a place to better the trim. Even after you get to the show, you will see ways of improvement.

If any of the wool becomes dirty, even the wool on the rump, don't trim it off, wash it carefully.

John Y. Beaty.

LITTLE POINTS OF BIG IMPORTANCE.

Oversized sheep are no more likely to win prizes in the breeding classes than those undersized.

A ewe that does not furnish enough milk to raise at least one good lamb should be culled from the flock.

Heavy or forced feeding during the first year or two of a sheep's life will often make it lose its teeth between the ages of three and four.

If your sheep are irregular in eating or in chewing their cuds, it is a sign of poor teeth—examine the mouth.

Fields on which no sheep or goats have pastured for at least a year are usually free from parasites that infest the sheep. A flock is safe on such a field.

Sugar beets and mangels are dangerous feed for rams or wethers.

In buying new sheep, either for breeding or for feeding, be sure they are all entirely healthy. Diseases and parasites are readily transmitted from one flock to another by a single sheep.

Sheep are easily frightened—don't shout or move among them carelessly. It is possible to do considerable harm by being rough in the sheep pens.

The College of Agriculture of the University of Wisconsin is expecting a record-breaking attendance. Several new buildings are under construction. Extensive improvements costing $5,000 are being made on the hog barns. A new demonstration silo is also being built.

ADDITIONAL FIELD NOTES.

At the Fairmount, Neb., tractor meet held September 13th, the Weber tractor won first prize in its class. Its low price, compactness, light weight and durability will make it very popular with corn-belt farmers. The Weber tractors have been made for thirty years and back of them is an enviable reputation. More information about the Weber tractor can be learned by writing the American Gas Engine Co., Kansas City, Mo.

Walker's galvanized roofing and siding will last for an indefinite period. It is lightning proof, protects buildings from fire on the outside, cannot rot and makes insurance rates low as well as saves paint bills. It is easy to put on and can be cut to fit any shaped building. It can be bought direct from the Walker Sheet Metal Co., Council Bluffs, Iowa, at quite a saving. See advertisement on page 15.

Minnick & Nansel's Sale.

On October 17th at the Kiel Barn, in Council Bluffs, Iowa, Minnick & Nansel will make a public sale of fifty head of big-type Poland China boars and sows. Mr. Minnick will practically close out his herd, and Mr. Nansel is selling the pick of this year's crop in this sale. Included in this sale will be boars and sows sired by such well-known sires as Big Victor, I Am Big Too, Big Omaha, L.'s Quality, Big Tom, Guy's Price Last, Big John and Metal Top. Mr. Minnick is including his herd boar, Big John, a grandson of Big Orange, out of a daughter of Mischief Maker's Best, and his second dam is that famous old brood sow, Hazel's Price. He is a well bred boar and a good breeder, and he is going to be a good bargain for someone who wants a herd boar. He sells a lot of spring boars, some splendid brood sows with litters at side and some good fall sows and spring gilts. Among these good brood sows that he sells with litters is Early Girl and Queen, daughters of I Am Big Too; Pearl, a daughter of Big Tom, and Spot, a daughter of Great Prospect. These sows are also the dams of most of the young stuff that Mr. Minnick will sell in the sale. Mr. Nansel is selling some very excellent spring boars and gilts from his herd. Among the spring boars are No. 29 and 30, sired by L.'s Quality and out of Lady Kuhl by the noted show and breeding boar, Big Tom. These are especially good spring boars. He also sells some good boars sired by Big Omaha and Hadley M. A good March boar that he will sell is sired by Big Tom and out of a daughter of D.'s Defender. This will be the only Poland China sale held at the Bluffs this fall and will, therefore, be a good sale to attend. The catalog is now ready and will be sent on application to Minnick & Nansel, Council Bluffs, Iowa. Bids sent to Col. N. G. Kraschel will receive attention on sale day. Mention The Homestead when writing for catalog. See page 36.

Messenger Boy Hampshire Sale.

An important announcement to every Hampshire breeder in the corn belt should be the sale of Clayton Messenger, Keswick, Iowa, on October 14th. The sale will be held at the farm three miles east of Tilton and six miles north of Keswick. Messenger Boy has won grand championship at every state fair where shown in 1912 and has repeated the performance where shown in 1913. This is a wonderful record considering the strong competition he has met during the two years of his campaign. Few boars of any breed have been enabled to make such a show record. Mr. Messenger has refused many tempting prices running into the four figures, for this great boar and the breeders who attend this sale are bound to say that his judgment was good in retaining this boar in his herd. Messenger Boy is proving to be a remarkable sire as the show herd Mr. Messenger had out this year and the great lot of boars he will sell in his forthcoming sale will show. About seventy-five boars will be cataloged for this occasion and fifty or sixty of them will be sired by the undefeated grand champion, Messenger Boy. There will be two senior yearlings, three junior yearlings, twenty fall yearlings and thirty or thirty-five spring boars all sired by Messenger Boy. Part of them are the winners at the Iowa, Minnesota, South Dakota and Sioux City fairs this year. Mr. Messenger has refused many tempting offers on these boars while out showing, but has reserved everything for this sale as he believes in giving everyone fair treatment. Mr. Messenger has been engaged in the breeding of Hampshires for several years and his record at the leading shows has been little short of phenomenal considering the strong competition he has met. Any Hampshire breeder in need of a really high class herd boar should not miss this sale as no other sale of the year affords such a valuable opportunity to select from a great number of sons of a grand champion boar. Boars of the herd heading kind can be found here in numbers. There are sure to be many bargains when seventy-five boars are sold in one sale, so breeders should not stay away in fear of high prices. Carlos C. Palmer, Homestead representative, will attend this sale and will gladly execute any commissions to buy sent him in care of Mr. Messenger. See page 39 and write for catalog at once kindly mentioning The Homestead.

The illustration shown herewith is that of Royal Wonder 129731, the excellent Duroc boar at the head of the Cochran herd. This is one of the greatest sires in use in the West. Some excellent fall pigs by him are for sale. Address D. S. Cochran, Lincoln, Neb. See page 47.

Wyckoff's Last Call.

On Thursday, October 9th, at Kellerton, Iowa, S. C. Wyckoff will make a public sale of sixty-three head of his large-type Poland Chinas and everything that he will sell in this sale will be immune and will have been vaccinated. Everything on the Wyckoff farm has been vaccinated a month or more ago with the simultaneous method, so you will know when you buy of him you will be getting immune Poland Chinas and that is something for the man that is buying at this time. He is selling thirty-six spring boars, one yearling boar, two tried sows and twenty-four spring gilts. Most of the young things that he will offer in this sale will be sired by Kellerton King, a son of old Long King, that he formerly owned in the herd. Quite a number will be sired by his present herd boar, Good Orange, a son of Big Orange, and a number by Big Jumbo 2d, a Mouw-bred boar that he has been using, and he will offer this boar in the sale. His herd is made up of the strictly large strains of Poland Chinas, and it will be a good sale at which to buy. Write for his catalog at once and mention The Homestead.

SHEEP.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $15.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - LOGAN, IOWA

I SHIP C. O. D.

FOR distance of 100 miles, choice registered Shropshire sheep, 2-year-old rams, $15; yearling rams, $12.50; ram lambs, $9; yearling ewes, $12.50; 2, 3 and 4 year old ewes, $10.50; 5 and 6 year old ewes, $9; ewe lambs, $9. This special low price for thirty days, ending November 7th. Are of mutton type and in good condition. Crated and recorded in your name free. Some ewes bred for early lambs. Address
GLENN F. RIDER, FARMINGTON, IOWA

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FORTY GOOD

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK, BELMOND, IA.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. 11 choice yearling rams, 1 two-year-old ram, and some ram lambs. They are heavy boned and well wooled. Low prices to close out. I am about sold out of ewes.
EARL BLOOM - BRIDGEWATER, IOWA

Registered Oxfords

AND Shropshire yearling rams and ram lambs of the best of breeding. Priced right. Write or come.
W. H. HUNT & SON - - GALT, ILL.

I SHIP C. O. D.

FOR distance of 100 miles choice registered Shropshire yearling rams at $12.50 per head. Address
GLEN F. RIDER - FARMINGTON, IOWA

SHROPSHIRE RAMS AND EWES

YEARLING, two-year-old and three-year-old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

FOREST HILL STOCK FARM

OFFERS at bargain prices, Shropshires, both sexes of all ages, quality and breeding good. Will price ewes in lots at prices to suit all. Call or write
KAUFMANN BROS., R. 1, MOSCOW, IA.

RAMBOUILLET SHEEP Choice rams and ewes for sale. Prize-winning stock and excellent blood lines. Address at once C. S. Pratt, Arapahoe, Nebraska.

RAMS, LINCOLNS, Registered yearlings $25.00 B. F. Clark, Alba, Iowa.

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

SHROPSHIRES 20 recorded rams and 50 ewes for sale, at reasonable prices.
A. T. Guthrie - - - - - Newton, Iowa

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Williard Miller, R. 2, Anita, Iowa.

THE LIVE STOCK MARKET

Union Stock Yards, Ill., Sept. 27.—Live stock trade during the past week has been pregnant with features, among which the appearance of a record breaking week's supply of sheep and lambs, the failure of the enormous supply to depress values sharply, and the scoring of a $9.50 beef steer top under a week's cattle supply at six leading markets, nearly 30,000 larger than the week previous, have stood out conspicuously. The general market has acted after such a fashion as to lead the trade to look through optimistic glasses when viewing probable trade conditions for the winter months ahead and for the coming year.

Strictly good to prime beef steers are selling 10 to 15c higher than a week ago. Plain and medium killers have lost an early week gain, while stock and feeding grades, after selling higher Monday, have slumped back, losing 10 to 25c of their recent 25 to 50c advance, medium stockers suffering most and choice feeders the least. A swelling of the supply of range cattle of both sexes has contributed to the dullness shown toward the week-end in the butcher cattle market and last week's advance on she stuff below prime corn-fed class has been ceded back to the buying side, medium to good she stock and bulls closing 25 to 35c under a week ago. Hogs are selling much closer together than at this time last week, the spread in prices being narrower, in fact, than any preceding time this season. Packing hogs are fully 10 to 15c higher than a week ago, the best light 15c lower, with the top at $9 and the bulk on an $8.20 to $8.65 basis. Nothing in the sheep house shows more than a 25c decline from last week's closing levels, while 10 to 15c covers the loss on native classes and some good feeding lambs.

The week's receipts at six markets will total about 200,000 cattle, 295,000 hogs and 462,000 sheep, a gain of about 28,000 cattle and 35,000 hogs over the week previous, and about the same sheep total. Chicago's receipts increased 12,500 cattle, 25,000 hogs and 45,000 sheep, the sheep run at approximately 232,000 exceeding the former banner week's total by about 4,000. Receipts of sheep for September will establish a new record for September marketings by approximately 140,000 head.

A set of Jewish holidays begins next week and these events always exert a depressing influence on heavy cattle, consequently it will be well to feed the market sparingly. Cheap stuff is doing relatively better than in long-fed steers and the latter are not big money makers for feeders even at current prices.

A tourist who surveyed a bulletin at the Chicago yards announcing the arrival of approximately 80,000 cattle of six western markets on Monday, promptly pronounced beef shortage reports canards and yet the figures prevaricated. A large proportion of that 80,000 was stock cattle in process of shifting to favored localities; much of the balance was merely near-beef. Only at Chicago has good beef been available in considerable quantities this week and how killers did buy it; $9.50 being paid for both aged and yearling steers, $9.15 for slop-fed steers and $9 for a few South Dakota rangers that never knew the taste of corn. Such a market never before existed in the wake of a big corn crop. Maintain that gait and the cattle industry will soon come back. Proof that confidence in the meat-making industry has been restored is afforded by a $7 to $8 market for feeder cattle in the face of a partial corn crop failure. Any man who would veal a beef bred calf with a 9¼c yearling market available ought to have his head examined. Maintenance of present prices will prove more effective in restoring meat supply to adequate proportions than any plan conceivable.

Plenty of rain has put fall pastures in good condition in most all sections. Taken as a whole, there is an abundant crop of rough feed, especially in all the north central and eastern states. On the whole these states report a good crop of corn. The country is very short on cattle of all kinds and all would seem that this is an extra good time to buy cattle for feeding or carrying through the winter on roughness or ensilage. Cattle bought now will make good big gains from now until winter for those who have plenty of fall grass and cheapen themselves down to much less prices than it is probable that they can be bought at when winter comes.

Confident prediction of a phenomenally high hog market in 1914 is made by many traders. Prices may work a little lower in the near future, but wait until next March, they argue. For three months or more every market in the country has been flooded with pigs and immature stuff, and in the long run that must tell. Corn is usually blamed for sick pigs, but this year there was plenty of old grain and the new crop matured early, so that old arguments cannot be pressed into service. Anybody who has watched the course of market events, realizes that we will run into a shortage in 1914. Western packers here this week attending the convention coincide in this view, pointing out that the short corn crop will merely aggravate the deficiency.

There is every encouragement for the holding and maturing of beef cattle and even high prices current for feeders do not seem so prohibitive when the fat cattle market has the life it has at the present time and shows an undoubtedly upward tendency. It is a safe thing to let anything ready come right along, as the shipper can reasonably be certain of striking a good market at almost any time.

Michael Murphy, manager of the Chicago packing interests at Omaha, here this week in attendance at the packers' convention, expressed anything but a bearish position on the hog situation. He says disease is making fierce inroads on the herds of Iowa and South Dakota, and damage to the corn crop in Kansas and Nebraska will materially curtail pork production west of the Missouri during the coming year. Kansas is already converting a vast quantity of wheat into hog feed by grinding, owing to the lack of corn on which to give their hogs a good finish and this indicates a very early marketing at light weight of the season's hog crop from drouth territory.

Packers in conclave at Chicago this week concur in the view that threatened shortage of beef cattle on foot in this country is now the most ominous dark cloud rolling up from the West with a threat of disrupting the long extended period of prosperity for packing house men. The proposal of James E. Poole, one of America's most constant students of market and live stock affairs, that the government be applied to for a subsidy of $15,000,000 or more to be available through the agricultural department for the purpose of stimulating production of beef cattle and thus replenish waning supplies of beef for the benefit of the consumer, did not meet with disfavor among them.

The week's trade in hogs on the Chicago market has been done within the following extreme range of prices:

Sept.	Mixed and butchers	Heavy weights	Light weights
19	$7.85@9.15	$7.75@9.00	$8.35@9.15
20	7.90@9.25	7.80@9.00	8.35@9.15
22	8.00@9.25	7.90@9.10	8.45@9.30
23	7.95@9.15	7.85@8.95	8.30@9.20
24	7.85@9.00	7.75@8.75	8.20@9.00
25	7.95@8.90	7.85@8.80	8.20@8.92½
26	8.05@9.00	7.85@8.85	8.30@9.60

The formidable phalanx of half-fat and common grass cattle, selling anywhere from $7.00 to $7.75 when drouth was flooding the market has all but disappeared and killers are now getting very few decent steers under the 8c line. A large slice of the crop has sold this week at $8.50 to $9.25. There has been a generous showing of $9 to $9.25 cattle and a few loads of ripe $9.35 to $9.50 beeves. Liquidation of the crops of long-fed steers fattened on last year's corn has not yet been completed, however, and prediction of higher prices is all contingent on the disappearance of these cattle many of which are overdue. A few big weight cattle go a long way, but buyers are hungry for fat 900 to 1200-pound classes and anything in the shape of a good yearling, long or short, gets prompt action.

Around 90,000 head of feeding sheep and lambs have been sold on the Chicago market this week and Iowa has been a hungry buyer at Omaha. It has been a phenomenally good market considering supply figures and practically every hoof of Chicago's record week's supply has been cleaned up. Feeders are taking right well conditioned mountain lambs away from killer up to $6.50 to 6.65 and bulk of the fair to good from 52 to 60-pound feeding lambs are selling on a $6.10 to $6.35 basis. Good to choice feeding ewes are making $3.50 to $3.85 and feeding wethers are going largely at $4.00 to $4.25, though some reached $4.60 early in the week. Best fat ewes are now selling at $4.25 and best fat wethers to $4.60, while $7.15 to $7.25 is taking the top cream of the range lambs. Idaho and Nevada are about through shipping, but the October run from Montana and Wyoming promises to be heavy, despite the fact that the West will hold more stock back to feed this winter than ever before. Choice fat range lambs promise to be scarce, however, from now on and will soon begin to climb in value.

CORN AND SMALL GRAIN SHOW.

The Iowa State Corn and Small Grain Show is to be held at Ames under the direction of the Iowa Corn and Small Grain Growers' Association, formerly the Iowa Corn Growers' Association, from December 31, 1913, to January 9, 1914. Coming as it does at the same time as the farmers two weeks' short course in stock and grain judging will afford an opportunity to attend both the short-course classes and the show.

Classes are provided for corn, oats, wheat, barley, clover seed, timothy seed, corn silage and alfalfa in the sheaf. In order to give the exhibitor and the visitor the greatest possible benefit from the contest, each entry will be criticised by the judge and the criticism card attached to the sample.

As premiums for the best entries a large number of farm implements and farm equipments of various kinds have been obtained from manufacturers. Cash premiums to the amount of $1,700 have been secured. Awards will be given as far as tenth place so that many entries will be winners. Banks in nearly all counties of the state have contributed toward the bankers' county special class, the purpose of which is to encourage beginners in the show ring by limiting the competition to single counties. A special premium is to be awarded to the county having a county advisor and making the greatest winnings in the contest.

The two weeks from December 29th to January 10th, promise to be filled with good things and all who possibly can should plan to attend the short course and show and to make entry in the contest.

Show me the man whose lawn is in good condition year by year and I will show you one whose wife did well to get him. For let me tell you, friends and fellow travelers to the tomb, there are more sticks and bones, clothespins and crooked wires upon a lawn, Horatio, than are dreamed of in our philosophy. And he that cheerfully endures the slams upon the bread basket that the lawn mower hands him when its cutters clog, possesses more than Christian fortitude—it mounts up to fiftytude.—[Eugene Wood.

Leather was early known in Egypt and Greece, and thongs of manufactured hides were used for ropes, harness and the like by ancient nations. The Gordian Knot was made of leather thongs. A leather cannon was made at Edinburgh, fired three times and found useful in 1778.

Worms Will Get Your Hogs If You Don't Let Me Kill The Worms

You farmers are being advised to vaccinate your hogs as a preventive and cure of hog cholera. I've not a word to say against it. But I want to tell you this: that if you will take the simple precaution of feeding Columbian Stock Powders there will be no need for you to vaccinate **—your hogs will not be in the slightest danger of cholera.**

Listen, men! Fully nine-tenths of all hog losses are caused by worms. These parasites sap the very life blood of your hogs and so weaken them that they are easy victims of cholera or any other swine disease. How can you expect a hog to keep well and take on weight when a wriggling mass of stomach worms keep absorbing practically all the nourishment from the food the hog eats? Is it any wonder that worm-infested hogs take sick, lose their appetites, slink off and die? But remember that nine times out of ten cholera hasn't a thing to do with it.

I'll Rid Your Hogs of Worms

Yes, **your** hogs have worms, too. Practically all hogs have. That's why there are so many epidemics of swine plague—why hog losses mount up into the millions of dollars every year.

Feed **Columbian Stock Powders** and inside of 12 hours you will **see** the dead worms that have been expelled. These powders are not a food, but a **highly efficient medicated preparation** that not only positively **kills** but also **expels** all stomach, tape, intestinal and lung worms.

These are the **original** Stock Powders. They have been on the market for the past 25 years and all that time they have been recognized as the **best**—the **standard**—powders, by the largest, most progressive stock raisers of the country. They will put a speedy end to all digestive troubles in hogs, horses and sheep. They sharpen the appetite—keep the animals on their feed—so strengthen the digestive system that there is absolutely no waste of food—the fattening period is greatly shortened—your hogs will bring highest market prices—you will be constantly turning your former losses into profits.

Best Conditioner For Brood Sows

Feed **Columbian Stock Powders** to your brood sows and see the strong, thrifty litters they farrow. Keep the sows in finest condition, strong, healthy, free from fever and insures an abundant flow of pure milk.

"Hogs Dying By Hundreds—COLUMBIAN Saved Ours"

"Please ship F. W. Diehl at Shannon, Ill., 500 lbs. Columbian Stock Powder in 250-lb. lots; and Geo. Diehl, Milledgeville, Ill., 300 lbs. in 100-lb. lots. Please RUSH the above orders as the hog cholera is something fierce all over the neighborhood. Hogs are sick and dying by hundreds. Ours were sick but Columbian saved them. Yours truly. DIEHL BROS, Milledgeville, Ill."

Try Columbian Powders for 90 Days Before You Pay a Cent

I don't want you farmers and stockmen to pay me a cent until I positively prove to you that **Columbian Stock Powders** are the quickest, surest and biggest profit makers you ever tried. Just mail coupon, stating how many hogs, horses and sheep you are feeding and I'll make you a free trial offer that gives you 90 days before paying a cent.

Get My Free Book Handsomely illustrated and the most interesting and instructive book on hog and stock raising ever published. Write for your free copy.

Be sure to mail coupon today for my 90 Days Free Trial Offer.

Columbian Self Feeder

Regular price is $5; but if you will write or mail coupon, at once, we will tell you how to get one **FREE**

MAIL THIS COUPON TODAY

Columbian Hog & Cattle Powder Co., Dept. 2 Kansas City, Mo.

Gentlemen:—Without obligating myself in any way to buy, you may send me particulars of your offer to let me give Columbian Stock Powders a 90 Days' Free Trial before paying you a cent. At present I am feeding.....Hogs; .....Cattle;.....Horses;.....Sheep. Also send me, free, a copy of your book, "Make More Money On Your Live Stock" and particulars as to how to get a Columbian Self Feeder FREE.

Name.....

Address.....

AGENTS WANTED

I want a few good responsible farmers of ability to represent me in every community. I'll pay big money for the right men. My proposition is a winner and a big money maker. Write for full particulars.

Address Frank R. McDermand, Pres.

Columbian Hog & Cattle Powder Co.

1450 GENESEE ST., Dept. 2 KANSAS CITY, MO.

Handy Help For Farm Homes

Old Dutch Cleanser lessens work in scores of ways.

TAKES THE DRUDGERY FROM SCRUBBING AND CLEANING

In the dairy, milk cans, pans and pails clean much easier and quicker.

SAVES WORK AND TIME in cleaning harness, feed boxes, carriage tops, etc.

Many Uses and Full Directions on Large Sifter Can—10c

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School shoes that wear like iron

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

It begins to appear that the day of the child has really dawned in America. One of the most promising proofs of this is that at last the United States government has decided that the health of children is as important as that of hogs. A few weeks ago the press announced the publication of the first of a series of monographs for parents to be issued by the recently established children's bureau. In this pamphlet, says the Outlook, the government has made a beginning of doing for the children of the country what it has done superbly for the country's crops and herds.

Work along similar lines is already in progress under the auspices of the extension department of several of the state agricultural colleges. Iowa, for instance, has been doing admirable service of an educational character through the free distribution of its concise and exhaustive circular on "The "Care of Children" (address Agricultural Extension Department, Ames, Ia.) and the short-course classes which are held from time to time under farmers' institute management or organizations of local business men.

An even more promising sign of the times is the baby contests which have become such a popular feature at many of our state, county and other fairs. These contests, whose prizes go not to the prettiest or the best dressed, but to the most physically perfect baby of stated age, were inaugurated by Mrs. Mary Watts, of Audubon, Iowa, to whom much credit is due not alone for initiating, but for mothering a movement fraught with almost limitless possibilities for good.

Mothers take kindly to the idea of the baby contests. As one woman remarked a few weeks ago, "It was not that I expected my baby to win a prize that I entered him. I wanted to find out things about his little body so as to do better by him if I could." Another mother, after dressing her baby, came to the doctors in charge, saying, "Haven't you something to say to me? You did not give me any advice like I hear you giving to the other women."

It is in the opportunity to give friendly advice that some of the best work of the baby contest is accomplished. After the babies' measurements are made the little one clad in his skin is encouraged to play about a few moments before the examining physician, who watches the play of the muscles, the movement of the limbs, notes the texture and quality of the flesh, the brightness of the eyes, the temperature of the skin, etc. Having thus framed an idea of the health of the child the physician then asks the mother questions as to the food given the baby, its bathing, sleep, etc. In many cases it is found the mother has little or no knowledge of baby needs. This is especially the case in regard to food. The number of babies fed potato and gravy and other things unfit for infant digestion is seriously large. It will be smaller as time passes and mothers learn how important it is that their little ones be properly fed—and after the baby contest it is safe to say that mothers regard feeding the baby with altogether different eyes. If it even be measurably true that "the feeding of children is the foundation of citizenship" this is a great step forward.

The physical condition of children is partially decided by heredity, but it is also largely modified by environment. It is therefore matter for congratulation that the health of babies is looming large in public esteem and that parents are being helped as never before to do all that may be done to insure health for their children.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Whatever may be our views about a future life the present is full of opportunity, full of hope, full of cheer. He who gives from the heart out is richer than he who takes from the fist in. The shabbiest tinsel in the world is wealth undignified by labor, and he alone is rich and worthy of regard who has worked to make his day and generation better, and who has given of his love to other men.

"If thou art blest,
Then let the sunshine of thy goodness rest
On the dark edges of each cloud which lies
Black in thy brother's skies.
If thou art sad,
Then be thou in thy brother's gladness glad."

ART OF TEAMAKING.

A good cup of tea is something too infrequently met with when one considers the prevalent use of tea as a beverage. The fault often lies less in the tea than in the manner of its making. Here are some of the rules which, if observed, will prove the quality of the product:

Don't use water that has been boiled a long time in brewing tea.

Don't use water which has not yet reached the boiling point.

Don't allow the tea to brew for more than five minutes.

Don't make tea in a cold teapot. Rinse with hot water before placing the leaves in the pot.

Don't pour a second water over the leaves when the first brew is exhausted.

Don't allow tea to grow damp in the caddy.

Don't buy too cheap a quality of tea and expect good results.

Here is the Japanese method of making a delightfully refreshing beverage: Heat the earthen or china teapot thoroughly with boiling water then empty out the water and put in the tea, pour in freshly boiled water, let it stand for five minutes and serve.

Always use a porcelain or earthenware teapot.

PUTTING UP PEACHES.

In putting up peaches it is well to sort them over carefully, taking the largest and finest for table use, the next grade for pies, the very soft overripe ones for preserves, and the inferior ones which are not spoiled, but only ripe and tedious to peel, for butters and marmalade. In this way nothing is lost, and the canned products present a fine appearance.

Table Peaches—Make a rich sirup of one cup of sugar and enough boiling water to moisten it if pint cans are used. If quarts, use double the amount. Carefully estimate from the size of the halves of the fruit what will fill a can and slip the peeled fruit into the boiling sirup. When hot through, can and cover with the boiling sirup. Seal at once. By taking one can at a time the fruit is kept a beautiful golden color and does not get mushy.

Pie Peaches—Use the broken halves and smaller fruit and cut each half in about three pieces. Make your sirup and cook the peaches only two or three minutes after bringing to a boil in the sirup. Pack closely in cans so they will not be too juicy. Seal while boiling hot.

Peach Butter—Take the small, very ripe fruit after carefully washing the peaches. Cook in a stone or granite vessel till soft with just as little water as will keep them from scorching. Put through a coarse sieve or colander and return to the fire with half as much sugar as pulp. Cook very slowly and carefully until thick and rich.

Peach Preserves—Make a heavy sirup by using one cup of sugar to each pint of peeled peaches or pound for pound if a very heavy preserve is wanted. When the sirup is boiling put in the peaches, which must not stand peeled until they are dark, and draw the pan to the back part of the range, where they will cook slowly and steadily. When clear and transparent, can in jelly glasses or small cans.

Peach Marmalade—Proceed as for butter, but when the pulp is ready to return to the fire add one-half teaspoon of ground cinnamon, nutmeg and cloves to each quart of pulp along with the sugar. Cook slowly till thick, dark and fragrant.

AMONG OURSELVES.

Although some of the crops have been a failure this year others are good and bringing such prices that farmers, on the whole, are in pretty good humor. When grain is going out and money coming in is a good time for the housewife to make her wants known. The farm housewife richly earns a share of the yield of the farm. She should have some of it in household labor savers such as Gilchrist Michigan comes to tell us about:

The art of housekeeping and homemaking has been much discussed recently and many new labor-saving appliances are on the market. In trying to estimate the relative importance of these aids, I find my allegiance divided between the fireless cooker and the

vacuum sweeper. The fireless cooker, even one of the home-made variety, such as I use, is the greatest help towards having well-cooked meals and at the same time having more of the freedom that is so needed by the farmer's wife. The most recent addition to my "working force" is the vacuum sweeper. I could scarcely realize what efficient work it was doing, as it slid easily and noiselessly over the rugs, until I saw the great quantities of gritty dust that came from its interior. However, the greatest thing about it and one bearing directly on the health of the family lies in this fact—the germ-laden dust instead of being thrown up into the air to be breathed by the worker and oftentimes by small children, is drawn into the sweeper to be burned later. While one can understand that not all women can avail themselves of the more expressive devices, it seems strange that they should need to be urged to make use of the little conveniences to be obtained at any ten-cent counter. But we all know women who pare potatoes with a butcher knife and beat eggs with a fork, simply because they have gotten into a rut. Since there are so many vacuum cleaners for the house, we hope that this Home Department will act as a sort of brain vacuum cleaner and draw out the cobwebby, old ideas of saving a dime at the expenditure of a dollar's worth of strength.

Your editor echoes that wish with all her heart. She fairly longs that the Home Department, or some other agency, should stimulate desire and strengthen purpose in the women. Among Ourselves to simplify their labors and so make it possible to give more thought and effort to the higher duties of the homemaker. Let us have labor savers and conveniences talked of until every one is eager and determined. Please write of your little conveniences too—there are still women who pare aples with a butcher knife.

Since we are in the realm of household affairs I will introduce Miss Nina S., who brings "apple ways:"

With apples rotting in the orchards, everyone wants to know new "apple ways." I find that it makes a change which my family enjoy to use cider instead of water in preparing apple sauce; I also find that cooking it in the oven gives it a different flavor. When making pancakes for breakfast I sometimes make an addition to the batter of apples chooped fine, as cabbage for cold slaw. Baked apples are always good, but one likes a change. I take the larger apples and with a corer scoop out a large-sized cavity, being careful not to make a hole clear through the apple. Into this cavity I put butter, sugar and walnut meats or raisins, both if I want the apples especially nice. The cavity should not be too full and the apples should be cooked in a moderate oven, preferably with a cover on until the skins are tender. For a change from the regular apple pie I make a deep apple pie which has no under crust. I use plenty of apples and by making a biscuit crust, which may be as rich as desired I have an appetizing dish which when eaten hot is a very good one at supper these frosty autumn evenings.

That cider hint is new to me. Speaking of cider, do the friends all know that cider may be scalded and bottled, in self sealers, and so kept for future use?

Frosty mornings make hot beverages welcome where they are not felt to be a real necessity and yet many of us object to coffee. To us comes Mrs. Nina Pratt with a recipe for a tested cereal drink:

I have a receipt for a cereal drink that we have used for years and which we would not exchange it for any boughten preparation we have ever tried—also we find it very healthful as you may judge from the ingredients: Three pints of wheat bran; one pint of rolled oats; one pint of cornmeal; one-half pint of rice; one-half cup of sorghum and one egg. Rub all thoroughly together so there will be no lumps and brown it as brown as possible without burning. The browner it is the better the flavor. Stir frequently. Cook well and serve with cream.

Sometimes these cereal drinks are voted "no good" because the cook does not take time enough to prepare them properly. Long cooking is the watch word for their success, and cream in generous quantity is almost a necessity, though some prefer hot milk and a modicum of cream.

A little woman, by name "Mrs. Lonesome," comes to us with something to which the circle is invited to give its attention:

As I am a young wife and mother I feel almost left alone in this since my beloved husband went into the raising of thoroughbred hogs. I don't know if he really thinks about how lonesome it is to sit alone during the long days and till midnight hours waiting for the trains on which he's coming back from fairs or sales. And when at last he gets here his mind is so taken up that he won't talk about or discuss anything but hogs. In these years that he's been in this business he has built up the most modern, large and convenient barns, hog houses, sheds, alfalfa pastures and pens of any farm in the county, while the dwelling house is a small, three-room building with not even a small front yard on which to plant a few flowers. But I do not complain about the house, for I'd be the happiest woman in the world in this little house, if he would only stay at home with me more and show some interest in me and the babies, for I feel as one writer says, "It is not money, position or fine clothes as much as man's love showing itself in all his actions to them and which can be seen, felt and heard, that most women long for." As this is really a breeder's paper I suppose there are many breeders' wives Among Ourselves and I wish some would write their feelings. My husband was not home twenty-four hours in one time from January 2d until March 8th, excepting the day he had his sale. During this time he had a little darling baby born to him and how very lonesome I did feel. I would sit for hours after putting the babies to sleep wondering where he was, what he was doing or thinking about and why he would rather sit in some dirty depot waiting for trains during the night hours when I sit and am so hungry for his strong arms to fold around me. To make money to keep up with his family expenses, someone says, but so far his expenses have been much more than the income; that is, the money he got more than market price. And what is more, any man with a quarter section of good land can make a good living and without that disagreeable hired help, and have things more "homey" and pleasant by doing the work himself with his wife's help in milking, feeding calves and pigs (not alone, of course, but helping) talking and building air casties while doing so.

"Mrs. Lonesome" is in need of advice, wise, sympathetic advice. I trust that our members will rise to the occasion. Please do not stand back and leave it to others to perform this kindly office. If your heart is moved by what "Mrs. Lonesome" has told us put its expression on paper and let me have it—the sooner the better.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 1. Numbers 11: 4-33. Oct. 5, 1913.

MOSES' CRY FOR HELP.

One of the proverbial after-sermon grumbles was, "Why does the minister always talk about those old Jews? What have we to do with them?" The answer might have been, "Much every way!" Although they lived so long ago and so far away, the Hebrews were human beings—just men and women—with hopes, fears, and frailties like our own. Their story is a cross-section of life. It is what life is in every age and everywhere. In this instance the story is peculiarly exemplary, instructive, corrective, and inspirational. To any individual, or mass of such, seeking an ideal—ethical, social, or spiritual—this pilgrim and pillar-led march is suggestive and helpful in the last degree. In point of fact, it is just a pictorial representation of humanity's age-long quest of the "ultimate good." No progress, either of the individual or the mass, is unbroken by moral lapses, more or less shameful. How true to nature, in this instance, the stroke which represents the present ills of Israel as unbearable and magnifies the small comforts of Egypt into delicious luxuries! Pharaoh's bill-of-fare included meat, fish, cucumbers, melons, leeks, onions, and garlic. Jehovah's just mentions manna. The complainers did not have sense enough to consider which menu was the better suited to the physical conditions that then maintained and, therefore, was most sanitary. They all had to matriculate in the expensive school of experience. Fools will learn in no other. With the flesh for which they "lusted" still between their teeth, multitudes of them died. To picture an angry God as smiting the people to death is intolerably unworthy. God did not do it at all, except through the natural operation of those laws which are absolutely impartial. The soul that sins against these laws dies to-day by their natural operation. * * *The proverbial lonesomeness of moral leadership has illustration in Moses' experience. He felt that he was bearing all the people alone. And he was! Hear his pathetic cry to God: "Wherefore hast thou afflicted thy servant, and wherefore have I not found favor in thy sight, that thou layest the burden of all this people upon me? Have I conceived all this people? Have I begotten

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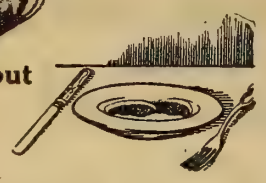

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them, that thou shouldst say, Carry them in thy bosom as a nursing father beareth a sucking child unto the land which thou swearest unto their fathers?" * * * The condition has at length become insufferable, but not before the psychological hour in which a partition of responsibility can safely be made. A moment earlier it would have been impossible. But seventy men can now be found who, in addition to native executive ability, share the vision and spirit of Moses to such a degree as to make them serviceable. There was arbitrary transference of Moses' spirit. It was already upon them. The call to service only quickened it and made the seventy conscious of its possession.

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And happy smile.
Why do you praise them so?
Because they're full of go.
They are not simply built for show
Nor city style. —P. A.

AUTUMN LEAF CONTEST.

Look around you. Isn't this a beautiful season? No artist can excel Nature as a painter.

Aunt Mary wants you to look for pretty autumn leaves. Find three varieties, one leaf each. Place them between a folded piece of cardboard, with slips of paper between the leaves, giving the name of the tree or shrub they grew on, and your own name, age and address.

For the set of three most perfect and prettiest leaves sent her before October 31st, Auntie offers a good story book.

Kindness and Honesty.

(First Prize.)

It is kindness that everybody should look for and give. No one should try to get revenge on some innocent person or animal for some other party's fault. There are a great many people who do things like that.

For instance, a boy received a scolding from his mother for some reason or other, and when he gets outdoors he will hit someone whom he knows he can lick. He may hit his little brother or sister; he may kick the dog, or even pull the cat's tail to make it squeal. He does not think far enough, nor realize that somebody is suffering just because he got into trouble.

A boy should take his dealings when in trouble in the right way, and not grumble and "sass" his parents for an hour or so just because he got in the wrong. The best way to be in the right and keep out of trouble is to be honest and truthful, and you will be liked and trusted by all your friends.

A good way to do this is to join the Boy Scouts of America. Learn the rules given by the scout master and follow them, and you will always be in the right, and seldom in the wrong.

Stick to this, and let it be your motto: Honesty is the best policy.

—Wm. T. Dunn, Wis., age 11.

A Trip to the Mountains in Colorado.

(Second Prize.)

It was a bright, sunny morning on the 16th day of August when we took a trip to the Flat Top Mountains. There were nine of us to go, so we rode horseback.

Just as we were going around a hill we saw a Rocky Mountain automobile, which if you had looked real closely you would have seen was a two-wheeled cart drawn by two burros.

Then as we were going on, we came to a stream of water where we got a drink. After we had gone about seven miles we found that we could go no farther with the buggy. We looked around us, and saw a stream of water running down from a mountain, and the water was ice-cold, and my! it was good! We saw trees at least 150 feet tall and three feet in diameter. We ate dinner and saddled the horses and went on up the mountains.

After we got up there we got some snow and snowballed each other; it was the first time I ever ate snow in August.

We saw a little lake and it was very pretty. It is called the Little Sand Lake. Looking away to the west we could see the Iron Mountains in Utah, about 400 miles away.

—Alice Covert, Okla., age 12.

Roly and Poly.

(Third Prize.)

This spring I offered a neighbor boy 25 cents to catch me a pair of young squirrels. He got them; and I put them in a box with a screen top. I cut a door in the box and fastened it on with leather hinges, and filled the box two-thirds full of leaves.

The little squirrels would crawl to the bottom of the leaves. I fed them milk with a spoon. I called them Roly and Poly; the two names together spell roly-poly.

One day the squirrels found a way out and fell from a high shelf to the ground, where I found them huddled together soon after. One day I found them dead. I put them in a box and buried them under a cottonwood tree.

—L. H.

Farm Life.

I have heard many people say they could not live on the farm, because there was not enough excitement. I was noticing this morning as I was weeding out the garden that there were some mocking-birds and wild canaries sitting and singing as if they knew what each others' songs were. It was so pretty and clear I couldn't help stopping and listening. Who would want sweeter music than that? I wouldn't. City people don't get out to see the beauty of the world.

—Mamie, Tex.

He Couldn't Shoot.

One day my cousin was at our place to go hunting. He didn't get any rabbits. So he wanted to shoot one of our tame ones. The rabbit looked at the gun, and then stood up on his hind legs. When my cousin came into the house, he said he couldn't shoot such nice rabbits. So he went home without any rabbits.

—Annie Dowe, age 11.

Central Wisconsin threshermen report the largest yield of grain ever harvested in that part of the state. The average yield of oats as stated by a thresherman of experience, is sixty-five to seventy-five bushels an acre, measuring by weight, or fifty bushels to the sack. Rye runs twenty to twenty-five bushels by weight. Barley was not so good, but the acreage of barley was also small, oats and corn being the principal grain crops. It is said that the grain is of exceptional quality not being damaged by heat, frost, or blight of any kind. Threshers started work this season fully a month earlier than last year. A number of farmers threshed barley and rye in early August and engaged the crews a second time to thresh oats. The yield of corn is expected to be very heavy and beyond injury by frost.

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I will give **$25 FREE** for the best name for this beautiful Shetland pony. Send the best name you can think of right away, for not only do you have a chance to win the $25 prize, but

You Can Win the Pony Too

for I am going to give him to some boy or girl who will do a little easy work for me. I have given "Dandy," "Patches," "Duke" and "Carlo", other beautiful ponies, and now I am going to give away this pony. But first I want a name for him.

1500 Votes Free Just as soon as you send me a name for the pony I will tell you all about my great offer and I will also send you a special coupon good for 1500 free pony votes. Remember, I will give $25 for the best name for this pony, and I send you 1500 free pony votes and full partiulars about the pony as soon as I hear from you. Write me today.
A. M. PIPER, 688 Popular Building, Des Moines, Ia.

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MONTGOMERY WARD & CO.

NEW YORK, CHICAGO, KANSAS CITY, FORT WORTH, TEXAS, PORTLAND, OREGON

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Oct. 13, R. R. Blake, Dallas Center, Ia.
Oct. 16, F. W. Akers, Laurel, Iowa, sale at Gilman, Iowa.
Oct. 17. Minnick & Nansel, Council Bluffs, Iowa.
Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 23, Williams Bros., Villisca, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, G. W. Sefrit, Lucas, Iowa.
Oct. 28, O. J. McCullough, Clarks, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 4, C. W. Phillips, New Sharon, Ia.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams & Sons, Villisca, Iowa, (sale at Sciola, Iowa.)
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 11, R. C. Hollingshead, Russell, Iowa, sale at Chariton, Iowa.
Nov. 13, H. F. Dodds, Florence, Neb.
Nov. 14, E. V. Waugh, Greeley Center, Neb.
Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheydan, Iowa.
Jan. 24, Beall & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb, 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 19. C. W. Phillips, New Sharon, Ia.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Oct. 14, Danford & Dewhurst, Ord, Neb.
Oct. 15, H. I. Branson, West Branch, Ia.
Oct. 16, Theo. Foss, Sterling, Neb.
Oct. 17, F. H. Swan, Missouri Valley, Ia.
Oct. 22, Rude & Son, Moorehead, Iowa.
Oct. 24, Barker Bros & Crowell, Riverton, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 27, J. P. Peterson, Herman, Neb.
Oct. 29, Economy Stock Farm, Shenandoah, Iowa.
Nov. 5, S. W. Swanson, Stanton, Iowa, (sale at Red Oak).
Nov. 10, John T. Higgins, Abilene, Kan.
Nov. 12, W. M. Sells, Indianola, Iowa.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Wm. Zimmerman & Sons, McNabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, Lake City, Ia.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Iowa.
Feb. 5, Swan & Ellis, Indianola, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Keonig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb.25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Oct. 14, Clayton Messenger, Keswick, Iowa.
Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.
Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.

Chester White Swine.

Oct. 14, M. W. Young, Ankeny, Iowa.
Oct. 30, W. P. Doolittle, Woodland, Mo.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

Holstein-Friesian Cattle.

Oct. 21, Registered and high-grade, Henry C. Glissman, So. Omaha, Neb.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Short-horn Cattle.

Oct. 13, S. F. Lockridge, Greencastle, Ind.
Oct. 14, Thos. Stanton, Wheaton, Ill.
Oct. 15, C. J. McMaster, Altona, Ill.
Oct. 15, L. B. Branson, Ord, Neb.
Oct. 16, F. W. Akers, Laurel, Iowa, sale at Gilman, Iowa.
Oct. 16, R. W. Botts, Plymouth, Ill.
Oct. 21, C. J. C. Cold, Berlin, Iowa.
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. D. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.

Imported Shire Mares.

Dec. 11, Trumans Pioneer Stud Farm, Bushnell, Ill.

DATES FOR LIVE STOCK SALES.

Hereford Cattle.

Oct. 21, C. A. Tow, Norway, Iowa.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9. B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Polled Durham Cattle.

Oct. 15, Walker Bros., Ord, Neb.

Aberdeen Angus.

Oct. 16, John Cash, Jr., Parnell, Iowa, sale at Williamsburg, Iowa.
Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.
Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

Percheron Horses.

Oct. 20, Robison Bros., Morton, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201 Washington Building, Madison, Wis.

FIELD NOTES.

Will Bauer, Audubon, Iowa, advertises fifteen immune Duroc Jersey boars for sale on page 46.

If in the market for Holstein cows and heifers write W. C. Kenyon & Sons, Elgin, Ill., as per the advertisement on page 17.

Galloway cattle, both bulls, cows and heifers, are for sale by James P. Milliken, Medea, Ill., whose advertisement appears on page 43.

V. W. Harms, Fairbury, Ill., invites inspection of his imported Percheron and Belgian stallions and mares. See advertisement on page 43.

On page 22 Mervin Deming, Cortland, Neb., is offering Orpington pullets and cockerels, Bronze turkeys, Pekin ducks and Toulouse geese for sale.

Good Duroc Jersey boars are advertised for sale at $30 and $40 by R. F. Aikman, Audubon, Iowa, on page 47. These boars are all right and are well worth the money.

Forty head of immune Hampshire fall and spring boars are advertised for sale by F. O. Peterson, Galva, Iowa, on page 44. Mention The Homestead when writing him.

White Orpington hens, pullets and cockerels of the Single Comb variety are offered for sale by Mrs. Howard Niswander, Kinross, Iowa, in her advertisement on page 22.

A. A. Berry, Clarinda, Iowa, announces on page 38 that he wishes to sell his entire lot of eleven head of Shetland ponies. He will make bargain prices for the whole bunch. Write to the address named above.

Prices on good-boned Chester White boar and sow pigs are quoted in the advertisement of Will Michael, Selma, Iowa, appearing on page 46. These animals weigh from 100 to 160 pounds and are guaranteed as represented.

W. Doolittle, Woodland, Mo., breeds a type of O. I. C. hogs that meet with favor in the hands of practical hog men. He is prepared to fill your order for boars or gilts and solicits your business. Note page 46 for his advertisement.

Sykes metal roofing and siding may be obtained direct from the factory and at reduced prices as noted in the advertisement on page 8. Samples and prices will be provided free to those who write to the Sykes Metal Lath & Mfg. Co., 520 Walnut St., Niles, Ohio.

Sixty head of Duroc Jersey fall and spring boars, all vaccinated, cholera immune and ready to ship, are advertised for sale by C. R. & R. W. Steele, Ireton, Iowa, on page 47. They are pricing these at $35 and $50 and ship on approval, provided you mention The Homestead.

In sending copy for advertisement of O. I. C. and Chester White swine, that appears on page 38. Fred Ruebush, Sciota, Ill., writes: "All stock healthy and doing well. I have a choice lot of boars of different ages now ready to ship. Also spring gilts and bred gilts and sows to farrow this fall."

Climate, soil and sunshine, the great elements of successful agriculture, are boasted by the territories in Dakota, Montana, Idaho and Washington covered by the Chicago, Milwaukee & St. Paul railroad and advertised on page 14. Low rate homeseekers' tickets are on sale every month for those who wish to investigate. As a preliminary preparation, however, it would be well to obtain literature giving facts based on government reports concerning the lands in question. These may be secured without cost by writing to O. E. Shaner, Immigration Agent, 750 Marquette Bldg., Chicago, Ill.

Twenty-five Duroc Jersey boars, mostly sired by A Wonder Jr., the first-prize boar at Sioux City, Iowa, this year, are advertised for sale by H. Gruis, George, Iowa. These boars are all cholera immune and he is pricing them at $25 and $30. Mention The Homestead when writing him. See advertisement on page 47.

Chas. Escher & Son, Botna, Iowa, advertise two car loads of Aberdeen Angus cows and heifers for sale on page 43. About half of these have calves at foot. They also have thirty head of good bulls that they are making special prices on. When you write them kindly mention The Homestead.

The Des Moines Tanning Company places an announcement on page 19 which will be of interest to those who wish to purchase fur coats or robes or who have those articles which need recold weather starts is a good time to have this done. Write Des Moines Tanning Co., Dept. A, Des Moines, Iowa.

No sportsman cares to come back from a hunting trip with an empty hand. One of the best ways of insuring game is to go hunting with a supply of Remington steel line shot shells, which are advertised on page 7. They are made by the Remington Arms-Union Metallic Cartridge Co., 299 Broadway, N. Y.

The Little Giant Elevator in the advertisement on page 20 enables huskers to put in 20 per cent more corn in a day than when they have to scoop from wagon. Proof of this and other advantages of the Little Giant are given in a free book, for which write Portable Elevator Mfg. Co., 155 McClun St., Bloomington, Ill.

Forty head of Hampshire boars are advertised for sale by Roy E. Fisher, Winside, Neb., on page 44. These are all from prize-winning stock. In fact, he won forty-two prizes at the three leading fairs this fall. Don't delay your order, but write him right away. Kindly mention The Homestead when corresponding with him.

The King Aerator advertised on page 7 is a more recently perfected ventilating system for barns and stables. The advertisers assume all risk by guaranteeing this ventilator to satisfy every purchaser or money will be returned. For price list and particulars address Galvanized Steel Cupola Co., 1177 Vine St., Owatonna, Minn.

Swanson's all-steel portable grain dump and elevator is advertised on page 20. It is a steel machine, practical, indestructible and built so that it will elevate small grain, potatoes, flax seed, or any field or garden products. Catalog giving prices and terms may be obtained by writing to Swanson-St. Joseph Plow Co., St. Joseph, Mo.

Wood sawing is never a pleasing occupation, but the folding sawing machine advertised on page 13 comes as near to taking hard work away from the operation as may well be done. This saw is operated by one man and does more work than two men. For low prices and catalog A-36 write to Folding Sawing Machine Co., 161 W. Harrison St., Chicago, Ill.

Marlin repeating rifles are made in all the popular big game calibers, as well as those suited to the ordinary sportsman. The Marlin is a gun suited to every demand and it is always dependable. Catalog describing it and giving prices may be obtained by sending three cents for postage to the Marlin Fire Arms Co., 135 Willow St., New Haven, Conn. See page 6.

Quaker City feed mills are sent direct from the factory on a free trial with freight prepaid. These grinders are rapid, easy to operate and grind coarse or fine, as may be required. They are made in twenty-three styles. For particulars as to the above offer and illustrated catalog address the A. W. Straub Co., Dept. G-3723 Filbert St., Philadelphia, Pa. See page 20

Fairbanks- Morse feed mills are advertised on page 22 of this paper. The manufacturers urge that farmers grind feed, because grinding makes it more easily digested and enables the animals to assimilate a greater proportion of the food values. The Fairbanks-Morse feed mills are described in catalog FC 603 for which apply Fairbanks-Morse & Company, 900 S. Wabash Ave., Chicago, Ill.

The latest and most popular fall suits for young men are advertised on page 11. Reference is made to the Clothcraft blue serge special sold at $18.50, guaranteed all wool and fast color. The manufacturers of Clothcraft goods also supply many other styles of clothing, all of which are described in the catalog for which apply to the Joseph & Feiss Co., 628 St. Clair Ave, N. W., Cleveland, Ohio.

In an advertisement on page 21 our readers are referred to Visio as a remedy for moonblindness in horses. It often happens that horses are affected by moonblindness or other diseases of the eye, which makes them shy and dangerous drivers. Visio is offered as a means of curing and preventing eye diseases. Note that it is sold at $2 per bottle, prepaid to address. Send orders to Visio Remedy Co., 2458 Calumet Ave, Chicago, Ill.

It is asserted that in Arkansas and portions of Texas an acre of peanuts will produce three times as much pork as an acre of corn, and that, too, while it requires less tillage, a crop of peanuts does not deplete the soil as does corn. The advertisement of the Cotton Belt route on page 21 cites some things along this line. The advertisers have also prepared a number of books illustrating the advantages of Arkansas and Texas, that may be obtained free of charge by sending a postal card request to E. W. La Beaume, General Passenger Agent, 1708 Pierce Bldg., St. Louis, Mo.

An advertisement of interest to Homestead readers wishing to buy Poland Chinas will be found on page 38. Blake & Blake, Maquoketa, Iowa, are offering spring boars by Again Chief Price 192035, second-prize winner of the Iowa State Fair, 1912. They also have some large, growthy gilts of the easy-feeding type, that have plenty of length and bone. These animals will be sold at farmers' prices.

The attention of our readers is directed to the advertisement on page 44 of O. J. Satre in which he announces that he has for sale Poland China fall and spring boars. These are excellent pigs and worth much more money than the owner is offering for them. They are by a son of Big Jones, one of the most popular big-type hogs of southern Iowa. For prices or other descriptions write to O. J. Satre, Jewell, Iowa.

Lewis Lye is advertised on page 6 of this paper. Aside from its merits as a household article, Lewis Lye is exceptionally fine as a hog conditioner and preventive of disease. The manufacturers have made extensive experiments in this direction and have published a book showing its results, which is very interesting. The book may be obtained without cost by applying to the Pennsylvania Salt Mfg. Co., Philadelphia, Pa.

The season has now arrived when farmers should take every means to protect their horses from catching cold. This means that a good horse blanket should be provided for use at all times. Old Honesty blankets advertised on page 12 are made not only for the purpose of providing warmth, but are waterproof also. They are sold at very low prices and may be purchased by forwarding the amount named in the advertisement to the Bemis Blanket Co., Omaha, Neb.

Dressy, durable and comfortable shoes such as the Mayer Honorbilt shoes advertised on page 28 are well worth the price at which they are sold. The Mayer cushion shoes are made for the special purpose of providing comfort for sensitive feet. The illustration in the advertisement shows how this is done. Buyers should insist on obtaining the Mayer Honorbilt shoes from their dealers. They are made by F. Mayer Boot & Shoe Co., Milwaukee, Wis.

The Monitor double disc drills are said to be a very great insurance against losses of small grain crops. The Monitor drops all the seed in front of the bearings at the bottom of the clean, wide furrow in two rows at an even depth, and covers it with a uniform amount of moist earth. Every seed grows. The Monitor is a light draft, it is durable and it is reasonably cheap. The Monitor drill booklet and price list will be sent free on request to the Moline Plow Co., Dept. 11, Moline, Ill. See page 7.

Gradually the practice is becoming firmly established of providing some more durable material for roof coverings. As the outgrowth of this demand the Edwards steel shingles, which are advertised on page 9, have been perfected and offered to the public. They are fireproof, rustproof and leakproof. They are sold direct from the factory, freight charges prepaid. Builders should obtain a copy of the Shingle Book Catalog No. 1090. Address the Edwards Mfg. Co., 1040-1090 Lock St., Cincinnati, Ohio.

One of the greatest and most successful devices provided for the extermination of hog lice is the Hog-Joy Vermin Killer advertised and illustrated on page 38 of this paper. This is simplicity itself. It cannot break. The hog does the work, does it well and keeps himself in a healthy and comfortable condition. The device is sent on a thirty days' free trial and sold, freight prepaid, with two gallons of oil for only $10. Send orders or requests for information to the Hog-Joy Co., 301 N. 5th St., Springfield, Ill.

The Sharples milker is advertised on page 16 of this paper. It illustrates the difference between this new milker and the old plan of hand milking. The difference is too great to be overlooked. This fall thousands of farmers saw the milking machine on exhibition at state fairs and wondered that they had, up to this time, been able to get along without such a labor saving device. A great many interesting and profitable facts are noted in the Sharples Milker Book. Better get one of these from the Sharples Separator Co., West Chester, Pa.

Our readers who are in search of Chester White hogs, male or female, will be interested in the advertisement of G. O. Satre, which appears on page 46. Mr. Satre has at the head of his herd an Iowa State Fair prize winner, as well also as another of particularly excellent blood lines. The brood sows are daughters of Chief Select, now one of the best of breeding hogs in northern Iowa, and others of excellent reputation. The herd is in good condition, thrifty, healthy and right every way. Other information may be learned by writing to G. O. Satre, Jewell, Iowa.

Prices of building materials of all sorts are advertised by the Harris Bros. Company, on page 48 of this paper. The advertisement goes considerably into details with reference to low figures on lumber, roofing, wire fencing, and, in fact, everything connected with the building or furnishing of the farm home. Special pains have been taken to supply the wants of farmers by providing plans, specifications, lists of building materials and full instructions as to erection. This concern is the old Chicago House Wrecking Company and does business on the same plans. A number of catalogs are published, any or all of which

may be obtained without cost by putting check marks in the squares opposite the books wanted on the coupon which appears in the corner of the advertisement and forwarding it to Harris Bros. Company, 35th & Iron Sts., Chicago, Ill.

W. O. Douglas, Janesville, Wis., has a herd of thirty registered Jerseys that are very choice animals. His herd sire is Merry Maiden's Pilot, a son of Beaumont's Pride of Helene of Roselyn Farm. One of his females, Dutchess Calcium, made 4.49 pounds of fat in two days, which is an excellent record. The bull, Royal Fox, a son of Imp. Royal Fox, is the sire of Mr. Douglas' young animals, and they show the characteristics of this excellent animal. For further information write W. O. Douglas, Janesville, Wis. Kindly mention this paper when writing.

The Iowa Seed Company on page 9 of this paper is offering new crop clover, timothy and other grass seeds, and they are urging upon our readers early buying as prices are now quite low comparatively. There seems to be a good crop of grass seeds this year of excellent quality, and as the prices are lower than for several years past, especially on clover and alfalfa seed, it might be possible for our readers to purchase at present values. We suggest that you write the Iowa Seed Company, Des Moines, Iowa, for samples and prices of whatever grass seed you are in need of.

Maxwell cars, such as are advertised on pages 24 and 25, are each year becoming more and more popular with those who want easily operated cars with all the more recent improved devices and that sell at reasonable prices. The three styles illustrated in the advertisement range in price from $750 to $1,975. The latter is a wonderfully beautiful car, a six cylinder, fifty horse power, with electric light, electric starter and luxuriously finished. We might go on at great length in description, yet not more than half tell the story. The full story may be obtained from catalog A, for which write Maxwell Motor Car Co., Detroit, Mich.

Kaufman Bros., Moscow, Iowa, breed Shropshire sheep and advertise them on page 26. They write concerning their sheep as follows: "We are still selling Shropshires at prices that will not rob farmers or breeders. Our sheep are all in good healthy condition and are on the market at prices that will satisfy anyone who wants lambs or ewes either for foundation flock or as reinforcing. We believe buyers cannot afford to miss the rare bargains we are offering. We are in position to sell as low as any breeder, as we produced our own flock and still have a fine lot to sell from. We are not making any fairs this fall and must therefore sell all our surplus stock at private sale. We are located on the main line of the C. R. I. & P. railroad and within a short distance of the River to River automobile road, and would be glad to have sheepmen call or write and will surprise them with our low prices when breeding and quality of stock are considered." Address inquiries to Kaufman Bros., Moscow, Iowa.

At the St. Joseph Fair last week Thos. F. Kent, Walnut, Iowa, the well-known Chester White breeder won the following premiums: Aged boar, Promoter 1st; Combination I. X. L. 2d; Combination T. K. 4th. Junior yearling boar, Iowa Prince, 2d. Under 12 months, Iowa King the Second, 1st. Under 6 months, won 1st and 3d in this class. Aged sow, Iowa Delight, 1st; Kent's Kind, 2d; Iowa Nora, 4th. Senior yearling sow, Iowa Favorite 1st. Junior yearling sow, Kent's Beauty, 1st; Iowa Bond, 3d. Under 12 months, Iowa Pearl, 1st; Iowa Gem, 3d. Under 6 months, won 1st, 3d and 4th in this class. Aged herd, won 1st and 2d. Bred by exhibitor, won 1st and 2d. Young herd, won 1st. Get of sire, Iowa Protection, 1st; Ned, 2d. Produce of sow, Gustafson Choice, 1st. Champion boar over 12 months, Kent's Promoter. Champion boar under 12 months, Iowa Kingser. Grand champion boar, Kent's Promoter. Champion sow over 12 months, Iowa Delight. Under 12 months, Iowa Pearl. Grand champion sow, Iowa Delight. See page 46.

Wisconsin, although the leading dairy state of the Union, has also some of the best Short-horn cattle to be found in the United States. One of these excellent herds is to be found at Lodi, Wis., and is owned by Herr Bros. & Reynolds. They have 125 registered animals headed by three excellent bulls. One of them is Whiterock, a son of Whitehall Sultan. He won first as a calf at the Wisconsin State Fair when shown by Harding, Waukesha, Wis. A second bull is Golden Sultan, a son of Royal Sultan, that was a son of Whitehall Sultan. They were recently offered $10,000 for this bull. At the International in Chicago, he was second as a yearling, first as a two year old and reserve grand champion, and as a yearling was junior champion at the Wisconsin State Fair. There are a great many of his sons and daughters in the herd. A third bull is Cumberland's Ideal, sired by Cumberland's Last, the great Saunders bull. He was first at the Wisconsin State Fair as a calf and junior champion in 1911. Their entire show herd of twenty animals, with the exception of the aged cow, is of their own breeding. At the 1913 Wisconsin State Fair this herd won all firsts and championships on steers, both pure bred and grade, third on aged bull, fourth on senior bull calf, first and third on junior bull calf, second on aged cow, second on two-year-old heifer, second and fifth on junior yearling heifer, second and third on senior calf, first and fifth on junior heifer calves, second on aged herd, second on young herd, first on calf herd, third on get of sire, third on produce of dam. For further information concerning this herd write Herr Bros. & Reynolds, Lodi, Wis. Kindly mention this paper when writing.

Power adapted to all the needs of the farm is rapidly becoming one of the most important means of economizing in help. The gasoline engine has come to the front in a manner more remarkable than the advancement of any farm implement yet introduced. The Economy gasoline engines advertised on page 10 are true to their name. They are made in sizes ranging from one and one-half horse power for the smaller purposes of barn and house up to the ten horse power that handles the heaviest tasks. The Economy is simple and durably built. It has every improvement known to gasoline engine makers. It is equipped with an Elkhart magento which furnishes a dependable spark to ignite the charge in the engine and it will last as long as the engine itself because it is built in as a part of the machine. The Economy runs with a minimum quantity of fuel and gives a maximum of power. The smaller sizes, particularly adapted to pumping, are mounted either on skids or a small truck as the buyer may wish. A handsomely printed catalog of Economy engines illustrates the engines, the various parts, the materials from which they are made and the factories in which they are produced, as well as dozens of unique uses to which they are put. This catalog should be in the hands of every prospective buyer and may be had without cost. Write for it, asking for Engine Book No. 65-I-20. Address Sears, Roebuck & Co., Chicago, Ill.

In an advertisement on page 38, G. F. Marshall & Son, Monroe, Iowa, announce that they have six splendid fall Poland China boars, the get of Giant King and Jumbo. Writing with reference to their hogs they say: "The fall boars we are offering are the best we ever had. They are extra heavy in bone, have great length of body and unusual smoothness. They have the finish of the little show hog, but the size and quality of the real big type. Four are sired by Giant King, one of the few 1,000-pound hogs living and having a capacity to carry 1,200 pounds of fat. He has excellent finish with all his size. Giant, the largest of the fall boars has immense bone and great wide body on the best of feet, and is a litter brother to pigs sold to John Gallman and A. J. Leitel, two breeders who are greatly insistent upon size and quality. The dam of this pig is Miss Prospect, she by Big Prospect. Two of the other Giant King pigs are from Jumbo Price, she by Chief Price. These fellows are good enough for any breeder. They are extra in every way and the best I have seen this year. Their breeding is at the top. I have two good fall boars by Jumbo, he by Big Jumbo. They are out of Lady Monarch 5th, the dam of Giant King. I will ship either of these boars to any breeder on approval. I have also a few spring boars and forty head of yearling and spring gilts which will be sold, bred or not, as the buyer may wish." The Marshall herd has been noted for many years for the high quality which was combined with the size produced. The pigs which are now offered for sale are right in the same line. For descriptions and prices write

De Young Offers Immune Boars.

On page 46 A. J. De Young, Sheldon, Iowa, advertises fifty head of Duroc Jersey boars for sale, all of which have been vaccinated and are immune. Mention The Homestead when writing him.

Frank Rainier's Sale.

Those who are going to want Poland Chinas should remember the splendid offering that Frank Rainier will sell at Logan, Iowa, on Saturday, October 4th. Make it a point to be at this sale if you want a good boar or a few good sows.

Leitch's Clydesdales at Springfield.

John Leitch & Son, Lafayette, Ill., will have an exhibit of their Clydesdale horses at the Illinois State Fair this year, October 3d to 11th, and invite all old friends and prospective buyers to visit their barns at the Springfield fair grounds.

Immune Poland China Boars.

On page 38 C. W. Crees, Coon Rapids, Iowa, starts his advertisement and is offering thirty-three head of good spring boars and every one of these is immune and cholera proof. These boars were all vaccinated a couple of months ago with the simultaneous treatment and are right to go out in any herd. These boars will weigh from 175 to 200 pounds and are sired by Giant Wonder and Long King's equal 2d. He is pricing these boars at $25 to $40 and they are well worth the money. Mention The Homestead when writing him.

Immune Duroc Jersey Boars.

Eighteen choice Duroc Jersey spring boars, everyone a good one, and all cholera immune, are advertised for sale by Peter Johnson, Dickens, Iowa, on page 46. These have all been vaccinated a couple of months ago and are ready to ship. Mention The Homestead when writing Mr. Johnson.

Cope's Poland China Boars.

In the advertisement on page 38 J. H. Cope announces that he still has for sale about a dozen head of Poland China boars of spring farrow. These are big, lusty, thrifty fellows, the get of Long Mastodon and from dams of superior lines of breeding. As it is his desire to close out, special prices will be made early buyers. Address J. H. Cope, Carlisle, Iowa.

Rider's Shropshires.

Glenn F. Rider, Farmington, Iowa, is offering to ship C. O. D. within 100 miles of his town choice registered Shropshire two-year-old rams at $15 each, yearling rams at $12.50 each, ram lambs at $9 each, yearling ewes at $12.50 each, two, three and four year old ewes at $10.50 each, five and six year old ewes and ewe lambs at $9 each. This special low price is for thirty days ending November 7th. They are of the mutton type and in good condition. At this price they will be recorded and crated free. See page 26 and write Mr. Rider mentioning The Homestead.

Miller Offers Berkshire Boars.

On page 38 John C. Miller, Harlan, Iowa, begins his advertisement for fall and spring Berkshire boars and he says for us to say to Homestead readers that he has some good boars for sale and he is offering them at farmers' prices. Mr. Miller is one of the old and reliable breeders of Berkshires in the state and he will treat you right if you send him an order. Mention The Homestead when writing him.

Grade Angus Heifers For Sale.

H. H. Reed, Marengo, Iowa, has eighteen Aberdeen Angus heifers that are pure bred, but cannot be registered. All are two year olds and due to calve early next spring to the service of a registered Aberdeen Angus bull. They will average about 1,000 pounds apiece and would be a great proposition for someone wanting to raise baby beef. If interested write him for price, mentioning The Homestead.

Drake's Poland China Pigs.

C. H. Drake, Lisbon, Iowa, announces on page 38 that owing to scarcity of feed he will sell his season's crop of Poland China spring boars at remarkably low prices. These are of the strictly big-type sort, both in breeding and individuality. The Drake herd is in perfect health and there is no disease in the vicinity. Buyers who wish any should look up this advertisement and note the unusually low prices which are quoted.

Meyer Offers Chester Whites.

With this issue of The Homestead, H. Meyer, Staplehurst, Neb., starts an advertisement in which he offers Homestead readers a few extra choice Chester White spring boars. They are sired by a prize winner at the Nebraska State Fair and are extra good quality, will weigh something over 200 pounds each and are extra heavy boned. Write Mr. Meyer for prices and full particulars. Kindly mention The Homestead when you write.

Holly Williamson's Sale.

On November 5th, H. O. Williamson, Herman, Neb., will make a public sale of Poland Chinas and just take it from us he will sell one of the good offerings of the fall season. Mr. Williamson is generally there when it comes to putting up something choice and he will sell some of the best boars and sows that will be sold in eastern Nebraska this fall. He will sell forty-five head, among which will be eight sows with litters by Giant Defender. He is selling fifteen very choice spring boars and these are as good as he could make them. They are sired by Long Chief Jr., Great Mastiff, Hadley Golddust and Big Tecumseh. He is selling one splendid fall boar sired by Great Mastiff and one fall sow that is a full sister to this boar. Both of these are very good. He is also selecting fifteen of his very best spring gilts. If you are going to be on the market for a good boar or a few good sows about that time you will not make any mistake if you attend the Williamson sale. He never fails to put up a good offering. Send him a postal and ask him to send you his catalog when it is out and kindly mention The Homestead when writing for it.

Belgian and Percheron Horses.

It is somewhat to the credit of the Irvindale Farms that during a recent circuit of four state fairs, fourteen Percheron and Belgian horses were disposed of to parties who inspected them at the different fairs. Mr. Irvine advises us that he still has on hand forty head of stallions and mares and that he is making prices on them below competition. They are advertised on page 38. Buyers are requested to make personal inspection. Address Chas. Irvine, Ankeny, Iowa.

Prochaska's Polands.

J. J. Prochaska is advertising fall and spring Poland China boars at bargain prices, sired by Smooth Wonder Yet, Matchless Charmer, Pawnee Jumbo, all of the best big-type blood lines. Smooth Wonder Yet is a son of Smooth Wonder 2d, bred by Peter Mouw. Pawnee Jumbo is a hard boar to beat for size, bone and quality, weighing at eleven months 405 pounds with a ten-inch bone. He is a good prospect for a 1,000-pound boar. See page 38 and write for prices to Mr. Prochaska, Protivin, Iowa. Kindly mention The Homestead.

W. J. Steinhoff, Aberdeen Angus Breeder.

W. J. Steinhoff, Platteville, Wis., has a herd of forty Aberdeen Angus cattle that are certainly a pleasure to see. That they are excellent animals is shown by their winnings at the 1913 fairs in Wisconsin. His herd won sweepstakes over all breeds at Mineral Point, Darlington, Platteville and Monroe and won six firsts and four seconds on nine head at Madison, Wis. They are principally of the Blackbird strain. For further information concerning this herd write W. J. Steinhoff, Platteville, Wis. Kindly mention this paper when writing.

Farmers' Short-horn Bulls.

With this issue of The Homestead, Pat Kelley, Friend, Neb., is starting an advertisement on page 38 in which he offers a few really good Short-horn bulls at farmers' prices. These bulls are all sired by Improver, a good bull and a good breeder. They are out of cows sired by the noted Scotch bull, Bapton Cruick, and Victoria's Prince. These bulls are well grown, but have never been pampered in any way, and will do well on the ordinary farm under farm care. They are good and strong and of good colors. Write Mr. Kelley at once and mention The Homestead when doing so.

Poland Chinas of the Expansion Kind.

M. G. Arnold bred the Poland China hog, Expansion, that was the means of establishing a new era in Poland China breeding in Nebraska. Mr. Arnold and his son advise us that they have now for sale a lot of fall and spring boars of the Expansion kind. The bunch includes the top of the pigs of spring farrow. They are the get of Orange Boy, he a son of the noted Big Orange. In order to make room $40 and $50 values will go at from $20 to $25. Buyers should come and see these pigs. They are guaranteed to be right and to be free from disease. See the advertisement on page 38 and address M. G. Arnold & Son, Strawberry Point, Iowa.

Hanks & Bishop's Durocs.

Hanks & Bishop, New London, Iowa, are offering to sell twenty head of good Proud Col. gilts out of Model Wonder sows. These gilts are of the large, growthy kind and of the type that make great brood sows. This firm also has fifty good, big, stretchy, smooth boar pigs of spring farrow sired by Model Wonder, Proud Col. and Wonder's Model. The winnings of Hanks & Bishop at the Iowa State Fair in the few years past should be sufficient evidence of the high quality of the hogs bred and offered for sale by them. If you want to buy a good herd boar or some gilts worth the money and bred along right lines, write them as per their advertisement on page 38.

Eakle's Durocs.

S. E. Eakle & Sons, Prophetstown, Ill., inform us that they have been having an excellent trade in Duroc Jersey boars this season. Their young boars have been coming along in nice shape and their litter by Cherry Chief is extra good. There are several extra good Disturber boars left and four sons of Lucy Wonder, the dam of Disturber, that would make herd boars. There is also an extra good litter by S. E.'s Premier Col. and out of an Ohio Chief sow. There are herd boars in all of the litter above mentioned and these can be purchased at reasonable prices when you consider the excellent breeding to be found in Mr. Eakle's herd. See page 47 and write him, mentioning The Homestead.

Stevenson's Chester Whites.

On page 46 of this week's Homestead, T. A. Stevenson, Shannon, City, Iowa, begins his Chester White advertisement and he is offering a splendid lot of boars for sale. Mr. Stevenson has been one of our reliable advertisers for a number of years and he not only sends out good things, but he always prices these at a figure that anybody can afford to buy. These are March and April boars and they are sired by Ben Hur 20329, a grandson of old Chicksaw Chief and Fancy Goods 20327, a boar that he has been using with much success in his herd. Mr. Stevenson has always kept a splendid lot of brood sows in his herd and while he has never been making a great deal of noise about them, he nevertheless has been producing a good line of stuff and he sells them at a reasonable figure. He also breeds Aberdeen Angus cattle and he is offering two good Blackbird bulls for sale. We will guarantee Homestead readers one thing, and that is, if they

NEXT WEEK'S SALE PROGRAM

Monday, October 6	Short-horns, Carey Cameron, Herman, Neb. Duroc Jerseys, Cary Cameron, Herman, Neb.
Tuesday, October 7	Duroc Jerseys, O. S. Larson, Logan, Iowa. Poland Chinas, W. H. Cooper, Hedrick, Iowa.
Wednesday, October 8	Duroc Jerseys, Wm. Reed, Rose Hill, Iowa. Poland Chinas, A. Kool, Cordova, Iowa.
Thursday, October 9	Duroc Jerseys, H. W. Lineweaver, South English, Iowa. Short-horns, Miller & Northy, Morley, Iowa. Poland Chinas, S. C. Wyckoff, Kellerton, Iowa.
Friday, October 10	Hampshire Swine, C. P. Paulsen, Fremont, Neb. Short-horns, Frank T. Pemberton, Iowa Falls, Iowa. Poland Chinas, Frank T. Pemberton, Iowa Falls, Iowa. Percheron Horses, Frank T. Pemberton, Iowa Falls, Iowa.
Saturday, October 11	Herefords, Gudgell & Simpson, Independence, Mo. Poland Chinas, Wigstone Bros., Red Oak, Iowa. Poland China's, Frank Pelzer, Atlantic, Iowa.

send Mr. Stevenson an order for one of those boars or one of those Angus bulls they will get a square deal and they will be satisfied with their purchase. When writing him kindly mention The Homestead.

Marmion's Poland Chinas.

B. F. Marmion, Farmington, Iowa, is advertising Big-Type Poland Chinas on page 45. He has sixteen spring boars left for sale; three of them are extra large and sired by Cox's Wonder, a son of Rood's Giant and out of a Long King dam. There are three by Big Knox. One of the dams is L.'s Lady Hutch by Grand Look, Jr., second dam by Big Hadley. Another good sow is Chief Jumbo by R.'s Chief, dam by Model Chief. Maud's Choice is another good sow sired by Charter's Oak Model out of a dam by Expansion Blue. Mr. Marmion has seven good sow pigs sired by A. Model, the 1912 Iowa champion and out of a dam by Blake's Best, second dam by Big Knox. Anyone in need of a good boar should write Mr. Marmion, kindly mentioning The Homestead.

Sweeney Automobile School.

The wonderful popularity of the automobile lends interest to the announcement of the Sweeney Automobile School which appears on page 18. This institution is training men in the handling of automobiles. The instruction includes running, repairing and caring for automobiles of all classes. So excellent have been the results that the management has recently been obliged to erect one of the largest and most completely equipped buildings of the kind in the country. The practical ruling most effectively fits any man of usual intelligence, for the work. The management has published an interesting postal sheet giving twenty-five views of this school. For other information write Sweeney Auto School, 1118 E. 15th St., Kansas City, Mo.

Stewart's Poland China Boars.

On page 38 Andy W. Stewart, Harlan, Iowa, begins his Poland China advertisement and he offers forty-five head of boars for sale. Among these are fifteen head of good fall boars sired by Big Victor, Blain's Exception and Mammoth Prospect. He offers thirty head of spring boars and these are sired by Panama Chief, his present herd boar. This hog won second prize at the Nebraska State Fair in 1911 in a class of fifty-nine and he is out of a daughter of Wade's Jumbo. All the boars that Mr. Stewart is offering for sale are out of sows that were vaccinated last fall. He is pricing spring boars from $20 up, and fall boars from $30 to $45. There is no reason why you cannot buy a good boar from Andy Stewart, and you get him at a reasonable price. These will not last long, so you had better send him an order at once.

Bode's Chester Whites.

With this issue of The Homestead, H. L. Bode, Friend, Neb., is starting an advertisement in which he offers the choice ones of the spring crop of Chester White boars to The Homestead readers at a liberal discount from the prices formerly charged for this class of stock. As the corn crop is an entire failure in his immediate section he will not hold his February sow sale as he had planned and his gilt crop will also be for sale at private treaty and they will be sold open or bred to good sires at the option of the purchaser. Homestead readers are well acquainted with Mr. Bode and the class of hogs he produces, and the writer would only add that it seems that now is the right time to lay in foundation stock of this sort. Kindly mention The Homestead and write Mr. Bode at once. See page 46.

Zellmer's Duroc Jersey Sale Postponed.

C. A. Zellmer, Atlantic, Iowa, wishes to announce an indefinite postponement of the sale of Duroc Jersey hogs which he had planned to hold October 4th. The new date will be given later. He will then offer seven good fall boars and a lot of spring boars, gilts and sows. At the Cass County Fair last week he showed Durocs and he got three firsts, five seconds and three thirds and all of these prize winners will be sold in the sale. He will sell The Crimson Queen, his first-prize yearling sow at the fair and she should be appreciated by those who attend the sale. He also sells his first and second-prize fall boars sired by King Carlos and his first, second and third-prize gilts. Our readers will be interested in this sale as it will include not only good hogs, but those which are immune by simultaneous treatment.

Glissman's Great Holstein Sale.

One of the largest sales of registered and high-grade Holstein-Friesians that has ever been held here in the West will be made by Henry C. Glissman, South Omaha, Neb., October 21st, when he will sell 140 head. Sixty-five of these will be high-grade cows coming fresh or with calves at side. There will be fifty head of heifers from one to two years of age and fifteen heifer calves. It will be one of the greatest opportunities that has ever been offered here in the West to buy high-grade Holstein-Friesian cows and heifers, and it certainly offers a great opportunity to farmers and dairymen to buy some splendid milk cows. He is also listing ten head of registered bulls, and these will all be of serviceable age. These Holsteins are all home raised and acclimated and they will be tested by state and federal authorities, and therefore car be shipped into any state in the Union. This is an important feature of this sale as there will be no question on the part of federal or state authorities. Trouble has been brought about by unscrupulous parties who have in the past sold cattle that failed to pass, and Mr. Glissman has arranged it so that there could not be any question regarding the cattle that he is selling and therefore will have both the state and federal authorities to pass upon them. It therefore makes this sale one of the most important Holstein sales that has ever been sold in any western state. Those of our readers who are going to want some good milk cows should by all means attend this sale. Write Mr. Glissman for further particulars regarding this sale and kindly mention The Homestead.

Boyer's Chester Whites.

B. M. Boyer & Sons, Farmington, Iowa, are advertising Chester White boars on page 46. It was in this herd that the 1,260-pound boar, Sweepstakes, 28006, was used and it was this firm that exhibited him at the Iowa State Fair where he won championship in 1912. They also owned Jumbo, a 1,210-pound boar. Both of these boars died in the herd, but considerable of their get is still in Mr. Boyer's possession. Messrs. Boyer have paid special attention to size and have been breeding the Big-Type Chester Whites. They ship these boars C. O. D. and prepay express charges which gives the buyer an opportunity to look over his pig before paying for the same. This is very fair on Messrs. Boyers' part and in this manner the buyer takes no chance. This firm will hold a sale of bred sows on February 10th. Write them your wants or send them your order, mentioning The Homestead.

Chas. W. Crosier's Chester Whites.

With this issue of this paper Chas. W. Crosier, Juniata, Neb., starts an advertisement in which he offers choice spring boars and also female stock. Mr. Crosier is one of the pioneer breeders of Chester Whites in Nebraska, and his satisfied patrons are scattered over many states. Good hogs have been his aim at all times and he has bought the best breeding stock that he could find and has always sold his stock at reasonable prices. He has been a constant advertiser in this paper for many years, and is well and favorable known to a great host of its readers. The writer called on Mr. Crosier a short time ago and we wish to say that he has a good lot of stock for the season's trade, and readers need not hesitate in sending orders for this stock. They will certainly be treated right and they will also get some very fine stock from Mr. Crosier. Nearly all the spring crop is sired by Harvey's Choice, one of the real good boars of Nebraska. They are out of daughters of many noted sires, including the champion, Plainview Choice, the champion, O. K. Winner, and a few other boars nearly as well known. Kindly notice the advertisement on page 46 and write Mr. Crosier for prices immediately.

Woodlawn Farm Holstein Sale.

One hundred and forty select Holsteins will be sold at public sale at Woodlawn Farm, Sterling, Ill., October 21st and 22d. This is the second annual offering from this breeding establishment, and Manager Williams has selected for the sale one of the strongest lots of Holsteins that has yet been offered at public sale in the middle West. The Woodlawn herd is one of the best bred working dairy cattle herds to be found, and those who attend the coming sale will be in no way disappointed in the offering. One hundred cows, thirty heifers and ten bulls are cataloged, and they are a lot of cattle rich in the blood of King Segis, the Korndykes, Hengerveld De Kol, Paul Beets, Aaggie Cornucopia Johanna Lad and other of the best strains known to the breed. Many of the cows in this sale have A. R. O. records, and they are all big producers, as Manager Williams has no use for a cow that cannot show a handsome profit on her keep by her work at the pail. Ten record daughters of Sir Netherland Cornucopia bred to Prince Hengerveld Segis, form one of the attractive portions of the offering, but there are numerous other high-class propositions listed. The farmer who desires to engage in the profitable production of milk will do well to attend this sale, inspect the offering of cattle and make a study of the methods in vogue on Woodlawn Farm, where the Holstein is found in the fullness of its producing worth. Any detailed mention of this sale and the animals cataloged, therefor is unnecessary. The offering must be seen to be fully appreciated, and the farmer or dairyman interested in bettering his farming and live stock operations who does not attend this sale will be blind to his best interests. The catalog tells the story and will be sent to any address upon application. Mention The Homestead and address Woodlawn Farm, Sterling, Ill., as per the advertisement on page 17.

Choice Chester White Boars.

Attention is called to the advertisement which appears in this issue of The Homestead in which J. V. Slepicka & Sons, Wilber, Neb., offer readers of this paper the choice of the spring crop of Chester White boars. These gentlemen maintain one of the very good herds of Nebraska. They have good blood lines and they grow their hogs in splendid fashion. Readers of The Homestead looking for something will not be disappointed by sending an order to these gentlemen. Most of the boars are sired by Grand View Chief by Humbert's Choice by Combination. A few are by I Am Winner by Combination. I Am Winner was the first prize under-six-months pig at the Nebraska State Fair in 1912 and he has proven himself a good sire. Slepicka & Sons have added another good boar to the herd when they purchased Grand View Chief this season. He was first-prize senior pig at the Nebraska State Fair this season. He was got by Chief Select by Chickasaw Chief 2d. When writing Slepicka & Sons, kindly mention The Homestead. See advertisement on page 46.

The Jones Polands.

On page 15 of this week's Homestead is shown an engraving of the famous Poland China boar, Jumbo The Great. This boar is at the head of the herd owned by Orville O. Jones, York, Neb., and is without question one of the greatest boars we have knowlege of. He is of immense size, smooth, neavy boned and good footed. He breeds well and Homestead readers will do well to write for prices on boars sired by this hog. Mr. Jones also breeds Short-horn cattle and has for sale a couple of bulls. Barred Rock cockerels of the very highest order are also for sale. Mention The Homestead and address as above at once.

Fred Swan's Large-Type Durocs.

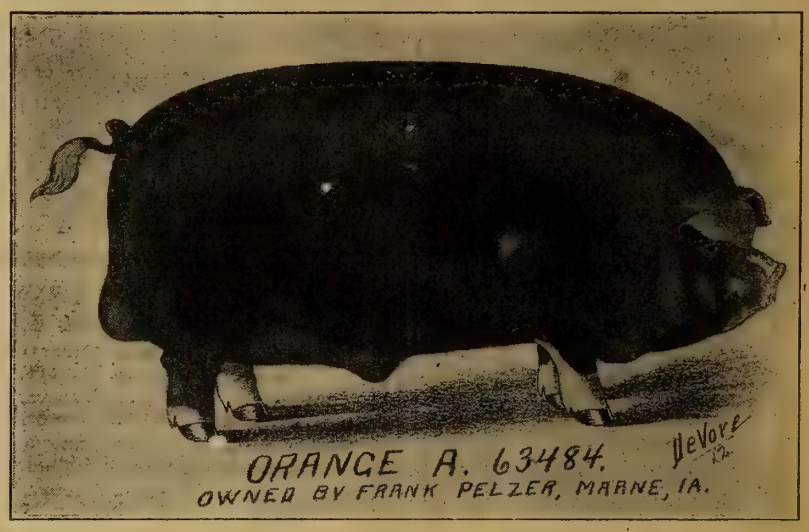
On October 17th, Fred Swan will make his fall sale at Missouri Valley, Iowa, and he will offer fifty head of the largest Duroc Jerseys that will go through a sale ring this season. Fred Swan is one of the men that gets them large and the breeders who are looking for size and quality will all have to take off their hats to him. He is one of the best feeders and caretakers today in western Iowa and he has been a buyer of the very best sows and boars that have been sold in late years. You will therefore realize that he has a line of breeding that any of our best breeders can use and no man will be disappointed with his offering when they see it. He will sell forty head of spring boars in this sale and they are sired by such well-known boars as Col. Gano, Golden Gano, Lafollette's Improver, High Ridge Muncie and Proud Iowa Chief. He formerly used a boar called King Edward at the head of his herd and after this boar was gone it was discovered what a breeder he was. However, he left on his farm a class of sows that will seldom be seen in one herd. In fact, he has daughters of this boar that had they been shown this fall at the state fairs would have won and this statement is made with a knowledge of those sows that have been shown. He is selling three splendid Col. Gano boars in this sale and they are out of O. R. Fine Sow, and she is regarded as one of the best sows in western Iowa. This sow was the top of the John Tupper sale two years ago and she sold at that time for $300 or more. You will therefore know she is good and these boars are sired by I Am Crimson Wonder 2d, the grand champion boar and these are very good with plenty of size and quality and are just the kind that will make good herd boars. Five good boars are sired by Echo's Crimson Wonder and these are very choice. In fact, he has a whole lot of boars in this sale

FRANK PELZER'S SALE

BIG-TYPE POLAND CHINAS

AT THE SWAB FEED BARN

ATLANTIC, IOWA, OCT. 11, '13



50 HEAD: 30 BOARS, 20 SOWS 50

I am selling 15 big, rugged fall boars and 15 of my very choicest spring boars. These are sired by Orange A, one of the greatest sons of Big Orange now living, and one of the largest boars of his age in the West. Also by Tom Keene, a son of the prize-winning boar Big Tom. Ten head of good fall Sows and a lot of choice spring gilts. Write for my catalog at once. Address

FRANK PELZER - - - MARNE, IOWA

Col. N. G. Kraschel, Auct. Mention Homestead when writing for catalog.

The illustration shown herewith is that of a most excellent Hampshire brood sow. She is the sort that have raised the boars that are being offered by A. D. Jones, Litchfield, Neb. Mr. Jones wishes to close out his boars at an early date and is making very low prices to move them. See advertisment on page 44.

SALE OF IMPORTED AND AMERICAN BRED PERCHERONS

MORTON, ILLINOIS, MONDAY, OCTOBER 20, 1913

40 Head---7 Imported Mares---11 Studs and Stud Colts

NO MORE reliable lot of Percherons will be offered this season than will be represented in this sale. The seven imported mares are five to seven years old, and all bred. Ten American mares, three years and up, are listed, and they are all bred, while there are three two-year-old fillies, five yearling fillies and four weanlings. The mares are a working lot, doing all the labor on an 1,100-acre farm, while last year from twenty-one mares bred we secured eighteen colts. With the exception of the seven imported mares and one American-bred filly every animal in this sale was produced on our farm, and we know they are right in every way. In this sale is the get of outstanding sires, including a large number by our herd stallion, Vermouth, one of the most noted Percheron stallions of recent years. SIX YEARLING STUDS, all by Vermouth, and four suckers, three by Vermouth and one by Rabelais, comprise the stallion portion of the offering, and among them will be found many outstanding propositions. No matter what your want may be in the way of reliable Percherons, you can find what you need at this sale, and can secure it at your own value. The animals listed will suit you, and they are reliable in every way, bred along the strongest Percheron lines and fit representatives of that great breed of draft horses. Write today for the catalog, which tells the story. Mention The Homestead and address

ROBISON BROS. - - - - MORTON, ILLINOIS

Colonels Jones, Reppert, Seeley and Carius, auctioneers. Sale at farm, five miles east of Morton, on the line of the Illinois Traction Systems. Cars each hour from Bloomington, Springfield and Peoria. Get off at Robison Road, which is right at the farm.

that are going to look good to any man who might be on the market for a good big boar this fall. Write Mr. Swan, Missouri Valley, Iowa, at once for a copy of his catalog and then mention The Homestead. M. T. White will represent The Homestead at this sale and will care for any bids sent in his care. See this page.

Hall Offers Short-horn Herd.

With this issue of The Homestead, F. M. Hall, Friend, Neb., starts an advertisement on page 38 in which he offers Homestead readers an exceptional opportunity to get started in the Short-horn business right. He is offering ten head, nine females and a bull, and they would make an ideal foundation for some one wishing to start and start right. The bull is an excellent Scotch bull, pure red and a nice individual. He is sired by Imp. Strowan Star and is out of the imported cow, Winifred 4th by the great Scottish Archer. This bull is the right kind, and will be worth a great share of what Mr. Hall will ask for the whole herd. We will not describe these cattle in detail, but we will say that they are good, we have seen them, and we would say to anyone looking for a bunch of stuff to get in touch with Mr. Hall at once, as a stockman will buy this bunch, once he sees them. Mention The Homestead when you write, or better, get on the train and see them.

Cooper's Big-Type Poland Sale.

On Tuesday, October 7th, W. H. Cooper, Hedrick, Iowa, will sell a high class lot of Big-Type Poland China boars and gilts at public auction. This is the most select lot of boars and gilts that Mr. Cooper has ever offered in a fall sale. They are the pick of over 200 head. They are sired by Big Bone 2d, Chief Leader, Big Expansion, Ideal Chief and other noted boars. Mr. Cooper has one of the best herds of sows to be found anywhere when size and quality are taken into consideration. He has sows weighing from 600 to 800 pounds and they are smooth with this immense size. Mr. Cooper does business in a straightforward manner and buyers need not be afraid to place confidence in what he says. His guarantee is as strong as it is possible to make it. If you cannot attend the sale, send a bid to Carlos C. Palmer, Homestead representative, in care of Mr. Cooper, and it will receive careful treatment. See page 45 and write for catalog, mentioning The Homestead.

Williamsburg Angus Sale.

John Cash, Jr., announces a sale of Aberdeen Angus cattle to take place in the Williamsburg, Iowa, sale pavilion on October 16th. William Cash, Williamsburg, Iowa, and P. J. Donohoe, Holbrook, Iowa, are contributing a few choice bulls and females in order to make the fifty head. John Cash, Jr., had at the head of his herd for some time Erwin C., the undefeated grand champion bull of 1913 and he left a number of excellent cattle in the herd. In the herds contributing to this sale the famous Black Woodlawn was used extensively. Many of his daughters will be found in the sale and they have always been in demand where the value of Aberdeen Angus cattle is known. Some daughters of the famous show and breeding bull Black King of Homedale 2d will be sold and this bull must be rated as one of the really good sires of the breed. The cows will be bred to Black Eagle C., by Black Woodlawn, Eran C., by Erwin C., Black King of Homedale and other bulls equally well bred. Insofar as breeding is concerned an undesirable pedigree could not be found in the breeding of the three herds contributing to this sale. The men and the cattle that they have produced are well and favorably known wherever Aberdeen Angus cattle are kept. Their methods of doing business have been open and fair to their patrons. Considering the dearth of good breeding cattle for sale we believe that a more opportune time to engage in the beef cattle business has not presented itself in many years. Pure-bred beef cattle are sure to advance in price very rapidly during the next twelve months and the man who buys good beef cattle at current prices is sure to make an excellent profit on his investment. No better place could be selected than this sale for the man who wishes to make his initial purchase of pure-bred cattle or add good breeding stock to his present herd. The breeding is right, the cattle are right and the men selling them are the kind that stand behind their goods. Every man interested in this sale should write at once to John Cash, Jr., for a catalog, mentioning The Homestead. Williamsburg is located on the Marion-Ottumwa Branch of the C. M. & St. Paul railroad. See page 38.

Foss' Duroc Sale.

The writer called on Theo. Foss, Sterling, Neb., a few days ago and looked over the Durocs that will be sold in the sale which Mr. Foss will make on October 16th. Mr. Foss has been breeding Duroc Jerseys for a few years and is getting a right good lot of sows on the place and has one of the best Prince of Col. boars we know of. He is Prince of Col. 2d and is the sire of some of the stuff that goes in this sale. There are two boars by Ohio Col. and out of a sow sired by Crimson Wonder 3d that we think are very choice. One of these pigs is extra good and a real herd-heading sort of boar for one of the leading herds. Another nice boar is a late pig by Model Top, a son of Golden Model. Model Top is a boar that is rated very highly in Kansas and Missouri and has sired a lot of extra good stuff. This boar will do some one some good. A yearling boar sired by the champion, Valley King, is also included in the sale. He is one of the real good Valley King boars that we know of. A couple of boars by High Col. are offered and they are fairly good. Two boars by Cherry Chief and out of a sow sired by Jack's Friend will be included. One of these boars would do a good breeder a lot of good. The gilts that will be offered are extra good, and should be looked after by those in need of a few sows. They will make some one some money if rightly handled. We believe that this season will be a good time to buy hogs, and those that cannot attend may send buying orders to J. C. Price, field man for The Homestead. Send all letters to J. C. Price in care of Theo. Foss, Sterling, Neb. Address Mr. Foss for the catalogs which are ready to send. Mention The Homestead when you write. See this page.

Botts' Short-horn Dispersion.

R. W. Botts will disperse his well-known Elms herd of Short-horn cattle at his farm near Plymouth, Ill., Thursday, October 16th. Mr. Botts has been actively engaged in the breeding of Short-horns for a quarter of a century and his decision to disperse his herd is brought about through a desire to lay aside some of the cares of the business and also owing to the difficulty experienced in securing help. There will be forty head in the sale, a lot of well-bred honest cattle, presented by an honest breeder and an offering that should appeal to the buying public. It is practically an all-Scotch lot of cattle, the big majority of which were bred by Mr. Botts and they will beat their own recommendation sale day. There are twenty-eight females in the sale, nineteen of them bred to pride of Linwood or Village Magnet, and when we state that every cow in the Botts herd produced a calf this year you will realize the breeding worth of these cows. Thirteen bulls are listed, all with attractive Scotch pedigrees, and among them are both head-heading and steer-getting material. Village Magnet by Bapton Magnet is a white two year old out of a Cruickshank Village Blossom dam by Golden Crown. He is well enough bred to go into any herd and his individual merit will please the critical buyer. Progress by Pride of Linwood, dam by Baron Golddust 3d, is a smooth roan two year old and well worthy of attention sale day. Mr. Botts bought the dam of this bull as a yearling for $180, has sold $1,250 worth of her produce and has nine descendants in the sale. This speaks highly for the prolificy of the herd. Elm's Diamond by Pride of Linwood, dam by Imp. Pennan Commander, is a smooth yearling, thick, short legged, with a good head and Lavender Gloster, by Pride of Linwood, out of a Lavender dam, is an extra well-turned calf of good lines. There are some other good yearlings in the sale and half a dozen toppy calves, all by Pride of Linwood and out of extra good Scotch cows. Mr. Botts is presenting an excellent offering and is deserving of the best kind of patronage sale day. In addition to

Fred Swan's Sale Big-Type

DUROC JERSEYS

Missouri Valley, Iowa

FRIDAY, OCTOBER 17,'13

50 Head---40 Spring Boars, 5 Fall Boars, 5 Sows. 50

THREE Col. Gano boars, out of O. R. Fine sow. These are extra choice. Also boars by I Am Crimson Wonder 2d, Echo's Crimson Wonder, Golden Gano, Lafollette's Improver, High Ridge Muncie and Proud Iowa Chief. If you are looking for the big-type Durocs come to my sale. Catalog now ready. Write for it. F. F. Luther, auctioneer. M. T. White, field man for The Homestead. Address

FRED SWAN, MISSOURI VALLEY, IOWA

H. W. LINEWEAVER'S SEVENTH ANNUAL

Sale Choicely Bred Duroc Jerseys

At Farm, 2 Miles East of

South English, Iowa, Thursday, Oct. 9, 13

45 HEAD, including one of my herd boars, H. & B.'s Ohio Chief, the greatest Protection-bred boar living. There will be five choice boars and five choice gilts of March and April farrow by H. & B.'s Ohio Chief. Their dams by Muncie Chief, Mayor Jr., Wonder and Col. Tientsin, others by Cherry Chief, Model Wonder, Golden Model 30th and a son of Chief Select. If you are looking for quality we have got it. We have some very choice individuals to sell and desire your presence at this sale. Write for catalog and mention that you saw my advertisement in The Homestead. Send bids to Carlos C. Palmer, in my care or to either of the auctioneers. This sale follows Wm. Reed's sale at Rose Hill, Iowa, which is only thirty miles east. N. G. Kraschel and J. L. McIlrath, auctioneers.

H. W. LINEWEAVER, SOUTH ENGLISH, IOWA

DUROC JERSEYS AND POLLED DURHAMS

At Auction From the Herd of Theo. Foss

Sterling, Nebraska, October 16, 1913

40 HEAD of Durocs, including a choice lot of herd-heading and farmers' boars and some extra choice gilts. The offering is strong in the blood of Prince of Col. 2d, Ohio Col., Select Chief, High Col., Cherry Chief and a few others. Some of these boars are absolutely toppy.

WILL SELL SIX POLLED DURHAMS and they include one four-year-old bull, extra good, one yearling bull and four cows and one calf at foot. Cols. Putman, Russell and Roberts, auctioneers. J. C. Price, field man for The Homestead. For catalog address

THEO. FOSS - STERLING, NEBRASKA

When Writing to Advertisers Please Mention The Homestead

the cattle of Mr. Botts nine head are contributed by W. B. Rigg, Mt. Sterling, Ill. Look up the advertisement of the sale on page 41 and send for a copy of the catalog to R. W. Botts, Plymouth, Ill., mentioning The Homestead when you write.

Duroc Gilt Bargains.

With the widespread shortage in meat-producing animals and the consequent high prices that are bound to prevail, it would seem that the offer of Wm. Retzlaff that will be found on page 47 of The Homestead should be of special interest. In his advertisement Mr. Retzlaff states that he has a big lot of early and late spring gilts, also some fall gilts and they go at from $15 to $30 per head, according to age and excellence. This stock is all of the very best of breeding, mostly the get of Sensation Again, a first-prize winner at Lincoln this season. They are all from sows of choicest blood lines, including daughters of the great Lincoln Wonder, Watt's Model, Golden Model 5th, A Crimson Wonder and a few others as well known. Mr. Retzlaff has a very fine spring boar and a fine Col. bred aged boar that he can breed this stuff to and for a small advance over the regular price. If interested mention The Homestead and write Mr. Retzlaff at once. Address Wm. Retzlaff, Bennett, Neb.

Pfanders' Boar Bargains.

On page 37 J. W. Pfander & Sons, Clarinda, Iowa, advertise thirty head of March and April boars for sale sired by their noted big-type boars, King of Wonders and Big Ben, and these pigs are all right and are well worth the money. Their boar, King of Wonders, is one of the most sensational big-type Poland China boars of the year and he is proving himself a great breeder. He weighed 765 pounds at eighteen months. They have an April boar sired by King of Wonders and out of their 900-pound sow, King Giantess 1st, that is an outstanding good one. They want to use this boar on a few of their sows and will let him go about the middle of November. He will make a great herd boar for somebody. They have seven March boars sired by King of Wonders and out of a Mouw-bred sow that are extra good and they are offering these at $50 each. Then there is a litter of five boars by Big Ben and out of Wray's Giantess. It will be remembered that Big Ben was the sire of the two spring boars that sold in their sale for $375 and $335 last August. These are also extra good boars and the price of these is $50 each. They have other boars by these two sires, also by Big Jumbo 2d and Big Defender that they are pricing at from $30 to $50. There are four Big Defender boars out of a sow called Patsy 4th that topped the Caverly sale at $250 and these will make good herd boars. If you will send J. W. Pfander & Son your order at once and let them pick you a boar out of the bunch you will be satisfied, and you will eventually have a herd boar that you will be proud of and will make you money. They unquestionally have one of the greatest herds of big-type Poland Chinas in the West. Write them at once and kindly mention The Homestead.

Pelzer's Poland China Sale.

On Saturday, October 11th, at the Swab feed barn, Atlantic, Iowa, Frank Pelzer, Marne, Iowa, will sell a draft of fifty of his large-type Poland Chinas and he is one of the breeders who never fails to put up a splendid offering. He is selling thirty head of fall and spring boars in this sale and twenty head of sows. Mr. Pelzer has been a good breeder and he has always had a good line of breeding, coupled with the size, and in his time has sent out a splendid lot of hogs. He formerly owned the large boar, Sampson, and he used him for a number of years at the head of his herd. This boar was a son of old Pawnee Lad and he was out of old Anna Price 2d. He did a lot for Mr. Pelzer and his herd and he afterward sold him to go to the head of the Lingford herd over in Nebraska. Many of the best brood sows in the Pelzer herd were sired by this boar and he certainly has had some good ones. Later on he secured the great young boar, Orange A., a son of Big Orange and out of Anna X. by Big Ex and he is one of the largest of all the boars today in the state of his age. He has the size and the bone and he has plenty of quality for a boar of his scale. Mr. Pelzer intends to make this boar beat the 1,000-pound mark and he can very easily do it. Many of the young things that he will offer in this sale will be sired by this boar. To begin with he is selling fifteen head of large, big-boned, rugged fall boars and these are a good lot throughout. They are all sired by Tom Keene, a son of the first-prize Nebraska State Fair boar, Big Tom, that he has used with success in his herd. There are boars in this bunch that will make 1,000-pound boars if they fall into good hands and are grown out. They have all kinds of stretch to them, plenty of bone and every one in the lot has a good-arched back. The fifteen spring boars that he will sell are all sired by Orange A., and are out of dams by Sampson and Prince Victor, the latter boar being a son of Charlie Lonergan's Big Victor. He is selling ten head of fall sows that are the same breeding as the fall boars and a few of his choicest gilts. He is selling a splendid spring boar sired by Orange A., and out of a sow he calls Silver Tip, and she is one of his best daughters of Sampson. Another good spring boar is sired by the same boar and he is out of a sow called Ruberta and she is also a daughter of Sampson. Then there are a couple of good boars by Tom Keene out of a sow called Delight. Mr. Pelzer is selling a splendid lot of large-type Poland China boars and sows and it is going to be a sale where you can buy some excellent bargains as he has the blood that they are all after and he has the size that they all want. Write Frank Pelzer, Marne, Iowa, for a copy of his catalog and remember that his sale will be made at Atlantic, Iowa, at the Swab feed barn. Col. Kraschel will be the auctioneer and he will care for any bids sent him in care of Mr. Pelzer. See page 34.

Steele's Immune Duroc Boars.

On page 47 C. R. and R. W. Steele, Ireton, Iowa, are advertising sixty head of Duroc Jersey boars for sale and these are all immune and are ready to ship. They have all been vaccinated, simply because they think that the buyers are wanting immune boars and they wanted to be in position to fill their orders. At the Interstate Fair, week before last, they won first prize on their six-months-old boar pig in one of the hottest classes in that show and this is the first time they have ever been out at the fairs showing Durocs. The most of these boars are sired by Colonel Wonder, a son of King Col., and he in turn is a son of the great Carl's Col. His dam is Lady Tientsin by Tientsin II, so you will readily see he is bred in the purple and has every right to be a good sire. These boars they are offering are in fine shape and they are ready to ship at any time. They are pricing them at $35 to $50 and will be sent on approval. They will satisfy you if you want a good boar and you can depend on it they will send you one that you will like. When writing them kindly mention The Homestead.

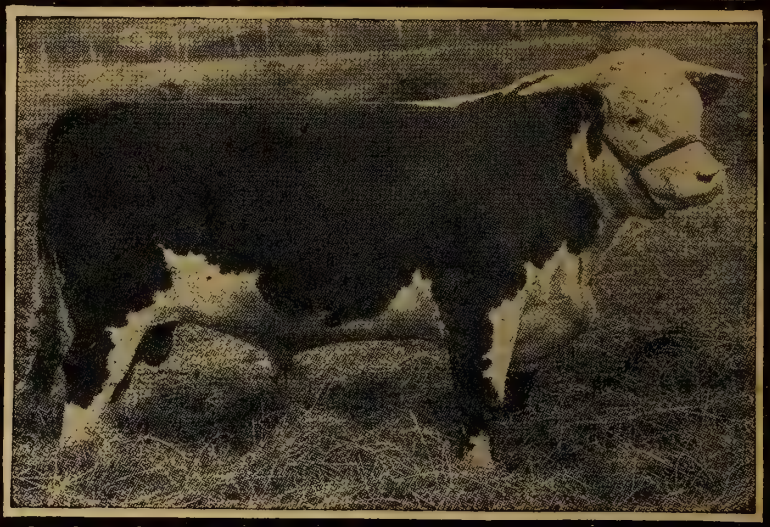
McMaster's Short-horn Sale.

Forty head of strictly good Short-horn cattle will be sold at Altona, Ill., Wednesday, October 15th, by C. J. McMaster. This is the fourth annual sale from this herd and while there have been good offerings in the past, the cattle listed for the coming sale are the best Mr. McMaster has yet sent forward. Some remarkable cows are cataloged, animals that would add strength to any herd. Mr. McMaster has never let price stand in his way when he wanted anything in the Short-horn line and as a consequence he has today an exceedingly strong herd, both as to breeding and individual merit. For the coming sale there are cataloged daughters of Whitehall Sultan, Village Silverdale, Nonpareil Crown, Masterpiece, Avondale, Lord Lenten, Maxwalton Dale and other noted sires, representatives of the Rosewood, Marr Clara, Augusta, Secret, Nonpareil and other popular tribes, the lot forming a gilt-edged collection in every way. Few of these cows sell with calves at foot by such sires as Browndale Sultan, Roan Sultan, Silverdale, Masterpiece and other bulls of equal merit. It is an opportunity for buyers to get the best Scotch blood known to the herd book, backed up by the strongest of individual merit in the animal. Five bulls are listed, including Glenview Dale 4th, a red yearling by Browndale Sultan that should be in strong demand sale day. It is a pleasure to recommend this lot of cattle to readers of The Homestead. They will bear out anything that may be said for them. Besides, they come from the herd of one of the most reliable men engaged in breeding Short-horns and a high-class gentleman, as well. Both Mr. McMaster and his cattle are worthy of the utmost consideration by the buying public. Catalogs for this event can be secured by addressing C. J. McMaster, Altona, Ill., as per the advertisement on page 41. Please mention The Homestead when you write.

Wigstone Bros.' Big Polands.

One of the strictly good offerings of strictly large-type Poland Chinas that will be sent through a sale ring this fall will be that of Wigstone Bros., who sell at Red Oak, Iowa, on October 11th. These boys breed the larger strains of Poland Chinas, and yet they have had quality sufficient that they were able to land several of the best ribbons at the Iowa State Fair a year or more ago. Their present herd boar is the great Chief Price Again 2d, and here is what they have to say for him in their catalog: "This great big-type boar was, to use a society phrase, 'brought out' at last year's Iowa State Fair, and he was the most popular 'debutante' there, some under thirty months old and weighed 1,024. He won third prize in a grand showing of extra big ones. This great boar comes by his size and quality through a line of ancestry noted for this, and is no sport or freak, but a big boar, bred big, a quality boar out of like ancestry. His sire preceded him by two years to the same fair and there won fourth and created quite a sensation, instantly putting him on the map as one of the really great big-type boars of his time. The full brother of Chief Price Again 2d won first at Iowa and went on to Nebraska and won grand championship honors there. Chief Price Again 2d was, when shown, not in show flesh, but in good breeding form only, and there was ample room for a few hundred pounds more weight without overdoing him any. He is very smooth, without a wrinkle, has very fine head, well placed ear, back well arched, is long and deep in body, absolutely smooth in shoulders, even in side and bottom lines, well marked, has immense bone and is perfect on feet. This boar has sired a lot of pigs since his arrival in our herd, that for size and smoothness have few equals. In fact, we will sell in our sale some of the largest spring gilts that we have ever seen go through a sale ring, sired by him; also spring boars that look big enough to make 1,000 pounds at maturity. Why should they not be large, sired by the biggest boar for age that is in service today in the corn belt?" Another good boar that they used in their herd was Big Jones 3d, and there is quite a bit of his get in the sale. The spring boar No. 1 of catalog is a wonderfully large and good spring boar, and he has every right to go to head some good herd. He is a son of Chief Price Again out of their great sow Giantess D., and few better spring boars will be offered this fall. Two good spring gilts out of this same litter will also be offered and they are very choice. Two good spring boars sired by Big Jones 3d and out of another one of their great sows Mammoth Lady will also be attractive and these will make excellent herd boars. Another good Chief Price Again 2d litter out of Miss Peerless is also very choice. This litter is wonderfully growthy and have

MODEL HEREFORDS
CHAMPIONSHIP WINNERS
At Auction October 22, 1913
Harris, Missouri
Thirty Bulls Forty Females



Gay Lad 9th, the Greatest Son of the Grand Champion, Gay Lad 6th.

TAKE our judgment for it—now is the time to buy. Make up your mind to buy good ones—the kind that bring higher returns on the money invested. That's what you want and that's what we are offering you. BUY NOW.

The thirty bulls in this offering are a grand bunch. Every one a good one. Such bulls as Gay Lad 9th, Gay Lad 12th, Gay Lad 13th, Repeater 12th and Repeater 20th will be sold. Show bulls as well as breeding bulls; bulls for all uses. They will make good anywhere they go. You can't help but like them because they are of the proper sort. About twenty of them are sired by our grand champion bulls, Repeater, Gay Lad 6th and Prince Perfection. I consider this the best bunch of bulls ever offered by the "MODEL FARM."

The forty females are a good, strong, even bunch. They have all of their usefulness before them. Just the kind for you. They will be offered in purely breeding condition with the exception of three or four show heifers.

Every one is safe in calf to our grand champion bulls, Repeater, Gay Lad 6th and their sons

This adds untold value. If you want heifers of the big, strong, matronly type, bred to these great sires—BUY NOW.

We want you to come to this sale. We want you to come whether you want to buy anything or not. We want to entertain you by showing you good cattle. We want to make this a day when all good breeders can get together. We want you as our guest. We are expecting you. Mail bids can be handled by any of the paper men or auctioneers. Write at once for catalog and any information you might want. Address Box C,

O. Harris & Sons, Harris, Sullivan County, Mo.

Cols. Reppert, Graham and Nelson, Auctioneers.

CLOSING OUT SALE
40 SHORT-HORNS---40
AND
50 POLAND CHINAS---50
at Gilman, Iowa, Oct. 16, 1913

CATTLE straight Scotch and Scotch topped. Baron Surmise 299827, one of the best breeding bulls in the state included in the sale. Some good young herd bulls. The hogs are all double treated and CHOLERA IMMUNE. Herd sows, Fall yearlings and spring pigs all go. No better Big Type breeding. Get the catalog.

F. W. AKERS - - LAUREL, IOWA

J. L. McILRATH, Auctioneer

MINNICK & NANSEL'S SALE OF POLAND CHINAS
AT KIEL'S BARN, COUNCIL BLUFFS, IOWA, OCTOBER 17, 1913

50 Head of Boars, Sows, Gilts, 50

WE are selling a splendid lot of well bred big-type Polands sired by **Big Victor, Big Tom, Big Omaha, I Am Big Too, Big John, L's Quality** and **Metal Top.** If you are wanting bargains come to our sale. Catalog ready. Write for it. Col. N. G. Kraschel, auct.

MINNICK & NANSEL - - COUNCIL BLUFFS, IOWA

Short-horn, Percheron, Poland China Dispersion

At the Farm Near

Iowa Falls, Ia., Friday, October 10, 1913

50 Short-horns, 12 Percherons, 50 Poland Chinas

The Short-horns are an exceptionally well-bred lot, 35 of them being pure Scotch and the balance are Scotch topped. The two herd bulls, Snowflake and Favorite Goods, are good propositions. The females are a producing lot and have calves to show for their usefulness.

The Percherons include the great imported stallion, Hihi, and some imported and American bred mares.

The Poland Chinas are a good, big, heavy-boned, growthy lot. Nearly all are fall yearling boars and sows and are the kind that make money. Write me for a catalog, mentioning The Homestead.

FRANK T. PEMBERTON - - - **IOWA FALLS, IOWA**

AUCTIONEERS: H. S. DUNCAN, W. H. COOPER

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $375 and $335 spring boars in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 700 and 800 pounds. We want to sell these boars and we are pricing them at from: **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - **CLARINDA, IOWA**

all kinds of stretch to them. Besides the boars these boys are selling they are also listing a line of sows and gilts that will be hard to beat. They are cataloging some of the best sows that will be offered in a public sale this fall and you will say so when you go to their sale and see them. Their catalog is an unusually interesting one and it will be sent for the asking. When writing for it kindly mention The Homestead. M. T. White will represent this paper at the sale and will care for any bids sent in his care. See advertisement on page 44.

A Great Sale of Polled Durhams and Short-horns.

On October 15th, at Ord, Neb., there will be held a sale of Polled Durham and Short-horn cattle that should be of more than passing interest to nearly all stockmen throughout the central West. The beef cattle situation is one that is of real concern to the great majority of people throughout the country, for at no time in the history of America, or, in fact, in the world in the last half century has there been such a shortage in meat-producing animals as there is today. This condition has been growing annually more serious, but the fact that breeding stock, cows and calves, were being sent to market in great numbers, led many to think that there was still a big lot of cattle in the country, for receipts kept up fairly well. Then, too, the last three or four years have been very dry over a great part of the cattle-producing country of America, and the same condition existed in the Argentine and other beef-producing countries until the net result stands today as well nigh a meat famine. All classes of labor are well paid, and an appetite for meat has been created as never before, and to satisfy that appetite is going to take more cattle at greatly increased prices. With these prospects in view, these facts to consider, it does seem that those that are so situated that they can handle a few cattle, had better get them while they may be had at reasonable prices. In the sale that will be made at Ord, Neb., on October 15th, Walker Bros. will sell near fifty head of as choice Polled Durhams as will be found anywhere in the middle West. Their herd is the largest in the state and surely full of choice cattle. In making this sale they are selling all of their excellent young bulls, and dividing the best things in the female line with the buyers. A roan yearling bull by Cupbearer Prize and out of Hero Lady by Roan Hero is a bull that should be sought by the best breeders. He is a herd header of the right kind. Another nearly as good, would be liked better by some, is by Cupbearer Prize and out of Miss Charming, a winner of the blues at all the leading state fairs a couple of years ago. A red by Golden Hero Jr., and out of Queen Mabel, the grand champion cow of Nebraska in 1911, is also included, and to those looking for a red bull we will say he is the one that will please. A grand lot of choicely bred young females, stock of good ages, and of splendid thrift are offered. Taken as a whole, we believe it will average as good as any offering sold in the central West in years, if ever. You must see them to appreciate them. The Short-horns comprise the entire herd owned by L. B. Branson, Ord, Neb. He is making a change in his business, hence this sale. These cows are all big, rugged stock. They come of excellent families, and are the sort that will appeal to those looking for good beef material, although they also come of families that have been famed for their milking qualities. Some twenty-five of these cows will have calves at foot, a few are near calving and all of breeding age have been bred to good bulls. We will say more about these Short-horns next week, or if you will apply to Walker Bros., Ord, Neb., they will send you the catalog which gives many details of the offering. When writing, kindly mention The Homestead. See this page.

Akers' Dispersion of Short-horns and Polands.

F. W. Akers, Laurel, Iowa, will disperse his entire herd of Short-horn cattle and Poland China hogs on October 16th. There will be forty Short-horns and fifty Poland Chinas. Part of the Short-horns are of Scotch breeding and included in the sale is a seven-year-old herd bull, Baron Surmise by Gloster Baron and out of the Cruickshank Secret cow, Sunlight by Bapton Admiral. He has proven a very sure breeder and a sire of merit. All cows of breeding age will be safe in calf to him. He would be a good proposition for someone desirous of purchasing a tried herd bull. Lady Lavender 6th is an eight-year-old daughter of Goodwin and out of Lady Lavender 4th by Hero's Knight. Scottish Lady 3d is a six-year-old Secret cow by Lord Missie. Miss Butterfly is sired by Nonpareil King's Champion and out of a dam by Sultan. She is of the Scotch Dorothy family. The Poland Chinas include tried sows, fall yearlings and spring pigs. Everything sells in this sale as Mr. Akers is leaving the state and must dispose of all of his live stock. They have all been given the double treatment and are immune from cholera. This item alone is a big consideration in purchasing pure-bred breeding swine. Mr. Akers has been breeding Poland Chinas for fourteen years and his hogs have been winners at the Iowa State Fair for several years. If interested write for catalog mentioning The Homestead. See page 36.

American Royal Hereford Sale.

The American Royal Hereford sale to be held Thursday, October 9th, in the fine stock pavilion at the Kansas City Stock Yards, will afford prospective buyers one of the best opportunities they have had in years to purchase at their own price, some of the very best cattle that the breed has ever produced. The consignment this year is from nineteen of the leading herds of America, representing the very best of breeding, and as individuals, a lot of cattle that would be difficult to duplicate. Twenty-seven young bulls, all of serviceable age, will be offered, among which will be found several of the best show and high-class herd bull prospects that have ever been offered at public sale. They represent years of the most skillful breeding and mating by the leading breeders of America, and it will be a rare opportunity for purchasers. The cows and heifers are the tops of the herds they represent. As individuals, they will suit the most critical judges and their breeding cannot be faulted by the most discriminating breeder. The fact that this offering is made up from the tops of nineteen of the best herds in America, is itself evidence of the class of cattle that will be offered, and of the exceptional opportunity that it will afford prospective buyers to compare consignments from these various herds that it would take hundreds of miles of travel and many days of time to see, if the herds were visited at home. The entire offering will be tubercular tested before the sale and the future usefulness of each lot is fully guaranteed and most carefully inspected both as to breeding and individual merit of the entire offering represented by the following well-known herds: J. C. Allen, Bedford, Iowa; W. N. Collier, Fulton, Mo.; J. M. Curtice, Kansas City, Mo.; W. H. Curtice, Eminence, Ky.; W. A. Dallmeyer, Jefferson City, Mo.; Jas. A. Funkhouser, Plattsburg, Mo.; Jas. A. Gibson, Odessa, Mo.; Giltner Bros., Eminence, Ky.; Wallace & E. G. Good, Grandview, Mo.; Gudgell & Simpson, Independence, Mo.; Robt. H. Hazlett, Eldorado, Kan.; Wm. Hutcheon, Bolckow, Mo.; Jones Bros., Council Grove, Kan.; Jas. E. Logan, Kansas City, Mo.; Luce & Moxley, Shelbyville, Ky.; E. P. Pendleton, Princeton, Kan.; J. C. Robison & Son, Evansville, Wis.; Robt. A. Steel, Richland, Kan.; J. H. & J. W. Van Natta, Lafayette, Ind. The sale will begin promptly at one o'clock, Thursday, October 9th, and you are most cordially welcome to attend.

100 HEAD 100
POLLED DURHAMS AND SHORT-HORNS

At Auction in Sale Pavilion at

ORD, NEBRASKA, WEDNESDAY, OCT. 15, 1913

In this sale will be offered about fifty head of Double Standard Polled Durhams from the herd of Walker Bros. Ord, Neb. These cattle comprise absolutely the best lot of stock that has gone in a western sale ring in years. They are of the very highest order as to individuals and all of excellent pedigree. All of desirable ages and in the best of thrift. The great show and breeding bulls, Cupbearer Prize, Splendor, Golden Hero Jr., Roan Hero and a few others are represented. The Short-horns include the entire herd of L. B. Branson, Ord, Neb., and are a grand lot of choice beef producers. They carry the best blood of the breed and present an extraordinary chance to get a good foundation of strictly meritorious beef producing cattle. There will be eleven choice bulls in all, and those searching for herd-heading material, of either breed, will find them here. Trains leave Grand Island at 7:00 a. m. Arrive Ord at 10:00 a. m. Leave Ord, 5:00 p. m., and arrive Grand Island 8:00 p. m. Col. Z. S. Branson, Auct. For catalogs mention Homestead and address

WALKER BROS. - ORD, NEBRASKA

BRANSON'S DUROC JERSEY SALE

At the Farm Near

West Branch, Iowa, Wed., Oct. 15, 1913

50 Head, 25 Boars, 25 Sows and Gilts

THE offering consists of 25 extra growthy spring boars, 15 spring gilts, 8 good fall yearling gilts and 2 yearling sows by Peachie Commodore; spring pigs by Branson's Golden Model by Golden Model II. The fall sows are by Wilson's Defender and H. I.'s Model. The entire herd has had the double treatment and are immune from cholera.

H. I. BRANSON - - WEST BRANCH, IOWA

Alban and Gibson, Auctioneers. Carlos C. Palmer, Homestead Field Man.

Van Steenberge in Europe.

A. M. Van Steenberge is now in Europe for his regular fall importation of Percheron and Belgian stallions and mares. A recent letter states that the horses bought up to date are the best obtainable in Belgium and France and will be better than any previous importation. His knowledge of the languages and the long-standing acquaintance with the best breeders of the country places at his disposal horses which others are unable to buy. This importation will be exceptionally strong in mares of both breeds, while the stallions are of unusual merit. This importation of forty head, together with the stock on hand at present will be one of the best collections of Percherons and Belgians in the country. A goodly number of home-bred horses will also be ready for trade by the time the others arrive, about November 1st. Intending purchasers will find it to their advantage and interest not to buy until having inspected these horses. You will find here what you want, a horse of the right kind, sound

AN IMPORTANT SALE OF ABERDEEN ANGUS CATTLE

TO BE HELD IN THE SALE PAVILION

WILLIAMSBURG, IA., THURSDAY, OCT. 16, '13

I AM offering many of the most desirable females in my herd in order that breeders desiring really high-class cattle will not be disappointed in the offering. William Cash, Williamsburg, Iowa, and P. J. Donohoe, Holbrook, Iowa, are contributing a few choice specimens of the breed. I take great pride in inviting every breeder and farmer interested in good beef cattle to attend this sale and pass your judgment on the value of the cattle to be sold. Many daughters and granddaughters of the noted Black Woodlawn, the undefeated Erwin C., Prince Ito, Black King of Homedale 2d and others are listed for this occasion. They are of the Blackbird, Trojan Erica, Pride and Queen Mother families. If you want a high-class herd bull or a few females to raise the average of your herd write me for a catalog at once, mentioning The Homestead.

Auctioneers, N. G. Kraschel and Fred Reppert.

JOHN CASH, JR. - - - **PARNELL, IOWA**

as a dollar and at the lowest possible price. Mr. Van Steenberge saves you interpreters' and salesmen's commissions and salaries and handles only the best in both imported and American breds. Some standard-bred trotters will also be offered for sale this coming season. For further information address A. M. Van Steenberge, Ogden, Iowa.

Cameron's Short-horn, Duroc Sale.

On October 6th, at Herman, Neb., Carey Cameron will sell a draft of thirty head of Short-horn cattle and twelve head of Duroc Jersey boars, and he is one of the good western breeders who never fails to put up a good offering. He is selling eight good young bulls in this sale and among these are several that are straight Scotch. In last week's issue we gave a detailed mention of these young bulls and we will again say that here will be a good place for a man to buy a bull and buy him right. There will be some Scotch bulls in this sale that will make good herd bulls and there will also be some extra good Scotch-topped bulls that will be good enough to go anywhere. He is also listing some good Scotch cows and some very choice young Scotch heifers. One of his best Scotch cows is Barmpton Miss, a daughter of Chas. Norton's well-known Banker's Victor, and she is just as righly bred a Cruickshank Butterfly as was ever offered either at public or private sale. A very choice red heifer out of this cow and sired by Roan Gloster will also be sold in the sale. Barmpton Snowflake is also another well-bred Norton cow—practically the same breeding as the other and she has a nice young bull in the sale. There are a very choice lot of young heifers in this sale among which are several that are sired by Royal Knight, a son of the noted March Knight. He is selling twelve Duroc Jersey boars in this sale and these are as good as we have seen in our rounds this fall. These boars will make excellent herd boars and they will have plenty of size and ample quality. In fact, there are some very promising young boars in this sale that look good enough for herd boars. Some of the best of the spring boars are sired by The Brave, a son of Red Wing's Brave, and these are very choice, both in quality and in size. There are three good spring boars in the sale that are sired by Valiant Chief, a 900-pound boar and a good one. There is also a splendid fall boar in this sale sired by Valiant Chief. He is out of Jumbo's Lass, and she was a daughter of Critic's Last, as good a boar we think as was ever owned in the state of Nebraska. Here is a fall boar that would look good at the head of any of our best herds. If you want anything in the way of Short-horns or Duroc Jersey boars make it a point to attend the Carey Cameron sale, Herman, Neb., Monday, October 6th. M. T. White will represent The Homestead at the sale and will care for any bids sent in his lare.

WANTED A few registered Red Polled heifers, bred to calve in September or October. Give price and address L. L. Woods, Grinnell, Iowa.

Harris & Sons' Greatest Sale of Hereford Cattle.

O. Harris & Sons, Harris, Mo., proprietors of the herd of model Herefords, hold a sale of thirty bulls and forty females at their farm at Harris, Mo., on Wednesday, October 22d. Every lover of the white face should arrange to attend, as at the same time the breeding herd and the show herd that has been winning so consistently, will be on exhibition. This will afford an exceptional opportunity to study the methods Harris & Sons have adopted in breeding their winners and at the same time buy from the sale either bulls or females carrying the blood of as great animals as the breed affords. Benjamin Wilton, sire of a number of the winners that made Harris & Sons herd so popular at and following the world's Fair held at St. Louis in 1904, did a great work in laying the foundation for a still greater herd. Beau Donald 5th, the bull that shared the honors with Benjamin Wilton at St. Louis, proved just the bull to cross on the get of Benjamin Wilton and to this pair of bulls Harris & Sons owe much of their success as breeders of model Herefords. To get bulls to follow so great a pair of sires was no easy matter, but in Repeater and Gay Lad 6th it is evident by their winnings and the winnings of their get, that Harris & Sons have succeeded far beyond their fondest hopes. When Repeater showed as a two-year-old, Gay Lad 6th was showing as a senior yearling and throughout that year they were the junior, senior and grand champion bulls. The following year, 1911, Gay Lad 6th was senior and grand champion bull at every show where shown. In 1912 the get of Repeater won both junior herd prizes and both junior championships were sired by him. Prince Perfection, the last herd bull added, is winning in class this season and Repeater 7th, a son of the great sire, is being made grand champion at every show. Among the thirty bulls selected for the sale each of the Harris herd bulls will be represented by sons worthy of the consideration of those looking for the best. Gay Lad 6th will be represented by Gay Lad 9th that has been standing next to the champion Repeater 7th in two seasons' shows. Gay Lad 12th, 13th, 15th, 23d and a junior calf not taken out will furnish material and attractions enough in show material for one sale. Repeater 12th and Repeater 20th will be found desirable herd header material. A dozen youngsters just turning one year old will be found as attractive a string to select herd header material from as is often found. They are sons of Repeater, Gay Lad 6th and Prince Perfection. There are also nine or ten long yearlings listed that are big, strong fellows with size bone and conformation that should appeal to stockmen looking for high class steer bulls. Thus it may be seen that Harris & Sons are putting up bulls that should appeal to all classes and the number insures an exceptional opportunity for selections. The forty females are as uniform a lot of two year olds as are found and every one is in calf to the grand champion bulls Repeater, Gay Lad 6th and their sons. Princess Repeater and Princess Repeater 3d, the former being shown in 1912 and the latter with this year's show herd afford the only opportunities to get show heifers by the champion Repeater. Princess Repeater is in calf to Gay Lad 6th and the product be it heifer or bull will be an attraction in any herd. Harris & Sons desire to send you a beautifully illustrated catalog which tells of their work as breeders of this great breed

PROTECT YOUR HOGS

HOG-JOY VERMIN KILLER

30 DAYS FREE TRIAL — USES CRUDE OIL

Your hogs can't thrive when they are lousy. A good part of the feed you give them goes to vermin instead of pork, which makes them easy prey to fatal diseases.

The Hog-Joy Machine

is a sure vermin exterminator. It destroys the lice by oiling them. Hogs will keep themselves free from lice without bother to you. Does away with the "Dip." Most perfect Hog-Oiling device on the market. Built entirely of cast iron, can't break. Only three parts, operates automatically; never out of order, winter or summer. Has no small openings to clog up; no small valves to stick. Use crude oil or any patent fluid you like. Machine doesn't waste a drop.

Endorsed By Big Hog-Raisers

JOHN SO. CULP, Superintendent Swine Dept., Illinois State Board of Agriculture: "The Hog-Joy does the work perfectly and has given me entire satisfaction."

Sent ready to set up with two gallons oil; freight paid; 30 days free trial. Price $10. Your money back if not satisfied. Send money-order, check or cash at our risk. Reference any bank in Springfield, Ill.

Agents Wanted: Write for our liberal proposition. A sure money maker with little work. A rare opportunity for you. Descriptive literature, free. Write today and get your hogs in condition to resist disease.

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301 N. 5th Street
SPRINGFIELD, ILL.

AUTOMATIC — UNBREAKEABLE — FREIGHT PREPAID

When writing to advertisers please mention The Homestead.

TOO LATE TO CLASSIFY.

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col. and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. We also offer twenty extra good growthy spring gilts for sale, sired by Proud Col. and out of a Model Wonder dam. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address

HANKS & BISHOP - - - - - - - **NEW LONDON, IOWA**

Poland China Boars---Bargains for Quick Sales

I HAVE a dozen spring boars, big, growthy, big bone and good quality that I will sell at mighty low prices if taken soon. Must have room. Address, mentioning The Iowa Homestead.

J. H. COPE - - - - - - - - - - - **CARLISLE, IOWA**

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mable's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART** - - - **HARLAN, IOWA**

Irvinedale Belgians and Percherons

40 STALLIONS and mares—imported and home bred. Some highest class horses for critical buyers, and some farmers' horses at farmers' prices. Come to the farm. Ankeny is 10 miles north of Des Moines, on C. and N. W., and Ft. D., D. M. & S. Interurban. Address

CHARLES IRVINE - - - **IRVINEDALE FARM, ANKENY, IOWA**

NISWANDER'S HAMPSHIRE SWINE

I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudio, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address

HOWARD NISWANDER - - - - - - **KINROSS, IOWA**

CHOICE FARMERS' BULLS

CHOICE Short-horn bulls at farmers' prices are the sort offered. They are sired by the good breeding bull, Improver, and out of cows of good breeding. Write to me at once for a good bull worth the money. Address **Pat Kelley, Friend, Neb.**

BERKSHIRE BOARS FOR SALE

I AM offering some good fall and spring boars at farmers' prices. Write me at once and mention Iowa Homestead. Address

JOHN C. MILLER - **HARLAN, IA.**

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - **COON RAPIDS, IA.**

FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address

H. MEYER, STAPLEHURST, NEBRASKA

40 SPRING AND FALL BOARS 40

THE stretchy, smooth coated, mellow kind, sired by Orange Boy (son of Big Orange). This is big-type Poland China breeding without roughness—the Expansion kind. Cut prices. Good health.

M. G. Arnold & Son, Strawberry Point, Ia.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - - **LISBON, IOWA**

30 CHOICE BIG TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D 189573, a son of the great A Wonder 107363.

William Drummy - **Ryan, Iowa**

Poland China Spring Boars

BY Again Chief Price 192035, 2nd prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE **MAQUOKETA, IOWA**

PROCHASKA'S BIG-TYPE POLANDS

FALL and spring boars at bargain prices, sired by Smooth Wonder Yet, Matchless Charmer, Pawnee Jumbo. The best of blood lines. Satisfied customers in seven different states. Try me.

J. J. PROCHASKA - **PROTIVIN, IOWA**

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Supberba Jr. 37219 and dams of equal merit. Write me your wants.

W. F. DRUMMY - - **RYAN, IOWA**

SHETLAND PONIES

HERD of eleven head, mostly mares, including fine stallion for sale at a bargain. Who wants this bunch of money-makers? Sold only in a bunch.

A. A. BERRY - - **CLARINDA, IA.**

Short-Horn Herd FOR SALE

NINE EXTRA CHOICE females and one very fine Scotch bull for sale. They come of excellent pedigree and are good individuals. Will price them cheap as a bunch. Write today if interested.

F. M. HALL - - - **FRIEND, NEB.**

Six Fall Boars

By the Great Giant King

Some by Jumbo (by Big Jumbo)

AND 40 fall yearlings and gilts, the best known to the Poland China breed.

G. F. MARSHALL & SON, MONROE, IA.

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

COLLINS' JERSEY RED

the best pig bred

You get finest Jersey Red Pigs at cost of common stock by our New Sales Offer. New Illustrated Catalog FREE.

ARTHUR J. COLLINS Box 14 Moorestown, N.J.

375 lbs. in 9 months!

Large Berkshires

Our Berkshires are handled in such a manner as to insure their usefulness. They do well wherever sent. We keep the most popular families

M. A. O'Brien
Reedsville, Wis.

IMMUNE RED HOGS

DOUBLE TREATMENT

Crimson Wonder and Ohio Chief Strains

GEO. T. WHITE DALLAS CENTER IOWA

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

MESSENGER BOY 6179

75 Hampshire Boars at Auction at the Farm near Keswick, Iowa, Tuesday, Oct. 14, 1913

65 of the Boars Sired by Messenger Boy 6179, the Undefeated Grand Champion Hampshire Boar of the United States 1912-1913

Show Boars, Breeding Boars, Farmers' Boars

Write me at once for catalog, mentioning The Homestead. Send bids to Carlos C. Palmer, Homestead field man, in my care.

CLAYTON MESSENGER . . . . . KESWICK, IOWA

Auctioneers, H. L. Igleheart, Gene Fagan, D. D. Deem

of cattle and of the sale offering. Send for it now and kindly mention this paper when doing so. See page 36 for advertisement.

Larson's Immune Duroc Boars.

For the last time we want to call attention of Duroc Jersey breeders to the sale of O. S. Larson, Logan, Iowa, October 7th. He is selling forty head of boars and sows and the most of the spring boars in this sale will be sired by his noted boar, King The Cols. There is nothing in Durocs today that is attracting more attention than the King The Cols. and it will be remembered that he is the sire of those two great boars, Col. Gano and Colonel Sensation, two of the largest and best boars today in the state. He is also the grandsire of King Gano, the Osborn boar that was first-prize Iowa State Fair winner this year and was one of the strongest boars for championship honors that was seen at the fairs this fall. Well, there are some good King The Col. boars in this sale, possibly some better ones than he sold in his August sale, and the breeder who is going to want a boar to place at the head of his herd and one that will add a reputation that will mean something in the future then he will be interested in the boars that Mr. Larson is selling in this sale. Among the best of these are Nos. 3, 4, 5, 6, 10 and 12, and several others that are strictly all right. Write for the Larson catalog at once and kindly mention The Homestead. Bids sent to M. T. White, representing The Homestead in care of Mr. Larson will receive attention on day of sale.

Pederson's Poland Chinas.

C. M. Pederson, Dunlap, Iowa, now offers for sale twenty-five head of his large-type Poland China fall and spring boars for sale and he says he has some of the best boars that he has ever raised since he has engaged in the business. His fall boars are all good and weigh 350 pounds and are sired by Golddust Wonder and Long Orange. His spring boars are sired by Golddust Wonder, Long Orange and Defender Again, and these are out of 800-pound sows. Mr. Pederson certainly has a good string of boars for the trade this fall and he will be pleased to hear from Homestead readers who are going to want a good boar this fall. He will be pleased to have intending purchasers write him or, if it is possible, come and see the boars he is offering for sale, as he thinks they will then have every opportunity to pick a boar that they will want. In his letter to us he says: "Henry Big Bone, our new boar, is making for the half-ton mark and we think he is going to make one of the greatest boars in the state of Iowa. He has an eleven-inch bone and he has already proven himself a splendid breeder of large litters. My young boar, Chief of Wonders, he by old A Wonder and out of a dam by Big Joe, is a large, husky fellow and he is going to make a great herd boar when matured. These will be the main boars that I will use for my February 16th sow sale." Write Mr. Pederson at once about these boars or go and see them and make your own selection.

The Lockridge Short-horn Sale.

There is much to attract in the offering of Short-horn cattle that will be made at Chicago, Monday, October 13th, by S. F. Lockridge, the veteran breeder of Greencastle, Ind. The results of forty years of progressive breeding operations is contained in this lot of cattle, and they will give a satisfactory account of themselves when inspected by the public. From the standpoint of breeding there are few herds in the country where there is so much Cruickshank blood in evidence as is found in Mr. Lockridge's collection of cattle, a fact that should have a strong bearing on the sale. The female portion of the offering is one of outstanding merit. Sunflower 10th is a typical Scotch cow, a Cruickshank Secret, having scale, character and finish, and is safe in calf to Village Charm, is an Iantha, the good kind, with a fine heifer calf at foot. Lucile is a Broadhooks of approved breeding pattern, with a lusty bull calf at foot, and Golden Plume, a Brawith Bud, is a beautiful cow, due to calve about sale day. A fine young cow is listed in Maid of Gloster, a Cruickshank Duchess of Gloster, with a heifer calf at foot, and Sunflower 16th is an extra good cow, with a heifer calf at foot by Shamrock, an outstanding Scotch bull that is listed for the sale. Seventeen of the cows in this sale sell with calves at foot, so that one can readily see it is a strong breeding proposition. Sixteen extra good heifers are cataloged, all bred but three, and forming not the least attractive portion of the sale offering. Among the seven bulls cataloged will be found both herd-heading and steer-getting material. Shamrock, four years old, is rich in Cruickshank blood, is deep and thick, stands on short, well-made legs, has a good head and horn, and shows evidence of prepotency. He has been used some in the herd and has proven a strong sire. Royal Scot is a royally bred Secret of fine lines and strong appearance, while Game Warden is a neatly turned Brawith Bud calf that is deserving of attention sale day. There is other good bull material in this offering. Mr. Lockridge has been a stalwart supporter of the Short-horn through good weather and through bad, and no matter what the conditions he has never faltered in his allegiance to the red, white and roan. He has done much for the breed, and now that he is to make a sale of a draft from his herd he should have the hearty support of every Short-horn breeder and admirer. He deserves it, and his cattle are worthy in every respect. Every animal in the offering, with the exception of two head was bred by Mr. Lockridge, and they do him credit. The advertisement of this sale appears on page 40. Look it up and send for a copy of the catalog to S. F. Lockridge, Greencastle, Ind., mentioning The Homestead when you write.

Get a Fur Coat This Season.

When a farmer or stockman can get a really good fur coat for as little cost as one may by sending a hide to the Lincoln Tannery, Lincoln, Neb., it is strange that everyone does not have one of these most comfortable winter garments. One can spend the winter in the South and still stay right at home, if they will provide themselves with one of these great-coats and they are so well made and at so little cost as compared with their value. The Lincoln Tannery also buys hides and makes coats and robes of all kinds, and sells them at the low dollar. The work done on all of these garments is of the very highest class. They do not split and tear the hides by machinery, but on the other hand it is all done with the most skilled hand labor, made up with the best linings and trimmings of all kinds and made practically moth proof. Henry Holm, proprietor of the Lincoln Tannery, is one of the pioneer tanners of the West and it is the tanners of the old school that do the very best sort of work. If in need of a good robe, a fur coat for your self or the wife, send in a good hide or more and get them made or if you do not have the hide, write for the prices of goods already made up. Mention The Homestead and address Henry Holm, Lincoln Tannery, 917 Q. St., Lincoln, Neb.

Paulsen's Hampshire Boar Sale. Last Call.

We are this week calling attention for the last time to the sale of Hampshire boars that will be made by C. P. Paulsen, Nora, Neb., at Fremont, Neb., October 10th. This sale of Hampshires will be one of the best opportunities of years to get a really high-class Hampshire boar. Mr. Paulsen has the breeding, the individuality and all that it takes to make high-class stock. There are boars in this sale that will suit those in search of good ones. They are so marked and so bred and of such individual makeup that those in search of good ones will not be disappointed. Mr. Paulsen has been making a great fight for the Hampshires in Nebraska. He has brought the very best stock of other states to his farm, and he has never lost an opportunity to increase the prestige of the breed in this state. He is deserving of all the support that neighbor breeders can give him, and those of adjoining states may well attend the sale, for they will be able to buy hogs to their liking. There is not time enough to get the catalog now, unless you wire for it, but there is plenty of time to make arrangements to go to the sale. If unable to attend, send your buying orders to J. C. Price, field man for The Homestead and you will be well looked after. Good selections will be made for you and purchased with discretion. Address bids to J. C. Price, care of C. P. Paulsen, Fremont, Neb. See page 42.

Pemberton's Short-horn, Percheron and Poland Dispersion—Last Call.

Frank T. Pemberton, Iowa Falls, Iowa, will close out his herd of Short-horn cattle, Percheron horses and Poland China hogs at the farm near Iowa Falls on October 10th. Serious illness in the family makes it necessary for Mr. Pemberton to leave the farm and also to dispose of his pure-bred herds. Fifty Short-horns, twelve Percherons and fifty Poland Chinas make up the offering. The Short-horn end of the sale will afford excellent opportunities to those desirous of purchasing the best of Scotch blood lines coupled with good, useful cattle. The herd has been a producing herd and has been making money for Mr. Pemberton. He has spent several years and a lot of money getting these cattle together and the purchasers in this sale will get the benefit of his judgment. Thirty-five of the Short-horns are of the very best Scotch breeding and at the prices they will sell for are sure to make big profits during the next few months. Mr. Pemberton has not fitted these cattle highly for a sale, but they are selling in just good breeding condition such as any breeder would like. Favorite Goods and Snowflake, the herd bulls, are bred in the purple and are desirable. One imported cow, Strowan Buttercup 24th and several of her daughters and grandaughters are included. We have not space at command to go into detail regarding the breeding of the cattle as there are so many well bred ones. The following Scotch families are represented: Victoria, Lady Dorothy, Lavender, Secret, Duchess of Gloster, Acorn, Rose of Strathallen, Orange Blossom and others. Owing to the large number of cattle, horses and hogs to be sold in one day there are sure to be many bargains and the man who attends this sale will make some money if he makes use of the opportunity afforded. The Percherons are are all recorded in the Percheron Society of America and consist of a high class imported stallion, two three-year-old imported fillies and a number of American bred mares and fillies. The Poland Chinas are nearly all fall yearlings and are of the very best big-type breeding. This sale follows the Poland China sale of C. F. Adams, Owasa, Iowa, on October 9th and also the Short-horn sale of Miller & Northy, Morley, Iowa, on October 9th. Easy connections can be made from both sales. See page 37 and write for a catalog mentioning The Homestead.

S. F. LOCKRIDGE SELLS 40 SCOTCH SHORT-HORNS

AT CHICAGO, ILLINOIS, MONDAY, OCTOBER 13, 1913

EVERY animal in this sale, with the exception of two head, was bred by Mr. Lockridge, and they represent the results of over forty years of active breeding operations. Few herds afford as much Cruickshank blood as is found in this herd, and those who attend the sale will have an opportunity to place public sale values upon representatives of the Secret, Brawith Bud, Broadhooks, Duchess of Gloster and Forest Queen tribes that will be found right in every way. Seventeen breeding matrons are listed, and thirteen of them sell with calves at foot, while there are sixteen heifers listed, all bred but three. Seven bulls are cataloged, and among them will be found both herd heading and steer getting material of the right sort. The females in the sale are bred to either Matchless Victor, by the International winner, Imp. Cock Robin; Scottish Baron 3d, by Victor Linwood, or Shamrock, the latter a richly-bred Scotch bull of outstanding merit that is included in the sale. This is a reliable lot of cattle in every way, the natural increase of a working, producing herd, and they are offered to you in the belief that you will appreciate their worth sale day. Write for the catalog, which will be sent upon application. Mention The Homestead and address

S. F. LOCKRIDGE - - - GREENCASTLE, INDIANA

Colonels Woods and Jones, auctioneers. Attention is called to the following Short-horn sales: Thos. Stanton, Wheaton, Ill., October 14th; C. J. McMaster, Altona, Ill., October 15th; R. W. Botts, Plymouth, Ill., October 16th.

THOS. STANTON'S SALE OF SHORT-HORNS

WHEATON, ILLINOIS, TUESDAY, OCTOBER 14, 1913

45 HEAD---2 BULLS---14 COWS WITH CALVES AT FOOT

INCLUDED in this offering are fifteen head of finely-bred Scotch females, belonging to the Secret, Rose of Hope, Lavender, Goldie and other popular tribes, and thirty head of Scotch-topped Rose of Sharon, Young Mary, Duchess and Wild Eyes, all big, roomy matrons, with milking qualities strongly developed. These cattle have all several crosses of the best Scotch breeding in their pedigrees, and from the standpoint of individual worth are hard to beat. They will make plenty of money for anybody who is fortunate enough to buy them. Two bulls are listed, one by Selection and one by Masterpiece, that will stand inspection sale day.

SMITH & HEISSERER, ORAN, MO., CONTRIBUTE 15 HEAD OF HIGH-CLASS SCOTCH CATTLE

to this sale, making thirty Scotch cattle in sale, among them some top specimens of the breed. There will be cattle in this sale to suit all classes of buyers, and a cordial invitation is extended to you to be present. Send for the catalog. Mention The Homestead and address

THOS. STANTON - - - - - - - - WHEATON, ILLINOIS

Colonels Woods and Jones, auctioneers. Attention is called to the following Short-horn sales: S. F. Lockridge, Chicago, Ill., October 13th; C. J. McMaster, Altona, Ill., October 15th; R. W. Botts, Plymouth, Ill., October 16th.

Robison Bros.' Sale of Percherons.

A decidedly attractive lot of Percherons will be sugmitted at public sale at Morton, Ill., Monday, October 20th, by Robison Bros. These gentlemen have been engaged in breeding Percherons for twelve years, and in the coming sale every one of the forty head cataloged, with the exception of seven imported mares and one American-bred filly, was produced on the Robison farm. It is seldom, indeed, that the buying public has the opportunity to place values upon so many animals bred by the party making the sale, but in this instance one of the strongest kind of object lessons will be presented as to the benefits to be derived from the breeding of good horses on the farm. Robison Bros. conduct an 1,100-acre farm, all the work on which is done by the Percheron mares, and last year from twenty-one mares bred they secured eighteen living colts, a record hard to beat. There are forty head cataloged for this sale, seven imported mares, five to seven years old, all bred; ten American-bred mares, three years and up, all bred; three two-year-old fillies; five yearling fillies and four weanlings; in the stud list there are six yearling studs, including several outstanding propositions, all by Vermouth, the prize-winning stallion at the head of this stud, and five suckers, four by Vermouth and one by Rabelais. It is not our intention to go into detail regarding this lot of horses at this time. They were recently inspected by the writer, and he does not hesitate to recommend them to the readers of The Homestead. In later issues more details will be given. You will not be disappointed if you attend this sale. The animals will stand inspection. They have been raised under conditions that tend to future usefulness, are strongly bred along the very best blood lines, and should be in strong demand sale day. The advertisement appears on page 35. Look it up and write for a copy of the catalog to Robison Bros., Morton, Ill., mentioning The Homestead when you write.

Extra Choice O. I. C. Hogs.

N. R. Rogers, Peru, Neb., has for many years supplied readers of this paper with extra choice Chester White hogs, but this season he has the very best lot of early spring boars that he has raised in many years. They are all early and are strongly bred in the very biggest stuff of the breed. They are mostly from sows strong in the blood of the 1,210-pound Jumbo and are sired by Boyer's Model, one of the biggest young boars anywhere. This size is what the farmers want. They also want feeding quality with it. Right here of Mr. Rogers is the place to get that kind of a boar, and they also have plenty of good hard, flinty, bone. If you order a boar of Mr. Rogers a long step in the right direction will have been taken. See the advertisement on page 46.

White's Duroc Jersey Hogs.

Immune Duroc Jersey boars, late March and early April farrow, are offered for sale by Geo. T. White, Dallas Center, Iowa, whose advertisement will be found on page 38. A representative of The Homestead who visited Mr. White's herd last week found it in excellent condition and that the young boars now offered for sale are a husky, thrifty lot, not highly fleshed, but of great promise. There are five fall boars, one of them by H. A.'s Choice Goods 5th and the others by Jumbo Wonder. H. A.'s Choice Goods 5th is a grandson of Choice Goods. Jumbo Wonder is by Crimson Wonder Again, and his dam is H. A.'s Queen, the noted sow in the Sells herd. The H. A.'s Choice Goods 5th boar is out of a dam by Model Again. Two of the others are from Liberty Chief dams and the dams of the other two are by Zeke, that is a son of old Proud Advance. The spring pigs are nearly all by Jumbo Wonder. Their dams are daughters of Zeke, Liberty Chief, Model Again and H. A.'s Choice Goods. Liberty Chief, it will be recalled, is one of the biggest sons of Ohio Chief. Model Again is a litter brother to Golden Model 2d, that noted show hog of the Waltemeyer herd. They all may be considered immune from hog cholera. They were given the simultaneous treatmnt by a government veterinarian, who is located in Dallas county and connected with the government campaign against hog cholera which is now being prosecuted in that county. For descriptions and prices address George White, Dallas Center, Iowa.

Chas. H. Murray's Chester Whites.

With this issue of The Homestead, the well-known Chester White breeder, Chas. H. Murray, Friend, Neb., starts an advertisement in which he offers Homestead readers his entire crop of spring boars, also a few fall boars and all at attractive prices. On account of the failure of the corn crop in his immediate section, Mr. Murray will not make a winter-bred sow sale as he had planned, but will offer the greater part of the gilt crop at private treaty. Mr. Murray expects to keep the greater part of his old breeding stock over, and a few of the choice gilts, as he is of the opinion that the future of the hog business was never brighter, yet he cannot keep over all of his female stock and for that reason a fine lot of choice gilts and fall sows will now be for sale at private treaty and will be sold open or bred. It is a good time to buy good hogs and Mr. Murray will do his best to please all that apply. Kindly mention The Homestead when you write. See page 46.

Blake's Immunized Poland Chinas.

Forty-five head of immunized, double treated Poland China hogs will be sent under the auctioneer's hammer October 13th by R. R. Blake, Dallas Center, Iowa. Mr. Blake urges two strong points with reference to this consignment. The first is that the hogs are cholera proof. Last February he sold a consignment of immune hogs under absolute guarantee to replace any which died from cholera. He was not called on in a single instance. The other strong feature is that the hogs have been fed for growth and thrift, rather than for fat. They may not look as attractive to the eye as well-fitted hogs, but they are certainly of a more profitable and promising sort. And now as to the breeding. Mr. Blake founded his herd on the big-type sort that had finish, easy fitting qualities and early maturity, and in every respect the consignment is certainly most attractive. The fall boars, of which there are twelve, are of the most popular lines of breeding. Some of them are by Long King and other lines of blood with dams tracing to A Wonder, Chief Price, Smooth Wonder and equally prominent sires. The spring boars are from dams of the same lines of breeding, but their sires are of wider range of blood lines. Some are by Long King, others by L.'s Big Bone, Smooth Wonder Again, H.'s Big Bone and Big Nelson. They all show good strong bone, short pasterns and outstanding feet. There is no roughness or ungainliness, but a well-made conformation throughout that speaks volumes for their future usefulness. A limited number of fall sows have been cataloged and these are daughters of Long King, Smooth Wonder Jr. and Columbia Chief. Two only have been bred. Mr. Blake requests that all who attend the sale by rail stop at Waukee, which is the nearest railroad station and where free conveyance to and from the farm will be provided. For catalogs address R. R. Blake, Dallas Center, Iowa. See page 42.

Larson's Last Call.

If any of our readers are wanting a good King The Col. boar they should go to the O. S. Larson sale at Logan, Iowa, October 7th. He is selling fifteen head of King The Col spring boars in the sale and some of these are outstanding good ones. He also sells three choice King The Col. gilts in this sale and two good sows that sell with breeding privileges to King The Col. If you want King The Col breeding make it a point to be present on this occasion. Our Mr. M. T. White will represent this paper at the sale.

An Important Chester White Sale.

A public sale of most unusual interest, not only to Chester White breeders, as well, is that which M. W. Young will hold at Ankeny, Iowa, Tuesday, October 14th, as per the announcement on page 46. In previous issues of this paper we have given details as to the blood lines involved in this sale consignment. We wish now to give added weight to any statement that may have been made with reference to individual quality. No matter how good the blood lines of an animal may be, individual merit must be in keeping. Mr. Young has exercised discretion in the selection of typical sires and dams. In the beginning he started with a few brood sows that satisfied him in all those points which go to make up choice well-formed, well-finished Chester White hogs. From these few foundation sows have grown the present herd. It is doubtful if any like number of animals of the breed can be found in any breeding establishment, possessing the same high degree of individual excellence. This is especially true with reference to excellence of back. There is not a single animal in the sale which is subject to criticism at this point. They are full over the heart, widely ribbed out, broad over the loin, and with evenness from front to back that establishes symmetrical proportions throughout. They are strong in the matter of broad, short heads and well-set ears. They have the capacity to carry flesh enough to establish heavy weights in addition to their quality as breeding animals. It must also be said that the lot contains numerous individuals that are show animals in the rough, and need only to be developed by an experienced hand. There are matured sows, fall sows and spring gilts. But two of the older ones have been bred. There will be fall and spring boars in about equal numbers. Catalogs of this sale may be obtained by forwarding a request to M. W. Young, Ankeny, Iowa. It should not be forgotten that Ankeny is located on the Des Moines branch of the C. & N. W. Ry., and on the Fort Dodge, Des Moines & Southern Electric line, making it one of the most easily reached points in the state. Mail or wire bids may be sent to C. C. Carlin,

M'MASTER'S SALE OF SCOTCH SHORT-HORNS

ALTONA, ILLINOIS, WEDNESDAY, OCTOBER 15, 1913

40 HEAD---5 BULLS---A TOP LOT

THIS is the fourth annual offering from Glenview, and is the best lot of cattle ever sent forward from the herd, both as regards breeding and individuality. The female list includes some of the greatest breeding matrons and young cows ever presented in any sale. Ten cows will sell with calves at foot by such sires as Roan Sultan, Masterpiece, Silverdale, Browndale Sultan and other top bulls. In the bull list is Glenview Dale 4th, a red yearling by Browndale Sultan, that is a top one in any company; a good one by the champion, Avondale, and some outstanding calves. In this sale are daughters of Silverdale, Villager, Whitehall Sultan, Nonpareil Crown, Masterpiece, Lord Lenten, Avondale, Maxwalton Dale, as strong an array of sires as the breed affords. The catalog tells the story and will be sent upon application. Mention The Homestead and address

C. J. M'MASTER - - - - - ALTONA, ILLINOIS

Colonels Jones and Reppert, auctioneers. Attention is called to the following Short-horn sales: S. F. Lockridge, Chicago, Ill., October 13th; Thos. Stanton, Wheaton, Ill., October 14th; R. W. Botts, Plymouth, Ill., October 16th.

SHORT-HORN DISPERSION SALE

PLYMOUTH, ILLINOIS, THURSDAY, OCTOBER 16, 1913

40 HEAD---13 BULLS---ALL SCOTCH

TWENTY-FIVE females are listed, nineteen of them bred to Pride of Linwood or Village Magnet. There are six strong heifers by Pride of Linwood. The bull offering includes Village Magnet, a two year old by Bapton Magnet, a son of the great Silver Plate, and out of a Cruickshank Village Blossom dam; Progress, a two year old by Pride of Linwood out of an Acanthus dam by Baron Golddust 3d; Elm's Diamond, a red yearling by Pride of Linwood out of a dam by Imp. Pennan Diamond, and ten young bulls and bull calves by Pride of Linwood, all Scotch, and including many outstanding prospects. This lot of cattle will please you. Every cow in the Elms herd raised a calf this year. The families represented in this offering are Nonpareil, Acanthus, Lavender, Rosemary, Queen of Beauty, Village Blossom, Marr Mary Ann, Violet Bud and a few Scotch-topped Waterloo J.'s, a family I have bred with much success for twenty years. W. B. Rigg, Mt. Sterling, Ill., consigns nine head, eight females and one bull, all Scotch bred but two head. Attend this sale. Write for catalog, mentioning The Homestead, to

R. W. BOTTS - - - - - - - - - PLYMOUTH, ILLINOIS

Colonel Carey M. Jones, auctioneer. Sale on farm midway between Plymouth, on the C., B. & Q. road, and Bentley on the Wabash. Parties met at both points. Attention is called to the following Short-horn sales: S. F. Lockridge, Chicago, Ill., October 13th; Thos. Stanton, Wheaton, Ill., October 14th; C. J. McMaster, Altona, Ill., October 15th.

of The Homestead, in care of Mr. Young, should it be inconvenient to be at the sale.

Miller & Northy's Short-horn Dispersion.

Miller and Northy, Morley, Iowa, will disperse their select herd of Short-horn cattle on October 9th. Fifty-six head have been cataloged, ten of which are bulls and the balance females. The bulls include Diamond King, a nine-year-old bull that has been used in this herd continuously for eight years. He has proven one of the most valuable sires ever used in eastern Iowa. The females sired by him that sell in this sale are a magnificent lot and show the really high class type of cattle that this great bull has been siring. He is as sure and as active as a yearling and undoubtedly has several years of usefulness ahead of him. He is a very valuable bull in any herd. Sterling Scotty is a four-year-old son of Sterling Knight while his granddam was Imp. Flower Girl 11th by Imp. Knuckle Duster. He is an excellent bodied bull with good lines and has an impressive makeup. About the best young bull in the sale is Commander, a December calf by Lord Hampton and out of Gladys. He is an excellent roan with good lines and bids fair to develop into a valuable bull. Prince is another good roan calf sired by Lord Hampton and of the Nonpareil family. There are some other good calves suitable for the siring of market topping steers. It is doubtful if a better bunch of females will be sold at auction this year than those included in this sale. Too much cannot be said in regard to their superior merit. Roan Lady, No. 1 in the catalog, is the kind that will raise the average in any herd in the country. She is a show cow weighing 1,800 pounds and has had nothing to eat but grass. It would take more space than we have at command to call attention to the many valuable females in the herd, but we call attention to Nonpareil 4th by Lord Hampton, Red Rose 4th by Sittyton Royal, Fairy Knight 2d by Royal Banner, Eliza 16th by Diamond King, Lavender Queen 6th by Scotch Lad, Scotch Flora by Cherry Grove Banff. It will pay anyone interested in good Short-horns to write Miller & Northy for a catalog and arrange to attend this sale. See the advertisement on page 42.

Choice Fox Terrier Puppies.

N. R. Rogers, Peru, Neb., one of the best known stockmen of eastern Nebraska is starting an advertisement in The Homestead this week in which he offers some extra choice Fox Terrier puppies. The writer is familiar with the class of stuff to be found in the Rogers kennels and we wish to say that this stuff is bred from the very best of working stock and bench winners as well. Moderate prices take them and an early order is sure of a fine selection.

William Reed's Duroc Sale.

William Reed, Rose Hill, Iowa, will sell fifty high class Duroc Jersey boars and sows on October 8th at his farm adjoining town. Mr. Reed is consigning three fall boars and six fall sows to this sale that are indeed a very select lot. One of the fall boars is by Reed's Top Col. and out of a John's Ohio Chief sow. This boar is a big, rugged fellow with heavy bone, strong back and looks like he would make an impressive sire. He is as strongly bred in Col. and Ohio Chief blood lines as it would be possible to get. Among the spring boars is a pig by Chief Select and out of Fair Wonder 2d by J. C.'s Model Chief, that is every inch a show pig. He has an abundance of quality, an excellent head and ear, stands on the best of feet and legs and is smooth as a ribbon. He is a full brother to the $190 pig in Mr. Reed's last sale. The six fall sows should go into some herd and be kept as a breeding foundation. They are the kind that help build up herds and improve the quality of the breed in general. The spring gilts are an exceptionally smooth bunch with quality and would look good this winter in a bred sow sale bred to some good boar. Among the spring boars are several very desirable pigs sired by Chief Select and Reed's Top Col. Carlos C. Palmer, Homestead representative will carefully attend to any bids sent him in care of Mr. Reed. See page 42 and mention The Homestead when writing for a catalog.

Branson's Duroc Sale.

H. I. Branson, West Branch, Iowa, will hold a public sale of Duroc Jerseys at his farm on October 15th. Fifty head of boars and gilts will be sold. There will be twenty-five spring boars, fifteen spring gilts, eight fall yearling sows and two spring yearlings. The entire offering has had the simultaneous treatment and is supposed to be immune from cholera. The spring pigs are sired by Branson's Golden Model, a son of Golden Model 2d and out of Miss Wonder, the dam of Blue Ribbon Model. There will be five fall sows by Wilson's Defender, he a litter mate to Disturber, and three fall sows by H. I.'s Model, a grandson of Crimson Wonder Again. Mr. Branson has a well grown lot of pigs and can please anyone looking for size, bone and quality combined with good breeding. He will be glad to have anyone interested write him for a catalog, mentioning The Homestead. Carlos C. Palmer, Homestead representative will attend the sale and care for any bids sent in care of Mr. Branson. See page 37.

Gudgell & Simpson's Hereford Cattle Sale.

The sale of fifty head of bred Hereford heifers which Gudgell and Simpson, Independence, Mo., will hold on Saturday, October 11th, affords an opportunity to buy females that are bred right and are such individuals as will add to the attractiveness of the herds to which they go. The work of years in breeding the modern type enables these gentlemen to offer so large a number and all of one type. Those who appreciate breed, character, plenty of size, bone and quality, will not be disappointed and it is a rare thing to find so many heifers in a sale without a bad head or horn. The very best bulls that have done service in the Gudgell & Simpson herd in recent years are the sires of this string of heifers, and they are bred to bulls of the same type and character as their sires which insures the same uniformity and quality in their offspring. Those laying the foundation for a herd could do no better than to buy a string of these heifers. Twenty-two are daughters of Domino, sixteen are daughters of Beau Picture, four are daughters of Beau President, the remainder are by Britisher, Beau Modest and Bright Stanway. Two have calves at foot, the remainder are well along in calf to Bright Stanway, Beau Modest and Beau Dandy. The only chance for securing this type and kind is to improve the opportunity when they are offered, and it is indeed a rare occasion when one breeder offers such a number. Those wanting bulls should not overlook the ten head of yearlings John Lenox, Independence, Mo., contributes, as they are well bred and will make good. Remember the sale is Saturday, October 11th, American Royal week, and the cattle may be seen at any time during the week. Interurban cars run to Independence every ten minutes and Gudgell & Simpson will gladly meet you and take you out to see the cattle.

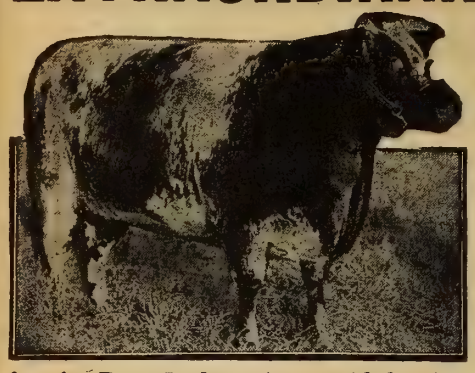
Stanton's Short-horn Sale.

Tuesday, October 14th, the day following the Lockridge sale at Chicago, Ill., Thos. Stanton will sell forty head of Short-horns at his farm near Wheaton, Ill. For this event Mr. Stanton has selected a lot of cattle that should meet with a ready appreciation. There are fifteen head of well-bred Scotch cattle in the sale and twenty-five head of Scotch-topped Rose of Sharon, Young Mary, Duchess and Wild Eyes cows. To the man who is not a stickler for pedigree, but values merit in an animal these females will certainly appeal very strongly. They are the big roomy kind, with scale and conformation, strongly developed milking qualities, regular breeders; many of them selling with calves at foot, and all having several crosses of high-class Scotch sires in their pedigrees. From the standpoint of individual excellence they form one of the most attractive lots of females offered in any sale this year. The Scotch females Mr. Stanton has listed belong to the Secret, Rose of Hope, Goldie and Lavender tribes, and need no recommendation at our hands, as they will be amply able to speak for themselves on sale day. Mr. Stanton is only offering two bulls, one by Selection and one by Masterpiece, both out of heavy-milking dams and both good ones. In addition to the cattle Mr. Stanton is selling fifteen head of Scotch-bred animals, including some outstanding propositions, are consigned by Smith & Heisserer, Oran, Mo. Catalogs for this sale can be secured by addressing Thos. Stanton, Wheaton, Ill., as per the advertisement on page 40. Kindly mention The Homestead when you write.

Kool Sells Good Hogs.

In his advertisement on page 42, A. Kool calls the attention of our readers to the fact that on October 8th he will make a sale of Poland Chinas, such as cannot fail to be pleasing to critical buyers. It includes about forty head, fall boars, fall sows, spring boars and spring sows. Through the entire lot there runs the blood of big Victor's Improver and Jumbo. Big Victor's Improver is one of the best breeding hogs in the state of Iowa, not only because his blood lines trace back to some of the most important winners of the breed, but because he has size, extra strong bone and foot and broad, well-arched, well-ribbed-out back, and a head in keeping with his other merits. As a producer he is extraordinarily good as will be noted on sale day. Jumbo is a son of Big Orphan and carries strains of blood which, it will be recalled, have been carried by the winners at the Nebraska State Fair for three successive years. Jumbo also has size and considerable other of the merits that have made the Nebraska winners so prominent. There are still other important strains of blood involved in this offering, but all of them are good. The animals to be sold are of the right sort, free from disease, in perfect health and thrift, and right from every point of view. The sale will be held at Mr. Kool's farm, which is one mile from Fifield on the Wabash railroad and three miles from Otley on the Des Moines Valley branch of the Rock Island. Mail bids can be sent to C. C. Carlin, of The Homestead, in care of A. Kool. Address requests for catalog to A. Kool, Cordova, Iowa.

EXTRAORDINARY SHORT-HORN DISPERSION SALE



TO BE HELD AT THE FARM NEAR

MORLEY, IOWA, THURSDAY, OCTOBER 9, 1913

50 HEAD: 10 BULLS 40 FEMALES 50

THE bulls include Diamond King and Sterling Scottie, the two herd bulls we have been using so successfully. Diamond King has been rated by the best of breeders and judges as one of the great sires of the breed. He will do someone a world of good as he is very vigorous and sure. Sterling Scottie is a grand young bull that should head some good herd. Among the females Roan Lady, a 4-year-old daughter of Diamond King, is rated by many as the best Short-horn cow to be sold at public auction this year. She will weigh about 1,800 pounds and is every inch a show cow. Practically the entire offering is of the very best Scotch breeding. The Red Rose, Nonpareil, Fairy Queen, Beauty, Eliza, Flora, Ury and many other equally popular Scotch families are represented. We want you to write us for our catalog at once, mentioning Homestead. Auctioneers, Woods, Burge and Brock.

MILLER & NORTHY - - - MORLEY, IOWA

William Reed's Great Duroc Sale

To be held at the farm adjoining Rose Hill, Iowa,

Wednesday, October 8, 1913

50 HEAD 50

THE offering consists of three fall boars, twenty-two spring boars, six fall sows and nineteen spring gilts. The fall boars are sired by Reed's Top Col. and Chief Select. Among the fall boars is one extra large, heavy-boned, high-backed boar with plenty of quality, sired by Reed's Top Col., that will make a herd boar. The spring boars are an extra good lot and among them is one outstanding good pig sired by Chief select and out of Fair Wonder 2d by J. C.'s Model Chief. There are six mangnificent fall sows by Reed's Top Col. and twenty extra spring gilts sired by Reed's Top Col. and Chief Select. This is by far the best offering of gilts I have ever put up. Write me for catalog mentioning The Homestead.

WILLIAM REED - - - ROSE HILL, IOWA

Auctioneers, Kraschel, Allen and Putman

KOOL'S POLAND CHINA SALE

TO BE HELD AT THE FARM NEAR

CORDOVA, IA., WEDNESDAY, OCT. 8, '13

THE sale will include three fall gilts, thirteen fall boars and twenty spring boars. The offering is almost entirely the get of Big Victor's Improver and Jumbo, but there will be one spring boar by the $1,500 Smooth Wonder 2d. The dams are mostly by Big Victor's Improver, but there are four out of Queen 1st, a 900-pound daughter of Lentz' Dandy Jim, two out of Lady Lightfoot 29th by Jumbo, five out of Lady A by Big King and five out of King's Lady 2d by Big King. The consignment is of high-class, big-type quality, in fair flesh and thrifty, growing condition. Send mail bids to C. C. Carlin, of The Homestead, in my care. Col. W. B. Duncan, auctioneer. For catalogs address.

A. KOOL - - - CORDOVA, IOWA

PAULSEN'S GREATEST HAMPSHIRE BOAR SALE

----- WILL BE HELD AT -----

FREMONT, NEBRASKA, FRIDAY, OCTOBER 10, 1913

65 BOARS GO IN THIS SALE 65

EVERY one of the sixty-five boars that go in this sale has been carefully selected, and not a thing but of exceptional value will be included. They are every one from the Paulsen herd and by sires of national reputation, among them the great Everett True 3d, Nebraska Top and Paulsen's Chief by Gen. Allen. They are out of one of the greatest lines of brood sows in America and they have all passed through the disease and are considered immune. They are all of good strong ages, being yearling and fall boars. Come to this sale if possible, or send bids to J. C. Price, representing The Homestead. Colonels Kraschel and Reppert, auctioneers. Send for catalog today. Address

C. P. PAULSEN - - - - NORA, NEBRASKA

BLAKE'S POLAND CHINA SALE

ON THE FARM NEAR

DALLAS CENTER, IOWA, OCT. 13, 1913

I AM putting into this sale a consignment of forty-five head of Poland Chinas that are just about as good as any offering of the season will contain, although their merit is not concealed by high flesh or fancy fitting. I am putting in my herd boar, Smooth Wonder Again, because I cannot use him longer to any advantage. There will be twelve fall boars by Long King, Smooth Wonder 2d Jr., and Columbia Chief 3d Jr., out of dams of Smooth Wonder, Chief Price and A Wonder breeding. There will be twenty-two spring boars by Long King, L.'s Big Bone, Smooth Wonder Again, H.'s Big Bone and Big Nelson, out of dams of Smooth Wonder, Chief Price and other popular lines of breeding. Eight fall sows are by Long King, Smooth Wonder Jr., and Columbia Chief 3d. Their dams are of much the same breeding as that already referred to. One of these will have been bred to L.'s Big Bone for October litter and the other to Woodrow Wilson, a fifth-prize Iowa State Fair winner, for a November litter. Col. H. S. Duncan, auctioneer. Send mail bids to C. C. Carlin, care of The Homestead. Free transportation from Waukee to the farm. For catalogs address.

R. R. BLAKE - - - DALLAS CENTER, IOWA

LIVE STOCK AUCTIONEERS.

H. S. ALLEN, RUSSELL, IA.

LIVE STOCK AUCTIONEER

HAVE sold in four states during the past season. Have bred Duroc Jersey hogs for the past 15 years. No man is better posted in Duroc Jersey pedigrees. Already have a nice line of sales booked for some of the best breeders. Write for dates and prices.

C. O. LOWRY, EDGAR, NEBRASKA

AUCTIONEER

PURE bred stock and farm sales a specialty. Am posted on pedigrees, individuality and values, been a breeder of pure bred stock the past sixteen years. Have held several sales of my own, besides crying sales for other people. Your patronage solicited, and fair and square treatment guaranteed. Write or wire for terms and dates, terms reasonable.

FRED REPPERT
LIVE STOCK AUCTIONEER

Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

DECATUR, IND.

COL. H. L. IGLEHEART

Elizabethtown, Kentucky

LIVE STOCK AUCTIONEER

POSTED on pedigrees, individuality and values. Write or wire for dates far enough ahead of time—I am a busy man. Mention The Homestead.

LIVE STOCK AUCTIONEER

CAREY M. JONES

14 N. Sacramento Blvd., Chicago, Illinois

Z. S. BRANSON AUCTIONEER

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Office First National Bank Bldg., Lincoln, Nebraska

L. A. MATERN, WESLEY, IA.

LIVE STOCK AUCTIONEER

POSTED in all breeds of cattle, horses and hogs. Made sales for most leading breeders in northern Iowa. Also sales farm and real estate auctioneer. Write me for dates.

GEO. H. BURGE

AUCTIONEER
PEDIGREED LIVE STOCK

MT. VERNON - - - IOWA

E. D. SNELL

AUCTIONEER

CAMBRIDGE - - - NEB.

(If it's results you wish, let's talk it over)

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15 Years' Experience
Bell Phone 124

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GRADUATE auctioneer, reliable, experienced and successful wants to learn of community in need of auctioneer. Reference supplied to anyone interested. Address

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A. S. ALEXANDER, V. S.,

MADISON, WISCONSIN

Veterinary Editor The Homestead.

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N. G. KRASCHEL

HARLAN, IOWA.

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I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

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TRAVEL over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the actual practice school which opens October 6, 1913.

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GRADUATE of Animal Husbandry Dept. at Ames. 8 years' experience and lots of good sales. For terms and dates address

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Care of Citizens National Bank

B. H. Keck, Mt. Pulaski, Ill.

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WRITE for terms and dates. Experience, reliability and satisfaction. Mention this paper when writing.

W. F. STRATTON

NEVADA, IOWA

AUCTIONEER of Pure-Bred Stock and Real Estate. No man is better posted on pedigrees and values. I solicit your sales. 24 years' experience.

W. J. Thompson, Dorchester, Neb.

PEDIGREED LIVE STOCK AUCTIONEER

PROPRIETOR Elmwood Pony Farm. Shetland ponies for sale. Write for dates and information.

OLIVER S. JOHNSON

The Iowa Auctioneer

TIPTON - Cedar County - IOWA

GENE FAGAN, AUCTIONEER

PEDIGREED LIVE STOCK
153 SALES LAST SEASON
985 11th ST., MARION, IOWA

E. Z. Russell, Lincoln, Neb.

LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

J. H. BARR, Hebron, Neb.

Auctioneer

Pedigreed live stock a specialty. Write for dates.

HORSES.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST Send for our handsomely illustrated catalog. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS

MAASDAM & WHEELER

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PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a gr and bunch of mares and fillies. Mares are all in foal to imported stallions. All of my prize winners at the recent Iowa State Fair are for sale. I can show buyers more horses for the money than my competitors. Visit or write me your wants mentioning Homestead. Farm ½ mile from town.

R. F. FRENCH - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

Your Profits

would be big from the class of stallions you have in mind. From my big bunch of registered Percherons, weanlings to 4-yr.-olds, you would get just that horse measuring up to your expectations. Breeder's prices. Earlier the better.

FRED CHANDLER
Route 7, Chariton, Iowa

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Ea. a splendid animal and offered a extremely low prices. Call or write **V. W. HARMS, FAIRBURY, ILL.**

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300 SHETLAND and Welsh ponies for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

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Published Weekly, at Des Moines, Iowa, required by the Act of August 24, 1912.

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J. W. WICKHAM,
Assist. Bus. Manager.

Sworn to and subscribed before me this 26th day of September, 1913.
THOMAS E. COX,
Notary Public in and for Polk County, Iowa.
(My commission expires July 4, 1915.)
(Seal)

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A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address
HENRY LEFEBURE - FAIRFAX, IOWA
Eight miles west of Cedar Rapids.

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Percheron, Belgian and Shire Stallions and Mares

ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from.

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Purchase Percherons

NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.
BUY THREE IN ONE
See the mares in pasture or infield work.
See the kind of colts they are suckling.
You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

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After October 15th,

PERCHERON STALLIONS

from 2 to 5 years old. **Singmaster & Walker,** at Stock Yards, Sioux City, Iowa.

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18 Shetland Ponies For Sale

I HAVE three stallions, one stud colt and fourteen mares and sucklings. Will make special prices on these to move them. Write me at once.
H. W. LITTLETON - HARLAN, IOWA

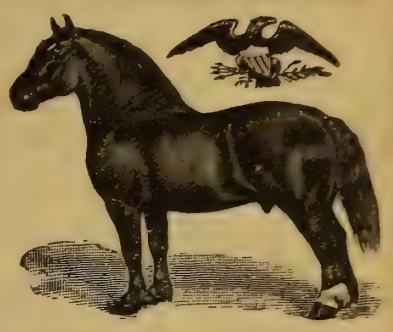
AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

HOLBERT HORSE IMPORTING COMPANY

PERCHERONS BELGIANS SHIRES

NEW IMPORTATIONS CONSTANTLY ARRIVING



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Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

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10 HEREFORD HERD HEADER BULLS

AVERAGING 12 months old, weighing from 1,000 to 1,200, in good condition, now offered for sale. Intensely bred Anxiety 4th bulls with good bone, heavy hind quarters and droop horns. By Beau Gondoline, Rex Onward 4th and Bright Lad from Beau Donald 12th and Beau Brighton dams. We also have 50 head of the plainer sort of registered Hereford bulls. **A. SPOONER & SONS, MONDAMIN, IA.**

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A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
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ABERDEEN-ANGUS

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WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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I HAVE a few yearling and two-year-old Angus heifers for sale, also three toppy bull calves that were calved in January.
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ANGUS BULLS: A few bulls of desirable ages and of best breeding. Address H. W. Ehlers, Roca Neb.

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STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R
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IF you want the best Galloway cattle—Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Chariton, Iowa.**

Ask your neighbor to subscriber for The Homestead.

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. R. Danforth, Little Cedar, Ia

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POLLED DURHAM CATTLE.

D. S. Polled Durhams, reds and roans, both sex. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

SHORT-HORN CATTLE.

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods**, and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address
HOWELL REES & SONS, - - PILGER, NEB.

4--Good Young Scotch Bulls For Sale--4

I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address
GEO. H. WHITE, - - EMERSON, IA.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead,
GEORGE D. HARRAH, NEWTON, IOWA

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

WILDWOOD SULTAN 387390 For Sale

SECOND prize Junior Short-horn yearling at 1913 Iowa State Fair. Also five ten to fifteen months thick meated and growthy calves.
W. W. VAUGHN & SON, MARION, IOWA

SHORT-HORN BULLS

SOME excellent bulls of serviceable ages. Pure Scotch, others Scotch topped. Good breeding, best of individuals and at farmers' prices. Address
J. H. HARPER - - BENNET, NEBRASKA

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
W. M. MYERS - - BEAMAN, IOWA.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.
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WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
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SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

LITTLE'S BATES Short-Horns

BEST milking strains of the most noted and popular breeding of the Bates Breed. Choice bull calf for sale. Also breeder fancy Duroc Jersey hogs.
B. W. LITTLE - JANESVILLE, WIS.

Cedar Hill Short-horns

SOME extra good yearling bulls sired by the 2,200-lb. Secret Hero; also a pure Scotch herd bull. We keep a great line of heavy milking cows. Mention The Homestead and address
IRVIN E. WILSON, BELVIDERE, NEB.

Short-Horn Bulls

FOR SALE. Reds and roans sired by Mr. Robin 338773, a richly bred Marr Missie. Address for prices, mentioning The Homestead,
I. H. Whitman - - - - Lisbon, Iowa

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
J. E. Barr, R. F. D. 4, Davenport, Iowa.

SHORT-HORN CATALOGS

COMPILED and printed. Thirty-five years' experience with pedigrees enables me to do good work. Write for samples and prices. Some pure Scotch heifers for sale.
FRANK P. HEALY - BEDFORD, IOWA

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

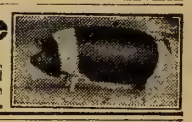
MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
H. D. DE KALB, DE KALB, IOWA.

Sunny Slope Hampshire Swine



200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and Interna tional Exposition the past five years, 250 head on hand; 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address
WOOD & WESCOTT - - SHEFFIELD, ILLINOIS

Fisher's Prize Winning Hampshires

THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address
ROY E. FISHER - - WINSIDE, NEBRASKA

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address
A. L. DIEHL, BENEDICT, YORK CO., NEB.

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonble. Mention Homestead when waiting. **F. O. Peterson, Galva, Ia.**

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.
Geo. T. Pearce & Son - Bloomfield, Iowa.

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
J. E. BECKENDORF, WALNUT, IA.

Causman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.
C. H. GAUSMAN - SEWARD, NEB.

Wigstone Bros'. Great Sale

BIG-TYPE POLAND CHINAS

RED OAK, IOWA, OCT. 11, 1913

50 Head, 19 Boars, 31 Choice Sows---50

NINETEEN choice boars in sale—17 spring boars and 2 fall boars. A January boar sired by Chief Price Again 2d is one of the best boars to be sold this year. A March boar by same sire out of W.'s Lady Wonder is also a corker. Also some splendid boars sired by Big Jones 3d. We are selling some wonderful brood sows in our sale, several of which will have litters at side by Chief Price Again 2d, and 25 of the best big-type gilts that will be sold this fall. It is a great offering from one end to the other. Not a cull in the entire offering. Write for catalog and mention The Homestead. Address

WIGSTONE BROS. - STANTON, IOWA
H. S. Duncan, Auctioneer **M. T. White, Fieldman for Homestead**

HAMPSHIRE SWINE.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
Billie McFarland - - - Syracuse, Neb.

TATRO'S PRIZE-WINNERS

HAMPSHIRE boars and gilts sired by Allen of Geneva and other high class boars for sale at moderate prices. I offer more prizewinning blood than will be found elsewhere and good individuals with it. Address
F. C. TATRO, GENEVA, NEB.

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address
L. F. TETER - SHICKLEY, NEBRASKA

HAMPSHIRE BOARS Best of breeding and splendid individuals. Farmers' prices to move these boars quickly. Address C. S. Bratt, Arapahoe, Nebraska.

VALLEY VIEW Hampshires, either sex. Satisfied customers. Spring boars ready for service. 1 2-yr-old boar, sale or trade. Fred Wheeler, St. Charles, Ia.

JONES HAMPSHIRES--- Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

HAMPSHIRE BOARS, SHROPSHIRE SHEEP and geese for sale. Mrs. Helen Coleman, Mt. Pleasant, Iowa.

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale. We are pioneer breeders of Nebraska. Write today
J. W. COX & SON - ARAPAHOE, NEB

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio.

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

TAMWORTH SWINE.

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

A. S. ALEXANDER, V. S.,

MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

POLAND CHINA SWINE.

BIG-TYPE POLAND BOARS

20 FALL BOARS weighing 300 to 450 pounds, sired by the 1,000-pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. My herd has been immuned with the double treatment. Mention The Homestead when writing.
E. W. KREISCHER, MT. VERNON, IOWA

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices Address
JOHN I. DRIPPS - SPRINGVILLE, IOWA

FRANCISCO'S

Combination Polands

SOME very fine spring boars by Young Combination, also some extra select fall boars by Great Victor. Only the best have been reserved, and they are priced to move. Write me for a bargain.
C. W. FRANCISCO, INLAND, NEB.

BIG-TYPE POLANDS

FALL and spring boars now ready to ship. Sired by Highland Boy 18319], weighing 800 lbs. Just in breeding condition. My hogs are bred for size, bone and quality. Write me your wants and I can please you.
H. A. Wohlsdorf, - R. 1, Lawler, Iowa

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address
Homer L. Faulkner, Box 117, Jamesport, Mo.
Not the originator, but the preserver.

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.
O. J. SATRE - - - JEWELL, IOWA.

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires; Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

POLAND CHINA SWINE.

COOPER'S ANNUAL SALE, BIG-TYPE POLAND CHINA BOARS and GILTS

HEDRICK, IOWA, TUESDAY, OCTOBER 7, 1913

WE will sell on this date, the most select draft of boars and gilts we have ever made from our herd. There will be no tail enders, but all top stuff. If you are interested in the best there is in big breeding, and big hogs with quality, come. We assure you no disappointment. They will be sired by Big Bone 2d, Chief Leader, Big Expansion, Ideal Chief, and other noted boars of the breed, from 300-pound yearling sows to sows weighing 800 and over. Send for our catalog. It tells all.

W. H. COOPER - - - - - - - - - **HEDRICK, IOWA**

BLUE VALLEY HERD OF POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for discription and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. March and April pigs, either sex, now ready to ship. $20.00 to $35.00. Best breeding, highest quality.

J. D. Gates & Sons, Ravenwood, Mo.

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - - - - - **OCHEYEDAN, IOWA**

Fesenmeyer's A Wonder---Big Joe Boars

I HAVE a few choice boars for sale sired by old **A Wonder, Big Joe** and other good boars. Write me about these at once. Address

HENRY FESENMEYER - - - - - - - - - **CLARINDA, IOWA**

SPRING BOARS by NEBRASKA WONDER

OUR entire spring crop of Poland China boars for sale at private treaty. These are fully equal to the sensational lot of fall boars we sold last spring. They are from as good stock as within the state. Write us today and we will try to save you some money. Address, mentioning The Homestead.

BEALL & JACKSON - - - - - **ROCA, NEBRASKA**

THE CHAMPION AGAIN EXPANSION

HEADS our Poland China herd. We have some of the best spring boars that we ever raised for sale. They are by Big Bone, T. A. Sampson, Again Expansion and Mabel's Wonder. Everything has passed through the disease. None better anywhere and prices the lowest. Address

C. B. POWERS, - - - - - **AURORA, NEB.**

EXTRA BIG POLAND CHINA BOARS

WE have a number of Poland China spring boars, the extra big ones. Quite a number bred by Peter Mouw, the remainder just as big and heavy boned and sired by a son of Herod, he a litter mate to the famous Samson. None better anywhere and we would like to move them soon. Write or come and see.

W. H. DEIGAN - - - - - **RAYMOND, NEBRASKA**

BLUE RIBBON POLAND CHINAS

FOR the next thirty days I will name a price on the choice of my forty Poland China spring boars of $25. Others just as good but a little younger at $20. This is not money enough for this class of hogs, but I have them to sell and want them to go quick. They are all sired by Blue Ribbon Hastings, a prize-winner wherever shown. If in search of something toppy and at small money, write me. Mention Homestead.

W. J. EAVEY - - - - - **GENEVA, NEBRASKA**

POLAND CHINA BARGAINS

AM making special prices to move the choice bunch of early spring boars on our farm. They are great big, smooth fellows of excellent breeding and go at $25 and $30. Also the finest kind of a bunch of fall pigs that go at $12.50 for choice ones at weaning time. Address today, mentioning The Iowa Homestead.

JOHN L. NAIMAN - - - - - **ALEXANDRIA, NEB.**

C. F. ADAMS' SALE OCTOBER 9, 1913

I WILL sell 40 Poland China boars, the best I have ever offered and also a fall yearling by Peter Mouw's Big Jumbo. These are the biggest, best, longest, heaviest bone pigs I have ever owned. Many prospects for 1,000 pound herd boars. Write for catalog.

C. F. ADAMS - - - - **OWASA, IOWA**

OAKWOOD FARM POLAND CHINAS

C. H. PORTER - EAGLE GROVE, IOWA

MY entire herd have been given the simultaneous treatment and are now in good thrift and cholera proof. Boars as big and good as anybody has for sale, and of the line of breeding that never fails to get them big and good, the real size and quality kind. They are better than I have raised before.

AN EXCELLENT HERD BOAR FOR SALE

ONE of the very best Poland China boars within the state. A proven breeder, excellent make up, and of splendid pedigree. Competent judges pronounce him absolutely as good as to be had. Also spring boars sired by him. Write me today for breeding and prices. Mention The Homestead.

J. A. JACKSON, - - - - **RAYMOND NEB.**

MAMMOTH SMOOTH POLANDS. THE SMITH KIND

THIRTY-five head of the very select of our spring boars are for sale. They are as well bred as the breed affords and for size and smoothness and feeding quality, they can't be beat. Write us today, mentioning Homestead. **ALBERT SMITH & SONS** - - - - - **SUPERIOR, NEB.**

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 184793 and F. s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495.

DAVENPORT & MACK, BELMOND, IOWA

BIG-TYPE POLANDS

I HAVE a grand lot of March and April boars and gilts sired by **Quality King,** a grandson of Long King and **O. K. Price,** by Chief Again Price, also a few open yearling sows. I breed for size and quality. Herd largely of Mouw, Lawson, Johnson and Wheeler breeding. My prices are low and my hogs will please you. Mention Homestead when writing.

H. CRABTREE, - - - **BAXTER, IOWA.**

MAPLE GROVE POLANDS

SPRING boars sired by Maple Grove Exception and Columbus Again. These are out of sows that are of the very best blood lines, and have made good as brood sows. Address

WM. McCURDY - **TOBIAS, NEB.**

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson o Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

FOUR HIGH-CLASS Poland China Fall Boars

I AM offering four splendid fall boars for sale, sired by the 1,000 lb. boar, **Big Orange,** and **Colossus.** Two of these are out of Colossus and A Wonder dams and two are out of a Giantess dam. Also thirty spring boars by Big Orange and Colossus. Write me for prices and mention Iowa Homestead. Address

L. R. M'CLARNON - - - - - **BRADDYVILLE, IOWA**

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - - **MINDEN, NEBRASKA.**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them over or write. Address

J. R. HIGGINS & SON - - - - - - - **DEWITT, NEB.**

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - - - - **KELLEY, IOWA**

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

KELLEY, IOWA

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead.

WM. KEEP - - - - - **ATLANTIC, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.

A. ROESLER, - - - - **WILCOX, NEB.**

SNYDER'S EXTRA BIG POLANDS

A CHOICE lot of extra big spring boars by well-known sires and out of sows of choice individuality and blood lines. I wish to close these boars out within the next thirty days and am pricing them accordingly. If you want big hogs for little money write me.

PERRY A. SNYDER - - - - **CARLETON, NEBRASKA**

35 Choice Poland China Boars 35

I AM offering 35 head of the best big-type Poland China boars I have ever raised. These go at reasonable prices if ordered soon. Address, mentioning The Homestead.

FRED SEXSMITH - - - - **ORIENT, IOWA**

FRAZER'S BIG POLANDS

WE have a choice lot of extra big, big-boned spring boars that we wish to move soon. They are sired by the great breeding boars, Big Jumbo and Orient. These boars are the best we could find or buy. A boar by them will assist in building up your herd, and they are priced right. Mention Homestead.

FRAZER BROS. - - - - **WACO, NEBRASKA**

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address **J. A. BEAUMASTER, ELMA, IOWA**

MARMION'S BIG POLAND CHINAS

I CAN furnish you with as good a pig as can be found in the corn belt. Pigs sired by five of the best boars of the breed, some by one of the good sons of Hood's Giant and out of a Long King sow. Also a litter by Big Knox.

B. F. MARMION - - **R. F. D. 2, FARMINGTON, IOWA**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - - **R. F. D. 1, YORK, NEBRASKA**

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., Rt 2, box 76, Lawler, Iowa.

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.

JOHN H. FITCH - - - **LAKE CITY, IA**

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Big Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - **GRINNELL, IOWA**

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once

A.B.Heckenlively - - - **Cozad, Nebraska**

MAPLEWOOD
CHESTER WHITE SALE

To be held on the farm near Ankeny, Iowa,

Tuesday, Oct. 14, 1913

This is a Sale of Premier Hogs of Strictly Choice Lines of Breeding

THE consignment includes six mature tried brood sows, eighteen fall yearling sows, fourteen spring gilts, fall yearling boars and spring boars. They are the get of O. K. Perfection, Prince B., Grand Leader, High Honor, New Hampton Regulator and St. John. These boars are either champions or sons of champions. The dams are equally as well bred and trace to the best herds in the land. This is the biggest and best sale of the year. It contains breeding animals with show-ring quality. Cols. C. C. Evans and C. E. Luther, auctioneers. Send mail or wire bids to C. C. Carlin, of The Homestead, in my care. Catalogs now ready. Absolute health and thrift.

M. W. YOUNG - - ANKENY, IOWA

CHESTER WHITE SWINE.

GRAND VIEW CHESTERS

GOOD ONES, March and April pigs, sired by **Ben Hur 20329** by Chief's Council 16397 by Chickasaw Chief 14901 and **Fancy Goods 20327** by Major Jr. 19297. Aberdeen Angus cattle. 2 Blackbird bulls for sale. Write for prices.
T. A. STEVENSON - - - SHANNON CITY, IOWA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stiltsworth, R. F. D. 4, Knoxville, Iowa

Prizewinning Chester Whites

A FINE lot of extra choice spring boars, also gilts and sows for sale. Mostly the get of the great Keep On Winner. Write today.
H. L. BODE - - - FRIEND, NEB.

BIG, SMOOTH CHESTER WHITES

WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

MURRAY'S CHESTER WHITES

CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
CHAS. H. MURRAY - FRIEND, NEB.

50 CHESTER WHITE

SPRING and winter boars, wonderful length strong back and feet, best of head and ears. 50 spring and winter gilts. These hogs carry the choicest blood lines of the breed. Priced to sell. Address
HARRY HURLESS - OGDEN, IOWA

LENGTHY, rangy good boned Chester White pigs, either sex, weight 100 to 160 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

CHESTER Whites and Shropshire bucks. Boars ready for service, and sows, gilts and spring pigs. Write Bert A. Randell, Mt. Zion, Ia.

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
J. L. Thatcher, Manager.

BERKSHIRES—We can supply your wants in choice boars and sows of April farrow. Pairs and trios not akin, representing as good a line of breeding as you will find. Will please you or no sale. Orlando Jacobs & Son, R. 4, New London, Iowa.

BERKSHIRES

BOARS in service are Longfellow's Premier by Premier Longfellow 68600, Baron Peabody 10th by Baron Duke 88th 91888. Forty fall and spring boars for sale. Mention Homestead and address
GEO. PORTER - STANTON, NEB.

12 BERKSHIRE BOARS FOR SALE

I HAVE two splendid fall boars and 22 good spring boars for sale. These are sired by Rob Roy 10th, a prize winner at Des Moines, and Model Master 2d. Write me at once for prices.
H. L. KEMP - - - HARLAN, IOWA

When writing to advertisers please mention The Homestead.

C. C. EVANS

LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
W. H. DUNBAR, JEFFERSON, IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

CHESTER WHITE BOARS

FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vandersllce Bros., Cheney, Nebraska

CHESTER WHITE BOARS

I HAVE a fine lot of March and April boars sired by Joe O. K., Perfection Chief, Chief Combination, Silver Tip and Elmore's Choice that I will sell very reasonable. I guarantee the boars to please you or you can send them back. Mention Homestead.
H. T. D. HENDERSON - KEOTA, IOWA

PLAINVIEW CHOICE BOARS

CHESTER White fall and spring boars by the great Plainview Choice. Also some Shorthorn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

ROGERS' O. I. C.'s Positively as good as any. Prices moderate. For an extra select boar, write N. R. Rogers, Peru, Neb.

CHESTER WHITE SWINE.

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead.
WM. A. HOOVER, OSKALOOSA, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - ELLSWORTH, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - PRESCOTT, IOWA.

Nagle's Prize-Winning Chester Whites

WE have a fine lot of boars and gilts sired by our Prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
E. L. NAGLE & SON - - - - - DEEP RIVER, IA.

SUNNY SLOPE CHESTER WHITES

160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow, sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
W. E. GAFFEY - - - - - STORM LAKE, IOWA

Stewart's Immune Chester White Boars

I AM offering 60 head of the best boars you have ever seen for the money, sired by my splendid herd boars Iowa Boy and Crescent. These have all been vaccinated and are immune. Write me at once for description and prices, and mention Iowa Homestead. Address
J. H. STEWART, - - DICKENS, IOWA

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - FARMINGTON, IOWA

I SHIP C. O. D.

CHOICE Chester White swine. Either sex, Pairs, no akin. On account of dry season in this section and must buy feed I am offering choice, growthy spring pigs of best breeding at special low prices for thirty days ending November 1st. Also booking orders for fall pigs at $5.00 each, crating and pedigrees free. I have new blood for old customers. **GLENN F. RIDER - - FARMINGTON, IOWA**

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent young boars, some choice herd headers. Also 50 good spring boars. These pigs have been immuned. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

SATRE'S HIGH-CLASS CHESTER WHITES

FARMERS' pigs at Farmers' prices. Herd boars of best breeding and quality, and that have won at Iowa State Fair. Brood sows by Chief Select and other sires of note. Come and see me or write for prices.
G. O. SATRE - - - - - - - - - JEWELL, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
AMOS TURNER - WILBUR, NEB.

Bloom's Chester Whites

25 HEAD of choice fall boars by Pathfinder 2d, Pride of the West and other good boars. Size, heavy bone and good. Immune from double treatment. Call and see these hogs or write to
EARL BLOOM - BRIDGEWATER, IOWA

Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

Crosier's Chester Whites

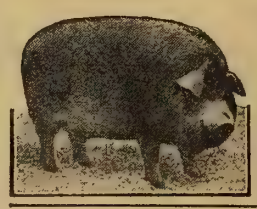
WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

BARR'S CHESTER WHITES

VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
W. T. BARR - - - AMES, IOWA

O.I.C. Spring pigs, either sex. Express prepaid. Address
W. Doolittle; Woodland, Mo.

DUROC JERSEY SWINE.



Big Duroc Boars By Wilson's Defender

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am selling at $25 and $30 each. These pigs weigh from 150 to 180 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. I have four sows to farrow in September that I am pricing reasonable. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. If the hog don't suit send him back and get your money. Mention The Homestead when writing.
I. J. WILSON, WEST BRANCH IOWA

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model II., Crimson Ohio Chief, Crimson Chief II. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - FREDERIKA, IOWA

Duroc Jersey Fall Boars

VACCINATED with the double treatment. Choice breeding lines. For sale at reasonable prices
L. L. DE YOUNG - SHELDON, IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - DICKENS, IOWA

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

FOR SALE

CHOICE Duroc Jersey spring boars, by Ohio Col., Lafollette's Last, Model Goods and Model Hogates at $15.00 and $25.00.
A. H. HANENKAMP - HICKMAN, NEB.

50 Immune 50 DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
WILL BAUER - - - AUDUBON, IOWA

DUROC JERSEY SWINE.

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address
R. J. HARDING - - - - - - - - MACEDONIA, IOWA

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address
B. W. HUNT - - - - - - - - - DENISON, IOWA

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th sired boar. Order at once, write or come see. Farm adjoins town.
A. T. BOSELY - - - - - - FAIRBURY, NEBRASKA

MERRICK'S DUROC JERSEY BOARS

ARE the kind that will make good on your farm. They are as well bred as possible to obtain and they are individually of the right sort. Farmers' prices will take these good ones if ordered at once. Write for prices and description at once. Address, mentioning The Homestead.
F. E. MERRICK - - - - OSCEOLA, NEB.

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - - - MARQUETTE, NEBRASKA.

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - - - SYRACUSE, NEBRASKA

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - - GRISWOLD, IOWA.

PRIZE WINNING DUROCS

WE have a number of extra good boar pigs sired by Model Wonder, Proud Col and Wonder's Model, all Iowa State Fair winners and out of sows of the most approved blood lines. Our herd has produced winners at the Iowa State Fair continuously for five years. It is this breeding we offer you at reasonable prices. Mention Homestead when writing.
HANKS & BISHOP - - - - NEW LONDON, IA

25---DUROC JERSEY BOARS---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address
E. A. CALKINS - - - - - - RUTHVEN, IOWA

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - DE WITT, NEBRASKA

60 Extra Choice Duroc Jersey Boars

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select,** and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Write me or come and see these boars. Kindly mention Iowa Homestead. Address
H. S. FAIN - - - - EMMETSBURG, IA.

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - ALEDO, ILLINOIS

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

50 Immune Duroc Jersey Boars

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr.. Splendid boars at $25 and $30. Everything vaccinated and ready to ship.
HEIKO GRUIS - GEORGE, IOWA

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

12 DUROC JERSEY FALL BOARS

I AM offering 12 good fall boars for sale sired by Col. Seek 114971, out of Critic and Grandmaster Col. sows. Will also sell Golden Model XI. Write me for prices at once. Address
H. V. CRONK - - - WATERBURY, NEB.

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

Growthy Duroc Jerseys

SPRING boars by R. J.'s Chief and King Gano, out of dams of strong Crimson Wonder and Model Chief breeding. Big-bone, size, quality and finish. Good pigs at fair prices.
J. C. PORTER, OGDEN, BOONE CO., IA.

Duroc Jersey Boars

WE have fall and spring boars that have quality, that we are closing out. A number of these are prospects for herd boars. Satisfaction guaranteed.
J. H. Berry & Sons, R.F.D. 6, Iowa City, Ia.

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - AMES, IOWA

Boars For Sale

Sired by CRIMSON WONDER AGAIN

MODEL Chief 8th and Cherry Chief. Big, husky fellows with bone and size. Priced to move them. Address
H. S. ALLEN - - RUSSELL, IOWA

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder and out of choice sows, Also some by the great Wilde's Wonder. Prices to move these hogs early. Write today. Address
WM. BORNEMEIER - ELMWOOD, NEB.

DUROC JERSEY SOWS

BRED for August and September farrow to some of the best sires of the breed. 180 spring pigs. Male pigs for sale at reasonable prices. Gilts reserved for winter sale.
F. CHRISTENSEN, FAIRMONT, MINN.

DUROC GILTS, $15 to $30

I HAVE a choice lot of early and late spring gilts; also some fall gilts that I will sell at above prices. Will also breed them for small sum additional. A few spring boars. Address
WM. RETZLAFF, BENNETT, NEBRASKA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - WOODWARD, IA.

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - West Liberty, Iowa

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

KING GANO 13311

1st Prize Junior Yearling at Des Moines

I AM offering **40 BOARS FOR SALE,** most of which are sired by **King Gano 13311,** the 1st prize junior yearling at Des Moines, 1913, and the greatest yearling ever seen at the fair. He weighs 725 lbs. at 17 months and is the sensation of the year. Write me about these boars at once and mention The Iowa Homestead. Address
O. E. OSBORN - - - - - WESTON, IOWA

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - ALGONA, IOWA

HIGH-CLASS DUROC JERSEY BOARS

BOARS of early spring farrow, sired by R. & J.'s Golden Model, by Golden Model 2d, also Critic B. the grand champion at Lincoln, 1912. They are out of as high class sows as will be found in the corn belt. For prices address, mentioning The Iowa Homestead,
A. J. REGIER - - - - HENDERSON, NEBRASKA

30 High-class Duroc Jersey Boars 30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, G.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $20 to $40 if ordered soon.
R. F. AIKMAN - - - - - AUDUBON, IOWA

20 Immune Duroc Jersey Fall Boars 20

THESE are extra choice boars sired by Golden Model 3d and out of my best sows. 50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Everything has been vaccinated and are immune. Order at once. Address
GEORGE C. EVERTS - - - - AUDUBON, IOWA.

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address
F. H. DICKEY, EMMETSBURG, IOWA

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. **Weighed 1,055 pounds on July 24, 1913.** He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you if you come to the farm. Address
J. B. ASHBY - - - - AUDUBON, IOWA

60 CHOICE DUROC JERSEY BOARS

FOR this season's trade. Sired by such hogs as Highland K, (junior yearling champion at International, 1910), Prince Model, Col. Freed and other good ones. All line-bred Col. boars and out of dams by Prince Model, Model Defender, Col. Model, Regulas and others. I am pricing these boars right and solicit your patronage. Address, mentioning The Iowa Homestead.
M. A. McWILLIAMS - - - - - SUNNYSIDE STOCK FARM, WALL LAKE, IOWA

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's I Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - STORY CITY, IOWA

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - - IRETON, IOWA

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

WELL BRED DUROCS

WE have the best lot of boars for sale that we have ever offered. They are sired by Chief Select, Jr., 103747; B. & S. Golden Model, 129083; Model Chief, Jr., 130319 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write us for prices if you want a good boar reasonable. Mention Homestead
BALMAT & SWALE
Mason City, Iowa, and Fredericksburg, Iowa.

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,
P. W. WEBERG - DENISON, IOWA

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

DUROC JERSEY BOARS

I HAVE a fine lot of fall and spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - VICTOR, IOWA

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfield's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - FAIRMONT, NEB.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right,
J. S. SNETHEN - DAVIS CITY, IOWA.

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

When writing to advertisers please mention The Homestead.

B-U-S-T-E-D!

ROOFING LUMBER PRICES WIRE and FENCING BUILDING MATERIAL

No Money Down

Our Great FALL Announcement

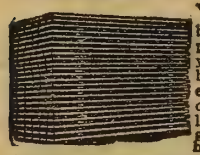
You can order a complete carload of material including everything you need to construct a building and we will ship it forward to you without you paying us a cent down.

Write Us for Our Liberal Terms

You are safe when you deal with us. Our capital stock is $10,000,000.00 and 20 years of honest dealing have earned a place for us in the public confidence that is unquestioned.

You can buy a carload of Building Material from us without paying us one cent in advance. All we want to know is that the money will be paid us as soon as the material is received, unloaded and checked up. Our terms are more liberal than anyone else offers.

Lumber Prices S-m-a-s-h-e-d



Yes, we mean smashed. Absolutely busted to pieces. That's our policy. We quote prices on lumber that will positively save you big money. If you will send your lumber bill we will send you a freight paid estimate that will mean a saving to you of from 30% to 50%. Every stick is absolutely first class, brand new and fully up-to-grade such as you would buy from any reputable house in the United States.

We have determined that the Fall of 1913 is going to be the Banner Season in our great lumber department. We have on hand 20,000,000 feet of high-grade lumber suitable for the construction of Buildings, no matter for what purpose intended. Come to our great yards in Chicago and let us show you this stuff actually in stock. No other concern in the world has a more complete stock of everything needed to build, whether Lumber, Shingles, Structural Iron, Plumbing, Heating, Doors or anything else that you may need. Do you know that lumber is getting scarcer and scarcer every year? Yet our prices are lowest and will continue so until our stock is gone. WRITE TODAY.

Shingles at Big Saving

We have a special lot of 1,000,000 5 to 2 10 inch Clear Shingles on which we are making an exceptionally low price of $2.99. Order by Lot No. M. S. 40.

This Door at 98c

Lot MS-39. Four panel painted door, size 2 ft. 6 in. x 6 ft. 6 in. 500 in stock. A high quality door for the price. This is only one of our many special bargains. Our grand Building Material Catalog and Bargain Sheets will show a full line of Inside Millwork of all kinds.

Free Building Book

A 200-page Book of Bargains in Millwork, Building Material of all kinds, including Paints, Plumbing, Heating, Structural Iron, Metal and Composition Roofing, Hardware, Carpenter's and Blacksmith's Tools, Wire Fencing. No prospective builder should be without it. It Is Free.

CHICAGO HOUSE WRECKING CO.

Now operated under the name of

HARRIS BROTHERS COMPANY

FOR twenty years the CHICAGO HOUSE WRECKING COMPANY has been well and favorably known to the public. During all these years the four Harris Brothers have been the executive officers and owners and for that reason have finally decided to operate under the name of HARRIS BROTHERS COMPANY.

There is no change in our business, except that in the future the four Harris Brothers will advertise and sell their goods, heretofore advertised and sold under the name of the CHICAGO HOUSE WRECKING COMPANY, under the new name of HARRIS BROTHERS COMPANY.

Why We are Called the Great Price Wreckers

Consider what becomes of the stock of goods, when a manufacturer or big retail merchant goes bankrupt or "busted" as the saying goes. It is estimated that about ten thousand merchants annually meet with business disaster—this is why our company exists. If the stocks are sufficiently large and the goods are new and desirable, they find their natural way to our great forty acre plant for distribution at a small added profit, to our thousands of customers, who in this way get the benefit of wonderful bargains. In many cases our prices do not even represent the original cost of production. We stand foremost in our line. We recognize no competition. That's why we are called "THE GREAT PRICE WRECKERS."

Our Binding Guarantee

We guarantee absolute and complete satisfaction. There is no half way about this guarantee. Every purchase you make from us will be exactly as represented and you will be satisfied in every way, or we will make such just amends as are within our power. We will take back any unsatisfactory article at our freight expense both ways and refund your purchase price. We refer as to our responsibility to the publisher of this or any other publication or any bank or express company and to the public at large.

We Sell Practically Everything

Our stock includes practically "everything under the sun". It's in truth, from a needle to a locomotive. No matter what your vocation, or what position in life you occupy, or what your business, or how great a merchant you are, you have use for us, and we have the goods that you can buy from us to a decided advantage. The quicker you learn to recognize this fact, the sooner you will be "putting money in your pocket."

Our stock includes Building Material, Lumber, Roofing, Sash, Doors, Millwork, Wire and Fencing, Hardware, Plumbing Material, Heating Apparatus and Supplies, Furniture, Household Goods, Rugs, Stoves and everything needed to furnish or equip your home, your club or hotel. It includes Groceries, Clothing, Dry Goods, Boots and Shoes, Furnishing Goods and every single article to clothe a man, woman or child. It includes Sporting Goods, Fishing Tackle, Hunting Outfits, Tents, Guns, Harness and Vehicles, Jewelry, Sewing Machines, Clocks; also structural iron needed in construction of buildings, bridges, etc. Machinery, gasoline, gas and electric power outfits. In fact you cannot think of a single manufactured article that we cannot supply you at a saving in price. Let us convince you—it means but little effort on your part to prove the truth of all we say. Write us to-day for our Catalogue and Literature. Fill in the coupon shown below.

THE GREAT PRICE WRECKERS

$735 Buys the Material to Build This House

This is Our House No. 6A.

A beautiful up-to-date full 2 story, 7 rooms and bath, home. Has been sold over 400 times. Copied and imitated all over the U. S., but our price and quality cannot be equaled. The price is easily 25% to 50% below local dealer's prices.

Immediate shipment right from our Chicago stocks, where you can come and see it loaded. *NO MONEY DOWN.* $2.00 buys perfect Blue Print Plans, complete specifications and detailed descriptive material list, with a refund of $1.50 if you do not like them.

Our House No. 6A.

ORIGINAL METHODS

We are the originators of a system of selling practically complete Houses direct to the consumer, at a great saving.

We eliminate all in-between profits. We sell and ship direct to you from our own stocks.

Great care and study has been given all our Plans. Economy is the watch-word both in materials and construction.

No Worry No Loss No Waste

Our Binding Guarantee both as to quality and quantity goes with every sale.

Write us for letters from people in your vicinity who have bought from us. We have thousands of unsolicited testimonials.

Special Information

If you intend building, you will lose money if you don't write us at once. Tell us what you want. We will answer you promptly and give you valuable information regarding building. Send rough pencil sketch showing the kind of house you want. We will make you a freight paid price that will save you big money on material necessary to build same. Every stick first class.

If you intend to make improvements, write us what they are, and we will help you to save money on your purchases.

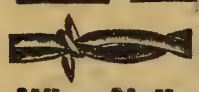
Our FREE Book of Plans

Our Book of Plans contains 120 Designs of different kinds of buildings. Everything from a 2 room Portable House for $147.50 to the finest kind of a 10 room residence.

Houses are completely illustrated showing the floor plans, prices, etc. And it's free.

Smash Go WIRE and FENCE Prices

BARB WIRE Less Than 2c Per Rod

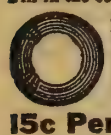


New galvanized, heavy weight barb wire, put up on reels about 100 lbs. to the reel. Lot 2-AD-28 per 100 lbs. $1.65. Galvanized barb wire, light weight, first grade, best made, put up exactly 80 rods to reel, 2-point barbs. Lot 2-AD-28, per reel, $1.40.

Wire Nails, Per Keg, $1.28

5,000 kegs, put up 100 lbs. to the keg mixed, all kinds together, regular nails, such as made by nail factories. Lot 2-AD-33, price per keg. $1.28 1,000 kegs of 10 penny-weight regular new wire nails, 100 lbs. to the keg, while they last, per keg, $1.85. Write for our free Wire and Fence Catalog. Gives valuable information to any land owner. Fill in the coupon below.

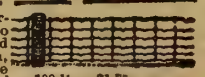
Smooth Galvanized Wire Per 100 Lbs. $1.13



It is suitable for fences, stay wires, grape vines or for any ordinary purpose where wire is used. This galvanized wire is irregular in length—it ranges anywhere from 50 to 250 ft. $1.13 is our price for No. 9 gauge. Other sizes in proportion.

15c Per Rod Buys Heavy Hog Fencing

Here is another one of our remarkable bargains. A good heavy fence, bought from Ohio flooded factory, perfectly adapted for hogs and general farm purposes, 26 in. high, square mesh, put up in suitable size rolls. Lot 2-AD-31, price per rod 15c. Other heights in proportion, Staples, 100 lbs., $1.75.



BEST QUALITY READY Mixed PAINT

PREMIER, MICHAELSON House

Our paint department is under the personal supervision of Mr. V. Michaelson, for 30 years the foremost paint man in America. His picture has appeared on over 8,000,000 cans, and his name is known from ocean to ocean. Paint of quality is his specialty. Every gallon has our strongest guarantee. Our Ready Mixed Barn Paint at 98c a gallon will outlast any similar paint produced. If you want quality paint, write us; or write to Mr. Michaelson if you prefer. Finest, most valuable paint book ever published sent FREE. Send coupon.

98c Per Gal.

Smash Go ROOFING PRICES

Galvanized Steel Roofing is Fire, Water and Lightning Proof

We bought 20,000 squares of this Corrugated Iron Roofing, which we offer at this remarkably low price. It is new, perfect, and first-class, but light weight. The sheets are 22 x 24 in. x 1¼ in. corrugated. Our price of $1.25 per sq. is f. o. b. our Chicago.

When ordering this item, specify Lot No. AD-700. This is not galvanized, but black steel roofing.

$1.25 per 100 sq. ft. buys best steel roofing

Write us today for our special FREIGHT PREPAID PRICES on new, galvanized roofing. We are offering prices lower than ever before offered in the roofing business. Galvanized roofing at $2.75 per square and up. Ask for free samples.

We can furnish anything needed in Roofing, Siding or Ceiling.

62 CENTS PER 108 SQUARE FEET BUYS BEST RUBBER SURFACED "AJAX" ROOFING

Here again we show the lowest price ever known for roofing of quality. This smooth surfaced roofing we are offering is our one-ply "Ajax" brand, and the price includes necessary cement and caps to lay it; this price is f. o. b. Chicago; at 75c per square, we pay the freight in full to any point East of Kansas and Nebraska and North of the Ohio River, provided your order is for at least 3 squares. Prices to other points on application.

Roofing is guaranteed to wear as long and give as good service as any Ready Rubber Surfaced Roofing on the market. It is put up in rolls of 108 square feet, and contains 3 to 4 pieces to the roll.

We have other grades of Ready Roofing, which we offer at prices easily 30 per cent below regular quotations. Write to-day for free samples and Roofing Catalog. Fill in the coupon.

Freight Paid Prices

Send Us Today Your Complete List of Lumber and Building Materials for Our FREIGHT PAID PRICES.

$8.50 for a High-Grade, Sanitary, Complete Closet

Syphon acting, vitreous bowl, hardwood seat and cover. Low down, latest style, copper lined tank. Outfit is Lot 5-AD-105.

1½ H.P. Gasoline Engine $24.75

The lightest, strongest and most compact Gasoline Engine ever produced. Thirty days' free trial. It is 4-cycle, self-contained, horizontal, hopper cooled; on heavy wood skids, with battery box, shipped complete, wt. 250 lbs. Has automatic governor. Easy to start. Send for Special Gasoline Engine Catalog.

Kitchen Cabinet

$17.35 $30.00 VALUE. Every Good Feature Known. See our free big book.

50,000 Bargain Catalog FREE

Greatest of all bargain books is our Great Wonderful "Price Wrecker". It is a book of 1000 pages, with wonderful illustrations, and with clear, frank statements explaining exactly the nature of the goods we have for sale, and quotes them at the lowest possible prices. It is a book of real merchandise truths—tells you the facts so plainly that you cannot misunderstand us.

Our business is founded on truth and virtue.

We want satisfied customers—we need you every day in our business, we treat everyone as though he or she were the only customer on our books; and this great 1000 page "Price Wrecker" of ours is our best and truest factor. If you have not a copy in your possession, you fail to understand fully how to buy goods. It will make you wise to prices that ought to prevail, and if you haven't a copy then it is time for you to get busy, and write us to-day to send you this wonderful Catalog of ours.

Fill in the coupon.

Fill in This Coupon

HARRIS BROTHERS CO., Dept. B.L. 53 Chicago

Send me free of cost the following catalogs. (Place an X mark in square opposite the catalogs you desire)

- ☐ Catalog of 50,000 Bargains
- ☐ Building Material
- ☐ Plan Book of Houses & Barns
- ☐ Roofing, Siding and Ceiling
- ☐ Wire and Fencing
- ☐ Plumbing & Heating
- ☐ Paint

My Name is.....

My Address is.....

County.....*State*.....

R. R......*P. O.*.....

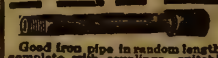
$13 Buys Complete BATHTUB

This is a white enameled, cast iron, one-piece, heavy roll rim bathtub; fitted with the latest style, nickel-plated trimmings, including Fuller double bath cocks for hot and cold water, nickel-plated connected waste and overflow, and nickel-plated supply pipes. It is 5 ft. long and is good enough to answer the needs of any man. Lot 6AD-101.

Hot Water Heating Plants

We are headquarters for steam, hot water and warm air heating plants. They are suitable either for new or old homes. It is easy to install one of these plants in your old building. For this great Fall Sale of ours we are offering a warm air heating plant large enough for the ordinary 5 room house, with all necessary plans and complete instructions for installing, for $45.00.

Iron Pipe and Fittings



Good iron pipe in random lengths complete with couplings, suitable for gas, oil, water and conveyance of all liquids; size ⅜-8 to 12 inches; our price on 1-in. per foot 5c; 1 1-4 inch at 4c per foot. Complete stock of valves and fittings. Send us your specifications.

AXMINSTER RUGS at 75c

We bought at New York Auction an enormous stock of high grade, brand new rugs and floor coverings. This is a sample of our money-saving bargains. Write for complete Free Rug Catalog, showing actual colors.

FURNITURE

We are the World's Bargain Headquarters for the outfitting of your home, club, lodge or hotel, from the very latest to the finest. An assortment of Household Goods and everything such as will be found in no other institution in the land. Write for free copy of our Furniture and Household Goods Catalog.

HARRIS BROTHERS CO. OWNERS 35th and Iron Sts. Chicago

READING ROOM
FILE No. 28

Iowa Homestead

Reading Room
Agricultural Ld
Urbana Ill
Comp

VOL. LVIII. NO. 41. DES MOINES, IOWA, OCTOBER 9, 1913. WHOLE NO. 2922

These Books Are My Only Salesmen

They are the best and cheapest salesmen in the world. They will save you from $50.00 to $300.00 on Gasoline Engines; $35.00 to $50.00 on Cream Separators; $25.00 to $45.00 on Manure Spreaders and from 20 to 50% on hundreds of other articles for the farm, home and family. Yes, sir; my catalogs are the best and cheapest salesmen on earth. And I can mail any one of them to you for considerably less than what a salesman ordinarily pays for a good cigar—in other words, a two or three-cent stamp pays all the traveling expenses of my Catalog Salesman. My Catalog Salesmen show you just how Galloway Machines are made, the kind of materials they are made of, the sort of high-grade, modern machinery used in their construction, and explain in simple terms our "Square Deal," direct-from-factory, one-profit only, plan of selling. You'll find all my statements and claims in "black and white" always before you. My Catalog Salesmen won't bother you or take up your valuable time when in the field or at work on some important job, but they are always at hand when you want to consult them. And best of all, they save you big money for they save you all the middlemen's profits. When you buy of Galloway you pay JUST ONE SMALL MANUFACTURER'S PROFIT in addition to the actual cost of materials and labor that enter into the construction of the machine. It's this "short cut"—"direct from factory" plan of selling that makes it possible for me to offer you as high a grade 5 h. p. gasoline engine as there is on the market today for only $99.50, or a complete manure spreader at only $69.50 and the new incomparable 500-lb. capacity Galloway Sanitary Cream Separator at only $42.50. Now, all you have to do to get the benefit of my tremendous money saving prices is to write for one of my catalogs. THEY ARE MY ONLY SALESMEN. Send for the Catalog you want today. I am making it easy for you to get these books—for all you need to do is just fill in the coupon below, tear off and mail today, for catalog wanted—or just write me a postal.

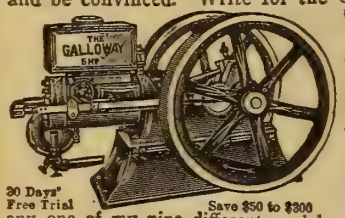
Now I am Going to tell You Some Inside Facts about My Business

I haven't any secrets about my business—the more my farmer friends know about it the better I am satisfied. My offices and factories are always open for your inspection. Thousands of my farmer friends and customers visit our big chain of factories every year and see at first hand just exactly the way we build our machines and examine the materials that are used in their construction; then go back to their homes more than ever satisfied that every statement and claim I make about Galloway Made Machines is true. I only wish every farmer in America could see just how Galloway Machines are made. If you could, my factories would have to be enlarged to ten times their present size (7½ acres of floor space) and then couldn't meet the demand. I know it. Because Galloway Made Machines have the merit—that is proven today by the fact that our satisfied customers (over 135,000) can be found in every state in the Union and in over thirty Foreign Countries. Seven years ago the name "Galloway" was practically unknown—today the "Sun never sets on Galloway Made Machines." No big business is built by accident. It's got to have something substantial back of it. Isn't that a fact?

Now, I've enlarged my line this year so that I can supply you with anything you want for the farm, home or family. My big 144-page Merchandise Book is chuck full of bargains on machinery and implements, household furnishings, rugs, carpets, tapestries, linoleums, stoves, furniture, sewing machines, buggies, harness, washing machines, clothing for men, women and children, watches and jewelry—and many other lines—all selling at regular wholesale prices. Get my big General Merchandise Book and let me save you 20 to 50 per cent on the things you buy. It is the big catalog shown at the right at top of page. Write for it today. Just use coupon below.

The Only Way is the Galloway—Selling Direct from Factory to Farm

Let me prove it to you. I want to show you just what a man can do for you when he will sell you **direct from his own factories to your farm.** I want you to see for yourself what an amazing difference it makes in prices when you don't have to pay a lot of middlemen's profits. I want to show you how simple and easy it is to buy by mail the Galloway Way. With every machine backed by a 30 to 90-day Free Trial Privilege—a strictly legal five-year warranty on materials, printed in black and white, that goes out with every machine that leaves our factories—and a $25,000 Bond that guarantees you right at the start that we will fulfill every claim and statement we make—Now, just consider this plan a minute. Read it over again. Then tell me—Did you ever buy goods of anybody where you had such a perfect guarantee of satisfaction back of them? Never! Then, best of all, I will make you practically any terms you want—on any Galloway Made Machine—terms that our competitors cannot equal and prices never before even approached by competition on strictly standard, high grade machines. That's what it means to buy the Galloway Way—that's why thousands of farmer business men will tell you the "Only Way is the Galloway—Selling Direct from Factory to Farm." Try it and be convinced. Write for the Catalog Salesman you want me to send to you today. Fill in coupon below.



30 Days' Free Trial — Save $50 to $300

The Famous Stationary Galloway 5 H. P. Engine. New Low Price Now Only $99.50

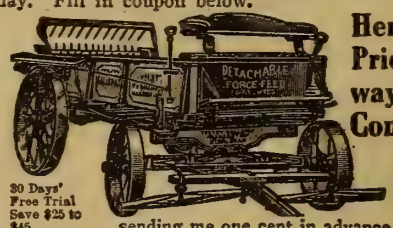
F. O. B. Waterloo, Chicago, Kansas City or St. Paul

Your choice of any size or style of the entire Galloway Line from 1¾ h. p. to 15 h. p., mounted or stationary, at prices to match this never-before-heard-of price on my Famous Galloway 5 h. p. Stationary Engine. Yes, sir; I'll let you pick out any one of my nine different models you want. I'll let you test it any way you choose right on your own farm, at my risk. I want you to compare it point by point with any style or make of gasoline engine on the market, and I don't care what the other engine costs. I'll put any Galloway engine right up against any other engine made, absolutely regardless of price, and let you keep the engine that suits you best. But, remember, when you buy of me I agree to save you from $50 to $300, depending on the size you buy.

Can you beat that offer? Never! You can't equal it anywhere. And I've been making just this sort of offer for years and my engine business has grown by leaps and bounds every year. Why? Simply because I am giving my customers a better engine for less money than any other concern in the country. When I sell an engine it helps me sell more right in that section. Remember, on my direct-from-factory plan you must be satisfied or your money will be cheerfully refunded and I will pay all the freight. You take no risk whatever and I back up this offer with a $25,000 Bond for your complete protection. But the best proof of all are my 35,000 satisfied Galloway engine users.

$172.50 Buys a Complete Galloway 5 H. P. Portable Wood Sawing Outfit

That means complete portable engine with detachable saw frame, saw blade, saw guards, belt and belt tightener and 20x6-inch friction clutch pulley. It's ready to put right to work when you get it. Not an extra to buy. All my engines are sold that way, whether stationary, portable, sawing rigs or combination outfits. If you need a fine pumping outfit, combination of engine and power washer, engine and churn, engine and small grinder and a dozen of just such combination small or large power plants, write me now. I am making special combination prices that you can't beat. Get my engine catalog today. Just fill in coupon below.



30 Days' Free Trial Save $25 to $45

Here's My New Low Price on the Galloway No. A, 50-60 Bu. Complete Spreader $69.50

F. O. B. Waterloo, Chicago, Kansas City or St. Paul

And right on top of this remarkably low price I will make you this absolutely unheard-of offer. I will send you any one of my seven styles of spreaders to your farm and let you try it absolutely at my own risk without your sending me one cent in advance or making any bank deposit. All I ask is your bank reference. This offer is open to any responsible person, anywhere. Now, that's the sort of confidence I place in my unsurpassed spreaders. Did you ever get an offer like this before from anyone? Never! But I know my spreaders will stand any test you care to give them. My confidence is not based on my own judgment alone, but on the judgment of over 40,000 satisfied Galloway Spreader customers. My new Catalog shows my new, unequalled, low-down, semi-underslung spreader. Get it.

Now is the time to write me for I've made the most phenomenal slash in manure spreader prices in history. I've simply gone the limit. I've cut 'em clear to the bone. Yes, sir; you want my spreader prices before you consider buying any other style or make. Get my Spreader Catalog Salesman. Just fill in coupon.

$42.50 That's My New Direct-from-Factory Price on the New Galloway Sanitary 500 Lbs. Cap. Separator

Now, don't be misled by other concerns making a lower price than this. Note first what the capacity of their machine is then note my price and capacity. My 500-lb. capacity machine is the smallest size I make and it's absolutely the smallest size it will pay you to buy. Then I make a 750 and 950-lb. capacity machine. Here's the cream separator you have been looking for. It's the most modern, most sanitary and closest skimming cream separator ever built. It took us three years to perfect, build and market this new incomparable Galloway Sanitary. It hasn't its equal on the market today from any standpoint, regardless of price, and yet I say to you, when you buy it I will save you positively from $35 to $50.

I am making a special 90-day Free Trial Offer on this wonderful machine because I want every man in the market to give it a good trial entirely at my risk right alongside any other separator built, you to keep the machine that does the best work and suits you best.

Get my catalog telling all about my New Sanitary, how it's built, the sort of materials used in its construction, terms, prices, etc. Just fill in coupon and mail to me today sure.

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We carry machines in warehouse at Chicago, Kansas City, Council Bluffs, St. Paul and Winnipeg and can ship promptly

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, OCTOBER 9, 1913.

A Campaign Against Tuberculosis

Wisconsin Recognizes Necessity of Educating Farmers to Dangers of Consumption and Methods by Which it May be Checked or Cured

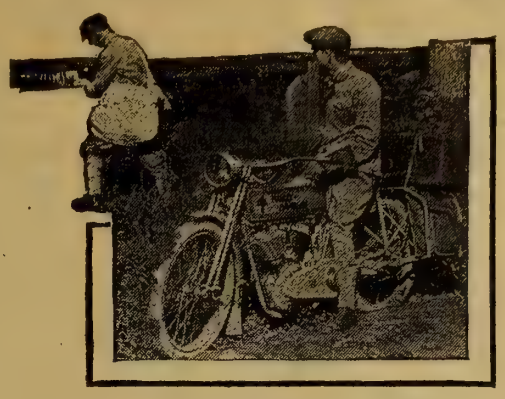
THE campaign against tuberculosis, that great scourge which is taking so many lives and wrecking so many homes, is making substantial headway in checking the disease in cities, but little attention has been paid to tuberculosis as a rural problem. In the country there is as much of the disease, per capita of population, as in the city, and much less is known regarding its nature and how to prevent it.

With one-half of its population rural, Wisconsin early recognized the obligation of extending the anti-tuberculosis crusade to the isolated residents. Different plans were tried for carrying the educational campaign to the farmer, but nothing proved practical until last summer a motorcycle was donated to the association by a generous individual, and a lecturer was sent into the country on this machine.

As a result of this experiment, the Wisconsin Anti-Tuberculosis Association is this year conducting an educational campaign which is probably the most extraordinary and unique venture of its kind ever attempted. It is a combination lecture and placarding campaign and a survey of rural conditions. Two men, a lecturer and an assistant, travel on one machine. They are absolutely independent of railways and hotels, carrying a complete camping outfit. Talks are given wherever a crowd can be assembled at a creamery, a country postoffice or crossroad. The evenings are usually spent in a small village or community center where a lecture, illustrated with stereopticon views, is the principal feature of the day's program. The work in the surrounding country during the day, which includes short talks, visits to individual farmers, and placarding the fences with signs emphasizing the principal rules of right living, serves to advertise the evening lecture to which the farmers come in from several miles around.

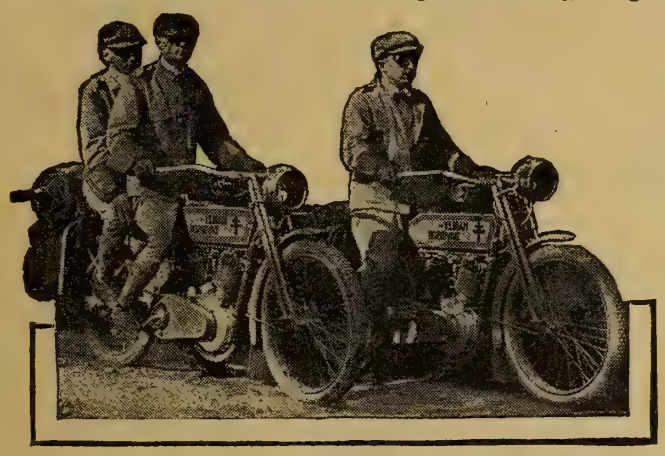
The unique arrangement of their compact equipment creates much interest and serves to draw an audience. The stereopticon machine is operated from the luggage carrier of the motorcycle and is fed by the same gas tank that supplies the headlight. The silk lumberman's tent, bed clothes and simple cooking utensils comprise the remainder of the equipment. When all of these are loaded, together with two men, on one motorcycle, they make a curious picture.

The expense of this work is comparatively small, since hotel bills are eliminated. The ground can be covered rapidly and no time is wasted waiting for trains. As many people can be reached in the country in this manner as by the ordinary lecture tour through cities. After their opening in the fall, a talk in each rural school will be made part of the program. This work can be carried on about six months of the year. It is gratifying to find that the gospel of improving health is



TACKING UP PLACARDS ADVERTISING THE MEETINGS.

being favorably received by the people of Wisconsin as indicated by the kind of interest which has been shown in the work of these two lecturers. While possibly in the beginning this interest might partly be due to curiosity, yet it is very quickly discovered that the mission performed by



THE CORPS OF LECTURERS ON THE ROAD.

these men is, after all, fundamental and that the outcome of their work will affect favorably not only the present, but even future generations. An extraordinary amount of good can be accomplished along this specific line at an almost infinitesimal cost, resulting in a large advantage that cannot in any way be computed in terms of dollars and cents. In this campaign of enlightenment the healthy as well as the sick are concerned, because of the insidious character of the enemy that is being fought.

The value of the campaign can hardly be overestimated. Notwithstanding the fact that they live where fresh air and fresh, cleanly food is accessible, it is a fact that farmers and farmers' wives are subject to tuberculosis even more than city folks. Failure to pay sufficient attention to the manner of living is one of the chief causes of the ravages of this dread disease throughout the countryside. The campaign in Wisconsin is to educate farmers in protecting themselves against the incursions of consumption and to check the disease in its incipient stage, once it secures hold on them.

The work which is thus being tried out in Wisconsin will doubtless spread to other grain-belt states, where the need is equally great. Iowa statistics show that housewives form the largest class of inmates at the state tuberculosis hospital, while farm housewives are represented in even larger number than city housewives. It is difficult to realize that this condition of affairs exists because if pure air and good food are not obtainable right out on the farm where can they be found? After all the most urgent need in the stamping out of this dreaded disease among farm people is to introduce better methods of home ventilation. We are coming right up to the time of year now when the windows in many cases will be closed for the season. In some cases, possibly for a period of five or six months, the windows of sleeping rooms will never be raised, and yet living under this condition frequently undermines health without the persons affected having the least conception of the cause. In a case of this kind it is ignorance that is costly and the toll paid is of such a cost as to justify the state in seeking methods of prevention. The success of the Wisconsin plan will be watched by every other state with a great deal of interest. While the stamping out of tuberculosis is a national problem, yet it is one that must be solved state by state and the lead that Wisconsin has taken in the matter will be followed by other states if good results are forthcoming.

If we are so to conserve health as to make the next generation superior physically to the present it is imperative that everything possible be done to stamp out the diseases, which, while intensely deadly, are preventable. Tuberculosis heads this class of ailments and the Wisconsin campaign might well be imitated in all states.

A COMBINATION OF WORK AND PLEASURE THAT IS BEARING GOOD RESULTS.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

HOW HOG CHOLERA SPREADS.

It is safe to say that every swine breeder in the corn belt is taking more than the ordinary degree of precaution to prevent the infection of his premises. Breeders know that cholera is a germ disease and furthermore it is generally believed that the germ cannot travel in air. There must be some physical agent employed in spreading the disease from place to place. The infection may be carried on shoes and clothing and for this reason when cholera once makes its appearance in a community no outsider should, under any consideration, be allowed to visit the yards or even the pastures where the hogs are grazing. Other vehicles for carrying the infection are dogs, chickens, pigeons and sparrows. Many a dog that is really not worth $5.00 has cost his owner a small fortune by prowling over infected ground and bringing the disease into a healthy herd. In these times when disease is so common the dog that leaves home under any circumstances whatever should be tied up or shot. It is simply a question in that case of whether you propose to part with your dog or run the risk of losing hundreds of dollars' worth of hogs.

In discussing methods of preventing disease from entering herds the veterinarian of the North Dakota station gives this advice:

In order to avoid those sources of danger of infection as much as possible when the disease is rampant in a community, we deem it advisable to keep the hogs indoors whenever this is possible, at the same time keeping the quarters thoroughly disinfected. We realize that it is better to keep the animals in lots and pastures under ordinary circumstances, but during extensive outbreaks the confinement of hogs in buildings may be a means of protection.

While the feed in itself plays little or no part in the production of the disease there always is danger of introducing infection by the use of foodstuffs which may have been contaminated with the germs in some way or other. This may be obviated by the use of a feed cooker by which the materials fed can be exposed to sterlizing heat. Those feeding such material as hotel or restaurant offal should by all means cook it before offering it to hogs.

Another factor in the spread of hog cholera is the introduction of new hogs into the herd. Such animals may have come from an infected district or have been exposed during transit by means of infected stock cars or yards. For the same reason stock shows are liable to become means of the spread of infection.

Another factor to no small degree responsible for the spread of disease is found in the fact that on many farms hogs manifestly sick with the disease and doomed to die are permitted to linger about and to hide themselves in various out-of-the-way places. It is reasonable to suppose that this will soon, as it were, saturate a hog lot or pasture with disease and the more infection or germs are thus scattered about, the more danger it will offer to the healthy hogs in a certain district. If farmers could be induced to kill this type of animals and to destroy the carcasses by immediate burning, they undoubtedly would do a great deal toward limiting both the extent and the speed of the spread of the disease.

To this we would add one other factor: the employment of sensible feeding methods whereby the hogs are kept in a vigorous, healthy condition. It stands to reason that individuals in a herd that are run down either as a result of external or internal parasites, are the first to become infected, thereby giving the disease a start in a herd which may ultimately sweep away even the animals that are in normal health to begin with. When it is considered that approximately 10 per cent of the ordinary run of hogs are naturally immune from cholera, the conclusion must be reached that this immunity is due to natural stamina and vigor while in turn this vigor must be due to an inherent hardihood in conjunction with sensible care. By keeping all animals in the pink of condition the danger of disease getting started in the herd is reduced to a minimum.

A VISIONARY CONCEPTION OF AGRICULTURE.

A subscriber who has never had any practical experience in farm affairs contemplates locating in a western state and in order that he may be equipped to attain success right from the start he propounds the following questions:

I would like to get all the information you can give me in regard to farming, as I am about to start in a western state where the rainfall is rather light. I am told that such crops as sweet clover, alfalfa, white and red clover as well as cane and kaffir corn do well there, but as I have never had any experience I want you to tell me just how to proceed in order to obtain the best results. If you cannot give me this information I wish you would refer me to someone who can, because I don't want to make any great big blunders when I go out there.

This typically illustrates the attitude of certain classes of our people toward farm affairs. The "back to the land" movement has stirred up a great many town and city people who are made to believe that they can greatly improve their lot in life by going back to the farm. In the first place the great majority of those who are so persuaded have the hallucination that this subscriber is now passing through indicated by their firm belief in the fact that all the information needed on crop growing can be picked up, as it were, in job lots. In this case it was hoped that a single letter would lead straightway to success if the directions given were faithfully followed.

This paper has no advice to give under such circumstances as these. The individual who does not know the fundamental principles of soil tillage and who is not familiar with the general methods employed in growing the various kinds of crops is in no position to assume the obligation of operating a farm in his own right. This holds true whether he proposes to operate in a dry farming country or in a wet farming country. If the practice of agriculture were as simple as is indicated by this inquiry there would be no need of our experiment stations and agricultural colleges nor, indeed, would we have a consuming class, but all would be producers.

WINTERING BEEF BREEDING COWS.

Ten Short-horn and ten Aberdeen Angus cows were fed 140 days at the Pennsylvania station on ensilage and cottonseed meal alone. These cows consumed approximately sixty pounds of ensilage and one pound of cottonseed meal per head daily. During this period they made an average daily gain of 1.17 pounds per head.

The ensilage was fed twice a day and the cottonseed meal once daily. There was less than 1 per cent waste in feeding in this manner. These cows were allowed to run loose in a shed that was well bedded, the experiment lasting from December 1st to April 19th.

It required four tons of silage to winter each cow in this manner, this being equivalent to one-half acre of corn yielding forty bushels per acre or one-third of an acre of corn if the land produced at the rate of sixty bushels per acre. Computing ensilage at $3.50 per ton the cost of wintering the twenty cows on ensilage was $280 or $14 per head. In addition the cows consumed cottonseed meal to the value of $42. With this item included the average cost per head was approximately $16. Attention might be called to the fact that during the period covered by this experiment the weather conditions were unusually severe, the temperature falling as low as twenty-three degrees below zero at times. These cows when turned to grass made satisfactory daily gains, indicating that ensilage when fed in large quantities, as was the case in this instance, is in no manner whatever injurious.

It may be of interest to know that 8,840 pounds of manure were produced during the 140 day period by each cow. This computed at $1.50 per ton means a value of $6.63. As each cow gained 164 pounds in weight this increase of five cents a pound amounts to $8.20. It is true that this added weight has in reality no intrinsic value unless the cow is marketed, but it does mean that the cow goes onto the grass in a good fleshy condition.

Those of our readers who have a supply of ensilage at hand might profit by a perusal of the results obtained in this instance. If an experiment station can obtain these economical results on ensilage and a small amount of cottonseed meal daily there is no reason why there will not be a similar outcome if the same plan is carried out under average farm conditions.

SUGGESTIONS TO YOUNG BREEDERS.

In his recent work, "Beginnings in Animal Husbandry," Prof. C. S. Plumb offers a few suggestions which are directed in the main toward the young breeder. It is pointed out in the first place by this author that successful breeders are those who have been persistent in their efforts. In other words, they have pursued a fixed policy with the same kind of stock year after year through dull times as well as in periods of high prices. A man who is going to be frightened out by a temporary slump in values had better not undertake the breeding of pure-bred stock.

It should be kept in mind that the right kind of a reputation can come to the individual through the record of his best animals. These under all circumstances should be kept in the herd and not sold at any price. There must be a constant culling from the bottom end.

In making additions to the herd too much emphasis must not be placed on cheapness. Good individuals with meritorious blood lines seldom have to go begging even at long prices. If they are high to buy one may usually depend upon it that these are the kind that sell high. Professor Plumb points to the case of Mr. Corsa's purchase of Masterpiece, the Berkshire boar, for $2,500, an animal that proved to be exceedingly profitable even at this record-breaking price.

Under no circumstances does it pay to be niggardly in feeding pure-bred animals. Our breeds have been built up by sensible matings in conjunction with careful feeding. If the present standard is even to be maintained, to say nothing of being heightened, liberal feeding will have to be employed in the future as well as in the past.

This author advises the young breeder to undertake the breeding of the same class of stock that is grown in a community. One reason for this is that more buyers are apt to come into a section where a particular breed dominates than will be the case if there are only a few animals to select from in a very few herds. Attention should be called to the fact that one can often dispose of more males in such a locality than will be the case if there are few herds of any particular breed. In the case of hogs this is a matter that is well worth pondering over by the young breeder.

To become a successful breeder one must be a student of the business. Particularly does this apply to the study of families or strains within the breed. By associating more or less freely with men who are known to be successful as breeders a practical working knowledge will be acquired very quickly. So much the better if it is possible to co-operate with fellow breeders in promoting the live stock interests in general and your special breed in particular.

ENGINE POWER NEEDED FOR THE FARM.

A Missouri subscriber who is contemplating the purchase of a gasoline engine, asks for information in regard to the amount of horse power needed for the various farm tasks. He expects to use this engine to run his washing machine, the grindstone, the fanning mill and, in addition, he desires to use it for grinding feed and for sawing wood. While he has not yet erected a silo he intimates that this will be done some time in the future and that therefore, a gasoline engine will be required to cut the corn.

In answering this inquiry we cannot do better than call attention to what Mr. X. W. Putman has to say on this phase of the gasoline question in his recent book, "The Gasoline Engine on the Farm." Mr. Putnam believes that for most of the work about the house and dairy a one or two-horse power engine will be ample. This will pump water in moderate quantities, separate the milk, churn, run the washing machine and wringer, spray the trees, and water the flower bed and garden, wash the windows, including those of the upper story, run a dish-washer or a vacuum sweeper, supply a modern bath room and all rooms of the house with running water, run the shop lathe, grindstone, emery wheel, rip-saw and small cut-off, wash buggies, whitewash the outbuildings ten times faster than can be done by hand, sprinkle the lawn and a few other similar tasks that on the average farm are done at the price of aching backs or not at all; while in its spare time the same industrious little worker would, with the aid of a storage battery, accumulate enough electrical energy to give the farm buildings every night the same lighting conveniences enjoyed in the city residence at very little cost.

Mr. Putnam says that with a three to five horsepower the farm supply of wood could be sawed, the feed ground, hay and straw and stalks run through the cutter, grain and hay elevated, corn shelled, stock watered, and feed conveyors handled almost without hand work. An eight to ten horsepower would do practically all of the heavy work a stationary engine could be made to do upon a farm; such tasks as threshing, ensilage cutting, heavy grinding, corn husking. For a tractor, less than twelve-horse would hardly be advisable, while for real satisfactory work at the plow and harrow on, say, a 200-acre farm, less than a twenty-horse could not be advised. For smaller farms, tractors are now made of half that power that will do good work with the plow.

There is, of course, danger of having a small engine overloaded in a short time if it is installed for general farm work, but for really saving the work and sparing the health of the man and his wife the small engine is ideal. It is also best to learn with; then it can be turned over to the boys to give them a new interest in farming, and a greater love for farm life than all the grindstones in the world could ever do unaided.

A CHILD'S CRY.

I WANT to go out in the country
Away from the heat and the noise,
Where I can have daisies and bluebells
And little red roses for toys,
And wade in the puddles barefooted,
And roll on the green-velvet grass,
And pretend that the dewdrops are diamonds,
And the clouds are all angels that pass.

I want to go out in the country
Away from the dust and the smoke,
With a clean gingham apron for Sundays,
And maybe a little blue cloak.

I don't ever get any taller,
I know by my frocks—not a mite!
They say that my legs are like pipestems,
And my cheeks are all sunken and white,
The stones that they plant in the city
Never get any bigger, and so
I want to go out in the country,
The beautiful country, and *grow*.

—Minna Irving, in Leslie's.

THE PUBLISHER'S VIEWS —ON— TOPICS of THE TIME

James M. Pierce

IN THE MATTER OF LITERACY.

THE little red schoolhouse on the hilltop and the little white schoolhouse in the valley are passing. Their places are being taken by the large consolidated school, or the two- or three-room building of model construction and sanitation. In the enthusiasm of our conversion to the new ideas and the new buildings, however, we must not lose sight of the immense debt we owe to the rural school of yesterday, poor and inefficient as it now seems to many.

Out of those little red and white schoolhouses, which many are now inclined to sniff at, have gone the boys and girls who are ruling the country today, writing the books that are going to live, painting the pictures that are masterpieces, doing the big and really-worth-while things of the world. Boys and girls have gone over the hilltop, stopping a moment to look back upon the schoolhouse they were quitting, and have returned, after the lapse of many years, grown men and women, to pay homage to the old schoolma'am or master, to whom they give credit for the solid, substantial foundation of learning upon which their fame and fortune have been builded. The days of the rod and the birch are passing, but they taught boys and girls in those days so that they did not readily forget.

I am convinced that it is the rural schoolhouse to which belongs the credit for putting the grain belt ahead of the rest of the United States in the matter of literacy. Do you know that the state which has the smaller number of people, per thousand, who can neither read nor write, is the state which leads the nation in the output of corn and of hogs, the state which is typically and almost exclusively rural and agricultural: Iowa? Do you know that the second state in the nation, as regards the general intelligence of its people, is another grain-belt farming state: Nebraska? Do you know that still another one of the first five states in the Union, as regards literacy, is still another grain-belt state, famous for its wheat, alfalfa, corn, hogs and horses: Kansas? Three states out of the five leaders! There is a record of which the grain belt may well and justly be proud.

What agency contributed most to this leadership? I say, the old-fashioned country school of which many are now inclined to speak lightly. They taught the three R's there (reading, 'riting and 'rithmetic) and they taught them soundly and well. There were no frills or fads; nothing but downright, practical, common-sense education; and the child who did not learn was helped along, with an attention to individual traits rarely encountered nowadays. When an education is secured by tramping some two or three miles over poor country roads, clustering around a red-hot stove in a reeking atmosphere and digging into old, dog-eared text-books as assiduously as one digs into the ground for potatoes, the things that are learned are remembered and appreciated. There was no easy and royal road to learning in the old days, but once a thing was learned, it stuck in the mind, minus any frills or furbelows—just good common horse sense.

So let us not forget that the old-fogy schoolhouse, as so many people call it today, served a purpose and had a value which the new-fangled schoolhouse may well pray to attain if it is to prove one-half so efficient.

ONLY A DREAM.

MY GOOD friend Coburn, of Kansas, has the knack of putting things just right. Coburn, you know, used to be editor of one of my farm papers and when a man makes as big a success as he did at the difficult job of editing he is qualified to tackle anything. Of recent years it has devolved upon Coburn to keep Kansas upon the publicity map. By this I mean that he has been looked to to acquaint the rest of the world with the bigness and richness of Kansas, with the vast size of its crops and with the good work which it is carrying on along a dozen different lines. Sometimes Coburn has another job. It consists in keeping up the courage of the Kansas farmer when things aren't going just right. And I'll say this, that as a courage stimulator Coburn has no equal. He is the best man I ever knew for cheering others into keeping a stiff upper lip.

Just for instance, take this little idyl that he wrote in order to impress upon the Kansas farmer the desirability of hanging on to the home farm, even if there is a partial failure of one crop now and then, instead of chasing after the pot of gold at the foot of some illusive rainbow:

Occasionally a good man becomes dissatisfied with Kansas. The milk is too yellow or the honey too sweet, and he doesn't like to have them flow over his land anyway. So he parts with his land and sells his live stock and other things too numerous to mention and moves to Oklahoma. There he takes good Kansas money and buys a farm which today is and tomorrow is not, because the wind has blown it away. Or tries Colorado and slushes in mud trying to irrigate a strip of bottom so narrow a cow could jump across it. Then he hears of Texas and goes down to hunt the bag at the end of the rainbow. In the daytime he scratches the sandburs out of his flesh and at night centipedes crawl over his face. When his money is all gone he begins to feel like he did the first night he stayed away from home.

He yearns for good old Kansas and the yearn sticks in his throat and chokes him till the tears come in his eyes. He would give months of hard work to see the cow standing at the bars of his old Kansas farm and hear the horn for supper. Memory is a marvelous painter and paints the things we love the best. It pictures to the traveler the corn silking in the fields he used to own, the wheat yellow for harvest, the clover stretching away in a carpet of red and green, richer than the rugs of Persia. It shows to him the elms as they whispered to the children at play under them, points to the rose in the corner of the rail fence and infinite details paint a thousand things that touch the heart and prove its whimsical power. Happy is the man who wakes to find that he has wandered from Kansas only in a dream.

Now, isn't there a lesson in this for all of us, whether we live in Kansas or not? There are times when even prosperity palls. We long for a change. We leave good, secure things and set out with high hopes to follow the will-o'-the-wisp. Fortunate, indeed, is the man who, like the farmer, in Coburn's idyl, finds that his wanderings from home have been only in a dream.

There is nothing much more sorrowful to me than the way some farmers try to transplant themselves in their old age. Maybe they have good reasons for turning the old homestead over to others, for closing the barn door for the last time and quitting country lanes for city pavements. But I doubt if there is any reason good enough to warrant a man quitting home after he has become firmly rooted by a third of a century, or even a quarter of a century, of continuous life there. I remember when I was but a mere boy, back in the Ohio village where our folks lived, that after the civil war there was one street in our home town known as Widow Street. Why? Because the heads of all the families on that street had laid down their lives on the battle field. Well, today there are streets in some of our leading grain-belt cities that are Widow's streets (and whole blocks that are commonly called such) just as in that little Ohio village fifty years ago. Why? Because in their old age, and for various reasons, farmers have torn themselves from the old homestead and moved into town, there literally to die of inactivity, of changed conditions, of worry or disappointment or a dozen other causes.

So just take this word from me, because I'm an older man than many of you who read this. Remember Coburn's advice when you are tempted to leave the old home place, young or old. The time is almost sure to come when you will wish that you, like the Kansas farmer of whom Coburn wrote so eloquently and feelingly, had wandered from home "only in a dream."

James M. Pierce

THE COLT'S FIRST WINTER.

An experiment carried out at the Pennsylvania station throws a little light on the amount of grain and roughage required to take a colt through the first winter. Ten draft colts were used in this experiment, these being placed in box stalls November 12th, after which they were only turned out twice daily for water, there being no suitable enclosure for giving more exercise than could be obtained during watering periods.

These colts were at first each fed five pounds of grain daily composed of five parts shelled corn, three parts oats, two parts wheat bran and one part linseed meal. These grains were mixed in the proportion mentioned in bulk and not by weight. The amount of grain used was not changed until the end of the third month when it was increased to seven and one-half pounds per head daily. One group of these colts was fed an average of 8.2 pounds of silage daily and in addition 7.4 pounds of hay. The other group received the same grain ration but no ensilage, and in this case 10.6 pounds of hay were consumed daily by each colt. During the last three months of the winter period no ensilage was fed and the colts consumed 13.1 pounds of hay daily in addition to seven and one-half pounds of grain.

On this ration they made an average gain of 244 pounds per head during a period of 168 days. When turned to pasture in the spring these colts made satisfactory gains right from the start, indicating that the method of handling during the winter had prepared them in an ideal way for the grass period.

To those of our readers who have on hand draft colts we would especially commend the grain ration that was used in this case. It is well balanced and, furthermore, the variety that it includes means that the ration will be in the highest degree palatable and therefore easily digested.

FAVORS HOGGING DOWN CORN.

In the following communication one of our subscribers, Mr. I. L. Turner, gives his experience in hogging down corn:

This is the seventh year that I have used this method of gathering a part of the corn crop. The first year I made the mistake of turning the hogs in when the corn was just in the roasting ear stage. It made nice shoats, but was too expensive while the corn was soft. Since that I have turned in after the corn was dented or about the first week of September. I use a twenty-acre field and I find no more volunteer corn on this field in the spring than on the fields that are husked.

I always make an effort to have pasture of some kind for the shoats to run in at the same time they are in the corn. I also plant from a half acre to an acre and a half of sweet pumpkins. These are not the old-fashioned yellow Yankee pumpkins, but a good pie variety. These are planted with the corn planter the same as corn. They are very prolific, as you will see when I tell you that I harvested twenty wagon loads from an acre and a half this year. I feed as many to the hogs daily as they will clean up. They seem to relish them even when getting all the corn and alfalfa pasture they can eat.

When corn is hogged down supplemented with feeds of this kind I think, taking everything into consideration, that it cheapens corn at least eight cents per bushel and if the hogs do not gain any faster than when in a dry lot we still have this eight cents a bushel profit over gathering the corn and feeding the hogs by hand.

It seems that wherever the plan of hogging down corn has been sensibly tried it has met with most marked favor on the part of those who have adopted it. It has certainly passed the experimental stage with Mr. Turner, as it has been tried seven years in succession. The plan of using pumpkins in connection with corn handled in this way is ideal and where the pumpkins are not planted in the corn one can well afford to give up the use of an acre or two for this crop alone because pumpkins make an ideal supplement for corn when it is used for fattening hogs.

CARELESSNESS ABOUT SENDING PEDIGREES.

Men seldom meet with any marked degree of success in the raising and marketing of pure-bred stock of any kind if they are not reasonably good business men to begin with. It requires more than a knowledge of pedigrees and one must be something more than a good feeder to permanently succeed in this line of effort. We are reminded of this at regular intervals when our attention is called to a case of carelessness on the part of men who have sold and shipped pure-bred live stock through a mail order and yet who daily along for weeks and even months before sending the pedigree. To begin with this is an exceedingly poor business policy, because even though men treated in this manner are satisfied [illegible] he selection that has been m[illegible]ey become disgruntled and, in the end, the enemy of the seller.

It is not difficult to understand why a man having a pure-bred herd becomes very uneasy if he has used, for instance, a male in the herd and yet finds the weeks going by with his efforts to come into possession of a pedigree wholly unrewarded. It would mean in some instances not only a loss of hundreds, but even thousands of dollars if the pedigree is not forthcoming at some future time.

The cases where men dispose of alleged pure-bred animals when they are not able to furnish pedigrees are exceedingly rare, and when they do occur they must be dealt with as a species of dishonesty because it is simply an attempt to obtain money under false pretenses. They must be dealt with in an entirely different way than in the case of the individual who is simply slow in making out papers.

We can well understand why, in certain instances, there is more or less unavoidable delay. If, for instance, the sire or dam of the animal disposed of is not recorded it may require a few weeks to have this matter attended to and it must be attended to before the pedigree of the newly sold animal can be furnished. Because of this we believe that buyers of pure-bred stock should, at all times, exercise a reasonable degree of patience, but, on the other hand, the seller should state the facts in the first instance and assure the buyer that the pedigree is forthcoming without any question whatever.

As there will be an enormous amount of business transacted between the advertisers in this paper and our subscribers during the coming months, we hope that this matter of pedigrees will be kept in mind and that there will be no cases of misunderstanding on account of delay presented during the coming season. As we stated before, it is a bad business policy and tends in the outset to operate against the best interests of even the best breeders. The man who neglects looking after this little detail promptly will, in the end, suffer from his delinquency.

POISONOUS CORNSTALKS.

The Missouri Experiment Station has recently issued a statement warning stockmen to be careful in the feeding of cornstalks to cattle this winter. It seems that it is not possible to detect, in any way, the presence of poison in the cornstalks. However, it is well known that such conditions as have prevailed throughout a considerable part of the corn belt this year are favorable to the development of a deadly poison in the stalks. This poison generally disappears by the first of January and ordinarily there is no danger from the use of shocked fodder.

Calling attention to this matter the veterinarian of the Missouri station advises farmers to muzzle their horses while gathering corn because that is the very time when there is the most danger. Instead of pasturing the stalks during the fore part of the season and feeding the shocked fodder later, this order ought to be reversed, according to Dr. D. E. Luckey. By the time the shocked fodder is fed out or a considerable part of it, the probabilities are that the poisonous material will have completely disappeared from the standing stalks.

Ask your neighbor to subscribe for The Homestead.

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Bottom Ejection; Solid Breech; Hammerless; Safe

WHAT'S the *use* of a repeating gun that throws the shells, smoke and gases in the way of your aim? That's the question that started us working on the Remington-UMC *Bottom Ejection* Pump Gun—the only gun of its kind on the market, and used by thousands of gunners all over the country.

Solid Breech, Hammerless. Perfectly Balanced. Three Inbuilt Safety Devices—accidental discharge impossible. Simple Take-Down—a quarter turn of the barrel, *without tools.*

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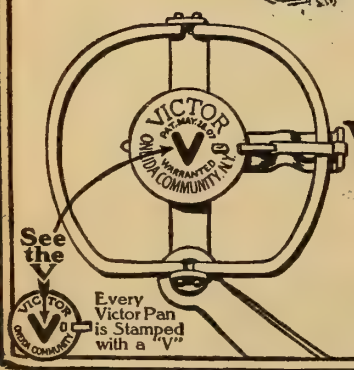

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To Boys or "Grown-Ups":—Write for free booklet on trapping, showing how you can make money before and after school or between "chore" times.

Address ONEIDA COMMUNITY, Ltd., Oneida, N.Y.

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$1.90 FOR THIS DANDY GATE

These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**

Iowa Gates

The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

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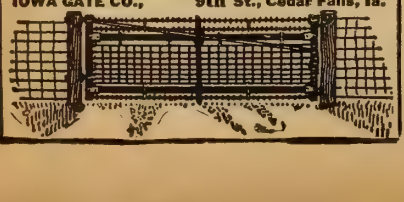

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Storage tanks, above ground cisterns, stock tanks, troughs, and well casings—cheaper than wood and many times more durable when made of genuine

AMERICAN INGOT IRON

Rust-resisting and built for rough usage. All styles and sizes. **Our corrugated tanks expand and contract with the changes of temperature. Zero weather will not injure them.** We also make galvanized plain steel tanks at very low prices. If your dealer does not sell our tanks, send us his name and write us for Catalog J-5

DIXIE CULVERT & METAL CO.
Middletown, O. Atlanta, Ga.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

The heavy auto requires more gasoline to propel it and larger tires to carry it, both of which cost money, but the heavier car has smoother action and rides easier. It is all right for the man who can afford it, but a "Jonah" to the man who cannot.

I never like the prospect of a long husking job ahead, but when corn is worth more than fifty cents a bushel husking doesn't seem half so hard. Nevertheless, when the last load is in the crib and a snow storm seems to be brewing, there is cause for rejoicing.

Once upon a time, when a young man, I husked corn for a man who never would let the sun go down with a "down row" in the field. It was his whim that the time to pick up the "down row" was right after making it.

We are enjoying a siege of good, deep, sticky mud of the real honest quality without complaining. Perhaps it isn't the mud, but the things that come with it that we enjoy.

There are still some road supervisors that labor under the delusion that they are building roads when they pile a miscellaneous assortment of sods, weeds and other trash into the place where the grade should be and leave the traveling public to find their way along the sides somewhere between the fences.

Hay was a good crop this year and conditions were almost perfect for putting corn in the shock or the silo. Those who are short of coarse feed for their stock next year should not make any excuses, just dig into their pockets and hand over the price asked by their more provident neighbor who can see a little the other side of today.

One way to make the work of filling the silo a little easier would be to have the conveyor come down the center of the silo instead of just inside of the wall. In this way of carrying the conveyor would be a snap instead of a job.

Potatoes and apples keep best to be stored in some dry outbuilding as long as the weather makes outside storage safe. Grief be to him who leaves them one day too long.

One seldom sees a wooden pump in use nowadays. When they were common I had several. All were short lived, but they certainly did lift some water when they were "at" themselves. They were ideal for the shallow well. Now folks let a windmill or gasoline engine do their pumping.

Being a tardy convert to the catalpa as post timber, I have not yet had any set long enough to test their lasting qualities alongside hedge, but, somehow, I cannot believe they will last as long as I expect to.

There are folks in this world who will keep a hired man for the express purpose of doing chores. A man ought to be compelled to do as much as his chores each day, to keep his appetite in healthy order. When I have no more than that to do I will gladly get along without help.

Don't think you are saving anything by getting along without a good shoveling endgate. The better kind, tight enough to hold all corn that shells, will pay for their difference in cost in this season of high-priced corn.

A sure enough horseless carriage has just passed. It was propelled by a single, long-eared donkey, and was making about four to five miles an hour. Even the dog was too astonished to bark.

A part of the country has raised an immense potato crop and another part would be going without, save for those shipped in. I have been told that those having to buy, although but 500 miles away from those having a surplus, will have to pay exactly double the price those get who have them to sell, and I know the transportation will not take all that. The expense of distribution seems a big item these days.

The time of year is coming when we begin to take interest in windbreaks. A good set of cedars along the west and north of the buildings is worth a good deal, and yet because such things will not spring up almost as if by magic, most folks will not make the necessary start.

Alfalfa has proven more hardy than clover, for it has survived almost everywhere that clover has died. I know of two fields alongside, one of clover, the other of alfalfa. The clover is almost dead, but since the rains the alfalfa is as green and flourishing as ever. I claim alfalfa is something of a drouth resister.

The ever-bearing strawberry "made good" this year by producing berries until frost killed the vines. We may have these and "tame" grapes on vines that need no covering through the winter if we are willing to spend a little time in planting and caring for them. Nursery men have their faults like the rest of us, but they have done and are doing a whole lot toward making life worth living in the corn belt.

Feeding the threshing machine by hand and poking back the straw from a stationary carrier are things of the past and no one is sorry to see them go. When we stop to think of the hard knocks the farmers had to take only a few years ago we need not wonder that so many of them were so anxious to leave the farm and take up other work.

TRAPPERS

You men and boys who add to your pocket money by trapping and selling furs—Listen! Our big new Book on Trapping is just off the press. We have a copy free for every man or boy who intends to trap. The most complete trapping book yet published. Tells how and when to trap—baits to use, contains game laws and a catalog of trapper's supplies. It's *free* if you write today.

FURS

of all kinds are in great demand this season. Over ten million dollars will be paid to trappers this winter. Send us every fur you can trap or buy and get your share of this big money. Write today for free book on trapping, price lists, shipping tags, etc.,

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AMERICA'S GREATEST FUR HOUSE.
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Costs you nothing to test a set of Empire Steel Wheels for full month. Will prove them stronger, easier running, better in every way than any others. Lighten your work, save 25% of the draft, save repair bills. Write for free trial offer.

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Full Set Steel Wheels

FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c a rod for 47 inch high stock fence; 28 1-2c a rod for a 60-in. heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, $1.55. Catalog free.

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Many styles and heights. Our large Free Catalog contains fence information you should have.

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Stud Anchor. For barns, corn cribs, garages, using **concrete** wall, pier or floor. No sills needed, nothing to rot. Studs bolted to foundation.

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Two Money-Making Rules for Every Farmer —

Keep Out the Weeds and Worms

THIS IS—
John E. Robbins
the Successful Stock Breeder.
He has used SalTone 26 years on his stock farm.

What are YOU Going to Do About It?

Worms, like weeds, are parasites, because they live at the expense of others. They live for one thing only—to take everything and give back nothing. You can "wish" them away, but they won't go. They don't even know you want them to go, and if they did, it would make no difference. They are going to stay right on the job, living off of you as long as you let them. They put in 365 twenty-four hour days every year.

What are YOU Going to Do About It?

Who's the Boss On YOUR Farm Anyway—You, or the Worms?

Isn't it a sight the way the worms hog twenty-five to fifty million dollars of the farmer's hard earned cash every year just because they never heard there was a boss around?

Listen! Good Authorities Say:

—that worms are as common as are weeds after a summer shower; that nine farm animals in every ten are being starved, stunted and weakened by them. How much are these worms costing *you?* It's mighty hard to tell, because you cannot see them. But they are there just the same, and it would send the cold shivers down your back if you knew how much you are losing this year by them. Now, honestly, what *are* you going to do about it? Let them stay, or order them out?

Send the Coupon and Try 100 lbs. of

SALTONE
TRADE MARK

The Wormicide and Conditioner for All Farm Animals

SalTone Will Make YOU Boss

—of the worm situation on your farm. **SalTone** is guaranteed to kill and drive out the worms from the stomach and intestines of hogs, sheep, horses and cattle. **SalTone** is ready mixed, and animals take it like salt. It makes them hungry and gives them snap and life. **SalTone** is a guaranteed wormicide and conditioner. It must do the work or it costs you nothing. All **SalTone** dealers will refund the price paid if a reputable buyer returns the empty package and states that it did not remove the worms from his animals. **SalTone** makes money for you because it cuts many weeks off the feeding time, turns expensive grain into fat and muscle instead of food for worms. **SalTone** costs almost nothing—one-twelfth cent per day for a sheep or hog. Thousands of farmers, some of them your own neighbors are using it all the time, and say they would not be without it. Read some of their letters on the right.

SAL TONE Will Stop Your Worm Losses

What These Farmers Say Proves It!

I feel quite an interest in SalTone. Before buying it I bought a similar remedy, but found it not half so good as SalTone. SalTone is "A1", and I appreciate it to the highest degree, because it has made my stock look many times better than ever before. I will never be without SalTone again and will recommend it to all my neighbors.
Albert Miller, Batavia, N. Y.

I experimented with SalTone here at Bourbon Stock Yards, and the result showed abundant evidence of the true worth of this wonderful preparation. I took two "no account" calves, fed one SalTone, the other none. After one month the SalTone-fed calf was about the most vigorous looking and liveliest acting animal you ever saw—it had gained 50 pounds. The other calf, (without SalTone) gained only 15 pounds, and is still in the "no account"—3 cents a pound class. SalTone is worth many times its cost.
Phil D. Shaw, (*of Watkins, Carruthers & Co., Live Stock commission merchants,*) **Louisville, Ky.**

Our sheep exhibits at eleven fairs in 1912 won over $1100.00, being defeated in few instances in a single class. We have fed SalTone, your medicated salt, for eighteen months, and our men are very enthusiastic about it. In fact, we would not think of raising Shropshires without SalTone to keep them in perfect health and free from intestinal worms.
Zelora, Green.

I am more than satisfied with SalTone. I consider it the best stock tonic on earth. Every stockman should have a supply.
Fred N. Greiner, Branchville, Indiana.

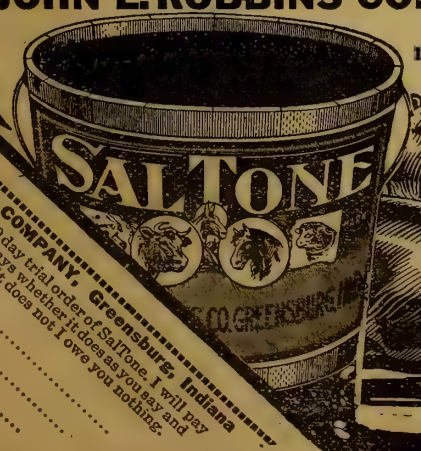
Enclosed is my third order for SalTone. I have a car of 240 pound April barrows ready to ship. My hogs have never wintered better. I have fed SalTone long enough to know it is well worth the money, and I will recommend it to my neighbors.
Earl Rogler, Atlantic, Iowa.

Try SalTone Sixty Days at Our Risk

Send Coupon—No Money

If your dealer cannot supply you, we will send 100 lbs. on trial, with our iron-clad guarantee back of it. Use as directed for 60 days, and at the end of that time pay for it, if it is as we represent. If not, we will cancel the charge. What are you going to do about it? Will you sign the coupon and mail to us today and give **SalTone** a trial—or will you let the worms eat you out of house and home?

THE JOHN E. ROBBINS COMPANY, Greensburg, Indiana



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Ship me your special 100 lb. 60 day trial order of SalTone. I will pay the freight and tell you in 60 days whether it does as you say and if it does will pay for it. If it does not I owe you nothing.

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Thousands of Dealers Now Sell *SalTone*—
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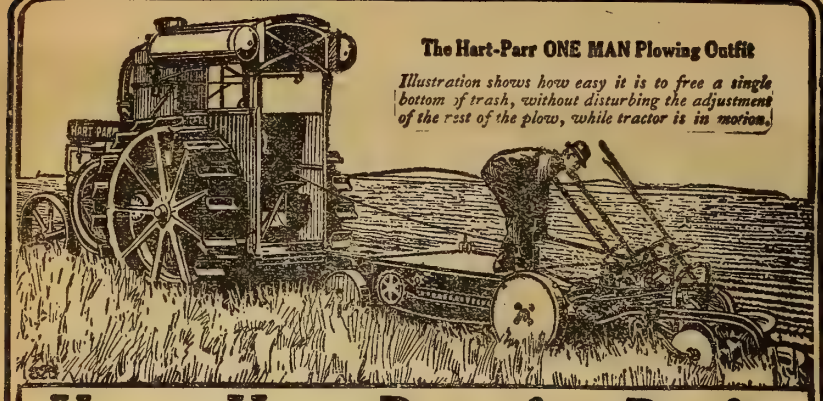
PRICES:
40 lbs., $2.25;
100 lbs., $5.00;
200 lbs., $9.00;
300 lbs., $13.00.
No mail orders filled for less than 40 lbs.; SalTone is sold in "trade marked" packages — not in bulk.



The Hart-Parr ONE MAN Plowing Outfit

Illustration shows how easy it is to free a single bottom of trash, without disturbing the adjustment of the rest of the plow, while tractor is in motion.

Use a Hart-Parr for Profit

The dirty, disagreeable chores created by the horse take a lot of time. After a hard day in the field, there are the horse chores to do—unharnessing, feeding, bedding, etc. Next morning, it's feed, clean and hitch up. Few farmers relish this.

It's different with a Hart-Parr Oil Tractor. When the day's work is over, merely stop the engine. Next morning, simply start it again—the work of only a few minutes in either case. There are mighty few owners who don't get a lot of genuine pleasure and profit operating a Hart-Parr Oil Tractor. And compared to horses, it delivers more power and better power at less expense. So why stick to inefficient horses when a

HART-PARR -OIL TRACTOR-

will do all the heavy farm work quicker, better and cheaper.

Right now, the outfit shown in the illustration is creating a big stir. It's the light Hart-Parr Oil Tractor with the big pull and the wonderfully simple Hart-Parr "Self-Lift" Plow—the outfit that is doing big things on 100 to 300 acre farms.

Time and again, this outfit has practically sold itself at Fairs where we have exhibited. Shrewd farmers are at once impressed with its great simplicity, marvelous strength, light weight and correctness of design.

The tractor has the power of 12 sturdy horses, only it is much steadier and absolutely tireless. An especially designed carburetor enables it to burn *cheapest kerosene* at all loads and under all conditions. The drive wheels have wonderful wave form lugs which afford 31 per cent greater surface contact than any other lugs. Drivers can be equipt with "Hold-Fast" extension lugs, the lugs with a bull dog grip in softest soil. One man operates and cares for the tractor, no matter what it is doing—plowing, harrowing, discing, seeding, harvesting, threshing, road grading, silo filling, hauling, etc.

Hart-Parr "Self-Lift" Plow is one-third lighter and has one-third less parts than any other. You operate it right from the engine platform. A slight pull on the rope attached to the clutch lever causes each bottom to lift straight out of the ground, in order. Another pull on the rope and the bottoms drop into the ground again. No back breaking labor. The trip mechanism does all the work. And you save the plowman's wages and board.

Read and study the unexcelled features of both tractor and plow, enumerated in this announcement. Learn why this outfit is a big money maker on farms of 100 to 300 acres.

Write today for special circulars fully describing both equipments, and get our fine catalog and literature on power farming costs. We build an outfit for every farm, large or small. We have a power outfit exactly suited to *your* requirements.

HART-PARR COMPANY

228 Lawler Street **Charles City Iowa**

100

Superior and Original Features of Design Found Only in the small, light Hart-Parr Tractor and Self Lift Plow.

Tractor—Lightest weight, yet great strength. Only 300 different parts—others have 800 to 1500. Main frame is a strong, one-piece casting. Drive wheels with wave form lugs, are solid steel castings—not built up or pieced. Driver lugs give 31 percent greater surface contact than any other. Can be equipt with Hart-Parr "Hold Fast" extension lugs, the lugs with a bull dog grip in soft soil. Especially designed carburetor operates efficiently on cheapest kerosene.

Plow—33⅓ percent lighter than any other and has one-third less parts. Combined automatic and hand lift. To raise or lower bottoms, merely pull a rope attached to clutch lever. Any one bottom may be raised with hand lift attachment without disturbing adjustment of rest of plow. Spring beam coupler enables plows to skid around or over obstructions and prevents breakage.

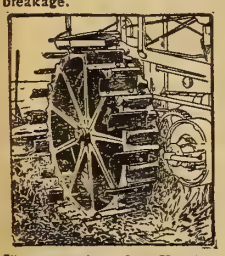


Illustration shows how Hart-Parr "Hold Fast" lugs grip the ground and pull out straight away without tearing up the soil.

Summit Knit-Nek Vest

WARM AND EASY TO WORK IN

What you need is a Summit Knit-Nek Vest—it keeps you warm without wearing a heavy coat.

It's just the thing to keep you warm and still allow you to move around with ease and comfort.

The patented Knit-Nek and wristlets protect the throat and wrists from the cold and wind.

The body is made in corduroy, whipcord, moleskin and waterproof duck, lined with leather, and leather sleeves.

Water has no hardening effect on the leather used in Summit Knit-Nek Vest—it remains soft and pliable.

Send for our interesting Style Book and give your dealer's name.

Guiterman Bros.

347 Sibley Street. **ST. PAUL, MINN.**

CURRENT EVENTS

CONSIDERABLE sentiment was created last week at the American Road Congress held in Detroit, in favor of what is known as the "business road," which term is used in an entirely different sense than the "touring road." United States Representative D. W. Shackleford, chairman of the house committee on roads, made a strong plea for the policy by which the United States shall limit its road activities in the construction and maintenance of a few ocean to ocean highways and devote more attention to what is known as "business roads." The essential thing, according to Chairman Shackleford, is easy communication between the farms and the towns and the railroad stations so that the farmer may market his crops at less expense and the towns be able to obtain farm produce more easily and at less cost. The carrying out of this policy, it is claimed, will mean cheaper transportation and it will result in lowering the cost of living. Secretary Houston also urged good roads for the farmer in preference to great transcontinental highways for automobiles. This will mean not only the lessening of the cost of moving farm products, but it contributes to a more efficient postal delivery service and to an improvement of social conditions on the farm.

CORN DAY in the public schools of Illinois will be celebrated more extensively this fall than ever before. State Superintendent of Public Instruction Francis G. Blair is at the present time preparing an illustrated circular which will be sent to every superintendent and principal in the state. This circular will contain information on selecting and testing seed corn, and, in addition, a full program is offered which, it is supposed, the teachers will carry out on the first Friday in November, this being officially designated "Corn Day." In some counties the importance of this day will be still further emphasized by the holding of corn shows where liberal premiums will be offered for the best types of corn.

THE railway commission of Iowa has recently taken a hand in a movement to prevent accidents at railroad crossings. In a communication addressed to the state highway commission attention is called to the changed methods of travel and the constantly-increasing use of highways. This means an enormous traffic over railroad crossings and hence the necessity for enlisting the support of the county supervisors in order that they may co-operate in making crossings less dangerous. One of the great railway systems has for its slogan, "safety first," and it is believed by the Iowa Railway Commission that this slogan can be extended to cover and promote the safety of travelers on public roads as well as those on railroads.

FIVE northern states of Mexico propose to secede from the federal government, the proposal being to form themselves into the Confederate States of Mexico. Matters have already gone far enough so that the president of the new confederacy has been selected together with the cabinet officers.

THE owner of some of England's greatest newspapers, Lord Northcliffe, has given an interview since his arrival in America, in which he expresses the belief that the women of England will lose their fight for equal suffrage. He points out that there are approximately 1,700,000 more women than men of voting age in England, Scotland and Ireland and that therefore the extension of the franchise to women would transfer political authority from one sex to the other. "No self-respecting man is going to be dominated by women and the men in England will not tolerate rule by women," according to this supposedly high authority. Lord Northcliffe claims that 99 out of 100 men in England are opposed to woman suffrage and both political parties stand together in their opposition to extending the franchise, all of which simply goes to show that even great men can blunder because the handwriting is now on the wall and the women of the British Isles, as well as those of the United States, will be exercising the right of franchise within a decade. This can be the only conclusion if we study the progress that the movement has made.

AN EARTHQUAKE that rocked the frame houses in the Panama Canal district last week failed to do any damage whatever to the canal. Since the shock a trip of inspection has been made by Colonel Goethals, who reports everything in the best of condition. The shock in this instance was so severe as to cause people to rush into the streets, in many instances half clad. The residents of Colon were so terrified that many of them camped in the city parks during the remainder of the night. The last serious earthquake in that region was in 1882 when many of the best buildings in Panama City were badly damaged.

ALBERT S. BURLESON, postmaster-general, has placed himself on record as favoring the governmental ownership of telegraph and telephone lines. Impetus was given the idea of governmental

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absorption of telegraph and telephone business by the results obtained in a recent investigation made by the department of justice into the so-called telephone trust. Under proper regulation it is believed that where two telephone companies operate in a city or a state a merger would be justified on the grounds that an improved service would be rendered at a less cost and with less confusion. It is believed that the strong arm of the federal government is needed in the work of merging.

SURROUNDED by the leaders of a united democracy, President Wilson signed the Underwood-Simmons tariff bill on Friday of last week. Simultaneous with this action telegrams were sent to the customs collectors throughout the country by the treasury department putting into actual operation the first democratic tariff revision since 1894. At the time of signing this important doctrine President Wilson said that the journey of legislative accomplishment had only been partly completed, that a great service had been done for the rank and file of the country, but that the second step in the emancipation of business was "currency reform." He earnestly called upon his colleagues to go the "rest of the journey" with fresh impulse. A small but distinguished audience composed of democratic leaders, including Speaker Clark, Secretary Bryan, and Representative Underwood, heard the president's short speech delivered after signing the doctrine.

THE MT. PULASKI, ILL., HORSE AND CORN SHOW.

In no part of Illinois is more attention given to the raising of good draft horses than in Logan county, and when, in 1912, a number of the enterprising breeders and farmers united in the formation of a horse show to be given at Mt. Pulaski its success was assured from the start. The satisfactory outcome of last year's show spurred the management on to even greater efforts for 1913, and when they presented a premium list showing over $3,000 in cash and twenty silver plates and cups the response was prompt, and 450 head of horses were presented before the judges at this year's show.

Not alone in numbers did the show mark an improvement over 1912, but there was a decided advance in the quality. Last year's show had proven a great object lesson. Logan county is one of the richest agricultural districts in Illinois, with a very large percentage of the population of German ancestry, than whom there are no better farmers. The sturdy draft horse has always been much in evidence in this part of the country, and many of the best stallions and more of the different breeds that have been imported to the country have found a permanent home in Logan county. The results of the progressive spirit were seen in the exceptionally good lot of horses shown at the 1913 Mt. Pulaski exhibition.

In addition to the horse show there was conducted a corn exhibition that was well worthy of consideration. Logan county is in the heart of the corn belt and when one considers the fact that recent sales of land have reached well above $300 per acre, some idea may be had of the fertility of the soil. Logan county suffered from lack of rain this year, but notwithstanding this fact, the corn display was an excellent one. In addition to the corn display there was a most excellent showing of wheat, of which Logan county produced a good crop last year. Any reference to the show would not be complete without mention of the domestic science part of the affair. The ladies are certainly to be congratulated on the fine display of food and needlework given by them. Their portion of the 1913 show was by no means the least attraction.

That the people of Logan and adjoining counties are deeply interested was shown by the crowds in attendance. Fully 10,000 persons attended the show Thursday, with correspondingly good crowds on Wednesday and Friday. The exhibition was given around the public square, giving ample room for all to see each class, of which there were 104, covering both horses and mules.

There is much of historical interest connected with Mt. Pulaski. Three-quarters of a century ago it was the county seat of Logan county, and in the old courthouse, now utilized as a postoffice, were heard the pleas of Abraham Lincoln, Stephen Douglas and other great men whose names are a part of American history.

The management of the show was in most efficient hands. George J. Stoll, Chestnut, Ill., is president; John H. Tendick, Mt. Pulaski, Ill., vice-president; B. H. Keck, Mt. Pulaski, Ill., general manager; T. A. Scroggin, Mt. Pulaski, Ill., treasurer, and Chas. Schmitz, Mt. Pulaski, Ill., secretary. The show is financed entirely by contributions from the public-spirited citizens of Logan county, and everything is free to exhibition, their being no entrance fee or charges of any kind. All importers are barred from exhibiting, a fact that gives great impetus to the affair. The judges this year were: heavy horses, Edwin Hobson, Clifton, Ill.; light horses, M. Biers, Mendota, Ill.; mules, Ira G. Sharp, Sharpsburg, Ill.; household science, Mrs. H. J. McMurry, Lincoln, Ill.; grain and vegetables, Walter H. Rowe, Decatur, Ill.

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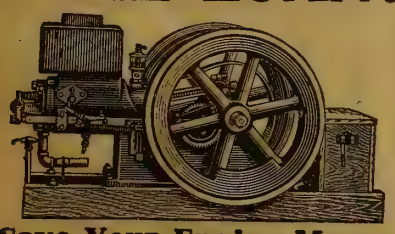

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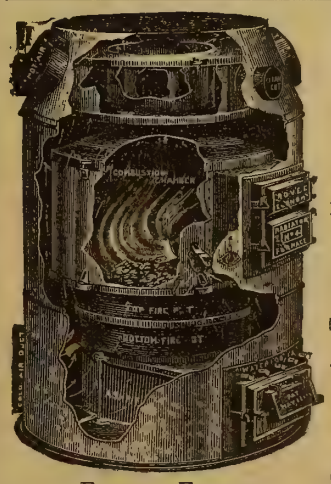

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SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

MONTHLY WAGES—HOLIDAYS—WEEDS.

A Subscriber, Marengo, Iowa.—(1) What can constitute a month's labor on a farm, twenty-six working days or from a certain date of one month to the same date of the next month? (2) Can a man hired by the month to work on a farm claim wages for legal holidays when he does not work on such days? (3) Is a land-owner required by law to destroy noxious weeds growing on the highway along his land?

Answer.—(1) When a man is hired by the month, calendar months are considered, and one month means from a certain date in a month to the same date in the next month. (2) A man hired by the month cannot recover wages for legal holidays when he does not work on such days. (3) A land-owner is not required by law to destroy noxious weeds growing upon the highway. The law requires it to be done by the township trustees and the road superintendent. It is the duty of land-owners to destroy noxious weeds growing upon their lands adjacent to public roads.

CHANGING COUNTY ROAD.

A Subscriber, Eagle Grove, Iowa.—The county board of supervisors has laid out a county road near the city which runs in an indirect course in order to pass by a farm owned by a member of the board. The other members do not wish to interfere and oppose such course against the wishes of the member who owns the land. A number of persons want the road to run directly to the city. What can they do to effect this purpose.

Answer.—This is a difficult problem. The board of supervisors have power to establish roads and when they do so, and the proceedings are regular, it is a difficult matter to make a change. If, in the establishment of a road, the supervisors act fraudulently or irregularly, their proceedings may be enjoined by the district court, but if their proceedings are legal and regular, there is no adequate remedy. The persons who want a direct road might petition for it, but with not much prospect of success.

INHERITANCE IN NEBRASKA.

A Nebraska Subscriber.—(1) A and B are husband and wife and have no children. In case A should die first, what portion of his property would his wife be entitled to under the law of Nebraska? (2) Can B claim what money she put into the property? (3) If they adopted children what share of the estate would they get? (4) Nineteen years ago a man came to this country from England leaving there a wife and daughter. He never divorced his wife and married again in this country and has here two children. The daughter who is over eighteen years old came to this country and worked for her father one year for the $60 he sent her for passage money, without further wages. Can she recover wages and what would be her share of her father's estate in case of his death without a will?

Answer.—(1) The widow would be entitled to all wearing apparel, household goods, and what property was exempt from execution, other personal property to the value of $200, and support for one year, and, besides this, one-half of the balance of the property. (2) She can. (3) One adopted child would get half the property after the widow's allowance. (4) The man is probably guilty of bigamy. His daughter cannot recover wages. If he dies without a will, she will get an equal share of his estate with the other children.

PUBLISHER OF PAPER.

A Subscriber, Anamosa, Iowa.—Last October a certain publisher sent his paper to my address, without my ordering it, or having any communication with him whatever. The mail carrier brings the paper to my door and delivers it with other mail. I have just received a letter from a collection agency demanding $3 for the paper. Can the publisher recover the amount by law?

Answer.—We are of opinion that the publisher cannot recover pay for the paper, under the state of facts set forth. When a person actually subscribes for a paper, and it continues to come to him after his subscription has expired, he should refuse to receive it, and notify the postmaster that he will not receive it, and the duty of the postmaster is to notify the publisher, but if the subscriber continues to receive the paper after the expiration of his subscription, he is liable to pay for it.

UNPAID CHECK—SUIT FOR DAMAGES.

An Iowa Subscriber.—(1) A rented a farm in Iowa to B and B borrowed a certain sum of money from C. B then held a sale of his property, intending to move to the state of Minnesota and gave C a check for the borrowed money, telling C he would let his deposit at the bank stay there for ten days. B did not remove his deposit for four weeks and C failed to cash his check during that time and B's account was then transferred to a Minnesota bank. Is said check of any value to C and who is responsible for the amount of it? (2) In the spring of 1912 A rented 270 acres of land to B. In June A sold the farm to C, reserving nothing. In September C sold the farm to D, reserving nothing and D was to take possession March 1, 1913. During the winter of 1912 B removed from the farm all the materials of a chicken house worth $50, which had been partly torn down when D bought the place. Had B any right to do this and who must bear the loss?

Answer.—(1) The check cannot now be cashed, but B is liable for the amount it calls for, and C can sue him in Minnesota and recover judgment for the amount of the check. He should first present it for payment to the bank on which it is drawn, and have it endorsed "no funds," and then send it to a lawyer in Minnesota for legal pro-

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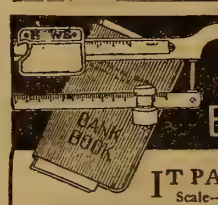

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ceedings there. (2) B had no right to move said materials, and is liable to D for the value of them. D can sue B and recover judgment for the amount.

ASSUMED NAME.

An Illinois Subscriber.—A young girl came to the home of A and B about eleven months ago and was introduced by a name which was not her real name, by a young woman who came with her. She actually belonged to a disreputable family, but had the appearance of good breeding. She staid with A and B for ten weeks and always contended that the name by which she was introduced was her real name. While there she got into B's room one night and broke the seal of a letter and committed some other minor trespasses. B told these things to the young woman who had introduced the girl and she told B about the shortcomings of the girl's family. B, being an invalid, was much annoyed and worried and became more ill because of the matter. (1) Had the girl a lawful right to stay with A and B under an assumed name? (2) Can B recover damages on that account?

Answer.—(1) The girl did not commit any criminal offense by staying with A and B under an assumed name. There is no law in Illinois against such conduct. (2) B cannot recover damages against the girl on account of her using an assumed name.

RAILWAY CROSSING HIGHWAY.

A Subscriber, Mount Hamill, Iowa.—The C. B. & Q. R. R. Company has an overhead crossing above the public road near this place, being a bridge over a small stream also. The stream occupies about half of the road under the bridge. The pilings of the bridge are about twelve feet apart, leaving only one passage-way under the bridge about twelve feet wide. The highway runs east and west under the bridge and then turns south along a high embankment, and the view of the road is obstructed at this place from either direction, and several serious accidents to autos and teams have occurred by reason thereof. (1) Can the railroad company be held liable for damages in such cases? (2) What is the law concerning railroad crossings in such cases?

Answer.—(1) It is impossible to answer without more information as to the nature of the accidents and how they occurred. From what is stated our opinion is that the railroad company cannot be held liable for damages. (2) The law requires a railroad company to construct at all points where a highway crosses it, sufficient and safe crossings. You might apply to the board of railroad commissioners for relief, by a petition stating the facts, and probably they would act upon the matter.

STEPCHILDREN NOT HEIRS.

A Nebraska Subscriber.—I am the only son and child of my mother. My father died twenty-five years ago. In 1890 my mother married again and in 1895 she died. My stepfather owned a farm when he married my mother, but sold it afterwards and bought another. My mother had only about $200 when she married my stepfather. After my mother died my stepfather sold his farm, but still owns some town property. My stepfather and I could not get along well together after mother's death, and I left him. He gave me at the time a pair of mules and harness. I am married now and have a place of my own. (1) In case of my stepfather's death will I be entitled to any of his estate under the laws of Nebraska? (2) In case I should die before my stepfather, would he be entitled to any of my estate?

Answer.—(1) You would not. Stepchildren are not heirs at law of their step-parents and cannot inherit property from them. (2) Your stepfather would not be entitled to any of your estate. He is not of kin to you, and cannot be your heir.

STATE PAY FOR CATTLE—DEED.

A Subscriber, Hanover, Iowa.—(1) I own a herd of Shorthorn cattle that I would like to have inspected for tuberculosis. If upon inspection it is found that cattle have to be killed by the state veterinary surgeon, does the state pay for them or does the loss fall upon the owner? (2) I own a farm in Minnesota. The deed calls for eighty acres more or less. It is 166 rods long by eighty rods wide. There is actually eighty-three acres in the tract. If I sell this land for eighty-three acres how can I give a deed for eighty-three acres when my deed is made for eighty acres?

Answer.—(1) The state veterinary surgeon and the nearest justice of the peace fix the value of cattle so killed. If they are unable to agree, they call in another justice of the peace and their judgment is final if property is not worth more than $25. If of greater value either party may appeal to the district court. The state treasurer then pays the amount fixed to the owner of the cattle upon a warrant issued by the state auditor. (2) When you sell the land you make your deed describing the boundaries thereof, and add the words, "containing eighty acres more or less," and this will cover the entire tract although there be eighty-three acres in it.

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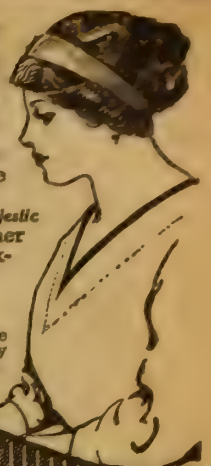

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Buying a range isn't an every day transaction. To be absolutely sure of complete satisfaction—don't buy from printed descriptions—see the *Great Majestic* (dealer in nearly every county in 40 states) compare it point for point with any other range. Then you can buy intelligently and be sure of a range that will last a lifetime—the

Great Majestic Malleable and Charcoal Iron Range

A Perfect Baker—A Fuel Saver

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ONLY range made of malleable iron and charcoal iron. Charcoal iron WON'T RUST LIKE STEEL—malleable iron can't break. Put together with *rivets*—joints always absolutely tight. Body lined with *pure asbestos board*, covered with iron grate—*you can see it*—insuring a *dependable* baking heat with *half* the fuel required in ordinary ranges.

All Copper Movable Reservoir—Other Exclusive Features

Reservoir in *direct contact* with fire, heats through copper pocket *pressed* from one piece—exclusive patented feature. *Oven thermometer—accurate all the time.* All doors drop down and form rigid shelves. *Open end ash pan—ventilated ash pit—ash cup.*

Contains Greatest Improvement Ever Put In a Range

—increasing strength and wear of a *Great Majestic* more than 300% at a point where other ranges are weakest. Ask about it. Best range at any price. Any *Majestic* dealer can furnish any size or style *Majestic Range* with or without legs. Write for our booklet, *"Range Comparison."*

Majestic Manufacturing Company

Dept. 30 St. Louis, Mo.

The Range with a Reputation

It Should Be In Your Kitchen

We've often said that we believe the Hupmobile is the best car of its class in the world.

And we believe, too, that the new 1914 Hupmobile will make it even harder than before for you to side-step that self-same conviction.

Because you will find in the new Hupmobile:—

A strong and sturdy pressed steel frame.

A pressed steel Pullman body, made by the builders of steel railway cars.

A greater amount of costly aluminum than used in any other car of its class.

A greater amount of costly spring steel than used in any other car of its class.

A powerful, long-stroke motor.

An original, distinctive design.

Other features the new Hupmobile has in plenty—but these are sufficient to show that our belief in the Hupmobile is based on the actual intrinsic merit of the car itself.

The pressed steel frame, the pressed steel Pullman body, the costly aluminum, the costly spring steel, the long-stroke motor—these things, it is true, are not absolutely essential to a motor car—cars are daily built without them.

But they make for long life and strength and safety—and they are essential for the kind of service the Hupmobile is built to give.

And Hupmobile service means day-after-day work on country roads; and just as much work daily as the farmer may demand.

Send a card so that we can give you the complete details of the 1914 Hupmobile.

We'll be glad, too, to arrange for a demonstration with the nearest dealer, if you say so.

Hupp Motor Car Company, 1224 Milwaukee Avenue, Detroit, Michigan

Hupmobile

"32" Touring Car or Roadster—$1050 f. o. b. Detroit

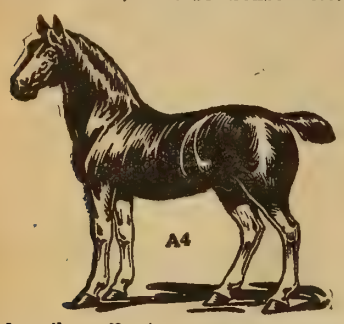
Four-cylinder, long-stroke motor, 3¼x5½ inches; unit power plant. Selective type transmission, sliding gears. Center control. Full floating rear axle. 106-inch wheel base. Tires, 32x3½, Q. D. Rear shock absorber. Magneto rain shield. Equipment—Rainvision, ventilating windshield; mohair top with envelope; Hupmobile Jiffy curtains; speedometer; cocoa mat in tonneau; Prest-O-Lite; oil lamps; tools. Trimmings, black and nickel.

"32" Touring Car or two-passenger Roadster with Westinghouse two-unit electric generator and starter; electric lights: over-size tires, 33x4 inches; demountable rims, extra rim and tire carrier at rear—$1200 f. o. b. Detroit.

Make Your Lame Horse Sound, Like This

You Can Do It While He Works.

We want to show you that there isn't any affection that causes lameness in horses that can't be cured, no matter of how long standing. We want to send you our instructive book, "Horse Sense" No. 8.



It describes all. And with the book we want to send you an expert's diagnosis of your horse's lameness. All this is absolutely free. Simply mark the spot where swelling or lameness occurs on picture of horse, clip out and send to us telling how it affects the gait, how long animal has been lame and its age.

We absolutely guarantee Mack's $1,000 Spavin Remedy to cure Spavin, Bone or Bog Spavin, Curb, Splint, Ringbone, Thoroughpin, Sprung Knee, Shoe Boil, Wind Puff, Weak, Sprained and Ruptured Tendons, Sweeny, Shoulder or Hip Lameness and every form of lameness affecting the horse. We have deposited One Thousand Dollars in the bank to back up our guarantee. Cures while he works. No scars, no blemish, no loss of hair.

Your druggist will furnish you with Mack's $1,000 Spavin Remedy. If he hasn't it in stock, write us.

McKallor Drug Co., Binghamton, N. Y.

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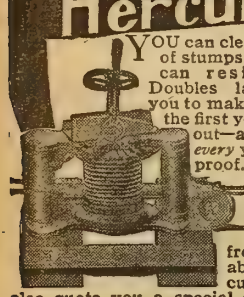

YOU can clear an acre or more of stumps a day. No stumps can resist the Hercules. Doubles land value—enables you to make $1200.00 on 40 acres the first year after stumps are out—and $750.00 in crops *every* year after. Get the proof. Why not

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Book tells all the facts—shows many photos and letters from owners—tells all about the many Hercules features. We'll also quote you a special money-saving price proposition that *will interest you.* Address

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BIG MONEY IN TRAPPING

We are paying thousands of dollars each year to trappers. Any man or boy living in rural districts can add many a dollar to his earnings by putting in his spare moments trapping. Our price list tells you how to procure the most money for your skins. No commission. Furs held separate if requested. Write for price list and shipping tags. Address

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Hog Cholera

Can be prevented and stoped. Recent tests have proven the efficiency of a treatment which immunes well hogs, and saves sick hogs. Death to hog worms. Any one can use it. $5 case treats 40 hogs. Book and particulars free. Agents wanted. DR. D. C. SNODDY CO., Dept. O, Nashville, Tenn

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Hog Cholera, Typhus Fever and Contagious Pneumonia.

By A. L. Beverly, D. V. M.

THE YEAR of 1913 has been a notable one in the history of Iowa's hog raising, namely, because of the large number of animals lost and of the poor results obtained from vaccination.

At no time has the serum treatment been used as generally throughout the state as in the past year. The results obtained have been far below the standard expected, consequently many farmers are condemning serum on the grounds that it is inefficient in preventing cholera. There must be a reason for the failure of this treatment in so large a number of cases. It may be due, first, to the use of poor serum; second, to good serum not administered with the proper dosage; third, to vaccinating for cholera when another disease is present.

I believe that the first two may be dispensed with as not answering the question, as it is hardly probable that these two would be so prevalent in so large a territory. The third is the one in my estimation that is the reason for the failure of the vaccination in so many cases.

There is a strong tendency among farmers to call any disease of the hog, cholera. They then proceed to vaccinate and when they do not obtain the desired result the serum treatment receives a black eye. I believe that 50 per cent of the hogs lost in Iowa this year have died of the so-called typhus fever associated with contagious pneumonia and I know that in Hamilton county the per cent will run around 75 to 90.

The disease called typhus fever resembles cholera very closely not only in the clinical symptoms, but in the post-mortem lesions. Many farmers who have had the cholera dozens of different years have been fooled by this disease, have had their hogs vaccinated when they were taken sick and have obtained no benefit from it. This has caused a great prejudice against the serum treatment in this state in the past year.

The disease, typhus fever, affects pigs of all ages, which is the opposite of cholera. The pigs affected go off feed, some of them walk around as though they were looking for something, holding their heads close to the ground; many of them burrow in an old straw pile or other litter as though they were trying to hide. They are very hard to rouse up when in this state. A good many of these animals do not go off feed, but eat heartily until they die. This is an essential difference from cholera. Sometimes the animal vomits or attempts to. The latter may throw them into muscular spasms where they grind their teeth, rear up on their hind legs and go through other unnatural performances.

The temperature runs very high, going as high as 109 F. At first there is constipation, which is later followed by a diarrhea which is of a thin, mucilaginous character with a very offensive odor. The eyes are also affected, the lids become swollen, the mucous membrane turning to a dark brown color and there is a copious discharge from the eyes. In many cases I have seen pigs go entirely blind, due to this discharge causing the lids to stick together.

Generally about three days after the disease has commenced small red spots apear on the skin in the region of the navel, thigh and about the throat. These spots are at first small and red, but they later cover the entire lower surface of the body and turn to redish purple color. These spots sometimes contain vesicles or pustules and later on the skin affected may slough or rot away. In many cases this discoloration of the skin may be entirely absent.

There is no cough to speak of, but the respiration is greatly affected. The pigs become emaciated especially about the flanks until they finally die. Most of them live about one week's time though in some severe forms they die in twenty-four hours while in some cases they live for two or three weeks.

The most important differentiation between cholera and typhus fever is the peculiar paralysis of the hind quarters which exists in the latter disease. This is generally noticed in three or four days after the pigs have taken sick. They walk with a stumbling gait, their hind quarters swerving from one side to the other. This symptom will be found in at least 80 per cent of the cases. This disease is generally found associated with a case of pneumonia and also cholera and it may be found in the same herd.

Many farmers who have had large experience in hog raising will no doubt notice the similarity of the symptoms in the typhus fever just described and in hog cholera.

I have refused many farmers vaccination because I could not find sufficient evidences of cholera to warrent it. Many of these vaccinated anyway with the result that they lost their hogs and the money paid for serum and services of the party vaccinating them. In regard to vaccinating, every farmer should vaccinate while his pigs are healthy, that is, early in the summer when they weigh around fifty pounds. Sometimes this is not possible, owing to the pigs becoming diseased before it can be accomplished, but in most cases it can be done at this time. With the use of good serum properly administered he is absolutely sure of the protection against cholera and it is also an aid in warding off the other diseases named because they are many times associated together. I have vaccinated herds this summer where there were symptoms of cholera, typhus and pneumonia. The per cent saved in these cases runs from twenty to sixty, this being due to preponderance of the cholera over the other diseases. These results cannot be obtained unless post-mortems are held on a number of animals and it has been ascertained what the disease in question is.

As for finding remedies in regard to preventing these diseases, a farmer is wasting his time and money. No doubt many hogs are wormy and when in this state they are more apt to contract any disease because of the decrease in their natural resisting powers which they should have when in good health. I have held post-mortems upon a good many hogs this summer and have not found a single one that had enough worms to affect his general health. Ninety-five per cent of these pigs were receiving or had received some sort of a worm exterminator, so this phase of the subject is hard to determine.

As to preventing these diseases keep your pigs as healthy as you can. Do this by feeding what you please, it makes no difference so long as you keep them thrifty. Keep your pens clean, use plenty of dip as a disinfectant at least once a week and burn all loose litter, etc., at regular intervals. Endeavor to keep away stray dogs and cats, although this is an almost impossible proposition, but sometimes a great deal may be gained by keeping a lookout for these animals, as they are the main distributors of these diseases. Do not fool with quack remedies, but when your hogs are taken sick consult some one who is capable of diagnosing the trouble and giving them the proper treatment.

Spring pigs by the great spotted Poland China boar are advertised on page 47 by J. D. Gates & Son, Ravenwood, Mo.

Quality must be the key note of British agriculture, as the area is far too small to enable farmers to grow the quantities of produce that the newer countries of the world can yield; and in no connection is quality of greater importance than that of the cereal crops. Wheat, oats and barley still occupy a considerable portion of the land, and the condition in which they are put on the market substantially affects the prices they realize. —[London Telegraph.

SAVE-THE-HORSE

(Trade Mark Registered.)

THE LAME HORSE is never cured whose owner reads and doubts,—BUT FAILS TO ACT—Here is a case in Point,—And what Happened to this Subscriber is Taking Place with Thousands.

Letter No. 1 Orleans, Vermont, April 26th, 1912.
Troy Chemical Co., Binghamton, N. Y.—Your adv. has given me courage to try again. I have a valuable pacer. Two years ago he went lame. I tried every remedy and Doctors have blistered three times for spavin and twice hip. The symptoms are—etc., etc. I determined to see what you think. HALE MASON.

Letter No. 2
Orleans, Vt., May 2nd, 1912.—I received your letter and book yesterday and believe you are right about its being a bone spavin. I was so encouraged I drove eight miles and bought a bottle of Fred D. Pierce, druggist at Barton, and will closely follow your special instructions. Thanking you for your quick reply to my first letter, I remain, HALE MASON.

Letter No. 3
Orleans, Vt., Oct. 2, 1912.—Perhaps you expected to hear from me before, but I have been waiting to see if any trouble would return after stopping the treatment. I am pleased to say the horse is well. I cannot thank you enough for your interest and the advice you gave. If I had known about it two years ago it would have saved me a lot of money. Yours respectfully, HALE MASON.

Save-The-Horse has stood alone and unique among veterinary remedies for over seventeen years.

Every bottle of Save-the-Horse is sold with an iron-clad contract that has $60,000 paid-up capital back of it, guaranteeing to permanently cure or refund the money no matter whether it is Bone or Bog Spavin, Tendon disease or Puffs—nor how aged, serious or complicated the lameness or blemish may be.

But write, describing your case, and we will send our—BOOK—sample contract, letters from Breeders and business men the world over, on every kind of case, and advice—all free (to horse owners and managers).

Write! AND STOP THE LOSS.

TROY CHEMICAL CO. 3 Commerce Ave., Binghamton, N. Y.

Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by us Express Prepaid.

Answer This Today

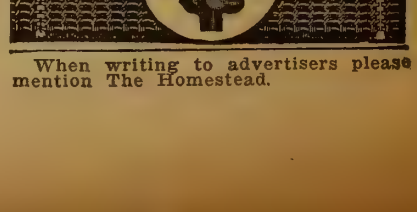
Before You Buy Fencing

Get our FREE factory book and see how we make both the wire and the fencing, cutting out the usual wire maker's profit. You get the bene fit.

SQUARE DEAL FENCE

stays tight and trim the year 'round. Has wavy strand wire s double grip, self draining lock, heavily galvanized springy wire. Every rod guaranteed. Ropp's New LightningCalcutatorFree with each catalog. Write today.

Keystone Steel & Wire Co., 622 Industrial, Peoria, Ill.



When writing to advertisers please mention The Homestead.

DAIRY

CALVES IN LATE SUMMER.

To the Editor of The Homestead:

On our own farm we have found that late summer is one of the most trying times of the year for calves. There are a number of reasons why this should be so. Perhaps flies do more than any other one thing to make life miserable for the young stock. As the season advances flies stick harder than ever, especially after the first mornings begin to be cool. The sunshine seems to warm the pests up during the day and cause them to burrow deep into the hair of the animal and worry him seriously.

Two or three things may be done to prevent a part, at least, of this annoyance. The calves may be kept in the stable during the day. Many farmers have made this their practice. Indeed, we have been doing so for a number of years. But where that is done, much pains needs to be taken to keep the pens clean, or not much will be gained. Wet straw must often be replaced by dry and the floors should be arranged to furnish as good drainage as possible.

If the calves are permitted to run out, some building in the yard ought to be provided for escape from flies. If this be not done, all the calves gain by the out-of-door air and exercise will be lost fighting flies. I have seen calves actually grow thin and smaller on account of such treatment, instead of making growth, as they should be doing every day.

Again, it pays to feed calves some good hay at this season of the year, whether they are out on the ground or not. Nothing is better for them than this. Grass is all right. Let them have all they want; but by no means neglect the hay. There is something about hay that tends to keep calves free from bowel troubles. The juice of dry grass appears to act as a tonic and counteract any disposition to have diarrhea.

Still another good thing for calves at this, or any other time of the year, is plenty of good, pure water. It must be that calves really suffer for lack of drink on many farms. Often it seems to be thought that if the calves have what milk they will drink, they do not need water. This is very far from the truth. Give the calves the milk they need, but neyer neglect the water. A few days' trial will convince anybody on this point. Calves will grow faster and do better in every way if they are never permitted to lack for water. A Subscriber.

WORLD'S RECORD JERSEY.

Eminent's Bess, a member of the Jersey family, so popular with many Wisconsin breeders, has broken the world's record by the production of 963 pounds of butter fat in one year. She produced 18,783 pounds of milk, the butter fat contents of which made 1,132 pounds of butter. This cow is owned by Walter S. Prickett, Sidnaw, Mich., in territory

WORLD'S CHAMPION COW, EMINENT'S BESS.

which adjoins northern Wisconsin and is similar in many respects to that country which is being used, with such success, for dairy purposes.

The test was made under the direction of the Michigan Agricultural College, of which R. S. Shaw is dean.

Mr. Prickett is the owner of one of the largest, if not the largest, farms in the upper peninsula, known as the "Roycroft Farm." His farm, it is interesting to note, is on what is called "cut-over" land.

SOURCE OF SUPPLY OF COWS.

To the Editor of The Homestead:

Ever since we came on the farm we have made it a point to raise all the heifer calves we could. The great difficulty with us has been to get these some years. Our cows would have a disposition to give us calves of the male sex, just when we wished heifers most. And we now have a fine lot of young stock, ranging from calves up to cows three or four years of age. We are beginning to realize the worth of better stock now, as these heifers are all either thoroughbreds or good grades.

And there is no reason why these young cattle should not be worth a good lot of money. In fact, they are so already. We never have offered any of them for sale, as we were intent upon building up a dairy which would be exclusively of good cows; but I have no doubt that if we were to place these young animals on the market, they would bring splendid prices, for cows of all kinds are high and all the time growing higher.

And from present appearances such stock will have a higher and higher value all the time. Even if no extra effort should be made by the farmers of this country to increase the number of their cows, the natural increase in population of the country would cause a greater demand than ever in the past for dairy cattle.

But when so many are selling off their stock as seems to be the case lately, partly on account of the dry

Pays for itself in cream saved.

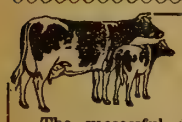
BEATRICE Cream Separator

BEATRICE CREAMERY CO.
Chicago, Lincoln, Neb.
Des Moines, Ia. Dubuque, Ia.

Roof Your Silo With Steel

The Economy Galvanized Steel Roof is securely nailed to rafters which adds strength to the silo. It is permanent—easy to put on. When connected with a grounded wire protects your silo from lightning. The Economy Roof fits silos of all constructions. Wood, cement, hollow tile, brick or steel. It's cheaper and more durable than wood. Write for illustrated folder.
ECONOMY STEEL PRODUCTS CO., 20 N. Third Street, DES MOINES, IOWA

HOLSTEIN-FRIESIANS.



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HOLSTEIN CATTLE

The successful dairyman has judgment, business ability and courage. Cutting down expenses is not enough. He must know how to invest.

Apply business methods to your farm, keep a record of the net profit from each cow and you'll soon convince yourself of the economy of putting your money into efficient milkers.

You'll find one good Holstein will do the work of two, perhaps three, ordinary cows. You save greatly on feed, and divide the expense of housing and labor by two or three.

Send for FREE Illustrated Descriptive Booklets
Holstein-Friesian Association
F. L. Houghton, Sec'y, Box 113, Brattleboro, Vt

JERSEY CATTLE

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

Jerseys For Profit
AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., N.Y.

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

AYRSHIRE CATTLE.

DAWSON AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

FRED TSCHUDY & SON
Monroe Wisconsin.

SECOND ANNUAL PUBLIC SALE

140 HOLSTEINS

STERLING, ILL., OCTOBER 21-22, 1913

100 COWS 30 HEIFERS 10 BULLS

THIS sale is rich in the blood of the greatest families: KING SEGIS, HENGERVELD DE KOL, The KORNDYKE, AAGGIE CORNUCOPIA JOHANNA LAD, PAUL BEETS and **other noted** families. Many of the cows have large A. R. O. records. All our splendid milkers that give from twelve to twenty thousand pounds per year. **Including Ten Record Daughters** of that great young sire

SIR NETHERLAND CORNUCOPIA
and bred to
PRINCE HENGERVELD SEGIS

whose two nearest dams average over 31 lbs. butter, 600 lbs. milk in seven days; whose seventeen nearest dams average over 25 lbs. butter and over 500 lbs. of milk in seven days. Choice heifers bred to

KING CORNUCOPIA HENGERVELD SEGIS

whose four nearest dams have records that average over 32 lbs. butter and 584 lbs. of milk for seven days, and the average record of his 17 nearest dams is over 26 lbs. butter and over 500 lbs. milk for seven days.

10 GREAT YOUNG BULLS, two of them state fair winners, and the rest of them out of high-record dams and by great sires. The cows are the kind that have made

WOODLAWN FAMOUS FOR WORKING HOLSTEINS,

the strong, persistent, steady, all-the-year-round milkers. All cattle over six months tuberculin tested. All are registered and transfers will be furnished promptly.

No Better, More Reliable, Dependable Lot of Cattle will go Through Any Sale Ring This Year

Send for catalog. Plan to attend and see for yourself the greatest working farm dairy in the West. Mention Homestead. Address

WOODLAWN FARM - - - STERLING, ILLINOIS

AUCTION SALE HIGH-GRADE HOLSTEIN-FRIESIAN COWS, HEIFERS AND BULLS AT SO. OMAHA, NEB.

LIVE STOCK PAVILION, TUESDAY. OCTOBER 21, 1913

Beginning promptly at 10 o'clock A. M.

65 COWS and heifers either just fresh or to freshen soon. A lot of heavy springers. A lot of these cows will weigh better than 1,200 and are the kind that will produce 50 to 70 pounds of milk a day, and 10,000 pounds or better a year. Positively the best lot of cows ever sold in one lot at auction. All home raised, acclimated and ready for business. Fifty heifers one to two years old, nearly all bred. Some to calve this winter. As nice a lot of milky heifers as ever were offered. Fifteen young calves of both sexes. Ten registered bulls ready for service, and well enough bred to head any herd. Every animal tested for tuberculosis by state or federal authorities, and can be shipped anywhere. Come day before sale and inspect these cattle, as on account of the large number to be sold sale will start promptly at 10 a. m. R. E. Haeger, auctioneer. For further information address

HENRY C. GLISSMAN, STATION B, OMAHA, NEBRASKA

HOLSTEIN-FRIESIAN CATTLE.

65 HEAD REGISTERED HOLSTEIN-FRIESIAN COWS AND HEIFERS

I AM offering a splendid lot of cows and heifers for sale, due to calve in the fall to a son of King of the Pontiacs, or Sir Pontiac Ragapple Korndyke. Will make prices to suit for next sixty days. Also a few bulls of serviceable age for sale. Address **ROCK BROOK FARM, Station B., OMAHA, NEB.**

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented. Bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

GRADE GUERNSEYS and HOLSTEINS

FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
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HOLSTEIN BULLS AND BULL CALVES FOR SALE.

Come and see them or write.
THE CHICAGO STOCK FARMS
R. B Young, Prop. Buffalo Center, Ia.

HOLSTEIN COWS, HEIFERS, BULLS

250 HEAD in herd. Some very choice young bull calves. Write us; let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
WOODLAWN FARM - STERLING, ILL.

HOLSTEIN and Ayrshire bred cows and heifers $250 up. Bulls all ages. Hampshire boar pigs $15 up. William Galloway Farm, Waterloo, Iowa.

weather and partly from a desire to realize on the cows sold, it is doubly necessary that the man who has good luck should receive a good price when he parts with it. I am sorry to see farmers have to sell their cows so generally as they are now. It seems to me it will prove to be a serious and costly mistake. Suppose the price does appear attractive. What are we going to do after the cows have been sold off and eaten up, as most of those sold under pressure will be? Is it not as a matter of fact digging one's own house to pieces and selling it by the little? Soon we will find ourselves without a shelter and storm coming on.

So it seems to me to be the duty of every farmer to grow more heifer calves. There is no more urgent demand at the present time than this. It does not cost a great deal to grow a calf. Care is the principal thing; and if every farmer would grow just a few, it would not be long before the scarcity would be a thing of the past.

E. L. V.

E. Myers, President, E. Myers Lye Company

Rid Your Hogs of WORMS and You'll Have HEALTHY Hogs

An enormous part of the swine plague known as "cholera" that sweeps over the country killing hogs and causing a loss of millions of dollars every year, is not **cholera** at all. It is stomach, intestinal or lung **worms.** The symptoms of hog worms are easy to detect. When you see a hog slinking around with his nose to the ground, hair sticking up, tail down, coughing, off his feed and losing flesh, don't jump to the conclusion that he's getting "cholera". He has **worms,** and if you don't act quickly your whole herd will have them, too. Feed all your hogs **twice daily** according to directions on every can on a ration mixed with

Merry War Powdered Lye

It destroys hog worms quicker than anything else in the world. And, even though there should be an epidemic of real hog cholera in your neighborhood, **your** hogs will be healthy and strong to resist it. MERRY WAR POWDERED LYE is the **proven preventive of hog cholera.**

The Folly of Vaccination

Vaccination may be all right for putting a hog's system in a condition to resist the cholera germ. But no amount of vaccination will cure a single hog of worms, nor will it make him well if he's sick. Vaccination will not keep him on his feed, make him fat, sleek, skin free from scurvy, and condition him so that he will be a prime hog at market time. **That's what** MERRY WAR POWDERED LYE does. Feed it to your hogs from weaning time on and you'll have healthy hogs. Cholera won't alarm you and your hogs will weigh in heavy.

Read This Convincing Evidence

C. F. NEWMAN, Lebo, Kan. "Have best results with my hogs and no sickness since I've used Merry War Powdered Lye while our neighbors have lost heavily."

Refuse Substitutes

Don't experiment with ordinary, old-fashioned lye. **It might prove dangerous.** MERRY WAR POWDERED LYE is the specially prepared lye that is **safe** to feed hogs. Experience has **proved** its worth. **Insist** on getting it. **There are no substitutes.**

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10c A Can—120 Feeds

MERRY WAR POWDERED LYE is for sale at most grocers, druggists and feed dealers. It is convenient to buy in case lots, 4 doz. cans, $4.80. **Order direct from us in case lots (4 doz. cans $4.80) if dealers won't supply you.**

FREE If your dealers can't supply you write us stating their names. We will see that you are supplied and also send you, **free,** a valuable booklet "How To Get The Biggest Profits From Hog Raising."

NEWS OF THE SALE RING

Horswell Angus Sale.

The first sale of Aberdeen Angus to be held this fall was that of J. R. Horswell, Estherville, Iowa, on October 1st, and it was a good one from start to finish. This was a dispersion sale, as the senior Mr. Horswell is retiring from the farm, and he disposed of sixty-four head at the splendid average of $148. Eleven bulls in the sale made an average of $195, including two young bull calves, and then there was not enough to go around. The Horswell sale was but an eye opener to the cattle situation at the present time. A few years ago Mr. Horswell went out and purchased a few good Angus cows and a good bull and from this modest beginning began the breeding of Angus cattle. The cattle were kept on the farm just the same as any other cattle and from time to time he has made annual sales. Previous sales had netted him a nice profit over and above the original purchase price and this dispersion sale almost cleared him $10,000. There was an excellent attendance from all parts of Iowa, Minnesota and Tennessee, so that buyers came from different sections of the country. The cattle had not been specially fitted for the sale, but they were in good fair breeding condition, and many had calves at foot. The decided attraction of the sale was the splendid Blackbird bull, Black Ensign, that stood at the head of this herd. After spirited bidding between Mr. Thompson, Minnesota, Mr. Hurdle, Mississippi, he was finally knocked down to P. J. Donohoe, Holbrook, Iowa, at $575. He is an outstanding good bull, is a splendid breeder and is a son of the great Black Woodlawn. In the capable hands of Pat Donohoe he has every right to become one of the most noted breeding bulls in the West. There was a very active demand for young bulls and they all brought good money. The sale was all that could be desired and was encouraging to Angus breeders and the result was very pleasing to Mr. Horswell. Col. Silas Igo cried the sale and handled it in good shape and was assited by Col. Foshier in the ring. Below we list everything selling for $100 and better:

BULLS.

Black Ensign, calved 1908; P. J. Donohoe, Holbrook, Iowa	$575
Black Belt, calved 1912; C. R. Silcox, Dunnell, Minn	200
Black Sox of Oakworth, calved 1912; H. J. Hazer, Zwingle, Iowa	135
Kingdom Pride of Oakworth, calved 1912; L. W. McCurdy, Rowan, Iowa	135
Proud Angus of Oakworth, calved 1912; Julius Bork, Germania, Iowa	100
Presto of Oakworth, calved 1912; Carl Leo, Huntington, Iowa	160
Emulator of Oakworth, calved 1912; J. O. Thompson, Dunnell, Minn	200
Palmister of Oakworth, calved 1912; Mike Wiese, Manson, Iowa	200
Imperial of Oakworth, calved 1912; Frank Lampe, Palmer, Iowa	105
Bull calf, J. H. Jensen, Sherbourne, Minn.	160
Bull calf, John Blogg, Estherville, Iowa	170

COWS.

Black Beauty of Oakworth, calved 1908; Geo. Brasted, Grundy Center, Iowa	255
Bridesmaid of Oakworth, calved 1908; C. M. Martin, Adaza, Iowa	130
Beauty of Oakworth, calved 1912; J. H. Compton, Ringsted, Iowa	120
Blackbird Lassie of Oakworth, calved 1910; W. H. Hurdle, Holly Springs, Miss.	120
Blackbird of Alla 4th, calved 1908; W. H. Hurdle	175
Blackbird of Cherokee 7th, calved 1902; H. A. Horswell, Estherville, Iowa	135
Barramore of Oakworth, calved 1911; Peter Hendrickson, Ringsted, Iowa	130
Black Lassie of Clover Land, calved 1905; B. C. Dove, Waverly, Iowa	180
Dolly Ito, calved 1906; George Breasted	245
Rose Croix Blackbird, calved 1905; Chas. Escher & Son, Botna, Iowa	195
Peeress of Oakworth, calved 1912; T. Nordstrom, Aurelia, Iowa	115
Estella Blackbird, calved 1903; W. H. Hurdle	115
Blackbird Maid 11th, calved 1909; W. H. Hurdle	155
Blackbird P, calved 1902; E. Kingsley	100
Priscilla of Inverness, calved 1907; Escher & Ryan, Irwin, Iowa	195
Pride of Bardrill 3d, calved 1907; H. A. Horswell	155
Pure Pride of Aberdeen 2d, calved 1905; H. A. Horswell	150
Peony Pride of Oakworth, calved 1912; E. Kingsley	120
Key of Danville 2d, calved 1908; H. A. Horswell	170
Pride of Aberdeen 76th, calved 1903; Will Dunlap, Jefferson, Iowa	155
Prepasses, calved 1911; Fred Smith, Washburn, Iowa	100
Pride Pansy, calved 1910; H. A. Horswell	125
Pride of Spencer 11th, calved 1907; Kurtz & Son, Moville, Iowa	210
Pride of Spencer 15th, calved 1908; H. A. Horswell	140
Pride of Prestor 18th, calved 1908; J. H. Thompson	160
Glenmore Erica 2d, calved 1908; J. H. Thompson	280
Elatress, calved 1910; P. J. Donohoe	135
Ensign's Erica of Oakworth, calved 1911; P. J. Donohoe	190
Eloise of Oakworth, calved 1910; Will Dunlap	120
Eolian of Oakworth, calved 1912; E. Kingsley	100
Eulina 15th, calved 1901; L. T. Peterson, Grettinger, Iowa	140
Enchantress, 11th, calved 1910; Escher & Ryan	100
Brookside Queen Ito, calved 1908; B. C. Dove	195
Ito's Queen of Oakworth, calved 1911; Fred Smith, Washburn, Iowa	140
Quinton of Oakworth, calved 1912; H. A. Horswell	260
Queen Mother, calved 1908; J. H. Thompson	185
Queen of Spencer 2d, calved 1906; W. H. Hurdle	105
Queen Quair of Oakworth, calved 1912; H. C. Meyer, Blue Earth, Minn.	100
Queen of Spencer 5th, calved 1908; Daniel Driscoll, Holbrook, Iowa	105
Lady Frame of Oakworth, calved 1908; Joe Hertbrunson, Estherville, Iowa	180
Black Fawn of Oakworth, calved 1909; Will Dunlap	100
Inverness Bessie, calved 1899; Wesley Robb, Estherville, Iowa.	160
Highland Lass of Oakworth, calved 1912; J. H. Thompson	100

SUMMARY.

11 bulls	$2,140; average	$195
53 females	7,365; average	138
64 cattle	9,505; average	148

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Ogden, Iowa, Sept. 26, 1913.

Homestead Co.,

Des Moines, Iowa.

Dear Sirs:---The Iowa Homestead has proven to be my best advertising medium. I will be with you again next season.

Yours respectfully,

A M Van Steenberge

The Handley Duroc Sale.

A good fair crowd attended the E. E. Handley sale at Carroll, Iowa, October 3d, and he disposed of the offering at an average of $35.18. The top was a February boar, No. 22 of the catalog and he topped the sale at $81. No. 29, another good spring boar, went to E. E. Broeck, Avoca, Iowa, at $72, and John Meyers got a good pig in No. 30 at $51. Col. N. G. Kraschel cried the sale in his usual able manner. We list those selling for $25 and above as follows:

2.	B. A. Samuelson, Kiron, Iowa	$40
3.	E. J. Rodgers, Carroll, Iowa	51
4.	John Meyers, Carroll, Iowa	26
5.	W. W. Treglove, Carroll, Iowa	31
5¼.	John Meyers	40
5½.	B. A. Hamilton, Glidden, Iowa	45
6.	H. F. Van Glan, Breda, Iowa	56
7.	W. W. Treglove	27
8.	E. J. Rogers	29
9.	John James, Dedham, Iowa	25
11.	W. A. Kirschbourn, Defiance, Iowa	31
13.	Will Maneman, Breda, Iowa	25
16.	Henry Egan, Carroll, Iowa	30
17.	J. P. Finley, Harlan, Iowa	47
18.	Will Spiker, Carroll, Iowa	25
22.	W. S. Handley, Carroll, Iowa	81
25.	C. E. Ranworth, Glidden, Iowa	27
26.	W. A. Kirschbourn	27
29.	E. E. Broeck, Avoca, Iowa	72
30.	John Meyers	51
31.	Joe Stoll, Harlan, Iowa	56
32.	Peter Nohr, Carroll, Iowa	25
34.	Theo. Schmitz, Carroll, Iowa	28
35.	Peter Nohr	30

Waltemeyer Bros.' Duroc Sale.

The sale of Duroc Jerseys held by Waltemeyer Bros., Melbourne, Iowa, September 30th, affords material for an important chapter in the history of the breed. We do not remember of an exclusive sale of boars of this breed making such a high average at public auction. High Model, the 1908 Iowa champion, and first in class at Iowa and Nebraska, 1913, sold to W. N. Shanks at $730. High Model is one of the good individuals of the breed and at this conservative price is sure to make good in his new home. Golden Model 31st sold for $700 to Herman Tell, Nebraska. This boar has demonstrated his ability as a sire and much good stock may be expected from the herd in which he goes. Golden Model 34th, a Nebraska champion in 1913, sold for $410 to R. G. McDuff, which is a conservative price for a boar with his show-yard reputation. A spring pig that was substituted for No. 6 topped the spring pig offering, going to A. Olsen, Nebraska. M. S. Pratt, Iowa, secured an excellent pig in No. 8, at $137.50. Hanks & Bishop, and J. C. Droz secured an excellent prospect for next year's shows in No. 7 at $125. This sale is an excellent example of what perserverence and energy combined with good judgment will do in the way of building up a good herd of pure-bred swine and at the same time make handsome profits. Col. N. G. Kraschel did an excellent job of auctioneering assisted by Cols. H. S. Allen and W. N. Putnam. A list of the sales is appended:

High Model, W. M. Shanks, Worthington, Minn.	$730.00
Golden Model 31st, Herman Tell, West Point, Neb.	700.00
Golden Model 34th, R. G. McDuff, Monroe, Iowa	410.00
Tormentor, Will Thompson, Jesup, Iowa	77.50
Golden Model 35th, A. Dearinger, Reasoner, Iowa	135.00
6. A. Olson, Newman Grove, Neb.	205.00
7. Hanks & Bishop, New London, Iowa, and J. C. Droz, Fairfield, Iowa	125.00
8. M. S. Pratt, Frederika, Iowa	187.00
9. Fred Swan, Missouri Valley, Iowa	167.50
10. Wm. Sells, Indianola, Iowa	100.00
11. Swan & Ellis, Indianola, Iowa	100.00
12. J. H. Berry & Son, Iowa City, Iowa	67.50
13. John Krebs, Riverside, Iowa	92.50
14. S. S. Templeton, Monroe, Iowa	62.50
15. August Hager, Avoca, Iowa	60.00
16. Earl Moats, Missouri Valley, Iowa	42.50
17. John Bain, Aurora, Neb.	142.50
18. Geo. White, Dallas Center, Iowa	62.50
19. Albright & Son, Smith Center, Neb.	55.00
20. E. L. Busch, Tecumseh, Neb.	45.00
21. W. B. Little, Janesville, Wis.	30.00
22. Joe Sedden, Persia, Iowa	80.00
23. E. L. Busch, Syracuse, Neb.	107.50
26. Hummel Bros., Newton, Iowa	62.50
27. J. J. Fitzgerald, Colo, Iowa	62.50
29. B. F. Hersey, Parkersburg, Iowa	62.50
30. Flynn Bros., Reinbeck, Iowa	45.00
31. J. R. Walker, Parkersburg, Iowa	47.00
32. M. Kraft, Van Horn, Iowa	40.00
33. Joe Waltemeyer, Melbourne, Iowa	37.50
37. H. H. Diers, St. Olaf, Iowa	137.50
34 head	$4,365; average $128

Rickey's Duroc Sale.

On September 29th W. C. Rickey & Son, Thornburg, Iowa, held their first annual sale of Duroc Jerseys. A farm sale in that vicinity was one reason of their not being a very large crowd in attendance. Something unusual was the selling of eleven gilts from one litter to one man at an average of $22. The buyer was J. T. Sheperd, of Keswick, Iowa. He also bought a good boar to use on these gilts and it will surely make him a nice foundation for a herd. Chas. Miller, of South English, topped the sale in No. 12 at $31. The offering was in nice condition and should have brought more money, but the average of nearly $25 per head made it a paying proposition for Mr. Rickey and he will continue the breeding of Duroc Jerseys and make an effort to keep on improving his herd. N. G. Kraschel and C. C. Evans sold the offering. In all thirty-seven head were sold.

Hitch Up With Hansen

You can—easily. This Dan Patch keeps your hand free and safe from hurt, yet, with lining and without, never hinders a movement of your fingers. Flexible and strong, it seems built exactly to suit *your hand.*

Hansen's Gloves

are made of the best leathers the world affords—selected for softness and strength. In 500 styles for every hand at every work. Washable and lasting.

The Hansen line includes gloves for rough work and light chores. Special Thresherman's Gauntlet—gloves for autoist, cyclist, sportsman, etc. There are gloves for women's and boys' wear—all with the double economy of long wear and *hand-insurance.*

Send for booklet and buying information. If there is not a Hansen dealer in your town we will send a pair *on approval*—money back if not satisfactory. Address—

O. C. Hansen Mfg. Co.
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Hansen's Glad Hand
This is of highest quality buckskin, strong and soft. The Farmer's Standby from every point of economy and service.

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Expert automobile mechanics get $100 to $150 a month, demonstrators and salesmen more. Good jobs are going begging—there are not enough experienced men to fill them—because the automobile industry is growing faster than men can be trained. Equip yourself for a good salary as expert mechanic or for entering the automobile business for yourself. Ours is the largest and best equipped auto school in the west, the only school in Nebraska with its large building devoted entirely to automobile training. Complete machine shops, all accessories, many makes of autos. Individual experience in large touring cars. Write for booklet.

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ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address
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The Missouri 1913 State Fair

WEATHER which was apparently "made to order," thousands of happy and good-natured Missourians from all parts of the state, and Missouri's best from field, barnyard and home upon exhibition, combined to make the state fair at Sedalia last week an exposition that will long be remembered and referred to as "the great fair of 1913." It has been thirteen years since Missouri officially decided to have a fair of its own. Marvelous as has been its growth in that time when compared with the fairs of other states which have been half a century in the making, the visitor always leaves with the feeling that so great are Missouri's resources that her fair, already ranking with the best of any state, will continue to grow greater still for years to come.

Before the visitor had fairly passed through the entrance to the fair grounds this year, he realized that he was attending a fair that was unlike any other he had ever seen, a fair run solely and absolutely for the benefit of the man who paid his admission fee at the gate and not for the man with the money-making concession. Stretching before him were all the magnificent buildings and effectively arranged fair grounds, in no corner or spot of which could be found a single objectionable or unclean feature. There was not a sideshow of any sort in evidence. The shrieking dancing-girl and the fat woman, relics of the county fair days, but still retained by many state fairs, were conspicuous by their absence this year. It was a clean fair, and probably approached nearer the ideal, in this respect, than any state fair ever held. There were no fakes nor fakers. Even the peanut and ice cream boys in the grandstands were forced to sell their wares at reasonable prices, a fact which was announced and loudly cheered by the thousands assembled each day at the races. This cleanliness has been due to the determined effort and eternal vigilance of Col. W. A. Dallmeyer, president of the fair board, and Secretary John T. Stinson. Both these men, together with the board, who back them, are deserving of the combined thanks of every citizen of Missouri who appreciates cleanliness and the square deal. The efforts of the board were well expressed by Colonel Dallmeyer when one day last week he remarked, "We have constantly worked for a better and cleaner fair of a higher class. The effort has been made to eliminate every feature that was in any way undesirable and every exhibit that was mediocre in quality." How well this effort has succeeded was evidenced in the appreciative comments which one heard throughout the entire week.

The exhibition of the various breeds and classes of live stock, which is the mainspring of any state fair, was an unusually good one. The offering of a $2,900 saddle stake brought out the best light horses ever seen in either Missouri or Kentucky, for the best of both states were there. The interest was unusually keen, for Missourians certainly do have a high regard for a good horse, and whether one watched the saddle and light harness rings, stood up and shouted at the flying "ponies" as they skimmed past the grandstand and around the mile track or watched the dignified drafters swing their mighty bulk as they displayed their action in the live stock pavilion, he was constantly confronted with the horse superior. The light horses were at their best, the climax of the show being reached Friday, when, after some beautiful exhibitions of lightness, swiftness and gracefulness of the five-gaited saddler, Hazel Dawn, a Kentucky mare owned by Matlock and Shropshire, Winchester, Ky., was awarded the ribbon, the big money in the $2,900 saddle stake. My Major Dare, a Kansas City horse, won second, while Astral King, owned by Houchin and Anderson, of Jefferson City, suffered his first great defeat and went third. The fourth place was won by Lady Macey, another Kentucky horse. It was a great show, a show such as one could only see when nineteen of the world's greatest saddlers come together.

While the word quality is greatly overworked, especially when any mention is made of a live stock show, it is the only word that adequately describes the exhibition of draft horses and beef cattle. Never was there more quality seen in the Short-horn, Hereford and Angus classes of breeding cattle. Especially strong was the showing in the younger classes of these breeds, a fact which gives great promise of future cattle shows. Missouri-bred Percherons and the best which the importer could find abroad, gave the serious-minded horseman ample opportunity to study types, and filled the energetic man with the desire to emulate. The hog show was very much the same as that seen in former years. That it was appreciably better is quite possible, but it would be exaggeration to say that it was strikingly so. Many Missouri swine breeders, and some of the best ones, too, stay away from the fair and have done so for years because of the old cholera scares of a decade ago. Others have never formed the fair-going habit and will not be induced to take the road until larger purses and better inducements in the way of larger cash prizes and futurity stakes with special premiums for Missouri-bred animals are offered. Now that the fair board has raised the purse upon saddle horses to a point where, being the highest in the world, it would be unreasonable to raise it higher, it is to be hoped that the next raise in money, if one is made, will be in the hog, sheep and cattle classes. More attention must be paid the breeding animals. They are the bread-and-butter part upon which largely rests the prosperity of the state as well as that of the fair, and fine as were these classes this year, a little more attention in the way of heavier purses, more ribbons, extending at least to the sixth place, an announcer and bulletin board in the judging pavilion for the benefit of the visitor who has no catalog, with more music continuous throughout the day, will do much to improve the live stock show. Almost every person who visits the fair is interested to a greater or less degree in the breeding stock. This interest may be greatly increased with just a little effort along these lines or greatly decreased with lack of attention to the small details. Most exhibitors have learned that they cannot afford to show stock at the fair unless they derive a reasonable amount of publicity therefrom, yet there are still a few who allow their cattle to remain in their stalls throughout the entire week with no banner or placard to indicate the name of the animal or that of his owner. Fortunately, the number who neglect these details is decreasing every year.

Had a visitor of former Missouri fairs just returned from a year's stay abroad he would not have been aware that the agricultural and horticultural exhibits had come from fields which had for several weeks this season been regarded as "dry." The corn was, in quality and size, up to former years, though as is always the case with corn gathered so early, much of it was not as mature as the part of the crop which will be shown later in the season. Especially fine were the county exhibits. Greene county led with a splendid showing of grains, grasses, fruits, vegetables, and home-canned products, collected during the past season. Henry county won second ribbon and had a display selected with extremely good taste and regarded by many as being the most complete in the agricultural building. The exhibit made by Marion, awarded third prize, was by far the most artistically arranged and thoroughly prepared of any ever seen at Sedalia, but missed the blue ribbon because of the smallness of the number of entries of the various grains and grasses. As a model of a good county exhibit, however, it will be an excellent example by which other counties might profitably be guided. The apples were surprisingly good and for the first time it was possible this year for the tired person, made apple-hungry at sight of the beautiful fruit displayed, five on a plate and covered with a blue ribbon, to satisfy that immediate hunger by buying all he could eat at a reasonable price from one of the exhibitors. Needless to say this man did a "land office" business and the line of apple munchers extended almost around the agricultural building. The prize for the best 100 ears of yellow corn was awarded to B. M. Yates, of Auxvasse, Mo. For best white corn in the same class the award went to B. M. Drace, of Keytesville, while Yates with his yellow also won the sweepstake ribbon. The best ten ears of white corn

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HARDING'S GRAND CHAMPION SHORT-HORN BULL, VILLAGE DENMARK.

HARRIS' JUNIOR CHAMPION HEIFER, MISS REPEATER.

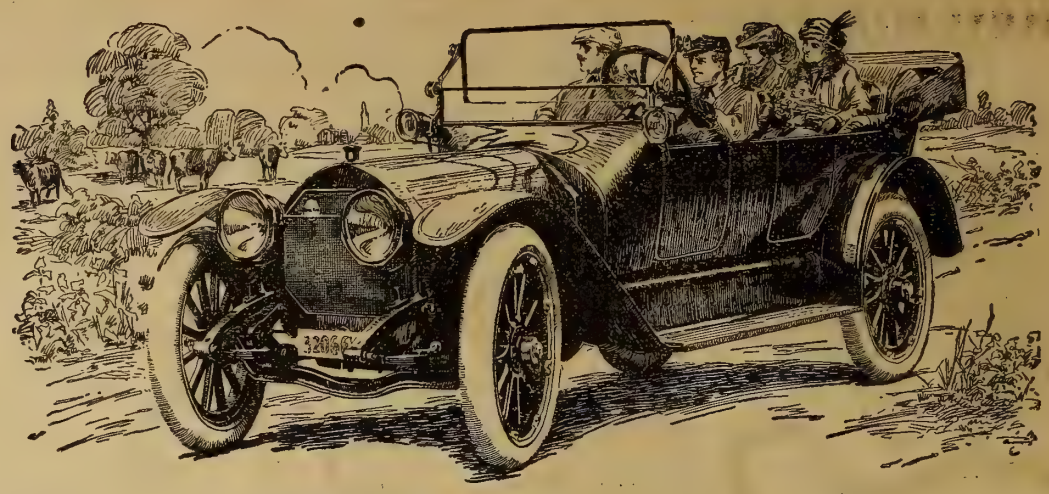
was shown by W. L Powell, of Palmyra. H. H. Taylor, of Sedalia, exhibited the best single ear. L. G. McMullen, of La Monte, had the best white ear.

There were only about twenty acres of machinery exhibited, but most of this was under cover in the three large machinery buildings where there are the best accommodations for displaying agricultural implements to be seen on any fair grounds in the country. Mammoth tractors apparently capable of moving almost anything to which they might be hitched, small engines intended for household use, including small engine and power washers which might be purchased for less than $60 and forever rob the farm woman's wash day of its terrors, and all grades and sizes of engines in between, were popping and chugging away at a rate which caused the visitor to quicken his step and begin planning new improvements for the farm—next year when that good crop comes along. Besides these, gasoline engines and the new models of kerosene-burning engines, there were all kinds of plows from the small walking twelve-inch plow to the big six-gang sixteen-inch plow, one enterprising implement company even having all the dozen or gradations between the two. Clover hullers, well-drilling machines, traction ditchers, manure spreaders, littler carriers and automobiles, supplied the progressive visitor with ideas, enabled him to make profitable comparisons, and incidentally showed the demands and needs of the modern Missourian who follows the farming profession.

The University Building and the handsome exhibits which it contained, each filled with the very cream of the experimental work of the state's greatest institution, was alone well worth the price of a trip to the fair. The needs of various Missouri soils, what they contain and what should be added to them, were here made so plain that any man at all interested in the building up of his farm could not have helped being benefited. Another university exhibit which attracted much well-deserved attention was the one made by the department of dairy husbandry. The proper way to build a comfortable and sanitary cowstall at the least expense was there shown, not with a bulletin, but with the stall itself. The difference which a little feed will make in the contents of the milk pail was demonstrated very clearly. The one-gallon cow usually receives a feed which consists of approximately eight pounds of corn on the cob; ten pounds of corn fodder without the ear corn and all the timothy hay which she will eat. This same cow, if she is of a good milking strain and properly fed, four pounds of corn; two pounds of bran; one pound of oil meal; ten pounds of alfalfa and thirty pounds of silage per day, will just about double the amount of milk, a fact which should be more widely appreciated. The difference between good and bad eggs was another one of the many striking features to be seen in the university building. Fresh eggs and all the grades of good, bad and indifferent down to "rots and spots" were to be seen just as they appear to the candler. After seeing such a demonstration, and such a simple one which even a tiny tot could understand, it became quite evident that there was little excuse why so many bad eggs should be marketed at a loss to the producer. Near the university building was the poultry show, which was much lighter this year than formerly, due, no doubt, partially to the dry weather. Some of the classes of fowls were of excellent quality, and all the important varieties were well represented. T. E. Quisenberry, of the State Poultry Experiment Station, at Mountain Grove, was there with his striking exhibit from the station, which included model poultry houses designed to meet the needs of the man with a few hens or the one with several hundred.

The domestic science and art exhibits were such as are seldom seen even at a great state fair. There was an especially good art exhibit in the Woman's Building, and in the Liberal Arts Building there was a good display of needlework, although it apparently was smaller than those shown on former years. One visitor remarked that possibly the reason for this was that the women were too busy this year making slit skirts, to devote their time to fancy designs. The canning exhibits were very numerous, no small amount of interest being taken in the girls' canning contest. Many Missouri schools were represented with the work of the pupils, which showed much careful preparation and hard, thorough work.

It seems impossible to talk about a Missouri State Fair without closing with a few words about Secretary Stinson. How much of the success of this great fair is due to this one man only those who have watched its growth since he first took charge, fully realize. Efficient, capable, thoroughly trained to the various requirements of a fair secretary, he fills the bill in a manner which is extremely comforting to the man who has had the opportunity of observing various secretaries in different states. The saddle-horse stake given this year, and the nation-wide attention which it has attracted, are due to his originality and initiative. He had handled the horsemen, who are usually a cantankerous bunch, so well that they were all singing his praises and stepping around under his direction in an admirable manner. Colonel Hughes, the veteran Kentucky horseman of national repute, says that Stinson has organized the greatest horse show he has seen in a lifetime, a strong admission to come from a Kentuckian. Without any flubdub or gush it seems but just and fitting to say that Stinson is the man for the job and that it is greatly to be hoped that he will continue to serve Missouri in this capacity for years to come.



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THE BREEDING BEEF CATTLE.

On every side one heard stockmen talking at Sedalia last week about the excellence of the cattle show. Men as well as herds, who had during the season been upon the big fair circuits seemed to be at their best. The classes of all breeds were well filled. Some of the most striking features were the long lines of entries in the younger classes. N. H. Gentry, superintendent of the beef cattle department, had good cause to be well satisfied with the excellence of this important section of the show. "The beef cattle show is up to the standard set in former years," he remarked, "and it is as good if not the best which we have ever had here at Sedalia." Many other prominent breeders were of the same opinion. There were 218 cattle exhibited in the beef classes.

SHORT-HORNS.

One of the best Short-horn shows ever seen at the Missouri State Fair was presented to the visitors at Sedalia last week. Sixty-five animals shown by eight exhibitors made up the exhibition. All classes were well filled and keenly contested to the last place. There were no tail-enders and each presented such quality and uniformity as to give Judge J. G. Tomson, of Wakarusa, Kan., plenty of work in coming to his final decisions. One of the surprises of the season was uncovered when Monarch's Victoria, the junior yearling heifer of Purdy Bros., this season making her first showing, was declared the grand champion female of the show. This promising young animal, it must be remembered, achieved this distinction over the champions of some four or five state fairs held previous to the one at Missouri, and in competition with ten entries from the best herds from five states. Village Flower 2d, the heifer with which Anoka Farms won the championhsip at the Iowa State Fair, stood fifth in this class. Mr. Abram Renick, president of the American Short-horn Association, one of the visitors at the fair this week, remarked that this was not only an unusually fine showing of Short-horns, but that the ring of young herds was the best he had ever seen.

Exhibitors: N. H. Gentry, Sedalia, Mo.; Purdy Bros., Harris, Mo.; Anoka Farms, Waukesha, Wis.; The Farmer Farm, Farmington, Minn.; H. Rees & Sons, Pilger, Neb.; E. M. Hall, Carthage, Mo.; W. W. Brown, Amenia, N. D.; Owen Kane, Wisner, Neb. The awards:

Bull 3 Years and Over (3 shown)—1st Anoka Farms on Village Denmark; 2d Rees on Whiterose Dale; 3d The Farmer Farm on Daybreaker.

Bull 2 Years and Under 3 (3 shown)—1st Anoka Farms on Gloster Fashion; 2d Hall on Princely Sultan; 3d Brown on Village Sultan.

Senior Yearling Bull (2 shown)—1st Purdy on Orange Goods; 2d The Farmer Farm on Cornerstone.

Junior Yearling Bull (3 shown)—1st Kane on Radium; 2d and 3d Gentry & Son on Grand Master and unnamed animal.

Senior Bull Calf (9 shown)—1st Kane on Royal Dale; 2d Hall on Village Flash; 3d Anoka Farms on Royal Silver; 4th Rees on Sultan's Goods; 5th Brown on Lochinvar; 6th Purdy on Grand Goods.

Junior Bull Calf (7 shown)—1st Kane on Dale Clarion; 2d Rees on

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Radium Goods; 3d The Farmer Farm on Lancaster Duke; 4th Purdy on Cumberland Victor; 5th Hall on Hallwood Count.

Cow 3 Years or Over (3 shown)—Brown's Mabelle Marshall ruled out because not in milk. 1st Rees on Lady Cumberland; 2d Brown on Irene Avalon.

Heifer 2 Years and Under 3 (6 shown)—1st Anoka Farms on Maxwalton Missie 2d; 2d Rees on June Goods; 3d Hall on Hallwood Emma; 4th Brown on Cristobel; 5th and 6th The Farmer Farm on Pleasant Mildred and Evening Star.

Senior Yearling Heifer (6 shown)—1st and 3d The Farmer Farm on Sittyton Anna and Maria; 2d Purdy on Countess Victoria; 4th Anoka Farm on Duchess of Gloster; 5th and 6th Hall.

Junior Yearling Heifer (10 shown)—1st Purdy on Monarch's Victoria; 2d The Farmer Farm on Lancaster Duchess; 3d and 4th Kane on Isabella 7th and Betty Dale; 5th Anoka Farm on Village Flower 65th; 6th Rees.

Senior Heifer Calf (7 shown)—1st Kane on Sweet Afton 3d; 2d Anoka Farm on Augusta 112th; 3d Rees on Blooming Violet; 4th Purdy on Lovely Goods; 5th The Farmer Farm on Village Blythesome; 6th Hall.

Junior Heifer Calf (6 shown)—1st Purdy on Pauline Goods; 2d Kane on Wellington Goldie 2d; 3d Brown on Laurel; 4th Anoka Farm on Fond Fannie; 5th Rees on Robert's Lady.

Senior and Grand Champion Bull—Anoka Farm on Village Denmark.

Junior Champion Bull—Kane on Radium.

Senior Champion Cow—Anoka Farm on Maxwalton Missie.

Junior and Grand Champion Cow—Purdy on Monarch's Victoria.

Aged Herd (5 shown)—1st Anoka Farm; 2d Rees & Son; 3d The Farmer Farm; 4th Brown; 5th Hall.

Young Herd (6 shown)—1st Kane; 2d Purdy; 3d Rees; 4th Anoka Farm; 5th The Farmer Farm; 6th Hall.

Calf Herd (6 shown)—1st Kane; 2d Purdy; 3d Rees; 4th Anoka Farm; 5th Hall; 6th Brown.

Get of Sire (5 groups shown)—1st Kane; 2d Anoka Farm; 3d Rees; 4th Purdy; 5th The Farmer Farm.

Produce of Cow (5 shown)—1st Purdy; 2d The Farmer Farm; 3d Rees; 4th Anoka Farm; 5th Brown.

HEREFORDS.

A larger number of animals were entered in the Hereford show than in the classes of any other beef breed on exhibition at Sedalia. Sixty-six head were shown by seven exhibitors. The phenomenally successful record made by O. Harris' herd throughout this and past seasons was continued. Two of the grand championship ribbons and two junior championships were again taken by Mr. Harris. The deservedly famous herd of Warren D. McCray, Kentland, Ind., made the splendid showing which was to be expected of it, winning the senior championship on both cow and bull. All classes were well filled with animals that were of more than average excellence. The best herds of five states were there, each of them containing representatives which at other state fairs this year have repeatedly gone to the top. Mr. Edw. J. Taylor, of Fremont, Mich., made the judicial decisions.

Exhibitors: Overton Harris, Harris, Mo.; Cyrus A. Tow, Norway, Iowa; Warren T. McCray, Kentland, Ind.; W. H. Curtice, Eminence, Ky.; W. A. Dallmeyer, Jefferson City, Mo.; T. J. Wadsworth & Son, Monroe City, Mo. The awards:

Bull, 3 Years and Over (3 shown)—1st McCray on Corrector Fairfax; 2d Harris on Prince Perfection; 3d Tow on Byron Fairfax.

Bull 2 Years and Under 3 (3 shown)—1st and 2d McCray on Beau Fairfax and Protector Fairfax; 3d Curtice on Beau Perfection 15th.

Senior Yearling Bull (4 shown)—1st and 3d Harris on Repeater 7th and Gay Lad 9th; 2d Curtice on Beau Perfection 24th.

Junior Yearling Bull (7 shown)—1st and 3d Tow on Fairview Prince and Standard 6th; 2d Harris on Gay Lad 12th; 4th Dallmeyer on Premier Donald; 5th Wadsworth on Woodrow Wilson.

Senior Bull Calf (10 shown)—1st McCray on King Fairfax; 2d Harris on Gad Lad 15th; 3d Tow on Distinction 2d; 4th Curtice on Beau Perfection 25th; 5th McCray on Letham Fairfax; 6th Dallmeyer on Beau Dare.

Junior Bull Calf (6 shown)—1st McCray on Superior Fairfax; 2d Curtice on Beau Perfection 27th; 3d and 4th Tow on Disturber Junior and Distinction 4th; 5th Dallmeyer on Prince Dare; 6th Harris on Gay Lad 23d.

Cow 3 Years and Over (4 shown)—1st and 3d McCray on Perfection Lass and Nora Fairfax; 2d Harris on Disturber's Lassie 4th; 4th Tow on Miss Brae.

Heifer 2 Years and Under 3 (7 shown)—1st Tow on Defender's Lassie 2d; 2d and 4th McCray on Virginia Fairfax and Celandine 2d; 3d Harris on Harris' Princess 215; 5th and 6th Curtice on Belle Perfection 19th and Belle Perfection 17th.

Senior Yearling Heifer (6 shown)—1st and 2d McCray on Pearl Donald and Joan Fairfax; 3d Dallmeyer on Grace Premier; 4th Tow on Disturber's Lassie 6th; 5th Harris on Miss Gay Lad 7th; 6th Curtice on Belle Donald 182d.

Junior Yearling Heifer (6 shown)—1st Harris on Miss Repeater II; 2d and 4th Tow on Disturber's Lassie 7th and Disturber's Lassie 8th; 3d McCray on Gertrude Fairfax; 5th Dallmeyer on Dorothy Dimple; 6th Curtice on Belle Donald 191st.

Senior Heifer Calf (7 shown)—1st and 3d Harris on Miss Gay Lad 15th and Miss Gay Lad 16th; 2d Curtice on Belle Perfection 23d; 4th and 5th Tow on Lady Standard and Disturber's Lassie 9th; 6th McCray on Margaret Fairfax; 7th Dallmeyer on Twinkle.

Senior Champion Bull—McCray on Beau Fairfax.

Junior and Grand Champion Bull—Harris on Repeater 7th.

Senior Champion Cow—McCray on Perfection Lass.

Junior and Grand Champion Female—Harris on Miss Repeater II.

Aged Herd (4 shown)—1st and 3d McCray; 2d Harris; 4th Tow.

Young Herd (5 shown)—1st Harris, 2d Tow; 3d McCray, 4th Dallmeyer, 5th Curtice.

Calf Herd (5 shown)—1st Harris, 2d Tow; 3d McCray; 4th Curtice; 5th Dallmeyer.

Get of Sire (6 groups shown)—1st and 5th McCray; 2d Harris; 3d Tow; 4th Curtice; 6th Dallmeyer.

Produce of Cow (5 groups shown)—1st Harris; 2d McCray; 3d and 4th Curtice; 5th Tow; 6th McCray.

ABERDEEN ANGUS.

An even fifty head of doddies entered by four exhibitors combined to make one of the prettiest and "classiest" showings of Angus cattle ever seen at Sedalia. Every class was well filled and every entry was meritorious, according to W. W. Andrews, Maryville, who made the decisions. Several times had these herds met before this season and at Sedalia in a number of instances surprises were sprung.

Exhibitors: R. M. Anderson & Sons, Newell, Iowa; Omer Catterson & Son, Maryville, Mo.; E. F. & C. D. Caldwell, Burlington Junction, Mo; W. A. McHenry, Denison, Iowa. The awards:

Bull 3 Years and Over—(2 shown)—1st McHenry on Erwin C.; 2d Catterson on Queen's Quality Lad.

Bull 2 Years and Under 3 (3 shown)—1st Catterson on Queen's Ito Lad; 2d Caldwell on Kiahoga; 3d Anderson on Enus 3d.

Senior Yearling Bull (4 shown)—1st Caldwell on Ebony of A.; 2d Anderson on Provo 2d; 3d McHenry on Quality Prince 2d; 4th Catterson on Edward Ito.

Junior Yearling Bull (4 shown)—1st Caldwell on Quarter Master Ito; 2d Catterson on Blackbird Beverly; 3d and 4th Anderson on Enus 4th and Prince of Elchies.

Senior Bull Calf (6 shown)—1st Anderson on Prince of Elchies; 2d Caldwell on Blackcap Star; 3d McHenry on Ebony of Denison.

Junior Bull Calf (2 shown)—1st Anderson on Lord Melarvere; 2d Catterson on Even Ito.

Cow 3 Years and Over (4 shown)—1st McHenry on Blackcap McHenry 84th; 2d Anderson on Pride of Blackstone; 3d Caldwell on Pride Petite.

Cow or Heifer 2 Years and Under 3 (6 shown)—1st McHenry on Coquette McHenry; 2d Anderson on Key of Ind. 4th; 3d Caldwell on Blackbird Chloe; 4th Catterson on Erica Dean; 5th McHenry on Pride McHenry; 6th Caldwell on Queen Mother Johnson.

Senior Yearling Heifer (5 shown)—1st McHenry on Pride McHenry 109th; 2d Catterson on Maplehurst Pride; 3d Caldwell on Ento C.; 4th McHenry on Pride McHenry 108th; 5th Caldwell on Esthonia 6th.

Junior Yearling Heifer (5 shown)—1st Catterson on Queen of Maplehurst 25th; 2d McHenry on Pride McHenry; 3d Anderson on Jilt 67th; 4th Caldwell on Dutchess Ronald Lady; 5th Anderson on Pride of Newell 3d.

Senior Heifer Calf (6 shown)—1st Anderson on Eulina 28th; 2d Caldwell on Eritus; 3d McHenry on Pride of McHenry 116th; 4th McHenry on Queen McHenry 58th; 5th Caldwell on Jessie Blackeyes.

Junior Heifer Calf (3 shown)—1st Catterson on Ito's Pride C.; 2d Anderson on Jilt 70th; 3d Caldwell on Pridecap Lady.

Senior and Grand Champion Bull—McHenry on Erwin C.

Junior Champion Bull—Caldwell on Ebony of A.

Senior and Grand Champion Cow—McHenry on Blackcap McHenry 88th.

Junior Champion Cow—McHenry on Pride of McHenry 109th.

Aged Herd (4 herds shown)—1st McHenry; 2d Caldwell; 3d Catterson; 4th Anderson.

Calf Herd (4 herds shown)—1st Anderson; 2d Catterson; 3d McHenry; 4th Caldwell.

Get of Sire (4 groups shown)—1st McHenry; 2d Anderson; 3d Catterson; 4th Caldwell.

Produce of Cow (5 groups shown)—1st Anderson; 2d Catterson; 3d Catterson; 4th Caldwell; 5th Anderson.

GALLOWAYS.

There were only two herds of Galloways shown and both of these were from Kansas. Between them they had twenty-five head and divided honors about evenly. The animals shown were some of the best of this breed making the show circuit and had there been just a little more competition it would have been regarded as a strong Galloway shown. H. O. Allison, of the University of Missouri, judged the long-haired breed.

Exhibitors: Capital View Ranch, Silver Lake, Kan.; S. M. Croft & Sons, Bluffs City, Kan. The awards:

Bull 3 Years and Over (2 shown)—1st Croft on Kingsley; 3d Capital View Ranch on Carnot.

Bull 2 Years and Under 3 (1 shown)—Capital View Ranch on Casino.

Senior Yearling Bull (1 shown)—Croft on Cazonet.

Junior Yearling Bull (2 shown)—Capital View Ranch on Pelotte of C. V.; 2d Croft on Prince George Jr.

Senior Bull Calf (3 shown)—1st Capital View Ranch on Ocho of C. V.; 2d Croft on Ben; 3d Capital View Ranch on Pioneer of C. V.

Junior Bull Calf (2 shown)—1st and 2d Croft on Harvard and Joe of Bluff City.

Cow 3 Years and Over (2 shown)—1st Capital View Ranch on Daisy Dimple; 2d Croft on Florence of Meadow Lawn.

EVERLY & SLOAN'S CHESTNUT TWO-YEAR-OLD MULE TEAM.

Cow or Heifer 2 Years and Under 3 (2 shown)—1st Croft on Clara of Maples 3d; 2d Capital View Ranch on Nellie Melville.

Senior Yearling Heifer (1 shown)—Croft on Ethel of Greenbush.

Junior Yearling Heifer (3 shown)—1st and 2d Croft on Ollie of Greenbush and Gretchen of Bluff City; 3d Capital View Ranch on Capital's Belle.

Senior Heifer Calf (2 shown)—1st Capital View Ranch on Sunflower Maid; 2d Croft on Violet of Bluff City.

Junior Heifer Calf (2 shown)—1st Capital View Ranch on Mayflower; 2d Croft on Floss of Bluff City.

Senior and Grand Champion Bull (2 shown)—Croft on Kingsley.

Junior Champion Bull (1 shown)—Croft on Cazonet.

Senior and Grand Champion Cow (2 shown)—Capital View Ranch on Daisy Dimple.

Junior Champion Heifer (4 shown)—Croft on Ollie of Greenbush.

Aged Herd (2 shown)—1st Croft; 2d Capital View Ranch.

Young Herd (2 shown)—1st Croft; 2d Capital View Ranch.

Calf Herd (2 shown)—1st Croft; 2d Capital View Ranch.

Get of Sire, Four Animals, Either Sex (2 shown)—1st Capital View Ranch; 2d Croft.

DAIRY CATTLE.

While there were only fifty-nine head of dairy cattle shown at the Missouri State Fair this year these were of a trueness to type and of an individual quality which was all that could be asked for. Despite this paucity of numbers the interest in dairying and the breeding of dairy cattle is rapidly increasing in the "show me" state. The dairy show was handled with a thoroughness which was highly satisfactory to both breeders and dairymen. C. T. Graves, Maitland, Mo., in his judging, laid especial stress upon production, wherever it was possible to do so, and those familiar with dairy strains were spared the sight sometimes presented of a cow heading her class on her score card perfection when she would be unable to hold her own with anything in the ring when it came to production. This is a point which it has taken several years to emphasize and the satisfaction it gives is not small. Incidentally it will do more than any one thing to promote the showing of high producers.

JERSEYS.

The little butter cows were well represented by the twenty-nine head which five exhibitors presented to the judge. J. B. Smith, Platte City, Mo., formerly of the firm of Smith & Roberts, Beatrice, Neb., secured the major portion of the first moneys. In the opinion of Judge Graves, Warden's Proud Beauty, grand champion cow, an imported animal, was the best cow he had passed upon at any fair this season.

Exhibitors: Dr. D. R. Hill, Joplin, Mo.; W. H. Powell, Sedalia, Mo.; J. B. Smith, Platte City, Mo.; Chas. Romig, Dresden, Mo.; J. B. Stewart, Sedalia, Mo. The awards:

Bull 3 Years and Over (2 shown)—1st Smith on Stockwell's Fern Lad; 2d Romig on Sedalia Champion Lad.

Bull 2 Years and Under 3 (none shown).

Bull 1 Years and Under 2 (3 shown)—1st Smith on Stockwell's Champion; 2d Smith on Warden's Oxford Lad; 3d Hill on Fox's Plymouth Lad.

Bull Calf Under 1 Year (3 shown)—1st, 2d and 3d Smith on Waterloo Boy, Warden's Butter Boy and Stockwell's Silvermine Boy.

Cow 4 Years and Over (3 shown)—1st Smith on Warden's Proud Beauty; 2d on Plymouth Springtime; 3d Fousler on Agatha's Eminent.

Cow 3 Years and Under 4 (2 shown)—1st Smith on Belmont Silvermine; 2d Fousler on Baby Fairfield.

Heifer 2 Years and Under 3 (2 shown)—1st Hill on Majestic Sweet Buttercup; 2d Smith on King's May Fountain.

Heifer 1 Year and Under 2d (3 shown)—1st and 2d Smith on Stockwell's Gem and Stockwell's Signet; 3d Hill on Fox's Plymouth Violets.

Heifer Calf Under 1 Year (3 shown)—1st Hill on Fox's Plymouth Princess; 2d and 3d Smith on Stockwell's Flute and Princess Lady.

Senior Champion Bull—Smith on Stockwell's Fern Lad.

Junior and Grand Champion Bull—Smith on Waterloo Boy.

Senior and Grand Champion Cow—Smith on Warden's Proud Beauty.

Junior Champion Cow—Smith on Stockwell's Gem.

HOLSTEIN-FRIESIAN.

Two exhibitors with twenty-one entries made up the show of big black and white milk producers. The larger number of animals was shown in the junior classes. The quality was all that might be asked throughout. All of the excellent animals shown were from out of the state, the Iowana Farms, Davenport, Iowa, and Dr. M. W. Downing, Waukesha, Wis., being the two enterprising breeders who carried off the money and ribbons. Since some of the world's finest Holsteins have been bred and produced in Missouri it is greatly to be hoped that another year will bring out some entries of the great milking breed from this state. All of the champion awards and all but one of the nine blue ribbons were carried away by the Iowana Farms.

FAT CATTLE.

The University of Missouri monopolized the fat cattle show this year, winning ten firsts, three purples and the grand championship on their steer, Secret. There were but thirty-three fat cattle shown and while this number was slightly fewer than last year's steer aggregation, it was composed of entries from nine of the best herds in the country. The university's winnings were upon Short-horn and Angus entries. Mr. Arthur Rhys, that very efficient herdsman, never had the university herd in better shape and naturally had good cause to be elated over the showing which his finely fitted animals made. W. W. Andrews, Maryville, Mo., judged the Angus; J. G. Tomson, Wakarusa, Kan., judged the Short-horns, and Edward J. Taylor, Fremont, Mich., passed upon the Herefords. These three together decided the grand championship.

Exhibitors: R. M. Anderson & Sons, Newell, Iowa; C. D. & E. F. Caldwell, Burlington Junction, Mo.; Cyrus A Tow, Norway, Iowa; O. Harris & Sons, Harris, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; E. M. Hall, Carthage, Mo.; H. Rees & Son, Pilger, Neb.; W. W. Brown, Amenia, N. D.; University of Missouri, Columbia, Mo. The awards:

SHORT-HORNS.

Steer or Spayed Heifer, 2 Years and Under 3 (1 shown)—Brown on Dick Turpin.

Steer or Spayed Heifer, Senior Yearling (1 shown)—Brown on Tommy.

Steer or Spayed Heifer, Junior Yearling (none shown).

Steer or Spayed Heifer, Senior Calf (3 shown)—1st University of Missouri on Secret; 2d Brown on Young Harry; 3d Hall on Hallwood 2d.

Steer or Spayed Heifer, Junior Calf (none shown).

Champion Group (one group shown)—Brown.

Champion Steer—University of Missouri on Secret.

Steer or Spayed Heifer, 2 Years and Under 3 (2 shown)—1st Tow on Bonnie Brae; 2d Dallmeyer on King Brummel.

Steer or Spayed Heifer, Senior Yearling (3 shown)—Tow on Standard 1st; 2d Harris on Heir at Law; 3d Dallmeyer on Sure Shot.

Steer or Spayed Heifer, Junior Yearling (none shown).

Steer or Spayed Heifer, Senior Calf (2 shown)—1st University of Missouri on Baxter; 2d Dallmeyer on Major Dare.

Champion Group (2 groups shown)—1st Tow; 2d Dallmeyer.

Champion Steer—Tow on Bonnie Brae.

ABERDEEN ANGUS.

Steer or Spayed Heifer, 2 Years and Under 3 (2 shown)—1st University of Missouri on Backward 2d; 2d Caldwell on Dr. Hendricks.

Steer or Spayed Heifer, Senior Yearling (1 shown)—University of Missouri on Lord Roberts.

Steer or Spayed Heifer, Junior Yearling (2 shown)—1st University of Missouri on Queen's Councilor; 2d Anderson on Riverdale Perfection.

Steer or Spayed Heifer, Senior Calf (1 shown)—University of Missouri on Prince of View Point 10th.

Champion Group (1 group shown)—University of Missouri.

Champion Steer (3 shown)—University of Missouri on Blackwell 2d.

GRADES AND CROSSBREDS.

Steer or Spayed Heifer, 2 Years and Under 3 (1 shown)—Tow on Denver.

Steer or Spayed Heifer, Senior Yearling (none shown).

Steer or Spayed Heifer, Junior Yearling (3 shown)—1st Tow on At Last; 2d Rees on Straight Goods; 3d Hall on Billy.

Grand Champion Steer—University of Missouri on Secret.

THE HORSE SHOW.

The number of heavy horses shown at Sedalia this year was not impressive, as there were only sixty entries, but it is very doubtful if Missouri ever witnessed a better horse show at a state fair. There was much quality in evidence and what is best, most of this was Missouri quality, as the majority of the horses shown were bred in Missouri or imported by Missouri men. Of the fourteen exhibitors only three were from neighboring states. The Percherons made up four-fifths of the show, while the Clyde and Belgian breeds were represented by a few choice animals. As there was only one exhibitor of Clydes and three showing Belgians the heavy horse show was mostly Percheron. "This year's horse show is in many respects as good as any ever seen at a Missouri State Fair," said E. A. Trowbridge, superintendent of the heavy horse show. "The prevalence and good showing of Missouri bred drafters," he continued, "clearly shows that the draft horse has come to stay in this state. What is better still, it indicates an increase in numbers and a stronger show next year." The opinion of Mr. Trowbridge was held by other prominent horsemen who were closely following the horse show. Dean C. F. Curtiss, Iowa College of Agriculture, placed all of the draft classes.

PERCHERONS.

While the Percherons are always leaders at a state fair, never at Sedalia have they so completely dominated the heavy horse classes as this year. Kirk was there with a number of his imported beauties and Roelofson, McCulley and others who are striving to improve Missouri draft horses in other ways besides talking about them, were there with specimens of their own breeding. Joel, the Percheron Horse

Get Your Canadian Home From the Canadian Pacific

WE will make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will *make you independent.*

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Rich Canadian land for from $11 to $30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

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The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle sheep and hogs up to the value of $1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

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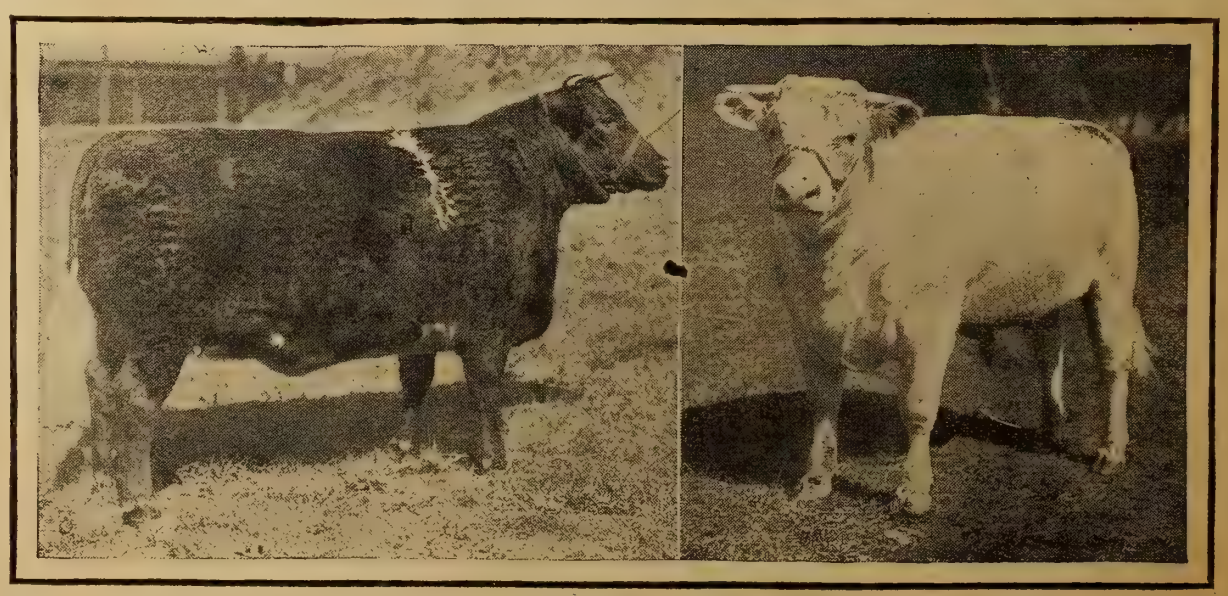
FOR SALE—Town lots in all growing towns—Ask for information concerning openings.



PURDY BROS.' GRAND CHAMPION SHORT-HORN HEIFER, VICTORIA'S MONARCH.

OWEN KANE'S JUNIOR CHAMPION YEARLING SHORT-HORN BULL, RADIUM.

Importing Company's stallion, which last year won the blue as a three year old, was brought out this year by Mr. Kirk as an aged stallion, and as such he succeeded in beating Helix, Brown & Walker's big black, that won the International grand championship ribbon in 1910. This was the second time this season the two horses had met and many horsemen are of the belief that Joel is destined to keep on climbing during the rest of the season. He is a magnificent fellow with much more weight and size than last year, but still retaining much of the bloom and snap of the youngster, features which undoubtedly are much in his favor when shown against show-ring veterans as Helix. The forty-two Percherons shown were the entries of ten different exhibitors, only two of whom were from outside the state. This alone would have made it an inspiring show even had the quality, everywhere so much in evidence, been lacking.

Exhibitors: P. G. McCulley, Princeton, Mo.; N. S. Cox & Sons, Pattonsburg, Mo.; M. D. Alcorn, Sedalia, Mo.; O. C. Davis, Saline, Mo.; Percheron Importing Company, South St. Joseph, Mo.; Brown & Walker, Clarinda, Iowa; J. F. Roelofson, Maryville, Mo.; J. H. Smith, Sedalia, Mo.; J. A. Howell, Paris, Mo.; D. B. Koger, Pattonsburg, Mo.; Lee Bros., Harveyville, Kan. The awards:

Stallion 4 Years and Over (3 shown)—1st Percheron Importing Company on Joel; 2d Brown & Walker on Helix; 3d Percheron Importing Company on Insolent.

Stallion 3 Years and Under 4 (2 shown)—1st and 2d Percheron Importing Company on Kazo and Karillon.

Stallion 2 Years and Under 3 (5 shown)—1st Lee on Reinhard; 2d and 4th Percheron Importing Company on Logosite and Legionaire; 3d Roelofson on Dynamo; 5th Alcorn on Ronflant 2d.

Mare 4 Years and Over (5 shown)—1st and 3d McCulley on Gaite and Grive; 2d Lee on Beattie; 4th Alcorn on Kate Ross; 5th Davis on Dora.

Mare 3 Years and Under 4 (4 shown)—1st and 2d Lee on Flora and Marcellene; 3d Cox on Paris Lady; 4th Davis on Loretta.

Mare 2 Years and Under 3 (5 shown)—1st and 3d Lee on Lucile and Delia; 2d Cox on Lady Coliberte; 4th Davis on Ioalatha; 5th Koger on Lady Alice.

Group 5 Stallions (2 groups shown)—1st Percheron Importing Company; 2d Lee.

Group 3 Mares (4 groups shown)—1st and 3d Lee; 2d McCulley; 4th Davis.

Group Stallion and 4 Mares (2 groups shown)—1st and 2d Lee.

Get of Sire (1 group shown)—Lee.

Produce of Mare (4 groups shown)—Lee on Moraine.

Champion Stallion (3 shown)—Percheron Importing Company on Joel.

Reserve Stallion—Lee on Reinhard.

Champion Mare (3 shown)—McCulley on Gaite.

Reserve Mare—Lee on Flora.

MISSOURI-BRED CLASSES.

Stallion 2 Years and Over (2 shown)—1st Roelofson on Dynamo; 2d Alcorn on Ronflant 2d.

Stallion 1 Year and Under 2 (2 shown)—1st Roelofson on Tableau; 2d Davis on Gamin Jr.

Mare 2 Years and Over (5 shown)—1st and 2d Cox on Lady Colibert and Paris Lady; 3d Davis on Iolatha; 4th Koger on Lady Alice; 5th Alcorn on Kate Ross.

Mare 1 Year and Under 2 (2 shown)—1st and 2d McCulley on Dorothy and Fanny.

Foal Either Sex Under 1 Year (3 shown)—1st McCulley on Wonder; 2d Alcorn on Brilliant; 3d Davis on Jim Ornisby.

Mare and Foal (1 shown)—Alcorn on Kate Ross and foal.

Produce of Mare (3 groups shown)—1st Davis; 2d McCulley; 3d Alcorn.

Champion Stallion—Roelofson on Tableau.

Champion Mare—Cox on Lady Colibert.

PERCHERON SPECIALS.

Stallion Under 3 Years Bred and Owned by Exhibitor (4 shown)—1st Roelofson on Tableau; 2d Lee on Moraine; 3d Roelofson on Dynamo; 4th McCulley on Wonder.

Five Stallions Owned by Exhibitor (2 shown)—1st Percheron Importing Company; 2d Lee.

Mare 3 Years and Over Bred by Exhibitor (2 shown)—1st Lee on Marcellene; 2d Cox on Paris Lady.

Mare Under 3 Years Bred by Exhibitor (3 shown)—1st and 2d Lee on Madeline and Monita.

Champion Stallion (3 shown)—Percheron Importing Company on Joel.

Reserve Stallion—Lee on Reinhard.

Champion Stallion Bred by Exhibitor—Roelofson.

Champion Mare Bred by Exhibitor—Lee.

Tire Prices Down

Now the Costliest Tires—No-Rim-Cut Tires Cost You No More Than Others

Goodyear No-Rim-Cut tires used to cost one-fifth more than other standard tires. The reasons are told below.

These tires, despite that extra cost, came to outsell any other. As our output grew the cost came down.

Now you pay no more for No-Rim-Cut tires than for any other standard tire. Yet notice what you get.

Rim-Cutting Ended

You save in these tires all the ruin of rim-cutting. And that's an enormous item.

We had public accountants lately gather statistics. They examined thousands of ruined clincher tires—the old-type hooked-base tires. And they found that 31.8 per cent had been discarded for rim-cutting only.

That's almost one in three.

No-Rim-Cut tires, made by a costly method which we control, end that loss completely. That we guarantee.

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We give these tires the "On-Air Cure." That is, they are final-vulcanized on air bags shaped like inner tubes.

That's to save wrinkling the fabric.

All other tires are vulcanized on iron cores alone. The fabric often buckles. And that buckled fabric leads to countless blow-outs.

This "On-Air Cure," which we alone employ, adds to our tire cost $1,500 per day.

Save Loose Treads

We use another costly method to prevent tread separation. The rights to it cost us $50,000.

Millions of dollars have been lost to tire users through the loosening of the treads. No other tire in the world employs the effective method we use to combat it.

Yet No Extra Price

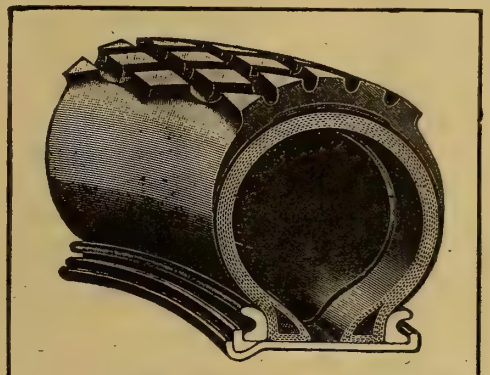
You get all these savings in No-Rim-Cut tires. All these features used by no one else. Yet no other standard tire today costs less than No-Rim-Cut tires.

The reasons are mammoth output, new factories, new equipment. In one item alone—in overhead cost—we have saved 24 per cent.

Another reason is that we keep our profits within 8½ per cent.

Judge for yourself if tires lacking these features are worth the Goodyear price.

Our dealers are everywhere.



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Dealers everywhere. Branches and agencies in 103 principal cities.
Write us on anything you want in rubber.

Get of Stallion (1 shown)—Lee.

Produce of Mare (2 shown)—1st Lee; 2d McCulley.

Stallion and 4 Mares (1 group shown)—Lee.

Five Stallions (2 groups shown)—1st Percheron Importing Company; 2d Lee.

CLYDESDALES.

While F. L. Crosby, Mexico, Mo., was the only exhibitor of Clydes he had nine head of beautiful animals that deserved some competition in order to prove their excellence, already so plainly evident. Mr. Crosby was awarded all the ribbons in the classes in which he showed, and it was universally agreed that his entries not only deserved them, but would have held their own in any company.

BELGIANS.

There were but three exhibitors of Belgians and only seven head entered. C. L. Henman, Halls, Mo., won first in the aged class and champion ribbons with his stallion, Fiston. Joseph M. Nolan, Paola, Kan., and J. A. Winebrenner, Tipton, Mo., were the other exhibitors.

There were no Shires exhibited. One German Coach entry completed the heavy horse show.

JACKS.

Naturally the jack show at Missouri this year was all that a show representing a state such as Missouri, already the leading mule state in the Union, should be. As everyone knows the superiority of the Missouri mule is largely due to the greatness of his sires. Some number of jacks were exhibited by a number of exhibitors. L. Monsees, of Smithton, was not showing this year, a fact that was commented upon by practically all of the jack men. Col. Monsees' absence as an exhibitor was more than made up by his presence in the ring as a judge.

Exhibitors: Louis Knoop, Cole Camp, Mo.; W. S. & G. V. Sneed, Sedalia, Mo.; Diereling & Otto, Queen City, Mo.; J. A. Winebrenner, Tipton, Mo.; Bradley Bros., Warrensburg, Mo.; J. W. Givens, Fayette, Mo.; Frank Barkley, Blairstown, Mo. The awards:

Jack 4 Years or Over (5 shown)—1st, Sneed on Limestone Henry; 2d Diereling & Otto on London; 3d Knoop on Squire Harris; 4th Diereling & Otto on Grand I Am.

Jack 3 Years and Under 4 (3 shown)—1st Diereling & Otto on Missouri

GRAND CHAMPION GALLOWAY COW, OWNED BY CAPITAL VIEW RANCH.

M'HENRY'S GRAND CHAMPION ANGUS COW, BLACKCAP.

Giant; 2d and 3d Bradley Bros. on Joe Knox and Bradley's Jumbo.

Jack 2 Years and Under 3 (10 shown)—1st Givens on Longfellow; 2d and 3d Dierling & Otto on Demonstrator and Dierling's Lightning.

Jack 1 Year and Under 2 (5 shown)—1st Bradley on Aristocrat; 2d and 3d Diereling & Otto on Eastern Star and Missouri Senator

Jack Under 1 Year (1 shown)—Diereling & Otto on unnamed foal.

Jennet 3 Years and Over (5 shown)—1st Barkley on Missouri Queen; 2d Knoop on Queen Victoria.

Jennet 2 Years and Under 3 (none shown).

Jennet 1 Year and Under 2 (1 shown)—Barkley on Anneboelyn.

Champion Jennet—Barkley on Missouri Queen.

Champion Jack—Givens on Longfellow.

MULES.

As was to be expected, the mule show was an exceptionally good one, the various classes being filled with numerous entries of mules such as only Missouri farms can produce. J. W. Warren, Paris, Mo., was judge. Probably the most attractive show of mules was that of the two year olds.

Exhibitors: Midge Marshall, Renick, Mo.; D. H. Hutchison, California, Mo.; Mose Holloway, Clarksburg, Mo.; Snider Bros., Lowry City, Mo.; Carl Shrader, Paris, Mo.; W. R. Hall, Warsaw, Mo.; J. R. English, Windsor, Mo.; T. J. Burris, Prairie Home, Mo.; Everly & Sloan, Coffey, Mo.; Ira Sharp, Sharpsburg, Ill.; C. J. Irvine, Marshall, Mo. The awards:

Mule 4 Years or Over (11 shown)—1st and 2d Sharp; 3d Hutchison.

Mule 3 Years and Under 4 (4 shown)—1st and 3d Sharp; 2d Marshall.

Mule 2 Years and Under 3 (8 shown)—1st Snyder Bros.; 2d and 3d Sharp.

Mule 1 Year and Under 2 (11 shown)—1st Everly & Sloan; 2d Snider Bros.; 3d Sharp.

Colt Under 1 Year (8 shown)—1st and 3d Snider Bros.; 2d Irvin.

Grand Champion Mule—Sharp on Queen.

Pair Shown to Wagon—1st Sharp; 2d Marshall.

Pair Mules Over 4 Years—1st Sharp; 2d Hutchison; 3d Shrader.

Herd of 5 Mules—1st Sharp; 2d Everly & Sloan; 3d Snider Bros.

THE SWINE SHOW.

Compared with former years the swine show at Sedalia was a very successful one, there being on exhibition a total of 433 head. In numbers the Duroc Jerseys took the lead, closely followed by the Poland Chinas, with Chester Whites standing third, there being on the grounds practically as many white hogs as Berkshires and Hampshires combined. Not only were the above breeds well represented, but the quality was up to standard and there was much comment on the improvement on the character of exhibits. The mule foots and the Yorkshires were light in numbers. Owing to season and epidemics of previous years, this year's swine show was lighter than it would otherwise have been, but it was up to former years and considered by all hogmen to have been an all-around good show.

POLAND CHINAS.

Twelve exhibitors. all Missourians, came together with the pick of their breeding pens and with 118 head made up the Poland show. The usual quality maintained by this breed was in evidence. There was also the usual variation of type such as has characterized every Missouri swine show held within recent years.

The aged boar showing was very light, as only two came before Judge Lloyd Mugg, Kokomo, Ind. These two animals differed radically in type, one being of the kind styled medium, the other of decidedly the big-type strain. Baker's King Hadley won the decision, Baker also won the first in the senior yearling class with King John. Porter's Golden E. L., the second-prize winner, showed a world of type and quality, but was smaller when compared with the first-prize boar. There were a goodly number of junior yearlings presented, but the same wide variation as to type was in evidence. H. T. Hall won first on Orator, a boar with excellent width, depth and remarkable quality. A blocky, compact animal of medium type of good quality shown by J. R. Young, came next. The Hall boar, however, showed considerably more stretch than did his closest competitor. Perhaps the best class shown was that composed of pigs under twelve months. At least it excelled in numbers and quality. An unnamed boar by Golden Harvest won this class and while he was of the medium type he showed good scale even though lacking considerably in condition. Apparently he won on his stretch, quality and smoothness, despite lack of fat.

In the aged sow class Hadley's Beauty 2d, another big-type animal, went to the top because of her remarkable smoothness and quality combined with such great scale. The medium type again came up when Burks won first and second in the junior yearlings, with two sows carrying an abundance of type, quality and finish. Ten entries made up the senior female pig class and again the judge showed his preference for size where quality was also to be had. The winner of the junior pig class was one of the good individuals of the show, a fact later emphasized by her winning the junior championship.

Exhibitors: Dr. John Gildow & Sons, Jamesport, Mo.; S. Y. Burks, Bolivar, Mo.; G. M. Curnutt, Montserrat, Mo.; W. A. Baker, Butler, Mo.; G. M. Hoadley, Sedalia, Mo.; W. F. Wheaton, Dresden, Mo.; L. C. Buford & Sons, Monticello, Mo.; H. T. Hall, Kirksville, Mo.; Thomas McKone, Monticello, Mo.; M. D. Porter, Vandalia, Mo.; Joe Young, Richards, Mo.; W. Z. Baker, Rich Hill, Mo. The awards:

Boar 24 Months and Over (2 shown)—1st W. Z. Baker on King Hadley; 2d Hoadley on Lavender Chief.

Boar 18 Months and Under 24 (3 shown)—1st W. Z. Baker on King John; 2d Porter on Golden E. L.; 3d Gildow on Pawnee's Equal.

Boar 12 Months and Under 18 (6 shown)—1st Hall on Orator; 2d Young on Star of the West; 3d Burks on Stylish Perfection.

Boar 6 Months and Under 12 (11 shown)—1st Porter on unnamed boar by Golden Harvest; 2d Gildow on Masterpiece; 3d Burks on Broadway.

Boar Under 6 Months (12 shown)—1st Porter on unnamed boar by Golden Glory; 2d Baker on Big Blain; 3d Hoadley on unnamed.

Sow 24 Months and Over (5 shown)—1st W. Z. Baker on Hadley's Beauty 2d; 2d Burks on Topsy; 3d Hoadley on Ideal.

Sow 18 Months and Under 24 (2 shown)—1st and 2d Gildow on Mammoth Girl and Mammoth Maid.

Sow 12 Months and Under 18 (4 shown)—1st and 2d Burks on Trixie and Nixie; 3d Gildow on May Expansion.

Sow 6 Months and Under 12 (10 shown)—1st W. Z. Baker on Rosebud Hadley; 2d Hoadley on High Mark; 3d Wheaton on Maid of Honor.

Sow Under 6 Months (17 shown)—1st McKone on unnamed pig by Prince of Durham; 2d Hoadley on unnamed; 3. W. Z. Baker on Bessie Blain.

Senior and Grand Champion Boar 12 Months and Over—Hall on Orator.

Junior Champion Boar—Porter on unnamed boar by Golden Harvest.

Senior and Grand Champion Sow 12 Months and Over—W. Z. Baker on Hadley's Beauty 2d.

Junior Champion Sow—McKone on unnamed gilt by Prince of Durham.

Boar and 3 Sows Over 12 Months (3 shown)—1st W. Z. Baker; 2d Burks.

Boar and 3 Sows Over 12 Months, Bred by Exhibitor (3 shown)—1st Burks; 2d Gildow.

Boar and 3 Sows Under 12 Months (8 shown)—1st McKone; 2d Hoadley.

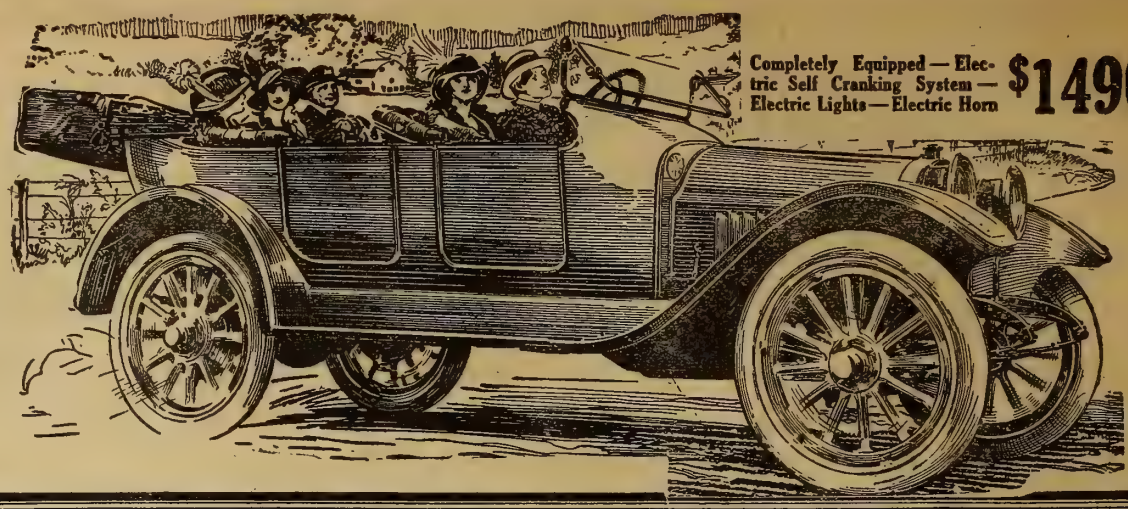
Boar and 3 Sows Under 12 Months Bred by Exhibitor (8 shown)—1st McKone; 2d Hoadley.

Get of Boar (9 shown)—1st W. Z. Baker on get of King Hadley; 2d Porter on get of Golden Harvest.

Produce of Sow (6 shown)—1st W. Z. Baker on produce of Big Beauty 6th; 2d McKone on produce of Black Beauty.

DUROC JERSEYS.

There were more Durocs shown at Sedalia this year than of any other breed of swine. The 112 head exhibited were the property of eleven exhibitors. Only one of these elven was from without the state. Most of the entries showed the usual quality and the gathering of the reds was regarded by the hogmen as being an exceptionally good one. The bulk of the ribbons went to Charles L. Taylor, B. W. Harned, McFarland Bros. and W. R. Crow. In placing the three aged boars, Judge Geo. W. Trone, Rushville, Ill.,



Completely Equipped—Electric Self Cranking System—Electric Lights—Electric Horn $1490

Beautiful New Auburn Now on Exhibit

Go See 1914's Startling Motor Car Value — It Is on Display Now. Each Year Some Manufacturer Brings Out the "Season's Best Buy"—a New Advancement in Value Giving. He Sets the Pace by Producing a New Value-Standard. Buyers Who Overlook the Year's Value-Sensation Do Not Get All That Their Money Can Purchase. So Do Not Buy Any Automobile Without First Inspecting This.

FOR NOW we present 1914's new standard of motor car value—a large, beautiful, superbly finished automobile of 120-inch wheel base. It has all the roominess of high priced cars. It is *fully* equipped with every comfort, convenience, and feature motorists can want.

Is not this 1914's biggest surprise in values?

Observe This Striking Beauty

NOTE in this new car, the handsome sweep of the "stream" lines. Note how they slope from the radiator to the back of the car. See the graceful sweep of the cowl, how it rakishly slants from the hood to the base of the windshield. Please observe also how the flush sides and broad back of the car emphasize its general distinctiveness.

Left Drive Center Control

IN town left hand drive gives the convenience of alighting directly onto the curb. It is unnecessary to face oncoming cars in stepping into the street when alighting.

Center control with the levers out of the way is another 1914 Auburn feature.

Electrically Self-Cranking Electric Lighted

AT no extra cost the new Auburn "40" is electrically self-cranked; it is electric lighted. It is also equipped with an electric horn. Our electric self-cranking system *spins* the motor. That ends a motor car fault, that of revolving the motor too slowly to secure combustion.

Note some of the other costly features we include in this big car:

Rain Vision Ventilating Windshield
36x4 Tires; Demountable Rims
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Wide Doors (with Concealed Hinges) as on 1914 European Cars
Dustproof En Bloc T Head Motor
Extra Roomy Tonneau — 29 Inches Foot Room
Tire Irons with Extra Demountable Rim.

This is the Auburn Automobile Company's 14th successful year manufacturing automobiles. We have never created an unsuccessful model.

Now On Exhibit

GO see these two cars at our dealers' show rooms. The visit will show you the startling motor car value of 1914. Then gauge all cars you are considering by this new standard of value.

Models: "40"—5-passenger, $1490; 6-passenger, $1590; "45"—(6-cylinder) 5-passenger, $2000; 6-passenger, $2100 (all fully equipped).

And right now write for the full story of this wonderful value. Just say: "Send the new folder."

Auburn Automobile Co., Auburn, Ind.

(18)

had little trouble deciding upon Taylor's Col. Wonder. Select Col. II showed more length, but was lacking in width and depth and in condition. There was also little difference of opinion in the senior yearling class where Chief of Colonels, owned by C. C. Boyd, was the conceded winner. It looked more like a show in the junior yearling class of boars, the tie finally made going to Whiskey and Faith, the largest boar in the bunch. Some surprises were unearthed in the aged sow class where a vote of the ringside would have probably put the first sow third, for while she was a sow of great scale and excellent at both ends, she was lacking in spring of ribs and very bad in her feet. This same opinion would also have placed second a sow left entirely out of the money. The same discrepancy was commented upon in the junior yearling class where two of the best sows were left out of the money entirely. The surprises continued to the end, the question even arising as to whether or not the gilt winning first in the under-six-months class had any right to even be in the money.

Exhibitors: McFarland Bros., Sedalia, Mo.; C. C. Boyd, Centralia, Mo.; R. R. Sellers, Pleasant Hill, Mo.; B. W. Harned, Beaman, Mo.; Chas. W. Finley, Otterville, Mo.; W. R. Crow, Hutchinson, Kan.; L. C. Burford, Monticello, Mo.; Chas. L. Taylor, Olean, Mo.; L. M. Fish, Bolivar, Mo.; B. H. Emison, Napton, Mo.; J. L. Taylor, Olean, Mo. The awards:

Boar 24 Months and Over (3 shown)—1st Taylor on Col Wonder; 2d Boyd on Select Col. II; 3d Crow on W. R.'s Wonder.

Boar 18 Months and Under 24 (3 shown)—1st Boyd on Chief of Col.; 2d Crow on Crow's Model; 3d Emison on Second Heirloom.

Boar 12 Months and Under 18 (4 shown)—1st Taylor on Whiskey and Faith; 2d Harned on Proud Wonder; 3d Crow on Champion Crow; 4th Sellers on Red Tom.

Boar 6 Months and Under 12 (2 shown)—1st Harned on Major Dare; 2d Taylor on Firestone.

Boar Under 6 Months (10 shown)—1st McFarland on unnamed sired by Climax A.; 2d and 3d Taylor on Col. Wonder II and full brother unnamed.

Sow 24 Months and Over (6 shown)—1st Finley on Dotie Queen; 2d Taylor on Miss Crimson Wonder; 3d Crow on Ideal Queen.

Sow 18 Months and Under 24 (2 shown)—1st Taylor on Lady Flotilla; 2d Crow on Bessie Crow.

Sow 12 Months and Under 18 (3 shown)—1st and 2d Crow on Katherine and H. M. Crow; 3d Taylor on Belle of Chiefs.

Sow 6 Months and Under 12 (11 shown)—1st Harned on Lady Dare; 2d Taylor on unnamed sired by Col. Wonder; 3d Harned on unnamed by Guiding Star.

Sow Under 6 Months (6 shown)—1st Crow on Belle Wonder; 2d Taylor on Belle of Missouri; 3d McFarland on unnamed.

Champion Boar Over 12 Months—Taylor on Col. Wonder.

Champion Boar Under 12 Months—Harned on Major Dare.

Grand Champion Boar—Taylor on Col. Wonder.

Champion Sow Over 12 Months—Finley on Dottie Queen.

Champion Sow Under 12 Months—Harned on Lady Dare.

Grand Champion Sow—Finley on Dotie Queen.

Boar and 3 Sows Over 12 Months (2 shown)—1st Taylor; 2d Crow.

Boar and 3 Sows Over 12 Months Bred by Exhibitor (1 shown)—Crow.

Boar and 3 Sows Under 12 Months (4 shown)—1st Harned; 2d Taylor.

Boar and 3 Sows Under 12 Months Bred by Exhibitor (2 shown)—1st Harned; 2d Taylor.

Produce of Sow (4 shown)—1st Harned on produce of Lady Searchlight; 2d on produce of Belle of Cols.

Get of Boar (4 shown)—1st Harned on get of Guiding Star; 2d Taylor on get of Col. Wonder.

AMERICAN ASSOCIATION SPECIALS.

Young Herd Bred by Exhibitor (2 shown)—1st Harned; 2d Taylor.

Young Herd Bred by Exhibitor (3 shown)—1st Harned; 2d Taylor.

NATIONAL ASSOCIATION SPECIALS FOR MISSOURI BREEDERS.

Herd Any Age (3 shown)—1st Taylor; 2d Harned; 3d McFarland.

CHESTER WHITES.

Four exhibitors with a total number of eighty-six head made up the Chester White aggregation. Most of the classes were well filled and the uniformity of the exhibit was a notable feature. In the main the decisions of Judge Trone were very satisfactory. The bulk of the ribbons were taken away by Kent and Buxton. However, a remarkable showing was made by Nunnelly, whose custom it is to show only in the under-six-months class and in these classes most of the ribbons, including both the junior champions and the young herd, went to his entries.

Boar 24 Months and Over (5 shown)—1st Buxton on Contractor; 2d and 3d Kent on Kent's Promotor and Combination I. X. L. 1st.

Boar 18 Months and Under 24 (1 shown)—Buxton on Buxton's Jim.

Boar 12 Months and Under 18 (3 shown)—1st Kent on Iowa Prince; 2d Buxton on Contractor Jr.; 3d Waltmire on Raymore Prince.

Boar 6 Months and Under 12 (7 shown)—1st Kent on Iowa King 2d; 2 Buxton on Wilson; 3d Nunnelly on Callaway Combination.

Boar Under 6 Months (10 shown)—1st and 2d Nunnelly on unnamed pigs sired by Hulligan; 3d Buxton on unnamed sired by Contractor.

Sow 24 Months and Over (5 shown)—1st and 2d Kent on Kent's Kind and Iowa Delight; 3d Waltmire on Callaway Pet.

Sow 18 Months and Under 24 (2 shown)—1st Buxton on Buxton's Jim; 2d Kent on Iowa Favorite.

Sow 12 Months and Under 18 (7 shown)—1st and 3d Kent on Kent's Beauty and Iowa Bond; 2d Buxton.

Sow 6 Months and Under 12 (8 shown)—1st, 2d and 3d Kent on Iowa Pearl, Iowa Gem and Iowa Ruby.

Sow Under 6 Months (9 shown)—1st, 2d and 3d Nunnelly on unnamed pigs sired by Hulligan.

Champion Boar 12 Months and Over—Buxton on Contractor.

Champion Boar Under 12 Months—Nunnelly on unnamed pig sired by Hulligan.

Grand Champion Boar—Buxton on Contractor.

Champion Sow 12 Months and Over—Kent on Kent's Kind.

Champion Sow Under 12 Months—Nunnelly on pig sired by Hulligan.

Grand Champion Sow—Kent on Kent's Kind.

Boar and 3 Sows Over 12 Months (4 shown)—1st Kent; 2d Buxton.

Boar and 3 Sows Over 12 Months Bred by Exhibitor (4 shown)—1st Kent; 2d Buxton.

Boar and 3 Sows Under 12 Months (3 shown)—1st Nunnelly; 2d Kent.

Boar and 3 Sows Under 12 Months Bred by Exhibitor (3 shown)—1st Nunnelly; 2d Kent.

Produce of Sow (3 shown)—1st Kent on produce of Gustafson's Choice; 2d Nunnelly on produce of Daisy.

Get of Boar (4 shown)—1st Kent on get of Iowa Protection; 2d Kent on get of Ned.

NATIONAL O. I. C. CHESTER WHITE SPECIAL.

Boar 6 Months and Under 12—Nunnelly.

Sow 6 Months and Under 12—Waltmire.

Boar Under 6 Months—Nunnelly.

Sow Under 6 Months—Nunnelly.

BERKSHIRES.

A light showing was made in the Berkshire classes, there being scarcely any competition on many of them. Four exhibitors with forty-one entries made up the show. The most interest was created by the entry of Gentry & Son in the six months and under twelve months' class of boars. The scale, smoothness and quality of this animal easily made him winner in this class and held him at the top for both the junior and grand championship ribbons. More competition was evidenced in the sow classes, the most noticeable being in the sow class under twelve months. In the senior champion class Ravenwood Duchess 121st won over an under-fitted senior yearling sow, showing remarkable length combined with quality and smoothness. There was no sow in the ring which excelled the daughter of Baron Duke 125th. Ravenwood Duchess 121st won the grand championship handily by her greater length and smoother showing when compared with her junior rival.

Exhibitors: S. Y. Burks, Bolivar, Mo.; N. H. Gentry & Son, Sedalia, Mo.; Ralph Creighton, Creighton, Mo.; Iowana Farms, Davenport, Iowa. The awards:

Boar 24 Months and Over (1 shown)—Iowana Farms on Baron Premier 102d.

Boar 18 Months and Under 24 (1 shown)—Creighton on Berry's Choice Jr.

Boar 12 Months and Under 18 (1 shown)—Iowana Farms on Iowana Baron 3d.

Boar 6 Months and Under 12 (3 shown)—1st Gentry on boar sired by Baron Duke 100th; 2d and 3d Iowana Farms on Iowana Majesty and Ames Rival 36th.

Boar Under 6 Months (3 shown)—1st Burks on Duke Dale; 2d and 3d Creighton on unnamed pigs sired by Berry's Choice Jr.

Sow 24 Months and Over (2 shown)—1st and 2d Iowana Farms on Ravenwood Dutchess 121st and Rival's Dutchess 23d.

Sow 18 Months and Under 24 (4 shown)—1st Gentry on sow sired by Baron Duke 125th; 2d and 3d Iowana Farms on Rookwood Laurel 14th and Rookwood Lady 52d.

Sow 12 Months and Under 18 (3 shown)—1st, 2d and 3d Iowana Farms on Rival's Jewel Dee 2d, Rival's Jewel Dee and Rival's Jewel 6th.

Sow 6 Months and Under 12 (7 shown)—1st, 2d and 3d Gentry on sows sired by Baron Duke 100th and a Royal Beauty boar.

Sow Under 6 Months (4 shown)—1st and 2d Creighton on unnamed pigs sired by Berry's Choice Jr.; 3d Burk on Duke Lady.

Senior Champion Boar—Iowana Farms on Baron Premier 102d.

Junior and Grand Champion Boar—Gentry on Boar sired by Baron Duke 100th.

Senior and Grand Champion Sow—Iowana Farms on Ravenwood Dutchess 121st.

Junior Champion Sow—Gentry on sow sired by Grand Duke 100th.

Boar and 3 Sows Over 12 Months (2 shown)—Iowana Farms 1st and 2d.

Boar and 3 Sows Over 12 Months Bred by Exhibitor (none shown).

Boar and 3 Sows Under 12 Months (3 shown)—1st Gentry; 2d Iowana Farms.

Boar and 3 Sows Under 12 Months Bred by Exhibitor (3 shown)—1st Gentry; 2d Iowana Farms.

Four Swine Produce of Same Sow (2 shown)—1st Gentry on produce of Charmer's 117th; 2d Burks on produce of Southland Superior.

Four Swine Get of Same Boar (4 shown)—1st Gentry on get of Baron Duke 100th; 2d Iowana Farms on get of Rival's Champion's Best.

Hampshires.

The rapidly increasing popularity of the Hampshire was clearly shown by the number of this breed on exhibition at Sedalia. Their total of forty-six was greater than that of the Berkshires although there were but three herds represented. Most of the classes were well filled and the competition was keen. The bulk of the top ribbons went to W. J. Brinigar & Son. The aged boar class brought out three entries. Hampshire men agreed that the two of these belonging to Brinigar & Son should have been reversed, Teddy B being the smoother and showing better type and quality with as much scale. In fact he was very similar in type to Lancaster Duke, the winner of the grand championship. No better example of the improvement of the breed within the last few years was shown than in the class of aged sows, as well as in practically all of the female classes. It would be hard to find better sows of any breed than of best females shown here. Fisher's grand champion sow showed early maturity unequaled by gilts of like age in any breed at the Missouri swine show.

Exhibitors.—W. J. Brinigar & Son, Blythedale, Mo.; G. S. Lawson, Ravenwood, Mo.; Roy E. Fisher, Winside, Neb. The awards:

Boar 2 Years and Over (3 shown)—1st and 2d, Brinigar & Son on Horace and Teddy B; 3d Fisher on Dr. Scott.

Boar 18 Months and Under 24 (3 shown)—1st and 3d Fisher on Fisher's King 4th and Danube 3d; 2d Brinigar on unnamed by Blythedale Jim.

Boar 12 Months and Under 18 (2 shown)—1st Brinigar on Lancaster Duke; 2d Fisher on Catro Messenger.

Boar 6 Months and Under 12 (3 shown)—1st and 3d Brinigar & Son on Blythedale Lad 1st and Blythedale 2d; 2d Fisher on Winside King.

Boar Under 6 Months (4 shown)—1st Lawson on Carl; 2d Brinigar & Son on Blythedale Jim; 3d Fisher on pig by Winside Star.

Sow 2 Years and Over (3 shown)—1st and 2d Brinigar & Son on Blythedale Princess and Missouri Beauty; 3d Fisher on Hamburg Beil.

Sow 18 Months and Under 24 (2 shown)—1st Brinigar & Son on Blythedale Beauty; 2d Fisher on Fisher's Queen 2d.

Sow 12 Months and Under 18 (6 shown)—1st Brinigar & Son on Miss Fancy; 2d and 3d Fisher on Fisher's Queen 4th and Fisher's Queen 3d.

Sow 6 Months and Under 12 (6 shown)—1st Fisher on Fisher's Queen 6th; 2d and 3d Brinigar & Son on gilts sired by Blythedale Lad.

Sow Under 6 Months (7 shown)—1st Brinigar & Son on unnamed sired by Blythedale Jim; 2d Lawson on Helena; 3d Fisher on son of Winside Star.

Champion Boar 1 Year and Over—Brinigar & Son on Lancaster Duke.

Champion Boar Under 1 Year—Lawson on Carl.

Champion Sow Over 1 Year—Brinigar & Son on Blythedale Princess.

Champion Sow Under 1 Year—Fisher on Fisher's Queen 6th.

Grand Champion Boar—Brinigar & Son on Lancaster Duke.

Grand Champion Sow—Brinigar & Son on Blythedale Princess.

Boar and 3 Sows Over 1 Year (2 shown)—1st Brinigar & Son; 2d Fisher.

Boar and 3 Sows Over 1 Year Bred by Exhibitor (2 shown)—1st Brinigar & Son; 2d Fisher.

Boar and 3 Sows Under 1 Year (3 shown)—1st Brinigar & Son; 2d Fisher.

Boar and 3 Sows Under 1 Year Bred by Exhibitor (3 shown)—1st Brinigar & Son; 2d Fisher.

Get of Boar (5 shown)—1st and 2d Brinigar & Son on get of Blythedale Duke 2d and Blythedale Lad.

Produce of Sow (3 shown)—1st Brinigar & Son on produce of Miss Fancy 2d; 2d Fisher on produce of Hamburg Belle.

MISSOURI HAMPSHIRE BREEDER'S SPECIAL.

Four Pigs Either Sex Under 6 Months (5 shown)—1st Lawson; 2d Brinigar & Son.

SHEEP.

The sheep show at the Missouri fair was about like that of former years. There were a total of 362 head entered. H. A. Hackecorn, of Columbia, Mo.; E. D. King, of Burlington, Kan., and J. O. Groves, judged the various classes. Sheep fanciers pronounced this show one that had come up to expectations and was in general very satisfactory.

SHROPSHIRES.

Exhibitors: J. O. Graves, Tipton, Mo.; Anoka Farms, Waukesha, Wis.; Geo. Allen & Son, Lexington, Neb.; W. S. & G. V. Sneed, Sedalia, Mo.; Geo. McKerrow & Son, Pewaukee, Wis.

Ram 2 Years or Over—1st and 3d Mckerrow & Son; 2d Anoka Farms.

Ram 1 Year and Under 2—1st Anoka Farms; 2d and 3d McKerrow & Son.

Ram Lamb Under 1 Year—1st Anoka Farms; 2d Mckerrow & Son; 3d Allen & Son.

Ewe 2 Years or Over—1st and 2d McKerrow & Son; 3d Anoka Farms.

Ewe 1 Year and Under 2—1st and 2d McKerrow & Son; 3d Anoka Farms.

Ewe Lamb Under 1 Year—1st Anoka Farms; 2d and 3d McKerrow & Son.

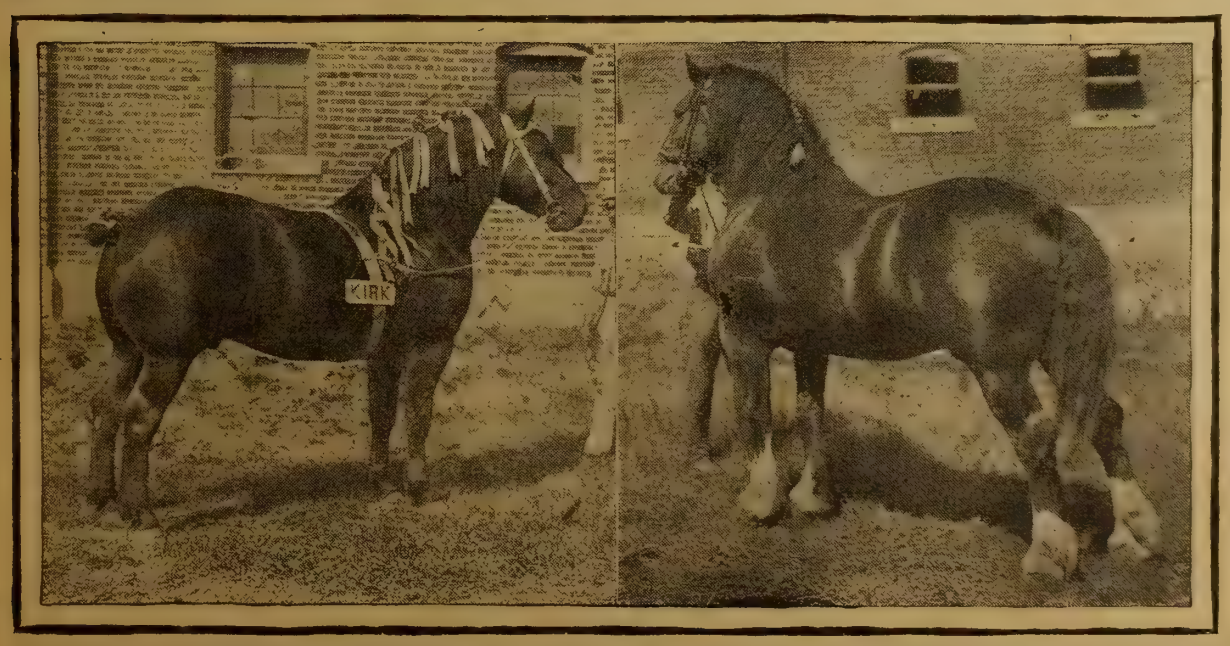
Flock—1st McKerrow & Son; 2d Anoka Farms.

Pen—1st Groves; 2d Allen & Son.

Ram Any Age—1st McKerrow & Son.

Ewe Any Age—1st McKerrow & Son.

(Continued on page 26.)



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Write for the Lanpher Book of 1913-14 styles, if you want to know more about Lanpher men's and women's clothing for outdoor wear, and where to buy them in your neighborhood.

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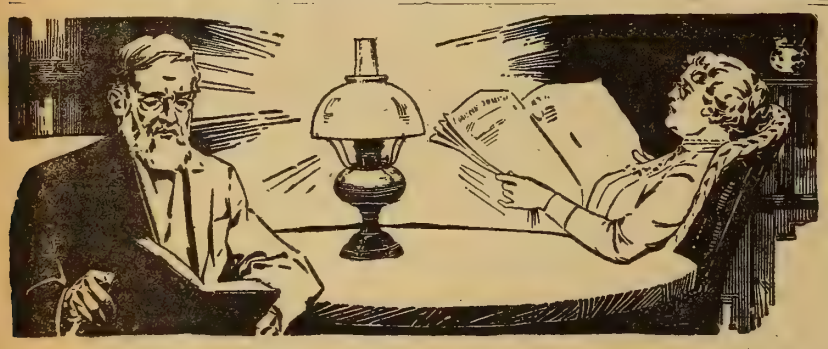
Ladies: Remember Lanpher Furs are guaranteed The Lanpher book mentioned above will guide you in the selection of becoming models. You can **see** them at your dealers' before buying.



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WITH THE EDITOR.

"Happiness was born a twin.
They who joy would win must share it."

False ideas as well as low ideals are responsible for much of the pain and woe with which we are afflicted. For instance, the world's idea about happiness is that it is something to be caught and bound, something to be raced and chased after. Perhaps, yes, undoubtedly, we have all been engaged in the "pursuit of happiness."

Perhaps even yet we have not learned, with Mytil and Tiltil in Maurice Maeterlinck's story, "The Bluebird," that while we hunt around the world, back into the past, or into the future for the wonderful bluebird, Happiness, it was not there, but so very likely to be right at home within reach of our hands, within sound of our voice!

Happiness can be lost as quickly as it was snatched—if obtained in that way. Such is but a mockery of the real kind. Others can take away that kind of happiness from the person who has clutched it. And again, the world believes that those who have the power of giving happiness to one's life may refuse to do so, and then there is a definite end to one's hope of obtaining this desired condition. Another false notion: It makes happiness such a transient affair, subject to the "stand and deliver" of every traveler we meet on life's highway.

Happiness exists, we know, for we have seen it at times and in lives where we least expected it. It was not a transient, temporary thing; it was not a passing phase as of an April day, but it was such a beautiful condition of permanency that we desired earnestly to re-engage in the search for it.

But such happiness was not attained by "pursuit." There was no idea of acquiring, of getting, in the heart of the fortunate possessor. Such a person was not a happiness-getter, but a happiness-giver, and by continual giving had come into possession of something over which circumstances had no control, no power to take away. There is no possibility of loss. Its presence lends an almost immortal serenity to its possessor.

Would we irradiate our hearts with such abiding joy? Then we must be true happiness givers, of that company who, not content with the small circle of well-loved ones, gives cheerfully to all, even to the churlish and the low-minded.

"The world would be better and brighter if people were taught the duty of being happy, as well as the happiness of doing their duty. To be happy ourselves is a most effectual contribution to the happiness of others."

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Live truly, and thy life shall be
A great and noble creed.

Life is not so short but that there is always time for courtesy.

Be gentle; the sea is held in check not by a wall of rock, but by a beach of sand.

Not what you do, but how you do it, is the test of your capacity.

Teach the small boys and girls to be little gentlemen and ladies, for the time is quickly approaching when they must make their own pathway through sunshine or shadow, and the path will be much easier traveled by kind deeds and thoughts for the aged.

KEEP THE COLOR SCHEME IN MIND.

Keep always in mind the color scheme of your wardrobe, and select everything that you get with regard to what you already have, and what you expect to buy later. Perhaps you see a brown hat that strikes your fancy. Don't purchase it unless you will have other things of brown to go with it. While black and dark blue are staple colors they are not to be recommended unqualifiedly for all wearers. Many a woman of sallow complexion makes the mistake of confining herself to black, when, in reality, black is the worst thing she can wear. The Oxford grays for service, and the lighter grays for dress wear, are very becoming to many elderly women. It is impossible to lay down rules as to what colors and shades are best for the various ages, complexions and figures. Each woman should keep within the range of what is becoming to her, leaving alone the things that may be pretty in themselves, but not adapted to her.

FOR THE COOK.

Red Pepper Relish.—Take twelve mango peppers (red, green or mixed) six good-sized onions and two roots of horseradish and chop all fine. Add two tablespoons of celery seed, two tablespoons white mustard seed, one tablespoon salt, one quart vinegar, one quart water. Cook all ten minutes, add one-fourth pound brown sugar and cook one hour.

Sour Peach Pickle.—Peel the peaches and sprinkle lightly with salt. Let them stand one hour, then wash them quickly in cold water. Place in jars and pour over good apple vinegar, with half a teacup each of spice and cloves to one gallon of pickle.

Sweet Pickle Peaches.—Peel the peaches, stick in each at intervals half dozen cloves, place in jars and pour over them boiling vinegar, sweetened with one pound of sugar to one quart of vinegar. Seal while hot.

Another Sweet Pickle.—Peel half a bushel of clingstone peaches, almost ripe. One gallon of good apple vinegar, eight pounds of sugar, half a teacup of cloves and three sticks of cinnamon. Boil the vinegar and spices together five minutes, put in the peaches and let them get hot through, remove from the fire and place in self-sealing jars, if convenient; if not, seal the jars with brown paper (three layers) and thick flour paste.

Green Tomato and Pepper Relish.—Chop fine one peck of green tomatoes, three large onions, six green peppers with the seeds removed; boil them three minutes in two quarts of weak vinegar, drain and turn into glass jars. Scald three quarts of vinegar with two cupfuls of brown sugar, one cupful of white mustard seed, one tablespoonful each of cinnamon, cloves and allspices, three tablespoonfuls of salt and one teaspoonful of celery seed. When this is boiling, pour it over the chopped ingredients and seal the jars.

AMONG OURSELVES.

"Aunt Eliza" brings us some verse entitled "If I Had But a Day." It is verse which has a message for us who are busy and anxious sometimes and sometimes tempted to be regretful if not fretful:

We should fill the hours with the sweetest things
If we had but a day;
We should drink alone at the purest springs
In our upward way;
We should love with a lifetime's love in an hour
If the hours were few;
We should rest, not for dreams, but for fresher power
To be and to do.
We should guard our wayward or wearied wills
By the clearest light;
We should keep our eyes on the heavenly hills
If they lay in sight;
We should trample the pride and the discontent
Beneath our feet;
We should take whatever a good God sent
With a trust complete.
We should waste no moment in weak regret
If the day were but one,
If what we remember and what we forget
Went out with the sun.
We should be from our clamorous selves set free
To work or to pray,
And to be what the Father would have us to be
If we had but a day.

Somewhere I once read of a life which was governed, day by day, by the thought that the day which was being lived might be the last day. It would be well for some of us to experiment along this line. The woman of whom I read found it a road to peace and happiness.

As the larger number of our circle are farm folks a tribute to the farmer and farming as an occupation will be enjoyed. It is brought to us by "Nameless:"

From the beginning, the cultivation of the earth has been honored, the Sovereign Planter chose the great ancestor of our race as a husbandman. The pursuit of agriculture has been honored by the great of all ages—princely patriarchs, kings, prophets and philosophers. The dignity of the farmer's calling is full of moral grandeur. He supports the world, is a

partner of nature and a co-worker with God. No one loses by his successes. Health attends his toils and the philosophy of nature exercises and exalts the intellect of the intelligent farmer. His moral powers are enobled by the manifestations of supreme love and wisdom in everything around him, and the season, "Almighty Father! these, as they roll are full of Thee."

The question arises, does the average farmer—if such a term be permissible—live up to his privileges? Is he a student of nature and a philosopher striving to rise above the material things of life? Is he not more often a man wrestling with all his might, either to earn a living, or to buy more land to raise more corn to feed more hogs, to buy more land, and so on? This summer I have asked myself a number of times if the farmer and the farmer's family get out of life what they might. I wish the circle members would tell me what they think about it.

Miss McCoy will talk to us about "Reading for the Family:"

One of the best things that parents can do for their children is to cultivate in them a taste for good literature. This alone is sometimes equal to a liberal education. Bright children will have something to read, and, if good books and papers are not supplied to meet their needs they will accept almost anything. This matter can not safely be allowed to take care of itself. Many men and women who justly take rank among the best informed owe more to their thorough and systematic reading than to any school or college. Interesting books are desirable for family reading on winter evenings, books that are alike interesting to old and young. Young children can be interested in novels, when read aloud, but such mental fare is not nearly so wholesome for growing children as the fairy tales of science and history. Novels are more or less love stories and they furnish a stimulus not the most desirable for unfolding childhood. Moreover, there is danger that when the mind has begun to feed upon novels, its tone will be so far impaired as to produce a morbid craving for reading of an exciting nature. It is safer to cultivate in youth an interest in useful facts about the world we live in. Fiction has its place, and a useful one, but it is so easy to take, so attractive to most minds, that it is not necessary to labor to cultivate a taste for it.

We are indebted to Miss McCoy for this admirable book talk. We pay our debt by saying, "Come again, please." Book talks are so often asked for and are such welcome offerings that I wonder we do not have more of them. Perhaps we shall, now the days are less crowded.

"Mrs. M. S." brings handy hints for the kitchen, a subject sure to cause housewives to give extra close attention:

Modern science has revolutionized the management of the culinary department in our American homes. Formerly all that pertained to the home commissary meant drudgery of a more or less arduous nature. Today, handy devices and ingenious inventions, relatively inexpensive when one considers the proportion in which they lighten the housewife's duties, render domestic work comparatively simple and decidedly attractive. Efficient washing machines, electric flat irons, gas and electric stoves and alcohol ovens are exceedingly practical, where the farm or suburban home is provided with gas or electric power. Even in the country dwelling where the local heat, light and water supply problems have been successfully solved, there are many useful hints which can be advantageously practiced by the progressive housewife. Relatively few women appreciate the necessity of efficiently caring for the eggs in the home kitchen. Many eggs that reach the kitchen in good condition are allowed to deteriorate in a warm room before the cook finds occasion to use them. Right here comes in the great value of water glass for preserving eggs. This solution of sodium silicate is not only useful in keeping eggs in good condition for short periods, but it can also be advantageously employed as a means of preserving eggs for winter use in the home; that is, by obtaining a large supply of eggs at the period of abundance when the price is low and preserving them in water glass, which is more efficient for this purpose than expensive systems of cold storage, until the supply is limited and the price inflated. Water glass as a preservative is reliable, comparatively cheap and easily prepared. It can be purchased at the average drug store for $1 to $1.25 a gallon—one gallon of water glass will make ten gallons of preserving fluid. This mixture should be made from clean water that has been boiled and allowed to cool. To every nine quarts of water add one quart of water glass, stirring thoroughly to insure a proper mixture. If properly mixed the water glass seals the eggs and with a temperature comparatively low the egg is preserved. Carefully place the eggs in a sanitary stone jar containing this fluid, examining each egg to see that it is clean and not cracked. Keep the eggs well covered with the solution by adding a small quantity of boiled water when necessary. Do not allow the sun's rays to fall directly on the receptacle containing eggs. It is economical to use water glass eggs for cooking purposes after the price of eggs have reached the original price plus the price of preserving, usually not more than two to three cents per dozen. A cellar affords the preferable place in which to store the eggs, although any darkened room whose temperature does not exceed 60 degrees will be satisfactory. The average egg soon spoils, but those treated in this manner may be preserved for ten to fourteen months and still be fit for human consumption.

With the price of eggs mounting and sure to mount still higher that water glass hint should prove decidedly valuable. I wish other of the friends would feel constrained to pass on their experiences. A circle like ours can only prosper as its members give of their stores, whatever those may be.

Next week our program will be made up of the prize-money essays on the subject of "Our Garden and Orchard—Why We Think Them Worth While."

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Aunt Mary, Hawley, Minn.

TOPICS THIS TIME.

This week we will give you a topic to write on, and the prizes will be given for the best three on the topic. We want you this time to relate some true incident of your life in connection with school. It must be true. Write on one side of your paper only, and be sure to give your complete address, as well as pen-name, if you use one. Use for the title of your letter, "That Day at School."

A Spell-down.

Some write carelessly; others do not know how to spell correctly; among them all a good many misspelled words appear in the letters of the young folks. How many of you can give the correct spelling of the following list of words, taken from your letters this week? Try it.

Write out the list correctly, sign your name, age, and address, and send it to Aunt Mary.

Did you ever play Roodles? This fine game will be sent as a prize for the neatest correct list received before November 1st. Here are the words: Augist, ant, accross, allmost, beleved, becuse, bugy, belive, befor, Chirstmas, confirts, dident, dich, dieded, horizen, heared, haveing, injoyed, layed, medcine, nineth, ninty, oclok, recieved, rember, resess, shetilan, sence, stoped, succeded, studie, thier, verey, wrohtless, whoes.

The Ideal Citizen.

(First Prize.)

An ideal citizen is a citizen that has good ideas, conservative and progressive at once. He is always satisfied with the methods of government, but as soon as he finds out that the new government is as good or better than the old, he is perfectly willing to do well in its service. His habits are good, he will not gamble, drink alcoholic drinks, smoke, play cards, or anything of that kind. If he has debts to pay he will pay them, and do what he thinks is right. When it is time to vote, he will vote, if he can get away to the polls. If he is a democrat or republican he will not vote for a person of his party who is not fit for the office nor let himself be persuaded to vote for a bad person, for a drink of beer or whisky, but will always vote for a man of good character, and one that is worthy of the position. He will not lose his temper, but has a good character, and will be loving and kind to his fellowmen, have malice and envy toward none, but charity to all, especially to his working men and his own family. He is careful of how he speaks and of whom he speaks, so that he will not hurt anybody's feelings. He will be an example to all those that are around him. He is also a man of good behavior, good sense, always respectful, and neither rude nor selfish. He will not let his manners be corrupted by evil communications or jesting and joking, but will always talk in a decent way. He is a man of exact cleanliness and neatness, having his clothes always neat and clean, without unnecessary articles to adorn himself. He only buys those things which

We Have Given Ideas for 30,000 Home Parties and Church Socials in Three Years

For girls at home who wanted to entertain their set: for young people's church societies: for ladies' aids: for women in frontier towns who wanted to entertain women who "never had a party in their lives": for women in the great cities who had run out of ideas and wanted new ones for luncheons and teas: for the minister's wife who wanted to raise money for the church—for everybody, in fact, young and old, in city and country.

And we have given ideas for these thousands of happy-time occasions without a penny's charge.

It is part of the personal service that has been building for twenty years back of *The Ladies' Home Journal*, and every subscriber or reader is entitled to the service without a penny's cost. An editor with two or three assistants does practically nothing else but travel, buy, and collect the newest ideas for all kinds of good times, and pass them on.

It is worth knowing about. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

A year's subscription to *The Ladies' Home Journal*, by mail, costs $1.50, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

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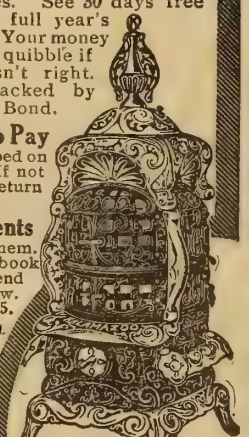
We make a full line of Stoves, Ranges, Gas Stoves and Furnaces. We have three catalogs—please ask for the one you want.



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SAVE MONEY

2 dozen Canvas Gloves for $1 We pay the postage

Largest and heaviest gloves on the market. Direct from factory. Save middleman's profit. Enclose a $1 bill with order.

THE UNION GLOVE CO., Dept. A MARION IND.

are necessary, so that he is never in want. He generally has a home of his own, and keeps his things in order, so that he knows where to find them. He has his children so trained, that they are obedient to him, and help him in all that he undertakes to do. He is a proper example to be imitated, by his children, or whoever he may come in contact with, because he is always brave and courageous in all his undertakings.

—Hettie Gibble, age 15.

[While there is a great deal of good in this portrait of an ideal man, there are several points in which Aunt Mary would not agree with Hettie. She would like to hear what the young folks think about it.]

The Beautiful Sky.

(Second Prize.)

How many of you have realized the beauty of the sky? The beauties of the day help to beautify the scenery on earth. Each day the sky is different, just like the pages of a story book. Sometimes it is clear and cloudless, and at other times gray and cloudy. Have you noted the many different shapes and colors of the clouds? Some evening at twilight, when small clouds are floating in the air, watch them and see them change shape as they float along. Sometimes the clouds are black, sometimes gray, and even white, reddish and greenish hues are put upon them. The sky itself is not always the same shade of blue. At night the moon and stars beautify the sky and in daytime the sun lights and beautifies the sky and earth. The sun or moon rising or setting in a cloudy horizon makes a very beautiful scene. Look at the sky a little each day and you will soon note its varied beauties, which each and all help to beautify the scenery on earth. Indeed the sky is like a vast picture book with its various scenery.

—Little Fairy, age 15.

The Playground of Europe.

(Third Prize.)

In school we have been reading of a little country over in Europe called "The Playground of Europe," or Switzerland, and I thought you might like to hear something about it. The playground, as it is called, is only about one-third as large as the state of New York, but it is a very beautiful country and many tourists and people that go for health go to look at its beautiful scenery. Nearly two-thirds of Switzerland consists of lakes and mountains. The highest peaks of the Alps are in Switzerland; they are always covered with snow. The farms are very small. Only one-ninth of the land is tilled, and there is a population of 3,119,635 to be fed. Great storms tear down buildings almost as fast as the people can build them. The summers are short and the crops often fail to ripen as they should, but the Swiss are very thrifty people and make a good living, although many times with great difficulty. The people make a living mostly by entertaining the visitors from other parts of Europe and from America. Innkeeping is one of the leading occupations. The people make money out of their lakes, mountains and glaciers. They build splendid hotels in every mountain nook on their blue lakes, and invite the whole world to come and look at their beautiful scenery. There are over 1,400 hotels. During the long winter months many people are employed in making souvenirs to sell to the visitors and in preparing to act as guides for the people who wish to climb the mountains during the summer months. In May the people begin to come, and continue to come by thousands until October, when the cold weather drives them away. The Swiss people are glad to see them come and sorry to see them leave, for from these visitors the Swiss people reap a harvest of $20,000,000 every year. We are to learn some more about the Swiss people, but this is all we have learned so far.

—Martha Froh.

The Wisconsin shepherd, Frank Kleinheinz, was called to Memphis, Tenn., to judge exhibits of sheep at the Tennessee State Fair. While there he gave a series of demonstrations showing what are the most profitable types of sheep.

Ask your neighbor to subscribe for The Homestead.

Money in Sausage

The demand for good country sausage, such as you can make, is always greater than the supply and you can get good prices. Do your own killing this fall and see how much more profitable it is than to ship. You will need an

ENTERPRISE

Sausage Stuffer and Lard Press

the one machine that stuffs sausage so that it will keep. **Cylinder bored true.** The corrugated spout, our patented improvement, does it—fills the casings solid.

No air bubbles get in to spoil the meat. This is also the perfect lard and fruit press.

With an Enterprise Meat AND Food Chopper you are completely equipped. The one chopper made to chop meat, and chops everything else as well. **Go to your dealer. He has the Enterprise line.** Send us 4c for our new recipe book, "The Enterprising Housekeeper." 200 economical, tasty dishes.

2, 4, 6 or 8 quarts.

4-quart, Japanned, $5.50.

Tinned and Japanned.

All sizes, hand, steam and electric power. No. 5, Family Size, $1.75. No. 10, Large Size, $2.50. No. 22, Farm Size, $4.00.

THE ENTERPRISE MFG. CO. of PA.

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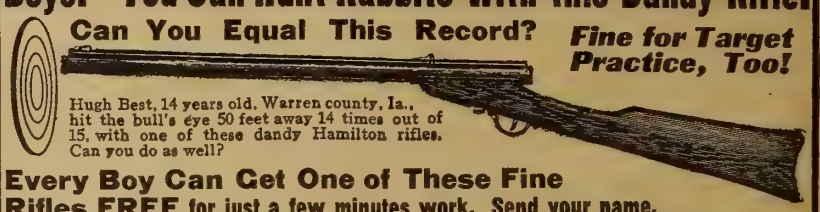
Dept. 83, Philadelphia, Pa.

Boys! You Can Hunt Rabbits With this Dandy Rifle!

Can You Equal This Record? *Fine for Target Practice, Too!*



Hugh Best, 14 years old, Warren county, Ia., hit the bull's eye 50 feet away 14 times out of 15, with one of these dandy Hamilton rifles. Can you do as well?

Every Boy Can Get One of These Fine Rifles FREE for just a few minutes work. Send your name.

The first light snow will soon be here and you will want to get out in the woods and follow the tracks of the Rabbit. There's lots of sport in the early winter and right now is the time to get your rifle.

You can do it easy in a short time. Several thousand boys have already received them as presents from me, and what they have done you can do. Don't send any money but just your name and address and I will send full rifle particulars free.

A. M. Piper, 175 Popular Building, Des Moines, Iowa

PLEASANT FIELDS OF HOLY WRIT

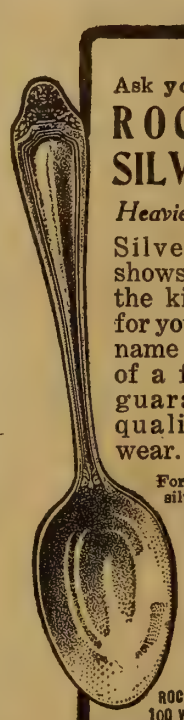
Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 8. Numbers 12. Oct. 12, 1913.

JEALOUSY AND ENVY PUNISHED.

It is a marvel of literature, the fidelity with which the Bible pictures the faults of its heroes. No effort is made to create a series of ideally perfect characters. That is what would have happened if it had been a strictly human production. The Bible gives us its people exactly as they are, without effort to gloss or extenuate—Noah drunk—Abraham lying—Jacob deceiving—David an adulterer—Peter denying—Thomas doubting. So, in this instance, Aaron has been his brother's mate from the very inception of the Exodus—has shared his honors and responsibilities. He is the very incarnation of ecclesiasticism—the embodiment of objective religion as it expresses itself in ritual. On the other hand, Miriam, Moses' sister, is the Virgin Mary of the Old Testament—the foremost woman—organizing and voicing the praise of the people on the deliverance from Pharoah and the Red Sea. But, with terrible fidelity, the Bible pictures the fall of brother and sister from their high estate. And the cause of it is so very human. They are envious and jealous. Miriam has been the "first lady of the land," and has liked being it! But Moses' wife has arrived in camp, and Miriam, with a woman's quick intuition, sees herself about to be displaced. The only way in which she can retain her laurels is to make herself equal to her brother Moses. This she proceeds to do by disparaging him and exalting herself. Her claim is that God has spoken by her as well as by Moses. Aaron follows Miriam in her folly. That the younger brother should be primate seems always to have stuck in his craw. It has led him into trouble before. It is another instance where "base envy withers another's joy and hates the excellence it can not reach." God nipped the insurrection in the bud. He dealt with it swiftly and directly. In unmistakable terms he established and confirmed Moses' pri-



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Silver that soon shows wear is not the kind you want for your table. Our name on the back of a fork or spoon guarantees real quality and long wear.

For over forty years our silver has been handled by the jewelers of this country. This great army of men know that every piece of our ware is absolutely dependable. We shall gladly send you our booklet "Exclusive Silverware" if you so desire.

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Satisfaction guaranteed.

Sweet toned violin, horse hair bow and box of resin given for selling 20 large colored Art and Religious Pictures at 10c. Order today. GATES MFG. CO., Dept. 653. Chicago

macy. He punished Miriam with the tell-tale disease of the Orient. Aaron goes far toward restoring himself in good graces of the reader by the promptness with which he shared his sister's guilt and cries to the very brother of whom he had been so jealous, "Lay not the sin upon us wherein we have done foolishly!" Like a mediator he pleads for his sister. The Bible does not afford finer illustration of contrition, confession, and supplication than that of Aaron and Miriam. Their hearts were broken for and from their sin. They did not hesitate to offer the honorable amend to Moses and thus, as far as possible, make restitution. The joy and blessedness of those whose sins are forgiven has bright example in this instance.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5938 Ladies' Coat.—This coat can be made in either the 44 or 56½-inch length. The high or low collar can be used. Serge, cheviot or broadcloth can be used to make this coat with the collar and cuffs of contrasting material.

The pattern 5938 is cut in sizes 32 to 42 inches bust measure. Medium size requires 4 yards of 44-inch material wtih 1⅛ yards of 27-inch contrasting goods. Price of pattern ten cents.

6319 Ladies' Dress.—A novel style with coat blouse which also has the drop shoulder and an open front with a handsome collar. The two-piece skirt may have either the high or the normal waistline. This style is suitable for linen, gingham, ratine, silk, crepe and serge or other light-weight woolens.

The dress pattern, 6319 is cut in sizes 34 to 42 inches bust measure. Medium size requires 5⅞ yards of 36-inch material. Price of pattern ten cents.

6297 Ladies' Three-Gored Skirt.—This model shows one of the newer styles for tailored skirts. It opens in front, where the material is slightly draped at about knee depth. A small V-shaped piecing fills in the opening at the foot. Not only tailored goods, but also soft silks and crepe materials will make up well in this style.

The skirt pattern 6297 is cut in sizes 22 to 30 inches waist measure. Medium size requires 2⅞ yards of 44-inch material. Price of pattern ten cents.

6188 Ladies' Dressing Sacque.—Any of the pretty crepe materials can be used to make this dressing sacque. The flowing or gathered sleeves can be used.

The pattern 6188 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2⅛ yards of 36-inch material with 5 yards of ribbon for the trimming. Price of pattern ten cents.

6232 Girls' Dress.—This pretty frock has a box plait from the shoulder to the hem at each side of the front and of the back. There is also a small underturned plait at each of the side seams. The general cut of the dress is in sacque style, with no division at the belt. Poplin, linen or pique can be used to make this dress.

The pattern 6232 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 3⅞ yards of 36-inch material. Price of pattern ten cents.

COAL Direct From The Mines

Keep Dealer's and Jobber's Profits In YOUR Pocket

DO you know that wherever you live *you* can now buy coal straight from the mines at wholesale prices, the prices your *dealer* has to pay?

Do you know that this winter you can save from $50 to $100 on your coal supply—have it delivered promptly—the cleanest, best heat-producing coal you ever used?

It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

Our great mines near Vincennes, Indiana, produce enormous quantities of the finest coal in the country—the coal that is famous for its remarkable heat unit efficiency. We ship everywhere direct from mines in carload lots this splendid guaranteed fuel.

Tecumseh Coal

Save $50 to $100

on your winter's coal supply. We know that seems too good to be true, but it is an absolute fact that hundreds of people far and near are already buying Tecumseh Coal from us at wholesale and making this marvelous saving.

Not only is Tecumseh the best heat giving coal—but it is *all coal*—cleaned at the mines by the most perfect system ever installed.

No matter how big your coal bills have been in the past—no matter how much you have fattened the jobber's and dealer's profits—the time to turn your back on the old costly round-about way of buying is now. Begin with *this* winter to make this real saving.

It is plain common sense for you to save money by dealing *direct with the mines.* You owe it to yourself to find out the facts and prices—to learn more about Tecumseh Coal. All we ask is the opportunity to quote you prices—to prove in actual figures the splendid saving you can make.

This should interest you whether or not you intend to buy a full car of coal.

Club with Your Neighbors

If you cannot use a whole car—25 to 40 tons—you can easily arrange with your neighbors to divide up the shipment and still make this handsome saving on your winter's coal.

This money-saving plan is too important to be set aside. The amount of waste money you have been paying your dealer belongs in your own pocket. Keep it there. Right now take the first step. It obligates you to nothing. Just fill out and mail us the coupon in this advertisement. The prices we quote will positively surprise you. But do it now before the matter slips your mind. Address

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Money-Saving Coupon

Martin-Howe Coal Co.,
1936 McCormick Bldg., Chicago, Ill.

Gentlemen:—Am interested in your proposition of better coal for less money. Please quote prices, freight included, delivered at my nearest railway station, on the following coals:

No. of Cars..... Kind of Coal.....

No. of Cars..... Kind of Coal.....

Name.....

Nearest R. R. Station..... Name of Railroad.....

Postoffice..... County..... State.....

MISSOURI 1913 STATE FAIR.

(Continued from page 21.)

SHROPSHIRE SPECIALS.

Ram 2 Years or Over—1st Groves; 2d Sneed.
Ram 1 Year and Under 2—1st McKerrow & Son; 2d Groves.
Ram Lamb—1st, 2d and 3d Groves.
Ewe 1 Year and Under 2—1st and 2d Sneed.
Ewe Lamb—1st 2d and 3d Groves.
Best Ram Any Age—1st McKerrow & Son.
Ewe Any Age—1st Groves.
Pen of Four Lambs—1st Groves.

MISSOURI SPECIALS.

Ram 2 Years or Over—1st and 2d Groves; 3d Sneed.
Ram 1 Year and Under 2—1st and 2 Groves; 3d Sneed.
Ram Lamb Under 1 Year—1st and 2d Groves.
Ewe 2 Years or Over—1st Groves; 2d Sneed.
Ewe 1 Year and Under 2—1st Groves; 2d Sneed.
Ewe Lamb Under 1 Year—1st and 2d Groves.
Flock—1st Groves.
Ram Any Age—1st Groves.
Ewe Any Age—1st Groves.

OXFORDS.

Exhibitors: Geo. Allen & Son, Lexington, Neb.; T. J. Burris, Prairie Home, Mo.; Geo. W. McKerrow & Son, Pewaukee, Wis.; W. W. Waltmire & Sons, Peculiar, Mo.
Ram 2 Years or Over—1st and 2d McKerrow & Son; 3d Burris.
Ram 1 Year and Under 2—1st and 2d McKerrow & Son; 3d Allen & Son.
Ram Lamb Under 1 Year—1st McKerrow & Son; 2d and 3d Burris.
Ewe 2 Years or Over—1st McKerrow & Son; 2d and 3d Allen & Son.
Ewe 1 Year and Under 2—1st and 2d McKerrow & Son; 3d Allen & Son.
Ewe Lamb—1st and 2d McKerrow & Son; 3d Burris.
Flock—1st and 2d McKerrow & Son.
Pen—1st Burris; 2d Allen & Son.
Ram Any Age—1st McKerrow & Son.
Ewe Any Age—McKerrow & Son.

MISSOURI SPECIALS.

Ram 2 Years or Over—1st and 3d Burrows; 2d Waltmire.
Ram 1 Year and Under 2—1st Burrows; 2d and 3d Waltmire.
Ram Lamb Under 1 Year—1st and 2d Burrows; 3d Waltmire.
Ewe 2 Years or Over—1st, 2d and 3d Burrows.
Ewe 1 Year and Under 2—1st and 3d Burrows; 2d Waltmire.
Ewe Lamb Under 1 Year—1st and 3d Burrows; 2d Waltmire.
Ram Any Age—1st Burrows.
Ewe Any Age—1st Burrows.

HAMPSHIRES.

Exhibitors: Sherwood Bros., Shelbyville, Mo.; Geo. Allen & Son, Lexington, Neb.; W. W. Waltmire & Sons, Peculiar, Mo.
Ram 2 Years or Over—1st Allen & Son; 2d and 3d Sherwood Bros.
Ram 1 Year and Under 2—1st and 2d Sherwood Bros.; 3d Allen & Son.
Ram Lamb Under 1 Year—1st and 2d Sherwood Bros.; 3d Allen & Son.
Ewe 2 Years or Over—1st and 2d Allen & Son; 3d Waltmire.
Ewe 1 Year and Under 2—1st and 2d Allen & Son; 3d Sherwood Bros.
Ewe Lamb Under 1 Year—1st Allen & Son; 2d and 3d Sherwood Bros.
Flock—1st Allen & Son; 2d Sherwood Bros.
Pen—1st and 2d Sherwood Bros.
Ram Any Age—Allen & Son.
Ewe Any Age—Allen & Son.

MISSOURI SPECIALS.

Ram 2 Years or Over—1st and 2d Sherwood Bros.; 3d Waltmire.
Ram 1 Year and Under 2—1st, 2d and 3d Sherwood Bros.
Ram Lamb Under 1 Year—1st, 2d and 3d Sherwood Bros.
Ewe 2 Years or Over—1st Waltmire; 2d and 3d Sherwood Bros.
Ewe 1 Year and Under 2—1st and 3d Sherwood Bros.; 2d Waltmire.
Ewe Lamb Under 1 Year—1st, 2d and 3d Sherwood Bros.
Flock—1st and 2d Sherwood Bros.
Ram Any Age—1st Sherwood Bros.
Ewe Any Age—1st Sherwood Bros.

COTSWOLDS.

Exhibitors: Tom Groves, Tipton, Mo.; S. H. Groves, Tipton, Mo.; Anoka Farms, Waukesha, Wis.
Ram 2 Years or Over—1st and 2d Anoka Farms; 3d Tom Groves.
Ram 1 Year and Under 2—1st and 2d Anoka Farms; 3d Tom Groves.
Ram Under 1 Year—1st and 2d Anoka Farms; 3d Tom Groves.
Ewe 2 Years or Over—1st and 2d Anoka Farms; 3d Tom Groves.
Ewe 1 Year and Under 2—1st Anoka Farms; 2d and 3d Tom Groves.
Ewe Lamb Under 1 Year—1st and 2d Anoka Farms; 3d Tom Groves.
Flock—1st Anoka Farms; 2d Tom Groves.
Pen—1st Tom Groves; 2d S. H. Groves.
Ram Any Age—1st Anoka Farms.
Ewe Any Age—1st Anoka Farms.

MISSOURI SPECIALS.

Ram 2 Years or Over—1st, 2d and 3d Tom Groves.
Ram 1 Year and Under 2—1st Tom Groves; 2d and 3d S. H. Groves.
Ram Lamb Under 1 Year—1st, 2d and 3d—Tom Groves.
Ewe 2 Years or Over—1st, 2d and 3d Tom Groves.
Ewe 1 Year and Under 2—1st Tom Groves; 2d and 3d S. H. Groves.
Ewe Lamb Under 1 Year—1st, 2d and 3d Tom Groves.
Flock—1st Tom Groves; 2d S. H. Groves.
Ram Any Age—1st Tom Groves.
Ewe Any Age—1st Tom Groves.

SOUTHDOWNS.

Exhibitors: Geo. Allen & Son, Lexington, Neb.; W. W. Waltmire & Sons, Peculiar, Mo.
Ram 2 Years or Over—1st and 2d Allen & Son; 3d Waltmire.
Ram 1 Year and Under 2—1st, 2d and 3d Allen & Son.
Ram Lamb Under 1 Year—1st Waltmire; 2d and 3d Allen & Son.
Ewe 2 Years or Over—1st and 2d Allen & Son; 3d Waltmire.
Ewe 1 Year and Under 2—1st and 2d Allen & Son; 3d Waltmire.
Ewe Lamb Under 1 Year—1st and 2d Allen & Son; 3d Waltmire.
Flock—1st Allen & Son; 2d Waltmire.
Pen—1st Allen & Son.
Ram Any Age—Allen & Son.
Ewe Any Age—Allen & Son.

STOCK-JUDGING CONTEST.

Thirty-four young men mostly from the agricultural college competed for prizes offered for the best judges of live stock under twenty-five years of age. The young men were asked to place various classes of live stock and give their reasons for so doing. H. O. Allison, of the college, had charge of this work.

The standing of the students in the various classes of stock judged was as follows:

Hogs—1st, J. D. Dickerson, Shelbina, Mo.; 2d, Chas. Caldwell, Burlington Junction, Mo.; 3d Carl Gillispie, Albany, Mo.

Sheep—1st, J. W. Arnold, Lewistown, Mo.; 2d, W. W. Fuqua, Monroe City, Mo.; 3d, Chas. Caldwell, Burlington Junction, Mo.

Beef Cattle—1st, Chas. Caldwell, Burlington Junction, Mo.; 2d, Grant Goodson, New Cambria, Mo.; 3d Carl Gillispie, Albany, Mo.

Horses and Mules—1st, J. W. Arnold, Lewistown, Mo.; 2d, A. R. Troxell, Columbia, Mo.; 3d, Grant Goodson, New Cambria, Mo.

Dairy Cattle—1st J. D. Dickerson, Shelbina, Mo.; 2d, A. J. Neal, Bolivar, Mo.; 3d, W. W. Fuqua, Monroe City, Mo.

Standing in Finals—1st, J. W. Arnold, Lewistown, Mo., score 878; 2d, J. D. Dickerson, Shelbina, Mo., 865; 3d, Chas. Caldwell, Burlington Junction, Mo., 862; 4th W. W. Fuqua, Monroe City, Mo., 837; 5th A. R. Troxell, Columbia, Mo., 834.

Fred Meyers, Nevada, Mo., was awarded the scholarship for the short course at the university.

WHY YOUNG MEN SHOULD STAY ON THE FARM.

To the Editor of The Homestead:

I presume that every young man has this important question to decide—whether or not he shall stay on the farm. Much depends upon his decision. His decision will not only affect himself, but that portion of the human family which he shall represent. It seems that any young man ought to make his decision easily in favor of the farm, but quite the reverse. Even the name of "farm" is disgusting to some boys. Why? Because they have been taught to consider it in that light.

Many a farmer, who has a farm paid for and quite a bit of stock around him, concludes that the rural school is not sufficient for his children, so he rents the old farm and moves to town. The school is all right for the ones who need it, but it is not what the boy needs who expects to become a farmer. Then the sons who are moved into town have comparatively nothing to do, compared with their work on the farm and they grow up with merchants' and bankers' sons; see them wearing nice clothes and doing work that seems much more pleasant than the work of the farm. They grow up to know nothing about the realities of either city or country life.

The boy that is brought up on the farm sees more operations carried to a successful end than any other class of boys. He not only sees, but is aiding in these operations, in many instances owning an interest in some stock or field of grain.

Man lives more naturally on the farm. He is not in a great whirl of business like his city friend. The farmer's business is situated in such manner that he can get away occasionally and this broadens his view of matters. He can have his rural mail delivery and telephone, and get the news of the country almost as soon as the city man. The farmer is kept in direct touch with the latest.

If the young man has desires and longings for political and social distinctions, this desire can be more easily gratified in the country than elsewhere, for in no place is a man so completely lost as in the city. The successful farmer is not only highly respected, but is frequently asked to take prominent positions. A goodly number of our lawmakers have once been farmers, and as time goes on, the demand for this kind of citizens to make our laws is going to increase. To accomplish these ends, the young farmer must equip himself with a good agricultural education.

There is not the chance on the farm for the boy to become suddenly wealthy, but there is a splendid opportunity to live out one's ideals, enjoy life and at the same time lay by something for declining years.

Subscriber.

The Wisconsin Potato Growers' Association will hold its annual convention at Rhinelander, November 13th to 14th, and preliminary announcements have been mailed to large numbers of potato men in all parts of the state. Definite steps will be taken toward an improvement of the potato stock of the state. Many growers are selecting their exhibit stock for the potato show that will be held in conjunction with the convention. The premium list will be so arranged as to encourage the growing of standard varieties. Lectures will be given on the best varieties of potatoes, and on cultural, and harvesting methods. Exhibition space will be free and all reputable potato-growing interests applying, will, if possible, receive allotments in the exhibition hall.

Ask your neighbor to subscribe for The Homestead.

LANDS AND HOMES

OHIO FARM FOR SALE

LAKEVIEW farm of 167 acres, located in Fairfield county, twenty-eight miles east of Columbus, the Capital of the State. All black land—well adapted to raising corn and general farming. Farm is leased for gas, having one very strong producing well, which affords free gas for the farmhouse besides an annual revenue. Will sell with farm, crops and implements and a fine span of young Percheron mares. Price $150.00 per acre including gas lease. Correspondence solicited from interested parties.

OSCAR BAKER, Owner, 204 Lincoln Ave., Delaware, Ohio

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$4,000 DOWN and time on the balance at 5% interest will buy a 600-acre farm, we have for sale in the North Platte Country, Nebraska. It joins a railroad right-of-way, is near beet dump, has good house, barn and improvements. 100 acres in corn this year will go 30 to 40 bushels. 35 acres in alfalfa has produced three crops. Subject to irrigation Price $40 per acre. The soil is exceptionally good and this is a rare bargain. Address

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FOR SALE Eastern North Dakota, slightly rolling quarter section, no improvements. One mile from county seat, black soil; town has five elevators. Inquire Miss M. C. Roskoten, 211 South Jefferson Avenue, Peoria, Illinois.

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320 ACRES--- One of the best farms in Saskatchewan. Two miles from station with two elevators, on G. T. P. R. R. For sale by owner, no commission. E. H. Dancer, Rainton, Saskatchewan, Canada.

Farm Bargains in Taylor county. Liberal terms. Write **today** for list. We are OWNERS. Loeb-Hammel Realty Co., (Not inc.), Medford. Wis.

WANTED to rent farm already stocked on shares or will buy farm if parties just want the interest. Address S. F. M., care of Homestead.

For Sale To settle an estate, 160 acre farm in Dodge county, Minnesota. Address Joseph Chase, Exr., Toulon, Illinois.

292 ACRE ALFALFA AND STOCK RANCH

75 ACRES in alfalfa, ten acre timber feed lot, balance corn and blue stem grass. R. R. station at corner, all very choice river valley land, within three miles of two towns. $100 an acre. Improvements fair. 80 acre alfalfa farm well located and improved, $125 an acre. 240 acre well improved and located, upland farm, $50 an acre, 480 acre, well improved and well located upland farm at $60 an acre. All in Lyon county, Kansas. Address
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200 ACRES of good, well improved, Shelby county land, for sale at a bargain if taken at once. Would accept small herd of any good breed of cattle as part payment, if desired. Write for particulars. Address
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IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

IOWA FARMS--- Write **today** for our Special Farm Bargain List. Farms of all sizes for sale, and the cheapest **good** land in Iowa. SEE these before buying: we can suit you.
E. E. McCALL - - WINTERSET, IOWA

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ALL KINDS OF FARMS FOR all kinds of people, Free Catalogues. Hall's Farm Agency, Owego, Tioga County, New York.

TYPE VERSUS BREED.

THERE is no best breed of live stock for all purposes, but there is a best type for each distinct purpose. The choice herds and flocks have not been produced by chance, but are the results of careful selection, proper care and liberal feeding. All of these conditions, when properly fulfilled, mean a good animal, or a better animal than when either is absent. An expert judge can select his animals, but if he does not know how and what to feed, the result will be a pure-bred scrub. If he selects a poor, off-type animal, care for it as he may, the result will be the same, as nature did not intend otherwise.

The best type within the breed and the best methods known to retain this type should concern every breeder of pure-bred live stock in the United States. Breeds have been originated by men who had in mind ideal animals for distinct purposes. They have improved these animals by adhering to distinct types in the breeds. A scrub of the worst type may be improved, by the use of pure-bred sires of the proper type, as we all know, until a high grade is secured. In general appearance and conformation, it is frequently superior to many of the pure-breds of the breed. With horses, for example, advantage is taken of this condition by owners of grade stallions, and comparisons as to individuality are made, which usually result in the condemnation of the pure-bred. Record associations have been organized to record animals possessing other requirements for entry than that of known ancestry for many generations. In South Dakota alone, spurious pedigrees of many stallions have been discovered by the Stallion Registration Board, and, instead of being licensed as pure-breds, were placed usually in the "no-grade" class, or a stallion of no known breeding. By this the mare owner is given an opportunity of knowing something of the breeding of the stallion he selects to patronize. When the mare owner uses a pure-bred stallion he has in mind the type of horse he desires to produce on his farm, probably because of the notoriety of the type of that breed.

As judge of live stock for the past seventeen years at state and county fairs, and in purchasing the foundation stock for fifteen different herds and flocks for the agricultural college of South Dakota, and attending to the details of making the nine different combination sales of horses, cattle, sheep and swine for the stockmen of the state, my experience has been that quite a large majority of the so-called breeders are not breeders, but merely mixers. For example, the Short-horn is the most popular breed of cattle in the United States. This popularity must be credited to the fact that as a breed it comes nearer filling the dual-purpose capacity than any other. The cows are fairly good milkers, and when fat make good beef. Now, I do not claim this breed is as good for milk production as one specially developed along dairy lines, but some are extra good milkers and some are extra good beef cattle. I believe there is a greater variation in type in this breed than with any of the leading breeds. Hardly a square deal to expect Short-horns to be as uniform as the Aberdeen Angus or the Herefords for beef production, because they were improved in both the beef and dairy lines. The pure Bates strain of the Short-horn is a better milk producer than the pure Cruickshank strain. The "Scotch strain," if we might be permitted so to call it, does not necessarily belong to either the Bates or the Cruickshank type, although the Cruickshanks are Scotch cattle. Many of the pure Scotch strain are good milkers, but the majority of the pure-bred herds have been crossed with Scotch bulls until the Bates and Cruickshank families are badly mixed with Scotch blood. However, there are a few breeders who have ben wise enough to stand pat with the Bates and the Cruickshank families, and have maintained their respective types.

Again, a Holstein cow is usually black and white, and probably either recorded or eligible to record in her respective record association. These facts alone do not indicate that she is of any value as a milk and butter producer. Her character as a cow, and the records of the performances of her ancestors on both sides, her conformation, and temperament, have greater value than the fact that she is a pure-bred. She may not yield enough to pay for her board, and yet be a pure-bred Holstein-Friesian. As a rule, she must be of the dairy type so easily recognized as a milk producer, and not of the beef type. Unless this type is adhered to in both the sire and the dam, a first-class dairy herd cannot be established. The breed can be increased in numbers, but the desired type, in a few generations will be lost by mixing within the breed.

There are three distinct classes of men who keep pure-bred live stock—the breeder, the mixer and the dealer. Men of the first class are the only ones worthy of the name, providing they know the details of their business, and discard, and not record as pure-bred, all the progeny of pure-bred ancestry. Such men thereby maintain the type desired by the market, as this is the final destination of the majority of our animals.

The mixers are men who rely entirely on the judgment of others, who may be mixers also, for their sires, year after year, without ever making a selection. The animal purchased may be sired by Jones' Prize Winner and yet be a very inferior individual. However, having paid the price asked for the sire, ninety-nine times out of a hundred he will be used on the herd or flock. This mixer in turn will dispose of the offspring by referring to the record of the grandsire in the show ring. In fact, many of the catalogs of public sales today have prominent foot notes describing in detail the wonderful prices received for some of the ancestry many and many years ago. By figuring the actual per cent of blood in the veins of the animals to be sold, in most cases it is very small, indeed. Now, if we had some evidence of the type of this high-priced animal, and also if we had some indication that the type in the successive generations had been maintained, the animal in existense would be of greater value to us as a breeder.

The third class of breeders are those who buy and sell continually for the dollar that is made. This class will never do our breeds any good, and they may be tempted to make substitutions of grade or animals of no breeding for the pure breds. It requires years of selection to rid a herd or a flock of the undesirable characteristics caused by using a poor sire. Then why do we do it? It is because we have in mind a breed and not a type. Too much of this mixing is practiced today for the good of the breeds.

I have often been tempted to ask the following questions: In your judgment, does the type of the pure-bred you are keeping have as much weight with you as the breed? Did you purchase your foundation from a breeder, a dealer or a mixer? Do you select your animals according to the score card for the breed, or did you rely on a mail order, or have someone make your selection? If you had some one make your selection were you sure he had knowledge of the defects in your herd or flock and the requirements for the ideal animal in the markets? I have known so-called breeders to purchase inferior-typed sires because they were a few dollars less in price. Many of our farmer friends breed their mares to an inferior-bred stallion because the service fee is a few dollars less. The dollar seems to play an important part with the improvement of our live stock, and probably will until the breeders are educated to the point that the best type, at any price, is none too good. In this connection many of the states are doing a wonderful work in educating the youth along live-stock lines at the agricultural colleges, and by providing for state and county fairs.—[J. W. Wilson before Kansas Agricultural Convention.

SHEEP.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - LOGAN, IOWA

Echoes From a Kansas Farm

BY HENRY HATCH

The state, except for a few locations, has now been well soaked. The wheat belt, where rain was needed most, has had plenty.

Those with feed shortage are now expecting help from wheat pasture. Here is hoping that they get it, but we never have yet seen a winter so mild that stock may be wintered entirely on the wheat fields. But half enough from the wheat fields will be sufficient to pull many through in fine shape.

A local banker tells us his bank has more money to loan than ever before. Instead of coming in and asking for time extensions and larger loans, he says most of their customers are paying off their old obligations and are not making new ones. A shut-down on speculation is one probable reason for "paying up," as few are going into cattle feeding this fall.

Usually, at this season of the year, every bank in this section of Kansas has from one to two customers who invest heavily in feeding cattle. A great share of the cattle feeding is done on borrowed capital, and, inasmuch as few are as yet tackling the cattle feeding proposition, the demand for money is not great.

The first public sale of any size was held in the county last week. Everything brought old-time prices, so the pessimist who was having the country gone to the bow-wows has another guess coming. Everything sold well, but cattle exceptionally well. Ordinary milk cows brought from $75 to $85. Steers sold proportionally high.

We are feeding the first cut fodder first, having found that the more drouth stricken the fodder the more it weathers in the shock. We shall stack some of the more crinkled shocks, then during cold, stormy days the team will not have to go to the fields for the feed. Pulling fodder out of a field of mud is equally as unpleasant, so some stacked close around the feed lots comes in handy.

The sale just mentioned footed up to $3,200 anad all but $525 of it was paid in cash, so the reader can see that buying for future payment was not indulged in to any extent. Somehow, when a man pays spot cash we think he exercises more judgment and is not so apt to pay too much for an article just because of the auctioneer's urging.

The manure-hauling season has arrived and with no corn to husk, the Kansas farmer will have no excuse for leaving the yards knee deep for the cattle to wallow in when there is too much rain. This work goes off best when there is chill enough in the air to make a man work to keep comfortably warm. A man can then get out a good deal in a day, with a good spreader to unload it—and he can also eat a good deal when he comes to the table.

There has lately been a good deal of buying of second-hand autos in this section. Men will go to the cities and hunt for bargain cars, then bring them out to the country to sell at a profit. In some cases, with $50 or $100 added by the traders, the purchasers get cheap autos, then again they get stung. A trader's auto is like a trader's horse, it may not behave according to appearance.

A man with a mortgage tacked on any of his property has no business buying an auto. Pay off the mortgage first, then if there is enough left that is not particularly needed, buy an auto. It is common talk that many have autos who owe bills at the grocery of two and three years' standing. With the groceryman himself not able to own a machine, naturally he is impressed with the inequality of things as he looks out on the street and sees his tardy customer flash by in his luxurious machine.

Farm machinery sold well, contrary to the common belief. Before this sale we heard one man say that it would be possible to buy machines at sales this fall that were worth $30 for a mere $6 or $8, but the outcome of this sale proved that assertion radically wrong. Even a quite old walking cultivator brought $7.50.

The ten to twelve acres of creek timber on this farm is going to furnish considerable fire wood for the coming winter, as the dry season has put a quick finish on most of the trees that were apparently dying a slow death. We'll have the time to get the wood out and in shape for the stove, thus having no corn to husk will serve to cut down on the coal bill—no great loss without some small gain, as the saying goes.

I SHIP C. O. D.

FOR distance of 100 miles, choice registered Shropshire sheep; yearling ewes, $12.00; 2, 3 and 4 year old ewes, $10.00; 5 and 6 year old ewes $9; ewe lambs, $9. This special low price for thirty days, ending November 7th. Are of mutton type and in good condition. Crated and recorded in your name free. Some ewes bred for early lambs. Address
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POLAND CHINA HOGS, BIG-TYPE
Fall and spring boars at $18.00 to $20.00. Rams same prices. Order now and get the best.
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FORTY GOOD
ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
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I AM closing out my herd at cut rate prices on account of other business. 11 choice yearling rams, 4 two-year-old ram, and some ram lambs. They are heavy boned and well wooled. Low prices to close out. I am about sold out of ewes.
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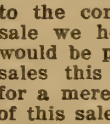
YEARLING, two-year-old and three-year old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA



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Registered Shropshires
34 YEARLINGS and twenty lamb rams. Call on or address, mentioning The Homestead.
S. Bennington's Sons, R. 2, Elkader, Iowa

FOREST HILL STOCK FARM
OFFERS at bargain prices. Shropshires, both sexes of all ages, quality and breeding good. Will price ewes in lots at prices to suit. Call or write
KAUFMANN BROS., R. 3, MOSCOW, IA.

RAMBOUILLET SHEEP Choice rams and ewes for sale. Prize-winning stock and excellent blood lines. Address at once C. S. Bratt, Arapahoe, Nebraska.

RAMS, LINCOLNS, Registered yearlings $25.00 B. F. Clark, Albia, Iowa.

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

SHROPSHIRES 20 recorded rams and 50 ewes for sale, at reasonable prices.
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SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Williard Miller, R. 2, Anita, Iowa.

REGISTERED SHROPSHIRE RAMS. All ages, best breeding. Express prepaid. Address F. N. Sterner, Agency, Iowa.

SHROPSHIRE RAMS Imported and home bred. Address James H. Heald, Tipton, Iowa.

THE LIVE STOCK MARKET

Union Stock Lards, Chicago, Ill., Oct. 4.—A new free trade area has been inaugurated by the signing of the tariff bill by President Wilson and the live stock trade is now face to face with a condition, not a theory. According to Canadian advices a lot of cattle have been held up in Ontario awaiting opportunity to cross the line free of duty. Should shippers use bad judgment and flood Buffalo and other Eastern markets next week, trouble will be the lot of local salesmen, as Eastern demand here will be sharply curtailed. Toronto also reports an accumulation of stock cattle awaiting elimination of the duty. These are held at the Toronto stock yards and will be cut loose en masse. The readjustment process which free trade will necessitate will not be effected instantly and will involve more or less upheaval, uncertainty and confusion. The immediate prospect is uncertain. Ultimately values in Canada will be lifted to a parity with quotations at United States markets, but no one can predict what will happen meanwhile and there exists a practical certainty that the arrival of any considerable quantity of low-grade foreign frozen and chilled beef and mutton will exert an adverse influence on values of cheap steers, butcher cattle and sheep, but prime fat cattle and lamb values are not expected to suffer, even momentarily, from this condition.

The selling side has been put over severe bumps in the cattle trade since high time last week. In the beef steer trade cattle selling at $8 to $8.75 have been hit hardest, by virtue of the fact that swelling receipts have carried an excess of that kind. Most cattle selling within that range are 50c lower than the high spot last week, while under the 8c line declines are 25 to 40c. Good heavy cattle have had a 25c setback, plenty of $9 cattle this week being the kind eligible to $9.25 a week ago. A few choice handy-weight and yearling steers have suffered only 10 to 15c but these are specialties in the strictest sense of the term. The whole list has been scaled down, a combination of adverse influences having been effective. Jewish holidays of ten-day duration, liquidation, a logical reaction after two weeks of steady appreciation and heavy marketing of Eastern cattle have all been adverse influences.

Nothing discourages producers more than unstable markets and a trade that is alternately 50c higher or lower within a few days is calculated to repress rather than increase production. A cattle feeder who was in the Chicago market ths week to find a 40c lower trade than a week ago, announced that he would not accept the gamblng chance necessitated by winter feeding operations, but would dispose of his corn and hay crops. If packers really intend to spend $500,000 in encouraging meat production no more effective methods could be devised than maintaining a stable market. Fluctuations in retail and wholesale quotations are rare, while stock yard prices are as erratic as the weather.

While the country may not be in the mood to convert corn into beef in wholesale quantities during the coming winter, it manifests no lack of confidence in the future of beef making. Whenever a report of a break in the values of stock cattle leaves market centers a mad rush to sit in at the bargain sale results. Hundreds of "railbirds" congregated at the Chicago yards Thursday and Friday owing to a slight drop in the values of stock and cattle earlier in the week. The fact is that every section of the United States is woefully short of young cattle and while the feed problem may simplify itself next year, cattle scarcity will become more acute. Many of the stock cattle now going to the country will not be made fit for beef during the winter, as was the case last year, but will be roughed and finished on grass next summer. It is a storage proposition and the less stock cattle weigh the more rapidly they sell. Iowa has been a greedy buyer all summer, and yet that state is 40 per cent short of a normal cattle supply. Distribution is unusually wide at present, Montana and Texas having been buyers at Kansas City recently, while Ontario stockers are going into Pennsylvania by the thousand.

A few loads of selected feeding cattle of strong weight have gone to the country this week at $7.75 to $7.90 and a breedy class of steer yearlings up to $7.65, but most of the strictly good to choice 500 to 800 pound yearling and two-year-old steers are selling at $7.25 to $7.50, a fair to good kind of like weights and plain to medium feeders at $6.50 to $7.10. Inferior mixed stockers ranged down to $5.90 and $5.25, but only a common and plain light sort went at $5.50 to $6.00. Well-fleshed 900 to 1,050 pound feeders of good quality have sold largely at $7.40 to $7.60. Stock and feeding cows are selling largely at $5.00 to $5.50, a choice young feeder class up to $5.75 while a spread of from $5.75 to $6.25 took the bulk of the stock heifers though a choice to extra class of feeding heifers sold as high as $6.60 to $7. Some inferior dairy-bred thin heifers sell down to $4.50 to $5.00.

Actual receipts of hogs at six leading western markets for September were 1,320,621, or 368,072 more than in September, 1912. Chicago alone had 587,877 of the grand total, being 399,430 more than any other western market. The first nine months of this year six western markets received a total of 13,724,045 hogs, against 14,358,401 like period last year and 13,969,180 corresponding period of 1911.

Close to 1,000,000 cattle registered in the aggregate at six western markets during the month of September, or 46,401 more than September, 1912. The nine months total at these markets is 5,421,206, or 163,164 more than like period last year, due to the rush of drouth refugees out of the Southwest to Kansas City. These supply figures do not lend credence to beef scarcity alarm, nor veracity to predictions of dollar beef steak cuts, but elsewhere than Chicago, marketings of the past three months have been mainly of "near-beef" and stockers and much of the big movement of August and September has merely represented shifting of immature cattle from drouth districts to more favored sections.

A surprising decrease in the number of cattle and hogs on feed, as compared with last year, is shown by reports to the Price Current. Kansas, Nebraska and Missouri make the poorest showing owing to the loss of their corn crops. Ohio has 88 per cent as many cattle on feed as a year ago and 97 per cent as many hogs while Indiana has 84 per cent cattle and 86 per cent as many hogs as a year ago. Cattle feeding in Illinois is 83 per cent of last year's and hogs 88 per cent, while in Iowa there are 83 per cent as many cattle and 75 per cent as many hogs. Kansas reports only 24 per cent as many cattle and 43 per cent as many hogs as a year ago. In Nebraska cattle are 51 per cent and hogs 62 per cent; in Oklahoma cattle 76 per cent and hogs 85; Missouri 45 per cent cattle and 62 per cent as many hogs as last year.

Health conditions for swine in the country at large are not the best, and facing the highest priced corn situation for fall and winter feeding that has confronted them in years, farmers are more inclined to sacrifice their young hogs at light weight than usual at this time of year. This has resulted in a big wave in supply the last week, indicating a total but little short of 150,000 head against 137,412 last week and only 82,541 head one year ago this week. This drawing against future supplies, it is held, can mean for the winter market only acute scarcity of good hogs and attendant high prices. Of this condition nearly every old-timer in the trade feels confident. An average weight of hogs for September down to 222 pounds, the lightest at this market since March, 1912, tells the story of sacrifice of many thousands of hogs at light weight, this average standing thirteen pounds lighter than for the same month last year and thirty-seven pounds lighter than for September, 1910.

Pigs, most of them fifty to 100 pound averages, have formed close to 25 per cent of Chicago porcine receipts this week. Within the past few weeks a draft has been made on the winter and spring hog supply that cannot but be reflected by scarcity and high prices later on. The little fellows are meeting a broad demand to supply fresh meat trade. Fully one-third of the 20,000 head of porcine stock here Friday consisted of pigs. More of them sold at $5.50 than at any other prices. Choice light hogs reached $8.80 to $9, but sales above $8.85 were on the "scratch" order. A good class of heavy packing hogs sold at $8.25 to $8.40 and desirable mixed at $8.30 to $8.60, while butcher and shipping grades, ranged from $8.60 to $9.00, few above $8.80.

Responding to sharply curtailed marketings, everything ovine has sold to better advantage here this week. Sheep, which have probably been in the lightest supply within years for this time of the year, advanced 25 to 50c and lambs gained 15 to 25c in value. Feeders show as much advance as fat classes. Some choice-fed wethers reached $5.10 toward week end and Montana grass wethers $5, the highest prices reached since July. Choice range ewes reached $4.60 and natives $4.75. A scarcity of fat sheep is indicated from now on and fewer fat range lambs are scheduled to arrive the balance of the western shipping season. Some "fed" western lambs are already being returned to the shambles. None of it appearing thus far has had enough feed and could not be sold to as good advantage as feeders fresh from the range. Traders fear that the high cost of grain will prompt the marketing of many sheep and lambs that have left central markets of late prematurely, especially when the weather turns bad. Best fat lambs are now selling at $7.40 to $7.50, the bulk at $6.90 to $7.35, with fair to choice feeding lambs going at $6.25 to $6.75.

Receipts of sheep at six western markets for the month of September reached the unprecedented September totals of 2,009,575 head, or 369,408 more than the same month last year. Both Chicago and Omaha set up new September records, and the Omaha supply was the largest ever received at that market. The big supply reduced the year's deficiency in sheep and lamb receipts for 9 months at six markets to 72,993 head. October promises to produce a lighter supply, however, than any October within the last three or four years, as the range movement out of Idaho and Nevada is now practically over and Wyoming and Montana will hold back more stock this fall to winter feed in the West than ever before. Receipts of sheep at six markts this week have decreased nearly 100,000 head from the big run of the week previous and another light supply is in sight for the coming week.

Worms Will Get Your Hogs If You Don't Let Me Kill The Worms

Fully nine-tenths of all hog losses are caused by worms. These parasites sap the very life blood of your hogs, rob them of nourishment, and so weaken them that they are easy victims of cholera or any other swine disease. Get your hogs worm-free and keep their digestive organs in proper working order and they will be **Cholera proof.**

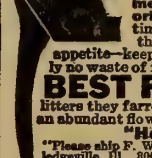
I'll Rid Your Hogs of Worms!

Feed **Columbian Stock Powders** to your hogs and inside of 12 hours you will **see** the dead worms that have been expelled. These powders are not a food but a highly efficient **medicated** preparation that not only **kills** but also **expels** all worms. These are the **original** Stock Powders. They have been on the market for the past 25 years and all that time they have been recognized as **best** by the largest, most progressive stock raisers of the country. They will put a speedy end to all digestive troubles in hogs, sharpen the appetite—keep the animals on their feed—so strengthen the digestive system that there is absolutely no waste of food—greatly shorten the fattening period with 25 per cent less feed.

BEST FOR BROOD SOWS Feed **Columbian Stock Powders** to your brood sows and see the strong thrifty litters they farrow. Keeps the sows in finest condition, strong, healthy, free from fever and insures an abundant flow of pure milk.

"Hogs Dying By Hundreds—COLUMBIAN Saved Ours"

"Please ship F. W. Diehl at Shannon, Ill., 500 lbs. Columbian Stock Powders in 250-lb. lots; and Geo. Diehl, Milledgeville, Ill., 300 lbs. in 100-lb. lots. Please RUSH the above orders as the hog cholera is something fierce all over the neighborhood. Hogs are sick and dying by hundreds. Ours were sick but Columbian saved them.
Yours truly, DIEHL BROS., Milledgeville, Ill.



90 Days Use Before You Pay a Cent

I don't want you to pay me a cent until I positively prove to you that **Columbian Stock Powders** are the quickest, surest and biggest profit makers you ever tried. Just mail coupon, stating how many hogs you are feeding and I'll make a free trial offer that gives you 90 days' feeding before paying a cent.

Columbian Self Feeder FREE!

Regular price is $5; but if you will write or mail the coupon at once, I will tell you how to get one **FREE.**

Free Book Most interesting and instructive book on stock raising ever published. Finely illustrated. Write for your free copy.

Agents Wanted—a few responsible farmers to represent me in every community. Big money and easy work. Get particulars.

Address, FRANK R. McDERMAND, Pres.
COLUMBIAN HOG & CATTLE POWDER CO.
1450 Genesee St., Dept. 2 Kansas City, Mo.

Columbian H & C Pwdr Co., Dept. 2 Kansas City, Mo.
Send me particulars of your "90 days before paying" offer. I am feeding.....hogs; .....sheep;.....cattle;.....horses.

Name.....

Address.....

ROOTING CURRANTS AND GOOSEBERRIES.

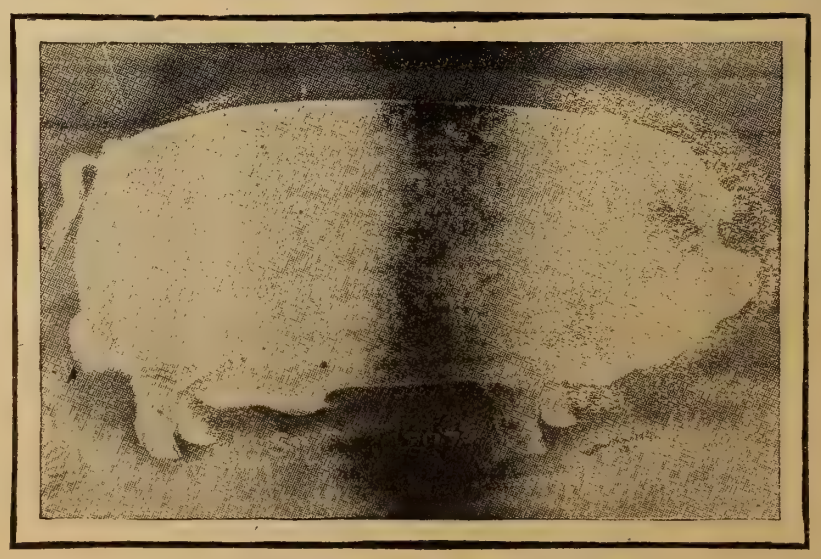
To the Editor of The Homestead:

I am classing these together, not because the treatment is the same, but because it is done in the fall, and we usually think of them together, somehow. The currant is one of the easiest fruits to propagate, and the hardest to get to produce, except in favored localities, especially south and west of the Missouri river. The gooseberry generally is a pretty good producer, easy to grow when once established, but it is difficult to grow from cuttings, though it starts more freely from layers, which is the method I am describing.

The currant should be propagated from cuttings, which can be taken at any time in the fall after the leaves fall off. Cut to six or eight inches in length, and set in rows eighteen inches apart, and two inches apart in the row. Give a good watering if it does not rain some soon after you set them unless the soil is pretty moist, for they should not get dry enough so the bark will wither any. Do not plant them when the soil is wet enough so it will cake, and press it firmly around the base of the cutting. As soon as severe cold sets in, mulch them, but not deep enough to prevent air reaching the cuttings freely, or the bark will rot on them. During the following summer cultivate thoroughly, and transplant to where you want them to grow, either the next fall, or following spring.

Gooseberries are best propagated from layering, which is done in the fall at almost any time. Clear out the leaves and trash from the base of the clump, and fill in with soil, packing it well, and drawing soil to the outside until you have a hill about six inches deep. As a usual thing the shoots will root well by the next fall, but I have known cases where there would not be a root. You can make the rooting more certain by partially severing the stems as low as possible before hilling, or you can beat them sharply, or cut a gash in the side, anything to make a wound, for roots will form at the wound readily. Be sure you have the wound covered with soil deep enough so it will be always moist.

These layers should be left until the following fall, when they can be removed and set where they are wanted. Cultivate well the first season they are planted out, but after that do not stir the ground in the spring until after the fruit has matured, or at least got pretty large, for any disturbance of the roots when fruit is setting will cause it to blast almost every time. A good cultivation after the fruit is gathered, and a heavy mulch applied will help them to make a good growth and insure a good crop the next year. L. H. Cobb.



A GRAND CHAMPION CHESTER WHITE.

The herd boar owned by **M. W. Young,** Ankeny, Iowa. See field note on page 34.

The Alart & McGuire Company has decided to continue its Wisconsin and Michigan pickling stations. The company is now operating in Wisconsin twenty-two salting stations as feeders to the Green Bay plant and employs from seventy-five to 100 people during the entire year. This force will be increased.

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Oct. 23, Seckington & Hilfiker, North English, Iowa.
Oct. 23, Williams Bros., Villisca, Iowa.
Oct. 24, Lingford & Reilly, St. Paul, Neb.
Oct. 27, C.W.Hutchins, Weeping Water, Neb.
Oct. 28, G. W. Sefrit, Lucas, Iowa.
Oct. 28, O. J. McCullough, Clarks, Neb.
Oct. 30, O. E. Wade, Rising City, Neb.
Nov. 4, C. W. Phillips, New Sharon, Ia.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams & Sons, Villisca, Iowa, (sale at Sciola, Iowa.)
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 11, R. C. Hollingshead, Russell, Iowa, sale at Charlton, Iowa.
Nov. 13, H. F. Dodds, Florence, Neb.
Nov. 14, E. V. Waugh, Greeley Center, Neb.
Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheydan, Iowa.
Jan. 24, Beall & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, W. E. Epley, Dilier, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 19. C. W. Phillips, New Sharon, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21. O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Feb. 27, Reubel Bros., Marathon, Iowa.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Oct. 22, Rude & Son, Moorhead, Iowa.
Oct. 24, Barker Bros & Crowell, Riverton, Iowa.
Oct. 25, McClelland & Pfander, Clarinda, Iowa.
Oct. 27, J. P. Peterson, Herman, Neb.
Oct. 29, Economy Stock Farm, Shenandoah, Iowa.
Nov. 5, S. W. Swanson, Stanton, Iowa, (sale at Red Oak).
Nov. 10, John T. Higgins, Abilene, Kan.
Nov. 12, W. M. Sells, Indianola, Iowa.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Wm. Zimmerman & Sons, Mc Nabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, Lake City, Ia.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Iowa.
Feb. 5, Swan & Ellis, Indianola, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Keonig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb.25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.
Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.

Chester White Swine.

Oct. 30, W. P. Doolittle, Woodland, Mo.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

Holstein-Friesian Cattle.

Oct. 21, Registered and high-grade, Henry C. Glissman, So. Omaha, Neb.
Oct. 21-22, Woodlawn Farm, Sterling, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Short-horn Cattle.

Oct. 21, C. J. C. Cold, Berlin, Iowa.
Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 9, H. H. Kuper, Humboldt, Neb.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. D. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.

Imported Shire Mares.

Dec. 11, Trumans Pioneer Stud Farm, Bushnell, Ill.

Hereford Cattle.

Oct. 21, C. A. Tow, Norway, Iowa.
Oct. 22, O. Harris & Sons, Harris, Mo.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9. B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Polled Durham Cattle.

Oct. 15, Walker Bros., Ord, Neb.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus.

Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.
Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

Percheron Horses.

Oct. 20, Robison Bros., Morton, Ill.
Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201 Washington Building, Madison, Wis.

FIELD NOTES.

Forty head of Hampshire boars are advertised for sale by Roy E. Fisher, Winside, Iowa, on page 44. Mention The Homestead when writing him.

On page 27 S. I. Ring, Center Point, Iowa, is offering thoroughbred Barred Plymouth Rock, White Leghorn, Rock Island Reds and one pheasant male for sale.

Thirty-four yearling and twenty registered Shropshire ram lambs are advertised for sale on page 29 of this issue by S. Bennington's Sons, Elkader, Iowa.

Good Poland China boars at from $20 to $45 are advertised for sale by A. W. Stewart, Harlan, Iowa, on page 47. Write him about these at once and mention The Homestead.

John C. Miller, Harlan, Iowa, offers a good bunch of Berkshire fall and spring boars at farmers' prices on page 44. Mention The Homestead when writing him about these boars.

Before selecting Chester White boars those that want to buy will do well to investigate the merits of the spring and fall boars advertised by Harry Hurless, Ogden, Iowa, on page 46.

Registered Shropshire rams of all ages and of the best of breeding are offered for sale by E. N. Sterner, Agency, Iowa, in his advertisement that appears on page 29 of this issue.

Jas. H. Heald, Tipton, Iowa, imports and breeds Shropshire sheep, and on page 29 announces that he has for sale both imported and home-bred rams. Write him for prices and descriptions.

Forty choice Hampshire boars of all ages and sired by his noted prize-winning boars, are advertised for sale by Roy E. Fisher, Winside, Neb. Read his advertisement on page 44 and mention The Homestead when writing him.

The Dandy Iowa gates are high carbon steel, triple galvanized, made in the strongest possible manner and are sold at lower prices than most gates. They are made in all sizes. Write for booklet of special prices. Address Iowa Gate Co., 9th St., Cedar Falls, Iowa. See page 6.

Guns and traps are sold at factory cost by E. W. Biggs & Company, whose advertisement appears on page 6. They also sell trappers' supplies and pay the highest prices for furs. Write for catalog and trapper's guide. Address E. W. Biggs & Co., 138 Biggs Bldg., Kansas City, Mo.

Trappers are advised that the Rogers Fur Company, advertised on page 17, are prepared to pay top prices for coon, mink, skunk, muskrat and other furs at highest prices. Price and shipping tags may be obtained on application to the Rogers Fur Co., 190 N. Main St., St. Louis, Mo.

This office is in receipt of a communication from G. A. Ford, Parker, S. D., advising us of his arrival by the steamer, Etonian, with a importation of forty head of Percheron and Belgian stallions. The consignment includes many prize winners and animals of excellent draft horse merit.

Every year the need of a farm scale becomes more and more apparent. A good, durable, accurate scale will save its price nearly every year on the farm. The McDonald pitless scale belongs to this class. It is advertised on page 15 and a descriptive circular and price list may be obtained by writing Moline Plow Co., Dept. 11, Moline, Ill.

There is and always has been a romance connected with the business of trapping. Now more than ever, we believe, there is pleasing profit in the business, and that in almost any territory it seems that fur-bearing animals are increasing. In practically all of the prairie country it is possible for any farm boy to catch enough by trapping in the winter time to more than equal the amount he has made in the summer time by work. Victor traps are recognized as the best to use. They are advertised on page 6 and manufacturers have prepared an important book on the subject of trapping which every farm boy should own. It is to be had without cost by sending to the Oneida Community, Ltd., Oneida, N. Y., 8 Kenwood Ave.

Henry H. Johnson, Avoca, Iowa, wants to sell one extra heavy-boned, big-type Poland China yearling boar sired by Chief Wonder. See advertisement on page 38.

Don't forget Blake's public sale of Poland China hogs at Dallas Center, Iowa, Monday, October 13th. It includes size and quality together with immunity from double treatment.

W. T. Barr, Ames, Iowa, advertises his Chester White herd on page 46. This is the same herd which last year made a record-breaking public sale of brood sows. The pigs offered for sale now carry the same blood as that offering.

On page 46 Mrs. W. E. Zimmerman, Neola, Iowa, announces that she has for sale a large number of Single Comb Buff Orpington hens and cockerels at reasonable prices. She has also mammoth Pekin ducks at very low figures.

The advertisement of John M. Hall, Williams, Iowa, appears on page 27 this issue. Readers wishing to purchase White Wyandotte cocks or cockerels should avail themselves of this offer at once, as Mr. Hall has only a few to spare.

Porter's growthy Duroc Jerseys are the kind that always please buyers. They have popular blood as well as popular quality, plenty of bone, size and finish. Write for prices to J. C. Porter, Ogden, Iowa. See advertisemetn on page 45.

Farmers who want to buy Duroc Jersey hogs or gilts will do well to consult the advertisement of L. L. Woods, Grinnell, Iowa, as it appears on page 44 of this paper. Mr. Woods has April pigs, thrifty, stretchy fellows that carry the best lines of breeding.

G. O. Satre, Jewell, Iowa, makes a change in his Chester White advertisement on page 38 which should interest prospective buyers. Mr. Satre has a choice lot of spring pigs for sale and is quoting reasonable prices on them. He has quality as well as blood lines in his herd.

In an advertisement on page 44 Edward Dooley, Selma, Iowa, advises readers of this paper that he has for sale Hampshire hogs of both sexes and that he wants to sell in particular one heavy-boned yearling boar that weighs 400 pounds. Write him for prices and descriptions.

We wish to call the attention of live stock men who contemplate the making of public sales to the advertisement of Col. S. S. Templeton, Monroe, Iowa. Colonel Templeton is a practical auctioneer, a graduate of a prominent school and will do good service for his patrons. He solicits dates. Address as above.

Grant Lynn, proprietor of the Evergreen Spruce herd of Duroc Jersey hogs at Spirit Lake, Iowa, advises us that he wishes temporarily to discontinue his advertisement because of the fact that he is giving his hogs the double treatment. After thirty days he will resume his announcement and offer immune hogs for sale.

That the Berkshires owned by M. A. O'Brien, Reedsville, Wis., are top notchers is verified by all those who see them. He has twenty-five spring pigs of which he is exceptionally proud, which he is offering for sale. His stock is large, heavy boned and smoothly fleshed and of the most popular prize-winning families.

Enterprise sausage-making machinery is advertised on page 24 and arguments offered showing that every farmer would profit by this machine. The manufacturers have prepared a new book of household receipts entitled "The Enterprising Housekeeper." It describes more than 200 tasty dishes. Every reader of this paper may secure it by sending four cents in stamps to the Enterprise Mfg. Co., Dept. 83, Philadelphia, Pa.

Fur-bearing animals have increased so rapidly that men and boys make a good deal of pocket money every winter by trapping. Those who contemplate doing so this winter should read the advertisement of F. C. Taylor & Company on page 6. This firm buys furs of all sorts. They are glad to send catalog, price list and book on trapping free to any reader of this paper. Address F. C. Taylor & Co., 125 Fur Exchange Bldg., St. Louis, Mo.

Manufacturers of the Letz feed mill have brought out a new and important device in connection with that grinder. It is now a self-sharpening grinder and has an immense capacity. It is economical to the last limit. The fact that it is a self-sharpening grinder is a guarantee that it will not need so much attention as grinders that do not possess this merit. A ten days' free trial is given. For further details write to the Letz Mfg. Co., 206 East Road, Crown Point, Ind. See page 8.

Holstein cattle and Lake Mills, speaking of the latter almost implies the former. The Lake Mills Sales Company have had a great share in establishing this reputation by their successful sales of Holstein cattle. On October 29, 1913, they hold their eighth semi-annual sale, and from the quality of the cattle entered it should be one of the most successful sales in the United States. Their entry requirements are very strict, in fact, too strict for many breeders, and an animal may be barred from the sale up to the time of entering the sales ring, if anything unfavorable has developed. It will pay lovers and breeders of Holstein cattle to attend this sale, for so uniformly good lot of cattle is seldom offered. Write Frank Fargo, Lake Mills, Wis., for a catalog of the entries. When writing kindly mention this paper.

The Monarch steel stump puller advertised on page 10 is guaranteed seven hundred horse power and pulls stumps up to seven feet in diameter. It is guaranteed for five years. Descriptive catalog and prices can be obtained by writing Zimmerman Steel Co., Lone Tree, Iowa.

Sherwin-Williams paints and varnishes are advertised on page 10. The particular excellent properties of these paints are fully described in a book entitled, "Paints and Varnishes for the Farm." It is mailed free to any one who will address Sherwin-Williams Co., 683 Canal Road, Cleveland, Ohio.

The use of storage tanks for water has become more and more advisable and the interest in the best tanks is growing. The American Ingot Iron rust resisting tank is built for rough usage. It is advertised on page 6. You can get a copy of catalog J-5 if you mention the name of your dealer, when writing Dixie Culvert & Metal Co., Middletown, Ohio.

B. R. Burt, in an advertisement on page 38 offers a number of first-class Chester White boars at reasonable prices. He has also a few gilts and some fall pigs. These pigs are all guaranteed to be right. They are strong, thrifty, in good condition and carry the best and most popular lines of breeding. Address inquiries to B. R. Burt, Coggon, Iowa.

The Witte sawrig illustrated in the advertisement on page 17 is wonderfully economical and easilly operated. As a wood saw it stands without a peer. Many purchasers have cleared from $5 to $10 per day profit. For five-year guarantee and special prices address Ed H. Witte, Witte Iron Works Co., 1506 Oakland Ave., Kansas City, Mo.

"The car that meets every demand," is the heading used in the advertisement of the Kissel Kar on page 16. The manufacturers believe it to be best adapted to the use on the farm. It is economical, is easily operated, is up to date and well made. They solicit the investigation of prospective buyers. For catalog address Kissel Motor Co., 305 Kissel Ave, Hartford, Wis.

The well-known firm of Duroc Jersey hog breeders, J. W. Troy & Bros., place an announcement on page 38 in which they inform our readers that they have for sale male pigs of February, March and April farrow. These are, of course, of popular lines of breeding and have the same excellence of quality that distinguish the Troy stock. Address inquiries to J. W. Troy & Bros., Rose Hill, Iowa.

Mrs. Will Michael, Selma, Iowa, in sending copy for her advertisements found on page 27, writes: "All stock offered are in good thrifty condition. My Single Comb Brown Leghorns are fine in shape and color and bred from large, selected hens for many years. My ducks are in full feather, large, true Indian Runner shape, and bred from a record strain of layers. All stock guaranteed as represented."

Port Huron Machinery Company makes some statements in their advertisement on page 9 that have reference to the Port Huron husker shredder and are offered as proofs of the immense value of that machine to farmers. The last paragraph of the advertisement offers to give a handsome watch fob and a one dollar bill to readers of this paper under certain conditions. For further particulars address Port Huron Mach. Co., Des Moines, or Minneapolis, Minn.

For winter wear nothing can excel the Lanpher Sheep-lined coat advertised on page 22. It affords warmth and comfort and withstands the rough usage to which the farm coat is necessarily subjected. The line of Lanpher goods also includes a full line of clothing of all sorts that are particularly adapted to the use of the farm. The Lanpher book of styles of the season for both men and women will be sent on request by Lanpher, Skinner & Co., St. Paul, Minn.

Karl Ehlers, Gretna, Neb., White Wyandotte fancier exclusively for the past eight years, has eighty-six choice one-year-old Wyandotte hens and five one-year-old cock birds related to his first-prize cock at the Nebraska State Fair, 1913, which he is offering for sale at prices named in his advertisement on page 27. He also has a large number of White Wyandotte cockerels which he will sell at $1 each. After November 1st the prices on these cockerels will be raised. Write him for any information desired.

Waukesha County (Wisconsin) one of the great dairy counties of the state, is also the home of many excellent herds of pure-bred cattle. Among these is the Ayrshire herd of Lewis Roberts & Sons, Waukesha, Wis. Their herd consists of over forty of these red and white beauties. There are two herd bulls in service, one of which is Duke of Spencer 10737, a fine type of the breed. He won second in the 1913 Wisconsin State Fair, being defeated only by Bergenoch Cavalier, the world's champion Ayrshire bull. He has not yet been defeated at any county fair where shown. His sire is King's Chief Hillsdale 9137, one of the leading bulls of the breed and his dam is Hillsdale Violet 19697, a cow of wonderful milking ability. Roberts' Cavalier, the other herd bull, is a son of Bergenoch Gay Cavilier 1981, the world's champion Aryshire bull, and imported recently from Scotland. His dam, Barcheskie Cora 276666 is also an imported animal. They maintain a fine show herd of eighteen animals, every one of which was tested for tuberculosis only a week before starting on the circuit. Jack Roberts, who was graduated from the University of Wis-

consin Agricultural short course in 1910, is the active member of the firm and expects to develop one of the greatest Aryshire herds in the middle West. For further information write to Lewis Roberts & Sons, Waukesha, Wis. When writing kindly mention this paper.

The advertisement of the Fairbanks-Morse portable engines on page 8 presents a little idea with reference to the production of power to various kinds of work on the farm. The Fairbanks-Morse may be operated with kerosene, gasoline or low-grade distillates. It is economical and is made in sizes from four to twenty-five horse power. Catalog FC 603 tells all about them and can be secured by addressing Fairbanks-Morse & Co., 900 S. Wabash Ave., Chicago, Ill.

W. J. Hartung, advertises his Oak Lawn Duroc Jersey hogs on page 38. At the present time he has fifty spring pigs, male and female, which he is offering at remarkably low prices. It goes without saying that the Hartung herd carries blood as good as the breed affords, because Mr. Hartung has always followed that plan. He guarantees everything to be as represented and is certain to please customers as he has always done in the past. He ships only the choice of his herd. Write to W. J. Hartung, Maxwell, Iowa.

Hansen gloves which are the subject of an announcement on page 15 are particularly adapted to the rough work of the farm, because they are made of the best leather obtainable, and thus afford double economy of long wear and hand insurance. A catalogue and price list which may be had without cost takes special pains to describe Hansen's Glad Hand, a high quality buckskin, strong and soft, and a standby from every point of quality and service. Send to O. C. Hansen Mfg. Co., 137 Detroit St., Milwaukee, Wis., for a book.

Majestic ranges are advertised on page 11. The engraving in the advertisement shows the handsome appearance of this range. The Majestic is a malleable, which insure the maximum of lasting quality. It will not break or rust out, joints are absolutely tight and the manner of construction insures best heating. It has a copper reservoir and other features to make it the best kind of a stove. A book that describes this stove to the last detail can be had by writing to the Majestic Mfg. Co., Dept. 30, St. Louis, Mo.

T. S. Simpson & Sons, who advertise Shetland ponies on page 42, inform us that they made unusual winnings with their ponies at the recent Wisconsin State Fair. At the Kentucky fair they took first and third on aged stallion, first on three-year-old stallion, second on two-year-old stallion and a whole string of ribbons on females. Their ponies are this week on exhibition at the Virginia State Fair held at Richmond. Both Shetland and Welch ponies are offered for sale and at reasonable prices. Address T. S. Simpson & Sons, Aurora, Ill.

J. J. Edgerton, What Cheer, Iowa, announces a closing out sale of his herds of Polled Durham cattle and Duroc Jersey hogs. The event will take place on Wednesday, October 15th, as per announcement on page 38 of this paper. In particular Mr. Edgerton calls the attention of our readers to the fact that the sale includes a yearling herd bull of unusual lines of breeding, and two herd boars whose blood lines are of the most popular sort. Note that trains will be met at Gibson, Iowa. Any further information may be obtained by writing to J. J. Edgerton, What Cheer, Iowa.

Roofing for the house or barn is one of the most compulsory subjects, because without a good water-tight roof, any such building is not performing the use for which it was built. The Genasco roofing advertisement on page 10 gives lasting protection to all buildings. The manufacturing is a peculiar one, because the employment of Trinidad Lake asphalt serves to keep life in the roof through all kinds of weather. It is very cheap and may be applied by anyone. Sample and other information may be secured by writing the Barber Asphalt Paving Co., Philadelphia, Pa.

The more general use of automobiles throughout the country is demanding urgently that those who operate them receive at least sufficient training to do so with safety to the passengers and to others who travel the same roads. Such training is provided by the automobile training school, an advertisement of which appears on page 48 of this paper. This school goes still further, however, in that it gives so thorough and complete instructions and experience as to fit the graduates for positions as repair men, salesmen, garage managers, demonstrators, drivers or tractor experts. When men of inteligence have completed the course of training provided by this school they are fitted to earn salaries ranging from $75 to $200 per month. The equipment of the school is complete. The building is big, modern, fire proof and complete in every sense. It contains cars ranging in cost from $700 to $10,000 each. There is a lecture room in which competent instructors explain in detail all of the principles of the work. Then there are practical experiments and trainings in every feature of automobile construction, repairing or operating. After the student has completed the work in all departments he is given driving lessons which consist of actual experience on the streets in and around Kansas City. These lessons are given under the direct supervision of instructors until such time as the student has become proficient. Diplomas are issued to those who complete the course in its entirety and only to those who have done their work with the proper degree of accuracy. At the present time the managers are making a special offer in which they give their tractor course free. Information concerning this special offer and a copy of the big free catalog may be obtained by filling out the coupon in the advertisement and forwarding it to Automobile Training School, 1052 Locust St., Kansas City, Mo. See page 48.

F. F. & V. G. Warner, Bloomfield, Iowa, advertise sheep and hogs on page 29 of this paper. In a note concerning their stock they say: "We have an extra fine lot of Polled Delaine Merino lambs for sale, also some good ewes. All are recorded and of the best breeding. The have long, fine fleeces and are very large. We have bred for Polled lambs for fifteen years and are now producing extra good ones. Our Poland China hogs are of a very prolific strain, have good, heavy bone and are of the best of breeding. They are sired by Warner's Look, he by Big Look 2d, and other noted sires. We have had no cholera in our county and our hogs are strong and vigorous. We can please the most exacting."

The Shamrock Stock Farm, Farmington, Iowa, is prepared to supply Chester White spring and fall pigs of either sex. Writing under recent date the proprietor says: "My herd is headed by St. Patrick 22353. His dam was Lady Perfection, a Hoover-bred hog that was an Iowa State Fair winner in 1911. My brood sows are direct descendants of Umpire 3d and Clark County Bell, which were both ribbon winners. These hogs have extra good backs, excellent heads and ears, good bone and strong feet. They are the kind that make big hogs. I have never lost a hog with cholera or any contagious disease. My hogs are gentle as kittens. They have the greatest prepotency and their produce are uniformly white, no matter what the color of the dams may be. I do not put stress on the great amount of fat carried by my hogs, but on their merit as breeders. I do not want them so fat as to injure their prolificness. I furnish pedigree recorded in the American Chester White Association with all pigs sold and furnish crate free. Visitors are always welcome at the Shamrock Farm." For prices and additional descriptions write to L. I. Handlon, R. F. D. 3, Farmington, Iowa. See page 46.

W. J. Bernd, New Richmond, Wis., is a breeder of Short-horn cattle and Poland China hogs. His cattle are second to none when it comes to breeding, for they carry the blood of some of the greatest individuals of the breed. His herd consists of seventy-five head of pure breds, headed by the bull, Highland Sultan, a son of Orange Sultan, which was sired by the world's famous Whitehall Sultan. His dam was Mars Missie, of the Mars strain. She sold for $1,000 when she carried this bull, and his sire sold for the same price. He has never been defeated at the county fairs where shown and his sire won third at the 1911 International. He is pure white in color, four years of age and weighs 2,300 pounds. Among the females are several which have given fifty pounds or more of milk per day. One of these is Fancy's Best, from White Fancy and sired by Rosebud, a champion bull. He has both pure Scotch and Scotch-top breeding. Another female is Lady Levell 4th that won second at the 1909 Wisconsin State Fair and third at the American Royal. Her sire was Prince Arthur, one of Wisconsin's famous Short-horn bulls. In Poland Chinas he has over 100 head headed by the famous big-type boar, Wonder of Maurs, of Iowa breeding. His grandsire won second at the Minnesota State Fair and although he weighed over 1,000 pounds was a remarkably smooth, fine quality animal. The herd traces mostly to the sow, Big Feeny, that won second at the Wisconsin and Minnesota State Fairs in 1908. She weighed 700 pounds and carried smooth, firm flesh. His fall boar, Jumbo Wonder, which is shown as a senior yearling, weighs between 500 and 600 pounds. His sire was Wonder and his dam was of Matchless breeding. One of his sows, Mrs. Perfection, won sweepstakes over five breeds at the Watertown, (Wisconsin) Fair. She farrowed seventeen pigs and raised twelve last spring. His other herd boar is Magnet. The full brother and full sister of his sire took both championships at the Wisconsin State Fair and first-prize herd. His own dam won third at Minnesota State Fair with Commodore Chief by Iowa Model and out of a dam by Muncie Chief. He also has a few by Col. Crimson Wonder by Smith's Crimson Wonder, out of a dam by Royal Colonel. Mr. Woods has been breeding Duroc Jerseys for a number of years and has been raising the kind that make good in the breeding pen. See page 44 and write him at once, mentioning The Homestead.

twenty-three in the ring. For further information write to W. J. Bernd, New Richmond, Wis. Kindly mention this paper when writing.

Some man who wants to buy some good registered Holstein-Friesians should go and see Sol Frank, Sioux City, Iowa. He has fourteen head of well-bred registered cows, heifers and young bulls and he wants to close them out, as he has not got room to keep them. Among the cows is a daughter of Korndyke Mercedes De Kol and a daughter of Maplecroft Twist De Kol, together with some very choice heifers and three young bulls. There is a bargain in this bunch of cattle. He wants to sell the whole lot and you will find these are bargains at the figure he is asking for them. When writing him kindly mention The Homestead.

An instance showing the extraordinary value of a real good brood sow is that of the Duroc Jersey sow, Crimson Duchess, owned by H. Gilbert, Perry, Iowa. This sow was bred by John Justice, Ankeny, Iowa, and farrowed March 30, 1908. Her sire was a son of that extraordinary hog, Crimson Wonder Again, and her dam a granddaughter of Ohio Chief. The dam of Crimson Duchess was a sixth-prize winner of the Iowa State Fair of 1907. Mr. Gilbert has kept accurate record of the produce of this sow. In nine litters she produced 125 pigs, ninety-nine of which were raised. Every one of these ninety-nine, so far as known, has been retained as a breeding animal, and they have been distributed to herds over a wide range of country. Last winter eleven of her gilts sold at a public sale at an average price of $51.25 each. Mr. Gilbert says Crimson Duchess is not a pretty sow as she is extremely long and if fattened would easily weigh 900 pounds.

L. L. Woods' Durocs.

L. L. Woods, Grinnell, Iowa, is offering for sale a fine lot of spring and fall Duroc Jersey boars sired by

NEXT WEEK'S SALE PROGRAM

Monday, October 13	Short-horns, S. F. Lockridge, Union Stock Yards, Chicago, Ill. Poland Chinas, R. R. Blake, Dallas Center, Iowa.
Tuesday, October 14	Hampshire Swine, Clayton Messenger, Keswick, Iowa. Short-horns, Thos. Stanton, Wheaton, Ill. Chester Whites, M. W. Young, Ankeny, Iowa.
Wednesday, October 15	Polland Durhams, Walker Bros., Ord, Neb. Short-horns, Walker Bros., Ord, Neb. Duroc Jerseys, H. F. Branson, West Branch, Iowa. Short-horns, C. J. McMaster, Altona, Ill.
Thursday, October 16	Polled Durhams, Theo Foss, Sterling, Neb. Short-horns, F. W. Akers, Gilman Iowa. Short-horns, R. W. Botts, Plymouth, Ill. Aberdeen Angus, John Cash, Jr., Williamsburg, Iowa. Poland Chinas, F. W. Akers, Gilman, Iowa. Duroc Jerseys, Theo Foss, Sterling, Neb.
Friday, October 17	Duroc Jerseys, Fred Swan, Missouri Valley, Iowa. Poland Chinas, Minnick & Nansel, Council Bluffs, Iowa.

Ruebel Bros.' Immune Boars.

A splendid lot of big-type Poland China boars are advertised for sale by Ruebel Bros., Marathon, Iowa, on page 47 and the beauty of it is, they are not only sired by some of the most noted boars of the breed, but they are good boars and they are immune. The boys write us and tell us they never had a better line up of boars than they are offering this fall and they would like to have Homestead readers who are going to want a boar to call and see them. The boys will treat you right on the boar question if you will only go and see them. They can fill your order no matter what you are looking for. Read their advertisement and when writing them kindly mention The Homestead.

J. D. Judge's Short-horn Sale.

On December 17th, J. D. Judge, Carroll, Iowa, will make a public sale of forty-five head of Scotch and Scotch topped Short-horns at his farm adjoining town, and he will put up one of the best offerings of cattle that he has ever listed for a sale since he has been in the business. The major portion of his offering will be Scotch cattle of the very best sorts, and many of the cows will sell with calves at foot. He is selling twelve head of young bulls in the sale, all of which are Scotch and nearly all are sired by his present herd bull, Sultan Standard, a bull that he secured from Frank Harding at a long price a few years ago. Mr. Judge is selling an unusually good bunch of Scotch bulls in this sale, and there are several that are good enough to lead any of our best herds. He is selling a splendid white bull by Sultan Standard that is an outstanding good bull, is bred in the purple, is a grand, good individual, and is just such a bull as breeders are looking for to put at the head of their herd. He is listing one of his present herd bulls, a big roan yearling that he secured from Mr. Kilgour to breed his Sultan Standard heifers to and he is a splendid bull. Then there are several others that are bred along the same lines and are the making of very promising bulls. The Judge sale will follow the C. A. Saunders Omaha sale, and parties can come direct from Omaha that night or the next morning. Drop Mr. Judge a card and have him place your name on his list for a catalog and kindly mention The Homestead when doing so.

Angus Cows for Sale.

If any of our readers are thinking of purchasing some good Aberdeen Angus cows and heifers we would suggest they write Chas. Escher & Son, Botna, Iowa. They have two car loads for sale, half of which have calves at foot. They also have thirty choice young bulls for sale, many of which will make good herd bulls. Write them or go and see these cattle. They have some splendid bargains to offer and you will find their prices are right. When writing them kindly mention The Homestead.

A Good Herd Boar for Sale.

Some of our substantial Poland China breeders who are looking for a good herd boar might be interested a splendid yearling that C. L. Thuirer, Fostoria, Iowa, is offering for sale. He is a son of Barker's Hadley, he by Hadley Golddust by Big Hadley. His dam is Thuirer's Sunshine by Orange Pride by Big Orange. He is an outstanding good one and he can be bought for $100. He is one of the best bargains we know of at the price and some wide-awake man who gets his order to Mr. Thuirer early will get a snap in this boar. Kindly mention The Homestead when writing him.

Ellerbrocks' Poland Boars.

On page 38 will be found the Poland China boar advertisement of Mrs. Peter Ellerboek & Sons, Sheldon, Iowa, who are offering thirty head of large, stretchy spring boars for sale and they have some good ones. Some of these are sired by old A Wonder, the boar that for several years stood at the head of their herd. Others are sired by Longfellow Again and Peter's Jumbo and they are out of the very best sows they have on their farm. They are pricing these boars at from $35 to $50 and a few choice ones for $60. However, you can get a good boar at a reasonable price and if you will only go and see these boars you will never leave the place without one. When writing them kindly mention The Homestead.

Honeywell's Berkshires and Jerseys.

One of the nicely bred herds of utility Berkshire swine in Nebraska is the herd owned by J. K. Honeywell, of Lincoln. Mr. Honeywell is a pioneer in the Berkshire business and it is but fitting that he should at this time have a nice lot of stuff bred mostly from stock of his own raising. The blood of prominent sires is to be found in liberal quantity in this herd and an item of much interest is that this stock may this year be purchased at as small or less cost as the ordinary kind usualy sells for. Homestead readers that need a good boar or that are looking for some good gilt stock may be supplied from this herd. Interested parties should address Mr. Honeywell at once. High class Jerseys are also bred on Honeywell farms and a few Jersey bulls are now for sale. When writing Mr. Honeywell address him at Lincoln, Neb. See the advertisement on page 38.

Prize-Winning Hampshire Boars.

C. S. Bratt, Araphoe, Neb., one of the best known stockmen of the western part of the state, starts an advertisement in this issue in which he offers some prize-winning Hampshire boars. Some of these boars were in the second-prize litter at the Nebraska State Fair, and were first-prize litter at Colorado State Fair. These pigs also won prizes in their single classes. They come of extra good breeding stock, are good in every respect and will now be sold at prices that represent only a part of their value. Mr. Bratt is extremely short on corn son, and in order to save a couple of months' feed he will cut the price in the middle. The man that needs a boar will find this the opportunity that he has been waiting for, and should write at once, as Mr. Bratt is positively going to sell them. Kindly mention this paper and address at once, C. S. Bratt, Arapahoe, Neb. See page 38.

Messenger's Grand Champion Hampshire Sale.

Clayton Messenger, Keswick, Iowa, will hold his first sale of Hampshire swine on October 14th. At that time he will sell seventy-five boars, about two-thirds of which will be sired by his undefeated grand champion, Messenger Boy, the boar that has won every grand championship at every state fair where shown during the years 1912-13. It is a record that few boars of any breed have been able to make. Not only has he proven a show boar, but as a sire he is making good. His sons and daughters were prominent winners at the leading state fairs this year and those who attend Mr. Messenger's sale and look over his offering are bound to say that Messenger Boy is one of the greatest sires of the breed. There will be two senior yearlings, three junior yearlings, twenty fall yearlings and about thirty-five spring pigs in the sale, all sired by Messenger Boy. Among the yearlings are some that have won first place at either the Iowa, Minnesota, South Dakota or Sioux City Fairs. It will be a great opportunity for someone to get a prize-winning herd boar sired by an undefeated grand champion. Mr. Messenger has made every effort to get together a high-class bunch of boars for this sale and he invites every man interested in this breed of swine to attend this sale and pay him a visit. No matter what kind of a herd boar you are looking for, you can find him among the large number in this offering. Send bids to Carlos C. Palmer,

Homestead representative, in care of Mr. Messenger and they will receive careful attention. See page 38 and write for catalog mentioning The Homestead.

Brouhard's Chester Whites.

In an advertisement on page 38 O. J. Brouhard asks the attention of those who are in the market for Chester White boars of spring farrow. Mr. Brouhard has but recently established his herd, but he very sensibly secured his start from the Dunbar and Parr herds. He took the choicest brooding sows to be found in it. One of these sows which is dam of several pigs which are to be sold, was winner of first prize as junior at the Iowa State Fair, 1912. Another was a winner at Sioux City. The sire of the pigs was also a ribbon winner. Mr. Brouhard's pigs have size, good bone and a lot of finish and should sell at remarkably low prices. Address O. J. Brouhard, Colo, Iowa.

Russell Offers Angus Bulls.

On page 38 Chas. M. Russell, Carroll, Iowa, advertises twenty head of good young Aberdeen Angus bulls for sale and these are sired by his noted Blackbird bull, Blackbird Barney, and Elfin of Homedale. These are Blackbirds, Trojan Ericas and the several other noted tribes that have helped make Angus history. Mr. Russell desires to sell these bulls and he is making the price on these where they will sell. He has bulls that will make splendid herd headers and he has some that will make good farmers' bulls. However, he wants to sell these bulls and as bulls are not very plentiful it behooves those of our readers who want bulls to go and see these at once and get one before they are all gone. When writing him kindly mention The Homestead.

Hanks & Bishop's Duroc Boars.

Hanks & Bishop, New London, Iowa, are advertising spring boars for sale on page 38. A representative of this paper recently visited the herd and found that they were in position to supply big, strong, heavy-boned boars at reasonable prices. These boars are sired by Proud Colonel, Wonder's Model, and Model Wonder, all three of which have been prize winners at the Iowa State Fair. Very few herds can boast of three boars at the head that are the equal as sires of the three boars at the head of Hanks & Bishop's herd. The young boars are in fine breeding condition and it will pay anyone interested to write these gentlemen for prices and descriptions before buying. When writing kindly mention The Homestead

Minnick & Nansel Sale.

On October 17th, Minnick & Nansel, will make a public sale of fifty head of large-type Poland Chinas at the Kiel barn, Council Bluffs, Iowa. There will be a good herd boar in this sale from the Minnick herd called Big John and he is a grandson of Big Orange. As Mr. Minnick has disposed of his farm he is therefore selling everything, including brood sows with litters, fall sows and spring gilts. Among these are sons and daughters of Big Victor, I Am Big Too, Big Tom, Big Omaha, Metal Top and other noted sires. Mr. Nansel has selected his very best spring boars and gilts, and he is selling some good ones. He is selling some very excellent spring boars that are sired by Big Tom and Big Omaha and some good things by a boar called Hadley N. It will be a splendid sale for those who are looking for some good bargains in Poland Chinas. Write Minnick & Nansel, Council Bluffs, Iowa, for catalog and mention The Homestead. Bids sent to Col. N. G. Kraschel will receive attention on day of sale. See page 39.

Walker Bros. & Branson Short-horn and Polled Durham Sale—Last Call.

With this issue of The Homestead we are calling attention for the last time to the sale of Polled Durham and Short-horn cattle that will be held by Walker Bros. and L. B. Branson, Ord, Neb., on October 15th. This sale will consist of the greatest lot of Polled Durham cattle that have ever been sold in the West and will also include the entire herd of cattle owned by L. P. Branson. Most of Mr. Branson's cattle are Short-horns, but he has a few Polled Durhams. Rarely such a great number of cattle are cataloged for an afternoon sale and it will probably mark the selling of many bargains. No less than thirteen bulls are listed for this sale, and among them are herd heading bulls for top herds. The bulls that have been in use in the Branson herd will be offered, as this entire herd will go without reserve of any kind. The young bulls offered from the Walker herd contain three or four as good bulls as have been sold in the West in some time. One of the best herd-heading prospects that we have seen sell in the Polled Durham line in a long time is a roan January bull by Cupbearer Prize, and his dam is Hero's Lady by the celebrated Roan Hero. This bull is well enough bred and good enough individually to please those looking for something first class. There are a couple of reds and another roan that are almost as good, that by some might be liked better, and they are all of good size for their ages and will mature into thick, beefy bulls with plenty of scale. The Polled Durham cows comprise one of the very best lots of cows that have been sold in the middle West in a long time. They are exceptionally thick and smooth, and among the number are many that have already done well in the show rings, and others that look pleasing possibilities. The Short-horn part of the sale comprises some Scotch cattle and a nice lot of extra thick Scotch topped stock, and all are regular and good breeders. Mr. Branson states that not a thing but the regular producing sort are listed, and practically everything of breeding age will have calves in the sale to show for them. We want to urge Homestead readers to attend this sale if possible. There is sure a lot of fine stuff to be offered, and there has never been a time in the history of this country when good cattle were really worth as much money to the buyer as they are right now. It is our firm conviction that these cattle will advance very materially within the next twelve months. If you have not the catalog, wire for one immediately, or at any rate plan to attend this sale. Parties that are unable to attend, may send their orders to J. C. Price of The Homestead and such commissions will be handled with the utmost care. If writing, mention The Homestead. See page 43.

Glissman's Holstein Sale.

On October 21st, at South Omaha, Neb., Henry C. Glissman, owner of the celebrated Rock Brook Holstein Farm, and one of the most noted authorities on dairy cattle in the West, will make a public sale of 140 head of Holstein-Friesian cows, heifers and young bulls. It is one of the greatest sales of its kind that has ever been offered here in the West and it is going to be a great place for farmers and dairymen to buy some splendid milk cows. He is selling sixty-five head of good cows that are coming fresh or will have calves at foot, and among these are some great milk cows that will be great money-makers for anybody who buys them. Quite a few of these cows will have calves at foot. There will also be fifty head of one and two-year-old heifers in the sale and these are going to make splendid milk and butter cows when matured. Then there will be fifteen head of heifer calves in the sale. Altogether it is the greatest sale of high-grade Holstein-Friesian cows and heifers that has ever been sold here in the West. He will also sell ten head of registered young bulls in this sale and these are splendid individuals and they are sired by some of the most noted bulls in this country. Another feature of the Glissman sale that will appeal to every man who is thinking of buying a cow and that is that these cattle are all tested by both state and federal authorities and they can be shipped into any state in the Union without any question. These cattle are all acclimated and home grown, and that is another feature that will appeal to all western buyers. It will be unquestionably the great dairy sale of the fall season in this western country, and if any of The Homestead readers are going to want some splendid milk cows they cannot afford to miss this sale. Write Henry C. Glissman, Station B, Omaha, Neb., for further particulars about this sale and kindly mention The Homestead. See page 13.

Rude & Son's Duroc Sale.

On October 22d, Rude & Son, Moorehead, Iowa, will make a public sale of forty head of Duroc Jersey boars and sows and they have a splendid lineup for the breeders in this sale. They are listing thirty-five head of boars for this sale and among this number are nine head of fall boars and two herd boars. One of these is the great Iowa Col., a son of the well-known Tippy Col., and he is out of a dam by the Great Orion Chief. This boar is one of the largest boars in the West and he is an excellent breeding boar. He was a third-prize winner at the Interstate Fair at Sioux City in 1912, and he has done a great work in the Rude herd in siring extreme size with plenty of bone. Quite a few of the spring boars that will be sold in this sale will be sired by him. Another richly bred boar they are selling is Rude's C. W. I. Am, a son of the old and original Crimson Wonder I Am, and out of Proud Helen, she by Proud Col. They have used this boar in their herd and he is a good breeder and somebody who wants a good Crimson Wonder boar will be pleased with this fellow. The only reason the Rudes are selling these two boars is because they have too many boars now on the place and as they have so much of the great of these they have decided to let them go. The nine fall boars they are offering are large, big-boned fellows and are sired by Iowa Col., I Am A Golden Model and Brilliant Wonder. The spring boars are sired by their great breeding boar, High Chief, and you will find these to be as good boars as you have ever seen coming from the Rude herd. This boar was a first-prize winner at the Iowa State Fair in 1912 and was a winner all around the circuit of state fairs. They bought him from the Waltemeyer Bros. after he had made a successful campaign, and he is now coming forward and demonstrating his ability as a most excellent breeding boar. Some of the best boar pigs in this sale will be sired by him. Among these are four that are out of Rude's Golden Queen, and she is a daughter of the well-known boar, Model Wonder. These are of the outstanding kind and they will make splendid herd headers. Three other splendid High Chief boars are out of a dam by Freed's Col., and two other good ones are out of a dam by Tientsin. They are listing four or five of their good sows that will sell with litters at side by their well-known herd boars. Write for their catalog at once and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Rude & Son will receive attention on day of sale. See page 36

J. R. Blackburn's Duroc Sale.

A really choice herd of Durocs are owned by J. R. Blackburn, Ord, Neb., and on November 5th a selected lot of boars from this herd will be sold at auction. Mr. Blackburn is newly located at Ord, but he is not a new man in the Duroc business, as he was formerly at Royal, Neb., and showed many prize winners including the champion boar at Sioux City in 1911 when Proud Col. won that honor. The herd today contains much of the blood of Proud Col.—a son, Crusader Col., having been much used. Proud Col. is a full brother to Freed's Col., the Iowa State Fair champion, and it might be assumed that championships sort of run in the family. Practically the entire spring pig crop is the get of Crusader Col., and we want to say that they are as uniform a lot of pigs as we have seen this season. They are all a bit late, but are nicely grown. There are some real heard heading boars among the thirty-five to be sold. A pair of boars from a sow by Uneeda Crimson Wonder are very choice. Some others from a sow by Golden Model 15th are about as good. Still some others of exceptional merit are from a daughter of Wallace's Wonder. Sows by Queen's Wonder, the O. G. Smith boar, Red Chief Wonder, Belle's Crimson Wonder, Col. Tippy, Improver's Best and Defiance, all have litters and among them are many choice ones. Readers of The Homestead that will be in the market for a good boar should keep this sale in mind. The sale comes at a time when those that will need a boar will have immediate use for him. Keep this sale date in mind and if interested send name today to Mr. Blackburn that he may forward a catalog to you as soon as off the press. When writing kindly mention The Homestead.

Of Interest to Trappers.

With this issue of The Homestead the Lincoln Hide & Fur Co., 1014 Q St., Lincoln, Neb., are starting an advertisement that is particuluarly interesting to the farm boy that would like to earn a little extra money, or to the man that makes the winter trapping of fur-bearing animals a business. This company is one of the largest and best known anywhere and their scale of grading and prices have brought them thousands of satisfied customers each season. These gentlemen are prepared to pay the highest prices for all sorts of furs and in addition they handle all other kinds of hides. They will tan and make up into robes or coats all kinds of hides, and their prices are as low as the lowest and the quality of workmanship first class. Kindly notice the advertisement of this company that appears on page 12, and be sure and send for their price list and shipping tags without delay. When writing address the Lincoln Hide & Fur Co., 1014 Q St., Lincoln, Neb.

Akers' Poland China and Short-horn Dispersion.

F. W. Akers, Laurel, Iowa, will disperse his herds of Short-horn cattle and Poland China hogs on October 16th. The sale will take place in Gilman, Iowa. Mr. Akers has sold his farm which makes it necessary for him to dispose of his pure-bred herds. Forty Short-horns and fifty Poland Chinas make up the offering. There will be included in the Short-horns the herd bull Baron Surmise, three bull calves and the balance are females. Baron Surmise is sired by Gloster Baron and out of a Secret cow by Bapton Admiral. All of the cows of breeding age will have calves at foot or be bred to Baron Surmise. Pride's Lady is a good eight-year-old red cow sired by Baron Kear 2d and comes from the Queen of Beauty family that have done so much good in the herd of Owens Bros. Two of the young bulls in the sale will be about twelve months of age and both are sired by Baron Surmise. One of them is a Lavender and the other a Queen of Beauty. Rosebud 7th is a good three-year-old heifer sired by Choice of Archers and out of a Rose of Autumn cow by Peerless Archer. Autumn Violet 5th is an extra good two-year-old heifer sired by Baron Surmise and comes from the Autumn Lady family. Beauty 2d is a three-year-old Queen of Beauty sired by Cumberland Brough. The Poland Chinas consist of five brood sows, fall yearlings and spring boars and gilts. Mr. Akers' Poland Chinas have been the useful kind, having lots of size and bone and are bred along big type lines. See page 34 and write Mr. Akers for a catalog kindly mentioning The Homestead.

Burgus Poland Chinas.

Harry E. Burgus, Osceola, Iowa, makes his initial bid for patronage as a breeder of Poland China hogs in an advertisement on page 38 of this paper Mr. Burgus is a young breeder, but he has started with stock of a popular class and is adopting plans of sale that are certainly out of the ordinary. The pigs which he offers are by Big Spot, he is a grandson of the noted A Wonder, and their dams are of equally popular Mastodon strains. Big Spot weighed 800 pounds as a two year old and the brood sows were equally notable because of their size. Do not fail to read the remarkable proposition made in his advertisement. Additional particulars may be learned by writing to H. E. Burgus, Route 6, Osceola, Iowa.

Blake's Last Call.

In previous issues of this paper we have gone somewhat into detail with reference to the blood lines of the offering of forty-five head of Poland China hogs to be sold at Mr. Blake's farm near Dallas Center, Iowa, Monday, October 13th. At this time we wish only to add that the consignment is a worthy one from every point of view. Its usefulness is unquestioned, blood lines are satisfactory and immunity from disease has been provided through early treatment by the simultaneous method. Catalogs may yet be obtained by writing to R. R. Blake, Dallas Center, Iowa. Readers of this paper who are unable to attend may forward bids to C. C. Carlin, care of Mr. Blake, and they will be given unusual attention.

Pelzer's Poland China Sale.

On Saturday, October 11th, at Atlantic, Iowa, Frank Pelzer will make his annual fall sale of big-type Poland China boars and sows and he is selling one of his characteristic offerings, and those who know Frank, know that this means that he is selling some good ones. He is selling fifteen large, rugged, fall boars, about as good as we have seen in our rounds this fall. When it comes to size he has them big enough for anybody. These fall boars are all sired by Tom Keene, a son of the Nebraska prize-winning boar, Big Tom, and quite a few of them are out of daughters of old Sampson, a boar that practically made the Pelzer herd. He has a great line up of spring boars and these are sired by his new boar, Orange A., one of the greatest living sons of the noted Big Orange. He is also selling some splendid sows in this sale. The sale will be held right in town at the Swab Feed Yards, and good railroad connections can be had from any direction. Remember this sale will be held on Saturday of this week so make it a point to go. It will be an excellent place to buy your boar or a few sows.

Williams Bros.' Great Poland Sale.

If you want to see a great offering of well-bred Poland China boars and sows, the thing you will have to do is to go to the sale of Williams Bros., at Villisca, Iowa, on October 23d. These boys have lined up a great offering for this sale and they are the pick of over 300 head that they have now on the farm. They are cataloging forty boars and ten sows in this sale and when you consider the size and the quality of their offering you will admit there is no better than they will sell at this time. They are selling twenty-five head of boars in this sale that are sired by their great hog Pawnee Nelson, and the breeder or the farmer that cannot get a herd boar out of this bunch is indeed hard to suit. They also sell quite a number by their other big boars, Big Sampson and A Jumbo, and there are some very attractive boars in this bunch. They will sell three or four spring gilts, three aged sows and four yearling sows, and these are the pick of the bunch. We mean by this that these sows and gilts are among the very best they have and they would be a credit to any herd, we care not where they go. The yearling sows are sired by Bib Sampson, Pawnee Nelson and one by A Jumbo. The gilts they have selected for this occasion are all daughters of Pawnee Nelson, and it is needless for us to say they are good ones. There will be six boars in the sale that are sired by Big Sampson, a few by A Jumbo and the remainder will be sired by Pawnee Nelson. It will be to all intents and purposes practically a Pawnee Nelson sale. In other words there will be about twenty-five head of Pawnee Nelson boars in the sale. Among the best of these will be five boars out of Villisca Belle 2d. Three of these are very choice, and any one of these will make splendid herd boars. Two very thick, large, spring boars are out of Nodaway Belle 2d and two very choice boars and one gilt are out of a sow called Lady Fashion. All of these are extra good and no man will go wrong that buys any one of these. Some other good Pawnee Nelson spring boars are out of Sweet Look and Monarch Lady, two of the best sows they have had in the herd. The boys are certainly putting up a great offering and we will stand by everything we have said for it and when the buyers go to their sale and see their line up for this sale they will agree with us that it is all that we have said it is. There may be some larger herds, but there are no better herds, and theirs is as large as any of them. These boys can trot out for you some of the largest and best sows you ever saw, and while they do not do a great deal of talking—possibly not enough

CONGRATULATIONS ON RESULTS OF EFFICIENCY

FRANK S. WEST & SON are importers and breeders of Percheron and Belgian horses at Wood River, Neb. They advertised in The Homestead. They were pleased. This is what they wrote: "We wish to congratulate you on the results that your paper attains, and also to compliment the field man who covers this territory." The same service can be secured by other reputable breeders of good stock. Write for rates.

HOMESTEAD CO. - - DES MOINES, IOWA

for their own good—they nevertheless have the goods to show, and they will show you one of the best offerings you have seen this fall. We, therefore, urge you to attend their sale if you are going to want a right good boar or a few good sows. Write for their great catalog at once and kindly mention The Homestead. M. T. White will represent The Homestead at their sale and will look after any bids sent in his care.

Branson's Duroc Sale.

H. I. Branson, West Branch, Iowa, will hold a sale of Duroc Jerseys at his farm October 15th. He will sell fifty head, consisting of twenty-five spring boars, fifteen spring gilts and ten spring and fall yearling sows. The entire herd has been vaccinated with the double treatment and, therefore, is immune from cholera. The spring pigs are nearly all by Branson's Golden Model by Golden Model 2d and out of Miss Wonder, making him a full brother to Blue Ribbon Model, the first prize pig at the Iowa and Nebraska State Fairs in 1911. There will be five fall sows sired by Wilson's Defender, a full brother to Mr. Browning's noted Disturber. There will be five fall sows sired by Wilson's Defender, a full brother to Mr. Browning's noted Disturber. There will also be three fall sows sired by H. I.'s Model, a grandson of Crimson Wonder Again. Two yearling sows will be sired by Beachy Commodore. The spring pigs have plenty of size and are well grown. They are just the kind that farmers and breeders are looking for. Carlos C. Palmer, Homestead representative, will attend the sale and care for any bids sent in his care. See page 35 and write for a catalog mentioning The Homestead.

Cold's Short-horn Dispersion Sale.

C. J. C. Cold, Berlin, Iowa, will close out his entire herd of Scotch and Scotch topped Short-horn cattle at the farm on October 21st. Mr. Cold has sold his farm, which necessitates his dispersing his Short-horns. He will sell forty-five head, consisting of ten bulls and thirty-five females. There will be sixteen cows, either with calves at foot or safe in calf, and a fine bunch of yearling and two-year-old heifers. His four-year-old herd bull, Royal Patience by Keystone and out of Imp. Patience, is a good red bull that has been used in the herd and has proven a good breeding bull. Roan Marshal is a good yearling sired by Perfection Marshal and traces to Imp. Dalmeny Princess. These two bulls will be sold and the cows will either halve calves at foot or be safe in calf to them. Lady Lavender is a seven-year-old Lavender cow sired by Ringmaster that has proven an excellent investment for Mr. Cold. Lavender Lassie is an excellent two-year-old heifer out of Lady Lavender and is sired by Challenge Mysie. There will also be a good yearling heifer and a good heifer calf out of Lady Lavender sired by Royal Patience. Faith is a good cow of the Gwendoline family sired by Advertiser. Helen of Center is a good eight-year-old cow sired by Golden Diamond and her grandam is the imported cow, Lady Helen. There will be several cows in the sale sired by Fancy's Choice. This sale will afford an opportunity to secure good, well-bred cattle in breeding condition at conservative prices. Mention The Homestead when writing for a catalog and arrange to attend the sale. See page 36.

Pfander & McClelland's Sale.

On Saturday, October 25th, at Clarinda, Iowa, Pfander & McClelland will make a public sale of forty-five head of their big, stretchy Duroc Jerseys, and they are certainly selling a splendid offering this year. They are selling three excellent fall boars, a lot of good spring boars, some good sows with litters and some very excellent spring gilts. These breeders have at the head of their herd the great boar, Golden Col., and he is not only one of the largest boars in the state and the West, but he is also one of the very best breeding boars we know of anywhere. He has done wonders in these two herds and they are selling some things in this sale that are sired by this boar that would be a credit to any herd in the land. There will be three head of fall boars in this sale, all sired by Golden Col. These are all good boars, but one of them is better than the rest and this boar is one of the largest, meliowest and best herd-boar propositions that we have seen this fall among all of the fall boars we have looked at. Now, this is a statement that we mean to back up on the day of the sale, and those who go after him will say the same. The spring boars are sired by Golden Col., Big Col., Critic B., Crimson Col., Queen's Col., and a son of Lahr's Col. There are seven Big Col. spring boars in the sale out of a daughter of Special Jr., and a Belle's Echo sow, and they are quite good. Three Crimson Col. boars out of a Col. Gano sow are all right. Six boars sired by Golden Col. out of Mabel Gano, their well-known Col. Gano sow, are among the very best things they will offer. This is an April litter, but they are far better than the average March litter that we see in many of the sales. Another splendid spring boar by Golden Col. is out of a Medoc Echo sow and another good one is out of a sow called Crimson Climax. Four sisters of this last pig go and they are all good. Three extra good Golden Col. boars are out of Lady Echo and these are strictly choice boars. These breeders are selling some splendid fall sows in this sale sired by Golden Col., also some good sows with litters, and a July yearling show sow by Golden Col., that they won first prize on at the county fair. Size is one of the characteristic things of their herd and they are selling spring boars in this sale that are just as large as you will find anywhere. It will, therefore, be a good place for you to go after your boar. Write for their catalog and mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of the above breeders will receive attention on day of sale. See page 37.

Wigstone Bros.' Last Call.

On Saturday, October 11th, Wigstone Bros. will make their annual fall sale of large-type Poland China boars and sows at Red Oak, Iowa, and this will be an offering that any of the breeders will look up to as an unusually good one. They are selling some grand good spring boars in this sale and they are going to be as large as you will find them in any sale this fall. They are also selling a grand good lot of sows and no sale offering will have any better this year. Make it a point to be at their sale at Red Oak, Iowa, Saturday October 11th, and if you are going to want a big boar or some choice sows they will have them for you in this sale. M. T. White will represent The Homestead at their sale.

Some Sure Big Poland Chinas.

Orville O. Jones, York, Neb., is the owner of the great Poland China boar, Jumbo the Great, and a few days ago he was placed on the scale in really light flesh and weighed 820 pounds. This boar would weigh in good breeding flesh an easy 1,000, and could be fitted away beyond that weight. He is sure some big hog, and a mighty good one. Big King, the yearling boar, weighed 620 and looks like as big a boar as Jumbo the Great at the same age. These boars are the kind to tie to, and a boar sired by either of them will do much for the Poland China herd of the average breeder. Mr. Jones has some choice spring boars by either sire for sale. They have been given the double serum treatment and are immune. There are two boars here that are full brothers to Melbourne Jumbe, the boar that is making such a hit in Kansas, and these look as good as he did at the same age. Mr. Jones also has some Short-horn bulls for sale and some of the most choicely bred Barred Rock cockerels. When writing kindly mention The Homestead. See the advertisement on page 47.

Harris' Model Hereford Sale.

The sale of thirty bulls and forty females on October 22d, from the model herd of Hereford cattle owned by O. Harris & Sons, Harris, Mo., is a sale that everyone desiring to purchase a herd bull, a very desirable stock bull, or choice young females in calf to the champion bulls, Repeater and Gay Lad 6th and their sons, should arrange to attend. Harris & Sons have selected the very top bulls of their ages for this sale, they also selected the top two-year-old heifers and are giving the purchaser the benefit of the best they produce. Those desiring show material in either bulls or females will not be disappointed in those Harris & Sons will sell. It will be an opportunity unexcelled to secure young females with all their lives of usefulness before them. They also will produce calves that are brothers and sisters to the young things on which Harris & Sons have this year won so many premiums in class, in young herd, calf herd, get of sire and produce of cow. A number are in calf to Repeater, sire of the yearling bull, Repeater 7th, that is winning in class and being made champion at every show where shown. Others are in calf to Gay Lad 6th, also a champion and sire of a large number of the show herd. Special attention is directed to Gay Lad 9th, Gay Lad 12th, Gay Lad 13th, Repeater 12th and Repeater 20th, as they are show bulls as well as breeding bulls. A January bull calf by Gay Lad should be appreciated and it is questioned if a better junior has been produced in the herd this year. There are a dozen youngsters just rounding one year of age that will furnish ample opportunity for selection from a string of all good ones. These are by the champions, Repeater, Gay Lad 6th and Prince Perfection, the undefeated three year old. There are also listed a most desirable string of eighteen-month-old bulls that are valuable stock bulls. The great string of two-year-old heifers is where those looking for money-making propositions should land. The calves they are carrying will at weaning time enable the purchaser to show handsome profits on their investment and as they are bred right who can tell but that a future champion will be found among them? Harris & Sons never before have parted with so uniform and good a string of females and they should be appreciated. The catalog tells the complete story of the breeding and the sale. Send for it now and kindly mention this paper. See page 39.

Henry Beck's Great Sale of Draft Horses, Jacks and Jennets.

We wish to call attention to the sale of draft stallions and mares and mammoth jacks and jennets that will be sold by Henry Beck, Litchfield, Neb., at Loup City, Neb., October 23d. This sale will consist of a choice lot of young stallions and some excellent young mares, also a few mares of producing ages that have raised colts the past season. The leading draft breeds will be represented, and those looking for big, rugged stock will be able to find them here. The imported stock are leaders of their different breeds and the home-raised stock have been grown in one of the best horse-raising sections of the country. The fact that these horses have been grown in the uplands of north central Nebraska, where the native grasses are regarded as the very best anywhere for horse growing, and the fact that they have been grown in the open will add much to their value as breeders. The jacks and jennets are all of mammoth breeding and many of them are extra big. They have been money-makers for Mr. Beck, and they should prove profitable for buyers. Mr. Beck knows well the value of this stock, but he raises them to sell and that is why they are in this sale. Interested parties will be able to get further information concerning this stock by writing Mr. Beck at once. Address Henry Beck, Litchfield, Neb., and mention The Homestead when you write. See page 35.

Four of the good brood mares included in the Robison Bros. sale of Percherons at Morton, Ill., Monday, October 20th. See advertisement on page 40.

A Grand Champion Chester White.

The illustration of St. John on page 30 presents the artist's idea of the grand champion Chester White hog at the head of the herd of M. W. Young, of Akeny, Iowa. St. John was a grand champion at the Minnesota State Fair of 1912, junior champion at the Wisconsin and Illinois fairs the same year. The picture shows him in his show-yard bloom. Today, while he has gained in more mature form, his proportions are just as good and his general appearance just as attractive. St. John is the son of St. Elmo, a hog which had the honor of winning grand championship at the Iowa State Fair when he was under six months old. This was an unusual performance and one which very seldom takes place, and then only when the pig shows more than remarkable breed characteristics and uniform excellence. The particular interest invested in St. John at the present time is the fact that on Tuesday, October 14th, Mr. Young's public sale will include a large number of sons and daughters of this hog. In previous issues we have gone somewhat into detail with reference to the breeding of this consignment. At the present time

Williams Bros.' Sale

Large-Type Poland Chinas

40 Boars, 10 Sows

Villisca, Iowa, October 23, 1913

WE are selling 25 head of boars sired by our great PAWNEE NELSON, regarded as one of the greatest breeding boars now living. We are also selling some splendid boars sired by **Big Sampson** and **A Jumbo.** We are selling some of the very best aged sows, yearling sows and spring gilts that we have ever offered from our herd. **This offering is the select of over 300 head now on the farm.** Write for our great catalog at once and mention The Homestead. Address

Williams Bros. - Villisca, Iowa

H. S. Duncan, Auctioneer — M. T. White, Field Man for Homestead

CLOSING OUT SALE

40 SHORT-HORNS---40

AND

50 POLAND CHINAS---50

at Gilman, Iowa, Oct. 16, 1913

CATTLE straight Scotch and Scotch topped. Baron Surmise 299827, one of the best breeding bulls in the state included in the sale. Some good young herd bulls. The hogs are all double treated and CHOLERA IMMUNE. Herd sows, Fall yearlings and spring pigs all go. No better Big Type breeding. Get the catalog.

F. W. AKERS - - LAUREL, IOWA

J. L. McILRATH, Auctioneer

PRIZE-WINNING DUROCS AT AUCTION

From the Herd of Danford & Dewhurst at

Ord, Nebraska, Tuesday, Oct. 14, '13

THE sale offering will be strong in the blood of Dusty Critic 2d the sire of the 1912 champion, Critic B. Also boars by Cedar Grove Clif by the first prize Lincoln Chief. This herd won four champions, seven firsts, seven seconds and three thirds at the Kansas State Fair this season. We will offer some mighty high-class boars in this sale. Plan to be on hand. Address for catalog

B. F. DANFORD - - - - - ORD, NEBRASKA

BECK'S GREAT SALE

DRAFT STALLIONS AND MARES

MAMMOTH JACKS AND JENNETS

WILL BE HELD IN SALE PAVILION IN

Loup City, Neb., Thursday, Oct. 23

IN THIS sale will be offered one of the greatest lots of useful, money-making draft stallions and mares and Mammoth jacks and jennets that have gone through a sale in the West in years. The stallions and mares consist of imported and home-bred stock, and are of good ages and good individuality, as well as good pedigree. They are in shape to make money for the buyers. The home-grown stock are the big-boned, rugged sort that positively make good. They have been raised in the open in what is probably the best horse-growing section of the entire country. The jacks and jennets are equally well grown and developed. They come of excellent stock and are big and heavy boned. The sale will be held in Loup City and may be reached from the Burlington and Union Pacific railroads. Make your plans to be on hand and come early. Col. Z. S. Branson, auctioneer. Mention The Homestead and write for further information to

HENRY BECK, LITCHFIELD, NEB.

we can only urge our readers to attend the sale because it contains Chester Whites that are good enough for anybody's foundation material. Catalogs may yet be obtained by writing to M. W. Young, Ankeny, Iowa.

Calkins' Immune Duroc Boars.

In a recent letter from E. A. Calkins, Ruthven, Iowa, he says: "I am writing you to say I had my whole herd vaccinated with the simultaneous method in August and they have done well and I am now booking orders for shipment of some of the best spring boars I have ever raised. I also have some good fall boars and they are well bred and are doing well. You can just say to Homestead readers that my boars are all immune and that I have some of the best blood known to the breed. I have boars that are sired by Prince The Cols., Freed's Col., Volunteer, Wonderful Crimson Again, Model Advancer, Dusty Wonder, Royal Col., and Wonderful Crimson Lad, and out of daughters of Prince of Cols., Chief's Col., Freed's Col., Crimson Wonder I Am, B. & C.'s Col., Superba, Shafer's Col., King The Col., and Model Advancer. I am offering these boars at from $25 to $50 and I know that better bargains cannot be offered elsewhere when you consider the quality and the breeding of the boars that I am offering." Write Mr. Calkins at once and have him book your order for one of these immune boars. See page 38.

Hancher's Immune Boars.

On page 38 we begin the Poland China boar advertisement of that well-known breeder, M. P. Hancher, Rolfe, Iowa, who now offers fifty head of big, stretchy, big-boned, immune spring boars. These boars are right to go into any herd, as they have been vaccinated since June and are right to go into any herd, notwithstanding disease has been there before. Just recently Mr. Benson came down from Sheldon and purchased a boar and notwithstanding he had trouble in his herd he took this boar home and he went right through without a bobble. We therefore say when you buy one of these Hancher boars you can feel that you have an immune hog and it does not make any difference where you place him. These boars are sired by his noted old 1,000-pound hog, Smooth Wonder 2d, one of the most famous sires today in the West. Then he has some splendid boars by the Nebraska State Fair grand champion boar, Chief Again Price, Chief Price Jr., Long Wonder and Long Price. Among these boars are many indeed that will make excellent herd boars when grown out and they now show every promise of making good herd headers. He has two splendid Smooth Wonder 2d boars out of Long Molly, one of the best sows he has in the herd. These are March boars and are very choice. Three by Chief Again Price out of Model Wonder, she by Smooth Wonder 2d, are all good. These boars are unusually smooth, stretchy, good boars and are evenly balanced. They have every reason to make herd boars that will command attention later on. A right good pig by Chief Price Again is out of Long Molly 2d, and another good one by the same sire is out of Price Model 3d. One of his choicest Smooth Wonder 2d boars is out of Long Susie by Iowa Lad and he was by old Pawnee Lad. There are a lot of others that are or will be just as good and if you want a boar now is a splendid time to get one. He is pricing these boars at from $30 to $50 just to move them. Write him your order and send him a draft for one of these boars and leave it to him to do the selecting. He will also sell Chief Price Jr., his 900-pound herd boar, as he can spare him and he is not only a large hog, but he is a good one and an excellent breeder. You will be satisfied if you do and he will send you a good one. Kindly mention The Homestead when writing Mr. Hancher.

Roup's Tamworths.

C. C. Roup, the veteran breeder of Tamworth swine, Kalona, Iowa, is advertising for sale boars and gilts of his favorite breed. The boars and gilts are of March and April farrow and sired by Thorndale Jim 3d and Knoll Slope Delmar, the former being a prize winner and a grandson of the noted boar, Hudson 1562. The latter boar is a descendant of Quick Fall Pride and is an excellent individual. The aged brood sows in Mr. Roup's herd need no introduction to American Tamworth breeders. Knowle Sultana 6th has a litter sired by Delmar. Knoll Slope Belfast 2d has a litter of thirteen by Thorndale Jim. Knoll Slope Sultana, Miss Bliss and Knoll Slope Empress are sows of proven worth. The herd is immune from hog cholera, having been vaccinated September 3d with the simultaneous treatment. Mr. Roup believes from actual experience that this treatment is absolutely reliable. See page 38 and write him your wants, mentioning The Homestead.

Halford's Big-Type Boars.

On page 38 we begin the advertisement of R. W. Halford, Manning, Iowa, who now offers twenty head of his great big Poland China fall and spring boars for sale and he is offering some very good ones. Fifteen of these are fall boars and five are spring boars. They are sired by his great show and breeding boar, Mabel's Wonder, a boar that was shown at the Iowa and Nebraska State Fairs and he was the champion boar at the latter show. He has been siring a lot of good stuff and Mr. Halford has some very excellent boars for sale that are sired by him. The others are sired by Long Jumbo and Chief Price 2d, and they are out of dams by Long Wonder, Long Chief and Big Chief. These boars are now ready to ship at any time and he has quite a number that are good enough to head good herds. He is making reasonable prices on these as he wants to move them, and he will be pleased to have Homestead readers write him about them or he would rather that they call and see them and make their own selection. Mr. Halford says he can certainly suit boar buyers this year, both in price and quality. When writing him kindly mention The Homestead.

Smith & Heisserer Short-horn Offering.

Smith & Heisserer, Oran, Mo., will sell fifteen head of Scotch Short-horn cattle in the sale with Thos. Stanton at Wheaton, Ill., Tuesday, October 14th. These cattle were selected regardless of cost by Mr. Heisserer as foundation stock for a herd, but owing to a dissolution of the partnership it has been decided to sell the cattle. Regarding these cattle Mr. Heisserer, who is a reliable and conservative gentleman, writes: "We are listing some mighty good cattle in the sale. However, they are not in the highest condition, in fact, we have not fitted them any, and whatever flesh they are carrying is pasture only. Shadewell Golddrop is a red cow with a heifer calf at foot and barn lots full of such individuals are not found. She is a good one, thick and low to the ground and worthy of praise. Roan Lass is another good one, coming three years old, and due to calve in November to the service of Brawith Baron. This cow will amply bear out any statement that may be made regarding her. Missie Valentine is a roan cow, very large and roomy, and the kind that are only parted with in dispersion sales. She has a heifer calf at foot. Lady Martha is a very good individual, and has a heifer calf at foot that is a show proposition. Augusta 115th has a heifer calf at foot by Silverdale, which is certainly sufficient endorsement. Sweet Violet is a roan, and has a heifer calf at foot. Too much cannot be said for her. No calf can take all her milk at a reasonable age, and she is good otherwise. She will have two calves in the sale, one of October 20, 1912, and one at foot of September 2, 1913. This should speak for her as a breeder. Villa Grove Beauty is a good individual, and will weigh a ton in good flesh. Her sort should command a good price. Roan Beauty is another good one, and has at foot an extra good heifer calf by Brawith Baron. There are two heifers, one by Secret Goods and one by Roan Sultan, that are both good ones. We are listing three bulls, one by Royal Sultan, out of Sweet Violet, that is the making of a good one. He is thick, smooth, close to the ground, and in fair flesh. Southern Goods, by

BRANSON'S DUROC JERSEY SALE

At the Farm Near

West Branch, Iowa, Wed., Oct. 15, 1913

50 Head, 25 Boars, 25 Sows and Gilts

THE offering consists of 25 extra growthy spring boars, 15 spring gilts, 8 good fall yearling gilts and 2 yearling sows by Peachie Commodore; spring pigs by Branson's Golden Model by Golden Model II. The fall sows are by Wilson's Defender and H. I.'s Model. The entire herd has had the double treatment and are immune from cholera.

H. I. BRANSON - - WEST BRANCH, IOWA

Alban and Gibson, Auctioneers. Carlos C. Palmer, Homestead Field Man.

Sale of Big-Type Poland Chinas

To Be Held in

North English, Ia., Thurs., Oct. 23, 1913

50 Head--30 Boars, 20 Sows

WE are listing a grand lot of big, smooth, growthy fall and spring boars and gilts sired by Big Bone I. X. L., by Giant Leader, Black Jumbo, Grand-Chief, Young Expansion, Blue Valley Chief 2d, Long Expansion and Victor Price. They are the large kind and the dams are equally as well bred along big-type blood lines. Anyone in need of a good Poland China boar or sow that will do them good should attend this sale. Bids sent to Carlos C. Palmer, in our care, will receive careful attention. Write either of us for a catalog, mention The Homestead. Cols. W. H. Cooper and C. C. Evans, auctioneers

ED. SECKINGTON - - - NORTH ENGLISH, IOWA

C. B. HILFIKER - - - NORTH ENGLISH, IOWA

Prize-winning Poland Chinas

From the Herds of W. A. Lingford, Dannebrog, Neb., and L. F. Reilly, St. Paul, Neb., will be sold at Auction in sale Pavilion in

St. Paul, Nebraska, Friday, October 24, 1913

NEVER before from our herds have we listed so many high-class boars as we will offer at this time. They are sired by the great Golddust Hadley, without question one of the very best sires of the breed, Sampson by Pawnee Lad and Combination by the great Blue Valley Quality. Each of these boars have sent first prize winners to the Nebraska State Fair, the greatest Poland China show in America. There are boars listed for this sale that will win at Chicago this winter, or will make excellent prospects for next season's fairs. D.'s Monarch, the noted son of Golddust Hadley, is also the sire of some stuff of the greatest merit ever sold. We want you to see these hogs, and if you see you will buy. Send for catalog immediately. Col. H. S. Duncan, auctioneer. J. C. Price field man. Mention The Homestead and send for catalog to

W. A. Lingford - - Dannebrog, Neb.

DISPERSION SALE OF SCOTCH AND SCOTCH-TOPPED

SHORT-HORNS

To be held at the farm adjoining

BERLIN, IOWA

TUESDAY, OCTOBER 21, 1913

44 Head. 10 Bulls, 34 Females. 44

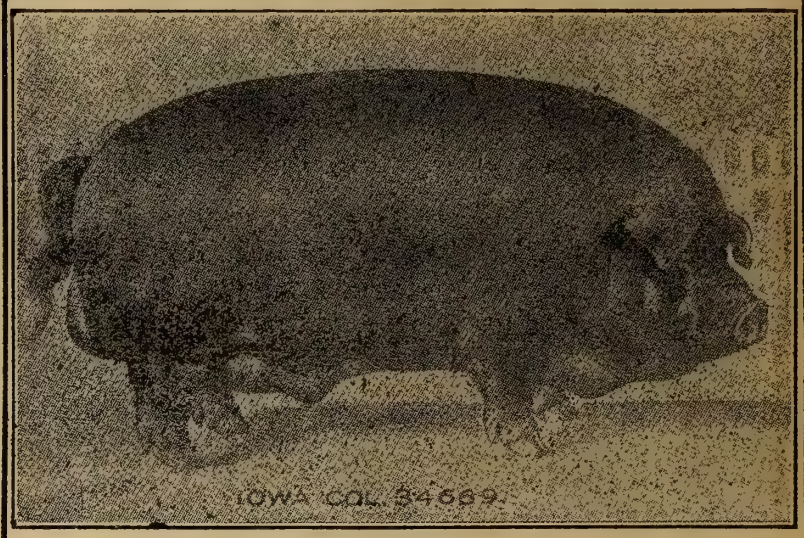
I HAVE sold my farm and for this reason must disperse my entire herd of Scotch and Scotch-topped Short-horn cattle. The sale includes my two herd bulls, Royal Patience by Keystone, dam Imp. Patience; and Roan Marshall by Perfection Marshall, dam tracing to Imp. Dalmeny Princess. There are a mber of royally bred Scotch females that will sell and should prove valuable investments. The herd is in excellent breeding condition and has always produced excellent profits for me. It is with regret that I part with these cattle, but the buyers will get the benefit of my years of experience in building up this herd. I have used nothing but the best Scotch bulls and there will be sixteen cows with calves at foot or safe in calf to my Scotch herd bulls. The balance of the females are yearling and two-year-old heifers and they are a very attractive lot. Carey M. Jones, auctioneer. Write me for catalog, mentioning The Homestead. Address

C. J. C. COLD - - - BERLIN, IOWA

Rude & Son's Sale

DUROC JERSEY BOARS AND SOWS

MOORHEAD, IOWA, WEDNESDAY, OCT. 22, '13



Iowa Col., the 900-pound boar to be sold in the sale.

40 HEAD. 35 BOARS, 5 SOWS WITH LITTERS. 40

WE are selling our great herd boar, Iowa Col., the 900-pound son of Tippy Col. in sale; also Rude's Crimson Wonder I Am, a splendid son of old Crimson Wonder I Am. Nine good fall boars will be sold and 26 choice spring boars sired by our noted show and breeding boar, High Chief, Iowa Col., Jumbo Col., Sensation Wonder and Misouri Model Top. Five high-class sows, mostly with litters at side. Col. N. G. Kraschel, auct., M. T. White, fieldman for Homestead. Write for catalog and mention Iowa Homestead. Address

RUDE & SON - MOORHEAD, IOWA

Secret Goods, a grandson of Choice Goods, with the proper care will make a bull to compete in the best of company, and not easily defeated in the show ring. You cannot say too much about this bull. He is not in the condition that he should be, but take it from me, he is a good one. We are also listing a bull out of Rosa Hope, the cow that I bought in Canada two years ago. He is by Gainsford Marquis, is a good individual, and some good breeder should buy him." The advertisement can be secured by addressing Thos. Stanton, Wheaton, Ill. Kindly mention The Homestead when you write. See page 40.

Barker Bros. & Crowell's Durocs.

On October 24th, at Riverton, Iowa, Barker Bros. & Crowell will make their annual sale of forty head of Duroc Jersey boars and these are the breeders that have been making a great hit with their large-type Durocs. They made their first annual fall sale last year and they sent out several boars that became herd headers, and some of these today stand at the head of some of the best herds in the West. In their forthcoming sale they will sell forty head and this offering will measure up with the high standard maintained by these young breeders. There will be twenty-five head of corking good spring boars in this sale and they are not only well bred, but they are grown out well and have plenty of size. Quite a few of these are sired by their great breeding boar, Valley King 2d, the best boar they have ever used in their herd and one of the best breeding boars today in western Iowa. Then they have some Col. High, a boar that they have also used, Jim's Mogul, the boar at the head of the Jim Isaac herd, and a number by a son of Col. Gano. There will be ten head of their very best spring gilts in this sale and these will be the same breeding as the boars. There will be one fall boar and one winter boar in the sale. Among the spring litters are one boar and two gilts that are sired by a boar called Red Oak and out of Valley King Princess, a daughter of Valley King 2d. Another litter by the same boar is out of a sow called Model Nell, and she is a daughter of the great boar, Model Wonder. Both of these litters are especially fine and the boars are good enough to head good herds and the gilts are good enough to go anywhere. Two April boars sired by Valley King 2d and out of Proud May are very good and while these are a trifle late they are nevertheless good size for their age and will round out into about as good things as will go into the sale. Three gilts and one boar sired by a son of Col. Gano and out of Clover Lawn Lady are very choice. The dam of this litter has never failed to produce their very best sellers. There is a good litter of three boars and one gilt by Jim's Mogul, the large boar that heads the Jim Issac herd at Red Oak. There is a splendid fall boar and a fall sow sired by Valley King 2d and out of a High Col. dam that will bear watching, as they are strictly good and both stand on the best of feet. Two other good fall yearling sows sired by the same boar and out of Standard Queen are very choice and these will make splendid brood sows for any man that buys them. Another good fall sow is sired by Cherry Prince and she is out of a daughter of The Professor. There will be two good fall sows by Valley King 2d out of a daughter of Inventor Lad and a few sows that will sell with litters at side. Their offering is a strictly choice one and you will not be disappointed if you go to their sale. Write them at once for their catalog and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in their care will be properly attended to on day of sale. See page 37.

Foss' Duroc Jersey Sale—Last Call.

We are this week making the last call for the sale of Duroc Jersey swine that will be made by Theo. Foss, Sterling, Neb., October 16th. At this time Mr. Foss will put up a fine offering of boars and also a few females. The boars consist of a few fall boars, one a son of the champion, Valley King, and a fine lot of spring boars by different sires, among them being Prince of Col. 2d, Cherry Chief, Ohio Col., Model Top and another or two. Some of these boars are really first class, being in the real herd boar class, and the remainder are good strong farmers' boars of the very best blood lines. The gilts that will be sold are extra good, in fact, a couple of fall gilts that sell are really too good for the ordinary fall sale. They are the sort that would be appreciated if bred to a first-class boar and put in a sow sale. They will be good property for breeders that do not have enough to fill out their sales, for these gilts will do well for them. The writer would like to see a good attendence at this sale, and those that have not the time to attend, may send bids to J. C. Price, the field man for The Homestead, and the same will be well looked after. Address all bids to J. C. Price in care of Theo Foss, Sterling, Neb. See page 41.

Fred Swan's Large-Type Durocs.

When it comes to breeding the larger type of Duroc Jerseys they will all have to take off their hats to Fred Swan, Missouri Valley, Iowa, who will make a public sale on October 17th. There isn't any better feeder or caretaker in western Iowa than is Fred Swan and we will prove this to you on the day of his sale. He is selling forty head of boars in this sale and these are the select of the 300 that he now has on the place. Among the spring boars that he will offer are some that are sired by some of the most noted boars of the present day. Among these will be sons of the great Col. Gano, and there are some good ones by him in this sale. Then you will find sons of Crimson Wonder 3d, Golden Gano, Crimson Col., I Am A Crimson Wonder 2d, King Edward, High Ridge Muncie, Crimson Wonder Chief, Osborn's Crimson Wonder, and several other very noted sires. In our last week's issue we gave a detailed description of the various pigs that he would sell in this sale and we are going to let it go at that, but we do want to impress upon our readers and especially those who are going to want a large, stretchy boar that they cannot afford to miss this sale of Fred Swan. All things considered it is one of the best offerings of strictly large-type Duroc Jersey boars that will be offered in western Iowa this fall. Write Mr. Swan at once for a copy of his catalog and kindly mention The Homestead. M. T. White will represent this paper at the sale and will look after any bids sent in his care. See page 41.

The illustration herewith shown was taken on the farm of Theo. Foss, Sterling, Neb., and shows a bunch of breeding stock from his Duroc Jersey herd. Mr. Foss makes a public sale oon October 16th. See field on this page and sale advertisement on page 41.

Economy Farm Duroc Sale.

One of the very attractive Duroc Jersey sales that will be held this fall will be that of the Economy Farm, Shenandoah, Iowa, October 29th, when they will sell forty head of high-class boars and sows. Among the number will be five sows that will sell with breeding privilege to their new grand champion Iowa State Fair boar, Big Wonder. One of these will be a daughter of King The Col., one by Col. Gano, one by Highland Chief and the two under-year sows that they won third on at the Iowa State Fair and the other one that was in the fourth-prize young herd. Two choice gilts that will be listed are sired by Highland Chief and Chief's Col., dam by Defender out of Chief's Jewel. They will sell Highland Chief, one of the very best herd boars they have on the farm, and also Top Col. Fifteen fall boars and seventeen spring boars go in, five of the latter being sired by the great boar, Chief Col. If you will only send your name on a postal card to the Economy Farm, Shenandoah, Iowa, and mention The Homestead your name will be placed on their mailing list and you will in return receive one of the most up-to-date catalogs you have ever seen. Watch next week's paper for further particulars regarding this sale.

Seckington & Hilfiker's Poland China Sale.

On October 23d Ed Seckington and C. B. Hilfiker, of North English, Iowa, will hold a sale of fifty Poland Chinas of the big type. The offering will consist of about twenty boars and thirty sows. Mr. Seckington's consignment will consist of some good fall boars and gilts sired by Big Bone I. X. L. by Giant Leader and out of Lady Big Bone by Big Bone. This boar was the top of R. M. Cassell's sale in 1911. Mr. Seckington will also sell some extra good spring pigs sired by Black Jumbo by Big Bone and by Chief Jumbo. The dams are sired by Chief Price 3d, Osborn Perfection, Chief Look Superior and others. There will be a fall and spring litter out of the noted brood sow, Osborn Maid. There will also be a litter sired by Grand Chief and out of a dam by Big Halvor. Mr. Hilfiker will sell some good fall gilts sired by Young Expansion by P.'s Mastodon and a fine lot of spring pigs sired by Blue Valley Chief 2d, he by Blue Valley Chief and out of Model Expansion by Dorr's Expansion; Long Expansion by Big Expansion out of Hazel Price and Victor Prince by Big Victor. The offering will be in nice condition and well grown out. Buyers in the market for something good

Pfander & McClelland's Sale

DUROC JERSEY BOARS, SOWS

Clarinda, Iowa

SATURDAY, OCTOBER 25, '13

45 HEAD. 30 BOARS, 15 SOWS. 45

WE are selling 3 choice fall boars, one outstanding good one; 27 good spring boars, many of which are good enough to head best of herds. These are sired by our 900-pound boar **Golden Col.**, regarded as one of the very best in Southern Iowa; also a few sired by **Critic B, Big Col., Crimson Col.** and **Queen's Col.**; 5 **good fall sows** sired by Golden Col. and also our **1st prize Golden Col. Yearling show sow.** We are offering a great lot of boars and sows in this sale. Col. N. G. Kraschel, auct. M. T. White, fieldman for Homestead. Write for our great catalog and mention Iowa Homestead.

PFANDER & M'CLELLAND - CLARINDA, IOWA

individually with the best of breeding should not miss this sale. Bids sent to Carlos C. Palmer, Homestead representative, in care of either of these gentlemen, will be properly taken care of. Write for catalog, kindly mentioning The Homestead. See page 35.

Lingford & Reilly's Poland China Sale.

On October 24th at St. Paul, Neb., W. A. Lingford, Dannebrog, Neb., and L. F. Reilly, St. Paul, Neb., will sell one of the most important lots of big Polands that will be sold this season. This offering is of particular importance on account of the number of herd heading boars that will be offered. There will be about fifteen boars that are real herd headers. We do not mean that these are passably good boars, but that they are herd-heading boars in every sense of the word, and we believe that we know a good Poland China. A September yearling by D.'s Monarch is one of the best boars ever bred by Mr. Lingford. He is a boar that we positively think would win a good place at the International this winter, and Homestead readers that contemplate going to Chicago this winter would find that this boar would materially strengthen their herd. Another boar by Gold Dust Hadley is nearly as good. Still another by Combination is a good probability for that show. The spring boars have not been well enough fitted to make a good showing at Chicago, but there is at least a half dozen that should be money winners in the best shows of the corn belt next fall. The nice thing about these Lingford and Reilly Polands, is that they are big enough for most anyone and then too they can meet and outshow the small type stuff. These are surely the big hogs with quality that many say that they have, and these men sure have them. Two years ago Mr. Lingford won more prizes than anyone else at the Nebraska State Fair. At the same time Mr. Reilly won first on under six months pig and that boar is now one of the most highly prized boars in Iowa, being at the head of the John Schneider herd at Remsen. One of the boars that won at Nebraska went to Sioux City the next year and was first again. The next season the winnings from these herds was nearly as great. This year the champion sow was shown by Mr. Lingford. She is by Sampson and from a Gold Dust Hadley sow. Another nice thing about these hogs is that they raise pigs. No breeder in the West raises any more pigs per sow than these men. Their show sows come right home and farrow and raise good litters. We saw one with nine live pigs on our recent visit from a litter of eleven. Another sow with seven from a litter of nine and one or two more to farrow. The first prize sow two years ago raised the champion sow this season. This is the sort of stuff that you get from these herds. Men from Illinois, Iowa, Nebraska, and in fact all the corn belt states have bought from these herds and they have absolutely given satisfaction. We would like for Homestead readers to send for the catalog of this offering without delay, look it over carefully and plan to attend this sale. If unable to attend, send bids to C. Price, of The Homestead. He is familiar with every animal in the herd. Knows the very best strains in these herds and will make a good selection and will buy as cheaply as possible. These hogs are worth paying express on a good long way, and we want you to have them. Mention The Homesetad when you write. See page 35.

Thompson Bros.' Herefords.

On a recent visit to West Point, Neb., we saw what we think one of the best foundation herds of Herefords we have seen in a long time. We refer to the herd owned by Thompson Bros. of that place. This herd has for future assurance, not alone good cattle, but it has a still more important factor in the most capable, careful and enthusiastic of caretakers any herd might possess. This feature is more than half the herd, but the other part of this particular herd is also well founded, for they are in most cases excellent stock. This is the home of the noted Duke Real 388816, the $2,000 calf sold last spring in the McCoy sale. This is a really good calf,

The Chester White gilt shown is four months of age. She is from the notice his advertisement on page 46.

E OF HEREFORD CATTLE
Y, IOWA, TUESDAY, OCT. 21, '13

37 FEMALES 60

very best lots of bulls of the ever been cataloged for one to head a high-class herd. nners, Standard and Distinc- ll should miss this sale. The ix years old is cataloged. A d three-year-old heifers will alves at foot or be bred rated catalog containing a life-like photograph of every animal in the estead. Fred Reppert, auctioneer. Address

- - NORWAY, IOWA

HARRIS' MODEL HEREFORDS

At Auction

HARRIS, MISSOURI, OCTOBER 22, 1913

THIRTY BULLS FORTY FEMALES

Gay Lad 12th, Son of Gay Lad 6th, Has Been An Easy Winner at Most Every Show This Year.

THE fall shows have again proven, beyond the shadow of a doubt, the superiority of the Model Herefords. We have again won more than all our competitors combined. Read that over because it means something.

It means much, because we are offering the same blood lines in our sale. In fact, about twenty of the thirty bulls are sired by our championship bulls, Repeater, Gay Lad 6th and Prince Perfection. There is no better time to buy a herd bull than at this sale. You can't be disappointed in them because they are the proper sort. Quality will pay—and this is a sale of Model Herefords; which means quality Herefords. The heifers, forty of them, are a grand bunch. Just a good, strong, even bunch full of quality. We used the utmost care in selecting them and I feel that there is no chance for you to be disappointed. I want to start more men in the Hereford cattle business and have selected these heifers to do it with. I have used the best bulls we have on them and every one is safe in calf to our grand champions, Repeater, Gay Lad 6th and Prince Perfection. If you want the kind that pay be sure to come to the sale.

Dry weather doesn't stop the Herefords—they thrive just the same. Plan to come. We want you to. An illustrated catalog will be sent upon request. Address,

O. HARRIS & SONS,

BOX C, HARRIS, SULLIVAN COUNTY MO.

Cols. Reppert, Graham and Nelson, Auctioneers.

MINNICK & NANSEL'S SALE OF POLAND CHINAS

AT KIEL'S BARN, COUNCIL BLUFFS, IOWA, OCTOBER 17, 1913

50 Head of Boars, Sows, Gilts, 50

WE are selling a splendid lot of well bred big-type Polands sired by **Big Victor, Big Tom, Big Omaha, I Am Big Too, Big John, I.'s Quality** and **Metal Top.** If you are wanting bargains come to our sale. Catalog ready. Write for it. Col. N. G. Kraschel, auct.

MINNICK & NANSEL - - COUNCIL BLUFFS, IOWA

THOS. STANTON'S SALE OF GOOD SHORT-HORNS

AT SITTYTON GROVE FARM, WHEATON, ILLINOIS, TUESDAY, OCTOBER 14, 1913

55 head. 8 bulls, 47 females, including a select draft of 15 Scotch cattle from Smith & Heisserer, Oran, Mo.

MR. STANTON WILL SELL a strong collection of Scotch, Bates and Scotch-topped cattle. The Scotch-bred specimens include some outstanding good ones belonging to the Rosemary, Secret, Goldie, Lavender and Jilt tribes, while the balance of the offering comprises a choice lot of the beef and milk class of cattle, broad backed, fine matrons that will look well on any farm. They belong to the Bates and Wild Eyes strains, and it has been many years since there has been offered in a public sale so much value in this class of cattle.

SMITH & HEISSERER SELL all of their Scotch-bred Short-horns, fifteen head, of the Missie, Violet Bud, Augusta, Butterfly, Rose of Autumn, Rosa Hope and Golden Drop families. These cattle were selected regardless of price as foundation stock, and are only offered now owing to a dissolution of partnership. Three bulls are in the list, one by Gainsford Marquis, one by Royal Selection and one by a grandson of Choice Goods. This is a most desirable lot of cattle, strongly bred, and valuable to anybody. Send for the catalog of this sale. Mention The Homestead and address

THOS. STANTON - - - - - - - WHEATON, ILLINOIS

Colonels Woods and Jones, auctioneers. Attention is called to the following Short-horn sales: S. F. Lockridge, Chicago, October 13th; C. J. McMaster, Altona, Ill., October 15th; R. W. Botts, Plymouth, Ill., October 17th.

IF YOU ARE INTERESTED IN GOOD PERCHERONS

You Will Find What You Want in the

ROBISON BROS. SALE, MORTON, ILLINOIS, MONDAY, OCT. 20, '13

When Forty Head of Good Ones Will be Sold

TWENTY mares, two years old and over; seven imported mares; nine fillies, yearlings and weanlings; six yearling stallions; five weanling studs. A thoroughly reliable, honest lot of Percherons, all but eight head of which were bred on our farm. Twenty-eight head are the get of the celebrated St. Louis World's Fair winner, Vermouth, and many of the mares are bred to him, others being bred to Molineaux, Olbert, Jayette, Perfection. If you are looking for Percherons of merit and breeding, the reliable working kind, you will make no mistake by attending this sale. Every mare is a worker and a producer. Some outstanding young stallion propositions are cataloged. Write today for the catalog. Mention The Homestead and address

ROBISON BROS. - - - - - MORTON, ILLINOIS

Cols. Jones, Reppert, Seeley and Carius, auctioneers. Sale at farm, five miles east of Morton on line of Illinois Traction System, with cars every hour from Peoria, Bloomington and Springfield. Get off at Robison Road, which is right at the farm.

mentioning The Homestead when you write. The advertisement appears on page 13.

Tow's Hereford Sale.

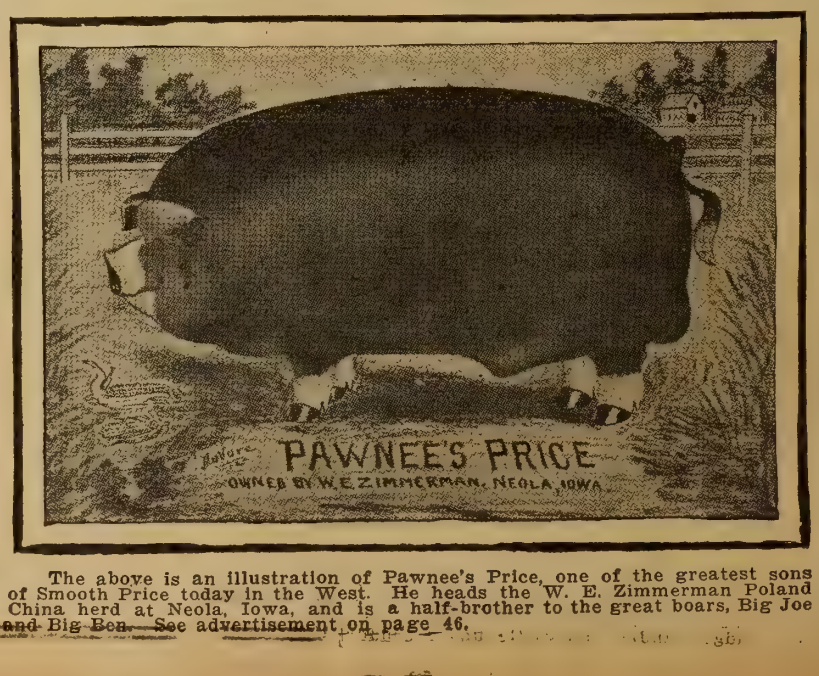
Cyrus A. Tow, Norway, Iowa, will hold his third sale of prize-winning Hereford cattle at his Fairview Farm on October 21st. Mr. Tow from a modest beginning a few years ago has built up one of the best herds of Hereford cattle to be found in the country. Such was his ambition from the start. In order to accomplish this end he purchased nothing but the best bulls and females to be found. His purchase of Disturber and the entire Brock herd was a great addition to the herd and has been a great means of bringing the herd to its present high standing. Twenty-three bulls and thirty-seven females have been listed for this occasion. The bulls are probably as good a lot all through as has yet been offered at public auction. Every one of them is of herd heading character. It is very seldom that as many really high-class bulls can be found on one farm as will pass through this sale. A description of the good ones would mean a description of the entire lot. There are several sons of the grand champion bull, Standard, and they will meet with the approval of the most critical. There are a few sons of the prize-winning son of Distuber, Distinction, and they are extra good. We will not attempt to describe each individual bull, but want to impress upon the breeder in need of a high-class herd bull the importance of attending this sale. A Homestead representative has inspected the entire offering and we want to say that the quality of the bulls to be sold in this sale could not be overdrawn. Fairview Farm is one of the best equipped farms for the rearing of pure-bred cattle that can be found in the state of Iowa. It is worth the time of any breeder to visit this farm and see the equipment. The females are a grand lot and those of breeding age will either have calves at foot or be safe in calf to Standard or the $2,500 Byron Fairfax, a son of the great champion, Perfection Fairfax. It is from such a herd as this that beginners or breeders can get the really high-class sort of breeding stock. This herd won more prize money at the last International stock show than any other exhibitor. You can expect these matrons and bulls to keep on reproducing their sort. Write Mr. Tow for catalog, mentioning The Homestead. Look up his announcement on page 39.

W. B. Rigg's Short-horn Offering.

Regarding the Short-horn cattle that he will contribute to the sale of R. W. Botts, Plymouth, Ill., October 16th, W. B. Rigg, Mt. Sterling, Ill., writes: "The cattle that I am selling are virtually all my own breeding, as I sold four years ago to Mr. Ravenscroft the three cows, Princess Minnie, Roan Minnie and Golden Poppy 3d. I have sold him every bull that he has ever used, and the three cows that I have mentioned and their produce are the cattle that I am selling. Individually they are good and in good flesh. Roan Minnie is a large, smooth cow, with a nice head and horn, a good producer and heavy in calf to Roan Champion. Princess Minnie is a good cow and an extra good breeder. She sells with an extra good calf at foot, and is safe in calf again since April. There are not many better cows than Golden Poppy 3d, and she is due to calve before sale day to the service of Roan Champion. Golden Rose is a two-year-old heifer out of Princess Minnie, sells safe in calf to Roan Champion, and has a pair of heifer calves at foot. She will be a bargain for some one. Roan Champion, the bull that I am selling, was two years old in July. I sold him when he was just a year old, and every one pronounced him a better calf than the white bull I sold at Galesburg last spring. He is sure and all right in every way." Mr. Rigg's statement in regard to his cattle can be relied upon in every particular. The announcement for this sale appears on page 41 and catalogs can be secured by addressing R. W. Botts, Plymouth, Ill. When you write kindly mention The Homestead.

Naiman Still Offering Bargains.

Those Poland China bargains that have been offered by John L. Naiman, Alexandria, Neb., are attracting attention. Men in search of good stock are finding that Mr. Naiman has the goods to offer and his prices for the class of stock offered are mighty low. This is a season of short crops with Mr. Naiman and he is offering these boars at such prices that they simply must move. The specials this week are three early March boars, big, broad fellows with lots of length and bone, and they are sired by Naiman's Choice by the great Blue Valley. These boars are all right in every way and the stockman that lands one of them will have reason to congratulate himself. Also some later pigs by Blue Valley's Orange are very good and will sure go at bargain prices. Fall pigs at $12.50 each are also being offered and early orders will be the only ones that are sure of being filled, for these good pigs will go fast. Get in line on this stuff without delay. Mention this paper when you write. See page 38.



The above is an illustration of Pawnee's Price, one of the greatest sons of Smooth Price today in the West. He heads the W. E. Zimmerman Poland China herd at Neola, Iowa, and is a half-brother to the great boars, Big Joe and Big Ben. See advertisement on page 46.

Cooper Offers Poland China Boars at $25.

W. H. Cooper, Hedrick, Iowa, one of the reliable breeders of big-type Poland Chinas, is offering for sale fifty head of big-type boars of March and April farrow, all large enough for service, at $25 each. They are sired by the 1,000-pound Big Bone 2d, 900-pound Big Expansion and the 600-pound yearling Chief Leader. The dams of the pigs are extra large sows weighing from 500-pound yearlings to 800-pound matured sows. Mr. Cooper is very busy, having a large auction business and has not time to carry on an extensive correspondence and for this reason asks anyone interested in a good boar to send him a check for $25 with first letter and he guarantees to send you a boar that is worth the money. If you want a good boar write Mr. Cooper at once and send him your check as per his announcement on page 47. When writing him be sure and mention The Homestead.

Affairs at Pioneer Stud Farm.

John G. Truman, manager of the Pioneer Stud Farm, Bushnell, Ill., writes: "Our horses arrived from the Indiana State Fair in good condition. We had our usual success at that fair, winning both championships on Shire stallions and mares, together with every first prize that we showed for. We have recently sold to Samuel Insull for his Hawthorn Farm, the imported Percheron fillies, Lagestiere and Limonade. The former will be remembered as the filly that won the first prize in the two-year-old class at the great Percheron show held at Mamares on July 6th. She was pronounced by expert judges at that time to be one of the grandest specimens of the breed ever exhibited at that show. Limonade is also an outstanding filly of the same age, and both fillies are sired by the noted Huchoir. They weighed last week 3,470 pounds, there being only ten pounds' difference in their weight. I am pleased to say that our horses are all doing well. The importation that arrived three weeks since are in first-class condition and ready for sale. We are making attractive prices just now in order to make room for another importation that W. E. Truman will bring over next month. We shall be pleased to mail our catalog to anyone requiring strictly high-class draft horses of either of the breed we handle." See the Truman advertisement on page 42.

M'MASTER'S SALE OF SCOTCH SHORT-HORNS

ALTONA, ILLINOIS, WEDNESDAY, OCTOBER 15, 1913

40 HEAD---5 BULLS---A TOP LOT

THIS is the fourth annual offering from Glenview, and is the best lot of cattle ever sent forward from the herd, both as regards breeding and individuality. The female list includes some of the greatest breeding matrons and young cows ever presented in any sale. Ten cows will sell with calves at foot by such sires as Roan Sultan, Masterpiece, Silverdale, Browndale Sultan and other top bulls. In the bull list is Glenview Dale 4th, a red yearling by Browndale Sultan, that is a top one in any company; a good one by the champion, Avondale, and some outstanding calves. In this sale are daughters of Silverdale, Villager, Whitehall Sultan, Nonpareil Crown, Masterpiece, Lord Lenten, Avondale, Maxwalton Dale, as strong an array of sires as the breed affords. The catalog tells the story and will be sent upon application. Mention The Homestead and address

C. J. M'MASTER - - - - ALTONA, ILLINOIS

Colonels Jones and Reppert, auctioneers. Attention is called to the following Short-horn sales: S. F. Lockridge, Chicago, Ill., October 13th; Thos. Stanton, Wheaton, Ill., October 14th; R. W. Botts, Plymouth, Ill., October 16th.

SHORT-HORN DISPERSION SALE

PLYMOUTH, ILLINOIS, THURSDAY, OCTOBER 16, 1913

40 HEAD---13 BULLS---ALL SCOTCH

TWENTY-FIVE females are listed, nineteen of them bred to Pride of Linwood or Village Magnet. There are six strong heifers by Pride of Linwood. The bull offering includes Village Magnet, a two year old by Bapton Magnet, a son of the great Silver Plate, and out of a Cruickshank Village Blossom dam; Progress, a two year old by Pride of Linwood out of an Acanthus dam by Baron Golddust 3d; Elm's Diamond, a red yearling by Pride of Linwood out of a dam by Imp. Pennan Diamond, and ten young bulls and bull calves by Pride of Linwood, all Scotch, and including many outstanding prospects. This lot of cattle will please you. Every cow in the Elms herd raised a calf this year. The families represented in this offering are Nonpareil, Acanthus, Lavender, Rosemary, Queen of Beauty, Village Blossom, Marr Mary Ann, Violet Bud and a few Scotch-topped Waterloo J.'s, a family I have bred with much success for twenty years. W. B. Rigg, Mt. Sterling, Ill., consigns nine head, eight females and one bull, all Scotch bred but two head. Attend this sale. Write for catalog, mentioning The Homestead, to

R. W. BOTTS - - - - - - - - PLYMOUTH, ILLINOIS

Colonel Carey M. Jones, auctioneer. Sale on farm midway between Plymouth, on the C., B. & Q. road, and Bentley on the Wabash. Parties met at both points. Attention is called to the following Short-horn sales: S. F. Lockridge, Chicago, Ill., October 13th; Thos. Stanton, Wheaton, Ill., October 14th; C. J. McMaster, Altona, Ill., October 15th.

The Robison Percheron Sale.

No more reliable lot of Percheron horses will be offered this year than that to be sold at Morton, Ill., Monday, October 20th, by Robison Bros. No matter what your wants may be in the horse line, you can secure what you need at this sale. There are forty head cataloged, and with the exception of seven imported mares and one American-bred mare, every horse in the sale was bred by Robison Bros., so the value of the offering as a genuine breeding proposition is at once apparent. One fact of great importance in connection with this sale is that the younger stock, the yearling stallions and fillies, the weanlings and the suckers, are all by one horse, Vermouth, the winner at the St. Louis World's Fair, and a stallion with a wide reputation as a sire of the very best class. In addition there are a number of the mares that are bred to this horse. Vermouth, despite the fact that he is somewhat along in years, is still in active service in the stud, and giving as good an account of himself as a sire as he ever did. The mares in this sale are the right kind. They do all the work on an 1,100-acre farm and are regular breeders, as a visit to the farm will demonstrate, for colts are to be found on every hand. Imogene is an extra good brood mare, a granddaughter of Seducteur and Introuvable, and bred to Vermouth. Imp. Hereuse is one of the good imported mares in the sale. She is six years old, and has had four colts, so you can see she is a breeder in the fullest sense of the word. Vermouth's Empress is an outstanding good young mare by Vermouth, and Imp. Norcrase is one of the good ones. She is the dam of one of the best yearling fillies in the sale, and is bred to Vermouth. There are plenty of good values in the mares in this sale. They are bred to Vermouth, Molineaux, Olbert, Jayette and Perfection, all outstanding sires. The stallion portion of the sale offering is in every way in keeping with the high standard of the mares, and some exceedingly strong propositions are listed. An extra fine prospect is offered in Velpau, by Vermouth, dam by Seducteur. His full brother was a winner at the Illinois State Fair and the International Live Stock Exposition. This stud should attract attention sale day. Vendome is a cordy-legged youngster by Vermouth, with lots of bone and substance, and Vernon, by Vermouth, out of an imported dam, is a flash-going colt, with conformation and substance. A very attractive proposition is Vassar, another yearling stud by Vermouth, dam Imp. Hereuse, one of the best brood mares in the stud. There are other good young things in this offering, and you will not be disappointed in the horses if you attend the sale. Look up the advertisement on page 40 and send for a copy of the catalog to Robison Bros., Morton, Ill. When you write kindly mention The Homestead.

Zimmerman's Pawnee Price Boars.

On page 46 you will find the Poland China boar advertisement of W. E. Zimmerman, Neola, Iowa, who is offering thirty head of immune boars for sale and they are sired by his great young boar, Pawnee's Price 185387. This boar, Pawnee's Price, is one of the great Poland China herd boars in western Iowa. He is a son of the great Smooth Price and he is out of Extra A., a daughter of Fesenmeyer's old A Wonder, and she was one of the best sows we ever saw. This boar is a half-brother to Fesenmeyer's Big Joe and Pfander's Big Ben, and he is to be classed right along with these two great herd boars. He is a boar not only Mr. Zimmerman can feel proud of, but he would be a great boar in the herd of any of the more noted breeders' herds. He has the size and the bone and quality that they are all after and he is breeding well. In fact, some of the best pigs that Mr. Zimmerman has raised this year are sired by this hog and he has had pigs by several of the other leading boars throughout the West and they have all received the same care. There are few breeders of Poland Chinas here in the West that can show up a better herd boar than can Mr. Zimmerman, and he can show you a bunch of young boars by this sire that you will take off your hats to. He is offering thirty young boars for sale and they have all been vaccinated a month or more ago and are therefore immune and cholera proof. Mr. Zimmerman writes us that he will sell one of his present herd boars, Mastodon King, a son of King Mastodon, and this hog was the top of the Ed Hickey sale last fall. He is a good breeding boar, has plenty of size and ample bone and he is immune, having been vaccinated a month or more ago. Here is a good chance to buy a good herd boar and one that is immune. Write Mr. Zimmerman at once or go and see these boars he is offering for sale. When writing him kindly mention The Homestead.

The Lockridge Short-horn Sale.

Our readers should keep in mind the sale of forty head of Scotch-bred Short-horns at Chicago, Monday, October 13th, by S. F. Lockridge, the veteran Short-horn breeder, at Greencastle, Ind. The cattle are a well-made and well-bred lot, carrying in their veins probably as much pure Cruickshank blood as can be found in any herd in this country. They will be presented in good condition, not in any way overdone, but in shape to go ahead and do well for the buyer. Mr. Lockridge handles his cattle under condi-

Fred Swan's Sale Big-Type

DUROC JERSEYS

Missouri Valley, Iowa

FRIDAY, OCTOBER 17,'13

50 Head---40 Spring Boars, 5 Fall Boars, 5 Sows. 50

THREE Col. Gano boars, out of O. R. Fine sow. These are extra choice. Also boars by I Am Crimson Wonder 2d, Echo's Crimson Wonder, Golden Gano, Lafollette's Improver, High Ridge Muncie and Proud Iowa Chief. If you are looking for the big-type Durocs come to my sale. Catalog now ready. Write for it. F. F. Luther, auctioneer. M. T. White, field man for The Homestead. Address

FRED SWAN, MISSOURI VALLEY, IOWA

DUROC JERSEYS AND POLLED DURHAMS

At Auction From the Herd of Theo. Foss

Sterling, Nebraska, October 16, 1913

40 HEAD of Durocs, including a choice lot of herd-heading and farmers' boars and some extra choice gilts. The offering is strong in the blood of Prince of Col. 2d, Ohio Col., Select Chief, High Col. Cherry Chief and a few others. Some of these boars are absolutely toppy.

WILL SELL SIX POLLED DURHAMS and they include one four-year-old bull, extra good, one yearling bull and four cows and one calf at foot. Cols. Putman, Russell and Roberts, auctioneers. J. C. Price, field man for The Homestead. For catalog address

THEO. FOSS - STERLING, NEBRASKA

HORSES.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

Our Prices are the Lowest. OUR HORSES ARE THE BEST Send for our handsomely illustrated catalog. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS

MAASDAM & WHEELER

FAIRFIELD, IOWA

PERCHERONS

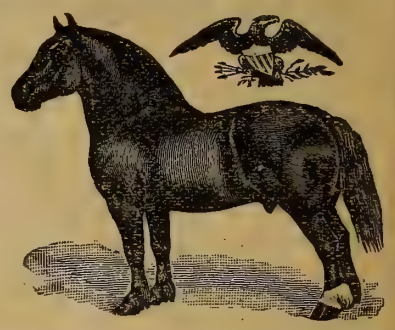
10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

HOLBERT HORSE IMPORTING COMPANY

PERCHERONS BELGIANS SHIRES

NEW IMPORTATIONS CONSTANTLY ARRIVING

We have at any time of the year more **Big Ton, High-class Percheron** and **Belgian stallions** than any other firm in the United States.



A. B. HOLBERT, Prop., GREELEY, IOWA

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW! V. W. HARMS, FAIRBURY, ILLS.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

GEORGE EGGERT J J J J J NEWTON, IOWA

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a gr and bunch of mares and fillies. Mares are all in foal to imported stallions. All of my prize winners at the recent Iowa State Fair are for sale. I can show buyers more horses for the money than my competitors. Visit or write me your wants mentioning Homestead. Farm ½ mile from town.

R. F. FRENCH - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

Irvinedale Belgians and Percherons

40 STALLIONS and mares—imported and home bred. Some highest class horses for critical buyers, and some farmers' horses at farmers' prices. Come to the farm. Ankeny is 10 miles north of Des Moines, on C. and N. W., and Ft. D., D. M. & S. Interurban. Address

CHARLES IRVINE - - - IRVINEDALE FARM, ANKENY, IOWA

Purchase Percherons

NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.

BUY THREE IN ONE

See the mares in pasture or infield work.
See the kind of colts they are suckling.

You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y. Union Stock Yards - - Chicago, Ill.**

FOR SALE

After October 15th,

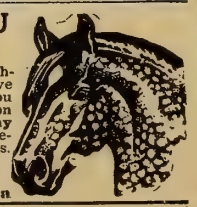
PERCHERON STALLIONS

from 2 to 5 years old. **Singmaster & Walker,** at Stock Yards, Sioux City, Iowa.

IT MAKES YOU FEEL GOOD

showing a stallion to your neighbors when you know you have the best around. Makes you money too. Get just that stallion and at breeder's prices from my big bunch of registered Percherons, weanlings to 4-yr.-olds. Early if you can.

FRED CHANDLER
Route 7, Chariton, Iowa



BELGIAN EMPORIUM OF AMERICA.

A CHOICE collection of Belgian stallions and mares constantly on hand. Several importations annually. Catalog on application. Address

HENRY LEFEBURE - FAIRFAX, IOWA.
Eight miles west of Cedar Rapids.

IMPORTED AND HOME-BRED

Percheron, Belgian and Shire Stallions and Mares

ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from.

Frank L. Stream - Creston, Iowa

AN EXTRA LOT OF YOUNG CLYDESDALE STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

300 SHETLAND and Welsh ponies for sale, all ages, including prize-winners. Write us your wants. T. S. Simpson & Sons, Aurora, Ill

LIVE STOCK AUCTIONEERS.

Be an Auctioneer

TRAVEL over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the actual practice school which opens October 6, 1913.

MISSOURI AUCTION SCHOOL
Largest in the World, W. B. Carpenter, Pres.
1400-04 Grand Avenue Kansas City, Missouri.

D. H. CUNNINGHAM

LIVE STOCK AUCTIONEER

GRADUATE of Animal Husbandry Dept. at Ames. 8 years' experience and lots of good sales. For terms and dates address

D. H. CUNNINGHAM, WAYNE, NEB.
Care of Citizens National Bank

GENE FAGAN, AUCTIONEER

PEDIGREED LIVE STOCK
153 SALES LAST SEASON
985 11th ST., MARION, IOWA

E. Z. Russell, Lincoln, Neb.

LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

J. H. BARR, Hebron, Neb.

Auctioneer

Pedigreed live stock a specialty. Write for dates.

tions that are sane and sensible and make for future good results, and those who attend this sale can rest assured that they will not be disappointed in the offering. Remember the date, next Monday, October 13th. This is the first of a four days' circuit of Illinois Short-horn sales, all within easy distance of each other, and every one well worthy of the utmost consideration and patronage.

Botts' Short-horn Dispersion.

There is much to interest the lover of good cattle in the catalog for the Short-horn sale of R. W. Botts, Plymouth, Ill., Thursday, October, 16th. Mr. Botts is selling practically his entire herd, consequently the public will have an opportunity to place values upon a good many cattle that otherwise would not be priced at all. Some very desirable Scotch-bred females are listed. The cattle in this offering were practically all bred by Mr. Botts, and are the kind that have proven profitable to him during the quarter of a century that he has been engaged in breeding Short-horns. One of the most valuable things in the offering is Azelia 3d, belonging to the Cruickshank Acanthus tribe, and while she is ten years old she is well worth consideration. Mr. Botts purchased this cow when a yearling heifer for $180. He has sold $1,250 worth of her produce and has nine head of her descendants in the sale. There can be no more striking illustration of the value of this lot of cattle than is embraced in this cow and her descendants. This cow is by Baron Golddust 3d, one of the best sons of the great Baron Gloster, and out of a dam by Gold Coinage, a Cruickshank Queen of Beauty. Fifth Elms Azelia is a daughter of this good cow, sired by the richly bred Prince Henry. She is bred to Pride of Linwood, the Duchess of Gloster, son of Victor Linwood by the International winner, Cock Robin, so successfully used by I. M. Forbes & Son. Lavender Lady is a good, thick, young cow, due to calve by sale day to the service of Village Magnet, the good young bull listed for the sale, and another good, young cow bred to him is Rosa Gem 9th, a Rosemary by the Cruickshank Violet Bud bull, Gay Prince. Village Pride 2d is a Village Blossom by Golden Crown, with a roan heifer calf at foot by Pride of Linwood, and Emma 27th belongs to the popular Emma tribe, was sired by Lord Roberts and out of a dam by Imp. Pennan Commander. These are but a few of the many good things that Mr. Botts has listed for this sale. There are a number of attractive young Scotch heifers by Pride of Linwood that will look well in any herd. Don't overlook this sale. There will be cattle to please you. The sale comes the day following that of C. J. McMaster, Altona, Ill., and can be easily reached from there. The final announcement appears on page 41. Look it up and send for a copy of the catalog, mentioning The Homestead when you write.

Stanton's Short-horn Sale.

The offering of Short-horn cattle to be made at Wheaton, Ill., Tuesday, October 14th, by Thos. Stanton, will comprise a lot of Scotch and Scotch-topped animals that will appeal very strongly to the buying public. The entire lot of cattle of Bates and Scotch-topped American sorts are of the most approved pattern, the big, roomy, breeding sort of matrons, swinging udders that are good enough to take rank with the dairy breeds. If ever there was a desirable lot of females sent through a sale ring they will be found in this offering. And while many will discriminate against them on account of their pedigrees, we venture to say that at no sale this year will there be offered cattle that will return any more profit to the buyer than this collection of typical Short-horn matrons. The majority of these cows sell with lusty calves at foot, adding very materially to their value. There will be a number of desirable Scotch cattle in the sale, part consigned by Mr. Stanton and part by Smith & Heisserer, Oran, Mo., who selected their cattle for foundation stock, securing the very best that money and experience could buy, and which are now offered owing to the dissolution of the herd. This sale follows that of S. F. Lockridge, Chicago, Monday, and parties can easily attend both.

AN IMPORTANT SALE OF ABERDEEN ANGUS CATTLE

TO BE HELD IN THE SALE PAVILION

WILLIAMSBURG, IA., THURSDAY, OCT. 16, '13

I AM offering many of the most desirable females in my herd in order that breeders desiring really high-class cattle will not be disappointed in the offering. William Cash, Williamsburg, Iowa, and P. J. Donohoe, Holbrook, Iowa, are contributing a few choice specimens of the breed. I take great pride in inviting every breeder and farmer interested in good beef cattle to attend this sale and pass your judgment on the value of the cattle to be sold. Many daughters and granddaughters of the noted Black Woodlawn, the undefeated Erwin C., Prince Ito, Black King of Homedale 2d and others are listed for this occasion. They are of the Blackbird, Trojan Erica, Pride and Queen Mother families. If you want a high-class herd bull or a few females to raise the average of your herd write me for a catalog at once, mentioning The Homestead.

Auctioneers, N. G. Kraschel and Fred Reppert.

JOHN CASH, JR. - - - PARNELL, IOWA

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100 HEAD 100

POLLED DURHAMS AND SHORT-HORNS

At Auction in Sale Pavilion at

ORD, NEBRASKA, WEDNESDAY, OCT. 15, 1913

In this sale will be offered about fifty head of Double Standard Polled Durhams from the herd of Walker Bros. Ord, Neb. These cattle comprise absolutely the best lot of stock that has gone in a western sale ring in years. They are of the very highest order as to individuals and all of excellent pedigree. All of desirable ages and in the best of thrift. The great show and breeding bulls, Cupbearer Prize, Splendor, Golden Hero Jr., Roan Hero and a few others are represented. The Short-horns include the entire herd of L. B. Branson, Ord, Neb., and are a grand lot of choice beef producers. They carry the best blood of the breed and present an extraordinary chance to get a good foundation of strictly meritorious beef producing cattle. There will be eleven choice bulls in all, and those searching for herd-heading material, of either breed, will find them here. Trains leave Grand Island at 7:00 a. m. Arrive Ord at 10:00 a. m. Leave Ord, 5:00 p. m., and arrive Grand Island 8:00 p. m. Col. Z. S. Branson, Auct. For catalogs mention Homestead and address

WALKER BROS. - ORD, NEBRASKA

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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15 Years' Experience
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12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods**, and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address

HOWELL REES & SONS, - - PILGER, NEB.

4--Good Young Scotch Bulls For Sale--4

I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address

GEO. H. WHITE, - - EMERSON, IA.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Myrtle, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead. **GEORGE D. HARRAH, NEWTON, IOWA**

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

Short-Horn Herd FOR SALE

NINE EXTRA CHOICE females and one very fine Scotch bull for sale. They come of excellent pedigree and are good individuals. Will price them cheap as a bunch. Write today if interested.

F. M. HALL - - FRIEND, NEB.

Have You a Labor Problem?

Solve It by Breeding Bates Short-horns

Mine Are From the Best Milking Strains.

B. W. LITTLE - JANESVILLE, WIS.

SHORT-HORN BULLS

SOME excellent bulls of serviceable ages. Pure Scotch, others Scotch topped. Good breeding, best of individuals and at farmers' prices. Address

J. H. HARPER - - BENNET, NEBRASKA

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5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.

W. M. MYERS - - BEAMAN, IOWA.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.

F. H. EHLERS - - TAMA, IOWA

WAY SIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

G. H. BURGE - MT. VERNON, IOWA.

SHORT-HORN CATALOGS

COMPILED and printed. Thirty-five years' experience with pedigrees enables me to do good work. Write for samples and prices. Some pure Scotch heifers for sale.

FRANK P. HEALY - BEDFORD, IOWA

1869 Herd Established 1869 1913
15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA.

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SIX 12 months calves to select from. One 16-month baby bull. Would also sell WILDWOOD SULTAN, 2d prize junior yearling at Des Moines, 1913. See them or write.

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SOME extra good yearling bulls sired by the 2,200-lb. Secret Hero; also a pure Scotch herd bull. We keep a great line of heavy milking cows. Mention The Homestead and address

IRVIN E. WILSON, BELVIDERE, NEB.

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FOR SALE. Reds and roans sired by Mr. Robin 338773, a richly bred Marr Missie. Address for prices, mentioning The Homestead,

I. H. Whitman - - - - - Lisbon, Iowa

CHOICE FARMERS' BULLS

CHOICE Short-horn bulls at farmers' prices are the sort offered. They are sired by the good breeding bull, Improver, and out of cows of good breeding. Write to me at once for a good bull worth the money. Address **Pat Kelley, Friend, Neb.**

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood red, for sale. Address

J. E. Barr, R. F. D. 4, Davenport, Iowa.

SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

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RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.

FRANK J. CLOUSS - BARNUM, IOWA

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

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HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
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25 Registered Hereford Bulls

VERY rugged and sappy, by good sires, with good bone, heads, backs and hind ends, will be priced very reasonable. Address, mentioning The Iowa Homestead,
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COWS AND HEIFERS FOR SALE

WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
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I HAVE a few yearling and two-year-old Angus heifers for sale, also three toppy bull calves that were calved in January.
A. G. MESSER, GRUNDY CENTER, IOWA

ANGUS BULLS: A few bulls of desirable ages and of best breeding. Address H. W. Ehlers, Roca Neb.

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MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R
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IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

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D. S. Polled Durhams, reds and roans, both sex. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

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IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
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Get New Blood into your stock from pedigreed Berks selected for years for health, breeding and marketing qualities. Fine selections all ages now. No imperfect stock sold breeders from this farm. Come or write for particulars.
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Large Berkshires

Our Berkshires are handled in such a manner as to insure their usefulness. They do well wherever sent. We keep the most popular families
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Reedsville, Wis.

BERKSHIRES--We can supply your wants in choice boars and sows of April farrow. Pairs and trios not akin, representing as good a line of breeding as you will find. Will please you or no sale. Orlando Jacobs & Son, R. 4, New London, Iowa.

BERKSHIRES

BOARS in service are Longfellow's Premier by Premier Longfellow 68600, Baron Peabody 10th by Baron Duke 88th 91888. Forty fall and spring boars for sale. Mention Homestead and address
GEO. PORTER - STANTON, NEB.

22 BERKSHIRE BOARS FOR SALE

I HAVE two splendid fall boars and 22 good spring boars for sale. These are sired by Rob Roy 10th, a prize winner at Des Moines, and Model Master 2d. Write me at once for prices.
H. L. KEMP - - - HARLAN, IOWA

BERKSHIRE BOARS FOR SALE

I AM offering some good fall and spring boars at farmers' prices. Write me at once and mention Iowa Homestead. Address
JOHN C. MILLER - HARLAN, IA.

HAMPSHIRE SWINE.

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address
A. L. DIEHL, BENEDICT, YORK CO., NEB.

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when waiting. **F. O. Peterson, Galva, Ia.**

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

Gausman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.
C. H. GAUSMAN - SEWARD, NEB.

HAMPSHIRE boars and sows. One yearling boar, heavy boned, well marked, weighs about 400 pounds. Price $50. Edw. Dooley, Selma, Iowa.

VALLEY VIEW Hampshires, either sex. Satisfied customers. Spring boars ready for service. 1 2-yr-old boar, sale or trade. Fred Wheeler, St. Charles, Ia.

JONES HAMPSHIRES---Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

HAMPSHIRE BOARS, SHROPSHIRE SHEEP and geese for sale. Mrs. Helen Coleman, Mt. Pleasant, Iowa.

HAMPSHIRE SWINE.

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. On Oct. 14, 1913, I will sell at public auction 75 Hampshire boars, mostly sired by Messenger Boy 6179, the undefeated grand champion of 1912. **CLAYTON MESSENGER, KESWICK, IOWA.**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address
H. D. DE KALB, **DE KALB, IOWA.**

Sunny Slope Hampshire Swine

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and Interna tional Exposition the past five years. 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

PAULSEN'S HAMPSHIRE SWINE

HAVE NOTHING FOR SALE AT PRESENT. Everything reserved for my Oct. 10th sale at Fremont, Neb. In my last sale 100 head of Hampshires averaged $56.25. I raise the kind that people want, and I buy the best that others breed. Let me have your name on a postal that I may send you a catalog when the time comes. Address **C. P. PAULSEN, NORA, NEB.**

NISWANDER'S HAMPSHIRE SWINE

I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudlo, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address
HOWARD NISWANDER - - - - - KINROSS, IOWA

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address
WOOD & WESCOTT - - SHEFFIELD, ILLINOIS

Fisher's Prize Winning Hampshires

THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address
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HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.
Geo. T. Pearce & Son - Bloomfield, Iowa.

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
J. E. BECKENDORF, WALNUT, IA.

HAMPSHIRE BOARS Best of breeding and splendid individuals. Farmers' prices to move these boars quickly. Address C. S. Bratt, Arapahoe, Nebraska.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
Billie McFarland - - - Syracuse, Neb.

TATRO'S PRIZE-WINNERS

HAMPSHIRE boars and gilts sired by Allen of Geneva and other high class boars for sale at moderate prices. I offer more prizewinning blood than will be found elsewhere and good individuals with it. Address
F. C. TATRO, GENEVA, NEB.

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address
L. F. TETER - SHICKLEY, NEBRASKA

DUROC JERSEY SWINE.

Big Duroc Boars By Wilson's Defender

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am selling at $25 and $30 each. These pigs weigh from 150 to 180 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. I have four sows to farrow in September that I am pricing reasonable. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. If the hog don't suit send him back and get your money. Mention The Homestead when writing.
I. J. WILSON, WEST BRANCH IOWA

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col. and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. We also offer twenty extra good growthy spring gilts for sale, sired by Proud Col. and out of a Model Wonder dam. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address
HANKS & BISHOP - - - - - - NEW LONDON, IOWA

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - DICKENS, IOWA

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. **Fifty head sired by King of Cols. Again; Big Bone, Climax and Crimson Col. Everything immune.** Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

IMMUNE RED HOGS

DOUBLE TREATMENT
Crimson Wonder and Ohio Chief Strains
GEO. T. WHITE DALLAS CENTER IOWA

DUROCS---April Pigs For Sale

Good lengthy boars and gilts of the best breeding.
L. L. WOODS - - - GRINNELL, IOWA

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model II., Crimson Ohio Chief, Crimson Chief II. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - FREDERIKA, IOWA

50 Immune 50
DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
Wm. BAUER - - - AUDUBON, IOWA

Duroc Jersey Fall Boars

VACCINATED with the double treatment. Choice breeding lines. For sale at reasonable prices
L. L. DE YOUNG - SHELDON, IOWA

DUROC JERSEY SWINE.

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - - - - SYRACUSE, NEBRASKA

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection**, and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address **R. J. HARDING - - - - - - - - - MACEDONIA, IOWA**

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address
B. W. HUNT - - - - - - - - - - - DENISON, IOWA

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th bred boar. Order at once, write or come see. Farm adjoins town.
A. T. BOSELY - - - - - - - FAIRBURY, NEBRASKA

MERRICK'S DUROC JERSEY BOARS

ARE the kind that will make good on your farm. They are as well bred as possible to obtain and they are individually of the right sort. Farmers' prices will take these good ones if ordered at once. Write for prices and description at once. Address, mentioning The Homestead,
F. E. MERRICK - - - - OSCEOLA, NEB.

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - - - - MARQUETTE, NEBRASKA.

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - GRISWOLD, IOWA.

25---DUROC JERSEY BOARS---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address
E. A. CALKINS - - - - - RUTHVEN, IOWA

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - - DE WITT, NEBRASKA

60 Extra Choice Duroc Jersey Boars

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select**, and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Write me or come and see these boars. Kindly mention Iowa Homestead. Address
H. S. FAIN - - - - - EMMETSBURG, IA.

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - ALEDO, ILLINOIS

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

50 Immune Duroc Jersey Boars

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr.. Splendid boars at $25 and $30. Everything vaccinated and ready to ship.
HEIKO GRUIS - GEORGE, IOWA

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

12 DUROC JERSEY FALL BOARS

I AM offering 12 good fall boars for sale sired by Col. Seek 114971, out of Critic and Grandmaster Col. sows. Will also sell Golden Model XI. Write me for prices at once. Address
H. V. CRONK - - - WATERBURY, NEB.

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863**, and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

Growthy Duroc Jerseys

SPRING boars by R. J.'s Chief and King Gano, out of dams of strong Crimson Wonder and Model Chief breeding. Big-bone, size, quality and finish. Good pigs at fair prices.
J. C. PORTER, OGDEN, BOONE CO., IA.

Duroc Jersey Boars

WE have fall and spring boars that have quality, that we are closing out. A number of these are prospects for herd boars. Satisfaction guaranteed.
J. H. Berry & Sons, R.F.D. 6, Iowa City, Ia.

IMMUNE DUROC BOARS FOR SALE

VACCINATED by double method. Four head of fall yearlings and 25 big, growthy, spring boars. Herd boars, Clover Dale Chief 117753 and Lincoln Model 133869. Dams of best breeding. Visit or write
U. G. BURTON - STORM LAKE, IOWA

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - AMES, IOWA

Boars For Sale

Sired by CRIMSON WONDER AGAIN

MODEL Chief 8th and Cherry Chief. Big, husky fellows with bone and size. Priced to move them. Address
H. S. ALLEN - - RUSSELL, IOWA

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder and out of choice sows. Also some by the great Widle's Wonder. Prices to move these hogs early. Write today. Address
WM. BORNEMEIER - ELMWOOD, NEB.

DUROC JERSEY SOWS

BRED for August and September farrow to some of the best sires of the breed. 180 spring pigs. Male pigs for sale at reasonable prices. Gilts reserved for winter sale.
F. CHRISTENSEN, FAIRMONT, MINN.

DUROC GILTS, $15 to $30

I HAVE a choice lot of early and late spring gilts; also some fall gilts that I will sell at above prices. Will also breed them for small sum additional. A few spring boars. Address
WM. RETZLAFF, BENNETT, NEBRASKA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - WOODWARD, IA.

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Supberba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - RYAN, IOWA

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - West Liberty, Iowa

JOHN JUSTICE, Ankeny Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

KING GANO 13311

1st Prize Junior Yearling at Des Moines

I AM offering **40 BOARS FOR SALE**, most of which are sired by **King Gano 13311**, the 1st prize junior yearling at Des Moines, 1913, and the greatest yearling ever seen at the fair. He weighs 725 lbs. at 17 months and is the sensation of the year. Write me about these boars at once and mention The Iowa Homestead. Address
O. E. OSBORN - - - - - WESTON, IOWA

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - ALGONA, IOWA

30 High-class Duroc Jersey Boars 30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959**, and 23 extra choice spring boars sired by Defender 2d, G.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $20 to $40 if ordered now.
R. F. AIKMAN - - - - AUDUBON, IOWA

20 Immune Duroc Jersey Fall Boars 20

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Everything has been vaccinated and are immune. Order at once. Address
GEORGE C. EVERTS - - - - AUDUBON, IOWA.

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King**, and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address **F. H. DICKEY, EMMETSBURG, IOWA**

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you if you come to the farm. Address
J. B. ASHBY - - - - AUDUBON, IOWA

60 CHOICE DUROC JERSEY BOARS

FOR this season's trade. Sired by such hogs as Highland K, (junior yearling champion at International, 1910), Prince Model, Col. Freed and other good ones. All line-bred Col. boars and out of dams by Prince Model, Model Defender, Col. Model, Regulas and others. I am pricing these boars right and solicit your patronage. Address, mentioning The Iowa Homestead.
M. A. McWILLIAMS - - - - - SUNNYSIDE STOCK FARM, WALL LAKE, IOWA

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - STORY CITY, IOWA

38--Sol Frank's Duroc Jersey Boars--38

I AM offering 38 head of good spring boars, of the large, big-boned, quality kind, sired by **Sol's Crimson Wonder, Frank Holliday** and **The Harvester.** If you want a herd boar prospect, I have them. Prices $25.00 to $50 00. Mention Iowa Homestead when writing me. Address
SOL FRANK - - - - - - - SIOUX CITY, IOWA

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune**, and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - IRETON, IOWA

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

WELL BRED DUROCS

WE have the best lot of boars for sale that we have ever offered. They are sired by Chief Select, Jr., 103747; B. & S. Golden Model, 129083; Model Chief, Jr., 130319 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write us for prices if you want a good boar reasonable. Mention Homestead
BALMAT & SWALE
Mason City, Iowa, and Fredericksburg, Iowa.

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

DUROC FALL BOARS

Some choice fall boars, good farmers' stock at $20.00 each. Some at $18.00. Earl Roberts, Ulysses, Neb.

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,
P. W. WEBERG - DENISON, IOWA

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

DUROC JERSEY BOARS

I HAVE a fine lot of fall and spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - VICTOR, IOWA

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfield's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - FAIRMONT, NEB.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - DAVIS CITY, IOWA.

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

When writing to advertisers please mention The Homestead.

CHESTER WHITE SWINE.

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - - ELLSWORTH, IOWA

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead.
WM. A. HOOVER, OSKALOOSA, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - - - PRESCOTT, IOWA.

Nagle's Prize-Winning Chester Whites

WE have a fine lot of boars and gilts sired by our Prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
E. L. NAGLE & SON - - - - - DEEP RIVER, IA.

SUNNY SLOPE CHESTER WHITES

160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
W. E. GAFFEY - - - - - - STORM LAKE, IOWA

Stewart's Immune Chester White Boars

I AM offering 60 head of the best boars you have ever seen for the money, sired by my splendid herd boars Iowa Boy and Crescent. These have all been vaccinated and are immune. Write me at once for description and prices, and mention Iowa Homestead. Address
J. H. STEWART, - - DICKENS, IOWA

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - - FARMINGTON, IOWA

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent young boars, some choice herd headers. Also 50 good spring boars. These pigs have been immuned. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

GRAND VIEW CHESTERS

GOOD ONES, March and April pigs, sired by **Ben Hur 20329** by Chief's Council 16397 by Chickasaw Chief 14901 and **Fancy Goods 20327** by Major Jr. 19297. Aberdeen Angus cattle. 2 Blackbird bulls for sale. Write for prices.
T. A. STEVENSON - - - SHANNON CITY, IOWA

SATRE'S HIGH-CLASS CHESTER WHITES

FARMERS' pigs at Farmers' prices. Herd boars of best breeding and quality, and that have won at Iowa State Fair. Brood sows by Chief Select and other sires of note. Come and see me or write for prices.
G. O. SATRE - - - - - - - - - - JEWELL, IOWA

C. C. EVANS

LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II, that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa

Prizewinning Chester Whites

A FINE lot of extra choice spring boars, also gilts and sows for sale. Mostly the get of the great Keep On Winner. Write today.
H. L. BODE - - - FRIEND, NEB.

BIG, SMOOTH CHESTER WHITES

WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

MURRAY'S CHESTER WHITES

CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
CHAS. H. MURRAY - FRIEND, NEB.

DUNBAR'S CHESTER WHITES

100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
W. H. DUNBAR, JEFFERSON, IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

Bloom's Chester Whites

25 HEAD of choice fall boars by Pathfinder 2d, Pride of the West and other good boars. Size, heavy bone and good. Immune from double treatment. Call and see these hogs or write to
EARL BLOOM - BRIDGEWATER, IOWA

PLAINVIEW CHOICE BOARS

CHESTER White fall and spring boars by the great Plainview Choice. Also some Shorthorn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

Crosier's Chester Whites

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

BARR'S CHESTER WHITES

VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
W. T. BARR - - - AMES, IOWA

FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address
H. MEYER, STAPLEHURST, NEBRASKA

CHESTER WHITE BOARS

FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vanderslice Bros., Cheney, Nebraska

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

CHESTER WHITE BOARS

I HAVE a fine lot of March and April boars sired by Joe O. K., Perfection Chief, Chief Combination, Silver Tip and Elmore's Choice that I will sell very reasonable. I guarantee the boars to please you or you can send them back. Mention Homestead.
H. T. D. HENDERSON - KEOTA, IOWA

50 CHESTER WHITE

SPRING and winter boars, wonderful length strong back and feet, best of head and ears. 50 spring and winter gilts. These hogs carry the choicest blood lines of the breed. Priced to sell. Address
HARRY HURLESS - OGDEN, IOWA

Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

Turner's Chester Whites

EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
AMOS TURNER - WILBUR, NEB.

ROGERS' O. I. C.'s Positively as good as any. Prices moderate. For an extra select boar, write N. R. Rogers, Peru, Neb.

O. I. C. and Chester White. Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

O.I.C. Spring pigs, either sex. Express prepaid. Address W. Doolittle, Woodland, Mo.

POLAND CHINA SWINE.

30 BOARS 30

CHOLERA IMMUNE

Sired by my great boar,

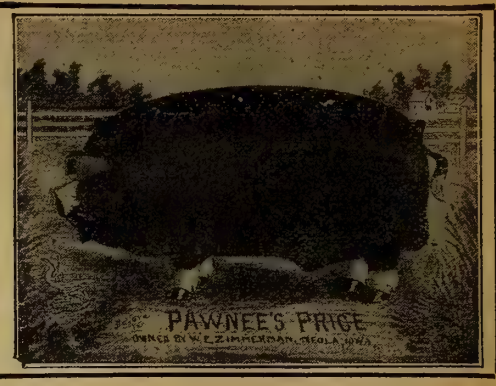
PAWNEE'S PRICE,

one of the largest and best big-type Poland China boars in the state. Everything

VACCINATED and IMMUNE

Write me for prices and description at once.

W. E. ZIMMERMAN
NEOLA - - - - - - IOWA



Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices Address
JOHN I. DRIPPS - SPRINGVILLE, IOWA

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.
JOHN C. NYRUP - HARLAN, IOWA.

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once
A.B.Heckenlivly - - - Cozad, Nebraska

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.
Smith Bros., Rt 2, box 76, Lawler, Iowa.

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King**, Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.
JOHN H. FITCH - - - LAKE CITY, IA

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to
C. B. KNERR, STROMSBURG, NEBRASKA

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address
C. H. DRAKE - - - - LISBON, IOWA

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale. We are pioneer breeders of Nebraska. Write today
J. W. COX & SON - ARAPAHOE, NEB

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio.

350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

TAMWORTH SWINE.

TAMWORTH SWINE

KNOLL SLOPE FARM offers you breeding stock that prove profitable. Boars and gilts no akin. All of high quality. Address
C. C. ROUP, Proprietor, KALONA, IOWA
Express office Iowa City, Ia.

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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Veterinary Editor The Homestead.
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20 FALL BOARS weighing 300 to 450 pounds, sired by the 1,000-pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. My herd has been immuned with the double treatment. Mention The Homestead when writing.
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SOME very fine spring boars by Young Combination, also some extra select fall boars by Great Victor. Only the best have been reserved, and they are priced to move. Write me for a bargain.
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SPRING boars sired by Maple Grove Exception and Columbus Again. These are out of sows that are of the very best blood lines, and have made good as brood sows. Address
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SPRING pigs by Big Jumbo, a grandson o S Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.
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FALL and spring boars now ready to ship. Sired by Highland Boy 183191, weighing 800 lbs. just in breeding condition. My hogs are bred for size, bone and quality. Write me your wants and I can please you.
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MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D 189573, a son of the great A Wonder 107353.
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FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address
Homer L. Faulkner, Box 117, Jamesport, Mo.
Not the originator, but the preserver.

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.
C. W. CREES - COON RAPIDS, IA.

40 SPRING AND FALL BOARS 40

THE stretchy, smooth coated, mellow kind, sired by Orange Boy (son of Big Orange). This is big-type Poland China breeding without roughness—the Expansion kind. Cut prices. Good health.
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WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address
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50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495.
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FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.
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BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires: Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

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POLAND CHINA SWINE.

50 Big-type Cholera Immune Poland China Boars For Sale at 25 Dollars Each

WE HAVE 50 HEAD of big spring boars **all big enough for service** that we are going to sell at **25 dollars each**, a price you can get for them on the market when you get through with them. **They are sired by the 1000-lb. Big Bone 2d, the 900-lb. Big Expansion, the 600-lb. yearling Chief Leader** and other boars. **The dams are sows of the extreme size, weighing from 500-pound yearlings up to sows of over 800 pounds.** If you want one, send your check the first letter. We have made the price so you lose nothing if you want a boar. **We guarantee safe delivery. Guarantee them breeders.** Don't write us for a two-page description; we will answer no letters at this price, but guarantee you a pig worth the money if you want a boar. Address, mentioning The Iowa Homestead,

W. H. COOPER - - - - - - - - **HEDRICK, IOWA**

BIG BONE 2D 161497.

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $375 and $335 spring boars in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 700 and 800 pounds. We want to sell these boars and we are pricing them at from **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - **CLARINDA, IOWA**

BLUE VALLEY HERD OF POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big-type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for discription and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

OLD-FASHIONED SPOTTED POLAND CHINAS

SIRED by three of the largest boars of the breed. March and April pigs, either sex, now ready to ship. $20.00 to $35.00. Best breeding, highest quality.

J. D. Gates & Sons, Ravenwood, Mo.

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - - **OCHEYEDAN, IOWA**

Fesenmeyer's A Wonder---Big Joe Boars

I HAVE a few choice boars for sale sired by old **A Wonder, Big Joe** and other good boars. Write me about these at once. Address

HENRY FESENMEYER - - - - - - - - - **CLARINDA, IOWA**

SPRING BOARS by NEBRASKA WONDER

OUR entire spring crop of Poland China boars for sale at private treaty. These are fully equal to the sensational lot of fall boars we sold last spring. They are from as good stock as within the state. Write us today and we will try to save you some money. Address, mentioning The Homestead,

BEALL & JACKSON - - - - - **ROCA, NEBRASKA**

THE CHAMPION AGAIN EXPANSION

HEADS our Poland China herd. We have some of the best spring boars that we ever raised for sale. They are by Big Bone, T. A. Sampson, Again Expansion and Mabel's Wonder. Everything has passed through the disease. None better anywhere and prices the lowest. Address

C. B. POWERS, - - - - **AURORA, NEB.**

EXTRA BIG POLAND CHINA BOARS

WE have a number of Poland China spring boars, the extra big ones. Quite a number bred by Peter Mouw, the remainder just as big and heavy boned and sired by a son of Herod, he a litter mate to the famous Samson. None better anywhere and we would like to move them soon. Write or come and see.

W. H. DEIGAN - - - - - **RAYMOND, NEBRASKA**

BLUE RIBBON POLAND CHINAS

FOR the next thirty days I will name a price on the choice of my forty Poland China spring boars of $25. Others just as good but a little younger at $20. This is not money enough for this class of hogs, but I have them to sell and want them to go quick. They are all sired by Blue Ribbon Hastings, a prize-winner wherever shown. If in search of something toppy and at small money, write me. Mention Homestead.

W. J. EAVEY - - - - - **GENEVA, NEBRASKA**

POLAND CHINA BARGAINS

AM making special prices to move the choice bunch of early spring boars on our farm. They are great big, smooth fellows of excellent breeding and go at $25 and $30. Also the finest kind of a bunch of fall pigs that go at $12.50 for choice ones at weaning time. Address today, mentioning The Iowa Homestead,

JOHN L. NAIMAN - - - - - **ALEXANDRIA, NEB.**

C. F. ADAMS' SALE OCTOBER 9, 1913

I WILL sell 40 Poland China boars, the best I have ever offered and also a fall yearling by Peter Mouw's Big Jumbo. These are the biggest, best, longest, heaviest bone pigs I have ever owned. Many prospects for 1,000 pound herd boars. Write for catalog.

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C. H. PORTER - EAGLE GROVE, IOWA

MY entire herd have been given the simultaneous treatment and are now in good thrift and cholera proof. Boars as big and good as anybody has for sale, and of the line of breeding that never fails to get them big and good, the real size and quality kind. They are better than I have raised before.

AN EXCELLENT HERD BOAR FOR SALE

ONE of the very best Poland China boars within the state. A proven breeder, excellent make up and of splendid pedigree. Competent judges pronounce him absolutely as good as to be had. Also spring boars sired by him. Write me today for breeding and prices. Mention The Homestead

J. A. JACKSON, - - - **RAYMOND NEB.**

MAMMOTH SMOOTH POLANDS. THE SMITH KIND

THIRTY-five head of the very select of our spring boars are for sale. They are as well bred as the breed affords and for size and smoothness and feeding quality, they can't be beat. Write us today, mentioning Homestead. **ALBERT SMITH & SONS** - - - - - **SUPERIOR, NEB.**

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 184793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

BIG-TYPE POLANDS

I HAVE a grand lot of March and April boars and gilts sired by **Quality King,** a grandson of Long King and **O. K. Price,** by Chief Again Price, also a few open yearling sows. I breed for size and quality. Herd largely of Mouw, Lawson, Johnson and Wheeler breeding. My prices are low and my hogs will please you. Mention Homestead when writing.

H. CRABTREE, - - - **BAXTER, IOWA.**

FOUR HIGH-CLASS Poland China Fall Boars

I AM offering four splendid fall boars for sale, sired by the 1,000 lb. boar, **Big Orange,** and **Colossus.** Two of these are out of Colossus and A Wonder dams and two are out of a Giantess dam. Also thirty spring boars by Big Orange and Colossus. Write me for prices and mention Iowa Homestead. Address

L. R. M'CLARNON - - - - - **BRADDYVILLE, IOWA**

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - - **MINDEN, NEBRASKA.**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them over or write. Address

J. R. HIGGINS & SON - - - - - **DEWITT, NEB.**

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - **KELLEY, IOWA**

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead,

WM. KEEP - - - - **ATLANTIC, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.

A. ROESLER, - - - - **WILCOX, NEB.**

SNYDER'S EXTRA BIG POLANDS

A CHOICE lot of extra big spring boars by well-known sires and out of sows of choice individuality and blood lines. I wish to close these boars out within the next thirty days and am pricing them accordingly. If you want big hogs for little money write me.

PERRY A. SNYDER - - - - **CARLETON, NEBRASKA**

35 Choice Poland China Boars 35

I AM offering 35 head of the best big-type Poland China boars I have ever raised. These go at reasonable prices if ordered soon. Address, mentioning The Homestead,

FRED SEXSMITH - - - - **ORIENT, IOWA**

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address **J. A. BEAUMASTER, ELMA, IOWA**

MARMION'S BIG POLAND CHINAS

I CAN furnish you with as good a pig as can be found in the corn belt. Pigs sired by five of the best boars of the breed, some by one of the good sons of Rood's Giant and out of a Long King sow. Also a litter by Big Knox.

B. F. MARMION - - **R. F. D. 2, FARMINGTON, IOWA**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - - **R. F. D. 1, YORK, NEBRASKA**

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mable's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART** - - - **HARLAN, IOWA**

Poland China Boars---Bargains for Quick Sales

I HAVE a dozen spring boars, big, growthy, big bone and good quality that I will sell at mighty low prices if taken soon. Must have room. Address, mentioning The Iowa Homestead,

J. H. COPE - - - - - - - - - **CARLISLE, IOWA**

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Big Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - **GRINNELL, IOWA**

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

Be an Auto or Tractor Expert

Scores of Positions--Good Paying Positions--Are Open!

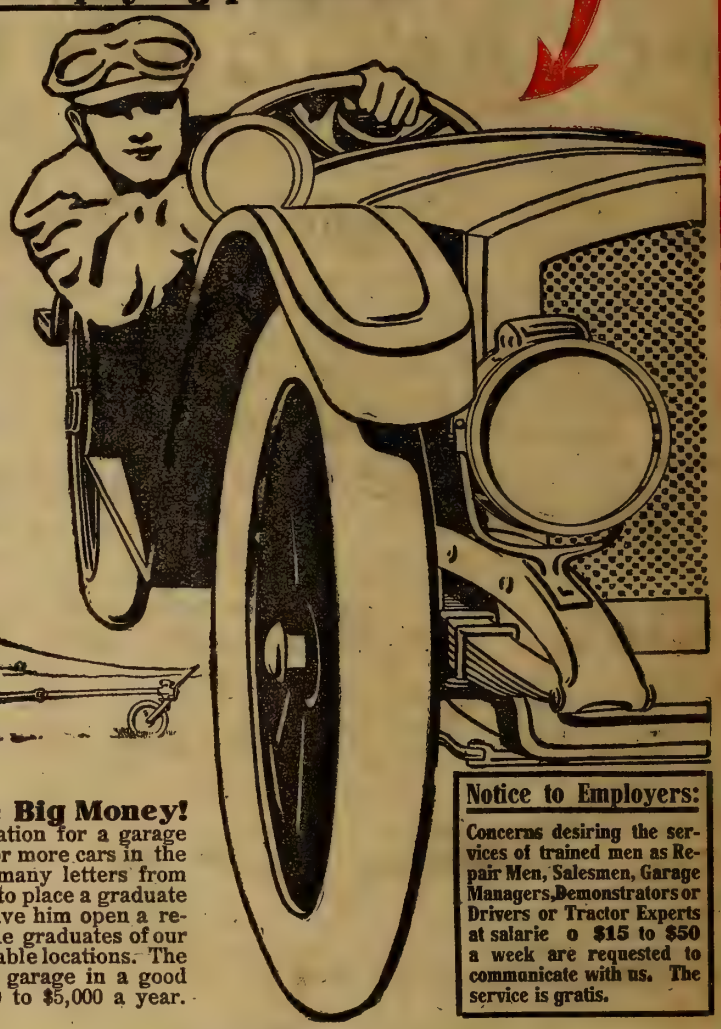
Six weeks from the day you commence your studies in this great practical school you will be able to repair any make of automobile and drive any car on the market. Prepare yourself to make a salary of $75 to $200 a month, or go in business for yourself as garage owner or automobile agent and make from $2,000 to $5,000 a year.

After a thorough inspection of our institution, our equipment and our thorough, practical way of teaching our students, THE REPRESENTATIVE OF "THE IOWA HOMESTEAD" SAID:

"Mr. Rahe, you have a wonderful institution. It is easy to see why it is that your graduates get the best paying positions."

Every visitor, every student, every graduate says the same. The Automobile Training School is an institution that invites inspection. It is a practical school. We have the best equipped automobile and tractor school in America. Thousands of dollars' worth of Automobiles, Tractors, Engines, Magnetos, Chassis, Gears, Lathes—in fact every kind of automobile equipment and machinery are here and **used** daily to instruct our students. Our Garage and Repair Department is one of the largest in Kansas City or the West.

Scores of Automobiles are brought here for repair and adjustment. Our students lay aside their good clothes, don overalls and under the careful guidance of our officers and members of the faculty, **learn by practical experience** how to repair quickly any make of automobile. This is a kind of instruction that other schools cannot offer. In this great Garage and Repair Department our students are taught the details of garage management, how to buy and sell automobiles as well as to do Expert Repair Work. It is here they gain that **practical experience** and **expert knowledge** that secures for the graduates of this school the highest salaried positions as Auto Salesmen, Demonstrators, Garage Managers, Repair Men and Drivers.



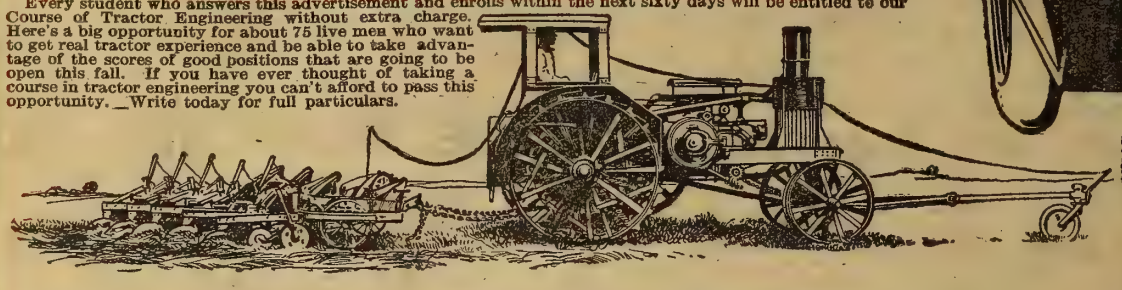
Earn $75 to $200 a Month

Automobile Training School graduates are in demand. The letters reproduced below are from the Studebaker Automobile Company, the Winton Motor Car Co., and others regarding the efficiency of our graduates. We will gladly send you letters from our graduates, many of whom formerly earned only day wages, but who now have responsible and good paying positions. Many are in business for themselves and making big money. It is a fact easily proven that the Automobile Training School of Kansas City has many times more graduates holding responsible positions than all other Automobile Schools in the West **combined.**

We have just added to our equipment a complete "Deaco" starting and lighting system and are in a position to offer you more in this branch of study than any other Auto School in the West. We have a brand New "Deaco" System of the latest model for your instruction; lighting, wiring and taking expert care of self-starting systems. Factories are paying big salaries to experts in lighting, wiring and ignition. You'll have every advantage—you have a brand new 1914 model to work from.

TRACTOR Course FREE!

Every student who answers this advertisement and enrolls within the next sixty days will be entitled to our Course of Tractor Engineering without extra charge. Here's a big opportunity for about 75 live men who want to get real tractor experience and be able to take advantage of the scores of good positions that are going to be open this fall. If you have ever thought of taking a course in tractor engineering you can't afford to pass this opportunity. Write today for full particulars.



The woods are full of ordinary men. Jobs for them are scarce. Good opportunities are open only for **trained, competent** men. Be one of them. You can earn big money in the auto business provided you prepare yourself for the right kind of work. A large auto dealer said recently: "There are not half enough competent reliable automobile men to supply the demand in the west, let alone the big cities in the east."

Auto experts earn $75 to $200 a month, some of them a great deal more. Scores of our graduates now hold responsible places because they can do expert work. In every city the demand for trained automobile experts is enormous. For years to come this condition will exist because the auto truck and tractor business is still in its infancy and it will require thousands of trained men to fill the need in these branches alone.

Garage Owners Make Big Money!

Almost any town is a good location for a garage and repair shop if there are ten or more cars in the locality. In our office we have many letters from business men who have asked us to place a graduate of our school in their city, and have him open a repair shop. We are glad to help the graduates of our "C" and "D" course to find profitable locations. The earnings of a properly conducted garage in a good community should be from $1,000 to $5,000 a year.

Notice to Employers:

Concerns desiring the services of trained men as Repair Men, Salesmen, Garage Managers, Demonstrators or Drivers or Tractor Experts at salarie o $15 to $50 a week are requested to communicate with us. The service is gratis.

Read These Letters From Automobile Manufacturers

THE STUDEBAKER CORPORATION.
Automobile Department,
Kansas City, Mo.
Automobile Training School,
Kansas City, Mo.

Gentlemen: No doubt you will be pleased to learn that one of your graduates has been promoted to the position of Road Expert. The balance of the boys in our employ who came from your school are doing exceptionally good work.

You have the unqualified endorsement of the local Studebaker Agency.

Yours very truly,
The Studebaker Corporation,
By J. L. Purcell,
Manager Retail Dept.

WINTON MOTOR CAR COMPANY.
Manufacturers of
WINTON MOTOR CARS
"Winton Six"
Kansas City, Mo.
Automobile Training School,
Kansas City, Mo.

Dear Mr. Rahe: Our master mechanic at the Kansas City Branch, Mr. Huckins, is an auto expert in every sense of the word. He tells me he owes everything to your practical training school. It is a pleasure to see the splendid work you are doing. The business needs more trained automobile men. Yours truly,
THE WINTON MOTOR CAR CO.
By Geo. Arbuckle, Mgr.

W. R. DEMSTER.
High Grade Auto Repairing
Kansas City, Mo.
Mr. H. J. Rahe, Pres.,
Automobile Training School,
Kansas City, Mo.

Dear Mr. Rahe: There isn't any question in my mind that your automobile school is the best in the country.

I, for one automobile repair man, would not think of having a student who came from any other school.

Yours very truly,
W. R. DEMSTER.

THE ADMIRAL GARAGE AND REPAIR WORKS.
Kansas City, Mo.
Mr. H. J. Rahe, President,
Automobile Training School,
Kansas City, Mo.

My Dear Mr. Rahe: For the past three years nearly all of our mechanics have been graduates of your school. It is a pleasure to state that they handle delicate repair work on magnetos and coil boxes like factory experts. It has often puzzled the writer that such expert knowledge could be drummed in a man's head in such a short time. Wishing you continued success, we remain,
ADMIRAL GARAGE,
W. A. Slusher, Mgr.

SCHERRER AUTO REPAIR CO.
Automobile Specialists
Automobile Training School,
Kansas City, Mo.

Gentlemen: The other night at a meeting of the Automobile Repairmen's Association, the members in general discussed the plan whereby they could hire competent Auto Repairmen.

It was then that I learned that nearly every garage repair shop and agency in Kansas City are hiring your students exclusively.

Hereafter when we are in need of competent help we will communicate with you.

The Scherrer Auto Repair Co.
By Chas. J. Scherrer, Mgr.

NO BOOKS USED— NO TOOLS TO BUY

The Automobile Training School has no pretty picture books, and offers no charts or correspondence courses. These things don't teach you the automobile business so that you can go out and earn a big salary. Our students receive individual, practical instruction under practical conditions on real up-to-date automobiles. The progress of each student is carefully watched by our instructors.

Our Complete "C" Course

Our complete "C" Course is a Life Scholarship and consists of all practical work and includes eight weeks' instruction in Driving, Vulcanizing, Practical Repair Work, Tires and Tire Trouble, Forge Work, Lathe Work, Welding and Assembling, Automobile Salesmanship, Shop Management, Lubrication and Oils, Commercial Trucks, Electric Cars, Gasoline Engines, Garage Management, Automobile Laws, Magnetos and Automobile Advertising.

Special Offer to The Iowa Homestead Readers

I have a special offer to make a limited number of readers who answer this advertisement right away. I am authorized to make you a special low price on our $100 "C" Course which includes a life scholarship and our complete Tractor course without extra charge. Your tuition covers all expenses at the school. We have no extras. **Good board and room near the school at special low rates to our students.** Here is a chance you may never have again to fit yourself for the fastest growing, best paying industry the world has ever known. Write me TODAY.

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Write today for our big free catalog. It is interesting and instructive—does not cost you one cent and places you under no obligation whatever. You need it for your own sake, not mine. Some of the brightest wide-awake young men in the West are here in school now. Are you going to join them? There's no profit in waiting. Write me today, or better yet, get on the train, come to Kansas City, and let me show you what a great big splendid opportunity there is here for you.

HENRY J. RAHE, President

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Largest in the World
1052 Locust St., Kansas City, Mo.

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Dairy Prospects

$950
Completely equipped f. o. b. Toledo

Overland

$1075
With Gray & Davis electric starter and generator

Value up! Price down!

THE infinite advantages and manifest economies of large, unrestricted automobile production must be clear and evident even to those who have neither experience nor conception of what governs, controls and limits a manufacturing institution. It is a certain and established fact that the largest automobile producer can readily get his manufacturing costs far below the "average" and thus undersell the "market."

Each year Overland *value has increased*—

Each year Overland *prices have decreased*—

Each year the Overland *output has been enlarged*—and it is the greater production that makes feasible an *increased car value* at a *reduced price.*

Our output for 1914 is 50,000 cars, which is the world's largest production on this type of car.

And every Overland value increase is just as visible, just as conspicuous and just as actual as the material reduction of our selling price. While other manufacturers refer you to more comfort, more grace, sweeter running motors and other *invisible* and more or less *imaginary* incidentals, *we give you in addition to more comfo. t, grace and beauty, increased value that is substantial and tangible.*

Look at the newest Overland.

The wheelbase has been *increased* to 114 inches.

But the price is lower than ever.

The motor is *more powerful.* It has been *increased* to 35 horsepower.

But the price is lower than ever.

The tires are *larger*—33 x 4 in. Q. D.

But the price is lower than ever.

The equipment includes such *costly additions* as electric lights all around—head, side and tail—even under the dash.

But the price is lower than ever.

The body is designed with *full cowl dash* and finished in *Brewster green* with lighter green striping and trimmed in polished nickel and aluminum.

But the price is lower than ever.

Then there are Timken bearings; a $40 jeweled Stewart Speedometer (set so that it can be read from the driver's seat) an electric horn, deeper upholstery, and an 18-inch steering wheel.

But the price is lower than ever.

And so we could go on, almost indefinitely, giving new additional features—new value increases—one after the other.

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114-inch wheelbase
Timken bearings
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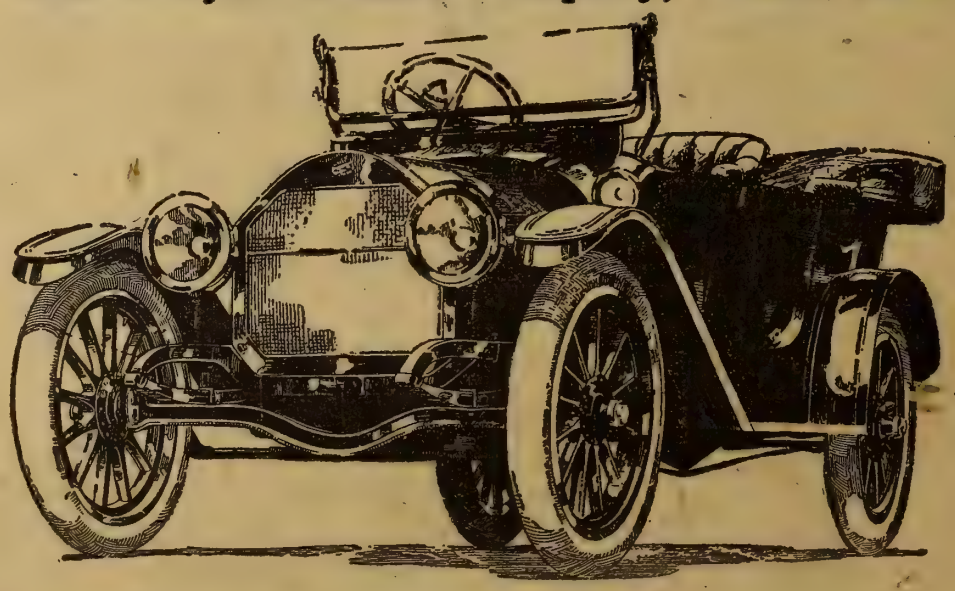
Model R Schebler carburetor
Three-quarter floating rear axle
33 x 4 Q. D. tires
Cowl dash



Brewster green body with light green striping, nickel and aluminum trimmings
Deeper upholstery
Mohair top, curtains and boot
Clear-vision windshield
Stewart speedometer
Electric horn
Flush U doors with concealed hinges

The Iowa Homestead

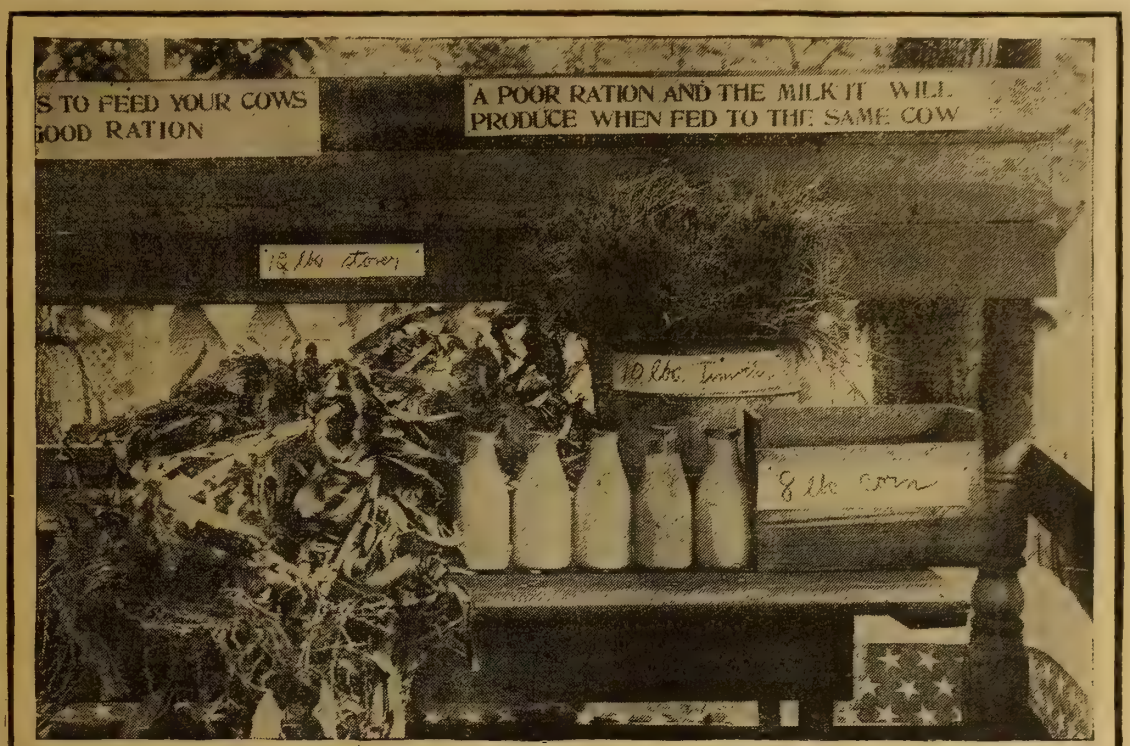
DES MOINES, IOWA, THURSDAY, OCTOBER 23, 1913.

Getting Profit From The Cows

How the Problem of Feed Determines Whether the Cows of the General Farmer Are Earning Their board or Should be Sent to the Butcher Block—By A. A. Coult

A LARGE part of the profit from dairy farming depends upon the feeding, yet very few farmers really know what is a well-balanced ration. The larger dairymen have given more attention to the business, and most of them know just how much milk and butter fat each cow produces a year, as well as the proper proportion of grain and roughage to feed. A great many farmers have become interested during the past few years in keeping records of milk and butter-fat production and have found that many of their cows show a financial loss, placing the cost of feed and care against the revenue from the milk products. Naturally they get discouraged and want to dispose of the "boarders" as soon as possible. P. M. Brandt, instructor in dairy husbandry at the University of Missouri says that a large part of the financial loss may result from improper feeding of the same cows. Experiments have been made at the college station at Columbia, and from the results obtained, Professor Brandt has made up an exhibit showing the usual ration, and also a good ration for one day, and the results. The usual, or poor ration is composed of: 12 pounds of corn fodder, 10 pounds of timothy and 8 pounds of shelled corn, which produces five quarts of milk. This ration is available for almost every farmer and seems to be the one commonly fed. The good ration consists of: 30 pounds of silage, 10 pounds of clover and 8 pounds of mixed grains, composed of shelled corn, 4 parts; bran, 2 parts, and oil meal, 1 part. This ration fed to the same cow which was producing only 5 quarts of milk on the poor ration should produce 13½ quarts of milk per day. However, it is not intended to convey the impression that changing the feed one day will make a difference in milk production the next day. It will not, but in a few days there should be a noticeable increase in the milk production. The quantities given for feed and results are based on an average of a number of experiments. If the farmers who have been feeding the poor ration to their cows and are about decided to get rid of them will try the good ration, beginning when the cows are fresh, for a reasonable length of time and give them a fair trial, no doubt some fairly good milk-producing cows will be saved from the butcher's block until better milk producers can be obtained, the present ones being able to show a profit under proper feeding. If the cows do not respond with an increased milk production after being fed the good ration for a reasonable time, they should be disposed of.

It is highly important that the widest publicity should be given to sensible feeding methods at this time because the tendency to slaughter calves even from the best cows has been entirely too great during the last five years. The country is short of good cows at the present time and will be for years to come, and it is, therefore most desirable that even mediocre cows be fed in such a way so as to bring them up to the point of maximum production. Possibly every dairyman cannot change the record of a cow from five to thirteen quarts by altering the methods of feeding, but it is possible by the sensible use of feeds to at least double the production of an ordinary cow. It is also true that all dairymen do not have at hand a supply of ensilage and while in this respect they are handicapped, yet after all corn fodder of good quality may be fed with reasonable expectation of obtaining good results. Equally good or better returns will be obtained by cutting out the corn fodder and substituting clover hay in the place of the thirty pounds of ensilage that is recommended by Professor Brandt. It must be remembered that in the matter of pounds there is a wide variation between cows, but the relation of one ingredient to another as given should be maintained regardless of the number of pounds used daily. An increased production to more than two and one-half times the original quantity, on feed costing practically the same money, is worth consideration from every farmer who owns at least one cow.



A POOR RATION, YIELDING BUT FIVE QUARTS OF MILK.

A GOOD RATION, YIELDING 13½ QUARTS OF MILK, WHEN FED THE SAME COW.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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SHIPPING WATER INSTEAD OF CORN.

The United States Department of Agriculture estimates that the farmers of the United States ship practically 500,000 tons of valueless water each year as a constituent part of the new corn crop. This extra weight would be sufficient to load a freight train 110 miles long.

A thorough investigation of the problem relating to the surplus moisture in food stuff is being made by the department in the hope of cutting off a very decided waste. Under the present system the shipping of this useless water has much to do with the great shortage question and has still more to do with reducing the quality of the product on account of the deterioration of the shelled corn before it is finally consumed.

Attention is called to the fact that compared with those of foreign countries American methods are exceedingly wasteful in this regard. An example of this is shown in the manner in which potatoes are shipped in Germany. In that country all culls and faulty potatoes which, in this country, are thrown away, are dried so as to remove all excess of water and then shipped to various points for stock food purposes. Potatoes in their natural state contain upwards of 70 per cent of moisture and it can be easily understood why long shipments of this valueless material contribute, at least to some extent, to the high cost of living.

In the press report that has been sent out by the department of agriculture no specific remedy is suggested in regard to the reduction in the percentage of moisture in corn that is shipped. Presumably, it is the desire of the department to encourage farmers to grow varieties of corn that will mature and that, therefore, will be well dried out at cribbing time, but, as a matter of fact, in order to accomplish anything like practical results along this line sensible economy can only come through improved systems of drying. Corn is never cribbed until freezing weather and excess moisture largely remains in the corn until it is thawed out. If it is shipped, therefore, any time during the winter months the extra supply of water must be carried to market unless it is artificially dried before being shipped. While the problem is one that interests farmers immensely, yet after all it is of equal moment to the grain merchant as well as to the consumer. It is only a question of introducing an economical drying method that will more than offset the waste that is now involved in shipping.

SAVING THE CALVES.

There were 10,000,000 calves slaughtered in the United States last year, each calf approximating sixty pounds of dressed meat. Mr. Arthur Meeker, vice-president of the Armour Packing Company, points out that these calves had they been kept two years would have yielded 600 pounds of dressed beef each, thereby making 6,000,000,000 pounds of dressed beef in the aggregate. This represents one-third of the annual beef consumption in the United States and Mr. Meeker concludes that unless we discontinue the practice of slaughtering calves we shall soon have no calves to slaughter.

A plan is being considered by which part of the half-million-dollar appropriation of the American Packers' Association will be used to educate the consuming public against veal consumption. It is pointed out that every pound of veal eaten is a stone in the edifice of high prices. If sufficient sentiment could be created against the consumption of veal so that it would afford no profit to the consumer the wholesale marketing of vealers would soon be discontinued.

There is another phase to this calf-slaughter question, namely, that one-half of the calves sent to market are females and in many instances these heifers carry two or three crosses of improved blood. Viewed from this standpoint it must be conceded that the marketing of 10,000,000 calves annually actually amounts to wanton waste.

THE DISK PLOW.

A Missouri subscriber asks for information concerning the draft of the disk plow. His soil is a gravelly loam and he wishes to compare the relative merit of the disk and moldboard plow when these are used in this type of soil.

Professors Davidson and Chase, in their work on farm machinery, call attention to the fact that the draft of the disk plow is often heavier in proportion to the amount of work done than is the draft of the moldboard plow. In the first place the plow itself is much more cumbersome. The disk plow is only recommended to be used in sticky soils, that is, soils that will not scour with a moldboard plow. Under certain conditions the disk plow may also be used where the ground is exceedingly hard. In this case it will do the work with less draft than will the moldboard plow. Even manufacturers of both types of plows agree that the field for the disk is exceedingly limited and that therefore, under ordinary circumstances, a moldboard plow is to be preferred.

Attention should be called to the fact that the disk plow cannot be used in sod because it is first and foremost a pulverizer. This being the case, it can be inferred that for ordinary farm conditions a moldboard type will give much better satisfaction all round.

MEN NOT ALTOGETHER TO BLAME.

When Secretary Houston, of the department of agriculture, recently wrote 5,000 farm women about their home life it was expected that there would be some interesting replies received. He is already getting them. Womanlike, some say that their hard lot is due to husbands who are grouchy. Others say that they have to work too hard and that there is not enough companionship for the woman on the farm. Still others, and probably with the best grounds for complaint, call attention to the large amount of physical labor which the farm woman must do, in carrying water, coal and wood, lifting heavy chicken coops and attending to the other duties connected with a day's work on the farm.

That most farm women do more work and harder work than there is any call for cannot be denied. That the "old man" of the farm is entirely to blame for this, in many cases, is doubtful. Most men will equip their homes with labor-saving equipment, if they have the money with which to do it, whenever the women folks insist upon it. Hard working themselves, most men think little about the work in the home unless their attention is called to it, and rarely is this attention called except, perhaps, after broken health or peevish spirits make it too late to remedy matters. Where conditions are not what they should be in a farm home, a woman is usually to blame though she is not aware of it and would stoutly deny it if accused of being.

Most folks, women included, receive, in this world, about the sort of treatment which they expect, or are willing to accept from others. If a woman regards herself as the proper person to chop the wood she is very likely to have that opportunity. If she regards herself as able to carry water from the well in the barnyard when a cistern and pump at the house is needed, she is very likely to be allowed to do so. And what is worse, if she brings up her sons and daughters to expect this sort of work of a woman she is doing nothing to lighten the work in other farm homes of the future.

Many men are "ornery critters," there is no disputing that fact, yet conditions in many farm homes where, according to the farm women writing Secretary Houston, conditions could be greatly bettered are, in a great measure, due to the lack of interest of the women themselves, all rumors to the contrary notwithstanding.

OUR FRIENDS THE BIRDS.

During the cold winter days when the snow covers the ground several inches deep there is danger of the quails and other birds that winter in cold climates starving to death. It will pay to look after them and scatter some grain where they may have access to it. It will pay to take care of the birds.

Birds are a blessing to the producer, inasmuch as they protect the growing crops from the ravages of various insects. One hundred quails will devour several thousand weed seed every day, and in the spring will catch hundreds of insects that prey on the crops if left alive.

But the quail is not the only bird that gathers seed, bugs and worms. The robin is also fond of seeds and insects. I have seen this bird on her hunt for bugs and worms. She would hop about in the garden looking among the foliage of vines and vegetables for insects. In a moment she would have one in her bill and away she would fly to her nest in the tree where the mouths of newly-hatched birds were stretched wide open to receive the bug or worm.

The swallow that flits about the eaves of the barn is one of the most insectivorous of birds. He has a mania for catching flies, and often captures this insect on the wing.

The blackbird is often troublesome to the farmer because he will dig out the newly-sprouted corn and sometimes devour grain at harvest, but he more than pays for all the damage he does. He is a veritable bug hunter, and insects by the hundred find their death in his craw.

The bluejay lives mostly on insects. He is especially fond of those insects that hibernate. If he can find their home he will tear it to pieces and devour the occupants.

The sparrow family are never-tiring hunters for weed seed. Their food is composed mainly of weed seed, and a sparrow will eat a quarter of an ounce of these every day. So in many states these sparrows are devouring tons of these seed each year. This is certainly a help to the farmer.

Mr. Crow, sometimes spoken of as "the black rascal," will often dig up the sprouting corn and devour a few turkey eggs if he can locate the nest, yet his appetite calls for grasshoppers, cutworms and meadow mice. So he is really a friend to the farmer.

The hawks and owls are surely targets for the farmer's gun, but they like grasshoppers and crickets. Mice and other rodents often fall victims to their claws. They may steal a chicken now and then, but the good they do the farmer counterbalances the evil.

POP CORN DESERVEDLY POPULAR.

Pop corn time will soon be here. Red, juicy apples, nuts and open fire and plenty of pop corn do as much to make the farm home attractive and loved by young folks and old ones, too, as any other agent. No statistics are available, yet it is a safe bet that the homes in which there has always been plenty of pop corn, plenty of sociability and family life, are the homes from which come fewer failures, fewer wayward girls and dissolute men than the best and most elaborately furnished homes in the world, where there are no attractions in the shape of pop corn and family affection. Agriculturally the growing of pop corn is of small import. There are only a few sections of the country, not large in extent, where this variety of the maize family is grown upon anything like a commercial scale. Yet so important is this crop that the United States Department of Agriculture has just issued a bulletin on the subject of "Pop Corn for the Home." It is known as Farmers' Bulletin No. 553, and contains much valuable information regarding the growing of this crop, including several excellent recipes for making pop-corn balls and other pop-corn goodies. A free copy may be had by writing to the department at Washington, providing one writes while there is an available supply.

SENSIBLE USE OF STRAW AND LEAVES.

An Illinois subscriber in advocating the policy of economy strongly endorses the practice of converting into fertility such forms of cheap roughage as straw and leaves. Among other things he says:

In the fall of the year many farmers spend a good deal of time burning up the straw and the leaves. This is a mistake. Both of these are an asset to the wideawake farmer. There are many uses to which the straw and leaves can be put. In the first place straw will be relished by stock in the cold winter. They should not be put on this alone as a roughness, but it can be mixed with hay or be kept in a manger to itself where the stock can have free access to it. Oat straw, especially, is considered good for horses and cattle, and when roughness is scarce they will thrive very well on it with a liberal feed of grain. Then as a bedding straw and leaves can be used very profitably. If the leaves are gathered and piled in a dry place they can be placed in the stalls at night and horses and cattle will enjoy them as a bedding. Either straw or leaves are good for a mulch for strawberries in winter. I have used both and find they are equally good to protect the tender plants from the freezing cold weather. Leaves should not be spread so thickly as straw, as they pack down closer. When vegetables are to be covered for winter, a light covering of either leaves or straw will protect them from the soil and keep out lots of cold.

But I have found that straw or leaves are good as a fertilizer. If they are plowed under or allowed to decay partly they will assimilate with the soil and add humus to it. I know men who haul out their leaves in the fall of the year after raking them from under the trees and scatter them over the land, plowing them under before the winds sweep them away. By spring they will have decayed and enriched the soil. Then if leaves are piled up in a pen and allowed to rot, the leaf mold, as it is called, will be very fine for enriching the soil, but I believe the greatest benefit is realized when the leaves are plowed under in the fall. Likewise straw is good for fertilizer when plowed under in a loose condition. I tried this plan on a small tract of land and found it built up the soil almost as well as the fertilizer from the barn. The old straw rick that has rotted down can be utilized for manure very profitably. The farmer should never burn it, but haul it out and scatter it on the fields for a fertilizer. I have done this and could tell to the very row the next year where the rotted straw had been scattered. The man who utilizes all the by-products of his farm and gives back to his land the strength he has taken away in the crop will never impoverish his land and make farming unprofitable.

Certainly the day is past when men can afford the waste involved in the careless handling of straw. In the case of leaves the element of labor might enter as an important factor, that is, the benefit of using the leaves might not offset the expense of handling them. No fault whatever can be found with the recommendation of the plan of using leaves for mulching certain vegetables and, indeed, even for storing a supply for bedding if, in the latter case, as said before, the labor of gathering is not too great.

AT SEA ABOUT SWINE TROUBLE.

In the following communication one of our subscribers, Mr. L. H. Rowlet, gives his experience in dealing with a herd of diseased hogs. Among other things Mr. Rowlet says:

Your article published in a recent issue on "Hog Cholera, Typhus Fever," etc., by A. L. Beverly, is of special interest to farmers and hog raisers. It is a fact that most of us have considered all the hog troubles of a serious contagious form to be hog cholera and up to this year veterinarians have paid little attention to swine, therefore they don't know much about their troubles.

Vaccination with serum was reported to check the disease when administered in time. When it happened that hogs died after being treated with serum the thought was that they were infected with cholera germs long before showing any signs of it.

Disease came closer to my herd every week and I decided to vaccinate, and so told our local veterinarian. On the 12th day of August we went at them with the so-called immune preparation that he got in Indianapolis. All this time I had kept the hog quarters clean, sweeping the cement floor several times each week and spraying it with a solution of water and zenoleum. I also poured a few drops in their drinking water, feeding oats only and slop made of shorts. Learning later that the immune preparation used was not considered much good, I insisted on

having my hogs vaccinated with serum, for which I had to await my turn. By the time the serum came my hogs were affected with a cold contracted in the first rain we had this fall which brought a sudden change of temperature. I had no bedding in the stable and consequently they lay that night on the ground in the cold rain rather than on the cement floor. After this some began to cough and some seemed to be troubled with dyspepsia. When we vaccinated them several had fever as high as four degrees. Since then I have lost ten one-year-old hogs or over and about twenty-five shoats. In fact I have only fifteen shoats looking healthy.

Since that rain I have kept bedding in the stable, leaving it only two days and then burning it. The floor is swept clean and sprayed. In spite of this they are dying faster every day and I am sure they are affected with typhus, as they have all the symptoms described in the above mentioned article. Some have the red spots, some discoloration of the skin, their respiration is affected and they are paralyzed in the hind quarters, etc.

In another pasture I have ten sows that farrowed the latter part of August. When the cold rain came they had a shed with a dirt floor. The sows look good and healthy, but I lost half of the pigs with what I thought was a mouth disease. Their mouths were sore and their backs were blistered. The rest look well now.

I have done practically everything recommended in your recent article to keep my herd healthy, but have failed. I would by all means save those ten sows and their pigs if I knew of any treatment that I could apply.

Unfortunately this is a form of swine disease to which veterinarians have given little attention. In a book on animal diseases published within the last month by a veterinarian who is recognized as a high authority, not one word is said in regard to the method of handling hogs when they have contracted typhus fever. It is claimed in some instances, however, that 95 per cent of the contagious diseases that appear among swine are cholera and it has been proven that where real cholera exists good serum is effective as an immunizing agent. The results in Scott county, Iowa, during the season of 1913, for example, indicate that the loss was only 1.3 per cent when hogs were treated while in healthy condition. On the other hand, after the herd began to show some signs of being affected the loss was 10 per cent, going up to 25 per cent when the hogs were quite sick before treated and to 58 per cent when they were sick. From this time on it is hoped that scientists will devote more attention to the handling of those diseases of swine that are responsible for heavy loss and yet diseases which in no sense can be called cholera or swine plague.

ECONOMIZE ON ROUGHAGE SUPPLY.

A subscriber who presumably knows something about the necessity of making every forkful of roughage go as far as possible under present conditions, gives some pointers on the subject in the following communication:

In many sections the feed crop is short this year. This means that we must make it a point to utilize every particle at our command. We must not let any roughness go to waste about the farm. This means that all fodder, straw and hay should be properly cared for and properly fed.

The fodder should be tied up well after the corn is husked. It should be tied with stout binder twine. The storms will not blow it down. If a shock is wrecked by the storm, the rain will soak it. It will then decay and become unprofitable for feed. It will be better to haul the fodder to the barn and stack it in one great pile under a shed than to have it blown down by the storms. It will be a good plan to husk the corn when the fodder is a little damp and it can be handled to better advantage.

The straw rick does not furnish the best ration for the cattle and horses, but it will be eaten if it is nice and bright. It has always been our custom to top out the rick anew after threshing and to weight it down with poles to keep the wind from blowing off the top and admitting the rain. Then the straw was salted every week. That is, where the cattle began to eat, salt was thrown into the straw. The stock seemed to relish it better when salted. Some farmers dissolve the salt in water and dash it onto the straw.

The hay should also be under shelter. The big barn should be chock full before winter. Get as much of the hay under cover as possible. My neighbor has a large canvas covering over his big rick, and it turns the water and saves lots of hay for him. Better that than nothing.

Then the farmer should make preparation to feed his roughness so that none of it will be wasted. The plan of feeding fodder and hay on the ground is an extravagant one. Stock will trample more or less of it under their feet. This waste is unnecessary, and it can be avoided. At small or no expense the farmer can construct feed racks into which hay and fodder can be thrown each day. These can be made of poles cut from the timber if lumber is not at hand. By thus making all his feed count the farmer can get his stock through the winter on a great deal less than he thinks.

There is one item in particular referred to by this subscriber to which special attention should be called. He speaks about tying up the fodder after it is husked. As a matter of fact, we are rapidly getting away from the practice of husking corn from the fodder because in reality this is a most expensive task. While ordinarily husking will be done in the fall at a cost ranging from three to five cents per bushel, we doubt if it can be husked out from the fodder under ten cents a bushel, and in some instances it will run as high as fifteen cents. It is true that the husking is not worth so much as it is in the fall, but after all, time is time and we like to get away from as many expensive items of labor as possible. Where any considerable amount of fodder is to be fed out in this way the husking should be done in a job lot by shredding the fodder. It can then be placed in a stack or in a mow and kept where it is accessible and where it will preserve in the highest degree its feeding value.

INTEREST IN AGRICULTURAL CO-OPERATION.

At the last annual meeting of the Kansas State Board of Agriculture the question of agricultural co-operation was discussed at length. One delegate, Mr. Edwin Snyder, called attention to the tendency of those who champion co-operative movements to go too far and thereby injure their own cause. Among other things Mr. Snyder says:

Co-operation is no new matter. More than seventy-five years ago a dozen poor weavers met in a poor inn in Rochdale, England, to devise some means to better their condition. After discussing several matters, strikes and the like, they concluded that if they couldn't make arrangements to get better wages they ought to try to do something to make what they received go further, and they organized at once into a society. Of course, a good many scoffed, but they went ahead. They were to pay into the common fund twenty pence per week, and only a few were able to do it at that time, and it took a year to raise a capital stock of $140 with which to begin business. They rented a room, bought only such goods as were absolutely needed by their families, sold for cash only, and at first opened the store only at night. That society has been going for over seventy-five years. It has spread all over England. They buy their wheat by the cargo, to be ground in their own mills for their own members. They buy refrigerated meats, mutton and beef from Australia and the United States in cargoes, to be sold at their butcher shop. It has been extremely prosperous. I have no doubt that each one of the members of this society is far better off personally because he learned to save something and to do business. That is what we need in this country—co-operation among the farmers. We must have it, and it is not a difficult matter. Of course, during the Farmers' Alliance agitation, twenty-five years ago, we started a great many co-operative stores. Most of them failed through mismanagement and the credit system. Cash payment is the essence of successful co-operation, and we cannot have it without. Of course, when we started out in the alliance we were going to reform the whole universe. We cannot do that. I believe that if the farmers will study co-operation it will be found immensely to their advantage.

Those who expect the principle of co-operation to work out in this country on the same scale that it is operated in Europe will be disappointed. In the first place we have in every agricultural community so many different nationalities of people to deal with that a new difficulty is encountered and, while these people are all good Americans, they look on matters of this kind from a radically different viewpoint. Co-operation in the end will succeed best if in the beginning it is applied to simple matters. A good example of this is found in certain neighborhoods where a number of men engage in breeding the same class of stock. In this case they have the advantage of many economies both in the buying and selling of their stock, in the use of males, in addition to the natural advantage that results from friendly rivalry. It is a desirable form of co-operation when men subscribe themselves to pay the expenses of a county expert in order that they may be sensibly advised and wisely guided by one in whose judgment they have absolute confidence. These are the less complex types of co-operative movements and the success that they are meeting with indicates that our people can take advantage of this important principle when it is sensibly applied to their own affairs.

DOES NOT ENDORSE FEEDING SILAGE ALONE.

A Missouri subscriber, Mr. L. E. Cline, calls attention to the necessity of using supplementary forms of roughage in conjunction with ensilage. Among other things Mr. Cline says:

The silo has many advantages to recommend it, although if the beginner catches the enthusiasm of the silo agent, or of the man who farms with his imagination only, he is likely to look upon one as a panacea for all farming troubles. It serves its greatest purpose when it is used for storing away corn or similar coarse crops where much of the crop is rendered worthless by the ordinary methods of curing. While silage is very palatable and its beneficial effect upon the animal is very noticeable in the laxative condition and in the fine coat of hair, we should not be misled into believing that it will answer all purposes any more than any other one kind of feed. It is best adapted to cattle feeding for the reason that cattle are able to consume large quantities of it, though the writer has used it also as the bulk of the ration for breeding sheep and for idle horses. Nor should we look upon silage as a concentrated feed. In fact it is the least concentrated of any feed in general use today. This is due, of course, to the high water content, amounting on an average of about 75 per cent, the amount of water depending on the maturity of the corn. This high water content is very evident, when we remember the difference in weight between green corn and cured corn.

Because of the bulkiness of silage it is hard for many classes of animals to more than maintain themselves on it if given all they will eat. We, in the blue grass region, look upon blue grass as a bulky feed yet it is a far more concentrated feed, by actual analysis and experience than corn silage and a better balanced ration. It takes about forty pounds of ordinary silage a day to maintain a 1,000-pound animal, and cattle are the only animals that will eat that much or more, so one can readily see that to get gains on beef cattle, or milk from dairy cattle, or work from horses, the silage for proper results must be supplemented by some more concentrated feed. This supplement should be of a character to make up for the deficiency of proteins in the silage for dairy cows and work animals. Leguminous or clover hays, oil meal, bran or cotton seed meal are the supplements in most general use today. In case of dairy cattle in full flow of milk, where a heavy grain ration is required, corn chop is most frequently used.

It should be said in this connection that the condition of the corn crop when it is put in the silo is a factor that has much to do with this question of supplementing ensilage. Where the fodder is green and very watery it is almost absolutely necessary to offset this succulent condition with dry feed of some form. On the other hand where it is converted into ensilage very good results are frequently obtained by the use of ensilage alone. It is true that large gains cannot be expected, though we have known instances where as much as one pound a day gain has been made by dry cows and stock cattle. It will be found that where ensilage is fed in large quantities cattle will eat a considerable supply of straw and so much the better if they can have access to well-filled straw stacks at will.

WHERE WE ARE AGRICULTURALLY.

According to a statement prepared by the National Department of Agriculture, the condition of all crops on October 1st of this year was about 13.6 per cent lower than their condition on October 1st last year and about 9.7 per cent lower than the average condition of crops on October 1st of recent years (mostly ten-year averages). As conditions on September 1st were 12.2 per cent lower than on September 1st last year and 10.1 per cent below the average year, it is seen that the month of September, as affecting crop prospects, was somewhat more favorable than the average September, though less favorable than September, 1912.

The general level of farm prices of staple crops increased about 2.1 per cent from September 1st to October 1st. This is an unusual increase, for during each September of the past five years the level of prices declined during September, the average decline for the five years being 3.8 per cent. The average level of prices of crops on October 1st was 8.1 per cent higher than on October 1st last year, 0.8 per cent higher than two years ago (a year of short crops), and 6.3 per cent higher than the average of the past five years on October 1st.

The average farm price of meat animals on September 15th was about $7.15 per 100 pounds, which compares with $7.20 on August 15, $6.74 on September 15th a year ago, $5.87 two years ago, and $6.92 three years ago. From August 15th to September 15th the price level decreased 0.7 per cent, which compares with an increase of 2.7 per cent during the same period a year ago, unchanged two years ago, and an increase of 3.7 per cent three years ago.

Newspaper reports tell us that there was still a man that was fool enough to hunt for a leak in a gasoline tank with a lighted match. He found the leak, but he "will never do it again."

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

Calamity howlers are making all the noise they can because the drouth damaged the corn crop in some localities. In the meantime the drouth-stricken (?) farmers have cut their corn fodder and are feeding other grains to their stock. There may be some cases where the drouth has caused real suffering, but so much noise about the partial loss of a single crop is best answered by the "I should worry" phrase.

We have had almost perfect weather for gathering seed corn up to the middle of October and no doubt many farmers have made the most of it, but at the same time those who have a good place for drying seed should not hesitate to pick more than they will use. In every community there are always a few who prefer paying five dollars a bushel or more for their seed corn rather than hustle a little in the fall.

Cornstalk disease, like hog cholera, is always to be dreaded and avoided if possible. It seems that there is no "sure cure" in either case. In regard to the stalks it is a good plan to see to it that the cattle are not hungry when turned into the stalk field and also to see that they are well supplied with salt and water.

Now that the baseball season is over and the world's series is a thing of the past we may settle down to corn husking without hunting for an excuse to be at the gate when the mailman comes. Baseball is a great game and our United States would be a lonesome place without it.

In looking through our local stores a few days ago I could not find a single pair of leather husking gloves. There were hooks and pins of every description and bales of cotton gloves and mittens. It seems that leather-husking gloves are too clumsy for the "hurry up" age in which we are living today.

The cheap cast steel auger bit is a poor investment for a farmer who ever uses tools. A high-grade bit will last a long time with proper care and will do the work for which it is intended with "neatness and dispatch." The cheap bit is of no earthly use except to have around to lend to chronic borrowers.

Those who did not tie the tops of their corn shocks should go into the field and take a look at their fodder now after the rains, then make a visit to their neighbor's field where the shocks are tied and compare. A wide-awake farmer can learn a whole lot by observation.

Jack Frost has been here to remind us that it is time to prepare for the coming of old King Winter himself. To get fuel and prepare shelter for man and beast will keep most of us busy till snow flies. With everything snug we may "let her howl" with some degree of comfort.

Corn is cheaper, though not yet low in price, nor will it be until we have at least one great crop that is a great crop everywhere. I believe those who must buy will do well to buy at husking time this fall, as the harvest price is usually the low price of the season.

When I hear a man talk about "eradicating" weeds, or when a man uses that word in print. I know he is no farmer. A real farmer does not "eradicate" weeds; he kills them.

Alfalfa seed is the lowest this fall it has been in many a year, a great inducement to sow. I know of many who are going to sow just because of the cheap seed. Some have sown late this fall, willing to risk a late seeding because it cost little to do it.

Woven wire fencing for hogs is not complete without a barb wire along the bottom. Let them once get onto the fact that they can crawl under a smooth wire, the whole herd, big and little, will do it, especially in wet weather. It rusts the lower wire too quickly to put it so low they cannot crawl under so a single barb wire along the bottom is cheaper as well as better.

Once upon a time I used a neighbor's fence-weaving machine, but it was only for once. Weaving by machinery can be done cheaper than weaving by hand—also better—and now it is possible to buy good woven wire fencing for the cost, per pound, of the wire, as it is as cheap for machinery to weave wire as to bundle it into rolls.

There should be a law against leaving hedge brush in the public highway. Thorns not only puncture auto tires, but are also injurious to the feet of horses. Some very careful farmers are careless about leaving hedge brush to blow about.

Doping a sick horse, first with one thing and then with another, is a poor way to make him well. When I do not know what ails a horse I do not dope him. The thing to do then is to call in someone who does know and let him attend to the case. Worst of all, do not trust the life of a $200 horse to a "hoss doctor," the sort of a man to whom you would not trust a plain matter of judgment of anything else.

With raw rubber cheaper than it has been before in years, I cannot understand why overshoes, rubber boots and other rubber goods should not be cheaper than they are. But a few years ago I remember buying a good pair of overshoes for $1; now they charge me $1.50 for the same quality, with raw material much cheaper.

Some Kansas sage has said that the way to get through dry years in the best possible shape is to view the future as does the optimist and prepare for it as would the pessimist. This ought to leave a man free to set his own pace.

The chores, which must be done, rain or shine, is what disgusts many a man with farming. I must confess that many a time in my life I would have been glad of the chance to have had no chores to do, but, at the same time, it pays to do chores well. I doubt if any other work pays so well as chore work that is well done.

Expert automobile mechanics get $100 to $150 a month, demonstrators and salesmen more. Good jobs are going begging—there are not enough experienced men to fill them—because the automobile industry is growing faster than men can be trained. Equip yourself for a good salary as expert mechanic or for entering the automobile business for yourself. Ours is the largest and best equipped auto school in the west, the only school in Nebraska with its large building devoted entirely to automobile training. Complete machine shops, all accessories, many makes of autos. Individual experience in large touring cars. Write for booklet.

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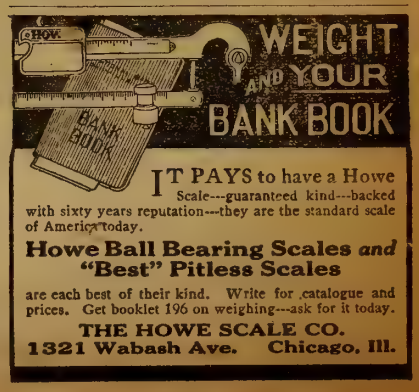

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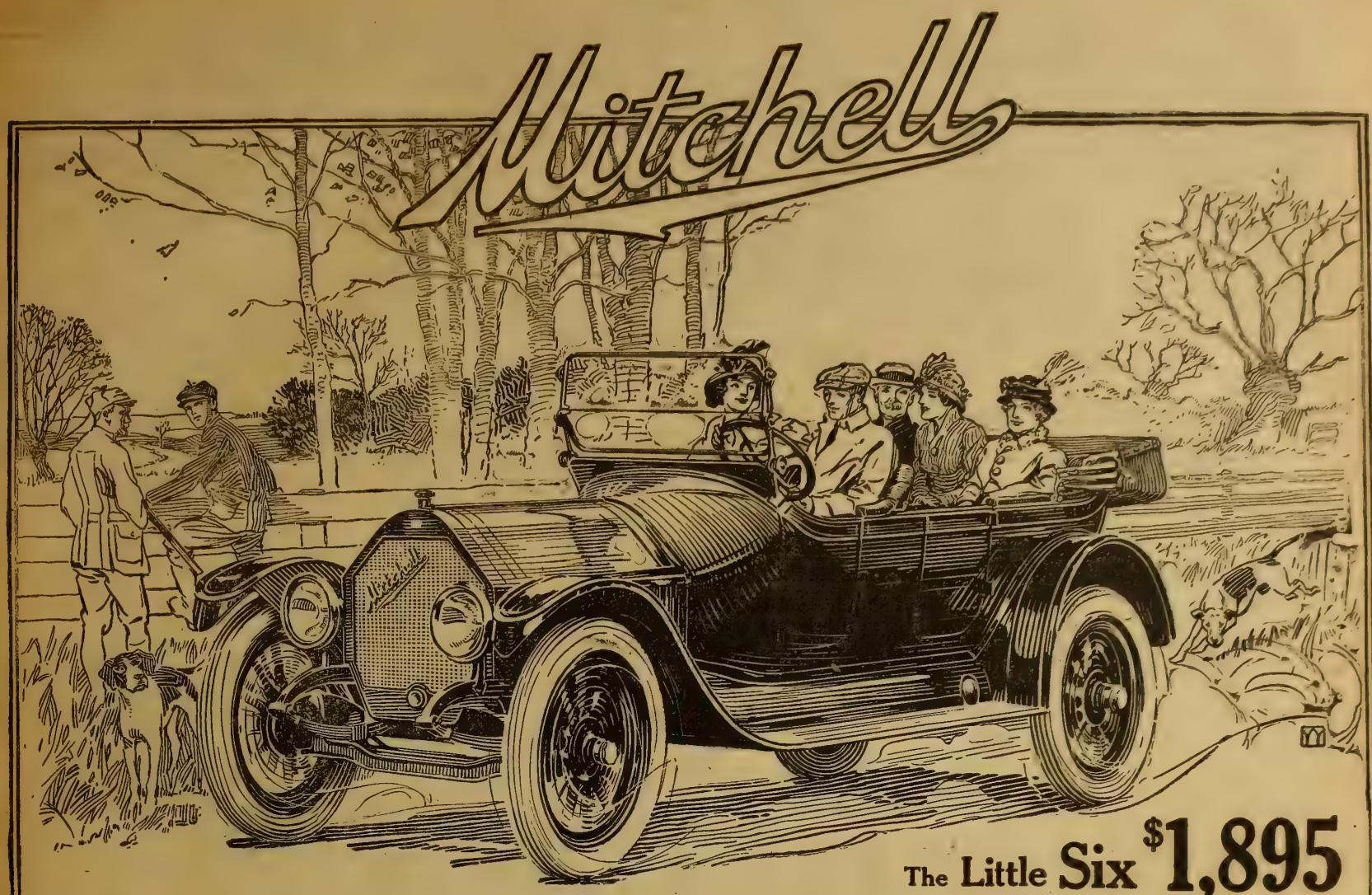

The Little Six $1,895

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The Mitchell-Lewis Motor Company, *with unlimited capital at its command*, has surrounded Mr. Bate with the best facilities and the finest factory that it is possible to build. It will back the car with the most liberal *Service-Policy for car owners* that the business mind can conceive.

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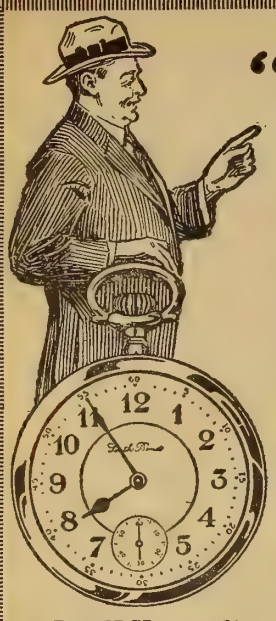

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CURRENT EVENTS

CURTAILMENT of the high prices of meat is up to the public, according to a statement recently made by Chas. W. Armour, president of the Missouri Corporation of Armour & Company, packers. Mr. Armour says that if consumers will discontinue eating veal for two years until the supply of cattle is brought back to its normal condition the bottom will drop out of prices. Furthermore he looks for the lowering of values as the result of the change in the tariff which places meats on the free list. This expert probably failed to remember that it requires at least five years for a policy of this kind to have any effect on increasing the supply while in the meantime the withdrawal of calves from the market will cut the supply to the extent of one-half billion pounds annually.

STATISTICS show that upwards of 3,000 Methodist ministers in the United States preach and work the year around for less than $500 each. These figures were presented at the thirty-second annual meeting of the Methodist Woman's Home Missionary Society which met in Washington, D. C., last week. It was the belief of the majority of the members of the board that this state of affairs should not exist in a land so highly favored as the one in which we live, and particularly at a time when the cost of living is so great.

GOVERNOR WILLIAM SULZER was found guilty last week by the high court of impeachment on three of the articles preferred against him. Following the vote of the court he was removed from office but not disqualified from holding office in the state in the future unless there is a substantial change in the informal vote which has been reported. Article one charges the governor with falsifying a statement of campaign contributions. Article four charges that the governor suppressed evidence by means of threats to keep witnesses from testifying before the Frawley committee. The vote to remove the governor from office is reported to be forty-three to fourteen. According to report the governor is in the best of spirits and it is presumed that he will soon make a statement in his own behalf unhampered by the advice of his attorneys.

MR. JOHN LIND, President Wilson's personal representative in Mexico, reports to Washington that there is every indication of General Huerta's resignation being forthcoming. Mr. Lind calls the president's attention to the fact that the United States may be called upon indirectly to indicate whether or not Huerta's successor will be recognized. Various names have been suggested and the acceptability of the individual to the American government may have much to do with the final choice. At least one conclusion has been reached, namely, that there will be no more parleying by the Washington government with the Huerta regime.

THE turbulency of conditions in Mexico has been such as to necessitate the presence of a German warship in Mexican waters. The cruiser Hertha, which has been used as a school ship, has been made available for duty. Although the United States was not officially notified concerning the sending of this cruiser it is apparent that it is not in any sense displeasing to the president and his cabinet. Other European governments have, upon many occasions in the past, maintained cruising vessels along the Mexican coast. The action of Germany is supposed to indicate that the German government has lost faith in Huerta's ability to control the situation.

PROF. OSCAR RIDDLE, research assistant of the Carnegie Institute, Washington, D. C., announces that he has discovered the secret of sex control in animals. He has been experimenting with 500 pigeons and his investigations have been so extensive as to lead him to confidently announce the discovery. He is not assured, however, that the point has been reached that will find application in the human, though it is believed that the experiments now under way by Professor Riddle will lead to that end.

THE president of the United States is to take a hand in deciding the question of whether Mrs. Emmeline Pankhurst, militant suffragette of England, shall be admitted to this country or not. Mrs. Pankhurst has been detained temporarily at the immigration station on Ellis Island with the expectation of being deported as an undesirable alien. An appeal has been made to Washington in the hope that she will be admitted to bail and thus gain her freedom. Presumably Mrs. Pankhurst had in mind passing through her final hunger strike when she said: "If I am deported the ship taking me back will carry me to my death. I feel that I cannot last long after six hunger strikes—not much more than twenty-four hours—if I enter upon a seventh."

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The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle, sheep and hogs up to the value of $1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

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Mention The Homestead when writing.

BREAD FROM STONES

By Cyril G. Hopkins

IN NOVEMBER, 1903, I purchased a farm in southern Illinois at a cost of less than $20 an acre. It comprised about 300 acres of poor gray prairie land (the commonest type of soil in about twenty counties in that part of the state) and a few acres of timber land.

It was christened "Poorland Farm" by others who knew of its impoverished condition, and I finally adopted this as the farm name.

In 1913 a forty-acre field of this farm produced 1,320 bushels of wheat. This particular forty acres was bought at $15 an acre. It had been agriculturally abandoned for five years prior to 1904, and was covered with a scant growth of red sorrel, poverty grass and weeds.

During the ten years, this field has been cropped with a six-year rotation, including one year each of corn, oats (or cowpeas) and wheat, and three years of meadow and pasture with clover and timothy.

A fairly good stand of volunteer clover appeared with the oats in 1911 and this was allowed to produce a crop of clover hay in 1912, wheat being seeded in the fall of that year for the 1913 crop mentioned above.

During the ten years about four tons per acre of ground limestone and two tons per acre of fine-ground raw rock phosphate have been applied to thirty-seven acres of this field. Two applications have been made of each material; the phosphate was plowed down for the corn crops of 1904 and 1910, and the limestone was applied in the fall and winter of 1904-5 and after the ground was plowed for wheat in the fall of 1912.

The entire forty-acre field was covered with one uniform application of six loads per acre of farm manure with a fifty-bushel spreader.

A six-rod strip entirely across the field (eighty rods) received the same application of manure and the same rotation of crops as the remaining thirty-seven acres, but no phosphate was applied to this strip, and no limestone was applied to it until the fall of 1912, when the regular application (about two tons per acre) was applied to one-half (three rods) of the six-rod strip.

Only thirty-nine acres of this field were seeded to wheat in the fall of 1912, a lane having been fenced off on one side; and the 1,320 bushels were produced on the thirty-nine acres.

The actual yields were as follows:

One and one-half acres with farm manure alone produced eleven and one-half bushels per acre.

One and one-half acres with farm manure and the one application of ground limestone produced fifteen bushels per acre.

Thirty-six acres with farm manure and two applications of ground limestone and two of fine-ground phosphate produced thirty-five and one-one-half bushels per acre.

The cost of two tons of limestone delivered at my railroad station is $2.25, and raw rock phosphate has averaged about $6.75 per ton, making $9 per acre the cost for each six years.

To this must be added the expense of hauling these materials two miles from the station and spreading them on the land, which I estimate at fifty cents per ton. This makes the average annual cost $1.75 per acre for the limestone and phosphate spread on the field, and this average annual investment resulted in the increase of twenty-four bushels of wheat per acre in 1913.

Thus we may say that the previous applications of these two natural stones brought about the production in 1913 of 864 bushels of wheat, sufficient to furnish a year's supply of bread for more than a hundred people. No high-priced or artificial commercial fertilizers are used on this farm.

As a rule the check strips across each of the six forty-acre fields in the rotation are not harvested separately from the rest of the fields. The limestone and phosphate have produced even more marked difference in clover than in wheat; and where the first application of limestone was made to the three-rod check strip, as well as to the thirty-seven acres receiving rock phosphate, the superiority of the phosphate and limestone together over the limestone alone has been exceedingly marked on both clover and wheat; and, of course, the wheat and other grain crops are benefited not only by the limestone and phosphate, but also by the previous increased growth of clover on the well-treated land, especially where this is pastured or plowed under.

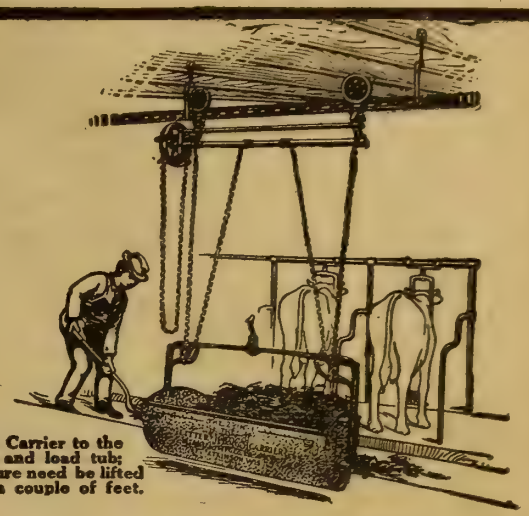
Poorland Farm is in no sense an experiment station, and neither is it a "show" farm. It is operated solely from an economic standpoint, and with the full understanding from the beginning that general farming is not a highly profitable business, and that it is highly unprofitable on poor land.

On the other hand, it is equally well known that intelligent permanent soil improvement on land that must be, or will be farmed, is both the safest and the most profitable investment open to the farmer and landowner. But both the difficulties and the methods of building up run-down soil have been repeatedly discussed by the writer, in public addresses and in published articles, bulletins, and books, and there is no necessity of repeating them here.

Poorland Farm is usually inspected each year by my class of university students in soil fertility, about 100 of whom saw the fields of wheat and clover in June, 1913. It is for the benefit of such as these, who desire to know the truth regarding economic systems of permanent soil improvement, that this brief statement is published.—[Illinois Station Circular.

The factory of the Menominee River Sugar Company at Menominee Falls started the season's run on October 6th. Four hundred men are being employed, in addition to the skilled labor, and will be kept steadily employed for ninety days of twenty-four hours, two shifts being worked as is customary. Beets have been arriving at the rate of fifty to sixty car loads a day. Twenty-four hundred farmers have been growing beets for the factory. These will be shipped to Menominee from 160 points in Dickinson, Menominee and Delta counties in Michigan, and from Wisconsin as far south as Oshkosh. It is anticipated that the factory will pay out in wages about $100,000 and $80,000 and more for beets. The estimated output is 18,000,000 pounds of granulated sugar and 2,000 tons of sugar beet molasses. —[Wisconsin Farmer.

Raising and Lowering Carrier—Track Can't Sag While Loading. A Shove—Out it Goes, Dumps and Returns Automatically.



Drop Carrier to the floor and load tub; manure need be lifted but a couple of feet.

JAMES

2-in-1 Carrier Rigid and Rod Track Combined

This new JAMES Carrier has all the advantages of the rigid track inside the barn—the celebrated JAMES I-beam track that can be bent to any curve without the use of heat, doing away with the expense for curves; the JAMES simple, sure-working switches; the "button-on" hangers that make the carrier easy to erect; a tub that can be quickly dropped to the floor for loading, and that "stays put" while loading—track can't sag, hence carrier moves *only* when you push it—and other features that make barn cleaning easy.

This carrier has all the advantages of the rod track outside the barn. Stand at the barn door, give the carrier a shove, the carrier runs out, dumps at the desired point and returns automatically to the barn. Saves walking through the wet yard and through the snow. An ingenious device makes dumping certain. The 2-in-1 Carrier is the newest JAMES improvement—backed by all the *quality*, *reputation* and *experience* that have made JAMES Carriers and JAMES Sanitary Barn Equipment famous and successful.

We're enthusiastic about it! So is every man who sees it.

It is one of the most *sensible* and *valuable* labor-savers ever put on the market, and is proving a big winner.

Let us tell you all about the 2-in-1 Carrier before you invest a dollar in manure carriers.

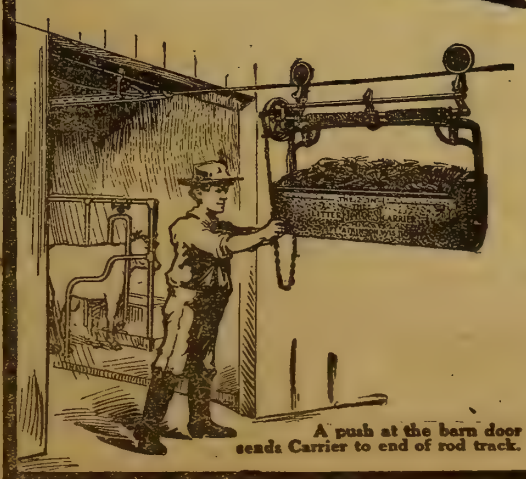
The JAMES is a complete line of carriers—the "Big Boy" and "Mascot" for rigid track, each in two sizes; "Chore-Boy" for rod track; and the "2-in-1" for use on a combination of the two tracks.

All the *know-how ability* that has made JAMES Sanitary Barn Equipment such a nation-wide success is back of these carriers. *Get the facts now!*

Makers of JAMES Sanitary Cow Stalls, Stanchions, Bull Pens, Calf Pens, Cow Pens, Manure Carriers, Feed Trucks and Dairy Barn Ventilators.

James Manufacturing Co., AU-98 Cane St., Ft. Atkinson, Wis.

"Originators of Sanitary Barn Equipment Ideas"



A push at the barn door sends Carrier to end of rod track.

When Carrier strikes the trip, tub dumps automatically.

James Mfg. Co., AU-98 Cane St., Ft. Atkinson, Wis.

Gentlemen: Please send me complete information regarding your new JAMES 2-in-1 Carrier, Rigid and Rod Track Combination.

I have ..... cows; ..... horses.

Please send Catalog No. 12, Stalls, Stanchions, Pens ( ); Catalog No. 14, Barn Ventilators ( ); Catalog No. 13, Rigid and Rod Track Carriers ( ).

Name .....

P. O..... R. F. D..... State.....

Big Ben

He works 36 hours at a stretch

And overtime when needed. Anyone can afford him, for he only costs $2.50 to buy and nothing at all to keep. 3,000,000 American homes have taken advantage of this and have employed him to get the family up in the morning.

Even if you have a *preference* about waking up, he's ready to get you up *your way*. If you like to be wakened gradually, he'll ring little short rings every other half-minute for ten minutes. If you're a hard sleeper and need a strong dose, he'll sing out with a long, vigorous, full five-minute ring. Either way, you can shut him off at any point.

20,000 jewelers are necessary to take care of the demand he's created for himself. He's made a World's Record as a success.

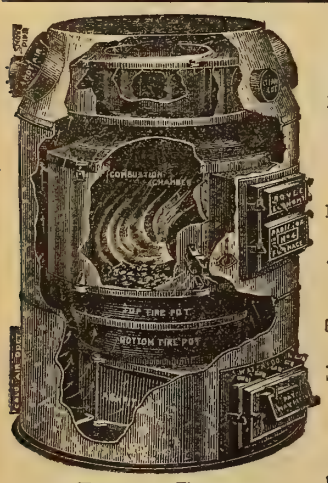
He's invaluable on the farm, because he not only helps you get the hands out on time, but serves as a first-class clock to tell the *day*time by.

He stands 7 inches tall, is triple nickel-plated—has a vest of good implement steel that keeps him hardy; large, bold figures and hands to tell the time by in the dim light of morning. He is as fit for the parlor as the bedroom.

If your jeweler hasn't him, send a money order for $2.50 to *Westclox, La Salle, Ill.*, and he'll come anywhere in the States by parcel post, prepaid.

He bears this imprint, "Made in La Salle, Illinois, by Westclox," which is the best alarm-clock insurance you can buy.

BUY BOVEE FURNACES at MANUFACTURERS' PRICES



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Save from $30.00 to $50.00 Commission.

The MOST PERFECT manufactured.
SAVES about 40 Per Cent of FUEL.
The Most Durable Sold.
Fully Guaranteed.
Replace your old Furnace or Stoves.
Install a Complete Heating Plant.
The BOVEE Furnace requires LESS FUEL THAN STOVES OR OTHER FURNACES.
ECONOMY FURNACE burns hard coal, coke, soft coal or wood.
HORIZONTAL FURNACE burns long wood or soft coal. Doors 16x16 inches.
Send pencil sketch of floor plan of your building for FREE PLAN and Specifications.
Easy to install—shipped cut to fit with full directions—no tinner required.
Write us for full information special offer. Address

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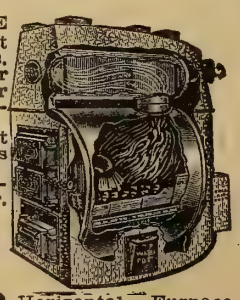

Horizontal Furnace

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Its Furs to Funsten Bros. & Co., St. Louis

Biggest prices! Better grading! Most money by return mail! We are the largest in the world in our line. The biggest Canadian, American and European buyers are represented at our regular sales. This year we will handle the Government's Alaskan seal output. More buyers and better prices than ever. We sell furs in larger quantities, get more spot cash and pay you more cash than you can get anywhere. Do all our business direct with you. We want $10,000,000 worth of furs—anything—from one skin up.

Big Money in Trapping Mink, coon, skunk, muskrat, fox, wolf, lynx, white weasel and all kinds of furs wanted for cash. **TRAPS AT FACTORY PRICES**

Funsten Animal Baits Guaranteed to increase your catch or money back. Won Grand Prize at World's Fair in 1904. U. S. Government uses them. One can brought one man $1,199 clear profit. Only $1 a can. Write today for free Trappers Guide, Game Laws and Trapper's Supply Catalog—Fur Market Reports, Funsten Fur Shipping Tags, etc. ALL FREE.

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TRAPPERS

Ship your raw furs to me on your own grade. Write today for price list.

W. R. RUMBAUGH
518 Wagner St.
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SEEDS WANTED

THE past season we have bought Timothy, Clover, Alsyke and Mixed Timothy and Alsyke from hundreds of farmers in Iowa and surrounding states. Sample packet free. Will make you offer by return mail delivered at your station. Get our bid before selling. Write today.

THE ADAMS SEED COMPANY
Box 61 Decorah, Iowa

Iowa State Dairy Association Show

THE annual show of dairy cattle held under the auspices of the Dairy Cattle Congress and the Iowa State Dairy Association took place at Waterloo the week ending October 18th. It was a remarkable representation of the dairy industry of Iowa in particular and of the United States in general. The collection of dairy cattle included 624 head, all of which, with the exception of possibly 100 head which were present for sale purposes, took part in the competitions of the show. The cattle, in all, represented thirty-nine herds, sixteen of which were the property of Iowa breeders. This is an extraordinary showing for the dairy cattle men of the state and applies to individual merits of the animals exhibited as well as to numbers.

In the endeavors of the management to be assured of a liberal attendance, it was planned to make the show a sort of political rallying ground and while the object was fairly successful, it is feared that the plan was detrimental to the real objects of the exhibition. The program had been arranged in such manner that the many addresses provided took place at the same time when the shows were in progress. As a result, some of the speakers found themselves facing empty chairs and, in one instance, the speaker refused to present his address. Governor Clarke appeared as a representative of the republican party, but refrained from any discussion of the principles of his organization. Lieutenant Governor Harding was also present and made some interesting remarks having a general application to agriculture and dairying. The progressive party was not represented, as no speaker of prominence could be obtained. Secretary of State Bryan appeared Friday afternoon and drew an immense audience.

The most interesting address given was, perhaps, that of President Pearson, of the Iowa State College of Agriculture. He addressed himself particularly to the subjects of importance to the dairy industry, opening his remarks with a laudation in which he presented the startling assertion that the dairy cows of Iowa, with their calves, had a valuation of more than $80,000,000, an amount which, if used as purchase money, would buy the manufacturing interests of all the leading cities of the state and still leave a liberal proportion of the money unexpended. He believed that Iowa was closely following Wisconsin as a leader in dairying and expected at no distant day to find her occupying a proud position at the very front. President Pearson said that he began his career as a dairyman and that when his services should no longer be required as the head of the institution he now represents he would return to that occupation.

In the Holstein-Friesian classes were 174 head of cattle. They represented fourteen herds, ten of which were owned by Iowa breeders. This was really the premier breed of the show, excelling all others in numbers and bringing out competitions of extraordinary merit. While the grand championships both went to Mr. Haeger, of Illinois, the junior championships were captured by Iowa breeders, R. B. Young, of Buffalo Center, taking junior championship on bull with his remarkable youngster, Buffalo Pieter Doede, and C. A. Nelson, of Waverly, taking the junior heifer championship with Groveland Johanna Inka, a heifer of extraordinary promise and one which will, in every probability, develop into a grand champion in her later show-yard experience. One of the heifer classes contained twenty-seven contestants and brought out material which will, in later years, constitute an excellent representation of the greatest animals of the breed of their day.

While there were 223 Jerseys in the show, perhaps 100 of these were there for sale purposes so that in actual competition the Jersey occupies second place. They were, however, from a more widely distributed territory than any other breed, representing Texas, Kentucky, Minnesota, Illinois, Wisconsin, Indiana, Oregon and Iowa. In many of the classes the shows were remarkable. In particular, the class of bulls two years old and under three was an unusual one. It included but five contestants, but presented a remarkable situation in that each of the five has this year been a grand champion winner at a state fair. So evenly were the merits of this class distributed that the decision was a ticklish one which finally landed a Texas exhibitor's animal, Noble's Eminent Lad, at the head of the lot, and that bull was later declared grand champion of the breed.

CHICAGO STOCK FARM'S JUNIOR CHAMPION HOLSTEIN BULL, BUFFALO PIETER DOEDE.

Guernsey breeders brought out 116 head and they represented, in every probability, the best show-yard material which the breed has brought out this year. Marsh's herd gained both bull championships and grand championship on females, the junior championship on females having been won by Wilcox & Stubbs, of Des Moines.

In the Ayrshire classes there were but four exhibitors, with seventy-five head of cattle in the rings. Some new material appeared since last year and the old winners, in many cases, were crowded to the background. However, it was a show of unusual excellence and one which was highly creditable to the breed.

Two herds of Brown Swiss cattle were in the show and so far as first places were concerned, it was a rather one-sided affair. Both herds were owned by Wisconsin breeders.

W. J. Gillette, of Rosendale, Wisconsin, who officiated as judge of the Holstein-Friesian classes, won the admir-

ation not only of exhibitors but spectators by the manner in which he took care of his duties. He went at the job with a confidence that inspired the crowd with the idea that he knew his business and made his decisions with a promptness and justice that received general applause. Mr. Gillette's methods might well have been followed by other judges whose tendency towards uncertainty of action weakened the confidence in their decisions and at the same time took up a great deal of valuable time.

The butter show included 167 tubs. In the whole milk-butter class first prize was awarded to T. E. Sadler, Hazleton, Iowa, whose butter made a score of 98. Second went to A. W. Mooney, Denver, Iowa, on a score of 97½.

The milk exhibit was said by State Milk Inspector Thompson to have scored higher than any milk he had ever seen. Wilcox & Stubbs, Des Moines, and Marsh Dairy Farms, Waterloo, tied for first place with a score of 96¼. Second place went to the Shoe-maker-Van Pelt-Mayne Dairy Farm on a score of 95 points. Inspector Thompson loudly praised the conditions and care which made such high scores possible. He said they indicated clean milk properly cooled.

The annual meeting of the Iowa Dairy Association presented an interesting program which lack of space prevents us from giving. The election of officers resulted in the selection of W. R. Quarton, Algona, Iowa, as president; Geo. Kalthoff, vice-president; E. T. Sadler, Waterloo, secretary; J. J. Ross, Iowa Falls, reasurer; E. S. Estel, Waterloo, dairy expert.

In the butter makers' contest Chris Jensen, of Radcliffe, won first place, while Julius Brunner, of New Haven, and F. W. Bremer, of Sumner, tied for second place, third going to F. M. Zell, of Sumner.

The Iowa Holstein Breeders' Association held a banquet and annual meeting, at which a program was presented and the usual business affairs acted upon. The election of officers resulted in the election of F. J. Jenkins, Algona, president; Geo. McKay, Waterloo, vice-president; and R. B. Young, Buffalo Center, secretary and treasurer. Student judging teams in charge of their respective professors from Iowa, Missouri, Minnesota and South Dakota were present.

The Iowa State Dairy and Food Department made its usual exhibit in the interests of pure foods. While this exhibit is no doubt of interest to those who have time to study out the facts present at the show, it is really a little difficult for those who can give it but a passing glance.

An unusually attractive exhibit was that made by the Blackhawk County Crop Improvement Association. This organization has been in existence for about one year. It is supported through the efforts of business men of the county who add their gifts to the $100 per month provided by the government for the employment of a crop expert or county adviser. An excellent display of corn, oats, wheat, grasses, alfalfa and garden products was presented. The organization is one which is not meeting with the approval and co-operation of farmers to the extent to which it is entitled. An interesting presentation made at this exhibit was a self feeder for feeding hogs, together with a statement showing that corn and meat meal fed by this means resulted in the hogs consuming more, making greater gain and larger profit than when given the same feeds by hand. The statement is made that when the hog has access to the feeder at all times he will not over-feed but will feed more regularly than when only given feed at stated intervals.

GUERNSEYS.

Chas. L. Hill, Rosendale, Wis., acted as judge and had before him 116 animals from the herds of M. H. Tichenor, Oconomowoc, Wis.; A. W. & F. E. Fox, Waukesha, Wis.; John H. Williams, Waukesha, Wis.; Wilcox & Stubbs, Des Moines, Iowa; W. W. Marsh, Waterloo, Iowa; George Alexander, Littleton, Iowa; Nelle Fabyan, Geneva, Ill. His awards were as follows:

Bull 3 Years or Over (5 shown)—1st Marsh on Hayes Cherub 2d; 2d Tichenor on Glenwood's Combination 5th; 3d Marsh on Rex Mar; 4th Fox on Topsy's Count Yeska; 5th Fox on King Talladeen of Chestnut Hill.

Bull 2 Years and Under 3 (3 shown)—1st Wilcox & Stubbs on Gay's May King; 2d Fox on Tricksey's George of Sunnyside; 3d Williams on Trislette's King of the May.

Bull 1 Year and Under 2 (5 shown)—1st Marsh on Bopeep's Mar of Iowa; 2d Fox on Raymond's Billy of the Hague; 3d Marsh on Violet's 3d Son of Iowa; 4th Williams on Park's Flossie's King; 5th Fox on Billy's France of the West.

Senior Bull Calf (6 shown)—1st Fox on Quida's Sequel; 2d Fox on Glenwood's Volunteer; 3d Tichenor; 4th Marsh on Victor Van of Maple Farm; 5th Wilcox & Stubbs on Patritia's Son.

Junior Bull Calf (6 shown)—1st Fox on Gratify Standard; 2d Williams on Park's Isabella's King; 3d Wilcox & Stubbs on Holden's Monogram; 4th Tichenor on Westmoreland Village Boy; 5th Williams on Park's Prince.

Cow 5 Years or Over (12 shown)—1st Fox on Essie Jeweler; 2d Tichenor on Daisy's Homestead Dolly; 3d Marsh on Glenwood's Hazel; 4th Marsh on Jedetta of Pinehurst; 5th Marsh on Fernleaf of the Glen.

Cow 4 Years and Under 5 (6 shown)—1st Marsh on Jessy Rose 10th; 2d Tichenor; 3d Wilcox & Stubbs on Village Lassie; 4th Williams on Park's Golden Spot; 5th Fox on Imp. Maid of Richmond.

Cow 3 Years and Under 4 (5 shown)—1st Wilcox & Stubbs; 2d Marsh on Itchen Carduns; 3d Fox on Pleasure of Waukesha; 4th Wilcox & Stubbs on Frances Rose of Fairview; 5th Wilcox & Stubbs on Miss of St. Louis 2d.

Heifer 2 Years and Under 3 (13 shown)—1st Marsh on Hayes Cherry 9th; 2d Marsh on Meadow Girl 2d; 3d Fox on School Girl of Waukesha; 4th Williams on Park's Princess Rhea; 5th Marsh on Hayes Snowdrop 4th.

Marsh Guernsey Special for best 2-year-old heifer in milk—Fox on School Girl of Waukesha.

Heifer 18 Months and Under 2 Years (10 shown)—1st Wilcox & Stubbs on Frances Rilma of Iowa; 2d Marsh on Rose Des Howard's 57th; 3d Williams on Park's Isabella 2d; 4th Fox on Dairy Maid of Waukesha; 5th Marsh on Hayes' Snowdrop 5th.

Heifer 12 Months and Under 18 (9 shown)—1st Wilcox & Stubbs on Village Lassie 2d; 2d Marsh on Grace of Iowa; 3d Wilcox & Stubbs on Budding Blossom; 4th Fabyan on Polly of River Bank; 5th Marsh on Fleurie Mar.

Senior Heifer Calf (13 shown)—1st Marsh on Lilly Lapine; 2d Marsh on Express 8th; 3d Marsh on Hayes' Citron 3d; 4th Fox on Pleasure's Promise; 5th Marsh on Glencoe's Bopeep 2d.

Junior Heifer Calf (13 shown)—1st Wilcox & Stubbs on Village Lassie 3d; 2d Tichenor on Village Highland Girl; 3d Marsh on Emblem of Iowa; 4th Wilcox & Stubbs on Hilcrest Maid; 5th Fox on Sundari's Dairymaid.

Cow having official yearly record begun at 5 years or over (3 shown)—1st Marsh on Jedetta of Pinehurst; 2d Marsh on Fernleaf of the Glen; 3d Fox on Selma of Pinehurst 2d.

Cow having official record begun at 2 years under 5 (4 shown)—1st Marsh on Jessy Rose 10th; 2d Marsh on Jedetta of Pinehurst; 3d Marsh on Fernleaf of the Glen; 4th Fox on Imp. Maid of Richmond.

Exhibitor's Herd (5 shown)—1st Marsh; 2d Marsh; 3d Wilcox & Stubbs; 4th Fox; 5th Tichenor.

Young Herd (4 shown)—1st Marsh; 2d Williams; 3d Fox; 4th Fox.

Calf Herd (6 shown)—1st Marsh; 2d Wilcox & Stubbs; 3d Marsh; 4th Tichenor; 5th Fox.

Get of Sire (7 shown)—1st Marsh; 2d Wilcox & Stubbs; 3d Williams; 4th Fox; 5th Marsh.

Produce of Cow (6 shown)—1st Williams; 2d Wilcox & Stubbs; 3d Marsh; 4th Fox; 5th Williams.

Dairy Herd of 4 Cows in Milk (4 shown)—1st Marsh; 2d Fox; 3d Wilcox & Stubbs; 4th Williams.

Senior Champion Bull—Marsh on Hayes' Cherub 2d.

Junior Champion Bull—Marsh on Bopeep's Mar of Iowa.

Grand Champion Bull—Marsh on Hayes' Cherub 2d.

Senior Champion Cow Marsh on Jessy Rose 10th.

Junior Champion Cow—Wilcox & Stubbs on Frances Rilma of Iowa.

Grand Champion Cow—Marsh on Jessy Rose 10th.

BROWN SWISS.

Prof. H. Kildee, Ames, Iowa, who judged the Brown Swiss, had before him only two herds, those of Joseph P. Allyn, Delavan, Wis., and H. W. Ayers, Honey Creek, Wis. His awards are given below:

Bull 3 Years or Over (2 shown)—1st Allyn on My-One-Boy; 2d Ayers on Imp. Zell.

Bull 2 Years and Under 3 (1 shown)—1st Ayers on Zell A.

Bull 1 Year and Under 2 (3 shown)—1st Allyn on Iown Laddie; 2d Ayers on Ayers' Traveler; 3d Allyn on Buccaneer of A.

Bull Under 1 Year (4 shown)—1st Allyn on Casper Brown of A.; 2d Ayers

(Continued on page 16.)

ALLYN'S GRAND CHAMPION AGED BULL (BROWN SWISS) MY-ONE-BOY.

MARSH'S GRAND CHAMPION GUERNSEY BULL, IMP. HAYES CHERUB 2d.

Look for the Lanpher Label When You Buy a Sheep-Lined Coat

YOU'LL find comfort in its tailored fit, in its roominess, in its warmth.

You'll get better service, than in any other sheep-lined coat. It will stand rough wear, last longer.

The reasons?

First, the materials are better. The sheep linings, for instance, are bought in the colder sheep-raising sections where the animals grow thick-wooled pelts. These pelts are tanned, nailed and made up just as carefully as our high grade furs, leaving no stretch or skrinkage to them. They hold their shape.

Second, Lanpher Sheep-Lined Coats are really *tailored*—sewn into shape by the same organization of skilled tailors who made the high-priced Lanpher Fur Lined Coats.

The quality in Lanpher Sheep-Lined Coats makes their prices seem very low indeed.

Get the most value for your money—get a *Lanpher* Coat.

Lanpher Sheep or Mocha Lined Vests

Snug and warm. Afford entire freedom of movement. Ideal for hunting, wood chopping—all active outdooor work and play. Get a Lanpher dealer to show you.

Write for the Lanpher Book of 1913-14 styles if you want to know more about Lanpher men's and women's clothing for outdoor wear, and where to buy them in your neighborhood.

Lanpher, Skinner & Co.,
SAINT PAUL, MINNESOTA

Ladies: Remember Lanpher Furs are guaranteed. The Lanpher book mentioned above will guide you in the selection of becoming models. You can see them at your dealers' before buying.

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Fire, Water and Lightning Resistant. Practically Indestructible.

Special Offer

A fortunate purchase enabled us to secure a limited amount of brand new, high grade corrugated iron and galvanized steel roofing, some of which we are offering, while it lasts, for as low as $1.25 a square of 100 sq. ft., f. o. b. cars, Chicago. This is only one example of how much we can save you on all your roofing purchases. Never before in the history of the roofing business has such a remarkable money-saving roofing offer been made. It doesn't make a bit of difference what kind or make of roofing you have in mind to buy—corrugated, iron, galvanized steel or ready roofing, rubber surfaced, pebble, marble, flint or gravel coated—we can supply your every need with just the kind you want. Write today for—

$1.25 Per 100 Sq. Ft. Buys Best STEEL ROOFING

FREIGHT-PREPAID PRICES

and let us **prove** that we can save you **big** money on every kind of Roofing, Siding and Ceiling. We can furnish you the material necessary for re-roofing your house, barn, granary, church, residence, garage or poultry house. We can also furnish you the siding, conductor pipe, eaves trough, and everything needed. METAL ROOFINGS ARE BEST and cheapest in the long run, easiest to lay, longest life, non-absorbent; fire and lightning proof; cooler in summer, warmer in winter; do not taint rain water; with ordinary care will last a lifetime.

New, Heavy, Galvanized Roofing 2¾c per Sq. Ft.

Just another example of how hard we've smashed roofing prices this season. Never before and probably never again will you be able to buy such roofing at this price.

We Save You Money

Now is the time to send in your order for this roofing—don't delay it a single day. Even if you do not intend to use it for several months to come, send your order in now with a reasonable deposit which will protect you in your purchase, and the material will be shipped when you are ready to use it. Metal Roofings are best and cheapest in the long run, easiest to lay, longest life, non-absorbent; fire and lightning proof, cooler in summer, warmer in winter; won't taint water; with ordinary care lasts a lifetime.

Chicago House Wrecking Co.

Prominently known everywhere to the public for 20 years as the great "Price Wreckers" and now owned by the Harris Bros. Co., have decided that their best interests require that the name of the principal owners of the company be more prominently brought to the public's notice. There is no change in our business, except that the four Harris Bros. will, in the future, advertise and sell their goods, under the name of the Harris Bros. Company, instead of the **Chicago House Wrecking Co.**

Write Today For Free Samples—and Freight Prepaid Prices

REMEMBER, no matter what kind of roofing you are contemplating buying—corrugated steel or ready roofing—it will pay you to hold off a few days until you first get our free samples and freight prepaid prices. Just drop us a postal. We will absolutely prove to you that, quality for quality, we are underselling all competition by a wide margin. You run no risk in sending us your order. Our binding guarantee, backed by this $10,000,000 Company fully protects you. Write for free samples today.

HARRIS BROS. CO., 35th & Iron Sts., Dept. BN-53 Chicago

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26-inch Hog Fence,.....14c.
41-inch Farm Fence,....21c.
48-inch Poultry Fence...22½c.
80-rod spool Barb Wire, $1.55

Many styles and heights. Our large Free Catalog contains fence information you should have.
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Save draft—save repairs. Don't rut roads or fields. Send today for free illustrated catalog of wheels and wagons.
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SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED

PURE CIDER VINEGAR.

A Subscriber, Le Claire, Iowa.—Would it be lawful for me to sell pure cider vinegar at my home and could I put up a sign advertising it for sale there?

Answer.—You have a perfect right to sell pure cider vinegar at your home, and advertise it in any way.

HUNTING LICENSE NOT NECESSARY.

A Subscriber, Rockford, Iowa.—(1) Can a farmer carry a gun and hunt and shoot crows and game on his own land, during the shooting season, without having a gun license? (2) Am I liable to a fine for carrying a gun from my house into the garden or to my barn, if I have no gun license?

Answer.—(1) He can. The law provides that owners of farm lands, their children and tenants, shall have the right without procuring a license, to hunt and kill wild animals, birds or game, upon the lands owned or occupied by them. (2) You are not liable to a fine in such a case, and you need no license.

UNITED STATES GOVERNMENT BONDS.

A Subscriber, Woodburn, Iowa.—(1) How does one proceed to invest money in United States government bonds, and what interest do they bear? (2) Are such bonds exempt from taxation?

Answer.—(1) You can invest in government bonds, through nearly any bank. Inquire of the banker with whom you do business. United States bonds are of various kinds, payable at different times. They generally bear interest from 2 to 4½ per cent. Usually they cannot be purchased in less amount than $1,000. (2) They are exempt from taxation.

LAWFUL FENCE IN ILLINOIS.

A Subscriber, Stockton, Ill.—A owns forty acres of land adjoining C's land. A uses his forty acres for hogs and put a hog-tight wire fence around it, putting hog-tight wire on C's posts between the two farms without asking C to do it. C did not object to it and nothing was said as to who should keep up the division fence. C does not keep hogs on his side of the line. A's hogs break through the fence and C refuses to fix it. (1) Is A required by law to keep the whole partition fence in repair? (2) Can A compel C to make his part of the partition fence hog tight?

Answer.—(1) A is only required by law to make and keep in repair one-half of the fence between his land, and the land of C. (2) A can compel C to make and keep in repair a lawful fence on half of the division line. The law of Illinois provides that fences four and one-half feet high, consisting of rails, timber, boards, stone, hedges, barbed wire, or whatever the fence viewers of the town or precinct shall deem equivalent thereto, shall be deemed lawful and sufficient fences. There is no law specifically providing for a hog-tight fence. Voters in any town, may, at the annual town meeting, determine what shall constitute a lawful fence in such town.

LEASE FOR ONE YEAR.

A Subscriber, Battle Creek, Neb.—A rented a farm from B for one year, from March 1, 1913, to March 1, 1914. A would like to stay on the farm another year and he had B come out to see how he farmed it and kept everything in good shape and asked B to let him have the farm for another year, but B said, "There is plenty of time to promise, but when a man farms my place well as you are doing, and keeps everything in good shape, why should I change renters?" Later A asked B for the place twice more and received the same answer. (1) Can A hold the land another year on such a promise? (2) If B wants A to leave the place on March 1, 1914, must he give A six months' notice to vacate at that time? (3) If B does not give A six months' notice to quit on March 1, 1914, and rents the place to another man, can A recover damages from B? (4) A agreed to keep up all fences and buildings on the place, but nothing was said about who should pay for staples and nails. Can A compel B to pay for them?

Answer.—(1) The rental contract was for the definite term of one year and there was no certain promise by the landlord that A could have the place longer than that time, therefore A cannot hold it lawfully after the expiration of the year. (2) B is not required to give A notice to quit. (3) A cannot recover damages if B rents the place to another for the next year without notice. (4) A cannot compel B to pay for the nails and staples.

WILL—MARRIAGE OF SURVIVOR.

A Subscriber, Humboldt, Iowa.—A and B were husband and wife residing in Iowa. A died leaving a will by which he divided his real estate equally among his three children. B made no objections to the will and three years after A's death she married again. Has her second husband any share in the real estate left by A?

Answer.—He has no share whatever.

AUTO DRIVING—DAMAGES.

An Iowa Subscriber.—(1) A had good lights on his automobile and was driving it at night on the public road at the rate of eighteen or twenty miles an hour. A calf that had been turned into the road to graze suddenly jumped from behind some weeds into the road and was struck and died of the injury later. Is A liable for the value of the calf? (2) A was driving his auto at night with good lights, and one of B's cattle which had been turned into the road to graze ran in front of the auto and was struck and the auto was damaged. Is B liable for the damage? (3) Is an auto driver liable for dogs and chickens killed by his machine when he is driving at a less speed than twenty miles an hour?

Answer.—(1) A is not liable for the value of the calf, unless he saw it in time to avoid striking it. (2) If the collision was not caused by negligence on A's part, B is liable for damages to the auto. (3) The driver of an auto has no right to run over dogs

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because of its perfect balance and freedom from repair bills—high reserve power—simple construction—low first cost—and small fuel cost—is bound to be

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if given half a chance. There is a wrong and a right way to farm. Begin now to farm with factory methods, at factory profits. Get a "Wisconsin."

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Do You Want This Steel Gate FREE

One farmer in each community can get one for helping us introduce Tro Jan Gates to his neighbors. Write for particulars.

The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 30 days' trial at our special direct-to-you factory price.

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FARM FENCE

11½ cts. a rod for a 26 in. high fence; 17 1-4c a rod for 47 inch high stock fence; 28 1-2c a rod for a 50-in. heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, $1.55. Catalog free.

INTERLOCKING FENCE CO.
BOX 17 MORTON, ILLINOIS

or chickens on purpose, or merely because they are in the road, if he can avoid doing so, otherwise he is not liable for damages when driving at a less speed than twenty miles an hour.

LIFE INTEREST IN LAND.

A Subscriber, Henry County, Iowa.—A, who is an adopted son, and an old bachelor, owns a farm only by a life lease, and rented the farm to B for a term of years. In case A should die before the expiration of B's lease, could B hold the farm till the expiration of his lease?

Answer.—A owns an interest in the land for his lifetime only. He could not lawfully lease the land for any time beyond his death, because his interest will then cease. His tenant, B, cannot hold the land after A's death.

WORK ON ROADS—ABLE-BODIED.

A Subscriber, Delhi, Iowa.—If a man is blind in one eye, or is ruptured, does the law of Iowa require him to work on the roads?

Answer.—A man is not required to work on the public roads in Iowa unless he is able-bodied. Just what infirmities or defects would prevent a man from being able-bodied for manual labor on the roads is a difficult question to determine. Blindness in one eye or a slight rupture might not interfere with such labor.

ORAL LEASE FOR MORE THAN ONE YEAR NOT BINDING.

A Subscriber, Atalissa, Iowa—A rented a plat of ground and constructed thereon a temporary house and other buildings, with the understanding that he could remove them at any time. The property changes hands often. At the last sale of it A came near being sold out by reason of the seller forgetting to notify the purchaser of the agreement about removing the said temporary improvements. A wishes to add other improvements, but is fearful of consequences. He asked the owner for a written agreement about removing such temporary improvements, but the owner refused to sign any papers. (1) What can A do to protect himself? (2) Is there any way by which A can get the oral agreement about removing his improvements on the record?

Answer.—We infer from the above statement that A rented the ground for more than one year. If this be so, the entire agreement should be in writing and signed by both parties. A is not at all safe on a mere oral agreement. He should insist on a written agreement between himself and the owner, and quit the place unless he gets it and attempt to remove the improvements already made. Contracts about real estate for more than one year must be in writing. (2) There is no way to get the oral agreement on the records.

ALLEY BY ADVERSE POSSESSION.

A Subscriber, Vinton, Iowa.—In this town there is an alley eight feet wide running east and west that has been used as such for more than twenty years. The southwest corner was fenced. My house and barn were built on opposite sides of it. The owner of land on the southeast moved his barn over south, so as to clear the alley. The three owners on the southeast have always used the alley and considered it as such, but the fourth owner finds it was not platted and recorded on the town plat as an alley, and has closed it up. Had he a right to do so, and if not, what steps can be taken to open it?

Answer.—Although the alley was not platted, the continued use of it as a public alley for twenty years makes it an alley by adverse possession in the public, and it cannot lawfully be closed by a person owning abutting land. The town authorities should bring action in the district court against the person who closed the alley, and obtain an injunction or writ of mandate against him.

JUDGMENT—INHERITANCE—DRAINAGE.

A Subscriber, Montrose, Mo.—(1) There is a judgment against a certain man who will inherit some money from his father's estate. Can the holder of the judgment collect it from the share the man will inherit? (2) A public road forty feet wide, as established by record, runs along a man's farm. His fence is set in on his land five feet from the recorded line of the roadway, and has been there more than ten years. The township board claims that said strip of five feet has become a part of the public road because of being used as such for more than ten years. Is such claim correct, and has the man a lawful right to make a ditch along his fence on the outside, to carry water from a small draw, along the road?

Answer.—(1) The holder of the judgment can collect from the man when he obtains his inheritance. (2) It is very doubtful whether the township board can hold the five-foot strip as part of the road. Unless it has been claimed as a matter of right as part of the road, as well as used, the owner of the land can hold it and he has a right to make a ditch along his fence to carry off drainage water.

DEALINGS IN STOCKS.

A Subscriber, Battle Creek, Neb.—Two stockholders in a certain company in Council Bluffs, Iowa, and an agent of said company, induced me to buy five shares of the company stock at $200 per share. One of said stockholders is my neighbor with whom I have been acquainted for twenty years. At first I refused to buy, because I did not have the money and because I knew nothing about the affairs of the company, but my neighbor said it was all right, and if I would take the five shares, and was afterwards dissatisfied he would take them off my hands. The agent arranged at the bank for me to get the money at 6 per cent and so I bought the stock. I was to have 10 per cent on the amount, and a dividend. I have only received $37.50 in the last two years. Two or three months after I bought the stock I asked my neighbor to take it off my hands, but he could not do so. The company has had trouble, and changed its name, and there was a lawsuit about it in Council Bluffs. I look to my neighbor for protection. Is there any way by which I can get my money back?

Answer.—In the absence of a written agreement with your neighbor, it would be difficult and most likely impossible for you to recover from him the money you paid for the stock. Whether or not you will be able to get your money back depends upon the financial condition of the company. It is probable that you will not get your money, unless you can sell the stock you purchased.

Although auto tires are cheaper than they were, almost every auto owner feels they are too high in price now, material in them and present day low cost of manufacture considered. We're all looking for the successful substitute for the rubber tire.

AUTOLOADING SHOTGUNS

ANY way you look at it, the Autoloader is the highest development in modern shotgun design. It puts five loads at your disposal by merely pressing the trigger. It puts the *recoil to useful work*—to eject the empty and slip in the fresh shell.

It saves the gunner's shoulder—rids his sport of annoyances—increases his shooting average.

Your danger is that in your enthusiasm over the autoloading *principle*, you may forget to insist on getting the *finest* embodiment of that principle—the *Remington-UMC* Autoloading Shotgun.

The peculiar advantages of the Remington-UMC are too many to detail here. What you want to do is to get one of the Remington-UMC dealers in this section to demonstrate them to you on the gun itself.

Remington Arms-Union Metallic Cartridge Co.
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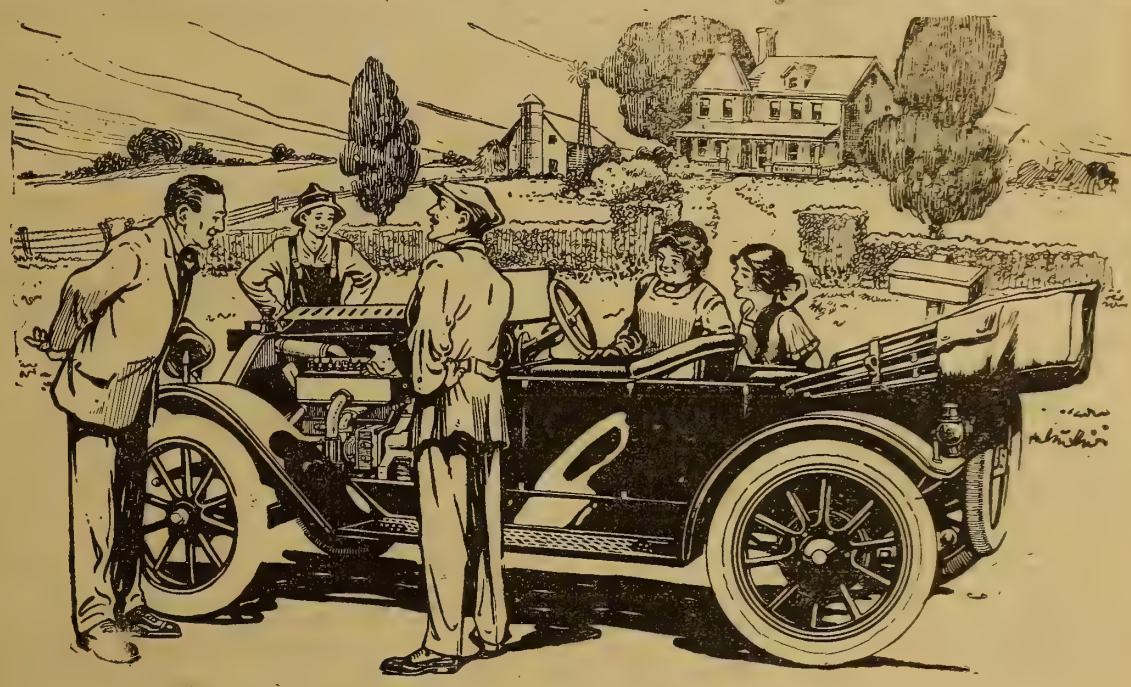

You already know that we believe the Hupmobile to be the best car of its class in the world.

If you don't share our conviction now, we doubt that you will be able to avoid sharing it after you have seen and inspected the new Hupmobile.

Because the more thoroughly you go into details of design and structural features, the more thoroughly you will realize and approve the strength of our belief.

The powerful, economical small-bore long-stroke motor is as uncommon among cars of the Hupmobile class as its compactness and soundness of design are uncommon among automobile motors.

When the dealer raises the Hupmobile hood you will see the cylinders and the intake and exhaust manifolds cast in one piece.

You will see the valves—and every working part of the motor clutch and transmission—enclosed and fully protected from dirt and grit.

The dealer will tell you that this construction requires a greater amount of expensive aluminum than any other car of the Hupmobile class uses.

The fact that the Hupmobile uses a greater amount of costly spring steel is another impressive item that sets it above cars of its class.

We could sell as many Hupmobiles, doubtless, without building-in these costly materials.

But cars of lesser quality could not give the day-in-and-day-out economical and satisfactory service that is the big feature of Hupmobile ownership on the farm and in the city.

So we spend more money in design and construction that you may have longer life and service in the Hupmobile.

We shall be glad to have the nearest dealer give you a thorough demonstration if you will say so when you write for the details of the 1914 Hupmobile.

Hupp Motor Car Company, 1224 Milwaukee Avenue, Detroit, Michigan

Hupmobile

"32" Touring Car or Roadster—$1050 f. o. b. Detroit

Four-cylinder, long-stroke motor, 3¼x5½ inches; unit power plant. Selective type transmission, sliding gears. Center control. Full floating rear axle. 106-inch wheel base. Tires, 32x3½, Q. D. Rear shock absorber. Magneto rain shield. Equipment—Rainvision, ventilating windshield; mohair top with envelope; Hupmobile Jiffy curtains; speedometer; cocoa mat in tonneau; Prest-O-Lite, oil lamps; tools. Trimmings, black and nickel.

"32" Touring Car or two-passenger Roadster with Westinghouse two-unit electric generator and starter; electric lights; over-size tires, 33x4 inches; demountable rims, extra rim and tire carrier at rear—$1200 f. o. b. Detroit.

DAIRY

MILK REQUIRED TO RAISE A DAIRY CALF.

The Illinois Experiment Station has recently conducted an experiment designed to determine how small an amount of milk a calf will thrive on without in any way impairing its growth or affecting its digestive system injuriously. The result of this experiment proves that it is a most important thing in raising calves to give them a good start. During the first two weeks of their lives they must have a reasonable amount of whole milk or milk containing at least 3 per cent of butter fat. After this their feed may be gradually changed to skim milk, but until they are about eight weeks old they must receive practically all of their nourishment in the form of milk. If calves are required to obtain even a portion of their nutrients from grains or hay when they are less than seven weeks old their digestive systems will become badly deranged and even though they are continued on a generous amount of milk for a considerable length of time damage has been done from which they will not rapidly recover.

Three of the calves in this experiment were entirely weaned from milk when they were forty-two, forty-five and forty-six days of age respectively. After that they were obliged to subsist on grain and hay alone. This resulted in developing a feverish condition in the digestive tract. They showed an abnormal craving which they tried to satisfy with water, drinking such large amounts that they breathed with great difficulty. This copious supply of water in turn seemed to generate digestion troubles. At the end of two months these calves were exceedingly thin, but careful feeding later developed them almost normally. It is carrying the practice of economy too far, however, to deprive calves of milk at such an early age as was the case in this instance.

For the first ten days the calf requires about twelve pounds of milk, and a slight economy may be practiced by using ten pounds of whole milk and two pounds of skim milk per day. After this period it was found to be practicable to change to one pound per day, thus substituting a pound of skim milk for a pound of whole milk. At the end of twenty-five days the calves in this experiment were receiving whole milk only. For the next twenty days or until they were forty-five days old they received twelve pounds of skim milk per day, after which they received one pound per day less until the supply was entirely cut off. In addition to the milk a ration composed of four parts oats, four parts corn, one part bran and one part linseed meal was used and in addition good clover hay was fed. When fed in this way the calves made a gain of sixty-five pounds during the first seventy days of their lives.

As the result of one test it was found that to raise a calf in good thrifty condition it required from 137 to 167 pounds of whole milk and from 378 to 491 pounds of skim milk. The average amount of food required in feeding out twenty-eight calves was 134 pounds of whole milk and 422 pounds of skim milk, making a total of 556 pounds. Computing skim milk at twenty-five cents per 100 pounds and the whole milk at $1 per 100 pounds the cost of milk required to raise a calf was $2.40. With whole milk selling at $1.20 per 100 pounds the cost is $2.67 while at $1.80 per 100 pounds, which is an extreme price, the cost of the milk alone was $3.48. This would indicate that after all the cost of milk required to raise a calf is not excessive, though an enormous number of calves from good dairy cows are sacrificed each year simply because dairymen feel that they are not in a position to afford the milk required to raise them.

ECHOES FROM A KANSAS FARM.

The first week of October was warm, with some moisture. This combination was hard on the shock corn. It has molded and partly rotted many of the shocks that were not standing perfectly straight, and the outer bundles were badly weather beaten on the perfect shocks.

Those who have their roughness in silos are ahead as far as damage from the weather is concerned, but there is still conjecture as to just how valuable this drouth silage will be. It is a common opinion that those who figure on this year's silage feeding out as silage has in other years will be greatly disappointed.

We have put up ten acres of shock corn in two round stacks, getting it in before the last rainy spell. We were told that the drouth fodder would keep no better in the stack than in the shock, but ours is keeping all right. It was only damp enough to handle nicely when stacked, and although the stacks have settled considerably, the fodder has not turned nor has it molded a particle. At the first opportune time we will stack more.

The storms keep on in their habit of letting down moisture in streaks as they have done throughout the season, in one locality a rain will be heavy while but a few drops may fall but a short distance away. Some localities have ponds and all watercourses full to overflowing, but most of us would still like to have more moisture before freezing weather.

Corn is slightly cheaper. Were offered a carload by a dealer at seventy-six and one-half cents, last week. Those who were in a hurry to lay in their supply at eighty and eighty-five cents will figure they missed it, for in all probability the price will go lower as cribbing time draws near for those in sections of this universe where corn was raised. Next spring, though, we may reasonably expect very high-priced grain.

$1.90 FOR THIS DANDY GATE

These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**

Iowa Gates

The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

IOWA GATE CO., 9th St., Cedar Falls, Ia.

BEATRICE

Beats all on Close Skimming

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Cream Separator

Roof Your Silo With Steel

The **Economy Galvanized Steel Roof** is securely nailed to rafters which adds strength to the silo. It is permanent—easy to put on. When connected with a grounded wire protects your silo from lightning. The **Economy Roof** fits silos of all constructions. Wood, cement, hollow tile, brick or steel. It's cheaper and more durable than wood. Write for illustrated folder.

ECONOMY STEEL PRODUCTS CO., 20 N. Third Street, DES MOINES, IOWA

100 Lbs. SUGAR $1.75

—white granulated, costs $6.00 elsewhere, with Coffee, Rice, Soap, etc., all at big saving. Sugar sample and Catalog for 10 cts. postage, refunded on first order. AGENTS wanted. Easy, quick profits. Credit. Act quick. Be first. Complete outfit, Catalog, Sugar sample, etc, 15cts. None free.

Globo Ass'n, Dep o5 Chicago. (Established 16 yrs)

MONEY IN GRAIN.

$10.00 buys puts or calls on 10,000 bushels of wheat or corn. **No further risk.** A movement of 5c from price gives you an opportunity to take $500; 4c, $400; 3c, $300, etc. Write for particulars. **Finance Brokerage Company,** Desk 8, Finance Bldg., Kansas City, Mo.

FOR SALE

ONE Hart Parr oil tractor and two engine plows. Will dispose of same at a sacrifice as I have no use for the outfit. Address
H. C. Davis, 826 So. 6th St., St. Joseph, Mo.

WANTED Salesman or farmer to co-operate in distributing Silos, Silo Fillers, Implements and Specialties. Up-to-date proposition. HUDSON BAY LUMBER CO., Lackawanna, New York.

The William Galloway Farm
AND BOTH HERDS OF
Holstein and Ayrshire Cattle
WILL BE SOLD ABSOLUTELY WITHOUT RESERVE ON
NOVEMBER 5 AND 6, 1913

THE farm itself of 180 acres and the modern dairy equipment upon it offers one of the greatest chances for big dairy or live stock profits in the corn belt. It is situated so that the markets of Chicago, Des Moines, Omaha, St. Paul and Minneapolis, just a few hours away, are ready to take the entire butter production, while Waterloo itself will take all the high class certified milk which can be produced at ten cents per quart. This is the best equipped dairy farm in the corn belt and the highest class proposition for a good, live dairyman anywhere in the West.

HOLSTEINS.

Among the cattle to be offered on sale day will be included King Segis Pontiac Combination 94710, a son of King Segis Pontiac 44444 and King Pontiac Girl 120834, whose sister, Spring Farm Pontiac Lass, holds the world's record of 44.153 pounds butter in seven days. This is the best bred young bull west of the Mississippi river today.

Also will be offered Fay Jewel Beauty 59866, grand champion Waterloo Dairy Show, 1912, grand champion National Dairy Show, Chicago, 1911; Daisy Mercedes Johanna Ormsby 78049, one of the best producing cows in the country, a 26.36-pound cow; and Daisy Mercedes Johanna Ormsby 2d 194972, a show heifer in every particular and said by eminent judges to be one of the finest produced last season. Lady Grace De Kol Johanna 67412 with a record of 20.46 pounds of butter in seven days, is a wonderful individual.

AYRSHIRES.

Among the Ayrshires will be offered Auchenbrain Good Gift 15487, one of the noted herd bulls, an imported animal of splendid conformation and most excellent breeding.

Among the cows will be Imported Howie's Ladylike 21432, said by Professor Kennedy to be an ideal type of Ayrshire dairy cow; Nona 2d of Avon 23090, a wonderful individual and a high-class show animal; Clemie of the Briers 33874, a cow now in a year's test for the A. R. O. (She milked about 70 pounds a day when fresh last January.)

Lady Hopeful's Pride 34428, and Dalpeddar Lady Taylor 30666, show cows of great merit, to say nothing of the blood of the prominent Milkman and other high-class Ayrshire strains.

Catalog ready. Remember the sale dates, and let nothing interfere with your being present as this stuff will go in its entirety, owing to my lack of time to give this wonderful farm and herds my personal attention.

There will be 20 head of Hampshire brood sows and early spring gilts, as well as the Hampshire herd boar, Rollen True. Our entire herd of show and breeding Durocs which we were just getting nicely started will also be offered, show gilts and sows and herd boars among these Durocs that will bring any breeder Duroc notoriety.

WILLIAM GALLOWAY - - - WATERLOO, IOWA

HOLSTEIN-FRIESIAN CATTLE.

65 HEAD REGISTERED HOLSTEIN-FRIESIAN COWS AND HEIFERS

I AM offering a splendid lot of cows and heifers for sale, due to calve in the fall to a son of King of the Pontiacs, or Sir Pontiac Ragapple Korndyke. Will make prices to suit for next sixty days. Also a few bulls of serviceable age for sale. Address **ROCK BROOK FARM, Station B., OMAHA, NEB.**

Pure-bred Registered
HOLSTEIN CATTLE

Large sums are put into land, buildings, horses, machinery and labor in order to maintain cows that are utterly unable to return a profit.

On a dairy farm the efficiency of the herd should be the first consideration. With good pure-bred Holsteins you are sure to earn a generous profit on any intelligent investment of your money, time and labor.

After the cost of her feed is deducted a good Holstein will return a profit of $60 to $100 per year in addition to a valuable calf.

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HOLSTEIN BULLS AND BULL CALVES FOR SALE.

Come and see them or write.

THE CHICAGO STOCK FARMS
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FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

HOLSTEIN COWS, HEIFERS, BULLS

250 HEAD in herd. Some very choice young bull calves. Write us; let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
WOODLAWN FARM - STERLING, ILL.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

BRED FOR PRODUCTION HOLSTEINS
Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

HOLSTEIN and Ayrshire bred cows and heifers $250 up. Bulls all ages. Hampshire boar pigs $15 up. William Galloway Farm, Waterloo, Iowa.

AYRSHIRE CATTLE.

EDELWEIS AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

FRED TSCHUDY & SON
Monroe Wisconsin.

GUERNSEY CATTLE.

GRADE GUERNSEYS and HOLSTEINS

FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

JERSEY CATTLE

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

Jerseys For Profit
AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., N.Y.

NELSON SUBMERGED TANK HEATER

Note Construction: No heat going to waste, all passing under the water. Indispensable to all farmers. Pays for itself in two months with two cows. Burns straw, corn cobs, all rubbish, coal and wood. Ashes removed in a few seconds without disturbing the Heater. Heats water with one-half less fuel than any other Heater. Let us send you a Heater on two weeks' free trial, just as we have to thousands of others. This heater is now in use in thirty states, and Canada. If not sold by your dealer, do not neglect sending for catalog and price, now while it is fresh in your mind. A postal will bring our catalog and testimonials free of charge.

Nelson Mfg. Co., 19 Wall Street, Deerfield, Wis.

SAVE One-Fourth Your By Grinding **FEED**

WE OFFER GENUINE **Martin Grinders** 8 TYPES 14 SIZES

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We also manufacture Gasoline Engines in 4 types, 20 Sizes ½ to 30 H. P. for All Fuels. Guaranteed Pitless Scales and Farm Electric Lighting Plants

Stud Anchor. For barns, corn cribs, garages, using **concrete** wall, pier or floor. No sills needed, nothing to rot. Studs bolted to foundation.

Stud Anchor Works, Mendota, Ill.

$100 takes my Flanders motorcycle; ran 200 miles; perfect mechanically; will ship c.o.d. on receipt of $5. Clarence Arnett, Prophetstown, Ill.

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Scottish Terriers

THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. HARR - - - RIVERSIDE, IOWA

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH COLLIE PUPPIES

HIGH-class puppies, the **best blood** in America, from registered sires and dams. Beauties, and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead.
T. A. STEVENSON, SHANNON CITY, IOWA

FOR SALE Two pups only. The last from Carmen Chief, the St. Bernard winner of 7 ribbons at Portland and Boston in 1910. Address Howard S. Cooper, R. 4, Wellman, Iowa.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

NOTICE MEN--- COLLIE and AIREDALE pups let out on shares. Some for sale. Circulars and price lists. No $5.00 ones. P. L. Savage, St. Charles, Illinois

BRIGHT, intelligent Collie pups from trained stock, pedigrees, eligible to registry in A. K. C. Address Mrs. A. N. Bonnett, Birmingham, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

SMOOTH FOX TERRIERS Best breeding, splendid individuals, great ratters. Special prices. Address N. R. Rogers, Peru, Nebraska.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

FULL BLOODED FOX TERRIERS for sale. 1 trained female 2 years old; one 7 months old pup, $5 each. Address W. S. Huber, Tipton, Iowa.

FOR SALE Full blooded Fox and Wolf Hound Pups, 8 months old. Address Henry Althoff, Lansing, Iowa.

ORPINGTONS.

SINGLE Comb White Orpington Hens and Pullets at attractive prices. Choice cockerels at $1 up. Mrs. Howard Niswander, Kinross, Iowa.

241 EGG strain. S.C. Buff Orp. World's champion layers. 100 choice early hatched ckls. Prices right. Circular free. W. L. Bardsley, Neola, Iowa.

PLYMOUTH ROCKS.

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Loue Oak Farm, Linevi le, Ia., Jas. H. Duncan, Proprietor.

LANGSHANS.

FANCY big-boned, greenish, glossy, black eyed Langshans, $5 each. Good breeders, three for $5, cockerels, pullets. H. Osterfoss, Hedrick, Iowa.

DUCKS.

FAWN and white Indian Runners. Early hatched from prize winners, (mated 3 ducks, 1 drake) $5, other $1 up. Mrs. Howard Niswander, Kinross, Ia.

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

FAWN AND WHITE Indian Runner ducks and drakes, October sale, $1.00 each. All winners. Address Bert A. Randell, Mt. Zion, Iowa.

$10.00 PER DOZEN. Yearling Indian Runner ducks, Faun, also Penciled. Some winners. R. O. Dickson, Box 30, La Harpe, Illinois.

75 Indian Runner Ducks pure fawn and white, fawn heads, $1 each. Mrs. Will Michael, Selma, Iowa.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

THE WINTER SUPPLY OF VEGETABLE FOOD.

To the Editor of The Homestead:

Vegetable food of some kind as a part of the poultry ration is now regarded as essential to the greatest success in winter egg production. If this fact was kept in mind when harvesting the late vegetable and root crops it is probable that a number of home products have been secured, some of them to be fed in the raw state and others to be steamed or cooked, for adding succulency to the ration at a time when such food is difficult to obtain.

Cabbage is, perhaps, one of the best green foods for winter use, as it tends to keep the fowls in good health, and they relish it very much. Cabbage heads can be chopped up and cooked with the mash, or they may be hung up in the poultry house for the birds to pick at. Cabbage is fairly easy to keep through the winter. The best method of storing it is to pit the heads. Freezing will not hurt them for poultry food if they do not freeze and thaw alternately with every change of the weather. If one does not have a sufficiency of cabbage in his own garden to have a surplus for the chickens, it is usually possible to obtain a good supply at small cost in late fall from growers who do have a surplus.

Turnips, beets and small potatoes not large enough for table use can be saved for poultry to good advantage. Turnips are good as an appetizer. They may be chopped fine and fed raw, or else cooked with the mash. Beets also may be cooked in with the mash as may a limited amount of potatoes. It is best not to feed potatoes very liberally unless the fowls are receiving plenty of animal food. Potatoes are composed largely of starch, so the fowls require animal food containing a large proportion of protein to balance up the starchy potatoes and thus make a proper ration. Turnips, beets and potatoes may all be pitted outdoors if no cellar is available for their storage, and if the work of pitting is done properly they will go through severe cold weather in good shape. The pits should not be opened when the temperature is much below the freezing point, however, as the cold air thus admitted may do considerable damage to the roots.

Onions, parsnips, etc., may also be given to poultry in moderate quantities if cut fine and cooked with the mash. Every poultry raiser having a surplus of any of the various garden crops should make arrangements to store them at the proper time, as his flock of layers will make profitable use of them before spring arrives.

Along with garden crops clover is a valuable winter feed, whether fed dry, or steamed and fed in a bran mash. Where clover hay is fed to the stock the shatterings can be saved for the hens, or a special supply of the hay can be put aside solely for the use of the poultry. This should be chopped up into short lengths and steamed before feeding. W. F. Purdue.

The food research labaratory of the bureau of chemistry is conducting experiments in canning eggs for winter use. Specialists in this department are enthusiastic about this branch of the poultry business. Only perfect eggs are used for canning and the utmost cleanliness is practiced. Eggs must be kept at a temperature low enough to prevent spoiling. Well, we shall see what we shall see. Anyhow it sounds better than the old-time idea that a composition substitute for eggs was evolved. Nature has beaten us on some things.

POINTERS

—E. A. Bergsten, Sperry, Iowa, is advertising Single Comb Leghorn Cockerels for sale at $1 each. This is a chance to get some good cockerels at a reasonable price. See this page.

—Mrs G. W. Brockway, Clarksville, Iowa, will offer some big bargains in Rose Comb Brown Leghorn hens and cockerels, Fawn and White Indian Runner ducks and drakes, and also a few White Indian Runner drakes of the Fischel strain. Her advertisement appears on this page.

—On this page appears the new advertisement of J. D. Smith, Montezuma, Iowa. He writes: "As I am going to move to Minnesota December 1st, will close out my surplus stock of 500 head of Wyandottes, turkeys, geese and ducks at greatly reduced prices. The quality is as good or better than ever and all are in perfect health. In getting this stock within the next thirty days the express will be less. Here is a chance of getting the best at one-half the price asked by others. If in need don't fail to get my prices. Look for the advertisement and write at once."

Hog Cholera Poultry Roup

Keep your stock in fine shape. At the first sign of disease in hogs, chickens or other live stock use Sloan's Liniment. Read what others did.

Governor of Georgia Uses Sloan's Liniment for Hog Cholera

Gov. Brown says that he has never lost a hog from cholera, and that his remedy has always been a tablespoonful of Sloan's Liniment in a gallon of slops, decreasing the dose as the animal improved.

SLOAN'S LINIMENT

Sure Remedy for Roup

Sloan's Liniment applied to the affected parts is the speediest and surest remedy for roup and canker in all its forms, especially canker in the windpipe.—*E. R. Spaulding, Jaffrey, N. H.*

She Cannot Say Enough In Its Praise

In the fall my chickens were all sick, including some white leghorns. One had bumble-foot and one had the worst kind of a sore mouth and windpipe, her eyes were closed and her head turned round to the back.

I used Sloan's Liniment on them and I am happy to say that every one of them got well. I cannot say enough to its praise.—*Mrs. J. W. White, Montgomery, Ala.*

Sloan's Book on Horses, Cattle, Sheep and Poultry Sent Free

All Dealers. Prices 25c, 50c and $1.00 Address Dr. Earl S. Sloan, Inc., Boston, Mass.

USE GERMOZONE

For Bowel Complaint in old or young chickens: Clean up, change feed and give Germozone, a teaspoonful to a quart of drinking water.

For Roup, Colds, watery eyes or nostrils, swelled head, nostrils stopped up, etc., a teaspoonful of Germozone to a glass of warm water. Inject through the nostrils into the head passages. Wash soiled places under the wings with same solution. Give Germozone in the drinking water as for bowel trouble.

For Yellow Canker or diphtheria in mouth or throat of chickens: Remove the canker and apply Germozone right from the bottle. One application generally effects complete cure.

For Regulating Bowels: Give Germozone twice a week as for bowel complaint. It is marvelous how much better chickens will thrive, grow, or produce when bowels are kept regular.

For any Sore, Cut, Wound, Burn, irritation, itching or tenderness of the skin, apply Germozone diluted, one teaspoonful to a glass of water.

For Old Sores, Ulcers, etc., apply Germozone full strength (right from the bottle) once or twice a day.

For Dogs, Singing Birds, and pet stock, a little Germozone in the drinking water (a teaspoonful to a quart of water) is a great bowel regulator, mouth and throat cleanser. Many birds do not sing because of sore throat. Germozone will generally start them singing.

Many other uses. See our large pamphlet for complete list of uses of Germozone.

GERMOZONE may be purchased at most every town; 10,000 dealers in U. S. Fifty cents per bottle. Sample 10 cents postpaid. Booklets free.

GEO. H. LEE CO., Omaha, Neb.

WYANDOTTES.

White Wyandotte Cockerels

AND COCKS FOR SALE. No brass in plumage, good eyes and legs, from No. 1 layers, $2 to $5 each; 6 for $10, and up. Order at once. Have only a few to spare. **John M. Hall, Williams, Iowa**

R. C. W. Wyandottes. Will sell yearling ckls. and hens mated in pens of 1 cock, 8 hen, $8; 2 cocks, 25 hens, $20; ckls., $1. Carl Ehlers, R. 3, Gretna, Neb

PARTRIDGE Wyandottes, 50 fine cockerels and yearlings at prices from $1.50 up. Special prices on a few hens. Thos. L. Morlan, Indianola, Iowa.

FAHA'S Silver Wyandottes; great stock reduction sale now on; 200 young Silvers; bargain prices. Write wants. Frank Faha, Jr., Bx.626, Dyersville, Ia.

WHITE WYANDOTTES. Choice pullets and ckls. for sale. Geo. W. Livingston, Monroe, Ia.

LEGHORNS.

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels; also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Fischel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

S. C. BROWN LEGHORNS-- A limited number of choice Ckls. and pullets at $1.00 each till Nov. 1st. Write me for exhibition stock. Orlando Jacobs, New London, Iowa.

250 S. C. BROWN LEGHORN cockerels, hens and pullets, 75c and $1 each. Sires score to 93½. Winners for 10 years. Buff Cochin Bantams, 75 cents. Address Mrs. Will Michael, Selma, Iowa.

SINGLE COMB BROWN LEGHORN COCKERELS $1 each while they last. Address E. A. Bergsten, Sperry, Iowa.

ROSE COMB BROWN LEGHORN COCKERELS 75 CENTS each until Dec. 1. Mrs. John L. Roberts, Chapin, Ia.

SINGLE Comb White Leghorns, 250 ckls. at bargain prices, guaranteed to please, $1 and up, circular and show record free. W. F. Wallace, Diagonal, Ia.

FOR SALE: S. C. W. LEGHORNS. One-year-old hens at $10 per dozen. Also fine lot of cockerels. Mrs. S. J. Philson, Harlan, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels. $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley, Selma, Ia.

FOR SALE S. C. W. Leghorn cockerels, 90c each. Alfalfa seed, $8.00 per bushel. Address A Jacobson, Madrid, Iowa.

LEGHORNS--- Rose and Single Comb, Buff, White and Brown, $1.00 each. Doz. $10.00. Progressive Poultry Farm, Hampton, Iowa.

S. C. W LEGHORNS Several dozen pullets, some hens and a few cockerels; $6 per dozen. A. Albright, Harlan, Iowa.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY

Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

Blood Red Strain S. C. Reds

THEY were the clean up blue ribbon winners at Iowa State Fair, Bloomfield, Ottumwa and Grinnell this season. Cockerels one-half price now. Buy during October and get the choicest. Price $1 and $2 each now. Will be $5 and $10 later.
F. L. Reinhard & Son, Ottumwa, Iowa

FOR SALE—R. C. R. I. Red hens, Pullets $1.50 each, $15.00 per doz. Cockerels $2.00 each, $18.00 per doz. Mrs. Charles Belz, Conrad, Iowa.

BRAHMAS.

MY HEAVY WEIGHT, Light Brahmas won 14 premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

MISCELLANEOUS.

Smith's Big Removal Sale

AS I am going to move to Minnesota December 1, I will sell my entire flock of Bronze turkeys, Pekin ducks, Embden geese and S. L. Wyandottes, at big reduction if taken at once. These are all high-class and well-marked birds.
J. D. SMITH - - MONTEZUMA, IOWA

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa

GREAT BARGAINS Throughbreds. 40 young M. B. toms. Also single comb Red cockerels. Good chance to make money if taken soon. Rosalie Newberry, Box 6, Argyle, Lee Co., Ia.

CHOICE Pure-bred Reds (either comb) yearling hens, ckls., pullets, price $1 each. Indian Runner ducks $1.50. Mrs. Laun, Riverdale Farm, Floyd, Ia.

75 S. C. B. Orpington hens $1 each. 100 ckls. $1.50 to $5 each. Good size and color. Mammoth Pekin ducks $1. Mrs. W. E. Zimmerman, R. 5, Neola, Ia.

G. I. RING, Center Point, Ia., has for sale Plymouth Rock cockerels and pullets, White Leghorn cockerles, R. I. Reds and one Pheasant cockerel.

W. P. ROCK COCKERELS $1.50 each; W. R. pullets and hens $1.25 each. B. W. Eckels, Nevada, Iowa.

BLACK LANGSHAN COCKERELS at a bargain if taken this mo. from penned stock. Bruce Cavitt, Mt. Sterling, Ia.

S.C.R.I. Red Cockerels from $1 up; also a few good cock birds and hens. Address Mrs. Sophia Rader, Laurel, Ia.

LAMBSDOWN Union Suits are noted for their great warmth and comfortable fit. The thick, downy fleece assures this.

Lambsdown

Fleece-Lined Underwear

is easily good for two seasons' wear. Its lasting qualities cut your underwear-bills in half.

Your health and comfort demand a heavy fleece-lined underwear during severe cold weather.

Made for Men and Boys

Union Suits and separate garments, at 50c, 75c and up. At your dealer's.

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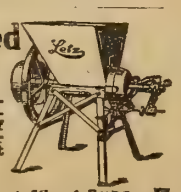

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Try it for ten days — if it don't grind finer, faster, cheaper than other mills send it back at our expense. Write today for details, stating H.P. of your engine.
Letz Mfg. Co., 206 East Road, Crown Point, Ind.

IOWA STATE DAIRY ASS'N SHOW.

(Continued from page 11.)

on Zell I.; 3d Allyn on Show Boy of Allynhurst; 4th Ayers on Zell H.

Cow 4 Years or Over (5 shown)—1st Allyn on Arlene; 2d Allyn on Merry Merney; 3d Ayers on Minnie A.; 4th Ayers on Merney; 5th Allyn on My-One-Baby.

Cow 3 Years and Under 4 (2 shown)—1st Allyn on Belle of Grattan; 2d Ayers on Peach.

Cow 2 Years and Under 3 (3 shown)—1st Ayers on Zelma H.; 2d Allyn on Givinilla of Allynhurst; 3d Ayers on Alice Hansen.

Heifer 1 Year and Under 2 (6 shown)—1st Ayers on Zell's Crocus; 2d Allyn on Show Girl of Allynhurst; 3d Allyn on Zell's Brownie; 4th Ayers on Miss Cincey; 5th Ayers on Miss Collier.

Heifer Under 1 Year (7 shown)—1st Allyn on Merry Maid of Allynhurst; 2d Allyn on Colett of Allynhurst; 3d Ayers on Ernetta G.; 4th Allyn on Iown 4th of Allynhurst; 5th Ayers on Zelia.

Cow having official record begun at 5 years or over (4 shown)—1st Allyn on Arlene; 2d Allyn on Merry Merney; 3d Ayers on Merney; 4th Allyn on My-One-Baby.

Cow having yearly record begun at 2 years under 5 (4 shown)—1st Allyn on Belle of Grattan; 2d Allyn on Iown of Allynhurst; 3d Ayers on Merney; 4th Allyn on Betty of Allynhurst.

Exhibitor's Herd (3 shown)—1st Allyn; 2d Ayers; 3d Ayers.

Young Herd (2 shown)—1st Allyn; 2d Ayers.

Calf Herd (2 shown)—1st Allyn; 2d Ayers.

Get of Sire (4 shown)—1st Ayers; 2d Allyn; 3d Allyn; 4th Ayers.

Produce of Cow (5 shown)—1st Allyn; 2d Ayers; 3d Allyn; 4th Ayers; 5th Allyn.

Dairy Herd, 4 Cows in Milk Owned by Exhibitor (2 shown)—1st Allyn; 2d Ayers.

Senior Champion Bull—Allyn.
Junior Champion Bull—Allyn.
Grand Champion Bull—Allyn.
Senior Champion Cow—Allyn.
Junior Champion Cow—Ayers.
Grand Champion Cow—Allyn.
Cow with official record—Allyn.

JERSEYS.

The exhibit of Jersey cattle included 223 head from the herds of Ed C. Lasater, Falfurrias, Texas; Elmendorf Farm, Lexington, Ky.; George T. Slade, White Bear Lake, Minn.; J. K. Dering, Lake Villa, Ill.; W. S. Dixon, Brandon, Wis.; John F. Boyd, Rushville, Ind.; Henry Webster & Sons, Minneapolis, Minn.; Nelle Fabyan, Geneva, Ill.; Whitacre & Son, West Liberty, Iowa; Will Thompson, Jesup, Iowa; George Martin, Darlington, Wis.; John B. Stump, Monmouth, Ore. The awards which were made by John A. Lee, Shelbyville, Ky., were as follows:

Bull 3 Years or Over (7 shown)—1st Fabyan on Ocean Blue; 2d Boyd on Derry's Jolly Lad; 3d Elmendorf Farm on Distinction's Noble; 4th Dering on Eagle's Chief; 5th Whitacre & Son, on Violet's Majesty.

Bull 2 Years and Under 3 (5 shown)—1st Lasater on Noble's Eminent Lad; 2d Boyd on Togo's Lad; 3d Slade on Noble Ruler; 4th Stump on Folden Maid's Prince; 5th Webster & Sons on Combination You'll Do.

Senior Yearling Bull (5 shown)—1st Elmendorf Farm on Elverian Lad; 2d Lasater on Sensational Nobleman; 3d Dixon on Favourette Oxford Modeller; 4th Whitacre & Son on The King's Majesty; 5th Martin on Raleigh's Avon Fox.

Junior Yearling Bull (3 shown)—1st Lasater on Alice's Royal Majesty; 2d Dixon on Coulisse's Oxford Majesty; 3d Dering on Cedar Crest Lad.

Senior Bull Calf (12 shown)—1st Dixon on Rosebay's Oxford Majesty; 2d Boyd on Jolly Lad's Jubilee; 3d Elmendorf Farm on Algerian Noble; 4th Lasater on Stockwell's Chief; 5th Slade on Rosabelle's Cupid.

Junior Bull Calf (9 shown)—1st Boyd on Sensation's Jolly Lad; 2d Elmendorf Farm on Viola's Noble Jolly; 3d Elmendorf Farm on Oxford Lad of Elmendorf; 4th Lasater on Rosabel's Nobleman; 5th Whitacre & Son on Nobel's Majesty.

Cow 5 Years or Over (8 shown)—1st Lasater on Lady Jolly; 2d Elmendorf Farm on Stockwell's Daisy; 3d Stump on Stockwell's Dahlia; 4th Webster on Coulisse; 5th Elmendorf Farm on Doctor's Maid 3d.

Cow 4 Years and Under 5 (4 shown)—1st Boyd on Oxford Lad's Sensation; 2d Dering on Eulindas Venner; 3d Fabyan on Swift's Persian Rose; 4th Martin on Freda's Minute Gun.

Cow 3 Years and Under 5 Bred by Exhibitor (1 shown)—1st Martin.

Cow 3 Years and Under 4 (7 shown)—1st Lasater on Noble's Carnation Maid; 2d Boyd on Eminent's Plymouth; 3d Webster on Merry Lad's Lulu; 4th Stump on Pauline Chrysanthemum; 4th Elmendorf Farm on Goddington Salvador 7th.

Heifer 2 Years and Under 3 (9 shown)—1st Lasater on Mary of La Mota; 2d Lasater on Stockwell's Jolly Fern; 3d Dering on Violette's Rosie; 4th Webster on Eminent's Golden Leda; 5th Elmendorf Farm on Noble's Obedience.

Heifer 18 Months and Under 2 Years (13 shown)—1st Elmendorf Farm on Stockwell's Daisy Princess; 2d Slade on Panola's Oxford Ixia; 3d Webster on Ibsen's Glory Coulisse; 4th Lasater on Beauty's Mary of La Mota; 5th Elmendorf Farm on Boy's Nursie.

Heifer 12 Months and Under 18 (16 shown)—1st Elmendorf Farm on Noble's Cocotte; 2d Elmendorf Farm on Noble Lady Margate; 3d Boyd on Scientific Sultana; 4th Dixon on Majesty's Oxford Queen Rose; 5th Elmendorf Farm on Noble's Fluffy.

Heifer 6 Months and Under 12 (16 shown)—1st Elmendorf Farm on Noble's Jolly Nora; 2d Lasater on Fontaine's Windsor Princess; 3d Boyd on Jolly Lad's Rowena; 4th Webster on Fern's Princess Belle; 5th Elmendorf Farm on Distinction's Katherine.

Heifer Under 6 Months (7 shown)—1st Lasater on Noble's Jolly Fern; 2d Lasater on Nobleman's Lady Jolly; 3d Stump on Noble Peer's Jewel; 4th Elmendorf Farm on Noble's Lady Fox; 5th Dixon on Oxford's Coulisse.

Cow having official yearly record begun at 5 years or over (1 shown)—1st Elmendorf Farm on Stockwell's Daisy.

Cow having official yearly record begun at 2 years (1 shown)—1st Elmendorf Farm on Noble's Beautiful Nelly.

Exhibitor's Herd (7 shown)—1st Lasater; 2d Elmendorf Farm; 3d Boyd; 4th Webster; 5th Stump.

Young Herd (5 shown)—1st Elmendorf Farm; 2d Dixon; 3d Lasater; 4th Stump; 5th Dering.

Calf Herd (4 shown)—1st Elmendorf Farm; 2d Stump; 3d Dixon; 4th Dering.

Get of Sir (9 shown)—1st Elmendorf Farm; 2d Elmendorf Farm; 3d Stump; 4th Lasater; 5th Boyd.

Produce of Cow (7 shown)—1st Dixon; 2d Webster; 3d Stump; 4th Lasater; 5th Fabyan.

Dairy Herd of 4 Cows in Milk (4 shown)—1st Lasater; 2d Elmendorf Farm; 3d Webster; 4th Martin.

Senior Champion Bull—Lasater on Noble's Eminent Lad.

Junior Champion Bull—Dixon on Rosebay's Oxford Majesty.

Grand Champion Bull—Lasater on Noble's Eminent Lad.

Senior Champion Cow—Lasater on Lady Jolly.

Junior Champion Cow—Elmendorf Farm on Noble's Jolly Nora.

Grand Champion Cow—Elmendorf Farm on Noble's Jolly Nora.

HOLSTEIN-FRIESIANS.

The exhibitors of this breed turned out in goodly numbers and put 174 head through the rings. The herds represented were those of Iowana Farms, Davenport, Iowa; C. A. Nelson, Waverly, Iowa; Frank White & Son, Woodstock, Ill.; R. E. Haeger, Algonquin, Ill.; George J. C. Copestake, Ames, Iowa; E. C. Barrick, Janesville, Iowa; W. B. Loveland, Janesville, Iowa; M. W. Downing & Brother, Waukesha, Wis.; R. B. Young, Buffalo Center, Iowa; E. Diercks, Waterloo, Iowa; Reed & Platt, Hopkinton, Iowa; McMay Brothers, Waterloo, Iowa; E. C. Schroeder, Moorhead, Minn.; William Galloway, Waterloo, Iowa. The decisions were made by W. J. Gillette, Rosendale, Wis., and were as follows:

Bull 3 Years or Over (9 shown)—1st Haeger on Paul Calamo Korndyke; 2d Copestake on Sir Jessie Fobes Piebe Burke; 3d McMay Bros. on Aaggie Cornucopia Johanna Lad 7th; 4th Iowana Farms on Ollie Johanna Sir Fayne; 5th Nelson on Hengerveld King.

Bull 2 Years and Under 3 (5 shown)—1st Iowana Farms on Oak De Kol Illie Homestead; 2d Schroeder on Sir Korndyke Hengerveld De Kol; 3d Haeger on Harvest Cornucopia; 4th Downing on Brookvale Ormsby Wartena; 5th McMay Bros. on King Mead De Kol.

Bull 1 Year and Under 2 (7 shown)—1st Young on Buffalo Pieter Doebe; 2d Downing on Downing Pontiac Butterman; 3d Haeger on Paul Pontiac Beets; 4th Galloway on King Segis Pontiac Combination; 5th Barrick on Creston Colantha Fearless Lad.

Bull 6 Months and Under 12 (13 shown)—1st Schroeder on Sir Korndyke Fytje; 2d Iowana Farms on Iowana Sir Ollie; 3d Haeger on King Bessie of Rock; 4th Iowana Farms on Iowana Parthenea Sir Korndyke; 5th Loveland.

Calf Under 6 Months (18 shown)—1st McMay Bros. on a calf not named; 2d Young on Buffalo Le Roy Doede; 3d Nelson on Hengerveld Walker; 4th Schroeder on Sir Korndyke Shadeland; 5th Schroeder on Sir Pietertje Johanna Ormsby.

Bull Under 6 Months (18 shown)—1st McMay Bros.; 2d Young on Buffalo Le Roy Doede; 3d Nelson on Hengerveld Walker; 4th Schroeder on Sir Korndyke Shadeland; 5th Schroeder on Sir Pietertje Johanna Ormsby.

Cow 5 Years or Over (15 shown)—1st Haeger on Aconeth Lady; 2d White on Lady Ona Hijlaard; 3d Haeger on Nancy Spafford; 4th Schroeder on Springbrook Bess Burke; 5th McMay Bros. on Geneseo Beauty Alcartra.

Cow 4 Years and Under 5 (6 shown)—1st Nelson on Chloe Artis Jewel; 2d Haeger on Crescent Beauty Butter Maid; 3d Iowana Farms on Adirondac Ola Korndyke; 4th Downing on Vashti Korndyke; 5th Loveland on DeVries Edwina.

Cow 3 years and Under 4 (9 shown)—1st Nelson on Jewel Abbekerk Gerben; 2d Haeger on Evelina Calamo Korndyke; 3d Nelson on Colantha Johanna; 4th Iowana Farms on Star Watson Mooie; 5th Haeger on Daisy Korndyke Cothilde.

Heifer 2 Years and Under 3 (17 shown)—1st McMay Bros. on Geneseo Belle Polkadot 3d; 2d McMay Bros. on Geneseo Beauty Korndyke; 3d Schroeder on Queen Piebe Mercede; 4th Iowana

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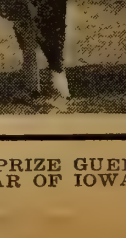

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FOX BROS.' FIRST-PRIZE GUERNSEY COW, ESSIE JEWELER.

MARSH'S FIRST-PRIZE GUERNSEY BULL, BOPEEP'S MAR OF IOWA.

Farms on Fryslan Waldorf; 5th Iowana Farms on Johanna Fayne Pauline.

Heifer 18 Months and Under 2 Years (14 shown)—1st Nelson on Groveland Johanna Inka; 2d Barrick on Nellie Vale De Kol Lady; 3d Schroeder on Buffalo Maid 2d; 4th Schroeder on Burke Spring Brook Ormsby; 5th Haeger on Trilby Calamo De Kol.

Heifer 12 Months and Under 18 (13 shown)—1st White on Groveland Inka Netherland; 2d Schroeder on Burke Mercedes Ormsby; 3d Schroeder on Lulu Pietertje Ormsby; 4th White on Groveland Spofford Hijlaard; 5th Haeger on Lily Netherland Hengerveld.

Heifer 6 Months and Under 12 (27 shown)—1st Schroeder on Queeen Mercedes Ormsby; 2d Nelson on Lairee Walker; 3d Iowana Farms on Iowana Jewel Lady Wayne; 4th Downing on Downing Pontiac Dairy Maid; 5th McMay Bros. on Pledge Fayne De Kol 2d.

Heifer Under 6 Months (16 shown)—1st Iowana Farms on Iowana Countess Jessie; 2d Iowana Farms on Iowana Lady Rouble; 3d White on Groveland Pauline Pontiac; 4th White on Groveland Inka Concordia; 5th Haeger on Joy Burke Hengerveld.

Cow having official yearly record begun at 5 years or over (2 shown)—1st White on Lady Ona Hijlaard; 2d Schroeder.

Cow having official yearly record begun at 2 years under 5 ((5 shown)—1st McMay Bros. on Geneseo Beauty Alcartra; 2d McMay Bros. on Filled De Kol; 3d Schroeder; 4th Downing on Vashti Korndyke; 5th Downing on Oak Grove Thelma.

Exhibitor's Herd (8 shown)—1st Haeger; 2d McMay; 3d Nelson; 4th White; 5th Iowana Farms.

Young Herd (5 shown)—1st Schroeder; 2d Nelson; 3d Downing; 4th Haeger; 5th White.

Calf Herd (8 shown)—1st Schroeder; 2d Iowana Farms; 3d Nelson; 4th McMay Bros.; 5th Haeger.

Special trophy offered by R. B. Young, Buffalo Center, Iowa, on one bull and two heifer calves all under 1 year, bred by exhibitor (5 shown)—1st Schroeder.

Get of Sire (10 shown)—1st McMay; 2d Schroeder; 3d White; 4th Nelson; 5th Iowana Farms.

Produce of Cow (10 shown)—1st Iowana Farms; 2d McMay Bros; 3d Schroeder; 4th Downing; 5th Schroeder.

Advanced Registry Cow, to be shown with two of her progeny (4 shown)—1st White; 2d Schroeder; 3d McMay; 4th Nelson.

Dairy Herd of four cows in milk (6 shown)—1st Haeger; 2d Nelson; 3d Schroedere; 4th McMay; 5th Iowana Farms.

Senior Champion Bull—Haeger on Paul Calamo Korndyke.

Junior Champion Bull—Young on Buffalo Pieter Doede.

Grand Champion Bull—Haeger on Paul Calamo Korndyke.

Senior Champion Cow—Haeger on Aconeth Lady.

Junior Champion Cow—Nelson on Groveland Johanna Inka.

Grand Champion Cow—Haeger on Aconeth Lady.

Cow With Official Record—White on Lady Ona Hijlaard.

AYRSHIRES.

Seventy-Five cattle were shown by R. R. Ness, Howick, Quebec, Canada; Adam Seitz, Waukesha, Wis.; William Galloway, Waterloo, Iowa; W. P. Schanck, Avon, N. Y. Judge W. W. Ballantyne, Stanford, Ontario, Canada, officiated and placed ribbons as follows.

Bull 3 Years or Over (4 shown)—1st Ness on Hobsland Masterpiece; 2d Seitz on Imp. Bargenoch Gay Cavalier; 3d Schanck on Likely King of Avon; 4th Galloway on Auchenbrain Good Gift.

Bull 2 Years and Under 3 (2 shown)—1st Ness on Burnside Lucky Cavalier; 2d Schanck on Victor Hugo of Avon.

Bull 1 Year and Under 2 (4 shown)—1st Ness on Holehouse Wanderer; 2d Seitz on Bargenoch Rising Star; 3d Galloway on Edgewood Spencer; 4th Schanck on King of Avon.

Bull 6 Months and Under 12 (6 shown)—1st Schanck on King Columbus of Avon; 2d Seitz on Cavalier's Leader of Fashion; 3d Ness on Prince Arthur of Humeshaugh; 4th Galloway on Arbuthnot; 5th Seitz on Cavalier's Fond Memory.

Bull Under 6 Months (4 shown)—1st Ness on Burnside Ben; 2d Seitz on Cavalier's Fashion Plate; 3d Schanck; 4th Schanck.

Cow 5 Years or Over (11 shown)—1st Ness on Auchenbrain Fanny 9th; 2d Seitz on Imp. Kilnford Bell 3d; 3d Ness on Finlayston Maggie 3d; 4th Seitz on Vilo Pender; 5th Seitz on Imp. Barboigh Maggie 10th.

Cow 4 Years and Under 5 (5 shown)—1st Ness on Benchan Spottie; 2d Schanck on Vena Avon 2d; 3d Ness on Hobsland Pansy; 4th Seitz on Imp. Lady Mary Stewart 2d; 5th Seitz on Imp. Hillhouse Maud 2d.

Cow 3 Years and Under 4 (6 shown)—1st Seitz on Imp. Beuchan Dorothy; 2d Schanck; 3d Ness on Burnside Maggie Finlayston; 4th Seitz on Imp. Tower Tulip; 5th Ness on Burnside Denty.

Heifer 2 Years and Under 3 (10 shown)—1st Ness on Hobsland Barbara; 2d Ness on Burnside Maggie Finlayston 3d; 3d Seitz on Imp. Harpulard Pansy; 4th Schanck on Voca 4th of Avon; 5th Schanck on Nona's Lady of Avon.

Heifer 18 Months and Under 24 (5 shown)—1st Ness on Burnside Dina; 2d Schanck on Maude Douglas 3d of Avon; 3d Seitz on Bargenoch Queen; 4th Seitz on Bargenoch Silver Pet; 5th Ness on Burnside Adalia.

Heifer 12 Months and Under 18 (3 shown)—1st Ness on Holehouse Randy 9th; 2d Seitz on Bargenoch Lizzie Lindsay; 3d Schanck on Gladonia 2d of Avon.

Heifer 6 Months and Under 12 (7 shown)—1st Seitz on Cavalier's Violet; 2d Ness on Burnside Ina; 3d Schanck; 4th Seitz on Cavalier's Bluebell; 5th Galloway.

Heifer Under 6 Months (6 shown)—1st Ness on Burnside Bloomer 2d; 2d Seitz on Cavalier's Daisy; 3d Schanck; 4th Schanck; 5th Ness on Burnside Silver Bell 10th.

Cow having official yearly record begun at 5 years or over (1 shown)—1st Seitz on Vilo Pender.

Cow having official yearly record begun at 2 years, under 5 (4 shown)—1st Seitz on Imp Beuchan Dorothy; 2d Ness on Burnside Maggie Finlayston 2d; 3d Seitz on Imp. Hillhouse Maud; 4th Ness on Finlayston Maggie 3d.

Exhibitor's Herd (4 shown)—1st Ness; 2d Seitz; 3d Schanck; 4th Schanck.

Young Herd (3 shown)—1st Ness; 2d Seitz; 3d Schanck.

Calf Herd (3 shown)—1st Seitz; 2d Ness; 3d Schanck.

Get of Sire (6 shown)—1st Seitz; 2d Ness; 3d Schanck; 4th Seitz; 5th Ness.

Produce of Cow (6 shown)—1st Seitz; 2d Schanck; 3d Seitz; 4th Schanck; 5th Seitz.

Advanced Registry Cow, to be shown with two of her progeny (2 shown)—1st Seitz; 2d Ness.

Dairy Herd of four cows in milk (4 shown)—1st Ness; 2d Seitz; 3d Seitz; 4th Schanck.

Ayrshire Breeders' Association Special Silver Cup for herd of four cows in milk 5 years or over—1st Seitz.

Senior Champion Bull—Ness on Hobsland Masterpiece.

Junior Champion Bull—Ness on Holehouse Wanderer.

Grand Champion Bull—Ness on Hobsland Masterpiece.

Senior Champion Cow—Ness on Auchenbrain Fanny 9th.

Junior Champion Cow—Ness on Holehouse Randy 9th.

Grand Champion Cow—Ness on Holehouse Randy 9th.

Cow With Official Record—Seitz on Imp. Beuchan Dorothy.

THIS IS SEED CORN MONTH.

To the Editor of The Homestead:

Probably there never was a time when good seed corn was as scarce as it is this year. Every man should make an especial effort to select the best of this year's crop; otherwise he will be forced to buy bottom-grown seed, which, in many cases, has given very poor results on prairie land. The Missouri Experiment Station has found by careful observation and experiment that for best results, seed should be selected from the field during October. It takes only one dozen good ears of seed to plant an acre. It is cheaper to take one day's time and select seed for the entire crop than to later pay an exorbitant price for seed. One dead ear out of every twelve would cut the yield of a fifty-bushel crop over four bushels per acre. The wise man will go through his corn some time within the next three weeks, husk out twice as much corn as will really be needed for seed next spring, and hang this corn up in a dry, well-ventilated place where it will be safe from mice and rats. In case there is no corn standing in the field, he will pick out the best seed ears while shucking out shock corn and hang these ears up for seed.

T. R. Douglass.

Approximately $250,000 will be spent by the American Society of Equity to establish a co-operative packing plant in the city of La Crosse, according to the statement of J. R. Carnahan, of Eau Claire, vice-president and organizer for the state of Wisconsin. Official confirmation of the plan will be made at the state convention to be held the first week in December. The La Crosse plant will be the first of a system of plants to be built by the society which proposes to own and operate packing houses much as co-operative creameries have ben conducted.

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There are millions of acres of fertile land awaiting the plow to convert them into the finest grain land in the world. With only a small part of its vast area under cultivation, Montana has become, both for quality and quantity, the greatest grain producing state in the Union. United States government reports show that Wheat, Oats, Barley, Rye and other grains run ***double the yield per acre*** that of any middle western state—on land costing about one-third that of middle west land.

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Cease being a renter. Take your savings and buy a farm in Montana. Land prices are low and you are assured of the best of climate, richest soil and splendid crops. Low fare round-trip homeseekers' excursion tickets are on sale on certain dates every month, via the

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DO you know that wherever you live *you* can now buy coal straight from the mines at wholesale prices, the prices your *dealer* has to pay?

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It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

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This money-saving plan is too important to be set aside. The amount of waste money you have been paying your dealer belongs in your own pocket. Keep it there. Right now take the first step. It obligates you to nothing Just fill out and mail us the coupon in this advertisement. The prices we quote will positively surprise you. But do it now before the matter slips your mind. Address

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Gentlemen:—Am interested in your proposition of better coal for less money. Please quote prices, freight included, delivered at my nearest railway station, on the following coals:

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No. of Cars.....Kind of Coal.....

Name.....

Nearest R. R. Station.....Name of Railroad.....

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NEWS OF THE SALE RING

McMaster's Short-horn Sale.

One of the most successful Short-horn sales of the year was that of C. J. McMaster at Altona, Ill., October 15th. The Attendance was very large, the public having been apprised that Mr. McMaster would present a very choice lot of cattle, and the result of the sale gave ample evidence that those present appreciated the offering at its value. No better lot of Short-horns, both as regards breeding and individual merit, has passed through a public sale in a long time. Mr. McMaster is building up one of the great Short-horn herds of the country and the cattle he offered in his 1913 sale were a credit to him in every way. The wide distribution of the offering over several states gave evidence that Mr. McMaster has his reputation firmly established, and emphasized the fact that the buying public wants desirable specimens of the Short-horn breed. There were no extreme prices, the top being $810, at which figure Thos. Stanton, Wheaton, Ill., secured Sultana F., a five-year-old daughter of the champion, Whitehall Sultan, with a fine heifer calf at foot. Mr. Stanton also purchased the show heifer, Rosewood 18th, by Masterpiece, at $725. Excellent value was secured by George Allen & Son, Lexington, Neb., in the imported cow, Sunny Blink 8th, with a bull calf at foot, at $415, and H. G. Bowers, Elmwood, Ill., made an excellent selection in the cow, Fairplay 8th, by Villager, at $435. The Marr Clara cow, Clara A., with a roan heifer calf at foot, went to Carpenter & Ross, Mansfield, Ohio, at $610. The top for bulls was $500, at which price J. E. Goodenough, Maquoketa, Iowa, secured the yearling, Glenview Dale 4th, by Browndale Sultan, and the same price was paid by Morrow Whitaker, Toulon, Ill., for Glenview Dale 5th, a January calf by Mr. McMaster's fine herd bull, Silver Dale. Col. Carey M. Jones conducted the sale in an exceptionally high-class manner, and was ably assisted by Col. Fred Reppert. Mr. McMaster carried out every detail in the reliable manner characteristic of all transactions at Glen View farm and the following detailed list of sales tells the story of one of the most successful short-horn sales of the year:

FEMALES.

Imp. Sunny Blink 8th and b. c, calved 1908; George Allen & Son, Lexington, Neb.	$415
Butterfly Lady 5th and b. c., calved 1906; W. M. Oakes, Laura, Ill.	265
Sultana F. and c. c., calved 1908; Thos. Stanton, Wheaton, Ill.	810
Clara A. and c. c., calved 1906; Carpenter & Ross, Mansfield, Ohio	610
Cumberland's Bouquet and b. c., calved 1908; Eldon McCowan, Elmwood, Ill.	415
Rosalie of Chazy, calved 1909; G. N. Emeck & Son, Elmwood, Ill.	215
Mint Drop 19th, calved 1907; May & Otis, Willoughby, Ohio	175
Stella 5th, calved 1905; George Allen & Son	300
Pleasant Ridge Gladness and c. c., calved 1906; Thos. Stanton	440
Goldie of Anoka, calved 1909; S. B. Brown, Altona, Ill.	180
Viola's Blossom 5th, calved 1907; E. R. Silliman, Colo, Iowa	205
Sayer's Secret, calved 1909; W. C. Thompson, Plano, Ill.	440
Fairplay 8th, calved 1910; H. G. Bowers, Elmwood, Ill.	435
Helen 27th, calved 1909; J. O. Blakeslee, Rapatee, Ill.	200
Augusta of Ginview, calved 1911; Thos. Stanton	530
Augusta of Glenview 2d, calved 1912; C. E. Tilton, Maquoketa, Ia.	325
Juno of Woodhill 6th, calved 1911; J. P. Petrie, New Windsor, Ill.	250
Nonpareil Princess, calved 1912; J. A. Kilgour, Sterling, Ill.	200
Rosewood 38th, calved 1913; Thos. Stanton	725
Butterfly Queen 3d, calved 1912; J. P. Petrie	300
Violet's Lady 14th, calved 1912; G. A. Heath, Annawan, Ill.	285
Violet Lady 15th, calved 1912; Robt. Fairlon, Neponset, Ill.	170
Red Lady 39th, calved 1912; G. A. Heath	200
Northern Beauty, calved 1912; A. C. Dixon, Cambridge, Ill.	165
Lady Thorncliffe, calved 1912; John Anderson, Altona, Ill.	200
Inwood Lass and b. c., calved 1906; Galbraith & Sutliff, Gladstone, Ill.	300
Mina of Glenview 2d, calved 1912; G. A. Heath	275

BULLS.

Glenview Dale 3d, calved 1912; Chas. Weir, Rio, Ill.	400
Diamond Dale, calved 1912; A. C. Dixon	330
Glenview Dale 4th, calved 1912; J. E. Goodenough, Maquoketa, Iowa	500
Glenview Dale 5th, calved 1913; Morrow Whitaker, Toulon, Ill.	500
Glenview Dale 6th; calved 1913; Fred Price, Alexis, Ill.	250

SUMMARY.

27 females	$ 9,030; average	$334
5 bulls	1,980; average	396
32 head	11,010; average	344

The American Royal Hereford Sale.

The sale of Hereford cattle held at Kansas City on October 9th, was the only public sale of breeding cattle held during the week of the American Royal. The offering was up to the standard with probably one of the best offerings of bulls seen in a Roal sale for some time. Buyers from a wide territory contended in the bidding for the better lots and the bulls sold at very satisfactory prices. The top of the sale was $1,975, paid by O. Harris & Sons, Harris, Mo., for Vernet Prince, the senior second prize bull calf of the show. This calf had many friends among the breeders during the show who predicted he would be first in class. He was not consigned to the sale and W. J. Davis, Jackson, Miss., his owner, consented to sell him in the sale, as several breeders wanted a chance at him. J. M. Curtis, Kansas City, Mo., and W. T. McCray, Kentland, Ind., were contending bidders. The general average of $384.70 shows the healthy condition of the pure-bred cattle business and it is to be regretted that other breeds did not fill their sales with as good a class of cattle as were contributed by the Hereford breeders. The sale was conducted by Colonel Reppert. Following is a list of sales and the averages:

BULLS.

Proctor Onward, calved Jan. 5, 1912; J. B. Burkett, Hereford, Tex.	$ 750
Domino Lad, calved May 8, 1912; T. N. Croak & Bro., Strasburg, Mo.	200
Tempter Lad, calved Feb. 25, 1912; O. S. Gibbons & Son, Atlantic, Iowa	175
Wood Donald, calved Sept. 15, 1912; T. N. Croak	165
Perfect Donald, calved Oct. 6, 1911; A. Spooner & Son, Mondamin, Iowa	700
Beau Perfection, calved Dec. 6, 1910; F. L. Brown, Silvan Grove, Kan.	530
Beau Perfection 25th; E. F. Gallegos, Gallegos, N. M.	500
Maurice, calved, Mar. 29, 1912; D. R. Whitaker, Cheyenne, Wyo.	280
Vain Lad, calved Oct. 14, 1912; B. B. Miller, Mt. Ulla, N. C.	310
Onward Lad, calved Feb. 14, 1912; D. R. Whitaker	305
Rex Onward 16th, calved Oct. 16, 1911; S. P. Peterson, Leigh, Neb.	550
Beau Boston, calved June 29, 1911; C. S. West, Belton, Mo.	415
British Beacon, calved Dec. 1, 1911; J. B. Gillett, Marfa, Tex.	460
Real Fairfax, calved May 17, 1912; E. F. Gallegos	565
Vernet Prince 4th, O. Harris & Sons, Harris, Mo.	1,975
Dandy Andrew 34th, calved Aug. 25, 1911; D. R. Whitaker	300
Shamrock, calved Jan. 5, 1910; John Gosling, Kansas City, Mo.	505
Prince Rupert 52d, calved Dec. 26, 1911; J. H. Keith, Coffeyville, Kan.	560
Prince Rupert 53d, calved Feb. 18, 1912; O. W. Healy, Mapleton, Minn.	355
Beau Golden, calved Aug. 8, 1912; D. R. Whitaker	230
Maple's Lad, calved Oct. 7, 1912; D. R. Whitaker	275
Maple's Lad 42d, calved, Oct. 7, 1912; Fred Lind, Clark, Neb.	330
Beau Prince 12th, calved April 25, 1912; R. H. Merrill, Greenfield, Mo.	240
Beau Prince 15th, calved May 8, 1912; D. R. Whitaker	205
Donald Lad 19th, calved Sept. 5, 1911; E. Valdez, Springer, N. M.	400
Graceful Lad 3d, calved Oct. 3, 1910; W. J. Davis, Jackson, Miss.	500
Prinzewinner 2d, substitute; Est. Wm. Mac Brown, Fall River, Kan.	975

FEMALES.

Belle Perfection, calved Oct. 18, Ind.	430
Martha, calved Jan. 9, 1912; W. F. Duvall, Butler, Mo.	200
Fashion, calved October 11, 1911; C. A. Meyer, Bellvue, Iowa	350
Nedra, calved Aug. 12, 1911; D. E. Powell, Windsor, Mo.	205
Odessa Princess 3d, calved Nov. 18, 1911; J. M. Powell, Leeton, Mo.	215
Odessa Princess 4th, calved Nov. 26, 1911; W. T. McCray	160
Queen Rebecca, calved April 23, 1911; C. A. Meyer	350
Iva 3d, calved Jan. 9, 1909; A. Spooner & Son	340
Onward Lassie 3d, calved Feb. 12, 1909; C. A. Meyer	210
Mabelle 30th, calved Mar. 31, 1910; E. E. Wall & Son	280
Petrolea 14th, calved Mar. 21, 1911; J. M. Powell	215
Eva, calved Nov. 24, 1911; T. N. Croak & Bro.	220
Goodness 2d, calved Oct. 20, 1908;	

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A. Spooner & Son	255
Miss Dandy 4th, calved Jan. 16, 1912; W. T. McCray	265
Myrtle, calved Jan. 25, 1904; W. N. Collier, Fulton, Mo.	200
Idleweiss, calved Oct. 7, 1911; B. B. Miller	220
Lassamine, calved April 1, 1911; Wm. F. Duvall	290
Maple Lass 25th, calved Oct. 20, 1911; C. A. Meyer	315
Blanca, calved May 29, 1904; S. P. Peterson	200
Beau's Dolly, substitute; J. H. Keith	355

SUMMARY.

27 bulls	$12,805; average	$474.25
20 females	5,275; average	263.75
47 head	18,080; average	384.70

Stanton's Short-horn Sale.

The offering of Short-horn cattle at Sittyton Grove Stock Farm, Wheaton, Ill., Tuesday, October 14th, by Thos. Stanton drew a good crowd. Mr. Stanton had cataloged an attractive lot of cattle, both Scotch and Scotch topped, among the latter being some extra fine cows, and the offering was taken on a good range of values. In addition to Mr. Stanton's cattle there were listed fifteen head of finely-bred Scotch animals from the herd of Smith & Heisserer, Oran, Mo., and from this list buyers secured some excellent values, several going below their actual value. Like all sales at Sittyton Grove, this one was conducted in an exceedingly satisfactory manner. Prices ruled on a conservative basis, the top being $485, paid by F. W. Harding, Waukesha, Wis., for the Smith & Heisserer Augusta cow, Augusta 115th, with a a heifer calf at foot, at which figure she was a decidedly attractive proposition. Colonels Woods, Jones and Reppert were the auctioneers, and the following is a detailed list of sales:

FEMALES.

Moss Rose, calved 1908; E. Cosgriff & Son, Clarence, Iowa	$245
Jilt Princess, calved 1907; C. J. McMaster, Altona, Ill.	265
Augustian's Pearl and b. c., calved 1905; George Kerr, Chana, Ill.	225
Averne 14th and b. c., calved 1908; John M. Bay, Aledo, Ill.	250
Lavender Rose, calved 1911; May Stryker, Plainfield, Ill.	230
Bella, calved 1912; J. W. Evans & Son, Woodstock, Ill.	300
Rosa Hope 20th, calved 1911; May Stryker	205
Annica, calved 1911; A. S. Loveland, Mt. Pleasant, Iowa	190
Lawndale Wild Eyes 17th, calved 1908; May Stryker	200
Scotch Duchess 17th and c. c, calved 1911; T. H. Seaworth, Chana, Ill.	155
Jeannie and c. c., calved 1909; May & Otis, Willoughby, Ohio	265
Lawndale Mary 7th, calved 1907; Chas. Steward, Plano, Ill.	130
Lawndale Wild Eyes 19th, calved 1908; J. H. Clayton, Yorkville, Ill.	125
Lawndale Wild Eyes 20th, calved 1908; May & Otis	140
Lawndale Wild Eyes 21st and b. c., calved 1908; Lewis Turrow, Yorkville, Ill.	180
Duchess of Lawndale 31st, calved 1904; May & Otis	260
Lawndale Sharon 10th, calved 1908; Robt. Crane, Baltimore, Md.	155
Lawndale Duchess 45 and b. c., calved 1908; J. P. Greek, DeKalb, Ill.	170
Heifer calf, calved 1912; Robt. Crane	110
Scotch Duchess 15th and c. c., calved 1908; May & Otis	180
Empress of Oxford 8th and c. c., calved 1909; May Stryker	180
Scotch Duchess 12th and c. c., calved 1908; F. W. Harding, Waukesha, Wis.	240
Scotch Duchess 14th and c. c., calved 1908; May Stryker	200
Lawndale Duchess 49th, calved 1908; May Stryker	180
Lawndale May 15th, calved 1911; Georg Kerr	175
Sittyton Royal, calved 1912; May Stryker	200
Sittyton Missi 5th, calved 1912; George Kerr	240
Villa Grove Beauty, calved 1905; J. W. McDermott, Kahoka, Mo.	220
Shadewell Golddrop and c. c., calved 1906; J. E. McCormick, Farmington, Mo.	340
Missie Valentine and c. c., calved 1904; George Kerr	280
Augusta 115th and c. c., calved 1909; F. W. Harding	485
Roan Beauty and c. c., calved 1910; J. E. McCormick	225
Golden Fancy and c. c., calved 1909; A. S. Loveland	110
Lady Martha and c. c., calved 1908; Lanaghan Bros., Charlotte, Iowa	260
Sweet Violet and c. c., calved 1907; J. E. McCormick	290
Rose of Autumn 24th, calved 1912; Herr Bros. & Reynolds, Lodi, Wis.	100
Inde Duchess, calved 1911; May Stryker	150
Independent Roan Duchess, calved 1911; May Stryker	150
Inde Red Duchess, calved 1911; Robt. Crane	125
Inverderry Wild Eyes, calved 1910; May Stryker	130
Independent Roan Lady, calved 1911; Robt. Crane	145
Lawndale Mary 18th, calved 1911; May Stryker	150
Independent Lady, calved 1911; May Stryker	150
Independent Mary, calved 1911; T. H. Seaworth	125

BULLS.

Violet's Sultan, calved 1912; Lanaghan Bros.	105
Max, calved 1912; Lanaghan Bros.	105
Southern Goods, calved 1913; J. H. McCormick	110
Scottish Lad, calved 1912; F. W. Truckenbrod, Mendota, Ill.	100
Sittyton Lad, calved 1913; George L. Hay, Fox, Ill.	205
Master Lad, calved 1913; Lanaghan Bros.	105
Independent Goods, calved 1911; J. H. Clayton	165
Bull calf, calved 1912; J. W. McDermott	115

SUMMARY.

45 females	$8,920; average	$199
8 bulls	1,010; average	126
53 head	9,930; average	187

Botts' Short-horn Sale.

A large local crowd, with a number of buyers from a distance, attended the Short-horn sale of R. W. Botts' at Plymouth, Ill., Thursday, October 16th. It was practically a dispersion on the part of Mr. Botts, who has been actively engaged in breeding Short-horns for a quarter of a century, and the public was presented a well-bred lot of cattle in good sale condition. In addition to the Botts cattle there were nine head consigned by W. B. Rigg, Mt. Sterling, Ill. Values ruled at a very even range, B. W. Aylor, Grandin, N. D., and S. F. Huston, Carthage, Ill., were important factors in the success of the sale, both gentlemen being liberal bidders and buyers. Col. Carey M. Jones was the auctioneer, and did an excellent day's work, assisted in the ring by Colonels Johnson and Weir. The following is a detailed list of sales:

FEMALES.

5th Elms Azelia, calved 1910; B. W. Aylor, Grandin, N. D.	$230
6th Elms Azelia, calved 1910; B. W. Aylor	230
Nonpareil Countess, calved 1909; S. F. Huston, Carthage, Ill.	105
Princess Minnie and b. c., calved 1906; J. W. Henry, Colona, Ill.	180
5th Elms Queen, calved 1907; B. C. McClanahan, Lafayette, Ill.	170
3d Elms Butterfly, calved 1912; B. W. Aylor	175
Elms Maid, calved 1912; B. W. Aylor	130
Rosa Gem 9th, calved 1911; Lewis Stookey, Harristown, Ill.	160
Golden Flower and b. c., calved 1909; B. W. Aylor	125
Lavender Flower and c. c., calved 1910; B. W. Aylor	155
Lady Lavender, calved 1906; Robt. Failon, Neponset, Ill.	175
Village Pride 2d and c. c., calved 1902; S. F. Huston	200
Golden Rose and twin c. c., calved 1911; S. F. Huston	200
Violet Lady, calved 1910; B. W. Aylor	175
Mary's Secret, calved 1910; B. W. Aylor	145
Roan Minnie, calved 1907; B. W. Aylor	165
Azelia 3d, calved 1902; C. F. Nelson, Blandinsville, Ill.	150
Elms Mary Ann and b. c., calved 1911; B. W. Aylor	160
Elms Azelia, calved 1904; B. W. Aylor	100
Birdie and b. c., calved 1910; W. F. Bean, Winchester, Ill.	120
Peach Bud, calved 1909; S. F. Huston	135
Red Minnie and b. c., calved 1911; M. S. Zachary, Jacksonville, Ill.	130
Emma 26th, calved 1906; S. F. Huston	150
Violet Lady 2d, calved 1912; Lewis Stookey	100
7th Elms Azelia, calved 1913; B. W. Aylor	105
2d Elms Mary Ann, calved 1912; B. W. Aylor	140
Golden Poppy 3d and b. c., calved 1905; I. M. McCabe, Plymouth, Ill.	135
14th Princess J., calved 1912; B. W. Aylor	140
8th Princess J., calved 1905; S. F. Huston	140
Golden Poppy 4th and c. c., calved 1909; J. M. McCabe	130
Belle Phoenix 7th, calved 1910; S. F. Huston	105
Bell Phoenix 6th and b. c., calved 1901; M. S. Zachary	100

BULLS.

Village Magnet, calved 1910; B. W. Aylor	150
Progress, calved 1911; B. W. Aylor	185
Elms Diamond, calved 1912; B. W. Aylor	135
Lavender Gloster, calved 1912; Elmendorf Farm, Lexington, Ky.	150
Roan Champion, calved 1911; Elmer Gibson, Burnside, Ill.	145
Even Dhu, calved 1912; Bentley & Brock, Indianola, Iowa	165
Ronald, calved 1912; S. E. Putnam, Mt. Sterling, Ill.	140
Lord Lorn, calved 1912; Elmendorf Farm	140
Enson Doon, calved 1912; Ancelet & Thompson, Bosco, Ill.	110
Margrave, calved 1913; Sharow Bros., Golden, Ill.	145
Reynand, calved 1913; Elmendorf Farm	120
Boccacio, calved 1913; Hedgecock Bros., Plymouth, Ill.	115

SUMMARY.

32 females	$4,765; average	$149
14 bulls	1,875; average	134
46 head	6.640; average	144

Lockridge Short-horn Sale.

The sale of Short-horn cattle at Chicago, October 13th, by S. F. Lockridge, Greencastle, Ind., was well attended and the cattle presented met with a good appreciation. Mr. Lockridge is one of the veteran Short-horn men of the country, and he offered to the buyer a good lot of cattle, richly bred and presented in a satisfactory condition. There were no extreme prices paid, but values ranged at a lead that made the sale a profitable one to Mr. Lockridge and yet left the buyer a very satisfactory margin. With but three exceptions every animal in the sale was bred by Mr. Lockridge and reflected credit on him and his work as a breeder. It was a clean cut sale in every way and was conducted in the most satisfactory manner throughout. The cattle were well distributed, going to Iowa, Illinois and Indiana buyers. Colonels Woods and Jones were the auctioneers, and the following is a report of the sale in detail:

FEMALES.

Goya Lily & c. c., calved 1905; W. A. Wickersham, Melbourne, Ia.	$300
Gorse and b. c., calved 1908; Lanaghan Bros., Charlotte, Iowa	235
Golden Dawn and b. c., calved 1908; W. F. Matern, Wesley, Iowa	340
Golden Ray, calved 1908; James Stewart, Chicago	135
Golden Plume, calved 1908; C. J. McMasters, Altona, Ill.	400
Gloxina, calved 1910; J. F. Prather, Williamsville, Ill.	260
Goldleaf, calved 1911; L. F. Boyle, Hennepin, Ill.	150
Gardenia, calved 1911; E. W. Monnier, Elizabeth, Ill.	155
Sunflower 10th, calved 1903; Lanaghan Bros.	240
Sunflower 11th, calved 1904; W. A. Wickersham	220
Sunflower 16th and c. c., calved 1908; Lanaghan Bros.	230
Sunflower 19th, calved 1910; W. F. Matern	125
Sunflower 21st and c. c., calved 1910; E. W. Monnier	185
Sunflower 22d, calved 1911; J. F. Prather	225
Sunflower 23d, calved 1911; J. M. Forbes & Son, Henry, Ill.	190
Sunflower 24th, calved 1911; P. J. Henning, Belvidere, Ill.	175
Sunflower 25th, calved 1911; P. J. Henning	175
Sunflower 26th, calved 1912; J. F. Prather	125
Miss Victoria Gloster and b. c., calved 1912; W. A. Wickersham	200
Maid of Gloster, calved 1909; Lanaghan Bros.	250
3d Maid of Gloster, calved 1911; J. W. King, Kings, Ill.	215
4th Maid of Gloster, calved 1911; W. F. Matern	140
Lucile and b. c., calved 1905; Lanaghan Bros.	300
Larkspur, calved 1911; J. W. King	170
Queen Esther and c. c., calved 1908; James Brown, Chicago	165
Queen Ruth, calved 1911; E. W. Monnier	125
Grand Duchess and b. c., calved 1905; J. W. Thomason, Louisville, Ill.	165
Grand Duchess 2d, calved 1907; James Stewart	150
Grand Duchess 4th and c. c., calved 1910; James Brown	190
Grand Duchess 5th, calved 1911; L. F. Boyle	130
Village Charm, calved 1906; J. W. Thomason	180
Village Pride, calved 1911; Lanaghan Bros.	130

BULLS.

Shamrock, calved 1910; M. H. Brown, Springfield, Ill.	380
Regal Scot, calved 1911; W. F. Matern	225
Goya Chief, calved 1912; Geo. McDonald, Covington, Ind.	200
Golden Eagle, calved 1912; M. H. Brown	165
Game Warden, calved 1913; James	

"Dry as a bone" in a Fish Brand Pommel Slicker

Keeps your saddle dry and smooth because the front and back extend to cover every bit of leather. The wide skirts button about the legs to make protection complete.

$3.50 Everywhere

SATISFACTION GUARANTEED

TOWER'S FISH BRAND — Identified always by this mark — 1013

A. J. Tower Co. BOSTON

Tower Canadian Limited Toronto

CAGWIN'S Husker's Liniment

MAKES HUSKING EASY

The great demand for this liniment is the result of its unquestioned superiority over all preparations sold for sore hands, rough skin, lame wrists and stiff joints. If you want the best and most reliable, insist on Cagwin's Husker's Liniment.

Sold in 25c, 50c, and $1.00 bottles. The $1.00 size contains six times as much as the 25c bottle. If your druggist can't supply you, we will send you a bottle prepaid on receipt of the price.

J. E. CAGWIN - AMES, IOWA

None Genuine Without This Label.

AGENTS A BRAND NEW LIGHTER

Novel watch-shaped Lighter. Operated with one hand; gives an instantaneous light every time. No electricity, no battery, no wires, non-explosive; does away with matches. Lights your pipe, cigar, cigarette, gas jet, etc. Dandy thing for the end of your chain. Tremendous seller. Write quick for wholesale terms and prices.

G. K. BRANDT LIGHTER CO., 148 DUANE ST., N. Y.

WANTED—Several honest, industrious people to distribute Farm Literature. Salary $60 per month. Prof. J. L. Nichols, Dept. 1, Naperville, Ill.

$26,500,000.00

Hog Cholera Losses In 6 Months

E. Myers, President, E. Myers Lye Company

The above is a conservative estimate of the stupendous sum lost by American farmers during the first six months of 1912 from hog cholera alone! (Not including the **enormous loss from hog worms.**)

Now, men, let's make a mighty, united effort to put an end to this terrific slaughter—this awful waste of money. We can do it if we work together. I **know** we can do it. I have the remedy that **has been proved will prevent** hog cholera, put your weak hogs on their feed, **rid them of worms,** make them strong, hearty, fat and healthy. My remedy,

Merry War Powdered Lye,

is very simple and inexpensive to use and results have been **proven.**

In an interview, which was so important that it was given a full column on the front page of the Fort Dodge, Ia., Messenger, on November 7th, 1912, Mr. Collie Bowers, a prominent hog raiser in that section, says: "Last Fall I had lost twenty-six young pigs, when I was told to get some MERRY WAR POWDERED LYE and feed it with swill. Every one of the eight or nine pigs that were then sick recovered and I had no more trouble. This Fall the same sickness started after I began feeding this year's crop. I started the Merry War Lye treatment and the pigs got well. My brother used the Lye with his pigs and saved all the sick ones. Earnest Stromberg heard about the treatment and came to our house in the night to learn how to use it. We told him and he drove to Fort Dodge in the night and got a grocer up to get the MERRY WAR POWDERED LYE. His pigs all got well."

You can easily prevent an outbreak of cholera among your hogs, for again I say to you that MERRY WAR POWDERED LYE is the **safe preventive** of that dread swine disease. You can tell your neighbors about it just as Mr. Bowers in this interview is telling his farmer friends about it. You can in this way help to put an end to this needless and enormous money loss. Will you do it?

There Are No Substitutes

Go to your nearest dealer today and get a few cans of MERRY WAR POWDERED LYE. Don't accept an ordinary, old-fashioned lye as a substitute. To use such a lye would be but a doubtful and perhaps a **dangerous** experiment. MERRY WAR POWDERED LYE is the specially prepared lye that is **safe** to feed to hogs—that is **not** an experiment. **Insist** on the genuine.

Its wonderful merit has been **proved by experience.** Price only 10c per can **(120 feeds).** It is convenient to buy in case lots, 4 doz. cans, $4.80. If your grocer, druggist or feed dealer can't supply you, write us stating their names. We will see that you are supplied; also send you, **free,** a valuable booklet **"How to Get the Biggest Profits From Hog Raising."**

Order direct from us in case lots 4 doz. cans, $4.80, if your dealers won't supply you.

Which Kind Do You Want?

E. MYERS LYE COMPANY

Dept. 80 St. Louis, Mo.

Shetland Pony Given Away

Here is your chance to get a fine Shetland Pony. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a pony. Mail it to me with your name and address and I will tell you all about the great contest in which you can win a beautiful pony.

1500 VOTES FREE

I will also send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

Sec'y Popular Co., 152 Popular Building Des Moines, Iowa

	Stewart	200
	Grand Duke 4th, calved 1912; J. A. Hammer, Columbia City, Ind.	225
	Warnote, calved 1911; J. W. Thomason	200
	Goldmark, calved 1911; L. M. Dunlap, Covington, Ind.	200

SUMMARY.

32	females ....$6,400; average....	$200
8	bulls ..... 1,795; average....	225
40	head ..... 8,195; average....	205

The Fred Swan Sale.

One of the best Duroc Jersey sales of the fall season was made by Fred Swan, Missouri Valley, Iowa, on October 17th, when he sold forty head of boars at an average of $40.75. There were no high prices, but it was an even range and this speaks all the more for the class of hogs he was selling. The top was $100 and but three spring boars sold as low at $25. It was an offering that met the expectations of those who attended the sale. We list herewith the entire offering:

1.	Jno. Fahrenkrog, Logan, Ia.	$ 49.00
2.	I. E. Stickelman, Clarinda, Iowa	57.50
3.	B. W. Hunt, Denison, Iowa.	100.00
4.	A. H. Beebee, Beebetown, Ia.	46.00
6.	C. E. Peterson & Son, Genoa, Neb.	72.50
7.	H. E. Redinger, Logan, Ia.	51.00
8.	N. P. Jacobson, Logan, Iowa	32.00
9.	David Seedloam, Missouri Valley, Iowa	47.00
10.	John Whoolers, Logan, Iowa	32.00
11.	Albert Schwertley, Mondamin, Iowa	39.00
13.	C. M. Axtell, Honey Creek, Iowa	37 00
14.	J. P. Jaeger, Missouri Valley, Iowa	38.00
16.	John Thinker, Logan, Iowa	31.00
18.	Geo. McKinney, Logan, Ia.	37.00
19.	Bert Weed, Missouri Valley, Iowa	47.00
20.	A. E. Harter, Orson, Iowa	32.00
21.	Henry Longmeyer, Missouri Valley, Iowa	35.00
23.	E. Longfeldt, Silver City, Iowa	50.00
24.	E. J. Edwards, Alta, Iowa	50.00
25.	Leslie Walker, Rhodes, Ia.	40.00
26.	Bert Becker, Dunlap, Iowa	41.00
27.	Jas. Ward, Dunlap, Iowa	45.00
29.	W. A. Foster, Greenfield, Ia.	50.00
30.	A. R. Frazeur, Logan, Iowa	45.00
31.	Fred Longmeyer, Logan, Ia.	33.00
32.	A. R. Nicholson, Missouri Valley, Iowa	31.00
33.	H. Longmeyer	37.00
34.	E. G. Jones, Missouri Valley, Iowa	35.00
35.	C. E. White, Logan, Iowa	45.00
38.	W. A. Harlan, Logan, Iowa.	32.00
40.	Albert Chambers, Missouri Valley, Iowa	37.00
39.	A. C. Christensen, Neola, Ia.	33.00
41.	C. C. Weatherby, Missouri Valley, Iowa	31.00
42.	J. G. Harter, Missouri Valley, Iowa	49.00

Young's Chester White Sale.

M. W. Young, Ankeny, Iowa, held a public sale of Chester White hogs October 14th and disposed of fifty-eight head at an average of $27.60 each. A. B. Somerville, Monroe, Iowa, paid $60 which was the top price of the sale, for a mature sow, Margie Belle. The same buyer took several others of the highest-priced stuff. Mr. Young consigned to this sale a selection of Chester Whites which was a high-class one, but notwithstanding this fact, buyers seemed intent upon depressing prices to the last degree. There was only a fairly good crowd in attendance and bidding was of a most sluggish order. Mr. Young is to be congratulated that he had courage to carry the sale through, even when the sale of each animal was given away from 25 to 50 per cent of the value of the animal disposed of. The list of buyers includes the names of A. B. Somerville, Monroe, Iowa; G. H. Lewis, Geneseo, Ill.; C. C. Evans, South English, Iowa; Burkey & Sons, Ankeny, Iowa; M. A. Harley, Grimes, Iowa; M. Sexauer, Ankeny, Iowa; A. D. Marts, Polk, Iowa; P. Parmer, Polk, Iowa; M. Moeckley, Polk, Iowa; H. Hursh, Polk, Iowa; Chas. Ringgenborg, Crocker, Iowa; Henry Grief, Dallas Center, Iowa; N. Marts, Polk, Iowa; John Lundstrom, Polk, Iowa; H. A. Docker, Ankeny, Iowa; M. J. Cody, Gowrie, Iowa; Carl Tessdell, Huxley, Iowa; E. M. Allen, Derby, Iowa; W. I. Troup, Maxwell, Iowa. The sale was conducted by Col. C. C. Evans and Col. C. E. Luther, assisted by Chas. Howard.

Professor Thomas Shaw declares that he is positive that he has bought for J. J. Hill, of the Great Northern Ry., the best herd of dual-purpose Short-horns that ever left England. The average price for these Short-horns was $600. One of the bulls is worth $2,000.

FIELD NOTES.

Sixty Holsteins at Auction.

On Tuesday, November 11th, T. A. Gierens, Walton, Neb., will sell at his farm one-half mile west of Walton and eight miles east of Lincoln, Neb., sixty selected Holstein cows and heifers. These are of the same high-class sort that Mr. Gierens has always put up. They are the real "bred for production" kind. Part of the offering are pure breds and recorded. The remainder are for the most part pure bred but they are not recorded. Kindly watch The Homestead for further announcements and if interested, better write Mr. Gierens today for further particulars.

Farm at Public Auction.

A. G. Thurman, Blanchard, Iowa, announces that he will sell at public auction, October 30th, a farm of 150 acres. This is a good stock farm, is well equipped with three barns, two houses, water system and electric lights. Thirty acres are under cultivation, the remainder being in grass. It is in a desirable location, good land, and particularly well suited to the business of stock raising. Mr. Thurman on the same day sells Short-horn cattle and Shire and Percheron horses, as will be noted in the advertisement on page 32. Further particulars with reference to the farm may be learned by writing to A. G. Thurman, Blanchard, Iowa.

LANDS AND HOMES

Farm for Sale at Public Auction

Wednesday, October 29, 1913,

At 2:30 P. M., at the Farm Residence,

CHILLICOTHE, IOWA

Known as the Andrew Lames Farm

235 ACRE farm adjoining Chillicothe (First Station west of Ottumwa, Iowa, on the C. B. & Q. R.); close in on the south side of the town; land lies well from level to slightly rolling; good, deep, rich soil, and is particularly adapted for grass and small grain and more especially for corn.

About 150 acres of this farm has been in grass and pasture for about nine years; balance rotated in corn and small grain. This farm, for several years, has been used for feeding cattle the year around. In the summer season with the cattle on corn and grass, the pasture has become very productive.

Well improved, with a ten-room house; fully modern; hard maple floors and oak finishing throughout, upstairs and down. Splendid basement with laundry, with small gasoline engine for running churn and washer; coping of basement wall extending thirty inches above the ground. House has only been built two years, and is located about forty rods from the high-school building, and is the finest residence in town.

Good horse barn with basement under entire barn. Splendid cattle barn equipped with a new 12 H. P. gasoline engine for crushing corn, the corn being carried by apparatus to self-feeding box, which holds 300 bushels. This barn is so arranged that one man working two half days a week can feed one hundred head of cattle. Fine spring running a stream of water into watering tank within six rods of the barn; feed yard splendidly drained, and a 100-acre pasture adjacent, which is well supplied with water at other points. Small grove near this barn which affords excellent shelter for the stock at all times. And ample other outbuildings. The entire farm is well fenced.

TERMS: $2,500.00 cash at time of sale on sale contract. Half of sale price taken in mortgage for five years at 5½ per cent, interest payable semi-annually; balance of sale price payable March 1st, 1914, when abstract showing good title, and warranty deed, and possession are given. Option of paying $1,000.00, or any multiple thereof, on mortgage on any interest paying date.

This is regarded as one of the best farms, and best equipped in Iowa, and will be offered for sale at Public Auction, Wednesday, October 29th, 1913, at 2:30 P. M. at the farm residence, Chillicothe, Iowa. Dinner served at farm.

William Hankins, Auctoneer. G. E. Jenkins, Clerk.

LEROY BURCH, Proprietor - CEDAR RAPIDS, IOWA

3 Crops Yearly THAT'S what many Southern Farmers are making. Alfalfa yields 4 to 6 crops annually. Other hay crops do proportionately as well. It's the greatest dairy and livestock section of America.

GOOD LAND, $15 an Acre Up

Truck, poultry and fruits of all kinds make big profits. Seven to ten months growing season. Climate very healthful. Learn the facts, ask for "Southern Field" magazine and land lists.

M. V. Richards, Land & Ind. Agt. Room 50 Washington, D. C.

Southern Ry. Mobile & Ohio Ga. So. & Fla.

STATE LAND SALE IN NEW MEXICO

ON December 8th, 1913, there will be sold at the court house in Deming, New Mexico, 18,000 acres of land. Practically all the land will be sold in tracts of six hundred forty acres. The land is in what is known as the shallow water belt, and irrigation by pumping is being operated successfully on lands in that vicinity. The terms of sale are cash, or ten per cent of the highest bid, the balance divided into thirty equal annual payments, with four per cent interest on all deferred payments. **Robert P. Ervien, Commissioner of Public Lands, Santa Fe, N. Mex.**

WISCONSIN

LAND Seekers' Rates October 21st, November 4th, November 18th. Arrange early with your railroad agent for tickets. See the Marshfield District on this trip—Country of BLUE GRASS, CLOVER and the BIG RED BARNS. Let us show you **FARMS THAT ARE FARMS.** **COLE'S LAND AGENCY, Marshfield, Wis.**

Minnesota's Choicest Corn Land

IN the garden spot of Southern Minnesota, fine improved farms $75 per acre and up. Prices advancing rapidly. Come at once. Address **A. M. Kavanagh, Spring Valley, Minnesota.**

NOTICE TO HOMESEEKERS

ALL who are looking for a home, such as farms and ranches, come to northwestern Nebraska. We have good crops this year; land is yet cheap; fine climate and good water. I have a few bargains left. For particulars, write **C. Johnny Devlin, L. B. 302, Crawford, Neb.**

ALL KINDS OF FARMS FOR all kinds of people. Free Catalogues. Hall's Farm Agency, Owego, Tioga County, New York.

For Sale To settle an estate, 160 acre farm in Dodge county, Minnesota. Address Joseph Chase, Exr., Toulon, Illinois.

Wide-Awake Stock or Dairymen, Attention!

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LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

Man supplies the material, but to woman are we indebted for the creation of the home. The evolution of the home would be an extensive and interesting subject. The first homes were cheerless caves. Fires could not be built in them because of the smoke, and it was a woman that sought a cave with an opening in the rear to permit the egress of the smoke. Time passed and woman presided in a tent. She searched for wood that was old and seasoned, and this solved the fuel problem. To woman we are indebted for the chimney, the kitchen, the dining room, the living room and the sleeping rooms, resting in comfort, good taste and morality.

A home is not necessarily a house; neither is a house a home. Many a woman sits in the shade of her humble abode, sewing tiny garments and singing to her babies, who is as truly a homemaker as one who has every modern convenience.

Do we ever pause to consider, I wonder, the great difference in homes, where, viewed as houses, they look almost exactly alike? A few years ago I was brought in close touch with a row of miners' cabins. The train was passing through a cut and the windows were on a level with the houses. A dreary outlook it was, too, that dismal, foggy day in January. The buildings contained one, or possibly two, small rooms, and the uncurtained windows stared drearily at one, revealing the wretched, comfortless interior. All the houses had been passed but one, although a counterpart of the others, that would give you courage and happier thought—and all because of a shade made from common white paper, that shaded a clean window wherein bloomed a single beautiful geranium. All honor to the woman who thus raised her work above the sordid level of her surroundings. Country women were behind the times longer than their town sisters in comparative worldly circumstances, because they had less opportunity for united effort; little or no opportunity for organization, and too often less education. Happily that day is passed. More and more, farmers, as a whole, are supplying their families w .h the best they can afford. Especially is this true of education, and people who, heretofore, regarded the farmer with good-natured tolerance, today know that it requires just as good a set of brains to be a successful farmer as it does to be a merchant or a professional man.

Not as many farm women desire to move to the city as is generally supposed, and the oftener they get away from home to compare notes the gladder they are to get back to where there is a yard for the children to play in and "elbow" room, as it were, for themselves. One lonesome night of waiting in a depot of a great city sometimes plays havoc with the city microbe.

Home! the one word of all others that causes the heart to bound. A half century ago two opposing armies were encamped, one on each side of a river in the Southland. Your father and mine, many of them were mere youths, who were there only because duty called them. They on one side sang a song relative to their own home. The other side responded with their favorite. Then somebody started "Nome, Sweet Home," and with one ac-

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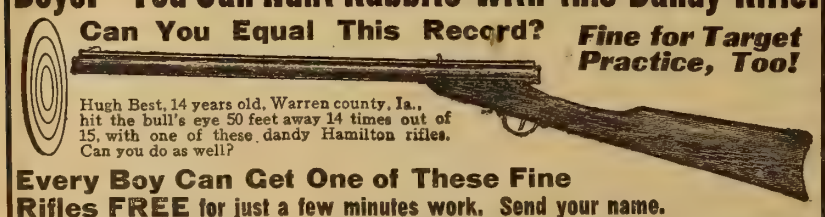

Hugh Best, 14 years old, Warren county, Ia., hit the bull's eye 50 feet away 14 times out of 15, with one of these dandy Hamilton rifles. Can you do as well?

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cord everybody sang it. A hundred men may make an encampment, but it takes a woman to make a home!

HOME AND HOMEMAKING.

ART OF CAKE MAKING.

"Cake is to the appetite what mirth is to the melancholy." There is cake and cake. The coarse, spongy combination that will put any, except the strongest digestion out of commission, and the kind that is a light, delicate texture and delicious flavor. Flour that contains an excess of gluten will not make a cake of fine grain or texture. Prepared cake flour is the best, winter wheat flour is the next best, while spring or hard wheat flour is the least desired. The baking of a cake is of more importance than the mixing. The time should be divided into quarters. During the first quarter the mixture should become heated and begin to rise; second quarter, continue to rise and begin to brown; third quarter, continue to brown; fourth quarter, finish baking and shrink from pan. If the cake is moved in the oven or the stove jarred, while in a soft condition, the cells will be broken before they are cooked and the result is a fallen cake. When done the cake will spring back quickly when pressed gently with the finger. Aside from a few general directions, experience is the best teacher. It is by doing things over and over that we become proficient.

Moonshine Cake.—One cup butter, two cups sugar, one cup milk, one-half teaspoon orange extract, four cups cake flour, two heaping teaspoons baking powder, white eight eggs. Cream butter and sugar until very light; sift the flour with baking powder three times; put back into sifter for the final sifting into the cake; add alternately with the milk; add flavoring; cut and fold in the whites very gently; bake in square, shallow pans in a quick oven about twenty minutes; use any icing desired; before icing is quite hard, mark with a knife into squares; half of an English walnut placed on each square is very nice.

Ginger Cookies.—Molasses, two cups; sugar, one cup; butter, one cup; boiling water, one cup; soda, one teaspoon; ginger, two tablespoons. Roll soft. Soda should be dissolved with the water.

LITTLE HELPS BY THE WAY.

I think it is rather fine, this necessity for the tense bracing of the will before anything worth doing can be done. I rather like it myself. I feel it to be the chief thing that differentiates me from the cat by the fire.—Arnold Bennett.

This is the gospel of labor,
Ring it, ye bells of the kirk,
The Lord of Love came down from above,
To live with the men that work.

This is the rose that He planted,
Here in the thorn-cursed soil;
Heaven is blessed with perfect rest,
But the blessing of earth is toil.
—Henry Van Dyke.

THE MAKING OF CIDER VINEGAR.

To the Editor of The Homestead:

This has been a very remarkable year for apples, and great numbers, especialy windfalls, are going to waste when they might be utilized to good advantage. There is no reason why cider vinegar, when properly made, from these apples will not conform to the requirements of all pure-food laws. I wish to give briefly a statement in regard to the manufacture of cider vinegar on the farm with important points to be noted.

Always use fresh, clean barrels. If they have been formerly used for the manufacture of cider vinegar, be sure to thoroughly scald them with boiling water or steam. There are two important changes which take place in the conversion of the fruit juice into vinegar. First, it is necessary to have a solution which contains sugar. The juice of ripe apples contains from 7 to 15 per cent of sugar—the average being nearly 11 per cent. An apple juice containing 8½ per cent of sugar will produce a vinegar above standard. Mature, ripe apples contain the largest amount of sugar, green apples contain a much smaller quantity, and overripe apples contain a less amount of sugar than ripe apples. Contrary to the usual belief, sweet apples are ordinarily no richer in sugar than sour apples. They taste sweet because they contain less malic acid than sour apples. Malic acid is the normal acid of apples. In pressing the apples, it is well to use as powerful a press as possible because of the greater amount of cider which can be obtained. For instance, a hand press may yield only two gallons of juice per bushel, while a power press would yield four gallons of juice per bushel of apples.

The apples should be washed if dirty, and only sound apples should be used in the manufacture of cider. The first point to be noted is this: Do not add any water, sugar, or molasses to the cider. This is unnecessary, and these adulterants are prohibited under the pure-food law.

The addition of one cake of compressed yeast to five gallons of juice is advisable after first thoroughly softening the yeast with lukewarm water. The presence of the yeast causes the first change to occur in the cider, viz., converting the sugar that is present in the apple juice into alcohol. The temperature interferes materially by retarding the fermentation, while higher temperatures may cause a loss of alcohol by volatilization. Do not let the cider freeze.

When fresh cider is placed in barrels, and stored in ordinary cellars, and yeast has been added, the alcoholic fermentation can be completed in about three months. Do not add any old vinegar or mother of vinegar until the alcoholic fermentation is completed, as the presence of acetic acid in the vinegar retards the alcoholic fermentation. When the alcoholic fermentation has occurred, the product is then known as hard cider. After the alcoholic fermentation is completed, then it is advisable to add about one gallon of good vinegar, containing what is known as the mother of vinegar, to a barrel of the hard cider. The mother of vinegar is another form of yeast, and has the power of converting alcohol into acetic acid. The process of converting alcohol into acetic acid is an oxidation process, i. e., it is necessary to add oxygen to the alcohol in order that acetic acid may be formed.

The old theory of filling a barrel full of cider and placing a bottle in the bunghole to admit light ito the cider is wrong. It is much better to fill the barrel only half or three-quarters full, and every few days shake the barrel so that the contents will be thoroughly mixed with the air, and place gauze over the bunghole to keep out dirt and insects. The more air that can be incorporated with the vinegar, the more rapid the process will take place.

W. B. Barney.
Iowa Dairy and Food Commissioner.

There are about two dozen varieties of pop corn, and the preference between them is largely personal. The colored varieties often are more attractive to children, and the tiny Tom Thumb is popular for decorations. Early planting in a warm, well-drained soil is the chief requisite for success in growing the crop.

AMONG OURSELVES.

R. H. M. gives her idea about social life in the country:

Social life in rural communities declines more rapidly as the country grows older and the people become wealthier. Perhaps the reason for this is that the American farmer has become so absorbed in money-making that he neglects the social part of his nature. In earlier times men were more dependent, one upon another, to get their work done; while today they are independent by having so much machinery to do their work for them. The young people, instead of spending their evenings at the neighboring homes in the community, are found at some entertainment in the near-by town or city. To rally the social life in their home communities these young people might have an entertainment in their own home where, instead of inviting their city friends, they might invite the young people of the neighborhood, get acquainted and have a good time. One way in which the people may be drawn together to enjoy a social time is by the organizing of the farmers with their families into a country club, where a profitable, as well as a social, time may be enjoyed. Topics on "improved farming" are discussed by the men; while the women discuss "housekeeping made easier," and the young people and children betake themselves to another part of the house or lawn where games are played and various amusements furnished. The evening may be brought to a close by serving a simple lunch, which will send the people home in a better frame of mind than most anything else. A literary circle may also be organized by the young people, where a jolly good time may be enjoyed by all. Debates, readings, farces, vocal and instrumental music may be had, while the evening may be brought to a decisive close by an old-fashioned "spelling match." Thus we see that there is much which we can do to raise the social standing in our rural communities.

A few earnest promoters like the above would go a long way toward solving the social problem of farming communities. After carefully noting many different communities, I find the greatest detriment to social life in the country is to break up into classes. Especially is this true when the coun-

try has advanced in wealth. Letters are desired on this very subject. Please let us hear from our folks.

We are privileged with a talk from a wise mother. Reading between lines one can understand where this mother's boys spend their evenings, and the kind of company the girls choose from their masculine friends:

We try to make the home attractive for our children. We have a piano, which my daughter and I can play. We have singing, we are all lovers of music, and games. We give a party once in awhile. Oh, parents, don't be in a hurry to have your boys and girls grow up, for they will grow up pretty fast after they begin to walk. I miss my children out of my arms. We have four dear children. One is a preacher in New York, another son a "Vet," living 130 miles from home, and a daughter also lives on a farm 120 miles away, and one daughter attending the high school. Also we have a daughter and a son in Heaven. My daughter raised a calf that her father gave her when it was three weeks old. She kept it until it became a cow. The first year my daughter gave her father the first calf. The second calf she sold for $6; afterwards she sold the cow for $30, and put the money in the bank. She also had some hens and chickens for her own. Children take pride in raising calves and chickens, and in a garden. It won't be long before they take their parents' places. Let them know that you have an interest in them, encourage them all you can, give them something to do and help them to reason out things. When children see that their parents take an interest in their welfare, they'll go to their parents quicker than to a neighbor or friend. I knew of a family that had three boys and three girls. With them it was work, work, work and not much play in that home. Just as soon as the boys could handle the horses, their father would set them to plow, cultivate, harrow, and do almost a man's work, instead of sending them to school to get some education. But they were after that almighty dollar. Finally the mother died of overwork, while their father goes to town and stays until mealtime and the boys stay at home, working in the field. It's all right to teach the children to work, but we believe in teaching our children to see something of the world. We take papers and magazines and farm journals, so we all have plenty to read. We have a large library and have plenty of good books. My daughter and I are companions to each other. I believe if parents joined in with the young people in their sports, they would feel younger. I know that we feel younger to join in their innocent games now and then. The children enjoy it, too. Make your children feel at home. If God has prepared a "beautiful home for the faithful and all those that love Him," how should we make our home for our loved ones? Let us make it better and sweeter, as we grow older. Then our children will rise up and bless us.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 56, Box 21, Philo, Illinois.

IRELAND'S SHAMROCK.

(First Prize.)

You have heard that the shamrock is the national emblem of Ireland. Have you ever wondered why the people of the country of Ireland chose the modest shamrock out of hundreds of far more beautiful flowers to be their emblem? It is said that once St. Patrick, a famous minister of the gospel, was preaching in a village to a large congregation of Irish infidels who did not believe what the great man said; but jeered and ridiculed his ideas. St. Patrick became excited and stooped down and caught up a trefoil from the Irish soil at his feet. By means of the trefoil or shamrock he explained his ideas so well that the people were satisfied, and went home loud in their praises of the great man. Ever since the three-leafed clover, or shamrock, as the Irish call it, has been known as the national emblem of dear "Old Ireland."

—Ella Ahlers.

The Discovery of the Dahlia.

(Second Prize.)

Years and years ago a young Swedish botanist, Andre Dahl by name, went to sunny Spain for specimens of flowers for his beautiful collection. Growing on the banks of a murmuring brook, at the foot of a mountain, he found a gorgeous flower smiling in the bright sunshine. The young botanist was greatly pleased at his discovery and took some plants of it along with him when he returned to his native land. The Swedes fell in love with the brightly colored flower; his friends named the plant "dahlia," in honor of him. Today many varieties of flowers, in many shades and colors of the dahlia, grow in every land. No flower garden is complete without a few of the young Swedish botanist's beautiful dahlias. —Anon.

William McKinley.

(Third Prize.)

William McKinley was born in Niles, Ohio, on the twenty-ninth of January, 1843. He received his early education at Poland Seminary and later entered Allegheny College at Meadville, Pennsylvania, but was compelled to quit on account of ill health. He taught school for several years. In 1861, he enlisted in the 23d Ohio infantry under General Rosecrans; he served through the civil war and gained the rank of brevet major. McKinley studied law and was admitted to the bar in 1867. In 1876, he became a member of congress and governor of Ohio in 1891, and was elected twenty-fifth president in 1896 over Bryan, the democratic candidate. He was re-elected in 1900. McKinley delivered an address at the Pan-American Exposition at Buffalo on September 5th; a reception was given him the next day. Leon Czolgosz, an anarchist, shot and fatally wounded him. He died the fourteenth of the same month and was buried on the nineteenth. Business was suspended for five minutes, througnout the world, at the hour of interment. —M. A.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 4. Nos. 20: 1-13, Oct. 26, 1913.

THE SINS OF MOSES AND AARON.

It is a mistaken notion, wide of the mark, which pictures the pilgrim nation as a compacted army, marching in serried column. That would have been impossible. They scattered out widely, in groups or clans, in quest of pasture and water. Thus for a whole generation they had adjusted themselves, like bedouins or shepherds, to the topography of the district. But now the long-drawn process—the preparation of Israel for Canaan—nears its end. The wilderness had been one great schoolhouse, where they had suffered the discipline and learned the lessons which have fitted them to be preeminently the torch-bearing nation for the others which still sat in darkness. So a rendezvous is named and an assembly of the whole "congregation" is called, preparatory to an immediate passage into the land of promise. But an accident spoils it all! That is a laconic but fateful remark. "There was no water." Millions of people and a water famine! Could anything be more untimely? Why this massing of the hosts in the dry season of midsummer? What better was this promised land than a mirage? It was even now fading from view, like a mystic oasis. Were not the people justified in criticism and complaint? Yes!—if God had not paved the whole wilderness with his deliverances! They ought to have been able to anticipate the devout logic of David's psalm, "The Lord hath been mindful of us—he will bless us!" Quiet communion with God and their own souls would have restored their self-possession. But instead they talked and fussed among themselves. Distrust, bitterness, criticism, as usual, was the result. The worst of it all was that Moses himself had caught the subtle infection and had fallen into the very sin of the people. He lost poise and temper. He was to have performed a holy function, as a representative of God, before all the people. The act called for deliberate calmness, dignified carriage, well-modulated voice. But instead, with the petulance of a spoiled child, he did the direct opposite of what he had commanded. Instead of addressing the rock, he took opportunity to upbraid the people. He was not told to strike the rock at all, but in his temper he struck it twice. However, though the spirit and method were so evil, God did not count it against the suffering hosts. The water gushed out in abundance for man and beast. Moses' public offense could not be condoned without lowering the moral tone of the whole people. The punishment was exemplary. The very form of it was significant. He failed to reach the supreme object

Do You Know Where "Ladies' Home Journalville" Is?

That is what a suburb of a Southern city is called, because it is built up entirely of the small house-plans published in *The Ladies' Home Journal*. And all say it is "one of the prettiest suburbs" they have ever seen!

Over 25,000 houses have been built in the United States from plans published in *The Ladies' Home Journal*.

For 20 years these plans have been published and new ones are constantly being given now.

Then, there is an Architectural Editor attached to *The Ladies' Home Journal*, who answers by mail, free of charge, any question about house-building, and an Interior Decoration Editor, who solves all problems about how to make a home pretty inside.

Last year these two editors answered 11,000 letters—quickly, fully and authoritatively: not in print or in the magazine, but by mail: a personal service direct and intelligent.

What these editors have learned in 20 years about house plans is at your service. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

A year's subscription to *The Ladies' Home Journal*, by mail, costs $1.50, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

THE CURTIS PUBLISHING COMPANY
INDEPENDENCE SQUARE
PHILADELPHIA, PENNSYLVANIA

WILLIAM GALLOWAY, President

I Want Every Reader of the Iowa Homestead to Write Me for My Money Saving Catalogs

I want **you**, the man who is holding this paper in his hands right now, to write me **right away.** I'm making a special appeal to the readers of this Great Farm Paper. I've got **something special** to offer every one of you. I want you to get my catalogs **first,** because they are the first step in our getting better acquainted in a business way, on my direct from factory to farm, one-profit, money-saving plan. My catalogs are my only salesmen. They are the cheapest and best salesmen in the world. Just write me today for the catalog or catalogs you want. A one cent postal will bring them.

Just a Personal Word from William Galloway

I HAVEN'T any secrets about my business. The more my farmer friends know about my affairs the better I am satisfied. I've made good, but I know that every bit of my success is due to the fact that every single man who does business with me has found that **he can trust me absolutely.**

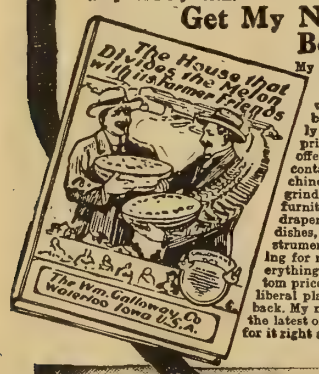
I'm a farmer myself, a dairy farmer. Always have been a farmer and always expect to be. The picture below shows my big dairy barn, two money making silos, manure granary where we keep the manure produced by one hundred head of thoroughbred Holstein and Ayrshire cattle in as perfect condition as possible for getting the full value of it when spread on the land. You can see some of my Ayrshire cattle in the picture and a Galloway Low Down Spreader just ready for the field.

I was born and raised on a farm and I know what you're up against when it comes to buying right, because I've been through the mill myself. That's why I got into this business. I used to sell farm implements for other people. I didn't keep at it very long because I saw with my own eyes every day the actual evidence that a farmer simply couldn't get a square deal and his money's worth so long as he had to pay a lot of middlemen's profits which were always loaded on to the real value of the goods.

I made up my mind to see if the cheaper and better way wasn't to manufacture my own goods—making them just the best that they could be made—**and selling them direct to the farmers at actual factory cost with only one very small factory profit added.** I started out in a small way because I didn't have much money. But it didn't take long to prove that my faith in the intelligence and buying judgment of the men on the farms was founded on solid rock. My business has been tremendous right from the start. My profits have been small—smaller than almost any other manufacturer in the country. And I'm going to keep 'em that way. I'd rather make a small profit and sell a lot of goods than a big profit on a few goods.

Naturally the dealers don't like me very well, for I stand in the way of their big profits. That's why a lot of them have gone out of their way to misrepresent my business. They can't do that very well any longer, now, for I've made a $5,000 Challenge Offer to any man or company in the world who can prove that every word of Galloway's story is not true right down to the last detail, or can disprove that my factories are not exactly as shown, or can disprove any statement or claim I make. I'll send you a copy of this challenge offer when you write me. Besides that, I protect every single man who does business with me with a $25,000 Cash Guarantee Bond that makes it just as safe for you to do business with Galloway as with the United States government. **Now** I want you to find out just what all this means to you in **cold, hard cash.** I've enlarged my line tremendously for 1914. I am offering **more** bargains and **bigger** bargains than I have ever been able to before. I want you to get the proof for yourself.

Get My New Big Book of Bargains



My big General Merchandise catalog has 1000 or more bargains for the farm, home and family. You want to get a copy of this big book without fail. You will simply be amazed at the wonderful price and quality bargains I am offering you in this big book. It contains a full line of farm machinery, tools, buggies, harness, grinders, household furnishings, furniture, carpets, rugs, linoleums, draperies, curtains, refrigerators, dishes, sewing machines, musical instruments, watches and jewelry, clothing for men, women and children—everything at the same amazing rock bottom prices and on the same wonderfully liberal plan—satisfaction or your money back. My new big catalog is just out with the latest of everything. **It's free.** Send for it right away.

My Factory to Farm Plan Saves Farmers a Million a Year

You know what I've done in the **past—saved more money for** the farmers of this country and given them **a squarer deal than any other manufacturer.** That's why I have been able to build up a mammoth direct-to-farm business here in Waterloo in so short a time. Now, this year I'm going to break all my past records. And I'm going to do it by putting some special propositions right up to the best farmers in the country. I'm going to make you some offers that are so unusual that you **simply can't get away from them.**

Over one hundred and thirty-five thousand farmers know by actual experience that the **Only Way** is the **Galloway, Selling Direct from Factory to Farm,** and I want you to **give my plan a trial.** I want you to **at least investigate it** by sending for my catalogs which **tell all about my plan.** I want to show you just what a man can do for you when he will **sell you direct from his own factories to your farm.** I want you to see for **yourself** what an amazing difference it makes in prices when you **don't have to pay one single middleman's profit.** Write me; you won't be under the **slightest** obligation. I'll show you how you can save hundreds of dollars in the next year alone. I'll give you the evidence, then let you decide. Just mail me a postal or letter for the catalogs you want **right now.**

My 5 h. p. Stationary Gasoline Engine $99.50

Can you beat that price? Never! Yet I am making prices all along the line to equal it. My 1 3-4 H. P. Air Cooled Boss of the Farm Engine sells for only $26.75. My 2 1-4 Little Wonder at only $39.50. My 6 H. P. Stationary at only $109.75. My 7 1-2 H. P. Stationary at $179.50. My 10 H. P. at $247.50. My 15 H. P. at $342.50. Can you beat these prices? Never! You can't equal them, for they are the lowest ever made in the history of this country on a strictly standard, high grade gasoline engine.

Listen! Before I came on the market a few years ago with my famous 5 H. P. engine, dealers were asking for inferior engines of same size from $250 to $325. I have forced them to come down on their high prices but they are still clear out of range of my amazing low prices. Yes sir, on my direct from factory plan, **I'll save you $50 to $300**—Depending on the style and size engine you buy, and I guarantee to give you as high a grade an engine as there is on the market regardless of price.

My Complete 50-60 Bushel Spreader Only $64.75

That's my new low price. Can you beat it? Not by any means. My price includes trucks, spreader box, force feed, whiffletrees, and neck yoke—everything complete. If you only want my wagon box spreader, I'll sell you a guaranteed attachment spreader for only $39.50.

Nine different styles and sizes to select from. My new, low-down, semi-underslung spreader is a wonder. Don't buy a manure spreader of any other style or make until you get my catalog and new low spreader prices. You can't afford to, because I'll save you $25 to $45 on the lightest draft, largest capacity, best built, two horse spreaders on the market. Let me prove it to you. I'll make you this unheard-of-offer. Try one 30 days on your own farm, with your money in your own pocket, no bank deposit, no notes, a strictly free trial offer. Give my machine any kind of a test you can think of, then keep it or send it back, if it doesn't suit you. You take no risk whatever. Over 40,000 Galloway Spreaders in use today. Get my new special manure spreader offer. Just write me today for new spreader catalog. Do it without fail.

I'll Save You $50 to $300

Here is just the sort of offer I make you and have made the more than 30,000 Galloway engine users today. You send for one of my engines, any one of my nine different styles or sizes, either mounted on trucks, with wood sawing outfit or stationary. Remember, you have five different plans on which you can buy, cash, bank deposit, two note plans and installment. When you receive my engine give it any kind of a test you want to, run it right along side any other make on the market. Do this for thirty days entirely at my risk, and keep the one that suits you best. Every Galloway engine is sold on 30 days' Free Trial backed by a 5 year warranty on materials and $25,000 legal bond. You take absolutely no risk when you try one; if the engine you buy isn't perfectly satisfactory you can return it and I will refund your money and pay all the freight charges. Isn't that a fair, square offer? No one can make you a fairer one, can they?

Free Service Bureau. Then you have the services of a big corps of engine experts always at your service who will assist you in installing your engine. They'll tell you how to use it to best possible advantage for your work, best size pulleys to buy, line shafting, etc. This service costs you nothing. It's a part of my plan. Now, don't wait, write me. Get my engine catalog. Mail me a letter or postal asking for it today. It explains my entire plan and gives my new, low, unequalled engine prices.

My New Galloway Sanitary Cream Separator Only $42.50

This is the machine it has taken us three years to perfect and build. It's in a class today by itself. It's the most modern, most sanitary and closest skimming machine ever invented. It's the easiest to run, easiest to clean. Gearing runs in a constant bath of oil. Requires oiling only once a month. I want you to know more about this incomparable Galloway Sanitary Cream Separator. Get my catalog.

The new Galloway Sanitary is built in three sizes—500-750 and 950 lbs. capacities. My prices are $42.50—$51.00 and $63.50 respectively.

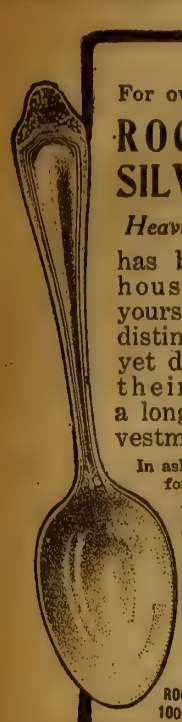
The lowest prices ever made on a standard large capacity, high grade cream separator. Remember, I'll save you $35 to $50 over what you would have to pay a dealer or agent, for an inferior machine.

Write me today without fail. Get my new low prices. Get my big illustrated cream separator catalog. A postal will bring it.

Get My Special Cooperative Profit Sharing Offer

I'm ready to help you dairy farmers to put money right in your pocket. I'll prove that I can do it. You are going to buy something that I can save you a lot of money on, within the next few weeks. Get my prices, **learn more about my direct from factory plan before you spend another dollar for anything for the farm, home or family.** When you send for my catalogs I will explain my new co-operative, profit sharing offer to you. This new plan of mine will help you get your machine partly or entirely without cost to you in the end. I'll tell you all about it in a personal letter when you write for my free books. Get this sure. It won't take you a minute. It may mean hundreds of dollars to you this year alone. **Write for my catalogs and my special offer before you lay this paper down. Do it now.** Address

William Galloway, Pres. WILLIAM GALLOWAY COMPANY
17 B Galloway Station WATERLOO, IOWA



For over forty years

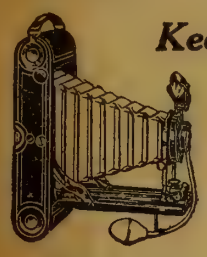
ROCKFORD SILVERWARE

Heavier than Standard

has been used by housewives like yourself who love distinctive designs yet desire to make their purchase a a long-wearing investment.

In asking you to see Rockford Silverware at your jewelers, we are actuated by sincere motives. Our silver costs no more than standard lines. But it is a product of a house whose highest aim is to make each piece just as good as it can be made. Our booklet is free for the asking.

ROCKFORD SILVER PLATE CO.
100 Wyman St. Rockford, Ill.



Keep a

Kodak Record

Preserve for future reference an indisputable record of your crops, your growing stock, the condition of buildings and fences and roads—by means of photographs.

Make sales of your stock by means of photographs; bring home ideas from other people's farms by means of photography.

You can make good pictures by the Kodak system. It's all very simple—and less expensive than you think.

Catalog free at your dealers or by mail.

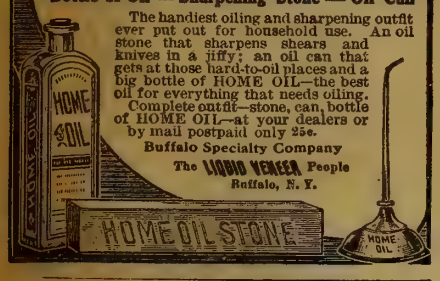
EASTMAN KODAK CO.,
392 State St. ROCHESTER, N. Y.

HOME OIL OUTFIT

Bottle of Oil — Sharpening Stone — Oil Can

The handiest oiling and sharpening outfit ever put out for household use. An oil stone that sharpens shears and knives in a jiffy; an oil can that gets at those hard-to-oil places and a big bottle of HOME OIL—the best oil for everything that needs oiling. Complete outfit—stone, can, bottle of HOME OIL—at your dealers or by mail postpaid only 25c.

Buffalo Specialty Company
The LIQUID VENEER People
Buffalo, N. Y.



Truth About Furs

High quoted prices don't mean the biggest check, unless the grading is right. We grade honestly, pay highest MARKET PRICES and buy furs out and out, charging you no commission. If you want furs held separate and our offer is not satisfactory, we'll return the furs, paying express. Write for latest price list.

OMAHA HIDE & FUR CO.
1228 Jones St. Omaha, Nebr.

FREE Sweet toned violin, horse hair bow and box of resin given for selling 20 large colored Art and Religious Pictures at 10c. Order today.

Satisfaction guaranteed.

EATES MFG. CO.,
Dept. 653, Chicago

of his whole career—entrance with the people into the land of promise. Thus, in a singular and speaking way, God proved his deadly hatred of sin. He could not and would not overlook it even in the man who was dearer to him than any other who walked on earth. He cannot look upon the least degree of sin with the least degree of allowance.

GOOD BOOK FOR FARM LIBRARY.

Under the title "Educational Resources of Village and Rural Communities" there has recently come from the press a very readable volume by Prof. Joseph K. Hart, of the Washington University. It is in reality a summary of the experiences of men and women who are striving for the better development of the social standing in rural and village communities. There is set forth in much detail the great lines of community interest, activity and resource. The subject chapters are The Community as Educator; The Physical Resources of the Community; The Human Resources of the Community; The Economic Activities of the Community; Community Health, Hygiene and Sanitation; The Local History of the Community; The Political Life of the Comunity; The Development of Outdoor Beautification in a Community; Economy and Beauty in the Homes of the Community; The General Social Life of the Community; Recreation, Play and Amusements in the Community; Moral and Social Deficiencies of the Community; The Religious Life of the Community: The Intellectual Life of the Comunity; The Community Life as Curriculum of the School and Comunity Activity in the Administration of Education.

The regular publisher's price of this volume is $1 and this paper is able to supply it to its readers at this price.

Because of the fact that a large number of county boards hold their meetings during the second week in September the dates for the annual convention of the Wisconsin Potato Growers' Association have been changed to November 20th and 21st. The large armory at Rhinelander, Wis., has been secured as headquarters for the convention and accompanying exhibition. It is expected that the exhibit of potatoes will be the largest ever held in the Northwest, and the gathering of men interested in potato growing will be one of the most significant ever held in the United States.

Fuehr & Stemmer Piano on Thirty Days' Trial.

On page 20 of this week's issue the Fuehr & Stemmer Piano Company, 18 East 24th St., Chicago, Ill., have a large advertisement which we believe will interest our readers. A piano in the farm home is considered almost a necessity in this day and age, and this concern is making a very liberal offer of thirty days' free trial. They say of their pianos: "Every Fuehr & Stemmer Piano is given ten separate tuning operations here at the factory. Each piano has a special guaranteed action—giving it responsive touch and delicate tone quality that command the admiration of musicians." We suggest that our readers look up the advertisement and write for catalog.

Write for This Stove Book.

For years the Kalamazoo Stove Company, Kalamazoo, Mich., have been advertising and selling stoves direct to our readers and it is said have built up a splendid business and a remarkable reputation for fair dealing. Now they are advertising to send free to any home, all postage prepaid, one of their big book, catalog No. 165, on stoves illustrating over 400 stoves in every style and size and giving the prices of these stoves freight paid to your station. We believe it would be to the interest of our readers who are in the market for stoves to send for this book, as it is said to contain much information of an educational value regarding stoves in general and we would suggest that they obtain a copy before buying a stove. See page 22.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect fitting, seam allowing patterns at 10 cents each postage prepaid. Full directions for making, as well as the amount of material required accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6110 Children's Apron.—This apron is developed in white linen and embroidered around the edges with white floss. It is made to be slipped on over the head and a pocket is sewn in each side of the front.

The pattern 6110 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 1⅞ yards of 27 or 36-inch material. Price of pattern ten cents.

6234 A Practical Waist.—This design is to be classed with shirt waists. It has two tucks at each side of the front, but the back is plain. The closing is made with a box plait or without as preferred and the neck is trimmed with either a standing collar or a flat, ornamental one, both being provided in the pattern. This style is good for crepe materials, linen, gingham, cambric, pongee and the like.

The pattern 6234 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2½ yards of 36-inch material. Price of pattern ten cents.

6231 Boy's Russian Suit.—We have yet to find an improvement on the Russian suit for little boys. This design shows a plain, straight blouse section with sleeves very slightly gathered at shoulder and wrist and with the neck cut round and trimmed with an applied band which also extends down the front. With this blouse small knickerbocker trousers are worn.

The suit pattern 6231 is cut in sizes 2, 4, and 6 years. Medium size requires 2¾ yards of 36-inch material, with ⅞ yard of 27-inch contrasting fabric to trim as shown. Price of pattern ten cents.

6294 Girl's Coat.—This coat is made with the long blouse effect. The skirt of the coat is cut in three gores. The collar can be used or not as preferred. Serge, cheviot or mohair can be used to make this coat.

The pattern 6294 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 2⅞ yards of 44-inch material, ¾ yard of 27-inch material for collar and cuffs and ⅜ yard of 24-inch satin for the belt. Price of pattern ten cents.

6316 Misses' Dress.—In this model we have the simple yoke style, which is so becoming to all figures. The yoke in this case is sc and fairly deep, with the balance of the waist, both front and back, gathered where it is attached. The sleeves are plain and the skirt is made with four gores, the panel effect being used in front and back, with gathers at the sides.

The dress pattern 6316 is cut in sizes 14, 16 and 18 years. Medium size requires 4⅞ yards of 36-inch material. Price of pattern ten cents.

6305 Girls' Dress.—This very simple frock offers one element of novelty in the arrangement of the shoulders where the material extends over the sleeve. The closing is in front and there is an unusual collar arrangement at the neck. A belt confines the very slight fullness at the waist. This model will be pretty in gingham, linen or ratine.

The dress pattern 6305 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 2⅝ yards of 36-inch material. Price of pattern ten cents.

$285 Motorcycle Given Away!

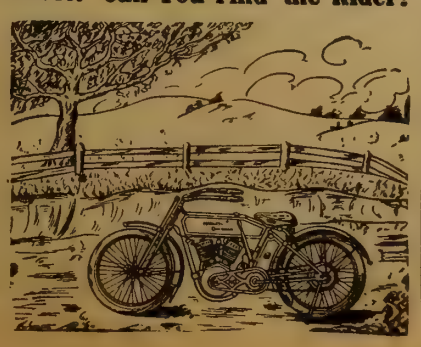
YOU see here a picture of the $285 Harley Davidson Motorcycle I am going to give away. In another part of the picture is the face of the rider. When you find the rider, mark his picture with a cross (x) and send to me.

Be sure to send your name and address so I can tell you all about the contest in which you can win a $285 Motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

A. M. PIPER, 200 Popular Bldg., Des Moines, Iowa

Puzzle: Can You Find the Rider?



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HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Nov. 3, Obadiah Prettyman, Fairfax, Mo.
Nov. 4, C. W. Phillips, New Sharon, Ia.
Nov. 5, H. O. Williamson, Herman, Neb.
Nov. 6, L. B. Williams & Sons, Villisca, Iowa, (sale at Sciola, Iowa.)
Nov. 8, S. A. Nelson & Son, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 11, R. C. Hollingshead, Russell, Iowa, sale at Chariton, Iowa.
Nov. 13, H. F. Dodds, Florence, Neb.
Nov. 14, E. V. Waugh, Greeley Center, Neb.

Duroc Jersey Swine.

Nov. 5, S. W. Swanson, Stanton, Iowa, (sale at Red Oak).
Nov. 10, John T. Higgins, Abilene, Kan.
Nov. 25, W. M. Sells, Indianola, Iowa.

Hampshire Swine.

Nov. 4, H. D. De Kalb, De Kalb, Iowa, sale at Council Bluffs, Iowa.
Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.

Chester White Swine.

Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

Holstein-Friesian Cattle.

Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Short-horn Cattle.

Nov. 7, S. A. Nelson & Sons, Malcolm, Neb., sale at Lincoln, Neb.
Nov. 19, C. E. Gibbs, Klemme, Iowa.
Nov. 20, Closing-Out Sale, A. H. Metier, Weldon, Iowa
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. D. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.
Mch. 11, W. A. Wickersham, Melbourne, Iowa.
Mch. 17, Geo. H. Burge, Mt. Vernon, Ia.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Imported Shire Mares.

Dec. 9, J. A. Sage, Ankeny, Iowa.

Clydesdale Horses.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.

Hereford Cattle.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9. B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Aberdeen Angus.

Nov. 4, Combination Sale, So. Omaha, Neb., M. A. Judy, Mgr.
Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

FIELD NOTES.

Sol Frank, Sioux City, Iowa, advertises good Duroc Jersey boars at $25 to $50 on page 37.

Immune Duroc Jersey boars are advertised for sale at $25 and $35 by J. F. Kerns, Holstein, Iowa, on page 36.

Howard S. Cooper, Wellman, Iowa, has two St. Bernard pups that he is offering for sale in his advertisement on page 15.

Forty-five head of Poland China boars are advertised for sale by A. W. Stewart, Harlan, Iowa, at from $20 to $45 on page 38.

The advertisement of Henry Althoff, Lansing, Iowa, offering full blood Fox and Wolf hound pups for sale, appears on page 15 of this issue.

W. S. Huber, Tipton, Iowa, has full-blooded Fox Terriers on which he is quoting prices in his advertisement that appears on page 15 of this issue.

Mrs. A. N. Bonnett, Birmingham, Iowa, is advertising bright, intelligent Collie pups from trained stock for sale in her advertisement that appears on page 15.

On page 32 of this issue of The Homestead appears the advertisement of Vane Coen offering Tamworth spring boars, fall yearlings and a few choice gilts for sale.

Davenport & Mack, Belmond, Iowa, advertise fifty Poland China boars for sale on page 39. Their price is $25 to $40. Order one of these at once and get the pick of the bunch.

Fifty head of large-type, big-boned, immune Poland China boars are advertised for sale by M. P. Hancher, Rolfe, Iowa, on page 38. Price $30 to $50 for immediate delivery.

Eugene Holden, R. R. 1, Williamsburg, Iowa, advertises on page 32 that he has for sale ten very choice Tamworth boars of spring farrow and one mature boar, and that he will sell them at reasonable prices. Write him.

When a car like the Mitchell can be obtained for less than $2,000 it is just like picking up a good profit, because it is worth the saving of several hundred dollars. The Mitchell is the car of quality, efficiency and long life. The makers have everything at their hand in the way of manufacturing equipment and materials, together with the choicest scientific and mechanical ability necessary in planning and in construction. The principal features of the 1914 Mitchell are given in the advertisement. Complete details may be learned by writing to Mitchell Lewis Motor Co., Racine, Wis., U. S. A. See page 7.

W. E. Hemenway & Son, Steward, Ill., claim December 8th as the date for a sale of Hereford cattle and Clydesdale horses, full particulars regarding which will appear in later issues of The Homestead.

The Omaha Hide & Fur Co., has an interesting advertisement on page 25. They guarantee highest market prices and satisfaction to customers. For price list address Omaha Hide & Fur Co., 1228 Jones St., Omaha, Neb.

Silas Igo, Indianola, Iowa, is offering some great Duroc-Jersey spring boars for sale on page 37. He also offers one of the best sons of Crimson Wonder Again and H. A.'s Queen that we know of. Write him at once about these boars.

E. W. Biggs Trapper's Guide and free catalog advertised on page 17 tells all about furs and trapping. It may be obtained by any reader of this paper without cost by writing to E. W. Biggs & Company, 138 Biggs Bldg., Kansas City, Mo.

Ball Band footwear advertised on page 8 is designed to protect the farmers' feet from wet and cold. A free illustrated booklet tells about the various kinds made. Write for it to Mishawaka Woolen Mfg. Co., Water St., Mishawaka, Ind.

Percheron stud colts and fillies are offered for sale by Henry Moll, Garner, Iowa. He wants to close out a bunch of these and he is making bargain prices for the next thirty days. He also has a good yearling Short-horn bull that he offers for sale.

Mrs. Peter Ellerbroek & Sons, Sheldon, Iowa, are offering some splendid large-type Poland China boars for sale on page 39. They are making special prices on these boars in order to make room for their fall pigs. Mention The Homestead when writing them.

Those of our readers who want Aberdeen Angus bulls should read the advertisement of Chas. M. Russell, Carroll, Iowa, on page 35. He offers twenty head of the best and most noted tribes. Write him about these bulls and mention The Homestead.

A circular and handsome hanger printed in five colors describing the McDonald Pitless Scale may be obtained free by addressing a request to the Moline Plow Company, Department 11, Moline, Ill., whose advertisement of the McDonald Scale appears on page 18.

An offering of high-class Shire horses will be made at Bushnell, Ill., January 15th by C. C. and R. W. E. Williams. Included will be a number of state fair and International Live Stock Exposition winners. Full particulars will appear in later issues of The Homestead.

Big Ben is the farmer's clock. It is made of implement steel so it lasts for years. It is an alarm clock that does its duty. It is a time-keeper that never goes wrong. Three million families are using it. All others should. Clock makers every place keep it. See page 10.

Jesse Binford & Sons, Liscomb, Iowa, breeders of Short-horn cattle, write under recent date: "We have a few good young bulls of serviceable ages which we are pricing low. We would like to have Homestead readers needing a bull inspect our herd." See advertisement on page 34.

C. H. Porter, Eagle Grove, Iowa, is advertising forty-five head of well-bred, big-type, immune Poland China boars for sale on page 38. He is pricing these boars at from $30 to $50 and now is a splendid time to order one. When writing Mr. Porter kindly mention The Homestead.

In an advertisement on page 32 Harry Hurless gives notice that for the next thirty days he will sell Chester White boars and gilts at remarkably low prices. He has about forty head of spring boars on hand and wants to get them out of the way for his crop of fall pigs. The boars will weigh from 140 to 300 pounds. They are long, good bone, with strong backs and neat heads and ears. They are the get of three different sires. They are guaranteed to be as described and will be sold at from $20 to $35 each. Do not buy before investigating this offer. Address Harry Hurless, Olden, Iowa.

Overland dealers are the happiest lot of automobile men in the business. The reason is easy to learn. In fact, there are a whole lot of reasons. The important ones, however, are that every year the value of the Overland has increased while eveery year the prices have decreased, the motor being more powerful, the equipment more perfect, the design more beautiful and the servicableness of the car unquestioned. Read the big advertisement on page 2. It tells the story in brief. In full length it is told in the handsome 1914 catalog for which write to Willys-Overland Co., Department 80, Toledo, Ohio.

H. C. Mehring, Manson, Iowa, whose advertisement of Hampshire fall and spring boars for sale appears on page 38, writes: "The Blue Ribbon Stock Farm is offering for sale a fine lot of Hampshire boars. And these are immune. We have had them all vaccinated simply because we think that buyers are wanting immune boars and we wanted to be in a position to fill their orders. We also have boars for sale from six months to two years. These are all well marked. We also have some fine Scotch Collie male pups for sale. These are all the big kind and are regular hustlers. They are eight months old and will sell at reasonable prices." For description and price list write to H. C. Mehring, Manson, Iowa.

John C. Nyrup, Harlan, Iowa, is offering some of the best Poland China boars he has ever raised at $25 each on page 38. Send Mr. Nyrup an order for one of these boars at once and you will be satisfied.

Hog cholera and roup are the two most serious affections of farm stock. Sloan's liniment is advertised on page 15 as a means of preventing hog cholera and a sure cure for roup. Those who use it are loud in its praise. Note the prices in the advertisement and forward orders to Dr. Earl S. Sloan, Boston, Mass.

A splendid, big-type yearling Poland China boar, sired by Barker's Hadley and out of a Big Orange bred sow is offered for sale by C. L. Thuirer, Fostoria, Iowa. He went through the cholera and so is immune. He is a splendid boar and $100 takes him. He is a bargain at the price and you will say so if you go and see him.

C. G. Good, Ogden Iowa, a well-known importer of Percherons and Belgians, leaves this week for the old country where he will make selections for an early importation. Mr. Good has already disposed of one lot of imported horses and finds it necessary to go for more on account of the demand which is made on him.

The expression which heads the advertisement of Funsten Bros. & Co. on page 10 tells an important story. This firm handles furs and pelts of all sorts, and their immense business enables them to pay the very top prices for good goods. An interesting circular, together with a free copy of Trapper's Guide and a list of game laws, may be obtained by writing to Funsten Bros. & Co., 1614 Funsten Bldg., St. Louis, Mo.

In an advertisement of the Southern Railway on page 21 the announcement is made that excellent homesteads may be purchased along the lines of that railway at from $15 to$50 per acre. The advertisement gives other and additional important facts. Still further information may be obtained by writing to M. V. Richards, Land & Industrial Agt., Southern Railway, Room 50, Washington, D. C.

C. A. Saunders, Manilla, Iowa, announces on page 32 that he has twenty-three pure-bred Percheron horses that he wants to trade with some man who will come and look at them. He will not answer letters because the trade must be made the last of this month or not at all. Any read of this paper who wishes to go into the horse business on the basis proposed should go and see Mr. Saunders without delay.

Germozone, the Lee preparation advertised on page 15, is just as successful in the cure of bowel complaint in chickens old or young, or for roup, canker or sores of any sore in poultry, as was the original Lee Lice Killer in its work when it was first introduced. A sample of Germozone will be sent to any address on receipt of ten cents to pay postage. Booklets describing it may be had free. Address George H. Lee Co., Omaha, Neb.

The Morning Sun herd of Chester White hogs advertised on page 32 offers for sale a choice lot of spring boars, the get of Fancy Boy. Fancy Boy is a son of Sweepstakes, that will be remembered as the 1,260 pound Boyer hog that made such a sensation at the state fairs last year. Fancy Boy weighed over 500 pounds at fourteen months old. His pigs show the same growthiness and quality. Write for prices. Address W. M. Stoll, Le Mars, Iowa.

W. T. McLaughlin has for sale good Poland China boars of fall and spring farrow and advertises them on page 32. Mr. McLaughlin's herd is headed by Bouncer 190715, he is a son of the well-known Dorr's Expansion, that aside from being a breeding hog of remarkable merit was a prominent show winner and sire of show winners at the Sioux City Fair. Bouncer's dam was Griffin's Samboline, a sweepstakes winner at the Sioux City Fair of 1912. The blood lines involved are good ones, the pigs are thrifty and growthy, and will be sold at reasonable prices. Address W. T. McLaughlin, Manson, Iowa.

Any reader of this paper who has a bunch of Short-horn cattle that he is willing to trade for Percheron horses will be interested in the advertisement of C. A. Saunders, Manilla, Iowa, which appears on page 32. The lot of horses includes one extra Percheron stallion that was a first-prize winner at the Iowa State Fiar in 1908. All the mares of sufficient age are good work horses that have been working on the farm all summer. Mr. Saunders is recognized as one of the best horsemen in the state and has never been willing to keep a poor horse on his farm. The opportunity is a good one. Do not neglect it.

Doolittle's Chester White Hog Sale.

W. P. Doolittle, Woodland, Mo., will sell at his White Eagle Farm, on Thursday, October 30th, fifty head of O. I. C. hogs that are the most uniform and toppy lot ever offered from the herd. Twenty big, growthy, spring boars, ten fall yearling gilts and twenty spting gilts are listed. They have for sires White Eagle Chief 32392, Pompos 39027, Nymph's Eagle Chief 36935, White Eagle Tom 35007, Billy Boy 358825 and O. K. Perfection 29586 and are from selected sows that Mr. Doolittle has reserved for his breeding herd. They represent several years' work in building a herd that stands among the good herds of the country. In this sale the tops of 150 head are listed and those looking for boars or gilts that are well bred and are good enough to go to any breeding herd should not fail to attent Mr. Doolittle's sale. A few of the hogs were taken to three of the best county fairs in northeast Missouri and fifteen first prizes, thirteen second prizes and eight champion pfizes were won. Mr. Doolittle wants to send you a catalog and will on receipt of your name and address. He invites you to the sale whether you buy or not. Woodland is on the Burlington railroad nineteen miles west of Quincy, Ill., or Hannibal, Mo., and four miles west of Palmyra, Mo. Note page 33 for Mr. Doolittle's advertisement and when writing him kindly mention this paper.

Gruis' Immune Boars.

On page 36 Heiko Gruis, George, Iowa, advertises a choice lot of immune Duroc Jersey boars for sale, sired by his first-prize senior yearling boar at the Interstate Fair this fall, and we might incidentally remark this hog was one of the best boars shown at that fair. Mr. Gruis has had his herd vaccinated with the single treatment and these boars are ready to ship at any time. He is pricing them at $25 to $35 and they will weigh from 150 to 175 pounds. When writing him kindly mention The Homestead.

Some Great Angus Bargains.

Those of our readers who want some choice Aberdeen Angus cows or heifers should read the advertisement of Escher & Ryan, Botna, Iowa, on page 35. They are offering some wonderfully good cows and heifers of the very choicest families and some extra choice young bulls. If you are thinking of purchasing Angus cattle it will certainly pay you to visit this great herd and look it over and you will be sure to buy. Their prices are within the reach of everybody. When you write them kindly mention The Homestead.

Snyder's A Wonder for Sale.

Perry A. Snyder, Carlton, Neb., owner of Snyder's A. Wonder is offering that great boar for sale. He is sired by a son of A Wonder and we want to say that this boar is an exceptionally good one. He is big and smooth and is siring an extra choice line of stock. The writer has seen this boar and we pronounce him good and well worth the price asked which is $75.00. Homestead readers that can use a good yearling boar should not hesitate on this fellow. Kindly notice the advertisement on page 32 and write Mr. Snyder at once.

Crees' Poland Chinas.

On page 38 C. W. Crees, Coon Rapids, Iowa, is advertising some splendid Poland China boars, and they have all been vaccinated with the simultaneous method, and are, therefore, immune. He showed at his county fair and got first on boar, first on sow any age or breed and this sow weighed 700 pounds. Mr. Crees has some excellent young boars for sale and a grand good yearling boar that is good enough to head any herd. Remember his boars are all immune. If you want one of these write him or go and see him. When corresponding with him kindly mention The Hometsead.

Save Money on Poland Chinas.

Readers of The Homestead will be able to effect a real saving on the purchase of a Poland China boar if they make their purchase of H. C. Meinhold, Stromsburg, Neb. Mr. Meinhold says that he is overstocked with big-boned, broad-backed Poland Chinas at present and he wishes to close out at least a part of the stock on hands. Spring boars, also spring and fall gilts, either open or will be bred for spring litters to good boars, and everything will be sold at real farmers' prices. Kindly notice the advertisement in this issue of The Homestead, and if interested write without delay. Mention The Homestead when you write. See page 39.

Marmion's Poland Chinas.

B. F. Marmion, Farmington, Iowa, is offering some of the biggest and best Poland Chinas that he has ever owned. They are the large, smooth, easy feeding kind that can be fed out at any age and be it a marketable condition. The pigs he is offering are largely of early farrow, one fall yearling by Pawnee Orange, by Big Orange, is just right for some farmer who wants to breed a large number of sows. This boar is a sure breeder of large litters. Mr. Marmion has some very good May boars just right for December use and if purchased soon the express charges would be very light. See page 32 and write Mr. Marmion your wants, mentioning the Homestead.

McDowell's Sale of Poland Chinas.

On November 1st, at the Vandebur Feed Barn, at Chariton, Iowa, E. E. McDowell, will make his first annual sale of big-type Poland Chinas and he will offer forty-five head. There will be thirty head of good spring boars and fifteen head of his choicest gilts. Mr. McDowell has been breeding Poland Chinas for a number of years and bought his foundation stock from the best big-type herds of the state. He is listing a very useful and a very good string of boars that will weigh from 200 to 225 and a few will touch the scales at 250 pounds. These have not crowded and yet they have been well-grown and you will find some good boars in his offering. They are sired by Big Special, a son of Crow's Special, one of the boars that made the Sefrit herd, and a number are sired by Smooth Wonder 3d. Most of the boars are sired by Big Special, and they are out of his best large-type sows. This boar, Big Special, is out of Katie Jones 2d, and she was out of that splendid brood sow, old Katie Jones. The gilts are just as good as the boars, and it will be a good place to buy a few of these. This sale will also be a good one to buy your boars as you can buy them at reasonable prices, inasmuch as this is his first public sale. Write for

the McDowell catalog and then go to the sale. Mention The Hometsead when writing for it. His advertisement appears on page 31.

Watchmakers in Demand.

To our readers who are interested in learning the watchmaker's trade we desire to call their attention to the advertisement of Stone's School of Watchmaking, 910 Globe Building, St. Paul, Minn., which appears on page 22 of this issue. This school promises positions to graduates. We suggest that our readers look up the advertisement and write for full information.

Lawler's Immune Poland Chinas.

Jas. Lawler, whose advertisement appears on page 30 has for sale a well-bred lot of Poland China boars, eight of which are of fall farrow and forty-two spring pigs. These carry strong infusions of the blood of the Miller and Mouw herds. Ther are the strictly big-type sorts, have size to back it up and quality enough to attract those who want good looks. For prices or additional information write to James Lawler, Clare, Iowa.

C. W. Hutchins Sale Called Off.

Owing to an outbreak of disease in his herd, C. W. Hutchins, Weeping Water, Neb., has called his sale off. His sale was billed for Oct. 27th, but will be postponed for some time. The herd has been vaccinated with the double serum treatment and if they come through all right, a sale will probably be held about the middle of November. Further announcements will appear in an early issue of The Homestead. This sale was of Poland Chinas.

C. H. Harper Buys a New Boar.

C. H. Harper, Benkleman, Neb., advises us that he has recently purchased a choice Poland China boar from the Thos. F. Miller herd at York. Mr. Harper maintains a good herd and is very careful in making selections of his breeding stock. The boar purchased is sired by Mouw's Black Orange, a boar that has few equals in the state today. This boar should make a valuable addition to Mr. Harper's good herd, and we feel sure that he will.

Duroc Jersey Boars.

Warren Hughes, Littleport, Iowa, is advertising March and April Duroc Jersey boars for sale, that are sired by Protection Medium by Chief Protection and Model Select by Chief Select. The dams are sired by Muncie Col. 2d, Sedmere Crimson Wonder and Dairy's Chief. Mr. Hughes will offer a few red gilts later on that will be bred to Gayno Again, 140963. Write your wants to Mr. Hughes, kindly mentioning The Homestead. See page 32.

Farming Without Horses.

This is what the corn-belt farmer will eventually do. The farm tractor will in time handle the work for which horses are now being used. In fact the tractor is taking the place of horses to a much larger degree every year. It can do the work of a number of horses, and is untiring regardless of the length of the day. It is also unmindful of heat and cold. On page 11 of this week's issue will be found an advertisement of the Waterloo Gasoline Engine Company, 179 W. 3d Ave., Waterloo, Iowa. They also manufacture smaller gasoline engines and cream separators. We would suggest that our readers look up the advertisement and write for further information to the address given.

Sanitary Barn Equipment.

New improvements are being brought out every year which save labor for the farmer. One which is meeting with a great deal of favorable comment is the James 2-in-1 Carrier, manufactured by the James Manufacturing Company, AU-98 Cane Street, Ft. Atkinson, Wis. A large advertisement for this concern appears on page 9 of this week's issue. They say of it: "This carrier has all the advantages of the rod track outside the barn. Stand at the barn door, give the carrier a shove, the carrier runs out, dumps at the desired point and returns automatically to the barn." This concern also manufactures stalls, stanchions, pens and barn ventilators. We suggest that our readers look up the advertisement and write for catalog.

C. W. Phillips' Poland China Sale.

C. W. Phillips, New Sharon, Iowa, has one of the best herds of big-type Poland Chinas to be found. On November 4th Mr. Phillips will sell at public auction thirty-five boars and five fall yearling sows. Five of the boars are fall yearlings and the balance spring pigs. Four of the fall yearlings are sired by Fesenmeyer's A Wonder, one of the most noted boars of the breed and out of a Mammoth King dam. Three of these boars are big, long, heavy-boned, smooth fellows and a breeder who wants a well-bred boar and a good boar cannot go wrong in attending this sale and buying one of these A Wonder boars or sending a bid on one. There is also a good fall yearling sired by the noted Big Orange and out of a dam by Big Sensation. Among the thirty spring boars is one sired by Long King Superior, Mr. Phillips' sensational two-year-old son of Long King and out of a dam by Guy's Prospect. This pig is an extra long, heavy-boned, good footed, smooth fellow and will make someone a great herd boar if properly developed. Some breeder who wants to develop his own herd boar should look after this pig. There are other good ones by Long King Superior, P's I. X. L. and a number by A. Wonder Again, Mr. Phillip's noted son of the great A Wonder. Charlie Phillips has held a number of sales and has raised a lot of good hogs, but this Homestead representative can frankly state that this is the best offering of boars Mr. Phillips has ever presented at public auction. For size, bone and quality they are a hard lot to beat. Carlos C. Palmer will attend this sale and will carefully look after any bids sent him in care of Mr. Phillips. See page 33. Mention The Homestead when writing for catalog.

The Value of a Good Sire.

The question is often asked, what is the value of a good sire? We are not trying to answer it here, but we will ask another question. What is the value of Good Knight, the Scotch Short-horn bull owned by H. H. Hess & Son, Surprise, Neb.? These gentlemen have sold all the bull calves by this sire that have dropped the past season for an average of $170, and all at less than a year old. True they have sold conservatively for the class of calves and $170 is not the world's record, but it represents easily a $100 per head net profit. We feel that Good Knight has added $50 to each calf sired by him, and he could sire forty calves a year without injuring him. It looks like his value would easily mount into the thousands; at any rate he is worth some money. Many of the bulls have gone to head the very best of herds and have been picked up right from the cows. They have been profitable for Hess & Son, and they should prove even more profitable for the new owners. These gentlemen have some Good Knight heifers that they would sell.

Blackburn's Duroc Jersey Sale.

As we have already mentioned in The Homestead a couple of weeks ago, J. R. Blackburn, Ord, Neb., will hold a sale of choice Duroc Jersey boars at his farm near Ord, on November 5th. This sale should be of more than ordinary importance, for the reason that it is made up almost entirely of the get of Crusader Col. and he was the 5th prize boar of the Nebraska State Fair this season. He was shown in a very strong class and well deserved the place that he got. Crusader Col. is sired by Proud Col., and he was champion at Sioux City a couple of years ago. Proud Col. was a litter mate to Freed's Col., the grand champion at Iowa State Fair a few years ago, and each of these boars has already sired a very fine lot of prize winners. There are some boars in this sale that look like they would be able to make a good, showing next season; in fact, if we were looking for a junior yearling prospect, we believe that this sale is where we would go to get a couple. We do not make this statement extravagantly, but with due regard for the opinion of those that might attend this sale in search of such stock. If you do not have the catalog, send for it immediately, and if unable to attend this sale, send bids to J. C. Price, representing The Homestead and your wants will be faithfully looked after. See advertisement on page 33.

Nelsons' Immune Poland Chinas at Auction.

On Friday, November 7th, S. A. Nelson & Sons will sell twenty-five strictly big-type Poland China boars. They are all immune, and every one by a noted herd boar. Several that are bred by Peter Mouw and sired by his herd boars, Chief Price and Adams Big Hal are included. Others are by Long King's Model, A Mastodon, Jumbo C., Hillcroft Giant and a few others. They are from a choice lot of sows. At the same farm and on the same day the above named gentlemen will also sell about fifty pedigreed Short-horns. A field note elsewhere in this paper, also the advertisement, tell much of the offering. Kindly send for the Poland China also the Short-horn catalog without delay, and when writing mention The Homestead. See advertisement on page 31.

Immune Duroc Boar Bargains.

J. E. Forke & Son, Malcolm, Neb., have a herd of very choice Duroc Jerseys, and they offer Homestead readers their pick of ten selected boars of their spring pig crop. These boars are all immune, and are big and well grown considering that they went through the disease about two months ago. The writer saw these boars a few days ago, and we wish to say that they are very choice, three or four really good enough for headers for the best herds. One very choice one is by Silver Chief 2d, another is by F. & S.'s Col., and still another is by Critic's Col. Another choice boar is by Uneeda Crimson Wonder and a show prospect is by Queen's Col. Mr. Forke states that he will close these boars out at farmers' prices as he wishes to dispose of them without delay. We would like to see some one looking for a good boar write these gentlemen, we are sure they would be pleased with a boar from here. Some choice gilts will be sold, and will be priced either open or bred to good boars. No need to hesitate on these Durocs, for they are good individuals, well bred and in good thrift. Order without delay, and mention The Homestead when you write. See advertisement on page 32.

E. Crabs' Durocs.

E. Crabs, Aledo, Illinois, has on hand, forty extra good Duroc Jersey boars of spring farrow for sale. They are the best lot of boars he has ever had on the farm and every buyer that visits his herd makes a purchase which speaks well for the quality of Mr. Crabs' Duroc Jerseys. He has a two-year-old son of Orion Chief that he purchased of Thos. Johnson & Son, that he will price for the next twenty days at $100. He is a well-built boar weighing around 600 pounds and has proven an extra breeder. Mr. Crabs has used this boar extensively in his herd and can show a large number of good pigs sired by him, which is his reason for disposing of the boar. This boar's dam is sired by Col. Gladness, a full brother to Prince of Cols. See page 37 and write Mr. Crabs your wants, mentioning The Homestead.

Immune Duroc Boars On Approval.

With this issue of The Homestead, F. C. Crocker, Filley, Neb., one of the best known swine raisers in the corn belt is starting an advertisement in which he offers the readers of The Homestead their choice of about 100 spring Duroc Jersey boars. These boars have all been given the double serum treatment and will be sent on approval to readers of this paper without a cent of money down. Mr. Crocker raises good hogs, the best that his long experience and sound judgment will enable him to produce and he sells these good hogs at a price that will please those that buy, hence he is not afraid to ship these boars to readers of The Homestead without a cent of money down. His plan is unique, but nevertheless, it is straight business. He raises hogs to sell, and he raises lots of them, maintaining right now and for several years past the largest herd of purebreds in Nebraska. They are grown in the best possible manner, and all that can be saved in the way of production is given to the buyer. Mr. Crocker must have a profit for growing them, and they would make him that on the market, but he wishes to sell the best of his crop as breeding stock, for the stockmen need them, and Mr. Crocker is in shape to supply that need. Sons of the most noted boars in use in the country are offered, in fact Mr. Crocker has always maintained the best lot of herd boars that money would secure, and their progeny are the sort offered. Kindly mention The Homestead and write at once for one of these selected boars. They should find homes mighty speedily, and they will. It will be good business judgment to order at once. Kindly mention The Homestead when you write.

Walter Johnson's Polled Durhams.

A good breeder of Polled Durham cattle is Walter Johnson, Dorchester, Neb., and he now has for sale a few very choice young bulls. This stock is well bred and comes of such pedigree that most breeders could use it in their herds. These bulls that are now offered are nice and thrifty, well grown and of the blocky order. Mr. Johnson is a practical farmer and stockman, and believes in growing all stock in a good manner, but pampers nothing. Hence, these bulls will go out and do good service in the average breeder's hands or may be carried to any state of fitting that the new owner would wish. When writing for prices, kindly mention The Homestead.

McCurdy's Giant Poland Chinas.

Wm. McCurdy, Tobias, Neb., owner of the Maple Grove Stock Farm, is naming special prices on a lot of his giant Poland China boars. Mr. McCurdy has a really good herd of Polands, one of the good herds of the southern part of the state, and as the corn crop is light in his section he is offering Homestead readers some distinct bargains in these giant boars. Nothing short of the very best has ever been good enough for him to put into his herd. He has bought a number from the herd of Walker & Sons, of Alexandria, Neb., and he always buys the tops. He is now pricing these spring boars at real farmers' prices and some of them are really choice. Kindly mention The Homestead and write him without delay. See advertisement on page 32.

Some Choice Boars at Special Prices.

W. J. Eavey, Geneva, Neb., is offering some very choice Poland China boars at prices that should move them at once. Mr. Eavey raised the biggest and best lot of Poland China boars this season that he has ever raised. He has culled the bunch close and still has about thirty that are mighty fine. These boars should go to good herds of pure breds, but at the prices asked, no farmer can afford to use a grade. They will soon be worth on the market the prices asked for them and we would urge Homestead readers to order them immediately. There are still a lot of good ones left, and they are nearly all by the great breeding boar, Blue Ribbon Hastings and he is by a son of Jumbo Jr., the noted boar in the Albert Smith & Sons herd. Write about these boars without delay. See page 39.

White-Agan Poland China Sale.

On November 1st, at Malvern, Iowa, Geo. H. White, of Malvern, and W. E. Agan, of Silver City, will sell forty head of Poland China boars and sows and they are selling some splendid things in this sale. Mr. White is selling his splendid herd boar, Big Mastodon, in the sale and he is a boar that has done excellent service in his herd. He is a son of B's Mastodon, that did such excellent service in the W. H. Barr herd, and he is out of a dam by Pawnee Look. Most of the boars and the gilts that Mr. White will sell in this sale will be sired by this boar, while most of the boars and gilts that Mr. Agan will sell will be sired by Victor Lad, a son of the noted big Victor. This boar has been used with the best of success in his herd and you will like his breeding when you see the boars and the sows that he is selling in this sale. There are some very good February and March litters in this sale that have plenty of size, and ample bone, and you can very easily find some good herd-boar material among them. Write G. H. White, Malvern, Iowa, or W. E.

Worms Will Get Your Hogs If You Don't Let Me Kill The Worms

Fully nine-tenths of all hog losses are caused by worms. These parasites sap the very life blood of your hogs, rob them of nourishment, and so weaken them that they are easy victims of cholera or any other swine disease. Get your hogs worm-free and keep their digestive organs in proper working order and they will be **Cholera proof.**

I'll Rid Your Hogs of Worms!

Feed **Columbian Stock Powders** to your hogs and inside of 12 hours you will **see** the dead worms that have been expelled. These powders are not a food but a highly efficient **medicated** preparation that not only **kills** but also **expels** all worms. These are the **original** Stock Powders. They have been on the market for the past 25 years and all that time they have been recognized as **best** by the largest, most progressive stock raisers of the country. They will put a speedy end to all digestive troubles in hogs, sharpen the appetite—keep the animals on their feed—so strengthen the digestive system that there is absolutely no waste of food—greatly shorten the fattening period with 25 per cent less feed.

BEST FOR BROOD SOWS Feed **Columbian Stock Powders** to your brood sows and see the strong thrifty litters they farrow. Keeps the sows in finest condition, strong, healthy, free from fever and insures an abundant flow of pure milk.

"Hogs Dying By Hundreds—COLUMBIAN Saved Ours"

"Please ship F. W. Diehl at Shannon, Ill., 500 lbs. Columbian Stock Powders in 250-lb. lots; and Geo. Diehl, Milledgeville, Ill., 300 lbs. in 100-lb. lots. Please RUSH the above orders as the hog cholera is something fierce all over the neighborhood. Hogs are sick and dying by hundreds. Ours were sick but Columbian saved them.
Yours truly, DIEHL BROS., Milledgeville, Ill.

90 Days Use Before You Pay a Cent

I don't want you to pay me a cent until I positively prove to you that **Columbian Stock Powders** are the quickest, surest and biggest profit makers you ever tried. Just mail coupon, stating how many hogs you are feeding and I'll make a free trial offer that gives you 90 days' feeding before paying a cent.

Columbian Self Feeder FREE!

Regular price is $5; but if you will write or mail the coupon at once, I will tell you how to get one **FREE.**

Free Book Most interesting and instructive book on stock raising ever published. Finely illustrated. Write for your free copy.

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NEXT WEEK'S SALE PROGRAM

Monday, Oct. 27	Duroc Jerseys, J. P. Peterson, Herman, Neb.
Tuesday, Oct. 28	Poland Chinas, O. J. McCullough, Central City, Neb.
Wednesday, Oct. 29	Duroc Jerseys, Economy Stock Farm, Shenandoah, Ia.
Thursday, October 30	Percheron Horses, A. G. Thurman, Blanchard, Iowa. Shire Horses, A. G. Thurman, Blanchard, Iowa. Short-horns, A. G. Thurman, Blanchard, Iowa.
Saturday, November 1	Poland Chinas, Geo. H. White and W. E. Agan, Malvern, Iowa. Poland Chinas, E. E. McDowell, Chariton, Iowa.

Agan, Silver City, Iowa, for a copy of their catalog and mention The Homestead. Then make it a point to attend their sale. See this page.

Quire's Hampshire Swine.

F. T. Quire, Sully, Iowa, is advertising some extra good Hampshire boars for sale on page 32. They are spring pigs weighing from 160 to 175 pounds and are of the same blood lines as his silver cup winners at the Iowa State Fair in 1912. All have received the double treatment and are immune from cholera. These pigs are in nice condition, well belted and are guaranteed breeders. If you want a good Hampshire boar, write Mr. Quire mentioning The Homestead. He is pricing these pigs at $25 each.

Economy Stock Farm Sale.

One of the Duroc-Jersey sales that is attracting the attention of the breeders throughout the West at the present time is that of the Economy Stock Farm, which will be held at Shenandoah, Iowa, on October 29th. There are several reasons why this sale is one that you should attend. First and foremost, they will sell five of their very best sows in this sale that will be sold with a breeding privilege to Big Wonder, their noted senior and grand champion boar at the Iowa State Fair this fall. This should be attraction enough for one sale but that is not all they have in their sale by any means. They are selling their splendid herd boar Highland Chief, and he is one of the great breeding boars today of this breed. He is a son of the great Helen's Chief and he has been used with the best of success in this herd. Another good boar they are selling is Top Col., and he is one of the most intensely bred Col. boars that will be found in the West. They are selling some unusually good fall boars in this sale that are sired by Highland Chief, and mostly any one of these will be good enough to head any of our good herds. These fall boars are out of daughters of Defender, Golden Col., King Pal's Last, Harding's King of Cols., H. R.'s Top Col., and other noted boars. A couple of these are sired by Captain Gano, a son of old Col. Gano. Some splendid spring boars in this sale will be sire by Chief's Col., and a few by the other boars. Among the good sows they are selling that will be offered with a breeding privilege to Big Wonder are daughters of King The Col., Col. Gano, Defender King and Highland Chief. One of these is the 3d prize Highland Chief sow they showed at Des Moines and she is a good one. In fact there are many things in this sale that will make it worthy of the attention of the Duroc-Jersey breeders. Write for their catalog at once and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of the above firm will be attended to on day of sale. See page 37.

Isaac's Big-type Duroc Sale.

One of the great sales of large-type Duroc Jerseys that is going to attract attention this week will be that of T. H. & J. D. Isaac, at Red Oak, Iowa, on Saturday, October 25th. These are the men that are the original big-type Duroc-Jersey breeders of the West and they are certainly breeding them big. They not only breed them large but they grow them large and they are selling eighty-five head of the largest boars and gilts that you will see this year. These are sired by Jim's Mogul, Great Crimson, Chief's Crimson, Big Crimson, Jumbo Critic, Climax 3d and a number of other big boars that have been making a reputation along big-type lines. This sale will be held in town at Red Oak, Iowa, on Saturday, October 25th, and if you want a large Duroc Jersey boar make it a point to attend their sale.

Choice Oxford Ewes for Sale.

Geo. W. Damrow, Lincoln, Neb., is offering Homestead readers some excellent Oxford ewes, many of them of the best prize-winning blood and all of excellent conformation. They are being bred to one of the best Oxford rams in the entire West. He was imported by one of the best judges of sheep in this country and was sold to Mr. Damrow for a long price, probably as good as has been paid in the West for an Oxford in some time. Ewes bred to this kind of a ram should be mighty valuable, and those that feel like starting a flock for their farms should write Mr. Damrow immediately, and by securing a pair or more of these bred ewes a good herd can be founded and without a large outlay of money. Do not overlook this opportunity, but write without delay and mention The Homestead when doing so. See advertisement on page 29.

Fain's Immune Duroc Boars.

In a recent letter from H. S. Fain, Emmetsburg, Iowa, he says: "I wish you would say to Homestead readers that I have vaccinated my entire herd with the double treatment and to satisfy myself I have distributed several boars on farms where they had the cholera and they came through all right and lived right through it. I have decided to sell my fall and spring boars on the following terms: I will guarantee every hog to live thirty days from date, it matters not whether they have the cholera where he goes or not, and if the hog dies within the thirty days I will refund the money. If any of The Homestead readers want to look up my guarantee all they have to do is to write the Emmetsburg National Bank. My spring boars will weigh 200 and my fall boars 400 pounds. Now if your readers want to do business and they want boars with a guarantee behind them that does guarantee then let them write me and send an order for one of these boars. See advertisement on page 37.

Funke Offers His Herd of Scotch Shorthorns.

One of the greatest opportunities we know of to buy a really high-class herd of Scotch Short-horns is offered by Henry Funke, Greenfield, Iowa, on page 30. This is one of the very best herds we know of in the state, and the entire lot are Scotch cattle and of the very best breeding. Mr. Funke has sold his farm and must sell these cattle, otherwise they would never be sold. There are twenty-four head in the herd, among which is one herd bull purchased from George Burge, eleven choice cows, three yearling heifers, nine calves and two cows that are right at their calving. The herd bull is Excelsior 370180, and he is a son of Choice Sultan and out of a dam by Hopeful Knight, his granddam being the noted show bull, Money Musk. He is a yearling and a good bull and will be sold with the rest of the cattle. Among the females are four Lavenders, six Violet Buds, one Princess Royal, one Gwendoline and one Aurora. Included will be the great cow Lavender Bud, a cow that he bought at the C. C. Norton sale at $625. She is a daughter of the noted bull Banker's Victor and is out of a daughter by Imp. Calamis. She is regarded as being one of the very best Lavender cows today in the West. Her three-year-old heifer and a yearling heifer is also in the herd and she also has a good bull calf at foot. Another good cow is Honeysuckle 3d, a daughter of Cumberland Chief that headed the Norton herd and her dam is Imp. Honeycomb 5th, one of the greatest cows that C. C. Norton ever owned. She has a good heifer calf at foot and she is rebred. Queen Gloster is a richly-bred Duchess of Gloster cow and she has a heifer calf at foot and she is rebred. She also has a yearling heifer in the herd. Gay Princess is a Princess Royal and she is the dam of one of the best bulls he raised this year. There are a number of other splendid cows and heifers in the herd that are bred along the very same lines and we will say to the man that wants to get hold of a select herd of Scotch Shorthorns that here is one of the best opportunities that we know of. This herd was started without regard to expense and the very best cattle secured. Not a poor one in the herd. It is the only instance we know of where such a richly bred herd can be secured at private treaty. Write Henry Funke, Greenfield, Iowa, about these cattle at once and if you are interested it will pay you to go immediately and see him. When writing him kindly mention The Homestead.

Cockerton's Big-Type Boars.

On page 32 James Cockerton, Whiting, Iowa, starts his big-type Poland China boar advertisement and he is offering twenty head of large, stretchy, big-boned, spring boars for sale. These are sired by Orange Jumbo and Cloverdale Wonder, and they are out of his largest and his best sows. He also offers a splendid spring yearling boar for sale that is a son of Big Wonder, a son of Smooth Wonder 2d, and his dam is a daughter of old Long Chief. Mr. Cockerton says this boar will easily make a 1,000-pound boar and the first check for $60 gets him. The Poland China breeder who is looking for a good herd boar should get busy and buy this boar before it is too late. The younger boars he is pricing at $30 to $40 and they are splendid bargains at those figures. Write Mr. Cockerton at once about these boars and mention The Homestead.

Closing Out Milking Short-horns.

On November 20th, A. H. Metier, Weldon, Iowa, will make a closing-out sale of forty-five head of Bates-bred Short-horns, of the best known milking strains. The Metier herd is one of the oldest herds in the state of Iowa and for over thirty years has been bred in the blood of the original Bates strains, known as the most famous of all the milking Short-horns. Included in this sale will be four head of Oxford Duchesses and a number of richly-bred Waterloos. These are strictly pure Bates cattle, and belong to the famous Oxfords and Waterloos, that in early times were the highest priced cattle known to this great breed. Mr. Metier is also listing twenty head of Golden Pippins, or more familiarly known as Julia Wards. This particular strain has been in the Metier herd since its foundation by the elder Mr. Metier some thirty-five or forty years ago and they have been among the best cattle they have ever bred. There will be some splendid young heifers in this sale that are unusually choice. He is also selling his splendid herd bull, Arabella's Crescent Knight, a richly-bred Scotch bull, and a most excellent breeder. He is a roan in color and is a son of Imp. Crescent Knight, a bull formerly used by the Cargills, of Canada, and later by R. O. Metier, of Lucas, Iowa. This is a splendid bull, and when you see the young heifers and young bulls that are sired by him in this sale, you will admit of his great worth as a breeding bull. Drop Mr. Metier a card and ask him to place your name on his list for a catalog and when writing him kindly mention The Homestead.

Hollingshead's Great Sale.

On November 11th, at Chariton, Iowa, R. C. Hollingshead, of Russell, Iowa, will make a public sale of sixty head of large-type Poland Chinas, and he will offer one of the greatest bunches of Poland Chinas that have gone through a sale ring this fall. We have passed upon many of the different offerings this year, but we want to say to readers of this paper that you will see one of the best offerings in this sale that you have had the opportunity of passing on this season. There will be sixteen head of spring and thirteen head of fall boars in this sale and they are sire by two boars, Big Combination, and Valley Chief. There will be thirty-one head of fall and spring sows in this sale and they will be sired by the same boars. Of the thirteen fall boars that he will sell in this sale, we will say they are the largest we have seen in our travels this fall. To those breeders and those farmers who are wanting size they will certainly get it in this bunch of boars. When it comes to length and bone, you will all have to take off your hats to them. They will be out of daughters of Wide Valley, Chief Girl, Nebraska Girl, Iowa Girl 2d, Big Sarah, Wonder Girl and Our Standard, sows that will hold their own in any herd and as large as any sows to be found today in the state or the West. He is selling some corking good spring boars in this sale and among these are some of the best we have seen. Among these is a February boar by Big Combination and out of the large sow. Wide Valley, that is about as good as you will see this fall. We have seen boars that have sold for a lot of money this fall that were not near as good as this pig and he is going to make some breeder a good herd boar. Another good February boar is sired by Valley Chief and he is out of Iowa Girl 2d. There are six head of these boars in the sale and they are all good, and if a man cannot find a herd boar among this bunch he will be hard to please. Just a word about the fall sows and the spring gilts that he is selling in this sale. They are certainly as good as we have seen and it will be one of the best places we know of to buy sows that will make great herd sows. These sows are in excellent shape, are well grown out and are right to go on and make great brood sows. In fact, this offering is one that will surprise you and if you have not bought your boar as yet, or,

Makes Lame Horses Sound

Cures All Kinds of Lameness, Quickly, Positively, Permanently.

Mack's $1,000 Spavin Remedy is absolutely guaranteed to cure Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boil, Sprung Knee, Lacerated and Ruptured Tendons, Sweeny and all other forms of lameness affecting a horse, or your

money back in a jiffy. It's a powerful remedy that goes right to the bottom of the trouble and cures the lameness in just a few days, and the animal may be worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair.

Ask your druggist for Mack's $1,000 Spavin Remedy—if he cannot supply you, write direct to us. Ask for our valuable Free Book, "Horse Sense" No. 8.

If you are not positive as to the cause of your horse's lameness, mark on horse above where lameness occurs and tell us how it affects his gait, also tell age of animal. Our graduate veterinarian will diagnose the trouble and tell you how to cure it. This service is free.

Price $5.00 per bottle and worth it.
McKallor Drug Co., Binghamton, N. Y.

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Shores REMEDIES
EXTRACTS SPICES

Wanted

Farmer or Farmer's Son

with rig in every County to introduce and sell Family and Veterinary Remedies, Extracts and Spices. Fine pay. One man made $90 one week. We mean business and want a man in your County. Write us.

Shores-Mueller Co., Dept. 26, Cedar Rapids, Iowa

Hog Cholera

Can be prevented and stoped. Recent tests have proven the efficiency of a treatment which immunes well hogs, and saves sick hogs. Death to hog worms. Any one can use it. $5 case treats 40 hogs. Book and particulars free. Agents wanted. DR. D. C. SNODDY CO., Dept. O, Nashville, Tenn

BREEDERS' HIGH-CLASS

ABERDEEN ANGUS

AT AUCTION

UNION STOCK YARDS PAVILION SOUTH OMAHA, NEBRASKA,

TUESDAY, NOVEMBER 4, 1913

60 HEAD, consisting of 20 bulls and 40 cows and heifers, all females safely settled in calf or with calves at foot. They are of the most fashionable families, Blackbird, Trojan Erica, Pride of Aberdeen, Queen Mother and other popular families. There has probably been no sale this year that will show more bulls of the high-class, herd-heading kind than this sale. They are bred in the purple and their individuality is such that they will please. Whoever is in the market for a top-notcher Aberdeen Angus bull should attend this sale. This lot of bulls are right from every viewpoint. They are from 12 to 24 months old, have extraordinary scale, with plenty of quality, low-down, blocky chunks, the popular type. Every one will sire the market topper steer. The cows and heifers cataloged for this sale are the very tops of S. Melvin's herd. Every one of them was bred by him. They are splendid individuals and in excellent condition to breed on and make money rapidly. They are sired by the very best bulls the breed has ever produced. They are teeming with the best and highest priced blood that is known to the breed. Everyone who is in the market for good cattle will be pleased with this offering if they will only come out sale day and examine them. Send for a catalog. Mention The Homestead and address

M. A JUDY, Sale Manager, WEST LEBANON, INDIANA

COL. SILAS IGO, Auctioneer.

BIG-TYPE POLAND CHINAS

Malvern, Iowa, Nov. 1, '13

40 HEAD. BOARS AND SOWS 40

WE are selling 40 head of splendid boars and sows in this sale that are sired by **Big Mastodon,** a son of B.'s Mastodon, and **Victor Lad,** a son of Big Victor. If you want a good, big, stretchy boar or a few good sows, then come to our sale. We are also selling the splendid herd boar, **Big Mastodon,** that will be a bargain for somebody. Write for our catalog and be with us on sale day. Colonel Talbott, Auctioneer. Address

GEO. H. WHITE, Emerson, Ia. W. E. AGAN, Silver City, Iowa

if you want some really choice sows, here will be a most excellent place to buy them. Write Mr. Hollingshead at Russell, Iowa, for a copy of his catalog and then remember that the sale will be held at Charlton, Iowa, on November 11th. Bids sent to M. T. White of The Homestead in care of Mr. Hollingshead will be attended to on day of sale. When writing for catalog kindly mention The Homestead and above all things make it a point to attend this sale if you possibly can. See advertisement on page 30.

Deigan's Immune Poland Boars.

We wish to call special attention to the fact that the Poland China boars that are being offered by W. H. Deigan, Raymond, Neb., are immune, having been given the double serum treatment early in the fall, and are now in the finest sort of shape. Mr. Deigan is the man that bred Sampson, the boar that was used with such success in the Shattuck herd at Hastings, Neb. Mr. Deigan kept Herod, and has used Herod 2d and many of the pigs are by him. This stuff is extra heavy boned and good footed. A couple of litters of pigs bred by Peter Mouw are also on the farm, and they are the making of big hogs too, but some of these other boars are headers for the very best herds in the country. We believe that Homestead readers looking for the very best will find what they want here. Kindly mention The Homestead, and write at once. These hogs are worth looking after. See page 32.

Miller's Poland China Boars.

Probably no herd in the country has been more persistently bred for size than has the herd owned by Thos. F. Miller, York, Neb., and right now choice boars, bred for size and that have size and a lot of it are for sale. They have also been immuned with the double serum treatment and are guaranteed to please. The writer is familiar with this herd and we do not hesitate to recommend these boars. Leading breeders of the country have already purchased herd headers from here, and got good selections, but many good judges would have selected others than those taken, as there are so many good ones. Mr. Miller has two really great herd boars on his farm and the most of these boars are sired by them. One is a son of Long Chief 2d and the other is Mouw's Black Orange. This latter boar we believe is as good as we ever saw from the noted Mouw herd. When we first saw him last spring we thought that he was very near the perfect big Poland China. Write Mr. Miller for prices on this stock immediately, and when doing so kindly mention The Homestead.

Peterson's Immune Duroc Sale.

One of the Duroc-Jersey sales that will attract attention this fall will be that of J. P. Peterson, at Herman, Neb., on October 27th. It will be particularly attractive because the entire offering has been vaccinated and will therefore be immune, and this is something that is going to attract many of the farmers and breeders throughout the West. Pete is selling some choice things in this sale and it is possibly the very best offering he has ever sold since he engaged in the business. He is selling ten splendid fall and twenty spring boars and among these are some that will do to head our best herds. In fact he is selling some of the best pigs that have been listed in a western sale this fall. He is selling some good sows with litters at side and some very excellent spring gilts. We called particular attention to his offspring in last week's Homestead and we now want you to write for his catalog and then be sure to attend his sale. M. T. White will represent The Homestead at the Peterson sale and if you are going to want an immune boar send him a bid and he will take care of your interests on day of sale.

Briggs & Sons Immune Duroc Boars.

With this issue of The Homestead, Geo. Briggs & Sons, Clay Center, Neb., are starting an advertisement in which they offer readers of this paper an opportunity to get an extra choice Duroc Jersey boar, of as good breeding as is possible to find, from one of the best and oldest established herds in the entire country and cholera immune with the double serum treatment, also at a price that one can really afford. These gentlemen maintain one of the largest herds in the entire country, and they practice culling their stock closely, as they need a lot of feeding hogs anyway, and for this reason, none but the very best are offered for sale as breeding stock. The writer is thoroughly familiar with this herd, and we want to say that one of the best herds of sows of which we know is on this farm, and the herd boars are also of exceptionally high merit. The herd boars include Lincoln Wonder a son of Ohio Chief and out of a daughter of Crimson Wonder. Another boar is Crimson Wonder 4th and he was the first prize junior yearling boar at Lincoln either in 1910 or 1911. He was sold to these gentlemen in Mr. Widle's sale that fall for $350, the highest price paid in the state that season. This boar is a good breeder and a remarkable individual Another boar is Cleatham's Pride. He is by Crimson Wonder 3d and out of the great producing sow, Model D. 2d. This boar is an extra good sire and was second at Lincoln one year and 3d another year. Sill another boar is Queen's Crimson by Crimson Wonder Again. Queen's Crimson is a litter mate to Crimson of Crimson Wonder owned by H. Wernimont, and they are really two excellent boars, regarded as such by all the best breeders and judges, yet neither of them has ever been able to win what was justly due them in the show rings. Still another boar, one of the best that George has ever bred is Belle Wonder. He is the sire of some of the boars now being offered. We want Homestead readers to consider the stock offered by Briggs & Sons, and write them if interested. Mention The Homestead. See page 32.

Watson, Woods Bros. & Kelley's New Horses.

A few days ago Mr. Kelley, of the firm of Watson, Woods Bros. & Kelley, arrived at the company's barns at Lincoln, Neb., with one of the best shipments of horses that these gentlemen have brought over in recent years. These horses were all personally selected by Mr. Kelley, a past master, when it comes to picking the good ones. The shipment is made up of Shires, Percherons and Belgians. They are of the very highest order and all arrived in good shape. These gentlemen will name close prices on this stock to move them quickly and we would suggest that Homestead readers make a selection from this shipment as early as possible, for to do so will be to effect a substantial saving. This firm has a reputation for good horses that is world wide, and the fact that a stallion has been purchased from this firm will aid the stallioner to secure business next season. Kindly write these gentlemen without delay, and when doing so be sure to mention The Homestead. Address Watson, Woods Bros. & Kelley, Lincoln, Neb.

S. W. Swanson's Duroc Sale.

On November 5th, S. W. Swanson, Stanton, Iowa, will make his annual public sale of fifty head of fall and spring Duroc-Jersey boars, and he is holding this sale at Red Oak, Iowa, where railroad connections will be better. Mr. Swanson is one of the oldest breeders in southern Iowa and in his time he has bought some of the very best things that have been offered in the best public sales. He is selling possibly the best lot of boars that he has ever sold since he has been making public sales and the breeding that he will offer is the very best. There will be fourteen head of fall boars in this sale and they will be sired by Low Col., King Willetta and Model King, the latter being the greatest son of Hogate's Model, and he has ben in service in this herd for a number of years. The spring boars will be sired by such noted boars as Cherry Chief and the grand champion boar Crimson Wonder Again, as well as a number by other good boars. He is selling three good boars in this sale that are sired by Crimson Wonder Again and are out of a Proud Col. sow. He will also sell two good boars that are sired by the great boar, Cherry Chief, and these are also out of a Proud Col. sow. He is selling some very excellent boars at this sale that are sired by Model King and other boars. It will be a good place to buy your boar and the time will be right to get them. Write S. W. Swanson, Stanton, Iowa, for a copy of his catalog and kindly remember the sale will be held at Red Oak. Kindly mention The Homestead when writing for catalog. See page 33.

L. B. Williams & Sons' Sale.

One of the large-type breeders of Poland Chinas that always comes back is the firm of L. B. Williams & Sons, Villisca, Iowa, who make a fall sale at Sciola, Iowa, on November 6th. This herd has been one of the old and original large-typed Poland China herds in southern Iowa and for the past twenty years they have been breeding this kind of Poland Chinas. When many of the others were breeding the little fellows the Williamses were breeding the larger type of Polands and they have lived long enough to see the most of the breeders come their way. They are going to offer fifty head in their coming sale and they will have a nice offering that the breeders will appreciate. They had a good bunch of boars last year, but we think they will sell a better bunch this time. There will be thirty-five head of these in the sale, among which will be twenty-five spring and ten fall boars, and six fall sows and eight gilts. The spring boars are sired by W's Quality, a son of the great Blue Valley Quality; Orphan Wonder, a son of The Big Orphan; Big Tom Jr., a son of the prize-winning boar, Big Tom; and a few by Big Orient. The fall boars are sired by W's Quality, Orphan Wonder and their old boar Surprise All. The sows that they are selling are sired by W's Quality, Orphan Wonder and one good tried sow, a daughter of the well-known boar Big Wonder. There will be two large fall boars in the sale of Orphan Wonder, and these are out of the Big Wonder sow that will be sold in the sale. These will make splendid herd boars and should be sought after by some man wanting a herd boar. Nos. 1, 2 and 3 are good spring boars and they are sired by W's Quality and are out of a sow called Rosalind by Victor Hadley and he was by the well-known King's Hadley. No. 4 is a gilt of this same litter and these are very choice. No. 5 is a February boar by the same sire and out of a daughter of old Extended Jr., that was formerly one of the best breeding boars in southern Iowa. These are good enough to go anywhere. There are two good boars and two choice spring gilts by Orphan Wonder and out of Pawnee Lass by old Pawnee Nelson that came the latter part of February and you can just put it down that these are good. Then there are two good boars by Big Tom Jr., and out of a daughter of New Tecumseh that will be worth getting your eye on when you go to the sale, and three February boars by W's Quality and out of Abbie by Big Wonder that will make choice herd boars. There are a number of other good boars in this sale that are equally as good as those we have mentioned. Six fall sows and a number of good spring gilts make up the list and it will be a sale that will interest you if you are going to be on the market for some large-type Poland China boars or sows. Write for their catalog and mention The Homestead. M. T. White will represent this paper at the sale and will care for bids sent in his care. See page 33.

The Gibbs Short-horn Sale.

On November 19th C. E. Gibbs, Klemme, Iowa, will make a public sale of fifty head of Scotch and Scotch-topped Short-horns, and it will be one of the best offerings that will be sold in northern Iowa this fall. There will be thirty-four cows and heifers and sixteen head of bulls. Among these bulls will be the splendid Scotch bull Pride Goods, a son of the great Merry Goods. This is a pure white bull and he is a richly-bred Cruickshank Secret. He is just such a bull as should attract the attention of the best breeders who are going to want a bull to place at the head of their herd. He will also sell a number of splendid young bulls in this sale that will meet favor with those who are going to want a bull this fall. Drop Mr. Gibbs a postal card and have him place your name on his mailing list for catalog and when writing him kindly mention The Homestead.

The Bushnell Horse Show.

The sixth annual horse show at Bushnell, Ill., October 16th and 17th, ran afoul of the weather man, who pulled his worst brand for the first day, but did better for the closing day of the show, and contented himself with producing a raw, cold wind, but without the added discomfort of the rain that prevailed on the opening day. The first day's attendance was small, but fully ten thousand people faced the discomforts of the second day, and were well repaid, for the show was the best that has yet been staged at Bushnell. The entry list numbered nearly 700 head of horses, includinig not only the usual strong local displays, but the entries of a number of horsemen from a distance as well. No horse show of the character of the Bushnell exhibit can in any way approach it, either in magnitude of display of equine stock or in amount of prize money and number of silver plates and cups, the latter being contributed by both English and American enthusiasts. It has burst the boundaries of the local horse show class, and becomes a state-wide proposition. At no show given within the borders of Illinois, with the exception of the International Live Stock Exposition and the Illinois State Fair, is so good a horse show seen, and in many respects the Bushnell exhibition outclasses the state fair. To J. H. Truman, manager of the Pioneer Stud Farm, more than to any other one man, is due the success of this enterprise. He has been ably seconded all through by the business men of Bushnell, who have contributed liberally of their time and money to make the affair what it has become, the biggest thing of the kind in the country. Not only was every class well filled this year, but there was a noticeable improvement in the quality of the animals shown, strong evidence that the show is having a most excellent effect on the farmers of western Illinois, and causing them to each year produce a better class of stock. The rivalry is of the keenest sort, and ribbons of the Bushnell show are as eagerly sought after as are those of the larger shows, and the fact that many winners at this show have gone on to honors at the International will give some idea of the class of horses exhibited, especially when one takes into consideration the fact that all importers are barred from showing at Bushnell. There is nothing of a commercial feature connected with the Bushnell show, No entry fees are charged, and the show is given on the streets of the town, so there is no admission fees of any nature. Each year has shown a marked advancement in the show. The displays have been larger, the quality of the animals better and the range of territory from which exhibitors have been drawn has widened each year, until this year when horses were present from all

H. O. Williamson's Great Offering

Vaccinated and Immune

BIG-TYPE POLAND CHINAS

HERMAN, NEBRASKA, NOV. 5, 1913

50 Head: 14 spring boars, 7 sows with litters, 6 fall sows, 3 yearling sows, 20 gilts.

INCLUDED will be the splendid yearling boar, **Great Mastiff 61780**, a son of the champion King Mastiff. I am selling fourteen big, lusty, spring boars sired by **Great Mastiff, Hadley Golddust, Long Chief Jr.,** and **Big Tecumseh;** seven of my best sows go in with litter at side, among which is a daughter of **Big Columbus, Long Prospect, Dutch Pan, Grand Hadley, Ponder Hadley** and **A's Victor;** six fall sows and twenty choice gilts. If you want them large and good come and see my offering. Col. H. S. Duncan, auctioneer. M. T. White field man for The Homestead Catalog now ready, when writing for it mention this paper. Address

H. O. WILLIAMSON, HERMAN, NEB.

SHEEP.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - - LOGAN, IOWA

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Williard Miller, R. 2, Anita, Iowa.

REGISTERED SHROPSHIRE RAMS. All ages, best breeding. Express prepaid. Address E. N. Sterner, Agency, Iowa.

SHROPSHIRE RAMS Imported and home bred. Address James H. Heald, Tipton, Iowa

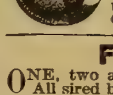
I SHIP C. O. D.

FOR distance of 100 miles, choice registered Shropshire sheep; yearling ewes, $12.50; 2, 3 and 4 year old ewes, $10.50; 5 and 6 year old ewes, $9; ewe lambs, $9. This special low price for thirty days, ending November 7th. Are of mutton type and in good condition. Crated and recorded in your name free. Some ewes bred for early lambs. Addres
GLENN F. RIDER, FARMINGTON, IOWA

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

POLLED DELAINE MERINO SHEEP
EXTRA large rams, also choice young ewes at ½ price.
POLAND CHINA HOGS, BIG-TYPE
Fall and spring boars at $18.00 to $20.00. Rams same prices. Order now and get the best.
F. F. & V. G. Warner - Bloomfield, Iowa



SHROPSHIRES
of the right breeding.
60 imported and home-bred rams. 40 ram lambs and ewes to match, of the Rector famiy. C. D. NICHOLS LIVE STOCK CO., Cresco, Ia.

FORTY GOOD

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK, BELMOND, IA.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. 11 choice yearling rams, 4 two-year-old ram, and some ram lambs. They are heavy boned and well wooled. Low prices to close out. I am about sold out of ewes.
EARL BLOOM - BRIDGEWATER, IOWA

Registered Oxfords

AND Shropshire yearling rams and ram lambs of the best of breeding. Priced right. Write or come.
W. H. HUNT & SON - GALT, ILL.

SHROPSHIRE RAMS AND EWES

YEARLING, two-year-old and three-year-old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

Registered Shropshires

34 YEARLINGS and twenty lamb rams. Call on or address, mentioning The Homestead.
S. Bennington's Sons, R. 2, Elkader, Iowa

FOREST HILL STOCK FARM

OFFERS at bargain prices. Shropshires, both sexes of all ages, quality and breeding good. Will price ewes in lots at prices to suit all. Call or write
KAUFMANN BROS., R. 1, MOSCOW, IA.

H. D. DE KALB'S GREAT SALE

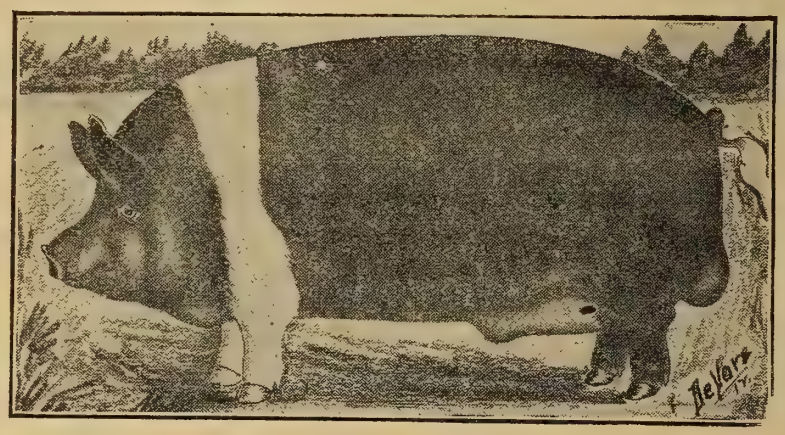
HAMPSHIRE BOARS

60 ——HEAD—— 60

COUNCIL BLUFFS, IOWA, NOV. 4, 1913

AT KIEL'S SALE BARN

The Grandest Lot of Boars Ever Listed for a Public Sale



DeKalb's King 50th, a Sensational Herd Boar Proposition to Be Sold in This Sale.

I AM selling **2 two-year-old boars,** both used with success in my herd; **35 of the greatest fall boars ever sold at public or private sale,** and **23 choice spring boars.** Included will be **DeKalb's King 50th,** a sensational young boar sired by the renowned Major, and out of Nellie Aylor's Best, one of the greatest sows in my herd. **Twenty-five** head of fall boars in my sale are sired by my world's famous boar, **Major,** and there will be some sensational herd boars among these. Write for my great catalog and kindly mention The Homestead. Address

H. D. DE KALB - - - DE KALB, IOWA

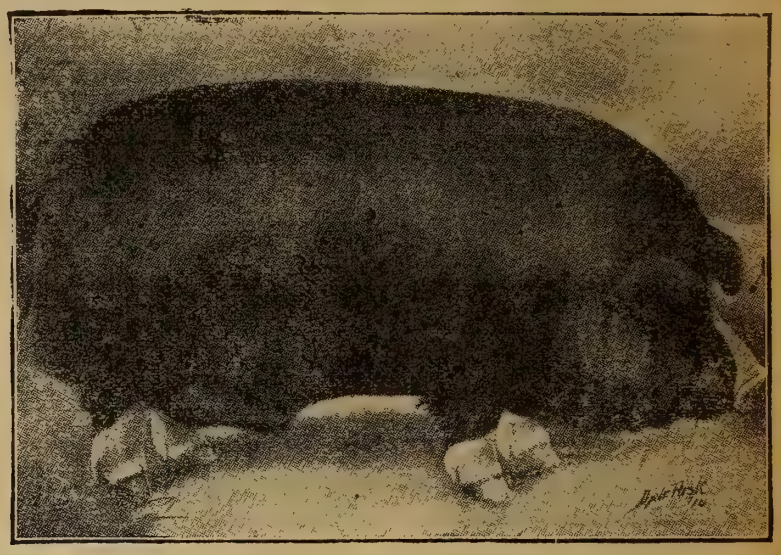
Cols. H. S. Duncan and N. G. Kraschel, auctioneers. Bids sent to M. T. White representing this paper in care of H. D. DeKalb, care Kiel Hotel, Council Bluffs, Iowa, will be properly attended to on day of sale.

The Last Opportunity of the Season to Buy Your Big-Type Boars and Sows at Public Sale

R. C. Hollingshead's Great Sale

Large-Type Poland Chinas

Chariton, Iowa, Tuesday, Nov. 11, 1913



60 Head---16 Spring Boars, 13 Fall Boars, 21 Fall Sows, 10 Spring Gilts 60

DON'T fail to attend my sale, as I am selling one of the greatest offerings of the year. There is no better in breeding or individual merit. These will be sired by **Big Combination** and the great boar, **Valley Chief,** two of the best big-type boars in southern Iowa. Spring boars in my sale weigh **350 pounds and better,** and the fall boars are the largest and biggest boned boars that have been offered this fall. If you want the **large-type Poland Chinas,** you will find what you are looking for in my sale. Write for my catalog at once and mention The Homestead. Address

R. C. HOLLINGSHEAD - RUSSELL, IOWA

Col. H. S. Duncan, Auctioneer. M. T. White, Field Man for Homestead.

sections of Illinois, and only the bad weather prevented the attendance of what would probably have been the largest crowds that ever attended an exhibition of this nature. The judges at this year's show were Edwin Hobson, Clifton, Ill., for the heavy horses, and Walter Palmer, Ottawa, Ill., for the light horses.

Closing Out Short-horns, Shires and Percherons.

On October 30th, at Blanchard, Iowa, A. G. Thurman will make a closing out sale of his entire herds of Scotch and Scotch topped Short-horns, Shires and Percherons, and it promises to be one of the most important sales held in southwestern Iowa this fall. The Thurman herds of Short-horns and Shires have been the best in that part of the state, and he is going to offer some great bargains in this sale. He is selling one Shire stallion named Keota Teddy, a twelve-year-old horse, but a good one. He has been a constant winner at many of the fairs and has been a most excellent breeder. Mr. Thurman is selling a splendid lot of mares in this sale, among which are two imported mares, and two others that are out of imported sires and dams. There will be seven head of Shire mares and fillies in the sale, and some of these are of the very best. Among the good things will be Bonny Royal, a two-year-old Shire filly that is a corking good one. She is a gray in color, and was sired by Nuneham Harold, a winner of second prize at the London show and five or six championships in England. His sire was Buscott Harold, a three times championship winner in England. This is a most excellent young mare, is safe in foal, and will make a great brood mare. One of the great imported mares is Rose, a four year old sired by Bertha's Boy, a noted winner in England and sold for $3,000 as a two year old. She is a very large, gray mare, a good breeder and is safe in foal. Another good imported mare is Beecher's Flower, a seven year old sired by Calwich Blend, a noted stud that stood at the head of the King's herd. A number of other choice mares of similar breeding will be sold and these have all been used on the farm. Among these are some choice young mares. He is also selling one two-year-old Percheron stallion and a right good one, and one three-year-old Percheron mare. He will sell twenty-eight head of Scotch and Scotch-topped Short-horns and here will be a splendid opportunity to buy some good cattle. There will be about ten head of Scotch cattle in the sale including the herd bull, Master B. A number of good young bulls are listed and some splendid cows and heifers. The herd bull is Master B. a six-year-old son of that noted grand champion bull, Master of the Grove, one of the greatest winners that has ever been seen in an American show ring. His dam is Banker's Lovely by Imp. Banker. This bull will weigh 2,200 pounds in just breeding condition. He is a good breeding bull and belongs to that noted Cruickshank Lovely family. He is selling a most excellent young roan Scotch bull in this sale named Ramsden's Cumberland. He is nine months old and was sired by True Cumberland 2d, that splendid show and breeding bull that stands at the head of the C. F. Mitchell herd at Farragut, Iowa. His dam is Ramsden's Missie by Pride's Ramsden, his grandsire is King Gloster and then comes the noted bull, Imp Bandmaster. This bull is a Cruickshank Missie, is a richly-bred fellow and a splendid young bull. He is a nice roan in color, a sappy fellow with a good head and horn, a good back and he will make an outstanding good bull when matured. Another good young bull is Master D., a Scotch topped White Rose, and four nice, young bulls. Among the good Scotch cows is Orange Bud a two year old by the undefeated grand champion bull, Ringmaster. She sells with a calf at foot by Best of Goods, and she belongs to the Cruickshank Orange Blossom tribe. Red Rose is a three-year-old daughter of the noted show and breeding bull, Acanthus King and out of Rosemary 5th by Imp. Challenger. She is well along in calf and a nice Cruickshank Rosemary. Birdie Gloster is a seven-year-old Duchess of Gloster cow and is one of his best breeding cows. She sells with a good red calf at foot. There are thirteen breeding matrons in the sale and twelve head of young heifers and calves. Mr. Thurman is retiring from the farm and is, therefore, selling everything. If you are interested in Shire or Percheron horses or

TOO LATE TO CLASSIFY.

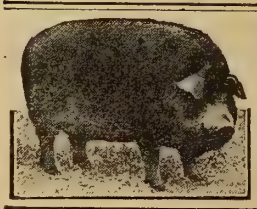
Prettyman's Big-Type Immune Poland China Sale

7 Fall Boars
23 Spring Boars
3 Yearling Sows
5 Fall Yr. Gilts
12 Spring Gilts

Fairfax, Mo., Monday, Nov. 3, 1913

KING LONGFELLOW 57342 by Pawnee Prince, he by Pawnee Lad and Orange Wonder 65443 by Big Orange, are the sires. All are good and from high-class sows carrying the blood of Johnson's Chief by Chief Tec, 3d, Grand Look, Max's Dude, Pawnee Lad and Big Prospect. Write now for catalogue. Cols. H. S. Duncan and Bradfield, auctioneers. A. T. Cole, representing The Homestead.

Obadiah Prettyman - - - - Fairfax, Missouri



BIG DUROC BOARS BY WILSON'S DEFENDER

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am selling at $25 and $30 each. These pigs weigh from 150 to 180 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. Yearling sows by Wilson's Defender and Crimson Wonder I Am; gilts by Wilson's Defender and Wilson's Crimson Wonder, bred or open. Wilson's Defender and Select Model by Golden Model at the head of my herd. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. Mention Homestead when writing. ½ mi. N. of town. **I. J. WILSON, WEST BRANCH, IOWA**

A Select Herd of Scotch Short-horns

FOR SALE

I AM offering at private treaty my small but very select herd of Scotch Short-horns. Comprising 24 head of the most richly bred Scotch cattle here in the west. There are 11 cows, 3 yearling heifers, 9 calves and 1 herd bull. This includes 4 Lavenders, 6 Violet Buds, 1 Princess Royal, 1 Gwendoline, 1 Aurora, and 3 Duchess of Glosters. Among the great cows in my herd is Lavender Bud (cost me $25) and her two choice heifers and she also has cow calf at foot. Honeysuckle 3d by the noted Cumberland Chief and out of Imp Honeysuckle 5th, has a heifer calf at foot and rebred. A choice lot of Violet Buds and Duchess of Glosters. Have sold my farm and must dispose of the select herd. A great bargain for some man wanting to start a herd. Write me at once or come and see me. Address

H. F. FUNKE - - - - - - - GREENFIELD, IA.

50 HEAD--DISPERSION SALE OF DUROCS AND HAMPSHIRES--50 HEAD

AT THE WM. GALLOWAY FARM NOV. 5-6 '13

AT which time the 130-acre farm and herds of Holsteins and Ayrshires and complete contents will be sold. The Hampshires are all selected show and breeding sows and gilts which have been retained to make this herd famous. Great big sows, heavy bone, good backs and feet, good heads and ears and finely belted. Sale includes every animal on the farm. Rollen True, our herd boar, also goes. Here is the greatest chance in Iowa. Come and see for yourself. Every animal registered. The Durocs are all show and high-class breeding stuff which we intended founding our Duroc herd with. Two fine boars and 15 head of fine sows and gilts. If you want good stuff at your own figures come on above dates. Don't forget the Holsteins and Ayrshires.

WM. GALLOWAY - - - - - WATERLOO, IOWA

JAMES LAWLER'S IMMUNE POLAND CHINA BOARS

50 IMMUNE Poland China boars. 8 good fall boars, 42 spring boars sired by Miller's Choice 170929 bred by John Miller, and Chief Price A 173973, bred by Peter Mouw, and Giant's Equal 198449, he by Equal's Giant 184927, he by Long King's Equal 177373. Their dams include all of the best big-type breeding. They are sired by Rock Valley Chief, Expansion King Jr. 3d, Chief Price Jr., A Wonder, Big Tom and Carey's Long Wonder. Come and see them or write for prices. **James Lawler, Clare, Iowa.**

When Writing to Advertisers Please Mention The Homestead

Short-horn cattle here will be a good sale to buy them. Send for his catalog at once and kindly mention The Homestead. See page 32.

Angus Auction at Omaha.

One of the important fall sales of beef cattle will occur at South Omaha, Neb., Tuesday, November 4th, when sixty head of high-class Aberdeen Angus cattle will be sold under the management of M. A. Judy, one of the best posted and most competent Angus authorities in the country. For this sale Mr. Judy has sixty head listed, forty females and twenty bulls, and he characterizes the offering as one of the best he has ever presented to the public. They are a strongly-bred lot, representatives of the Blackbird, Trojan Erica, Queen Mother, Pride of Aberdeen and other fashionable Angus tribes and their individuality is in keeping with the breeding. The bull list contains many herd heading propositions, as well as the sort that will sire the market topping steer. The bulls run in ages from twelve to twenty-four months, are the approved beef type, and should certainly meet with ready appreciation sale day. The forty head of females in the auction are an attractive lot and among them are many outstanding propositions. All the females are either safe in calf or have calves at foot, a fact that adds very materially to the value. At this time, when there is such a keen demand for cattle of the different beef breeds, the sale should certainly attract wide attention. It will be one of the very few opportunities presented this fall to secure desirable Angus cattle at public sale, and those of our readers in the market should certainly take advantage of it. The advertisement appears on page 28. Look it up and write for a copy of the catalog to M. A. Judy, West Lebanon, Ind., mentioning The Homestead when you write.

Prettyman's Poland China Sale.

On Monday, November 3d, Obadiah Prettyman, Fairfax, Mo., will sell fifty head of big-type Poland China boars and gilts that should interest those looking for breeding stock that is bred from stock that has made the big, smooth kind so popular. Seven fall boars, twenty-three boars of last spring farrow, three yearling sows, five fall gilts and twelve spring gilts are listed. The leading boar in Mr. Prettyman's herd and the sire of the fall boars and gilts and much of the spring stuff is the five-year-old boar, King Longfellow 57342, by Pawnee Prince, he by Pawnee Lad. His dam, Mary L., was by Big Prospect, which shows that he descends from big-type hogs that have made good and King Longfellow easily ranks among the top boars of today. He weighs in the neighborhood of 800 pounds in breeding condition, has as beautifully an arched back as is found, is one of the deepest bodied boars we have seen and is as smooth as a six months old pig. His good, masculine head, full rounding hams, heavy bone and good feet appeal to all. Had King Longfellow been pushed he would be among the prominent boars of today. Other boars and gilts in the sale are by Orange Wonder 65443, a son of Big Orange and Royal Lady, said to be the best A Wonder sow Mr. McClarnon could find. Orange Wonder is a great big yearling with great length, heavy bone and is a worthy assistant to King Longfellow. The dams of the sale hogs carry the blood of Johnson's Chief by Chief Tec. 3d, Grand Loog and Max'c Dude furnish Orange Wonder litters. Mr. Prettyman is proud of the record his sows make in farrowing and raising large, even litters and those who buy from him get the produce of prolific sows. His herd passed through the cholera early last June and everything has been treated with the simultaneous treatment so they should be immune. Fairfax is sixty miles north of St. Joseph, Mo., and is easily reached over the Burlington route from St. Joseph, Mo., or Omaha, Neb. Note page 30 for his advertisement and send for his catalog. Col. H. S. Duncan will do the selling and bids sent to him will be handled properly.

Big, Smooth Polands, the "Smith Kind."

Readers of this paper that are interested in the big smooth Poland China will be interested in the "Smith Kind" for they are a kind to themselves. It is really a work of a great breeder when he can establish a type that is recognized as singular to his herd, and such is really the case in the Smith herd, owned by Albert Smith & Sons, Superior, Neb. These gentlemen have hewed close to one line, and they have perfected to a great extent a Poland China that fills the wants of those looking for a hog that is big, yet smooth and an easy feeder. The writer has watched this herd with much interest for the past several years, and has watched the produce from this herd in other leading herds, and we wish to say that the good they have done should be a matter of much satisfaction to the breeders and they certainly have been profitable to the other owners. Smith & Sons have been eminently successful in holding public sales. They have always realized good averages, and their sales have been very uniform as to the range of prices, there being nothing fictitious about the values, and the great uniformity of the offering kept the range of prices even. On account of the nearly total failure of the corn crop in their section of Nebraska, these gentlemen have not attempted holding a public sale this fall. They have selected about half of the very best of the boars and are offering them for immediate sale at private treaty. We believe that as good, if not the best crop of boars that these gentlemen ever raised, have been produced this season. They are by Jumbo Jr., one of the very best sires of the corn belt today, Victor's Prospect and Mogul's Model. We recommend these boars, and they are priced at less than their real value. If interested, kindly write them today and mention this paper when doing so.

S. A. NELSON & SONS

again direct attention to their annual sale, which will be THE GREATEST WESTERN SALE OF

SHORT-HORNS

of many months. Sale at Farm near

MALCOLM, NEBRASKA, FRIDAY, NOVEMBER 7, '13

50 head are offered: 8 serviceable, herd-heading bulls, 35 females, some with calves at foot. Some of the most valuable specimens ever passed through a Western Sale Ring are included.

THE BREEDING IS OF THE BEST containing blood of the most noted of the breed.

THE INDIVIDUALITY WILL PLEASE critical stock men. Winners at recent fairs included.

THOSE OF THE PUREST SCOTCH pedigrees are listed.

EXCELLENT AMERICAN FAMILIES nicely Scotch-topped go in.

Those in Search of Herd Bulls will be interested in the beautiful roan youngster, a son of GOOD LAD'S GOODS and from a daughter of BURWOOD SULTAN, or the September yearling, HILLSDALE GOODS. ALSO BY GOOD LAD'S GOODS and from NONPAREIL FLOWER 2D, or either the red January calf by the same sire and from ORANGE BLOSSOM 2D. These are all of the purest Scotch breeding, two of them as valuable prospects as will be found. Other bulls of extra choice conformation will please the good stockmen.

Those that Appreciate the Ownership of choice Short-horns will be sure to appreciate the cows that will be offered. Massive cows that are suckling nice calves and are rebred, younger ones well up to calving and beautiful yearling heifers of showyard makeup, and everything of good pedigree, more than half pure Scotch, are listed. The older cows are bred to the splendid sire, DAUNTLESS CHIEF, while his heifers and other younger things are bred to GOOD LAD'S CHOICE by GOOD LAD. His dam by VICTOR'S ROAN DUKE.

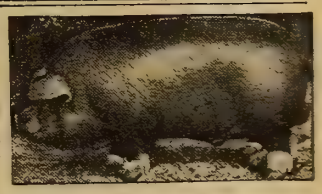
25 IMMUNE POLAND CHINA BOARS will also be offered. They are the get of Jumbo C by Wade's Jumbo, Long King's Model by Long King, Chief Price and Adams' Big Hal, Hillcroft Giant and a few others. No bigger breeding anywhere or more popular. You can secure a herd boar here. Some of these boars are bred by Peter Mouw and all are from good herds. A special train leaves Lincoln at 7:00, making connection with all morning Burlington trains, and will leave Malcolm in time to make connections with evening trains out of Lincoln. Remember that the sale will be held at the farm, one mile northeast of Malcolm, Neb. Free conveyance to and from farm. We ask you to be with us November 7th. Ask for our catalog, look it through carefully and plan to be with us. Mention The Homestead when you write. Col. Z. S. Branson, auctioneer. J. C. Price will represent The Homestead. Address

S. A. NELSON & SONS, MALCOLM, NEB.

McDowell's Big-Type Poland China Sale

Chariton, Iowa, November 1, 1913

45 HEAD--30 BOARS--15 CHOICE GILTS--45 HEAD



I AM selling a choice lot of spring boars that will weigh from 200 to 250 lbs. and sired by **Big Special** and **Smooth Wonder 3d.** Also **15 very choice gilts.** These are out of my very best big-type sows. Sale at Vandebur's feed barn. H. S. Duncan, Auctioneer. Catalog now ready. Address

E. E. McDOWELL - - - - - - - - CHARITON, IOWA

Holly Williamson's Poland China Sale.

One of the very best sales of large-type Poland Chinas that will be held in eastern Nebraska this fall will be that of H. O. Williamson, at Herman, on November 5th, and you just take our word for it you will see one of the best offerings you have looked at this fall. We don't want to throw any bouquets that are not deserved, but we will say that we never saw Holly Williamson sell a poor offering, and the sows and the boars he will sell in this sale are in keeping with the kind he has heretofore put into his sales. He is selling fifty head in all, fourteen spring boars, and they are good ones and they are very large for their age; seven of his best brood sows with litters at side, among which is a daughter of Big Columbus, Long Prospect, Dutch Pan, Grand Hadley, Ponder Hadley, Wade's Jumbo and A's Victor. These sows are all good and they have nice litters at their side by some of the splendid boars he is using in his herd. Then there will be six of the very best sows, three yearlings and twenty spring gilts. Another good boar he will sell is Great Mastiff, a son of the grand champion boar, King Mastiff. He is a three-year-old and a good breeding boar. He is also listing nine head of his best fall and yearling sows. These sows are sired by Big Wonder, and great Mastiff and are out of such well-known sows as Mollie King, by Long King; Peaches Lady by Blue Valley Quality; and Big Mariah by Dutch Pan. We will have no excuses to make for these sows when you see them as they are as good as anybody will sell this fall. He is selling a February boar and gilt by Great Mastiff and out of old Peaches Lady that are both very choice. This boar will bear inspection on day of sale and he will make a good herd header. Then there is a litter of two boars and three gilts by Gold Dust Hadley and out of a sow called Dora that are all right and there are some good herd-boar prospects among these. A choice litter is sired by Henry's Expansion and out of Myra. These are of February farrow and are therefore large and they are good. One choice boar and two good gilts are sired by Great Mastiff and are out of Lady Pan by Dutch Pan, and another very choice litter is sired by Spot's Best and are out of a sow called Jumbo Spot, and she is a daughter of the great boar Wade's Jumbo, who in turn is a son of Wintermute's old Jumbo and this boar has long since been regarded as one of the best breeding boars in the state of Nebraska. There are a number of other splendid litters in the Williamson herd that are going to look very good to the breeders who attend this sale. It is an offering that we take pride in urging our friends to attend because they will find they are bred right and they have been grown in such a way as will insure the best results for those who buy them. Write for the Williamson catalog and kindly mention The Homestead. M. T. White will represent The Homestead at the sale and will care for any bids entrusted to him. See advertisement on page 29.

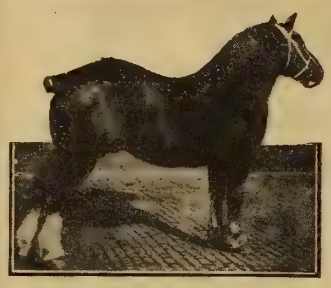
DeKalb's Great Hampshire Sale.

On November 4th, at the Kiel Barn, Council Bluffs, Iowa, H. D. DeKalb, DeKalb, Iowa, will make his annual fall sale and he will sell the greatest bunch of boars of this breed that he or any other breeder has ever put through a sale ring. This is a strong statement, but it is a statement we will stand behind and when the breeders see them they will say the statement is true. There will be sixty head of boars in this sale made up of thirty-five head of fall boars and twenty-three spring boars. Talk about your good things, just come to the DeKalb sale and see them pass through the sale ring. Among the best of these

. . . CLOSING OUT SALE . . .

Short-horn Cattle, Shire and Percheron Horses

Blanchard, Iowa, October 30, 1913



HAVING decided to retire from the farm, I am, therefore, compelled to sell my splendid herd of **Scotch** and **Scotch-topped Short-horns** and my well-known studs of **Shire** and **Percheron stallions** and **mares.** I will sell **1 aged shire stallion,** a well-known show winner and a splendid breeder; **7 Shire mares** and **fillies,** two of which are imported, and two are sired by imported stallions and our of imported mares and some outstanding young Shire mares. Also **1 two-year-old Percheron stallion** and one **three-year-old Percheron mare.** Many of my best Shire mares were selected without regard to expense from the best breeders and importers in this country. One highly-bred saddle stallion and two saddle fillies, practically of pure breeding, high acting and good going kind.

28 HEAD SCOTCH and SCOTCH-TOPPED SHORT-HORNS--28

I am selling my entire herd of well-bred Short-horns, including my Scotch bull, **Master B.,** a seven-year-old son of the grand champion bull, Master of the Grove. He is a Cruickshank Lovely and a good breeding bull, and he will weigh 2,200 pounds in just fair breeding condition. **Ramsden's Cumberland** is an outstanding young, roan, Scotch bull, sired by the show bull, True Cumberland 2d and out of a well-bred Missie cow. He is a roan in color and a good one, also **4 other good young bulls.** Among the best Scotch cows will be **Ramsden's Missie,** the dam of the best young Scotch bull, and she will calve again in January; **Orange Bud,** a daughter of the undefeated grand champion bull, Ringmaster, and she sells with a calf at foot by Best of Goods; Red Rose, a daughter of the show bull, Acanthus King, and she is a well-bred Cruickshank Rosemary; **Birdie Gloster,** a richly-bred Duchess of Gloster, and one of my best breeding cows, sells with a good calf at foot. Also a number of other good Scotch cows and heifers. If you want **Short-horn cattle, or Shire** or **Percheron horses,** here is an opportunity of a life time. Also will sell at public auction 150 acres, good stock farm, 3 large barns, 2 houses, water works in all barns and lots, electric lights on country road. All but thirty acres in grass. Catalog will be mailed upon application. Mention The Homestead when writing for it. Address

AUCTIONEERS: COL. H. S. DUNCAN, ROBT. McKEE, R. E. MILLER

A. G. THURMAN, Manager, BLANCHARD, IOWA

TOO LATE TO CLASSIFY.

PERCHERON HORSES FOR SALE OR TRADE

20 MARES, imported and home bred; most of them bred or with colt at foot, and 5 stallions, one a first-prize Iowa State Fair winner. All are good work horses. Want to give all my time to cattle. Will sell cheap or trade for Short-horn cattle. Must deal this month or not at all. Come and see them. No correspondence answered. This advertisement will not appear again.

C. A. SAUNDERS - - - - - - MANILLA, IOWA

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will be the great boar, DeKalb's King 50th, possibly as good a Hampshire boar as was ever listed for a public sale. This boar was farrowed August 6th last and he is a son of the wonderful breeding boar, Major, that stands at the head of the DeKalb herd and has proven himself to be one of the greatest living Hampshire breeding boars. He has for a dam the great sow, Nellie Aylor's Best, that is one of the great sows in his herd and she in turn is out of that equally noted sow, Jennie Aylor. Here is a boar that has a right to head the best herd in the land and we care not who owns him. Two two-year-old boars that have been used in this herd will be sold and they are good breeding boars. One of these is DeKalb's King 13th and the other is DeKalb's King 55th. The former is sired by Major and the latter by Commodore and both of these hogs are excellent breeding boars. Another splendid fall boar by Major is out of a sow called Mona, that is unquestionably the best sow in the DeKalb herd and one of the greatest Hampshire sows now living. Another good fall boar by Major is out of Lady Wide Belt. Another great boar in this sale is DeKalb's King 75th, and he is not only sired by the boar, Major, but he is also out of that wonderful sow, Jennie Aylor 6th, the sow with which Johnny Robbins topped his last sale at $460, and she stands today the highest priced sow of this breed. He is a full brother to a boar that Mr. DeKalb is keeping in his herd and he may show him next year and if he does it will make them all go some. Here is a boar that the breeders cannot afford to pass up we care not what they have to pay for him. There will be twenty-five head of yearling boars in this sale that will be sired by this noted boar, Major, and it will be a most excellent time to buy one of these and place him at the head of your herd. Then there are a number of good, spring boars in this sale and the most of them are sired by Erlanger 1039, the boar that was grand champion at the Indiana State Fair in 1908. There are a number of other boars in this sale that we might mention, but when we say to our readers that they are the best bunch of boars of the Hampshire breed that we have ever seen listed for a public sale, it should be sufficient to make you want to attend this sale. Write H. D. DeKalb, DeKalb, Iowa, for copy of his catalog at once and kindly mention this paper. If you cannot be present and you want one of these boars write our Mr. M. T. White, 4015 Izard St., Omaha, Neb., and send him your bid and he will attend the sale in person and will attend to your wants to your entire satisfaction. See advertisement on page 30.

Nelson & Sons' Great Sale of Short-horns.

On Friday, November 7th, at their farm one mile northeast of Malcolm, Neb., S. A. Nelson & Sons, of that place, will put up one of the good offerings of Short-horns that have been sold in recent years in Nebraska and without question the best lot of Short-horn cattle that have been sold in the West in some time. This is far and away the best lot of stock that these gentlemen have ever cataloged, not only in point of pedigree, but individual merit as well. It is true that they have at former times sold some extra select cattle, but this sale is practically made up of that kind of stock. The American tribes represented are topped with some of the best and most noted Scotch bulls of the breed, and we fancy that many men are not paying as strict attention to the matter of family in the Short-horn breed as formerly, but are looking more to the real value of a pedigree, which is the fact that an animal carries a large percentage of blood of good animals. In this respect there is not a poor pedigree in the Nelson catalog, for only choice cows, and the very best of bulls have ever been kept on this farm, and all selections made from other herds have been of the very best stock. There are about five strictly herd-heading bulls in this sale that are old enough for service. Some of them will not be ready for hard use till toward spring, but the breeder that is abreast of the times will not wait till spring to buy a herd bull this season, else the range buyer will beat him to the good ones, for the western men are right now paying good prices for bulls for next spring delivery. These bulls are all sired by Good Lad's Goods and he is by the grand old bull, Good Lad. Good Lad was sold for big prices a couple of times, owing to the fact that few bulls approached him as regards individual excellence. Those that insist on the straight pedigree will be allowed to purchase some as fine animals as we have seen sell in Nebraska in several years. Some are by Royal Sultan, others by Dauntless Chief, one by Baron Sultan, the noted bull owned by Shoebotham Bros., and still others are by other noted sires. We will not go into detail as regards this offering, for the details are in the catalog, but we do want to say that they are strictly a choice lot of stuff, the sort that will please those looking for good ones, and they will probably sell for much less than the same cattle will bring three months hence. Twenty-five Poland China boars, all immune, will also be sold the same day. A special train has been arranged for. It will leave Lincoln at 11 o'clock and will arrive at Malcolm at about 11:30. Free conveyance to farm and return. The special train will reach Lincoln in time to make connections for all points in the evening. Drop a postal for the catalog. It will be sent only on application. Mention The Homestead when you write. See page 31.

McCurdy's Giant Polands

SOME of the biggest, heaviest boned boars to be found anywhere, and they are of the very largest breeding. If you want big ones that are smooth, write me. I will save you money. Address
WM. McCURDY - TOBIAS, NEB.

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones. Growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

TAMWORTHS Spring boars and fall yearlings; a few choice gilts. Address Vane Coen, Afton, Iowa.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

I HAVE a fine collection of big, rugged, heavy-boned, Percheron, Belgian and Shire stallions and mares ready for the inspection of buyers. If you want the kind that has been winning at the state fairs, at rock bottom prices, see what I have before you buy. Stallions and mares of all breeds on hand. Write me for any information you may want, mentioning The Homestead.
GEORGE EGGERT J J J J J J NEWTON, IOWA

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

MY Big Type Poland China boars are sired by Cox's Wonder, by Rude's Giant and out of a Long King sow and by A. Model, grand champion of Iowa, 1912, and others. I sell at farmers' prices Write me.
B. F. MARMION - - FARMINGTON, IOWA.

BOARS! BOARS!! BOARS!!!

I HAVE decided to cut prices on Chester White boars and gilts for the next 30 days. These pigs are sired by three different boars. Have the length, good bone, good backs with the very best of heads and ears. Weight from 150 to 300 lbs. If you want a boar or gilt at a little above market price, write at once. Anything shipped on approval.
Harry Hurless, Ogden, Iowa.

SNYDER'S A WONDER FOR SALE

AN extra choice yearling boar, sired by a son of A Wonder. Pronounced by good judges to be one of the best, big, smooth yearlings in the West. Will sell for $75.00. Positively no less, and the first check gets him. Weighs 600 in good breeding shape. An excellent sire; am keeping his gilts. Mention Homestead and address.
PERRY A. SNYDER - - - - - - CARLETON, NEBRASKA.

EXTRA BIG, IMMUNE POLAND BOARS

WE have for sale a very choice lot of big, heavy boned boars, sired by Herod 2nd, and also some few litters bred by Peter Mouw. These Herod 2nd pigs are headers for the top herds. If in search of the extra big, also the smooth sort, write me. Mention Homestead and address
W. H. DEIGAN - - - RAYMOND, NEBRASKA.

BRIGGS' DUROC JERSEY BOARS

50 CAREFULLY selected, cholera immune, Duroc Jersey boars, sired by Cleatham's Pride, always a prizewinner, Crimson Wonder 4th, first Nebraska, 1911, Queen's Crimson by C. W. Again and Belle Wonder. Positively everyone a good one and will weigh from 200 to 250. Write us today and mention The Homestead.
GEO. BRIGGS & SONS - - CLAY CENTER, NEBRASKA.

LEARN AUCTIONEERING
At The WORLD'S GREATEST SCHOOL AND BE INDEPENDENT

WINTER term opens Dec. 8, following the International Live Stock Exposition. Tuition gives four days' free admission to the show. Write for catalog today.
JONES NATIONAL SCHOOL OF AUCTIONEERING
CAREY M. JONES, Pres.
14 N. Sacramento Blvd., Chicago, Illinois

PROSPECT HILL FARM JERSEYS

WE are offering for sale a few excellent bull calves, two of which are nealry ready for service. Several of these young bulls are from Register of Merit dams, and were sired by St. Lambert bulls. No females for sale. State your wants and get attractive prices on these bulls. Address
F. H. Scribner & Son, Rosendale, Wisconsin.

HAMPSHIRE BOARS

SAME breeding as my **silver cup** winners at Des Moines, 1912. Will weigh 175 pounds and have had double treatment. Price $35 each. Guaranteed breeders. Mention The Homestead when writing.
F. T. QUIRE - - - - - SULLY, IOWA

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcom, Nebraska.

TAMWORTH BOARS

I HAVE ten choice spring boars, also one tried boar for sale. Prices reasonable.
Eugene Holden, R. 1, Williamsburg, Iowa

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

DUROC JERSEY BOARS

OF March and April farrow, sired by Protection's Medium by Chief Protection and Model Select by Chief Select. The dams are of Muncie Chief and Crimson Wonder Again breeding. Prices reasonable. Write me before you buy.
WARREN HUGHES, LITTLEPORT, IOWA

---

100 IMMUNE BOARS

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address
F. C. CROCKER - FILLEY, NEB.

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152095) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

L. B. Williams & Son's Sale

Large-Type Poland Chinas

35 BOARS, 15 SOWS AND GILTS

Sciola, Iowa, Thursday, Nov. 6, '13

We are selling as good a bunch of boars as we have ever raised—25 big, lusty spring boars, and 10 Fall Boars, sired by W's Quality, Big, Tom Jr., and Big Orient; 6 fall sows, sired by Orphan Wonder, a son of The Big Orphan; W's Quality, a son of Blue Valley Quality, and Surprise All, a son of All Tecumseh. We are selling a good tried sow, a daughter of Big Wonder, and a choice lot of spring gilts. Sale will be held at Sciola, Iowa, eight miles north of Villisca, Ia. Col. H. S. Duncan, Auctioneer. M. T. White, fieldman for Homestead. Write for our catalog at once and mention The Homestead. Address

L. B. WILLIAMS & SON, VILLISCA, IOWA

S. W. SWANSON'S

DUROC JERSEY SALE

RED OAK, IOWA, NOV. 5, 1913

50 HEAD: 14 FALL BOARS, 36 SPRING BOARS. 50

THE fall boars will be sired by **Model King, King Willetta** and **Laws Col.**, and the spring boars by **Cherry Chief, Crimson Wonder Again** and **Model King.** These are out of my highest priced and my very best sows. I am offering a great line of boars in the sale. Col. N. G. Kraschel, Auctioneer. Write for my catalog at once and mention The Homestead. Address

S. W. SWANSON - STANTON, IOWA

BLACKBURN'S BIG SALE

IMMUNE DUROC JERSEY BOARS

Will be Held at Farm Near

ORD, NEBRASKA, WEDNESDAY, NOV. 5, 1913

THERE will be offered in this sale a strictly choice lot of spring boars, the get of CRUSADER COL. He was fifth in a big showing at Lincoln this season and is sired by a grand champion. They are out of one of the best sow herds within the state and all of the most popular blood lines. If in search of a really choice boar, attend this sale. Col. Z. S. Branson, Auctioneer. J. C. Price, fieldman. Mention The Homestead and address

J. R. BLACKBURN, ORD, NEBRASKA.

O.I.C.'s and Chester Whites

at Public Sale

THURSDAY, OCTOBER 30, 1913

50 Head---20 Boars, 30 Sows, The Pick of 150 Head

Write for Catalogue

W. F. DOOLITTLE - - WOODLAND, MO.

Long King Superior

AND

A Wonder Again

Big-Type Poland China Offering

New Sharon, Ia., November 4, '13

40 Head, 35 Boars, 5 Sows

I WILL sell four fall yearling boars sired by the noted Fesenmeyer boar, A Wonder, and one fall yearling sired by the noted Big Orange. These are herd boar propositions. Of the thirty spring boars, six are sired by the noted Long King Superior and one of them is the best proposition for a big-type herd boar that I have ever raised. There will be five boars by P.'s I. X. L. and nineteen by A Wonder Again, a great breeding son of the noted A Wonder. I know I can please anyone in the market for a high-class herd boar with size, quality and bone. Write me for catalog, mentioning The Homestead, and arrange to attend my sale. Bids sent to Carlos C. Palmer, Homestead representative, will receive careful attention. W. B. Duncan and W. H. Cooper, auctioneers.

Chas. W. Phillips - New Sharon, Iowa

HORSES.

WE ARE IMPORTERS

of the Best Blood of Europe in

PERCHERON AND BELGIAN STALLIONS AND MARES

Only horses of the best quality handled. All horses young and fresh. No carried over stock. Prices, terms and guarantees right. Your correspondence solicited for full particulars. Large calendar free after December 1st.

W. A. LANG & COMPANY, GREELEY, IOWA

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW! V. W. HARMS, FAIRBURY, ILLS.

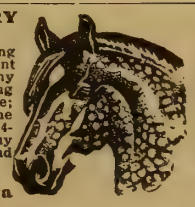
JACKS AND JENNETS

EIGHTY large-boned, black Mammoth Jacks, 15 to 16 hands standard. Guaranteed and priced to sell. The kind all are looking for. Also good, young Percheron Stallions. Reference five banks of Lawrence. Forty miles west of Kansas City on Santa Fe and U. P.

AL. E. SMITH - - - - LAWRENCE, KANSAS

AMERICA, A COUNTRY OF HORSE LOVERS

Americans are now making greater Percheron improvement than Frenchmen. Come to my farm and see a herd of breeding Percherons with more bone; rugged draftier patterns. The young reg. studs, weanlings to 4-yrs. for sale; a big bunch. Buy FROM A FARMER, save ⅓ and get A GOOD ONE.



FRED CHANDLER
Route 7, Chariton, Iowa

IMPORTED AND HOME-BRED Percheron, Belgian and Shire Stallions and Mares

ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from.

Frank L. Stream - Creston, Iowa

FOR SALE

After October 15th,

PERCHERON STALLIONS

from 2 to 5 years old. **Singmaster & Walker,** at Stock Yards, Sioux City, Iowa.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

Purchase Percherons

NOW is the time to buy Percheron mares, with foals at foot, rebred for 1914 foals.

BUY THREE IN ONE

See the mares in pasture or infield work.
See the kind of colts they are suckling.

You can buy more intelligently now, than any other time of the year. For information, and full lists of Percheron Breeders, address Percheron Society of America, **Wayne Dinsmore, Sec'y.** **Union Stock Yards - - Chicago, Ill.**

SHETLAND PONIES The small gentle kind. I have them from baby ponies to grown ones broke to drive and ride, for sale. Address S. W. Harr, Riverside, Iowa.

300 **SHETLAND and Welsh ponies** for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill.

HORSES.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

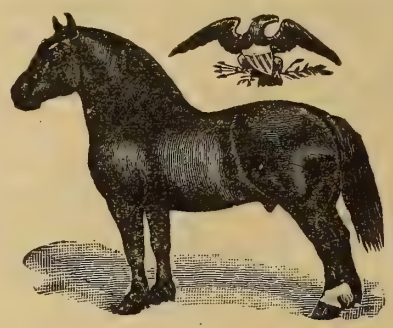
Our Prices are the Lowest. OUR HORSES ARE THE BEST Send for our handsomely illustrated catalog. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS

HOLBERT HORSE IMPORTING COMPANY

PERCHERONS BELGIANS SHIRES

NEW IMPORTATIONS CONSTANTLY ARRIVING



We have at any time of the year more **Big Ton, High-class Percheron** and **Belgian stallions** than any other firm in the United States.

A. B. HOLBERT, Prop., GREELEY, IOWA

MAASDAM & WHEELER

FAIRFIELD, IOWA

PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.

12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.

MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

BELGIAN EMPORIUM OF AMERICA

LARGEST COLLECTION OF BELGIAN DRAFT HORSES ON EARTH.

ALSO twenty Choice Percheron Stallions. The fall importation of 100 head, the second importation for 1913 swells the number on hand to 175 stallions, mares and colts. Many Prize Winners; Many Descendants of Prize Winners, All Choice Animals. We are Farmers and Stock Breeders; twenty-eighth year in the Belgian horse business. Each year adds to our strength, and now we can defy competition in Quality, Quantity and Prices.

4 FARMS ALL ADJOINING; 7 LARGE BARNS.

Our railroad facilities are fine, Fairfax on main line of C. & N. W. Ry., also on Marion, Ottumwa and Kansas City Division of C. M. & St. Paul Ry. Eight miles from Cedar Rapids; 40,000 inhabitants, telephone from Cedar Rapids for auto or team to meet you at Interurban, car every hour. Farms two miles from Fairfax, three miles from Interurban. Free catalog with 100 illustrations.

H. LEFEBURE & SONS, - - - - FAIRFAX, IOWA

HEISEL'S PERCHERONS

GET in line, be the first to purchase one of those big, drafty, **Percheron** stallions that arrived in my new importation September 22d.

Sale barns in town, located 180 miles west of Peoria, Ill., 91 miles west of Burlington, 70 miles southeast of Des Moines, 290 miles south of Minneapolis, on M. & St. L. and C. B. & Q., R. R.

E. J. HEISEL - - - - FREMONT, MAHASKA CO., IOWA

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

NEW Importation Arrived April 23rd, and is now ready for inspection If you want the kind good enough to win at the state fairs at rock bottom prices see what I have before you buy. Stallions and mares of all breeds in the last importation. When writing mention The Homestead.

GEORGE EGGERT NEWTON, IOWA

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three-year-old stallions and a gr and bunch of mares and fillies. Mares are all in foal to imported stallions. All of my prize winners at the recent Iowa State Fair are for sale. I can show buyers more horses for the money than my competitors. Visit or write me your wants mentioning Homestead. Farm ½ mile from town.

R. F. FRENCH - - - INDEPENDENCE, BUCHANAN CO., IOWA

Located on the Rock Island and Illinois Central railroads.

Irvinedale Belgians and Percherons

40 STALLIONS and mares—imported and home bred. Some highest class horses for critical buyers, and some farmers' horses at farmers' prices. Come to the farm. Ankeny is 10 miles north of Des Moines, on C. and N. W., and Ft. D., D. M. & S. Interurban. Address

CHARLES IRVINE - - - IRVINEDALE FARM, ANKENY, IOWA

SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead.

GEORGE D. HARRAH, NEWTON, IOWA

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods,** and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address

HOWELL REES & SONS, - - PILGER, NEB.

4--Good Young Scotch Bulls For Sale--4

I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address

GEO. H. WHITE, - - - EMERSON, IA.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

WILDWOOD BULLS

SIX 12 months calves to select from. One 16-month baby bull. Would also sell WILDWOOD SULTAN, 2d prize junior yearling at Des Moines, 1913. See them or write.

W. W. VAUGHN & SON, MARION, IOWA

Short-Horn Herd FOR SALE

NINE EXTRA CHOICE females and one very fine Scotch bull for sale. They come of excellent pedigree and are good individuals. Will price them cheap as a bunch. Write today if interested.

F. M. HALL - - FRIEND, NEB.

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.

W. M. MYERS - - BEAMAN, IOWA.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.

F. H. EHLERS - - TAMA, IOWA

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

G. H. BURGE - MT. VERNON, IOWA.

SHORT-HORN CATALOGS

COMPILED and printed. Thirty-five years' experience with pedigrees enables me to do good work. Write for samples and prices. Some pure Scotch heifers for sale.

FRANK P. HEALY - BEDFORD, IOWA

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.

JESSE BINFORD & SONS, LISCOMB, IA.

SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

LITTLE'S BATES SHORT-HORNS

HAVE TWO SOURCES OF PROFIT

MILK and BEEF

Are You Interested? Write or Come

B. W. LITTLE, JANESVILLE, WIS.

$925 FOR A SHORT-HORN HERD

WE have too many cattle and must sell 8 cows and heifers, all bred and two with calf at foot. This is a bargain for the bunch.

C. & C. T. VAN LINT - PELLA, IOWA

SHORT-HORN BULLS

SOME excellent bulls of serviceable ages. Pure Scotch, others Scotch topped. Good breeding, best of individuals and at farmers' prices. Address

J. H. HARPER - - BENNET, NEBRASKA

Cedar Hill Short-horns

SOME extra good yearling bulls sired by the 2,200-lb. Secret Hero; also a pure Scotch herd bull. We keep a great line of heavy milking cows. Mention The Homestead and address

IRVIN E. WILSON, BELVIDERE, NEB.

Short-Horn Bulls

FOR SALE. Reds and roans sired by Mr. Robin 338773, a richly bred Marr Missie. Address for prices, mentioning The Homestead,

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CHOICE Short-horn bulls at farmers' prices are the sort offered. They are sired by the good breeding bull, Improver, and out of cows of good breeding. Write to me at once for a good bull worth the money. Address **Pat Kelley, Friend, Neb.**

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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address

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D. S. Polled Durhams, reds and roans, both sex. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

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COWS AND HEIFERS FOR SALE

WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazimura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

20 Aberdeen Angus Bulls

I am offering **20 choice serviceable bulls,** of the very best families, sired by my noted Blackbird bull, **Blackbird Barney** and **Elfin of Homedale.** Want to move these and will price them right. Write me at once or come and see them. Address
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I HAVE a few yearling and two year-old Angus heifers for sale, also three teppy bull calves that were calved in January.
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ANGUS BULLS: A few bulls of desirable ages and of best breeding. Address H. W. Ehlers, Roca Neb.

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RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
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TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

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New Blooded BERKSHIRES for your herd, selected and developed for years for breeding and marketing qualities. Hardy, pedigreed stock of all ages to select from. Morgan Berks win prizes everywhere and make you most money either as blooded stock or for market. You can't buy a faulty animal here, and our service is perfect in every respect. Write for full particulars.
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LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

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30 CHOICE FALL BOARS

SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by High Style, International King, International Boy, Combination III., Village Boy and Combination's Favorite.

BRED SOW SALE FEBRUARY 27, '14

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I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
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VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
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W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder Col, Iowa State Fair, 1911, and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address mentioning The Homestead.
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I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
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40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hercules and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
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THOS. F. KENT R. 2 WALNUT, IOWA.

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent young boars, some choice herd headers. Also 50 good spring boars. These pigs have been immuned. Write me if you want one and mention Iowa Homestead. Address
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GOOD ONES, March and April pigs sired by **Ben Hur 20229** by Chief's Council 16397 by Chickasaw Chief 11901 and **Fancy Goods 20327** by Major Jr. 19297. Aberdeen Angus cattle. 2 Blackbird bulls for sale. Write for prices.
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CHOICE Chester White swine. Either sex. Pairs, no akin. On account of dry season in this section and must buy feed I am offering choice, growthy spring pigs of best breeding at special low prices for thirty days ending November 15th. Also booking orders for fall pigs at $5.00 each, crating and pedigrees free. I have new blood for old customers.
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WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
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WE have a fine lot of boars and gilts sired by our prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
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160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow sired by Sam B. (champion boar at Sioux City, 1910 12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
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125 HEAD of spring pigs of both sexes to select from. Also booking orders for fall pigs to be shipped at weaning time. Have six male pigs, one year old the middle of Sept. Will ship on approval. Write or come and see me.
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I HAVE a fine lot of March and April boars and gilts sired by Combination II, that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
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A FINE lot of extra choice spring boars, also gilts and sows for sale. Mostly the get of the great Keep On Winner. Write today,
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WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
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CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
CHAS. H. MURRAY - FRIEND, NEB.

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100 CHOICE spring pigs—40 choice boars for sale. All from my famous prize winning stock; also some brood sows for sale. Write me at once. Address,
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FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
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25 HEAD of choice fall boars by Pathfinder 2d, Pride of the West and other good boars. Size, heavy bone and good. Immune from double treatment. Call and see these hogs or write to
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CHESTER White fall and spring boars by the great Plainview Choice. Also some Shorthorn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

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FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address
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FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
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SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
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SPRING and winter boars, wonderful length strong back and feet, best of head and ears. 50 spring and winter gilts. These hogs carry the choicest blood lines of the breed. Priced to sell. Address
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I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
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EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
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ROGERS' O. I. C.'s Positively as good as any. Prices moderate. For an extra select boar, write N. R. Rogers, Peru, Neb.

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

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Big Duroc Boars By Wilson's Defender

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am selling at $25 and $30 each. These pigs weigh from 150 to 180 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. I have four sows to farrow in September that I am pricing reasonable. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. If the hog don't suit send him back and get your money. Mention The Homestead when writing.
I. J. WILSON, WEST BRANCH IOWA

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col. and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. These boars have size, bone, quality, combined with breeding that is right. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address
HANKS & BISHOP - - - - - - NEW LONDON, IOWA

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I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
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30 HIGH-CLASS DUROC JERSEY IMMUNE BOARS---30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, A.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
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40—BIG-TYPE DUROC JERSEY BOARS—40

SIRED by Crimson wonder Chief, San Salvador and Cherry Chief, and from sows sired by Crimson Wonder I Am, Belle's Colonel, Proud Colonel, Blue Ribbon Chief and other noted hogs. These boars are March and April farrow and weigh 160 to 200 lbs. They have good neat head and ears, broad arched backs, thick deep hams, are a deep cherry red in color and as smooth as a ribbon. Price $20 and $25 each.
R. H. DE VAULT - - - - BLOOMFIELD, IOWA

25 Immune Duroc Jersey Boars---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address, mentioning Iowa Homestead
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DUROC JERSEY BOARS

I HAVE a fine lot of spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
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RIVERSIDE FARM MULE-FOOT HOGS
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BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

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TAMWORTH SWINE

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50 Immune 50
DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

25 DUROC JERSEY BOARS 25
25 DUROC JERSEY GILTS 25
LARGE, growthy, heavy bone. Everything guaranteed as represented. Best breeding, $20 to $30. Correspondence solicited. Address
W. J. HARTUNG - MAXWELL, IOWA

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - Rose Hill, Iowa

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

15 HEAD IMMUNE DUROC JERSEY BOARS

I AM offering 15 good boars. All **vaccinated and immune.** Sired by I Am Muncie. These are good boars. Price $25 and $35. Send your order at once. Address **J. F. Kerns, Holstein, Iowa.**

BIG DUROCS by J. E.'s Model King by King The Col. Write for prices at once.
J. E. HENSLEY - CENTRAL CITY, NEB.

Special Prices on Durocs Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

DUROCS---April Pigs For Sale
Good lengthy boars and gilts of the best breeding.
L. L. WOODS - - - GRINNELL, IOWA

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - AMES, IOWA

Boars For Sale
Sired by CRIMSON WONDER AGAIN

MODEL Chief 8th and Cherry Chief. Big, husky fellows with bone and size. Priced to move them. Address
H. S. ALLEN - - RUSSELL, IOWA

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

Well Bred Durocs

I have the best lot of boars for sale that I have ever offered. They are sired by Chief Select Jr. 103747; B. & S. Golden Model 129083; Model Chief Jr. 130319 and C. J.'s Chief 118415. These boars have lots of bone, length and quality. Write me for prices if you want a good boar reasonable. Mention Homestead
C. J. SWALE - FREDRICKSBURG, IA.

IMMUNE RED HOGS
DOUBLE TREATMENT
Crimson Wonder and Ohio Chief Strains
GEO. T. WHITE DALLAS CENTER IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - DICKENS, IOWA

CHOICE DUROC BOARS

SOME early spring boars sired by Model Wonder and out of choice sows. Also some by the great Wilde's Wonder. Prices to move these hogs early. Write today. Address
WM. BORNEMEIER - ELMWOOD, NEB.

DUROC GILTS, $15 to $30

I HAVE a choice lot of early and late spring gilts; also some fall gilts that I will sell at above prices. Will also breed them for small sum additional. A few spring boars. Address
WM. RETZLAFF, BENNETT, NEBRASKA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - WOODWARD, IA.

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Superba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - RYAN, IOWA

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - West Liberty, Iowa

50 Immune Duroc Jersey Boars

SIRED by A Wonder, Jr., A Wonder Fancy Chief; G. S. Crimson Wonder, Model Chief Jr.. Splendid boars at $25 and $30. Everything vaccinated and ready to ship.
HEIKO GRUIS - GEORGE, IOWA

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

12 DUROC JERSEY FALL BOARS

I AM offering 12 good fall boars for sale sired by Col. Seek 114971, out of Critic and Grandmaster Col. sows. Will also sell Golden Model XI. Write me for prices at once. Address
H. V. CRONK - - - WATERBURY, NEB.

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

IMMUNE DUROC BOARS FOR SALE

VACCINATED by double method. Four head of fall yearlings and 25 big, growthy, spring boars. Herd boars, Clover Dale Chief 117753 and Lincoln Model 133869. Dams of best breeding. Visit or write
U. G. BURTON - STORM LAKE, IOWA

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

ECONOMY STOCK FARM SALE
DUROC JERSEYS
Shenandoah, Ia., Oct. 29
40 HEAD--17 Spring Boars--15 Fall Boars--7 Sows--40

Big Wonder, senior and grand champion boar Iowa State Fair, 1913. Five of our best sows go into this sale bred to Big Wonder.

INCLUDED will be our great herd boar, **Highland Chief,** one of the best herd boars today in the West. Also the great yearling boar, **Top Col.** Fifteen of our best fall boars and seventeen spring boars. We are listing five of our best sows in this sale bred to our Iowa State Fair grand champion boar, BIG WONDER. One of these is a daughter of **King the Col.** Another is a daughter of Col. Gano. Highland Chief and Defender King. Some splendid spring boars by the great Chief's Col, Highland Chief and Captain Gano. Col. N. G. Kraschel, auctioneer. M. T. White, field man for The Homestead. Write for our great catalog at once and mention The Homestead. Address

ECONOMY STOCK FARM, Shenandoah, Ia.

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address
B. W. HUNT - - - - - - - - - - - - - - **DENISON, IOWA**

High View Duroc Jersey Stock Ranch

OFFERS for immediate sale a choice lot of fall boars, well grown and of good blood lines. Prices from $25 to $40. Spring boars at from $20 to $30. Mostly sired by Golden Rod King Jr. by the champion, Golden Rod King, and Billy K., a Buddy K. 4th bred boar. Order at once, write or come see. Farm adjoins town.
A. T. BOSELY - - - - - - **FAIRBURY, NEBRASKA**

MERRICK'S DUROC JERSEY BOARS

ARE the kind that will make good on your farm. They are as well bred as possible to obtain and they are individually of the right sort. Farmers' prices will take these good ones if ordered at once. Write for prices and description at once. Address, mentioning The Homestead,
F. E. MERRICK - - - - - **OSCEOLA, NEB.**

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - - **MARQUETTE, NEBRASKA.**

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN **R. F. D. 7.** **LINCOLN, NEBRASKA.**

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - **GRISWOLD, IOWA.**

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - - **DE WITT, NEBRASKA**

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship via U. S., Adams or Wells Fargo express.
E. CRABS - - - - **ALEDO, ILLINOIS**

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - **Oxford, Iowa**

TRULY A CRIMSON WONDER FOR SALE

THIS great son of **Crimson Wonder Again** and **H. A. Queen's,** a great herd boar. Also 13 choice spring boars. Price $30 to $40. Come and see me at once.
SILAS IGO - - - **INDIANOLA, IOWA**

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
Wm. BAUER - - - **AUDUBON, IOWA**

DUROC JERSEY SWINE.

KING GANO 13311
1st Prize Junior Yearling at Des Moines

I AM offering **40 BOARS FOR SALE,** most of which are sired by **King Gano 13311,** the 1st prize junior yearling at Des Moines, 1913, and the greatest yearling ever seen at the fair. He weighs 725 lbs. at 17 months and is the sensation of the year. Write me about these boars at once and mention The Iowa Homestead. Address
O. E. OSBORN - - - - - - **WESTON, IOWA**

60 EXTRA CHOICE CHOLERA IMMUNE DUROC JERSEY BOARS

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select,** and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Everything in herd vaccinated. Will guarantee everything to live 30 days or will refund one half of purchase price. Ready to ship at any time.
H. S. FAIN EMMETSBURG, IA.

Duroc Jersey Boars From Van Patten's

BOARS by the great Uneeda Crimson Wonder and Model Wonder, also a few by Queen's Col. These are from one of the oldest established herds of America and from a grand lot of sows. These herd heading boars go at farmers' prices. Let us have your order at once. Address
G. VAN PATTEN & SON - - - - - - **SUTTON, NEB.**

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best big-type boars you ever saw. Will be pleased to show him to you if you come to the farm. Address
J. B. ASHBY - - - - **AUDUBON, IOWA**

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's I Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND. - - **STORY CITY, IOWA**

20 Immune Duroc Jersey Fall Boars 20

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Everything has been vaccinated and are immune. Order at once. Address
GEORGE C. EVERTS - - - - **AUDUBON, IOWA.**

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address
F. H. DICKEY, EMMETSBURG, IOWA

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - **IRETON, IOWA**

38--Sol Frank's Duroc Jersey Boars--38

I AM offering 38 head of good spring boars; of the large, big-boned, quality kind, sired by **Sol's Crimson Wonder, Frank Holliday** and **The Harvester.** If you want a herd boar prospect, I have them. Prices $25.00 to $50.00. Mention Iowa Homestead when writing me. Address
SOL FRANK - - - - - - - **SIOUX CITY, IOWA**

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - - - **SYRACUSE, NEBRASKA**

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address **R. J. HARDING** - - - - - - - **MACEDONIA, IOWA**

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - **ALGONA, IOWA**

MENAUGH BROS.
Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & L., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - - **RIVERSIDE, IOWA**

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

Duroc Jersey Fall Boars

VACCINATED with the double treatment. Choice breeding lines. For sale at reasonable prices
L. L. DE YOUNG - **SHELDON, IOWA**

S. E. EAKLE & SONS,
PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfield's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,
P. W. WEBERG - **DENISON, IOWA**

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - **FAIRMONT, NEB.**

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - **DAVIS CITY, IOWA.**

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

POLAND CHINA SWINE.

50 Big-type Cholera Immune Poland China Boars For Sale at 25 Dollars Each

WE HAVE 50 HEAD of big spring boars **all big enough for service** that we are going to sell at **25 dollars each,** a price you can get for them on the market when you get through with them. **They are sired by the 1000-lb. Big Bone 2d, the 900-lb. Big Expansion, the 600-lb. yearling Chief Leader** and other boars **The dams are sows of the extreme size, weighing from 500-pound yearlings up to sows of over 800 pounds.** If you want one, send your check the first letter. We have made the price so you lose nothing if you want a boar. **We guarantee safe delivery. Guarantee them breeders.** Don't write us for a two-page description; we will answer no letters at this price, but guarantee you a pig worth the money if you want a boar. Address, mentioning The Iowa Homestead,

W. H. COOPER - - - - - - **HEDRICK, IOWA**

BIG BONE 2D 161497.

50 Head Hancher's Big-Type Immune Poland China Boars--50

I AM offering **fifty head** of as good boars as I have ever raised. These are all **immune** and are **ready to ship.** Sired by my 1,000-lb. boar, **Smooth Wonder 2d, Chief Price Jr.** and **Chief Again Price,** the Nebraska **State Fair Grand Champion boar.** These are out of my very best sows, viz: **Long Molly, Model Wonder, Long Molly 2d, Price Model 3d,** and other 700 and 800-lb. sows. These will make outstanding good boars and I am pricing them at **$30 to$50.** Get busy and order one of these right away. Mention Iowa Homestead when writing me. Address

M. P. HANCHER - - - **ROLFE, IOWA**

30 CHOLERA IMMUNE BOARS 30

Sired by my great boar, PAWNEE PRICE,

one of the largest and best big-type Poland China boars in the state. Everything **VACCINATED AND IMMUNE.** Write me for prices and description at once. Mention The Homestead and address

W. E. ZIMMERMAN - - - **NEOLA, IOWA**

HAMPSHIRE SWINE.

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. My herd is headed by Messenger Boy 6179, the undefeated grand Champion of 1912,

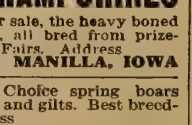
CLAYTON MESSENGER - - - **KESWICK, IOWA**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, **DE KALB, IOWA.**

Sunny Slope Hampshire Swine



200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead. **C. A. BROOK, WASHINGTON, IOWA.**

NISWANDER'S HAMPSHIRE SWINE

I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudio, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address

HOWARD NISWANDER - - - - - - **KINROSS, IOWA**

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address

WOOD & WESCOTT - - **SHEFFIELD, ILLINOIS**

EXCELLENT HAMPSHIRE BOARS

A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price that you can afford, write me. I can supply you. Mention The Homestead.

C. P. PAULSEN - - - - **NORA, NEBRASKA**

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

Fisher's Prize Winning Hampshires

THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address

ROY E. FISHER - - **WINSIDE, NEBRASKA**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address

J. E. BECKENDORF, **WALNUT, IA.**

TATRO'S PRIZE-WINNERS

HAMPSHIRE boars and gilts sired by Allen of Geneva and other high class boars for sale at moderate prices. I offer more prizewinning blood than will be found elsewhere and good individuals with it. Address

F. C. TATRO, **GENEVA, NEB.**

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address

Billie McFarland - - - **Syracuse, Neb.**

HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.

Geo. T. Pearce & Son - Bloomfield, Iowa.

Prizewinning Hampshires Some extra choice boars. Winners Neb. and Colo. fairs. Farmers' prices. Write at once. Address C. S. Bratt, Arapahoe, Neb

IMMUNE HAMPSHIRE fall and spring boars for sale. Write for description to H. C. Mehring, Manson, Iowa.

JONES HAMPSHIRES--- Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

HAMPSHIRE boars and sows. One yearling boar, heavy boned, well marked, weighs about 400 pounds. Price $50. Edw. Dooley, Selma, Iowa.

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address

E. S. McCANDLESS - THURMAN, IOWA

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when waiting. **F. O. Peterson, Galva, Ia.**

Gausman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.

C. H. GAUSMAN - **SEWARD, NEB.**

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address

A. L. DIEHL, BENEDICT, YORK CO., NEB.

TWIN CEDARS HAMPSHIRES

HAMPSHIRES all ages for sale, the heavy boned and profit-making kind, all bred from prize-winning boars at Iowa State Fairs. Address

PAUL WM. JAHN - MANILLA, IOWA

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address

L. F. TETER - SHICKLEY, NEBRASKA

HAMPSHIRE BOARS, SHROPSHIRE SHEEP and geese for sale. Mrs. Helen Coleman, Mt. Pleasant, Iowa.

Mention The Homestead when writing.

SPECIAL SALE POLAND CHINA BOARS BIG, SMOOTH ONES

WE offer for quick sale the following great boars. Nothing better to be found. An aged boar by Expansion, price $100. Prize Boy 65610, a Jan. yearling at $200. Grand Novelty 2d 65609, nothing better in the country; also a Jan. yearling at $500. Also 15 spring boars at from $20 to $40. These herd boars we offer are simply outstanding. Write us if interested and we will give you weights and measurements.

THOMPSON BROS. - - - - - **INDIANOLA, NEB.**

Poland China Boars---Bargains for Quick Sales

I HAVE a dozen spring boars, big, growthy, big bone and good quality that I will sell at mighty low prices if taken soon. Must have room. Address, mentioning The Iowa Homestead.

J. H. COPE - - - - - - - - - - **CARLISLE, IOWA**

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address

C. H. PORTER **"Oakwood Farm Poland Chinas,"** **EAGLE GROVE, IOWA**

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART** - - - **HARLAN, IOWA**

AN EXCELLENT HERD BOAR FOR SALE

ONE of the very best Poland China boars within the state. A proven breeder, excellent make up and of splendid pedigree. Competent judges pronounce him absolutely as good as to be had. Also spring boars sired by him. Write me today for breeding and prices. Mention The Homestead

J. A. JACKSON, - - **RAYMOND NEB.**

POLAND CHINA FALL PIGS AT $15.00 EACH

FALL pigs sired by the great Poland China boar, Hillcroft Model; also by Big Martin by the champion Big Tom, are for sale at $15 each at ten weeks old. These are from prize-winning sows. All of the highest order. Also some spring boars and two choice fall boars. Write me if you want something choice and worth the money. Address **G. A. KISSINGER, MILFORD, NEBRASKA**

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices. Address

JOHN I. DRIPPS - SPRINGVILLE, IOWA

FRANCISCO'S

Combination Polands

SOME very fine spring boars by Young Combination, also some extra select fall boars by Great Victor. Only the best have been reserved, and they are priced to move. Write me for a bargain.

C. W. FRANCISCO, **INLAND, NEB.**

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.

JOHN H. FITCH - - -LAKE CITY, IA

POLAND CHINA BOARS

LARGE, vigorous, mellow fellows of quality, spring and summer farrow, and a few summer gilts, all by Imp's Masterpiece by Impudence. Will sell Imp's Masterpiece as I am keeping his daughters. All priced to sell. G. H. Drake, Cole Camp, Mo.

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.

Not the originator, but the preserver.

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

20 Immune Poland China Boars

ONE two-year-old, 3 fall yearlings, 16 spring farrow. Big type. Well grown. 3 Polled Durham and 1 Short-horn bull.

W. H. Barr & Son, - - - Villisca, Iowa

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

Big Poland China Boars FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.

O. J. SATRE - - - JEWELL, IOWA.

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

Six Fall Boars

By the Great Giant King Some by Jumbo (by Big Jumbo)

AND 40 fall yearlings and gilts, the best known to the Poland China breed.

G. F. MARSHALL & SON, MONROE, IA.

BIG-TYPE POLAND BOARS

20 FALL BOARS weighing 300 to 450 pounds, sired by the 1,000-pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. My herd has been immuned with the double treatment. Mention The Homestead when writing.

E. W. KREISCHER, MT. VERNON, IOWA

POLAND CHINA BOARS FOR SALE

WE have thirty fall Poland China boars weighing 200 to 250 each at $35 to $40 each; and twenty-five spring boars at $15 each. From sires and dams that passed through the cholera two years ago. Have been a breeder of Polands for thirty years and certainly can please you. Address

J. O. Walton - - - Belle Plaine, Iowa

FALL PIGS by LONE GIANT

ALSO some by Big Bone and Baird's Choice and from an excellent line of sows that I will sell at $10 to $15 per head while they last. A grand opportunity to get the blood of the best and at small cost. **G. B. Van Kleek, Central City, Neb.**

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - COON RAPIDS, IA.

40 SPRING AND FALL BOARS 40

THE stretchy, smooth coated, mellow kind, sired by Orange Boy (son of Big Orange). This is big-type Poland China breeding without roughness—the Expansion kind. Cut prices. Good health.

M. G. Arnold & Son, Strawberry Point, Ia.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once

A.B.Heckenlively - - - Cozad, Nebraska

FOR SALE

50 BIG-TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., Rt 2, Box 76, Lawler, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires: Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

POLAND CHINA SWINE.

FESENMEYER'S BIG-TYPE POLAND CHINA BOARS

I STILL have a few of those **A Wonder** and **Big Joe** spring boars left and I am selling them out at live and let live prices in order to make room for fall pigs. Write me about these pigs at once and mention The Homestead. Address

HENRY FESENMEYER - - - - **CLARINDA, IOWA**

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $375 and $335 spring boar in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 750 and 800 pounds. We want to sell these boars and we are pricing them at from **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - **CLARINDA, IOWA**

BLUE VALLEY HERD OF POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for discription and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

BLUE RIBBON POLAND CHINAS

FOR the next thirty days I will name a price on the choice of my forty Poland China spring boars of $25. Others just as good but a little younger at $20. This is not money enough for this class of hogs, but I have them to sell and want them to go quick. They are all sired by Blue Ribbon Hastings, a prize-winner wherever shown. If in search of something toppy and at small money, write me. Mention Homestead.

W. J. EAVEY - - - - **GENEVA, NEBRASKA**

POLAND CHINA BARGAINS

AM making special prices to move the choice bunch of early spring boars on our farm. They are great big, smooth fellows of excellent breeding and go at $25 and $30. Also the finest kind of a bunch of fall pigs that go at $12.50 for choice ones at weaning time. Address today, mentioning The Iowa Homestead,

JOHN L. NAIMAN - - - - - **ALEXANDRIA, NEB.**

THE CHAMPION AGAIN EXPANSION

HEADS our Poland China herd. We have some of the best spring boars that we ever raised for sale. They are by Big Bone, T. A. Sampson, Again Expansion and Mabel's Wonder. Everything has passed through the disease. None better anywhere and prices the lowest. Address

C. B. POWERS, - - - **AURORA, NEB.**

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead.

WM. KEEP - - - - - **ATLANTIC, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.

A. ROESLER, - - - - **WILCOX, NEB.**

EXTRA BIG, IMMUNE POLAND BOARS

WE have for sale a very choice lot of big, heavy boned boars, sired by Herod 2nd, and also some few litters bred by Peter Mouw. These Herod 2nd pigs are headers for the top herds. If in search of the extra big, also the smooth sort, write me. Mention Homestead and address

W. H. DEIGAN - - - - - **RAYMOND, NEBRASKA.**

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - **OCHEYEDAN, IOWA**

SPRING BOARS by NEBRASKA WONDER

OUR entire spring crop of Poland China boars for sale at private treaty. These are fully equal to the sensational lot of fall boars we sold last spring. They are from as good stock as within the state. Write us today and we will try to save you some money. Address, mentioning The Homestead.

BEALL & JACKSON - - - - - **ROCA, NEBRASKA**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - - - **MINDEN, NEBRASKA.**

BIG-TYPE POLANDS

I HAVE a grand lot of March and April boars and gilts sired by **Quality King,** a grandson of Long King and **O. K. Price,** by Chief Again Price, also a few open yearling sows. I breed for size and quality. Herd largely of Mouw, Lawson, Johnson and Wheeler breeding. My prices are low and my hogs will please you. Mention Homestead when writing.

H. CRABTREE, - - - **BAXTER, IOWA.**

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 184793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson o Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - - **LISBON, IOWA**

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495.

DAVENPORT & MACK, BELMOND, IOWA

McCurdy's Giant Polands

SOME of the biggest, heaviest boned boars to be found anywhere, and they are of the very largest breeding. If you want big ones that are smooth, write me. I will save you money. Address

WM. McCURDY - TOBIAS, NEB.

FOUR HIGH-CLASS Poland China Fall Boars

I AM offering four splendid fall boars for sale, sired by the 1,000 lb. boar, **Big Orange,** and **Colossus.** Two of these are out of Colossus and A Wonder dams and two are out of a Giantess dam. Also thirty spring boars by Big Orange and Colossus. Write me for prices and mention Iowa Homestead. Address

L. R. M'CLARNON - - - - - **BRADDYVILLE, IOWA**

HALFORD'S BIG-TYPE POLAND CHINA BOARS

I AM offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great prize-winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of Long Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address

R. W. HALFORD - - - - - **MANNING, IOWA**

20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1 at $15 each.

H. E. BURGUS - - - **Route 6** - - - **OSCEOLA, IOWA**

ELLERBROEK'S POLAND CHINA BOARS

30 SPRING boars, large, heavy-boned fellows, sired by **A Wonder 143421, Longfellow Again 170275** and **Peter's Jumbo,** and out of dams of equal big breeding. 12 fall boars, extra good, big ones, by **A Wonder A 176989** and **Longfellow Again.** Herd successfully treated with simultaneous method. 200 head in herd. Nine ribbons at recent Sheldon fair. Living prices.

MRS. PETER ELLERBROEK & SONS - - - - **SHELDON, IOWA**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them over or write. Address

J. R. HIGGINS & SON - - - - - - - **DEWITT, NEB.**

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - - - -

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

- - - - - - - - - - **KELLEY, IOWA**

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address

J. A. BEAUMASTER, ELMA, IOWA

SNYDER'S EXTRA BIG POLANDS

A CHOICE lot of extra big spring boars by well-known sires and out of sows of choice individuality and blood lines. I wish to close these boars out within the next thirty days and am pricing them accordingly. If you want big hogs for little money write me.

PERRY A. SNYDER - - - - **CARLETON, NEBRASKA**

MARMION'S BIG POLAND CHINAS

I CAN furnish you with as good a pig as can be found in the corn belt. Pigs sired by five of the best boars of the breed, some by one of the good sons of Rood's Giant and out of a Long King sow. Also a litter by Big Knox.

B. F. MARMION - - **R. F. D. 2, FARMINGTON, IOWA**

35 Choice Poland China Boars 35

I AM offering 35 head of the best big-type Poland China boars I have ever raised. These go at reasonable prices if ordered soon. Address, mentioning The Homestead,

FRED SEXSMITH - - - - **ORIENT, IOWA**

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - - **R. F. D. 1, YORK, NEBRASKA**

Poland China Spring Boars

BY Again Chief Price 192035, 2nd prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE **MAQUOKETA, IOWA**

PROCHASKA'S BIG-TYPE POLANDS

FALL and spring boars at bargain prices, sired by Smooth Wonder Yet, Matchless Charmer, Pawnee Jumbo. The best of blood lines. Satisfied customers in seven different states. Try me.

J. J. PROCHASKA - PROTIVIN, IOWA

BIG-TYPE POLANDS

FALL and spring boars now ready to ship. Sired by Highland Boy 183191, weighing 800 lbs. just in breeding condition. My hogs are bred for size, bone and quality. Write me your wants and I can please you.

H. A. Wohlsdorf, - R. 1, Lawler, Iowa

30 CHOICE BIG TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D 189573, a son of the great A Wonder 107363.

William Drummy - Ryan, Iowa

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Big Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - GRINNELL, IOWA

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

BOYS AND GIRLS---SEND YOUR NAME AND JOIN OUR SHETLAND PONY CLUB

"Joe"
Given to Harold Palmer
Oswego Co., N. Y.

"Heinie"
Given to Clar. Niemoeller
Bartholomew Co., Ind.

"Jerry"
Given to Cleta Johnson
Douglas Co., Kans.

"Dapple"
Given to Ernest L. Heckert
York Co., Pa.

"Empress"
Given to Avery Knight
Chickasaw Co., Iowa

"Duke"
Given to Dorothy L. Eagle
Jackson Co., Mo.

"Sport"
Given to Fred Hagerman
DuPage Co., Ill.

"Jewel"
Given to Arthur Marode
Douglas Co., Neb.

THE MOST WONDERFUL CLUB IN THE WORLD

THE FARMER'S WIFE SHETLAND PONY CLUB of St. Paul, Minn., is the most wonderful club in the world for boys and girls because it gives away Shetland Ponies free to its members. Already over 126 boy and girl members have received real Shetland Ponies and Outfits worth about $250.00 each. If you haven't any Shetland Pony, now is your chance to get "BEAUTY" and her splendid Outfit, the next pony to be awarded to a new member of the Pony Club. All you have to do is to send us your name and address and we will tell you how to join the Shetland Pony Club and get "BEAUTY" for your own. It doesn't cost a single cent to join this Pony Club, the members pay no dues and the Shetland Ponies are given free to the club members who show they are the most deserving.

Notice we print the pictures of 8 lucky children and their ponies we have given them and also the names of 30 more—all we have room for—so you may feel sure we give away real, live Shetland Ponies. Perhaps some of these 126 lucky children live in your county or a county near you and if so you probably know them because our lucky pony winners are now the best known children in their locality. However, it doesn't make any difference where you live, all you have to do is to send us your name and if you are the lucky member to get "BEAUTY" the next pony we are going to give away, she and her whole outfit will be shipped directly to your home without a cent of cost to you. We can't explain our whole Pony Club plan here but we have a great big surprise for you that will double your chances of being the lucky member to get a pony if we hear from you right away.

HERE ARE THE NAMES OF A FEW OF THE 126 MEMBERS TO WHOM WE HAVE GIVEN PONIES

"Zip,"	Ella Fullam, Randolph Co., **Vermont**	"Toots,"	Isabelle Whitcraft, Baltimore Co., **Maryland.**	"Scotty,"	Catherine Rohrbeck, Pacific Co., **Washington.**
"Roine,"	Clarence F. Busick, Adams Co., **Indiana.**	"Andy,"	Alfred H. Brown, Teton Co., **Montana.**	"Bob,"	John B. Corn, Jr., Pulaski Co., **Arkansas.**
"Beppo,"	Larue C. Wertman, Carbon Co., **Pennsylvania.**	"Star,"	Clarence Grover, Polk Co., **Minnesota.**	"Tramp,"	Keith Walker, Juneau Co., **Wisconsin.**
"Jim,"	Joey Edwards, Barton Co., **Kansas**	"Patsy,"	Rena Smith, St. Lawrence Co., **New York.**	"Early Bird,"	Edwin Larson Worcester Co., **Massachusetts.**
"Busy,"	John H. Albrecht, Jr. Camden Co., **New Jersey.**	"Dixie,"	Walter McLaren, Moody Co., **South Dakota.**	"Stubby,"	Harold Quick, Jefferson Co., **Kentucky.**
"Toby,"	George Lynch, Lake Co., **Illinois.**	"Luiu,"	Louise Damron, Benford Co., **Virginia.**	"Cub,"	Eugene Mumpower, Buncombe Co., **N. Carolina.**
"Pippin,"	Doris Navarette, Fairfield Co., **Connecticut.**	"Sonny,"	Elmer Hoth, Allamakee Co., **Iowa.**	"Bingo,"	Jeanette Lansing, Dixon Co., **Nebraska.**
"Jean,"	John H. Elrod, Smith Co., **Tennessee.**	"Fritzie,"	Marie and Margie Parker, Knox Co., **Illinois.**	"Dainty,"	Gladys Ellwood, Franklin Co., **Vermont.**
"Captain,"	Ida O'Keefe, Mountrail Co., **North Dakota.**	"Chum,"	Bozzie F. Thornton, Mercer Co., **West Virginia.**	"Foxy,"	Charles F. McCoy, Story Co., **Iowa.**
"Roxy,"	Eldon Crego, Madison Co., **Ohio.**	"Mac,"	Ruth Mead, Saline Co., **Missouri.**	"Flo,"	Lloyd Thomas, Allen Co., **Ohio.**

WE WILL GIVE YOU THIS PONY FREE

Or SOME OTHER BOY or GIRL

A DAUGHTER OF A PRIZE PONY WE GAVE TO ONE OF OUR CLUB MEMBERS

"BEAUTY" is a dear spotted Shetland Pony, pure bred and registered and the most romantic pony we ever gave away. "Beauty" is the daughter of "Evangeline" whom we gave to Gladys Houx of Saline County, Missouri, who was one of our Pony Club Members in October 1910. Gladys tells below her picture in the lower right hand corner of this page how she found "Beauty" as a little colt in April 1911. "Beauty" is the first pony we ever gave away which was raised by a member of the Shetland Pony Club so you see that we not only give away Shetland Ponies to club members but we also buy ponies of members and pay well for them when they are old enough to be given to new members of the Pony Club. You never heard of a club like this before, did you? Our club motto is "A Shetland Pony for every boy and girl" and if you just send us your name and address (don't send any money, not even a postage stamp) you will have as good a chance as anybody to get "Beauty" and probably in two years or so we can buy a pony of you to give to another new Club Member.

This is "Beauty" and Her Elegant Outfit

THE OUTFIT we send along with "Beauty" is the finest and most complete pony outfit that money can buy—pony, buggy, harness, saddle and bridle. The buggy is about the prettiest and easiest riding pony vehicle made and the handsome nickel trimmed harness set off "Beauty" to best advantage as it is a real Shetland Pony harness. Then the hand made saddle and real Indian horse hair bridle complete this wonderful Outfit. The bridle is the most beautiful one you ever saw or heard of. It is made especially for us by an old cowboy at Deer Lodge, Montana, and it takes him and his pardner two whole weeks to weave it out of beautifully colored horse hair,—red, blue, green, black, white and yellow—woven into remarkable Indian designs and mounted with colored rosettes and the horse hair reins ending in a real cowboy quirt. No matter how rich a child's parents might be they could not buy him a handsomer pony or more complete Outfit than "Beauty" and her Outfit which we will send free to some lucky member of our Shetland Pony club.

SEND US YOUR NAME TODAY IF YOU WANT TO OWN "BEAUTY"

Mail This Coupon Today or Copy on Post Card

THE FARMER'S WIFE PONY CLUB
305 WEBB BLDG., ST. PAUL, MINN.

I want to be a member of your Shetland Pony Club. Please send me pictures of "Beauty" and the romantic story of her life. Also tell me how to take care of Shetland Ponies. I haven't any pony and want to own "Beauty."

Write Your Name and Address Here

"Beauty," 3 Weeks Old

Name.....

R. F. D.....

P. O.....State.....

GOOD FOR 1,000 VOTES FOR "BEAUTY"

As soon as we hear from you we will explain our Pony Club plan and tell you how to go ahead and get "Beauty". This darling little pony—whose "Mama-Pony," "Evangeline" we gave to Gladys Houx, (picture of whom you will see on the lower right hand corner of this page) is surely going to some new member of our Pony Club who has never yet received a pony. Don't let anybody persuade you that you cannot become the proud owner of "Beauty" because our plan of giving away ponies is different from others. The fact that we have already given ponies to 126 Pony Club Members all over the United States, from the state of Vermont to the State of Washington, is proof that we do as we say. The Webb Publishing Co., publishers of The Farmer's Wife, has been established for 30 years and is one of the largest publishing firms in the United States, so your bank or postmaster will tell you that we can well afford to give away ponies to boys and girls who are members of our Shetland Pony Club to advertise our papers. We never heard of any of these 126 children until they wrote and told us they wanted a pony so you should send us your name and address at once to join the Pony Club if you want us to send you "Beauty."

A PRIZE FOR EVERY PONY CLUB MEMBER.

Every single child who becomes a member of our Pony Club will receive a handsome prize of his own choosing. Besides "Beauty" and her Outfit (and the Big Surprise we have for you) we will give Bicycles, Diamond Rings, Sewing Machines, Rifles, Cameras, Gold Watches, Music Cabinets and many other wonderful rewards that you never could get until now. We would like to give prizes to every boy and girl but we can only reward the few who send us their names and become members of our Shetland Pony Club and one of you will surely get darling little "Beauty" and her whole Outfit, so be sure to send us your name now before it is too late.

BE SURE TO ADDRESS YOUR POST CARD OR ENVELOPE TO

The Farmer's Wife Pony Club,
305 WEBB BUILDING, ST. PAUL, MINNESOTA

Gladys, "Evangeline" and "Beauty"

"I want to tell you something about 'Beauty.' You see the Webb Publishing Company really gave me two ponies. First they sent 'Evangeline' to me in October, and then one morning in April, Dan, the hired man, called mamma and said a little stranger was in the barn. You can imagine my surprise and delight to find that 'Evangeline' had the dearest little colt. We named her 'Beauty.' Pony colts are worth lots of money, so I am getting rich.

"This year 'Evangeline' had another little colt, so papa said, 'Why can't we make some other little boy or girl happy by selling 'Beauty' to The Farmer's Wife for them to give to some member of their Shetland Pony Club?' We all thought that was fine and arranged it with the Pony Editor of The Farmer's Wife. 'Beauty' is such a dear little pony that we are awfully glad she is going to some member of the Pony Club and I do hope the lucky member who gets 'Beauty' will be very good and kind to her.

Your little friend,
GLADYS HOUX.

Saline Co., Mo.

Reading Room
Agricultural
Urbana Ill

The Iowa Homestead

VOL. LVIII. NO. 44. DES MOINES, IOWA, OCTOBER 30, 1913. WHOLE NO. 2925

Harvest Queen

Maxwell Motor Cars

We make them better—sell them for less—that's why they're leaders

Ask Dun's, Bradstreet's, Or Your Own Banker

NOW, MORE THAN EVER BEFORE, it behooves the dealer and the buyer to look carefully to the financial stability of the automobile manufacturer whose car he contemplates owning.

THERE HAVE BEEN SOME occurences of late that should serve as a warning in this regard. On the other hand, there hasn't been a failure that wasn't scheduled. They were foreordained from the first—inevitable.

SOME WERE OVER-DUE, in fact. Thanks to the splendid demand for cars, which we and other responsible concerns were unable to supply in full, some of them were accorded a longer lease of life than their product or experience or financial backing entitled them to.

THERE WAS NO EXCUSE, however, for any buyer being in ignorance of what impended. That was easily foreseen.

LET US SUGGEST that now, you who are in the market for a car, look into this matter as it deserves. You owe it to yourself—and us.

ASK BRADSTREET'S OR DUN'S. Or if you are not a subscriber, ask your Banker to investigate and inform you. He will do it gladly.

ASK HIM WHICH ARE the five financially strongest automobile manufacturers.

YOU WILL FIND that the Maxwell Motor Company is one of the five—and it will not be fifth in point of stability either.

HAVE HIM ANALYZE the latest financial statements of these five strongest and tell you which have the greatest amount of assets in proportion to liabilities—including bonded indebtedness, etc., of course. We think he'll tell you the Maxwell Motor Company is one of the leaders.

PERHAPS YOU DIDN'T KNOW—there's been so much confusion in this matter—that the Maxwell Motor Company has no connection whatsoever with the late Maxwell-Briscoe Company except that this concern purchased, through the U. S. Courts, all the assets, not only of that, but of several other concerns.

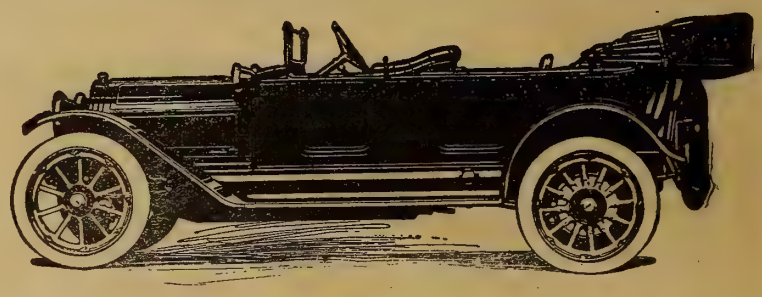
WE STARTED WITH A CLEAN SLATE—with plants worth many millions, with ample cash on hand to take care of our manufacturing operations, etc.

WE HAVE NO BONDED INDEBTEDNESS—no outstanding notes or debts of any kind except current open accounts not yet due.

AND TODAY WE ARE nine months old with orders on our books for more than thirty thousand cars.

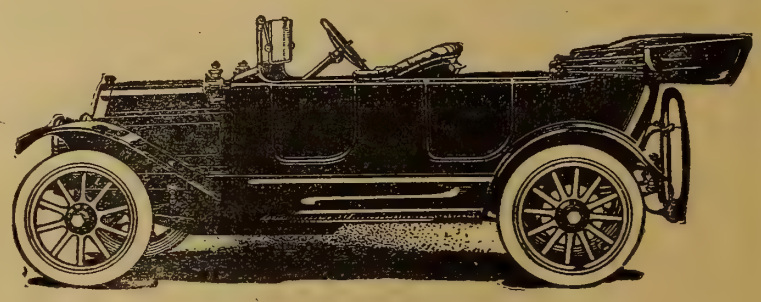
HAS THAT RECORD EVER been surpassed in this industry? We submit the account of our stewardship—ask Bradstreet's, Dun's or your Banker for further particulars regarding the operations and stability of this Company.

THEN YOU'LL FEEL SECURE on that point and, when you compare the cars as carefully, there will be only one answer, "Yours will be a Maxwell."



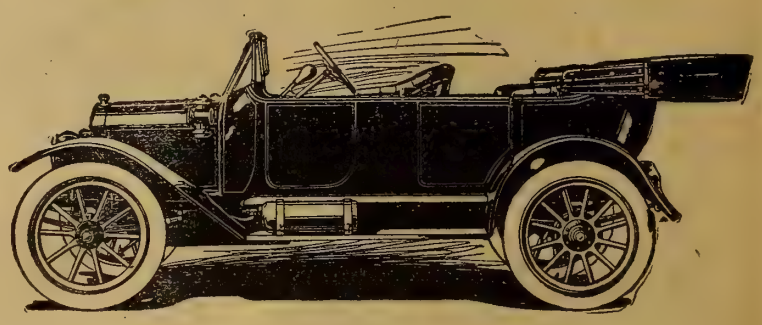
1914 MAXWELL "50-6"—$1975

The sweetest running thing on wheels. Six-cylinder motor, bloc-cast, 50 H. P.; 130-inch wheel base; electric starter and lights; Bruce Ott body; 5-7 passengers; disappearing seats; 36x4½-inch tires all around. Luxuriously finished; long, easy-riding springs and full equipment including ventilating windshield, top and Jiffy curtains—even an electric cigar lighter. Left or right side drive optional.



1914 "35-4"—$1085-$1225

Powerful, silent, sweet running; bloc-cast 4-cylinder motor; 111-inch wheel base; 33x4-inch tires all around. Left hand drive, center control. Electric starter and lights, at $1,225. Three-quarter elliptic springs. Bruce Ott body, ventilating windshield and full equipment, including Jiffy curtains.



1914 MAXWELL "25-4"—$750

The year's sensation. Four-cylinder, bloc-cast; 25 H. P. motor; magneto; weight, 1,600 pounds; 103-inch wheel base; 30-3½-inch tires all around; 3 speed selective transmission; full five-passenger body designed by Bruce Ott; complete equipment, including tire holders, windshield, top, Jiffy curtains.

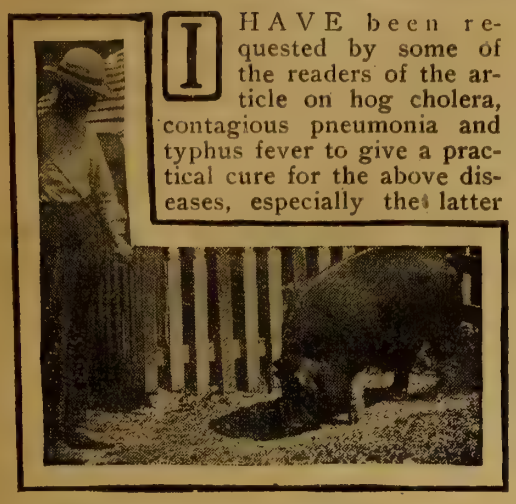
MAXWELL MOTOR COMPANY, Inc.

DETROIT, MICHIGAN

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, OCTOBER 30, 1913.

Treatment For Hog Cholera, Contagious Pneumonia and Typhus Fever



A HEALTHY PIG.

By A. L. Beverly, D. V. M.

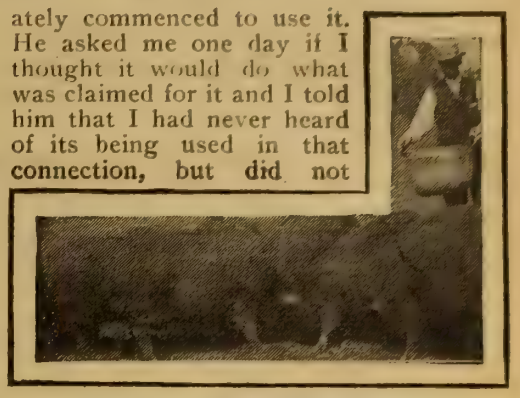
I HAVE been requested by some of the readers of the article on hog cholera, contagious pneumonia and typhus fever to give a practical cure for the above diseases, especially the latter two, when associated with cholera. These diseases when associated with cholera, which is the way they are generally found, run such a rapid course that any medicinal treatment is useless. Noted German authorities, when treatment is possible, recommend large doses of calomel in order to disinfect the stomach and intestines by the perchloride of mercury that is formed.

I have tried this treatment in several herds where these diseases were present with cholera to such an extent that vaccination was not deemed advisable. One herd in particular was treated at the very outset of the outbreak after only two or three pigs had died. This herd numbered about seventy head, averaging in weight about sixty pounds. Large doses of calomel were given; that is, about fifty grains per hog, fed in the slop every other day. These hogs seemed to do very well for a short time and, in fact, about thirty of them remained well for a period of three weeks. This so encouraged the owner that he told everyone in the country that he talked with about the remarkable cure of his hogs. The result of this was that a great many who had sick hogs commenced to use the calomel treatment. I had instructed this man as to what I was using, and cautioned him not to say anything about it unless he was sure he was receiving some benefit from the treatment. No doubt after his hogs did so well for that short period of time he concluded that he was safe, but they soon commenced to die and he informed me the last time I talked with him that he did not think he would save a single hog.

This illustration is given not because I have any faith whatever in the calomel treatment, but to show how careful a farmer must be lest he be misled into using something that he will derive no benefit from. Doubtless many farmers would have vaccinated had they not placed so much confidence in the cheaper treatment.

I have heard of many miraculous cures during the past summer. One man said that he saved his by using strychnine. Upon investigation I found that he had one hog left out of a herd of ninety. Another man claimed to have cured his by feeding large amounts of carbonate of ammonia. I tried this on several herds with no results whatever. These incidents should prove to you that when you hear of some remarkable cure, in 99 per cent of the cases, when the facts are obtained, there is no foundation to them whatever.

Another case was brought to my attention where a farmer read that a certain fluid extract would prevent cholera and its allied diseases. At the time this man had healthy hogs and he immediately commenced to use it. He asked me one day if I thought it would do what was claimed for it and I told him that I had never heard of its being used in that connection, but did not think he would get any benefit from it. This man spent about $25 for this drug, which was fairly high priced, and he afterwards lost every hog on the place.



FEEDING ON PASTURE.

I will say here that I do not know of any medicinal treatment that will cure these diseases which are associated with cholera, and I do not believe that anyone else does at the present time.

Typhoid fever in the human and hog cholera are very similar in form. Imagine trying to cure a case of typhoid fever and pneumonia together with some of these fool remedies. There is considerable to combat in the combination of these diseases and it is utter fallacy to expect to rout them by using some of the cures just named. No doubt there are hundreds of others just as inefficient and which are being used every day in the vain hope of curing their hogs.

There is only one preventive and cure that to my mind will give any results and that is vaccination. This probably sounds queer to recommend vaccination when another disease is present with cholera, but nevertheless good results may be obtained. When a farmer has a healthy herd of hogs and he vaccinates when they are in that condition he stands a small chance of losing his hogs with any of these diseases, the reason for this being that cholera seems

(Continued on page 19)

A GOOD MOTHER IS THE FOUNDATION OF THRIFT IN THE LITTER.

THE FEED YARD IS A MEDIUM FOR THE DISTRIBUTION OF DISEASE GERMS WHEN ONCE THEY FIND LODGING ON A FARM.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second-class matter

PUBLISHED EVERY THURSDAY

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

BEWILDERING HOG TROUBLES.

The following communication has been received from one of our Iowa subscribers, Mr. S. H. Best:

I think the article in a recent issue of your paper written by a licensed veterinarian is an indictment of the veterinary profession. He claims that the failure of the hog cholera serum is not due to the serum, but to the hogs having the wrong disease. We have been using the serum here with varying results. It is always administered by veterinarians licensed by the state. We farmers have been lenient with them when the treatment was not successful, laying the blame to poor serum. Now we admit it is gratifying after we have employed a veterinarian, paid him and paid for the serum and lost our hogs to be told that the trouble is not with the serum, but the hogs, of course, never with the veterinarians. If, as this writer says, the serum is all right, then the trouble must be with them. We acknowledge our ignorance by employing a veterinarian. We feel the same as we imagine they would feel if after consulting the family doctor for the toothache and receiving no relief, they were informed that he had prescribed for their corns and not the toothache. If, as this article in question claims, 50 per cent of the hogs of the state and 75 to 90 per cent in Hamilton county died of typhus fever, why don't they devote part of their efforts to a preventive for that disease?

It must be conceded that, taking all things into consideration, there is at the present time a general mixup on the whole question of swine diseases. It seems that there is a very marked difference in the manner in which different communities are affected. It is reasonable to suppose that typhus fever, for example, might destroy thousands of hogs in a given community and yet in a neighboring county a calamity of equal proportions may result from the spread of cholera. It is, therefore, a question of being able to diagnose before the disease can be successfully handled and on this point it may be said that the United States government and the experiment stations are putting forth their best efforts to prevent the spread of all types of swine diseases. To the man who is losing his hogs the results so far may seem discouraging, but as a matter of fact progress is being made and what has already been accomplished gives promise of even better results in the future.

DEMANDING MORE PAY.

The leading railways of the country are still kicking, or, to use a more dignified term, still protesting, because the government is not paying them more money for hauling mails. A few years ago when Congressman Victor Murdock was investigating the price paid the railways by the government he showed quite clearly that the railways were not only being paid a higher rate for hauling Uncle Sam's mails than they demanded for hauling express, or any other kind of merchandise, but that through fraudulent practices on weighing days the government was actually paying for mail which was never hauled. At that time the railroads had nothing to say about the mail service and doubtless would have nothing to say now, but for the fact that the parcel post is taking business away from the express companies in which the railroads are interested. Naturally they want to get the money back somehow and as Uncle Sam has been an easy mark for so long they seek to increase the rate. Besides enriching them, an increase in rates will do more than anything else to injure the farmer's friend, the parcel post, which is at present making so much money that its maintenance seems assured. If the railroads are really underpaid for hauling the mails they should be paid more, and that they will be paid more if it is justly due them is assured by the fairness for which the American people are famed. And if they are carrying the mails at a loss, as they maintain in a recent circular, why do we, every year or so, see the great transcontinental lines rushing trains across the country at break-neck speed in an effort to make a new time record and thereby secure the new contract for carrying the United States mails? Whatever may be the outcome of the railroads' protests we should see to it that nothing happens to the long-delayed, universally-appreciated "passle post."

RAPE IN WINTER WHEAT.

A subscriber who is growing a large area of winter wheat asks concerning the advisability of sowing rape seed on wheat land this fall or early in the spring. It is his intention to use the stubble land for sheep pasture next year.

This plan is practicable, but under no circumstances should the rape be seeded in the fall. It is just possible that the seed might lie on the ground during the winter without injury if it were sown after the period of growth has ceased, but in case the seed should germinate the crop would be killed then and there. In the case of spring sowing we would not advise seeding it until the wheat had made a spring growth of two or three weeks. When rape is seeded in any kind of grain there is always a little danger that it might outgrow the main crop, in which case it is difficult to harvest. For that reason when rape is sown with spring grain it is advisable to wait for a period of two or three weeks after sowing the grain before seeding the rape. This does not apply in the case of winter wheat because the crop really has a start, but nevertheless it is advisable to delay seeding for a short time so it may be assured that the wheat crop will keep ahead of the rape.

We would advise harrowing in the seed in this case, because this will do no harm to the winter wheat and it will cover the seed so as to insure a much better stand of rape.

DESTROYING RATS AND MICE.

An Illinois subscriber gives an outline of his methods of ridding the premises of rats and mice, in the following communication:

There are many ways of ridding the farm premises of rats and mice. Trapping, poisoning and the keeping of a few good cats and a good rat dog are some of the chief ways of getting rid of them. Also we can use ferrets. The ferret will enter holes and other places that cannot be reached otherwise, killing or running out the rats. A few hunts with a well-trained ferret will rid a place of rats completely.

As rats are very wise, one need not expect to have success all the time with one method, but should change from one to another. I have caught a great many rats and mice in the common steel traps by setting them in their runs or places most visited by them and baiting with a piece of meat tied on the pan of each trap. After they became shy of this I would move the traps to new places and cover them with pieces of paper, straw, etc., and then scatter corn, meal or wheat over the set. In this way I would succeed in catching some more. Wire traps are even better than steel traps. We have had as high as ten in the trap at one time. Catching them in barrels, with water concealed by a covering of chaff or bran, will catch a few, but the old rodents are usually too cunning for such traps.

Poisoning is somewhat dangerous to other lives and often offensive scents follow, yet it is often necessary to resort to the poisons. One should be as careful as possible with them, placing them under buildings or in the rats' runs where the chickens, pigs and calves cannot get at them and there will not be much danger from their use. Patent poisons are sometimes readily eaten by the rodents; at least we have been successful in using them. Arsenic put on cheese will attract them. Wheat or corn soaked in a solution of strychnine water and then dried and scattered in their haunts will get some also. And sometimes we sprinkle concentrated lye in their runs. The moisture of the ground dissolves the lye, and when they step into it it burns their feet. Some say that they will then lick their feet and thus get it into their stomachs, thereby killing them. I cannot say whether it kills them or simply makes them leave the premises, but I do know that their numbers diminish soon after the lye is put out. Plaster of Paris is yet another remedy against rodents. Mix together well one pound of plaster of Paris and three pounds of coarse corn meal, and put where the rats can have access to it. They eat this greedily and get thirsty, and when they drink the mixture hardens in the stomach and kills them. This should be put out in dry weather where it will not get wet, and where there is little danger of anything else getting it.

Cats can render valuable service in the warfare against rats, as well as mice that are ensconced in harbors that cannot be reached. The house can be kept clear of mice easier and better with the aid of one or two good cats than in any other way. In this way the mice are gotten away with immediately and there is no offensive reminder afterwards, as is the case if poison is used, when the odor from the dead mice is worse, if anything, than the trouble caused by the live ones. A good cat around the barn will beat a trap every time and will pounce on many a rat that ventures from his harbor for a moment. Cats will destroy young rats, up to the half-grown size, by the dozen and thus prevent their propagation. Not many cats will kill grown rats, although some few will. There are cats and cats; some tabbies are not worth their feed. But the ones that will put in most of their time faithfully hunting rats and mice are well worth keeping and deserve good treatment. Two to remain at the barn and one at the house will prevent much increase of the rodents, if, indeed, the cats do not exterminate them completely.

Concrete is a great enemy to rats when made into floors. When a plank floor is torn out, if it be replaced by one of concrete, there is one less home for rats. In my part of the country a great many concrete floors have been laid within the past few years (all new buildings that have gone up have concrete floors), and all who have them testify that they are bothered but little by rats; in fact, they haven't any of the pests unless there are some outside harbors for them. All farmers, of course, are not in a position to have concrete floors in all their barns, granaries, sheds, poultry houses, etc., but many more will have them in the course of time.

Whatever the methods adopted, wage a constant warfare against the rodents. This is the only way ever to rid a place of them. They cannot be exterminated or even materially reduced in numbers by giving them a "round" only occasionally. And if left alone they will eat one out of house and home.

It is a well-known fact that millions of dollars' worth of grain are annually destroyed around granaries by rats alone. And one discouraging feature about the fight against these pests is that they so freely migrate from place to place that it is almost necessary to have neighborhood action rather than to make an individual one. This is a matter that has been taken up in some instances by rural clubs whereby the interest of every man in a given community has been enlisted, the outcome being an almost absolute cleanup of the rodent tribe.

SOME SUCCESSFUL RURAL CLUBS.

The following communication received from a Wisconsin subscriber describes somewhat in detail what has been accomplished in various communities by the establishment of rural clubs:

Live, enterprising clubs are strong links to tie the young man and the young woman to the farm, and to make the older ones appreciate the manifold advantages of rural life. In Wisconsin, where so many innovations in agriculture have originated, several organizations or clubs are paving the way for a better country life. At the country life conference last February, the work of these was taken up in detail and some interesting experiences were related.

Woman, especially, has been the chief sufferer through social isolation. About all she had to fall back upon was the church, whereas her husband had his political life, his better farming clubs, his saloon, and frequent trips to town. That the farm woman is capable of solving her social difficulties, however, was brought out by Mrs. David Haddow in her description of the Home Culture Club, of St. Croix county.

One busy farm woman near River Falls, troubled by a growing lack of neighborliness in her community, broached the subject of a study club, with a definite purpose of self-improvement. The idea was received with enthusiasm despite the busy lives of these women, eight responding to the first call. From the beginning the club was successful.

None of the members were college women and nearly all wished to study some subject that was new. English history for two years, English literature one year, ancient history three years, medieval history three years, and modern history one year were the topics finally selected.

The change in the community life was marvelous. The women took hold of the project enthusiastically and even got their husbands interested, men and women alike being drawn more closely together in a genuinely friendly and neighborly association that could never have been the case had not some sort of country club been organized.

Another famous organization is the Skillet Creek Farmers' Club which was organized in 1905 under the leadership of William Toole. Its work has helped to make the neighborhood noted for its homes, gardens, orchards, schools and highways. Another Sauk county club is the Klover Klub, of Fairfield, a literary society of about eighty members. These two by no means exhaust the activities of rural Sauk county, however. The Narrows Prairie Country Club is one of a number of societies whose existence is due to the teacher. Meetings are held in the schoolhouse, and a corn show is an annual event. The Sauk Prairie's Club is an association of farmers; the Choral Club, of Excelsior, is a body of religious young people. Altogether, there are in operation outside of the village and city twenty-five country clubs, most of which are associated with the Sauk County Federation of Country Clubs.

Of an unusually large scope is the Inter-State Park Club, of Polk county, Wis., and Chisago county, Minn., which has extensive and varied functions connected with the business and social life of a large community. A remarkable harmony has characterized it from its inception when one considers that two states, two counties, and two adjoining villages are involved.

Notices for all the meetings are typewritten and mailed to editors of the county papers so as to reach them when their copy boxes are empty. After each meeting a thorough and interesting report is also sent. By this means of keeping before the public the club has enjoyed a most prosperous history, being of immense value to its members. All the meetings, even those held during severe winter weather, are well attended.

The Burke Equity Club, of Dane county, was organized in an effort to find a better tobacco market. Equity warehouses were built, and the association endeavored to sell the tobacco of its members. This part of the organization has long since been abandoned, but regular monthly meetings of a social nature are still held. An equity picnic is held each summer. In fact, the social wants of the community are catered to most effectively.

Outagamie county boasts of the South Greenville grange. Although somewhat in the nature of a co-operative organization, the social side has not been neglected and the entire neighborhood looks forward with pleasure to its various functions.

These are only a few of the country clubs of Wisconsin. Their work is being duplicated in dozens of other counties. They prove, however, that country clubs everywhere have an immense field of usefulness; with careful organization, tactful administration, and systematic advertising they can grow to be the greatest individual force in every neighborhood.

We are pleased indeed to bring to the attention of our readers these instances where community life has been benefited by this get-together spirit which, after all, is the real purpose of these rural organizations or clubs. In some respects Wisconsin is leading her sister states in the adoption of progressive ideas as affecting social life and as related to industrial progress. A record is being made that might profitably be emulated by every state in the corn belt. In this connection we would like to ask our readers who are associated with rural clubs to furnish us a brief history of the work that is being done in order that we may in turn pass it on to our subscribers and thereby allow the leaven to spread.

WHERE TO INOCULATE A HOG.

Another complication has arisen in connection with the practice of inoculating hogs. Packers have learned that the injection of serum into the ham may cause abscesses that are not discoverable until the ham is sliced for use.

Special attention has been called to this matter by the United States Live Stock Sanitary Association. This association recognizes the Niles-Dorset serum as the most valuable agent available for the checking of hog cholera, but emphasis is placed on the necessity of having the serum used by competent veterinarians. In the hands of an unskilled operator this association points out that the serum may cause serious damage to portions of hog carcasses. The proper area for inoculating is still an open question, but of necessity it should be in a part of the carcass that is not utilized as meat. At the present time one of the large packing firms is carrying on an extensive experiment in which groups of hogs are being vaccinated, some in the neck, others in the shoulder and still others in the ham and flank. These groups will be kept separate and slaughtered separately and injury to the carcasses will be made the subject of careful inspection by the United States government inspectors.

Ask your neighbor to subscribe for The Homestead.

THE PUBLISHER'S VIEWS —ON— TOPICS of THE TIME

James M. Pierce

THE BIG MEN OF THE FARM.

I AM indebted to a country newspaper editor for calling my attention to a very interesting fact. Did you ever stop to consider that a great majority of the men who are doing the really-worth-while things of the world today came from the country or the country town? This editorial friend of mine mentions the fact because one of the great political parties of the day has chosen a man from a country town in the West, which boasts of but 3,500 population, as chairman of the congressional committee which has the welfare of the party in charge, while another of the leading parties has selected as secretary of its congressional committee still another western small-town product. My editorial friend pertinently inquires: "Why didn't they go to New York, or St. Louis, or San Francisco, or Boston, or Philadelphia for their campaign managers?" He answers the question himself by saying: "They didn't go there, because the men are not there."

Just take a minute and run over the list of men prominent in American life today who came either from the farm or typical small country towns, rural in taste, tendency, manner of living and general make-up. The speaker of the house, Champ Clark, is a country lawyer, from the little town of Bowling Green, Missouri, with less than 2,000 population. The leader of congress, Oscar Underwood, is from a country town, in Alabama, which only in recent years has begun to put on city airs and ways. The president himself, Woodrow Wilson, came from the little country town of Staunton, Virginia, with a present population of less than 8,000, where his father was the local Presbyterian preacher and which at the time of the president's birth was "pretty small potatoes" as country towns in the South go.

But we need not confine ourselves to politics, in considering this subject. The other day a member of my household asked me whom I consider the greatest living American. The query started quite an argument. We have a lot of great and good men in this country. But when we come right down to it, the great man is not necessarily he who occupies the most commanding political position or accumulates the most money or is most often in the public print. The really, truly great man is not Napoleon, fighting merely for the lust of power, but he who devotes himself to making the life and lot of other men easier, brighter or richer. We have a man still living in America whose greatness is felt clear around the world, every day of the year, in a dual manner: In making the day's work easier and in adding untold comforts and conveniences to lives which were bereft of them before his genius gave them birth. The man I mean is Thomas A. Edison, to whom the farmer is indebted for practically every electrical convenience he has, from the incandescent light to the talking machine. Thomas A. Edison was born in my native state, Ohio, in a little country town which has never yet reached the 800 population mark, although it is now more than sixty years since Edison was born there.

I could name a hundred men and women of prominence in America today who came either from the farm or the small country town. It isn't that bright boys and girls are not to be found in the city. It is because the boys and girls of the country have time to think things over, to compare facts and draw deductions therefrom, to consider the world's needs and connive at meeting those needs. Some day I am going to print the whole list of a hundred men and women whom everybody knows, because of their national prominence, all of whom came from the country or the country town. It will be an eye opener to most people. And it will effectually prove my contention that the rural spirit is the spirit which is ruling America today, bringing the nation up to a plane never approached before. All honor to our farm and country town parents for rearing the boys and girls who are doing the big things of the world today, going about their far-reaching work with a devotion to duty and an enthusiasm which is making a new era in American progress and prosperity.

THE PANAMA CANAL AND THE FARMER.

THE grain-belt farmer has a more direct and personal interest in the Panama canal than most of us are inclined to think. With the last formidable dirt barrier blown up last month and the day not far distant when the canal will actually be opened, we may well consider the subject of how the completion of this century-old project will benefit the grain-belt farmer.

First and foremost, the canal will mean reduced freight rates. Citrus fruits from California, wheat from Washington and Idaho, apples from Oregon and all the agricultural wealth of the Pacific west will be transported to the eastern market by water, for practically half what it costs by rail now. Vessels loaded with grain and lumber at San Francisco, Seattle and Portland will make the journey down the Pacific, across Panama and up the Atlantic, or across the Gulf of Mexico and unload their cargo at New Orleans and Galveston, for less expense than is now required to transport the same cargo one-third the number of miles, by rail, to the same destination. Knowing what an element in the final cost to the consumer is the item of freight the farmer can readily realize that the opening of the canal will mean cheaper citrus fruits and cheaper Oregon lumber, for both of which the grain-belt farmer is now obliged to pay exorbitant prices.

Nor does the advantage stop with this. Corn from Illinois, oats from Iowa, rye from Wisconsin, cotton from Oklahoma and rice from Arkansas can be shipped to the Pacific and Atlantic coasts and around the world practically the entire distance by water: down the Mississippi in river steamboats, then reloaded on ocean steamers at New Orleans and through the Panama canal to the Pacific coast and the Orient. What does this mean to the grain-belt farmer? It means an enlarged world market for his grains and crops which, thanks to the reduced price owing to the lowering of the cost of transportation, will thus be in free and unrestricted competition with the crops of the world, minus the now cumbersome and discriminating burden of excessive railroad freight rates.

In the second place, the Panama canal will mean a quicker market for the products of the grain-belt farm. The trip down the Mississippi by boat, or across the continent by rail, and then by steamer around South America to the Pacific coast, the Orient or the Occident (via the Suez canal) requires many, many weeks, rendering it practically impossible for perishable products from the grain belt to find a market so far removed. The Panama canal means a cutting down of the time for such trips, so that our grain-belt perishable products may at last find their way around the world and bring back still more golden dollars for the grain-belt farmer.

In the third place, the Panama canal will mean lower prices for the products of eastern factories and mills, for which the grain-belt farmer is now often obliged to pay excessive prices. Why? Because the railroads will be obliged to reduce their freight rates to meet the new water competition and this reduction in transportation charges will be felt materially in the price which the consumer is charged for farm implements from eastern factories, cloth products from eastern mills and miscellaneous products from foreign countries. Anyone who has lived or spent any time on the Pacific coast, as I have, knows what a big item freight is in the final charge to the consumer.

Three years ago I had the great pleasure of inspecting the work on the Panama canal in person. It was a wonderful sight for a grain-belt farmer and publisher. Its magnitude can hardly be realized. American genius has practically completed an engineering marvel, a miracle. Order has been brought out of chaos, the seemingly impossible has been accomplished in a matter-of-fact manner that is the wonder of the world. The meeting of the waters of the Atlantic and the Pacific is epochal in its romance. But it is far more epochal in its industrial significance. And the significance to the grain-belt farmer is one of the big phases of the subject which we must not overlook. I firmly believe no one thing within the next ten years will mean more to the grain-belt farmer, in the way of enlarged market for what he sells and reduced prices on what he buys, than the completion and opening to the world's traffic of the wonderful Panama canal.

James M. Pierce

FAVORS THE LOW-DOWN WAGON.

A Missouri subscriber writes very enthusiastically about his experience with the low-down wagon, endorsing it in the strongest possible terms. Among other things he says:

Never until this summer have I used the wagon with low wheels. I have always used the wagon with the highest wheels. I began to consider one day the amount of high lifting I had done, and how it worried me. The lifting of hay and coal and corn and other things as high as my head had often made me so tired at the end of the day I could hardly drag my feet along. Well, as a result I took the old wagon to town one day and traded for a low-wheel wagon, giving the man $10 to trade. He seemed pleased and so was I. I brought the wagon home and I have used it all summer. I am so well pleased that I have been ashamed to think I was so foolish as to use a high-wheel wagon so long. How easy to put on a load of hay, corn, fodder or coal. In fact there is not a purpose for which I have used this wagon that it has not been more satisfactory than the other. Of course our roads here are seldom ever muddy, and for that reason the low-wheel wagon pulls about as easy as the other wagon did. Then I have the iron wheels, and I am not troubled with loose tires. I have come to the conclusion that every farmer should have a low-wheel wagon to use about his farm even if he finds it necessary to have a high wheel one for use on the roads.

There is no question but what the use of the low-down wagon is an excellent means of transferring a considerable part of the heavy labor from man's shoulders to those of the horse. It is true that where the tire width is the same in each case the low-down wagon is of heavier draft than the ordinary wagon, but nevertheless it is so convenient in so many forms of labor on the farm that its use is more than justified. Furthermore all low wagons that we have ever seen are made with broad tires and in nearly all forms of farm work this, in itself, will tend to even the draft because it is well known that the wide-tired wagon under ordinary conditions draws easier than the narrow one.

MANURING FIELDS IN THE FALL.

It is scarcely necessary to go to the trouble to find arguments in favor of the plan of manuring land. Every farmer would willingly take the time to haul out more manure if a supply were available. A subscriber calls our attention to the matter at the present time and endorses the practice of manuring land in the fall. Among other things he says:

It looks good to stand in my door and see the manure being scattered over the fields. This is the time of the year when crops are off in many sections and farmers have begun to prepare for another crop. Every idle moment is being used in hauling out manure and spreading it over the field. As I live close to town much of it is being hauled from there without money and without price. All the farmer has to do is to hitch up his team and go after it. That is the reason the fields are being coated.

I like to plow the manure under in the fall of the year. By next spring it will be assimilated with the soil. The rains of winter will rot it and put its strength into the soil, and it will be ready for the use of the plant early in the spring. Often it will take the manure half the summer to rot when it is plowed under in the spring and one must wait another year to get the full benefit from it.

Of course I like the manure spreader. It distributes the manure evenly and without manual labor. It does its work quickly and well. Every farmer who is able should own one. But one must not fail to fertilize just because he has no spreader. With his pitch fork he can do very well. So he should take his fork and go after the fertilizer and scatter it as best he can over his place.

Put on a good coat of manure and you will have a good crop. One year I put on as high as ten tons to the acre on poor ground. Some of my neighbors thought I was putting it entirely too thick and it would burn the soil, but it did not and the crop that was grown there more than pleased me. It pays, it pays, it pays to manure.

While under ordinary circumstances manure may be plowed under in the fall with reasonable expectations of getting good results the following year, however, it may be said with an equal display of wisdom that the fall is an excellent time to cover pastures. More and more we are coming to believe that it is advisable to keep manure near the surface and to this end no plan can compare with that of top dressing meadows and pastures. There will be no waste whatever when this is applied and it absolutely does away with the danger that might, in some instances, arise, whereby coarse manure, when it is plowed under, intercepts the capillary movement of water. In the case of poor land when it is desired to improve a cultivated field immediately plowing under in the fall is good practice, but we desire to again endorse the plan of getting most of the manure spread over the meadows and pastures.

WINTER CATTLE FEEDING.

The whole country has been engaged in buying stock cattle and feeders since the first of October. Prior to that Iowa, Illinois and other states that raised a corn crop bought heavily, but Kansas and Missouri now have a large amount of feed for stock cattle, that has been grown since the first of September, and they are buying many cattle. Kansas is grazing wheat fields, and Missouri wheat fields and bluegrass pastures offer opportunities for wintering many cattle that were not thought of during the dry days of August. Distillers in Illinois, Indiana and Kentucky made a large amount of money on slop-fed cattle on the deals closed out the summer of 1912, and a fair profit on last winter's feeding, and are buying many cattle this fall. They use a plain set of animals, and absorb a large number of horned westerns that corn-belt feeders would side step.

Kansas and Missouri will confine their efforts largely to stock grades of cattle this winter, though a good many cattle will be finished. Silo builders were busy during the dry weather in those states, Lyon county, Kansas, erecting 200 silos this season, Greenwood county almost as many, and other counties in proportion. It will be a great season for concentrated feeds in Kansas and Missouri. During the dry weather many Kansas men almost lost faith that it would ever rain again, and laid in a large supply of cotton-seed product, overbuying their necessities in many cases. The rains came, and much of this feed remains on hand, but the Kansas field for the sale of concentrated feeds will be large.

Some Missouri yearlings, fattened largely on molasses meal, were marketed at Kansas City, October 22d, and sold at the top of the market, $9.25. The knowledge of new feeding methods that will be acquired this season in those districts that are deficient in corn will, doubtless, go far in making up for the loss occasioned by the drouth. Those sections where corn is plentiful will do well to watch Kansas and Missouri this season, as some valuable lessons in saving methods of feeding, and in substituting other feeds for corn, will no doubt be gleaned.

A dispatch from Winnipeg, Canada, says, "The influx of cattle into the United States under the new tariff law continues, and large shipments from western Canada are reported daily. A special stock train carrying 400 head of steers passed over the boundary Thursday night destined for Chicago. Another stock train of twenty cars crossed the boundary Friday night. The United States customs officials at Winnipeg are besieged with inquiries regarding the new tariff law.

RAILROAD TO HELP SHIPPERS.

One transportation company has just announced that it will inaugurate a new freight device to accommodate small shippers along its lines. The plan is to send iced cars over the road to pick up fruit and vegetables. At each division these will be transferred to a fast freight and they will go forward to available markets. The fruit and vegetables will be sold in the best markets, and the remittance made by the railroad directly to each shipper.

The idea is to aid the grower of small quantities of fruit and vegetables to market his produce at a paying price. In many localities there is practically no market for small lots of vegetables, and as the grower cannot dispose of it in his own town he must let it go to waste. The railroad can therefore be of great help to the grower by marketing his fruit and vegetables for him.

The railroad officials have the theory that the fruit and vegetable business can be developed along its route the same as the dairy and poultry business, and everyone knows these have grown to enormous proportions.

The campaign is to be opened about the first of November in the West and pushed with vigor over all the lines that traverse agricultural and horticultural territory. The idea seems to be to take the matter up with the farmers at all their gatherings and get their hearty co-operation. This is bound to mean a better day for the farmer if he will only take advantage of the opportunity. The business of marketing small quantities of fruit and vegetables will no doubt enlarge as the years go by.

WHEN HAULING TO MARKET.

Nearly every man who farms likes to be reasonably close to town, yet few have gone to the trouble of figuring out how much more it means to them in a day's hauling. The government has gathered data which shows that the man who lives but one mile from town may be expected to haul five loads of ear corn while the man who lives six miles away can only move two. If he is hauling shelled corn or wheat he can move four and one-half loads in a day if but a mile from town, while his neighbor who lives three miles from the depot can only get three loads in. And, of course, if the roads are as bad as they sometimes are even at this time of the year, the number of loads may be best represented by 0.

CONSOLIDATED RURAL SCHOOLS AND GOOD ROADS.

It is yet possible to find men who are thin-skinned and touchy on the subject of rural-school consolidation. They point to the records of great men who have been reared in the little red schoolhouse and hastily reach the false conclusion that what was good enough for our fathers is good enough for us. We treat with the utmost respect the men who hold that view, but desire to call their attention to the fact that there is a rapidly increasing interest in the modern plan of introducing the graded school system into the country. One of our subscribers points out the close relationship that exists between this new school plan and the question of good roads. Among other things he says:

We will never have first-class high schools in the country until we construct good roads and keep them in proper condition, summer and winter. The two are so closely related that we cannot have the first until we get the last. But with country roads in good condition twelve months in the year, children can get to school during severe winter weather, although living three or four miles from the schoolhouse, as easily as they could go a half mile on a bright spring morning. The establishment of a system of good roads in your county, besides being a very good thing within itself, for many reasons, will at the same time guarantee the radical improvement and greater efficiency of your rural schools.

Wherever a model rural school has been introduced in a prosperous farming community its influence and development has been wonderful. But with the coming of good roads the number of rural high schools will increase as if by magic. Then one teacher will cease trying to do the impossible. Instead of one teacher, in a one-room school, trying to teach everything, that teacher will be one of several experts amply employed at good salaries in a consolidated school. What we need in our rural communities today is team work in education, the get-together spirit which will move small school districts to unite for the building and equipping of high schools, and we will have it before a great while.

At present the greatest obstacle to the establishment of these first-class schools in country neighborhoods is the bad condition of the roads at just the time children are privileged to attend school. Trustees very naturally reason that it is useless to consolidate several districts and require children to go three or four miles to school when the roads are well-nigh impassable during a considerable portion of the winter. But with good roads 150 or more children could be conveyed a long distance to a modern, first-class, four-room school, where every teacher is an expert along certain lines. One of these teachers will give instruction in drawing, art, another in music, another in arithmetic, and so on, each teacher instructing in that special department for which he is best qualified.

It is absurd to expect one teacher to get the best results in trying to instruct in all the various branches which modern education demands. It cannot be done. You never saw a first-class stenographer, bookkeeper, typewriter, telegrapher, writer and artist combined in the same person. Nor is it likely that any one teacher could properly instruct pupils satisfactorily in all of those callings or professions.

The world's advancement demands that the successful teacher of today be an expert. By a system of consolidated schools there will be splendid openings for those who have prepared themselves for special work, and they will command high salaries. This statement is borne out by reference to the statistics in all county superintendents' offices. The standard of wages, even for the one-room school teachers in the back country, has risen rapidly in the past decade.

It is, however, the consolidated school which is going to solve the problem permanently. One of these schools established in each county will encourage the establishment of more such schools. When three or four districts get together and determine to have roads that will be in good order during the winter as well as the summer the whole matter will be settled. There are all sorts of ways of getting the scholars to school when the roads are good. A big motor would cover the territory in a short while. Old men who do not feel able to work on the farm could, at small expense, be induced to drive vehicles around to the various homes and take the students to school. Three or four such conveyances, or maybe fewer, could cover the farthest portions of the consolidated districts very satisfactorily. Of course many of the boys and girls would come on their own horses.

An easy and convenient means would be found for getting to school, once the roads were good and safe, and there was a school to get to really worth getting to. As conditions now are in the majority of rural communities boys and girls old enough to compare school conditions in their own neighborhoods with the town schools have very little encouragement to go even a short distance to the rural school. The instinctive demand of their natures, as the students increase in intelligence and keenness of observation, is for better school conditions at home, and yet no effort is being made in many localities to supply this demand.

There is no denying the fact that it is useless to spend much time and energy in advocating the central school plan if the same degree of enthusiasm is not spent in the interest of improved roads. Within the last decade certain phases of this problem have changed materially. We refer especially to the introduction of the automobile which unquestionably in the future will be the system of transportation used in conjunction with central schools. It can only be used, however, when communities, as a whole, are convinced that the road question is, after all, a fundamental one, requiring first attention from those who are advocating a sound system of rural education.

DEMAND FOR DRAFTERS CONTINUES.

Dr. C. E. McCampbell, secretary of the Kansas Live Stock Registry Board, has recently called attention to the fact that motor trucks have not in any way injured the draft-horse business. In other words, Mr. McCampbell believes that there is a keener demand for draft horses today than ever before. It is believed by this champion of the drafter that there is a distinct division between the usefulness of the motor car and the horse. For long hauls over good streets or roads the motor truck is the more economical, but it cannot compete with the horse on the shorter hauls or where there is much stopping required. One of the largest packing firms in Kansas City uses but three trucks and they are assigned to long hauls.

The demand for good draft horses exists not only in the city, but larger and better mares are demanded on the farm, according to Mr. McCampbell. Labor-saving machinery is taking the place of hand labor and in most instances this machinery requires horse power to handle it. It has long been known that for many farm tasks the larger horse can perform labor more economically than the smaller one. In other words, the relative cost of maintenance for a given amount of labor performed is smaller in the case of large horses. It is believed by Mr. McCampbell that in the state of Kansas the average weight of farm mares has increased at least 300 pounds in the last ten years. Furthermore, interest in pure-bred draft horse breeding is increasing as indicated by the greater demand for good draft stallions and by the decreasing numbers of grades that are used.

The Long-term Versus the Short-term Lease.

By I. P. Rodgers.

MUCH of the dissatisfaction with farm life in this country today is due to the conditions under which the renters of the land are living. They are continually moving about from place to place, thus destroying all community interests as far as they are concerned. They are never in any one place long enough to take that interest in those about them that makes life really worth living. They get to know the people of a community by name and that is just about as well acquainted as any of them ever do get. They do not know enough about the lives of their neighbors to take any interest in their welfare, and thus forget their own troubles for a season; and, to tell the truth, they in time become so selfish through caring only for self that they have little desire for any close relationship with those outside their own family circle. The schools of the country are neglected because there are but few families living near them that expect to get any good of any certain school for any length of time; no one cares to help improve, or to even assist in keeping up a school for someone else's children. Country homes become mere boarding houses, because they are not regarded as homes for any duration of time; tenants do not feel that it is in keeping with common sense to fix up and make real "homey" a place that they do not expect to live on for more than a year or so. They leave the matter of fixing up to the next fellow—who does precisely as they have done.

It will be found that the majority of the farms that are rented are leased but for one year at a time. Sometimes a tenant will remain on one place for a number of years, but, since he is never sure that he will be there for any longer term than that stated in his lease, he takes no more interest in things about him than he would were he sure that he would have to leave at the end of the year. In many cases the tenant does not desire to rent a place for a long term through fear that in a year or so he may hear of a better place that he would like to rent, and he be not free to rent it. Usually, however, it is the landlord's sense of precaution against undesirable tenants that is responsible for the one-year lease. He does not like to tie up for several years to a fellow that may prove to be quite worthless.

Such a condition is, of course, the cause of a direct loss to both parties concerned. It makes for loss to the tenant because it robs him of that interest in his place and its management that is so essential to success in farming, and it works a loss to the landlord through a greatly reduced crop production. And, not only is the production of the land reduced each year, but through such a system of careless and disinterested farming the producing power of the land becomes less and less. The land becomes injured to such an extent that it does not do nearly what it should do. The farm gets into a state of disrepair; fences are fixed up to last for the brief season which the tenant expects to use them, while the barns and outbuildings are seldom fixed at all. They are merely endured until the tenant can get away. The landlord in time grows to have almost as little interest in his place as his constantly moving string of tenants have. He finds that as each year goes by it adds to the cost to put the place in proper shape, and he is discouraged. He keeps putting the season of repairing off until the advent of that "desirable and deserving" tenant who never comes.

What would be the result if these conditions were changed and the long-term substituted for the short one? Let us consider the question. Such a change would surely work for the good of both parties. For the tenant it would arouse that interest in his work, the lack of which is the transient tenant's undoing. Though it is inferring that these tenants are a selfish lot, it is true that they, as well as any other people, do better work when they expect to reap the benefit of such work. A long-term tenant is interested in crop rotation and the building up of the soil because he expects to get a big crop off that built-up land in a year or so. If he puts a piece of ground in wheat and sows it to clover, he takes care to do it right, for if he is using the three-year-crop rotation it stands to reason that in three years he will see some big corn there. There are many farm crops that require soil preparation two or three years in advance. The long-term tenant can afford to make such preparations. He can afford to haul out and scatter over the fields that farmyard manure that the transient tenants of former years left to the "other fellow." They leave a lot to the "other fellow," do those short-term tenants! They leave the place in poor repair, for one thing, and when the long-term tenant gets there he has his hands full for quite a while before he gets things in any kind of shape. But he finally does get things to looking pretty nice, and capable of giving satisfactory service. He does not try to paint the barn or reshingle the house or anything like that—not right away, at least. He doesn't have to, for when he sees how "shipshape" the new tenant is getting things, the landlord grows ashamed of the old black barn and the ragged looking house and has them fixed up "on his own hook" as the small boys say. And, because they are both interested in something in common, they grow gradually into a spirit of co-operation that cannot fail to be of great benefit to tenant, landlord and, most important of all, to the soil.

Not only are the tenant, landlord and the soil benefited through the long term, and its resulting co-operation, but the community at large is helped to a better state of things. The long-term tenant takes an interest in the welfare of those about him, selfish as it may seem. It is to his interest to help neighbor Brown with his hay, for he may need help with that big crop of hay that he will have on the back twenty a year from now. He is not afraid to do a favor, for he he knows that he will be in the neighborhood long enough to have it returned, and he is not afraid of asking a favor, because he knows that he will have ample time in which to pay it back. He is interested in public property, because he expects to use such property. It is to his interest that the roads be in good shape and the bridges kept repaired. He may use them more than anyone in the years to come. Plans for building up the school system have his hearty support, because he is glad to do anything to better the condition of his children. Since he knows that he will get to live in it for several years, he makes a home of the old farm house—a home where he and his family really live. This is the best part of all the long-term system—this advancement of the farm home. Farmer boys and girls do not leave homes where the keynote is contentment. The long-term farm lease is going to start such a keynote ringing in many homes over the land, and let it be soon. It's up to you, dear tenant, and to you, dear landlord. And perhaps, come to think of it, it is up to all of us to a greater or lesser degree.

The Logical Car For The Man Who Wants All These Advantages

Light weight

Less tire trouble and expense

Less up-keep cost

Less annoyance

Less expense for fuel and lubricant

Greater speed

Greater hill-climbing ability

Lower price

Greater safety at night

Better and cheaper light

If you don't know why a gas-lighted car has all these advantages over an electric-lighted car, now is the time to find out.

Why electric lighted cars are heavier

Prest-O-Lite weighs little, and its operation consumes no engine power.

An electric lighting system weighs from 150 lbs. to 250 lbs., and consumes over 10 per cent of the power and fuel used in a car of moderate power and price.

When a motor car manufacturer adds 150 pounds or more of dead weight, the car must be strengthened throughout. This calls for heavier frames, axles, springs, etc., and larger tires—in short, the weight of the electric system is only one item in the increased weight of an electric-lighted car.

And since the electric system consumes 10 per cent of the engine power, and because the engine also has a heavier car to pull, a larger engine must be provided.

The final result is a heavier car, consuming more fuel and lubricant, wearing out more tires—more expensive to buy, more expensive to operate and maintain, more complicated, more troublesome, and less reliable.

To prove this to yourself, take the gas-lighted cars of 1910 and 1911, and compare them with the electric-lighted 1913 and 1914 models of the same make. Note the difference in engine size, tire size, and weight of car.

Take any of the 1914 models which have been re-designed to carry electric systems and make the same comparison with the 1913 model.

Then remember that the chief difference between the new car and the former model is a complicated, unreliable lighting system, giving poorer practical road light, and five to ten times more expensive to use than Prest-O-Lite.

Convenience

At an expense of only $3, for an Automatic Reducing Valve, any Prest-O-Lite car can be so equipped that it is no trouble at all to light the lamps with a match. If you want to go still further, and light and extinguish any or all your lamps from the driver's seat, you can do it by installing a Prest-O-Liter, or any other good automatic lighter, at an expense of from $15 to $25—and that's only a small part of what you would have to pay for an electric lighting system. Write us for full information about this.

Electric lights consume 10% of the power and fuel

You can't create power out of nothing. Electricity is a form of power. It takes power and fuel to create electricity.

To show how much fuel and power it takes on an automobile, a series of tests was conducted on the Indianapolis Motor Speedway in July.

The result showed that on cars of 40 actual horsepower, the electric system consumed about 7 per cent. of the power and fuel.

And on cars of moderate power and price (25.6 H. P., usually rated at 30 H. P.), the electric system consumed 10 per cent. to 12 per cent. of the car's power and fuel.

So you can see that electric lighting not only takes fuel, but also cripples the engine.

We'll gladly send you a full report of the Speedway Tests.

To make tests of your own, run an electric-lighted car as far as it will go on a gallon or half-gallon of fuel, then disconnect the dynamo and note the difference in mileage on the same amount of fuel.

Or if you have a gas-lighted car in good condition, test it on a hill alongside a new electric-lighted model of the same make, and see which car goes up the hill quicker.

Then write for the report of the Speedway Tests and you'll know why.

Prest-O-Lite gives better light

Prest-O-Lite does not send a thin dazzling beam of light a mile down the road where you don't want it, but Prest-O-Lite does give more and better light on the road in front of the car where you do need it.

The real cost of electric light

Talk about the "economy" of electric light—here's what electric light really costs, on any car of medium price and moderate power:

10% to 15% more tire expense.

More general up-keep, due to weight.

10% more fuel, on account of weight.

Another 10% more fuel to run the electric dynamo.

At least $12.50 per year for battery renewal (based on 2 years' battery life, which is longer than the battery will last).

$3 to $6 per year for light globes.

At least $15 per year for electric repairs (conservative, but based on 2 years' use).

When you have footed that up to suit yourself, see how it compares with what you or your friends have ever spent for gas light.

The average user of Prest-O-Lite pays less than $10 per year for light—a great many pay as little as $5 per year—it depends on how much he uses the light.

But it's different with electric lights—you pay for the light whether you use it much or not, and may pay even more if you don't use the light at all.

If your car was designed to carry an electric lighting system, a change to Prest-O-Lite would still insure a substantial saving in addition to the reliability and safety which Prest-O-Lite affords.

Who can repair an electric system?

You expect to take care of your car. You're probably a pretty fair mechanic.

But are you an expert electrician?

Do you know that the average garage or dealer cannot repair electric systems—doesn't even pretend to be able?

In case of a break-down, you'll either have to repair it yourself, or sit down and wait for a factory expert to come to you.

There are lots of parts to an electric system. It has a lot of mysterious troubles. Get one of the Instruction Books for taking care of electric systems and read it. See how much of it you understand.

If you don't want the job of taking care of the system, see if the dealer will guarantee to take care of it for the first 18 months, without expense to you.

Then remember that Prest-O-Lite is reliable, requires no expert repairing, and that Prest-O-Lite service is yours to command in every nook and corner of the country.

Gas lights are safe

Electric lights are apt to go out instantly and without warning at any time.

Suppose you are running 15 or 20 miles an hour on a narrow road, and your lights suddenly go out. The effect is to make you almost blind for several minutes. Where is the car apt to be by the time you stop it?

Isn't the safety of your family worth considering?

Prest-O-Lite does not fail suddenly. Even if you carelessly allow your gas supply to give out, the light dies down very gradually, giving plenty of warning.

The Prest-O-Lite Co., Inc.

707 Speedway, Indianapolis, Ind.

Exchange Agencies Everywhere

(Contributors to Lincoln Highway)

Read this free book before you buy any car

It tells all about the Speedway Tests, shows the cost of Prest-O-Lite and electric light, tells why automobile manufacturers use electric lights against their own wishes, contains letters from electricians and electrical engineers who use Prest-O-Lite on their own cars, and many letters from automobile owners who have discarded electric lights. Also tells why the compressed-air starter is the coming starter—in fact is chock full of real information on the whole subject.

This book is not written in a technical way. It is easily read, easily understood, and makes the whole thing clear as daylight. No matter whether you're figuring on gas light or electric light, no matter what car you're thinking of, read this book first so you can do your buying with your eyes wide open.

THE PREST-O-LITE COMPANY, Inc.
707 Speedway, Indianapolis, Ind.

Send Free Book and full information on all lighting systems to

Name .....

St. No.
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Town and
State .....

Easy on Man and Team

Low Down
Short Coupled

There is no argument as to the value of the Manure Spreader, neither as to the saving in time and labor nor in the increase in yield, resulting from proper spreading of fertilizer.

The most profitable investment you can make is—

The Flying Dutchman Spreader

A Steel Frame, Low Down, Close Coupled, Endless Apron Spreader, of the most modern construction, greatest convenience and lightest draft.

Easy to Load—The top of the Box being only 42 inches high, it is easy and quickly loaded, without that back-breaking lift.

Runs Easy—The box being higher in front than in rear, the apron runs down hill, giving lighter draft—you know it's easier to pull a load down hill than up. It is also equipped with Roller Bearings—reducing friction.

Wheels Under the Load—Just where they should be to secure the lightest draft—most convenience in turning and plenty of traction power on the rear wheels, without the use of lugs.

Clearance—The Endless Apron has 18 inches between its lowest point and the ground—6 inches more than most others.

Steel Frame, Steel Wheels, Steel Beater, Chain Drive

No other Spreader is so strong and well built. The Apron runs on three sets of steel rollers, safely carries 5,000 pounds without sagging.

Easy to Handle—One Lever operates the entire machine—a boy can handle it as well as a man, with no chance of breaking the machine. Being close coupled, it is convenient around the barnyard.

We also build the MOLINE SPREADER which is of the same general construction, except it has a Return Apron.

Ask your Flying Dutchman Dealer and Write Today for our Handsome Spreader Booklet and 1914 Flying Dutchman Almanac FREE.

MOLINE PLOW CO.

Dept. 11 MOLINE, ILL.

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THE strongest, safest, most durable and distinctive. Special-formula Open Hearth wire, heavily galvanized with pure zinc, every joint WELDED BY ELECTRICITY, produces the famous "Pittsburgh Perfect" *solid, one piece fabric.* EASIEST TO ERECT. The "Pittsburgh Perfect" Electrically Welded Pipe-Frame Gates are the strongest, most satisfactory gates made.

SEE YOUR DEALER—But before buying *any* fence, get our new catalogue *telling how to test a wire,* and showing many "Pittsburgh Perfect" Fences for every FIELD, FARM, RANCH, LAWN, CHICKEN, RABBIT and POULTRY YARD and GARDEN.

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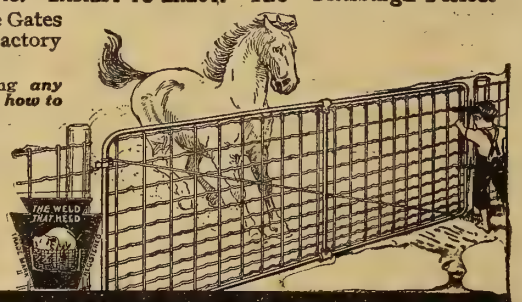
PITTSBURGH, PA.
Makers of "PITTSBURGH PERFECT" GUARANTEED BRANDS of Open Hearth Steel and Wire Products.



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Harvest a 160 acre crop from 120 acres. This simple, reliable machine does it. Cuts or shreds the stalk while husking the ears.

GUARANTEED

size for size, under equal conditions of operation, to do more and better work with less power than any other machine husker in existence and to be easier and safer to feed and to operate. Our Husker Book tells all about it. Send for free copy today.

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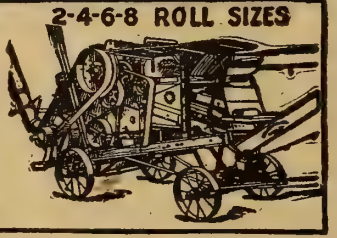


Shetland Pony Given Away

Here is your chance to get a fine Shetland Pony. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a pony. Mail it to me with your name and address and I will tell you all about the great contest in which you can win a beautiful pony.

1500 VOTES FREE

I will also send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

Sec'y Popular Co., 162 Popular Building Des Moines, Iowa

CURRENT EVENTS

WILLIAM SULZER, impeached governor of New York, was nominated for the assembly last week by the progressives of the sixth assembly district. Mr. Sulzer began his public career as a member of this branch of the state legislature in 1889. The recent nomination is not endorsed by the state and county leaders of the progressive party. The ex-governor was highly pleased with his nomination and he is firmly convinced that this will be followed by an election. He is of the opinion now, and this he freely expresses, that he can do more good as a member of the house of representatives than he could accomplish as governor. The impeached official has most successfully played the role of the martyr since his removal from office.

ALTHOUGH American doors were for a time closed against Mrs. Pankhurst last week, they were finally thrown open and the greatest suffragette in captivity was allowed a few weeks' freedom to fulfill lecture engagements in the United States. This is the same Emmeline who has been engaged in such innocent pranks as filling mail boxes with glue and wrecking man's belongings and interfering with his comfort in general. It is the belief that the real purpose of Mrs. Pankhurst's coming to America is "cash." Students of the suffrage movement in England are free to assert that while there are many sincere followers of this type of belligerent, the leaders, it is asserted, are, in almost every case, notoriety seekers with little real interest in the cause of extending the franchise.

THE farmers of Canada are now showing considerable concern over the manner in which the United States is grabbing up the young breeding stock of the West since the new tariff bill went into effect. There is already some talk of putting a closed season on the slaughter of female stock. Prices that the American packers can pay even for half-fat yearling and two-year-old heifers have made a tempting proposition for Canadian farmers and ready money is none too plentiful an article in the West at the present time. Canadian cattle are healthy, and in the main, they are well graded up, so that when shipments from that region cross the line they should go into the feed yards and pastures rather than to slaughter.

MR. J. OGDEN ARMOUR announced last week that his company had 4,000 tons of beef ready to ship to the United States from the Argentine. Mr. Armour denies that the United States government has the right to interfere with his business in any way and he declares he will buy beef wherever it is obtainable and thereby take advantage of the splendid home market. According to Mr. Armour's observations of conditions in Europe business conditions are sound fundamentally in those countries notwithstanding evidence of depression in certain localities.

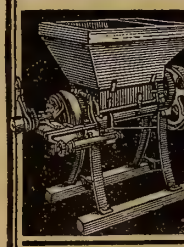
SENATOR KENYON, of Iowa, is now preparing a bill which will require an appropriation of $1,000,000 to be used in stamping out hog cholera. At the present time there is a small appropriation made by the federal government whereby part of the expenses of the work in certain counties is borne, but this, in the opinion of Senator Kenyon, is insufficient. In a single state (Iowa) the loss last year was over $12,000,000. The continuation of such losses, according to Senator Kenyon, is an important factor in increasing the cost of living.

ACCORDING to a recent decision of the Iowa Supreme Court a country chicken has the right to go anywhere it pleases and eat whatever it desires to eat without involving its owner in financial difficulties. This high court says that fowls are free commoners and if a man desires to protect his property against the ravages of such animals he should build fences to keep them out. To require owners to build such fences would paralyze the chicken industry, in the opinion of the court. There was but one dissenting vote from this view. The case which was decided upon related to an instance where the depredations of 200 chickens caused a farmer to sow certain portions of his grain three times.

ALMOST unusual case of philanthropy was brought to public notice last week. The proprietor of a factory where thirty girls were killed by a fire last summer in the state of New York, Mr. R. B. Freeman, started life over again last week at the age of sixty-six, having given away his entire fortune to various charities, this running into the hundreds of thousands of dollars. Optimistic and smiling Mr. Freeman opened a little office last week as a commission merchant, confident that his fifty years' experience in the wholesale clothing trade will enable him to accumulate sufficient means to properly care for his family. There are few such instances where men lived to its ultimate conclusion the doctrine of the Master: "It is more blessed to give than to receive."

THE United States government is preparing to notify the nations of the world generally that any interference in Mexican affairs will be regarded as unfriendly to this government. This conclusion has been reached by President Wilson and Secretary Bryan and it will be communicated to foreign governments. It is in line with the policy established earlier of keeping other nations informed of every step taken in its handling of the Mexican problem. The proclamation will serve as an explicit definition of the policy of the United States in its relationship with Mexico, the principle being indicated that recognition can only be given to governments on this hemisphere founded on law and order.

SAVE ¼ OF EVERY $1.00



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The Best Steel Gate in the World

High carbon steel frame. All No. 9 galvanized wire mesh. Special hinges. Patented self-locking latch. Steel center brace. Unbreakable. Raises at either end. Sold on 30 days' trial at our special direct-to-you factory price.

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Pump—Grind—*Do all power work with a 4-H. P. Vertical*

FARM CUSHMAN
All Purpose Engine

4-Cycle. Weight 190 lbs. Does all work a 1,000-lb. engine can do. 10-year guarantee. Also 6-h. p. up to 20-h.p. Special Heavy Duty Engines. Get catalog and "trial offer."

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

Hauling the children to school in a storm is not a pleasure trip, and when the health of both children and driver is endangered by the trip I believe in staying at home that day.

We are all up against the problem of making a little corn go a long ways, and some of us are solving the problem in a most marvelous way. The horse that winters sleek and fat certainly can be called an easy keeper.

Hearing that I want to buy a milk cow I have been offered many chances to buy by folks who have "a good one" to sell. I notice no cow is ever over seven years of age and that all give surprising amounts of milk. For the purpose of pulling down a long price it seems easy to make a good milk cow out of almost any "critter."

After each storm the wind brings a chill with it that feels more and more like winter, reminding us that there is still much to do before we are ready for winter. It reminds me that I still have my winter supply of coal to haul, and that there is much manure to be taken out of the cattle yards.

We are now living under a new tariff, but I fail to notice any great change on or around my farm. It may be that the pigs crawl under the woven wire a little oftener than they did and the roosters crow a little earlier in the morning, but there is good picking outside for the pigs and there is moonlight in the early morning, so there seems to be a reason for these things aside from the tariff.

The automobile with water in its radiator and the gasoline engine used to run the feed grinder must soon be drained of water, or there will be an expensive freeze-up one of these cold nights. It doesn't take much freezing to burst the pipes of the automobile radiator, so a good habit to get into is to drain the water out every night.

Fodder still in the shock should either be stacked or shredded. If there is room under roof, a fine idea is to shred, then the feed is safe from storm and is likewise put in better shape for feeding. Letting fodder spoil in the shock is a practice that never did appeal to me, nor do I fancy pulling it out of a muddy field.

I have had considerable experience with hedge fences, and I find that when you want to get rid of them the best way to do so is to get a stump puller and just naturally take the whole thing out by the roots, then keep the ground plowed the first season afterwards.

Good, bright oat straw is a very good substitute for hay for winter feeding. If there is not too much dust about it, horses will do well on it for the roughness part of their ration. Those who failed to stack their oat straw well this year will have reason to be sorry for it before spring.

One can spend a good many useful days attending public sales. I go occasionally, but never have formed the sale-going habit, as have some, who take in every sale held within driving distance of their home. I know of men who never buy at sales, yet they attend every one for miles around. They have formed what I call the sale-going habit, just as some have the going-to-town habit.

It is all right to make a practice of hogging down corn if the hogs and the corn belong to the same man, but if the hogs belonging to one man get to hogging down another man's corn it means trouble that quite often results in a lawsuit that will cost more than a mile of hog-tight fence. Be on the safe side and build the fence first, two miles if necessary. It will pay for itself—a lawsuit between neighbors never does.

The question of fence posts has been bobbing up quite often lately and some day it is coming home to roost. In this vicinity we can still buy bur oak posts at fifteen cents. Ten years ago we could have bought fully as good posts at eight cents. Isn't it about time for us to think seriously of the post question of the future?

The road hog has made it necessary to pass some laws covering the passing of vehicles on the public highway. The road hog, as a rule, knows the law, but will not obey it unless he must. It seems that when he is on the road he loses respect for the law, for the persons he meets or passes and even for himself. Why is it?

Don't forget that all signs of rain fail in a dry time. Also that all signs of an open winter are merely guesses at what we are to have in the weather line. Guesses make mighty thin feed for stock and poor fuel and provisions for the family.

A straw shed is as good as a palace for the hog in the winter time, provided it is dry and well bedded. Just a little head work on the part of the owner will make it so that the hog can bed himself and Mr. Hog knows how to make a fine bed if he has the material handy.

The best cure for sore hands in corn husking is cotton gloves or mittens, but they must be worn before the hands become chapped and sore. An ounce of prevention is always worth more than a pound of cure.

As far as getting up a supply of winter wood is concerned the buck saw is one of the relics of the good old days of long ago. Now the gasoline sawing outfit makes short work of the sawing and gives us time to get warm by the stove instead of warming up at the wood pile.

About the best news I have heard for some time is that clover seed is to be cheaper next year. The reason this is good news to me is that I happen to be on the buying side of the fence.

There may be cases where the stalk field makes fine pasture, but as a general thing it must be about like sitting down to the table for a square meal with only crumbs in sight.

NOVEMBER IN THE FLOWER GARDEN.

To the Editor of The Homestead:

We have had our first rather severe freeze, and the flower garden calls us. Several things have been just waiting for this freeze, and now it has come we will give them our attention.

The tuberoses will have to be dug the first thing, for another freeze on them might reach the tender center shoots, and if they are killed our bulbs will not bloom for several years, or until the bulblets are big enough. Cut off the tops and scatter in a warm, dry place to thoroughly cure, for the hearts will rot if piled up now. Let them dry until the roots and withered tops can be rubbed off, then pack away in a loose crate or box in a warm room. It is not best for them to get too near the freezing point.

The dahlias should be dug also, and it is necessary to be very careful with them, for the tubers that are detached from the stem are useless. The eyes of the dahlia are on the stems just at the point where the tubers are attached, and a piece of the stem should always be cut off with the tubers when dividing. I usually put the clumps away whole and divide in the spring. When dividing split the stem up as much as is needed to give each bulb a particle. Pack the tubers in dust or some other material that will exclude air, for they will dry up and shrivel, losing their vitality if left exposed to the air.

Gladiolus bulbs are deeper in the ground and are more hardy so they can stand several freezes without injury. Dig them when you can get to it and dry them well. I generally leave the old corms, bulblets and roots attached until spring, but it is not necessary, for one year I removed even the husks and stored the bare bulbs and they came through perfectly and grew off well in the spring. They had dried up a little more than those not peeled, but there was no material difference. I always store them in paper sacks hung up in a room where it does not freeze. They are not at all particular, aand almost any dry place that does not get too cold will do.

The best way to handle the cannas is to carry right into the cellar when dug. They need to have the dirt left on them as much as possible, and should not get too dry before planting-out time. They can be stored any place where it does not freeze or where it is not so warm as to start growth during the winter. Cut the tops off as near the top of the ground as you can when taking them up. If you cannot spare the room to put the clumps away, you can divide them up, allowing two or three eyes to each bulb and bury them in road dirt moistened a little, or in moist sand. Cannas can be started early in the spring and be ready to set out with a good start by the time the dry bulbs could be put out.

After this freeze is the time to pot up those violets you want for the window this winter. The hardy Russian is generally grown, but the California and Lady Campbell are both good, though they are not hardy enough to stand a severe winter outdoors. The hardy Russian is perfectly hardy and blooms both spring and fall.

L. H. Cobb.

UKC

WHEN you buy *Lambsdown* Union Suits you secure the three essentials of Winter underwear satisfaction — comfort, warmth and durability.

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Fleece-Lined Underwear

Lambsdown Union Suits are comfortable because they fit smoothly. They are warm because the thick fleece protects the body from cold and draughts. The fleece cannot mat, knot or wash away. Every garment will give two seasons' wear.

Made for Men and Boys

Union Suits are preferred because of their accurate proportions and delightful comfort. Your dealer can supply you with separate garments as well, 50c, 75c and up. The Bodygard Shield is your safeguard.

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Makers of Bodygard Underwear—Velastic, Twolayr, Springtex and Celtex.

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THE GOODHUE CORN PICKER AND FIELD HUSKER

Picks and husks the ears from standing stalks in the field and delivers them to wagon driven alongside. You can crib your corn without the expense and trouble of hiring extra help.

A GASOLINE ENGINE

light weight, high speed, can be furnished mounted on it to operate the picking and husking attachment. This engine can be easily taken off for other work. This machine has been in successful use for about 8 years. Send for illustrated circular.

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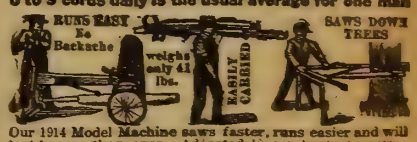
1 Man With a Folding Sawing Machine Beats 2 MEN With a Cross-cut Saw

6 to 9 cords daily is the usual average for one man



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The speed of these shells is due to the *steel lining*—to the way it compresses the smokeless powder and keeps all the punch of the explosion right behind the shot, where it belongs.

Get Remington-UMC Steel Lined Speed Shells of the livest dealer in your section. See that the Red Ball mark is on every box of shells and metallics you buy.

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Photograph from life

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The only way to learn how durable, comfortable and satisfactory they are is to wear them.

Clothcraft Clothes are $10 to $25—the only line at those prices which guarantees you all-wool, first-class workmanship, satisfactory wear and service.

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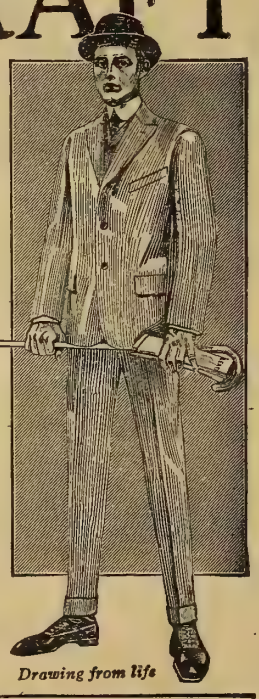


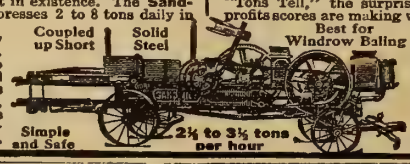
Drawing from life

Sandwich (Chain Drive) Hay Press
Supplies Its Own Power

You too, can make $200 to $300 clear profit monthly! Farmers pay liberally to have their hay baled by this **solid steel, big tonnage Sandwich** that doesn't break down in the middle of a job—that turns out clean, slick, solid bales, **rain or shine,** one and two a minute.

It has hopper cooled Gas Engine mounted on same truck, 4, 6, 8 or 10-horse power—gear driven magneto—the most complete outfit in existence. The **Sandwich** beats all ordinary presses 2 to 8 tons daily in every working test. **25 tons are its every day job—often 30 to 40.** Full power delivered to Press by heavy steel **roller chain.** It does away with slipping, stretching belts. Simple time-tried self-feeder—**with big feed opening.**

Yes, the safest, surest, biggest money maker in the business! ***THIS FREE BOOK,*** "Tons Tell," the surprising story of tremendous profits scores are making with the Sandwich. Write us today for your copy by return mail. Ask for our special terms that let you start with little money **and pay from your profits.** Address:



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$285 Motorcycle Given Away!

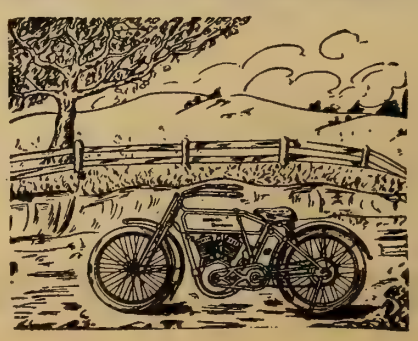
YOU see here a picture of the $285 Harley Davidson Motorcycle I am going to give away. In another part of the picture is the face of the rider. When you find the rider, mark his picture with a cross (x) and send to me.

Be sure to send your name and address so I can tell you all about the contest in which you can win a $285 Motorcycle and many other prizes.

1500 Votes Free I will send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

A. M. PIPER, 200 Popular Bldg., Des Moines, Iowa

Puzzle: Can You Find the Rider?



LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

SPECIFIC PERFORMANCE OF CONTRACTS.

Where a contract is made for the purchase or sale of personal property, or concerning it, and one of the parties fails or refuses to comply with the contract, the other party cannot, as a general rule, compel the enforcement of it by law. His only remedy is to bring a suit for damages for the breach of the contract, In nearly all contracts about personal property, the question is only one of price or pecuniary value, and the payment of damages in money by the party who violates the contract will adequately compensate the other party, but where a person has purchased real property, and seeks the aid of a court to obtain it, the law presumes that he bought it for some reason besides its mere pecuniary value, perhaps for a residence or cultivation, and deemed it worth more to him than the price it would bring in the market, and money damages would not fully compensate him for the loss of it, because damages are always measured by actual marketable value. Therefore courts will enforce contracts for the sale of real estate, by decrees of specific performance. As a general rule, contracts for the sale of real estate must be made in writing and signed by the parties, in order to be binding upon them, and capable of being enforced by such decrees. Under some circumstances, however, verbal contracts for the sale of real estate will be enforced by courts of equity. Where a party to such a contract refuses to comply with it, and it is apparent to the court that a judgment at law against him for damages will not be a complete and adequate remedy to the other party, the court will exercise its equitable jurisdiction, and decree a specific performance of the contract. In such a case something besides the mere verbal contract must be proved—some circumstances which will show that by reason of such contract, one of the parties has been placed in a position where he will sustain loss and wrong unless the contract be carried out. For instance, suppose a person should make a verbal contract for the purchase of land, for a home, or for business purposes and pay part of the price, and take possession under the contract, and erect buildings and make other permanent improvements for the purpose for which he purchased it, and after all this the seller refuses to complete the contract. In such case the buyer is in a position where he is liable to suffer great loss and wrong, and he can, therefore, invoke the power of a court in equity by a petition for specific performance of verbal contract, because having relied upon it, he partially performed the contract on his part, and has no other adequate remedy, and the court will render a decree directing the other party to carry out his part of the contract. The right to relief in such a case rests not upon the contract alone, but also upon what has been done by the complaining party in pursuance of the contract. This is the general rule. In Iowa, however, the statute provides that acceptance of the purchase price, or a part thereof, by the seller of land, shall make a verbal contract of sale, binding.

LAW QUESTIONS CONSIDERED

DISCHARGE FROM INDUSTRIAL SCHOOL.

A subscriber, Marshalltown, Iowa.—(1) When does a girl become of legal age in Iowa? (2) A girl nearly nineteen years old is in the industrial school in Iowa. When and how can she be discharged therefrom?

Answer.—(1) When she is eighteen years old. (2) The girl is committed to the industrial school till she is twenty-one years old. The law provides that the board of control of state institutions may at any time after the girl has been there for one year, order her to be discharged or paroled as a reward for good conduct, and the board may, without regard to one year's service, or her conduct, order her discharge for urgent and sufficient reasons. Also, the superintendent of the school may, with the approval in writing of the board of control, place the girl with any person or family of good character, under an agreement in writing with them to properly care for her and educate her, for such time as may be fixed in such agreement. There is no other way by which the girl can lawfully leave the school till she is twenty-one years old.

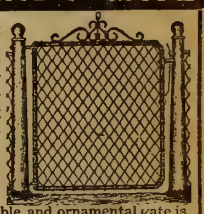
PRIVATE ROAD—PRESCRIPTION TEN YEARS.

An Iowa Subscriber.—The public road by R's farm was quite a distance from his house, and about ten years ago he built at his own expense a private road, from the public road past his house, and joining the public road again further on. All this private road was on R's land except a few rods that crossed the corner of an adjoining ten acre lot owned by K. Soon after this private road was opened it became the main road for travel by the general public on account of a steep hill on the original route, which was dangerous at times. (1) Does constant use of such a road by the traveling public for more than five years make the road a public one the same as though legally established? (2) Can K, whose land is crossed by said road, close the road at his boundary lines?

Answer.—It does not. Where a road is not established by regular proceedings at law, and the owner does not dedicate the right of way for a

$1.90 FOR THIS DANDY GATE

These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**



Iowa Gates

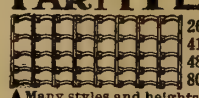
The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

IOWA GATE CO., 9th St., Cedar Falls, Ia.

FARM FENCE FROM FACTORY TO FARM



26-inch Hog Fence,.....14c.
41-inch Farm Fence,....21c.
48-inch Poultry Fence...22½c.
80-rod spool Barb Wire, $1.55

Many styles and heights. Our large Free Catalog contains fence information you should have.

COILED SPRING FENCE CO. Box 29 Winchester, Ind.

FARM FENCE
41 INCHES HIGH
100 other styles of Farm, Poultry and Lawn Fencing direct from factory at save-the-dealer's-profit-prices. Our large catalog is free.

21 CENTS A ROD

KITSELMAN BROS. Box 298 Muncie, Ind

Cheap as Wood.

We manufacture **Lawn and Farm Fence. Sell direct** shipping to users only, at **manufacturers' prices.** No agents. **Our catalog is Free. Write for it today.**

UP-TO-DATE MFG. CO. 927 10th St., Terre Haute, Ind.

ORNAMENTAL FENCE
25 Designs—All Steel

Handsome, cost less than wood, more durable. Don't buy a fence until you get our Free Catalogue and Special Prices.

We can save you money.

Kokomo Fence Machine Co.
498 North St., Kokomo, Ind.

public road, the public must continuously use the same as a public road for ten years, under a claim of right as against the owner, in order to make it a public road. Use by permission of the owner is not sufficient. (2) If K did not dedicate any of his land for a road, and made no contract with R, which binds him to allow the road to cross his land, he can close it at his boundary lines.

Ask your neighbor to subscribe for The Homestead.

HINTS-SUGGESTIONS-DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

TO KEEP WAGON BOXES AND RACKS WHEN NOT IN USE.

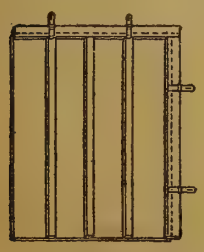
Wagon boxes, hay, corn and stock racks, become badly twisted if left for any length of time on the ground or on an uneven surface. To prevent this set four posts ten feet by sixteen feet apart, have them come about three feet above the ground, depending on the height of the majority of your wagons. Nail a 3x6 on the long sides. Wagon racks when placed on these will not only be kept in better shape, but will also be much easier to handle. It will be much better if this can be under a shed roof for the sake of the racks.

To Keep Nails, Screws, Nuts, Bolts, Etc.

It is always hard to keep the little things in the shop in good shape, and where they can be found. If the various sized brads, nails, nuts, bolts, screws, etc., are kept in a common box, the one a person is looking for can seldom be found and often when it is badly needed it may be right there, but cannot be located. If kept in separate covered boxes they have to either be marked or all of them examined. If marked the covers often are changed. A better way is to keep them in large-necked, heavy glass bottles, such as mustard, pickles, olives, etc., come in. When washed clean they make ideal receptacles for these little things. They can then be seen and the right ones easily chosen. It will also be noticed when the supply is running low, and it can then be replenished on the first trip to town.

A Durable Stack Cover.

A very durable stack cover can be made of boards, in sections about four feet wide by six feet long. Place four boards one inch by four feet by six inches side by side and fasten together by braces. Paint joints on upper side and paint bats before covering the joints. Do not run bats way to the top, but run one bat along the top, extending over about two inches on half of them and put no bats on the other half, so that the bat will cover them both. Put bats on right side of each section so that it will cover the edge of next section. Place barn hasps on the bats so that they will fit staples on the companion section. Care should be taken to get these hasps and staples rightly located. These covers will be found to be very convenient to use as stack covers, covers for machinery, chick coops, pig shade, cattle shade, etc. Being light and movable they can be put to a great number of uses and being rigid are not easily blown away, nor will they sag.



A Cheap, Efficient Seed-Corn Drier.

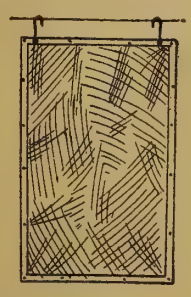
Seed corn should be picked early, and hung up immediately, not being allowed to lie in piles, as it heats quickly. A cheap yet efficient rack can be quickly and easily made. Take a three-fourths-inch board one foot wide and three feet long, bore a half-inch hole in the end. Now drive a row of ten-penny nails up each side through from both ways, having the rows the length of a nail apart, and the nails in the rows the same distance apart, also drive a row of finishing nails up each edge of the board. The nails should be driven at an angle so as to hold the corn on. In driving the nails drive only a few on one side, and then turn the board over and drive them through from the other side to prevent striking the points when working. A rack of this size will hold a hundred ears, or about two bushels. This will keep the corn so widely separated that it will not touch even at the butts, so it will never have to be touched during curing. The racks can be easily filled and hung up and also taken down and piled up when not in use, allowing the space to be utilized for other purposes. The cost of this rack will be about 14 cents.

A Bull Blind.

If the bull is vicious or goes through the gates, a very effective remedy is a blind made of heavy leather. Make it to strap around his horns and to come down past his eyes about five inches, fitting it closely to each side of his head. If the leather is stiff and heavy it does not need to be fastened below. Many valuable bulls have been sold because they were vicious when a dollar or so spent for a blind would have saved many hundreds of dollars' loss.

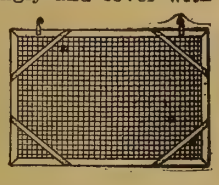
A Protection From Switching Cows.

Nothing is more annoying than being hit by a cow's tail when milking. To prevent getting hit stretch a wire along the ceiling, just back of the cow's rump, then take a board or grain sack and fasten wire hooks to it so it will hang directly back of the cow. If a grain sack is used it will be necessary to put a stick in it to fasten the hooks to, and also to keep it out its full width. With this the cow can switch to her heart's content, but the milker is fully protected, for she hits the board and cannot hit the milker. It also protects him from being hit by the cow directly back of him.



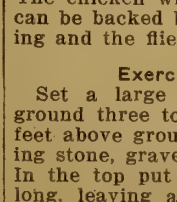
To Keep Chickens Out of the Stable.

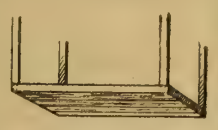
Make a frame the size of the barn door, brace it strongly and cover with chicken wire. Put on rollers or hooks to hang on track. When door is closed take off from track and hang it on the inside of the door. The chicken wire can be backed by fly netting or sheeting and the flies also kept out.



Exercise the Bull.

Set a large post or log into the ground three to four feet, leaving six feet above ground, set it firmly, packing stone, gravel or cement around it. In the top put an inch pin four feet long, leaving a foot above the post. For the sweep take a young tree twenty-five to thirty feet long, bore a hole seven to ten feet from the butt end and with a chisel trim away about the hole so that the pole is allowed to play up and down without breaking the pin. On the short end hang a kettle or nail on boards, troughwise, to hold stone enough to balance the long arm. At the end of the long arm bore a hole large enough to get a snap in. Nail a chain along the upper side of the pole, leaving the ring or snap hanging in the hole. This is done to prevent the bull from unfastening the snap, as many of them will do if it is not protected. In fastening the bull do not fasten the snap into the ring in his nose, but have a large ring in the end of the chain that is too large to slip through the ring in his nose. Run the chain up through the nose ring and fasten to the chain on the pole. Be sure to have a swivel in the chain or at the snap so that in turning around the bull will not twist the chain and break it. Locate if possible in a shady place. If your bull is logy, or will not breed, a few hours a day for a month on this turnstile will do wonders for him, bringing back his appetite, his bright eye and vitality. He will play around, shaking it up and down and running around in a circle.



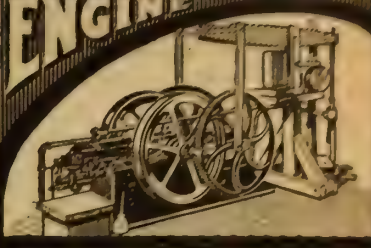


For Calf Pails or Milk Stools.

Calf pails or milk stools under foot are both annoying and dangerous to stock and men. A very simple swinging shelf can be made to hold them where they are clean, out of the way, and always there when they are wanted.

In Ireland, the number of cattle and poultry has increased, but all other animals show a big decrease. Pigs in one year, have decreased 19.9 per cent.

Read my Book-See my Prices-Before you buy any ENGINE



This WITTE Engine, after 26 years, still giving good service to R. A. Stone, Chillicothe, Mo.

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Kerosene, Gasoline & Gas

You can now own an Engine for less than you can do without one.

Look at These Prices!

2 H-P, $39.45; 4 H-P, $75.50; 6 H-P, $99.25; 8 H-P, $149.90; 11 H-P, $218.90; 20 H-P, $389.50

Other Sizes, up to 40 H-P, Proportionally Low.

Stationary, Portable, Skidded and Sawrig styles. Standard for 27 years. Why pay two prices for a good engine or take chances on a poor, or doubtful engine for any kind of a price, when the WITTE is so low-priced and saves you all the risk.

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Easy terms of payment, at regular prices. You are sure of a a square deal, when you buy of me

Book Free Get my Book before you arrange to try any engine. Costs you nothing to be sure of your selection, even if you don't pick a WITTE. Learn the inside of the engine business and how to judge engines for yourself.

Send me just your address so I can send you my New Book with my Latest and Best Offer by return mail.

How to Judge an ENGINE WITTE

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Suppose You Try Grading Your Seed Grain Under A Guarantee!

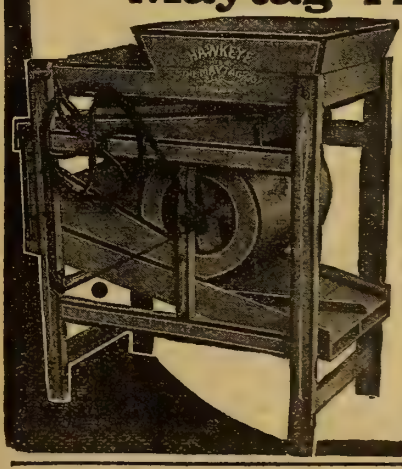
Grade and clean your seed wheat—oats—any grain—with a Maytag HAWKEYE Grader and Cleaner; and if you can tell us, after harvest, that it did not make an increase in your yield—more than enough to pay for the grader—*we'll return your money.*

What we *know* about this money-making machine is summed up in that offer. We couldn't afford to make it if we were not safe in doing so. And as we *are* safe, then you cannot afford to be without this grader.

We can prove to you that men using the Maytag HAWKEYE Grain Grader and Cleaner have made $7.00 more net profit per acre on oats—over $3.00 more net profit per acre on spring wheat—over $6.00 more net profit per acre on winter wheat. Can you beat that for an easy money-making proposition?

In other words, others have paid for this machine with the increased returns from three acres of oats, or a little over three acres of winter wheat, or seven acres of spring wheat. You cannot make anywhere near as much money on any other investment, and we say a HAWKEYE Grain Grader and Cleaner is the most profitable machine you can buy.

Maytag HAWKEYE Grain Grader & Cleaner



is a *completely guaranteed* machine. You don't have to keep it, or pay a cent for its use—if it doesn't do all we claim.

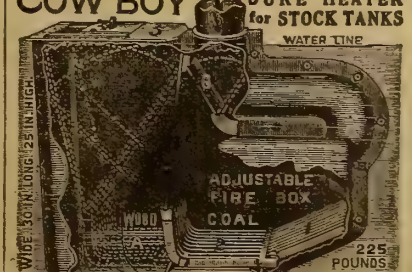
The Maytag HAWKEYE Grain Grader and Cleaner grades and cleans corn, all kinds of small grains and grass seeds; separates grain into proper grades for planting; takes out all dirt, trash, etc.; selects good seed from bad—grades perfectly and cleans thoroughly, a grader and fanning mill in one.

Write *now* for the facts. Free printed matter tells how this machine is made—how it operates—what it will do for you—what it has done for others. It will actually be your biggest money-maker. Don't go into another season without learning about it. Ask your dealer, or write us at once for complete information.

The Maytag Company

400 North St. Newton, Ia.

COW BOY SURE HEATER for STOCK TANKS



DON'T BURN CORN

this Winter to heat the ice cold water for your stock. Burn coal, cobs or wood in a

COW BOY TANK HEATER

Quickest Heater; Strongest Draft; ashes removed without disturbing the fire; keeps fire 24 hours; Absolutely Safe; pays for itself in 2 months with 4 cows; SELF SINKING; adapted to large or small tanks. Most reliable, practical, convenient and efficient Tank Heater manufactured.

OUR DISC JOINTERS for Plows bury all corn stalks, manure, etc., deep in the furrow where it will make fertilizer and not interfere with preparing best seed bed or best cultivation of crop. Consult your dealer at once. Write for illustrated, descriptive folders.

THE WILLS MANUFACTURING CO.

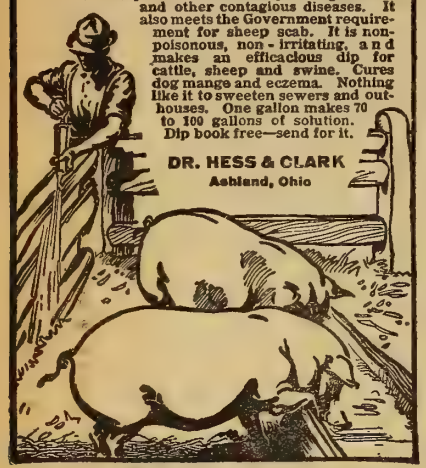
30 Seventh St. Mendota, Ill.

Disinfect Your Pens

HOG profit is absolutely dependent on hog health. You can't market heavyweights from carelessly kept pens. If you would gain the most return for feed and labor spent, keep all premises germ-free and hygienic with occasional applications of Dr. Hess Dip and Disinfectant. This is a guaranteed germ and vermin killer as well as a powerful deodorizer and disinfectant. It reaches down into cracks and crannies where lice and other vermin hide and quickly ends them. But more than this,

Dr. Hess Dip and Disinfectant

sprinkled about the hog pens and sleeping quarters materially lessens the liability of hog cholera and other contagious diseases. It also meets the Government requirement for sheep scab. It is non-poisonous, non-irritating, and makes an efficacious dip for cattle, sheep and swine. Cures dog mange and eczema. Nothing like it to sweeten sewers and outhouses. One gallon makes 70 to 100 gallons of solution. Dip book free—send for it.



DR. HESS & CLARK
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CORN

the ONLY CORN MAGAZINE in the WORLD

I'm full of practical and scientific information; How to grow more and better corn; How to build up your soil; How to save labor; How to get more profits from your live stock; How to improve your home and the experience of corn growers, breeders, feeders, judges and experts—making me the greatest possible source of information for you. 100,000 corn growers read me every month. I'll satisfy you or refund your money in full.

Send your name and address with 50c for one year or $1 for three and make sure of receiving the September and October issues—"Seed Corn Specials."

Local men wanted as permanent representatives—good cash proposition—write for information.

CORN PUBLISHING CO., Herington

Write for Catalogue

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Quaker City Mills

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10 Days' Trial—Freight Paid

Write for our grinding mill catalogue at once, also for booklet on labor-saving farm machinery at bargain prices.

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The Grip That Will Not Slip

The grip of the SQUARE DEAL is exemplified in every knot on SQUARE DEAL Fence. You should get acquainted with this grip if you want fence that will cost you less, and last longest. Stock cannot go through it or under it.

Square Deal Fence

has one-piece stay wires—33 to every rod. Each stay wire acts as a post. There are many other reasons you should know about. Write us for price list, dealer's name, and we will send you Repp's New Calculator—worth its weight in gold—FREE. (30)

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530 Industrial St. PEORIA, ILL.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

NEWS OF THE SALE RING

Walker Bros. Polled Durham Sale.

That there is a strong tone to the cattle business was evidenced at the recent sale of Polled Durhams made by Walker Bros., Ord, Neb., on October 15th. These gentlemen maintain an excellent herd of cattle, and they each year make a sale of the surplus young stock. They have been making a good lot of money for themselves and sending out each year an excellent lot of stock that cannot but be of great value to the stock raising industry of the country. In the sale made a few days ago, they sold only a part of the surplus for the year and it netted them something over $5,000. Buyers were present from several states, and while they were not all supplied, yet it shows that there is a big interest in good cattle, and in Walker Bros.' in particular. The thirty-eight head were sold in a little over an hour's time and resulted in an average of $132.00 per head, and when one considers that a great number of them were 1913 calves it goes to show that they were appreciated. Col. Z. S. Branson did the selling.

FEMALES.

Dora X, calved 1906; T. M. Willeman, Central City, Neb.	$125.00
Delia X, calved 1905; J. H. Snell, Cambridge, Neb.	135.00
Buttonwood Lily X, and c. c., calved 1906; Rathbun Bros., Ord, Neb.	150.00
Gay Lady X and b. c., calved 1908; Johnson Bros., Loup City, Neb.	162.50
Daisy Hampton S. H. and b. c., calved 1908; Martin Christensen, Elba, Neb.	125.00
Mabel 2d X, calved 1909; J. Aagard & Sons, Ord, Neb.	130.00
Emma Beauty X, calved 1908; Rathbun Bros.	145.00
Lady Mary X, calved 1903; H. W. Deuker, Kalona, Iowa	95.00
Mamie Mazurka S. H., calved 1908; H. J. Burtner, Litchfield, Neb.	150.00
Uno S. H., calved 1908; Axel N. Miller, Elba, Neb.	125.00
Sylvanite X, calved 1910; Ketterer Bros., Bethany, Neb.	125.00
Hero's Lassie X, calved 1911; H. W. Deuker	120.00
Royal Queen S. H., calved 1911; Elmer S. King, Ord, Neb.	140.00
Daffodil X, calved 1911, J. Aagard & Sons	125.00
Elinor X, calved 1911; T. J. Hermanson, Dannebrog, Neb.	110.00
Juniata X, calved 1911; C. R. Corbett, Elmwood, Neb.	122.50
Ino S. H., calved 1911; Geo. Lange, Ord, Neb.	132.50
Magnolia S. H., calved 1911; H. W. Deuker	105.00
Golden Lily X, calved 1912, A. C. King, Ord, Neb.	140.00
Gwendolyn X, calved 1912; A. C. King	100.00
Dona S. H. calved 1912; A. C. King	100.00
Cora 4th X, calved 1908; H. W. Deuker	150.00

BULLS.

Golden Goods X, calved Jan. 1913; H. O. Pierce, Sargent, Neb.	225.00
Contender X, calved Jan. 1913; J. B. Zigmund, Ord, Neb.	250.00
Dexter X, calved July, 1912; H. O. Pierce	205.00
Spokesman X, calved Jan., 1913; C. R. Corbett, Elmwood, Neb.	170.00
Crusader X, calved Nov., 1912; A. H. Mattson, Loomis, Neb.	145.00
Designer X, calved Dec., 1912; Robert Keyes, Sargent, Neb.	145.00
Charger X, calved March, 1913; Wm. Davidson, Gresham, Neb.	255.00

SUMMARY.

31 females	$3,620; average	$116.45
7 bulls	1,395; average	199.28
38 head	5,015; average	132.00

The Beck Horse and Jack Sale.

The sale of draft stallions and mares and jacks and jennets made by Henry Beck, Litchfield, Neb., at Loup City, Neb., on October 23d, was well attended and a very successful sale was held. The demand for jacks was not strong, but the bidding on the other stock was fairly liberal throughout the sale. Only a few recorded jennets were offered and they sold well. Most of them that were offered were old and many undersized, yet they were all disposed of and at prices entirely satisfactory to Mr. Beck. Those that he is retaining are all of standard size and good colors, and probably the best lot of jennets in one herd in the West. S. F. Sears, Long Pine, Neb., was the heaviest buyer of the top jennets, while S. R. Sidders, of Giltner, Neb., took the greatest number and was a good bidder on practically everything in the sale. J. W. Jordon, Bloomfield, Neb., secured the two year Shire stallion offered, and certainly bought one of the best Shires within the state today. Col. Z. S. Branson conducted the sale and again demonstrated his ability to get the high dollar. His reputation as a salesman is of the very best, his methods clean cut and honorable. A list of all jennets selling for $50 or more and all other sales follow:

1.	Jennet, C. J. Benson, Sargent, Neb.	$ 50.00
12.	Jennet, S. R. Sidders, Giltner, Neb.	82.50
15.	Jennet, J. F. McCracken, St. Paul, Neb.	52.50
16.	Jennet, C. J. Benson	55.00
17.	Jennet, S. F. Sears, Long Pine, Neb.	105.00
18.	Jennet, S. F. Sears	62.50
19.	Jennet, S. F. Sears	75.00
20.	Jennet, S. F. Sears	95.00
21.	Jennet, S. F. Sears	95.00
22.	Jennet, J. L. Hoisington, Arcadia, Neb.	62.50
23.	Jack, North & Robinson, Grand Island, Neb.	205.00
24.	Jack, W. Johnson, Central City, Neb.	580.00
29.	Belgian mare, H. A. Beeson, Comstock, Neb.	245.00
30.	Belgian mare, H. A. Beeson	290.00
33.	Percheron mare, J. W. Heapy, Litchfield, Neb.	330.00
34.	Belgian stallion, J. W. Heapy	820.00
35.	Percheron stallion, J. W. Richards, Beaver Crossing, Neb.	565.00
36.	Percheron stallion, North & Robinson	360.00
37.	Percheron stallion, W. Hawk, Loup City, Neb.	410.00
38.	Shire stallion, J. W. Jordan, Bloomfield, Neb.	835.00

SUMMARY.

22	jennets	$1,023; average	$ 46.50
2	jacks	785; average	392.50
3	mares	870; average	290.00
5	stallions	2,990; average	598.00

Williamsburg Angus Sale.

John Cash, Jr., Parnell, Iowa, held his sale of Aberdeen Angus cattle at Williamsburg, Iowa, on October 16th. P. J. Donohoe, of Holbrook, and William Cash, of Williamsburg, were associated with him in this sale. It was a good offering and while the inclement weather prevented many from attending the sale the buyers were eager for good cattle. J. W. Norton topped the sale on the good bull, Black Andrew D. at $500. Esper, a good Trojan Erica bull sold for $300 to J. Tuder & Son. Fred Roberts topped the female offering on the show cow, Shenandoah Elizabeth 2d at $300. Escher & Ryan were the heaviest buyers taking nine choice females at conservative prices. The results of this sale show an increasing demand for good beef cattle. N. G. Kraschel and Fred Reppert did an excellent job of auctioneering. A list of those selling at $100 and over is appended:

FEMALES.

Blackcap Jam and b. c., calved February, 1907; D. W. Driscoll, Williamsburg, Iowa	$205
Blackbird Irma, calved October, 1907; J. R. Kline, Knoxville, Ia.	190
Lou Blackbird, calved February, 1908; D. Dwyer, Marengo, Iowa	200
Blackbird McHenry 52d and c. c., calved February, 1903; D. M. Driscoll	220
Blackbird of Woodlawn 15th and b. c., calved April, 1906; J. R. Kline	240
Black Cap of Clover Leaf, calved October 1911; H. O. Dunlap, Williamsburg, Iowa	280
Blackcap 26th, calved January, 1904; Escher & Ryan, Irwin, Ia.	215
Oakville Blackbird and b. c., calved March, 1906; D. M. Scanlan, Holbrook, Iowa	265
Blackbird Josephine and c. c., calved March, 1910; Escher & Ryan	200
Black Beauty of Cloverland 4th and b. c., calved January, 1906; T. Jeff McCollister, Lone Tree, Iowa	180
Blackcap Blackie and b. c., calved November, 1909; White Bros. Perry, Iowa	270
Blackbird of Oakville 2d, calved September, 1911; T. Jeff McCollister	110
Black Lassie 2d and c. c., calved January, 1907; G. F. Gallagher, Williamsburg, Iowa	175
Blackbird of Oakville, calved September, 1907; J. R. Kline	140
Black Cap of Cloverleaf 2d, calved November, 1912; P. J. Donohoe, Holbrook, Iowa	235
Black Beauty of Oakville and c. c., calved December, 1908; O. R. Stevenson, Quimby, Ill.	150
Blackbird Dollie, calved June, 1908; T. Jeff McCollister	100
Blackberry of Oakville and b. c., calved July, 1910; Dodd & Sinn, Barnes City, Iowa	120
Black Doll C., calved September, 1911; Escher & Ryan	140
Black Eyes of Whiteside, calved November, 1907; Escher & Ryan.	130
Lakeside Black Gertrude, calved August, 1908; Escher & Ryan	120
Shenandoah Elizabeth 2d and c. c., calved June, 1909; Fred Roberts, Atlantic, Iowa	300
Erica McHenry 18th and b. c., calved January, 1909; Jas. Vaughn, Marengo, Iowa	125
Brookside Eline 2d and b. c., calved April, 1908; Escher & Ryan	165
Erica Enterprise, calved March, 1911; D. M. Scanlon	125
Erica C. 3d, calved August, 1912; Jos. Cox, Williamsburg, Iowa	120
Eulima's Pet, calved January, 1907; P. Leahy & Son, Parnell, Iowa	325
Emeritenia and c. c., calved February, 1908; O. R. Stevenson	170
Eleine of Escher Springs, calved August, 1906; C. E. Felger, Bowen, Ill.	125
Eramera of Homedale 2d, calved December, 1909; Dan M. Scanlon	130
Erica H. 2d, calved July, 1911; P. Leahy & Son	150
Erica C. 4th, calved June, 1912; Escher & Ryan	115
Earalina and b. c., calved February, 1903; H. Watkins, Williamsburg, Iowa	125
Eraline, calved December, 1908; J. Cox	105
Eslow 2d, calved March, 1912; J. Tudor & Son	175
Earlina 2d, calved April, 1907; Wm. Cash, Williamsburg, Iowa	110
Panetta 2d, calved August, 1910; Wm. Cash	150
Pride of Oakville 3d, calved May, 1908; J. Dinsler, Amana, Iowa	115
Pride of Oakville 2d, calved April, 1908; Dr. Boman, Williamsburg, Iowa	185

BULLS.

Black Erwin 2d, calved July, 1912; C. R. Baxter, Bowen, Ill.	165
Black Andrew D., calved May, 1911; J. W. Norton, Fontanelle, Iowa	500
Black Earl of Oakville, calved September, 1912; Chester Davis, Millersburg, Iowa	135
King of Cloverleaf 3d, calved August, 1912; T. Jeff McCollister	125
Esper, calved June, 1911; J. Tudor & Son	300
Edward C. of Oakville, calved October, 1912; Geo. Tobias, Monticello, Iowa	170
Caruso of Lone Dell, calved June, 1912; David Jones, Williamsburg, Iowa	150

SUMMARY.

7 bulls	$1,540; average	$220
44 females	7,175; average	163
51 head	8,715; average	171

Gudgell & Simpson's Hereford Sale.

A good number of breeders attending the American Royal stayed over Saturday, October 11th to attend the sale of Hereford heifers held by Gudgell & Simpson, Independence, Mo., and another successful sale was recorded. The uniform lot of bred heifers went at a general average of $230.42. The top price paid was $335, two head selling for that amount. This shows the evenness of the offering. F. G. Oxsheer, Middleton, Texas, who purchased one of the tops, was the heaviest single buyer. Mr. Oxsheer has been purchasing cattle from the Gudgell & Simpson herd for years and appreciates the value of the Anxiety strains. Bull buyers were not out in any numbers and but five head of the John Lenox consignment were sold. Col. Fred Reppert did the selling and was ably assisted in the ring by Colonels Zaun and Snell.

FEMALES.

Annabel 13th, calved Mar. 23, 1911; E. H. Woods, Clements, Kan.	$250
Belle 30th, calved Sept. 29, 1911; T. Carmichael, Odessa, Mo.	175
Blanche 65th, calved April 1, 1911; E. H. Woods	255
Blanche 67th, calved Aug. 22, 1911; F. G. Oxsheer, Middleton, Texas.	335
Bright Duchess 66th, calved Feb. 12, 1911; J. E. Stewart, Lucerne, Mo.	150
Bright Duchess 68th, calved June 13, 1911; Mousel Bros., Cambridge, Neb.	275
Bright Duchess 69th, calved Aug. 23, 1911; F. G. Oxsheer	240
Bright Duchess 70th, calved Oct. 24, 1911; G. L. Argenbright, Adrian, Mo.	245
Bright Lass 12th, calved May 10, 1911; J. E. Stewart	210
Capitola 50th, calved July 4, 1911; W. H. Burns, Delphos, Kan.	250
Correline 15th, calved Mar. 29, 1911; F. G. Oxsheer	225
Creamette 16th, calved July 31, 1911; F. G. Oxsheer	255
Domestic 23d, calved May 23, 1911; F. G. Oxsheer	310
Donation 29th, calved April 7, 1911; F. G. Oxsheer	280
Donna Anita 5th, calved Mar. 12, 1911; E. H. Woods	335
Dorana 25th, calved July 5, 1911; F. G. Oxsheer	255
Dorinne 31st, calved July 23, 1911; W. T. McCray, Kentland, Ind.	165
Floweret 14th, calved September 28, 1911; B. B. Miller, Mt. Ulla, N. C.	215
Garlandia 3d, calved Oct. 2, 1911; John B. Hays, Spruce, Mo.	195
Georgia 6th, calved Mar. 4, 1911; J. E. Stewart	160
Gracious Lass, calved Aug. 23, 1911; J. E. Stewart	160
Gramophone 7th and c. c., calved Jan. 30, 1911; G. F. Sauerhage, Lohman, Mo.	210
Gwendoline 47th, calved Feb. 19, 1911; F. G. Oxsheer	230
Honora 10th, calved April 9, 1911; E. W. Woods	225
Pertinacious 6th, calved July 30, 1911; John T. Hays	200
Pretty Lady 47th, calved Feb. 23, 1911; J. E. Stewart	210
Sylph 13th, calved July 22, 1911; Mousel Bros.	235
Wenona 11th, calved Dec. 24, 1911; B. B. Miller	250
Glycerine 5th, calved June 19, 1911; W. B. Harris, Windsor, Mo.	205
Godiva 6th, calved June 17, 1911; F. G. Oxsheer	300
Gondola 4th, calved July 7, 1911; Mousel Bros.	170
Gossamer 15th, calved Aug. 1, 1911; W. B. Harris	210
Grandiosa 2d, calved Sept. 28, 1911; E. H. Woods	300
Gratia 11th, calved July 24, 1911; J. E. Stewart	150
Gwendoline 48th, calved Oct. 3, 1911; B. B. Miller	200
Lady Stonway 12th, calved April 23, 1911; F. G. Oxsheer	315
Lorena 8th, calved August 27, 1911; John T. Hays	185
Lovely 6th, calved Feb. 14, 1911; J. E. Stewart	170
Marietta 36th, calved Aug. 21, 1911; T. Carmichael	185
Miss Caroline, calved June 30, 1911; Mousel Bros.	310
Miss Catharine 14th, calved July 8, 1911; B. B. Miller	240
Mystic 21st, calved Aug. 17, 1911; F. G. Oxsheer	320
Mytilene 17th, calved Aug. 12, 1912; F. G. Oxsheer	225
Pegrisca, calved Aug. 27, 1911; E. H. Woods	225
Petunia 30th, calved April 11, 1911; W. B. Harris	200

Sorosis 17th, calved May 11, 1911; John B. Hays 180
Welcome 21st, calved Oct. 21, 1911; W. B. Harris 240

BULLS.

Dorothy's Diamond, calved May 23, 1912; G. F. Sauerhage 205
Gregory Fatts, calved May 30, 1912; Wm. Bollis, Independence, Mo... 150
Harris Prince, calved Mar. 30, 1912; E. H. Woods 230
Harris Prince 5th, calved April 8, 1912; B. A. Bligerstaff, Spruce, Mo. 205
Woodrow Wilson, calved May 27, 1912; R. T. Alexander, Canadian, Texas 220

SUMMARY.

47 females ..$10,830; average...$230.42
5 bulls .... 1,010; average... 202.00

Robison Bros.' Percheron Sale.

The opening Percheron sale of the fall season was held at Morton, Ill., October 20th, by Robison Bros., and the large attendance and wide distribution of the horses to buyers from Iowa, Illinois, Indiana, Ohio and New York, was conclusive evidence of the healthy condition of the market for draft horses. While prices were not high, they were satisfactory, and represented a good profit to the gentlemen making the sale, as with the exception of seven head, every horse sold was bred and raised on the Robison farm. There was a strong mare demand, but prices for the stallion colts were not as strong as they would have been had the sale been held three months later, yet they were very good considering the large number of weanlings. As it was those who bought the young studs secured excellent values for their money. The mares were an attractive lot, all breeders and all workers, and should prove remunerative investments for the buyers. The fact that the entire offering of forty head was sold in a little over two hours' time shows the demand for the horses and the snappiness of the sale. Every known defect was carefully pointed out by the Messrs. Robison, and the sale conducted in a clean and satisfactory manner. Colonels Jones, Reppert, Seeley and Carius were the auctioneers, and the following is a detailed list of the sales:

MARES AND FILLIES.

Imp. Garcia, foaled 1905; D. Augustin, Carlock, Ill. $600
Imp. Nocoase, foaled 1908; Paul Graze, Alta, Ill. 600
Imp. Henreuse, foaled 1907; P. J. Tisseret, Perry, Iowa 500
Imp. Heliade, foaled 1907; L. S. Lacy, Farina, Ill. 505
Imp. Howe, foaled 1907; J. Henning, Hopedale, Ill. 590
Imp. Heroine, foaled 1907; H. E. Tener, New York, N. Y. 500
Imp. Heresie, foaled 1907; Paul Graze 405
Imogene, foaled 1906; Ernest Crier, Carlock, Ill. 500
Verceil, foaled 1909; H. E. Tener.. 475
Flossie, foaled 1908; H. E. Tener... 525
Virle, foaled 1910; J. Henning 400
Exter, foaled 1910; H. L. Preston, Louisville, Ohio 315
Vandreit, foaled 1911; Stewart Bros., Manna City, Ill. 535
Vermelia, foaled 1909; H. L. Preston 350
Vermouthette, foaled 1910; Roy Allison, Farmer City, Ill. 360
Delma, foaled 1910; C. W. Sherman, Peoria, Ill. 340
Vega, foaled 1910; Summer Bros., Metamora, Ill. 415
Imogene, foaled 1911; Peter Musselman, Perry, Iowa 210
Vernet, foaled 1911; Wm Terrell, Highland, Iowa 360
Vernocrase, foaled 1912; Chester Ebersole, Goshen, Ind. 450
Vernece, foaled 1912; C. B. Augustin, Allentown, Ill. 325
Veronese, foaled 1912; Chester Ebersole 335
Vega, foaled 1912; Peter Musselman 150
Vieta, foaled 1912; C. B. Augustin 400
Velma Vermouth, foaled 1913; Dr. Harry B. Cade, Macomb, Ill. 225
Vermouth's Queen, foaled 1913; D. Augustin 330
Vermouth's Empress, foaled 1913; A. L. Robison & Sons, Pekin, Ill. 200
Princess Vermouth, foaled 1913; H. S. Griesenier, Hopedale, Ill. 220

STALLIONS.

Velpau, foaled 1912; P. J. Tisseret 400
Vendome, foaled 1912; Ed Hodgson, El Paso, Ill. 250
Vassar, foaled 1912; D. K. Roth, Gibson City, Ill. 280
Vernon, foaled 1912; H. E. Tener.. 460
Vendome, foaled 1912; D. K. Roth.. 280
Verlaine, foaled 1912; W. H. Welch, Lexington, Ill. 150
Vacherot, foaled 1913; Isaac Argenbright, Blandinsville, Ill. 250
Vermouth Jr., foaled 1913; R. Wicker, Emden, Ill. 215
Raabe, foaled 1913; John Neuhausen, Flanagan, Ill. 200
Vanloo, foaled 1913; C. J. Riddle, Wapella, Ill. 225
Varen, foaled 1913; Warrier Jones, Midland City, Ill. 205
Stud colt, foaled 1913; D. Augustin 110

SUMMARY.

28 mares & fillies $11,175; average $400
12 stallions ..... 3,025; average 252
40 horses ..... 14,200; average 355

The Rude Duroc Sale.

The sale of R. Rude & Son, at Moorhead, Iowa, on October 22d was quite well attended and they sold everything at an average of $35. They had some unusually good spring boars in this sale and they were appreciated. No. 16, a son of High Chief, topped the sale at $72.50, going to M. T. Tweedy, Legrand, Iowa. The largest spring boar was No. 12, also a son of High Chief, and he went to J. D. Isaac, Red Oak, Iowa, at $60. Walter McAndrews, Vail, Iowa, secured a great bargain in No. 14 at $61 and Sam Oldhausen got No. 13 at the same figure. Colonel Kraschel cried the sale and did excellent work. Below we list those selling for $30 and over:

2. A. C. Thoreson, Mondamin, Iowa $35.00
3. A. C. Thoreson 35.00
4. B. Petersen, Ute, Iowa..... 37.00
5. F. L. Bell, Moorhead, Iowa. 36.00
6. Brady Lund, Moorhead, Iowa 32.50
7. F. M. Goldsberry, Pisga, Ia. 31.00
9. Wm. Hammer, Pisga, Iowa.. 40.00
10. Mark Ballantine, Soldier, Ia. 39.00
11. S. J. Sorenson, Moorhead, Ia. 36.00
12. J. D. Isaac, Red Oak, Iowa.. 60.00
13. Sam Oldhausen, Sutherland, Iowa 61.00
14. Walter McAndrews, Vail, Ia. 61.00
16. M. T. Tweedy, Legrand, Iowa 72.50
18. S. E. Sievers, Soldier, Iowa. 36.00
19. John Rustin, Moorhead, Ia. 41.00
20. Olof Sandvold, Moorhead, Ia. 30.00
21. Geo. Elias, Ute, Iowa 36.00
22. M. O. Brittain, Soldier, Iowa 35.00
27. Gill Brittain, Soldier, Iowa. 40.00
35. Gill Brittain 50.00

Theo. Foss' Sale of Polled Durhams and Durocs.

The cold weather and the steady rain prevented many from attending the sale of Duroc Jersey swine and Polled Durham cattle that was made by Theo. Foss, Sterling, Neb., on October 16th. While the attendance from a distance and locally as well was somewhat limited, the offering was disposed of. Walter Johnson, Dorchester, Neb., was the heaviest bidder on all the Polled Durhams and secured the herd bull. The cattle were right from the pasture and where they really sold too low, they averaged a little less than $100 per head. The Durocs made an average of $25 per head and all selling above that amount are listed. Col. E. Z. Russell and Colonel Putman did the selling:

1. Herman Ernst, Graff, Neb.....$76
2. W. M. Putman & Son, Tecumseh, Neb. 50
3. Henry Buss, Columbus, Neb.... 33
4. M. M. Hendricks, Falls City, Neb. 30
8. Herman Ernst 29
10. E. L. Busch, Syracuse, Neb..... 26
10½. E. L. Busch 35
20. Frank Leephart, Graff, Neb.... 32
34. C. L. McLeod, Dannebrog, Neb.. 25
38. Fred Heussman, Sterling, Neb. 26
39. O. S. Larson, Logan, Iowa..... 27

L. B. Branson's Short-horn Sale.

Immediately following the Polled Durham sale of Walker Bros., Ord, Neb., on October 15th, L. B. Branson, of that place, sold something near fifty head of Short-horns, and a few Polled Durham cattle. These cattle were taken right from the pastures, with absolutely no fitting, were sold without guarantee, as Mr. Branson is removing to the coast country, and yet they sold well. There were, however, a lot of most excellent cattle among them, and had they not been pasture bred, and had they been fitted a bit and guaranteed, they would have sold for considerably more money. As it was they average $100.50 per head. Col. Z. S. Branson did the selling:

FEMALES.

Mysie Lady 5th, calved 1908; L. T. Frederick, Memphis, Neb. ..$150.00
Roan Queen and c. c, calved 1908; E. W. Goodrich, Sargent, Neb. 102.50
Roan Rose and c. c., calved 1908; V. J. Zigmund, Ord, Neb., ... 140.00
Lily Rose and c. c., calved 1911; Martin Christensen, Elba, Neb. 115.00
Valley Rose, calved 1911; V. J. Zigmund 107.50
Mary Templeton 2d, calved 1906; P. E. Donovan, Greeley Center, Neb. 122.50
Mina's Beauty, calved 1904; E R. Frederick, Memphis, Neb. 122.50
Mayflower and b. c., calved 1910; P. E. Donovan 120.00
Lad's Pansy and c. c., calved 1908; V. J. Zigmund 120.00
Jennie, calved 1906; H. W. Deuker, Kalona, Iowa 100.00
Cilla 3d, calved 1911; V. J. Zigmund 100.00
Havelock Lady, calved 1911; V. J. Zigmund 125.00
Arabella of Havelock, calved 1910; V. J. Zigmund 135.00
Arabella of Waverly, calved 1903; P. E. Donovan 107.50
Arabella Girl and c. c., calved 1911; V. J. Zigmund 132.50
Hannah's Beauty, calved 1909; H. J. Burtner, Litchfield, Neb. ... 125.00

BULLS.

Scottish Boy, calved 1913; Loyd E. Hickey, Gretna, Neb. 160.00
45 head ...$4,522.50; average....$100.50

Harris & Sons' Hereford Cattle Sale.

The sale of Hereford cattle held by O. Harris & Sons, Harris, Mo., on October 22d was a decided success. Buyers were in attendance from a wide range of territory and all were enthusiastic Hereford men. The show cattle attracted much attenion and the few show cattle listed to sell drew lively competition. The top of the sale was $2,600 paid by Johnson Bros., Eagle, Colo., for Gay Lad 12th, the junior yearling by the champion Gay Lad 6th. Competition above $1,500 on this bull was between the buyers and E. H. Taylor, of Kentucky. Repeater 18th, an October yearling by Repeater, sold as an extra. He was taken by A. Christiansen, Eagle, Colo., at $2,100. Gay Lad 9th, the senior yearling show bull that has stood as stable mate to Repeater 7th and second to him in most of the shows, went to Mr. Taylor at $1,500. Secretary Kinzer represented Mr. Taylor at the sale. The top heifer, Princess Repeater, was bought by him at $550. The sons and daughters of Repeater and Gay Lad 6th were in strong demand as were females bred to this great pair of herd bulls. The females were not highly fitted which is to the buyers' advantage, yet a much higher average would have resulted had they been carrying more flesh. Col. Fred Reppert did the selling. Col. Harry Graham and Colonel Nelson assisted in the ring:

BULLS.

Gay Lad 9th, calved Oct. 30, 1911; E. H. Taylor, Jr., Frankfort, Ky. $1,500
Harris Prince 242d, calved Dec. 21, 1911; J. B. Ashby, Audubon, Iowa 250
Repeater 12th, calved Jan. 3, 1912; Graver Bros., Ewing, Neb. 360
Gay Lad 12th, calved Jan. 10, 1912; Johnson Bros., Eagle, Colo. 2,600
Gay Lad 13th, calved Feb. 26, 1912; J. B. Gillett, Marfa, Tex. 900
Beau Rex 7th, calved Mar. 24, 1912; C. G. Gunkle, Belfield, N. D. 205
Harris Prince 251st, calved April 1, 1912; D. P. Kelley, Fairpoint, Iowa 255
Dan Rice, calved April 3, 1912; G. L. Johnson, Harris, Mo.... 210
Pompey, calved April 27, 1912; Gibbons & Son, Aatlantic, Iowa 215
Harris' Prince 252d, calved April 28, 1912; J. A. Shade, Kingsley, Iowa 200
Harris' Prince 264th, calved May 7, 1912; W. T. McCray, Kentland, Ind. 260
Major, calved May 15, 1912; F. C. Gulick, Jasper, Mo. 210
Harris' Prince 258th, calved June 10, 1912; Clark Bros., Cainesville, Mo. 200
Harris' Prince 261st, calved Aug. 2, 1912; C. G. Gunkle 205
Beau Drover, calved Sept. 19, 1912; Graver Bros. 230
Gay Lad 15th, calved Sept. 18, 1912; J. E. Thompson, Martinsville, Ill. 900
Prince Perfection 3d, calved Sept. 24, 1912; W. T. McCray 265
Prince Perfection 4th, calved Sept. 27, 1912; G. W. McDonald, Brookfield, Mo. 230
Repeater 20th, calved Nov. 9, 1912; Geo. J. Anstey, Massena, Iowa 350
Repeater 17th, calved Aug. 26, 1912; Brown Ackerman, Colum-

CHESTER WHITE OWNED BY J. L. BARBER, HARLAN, IOWA. SEE PAGE 36.

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bia, Mo. 230
Gay Lad 19th, calved Nov. 4, 1912; University of Idaho, Moscow, Idaho 325
Gay Lad 17th, calved Sept. 29, 1912; Cyrus Tow, Norway, Iowa 270
Prince Perfection 5th, calved Nov. 12, 1912; W. B. Calvert, Rock Falls, Iowa 275
Gay Lad 20th, calved Nov. 26, 1912; W. L. Sinsonaffer, Laclede, Mo. 225
Gay Lad 22d, calved Jan. 4, 1913; Dave Axton, Sabetha, Kan. 400
Gay Lad 23d, calved Jan. 5, 1913; Thos. Trammel, Sweetwater, Tex. 410
Gay Lad 24th, calved Jan. 24, 1913; J. E. Stewart, Lucern, Mo. 765
Repeater 18th, calved Oct. 12, 1912; A. Christiansen, Eagle, Colo. 210

FEMALES.

Harris' Princess 210th, calved Dec. 2, 1910; H. F. Johnson, Aliance, Mo. 460
Princess Repeater, calved Sept. 2, 1910; E. H. Taylor, Sr. 550
Princess Repeater 3d, calved Jan. 10, 1911; A. Christiansen 510
Midie, calved Jan. 24, 1911; Len Corbin, Newtown, Mo. 225
Victoria, calved Feb. 19, 1911; D. C. Herbert, New Cambria, Mo. 350
Carrie, calved Feb. 25, 1911; Geo. Boles, Lubbock, Tex. 205
Lily, calved Mar. 4, 1911; Alex Wallace, Creauson, Ky. 205
Harris' Princess 212th, calved Mar. 12, 1911; H. F. Johnson .. 200
Harris' Princess 213th, calved Mar. 25, 1911; Len Corbin 215
Mag, calved Mar. 29, 1911; H. F. Johnson 300
Lizzie, calved April 5, 1911; H. F. Johnson 300
Melba Harris, calved April 13, 1911; J. A. Shade, Kingsley, Ia. 280
Mollie May, calved April 27, 1911; P. F. Weidauer, Pomroy, Iowa. 200
Bonnie Lass, calved April 27, 1911; D. C. Herbert, New Cambria, Mo. 225
Topaz, calved April 29, 1911; H. F. Johnson 245
Harris Princess 217th, calved May 2, 1911; J. A. Shade 255
Water Cress 2d, calved May 2, 1911; August Smith, Cantrell, Iowa 255
Mildred, calved May 7, 1911; Alex Wallace 200
Mildred G., calved May 7, 1911; H. F. Johnson 300
Helena, calved May 9, 1911; D. C. Herbert 200
Harris' Princess, calved May 10, 1911. H. F. Johnson 325
Frieda, calved May 10, 1911; Alex Wallace 230
Carnation 2d, calved May 11, 1911; Alex Wallace 300
Missouri 2d, calved May 13, 1911; P. F. Weidower 250
Gretta, calved May 17, 1911; H. F. Johnson 250
Peggy, calved May 19, 1911; P. F. Weidower 255
Mary E., calved May 3, 1911; H. F. Johnson 250
Anita, calved June 1, 1911; P. F. Weidauer 215
Bellona, calved June 3, 1911; H. F. Johnson 435
Juna, calved June 3, 1911; Alex Wallace 205
Letty, calved June 7, 1911; P. F. Weidauer 285
Harris Princess 222d, calved June 14, 1911; D. P. Kelley, Fairport, Iowa 200
Lucita, calved June 15, 1911; P. F. Weidauer 250
Eebe, calved June 25, 1911; Geo. Boles 215
Locust Beauty 2d, calved July 1, 1911; Len Corbin 260
Ramona, calved July 7, 1911; Graver Bros. 210
Harris' Princess 225th, calved July 13, 1911; Geo. Boles 205
Harris' Princess 227th, calved Aug. 8, 1911; Geo. Boles 230
Harris' Princess 256th, calved Mar. 31, 1913; W. J. Davis & Son, Jackson, Miss. 200

SUMMARY.

28 bulls ....$14,545; average....$519.46
39 females. 10,450; average.... 267.95
67 head .... 24,995; average.... 373.05

Woodlawn Farm Holstein Sale.

The second annual sale of Holstein cattle at Woodlawn Farm, Sterling, Ill., October 21st and 22d, drew buyers from all sections of the country, and while the attendance was not as large as the merits of the offering warranted, yet those present were there for business, and a clearance was made at satisfactory figures. For the sale, Manager Williams had selected an attractive lot of cattle, and that they were appreciated was evidenced by the prices paid. This was particularly true of the daughters of Mr. Williams' great bull, Sir Netherland Cornucopia, of which there were eleven in the sale. The value of this bull as a sire rests not only on the fact that he comes from high producing ancestry on both sides, but rather on his ability to reproduce. His daughters in the sale were as handsome and well-developed a lot of young cows as one often sees, all two and three years old, and made the handsome average of $472. There was strong competition on all daughters of this bull, and every animal sold was bred to him brought added value. It was striking evidence as to what a great sire will do. In future sales Woodlawn Farm will be able to present more of the get of this great bull, and there can be no question but what he is destined to be one of the great Holstein sires of the country, as in fact he is now. There were no extreme prices paid, but values were at a healthy level. Superintendent Davis of the United States Indian School, at Genoa, Neb., was one of the top buyers of the sale, taking seven head for a total of $3,600. He was very partial to daughters of Sir Netherland Cornucopia, as was also George R. Herbert, Cuba, Ill., who was an active bidder on the better sorts. P. P. Lewis, St. Louis, Mo., was the largest individual buyer, taking nineteen head at prices which should make them a desirable investment. Buyers were present from Iowa, Illinois, Missouri, Nebraska, Oklahoma, Wisconsin, Indiana, Ohio and Minnesota, while there were mail bids from several states. The sale was conducted throughout in a strictly high-class manner, striking evidence of which was given at the close when Mr. Davis, of the United States Indian School, made a little talk, stating that he considered the sale had been conducted in a most honorable manner, and that the management at Woodlawn Farm deserved great credit, not only for the excellent character of the cattle they had presented, but also for the fair, square and honorable way in which the sale had been conducted from start to finish, and that on behalf of himself and the other buyers present he wanted to make that public recognition of the methods employed by Woodlawn Farm. It was a well-merited tribute, as Woodlawn Farm management certainly added to its reputation and widened its circle of friends and customers by the high-class manner in which the sale was conducted. Col. D. L. Perry officiated on the block throughout both days in his usual efficient manner, and was assisted in the ring by Georg B. Buck. The following is a detailed list of the sales:

FEMALES.

Goshen Sadie Vail, calved 1909; A. N. Knowles, St. Louis, Mo. $380
Aaggie Netherland Carlotta, calved 1908; J. W. Miller, Savanna, Ill. 200
Dusky Cordova Luella, calved 1911; J. W. Miller 180
Beth De Kol Clothilde of Deerhaunt, calved 1908; Edwin L. Dillon, Harman, Ill. 160
Deerhaunt Pietertje Korndyke, calved 1909; P. P. Lewis, St. Louis, Mo. 110
Lady Jane De Kol, calved 1905; E. A. Miller, Kansas City, Mo. 400
Winsome Mamie Princess, calved 1905; J. H. Sauer, Chadwick, Ill. 135
Pauline Winsome De Witt, calved 1907; C. E. Powell, Polo, Ill..... 245
Marjorie of Elm Hill, calved 1908; C. E. Powell 175
Silvia Beemster Korndyke, calved 1912; John C. Howard, Russell, Ill. 215
Woodlawn Daisy Cornucopia, calved 1909; United States Indian School, Genoa, Neb. 580
Woodlawn Sadie Cornucopia, calved 1909; George R. Herbert, Cuba, Ill., ... 550
Goshen Edith DeKol, calved 1910; United States Indian School ... 450
Jennie Pledge 4th, calved 1904; C. A. Scott, Milwaukee, Wis. 500
Pride Beauty, calved 1907; P. B. Lewis 250
Helena Burke DeKol 4th, calved 1908; A. N. Knowles 250
Fannie Winsome De Witt, calved 1910; P. P. Lewis 200
Lady DeKol Princess, calved 1908; C. E. Powell 225
Portia DeKol, calved 1904; M. F. Carroll, Epworth, Iowa 165
Deerhaunt Pietertje Pontiac, calved 1912; Wm. Warner, Chadwick, Ill. 130
Woodlawn Tula Cornucopia, calved 1910; John L. Born, St. Paul, Minn. 500
Woodlawn Bawn Netherland, calved 1909; United States Indian School 600
Agatha Lucella Tula, calved 1903; C. M. Kingrey 230
Laura DeKol McGregor, calved 1909; T. W. Blackman, Weleetka, Okla. 175
Countess Tula Beatrice Serida, calved 1903; C. M. Kingrey..... 265
Calliopele Wayne, calved 1910; C. A. Scott 350
Woodlawn Cornucopia Jenny, calved 1909; P. P. Lewis 300
Arlean Colanthe McGregor, calved 1909; P. P. Lewis 250
Deerhaunt Grace Pontiac, calved 1909; C. E. Powell 130
Winsome Marcia Beemster, calved 1908; D. W. Eddy, Colo, Iowa.... 190
Teresa 6th's DeKol 2d, calved 1909; P. P. Lewis 300
Bertha Tula Merdu DeKol calved 1907; J. M. Deets, Sterling, Ill. .. 155
Christian Tula DeKol, calved 1909; Wm. Warner 175
DeKol Hengerveld Medal, calved 1910; C. A. Scott 400
Mapleside Queen 4th, calved 1909; P. P. Lewis 275
Netherland Gold Dust 3d, calved 1902; J. W. Miller 155
Belle Wakatomica Karel Korndyke, calved 1912; Enoch Carlson, Milan, Ill. 130
Zola Wayne Burke, calved 1909; C. E. Powell 235
Pauline Deane 4th DeKol, calved 1909; C. V. Swartz, Dixon, Ill.... 235
Deerhaunt Duchess Korndyke, calved 1912; J. W. Miller 170
Countess Elevanah Idlewild, calved 1910; P. P. Lewis 195
Tula Lucella Idlewild, calved 1911; Enoch Carlson 280
Eva Deane, calved 1902; C. E. Powell 240
Topsy Pietertje Pauline DeKol, calved 1912; H. G. Miller, Roseville, Ind. 200
Sadie Wayne Pietertje, calved 1909; P. P. Lewis 350
Flora Cinderella, calved 1910; George R. Herbert 300
Daisy Maud Beatrice DeKol, calved 1906; Bert Irwin, Mt. Carroll, Ill. 285
Daisy Maud Beatrice DeKol 2d, calved 1911; P. P. Lewis 335
Tula DeKol Deane, calved 1910; J. W. Miller 205
Etta McCrea Deane, calved 1908; P. P. Lewis 275
Mattawee Lola DeKroft DeKol, calved 1912; W. P. Utley, Sterling, Ill. 115
Mattawee Theodora DeKol, calved 1912; P. P. Lewis 100
Cow, calved 1911; Geo D. Brown, Polo, Ill. 165
Cow, calved 1910; United States Indian School 370
Howland Nina Burke, calved 1906; United States Indian School 300
Pauline Korndyke DeKol, calved 1904; Geo. B. Buck, Sunny Hill, Ill. 145
Lily Cornucopia Beets, calved 1908; C. V. Swartz, Dixon, Ill. 305
Deerhaunt Pontiac Clothilde, calved 1910; M. F. Carroll 150
Mattawee May Waldorf Spofford, calved 1913; W. P. Utley 120
Mattawee Maria Spofford, calved 1913; W. P. Utley 125
Pauline DeKol Beauty 2d, calved 1908; C. V. Swartz 300
Clothilde Pride Burke, calved 1907; United States Indian School.... 300
Cora Ophelia, calved 1907; P. P. Lewis 275
Rosa Alcena Hengerveld 2d, calved 1910; P. P. Lewis 175
Woodlawn Cornucopia Fox, calved 1910; R. O. Heatwole, Brooklyn, Iowa 500
Maggie Mercedes Vriend, calved 1910; P. P. Lewis 225
Woodlawn Johanna Cornucopia, calved 1910; A. N. Knowles 500
Clothilde Winsome Korndyke, calved 1910; Frank Baker, Davenport, Iowa 370
Tina Mercedes Keyes, calved 1907; R. A. Miller 425
Alta Clothilde Beemster, calved 1908; Frank Baker 180
Woodlawn Cornucopia Velma, calved 1909; Frank Baker 410
Lady Manor DeKol Burke, calved 1906; P. P. Lewis 200
Berzina Pontiac McGregor, calved 1911; George B. Buck 125
Deerhaunt Princess DeKol, calved 1909; Paul T. Galt, Sterling, Ill. 125
Grace Korndyke of Mapleside, calved 1907; Paul T. Galt 125
Heifer, calved 1912; C. V. Swartz.. 175
Cow, calved 1912; George R. Herbert 520
Heifer, calved 1913; H. G. Miller.. 100
Mollie Hatch Concordia, calved 1906; P. P. Lewis 200
Mapleside Queen 2d, calved 1907; C. M. Kingrey 180
Heifer, calved 1913; W. P. Utley .. 110
Fairmount Daisy Uilkje, calved 1908; E. J. Ray, Kewanee, Ill.... 475
Cow, calved 1910; C. M. Kingrey.. 365
Alice of Elm Hill Farm, calved 1907; P. P. Lewis 250
Lois DeKraft Korndyke, calved 1911; B. E. Gerkins, Leclaire, Ia. 100
Lee Twisk, calved 1902; H. W. Hey, Polo, Ill. 300
Heifer, calved 1912; Frank Baker.. 355
Rosalie Queen DeKol, calved 1908; Ed L. Dillon, Harmon, Ill. 190
Prilly Hengerveld Walker, calved 1909; Frank Baker 325
Woodlawn Daisy Goshen Cornucopia, calved 1910; R. O. Heatwole 380
Ruth Nudine DeKol Clothilde, calved 1903; J. H. Sauer, Chadwick, Ill. 200
Aaggie Lula Clothilde, calved 1905; P. P. Lewis 115
Mercedes of Deerhaunt, calved 1908; J. H. Sauer 125
Princess Pauline Orwell Paul, calved 1906; P. P. Lewis 145
Deerhaunt Pontiac Korndyke Girl, calved 1910; Enoch Carlson 150

BULLS.

Duke Pietertje Deane, calved 1911; Enoch Carlson 200
Woodlawn Kuperus Cornucopia, calved 1912; George R. Herbert.. 225
Woodlawn Prince Cornucopia Segis,; A. C. Miller 185
Woodlawn Pledge Segis, calved 1913; Wm. Warner, Chadwick, Ill. 125
Woodlawn Segis Tula, calved 1913; C. M. Kingrey 125

SUMMARY.

101 females ..$25,360; average....$252
7 bulls ..... 1,010; average.... 143
108 head ..... 26,370; average.... 244

Pfander & McClelland Sale.

The sale of Pfander & McClelland at Clarinda, Iowa, on October 25th was well attended and forty-seven head were sold at an average of $36. The top of the sale was a Proud Col. sow and she went to T. J. Long, College Springs, Iowa, at $77. It was an even range of prices, there being nothing high nor nothing very low. Some of the boars in this sale should have brought more money, as they were a good lot throughout. There have been a great many sales at this point of late, and many had bought at previous sales. Col. Kraschel cried the sale. Below we list those selling for $25 and above:

1 Albert Cheney, Lenox, Ia.....$66.00
2 Stacy Douthit, Clarinda, Ia.... 34.00
3 T. J. Long, College Springs, Ia. 42.00
4 E. G. Day, Clarinda, Ia..... 51.00
5 A. O. Baiker, Riverton, Ia..... 44.00
6 Tom Day, Hepburn, Ia..... 40.00
7 T. J. Long 72.00
8 G. A. Smith, Desmet, S. D..... 45.00
9 L. L. Hensleigh, Blanchard, Ia. 28.00
10 J. C. Beek, Shambaugh, Ia..... 28.00
11 S. A. Johnson, Red Oak, Ia.... 28.00
12 S. E. Sprague, New Market, Ia. 29.00
13 J. L. Berry, Shambaugh, Ia.... 29.00
14 Eric Erickson, Norwich, Ia.... 40.00
15 Day & Welsh, Hepburn, Ia.... 32.00
16 Day & Welsh 32.00
17 S. A. Kepner, Shambaugh, Ia.. 41.00
18 Alfred Falk, Clarinda, Ia..... 28.00
19 Crane & Son, Shambaugh, Ia.. 36.00
20 T. Tomlinson, New Market, Ia. 36.00
21 B. C. King, Villisca, Ia..... 31.00
22 S. W. Oyster, Villisca, Ia..... 28.00
23 E. D. Nelson, College Springs, Iowa 25.00
24 Harlon Gilmore, Clarinda, Ia.. 38.00
25 Day & Welsh 33.00
26 Isaac Horning, College Springs, Iowa 36.00
27 T. E. Shannon, Braddyville, Ia. 34.00
29 H. D. Wagner, Clarinda, Ia.... 30.00
30 H. W. Bower, Westboro, Mo... 30.00

32	Reehard Sump, Clarinda, Ia...	30.00
33	Frank Diggs, Clarinda, Ia.....	29.00
37	W. R. White, Mabton, Wash..	52.50
38	T. J. Long	52.00
39	T. J. Long	48.00
40	T. J. Long	77.00
41	T. Tomlinson	65.00
42	Jacob Hann, Clarinda, Ia.....	40.00
43	E. S. Bolen, Clarinda, Ia.....	29.00
44	Frank Brokaw, Clarinda, Ia...	35.00
46	M. T. Crowell, Riverton, Ia....	25.00
47	Frank Diggs	26.00

Cyrus A. Tow's Hereford Sale.

Cyrus A. Tow, Norway, Iowa, held a sale of Hereford cattle at his Fairview Farm, October 21st. This proved to be one of the greatest sales of beef cattle that has been held in Iowa for many years. It was a superior collection of bulls and females and it is only such collections that can draw such large crowds from a large number of states. Mr. Tow is to be congratulated not only on the outcome of the sale but on being able to present such a high-class offering. Fairview Prince, the Minnesota champion, was the top of the sale selling at $1,225 to L. E. Potter, Springfield, Minn. William Ottsen, of Iowa secured Mary's Distinction, a good young bull at $780. J. P. Oleson secured a great young bull in Standard 6th at $850. Harris Princess with a show calf by Gay Lad 6th topped the female offering selling for $780 to Elling Ellingson, of Norway. Mr. Tow made many friends by the straightforward manner in which he conducted the sale. Fred Reppert did a great day's work in disposing of the offering and has another great Hereford sale to his credit. A complete list of the sales follow:

BULLS.

Standard 6th, calved 1912; J. P. Oleson, Norway, Ia.....$	850
Standard 7th, calved 1912; Chas. B. Suiter, Cedar Rapids, Ia.....	360
Standard 12th, calved 1912; Melvin Barker, Odgen, Ia.....	235
Standard 13th, calved 1912; C. P. Sorenson, Balaton, Minn.....	300
Standard 14th, calved 1912; F. Mayne, Harlan, Iowa.....	245
Standard 15th, calved 1912; W. H. Moody, Cordova, Ill.....	330
Standard 16th, calved 1912; B. L. Melin, Red Wing, Minn.....	325
Distinction 2d, calved 1912; Williams & Lyle, Exira, Ia.....	700
Distinction 3d, calved 1912; Jos. Uyll, Jr., Mapleton, Ia.....	450
Distinction 4th, calved 1913; S. D. Agr. College, Brookings, S. D...	425
Mary's Distinction, calved 1912; W. Ottsen, Bennett, Ia.....	780
Beau Shade, calved 1912; J. A. Shade, Kingsley, Ia.	200
President's Choice, calved 1912; Wm. Braddock, Chadron, Neb..	500
Prince Donald 4th, calved 1912; Wm. Braddock	250
Mack, calved 1912; Wm. Braddock	510
Financier, calved 1912; Wm. Braddock	235
Fairview Prince, calved 1912; L. E. Potter, Springfield, Minn...	1,225
Prince Fairfax, calved 1912; W. T. McCray, Kentland, Ind.	300
Fred Real, calved 1912; Smith & Wilson, Decatur, Ind.....	410
Gay Beau, calved 1911; Wm. Braddock	775
Distinction 5th, calved 1913; J. F. Brannon, Williamsburg, Ia.....	440
Distinction 4th, calved 1913; Geo. Amstey, Massena, Iowa	225

FEMALES.

Rose Blossom 3d, calved 1911; C. P. Sorenson	380
Miss Columbus, calved 1911; Barney Hook, Wellsburg, Ia.....	400
Sister Marcella, calved 1912; A. H. Schultz, Pierce, Neb.....	250
Alto, calved 1912; Wm. Braddock	280
Amy, calved 1912; Barney Hook..	260
Myra, calved 1912; A. H. Schultz..	230
Nettie, calved 1912; W. P. McCray	225
Nora, calved 1912; F. Mayne	240
Grace, calved 1912; Eldon Barker	235
Pretty Lady 2d, calved 1911; O. S. Gibbons & Son, Atlantic, Ia...	320
Lady Animate, calved 1908; Thompson Bros. West Point, Neb.	700
Miss Annabelle, calved 1909; Thompson Bros.....	750
Faith 3d, calved 1910; Wm. Braddock	340
Rose Donald, calved 1908; Wm. Braddock	370
Harris Princess, calved 1910; Elling Ellingson, Norway, Ia.....	780
Finella's Lady, calved 1912; C. P. Sorenson	265
Lady Elect 7th, calved 1911; Geo. Smith, Solon, Iowa	320
Miss Brock, calved 1910; Chas. Slatten, Lawton, Okla.....	655
Petunia, calved 1910; J. A. Shade	300
Fairview Blush, calved 1911; Elling Ellingson	410
Lady Chance, calved 1906; Elling Ellingson	420
Fairview Betty, calved 1910; Wm. Andrews & Son, Morris, Ia.....	225
Amy Donald, calved 1911; Deal & Stidwell, Queen City, Mo.....	500
Fairview Lass, calved 1911; C. Jacobson	650
Lucy, calved 1909; Chas. Claten..	380
Harris Princess 92d, calved 1908; Warren T. McCray	560
Marcella 2d; calved 1908; John Vigars, Eldora, Ia.....	425
Lady Mischief, calved 1912; Iowa Agr. College, Ames, Ia.....	300
Lady Elect 8th, calved 1911; Barney Hook	340
Standard's Lady, calved 1911; C. P. Sorenson	320
Disturber's Lassie 7th, calved 1912; A. B. Cook, Helena, Mont.	775
Miss Nettie, calved 1908; Elling Ellingson	430
Metta Watson, calved 1911; C. P. Sorenson	285
Princess R. 31st, calved 1910; Ben Thorne, Elberon, Ia.....	290

SUMMARY.

22 bulls	$10,065;	average.....	$457
35 females	14,075;	average.....	402
57 cattle	24,140;	average.....	424

F. W. Akers' Short-horn Sale.

F. W. Akers, held his closing-out sale of Short-horn cattle and Poland China hogs at Gilman, Iowa, on October 16th. The cattle sold well as the list below will indicate. J. L. McIlrath sold the offering. Cattle selling at $100 and above are listed:

BULLS.

Baron Surmise, calved 1906; Walter Brown, Grinnell, Iowa....$	110.00
Baron Surmise 2d, calved 1912; William Weaver, Ankeny, Ia..	135.00
Baron Lavender, calved 1912; J. M. Stephenson, Mason City, Ia.	100.00
American Baron, calved 1913; T. E. Benson, Geneva, Ia.....	122.50

FEMALES.

Scottish Lady 3d, calved 1907; F. H. Ehlers, Tama, Ia.....	160.00
Calf out of above, G. J. Gavanaw, New Hampton, Ia.....	127.50
Miss Butterfly, calved 1912; Lewis Bros., Marshalltown, Ia.	110.00
Rosebud 7th, calved 1910; Lewis Bros.	160.00
Autumn Violet 5th, calved 1911; Geo. Bonewell, Grinnell, Ia...	120.00
Autumn Rose 2d, calved 1912; Geo. Bonewell	110.00
Beauty 2d, calved 1910; E. W. Harmon, Rhoades, Ia.....	110.00
Queen Gloster, calved 1906; Fred Walker, Gilman, Ia.....	115.00
Queen Gloster, calved 1910; Fred Walker	152.50
Queen Gloster 2d, calved 1909; M. L. Andrews, Melbourne, Ia....	120.00
Utility Duchess, calved 1907; Fred Walker	122.50
Victoria 3d, calved 1908; C. Thompson, Legrand, Ia.	100.00
Rose, calved 1907; E. H. Jackson, Jefferson, Ia.....	130.00

SUMMARY.

6 bulls	$ 660;	average.....	$110
32 females	3,025;	average.....	95
38 head	3,685;	average.....	97

Sheehan's Poland China Sale.

The sale of J. M. Sheehan, at Stuart, Iowa, on October 3d, proved a good one and he sold over sixty head at an average of $40 per head. There were no high figures paid, but it was an even range of prices with the demand very active. The top was No. 14½ that went to Frank Roberts at $101. Everything considered the sale was one of the very satisfactory ones of the season. Col. H. S. Duncan cried the sale. Below we list those selling for $35 and above:

1.	M. Mathina .....$	60.00
2.	W. W. Willey, Menlo, Iowa.	52.50
3.	J. E. Wies, Lancaster, Iowa	35.00
6.	H. H. Drayman, Stuart, Ia.	52.50
7.	H. Crabtree, Baxter, Iowa..	37.50
8.	Wm. Drayman	42.50
13.	C. A. Sweet	47.50
14½.	Frank Roberts, Dexter, Ia.	101.00
15.	J. T. Gift, Dallas Center, Ia.	57.50
16.	C. J. McIntyre, Stuart, Ia...	40.00
18.	E. Gillispie, Dexter, Iowa..	39.00
20.	Bert Ray, Greenfield, Iowa..	35.00
22.	Albert Ray, Greenfield, Iowa	57.50
27.	J. Wies	42.50
28.	T. A. Muldoon, Stuart, Iowa	42.50
33.	E. Gillespie	37.50
36.	Thos. Anglin, Stuart, Iowa.	35.00
38.	E. Gillespie	40.00
40.	W. Z. Swallow, Waukee, Ia.	43.00
41.	J. R. Doud, Stuart, Iowa....	43.00
49.	Wm. Weisner, Stuart, Ia...	38.00
50.	J. Krum, Postville, Iowa...	60.00
51.	J. P. Sheehan, Greenfield, Ia.	47.50
52.	Waltz Bros., Orient, Iowa ..	35.00
65.	Ring Bros.	35.00
66.	A. Lawson, Stuart, Iowa ...	35.00
67.	A. T. Smith, Dexter, Iowa..	35.00
68.	R. J. Dorgan, Booneville, Ia.	37.50

Cold's Short-horn Sale.

C. J. C. Cold, Berlin, Iowa, held a dispersion sale of his Short-horns on October 21st. A number of the cattle were of the Scotch-topped sorts and considering this sale was very satisfactory. Lady Lavender 7th was the top of the sale selling to M. H. Hillerbeck at $230. E. R. Silliman bought a number of desirable females at conservative prices. Carey M. Jones sold the offering in a highly creditable manner. A list of those selling over $100 each is appended:

BULLS.

Roan Marshall, calved 1912; F. F. Cold, Berlin, Iowa .....$	205.00
Royal Patience, calved 1908; W. W. Taylor, Plainfield, Ia.....	220.00
Merry Dale 2d, calved 1912; B. R. Jones	200.00
Prince Lewis, calved 1912; Garden Bros., Rhinebeck, Iowa...	135.00
Squire John 2d, calved 1913; O. Sanfield, Maxwell, Ia.....	130.00
Royal Patience 2d, calved 1912; E. R. Silliman, Colo, Ia.....	150.00

FEMALES.

Victoria 82d & c. c., calved 1909; G. C. Greve, Gladbrook, Ia...	200.00
Moss Rose 4th, calved 1906; E. R. Silliman	160.00
Lavender Lou, calved 1905; E. R. Silliman	170.00
Florence Nightingale, calved 1907; Geo. McDonald, Covington, Ind.....	205.00
Helen of Center, calved 1905; D. R. Jones, Linn Grove, Ia.....	165.00
Lady Lavender 7th, calved 1906; M. H. Billerbeck, Berlin, Ia...	230.00
Lavender Lassie, calved 1910; Geo. McDonald	145.00
Lavender Lady 9th, calved 1911; Geo. McDonald	160.00
Faith, calved 1911; E. R. Silliman	100.00
Moss Rose Mary, calved 1907; Geo. McDonald	155.00
Moss Rose Patience, calved 1912; E. R. Silliman	100.00
Spotted Lassie, calved 1910; E. R. Silliman	175.00
Roan Zella, calved 1911; Geo. McDonald	175.00
Sweet Marie, calved 1908; W. C. Wiese, Berlin, Ia.....	125.00
Jennie, calved 1906; Geo. McDonald	165.00
Matchless Pride 2d, calved 1909; James Dodd	155.00
Red Beauty, calved 1908; E. R. Silliman	185.00
Red Beauty 2d, calved 1909; Geo. McDonald	135.00
Olga Maid 2d, calved 1909; Gardener Bros.....	130.00
Berlin View Damsel, calved 1911; Geo. McDonald	140.00
Olga Nethersole, calved 1912; Gardener Bros.....	100.00
Lavender Best, calved 1911; Geo. McDonald	112.50
Helen of Berlin View, calved 1912; Geo. McDonald	112.50
Beauty of Berlin View, calved 1913; Gardener Bros.....	100.00

SUMMARY.

9 bulls	$1,242;	average....	$138
34 females	4,425;	average....	130
43 head	5,667;	average....	132

Williams Bros.' Sale.

One of the best Poland China sales held so far this fall was that of Williams Bros., at Villisca, Iowa, on October 23d, when they sold fifty head of boars and sows at an average of $45.10. The boys sold forty boars in this sale and ten head of sows. It was a good offering throughout and was seemingly well appreciated by the large crowd present. The top of the sale was No. 7, a spring boar sired by Big Sampson and out of a Pawnee Nelson sow, and he went to Frank Pelzer, Marne, Iowa, at $75. He was a splendid pig, large and smooth, with a big bone and if everything goes right with him will make an excellent herd boar. Col. Harve Duncan cried the sale assisted by Will Piper in the ring. Below we list those selling for $30 and over:

2.	R. W. Breckenridge, Clarion, Iowa	45.00
1.	Maasdam & Wheeler, Fairfield, Iowa	47.50
3.	Sam Goltry, Russell, Iowa..	50.00
4.	C. W. Humerick, Atlantic, Ia.	41.00
5.	C. S. Givan, Grant, Iowa	40.00
6.	Ewing Bros., Red Oak, Iowa	50.00
7.	Frank Pelzer, Marne, Iowa..	75.00
9.	J. E. Gibson, Emerson, Iowa	61.00
10.	Maasdam & Wheeler	38.00
11.	J. A. Friday, Murray, Iowa..	60.00
12.	G. A. Carleton, Clearfield, Ia.	42.50
13.	J. J. Caldwell, Morning Sun, Iowa	60.00
14.	A. G. Scott, Massena, Iowa..	42.50
15.	J. W. Newell, Villisca, Iowa	42.00
16.	Nels A. Peterson, Red Oak, Iowa	38.00
17.	Ed Olsen, Stanton, Iowa	42.00
18.	Bert Burnett, Villisca, Iowa.	40.00
19.	R. E. Foster, Red Oak, Iowa	47.00
20.	C. A. Hansen, Villisca, Iowa	45.00
21.	Maasdam & Wheeler	37.50
22.	J. E. Gibbon, Emerson, Iowa	52.00
23.	E. G. Anderson, Stanton, Ia.	45.00
24.	Barney Harvey, Corning, Ia.	40.00
25.	L. M. Smith, Griswold, Iowa	40.00
26.	Gilbert Rilander, Stanton, Ia.	50.00
27.	C. R. Warren, Villisca, Iowa	49.00
28.	A. P. Swanson, Villisca, Iowa	50.00
29.	J. A. Peterson, Stanton, Iowa	40.00
30.	Ed Peterson, Red Oak, Iowa	38.00
32.	Ed Bergren, Stanton, Iowa..	45.00
33.	Ewing Bros.	50.00
34.	C. C. Baker, Villisca, Iowa..	36.00
35.	C. S. Givans, Grant, Iowa ..	42.00
36.	J. J. Caldwell	52.50
37.	Perry Shipley, Nodaway, Ia.	42.50
38.	J. L. Williams, Red Oak, Ia.	39.00
39.	C. S. Givans	40.00
40.	J. A. Johnson, Grant, Iowa..	40.00
41.	H. L. Jones, Red Oak, Iowa.	38.00
42.	G. Gibson, Emerson, Iowa ..	57.50

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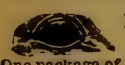

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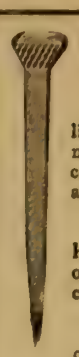

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44.	Swan Lundohl, Stanton, Ia.	31.00
45.	J. A. Pfander & Sons, Clarinda, Iowa	57.00
46.	Harry E. Burgus, Osceola, Ia.	46.00
47.	Maasdam & Wheeler	41.00
48.	E. M. Metzger, Fairfield, Ia.	47.50
49.	G. Gibson	41.00
50.	J. J. Caldwell	57.50

Messenger's Hampshire Sale.

Clayton Messenger, Keswick, Iowa, held his first sale of Hampshire hogs on October 14th. It was a success from every point of view. Eighty-two boars were sold and they were good ones. Buyers received good values. The sale was conducted in the same manner as all of Mr. Messenger's business, "On the square." Every animal offered was sold to the high bidder. H. D. DeKalb secured No. 12 at $155, No. 39 at $110 and No. 60 at $70. J. Crouch & Son secured No. 5 at $160 and C. P. Paulsen purchased No. 17 at $160. Buyers were present from several states and quickly absorbed the offering at appreciative prices as the list indicates. The sons of the undefeated grand champion, Messenger Boy, were in strong demand. Gene Fagan and Thos. E. Deem sold the offering and did an excellent day's work. Those selling at $35 and above are listed below:

1.	A. J. Shinn, Pittsfield, Ill.	$ 80.00
2.	H. R. Owens, Homestead, Ia.	40.00
3.	W. A. Clark, Pleasantville, Iowa	70.00
4.	sub. Robt. Clark, Columbus Jct., Iowa	45.00
5.	J. Crouch & Son, La Fayette, Ind.	160.00
7.	A. G. Rueben, Keswick, Ia.	37.50
8.	W. H. Crozier, Oskaloosa, Ia.	50.00
9.	Will Messenger, Keswick, Iowa	37.50
11.	C. L. Manch, Keswick, Ia.	37.50
12.	H. D. DeKalb, DeKalb, Iowa	155.00
13.	John Pfister, Keswick, Iowa	40.00
14.	Ed H. Sharp, Leon, Iowa	85.00
16.	H. W. Rueppel, Dysart, Ia.	52.50
17.	C. P. Paulsen, Nora, Neb.	160.00
18.	C. B. Luidart, Baton Rouge, La.	135.00
19.	A. W. Benson, Grundy Center, Iowa	70.00
21.	W. A. Clark	50.00
22.	A. Gunther, North English, Iowa	35.00
24.	Wm. McFarland, Syracuse, Neb.	57.50
25.	Ernest Byers, North Liberty, Iowa	55.00
26.	Queck Bros., Fontanelle, Ia.	37.50
28.	H. Koristra, Sully, Iowa	52.50
29.	Edgar Cornell, Rolfe, Iowa.	37.50
31.	John Giblin, Parnell, Iowa.	35.00
33.	M. C. Bellamy, Knoxville, Iowa	40.00
34.	E. L. Clark, Darlington, Mo.	47.50
35.	W. G. Turner, Kansas City, Mo.	50.00
36.	J. H. Missen, Lyons, Iowa.	70.00
37.	Tice Bros., Sully, Iowa	62.50
38.	J. W. Tatham, Woolstock, Iowa	50.00
39.	H. D. DeKalb	110.00
40.	C. W. Kellogg, Montour, Ia.	40.00
41.	Kelly & Williams, Sunnyside, Neb.	55.00
44.	Fred W. Kettler, Luzerne, Iowa	55.00
48.	Cary Feagins, Bussey, Iowa	52.50
49.	W. H. Schackner, Wellman, Iowa	35.00
51.	Art Shaw, Okaloosa, Iowa.	77 50
52.	E. Brotherson, Guernsey, Ia.	40.00
53.	H. R. Owens	55.00
54.	S. A. McCandless, Belle Plaine, Iowa	35.00
55.	Tice Bros.	35 00
56.	J. A. Watson, Grinnell, Ia.	35.00
57.	W. N. Talbert, Sully, Iowa.	35.00
59.	A. R. Anderson, Audubon, Iowa	60 00
60.	H. D. DeKalb	70.00
61.	Jos. Galvin, Pleasantville, Iowa	40.00
66.	S. C. Durst, Elk Creek, Neb.	47.50
72.	G. H. Dodds, Kenton, Ohio.	35.00
77.	A. H. Lindgren, Jensen, Neb.	40.00
84.	F. T. Quire Iowa	35.00 37.50
85.	D. W. Castor, Bellville, Ohio	85.00
86.	Geo. Schrader, Hopkinton,	
82 head	$3,910; average	$47.75

Barker Bros. & Crowell Duroc Sale.

A splendid crowd came out to the Duroc Jersey sale of Barker Bros. & Crowell, at Riverton, Iowa, on October 24th, and they disposed of forty head at an average of $37. Everything in the sale, excepting four or five head, were spring boars and gilts, and the sale was in all respects a good one and the prices were very satisfactory. There were no high tops and no low prices, but an even range prevailed throughout the sale. The offering was in nice condition and the boys were well pleased with the auction. Colonel Kraschel cried the sale. Below we list everything that sold for $30 and over:

1.	W. C. Ballinger, Sidney, Ia.	$42.50
2.	Richard Olte, Sidney, Iowa.	40.00
3.	Henry Shultice, Riverton, Ia.	48.00
4.	J. N. Crowell, Riverton, Iowa	40.00
5.	J. N. Crowell, Riverton, Iowa	38.00
6.	Hugh Brown, Riverton, Iowa	41.00
7.	Hugh Brown	41.00
8.	R. P. Dickson, Sidney, Iowa	37.00
8½.	E. Finnell, Hamburg, Iowa	31.00
10.	R. C. Doan, Riverton, Iowa.	43.00
11.	Day & Welsh, Hepburn, Ia.	46.00
12.	J. M. Crowell	38.00
13.	G. W. Feile, Riverton, Iowa.	30.00
14.	J. H. Stubbs, Riverton, Iowa	42.00
15.	John Furley, Riverton, Iowa.	39.00
16.	Q. Finnell	34.00
17.	J. N. Crowell	31.00
18.	J. N. Crowell	31.00
19.	J. N. Crowell	31.00
20.	G. W. Feile	32.00
21.	R. C. Doan	35.00
22.	G. W. Feil	37.00
23.	W. U. Acker, Riverton, Iowa	35.00
24.	J. N. Crowell	38.00
25.	J. H. Stubbs	40.00
26.	W. E. Whistler, Riverton, Ia.	45.00
27.	A. M. Hallum, Anderson, Ia.	28.00
28.	W. W. Polk, Sidney, Iowa.	25.00
29.	Orland Stevenson, Hamburg, Iowa	35.00
30.	K. H. Otte, Sidney, Iowa	38.00
31.	K. H. Otte	46.00
33.	G. W. Feil	32.00
34.	Roy Shutwell, Shenandoah, Iowa	36.00
35.	W. W. Polk	27.50
36.	Mont Olte, Sidney, Iowa	50.00
37.	W. S. Crane & Son, Shenandoah, Iowa	49.00
38.	Hugh Brown, Riverton, Iowa	36.00
39.	Ross Smith, Riverton, Iowa.	32.00

Lingford & Reilly's Poland China Sale.

The sale of Poland Chinas made by W. A. Lingford, Dannebrog, Neb., and L. F. Reilly, St. Paul, Neb., the sale being held at St. Paul on Oct. 24th was a decided success and one of the most inspiring of the season. This sale was made in one of the dry sections of the state, and was the only sale of a big circuit of Poland China sales that was carried through. It required some faith in the business to put up a sale in the face of such adversities as central and southern Nebraska have experienced the past couple of seasons, but that they were well repaid is shown in the sale average of $33.14 which was made on the forty-eight head sold. There were four head that were not sold, but the remainder of the fifty-two head cataloged found new homes. Buyers from a wide territory were present, and all complimented these gentlemen on the offering they put up. Col. H. S. Duncan did the selling in his usual creditable manner. All sales of $30 or more are listed.

BOARS

2	F. J. Sexsmith, Orient, Ia.	$50.00
4	G. B. Van Kleek, Central City, Neb.	41.00
6	Jas. Deitrick, Concord, Ill.	60.00
8	H. J. Taylor, North Loup, Neb.	37.50
9	R. B. Reynolds, St. Paul, Neb.	41.00
11	D. P. Wetzel, North Loup, Neb.	30.00
13	John Quandt, Grand Island, Neb.	30.00
16	J. W. Sheehan, Litchfield, Neb.	30.00
18	Herman Gronniger, Bendena, Kan.	35.00
19	S. W. Roe, St. Paul, Neb.	31.00
21	Jas. Petska, Elyria, Neb.	37.50
22	E. C. Helbig, North Loup, Neb.	35.00
36	Peter Geersen, Palmer, Neb.	33.00
40	E. V. Waugh, Greeley Center Neb.	39.00
42	C. H. Stude, North Loup, Neb.	30.00
43	H. Klima, Comstock, Neb.	30.00
50	R. E. Gundy, Albion, Neb.	30.00

SOWS

3	R. E. Gundy, Albion, Neb.	62.00
7	E. V. Waugh, Greeley Center, Neb.	45.00
30	Lee Martin, Dannebrog, Neb.	30.50
31	Lee Martin	30.50
32	Lee Martin	30.50
33	Lee Martin	30.50
34	Lee Martin	30.50
35	Lee Martin	30.50
47	R. B. Reynolds, St. Paul, Neb.	35.00

The average on the entire offering was $33.14, forty-eight head.

Seckington & Hilfiker's Poland China Sale.

Seckington & Hilfiker, North English, Iowa, made a good sale of Poland Chinas on October 23d. U. S. Chasey topped the sale on No. 32 at $48. W. J. Hanson was a liberal buyer of the better sort. W. H. Cooper and C. C. Evans sold the offering. A list of those selling above thirty dollars is appended:

2.	J. Hickman, No. English, Ia.	$35
3.	J. Hickman	35
4.	Mike Wilkins, No. English, Ia.	31
5.	W. J. Hanson, Holbrook, Ia.	33
6.	J. Hickman	36
7.	J. Hickman	36
8.	J. Hickman	36
9.	J. Hickman	36
10.	Mike Wilkins	30
12.	Elmer Swails, Webster, Iowa.	41
14.	Frank Greenley, No. English, Ia.	36
15.	U. S. Chasey, Hedrick, Ia.	41
17.	Mike Wilkins	31
18.	Mike Wilkins	30
19.	W. J. Hanson	36
21.	Pat. Kelley, No. English	33
22.	Mike Wilkins	31
25.	F. J. Thomas, Fairfax, Ia.	33
26.	H. R. Collingwood, Williamsburg, Ia.	30
27.	W. H. Sanker, No. English, Ia.	32
29.	G. Welch, No. English, Ia.	45
31.	Carl Geiger, No. English, Ia.	40
32.	U. S. Chasey	48
33.	G. H. Brandt, Van Horn, Ia.	35
34.	Chas. Hardin, No. English, Ia.	51
35.	J. Hickman	33
36.	J. Hickman	33
37.	Pat Murphy, Kinross, Ia.	40
38.	Jos. Trubar, Conroy, Ia.	41
39.	W. J. Hanson	40
40.	W. J. Hanson	45
41.	W. J. Hanson	35
42.	W. J. Hanson	35
43.	Chas. Hardin	39
44.	H. R. Collingwood	31

Branson's Duroc Sale.

H. I. Branson, West Branch, Iowa, held a sale of Duroc Jerseys at his farm on October 15th. The offering was in nice condition and the sale was satisfactory to the seller. Buyers secured good values. Mr. Branson conducted the sale in a straightforward manner and made many friends by so doing. Large Wonder, a yearling boar, topped the sale at $47, selling to W. Worling, Tipton, Iowa. Colonel Gibson sold the offering. A list of those selling at $30 and above is appended:

Large Wonder, W. Worling, Tipton, Iowa		$47.00
1.	E. Hurst, West Branch, Ia.	30.00
2.	Mike Trier, Keota, Iowa	34.00
3.	U. S. Blough, Waterloo, Ia.	33.50
4.	G. L. Agne, Tipton, Iowa	37.50
20.	Wm. Erb, West Branch, Ia.	38.00
23.	A. M. Delmas, Buffalo, Iowa	37.00
41.	A. H. Gloyd & Son, Faribault, Minn.	30.00
44.	John Willar, Tipton, Iowa.	46.00
45.	Frank Klinsky, Mt. Vernon, Iowa	32.00
49.	John Foster, West Liberty, Iowa	40.00
50.	C. D. Brown, Lisbon, Iowa.	40.00
50 head	$1,316; average	$26.30

Mr. John McCarthy, writing in a Denver paper, states that after making thorough local inquiries in Argentina and Brazil, he has come to the conclusion that the placing of cattle and meat on the free list in the American tariff would not affect the price of beef in the United States. His reasons are mainly that Argentina has a full demand in Europe for the whole of her surplus, and that Brazil is not yet self-supporting in meat production, and is not likely to be an exporter in the near future, as her pastures do not fatten cattle, and various diseases are rife among her herds, which, moreover, are not of the quality suitable for the American market. He does not appear to take the resources of Australasia, Canada and Mexico into account.—[London Live Stock Journal.

In a recent talk on the cattle situation the president of the Armour Packing Co. said: "High prices are due to the shortage of beef. The remedy lies with the public. If every one should stop eating veal two years and not slaughter any cattle under two years of age our supply would soon get back somewhere toward the normal, and soon thereafter prices would drop."

A farmers' purchasing agency has been established in Milwaukee with the title "Consumers' Co-operative Co." "A Farmers' Purchasing Agency." The manager, F. T. Terry, has always lived in Milwaukee and has been in active business there for 30 years. They are sending catalogs free to all who ask.—Adv.

LANDS AND HOMES

ALBERTA

The Price of Beef is High and so is the Price of Cattle.

For years the Province of **ALBERTA**, (Western Canada), was the Big Ranching Country. Many of these ranches today are immense grain fields, and the cattle have given place to the cultivation of wheat, oats, barley and flax, the change has made many thousands of Americans settled on these plains, wealthy, but has increased the price of live stock. There is splendid opportunity now to get a **FREE HOMESTEAD OF 160 ACRES** (and another as a pre-emption) in the newer districts and produce either cattle or grain. The crops are always good, the climate is excellent, schools and churches are convenient and markets splendid in Manitoba, Saskatchewan or Alberta.

Send at once for literature, the latest information, railway rates, etc., to

Frank H. Hewitt
Des Moines, Iowa
W. V. Bennett
Room 4, Bee Building, Omaha, Neb.
R. A. Garrett
315 Jackson St. St., Paul, Minn.

or write Superintendent of Immigration, Ottawa, Canada.

Carey Act Land Opening

Beginning August 7, 1913. 3,600 acres in Bear River Valley, Utah. Low price, easy terms and long time. Also 9,000 acres of deeded land in the Neponset Tract to be sold at low prices, easy terms, long time.

Write for complete information. Summer Tourist fares 1st class daily to, and including, Sept. 30, 1913, and Homeseekers' fares (second class) 1st and 3d Tuesdays of each month.

R. A. SMITH,

Colonization & Industrial Agent, Union Pacific Railroad Co., Room 1186, Union Pacific Bldg., **Omaha, Nebraska.**

MUST sell! 160 a., clay soil, good bldgs., Walworth Co., Wis., $5,000, $3,000 cash. 140 a., 100 cult., sandy loam, good bldgs., near town, Cen. Wis., $4,500. Both 25% below value. E. G. Fuller, owner, Brillion, Wis.

FLORIDA LAND—In the highlands of West Florida. near Pensacola. Fine soil, climate, markets, etc. Low price. Wiest, 823 State Life, Indianapolis, Ind.

SETTLERS wanted for clover lands in central Minnesota. Corn successfully raised. Write Asher Murray, Wadena, Minnesota.

SALE AND RENT good improved farms, Southwestern Minnesota. Close to Iowa. Address Owner, Box 284, Mapleton, Minn.

ALL KINDS OF FARMS FOR all kinds of people. Free Catalogues. Hall's Farm Agency, Owego, Tioga County, New York.

For Sale To settle an estate, 160 acre farm in Dodge county, Minnesota. Address Joseph Chase, Exr., Toulon, Illinois.

Want to Buy Good Farm From owner only. Give Price and Description. Nissen, Box 754, Chicago.

Why Rent Farm Land —You Can Do Better

Stop renting—you don't get ahead that way. The other fellow gets too much of the profit. I can tell you how to get a farm of your own and start it right with very little money. Government land, small cost and payments so easy that they won't bother you.

The C. B. & Q., Railroad pays me to help you get a farm without much money, and I want you to write so I can tell you about it. Do it TODAY. D. Clem Deaver, Burlington Route, Room 371 Q Bldg., Omaha, Neb.

STATE LAND SALE IN NEW MEXICO

ON December 8th, 1913, there will be sold at the court house in Deming, New Mexico, **18,000** acres of land. Practically all the land will be sold in tracts of six hundred forty acres. The land is in what is known as the shallow water belt, and irrigation by pumping is being operated successfully on lands in that vicinity. The terms of sale are cash, or ten per cent of the highest bid, the balance divided into thirty equal annual payments, with four per cent interest on all deferred payments. **Robert P. Ervien, Commissioner of Public Lands, Santa Fe, N. Mex.**

For Sale or Exchange

320 ACRES of fine land 3½ miles south of Ipswich, South Dakota, 26 miles west of Aberdeen, S. D. All fenced and under cultivation; artesian well and good buildings. Will sell at a reasonable price or exchange for farm near Des Moines. This will make a fine dairy or grain and stock farm for some man with several boys who own small farm near Des Moines and wants to get a larger farm. O. H. Longwell, owner, 3700 3d St., Des Moines, Ia.

BUY A MINNESOTA FARM

ONLY $1.00 PER ACRE DOWN

$1.50 MORE in a year, balance 10 years' time at 5 per cent. Price from $7.00 to $15.00. Good land well located. Absolutely the best land and best terms on the market at the price. A great opportunity for either investor or actual settler. Don't rent, own a farm of your own. Write for particulars.
C. L. BEEBE, MANNING, IOWA.

FOR SALE---Montana Land

IN THE FAMOUS GALLATIN VALLEY

1120 ACRES, three miles from town on two railroads; 750 acres in cultivation; decreed water rights; improvements cost over $30,000.00. An ideal proposition for stock or dairy farming. Attractive terms and prices. For full information, address **H. H. KEYES, HELENA, MONTANA**

WISCONSIN

LAND Seekers' Rates October 21st, November 4th, November 18th. Arrange early with your railroad agent for tickets. See the Marshfield District on this trip—Country of BLUE GRASS, CLOVER and the BIG RED BARNS. Let us show you **FARMS THAT ARE FARMS.**
COLE'S LAND AGENCY, Marshfield, Wis.

N. Y. STATE FARMS FOR SALE

TWO dairy farms, Cen. N. Y. state. Accomodations 30 cows each. Milk sold at door. Near several railroad towns. Best water, healthful climate, timber, sugar maples. Best farms in locality. Prices less than cost of B'ldgs. Gilbert Youmans, Harpursville, N.Y.

MINNESOTA, greatest dairy state in Union. Millions acres wild land in best dairy section of state can be bought cheap; long time; easy terms. State school lands, free homestead lands, improved farms. Maps and literature sent free. Fred D. Sherman, Commissioner of Immigration, Room, 208 State Capital, St. Paul, Minn.

CENTRAL MINNESOTA

CASS, Todd and Morrison counties, best place for corn, cattle and clover. Good clay loam soil, very fertile. Lies fine. Pure water.—Healthy climate. Price $10.00 to $30.00 per acre. Easy terms. Write for list of bargains. Address
Chase Brothers, Box F, Motley, Minnesota.

Best Bargain in Kansas

356 ACRES, 5 miles from Emporia, all best river bottom, 250 acres fine alfalfa, balance corn, some timber, fine buildings. Owner sold over $12,000 off this place this year. Old age is only reason for selling. Price $125 per acre. Write for our list of alfalfa lands and ranches. Willis & Co., Emporia, Kan.

FOR SALE

STOCK and dairy farm, silo, etc., furnace and bath room in house, modern and complete, 180 acres, one mile from city of Albert Lea, Minn., 7,000 inhabitants, 12 miles from Iowa line, 5 railroads. Owner has moved away. Bargain. Come and see it.
LOREN G. BLACKMER, Water St., ALBERT LEA, MINN.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

FINE dairy and grain farm with excellent water, good buildings, fine sugar bush, orchard and soil; rural delivery; centralized high school, church, store, 1½ miles; mill, 2; R. R. 5 miles; 50 miles Cleveland; 100 miles Pittsburgh; 137 acres, $40 per acre; discount for cash. E. E. Sanders, Geneva, Ohio.

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

IOWA FARMS---Write today for our Special Farm Bargain List. Farms of all sizes for sale, and the cheapest **good** land in Iowa. **SEE** these before buying; we can suit you.
E. E. McCALL - - WINTERSET, IOWA

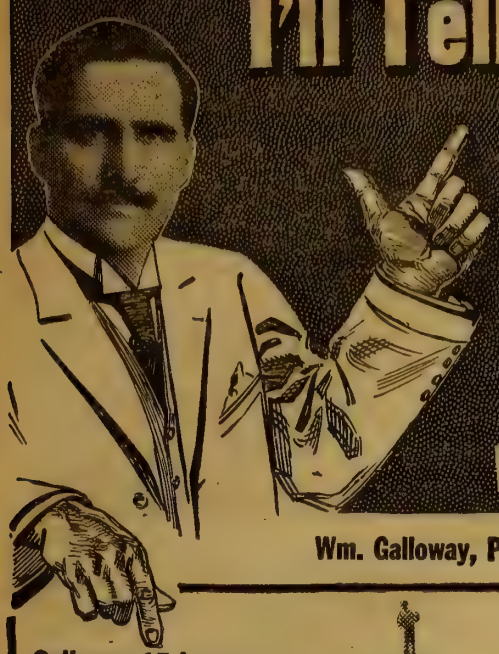
Farm For Sale We have for sale three good farms which we believe are the best bargains in Weld county, Colorado, that must be sold. Write for description. Farmers National Bank, Ault, Colorado.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

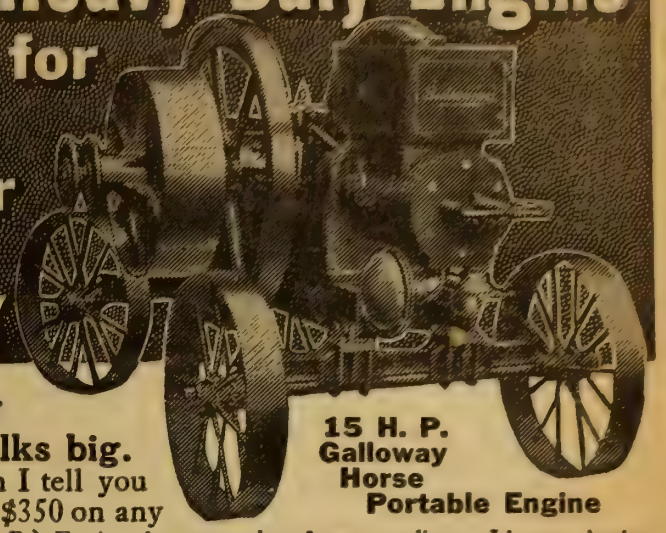
I'll Tell You How to Save $250-$350 On a Galloway Heavy Duty Engine

7½—10—15 H. P. for Running Any of Your Large Power Machines

Write Me Today!



Wm. Galloway, Pres.



15 H. P. Galloway Horse Portable Engine

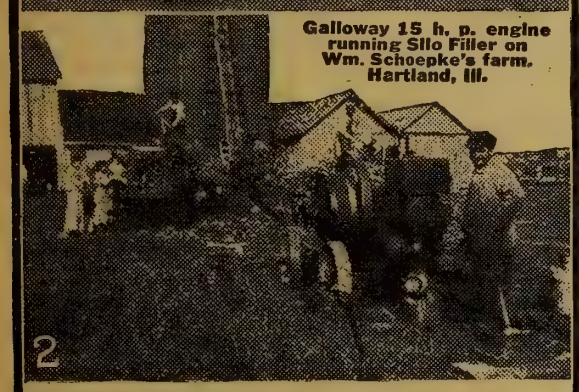
That's talking big **money but real money talks big.** I'll back up every statement when I tell you that you can actually save $250 to $350 on any Galloway Heavy Duty (7½—10—15 H. P.) Engine that you select from my line. It's an absolute fact and I can prove it to you in a flash when you get my offer.

Take my 15 H. P. Portable shown in the picture. **I sell it for half what you'd have to pay for a trust-made engine of the same power.** I said I'd prove your saving on any engine. All right, just drop me a line and I'll send you my big, illustrated engine catalog and Special 90 Day Price Offer. If anybody else wants to sell you an engine, **show him my prices and dare him to meet them.** I positively know that there isn't a single manufacturer in America who can meet my prices without losing money. My tremendous output and the direct selling plan that I have built up, make my low prices possible. When you buy a Galloway you pay just the bare cost of material and labor with only one small manufacturer's profit added. Compare that plan, backed by years of proved success, with the Trust way of adding four to six profits and you see how easy it is for me to save you $250 to $350 on your engine or your complete outfit. Now, I just want you to **investigate,** that's all. It's money in **your** pocket—**big** money. Write me a postal or a letter for my big engine catalog today. Remember, these engines are made in sizes from 1¾ H. P. to 15 H. P., either stationary or mounted, and are

Sold Direct from My Factory to Your Farm

All Galloway Engines are made right in our own big chain of factories at Waterloo. There are no better made engines on the market. Galloway Engines are easy to start. Will run without attention as long as you want them to. Use less fuel per horsepower than any other engines on the market. They are proved engines. Over 30,000 in use today and all sold with the privilege of testing them 30 days on your own farm before you decide to keep them, backed by a five year warranty on materials and $25,000 legal bond. Every user of a Galloway Engine is a booster for them. That's why we sell more of them than any other concern in the world selling engines direct to the user. Isn't that proof enough that it pays to buy the Galloway and save from $250 to $350.

Galloway 15 h. p. engine running silo filler on Edwin Carlson's farm, Winthrop, Minn.



Galloway 15 h. p. engine running Silo Filler on Wm. Schoepke's farm, Hartland, Ill.

Get a Complete Galloway Silo Filling Outfit and Save Big Money

Remember, I can sell you complete Silo Filling Outfit, Shredder, Big Corn Sheller, Irrigation Pumping Outfit, Corn and Grain Elevator and Dump, and many other big combination outfits—all at money-saving prices. Just write me and tell me what you want and let me quote you the lowest prices ever made on these outfits. Write me without fail today for my complete Silo Filling Outfit. Hundreds in use and all giving complete satisfaction.

Free Service Department

My free Service Department, composed of the best engine experts, will give you all the information you want for the proper installation and use of your engine. They will tell you the best size engine to buy for handling your different machines, size pulleys, etc., and how to equip your engine for doing the best possible work This service costs you nothing, but is worth a great deal to you.

Here's the Real Proof

I just want you to look at these five illustrations here, showing 15 H. P. Galloway Engines at work in different sections of the country, running ensilage cutters and threshing machines. These are only a few of the many views of Galloway Engines at work running different machines, which we have on file. My big Engine Book shows a lot more. Sent FREE.

View No. 1 shows 15 H. P. Galloway Engine filling silo on Edwin Carlson's farm at Winthrop, Minn. Notice how smooth the engine is running in picture and without any attention. No. 2 shows a 15 H. P. Engine running a 20 inch cutter filling 16x32 silo on farm of Wm. Schoepke, Hartland, Ill. Mr. Schoepke said it took them only twelve hours, refilling and all, and that he filled four silos last fall. He paid for his engine the first year doing work for his neighbors at $10 to $15 a day. Good money to be made with a Galloway Heavy Duty Engine everywhere.

View No. 3 shows a complete Galloway Silo Filling Outfit on Mr. Galloway's own farm at Waterloo filling two twin hollow-block silos, each 50 feet high. How's that for silo filling? The pipe is 54 feet long. No. 4 shows Galloway 10 H.P. Engine running threshing machine on Walter J. Anderson's farm, Newman Grove, Neb. Mr. Anderson says, "I put it to hard work and it did fine. I had two other kinds but yours beat them." No. 5 shows a 15 H. P. Galloway Engine running threshing machine on W. H. Stuckmeier's farm near Waverly, Iowa.

Write for Catalog and Prices Today

Write me first. Get my 90 day special prices before you buy any other style or make of engine. It will be the best investment you ever made. I am selling more Heavy Duty Engines than ever before in the history of this big business because the men who have bought and used Galloway Engines are helping me sell them. Galloway Engines are their own best advertisement.

Remember, if you want a small pumping engine, or medium sized engine, I can supply you at a big saving. We make all sizes from 1¾ to 15 H.P. New Pumping Engine Catalog just out. Let me send you a FREE copy.

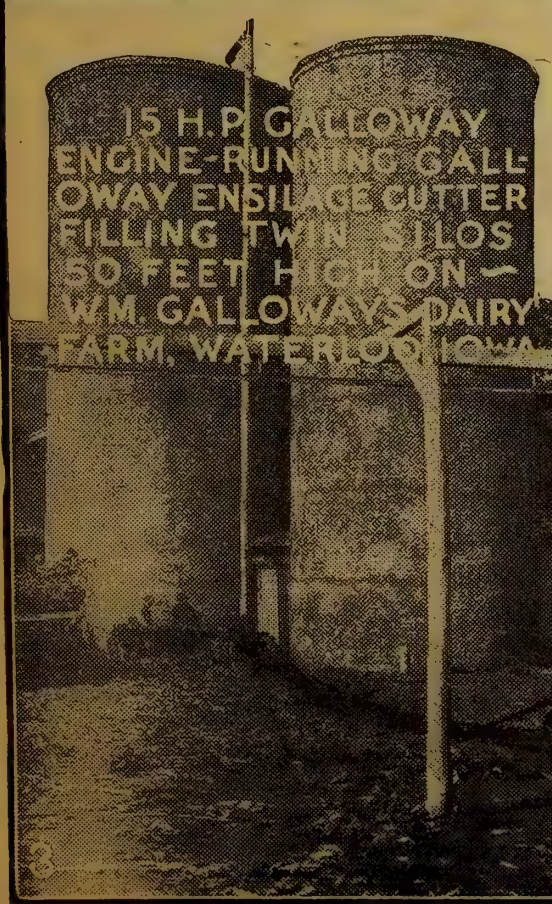
Get My Special 1913 Offer

Then as a clincher I am making the most liberal 1913 Co-Operative Profit Sharing Offer I have ever made, which is a tremendous, big inducement for you to buy the Galloway. It will actually help you get your engine partly or entirely without cost to you in the end.

Just mail me a postal or letter for my big illustrated engine catalog and I will give you all particulars of this special offer by return mail. Write me today. Do it before you lay this paper down. Address

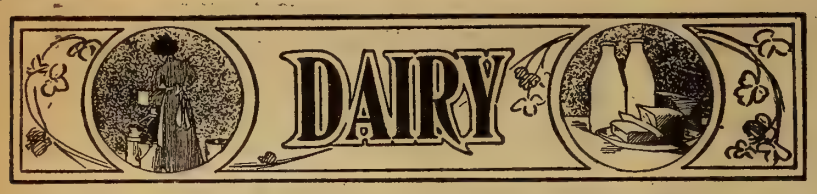
Wm. Galloway, President, WM. GALLOWAY COMPANY

15 Galloway Station 555 **WATERLOO, IOWA**



Galloway 10 h. p. Engine Running Threshing Machine on W. J. Anderson's Farm, Newman Grove, Nebr.

Galloway 15 h. p. Engine Running Thresher on W. H. Stuckmeier's Farm, Waverly, Iowa



COW-TESTING ASSOCIATIONS.

To the Editor of The Homestead:

Cow-testing associations are organized and conducted for the purpose of securing accurate records on the individual cows in each herd of the members. The records show the production of each cow for the year in pounds of milk and butter fat, and the market value upon whatever basis the product is sold. The cost of the feed eaten during the year is estimated. Thus, as in the primary object of the work, each cow is put on a strict basis of profit and loss.

The result of cow-testing work is increased production. This is brought about through the weeding out of the inferior cows and the breeding of young stock from the profitable producers. Incidentally it gives to a dairyman, as nothing else can, an exact and business-like basis upon which to do consistent constructive breeding. After he has secured a detailed record of his cows for one year or more he is able to think of his cows in terms of pounds of milk or pounds of butter fat per annum. Then he will seek for a bull whose pedigree shows a higher production. Through the use of a bull so bred he can reasonably expect increased production.

The organization of a cow-testing association is comparatively simple when once sentiment is aroused to the necessity and value of the work. It is essential that a number of herds containing a sufficient number of cows be entered to make the work self-supporting with some nominal entrance fee per cow. Usually the smaller associations contain about 400 cows, the larger 600 or more. The cost ranges from $1 to $1.50 per cow per annum.

As a preliminary it is most satisfactory that a canvass be made amongst the dairymen of a community. This should be made by parties who are familiar with the workings of a cow-testing association and who are enthusiastic over the proposition. When men are met personally they are more open and free to ask questions. Each one sees different aspects and the personal interview gives opportunity to clear up those special difficulties as they cannot be done in a public meeting. In organizing an association at Wellsville, Utah, recently the writer spent four days in preliminary canvass. About one-half the dairymen of the locality were interviewed. Then a public meeting was held. After the final organization was effected the membership showed that a far larger percentage of men had signed contract amongst those having been seen before the meeting than of those who had their first explanation at the meeting.

As soon as a sufficient number of members has been secured a meeting for organization may be called. It is necessary to have contracts signed. If those who do the preliminary canvassing are men representing the state or any official capacity, or are men appointed by some temporary organization for that purpose, the signatures may be secured at that time. Otherwise they may be signed at the time of organization. A board of directors is appointed which has control over the workings of the association.

One of the chief duties of the board of directors is to hire a man to work as tester for the association. It is important that they secure a competent man for this position. Much of the success, or failure depends upon him. He should be a man who has had some training in an agricultural school, and also with some practical experience. Above all he must have common sense and be tactful. The salary to be paid the tester is usually governed by the amount of money to be raised by the payments of the annual assessments. Thus some associations with 400 cows entered at a rate of $1.25 per cow has $500 available to pay salary and operating expenses. In such cases the man cannot be paid more than $40 per month and board. An association with 600 cows entered at $1.50 can pay a man $70 per month and have a sufficient amount left for running expenses.

The computing of the records is even more likely to be neglected by a dairyman than is the testing. It being a part of the tester's duty to keep the records complete, he makes each one out according to a regular system and does it in a fraction of the time it could be done by one unaccustomed to the work. Thus it is done more satisfactorily from every standpoint and is done more cheaply when value of man's time is considered.

Cow-testing association work leads distinctly to increased production. In Denmark where it originated the average production of all cows in the country was doubled in the thirteen years between 1895 and 1908. From one association in 1895 there are now 800 in Denmark and as many in Sweden and increasing numbers in other countries.

Following is the butter fat as reported for a single herd that had been in a Swedish testing association for seven years:

Average Production	Butter Fat.
1st year	223 lbs.
2d "	247 "
3d "	288 "
4th "	318 "
5th "	341 "
6th "	362 "
7th "	364 "
Total increase	141

The writer has taken liberty to do some independent figuring and to draw some independent conclusions from the above figures. He found that the average total increase in pounds of butter fat per cow in the six years amounts to 582 pounds; with a market value at the very low price of thirty cents per pound—$174.60. This increase at $1.50 per cow per year would have cost $10.50. It shows surprisingly the big increase that comes from systematic record keeping and the practical culling and breeding that a man is able to do when he has the accurate data at hand.

Along with the increased yield always comes reduction in the cost of production. In the herd from which the above figures were quoted the same amount of feed gave more than 30 per cent greater yield after six years of testing. In another Swedish herd in ten years the production of butter fat was increased from 236 pounds per annum to 345. At the same time the amount of butter fat in proportion to feed eaten increased more than 38 per cent. In other reports it is shown that the cost of producing a pound of butter fat is reduced from twenty to eighteen cents per pound.

The incidental advantages of cow-testing associations must not be overlooked. The weighing of the milk enables a man to feed his cows grain in proportion to the amount of milk they are giving. In the association with which the writer has to do he advocates the feeding of one pound of grain with each four pounds of milk produced, in case the hay is first quality alfalfa. If the hay is of any other kind one pound of grain to three of milk is advised. This is the most economical method of feeding. No doubt a sufficient amount will be saved on the feed bill to pay the entire expense of testing.

Co-operative cow-testing leads to co-operative bull buying and to co-operative buying of equipment and co-operative selling on the retail market. It makes a district popular as a center for good dairying. It increases the selling value of cows in the herd. Grade cows with good yearly records are selling for $25 or more per head above the prices received for similar cows without records. All considered, the formation and continued operation of co-operative cow-testing work is the greatest step in advance American dairymen and farmers can take.

H. E. McCartney.

THE WINTER CALF.

To the Editor of The Homestead:

Every scheme of dairy farming which is expected to be profitable must provide the calves with such care as will keep them in a good, thrifty condition, so that a steady growth may be maintained. This need is very important, alike, in both beef and dairy breeds, as we have all found that it is the well-cared-for yearling that brings not only the top price per pound, but also costs less to produce each additional pound, than the older, ill-cared-for and starved animal of the same weight.

With the calf which is intended for the dairy, the profits are the same. The calf that has been well fed and cared for during her calfhood can be depended upon to keep up the record of her dam, more than the one that has been ill-treated and allowed to "rough it" through. With these facts in mind it is prudent to look after the young calves and see that their surroundings are sanitary to the extent that will promote health.

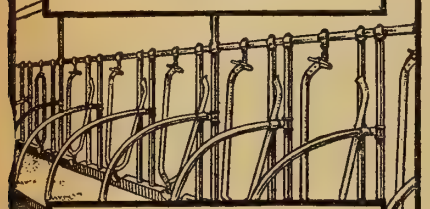
Winter dairying is held in favor by some men who are on to their job, because they can give the calves better attention. Such dairymen give their calves well-lighted, and well-ventilated stalls and these are kept as clean and have as much care as the stalls of the older cattle. Plenty of warm bedding is furnished, and if there is any suspicion of foul odor,

Less Labor-More Milk

YOU CAN CARE FOR A HUNDRED COWS WITH
LOUDEN DAIRY BARN EQUIPMENTS
EASIER THAN A DOZEN WITHOUT THEM.

Your cows will give enough extra milk to pay for the equipments in a few months. On one of the biggest dairy farms in the world this increase was 21%.

Louden's STALLS and STANCHIONS are sanitary, simple, strong and handsome. Keep the cows comfortable, healthy and contented so they will do their best.



Used by the U. S. Government and by more big, successful dairy farmers and breeders than any other. Low in price and permanent. Remember: these are the only really sanitary stalls. GUARANTEED to possess more advantages than any others. *See them at your dealer's or write us for catalog and full information.*

Write for our **FREE PLANS SERVICE** for your new barn, or for remodeling your old one. State how many head and what kind of stock you wish to stable. *Complete catalog Free. Write today.*

Louden Machinery Co.,
196 West Broadway, FAIRFIELD, IOWA.

150 Tuberculin Tested Holstein-Friesians at Public Sale Nov. 17-18.

Cows with official records up to 600 pounds in one year in calf to sires from 30 to 35 pound dams. Heifers, sisters to cows with records of from 25 to 35 pounds. Bulls, from 20 to 35 pound dams. Every buyer treated square. Sale in a warm pavilion. Comfort assured.

Write for Catalog.

IOWA HOLSTEIN-FRIESIAN SALE CO. - WATERLOO IOWA
Perry & Mack, Auctioneers.

HOLSTEIN-FRIESIAN CATTLE.

HIGH-GRADE HOLSTEIN COWS AND HEIFERS

I AM offering a splendid lot of high grade cows and heifers for sale, all bred to noted bulls and fresh soon. These are from two to five years old. Write at once or come and see me. Address
C. E. VEAK - - - - - - ESSEX, IOWA.

65 HEAD REGISTERED HOLSTEIN-FRIESIAN COWS AND HEIFERS

I AM offering a splendid lot of cows and heifers for sale, due to calve in the fall to a son of King of the Pontiacs, or Sir Pontiac Ragapple Korndyke. Will make prices to suit for next sixty days. Also a few bulls of serviceable age for sale. Address ROCK BROOK FARM, Station B., OMAHA, NEB.

Pure-bred Registered
HOLSTEIN CATTLE

To promote general prosperity and their own business, bankers in many parts of the country are buying pure-bred Holsteins by the car load and selling them on time to the farmers of the community.

Every year it becomes clearer that with large yield cows the cost of milk and butter production can be brought down to a point that makes dairying profitable.

A herd of pure-bred Holsteins is an investment that combines safety with large dividends.

Send for FREE Illustrated Descriptive Booklets
Holstein-Friesian Association
F. L. Houghton, Sec'y, Box 113, Brattleboro, Vt

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

HOLSTEIN COWS, HEIFERS, BULLS

250 HEAD in herd. Some very choice young bull calves. Write us; let us send you our bull calf price list. Tell us what you want in females. We will be pleased to quote bedrock prices for reliable, dependable cows and heifers that will give from 8,000 to 12,000 lbs. milk per year. All stock registered; no grades.
WOODLAWN FARM - STERLING, ILL.

HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

BRED FOR PRODUCTION HOLSTEINS
Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

JERSEY CATTLE

Buy Jerseys

Dollar for dollar invested, the Jersey will earn back the amount paid for her quicker than other breeds because her product brings a higher price per quart or per pound. For the home she is unsurpassed, and her low cost of keep makes her most desirable. Write now for Jersey facts. No charge.

AMERICAN JERSEY CATTLE CLUB
324 W. 23d St., New York

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

a light coat of lime is scattered over the floor before fresh bedding is applied.

To give the calf the best possible chance, it is well to have a pen or yard attached to the stall on the sunny side, but sheltered from the west and north winds, where the young calf can take exercise. In this yard a drinking trough should be placed; also a manger in which to feed hay or other forage, which they will partake of as wanted through the day.

The milk that is fed the young calf, should be as near the temperature that it is drawn from the cow as possibe, and it may be necessary to warm it slightly after it has been separated. The vessels in which it partakes its feed should be kept clean and sanitary by frequent scaldings and sunnings. There is little danger of diarrhea, which is so anoying and often fatal to the young calf, if cleanliness and the right temperature of milk are strictly attended to, and the calf receives its meals regularly.

If a case of diarrhea, caused from neglect, is taken in time, it can usually be cured. In addition to their feed, give one or two tablespoonfuls of castor oil in a pint of warm milk each night and morning. A half pint of strong tea made from spice cloves with the same amount of milk will also have a checking influence on the bowels.

Some make a feed of gruel made of meal to mix with the milk. I do not think this advisable, as it seldom fails to give the scours. Dry, coarse meal is much better for the calf than the wet, sloppy feeds. When fed dry feed, the calf is compelled to chew it and mix it more thoroughly with the saliva, and thus prepare it for complete digestion.

There is little trouble in teaching the young calf to eat dry feed. If a little meal is placed on its tongue, or placed in its drinking trough, its natural instinct to eat what is within its reach will assert itself, and it will soon be chewing its food well.

Subscriber.

GREEN-CUT BONE IN THE WINTER RATION.

To the Editor of The Homestead:

At this season the principal object of the poultryman in caring for his flock of fowls is to get lots of eggs from the hens. In order to accomplish this object he must have, first of all, good, young laying pullets, or hens not over two years old. Then good, warm buildings must be provided for the fowls and they must be fed right.

The problem of feeding laying hens in winter is a big one. Briefly, it may be said that the hens should be provided with the different kinds of food or their equivalent that they secure on the range during the warm season. At that season nearly all flocks of poultry at liberty, whether the fowls receive much attention or not, produce eggs in an abundance because they are getting a ration best suited to the production of eggs. That ration is composed of grains and seeds, green vegetation and insects and worms. The insects and worms make up no small portion of the hens' summer ration because the fowls seem to prefer these above all other ingredients of their ration. Early and late, they are digging and scratching and searching over the yards for the bugs and worms; they will leave any other tempting food to chase after an insect or to snatch a worm. Apparently, they never get enough animal food to satisfy their wants. That the fowls need animal food and are fond of it, can be proved in another way. When throwing out the table scraps, throw down a handful of grain at the same time; it will be noticed that the meat portion of the table scraps is always eaten first.

Of course, there is no single egg-producing food that can be fed with profit exclusively. A variety of food that will furnish all the elements entering into the composition of the egg—protein, fat, water and ash—gives the best results at all seasons of the year. Foods that will supply protein and fat are particularly essential. These elements are found in a greater or less degree in the grains and vegetable foods, but there is one food that is especially rich in protein and fat, besides containing the other elements that enter into the composition of the egg. This food is cut green bone, which the hens take to eagerly on account of its animal nature.

Fresh green bone, not bone that has been baked or allowed to lie out in weather and sun bleach, when it becomes practically worthless, should be used. Many poultrymen char their meat bones on a bed of coals, after which the bones can be broken up fine and the birds will eat the material readily. But the heating process takes from the bones their most valuable constituents, the nitrogenous compounds. For this reason all bones should be utilized without charring by running them through a bone cutter. The poultryman caring for several hundred hens can profitably use a gasoline engine of small power to run the bone cutter. Dry bones are too hard to cut in a bone cutter; they have to be ground in a mill, which means that the poultryman must have two machines if he uses such bones. Green bone cannot be ground on account of its toughness; it has to be cut.

There is no comparison between green-cut bone and dry-ground bone as a food for poultry. When bones have become dry they have lost much of their nutritious matter and contain only mineral elements, principally lime and magnesia. Green bone contains those mineral elements together with the bone serum, marrow, cartilage and bone covering, all animal elements, in extract form, so to speak, and it also has the advantage of having a certain per cent of meat adhering which the butcher's knife cannot get and this makes it more valuable. Otherwise, bones of different animals do not vary greatly in food value.

A little experience will enable one to pick out the best bones and the ones that are the easiest to cut. They cut easier when frozen, and boiled bones are easier to cut than if fried or baked. Shin bones are so hard to cut that they are apt to chip the knives of the cutter.

Green bone should be fed in winter only. It spoils too quickly in warm weather, and then, too, in summer the hens can find insects to take its place. One ounce of green bone per day for each hen is the prescribed ration. Though a little more will probably do no harm, it is a good plan to go slow on it, as it is very rich and, being readily assimilated, it is stimulating to the fowls. Active fowls can safely eat more of it than the sluggish ones can, as much more will naturally be consumed in the building up of the tissues and organs of the body. Beginning with a little at first, the amount may be gradually increased until the hens are getting the required amount daily. At first, it should be fed only every other day. Green bone may be fed clear, or if desired, it can be mixed with a bran mash or other food.

When its value as a food is taken into consideration, green bone is one of the cheapest chicken foods that can be used in winter. In connection with green bone, foods rich in carbonaceous elements should be fed to supply heat and energy during cold weather.

Subscriber.

TREATMENT FOR HOG CHOLERA, CONTAGIOUS PNEUMONIA AND TYPHUS FEVER.

(Continued from page 3.)

to be a common carrier for the other two. The pneumonia seems to be a secondary infection, as is also the case with typhus fever. The mortality seems to be very small from the other two when cholera is controlled. I will give a few examples where vaccination was used on herds containing these complications.

Herd No. 1 contained about 100 head of shotes averaging about fifty pounds in weight. Twelve pigs had died and about the same number were sick when vaccinated. After this about twenty-five died, but the balance are all healthy and doing fine. The symptoms were of penumonia and cholera.

Herd No. 2 was made up of about seventy-five head, mostly shotes, from which ten pigs had died and about a dozen sows and pigs were sick. In this herd the serum supply was exhausted and seven old sows were left without vaccination until more serum could be secured. These sows all died and also about twenty pigs. The balance are healthy. Symptoms the same as Herd No. 1.

Herd No. 3, containing about ninety head of young pigs and twenty-two old sows, had lost six of the young pigs, but none of the sows. After vaccination about twenty of the young pigs died, but the sows all survived. Same symptoms.

Herd No. 4 contained forty-six head of healthy young pigs which were vaccinated along in June, at which time there were no sick hogs in the country, to speak of. Twenty of these pigs died this fall showing marked pneumonic lesions. The neighbors on both sides of this man lost every hog on the place. They did not vaccinate.

These cases are merely average results obtained and go to show what can be accomplished by the use of vaccination in fighting these diseases and they should be sufficient to prove that with the cholera stamped out there is a lesser danger from its complications. If vaccination is properly performed with good serum it is absolutely the only chance of saving your hogs. Farmers who have had experience in vaccinating against cholera do not doubt its efficiency. The ones who are skeptical about it are the ones who are not posted or have been unfortunate in securing poor serum.

Every farmer should co-operate as much as possible to stamp out disease. Much of this can be done by simply using precautionary measures, such as being careful in purchasing new animals to place in the herd. Take into consideration the health of the herd from which you obtain your new stock, not only at the present time, but for a year back. Keep new animals separated for at least three weeks, so if anything turns up you do not have the whole herd infected. Remember that cholera and these diseases may be carried upon your shoes, so be careful about visiting other pens and also about others visiting yours. Avoid letting hogs have access to running water that drains adjacent territory. I know of several instances where infection has been transmitted to a healthy herd in this manner. Bury all dead hogs, as crows, etc., are liable to carry the disease.

Every farmer knows how contagious these diseases are and also what a high rate of mortality they carry, so try and do all that is possible to prevent them in your herd, using good, intelligent methods. Some may think that it does not pay, but wait until next spring and see what brood sows will bring to the man who has successfully fought against these diseases.

It is important that a brood sow should have good assimilative powers—that is, she should be a good feeder. Otherwise, the litter will be small and the sow will give but little milk. It is important that the sow should give a large quantity of milk, for unless young pigs get all the milk they need during the first five weeks of their life they are usually stunted in growth and require a long time and extra care for recovery.

Missouri ranks third in apple production, Illinois and Kansas standing first and second. But as Missouri has the most young apple trees the prospect is that it will be first within a few years.

The William Galloway Farm
AND BOTH HERDS OF
Holstein and Ayrshire Cattle
WILL BE SOLD ABSOLUTELY WITHOUT RESERVE ON
NOVEMBER 5 AND 6, 1913

THE farm itself of 180 acres and the modern dairy equipment upon it offers one of the greatest chances for big dairy or live stock profits in the corn belt. It is situated so that the markets of Chicago, Des Moines, Omaha, St. Paul and Minneapolis, just a few hours away, are ready to take the entire butter production, while Waterloo itself will take all the high class certified milk which can be produced at ten cents per quart. This is the best equipped dairy farm in the corn belt and the highest class proposition for a good, live dairyman anywhere in the West.

HOLSTEINS.

Among the cattle to be offered on sale day will be included King Segis Pontiac Combination 94710, a son of King Segis Pontiac 44444 and King Pontiac Girl 120834, whose sister, Spring Farm Pontiac Lass, holds the world's record of 44.153 pounds butter in seven days. This is the best bred young bull west of the Mississippi river today.

Also will be offered Fay Jewel Beauty 59866, grand champion Waterloo Dairy Show, 1912, grand champion National Dairy Show, Chicago, 1911; Daisy Mercedes Johanna Ormsby 78049, one of the best producing cows in the country, a 26.36-pound cow; and Daisy Mercedes Johanna Ormsby 2d 194972, a show heifer in every particular and said by eminent judges to be one of the finest produced last season. Lady Grace De Kol Johanna 67412 with a record of 20.46 pounds of butter in seven days, is a wonderful individual.

AYRSHIRES.

Among the Ayrshires will be offered Auchenbrain Good Gift 15487, one of the noted herd bulls, an imported animal of splendid conformation and most excellent breeding.

Among the cows will be Imported Howie's Ladylike 21432, said by Professor Kennedy to be an ideal type of Ayrshire dairy cow; Nona 2d of Avon 23090, a wonderful individual and a high-class show animal; Clemie of the Briers 33874, a cow now in a year's test for the A. R. O. (She milked about 70 pounds a day when fresh last January.)

Lady Hopeful's Pride 34428, and Dalpeddar Lady Taylor 30666, show cows of great merit, to say nothing of the blood of the prominent Milkman and other high-class Ayrshire strains.

Catalog ready. Remember the sale dates, and let nothing interfere with your being present as this stuff will go in its entirety, owing to my lack of time to give this wonderful farm and herds my personal attention.

There will be 20 head of Hampshire brood sows and early spring gilts, as well as the Hampshire herd boar, Rollen True. Our entire herd of show and breeding Durocs which we were just getting nicely started will also be offered, show gilts and sows and herd boars among these Durocs that will bring any breeder Duroc notoriety.

WILLIAM GALLOWAY - - - WATERLOO, IOWA

60 HOLSTEINS AT AUCTION 60
Will be sold at farm adjoining the village of
Walton, Nebraska, Tuesday, Nov. 11, '13
THESE ARE REGISTERED AND HIGH GRADE

FIFTY cows and heifers and ten bulls make up the offering. The females are the big, roomy kind that make good as producers. The bulls are suitable for good herds. Walton is 8 miles east of Lincoln and on the Mo. Pac. R. R. Transportation from Lincoln by auto for those that cannot make train connections. Col. Z. S. Branson, Auct. Write for fuller information. Address
T. A. GIERENS - - - - - WALTON, NEBRASKA.

GUERNSEY CATTLE.

DEXTER GUERNSEYS FARM
Kenosha, Wisconsin

GUERNSEY bull calves (unregistered) from 8 to 10 months old. All from high-producing dams. Sired by Imported Shamrock of Day.

GUERNSEYS
As you like them
Choicely Bred
Cows - Heifers - Bulls
All tuberculin tested and just as represented
It will pay you to ask about them
WALTER-WALWORTH-WIS

GRADE GUERNSEYS and HOLSTEINS
FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

FOR SALE Two Guernsey bulls, thirteen and four months old. M. T. Love, Garner, Iowa.

Make Hens Lay Best When Eggs Are Highest

Find Out How To Do It

FREE

Write us today to find how to make 1 Bushel Oats go as far as 3 Bushels of the best *green* egg food—how to secure early winter hatches—how to sprout grain in 24 hours in a

"Successful" Sectional Grain Sprouter

How to make winter hatched chicks grow faster, prevent loss, develop them for market earlier, make them lay quicker. *Get this Free Information at once—address*

Des Moines Incubator Co.
586-3rd St., Des Moines, Ia.

DOGS.

Scottish Terriers

THE best little rat, watch, pet and stay-at-home dog on earth. From puppies to grown ones for sale. When writing please state just what you want.
S. HARR - - - RIVERSIDE, IOWA

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collie should write us. Our stock is direct from the very best imported and of strains noted for their winnings and intelligence. Address A. A. Martin & Son, Route 4, Box 107, Lincoln, Nebraska.

SCOTCH COLLIE PUPPIES

HIGH-class puppies, the **best blood** in America, from registered sires and dams. Beauties, and everybody pleased with them. If you want a Collie get my prices before you buy. Mention Homestead.
T. A. STEVENSON, SHANNON CITY, IOWA

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

NOTICE MEN--- COLLIE and AIREDALE pups let out on shares. Some for sale. Circulars and price lists. No $5.00 ones. P. L. Savage, St. Charles, Illinois.

BRIGHT, intelligent Collie pups from trained stock, pedigrees, eligible to registry in A. K. C. Address Mrs. A. N. Bonnett, Birmingham, Iowa.

SCOTCH Collies—Bred females and young stock from imported and trained parents for sale. Also Airedale Terriers. Sunnyvale Kennels, Cumming, Ia.

SMOOTH FOX TERRIERS Best breeding, splendid individuals, great ratters. Special prices, Address N. R. Rogers, Peru, Nebraska.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

FULL BLOODED FOX TERRIERS for sale. 1 trained female 2 years old; one 7 months old pup, $5 each. Address W. S. Huber, Tipton, Iowa.

FOR SALE Full blooded Fox and Wolf Hound Pups, 8 months old. Address Henry Althoff, Lansing, Iowa.

WYANDOTTES.

R. C. W. Wyandottes. Will sell yearling ckls. and hens mated in pens of 1 cock, 8 hens, $8; 2 cocks, 25 hens, $20; ckls., $1. Carl Ehlers, R. 3, Gretna, Neb

PARTRIDGE Wyandottes, 50 fine cockerels and yearlings at prices from $1.50 up. Special prices on a few hens. Thos. L. Morlan, Indianola, Iowa.

FAHA'S Silver Wyandottes; great stock reduction sale now on; 200 young Silvers; bargain prices. Write wants. Frank Faha, Jr., Bx.620, Dyersville, Ia.

WHITE WYANDOTTES. Choice pullets and ckls. for sale. Geo. W. Livingston, Monroe, Ia.

BRAHMAS.

PURE BRED LIGHT BRAHMA COCKERELS for sale at $1.00 each. They are good ones. Mrs. J. M. Dries. Ashton, Ia.

MY HEAVY WEIGHT, Light Brahmas won 14 premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa,

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

ORPINGTONS.

SINGLE Comb White Orpington Hens and Pullets at attractive prices. Choice cockerels at $1 up. Mrs. Howard Niswander, Kinross, Iowa.

241 EGG strain. S.C. Buff Orp. World's champion layers. 100 choice early hatched ckls. Prices right. Circular free. W. L. Bardsley, Neola, Iowa.

75 S. C. B. Orpington hens $1 each. 100 ckls. $1.50 to $5 each. Good size and color. Mammoth Pekin ducks $1. Mrs. W. E. Zimmerman, R. 5, Neola, Ia.

PLYMOUTH ROCKS.

W. P. ROCK COCKERELS $1.50 each; W. R. pullets and hens $1.25 each. B. W. Eckels, Nevada, Iowa.

G. I. RING, Center Point, Ia., has for sale Plymouth Rock cockerels and pullets, White Leghorn cockerles, R. I. Reds and one Pheasant cockerel.

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

BE READY FOR THE PULLETS.

To the Editor of The Homestead:

On many farms pullets are just about to begin laying. It has come to be quite general to see that chicks are hatched early, so that eggs may be had for winter use or winter sales when the price is high. That is all right, so far as it goes.

But often adequate provision is not made for housing these young hens and they get in the notion of roosting about trees and other out-of-the-way places, and laying their eggs wherever it happens. The old houses may be so crowded with the grown-up hens that there is little or no room for the pullets.

Now, this is a dangerous thing to permit. For one reason, we may be overtaken by cold weather before we know it. And if the pullets are compelled to stay out in trees or other exposed places, they will not do as well as they would if they had a good, warm place to live in. They will be so chilled and set back that they may not lay as they might otherwise do.

These are reasons why we ought to make provision at once for all the pullets, before the really cold weather comes on. If we have not houses enough to accommodate the whole flock, old hens and all, either there should be new houses made or the old stock sold off so that the pullets which are the really profitable birds, may have a fair chance.

If nothing better can be done, some old outbuilding might be temporarily fitted up with roosts, nest boxes, etc., to receive the young stock. It will be rather more difficult for the needs of modern poultry, but it can be done until such time as a house for the birds may be put up.

Comfort counts for everything with poultry. If we could know all the losses which are due to lack of this essential, it would surprise us. The poultryman who wants to make the most of his birds must surely not overlook this matter; and it will pay to be ready for the pullets at once, before the winter shuts down upon us.

E. L. Vincent.

THE NEW CHICKEN POX DISCOVERY.

To the Editor of The Homestead:

In former years chicken pox has been especially prevalent in the South, although by no means unknown in the North. Now its ravages seem to be increasing north of the Mason and Dixon line. As it is a disease most common in the late fall and early winter, it is a timely subject at this season.

Wisconsin has experienced such severe outbreaks of this disease among her poultry flocks that the matter was made a special subject of investigation at her experiment station. Its presence was recognized at some of the midwinter poultry shows last year.

It had been noted that fowls having the disease and recovering, were henceforth immune from the malady. This set some of the experts to thinking. The idea of vaccinating against chicken pox was not altogether a new one, as a European scientist had experimented somewhat with a serum, which, however, had not proved altogether satisfactory. The investigators connected with the University of Wisconsin took it up, and there seems a fair prospect that full immunity may be secured through the use by vaccination of the serum they have discovered. Already they have sufficient confidence in their discovery to be certain of its efficacy for one and a half to two years.

When this method is perfected it would seem possible by concerted action to wipe out this scourge from our flocks. It will be especially valuable to large commercial poultry plants, where the preventive and curative measures can be most economically carried out. Dr. Hadley says in his report:

Every detail of the disease, its prevention and treatment, were carefully gone over, and it was found that the vaccine was successful with infected as well as pox-free fowls. The vaccine is most valuable, however, when used as a preventive among fowls that have shown no signs of the disease.

In these experiments it was found that only four hens out of the 440 pox-free fowls that received the vaccine developed any clinical symptoms, which shows conclusively the efficacy of the treatment, less than 1 per cent of the fowls subsequently developing the disease.

Appended to this most interesting report is another statement which seems to open before the poultryman possibilities of security previously undreamed of:

Chicken pox and roup are said by authorities to be the same disease manifesting itself in different forms, while others declare they are two distinct diseases, but that they may both be present at the same time. In view of the similarity of these diseases, it is thought that the use of the vaccine treatment so successful in the case of chicken pox or sore head may be applied with as equally good results when roup threatens a flock.

May this blessed possibility prove a certainty! And now in view of the urgent need of some whose flocks are at present suffering with this dreaded disease, we quote a remedy recently given by a southern breeder who says he has never known it to fail:

Just as soon as any birds are affected, pen all of them up and treat as follows: Procure two ounces of carbolized vaseline and ten grains of yellow oxide of mercury. Mix thoroughly and anoint each bird's face, comb and wattles, etc., whether they have the disease or not, and you will have no more trouble with chicken pox. If some of the birds are worse than others, apply several times. Better results will be obtained if you remove the scabs before applying the mixture. A little permanganate of potash in the drinking water will act as a tonic and help to effect a cure. Use a one-grain tablet in a gallon of water.

As it has not been possible as yet to put the vaccine within the reach of all, this simple and easily-applied remedy will doubtless prove a boon to many a troubled poultry man or woman. Mrs. S. B. Titterington.

"It is better not to know so much than to know so much that is not so." For instance; A man had worked in the city the greater part of his life, and then moved to a farm with no preparation for the work. Poultry was to be one of the main lines for quick profit. He fairly ached to find an excuse to experiment with his chickens. The young stock became afflicted with gapes and he straightway began to put his hastily-acquired "knowledge" into operation. A strong liniment was mixed with their feed, and soon ulcers broke out all over their heads and mouths. To remedy this condition, a solution was made of equal parts kerosene and water and despite the warnings of those who knew better, this would-be poultryman dipped each chicken, with the result that within two days the entire lot was dead. No doubt that man had read that that particular liniment was a cure-all. No doubt he had "read" that dipping in a kerosene solution was good for—well, something. No doubt people should be more careful in writing that of which they know little or nothing and no doubt any one in his right mind should know better.

About housing your flock—all in yet? That annual roundup is inevitable and the way that many of us were caught unprepared in November two years ago should be a wholesome lesson. The open air is preferable as long as it is safe, but autumn weather is uncertain and not to be trifled with. Now do remember that your poultry house should be ventilated. Nine cases of roup out of ten are contracted after the flock is housed.

Mr. Firke, the Illinois goose man whose fattening and shipping of geese has caused wide-spread comment, has completed fattening quarters for fifteen hundred head to be handled next winter. The result will be obtained for this department.

POINTERS

—Mrs. J. M. Dries, Ashton, Iowa, has Light Brahma cockerels for sale as per quotation in the advertisement on this page.

—On this page of the Homestead appears the advertisement of Mrs. Wilson McIntyre, Red Oak, Iowa, quoting prices on unscored single comb White Leghorn cockerels and pullets.

—On this page of The Homestead appears the advertisement of Mrs. Sophia Rader, Laurel, Iowa, giving prices on Single Comb Rhode Island Red Cockerels and Indian Runner drakes.

LEGHORNS.

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels; also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Fischel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

S. C. BROWN LEGHORNS-- A limited number of choice Ckls. and pullets at $1.00 each till Nov. 1st. Write me for exhibition stock. Orlando Jacobs, New London, Iowa.

250 S. C. BROWN LEGHORN cockerels, hens and pullets, 75c and $1 each. Sires score to 93½. Winners for 10 years. Buff Cochin Bantams, 75 cents. Address Mrs. Will Michael, Selma, Iowa.

SINGLE COMB BROWN LEGHORN COCKERELS $1 each while they last. Address E. A. Bergsten, Sperry, Iowa.

ROSE COMB BROWN LEGHORN COCKERELS 75 CENTS each until Dec. 1. Mrs. John L. Roberts, Chapin, Ia.

SINGLE Comb White Leghorns, 250 ckls. at bargain prices, guaranteed to please, $1 and up, circular and show record free. W. F. Wallace, Diagonal, Ia.

FOR SALE: S. C. W. LEGHORNS. One-year-old hens at $10 per dozen. Also fine lot of cockerels. Mrs. S. J. Philson, Harlan, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels, $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley, Selma, Ia.

S. C. W. Leghorns, Young's strain, unscored cockerels, $1; scored, $2.50 and up; pullets, $1 each. Address Mrs. Wilson McIntyre, Red Oak, Iowa.

FOR SALE S. C. W. Leghorn cockerels, 90c each. Alfalfa seed, $8.00 per bushel. Address A. Jacobson, Madrid, Iowa.

LEGHORNS--- Rose and Single Comb. Buff, White and Brown, $1.00 each. Doz. $10.00. Progressive Poultry Farm, Hampton, Iowa.

LANGSHANS.

BLACK LANGSHAN COCKERELS at a bargain if taken this mo. from penned stock. Bruce Cavitt, Mt. Sterling, Ia.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY

Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

BIG-BONED, deep red, Rose Comb Reds, red eyes, long back, low tail, high scoring, $5 each, good breeders, three for $5, cockerels, pullets, guaranteed. Address Highland Farm, Hedrick, Iowa.

S.C.R.I. Red Cockerels from $1, $1.50 and up; Fawn Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

FOR SALE—R. C. R. I. Red hens, Pullets $1.50 each, $15.00 per doz. Cockerels $2.00 each, $18.00 per doz. Mrs. Charles Belz, Conrad, Iowa.

MARCH and April hatched S. C. Rhode Island Red Cockerels, extra good color. Prices right. Mrs. Frances Strong, Oakland, Iowa.

DUCKS.

White Pekin Ducks and Drakes

DRAKE and hen took first prize at the Oswego, Kansas, poultry show in November, 1912. Score 97-97½. Write your wants.
JOHN M. HALL - - WILLIAMS, IA.

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

FAWN AND WHITE Indian Runner ducks and drakes, October sale, $1.00 each. All winners. Address Bert A. Randell, Mt. Zion, Iowa.

$10.00 PER DOZEN. Yearling Indian Runner ducks, Faun, also Penciled. Some winners. R. C. Dickson, Box 30, La Harpe, Illinois.

FAWN AND WHITE Indian Runner ducks and drakes, $1.00 each; $10.00 per dozen while they last. Write Mrs. Howard Niswander, Kinross, Iowa.

MISCELLANEOUS.

Smith's Big Removal Sale

AS I am going to move to Minnesota December 1, I will sell my entire flock of Bronze turkeys, Pekin ducks, Embden geese and S. L. Wyandottes, at big reduction if taken at once. These are all high-class and well-marked birds.
J. D. SMITH - - MONTEZUMA, IOWA

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 98¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

It is easy enough to be pleasant
When life flows by like a song,
But the man worth while is the man who will smile
When everything goes dead wrong.
For the test of the heart is trouble,
And it always comes with the years,
And the smile that comes with the praise of earth
Is the smile that shines through tears.

Literally a part of the above poem would mean little or nothing. It would call to mind a face distorted with a meaningless grin. From the standpoint of principle it is all right. Everyone desires to be happy. What happiness really is depends on the person. People there are who appear to get enjoyment out of being miserable, especially if they can share it with others. This, however, is a questionable kind of happiness.

Happiness has been defined as perfect contentment. This is true in part only; there are those who are contented that have no business to be. No true happiness ever came from dropping weakly down and being contented with any and all conditions.

All too many depend upon outside conditions for happiness instead of learning to depend upon themselves; miserable indeed is he who must at all times be entertained or diverted to be "happy."

"It is easy enough to be pleasant when life flows by like a song." Few indeed are they whose "life flows by like a song;" and equaling the inconsistency of a woman is the fact that, almost without exception, the people who are in this sort of environment will not admit that they are happy—more often the reverse.

Cheerfulness is the basis of true happiness. To be really cheerful, means to be courageous, helpful, and to make the best of a trying situation. Just as true as we live if we force ourselves to be outwardly cheerful we will in time become inwardly happy. It is simply the result of cause and effect. To be cheerful means to be ultimately happy.

Happiness is not confined to the classes, neither to the masses; also it is possible to acquire this most desired treasure, whether or not we are wholly content.

As two women were leaving a restaurant in a western city one of them, who was happy in spite of adversity, noticed a much agitated employe talking over the phone. "Is he badly hurt? I am his mother." Swiftly the other mother's thoughts went back home to where her own "kiddies" were anxiously awaiting her return. "I hope your boy is not seriously hurt," she said gently to the almost frantic woman. "Did the accident occur since you left home?" "Home," she echoed bitterly, and with scant courtesy; "I was turned out of house and home, and another woman is there over my children!" With a sympathetic word the other passed into the street with her companion, who remarked, half resentfully, "She is so crushed and friendless that she regards every one as an enemy," returned the other, with a "smile that shone through tears," happy that she had been privileged with an opportunity of speaking a kind word, well knowing that it had not fallen on wholly barren soil.

People there are who are happy that do not know it. This is an example of as nearly true happiness as we find, and its counterpart is possible in by far the greater number of homes. A little family possessed enough of this world's goods to live comfortably, and work was plentiful. After a strenuous day's work for others, the young man found that by working late he could plow his own garden. A small kitchen garden it was, and each "round" found him at the very door, where the young wife was preparing supper, while the baby pounded the shelf of his high-chair and crowed with delight. That genuine happiness was to be found here lies in the fact that these people understood that the world will never hold anything better, even if they live a long life, and amass a fortune, and so they are living a little every day.

HOME AND HOMEMAKING.

LITLE HELPS BY THE WAY.

If somebody loves you,
You cannot be sad;
You've cause for rejoicing,
You've cause to be glad.
You've a subject for song,
As you journey your way;
If somebody loves you,
You ought to be gay.

For love, after all,
Is the purpose of life;
The purpose of struggle,
And turmoil and strife,
If somebody loves you,
Why worry and sigh?
For love we are living,
And love cannot die.
—Edward A. Guest.

The small courtesies of life, given or received, make a man none the less a man.

This is the best day the world has ever seen. Tomorrow will be better.—R. A. Campbell.

The only man who never makes a mistake is the man who never does anything.—Theodore Roosevelt.

THE NEW SUIT.

How many of our girls are to have a new suit this winter? All of you, I hope. Now listen: Do not make a mistake of purchasing the first one that strikes your fancy; if you do, you will probably be tired of it in a fortnight. Eschew trimming, buy the best material your purse will afford, and the tailoring will do the rest. Better far to wear a really good garment two seasons than to invest the money in two new cheap suits.

FOR THE COOK.

Roasted Spare Ribs.—Hack the ribs down the center, just enough so they may be bent together. Prepare any desired dressing; the old-time bread dressing is a general favorite, seasoned with either sage or finely minced onion. Spread thickly on one-half of the ribs and bend the other side over, fastening with a skewer or twine. Place in the oven and baste frequently. When done, remove from pan and pour a little cold water into the stock, that the fat may be easily removed. Thicken with flour stirred smoothly into a small quantity of water.

Wild Grape Jelly.—Equal parts grape and apple juice, make an appetizing jelly, with an odor almost like honey. Boil the juice ten minutes before adding the sugar, which should be previously heated. Cook rapidly until the mixture foams and rises to the top of vessel, when it is ready to put into glasses.

AMONG OURSELVES.

We have answers today to the heartsick, soul-sick cry of "Mrs. Lonesome." "Mrs. Ditto" tells how she interested an indifferent husband in spite of himself:

Just a moment—then the oven will be hot and the buns must be baked. Dear little "Mrs. Lonesome," I read your letter again and again. How I wish we could talk to you right from our hearts. I say "we" advisedly, because I know that letter was read more than once by more than I. You knew that yours was not an unusual experience, and so you came to "Among Ourselves" for comfort and advice. Our sympathy you surely have, but who of us can give advice? We might let a little bitterness creep in; bitterness against our own lot, and the lot of women in general. You love your husband; if he were to step in now, and take you and the babies in his strong arms, how happy you would be! But he doesn't, he is thinking of pigs. What shall you do about it? Do what soldiers have always done—do your duty. Whenever someone in power acted to his own selfish end, and things got into a dreadful tangle, then came the soldiers to right the wrong, to suffer, and too often to die in the cause. Do you realize that we are all soldiers? If someone fails to do his duty, then we must do our duty just twice as hard. Some people live to be old before they realize this, and some never do. I, too, am a young wife, and I am left alone, oh, so much of the time! In my case, there are no precious babies to love and care for, though my heart aches for them. However, I took my husband's name, and belong to him. Failing to interest my husband in the things I like, I made up my mind that I would become interested in the things that interested him. Then it was that happiness came to stay. It may be that a similar proceeding would not reach your case at all. Everyone must study out his or her own problem. Only in extreme cases are men wilfully cruel. And now

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a kiss for each dear baby, and love and good wishes for yourself from one of your many friends and well wishers.

"Mrs. Ditto" has given us a good talk, and her plan would answer in most cases. Who else has worked out this hard, hard, problem?

Mrs. "Has-Been" gives a very philosophical solution for a "grouch" that her husband persisted in carrying:

I have never written a word for this department, although I have greatly enjoyed the good things others have written. When I read what "Mrs. Lonesome" has written I couldn't keep still any longer. I heartily sympathize with "Mrs. Lonesome." If I were in her place, I would put the babies to bed and go to bed myself, and get all the rest and sleep I could, and so save my strength for my work. That kind of man never cares whether his wife is worrying about him or not. Neither does he care how hard she may be working for him. I would talk to him in just the way he talked to me. If he didn't talk at all, neither would I. This may seem cruel, but, dear sisters, my husband was seldom away from home, but from the way he treated me, I would rather he had been. While at meals, and in the evenings, he would say no word, unless it were to ask why I had not done this or that, or why it was not done better. After trying everything I knew, and getting nothing but a grouchy answer, I considered nine years quite long enough, and tried a new plan. If he was pleasant, I was pleasant. If he was cross, I was cross. In short, I treated him exactly as he treated me. For a time it nearly killed me, but knowing it would never do to give in, I kept it up as long as he did, and, after many trials, was rewarded with success.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery Address all orders to The Iowa Homestead, Des Moines, Iowa.

6213 Ladies' Coat.—Serge, broadcloth or cheviot can be used to make this coat. It can be made in either the long or short length and with either the notched or sailor collar.

The pattern 6213 is cut in sizes 34 to 42 bust measure. Medium size requires for the full length coat 5¼ yards of 44-inch material. Price of pattern ten cent.

6266 Ladies' Dress.—Linen or serge can be used to make this dreess. The closing is made at the front and the long or short sleeves can be used. The two-gored skirt is made with a front and back yoke.

The pattern 6266 is cut in sizes 34 to 42 inches bust measure. Medium size requires 4½ yards of 44-inch material with 2 yards of edging and 3½ yards of braid. Price of pattern ten cents.

6309 Ladies' Skirt.—This skirt is made with the closing at the left side of the front. Either plaits or gathers can be used at the side. Serge, cheviot or broadcloth can be used for this skirt.

The pattern 6309 is cut in sizes 22 to 30 inches waist measure. Medium size requires 2⅝ yards of 44-inch material. Price of pattern ten cents.

6291 Ladies' Shirt Waist.—This waist may be made in either the severely simple style, perfectly plain, with standing collar and short sleeves, or it may have the sleeves shortened to the elbow and the neck cut a little low and finished with a wide and ornamental collar. There is a small shoulder

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yoke, coming down well on the sleeves and the loose underarm is novel.

The waist pattern, 6291, is cut in sizes 34 to 42 inches bust measure. Medium size requires 2⅛ yards of 36-inch material. Price of above pattern ten cents.

6274 Boys' Russian Dress.—This pretty suit has an extra large armhole and is made high in the neck, with the closing well over at one side. The belt is wide and flat. Such materials as linen, pique, poplan, pongee silk as well as the simpler fabrics, gingham, percale, serge and the like are used for these suits.

The suit pattern 6274 is cut in sizes 1, 2 and 3 years. Medium size requires 1¾ yards of 36-inch material. This pattern can be obtained for ten cents.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 56, Box 21, Pitlo, Illinois.

TOPICS FOR NEXT TIME.

Letters are desired that tell about kindness to animals. Now think: What, so far as you remember, is the greatest kindness you ever knew to be offered to a dumb creature? Is kindness to animals to be commended, and why? Please give your full name and address as well as your pen name, and remember that neatness and punctuation count much.

Likes Ponies and Stories.

We always have a big dinner the last day of school. We, my brother and I, live two miles from school, and keep a pony to drive. He is a perfect pet, and will do many cunning things. We love him. I like to read stories, especially about early settlers and bears. It would be interesting, I think, if some of the young folks would tell us about these things that have been told to them by their fathers and grandfathers. — H. A.

A Small Farm Woman.

We have a round barn that contains a tank in the loft which holds sixty barrels of water. The barn also has a litter and hay carrier. My papa keeps black cattle. For pets I have a Scotch collie and a kitten, besides a family of eight dolls. —Grace Johnson.

[Come again, Grace, and tell us the name of the black cattle which your father keeps.]

A Farmer Boy.

I am a farm boy. I help in the garden and feed the chickens and calves. I have three pets: a hen, a pup and a little pig. The pig's mother died when it was a little thing and I take care of it. I am one boy who will promise not to use tobacco. I think Velma Shaw is right in what she said about it. I think the answer to Ruth's riddle is, a hill. It is as hard to get up as a pill is hard to get down.

—Burl Huffman.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 5. Num. 22:1-13. Nov. 2, 1913.

BALAK AND BALAAM.

A great racial migration was in progress. The natural effect of it was to fill all neighboring nations with gravest apprehension.. The alien clans were like a scourge. They were myriad in number, warlike in spirit, and thoroughly trained to arms. They had had victories enough to give them confidence. No land could support both them and the original population. Their entrance was of necessity the expulsion of the native races. One frightened king bethought him of a strange weapon—something brand fire new in the art and science of war. It consisted in a concentration of malevolent and hostile thought. He wanted every living soul of his nation—men, women and chidren—to form a concert of evil-wishing against Israel. The irreversible psychological effect of this would be a suitable moral depression—a paralysis of the esprit de corps of the invaders. It would be noiseless anad smokeless, but more deadly than a modern Gatling gun. Success in this strange process turned upon the finding of one whose fame for true prophecy would give prestige to the scheme and whose magnetic influence would draw all into the proposed league of hate. So Balak turned to Balaam. He must be had at any price. Cost must not be counted when the very perpetuity of the dynasty was at stake. At most the scheme could never make as heavy a draft upon the treasury as the mobilizing of an army. Balaam's descent to hell makes a fine study in casuistry—well worth close attention. It is passing strange that one whose very art was to read the motives of others, and divine by this means whether their success would be genuine and permanent or not, should not be able to read his own heart, or at least be controlled in his action by what he read there. Balaam temporized and lost his soul. He could not withstand the flattery of having an imperial embassy waiting his pleasure at his door. Pride was the first step. Cupidity was the second. He was dazzled by the glint of gold. All his rhetoric goes for naught. His fine speeches do not ring true. His tongue affirms one thing, but at the very moment his heart is toying with the opposite. History does not afford a more striking commentary upon the familiar text about knowing one's duty and doing it not. Balaam did not even get the cheap reward of gold or kingly apparel, which perhaps he craved more, while the "soundless lash" of a violated conscience beat him with many stripes. He knew his duty, he did it not! "How sad to trace each step from splendor to disgrace!"

WHAT ONE SCHOOL IS DOING.

To the Editor of The Homestead:

I have recently had occasion to make inquiry as to the character of the work being done by one of our local schools and I am going to submit to you the results of my observation. This school is located in the outer suburbs of a large city, but, while a part of the city system, and under the supervision of the city superintendent, it is practically in a farming district. The principal is a man whose experience as an educator has covered the field that is open to a teacher of country, village and city schools. Having been raised on a farm, the interest in the farm and its products remained with him and induced him to ask for the assignment to this suburban school. He wanted to inject into the usual school methods of instruction some ideas with reference to practical agriculture.

The plans put into practice in the accomplishment of the purpose were unique. The primary object was merely to awaken an interest in the work of the farm and not in any instance to provide instruction. Patrons of the school were first approached. They responded by contributing a small sum of money to be offered as prizes to pupils of the school who would, at the end of the growing season, show the best samples of corn, potatoes, pumpkins, squashes, etc. The prizes were awarded at an exhibition held at the schoolhouse. The competition was voluntary and there were no restrictions as to quantity grown or manner of cultivation. No instructions or advice were given as a part of the school work. If information were obtained it was by personal endeavor of the pupil, and usually from the parents. The exhibit of the first year was not a large one, but it was the means of interesting parents and pupils who had before given it no consideration.

The second year work culminated in a pretty little show held early in October. In this the competitors included thirty-four of the 106 pupils enrolled. Poultry growing had been added and a division of domestic science provided for girls. In this prizes were offered for sewing, butter making, bread and cake baking. A total of $22 had been subscribed for distribution as prize money. The exhibition was an excellent one, not so much in the results shown as in the enthusiasm made manifest on the part of both parents and pupils. A lecture was a part of the program of the afternoon, the subject being one appropriate to the occasion. In the agricultural department there were two varieties of corn, two of potatoes, pumpkins, squashes, melons, tomatoes, etc., which were supplied by thirteen boys. In the domestic science, or girls' division there were butter, cakes and bread of superior merit, as well as excellent specimens of sewing and plain needle work.

The success of this effort to create interest in soil culture has been so

28,000 Perplexed Women Who Keep House and Wanted Something New and Different

For the table, a new recipe, a new way of doing something, a quicker way to wash, iron or clean; new menus. These women wrote to us and each one was quickly and fully answered by mail in a personal and direct way.

Thousands of women wanted to know how to buy or cook or serve more economically: how to meet the high prices of food: how to feed their men folks or their children—in short, all the problems of the housewife.

Naturally, this is a strong and leading department in the work of a magazine like *The Ladies' Home Journal*, and there has been perfected back of the magazine one of the most effective domestic-economy services possible, with two expert household authorities as editors. And these stand ready to smooth all perplexities of the housewife who doesn't know or who has become weary and wants something new or different: a new impulse: a new idea: a thought: a help. What housewife doesn't, after keeping house for years?

And the help is given quickly by mail: direct, personal and fully. And nothing is charged for it to any reader of *The Ladies' Home Journal*. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

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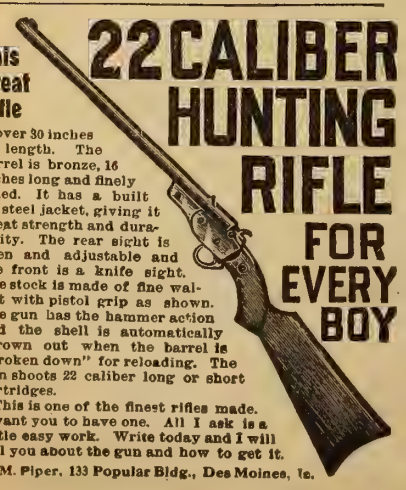

s over 30 inches n length. The barrel is bronze, 16 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

This is one of the finest rifles made. I want you to have one. All I ask is a little easy work. Write today and I will tell you about the gun and how to get it.

A. M. Piper, 133 Popular Bldg., Des Moines, Ia.

marked as to induce the board of education to purchase two acres adjoining the school grounds for the purpose of enlarging the experiment and giving it official endorsement and support.

Next year the plan will be broadened. Prizes will be offered for home-grown products, while the school ground will be devoted to experimental plats with which to illustrate and study habits of plant growth, the effects of different methods of cultivation, and the benefits of fertilization. To each boy will be assigned a section of ground on which to conduct the experimentation in the growing of such grain or vegetable as he may select. Work in this tract will be under the direction of the principal and the general supervision of the board. The instruction planned in connection with this experimental work will include preparation of the soil, selection of seed, planting, cultivation, harvesting, and selection of samples.

Preparatory to this work, an elementary course (of the regular college short course order) will be inaugurated. Animal husbandry will also be taken up in a primary manner. It is planned that in the latter work assistance will be received from professors of the state college of agriculture.

It is hoped, too, that the next season's competitions may include acre plats of corn. This is not beyond the range of possibilities, as it is now evident that 75 per cent of the enrollment of the school will in another year take an active part.

It is a surprising fact that this small start in the encouragement of soil culture among young boys has led to betterments not looked for or included in the original objects to be attained. Boys became more studious, and were constantly in search of information concerning the special line which they had taken up. In some cases spare time usually taken up by playful occupations of boyhood was given over to work with the grain or vegetable in which they had become interested. There was a decided improvement in the general conduct of the school, and a uniform feeling of satisfaction on the part of parents.

C. C. C.

STORING CANNAS AND DAHLIAS.

There is a well-known difficulty in carrying over these tubers successfully in common cellars. If they are kept too dry, or too wet, too cold, or too hot, injury is bound to result. A very nice balance of conditions must be maintained. Decay will result if they are kept too damp. And they will shrivel to lifelessness if kept too dry. If the cellar is cold they will freeze, and if too hot the decay is hastened. It is the settled opinion, the result of many experiments, that a furnace-warmed cellar is, upon the whole, the best place for them. But it should be a large cellar, so that the tubers need not be kept near the hotter parts of the room.

It is best to dig the tubers before the soil freezes, for the tops of the tubers must not be frosted. Many a loss is explained by the fact that the tubers were frosted before they were taken from the garden. Usually there comes a frost which cuts the bloom without injuring the bulbs; in fact, the stalks will remain green near the ground.

Before digging cut the stalks about six inches from the surface. Dig carefully, letting as much earth as possible adhere to the roots. Leave the separation of the roots to be done in spring at planting time. It is an important point to leave the dirt attached to the roots. This will gradually dry out, but it will retain enough moisture to carry the tubers through the winter under ordinary conditions.

But if, when you dig, the soil is dry and cleaves away from the roots, you must supply the deficiency. As a matter of experience, the earth will usually fall away when you dig, so that it is not safe to trust to that. The way is to prepare a puddle, two quarts of red clay to two pails of water, or put in more clay if you like it thick. Have this puddle in some receptacle large enough to cover the whole bunch of tubers, when it is inserted. Lift out carefully, letting the mud adhere as much as possible. Set them down and then disturb them as little as possible. As the mud dries it will form an impervious coating which will maintain the requisite moisture, and will also, if the cellar is dry enough, prevent any decay.

It is well to make an examination during the winter. If the tubers are found to be shriveling they are too dry—you need a cooler place for them. If they are prone to decay their surroundings are too damp. Move them to a drier, warmer place. Use care, remembering the conditions needed, and you will succeed in keeping over your tubers.

Some varieties, both of cannas and dahlias, are easier to winter than others, and that means you must give a little more attention to maintaining the right conditions.

Successful wintering is an important matter of dollars and cents. Those you have grown in your garden, if well wintered, are just as good as the ones you may buy of your florist, at ten to twenty-five cents each. This means a good deal to the one who loves these flowers and likes to have hedges of cannas and dahlias.

OUR AGRICULTURAL NEEDS.

To the Editor of The Homestead:

The governor of Iowa recently appointed a committee to consider and report upon the agricultural needs of the state. It is to report to a commission appointed by congress to study the above question.

I presume a good many people would say the most important thing for the farmer is to raise larger crops. This is important, but the work of the extension department of the state college of agriculture through short courses, farmers' institutes, special trains, bulletins, etc., has awakened quite a general interest in the production of larger crops. The average yield of corn has been perceptibly increased by an improved system of rotation in which one of the legumes more generally enters; and the selection of seed and the preparation of the seed bed have received more attention than formerly.

While it is desirable to raise the largest crops possible it is just as important to be able to sell them at a price that shall be profitable to the grower. Under our present system of marketing this is not always realized. The difference between the price the producer gets and that which the consumer pays is often out of all proportion to the cost of transportation. When the price of produce is 100 per cent more in the city than it is fifty miles away some one besides the railroad company is making more for handling it than he ought, or else it passes through the hands of more middlemen than necessary. How to get the producer and consumer closer together is one of the crying needs of both classes. If the relationship between them could be established on mutual lines of helpfulness it would do much to reduce the cost of living in the city and at the same time make it more profitable to the farmer.

Co-operative marketing has been made a success in some lines of agricultural and horticultural production. For example, in dairying and citrus fruits. About the only co-operative industry that has proved a marked success in the middle West is the creamery and that was a slow growth.

I very well remember what a struggle the co-operative creameries had before the farmers learned to trust themselves and to stand by each other.

The principle of co-operation has been so thoroughly demonstrated in many ways that it is strange the farmers have not adopted the methods used so successfully in dairy matters and which are also used by business men and manufacturers.

The matter of prime importance in successful co-operation is getting together and getting acquainted with each other. To accomplish these desirable conditions farmers' clubs ought to be multiplied many fold. If every neighborhood had a weekly or monthly club or society in which farmers could get better acquainted with each other, and questions of mutual concern could be discussed, it would not be long before co-operative buying and selling could be brought about to the advantage of the rural worker. If lumber, coal and other supplies could be bought for a neighborhood instead of the individual there is no doubt the purchasing price would be very materially reduced. And if a dealer had to offer a price for stock and grain that would mean all that produced by fifty farmers instead of one he would undoubtedly pay every cent the market warranted.

It seems to the writer that the United States Department of Agriculture could not do a more helpful service to the rural population than to promote the formation of country clubs. Farmers' institutes are all right; special trains for the purpose of awakening an interest in some phase of farm economy are good as far as revival work is concerned, but what is needed is something to keep the interest from flagging.

The department has promoted clubs in the South and we are told that they have awakened a great deal of interest and have been very helpful. There is no reason why it should not help the farmer in the North in the same fashion.

At the present time there is a good deal being said on the subject of rural credit banks, but I have no great faith that any benefits will accrue to anybody by the authorization of such banks except the politician. The bills before congress that I have seen, if enacted into law, will not, I fear, help a poor man to buy and pay for a farm. But if the poor man who wants to get started only thinks he is going to be helped, and votes for the congressman that favors the bill, the sole purpose of the cheap politician will have been accomplished.

Let the government help in a way that is above suspicion of political ambition. Let it help the farmers to help themselves.

Eugene Secor.

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THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Oct 24.—The advance in fat cattle values this week may be logically expected to fetch in a run next week, but the fact must not be ignored that the sharp upturn this week has been due to limited supply as much as broadened demand and an excess over actual requirements next week is the last thing to be desired. The fact has been demonstrated that killers were doing a hand-to-mouth business and are under the necessity of getting access to a fresh supply right along. This disposition not to accumulate beef in the coolers is doubtless responsible for an aggravatingly choppy market.

Packers were out picking up cheap, grassing, native steers on the week-end market after a fashion that caused the trade to sit up and take notice. These $7@7.40 steers weighing 1,000 to 1,100 pounds have had no corn and are strictly on the grasser order. How much higher they are than a week ago was the subject of some speculation as no reliable outlet existed then, but they were considered 20@35c higher. Hunger for them is capable of but one construction. Killers are not looking for much western beef the rest of the season, and the trade calls for cheap stuff in considerable quantities. It is suggestive that the Argentine scream is a bogey, as the South American chilled article is exactly the kind of beef that would naturally compete with the native steers selling around $7. The result of this demand was the clearance of a lot of stuff that was on the sale list last week, fleshy steers undesirable from a feeder standpoint.

Most beef steers are 25 to 35c higher than low spot last week, but many of the plain weight grades now selling around $8.50 to $8.75 are 40c up. Yearlings lost little last week and show the least upturn. A lot of heavy cattle that did well to make $9 last week have gone over at $9.25, and prime yearlings scored a $9.70 top, a new high notch for the year. Best heavy steers stopped at $9.35.

The disposition of packers not to accumulate probably accounts for the present aggravating eccentricity of the cattle market. So far not enough Argentina beef has reached United States ports to exert an influence on prices, but Canadian stuff is being heard from and is diverting considerable demand from Chicago, eastern butchers and feeders having filed few orders here since the duty was taken off. The Canadian run is not expected to be of long duration, however, and Canadian killers are already showing alarm over a prospective shortage that will necessitate putting live stock trade between the two countries on an absolutely non-tariff basis.

A twenty-car consignment of Alberta grass cattle, the first to reach Chicago from western Canada since the tariff bars were lowered, was received Monday and attracted a lot of attention. They were of mixed breeds, Short-horns and Herefords. The steers, 223 head, average 1,384 pounds, sold at $8.15 and 90 head of 1,295-pound spayed heifers made $7.40. The removal of the tariff has opened up to Canadian shippers the markets of the United States, and that they are taking advantage of the generally favorable conditions existing at those markets is evidenced by the free movement now in progress. The Buffalo market is being rather more liberally supplied than any other, as Toronto is shipping to and through there at the present time a very considerable number, some of which are for immediate slaughter and others for distribution over Buffalo contiguous territory for feeders. St. Paul is getting quite a considerable number, more especially from Winnipeg.

The trade this week on stockers and lighter fleshed feeders has traveled in the opposite direction to the fat cattle market. Receipts of all kinds of light stock cattle have been heavy and there has been a surplus of most all classes as measured by demand. Practically everything in the stocker steer class shows 15@25c declines from a week ago, the exceptions being choicely-bred steer yearlings, few of which have been available at more than a 10c saving. Last week's declines checked the runs of heavy, fleshy feeders and killers came strongly into the competition for fleshy steers weighing upwards of 1,000 pounds, taking many cattle such as fell into feeder hands last week and at higher prices than then current, but the regulation medium weight, plain qualitied and lighter fleshed feeders with weight have cleared slowly at and below last week's bottom levels, and practically all classes of stock and feeding steers now show declines of 40 to 60c from best time around the month's opening.

The presence of Canadian stockers on eastern markets in good numbers has been a big factor in the depression of the trade here on thin young steers, withdrawing much demand in eastern territory from this market, while fear of an invasion of foreign beef in quantities that would prove harmful to the fat cattle trade is doubtless aiding in suppressing investment demand in feeders. That a continued upward trend of beef cattle values the next few weeks would do much to restore confidence in the stability of the trade, however, and result in a broadening demand and higher prices for thin cattle, is the general trade opinion.

Working in sympathy with the advance in beef steers and responding to the beneficial influences of colder weather, termination of the Kosher holiday period and modest supplies, the market for the more desirable grades of butcher cows and heifers shows an advance of generally 15@25c over a week ago, with some of the good killing heifer stuff up 35c. The advance was scored during the first half of the week and since maintained. A medium class of native grass cows selling downward from $5.50 is hardly more than 10@15c higher, while canners and cutters show less strength, packers having supplies of such classes direct from other points during the week which have been of material assistance in their efforts to side-step advances on such classes.

Fat heifer yearlings, the grain-fed baby beef kind, are finding hungry demand as evidenced by the sale at mid-week of right fancy heifer yearlings up to $9.40 and lack of discrimination against prime steer yearlings carrying heifer ends, some heifers being included in the yearlings that topped the week's trade at $9.70. There has been a paucity of choice grain-fed heifers in the run, however, and few have passed $8, a price that took prime heavy-fed heifers. Most of the medium to right choice grass and warmed up heifers of handy weight sold at $6.50 to $7.50, a four-car string of choice heavy Canadian sprayed range heifers reached $7.40 and a string of the Matador range heifers made $7.30 against $7.15 last week. Common to fair light grass native heifers sold down to $5.75 to $6.50 a scrubby, thin dairy bred sort down to $5. A few fat cows are reaching $7, though $7.50 or better is quotable for prime, but $6.25 to $6.75 has taken very good short-fed to choice fat beef cows and most of the native grass cows of plain to good butcher class sold at $5.25@5.85, few cutters reached $4.75 and canners sold downward from $4.25.

A break of about 30 to 40c per hundredweight is in evidence as the net result of the week's selling in the hog trade compared with closing values last week. It has not been a case of oversupply by any means and the depression may be ascribed to the plans and specifications of packers for establishing a lower cost of raw material on which to start winter packing. One year ago this month they were able to reduce the cost of hogs more than $1 per hundredweight during the month of October, and they evidently have a desire to see history repeat itself in this particular. Current prices of hogs are ranging about 50 to 75c below their cost at this time last year already, however, and it is not held that there is license for packers' buyers to proceed much farther with their bearish campaign this month, in view of the scarcity of hogs and high cost of corn with which to produce pork this coming winter. The close Friday was on the following basis of prices:

Bulk of sales	$7.60@8.10
Mxed, 210 to 250 lbs.	7.55@7:80
Mixed, 170 to 200 lbs.	7.60@7.80
Medium weights	7.80@8.00
Light butchers	8.05@8.20
Heavy butchers	8.05@8.25
Light shippers	7.95@8.10
Heavy shippers	8.00@8.25
Heavy packing	7.45@7.70
Rough heavy packing	7.30@7.45
Throwout packing sows	6.50@7.15
Fair to choice light	7.60@8.00
Light-light, 135 to 155 lbs.	7.25@7.65
Pigs, good to fancy	5.50@7.40
Pigs, inferior to fair	4.50@5.40
*Boars, inferior to choice	1.00@3.00
Stags, subject to dockage	7.75@8.40
Government throwouts	4.00@5.50

*Subject to government inspection.

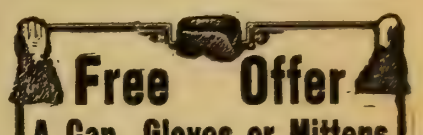
Complexion of the live mutton supply is undegoing a radical change and one that is not for the better as concerns condition of the offering. Chicago had a few thousand head more this week than last, but the run was woefully deficient in point of killing quality, 75 per cent of the range crop consisting of feeders. Montana, Dakota and Wyoming cut loose a great job of their little lambs and their aged ewes and choice fat range lambs practically disappeared. The result has been a sharp advance in fat lambs, while common, little, thin stuff is sharply lower. Some little "pee-wee" 35 to 40-pound western lambs selling at $5 and lower are 75c lower than a week ago, while prime fat lambs, touching $7.65 at week-end are a big 50c higher than a week ago. Best wether sheep sold steady, while fat ewes had a 10 to 15c break and feeding ewes dropped 25c.

A number of loads of fed western sheep and lambs have shown up here this week most of them sans finish. That a pretty free movement of such stock will be witnessed during the next few weeks, due to sloppy condition of corn fields in many sections and to the high cost of feed, is expected, and the trade strongly advises against premature marketing of such stock wherever feeders are prepared to hold it for a finish.

Despite the bloom the fat lamb market is wearing as compared with a week ago, shippers should bear in mind that scarcity alone has made it possible. Conditions at this juncture are not ripe for a booming market. Buffalo slumped down to a $7.25 basis for best lambs Friday and if current prices, sloppy weather and the close approach of winter are not responsible for a much heavier run of native stock early next week than has been coming, the trade will be forced to admit that native ovine stock in respectable quantities is not in the country. The one bullish factor now is the practical absence of fat range lambs. Few more good lambs from the range are to be expected this season.

An authority on mule raising says "the best mule is produced from a light type of horse. A good mule-producing mare has a big head; is rugged, roomy, comparatively heavy bone, a good big foot, and is upstanding. The jack should be as high as possible, have a Roman nose, coarse bone, a big foot, and long ears."

Ask your neighbor to subscribe for The Homestead.



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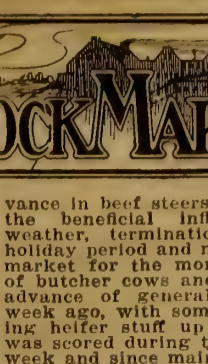

POISON and DEATH Lurk In Your Corn Fodder!

Prussic Acid Is The Great Danger Now Threatening Every Stock Raiser In America

State veterinarians and many editors of farm papers are issuing warnings against feeding corn fodder to stock, because of **prussic acid** which is always present in drouth-stunted corn stalks.

You do not need to be told that much of your corn was stunted in growth this year.

But you do need to be told that poison—**death to your horses, cattle, sheep and hogs—lurks in every corn stalk, whether in shock or left standing!** Unless the action of the deadly prussic acid is counteracted it often kills in a few hours. Many stock losses from this source have already been reported.

Every hog raiser knows too, the danger of feeding new corn to his **hogs**, especially as in this year it is chaffy and stunted. It causes one of the worst forms of indigestion and worms, and like cholera frequently wipes out whole herds in a few days.

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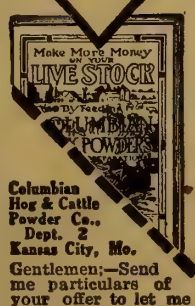

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THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

SILAGE GOOD FOR SHEEP.

To the Editor of The Homestead:

During the winter season when sheep are on dry feed a little succulent food is a great help to them. Whenever it is possible they should therefore be given some kind of green food in addition to grains and dry fodders. I do not believe that there is anything superior to good silage. It surpasses roots in feeding value, besides being grown more cheaply. As a food for fattening lambs it is my experience that the best results are secured by feeding it in moderate amounts in clean, wholesome troughs. Tight-bottom ones are best, since they may be cleaned easily and kept in a sanitary condition. A sour or unclean feeding trough will quickly put a flock of fattening lambs off feed. I always sweep the troughs out thoroughly before feeding, so that when the silage is put before the lambs it is in the best possible condition. Sour or moldy silage should never be fed to sheep or any other stock. If there is much grain in the silage care should be exercised that the lambs are not overfed on grain.

In my experience in feeding farm-grown roughage I have found that good silage puts flesh on fattening lambs more readily and at less cost than any other feed. At the present time I have on feed seventy-two native lambs of my own raising which were weaned the first of September and put on good pasture. As soon as the lambs began to eat grain they were given all they would eat up clean of equal parts of corn and barley. About the first of November they were brought to the barn and fed clover hay twice daily in addition to the grain ration. The first of December I opened the silo and gave them a little silage. The lambs took readily to the new feed and will leave the grain and bright clover hay for it. It is, of course, very important to exercise care in feeding silage to sheep or any other kind of live stock. Too much silage will cause scours in both lambs and old sheep. I find three pounds per head a day a sufficient quantity to feed. Breeding ewes should not be fed silage more than three or four times a week, at the rate of two pounds to each ewe at a feed with some grain. W. H. Underwood.

GROW MORE LAMBS.

To the Editor of The Homestead:

The farmer who will keep breeding stock and grow lambs of uniform size and breed will make good money if he feeds intelligently and markets them at the right time. Often when a flock of native lambs are sent to the market they are so badly mixed in breed and size that they are a torment to the buyer and not much profit to the owner.

One reason why the western lambs sell so well on the market is that they are more uniform in size. They are also of the same breed, as a general thing, and being fed in large bunches they are of uniform size. These lambs are grown on the range. They all come about the same week and get about the same attention, so are about the same size when put into the fattening pen.

The growing of lambs is simply a side issue on the average farm. It has not had the consideration it deserves. One old Scotchman said he could begin with ten good ewes and in ten years pay for the best farm in his county. He may have been exaggerating it a little, but he was a very successful grower of sheep and had gotten rich at the business. My experience with twenty sheep on a small farm has convinced me that there is no stock more profitable. At weaning time lambs have brought as high as four and five dollars. Twenty lambs brought in close to $100 and there was the wool from the flock. What kind of farm animals will beat this for the amount of money invested and the quantity of feed consumed?

One should remember that a flock of sheep will live on a weed or brush patch in the summer time. In the winter clover hay and a ration of oats will keep them in prime condition. Shelter them well and they will take less feed than any animal about the place. Sheep are not vicious with one another. They take little room. A shed ten feet wide and thirty feet long will shelter forty or fifty and sometimes even more. Subscriber.

THE EWES MUST HAVE CARE.

To the Editor of The Homestead:

The flock owner who breeds his ewes to lamb during the late winter and early spring months should provide favorable conditions at the right time. Severe losses result from attempting to handle early lambs without having adequate accommodations to provide comfort for the flock. The first essential to success in handling early lambs is a comfortable and well-arranged sheep barn. It should be well lighted, dry and properly ventilated, and there must be plenty of pens and facilities for caring for each ewe as soon as she shows evidence of lambing. We have found it desirable to keep on hand an adequate supply of light partitions and mangers for constructing pens for the ewes as fast as needed. In this way the flock can have the run of the whole sheep barn or it can be quickly sub-divided as the occasion may demand. It will be found very convenient to have a light manger that can be made fast to the corner of each pen, so that roughage may be fed regularly without being trampled under foot and made unpalatable.

Ewes should have plenty of good, nutritious food during the winter, not only to maintain a good flesh condition, but to nourish the unborn lambs. Roughage alone is not enough. A light ration of grain should be fed regularly. A proper mixture of oats, barley, corn and peas will give good results. For roughage, clover or alfalfa hay and ensilage will furnish about the right proportions of bulk and succulence. A wide range of diet stimulates a keen appetite and promotes the health of the ewes.

Premature birth of the lambs is a frequent source of trouble among flocks. Lambs that are dropped a few days before they are fully developed are weak and it requires painstaking care to nurse them along until they can be brought to their normal condition. Feeding frozen fodder or roots, or feeding too much salt to ewes that have not been salted regularly is the cause of much of this trouble. It requires a great deal of time and labor to save those lambs and get them started, but they are generally well worth the extra time that is spent with them. By placing the ewe and lamb in a pen by themselves and feeding the ewe sparingly for a few days until she regains her normal condition and the lamb is strong enough to take nourishment regularly thousands of those premature lambs could be saved. L. J. Meridith.

TO REMODEL AN ENGINE.

In a recent issue of your paper is an inquiry in regard to using an automobile engine for stationary work. The first thing our neighbor will have to do to remodel an automobile engine for farm work is to increase the size of the cooling tank, as the radiator on the automobile engine is not the proper design for stationary work, it being too small to keep the engine from overheating while it is operating under a heavy load. Get an old barrel and put a piece of galvanized screening over top of barrel, and fill it with the cooling water. Connect the barrel to the circulating system, taking the water from the bottom of the barrel just the same as the engine did from the radiator and then pump it through the water jackets of the cylinder and let it fall on the screening and back of the barrel. If his engine has no pump he need not buy one just because I mentioned pumping, for the thermo-syphon system is just as good if not better than the pump for his use, for the reason that his engine will be loaded and if this is the case the thermo-system is to be preferred above any other cooling system.

He had better put a throttling governor on his engine and not attempt to control the speed as it was controlled on the automobile, because we know that the operator of the automobile was always at his post to care for the variation in the load, when there was any variation. The engine, if used for stationary work will be left to take care of itself the most of the time and the variation in the load will be so great that it would require an operator for the engine to manipulate the speed control levers in order that the engine would not race when on a light load and to give it the required speed for heavy work.

In sawing wood, for instance, we may have a small stick to start with and then instantly change to a dry, hard stick twelve or fourteen inches in diameter. Everybody knows that it will require more power for the large stick than the small one. The reason I recommend the throttling governor and not the hit-and-miss is that the mechanical design will not have to be changed with this kind as with the hit-and-miss governor. If he puts the hit-and-miss governor on the engine it would have to be sent back to the factory and be rebuilt so that the exhaust valves would hook up when the engine was running without a load, and there would have to be a governor arranged in the fly wheel or some other convenient place on the engine in connection with a governor hinge for each cylinder, which would require a lot of time as well as a lot of heavy expense. If he uses the throttling governor it will merely have to be put on the intake manifold between the carburetor and the cylinders, and a belt wheel the size of the one on the governor shaft be fastened on the crank shaft of the engine so that the speed of the govenor will be the same as that of the engine. This principle of governing is the same as on the steam engine and several of the gasoline traction engines use it. Our friend can write to any of the standard governor companies and they will be glad to give him information and quote prices on their governors.

He must not think that if the engine that he is intending to purchase is rated at thirty horse power or whatever rated horse power it is, that it will still be the same horse power if he reduces the speed down to 400 revolutions. Probably the engine he has reference to has to run about 1,000 or 1,200 revolutions to develop its rated horse power. If he puts on a governor and reduces the speed down to about 600 or 650 revolutions per minute I don't see anything to hinder him having an all-around farm engine at very little expense outside of the first cost of the engine, for many years to come.

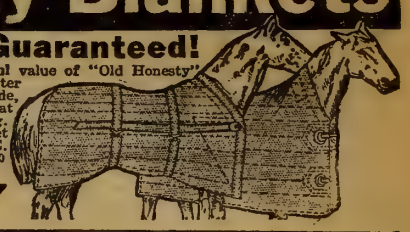
Ira W. Surritte.

Atchison County, Kan.

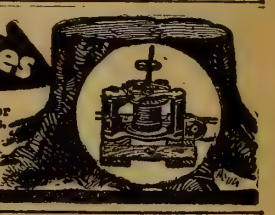
Farmers of the Northwest have a new source of supply in their movement to stock their farms with thoroughbred cattle, the new tariff measure operating in such a manner that the stock farms of Canada can be utilized for that purpose. About 260 pure-bred Short-horns from Emerson, Manitoba, are expected to arrive in Grand Forks Saturday.

THREE BIG PAPERS $1.25.
The Iowa Homestead, Twice-a-Week Republic of St. Louis, the biggest and best semi-weekly in the Southwest, and Farm Progress, a big semi-monthly farm paper, sent a full year for $1.25. Send orders to St. Louis Republic, St. Louis.—Adv.

Old Honesty Blankets
Wonders for Wear—Guaranteed!
Thousands of farmers everywhere know the wonderful value of "Old Honesty" Blankets. Built to wear—made with extra strong outer covering of heavy brown tent canvas—warm lining inside, quilted with 20 rows of lock-stitch seams—seams that can't rip or ravel. No other blankets wear nearly as long. Every one bears Guarantee Tag that warrants blanket to wear a full year—or you get a new blanket FREE. Extra size storm blankets, heavy kersey lining, $4. Other styles $3.50 stable blankets with 2 attached girths for $3.50, worth $5 from your dealer—or if he can't supply, write
BEMIS BLANKET CO. OMAHA, NEB.



Pull Out The Stumps
With The Hercules
All Steel, Triple Power Stump Puller
Biggest stump pulled in five minutes or less. Clears an acre of land a day. Makes your stump land money land. 30 days' free trial—3 year guarantee. Get our new book and special low price offer now.
Hercules Mfg. Co. 941 22d St. Centerville, Ia.



SHEEP.

ELK GROVE SHROPSHIRES
I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - - - LOGAN, IOWA

Golden Hoof Stock Farm
OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FOREST HILL STOCK FARM
A FEW real bargains left in Shropshire rams, including our flock ram. We now offer ewes bred, at prices that will look good to all contemplating purchasers. Lambs of both sexes. Write or call. Bargains in ewes for next 30 days or until surplus sold.
KAUFMANN BROS., R. 1, MOSCOW, IA.

Registered Oxfords
AND Shropshire yearling rams and ram lambs of the best of breeding. Priced right. Write or come.
W. H. HUNT & SON - GALT, ILL.

SHROPSHIRE RAMS AND EWES
YEARLING, two-year-old and three-year-old rams and ewes of all ages. Some are by imported sires. These are good animals and will be sold at fair prices.
C. J. WILKINSON, R. 2, COLFAX, IOWA

Registered Shropshires
34 YEARLINGS and twenty lamb rams. Call on or address, mentioning The Homestead,
S. Bennington's Sons, R. 2, Elkader, Iowa

POLLED DELAINE MERINO SHEEP
EXTRA large rams, also choice young ewes at ½ price.
POLAND CHINA HOGS, BIG-TYPE
Fall and spring boars at $18.00 to $20.00. Rams same prices. Order now and get the best.
F. F. & V. G. Warner - Bloomfield, Iowa

FORTY GOOD
ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes, sired by imported rams. The ewes also directly descended from imported ewes.
DAVENPORT & MACK. BELMOND, IA.

SHROPSHIRE SHEEP
I AM closing out my herd at cut rate prices on account of other business. 11 choice yearling rams, 2 two-year-old ram, and some ram lambs. They are heavy boned and well wooled. Low prices to close out. I am about sold out of ewes.
EARL BLOOM - BRIDGEWATER, IOWA

PRIZE-WINNING OXFORDS. Rams and a few ewes. Nothing better anywhere. Address G. W. Damrow, R. 3, Lincoln, Nebraska.

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Williard Miller, R. 2, Anita, Iowa.

REGISTERED SHROPSHIRE RAMS. All ages, best breeding. Express prepaid. Address E. N. Sterner, Agency, Iowa.

SHROPSHIRE RAMS Imported and home bred. Address James H. Heald, Tipton, Iowa

DATES FOR LIVE STOCK SALES.

Poland China Swine.

Nov. 11, R. C. Hollingshead, Russell, Iowa, sale at Charlton, Iowa.
Nov. 12, Mrs. August Gorder, Plattsmouth, Neb.
Nov. 18, H. F. Dodds, Florence, Neb.
Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheyodan, Iowa.
Jan. 24, Beall & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Iowa.
Feb. 3, Theo. Martin, Bellevue, Ia.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Iowa.
Feb. 6, Williams Bros., Villisca, Iowa.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, Henry Fesenmeyer, Clarinda, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 18, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 19, C. W. Phillips, New Sharon, Ia.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Iowa.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Nov. 10, John T. Higgins, Abilene, Kan.
Nov. 25, W. M. Sells, Indianola, Iowa.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 20, Wm. Zimmerman & Sons, Mc Nabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, Lake City, Ia.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Iowa.
Feb. 5, Swan & Ellis, Indianola, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 10, M. E. Merfield & Sons, Greene, Iowa.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Koenig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.
Feb. 24, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

Holstein-Friesian Cattle.

Nov. 11, T. A. Gierens, Walton, Neb.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Short-horn Cattle.

Nov. 19, C. E. Gibbs, Klemme, Iowa.
Nov. 20, Closing-Out Sale, A. H. Metier, Weldon, Iowa
Nov. 25, J. W. McDermot, Kahoka, Mo.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. D. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, Geo. H. Burge, Mt. Vernon, Ia.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.

Hereford Cattle.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Jan. 14, Henry Reimers, Gladbrook, Ia.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9, B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Imported Shire Mares.

Dec. 9, J. A. Sage, Ankeny, Iowa.
Dec. 11, Trumans' Pioneer Stud Farm, Bushnell, Ill.

Clydesdale Horses.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus.

Nov. 14, Marion C. Stone, Milan, Mo., at Kansas City, Mo.
Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 501 Washington Building, Madison, Wis.

FIELD NOTES.

Aberdeen Angus bulls are advertised for sale by Chas M. Russell, Carroll, Iowa, on page 35.

J. A. Sage, Ankeny, Iowa, breeder of Shire horses, announces a public sale to take place December 9th.

If you want a good immune Duroc Jersey boar, J. F. Kerns, Holstein, Iowa, is advertising them for sale at $25 and $35 on page 37.

I. J. Wilson, West Branch, Iowa, is now selling good Duroc Jersey spring boars at $25. See page 37 and send him your order.

Two good Percheron stallions and some good Hereford bull calves are advertised for sale by H. D. Clore, Lucas, Iowa, on page 33.

Forty-five head of immune Poland China boars are advertised for sale by C. H. Porter, Eagle Grove, Iowa, at $30 to $50 on page 38.

W. R. Adams, Fremont, Neb., buys raw furs of every sort and pays liberal prices for them. Write him for information asking for price list No. 53. See page 13.

V. W. Harms, Fairbury, Ill., invites the attention of discriminating buyers to the Percheron and Belgian stallions and mares that he is offering. See page 34 for advertisement.

Geo. T. White, Dallas Center, Iowa, has cholera immune Duroc Jersey spring boars for sale. He quotes reasonable prices, has quality pigs and guarantees satisfaction. See page 37.

Well-bred Duroc Jersey boars are advertised for sale by Sol Frank, Sioux City, Iowa, at $25 to $50 and he has very good ones. He can very easily fit you out with a good herd boar, and at a reasonable price.

Buyers of Hampshire hogs will be interested in the advertisement of Paul William Jahn, Manilla, Iowa, on page 32. Mr. Jahn's pigs have all been given the double treatment and are cholera immune. Write him for prices.

Jos. Shradel, Riverside, Iowa, has some Duroc Jersey May pigs, long, heavy-boned boars and gilts of good strains, which he is offering for sale to Homestead readers in his advertisement that appears on page 37.

M. P. Hancher, Rolfe, Iowa, is advertising fifty head of immune boars, sired by Smooth Wonder 2d, Chief Price Jr. and Chief Again Price on page 38. Read his advertisement and write him an order for one of these at once.

A recent note from A. Kool, Cordova, Iowa, advises us that he has added to his herd of Poland Chinas a fall boar sired by Big Orange and from a dam of Colossal breeding. This hog is to take the place of Jumbo now offered for sale.

On page 38 of this issue of The Homestead will be found the advertisement of F. J. McKeever, Ryan, Iowa, offering Tamworth spring boars for sale. These boars weigh from 150 to 200 pounds and Mr. McKeever is quoting them at from $20 to $25.

James Cockerton, Whiting, Iowa, advertises a splendid yearling Poland China boar by Big Wonder, for sale that he will take $60 for and twenty head of spring boars, big, lusty, big-boned fellows, that he will sell from $30 up. See his advertisement on page 38 and write him at once.

Clarence White, Linden, Iowa, will hold a public sale on the 7th of November, at which time he will sell the Poland China boar, Montrose 190187, a mature animal of choice blood lines, a reliable breeder and of high individual merit. Any additional particulars may be learned by addressing Clarence White, Linden, Iowa, as per advertisement on page 32.

Wonderful cures of various affections of horses are made by the use of Corona Wool Fat, an advertisement of which will be found on another page. While it is good for all cuts or bruises, it is particularly adapted to the cure and treatment of hard and contracted feet, mud fever, split hoofs, corns, grease heels, thrush, quarter crack, cuts, barb wire wounds, etc. Every can is sold under an absolute guanantee and it is no usual guarantee. The manufacturer believes he knows what his preparation will do. He backs it, we believe, by offering to send a can of Corona Wool fat to any reader of this paper with the understanding that it may be paid for after twenty days' free trial if it proves satisfactory. If it does not there is no charge. To take advantage of this offer fill out the coupon on page 40 and forward to Corona Mfg. Co., 1101 Corona Block, Kenton, Ohio.

Forty choice Shropshire rams are offered for sale by Davenport & Mack, Belmond, Iowa. One imported Cooper ram is listed in this bunch. Write the above firm about these rams at once and if you want one or a bunch you had better get busy with your order. When writing them kindly mention The Homestead.

An innovation in the way of reading lamps is the Air-O-Lite which is advertised on page 21 of this paper. It is guaranteed to be economical, safe and a splendid light. Agents are wanted to sell this light. It is reasonably cheap and big profits may be secured. For terms and territory address Guy Hunter, 351 Twelfth St., Des Moines, Iowa.

Frank Kean, Mount Pleasant, Iowa, in furnishing copy for his advertisement offering Duroc Jersey boars, gilts and brood sows for sale, writes: "I have a few spring boars and gilts and tried sows on which I am making a low price to move them. Those wishing good Duroc Jerseys should see them or write me for further particulars." See advertisement on page 37.

Silas Igo, Indianola, Iowa, is offering some splendid Duroc Jersey boars for sale at $35 each and the first man who sends an order gets the best of these. Don't delay, but get to him with your order right away. He also offers a splendid breeding boar for sale in a son of the grand champion, Crimson Wonder Again, and old H. A.'s Queen. Write him right away about these boars. See page 37.

T. A. Stevenson, Shannon City, Iowa, breeds Chester White hogs and is offering spring pigs of both sexes for sale. He writes that he has the finest lot he has ever raised and that he has been raising the best hogs of the breed that money would buy for the last twenty-five years. Write him for prices. Address T. A. Stevenson, Shannon City, Iowa. See advertisement on page 36.

W. W. Scott, Calamus, Iowa, is proprietor of the Cedar Lawn herd of Duroc Jersey hogs. He has spring pigs of both sexes for sale and advertises them on page 32. These are the get of Ensign 2d, B. & C.'s Perfection and Proud Ohio Chief 3d, each of which, it is unneccessary to say, represents a highly popular strain. For strictly good stock at reasonable prices write to W. W. Scott, Calamus, Iowa.

Geo. M. Fox, Dallas Center, Iowa, who breeds high-class Berkshire hogs, on page 35 announces that he has for sale a herd boar and a number of spring pigs. This hog is Michigan's Best Boy, a son of Lord Lee 56th, and from a dam whose lines of breeding are equally as strong and highly popular. The hog has size, big-type, and is in excellent condition. For prices or other information write to the address named.

G. H. Tutt, Marathon, Iowa, breeder of Chester White hogs, well known to readers of this paper, advises us that his herd has successfully gone through the double treatment and may now be considered immune and in good health. He has for sale in particular a choice lot of spring boars that have size and quality enough to head good herds, and so represent the most prominent blood lines. Write him for any further information.

B. B. McAlister, Blakesburg, Iowa, is advertising Duroc Jersey boars and gilts for sale on page 32. They are in healthy condition, but are not carrying fat. They will weigh from 150 to 200 pounds and are sired by such boars as Chief Jewel, Commodore Chief and a son of I Am McNeil's Model. The dams are Model Queen, Flossie and others. Mr. McAlister is making attractive prices on these pigs. When writing him mention The Homest ad.

In the last issue of this paper H. F. Funke, Greenfield, Iowa, advertised that he had for sale a select herd of Short-horn cattle. In this advertisement a statement was made that among the cows in the herd is Lavender Bud that cost him $25. Of course, this amount is wrong. The printer made a mistake. The figures should have been $625. For particulars with reference to the animals to be sold write to the address above named. See the advertisement on page 35.

Geo. T. White, Dallas Center, Iowa, is offering for sale some extra good Duroc Jersey boars of spring farrow. They have plenty of size and good quality. They have good make-up, being strong on foot and with well-arched backs. As to blood lines, they carry the most popular strains of the day. Mr. White will be glad to quote prices on them. He has lately added to his herd a herd boar by Golden Model 2d and from a dam of the strong Crimson Wonder blood.

G. F. Marshall, breeder of Poland China hogs, Monroe, Iowa, writes in a letter of recent date as follows: "I want readers of The Homestead to know that my herd has not had any sickness, but is perfectly safe. I have had all my hogs immuned. I have three as good fall yearlings herd headers as can be found. They are big and smooth. I shipped one to Illinois and the breeders over there who saw him say he is great. The other three are just as good. They are sired by Giant King. I have three fall yearlings sired by Jumbo and out of the dam of Giant King that are extra good. I also have spring boars by Big Bone, Big Knox, and Columbus. I have fifty sows, mostly fall and spring yearlings, that will be sold, bred or not as purchaser may wish." Mr. Marshall invites personal inspection of his herd. Address inquiries to Geo. F. Marshall & Son, Monroe, Iowa.

Plastic stove lining which is advertised on page 21 is a preparation which can be used for backs or linings for any cook stove or heater. It hardens when the fire starts and outlasts iron linings many times. It is also a means of saving fuel. Note the advertisement and send orders to Plastic Stove Lining Co., 1349 W. 35th St., Chicago, Ill.

An interesting announcement by B. W. Little, Janesville, Wis., breeder of Short-horn cattle and Duroc Jersey hogs will be found on page 36 of this paper. Mr. Little's herd of Duroc Jerseys is one of unusual excellent. His foremost boar is Ohio King 88193, an illustration of which will be found on page 30. Ohio King is by Albany Again and his dam was Cherry Chief Girl, a full sister to the noted Cherry King. For prices or description of animals write to B. W. Little, Janesville, Wis.

America's best fashion guide is the expression used to describe the Philipsborn Style Book advertised on page 21 of this paper. In addition to being a style book this publication is also a catalog of bargains in every variety of clothing and furs for ladies. Note the extraordinary low prices quoted on a few items in the advertisement. The style book is a means of economy, as well as enabling one to dress correctly. Get a copy of it. It is sent postpaid to any address on request to Philipsborn, Dept. 109, N. W. Corner Van Buren & Peoria Sts., Chicago, Ill.

Cushman farm engines are advertised on page 8. The Cushman is the original binder engine and its excellence in that feature has been the means of bringing it into the highest popularity as an all-purpose farm engine. The little four horsepower engine illustrated in the advertisement is guaranteed for ten years. The manufacturers say that it does everything that any other four horsepower engine can do. It is particularly well adapted to household uses, such as running the washing machine and cream separator. For catalog write to Cushman Motor Works 2029 N Street, Lincoln, Neb.

Grinding feed is only one of the measures which may be taken to increase its digestible condition. The Quaker City mills advertised on page 12 grind quickly and with any degree of fineness. These mills are made in twenty-three sizes, ranging from the little hand grinder to that which requires a twenty horsepower engine. They are shipped to any reader of this paper with freight prepaid on a ten days' trial. They are guaranteed to grind corn separate or mixed and from the finest to the coarsest grains. For book of valuable information on the subject of grinding and description of the Quaker City mills address A. W. Straub Co., Dept. G, 3723 Filbert St., Philadelphia, Pa.

A. Kool, Cordova, Iowa, announces on page 39 that he is now offering for sale his herd boar, Jumbo 185275. This is a two-year-old hog that Mr. Kool has used as long as he can advantageously, so he now wants to sell him and will quote a reasonable price. He is a big fellow and stands in the big-type class from every point of view. His sire is The Big Orphan, son of Big Columbus and grandson of Big Bone. His dam was a daughter of A Wonder and his grandam a daughter of SurpriseWonder 5th, so it will at once be recognized that the blood is that which has made fame for both the Miller and Mouw herds. The hog will weigh nearly 900 pounds. For particulars write to A. Kool, Cordova, Iowa.

Live stock men who have given the subject careful consideration realize that animals do best in winter when provided with comfortable quarters and protection from extreme weather. The principle applies just the same to the food stuffs given them. Feed which is icy cold or freezing water both tend to decrease the vitality of the animal and increase the amount of feed required to keep up a normal condition. For this reason the use of a good tank heater which provides water of an agreeable temperature is a money saver on every farm. The Cow Boy tank heater advertised on page 11 has merits peculiar to itself, all of which may be learned by sending for descriptive folder, addressing request to The Wills Manufacturing Co., 30 Seventh St., Mendota, Ill.

It is a pleasure to see and a greater pleasure to own a fine working herd of dairy cattle. Such a herd is owned by S. W. Dexter, Kenosha, Wis. For thirty years the Dexters have been breeding Guernsey cattle. They have always used pure-bred bulls, so that their herd is practically of pure Guernsey blood, although not subject to register. They have had some very famous bulls in their herd, for they have not spared time or money when looking for a bull of great dairy breeding. A recent herd bull is Shamrock of Day 16350, a son of Imported Pride of Day, the celebrated island bull. His dam was Imported Shamrock of Les Vesquesses VII., a cow of great ability. The present herd bull is Lillian's Kedge Anchor 20361. He was sold for $25 when ten days old. He is not yet three years old, but weighs 1,500 pounds. His sire was Kedge Anchor of the Glen and his dam, Imported Lillian of the Boullion. Mr. Marsh, of Waterloo, Iowa, refused $1,200 for her. The females of the herd are of fine dairy conformation, and excellent performers at the pail. Private tests show some fine records, and is additional proof of the value of good breeding. There are several bull calves for

sale from these cows and sired by the above bulls. See advertisement on page 19 of this issue of The Homestead.

M. T. Love, Garner, Iowa, is offering for sale an excellent yearling Guernsey bull and one four months old. He is quoting remarkably low prices on them. For further particulars or description write to the address named. See advertisement on page —.

Readers of this paper who want the biggest and best Poland Chinas of either sex are referred to the advertisement of W. F. Drummy on page —. He has spring pigs of the big, smooth make-up, easy feeders and excellent lines of breeding. They are sired by Big Bone Wonder (a grandson of Big Bone, the famous Gallman hog) and Wonder D. (a son of Fesenmeyer's A Wonder.) The brood sows, dams of the pigs offered for sale, are by Big Bone, Long Wonder 2d, Long Hadley and Chief Jumbo. These pigs will weigh 160 pounds and upward and will be sold at from $25 to $30 each. There has been no cholera in the locality. The first check gets the choice of the lot. Address W. F. Drummy, Ryan, Iowa.

The fact that a million copies of the Studebaker almanac are distributed yearly is the best testimonial as to its value. This almanac has been popular for ten years or more and each year shows a growing popularity. It is invaluable to the farmer because of its wealth of hints on dairying, seeds, fencing, fertilizing, fruit, stock raising, grain growing, implements, legal advice and general household and farm notes. In addition there are the usual monthly tabulations and weather forecasts. Of course the publication of this almanac is auxiliary to the business of the Studebaker Company in the manufacture of farm vehicles. Copies of the book may be obtained by addressing a request to the Studebaker Co., South Bend, Ind.

Smith Bros.' Polands.

Smith Bros., Lawler, Iowa, are advertising Poland Chinas on page 38. They are sired by Big A Wonder an eighteen-month-old boar weighing 725 pounds. This boar has a ten and three-quarters inch bone and breeders who have seen him say that he is as good a hog as they have ever seen. The dams of the boars they are offering weigh up to 700 and 800 pounds. The pigs they are offering will weigh from 200 to 275 pounds, many of them having an eight-inch bone and plenty of quality along with it. This is an opportunity to get a good boar pig cheap as they are pricing these pigs worth the money. Write for prices mentioning The Homestead.

Jones' School of Auctioneering.

The winter term of the largest and oldest school of its class will open December 8th, the Monday following the International Live Stock Exposition, and students will be given the benefit of four days' free admission to the show. The Jones school fits students to successfully pursue the auctioneering profession, and its graduates are now operating in all sections of the country, many of them making incomes that run well into many thousands of dollars each year. Full particulars regarding this thorough school are contained in the handsomely illustrated catalog, which will be sent to any address if you mention this paper, and address Jones National School of Auctioneering, 14 North Sacramento Boulevard, Chicago, Ill. The advertisement appears on page 35.

Clean Seed Means Large Yields.

It is with a great deal of satisfaction that a farmer looks out over his fields of grain and notes the uniformly well filled heads which are naturally produced as a result of cleaned and graded seed. When all the dirt, trash and bad seed are taken out it is reasonable to expect that the yield per acre will be larger than it otherwise would have been, the clean seed having been uniformly distributed over every piece of ground. On page 11 of this issue will be found an advertisement of the Maytag Hawkeye Grain Grader & Cleaner, manufactured by the Maytag Company, 400 North St., Newton, Iowa, They say of it: "Grade and clean your seed wheat, oats, any grain, with a Maytag Hawkeye Grader and Cleaner; and if you can tell us, after harvest, that it did not make an increase in your yield —more than enough to pay for the grader—we'll return your money." We would suggest that our readers see their dealers or write to the factory at Newton for further information.

S. W. Swanson's Last Call.

On November 7th, at Red Oak, Iowa, S. W. Swanson will sell fifty head of Duroc Jersey boars and sows, and he will have a nice offering for the boys at this time. There will be fourteen fall boars in the sale and thirty-six spring boars. The remainder will be sows and gilts. This is one of the last real hog sales of the season and will afford a good chance for late buyers to pick up either a good young male or a few head of sow stuff. Mr. Swanson has been buying quite a lot of good stuff to place in his herd the past couple of years and he is now better fixed than ever to offer the breeders and farmers high-class Durocs. The herd is strong in the blood of the Col. Crimson Wonder, Cross and the stuff is making good. For some time Mr. Swanson has kept at the head of his herd the big boar, Model King. This hog is a son of Hogate's Model, a champion boar at the Nebraska State Fair a few years ago. The get of this boar are the big, strong-boned kind with proper care and have a right to be as Model King is one of the big boars. The new blood in the herd is the get of Col. Gano, King The Col., Crimson Wonder Again and a few others of equal worth. Mr. Swanson expects no sensational prices and red hog buyers whether breeder or farmer will find this a good place to select their stuff. Write Mr. Swanson for a catalog at once and when sending for it address him at Newton, Iowa, but remember the sale will be held at Red Oak, Iowa.

Holsteins for Sale.

On page 18 C. E. Veak, Essex, Iowa, advertises high-grade Holstein Friesian cows and heifers for sale. These range in age from two to five years, and are well along in calf. He is pricing these where they will sell. Write him at once and mention The Homestead.

White-Agan Poland China Sale.

On Saturday, November 1st at Malvern, Iowa, Georg H. White, of Malwill sell forty-five head of boars and sows and these boys are putting up a splendid offering. Remember this sale will be on Saturday of this week at Malvern, Iowa, and it will be a good place to buy boars and sows of the large-type Poland Chinas.

Immune Poland China Boars.

On page 39 L. R. McClarnon, Braddyville, Iowa, advertises thirty head of immune Poland China boars for sale sired by the great boar, Colossale, and he is selling these at $35 each as long as they last. They will weigh from 250 to 300 pounds, ten of them will weigh 33. White Mr. McClarnon at once about these and mention this paper.

Barrs' Poland China Boars.

If you want a good Poland China boar write W. H. Barr & Son, Elliott, Iowa. They are offering a good two-year-old for sale in Mastodon Prospect and he is a son of that splendid boar, B.'s Mastodon. They have three good fall yearlings and twenty spring boars that they are offering for sale. The spring boars they are pricing at $35 each. Write them at once and mention The Homestead. See advertisement on page 38.

Lonergan Offers Herd Boars.

The Poland China man that wants to buy a good herd boar should get in touch with D. C. Lonergan, Florence, Neb. He is offering to sell Big Omaha, a two-year-old boar by Big Victor and out of Alm's Choice, King Giant a son of Prospect 2d and out of a Giantess sow, and Metal Hop, a son of I Am Big Too and out of a Bell Metal sow. These are three splendid herd boars and he will sell them right. He also has eighteen good spring boars on hand that are for sale, and he will sell twenty head of splendid gilts at private treaty. If you are interested in any of these write Mr. Lonergan and kindly mention The Homestead.

Percherons and Herefords For Sale.

On page 33 H. D. Clore, Lucas, Iowa, advertises one splendid two-year-old Percheron stallion for sale and one good yearling and he offers the two of these for $1,000 if taken soon. Here is a decided bargain for the farmer or the breeder who wants to buy a couple Percheron stallions. There is good money in these horses for some man to buy and sell again. He also offers some good Hereford bull calves for sale. Write him at once and mention The Homestead.

De Kalb's Hampshire Sale.

At Council Bluffs, Iowa, on November 4th, H. D. De Kalb, of De Kalb, Iowa, will make a public sale of sixty head of the best Hampshire boars that have ever been listed for a sale since this breed came so prominently into public notice. Harve De Kalb has today one of the very best herds of Hampshire hogs in this country and he has made the highest priced sale that was ever recorded for this breed. From this herd also comes the highest priced sow that was ever sold at either public or private sale, so you must remember he has a herd that all the boys are looking up to. He is selling twenty-five head of yearling boars in this sale that are sired by his world-renowned boar, Major, that stands today as one of the greatest breeding boars of the Hampshire breed. Some of these boars are out of or are closely related to that highest priced sow we spoke of above, and these are good enough to head any herd. Included in this sale will be De Kalb's King 50th, a son of the great and only Major and out of Nellie Aylor's Best, and he is unquestionably the best boar that has ever been offered in a public sale. Here is a boar that the best breeders should go after to head their herd. He is also listing two of his best herd boars and twenty-five head of spring boars. If you have not got the De Kalb catalog you ought to have it right away. Write H. D. De Kalb, De Kalb, Iowa, for it at once and kindly mention this paper. Remember the sale will be held at the Kiel Barn, Council Bluffs, Iowa, on November 4th. Bids sent to our M. T. White, representing this paper in care of Mr. De Kalb will be properly looked after on day of sale. On day of sale you can wire Mr. White in care of Mr. De Kalb and it will reach him in time for sale. See advertisement on page 30.

Ficke's Duroc Sale.

Hugh M. Ficke, Long Grove, Iowa, will sell thirty-six head of Duroc Jersey boars at public auction on November 11th. All are spring boars with two exceptions. Some of the spring boars will weigh 300 pounds and all have plenty of size for their age. The entire herd has had the simultaneous treatment and therefore is cholera immune. Write Mr. Ficke for a catalog and arrange to attend his sale.

Funke Closing Out Short-horns.

The breeder of Short-horns who wants to buy a select lot of Short-horns should read the advertisement of Henry Funke, Greenfield, Iowa, on page 35. He offers twenty-eight head of richly-bred Scotch cattle as good as you will find anywhere in the West. There are not better, but as he has sold his farm he must close out the herd. Here is a great bargain for somebody. When writing him kindly mention The Homestead.

Polled Durham Bulls For Sale.

Those of our readers who want Polled Durham bulls should write or go and see W. H. Barr & Son, Elliott, Iowa, whose advertisement appears on page 38. They are offering two good young Polled Durham bulls for sale and their splendid herd bull, Crowder, that is one of the best bulls in the state. This bull was bred by John Robinson, of Harlan, and has since been used in the Barr herd with the best of success. He is a three-year-old coming four and is a splendid breeding bull. They also have one nice Short-horn bull for sale.

Iowa Holstein-Friesian Sale.

As will be noted in the advertisement on page 18 the combination of Iowa breeders of Holstein-Friesian cattle announce a public sale to take place at Waterloo, November 17th and 18th. They include matured cows, heifers and bulls. All have been given the tuberculin test. They are such animals as both farmers and breeders can use to advantage. Some of them are cows with official records of up to 600 pounds of butter in one year. Others are descendants of equally great producers. Catalogs giving complete particulars may be had by addressing a request to Iowa Holstein-Friesian Sale Co., Waterloo, Iowa.

Hancher's Immune Boars.

Those of our readers who are wanting immune Poland China boars should read the advertisement of M. P. Hancher, Rolfe, Iowa, on page 38. He has a grand lot of big, lusty, spring boars sired by Smooth Wonder 2d, Chief Price Jr., Chief Again Price, and out of his most famous big-type sows. Sixteen sows in the Hancher herd farrowed 161 pigs last spring, an average of over ten to the litter. If you want an immune boar from such litters write Mr. Hancher at once and mention The Homestead.

Chester Whites of Merit.

Elsewhere in this paper our readers will find an engraving showing the Chester White hog International Boy owned by J. L. Barber, of Harlan, Iowa, This hog stands at the head of Mr. Barber's herd and is now offered for sale. The picture shows very clearly that he is a hog with remarkably good proportions and excellent development, and a gentleman who has visited many herds insists that he is a splendid show prospect. Inquiries concerning him should be addressed to J. L. Barber, Harlan, Iowa. See page 13.

Walker & Son's Polands.

Those of our readers in search of a rarely choice Poland China boar will do well to buy from a herd with a reputation for producing the good ones, and from a herd that turns out a product that can be depended upon. Such a herd is owned by Thos. F. Walker & Son, Alexandria, Neb. This herd is one of the oldest in the state, is one of the best known in the entire country, and that has produced boars that have done a great work in all the leading hog states of the Union. Walker & Son still have some choice boars by the great Blue Valley and also some by Blue Valley's Orange by Big Orange. This last named boar is the top boar in the James sale a year ago and was sought by the best breeders in the country. If in search of Polands that are big, that are good producers and that have quality, write these gentlemen. They have what you are looking for. Kindly mention The Homestead. See page 39.

Registered Draft Horses.

E. P. Hamilton & Sons, Garden Grove, Iowa, announce on page 34 that they have for sale a number of road and draft stallions and mares at reasonable prices. Their line of draft horses includes Percherons, French Draft and Belgians. The farm is located less than three miles from Garden Grove and LeRoy, and may easily be reached from either place.

McDowell's Sale November 1st.

On Saturday, November 1st at Chariton, Iowa, E. E. McDowell, will sell forty-five head of his large-type Poland China boars and sows, and he is selling a splendid lot. There will be thirty head of large, lusty spring boars and fifteen choice gilts in the sale. Remember this sale will be held at Chariton, Iowa, on Saturday of this week, so go there if you want some good bargains.

Hanks & Bishop Offer Duroc Boars.

Hanks & Bishop, New London, Iowa, have been enjoying a good trade in boars this fall and only have twenty left and among them are some of the best ones they raised this year. These boars will weigh around 200 pounds and are sired by three great herd boars, Model Wonder, Wonder's Model and Proud Col. These pigs are of the same breeding as the winners that this firm has shown at the Iowa State Fair during the past five years. They are making prices very reasonable in order to move these boars and it would be to the interest of anyone needing a boar to write them at once, mentioning The Homestead. See page 37.

French's Belgians.

R. F. French, Independence, Iowa, is offering high-class imported Belgian stallions and mares for sale on page 34. Mr. French won several important prizes at the recent Iowa State Fair which shows the high quality of the stock he handles. His horses are doing fine at the present time and the mares are showing safe in foal. He has twenty head of imported mares that are safe in foal to the best imported stallions. Among these mares are his state-fair winners as well as several prize winners in Belgium. His stallions are doing fine and those he had in the stud proved very sure. Write him your wants mentioning The Homestead.

Iowana's Champion Boars.

The boars at the head of the Iowana herd of Berkshires, Rival's Champion and Baron Premier Rival, are both champions, the latter named boar having carried away the honors at this year's American Royal, at which show entries from the Iowana pens were successful in all the classes. The Iowana Berkshires have been one of the potent factors in the Berkshire shows at the majority of the big fairs this fall, a fact that speaks strongly for the superiority of this herd. Boars and gilts of spring farrow, all of them cholera immune, are for sale at the right kind of prices, quality and breeding considered, and all correspondence addressed to the manager, J. L. Thatcher, Davenport, Iowa, will receive prompt attention. See page 35.

Sealock's Immune Chester Whites.

The other day we called on C. F. Sealock, Neola, Iowa, one of the younger breeders of Chester Whites, who is busily engaged in establishing a good herd, and he is now offering a few good boars for sale. He has a most excellent hog at the head of his herd in Combination Again, a son of the great and only boar, Combination, and he is out of a daughter of Iowa Recorder. This boar is one of the really choice herd boars today in the state, and is one of the best sons of old Combination we have ever seen. He is offering a good yearling by this boar, and he is out of Miss All Right by Iowa Protection. This boar will make a good hog and the first man that sends $40 will get him. He also has a number of good spring boars and these are sired by Teddy B., and Max, and on these he is quoting prices of $25 if taken soon. These boars are all immune and are cholera proof. If you want one of these write your order to Mr. Sealock and kindly mention this paper. See page 36.

A Noted Holstein Herd.

One of the most noted Holstein breeders of Wisconsin, Tompkins Wright, Waupun, has developed some very remarkable animals. Mr. Wright has but a small farm and a comparatively small-sized herd. He has not won his reputation on the largeness of his herd, but by the records which they have made as individuals and as a herd. He is a great believer in official and semi-official testing, but says that the seven-day records are so easy of inflation by forced feeding, that it cannot be taken as the true criterion of a cow's ability. With this in mind he has conducted yearly tests for many years on nearly all the milking females in his herd. A bull, Leland Sunbeam Korndyke 86951, which he has sold recently, has the peculiar distinction of having yearly records back of him for five generations. His full sister, Leland Sunbeam Perfection, under the most unfavorable conditions made 14,500 pounds of milk and 565 pounds of butter at two years of age. Five of his sisters hold yearly records which average 11,667.1 pounds of milk and 520 pounds of butter. His dam, Leland Sunbeam, as a senior three year old made 17,643.4 pounds of milk, 716.8 pounds of butter. His grandam, Leland Maid, in one year made 19,143 pounds of milk and $14.20 pounds of butter. His great grandam and great

NEXT WEEK'S SALE PROGRAM

Monday, Nov. 3	Poland Chinas, Obadiah Prettyman, Fairfax, Mo.
Tuesday, Nov. 4	Aberdeen Angus, M. A. Judy, Mgr., South Omaha, Neb. Hampshire boars, H. D. De Kalb, Council Bluffs, Iowa. Poland Chinas, Chas. W. Phillips, New Sharon, Iowa.
Wednesday, Nov. 5	Poland Chinas, H. O. Williamson, Herman, Neb. Durocs, S. W. Swanson, Red Oak, Iowa. Durocs, J. R. Blackburn, Ord, Neb. Holsteins, Ayrshires, Duroc and Hampshire swine, Wm. Galloway, Waterloo, Iowa.
Thursday, Nov. 6	Poland Chinas, L. B. Williams & Son, Sciola, Iowa. Holsteins, Ayrshires, Duroc and Hampshire swine, Wm. Galloway, Waterloo, Iowa.
Friday, Nov. 7	Short-horns, S. A. Nelson & Sons, Malcolm, Neb. Poland Chinas, S. A. Nelson & Sons, Malcolm Neb.

great grandam, Leland Pride Echo, and Leland Pride, made 555.5 pounds of butter and 471 pounds of butter respectively, which at the time they were made were wonderful records, as at that time intensive dairying was not understood as it is today. His dam won the Hoard's Dairyman prize in February, 1910, and his grandam won it two months before in December, 1909. His great great grandam, Alacarta 2d Rose, is also grandam of Pontiac Alacarta, the $10,000 bull. The breeding on the sire's side is of Johanna Korndyke strains, while on the dam's side it is Leland Alacarta breeding. This bull is being advertised for sale. When writing Mr. Wright kindly mention this paper.

Naiman's Boars Now Immune.

John L. Naiman, Alexandria, Neb., is now offering readers of this paper immune Poland China boars and in his letter to us he says that he will make good any boar that dies of cholera. This is a very strong guarantee and readers of this paper, that have been bothered with sick hogs will find that here is about what they have been looking for. Mr. Naiman also offers the herd boar, Naiman's Expansion, one of the best Expansion boars that can now be found. He is a sure breeder and a sire of the right sort of stuff. These boars should sell rapidly from now on, and we would suggest that those that are interested write without delay. Kindly mention this paper when you write. See advertisement on page 39.

Last Call for Blackburn's Sale.

The sale of Durocs that will be made by J. R. Blackburn, Ord, Neb., on November 5th, is a sale that it will pay to attend if in search of some choice Durocs. They are all immuned and of the very best of breeding, and individuality. We have described these boars in detail in The Homestead of previous issues, and no doubt most breeders have the catalogs ere this, but we are going to add that this being one of the last sales of the season where a high-class lot of stuff will be offered, it will be a good place to spend a day. The boars are nearly all sired by Crusader Col. by Proud Col. and he was the champion bear at Sioux City a couple of years ago and a full brother to the champion of Iowa, Freed's Col. There are about six boars in this offering that are really choice enough for a top herd of pure breds, and the remainder are toppy boars for farmers' use. Many breeders will buy poorer boars than the ones mentioned that are suitable for farmers, but we want to say that those looking for a really top boar will find a half dozen in this sale. If not attending, send bids to J. C. Price, representing Homestead. See advertisement on page 36.

Grain Sprouter Valuable to Poultry Raisers.

All poultry raisers know the value of green food for poultry, but it is said that sprouted oats have many advantages over any other green food as an egg producer and cheap feed provider during the winter months when eggs are highest in price and the greatest profit from poultry should be obtained. It is also claimed that sprouted oats stimulate greater activity among the birds, thus increasing the fertility in winter eggs, enabling poultry raisers to hatch a higher percentage of early chicks. In this issue on page 20 appears an advertisement of the Successful Grain Sprouter, manupfactured by the Des Moines Incubator Company, 586 Third St., Des Moines, Iowa. Their literature indicates that this sprouter is entirely different from any other and seems to have points of exceptional merit. It is built in sections which enables the poultry raiser to purchase the base and one or two sections at first, and then later on, when the requirements demand it, one can increase the capacity for green feed by purchasing additional sections. We believe our readers will find it advantageous to secure additional information on this new green poultry food producer and we suggest that they write the Des Moines Incubator Company at the above address.

Jos. Rousselle & Son's Horses.

The writer recently called on Jos. Rousselle & Son, Seward, Neb., and were pleased with the fine lot of horses that we saw on our visit. These gentlement are natives of the old country, of France to be exact, and they surely understand the Percheron and Belgian situation. They are able to buy cheaply, on account of knowing the people and where to go to find the good horses and, of course, a native countryman is able to make better deals than one from another nationality would be able to effect. They have a very fine lot of horses on hand at this time, and while they have sold several, they have not as yet topped the bunch. Homestead readers looking for a real toppy colt will be able to find what they are looking for in a toppy two year gray. He is one of the best horses of his size that we know of. Those that are in search of a real big one with lots of quality will be pleased with a big black yearling. He is one of the best horses of his size that we know of. Those that are in search of a real big one with lots of quality will be pleased with a big black yearling. He is one of the best yearlings that we have seen in a long time. He is sound all the way through and the making of an immense horse and will have a lot of quality at maturity. This black colt will make a good horse for someone that will have pure-bred mares to breed. A pair of real classy Belgian stallions are on hand, one a sorrel and the other a bay and while two types, they will each find admirers. Rousselle & Son are very particular to import none but sound horses, and they absolutely guarantee everything they have for sale. These gentlemen say that they will save buyers some money on a good horse this season, and the way they have been selling them is pretty good evidence that they do it. If interested, kindly mention The Homestead and address as above. See advertisement on page 33.

STONE'S GREATEST
ABERDEEN ANGUS CATTLE SALE
WILL BE HELD IN LIVE STOCK SALE PAVILION
KANSAS CITY, MISSOURI, FRIDAY, NOV. 14, '13

50 Head: 9 High-class Bulls, 31 Superb Females. 50

THE nine bulls are good, a Trojan Erica and a K. Pride are sure herd headers. There is not an inferior bull in the lot. Twenty-one cows, nearly every one with calf at foot and rebred. They are the kind that produce top stuff. Nineteen two-year-old heifers all sired by my K. Pride herd bull, Kissinger 141961. There has not been offered in recent times such an array of females. There will be several K. Prides, daughters and granddaughters of the grand old Imp. Pride of Gartley 2nd, the foundation of my K. Prides. A nice bunch of Trojan Ericas, four daughters and granddaughters of Imp. Eppy of Finlarg, the foundation of my Trojan Ericas. Four daughters and several granddaughters of the good old Imp. Joyful Girl of Theakston, the foundation of my Lady Idas. (Chas. Escher, Jr., says she is one of the best Lady Idas that ever crossed the water.) Daughters and granddaughters of Imp. Abbess of Benton 4th, the foundation of my Abbess tribe and a nice string of Easter Tulloch Duchess, the kind that make good. Kissinger, my present herd bull that is the sire of all the young cattle, will be at the sale so you may see their sire. Send now for catalog. If you want good reliable cattle this will be your best opportunity. Address mentioning The Iowa Homestead.

MARION C. STONE - - - MILAN, MISSOURI

Cols. Reppert and Graham, Auctioneers.

Prettyman's Big-Type Immune Poland China Sale

7 Fall Boars
23 Spring Boars
3 Yearling Sows
5 Fall Yr. Gilts
12 Spring Gilts

Fairfax, Mo., Monday, Nov. 3, 1913

KING LONGFELLOW 57342 by Pawnee Prince, he by Pawnee Lad and Orange Wonder 65443 by Big Orange, are the sires. All are good and from high-class sows carrying the blood of Johnson's Chief by Chief Tec. 3d, Grand Look, Max's Dude, Pawnee Lad and Big Prospect. Write now for catalogue. Cols. H. S. Duncan and Bradfield, auctioneers. A. T. Cole, representing The Homestead.

Obadiah Prettyman - - - - Fairfax, Missouri

Lefebure's New Belgians.

Henry Lefebure, Fairfax, Iowa, has been closely identified with the improvement of the Belgian horse in America for twenty-eight years. No little amount of the present popularity of the Belgian is due to Mr. Lefebure's exploiting the excellent draft qualities of his favorite breed. He has always handled the Belgian horse almost exclusively and has probably imported and sold as many Belgians as any single importer. At the St. Louis World's Fair his Belgians were the heaviest winners. Mr. Lefebure is situated in such a manner that he has reduced the cost maintaining his business to the minimum as he has four farms all adjoining and raises to a large extent all the feed consumed by his horses. He gives the buyers the benefit of this feeding and can sell good horses as low as anyone. The horses are kept on the farms and the imported mares do all of the farm work besides raising colts each year. Each year Mr. Lefebure's increasing trade makes it necessary for him to import more horses. His fall importation of a hundred head have arrived and now can be seen at his barns. The horses are beginning to recover from the effects of the shipment and are ready to show prospective purchasers. This year Mr. Lefebure purchased twenty Percheron stallions and can supply the wants of anyone wanting really high-class Percherons. His Belgians are the best lot that he has ever imported and are a credit to his ability as a judge. The advertisement on page 34 gives the location of the farms and also states that a handsomely illustrated catalog will be sent free to those applying for same. It would be to the interest of anyone wanting a good Belgian or Percheron stallion to write Mr. Lefebure for particulars kindly mentioning this paper. See puage 34.

L. B. Williams & Sons' Sale.

On November 6th, at Sciola, Iowa, the first town north of Villisca on the Atlantic, Northern & Southern railroad, L. B. Williams & Sons will make their annual sale of fifty head of their large-type Poland Chinas and this firm always sells a good offering and one that the breeder and the farmers always go after. They are selling thirty-five boars in this sale and the remainder will be sows and gilts. There will be twenty-five big lusty spring boars and ten fall boars in this sale and they will be the kind that are bred along the very best large-type lines. They have been using W.'s Quality, a son of Blue Valley Quality, and Orphan Wonder, a son of The Big Orphan at the head of these herds and they have been getting them a splendid line of boars and sows that any of our best breeders can use. They are selling a good tried sow in this sale and she is a daughter of that well-known boar, Big Wonder, that for years did so much at the head of the Hanna herd at Corning, Iowa. In last week's issue of The Homestead we gave a detailed list of the boars and the sows that Mr. Williams and his sons will sell in this sale, and we will not repeat it this week. We will say this about this herd that it is one of the oldest of all the large-type herds in southern Iowa and a lot of the very best have come from this herd in times gone by. They will have some grand, good boars of fall and spring farrow in this sale and there will be enough new breeding for those old customers who have bought before. They are and have been sticklers for the big-type Polands and that is the kind they are selling. If you want their kind make it a point to be at their sale on November 6th. In writing them for a catalog address L. B. Williams & Sons, Villisca, Iowa, but remember the sale will be held at Sciola, Iowa. M. T. White will represent The Homestead at the sale and will care for any bids sent in his care.

HOMESTEAD REACHES FARMERS AND BREEDERS

WM. KEEP, of Atlantic, Iowa, breeds Poland China hogs and advertises them in The Iowa Homestead. Under recent date, he writes with reference to this advertising, saying: "I take the liberty of writing to advise you that my crop of spring boars are great, big, growthy fellows and now ready to ship. I do not think they will last long with the help of the best friend a breeder ever had—The Iowa Homestead. It surely reaches farmers and breeders who want good ones and are willing to pay for them. I have tried several other mediums, but nearly all my inquiries start this way: 'I saw by The Homestead that you have some good boars for sale.'" Readers of The Homestead who are buyers of good stock and those who have animals of that kind for sale will serve their own best interests by obtaining advertising rates. Address inquiries to

THE HOMESTEAD CO. - DES MOINES, IOWA

The Youth's Companion.

There is a never abating interest in the pioneer stories of America. Some of these are purely historical and are reading of a highly interesting order. Some of them, like the serial story now running in Youth's Companion entitled "On the War-path," are of absorbing interest. This story is written by a man who was brought up among the Blackfeet Indians and whose intimate knowledge of their habits enables him to present information that is of value to every American. By the way, this story is only one of the many number of features of the Youth's Companion. Any reader of this paper who sends $2.00, the regular subscription rate, to the Youth's Companion, Boston, Mass., will receive, in addition to the year's subscription for 1914, all the issues of the Companion for the remaining weeks of 1913, including the holiday numbers. They will also receive the Companion practical home calendar for 1914, which is a household convenience. Send requests for sample copies or orders for subscription as above noted, to the Youth's Companion, Boston, Mass. See page 22.

Big Angus Sale at South Omaha.

M. A. Judy, West Lebanon, Ind., who will manage the big sale of Aberdeen Angus cattle at South Omaha, Neb., November 4th, announces that for that event he has secured one of the best collections of cattle that he has ever offered to the public. Sixty head are listed, twenty of them bulls, among them animals that are certainly good enough to go anywhere. Some very attractive bulls are listed by C. D. and E. F. Caldwell, Burlington Junction, Mo. They are cleaning up the old crop to make room for the calves that are coming on, and are listing some things that they consider among the very best that they have ever produced, and they belong to the Trojan Erica, Blackbird and Pride of Aberdeen families, and are sired by Undulata Blackcap Ito and Black Lad, two strong Blackbird sires. James Rhodes, of Bethany, Ill., consigns some extra good young things, sired by an International prize winner. There are several other good consignments in this sale, including one from the herd of S. Melvin, a well-known Illinois breeder, who is contributing the very tops of the females in his herd. This is a sale that deserves a liberal patronage. Manager Judy writes that this lot of cattle is absolutely one of the best that he has ever had anything to do with, and that the buying public will be in no way disappointed with the offering. There never has been a time when it would seem that beef cattle of the great Angus breed should be more in demand than at the present time, as the supply is short. Opportunities to buy good breeding cattle at auction are rare this fall, and when one is advertised in which so many good breeders are listing their cattle as is being done in the Omaha sale, it is to the interest of every person connected with the growing of cattle to give the matter attention. There will

H. D. DE KALB'S GREAT SALE

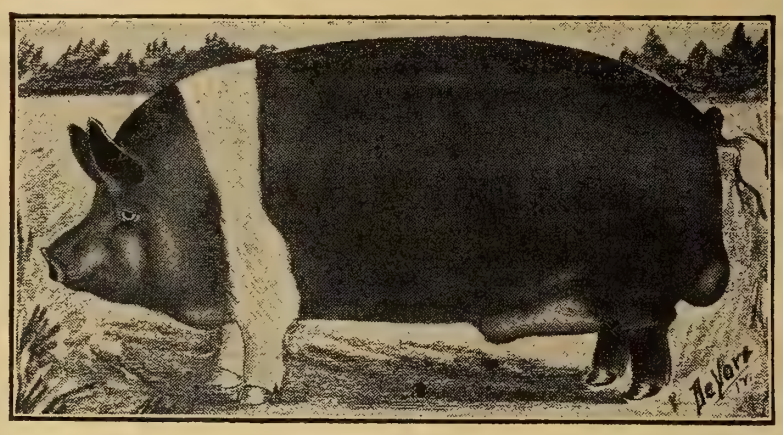
HAMPSHIRE BOARS

60 ——HEAD—— 60

COUNCIL BLUFFS, IOWA, NOV. 4, 1913

AT KIEL'S SALE BARN

The Grandest Lot of Boars Ever Listed for a Public Sale



DeKalb's King 50th, a Sensational Herd Boar Proposition to Be Sold in This Sale.

I AM selling **2 two-year-old boars,** both used with success in my herd; **35 of the greatest fall boars ever sold at public or private sale,** and **23 choice spring boars.** Included will be **DeKalb's King 50th,** a sensational young boar sired by the renowned Major, and out of Nellie Aylor's Best, one of the greatest sows in my herd. **Twenty-five** head of fall boars in my sale are sired by my world's famous boar, **Major,** and there will be some sensational herd boars among these. Write for my great catalog and kindly mention The Homestead. Address

H. D. DE KALB - - - DE KALB, IOWA

Cols. H. S. Duncan and N. G. Kraschel, auctioneers. Bids sent to M. T. White representing this paper in care of H. D. DeKalb, care Kiel Hotel, Council Bluffs, Iowa, will be properly attended to on day of sale.

The Last Opportunity of the Season to Buy Your Big-Type Boars and Sows at Public Sale

R. C. Hollingshead's Great Sale

Large-Type Poland Chinas

Chariton, Iowa, Tuesday, Nov. 11, 1913

60 Head---16 Spring Boars, 13 Fall Boars, 21 Fall Sows, 10 Spring Gilts 60

DON'T fail to attend my sale, as I am selling one of the greatest offerings of the year. There is no better in breeding or individual merit. These will be sired by **Big Combination** and the great boar, **Valley Chief,** two of the best big-type boars in southern Iowa. Spring boars in my sale weigh **350 pounds and better,** and the fall boars are the largest and biggest boned boars that have been offered this fall. If you want the **large-type Poland Chinas,** you will find what you are looking for in my sale. Write for my catalog at once and mention The Homestead. Address

R. C. HOLLINGSHEAD - RUSSELL, IOWA

Col. H. S. Duncan, Auctioneer. M. T. White, Field Man for Homestead.

be cattle in this sale to suit all classes of buyers, and the catalog should have wide distribution. It will be sent upon application if you write M. A. Judy, West Lebanon, Ind., as per the advertisement on page. When you write kindly mention The Homestead.

Marion Stone's Aberdeen Angus Cattle Sale.

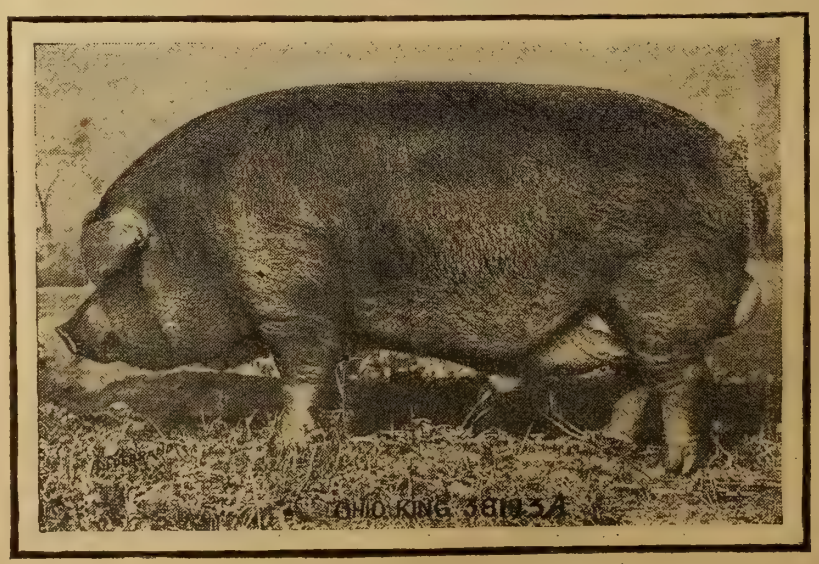
A sale of Aberdeen Angus cattle made up of all good cattle will be held in the live stock sale pavilion at Kansas City, Mo., on Friday, November 14th, by Marion C. Stone, Milan, Mo. Nine yearling bulls that are ready for service, twenty-two cows, mostly with calves at foot and rebred and nineteen two-year-old heifers (bred) are listed. There has not in years been offered to buyers through a Kansas City sale an offering of Aberdeen Angus cattle that would stand comparison with this string of bulls and females. Mr. Stone has not listed an animal for which he feels an apology is necessary. Those looking for bulls for herd headers or for high-class stock bulls should not fail to see those listed. There is a Trojan Erica listed that had he been fitted for the shows would have been a factor in every show where shown. A K. Pride is one that should be appreciated by men looking for top herd-header prospects. The nine head are strong fellows with size, bone and quality and are in excellent condition. All are by Mr. Stone's present herd bull, Kissenger 141961, a K. Pride bull that is one of the good bulls of the breed. His great scale, even balance, depth of carcass, thickness through the heart and two good ends and ability to transmit his good qualities stamp him as one of the good sires of the breed. He will be shown at the sale so all may see the sire of the young cattle and the bull the cows are bred to. The twenty-two cows, nearly all of which have calves at foot and are rebred, are a grand, good lot of regular producing females. The nineteen two-year-old heifers are a superb lot and no one will be disappointed in them, as they are the right kind to place in good herds. There are several K. Prides, daughters and granddaughters of the grand old Imp. Pride of Gartley 2d, the foundation of Mr. Stone's K. Prides. The Trojan Ericas are daughters and granddaughters of Imp. Eppy of Finlarg. Four daughters and several granddaughters of Imp. Joyful Girl of Theakston are listed. She is said to be one of the very best Lady Idas ever imported. A nice string of daughters and granddaughters of Imp. Abbess of Benton 4th and some very choice Easter Tulloch Duchess females are listed. Mr. Stone's cattle are known as the beef producing kind. In 1905 the steer, Big Nigger, produced by Mr. Stone, weighed 2,230 pounds and every year since his cull bulls have been steered and sold at prices that show an average of nearly $10 per hundred. This shows that he is producing beef cattle that make good, and those looking for cattle that produce the market topping kind should not fail to attend Mr. Stone's sale. Kansas City is known as the best place to buy Angus cattle worth the money and in this sale you will have an opportunity to buy good cattle that will breed on. Note page 29 for Mr. Stone's advertisement and send now for his catalog, mentioning this paper.

J. M. Robinson, The Auctioneer.

A young man that has been raised in the stock business and one that feels that he knows the live stock business to an extent that will entitle him to a share of the auction business of the country is J. M. Robinson, North Bend, Neb. Mr. Robinson has been in the auction business for the past five years, and while he has had only a small per cent of the pure-bred sale business of his section of the country, he feels that he is capable of handling more of it and has taken pains to fit himself so that he might render efficient work for those that may employ him. Especially well posted on cattle values and breeding, and equally well fitted to sell swine, he solicits a share of the business. It will probably be of interest to hear from him any way, and we would suggest those interested, or contemplating a change of auctioneers to write him. Kindly mention The Homestead when addressing him. Kindly notice his advertisement which appears on page 32 of this issue.

Williamson's Immune Poland Chinas.

On November 5th, H. O. Williamson will make his annual fall sale of fifty head of Poland China boars and sows at his farm at Herman, Neb., and he has another great offering for the boys. He is going to sell seven of his very best brood sows in this sale with litters at side. One of these is a daughter of the great prize-winning boar, Big Columbus, and he in turn is the sire of the undefeated grand champion boar Columbus. She has a splendid litter at side by Oakland's Equal. Among the other good brood sows that he is selling daughters of Grand Hadley, Ponder Model, A's Victor and Dutch Pan. All of these sows have litters at side and every one of these sows is a good one. Another feature of this sale is that everything has been vaccinated and everything that goes into this sale will be immune, so therefore this sale will be one that both the farmers and the breeders will be anxious to attend. He is offering fourteen head of spring boars and these are good and they are large and have plenty of bone. He also sells twenty fall sows. Write Mr. Williamson at once for copy of his catalog and kindly mention this paper. M. T. White will represent The Homestead at the sale and will look after any bids in his care.



DUROC BOAR AT HEAD OF B. W. LITTLE'S HERD, JANESVILLE, WIS.

Mrs. August Gorder's Sale.

At Plattsmouth, Neb., on Wednesday, November 12th, Mrs. August Gorder will make a public sale of fifty head of big-type Poland China boars and sows, and it is an offering that will compare very favorably with any of the sale offerings that have been sold this fall. This herd was founded by the late August Gorder and his wife and in laying the foundation for this herd they drew from the very best herds in the West. There is no better breeding than will be found behind this offering and the boars and sows that are listed are in nice condition and will be right for the breeders and the farmers who attend this sale. She is selling fifty head—twenty-four boars and twenty-six sows and gilts. First and foremost we want to call attention to the boars at the head of the Gorder herd. Futurity Jack, that sensational winner at the Nebraska State Fair, was bought by Mr. Gorder and you will find eighteen head of spring boars and gilts in this sale that are sired by him and they are among the best that will be sold. Futurity Jack was a son of I Am Big Too and he was the outstanding futurity winner in 1912, and he was afterwards bought by Mr. Gorder at a long price to go to the head of the herd. Another boar used at the head of this herd is Teddy, a son of the Nebraska State Fair grand champion boar, Big Mischief, and he was out of a dam by Big Hadley. This boar is the sire of some of the best things in the sale. The two-year-old boar, Petite Tecumseh, is listed for sale and he is a son of Matchless Expansion, the boar that went to the California Experiment Station Farm. He is a large boar and will beat 700 pounds and is a good breeding hog. There will be two good fall boars in the sale sired by him and these will be out of a dam by old Centennial. Two litter sisters to these boars will also be sold and they are all good. Among the good brood sows listed are daughters of Big Hadley, Big Smoke, Pawnee Nelson, High Pocket and a number by the boar, Teddy. Besides the good spring boars in this sale that are sired by Futurity Jack, there are also a number of very good ones by Petite Tecumseh, the boar we mentioned that would be sold in the sale. Altogether it is a good offering, bred along the very best big-type lines and well grown out. There are a number of boars in the sale that will make splendid herd boars and breeders should go after these, especially those who are wanting something to head their herd. Write Mrs. August Gorder, Plattsmouth, Neb., for catalog and kindly mention The Home

stead. M. T. White will represent this paper at the sale and will care for any bids sent in his care. See page 33.

Prettyman's Big-Type Poland China Sale.

The sale of big-type Poland China hogs which Obadiah Prettyman & Son, Fairfax, Mo., will hold on Monday, November 3d, is one from which buyers can secure breeding stock tracing to boars and sows that have made the big type so popular. Their senior boar, King Longfellow, now five years old is among the very best. He was got by Pawnee Prince, he by Pawnee Lad. His dam, Mary L., was by Big Prospect and better breeding is not found. He is one of the big ones, weighing 800 pounds in breeding condition and is as smooth as could be desired. Their assistant herd boar, Orange Wonder, is a son of Big Orange and Royal Lady, one of the greatest daughters of A Wonder. These two boars are the sires of practically all the offering which is made up of seven fall boars, twenty-three spring boars, three yearling sows, five fall yearling gilts and twelve spring gilts. Those wanting boars, sows or gilts should not overlook this opportunity. The entire offering passed through a siege of cholera during the summer and was also vaccinated with the simultaneous treatment. Note page 29 for Mr. Prettyman's advertisement and when writing him Kindly mention this paper.

F. A. Schofield's Duroc Jerseys.

One of the good herds of Durocs that we have visited recently is that of F. A. Schofield, Columbus, Neb. Mr. Schofield has been breeding good Durocs for a number of years, and his herd today will compare very favorably with that of the best breeders His stock is all of good breeding, and of splendid individuality and the breeding stock has come from the most prominent sources. Mr. Schofield has quite a number of spring boars yet for sale and he is pricing them so that a farmer may buy. They are growthy for their age, and good heavy boned, smooth stock. The greater part of them are sired by Old Modesty by Allen's Wonder Again. A new boar has been added to the herd. He was one of the top boars in the Larson sale of last August and is sired by King the Col. This boar is showing up remarkable size which is one of the pronounced traits of this family. His dam was Crimson Lady by Orion's Success, an Ira Jackson bred boar that sired a lot of wonderfully good sows. Mr. Schofield also has a fall boar, just a little past a year old that is certainly a big one. His sire is Crimson King by B. & L.'s Wonder and he is from Daisy, a mighty good sow by Uneeda Crimson Wonder. Mr. Schofield will make a sow sale in the winter, and further announcements will appear in The Homestead.

Dodds' Poland China Sale.

On Thursday, November 13th, Harry F. Dodds, Florence, Neb., will make a sale of forty-five head of his large-type Poland Chinas and it will not only be one of the very last sales of the fall season, but it will be one of the very good offerings of the year. Mr. Dodds is one of the younger breeders who has made good and he has built up one of the best herds in eastern Nebraska. He is offering a line of breeding in this sale that will appeal to many of the best breeders. He will sell fourteen head of spring boars and these are sired by such well-known boars as I Am Big Too, the boar that stands at the head of his herd and the sire of the noted boar, Futurity Jack, the sensational futurity winner at the Nebraska in 1912. Then there will be three boars in the sale that are sired by the undefeated grand champion boar, Columbus, and there will also be four outstanding gilts in the sale that are also sired by Columbus. The breeder who is going to want something that will help make his herd a reputation should go after these gilts as they are all right. Then there are some good boars in the sale that are sired by B.'s Great Hadley, Fargo, Big Bob, Expander, Guy's Price Last and the first-prize Nebraska State Fair winner, Big Tom. There are a lot of good boars in this bunch and some that will look good at the head of any of our best herds. He is listing his two-year-old boar, Fargo 65952, a son of Big Tom Jr., and out of a daughter of Big Victor. He is a good breeding boar and those who attend the sale can see just how he breeds by inspecting this offering, as some of the good young things in this sale are sired by him. He also sells a good fall yearling in Dodd's Best, a son of I Am Big Too and out of that splendid sow, Victress, by Big Victor. Here is a right good boar, he is large, stands up on good feet and legs, and is a big-boned fellow. He is selling six fall sows in this sale that are as good as anybody has sold this season. Three of these are sired by I Am Big Too and they are out of Victress, the great daughter of Big Victor. The other three are sired by Fargo, the two-year-old boar that we mentioned above that would be sold in this sale, and these are out of the great brood sow, Rose, that will be sold in this sale. No man need hesitate sending bids on these sows as they are good enough to go into any herd. He is also selling his Nebraska State Fair senior yearling sow, Show Girl, and she also won first prize at the Douglass county show later in the season. She is a splendid sow and is one of the best things he is selling. He is also listing Floridora, a daughter of I Am Big Too; Guy's Sunflower, a daughter of Olin's Guy, and Lady Hadley, a daughter of Cavett's Big Hadley. All of these are good brood sows, and have been selected because of their individual merit and their usefulness as breeding sows. He is selling, some splendid gilts in this sale and they are the same breeding as the spring boars. The sale will be made at Florence, Neb., at the feed yards and good street car connections can be made from Omaha. Write for his catalog at once and mention The Homestead. M. T. White will represent this paper at Mr. Dodd's sale and will care for any bids sent in his care. See page 32.

S. A. NELSON & SONS

again direct attention to their annual sale, which will be THE GREATEST WESTERN SALE OF

SHORT-HORNS

of many months. Sale at Farm near

MALCOLM, NEBRASKA,

FRIDAY, NOVEMBER 7, '13

50 head are offered: 8 serviceable, herd-heading bulls, 35 females, some with calves at foot. Some of the most valuable specimens ever passed through a Western Sale Ring are included.

THE BREEDING IS OF THE BEST containing blood of the most noted of the breed.

THE INDIVIDUALITY WILL PLEASE critical stockmen. Winners at recent fairs included.

THOSE OF THE PUREST SCOTCH pedigrees are listed.

EXCELLENT AMERICAN FAMILIES nicely Scotch-topped go in.

Those in Search of Herd Bulls will be interested in the beautiful roan youngster, a son of GOOD LAD'S GOODS and from a daughter of BURWOOD SULTAN, or the September yearling, HILLSDALE GOODS, ALSO BY GOOD LAD'S GOODS and from NONPAREIL FLOWER 2D, or either the red January calf by the same sire and from ORANGE BLOSSOM 2D. These are all of the purest Scotch breeding, two of them as valuable prospects as will be found. Other bulls of extra choice conformation will please the good stockmen.

Those that Appreciate the Ownership of choice Short-horns will be sure to appreciate the cows that will be offered. Massive cows that are suckling nice calves and are rebred, younger ones well up to calving and beautiful yearling heifers of showyard makeup, and everything of good pedigree, more than half pure Scotch, are listed. The older cows are bred to the splendid sire, DAUNTLESS CHIEF, while his heifers and other younger things are bred to GOOD LAD'S CHOICE by GOOD LAD. His dam by VICTOR'S ROAN DUKE.

25 IMMUNE POLAND CHINA BOARS will also be offered. They are the get of Jumbo C. by Wade's Jumbo, Long King's Model by Long King, Chief Price and Adams' Big Hal, Hillcroft Giant and a few others. No bigger breeding anywhere or more popular. You can secure a herd boar here. Some of these boars are bred by Peter Mouw, and all are from good herds. A special train leaves Lincoln at 11:00, making connection with all morning Burlington trains, and will leave Malcolm in time to make connections with evening trains out of Lincoln. Remember that the sale will be held at the farm, one mile northeast of Malcolm, Neb. Free conveyance to and from farm. We ask you to be with us November 7th. Ask for our catalog, look it through carefully and plan to be with us. Mention The Homestead when you write. Col. Z. S. Branson, auctioneer. J. C. Price will represent The Homestead. Address

S. A. NELSON & SONS, MALCOLM, NEB.

Hollingshead's Great Poland China Sale.

On Tuesday, November 11th, at Charlton, Iowa, R. C. Hollingshead, will sell sixty head of the best large-type Poland Chinas that will be sold in southern Iowa this fall and his offering is one that we will stand behind and will say that there will be no disappointments on the part of those who attend his sale. When it comes to size and bone they will all have to take off their hats to this offering, and we will say to those of our friends who are going to want a boar that there will be some in this sale that will surprise you. Mr. Hollingshead is the successor to J. A. Goltry, who for a great many years had the reputation of having one of the very best large-type herds in that part of the state. When Mr. Goltry became county clerk Mr. Hollingshead took over the herd and when you see this offering that he will sell in this sale you will say he is a most worthy successor to Mr. Goltry. He is selling sixteen head of the largest and the best spring boars that will be sold this fall and he is also selling thirteen head of the largest and stretchiest fall boars that we have feasted our eyes on this season. We have seen some good spring boars this fall but we have seen few better than some that he will sell in this sale. He is listing two litters—one by Valley Chief out of Iowa Girl; and another by Big Combination and out of Wide Valley by Valley Chief, that the boys will all have to take off their hats to. The breeder that cannot get a boar that will suit him in this sale will indeed be hard to please, as there are boars in this offering that are good enough to go to the head of any of the best herds in the land. He is selling twenty-one head of fall sows in this sale and you will travel many a day and will visit many herds before you will see so many good sows in one sale offering It will be one of the great offerings of the year and the breeders or the farmers who are wanting something large and good will make no mistake in attending this sale. When writing Mr. Hollingshead address him at Russell, Iowa, but remember his sale will be held at Charlton, Iowa. When writing him for catalog kindly mention this paper. M. T. White will represent The Homestead at the sale and will care for any bids sent in his care. See page 30.

Dunlap's Mule-Foot Hogs.

John H. Dunlap, Williamsport, Ohio, is known throughout the country as the man who has given the mule-foot hog its present good standing. He has made a success and helped his customers to do the same where they need assistance. At many state fairs this season the mule foot was recognized by having a premium list. The New York State Fair was the first of all state fairs to put this breed on an equality with other leading breeds. At this fair Dunlap's herd won all premiums competed for, and all the money this year as well as last. The grand champions of this breed were passed on by A. J. Lovejoy, one of the leading swine judges in America. Mr. Lovejoy told Mr. Dunlap that he could see a great improvement in the breed since the first time he saw his herd and at which time he also gave his herd the grand championship honors. Besides winning fifty-one ribbons at New York State Fair, Mr. Dunlap has won a majority of the ribbons and championships at other fairs where his stock was on exhibition. After trying other breeds, Mr. Dunlap says that he feels that the mule foot is the best general purpose hog in existence, that it is the medium type, between the heavy lard and the bacon hog, and that it is the most hardy, prolific, healthy and quick growing hog he has ever raised. See page 39.

The Nelson Short-horn and Poland China Sale. Last Call.

We are this week making the last call for the sale of Poland Chinas and Short-horns that will be sold by S. A. Nelson & Sons at the farm near Malcolm, Neb., on November 7th. In this sale there will be offered a choice lot of Short-horns, in fact one of the very choice offerings of Nebraska for some time. They are of good blood lines, and as fashions go, they are fashionable. We mean that there are a lot of pure Scotch cattle, and also some that would be called plain bred, but that are in fact the product of a long line of the very best breeding, coming from an ancestry on either side that is first class. There will be herd-heading bulls in this sale. Two of them are pure Scotch, one a red and from a family of red stock, and the other a roan and from a strain that has been strong for the roans. There is also a couple of extra good young bulls of the plainer breeding that are splendid individuals, and those that are not so particular will find in these last mentioned, a bull or two that are of surpassing excellence. The females offered are a very attractive offering, taken as a whole. They combine good individuality with nice pedigree and most of them are strong milkers. Some breeders of Polled Durham cattle will find in this sale some extra thick, low-down stock of good scale that will be nice to add

Scotch breeding to a Polled herd. The Poland China part of the sale will be made up of twenty-five boars, most all of spring farrow, but one aged boar by King Mastodon. He is called A Mastodon and is out of an A Wonder sow. This boar is not a fine looker, but we say without hesitation that he is one of the best breeding boars of the real big type that we have any knowledge of. Some breeder with a first-class herd should look after this boar. There is no question but that he will sell low, and he is really very valuable. There will be a special train from Lincoln to Malcolm and return sale day. It will leave Lincoln at 11:00 a. m. and return in the evening. This will make it easy for all to attend. However, those that cannot get to the sale, may send orders to J. C. Price, representing The Homestead and all such will receive careful attention. Plan to attend. See page 31.

McDermott Short-horn Sale.

J. W. McDermott, Kahoka, Mo., will make a sale of Short-horn cattle at Kahoka on Tuesday, November 25th, selling ten bulls, fifteen young calves and fifteen heifers. Mr. McDermott always sells good cattle and in this sale is listed higher-class herd bull material than he has ever before been able to put out. Among the females are several that would have made a creditable showing had they been fitted. It will be a sale of practically all Scotch cattle carrying much of the blood of Choice Goods through Fair Goods, one of the extra good breeding bulls sired by the old bull. Whitehall Sultan and Avondale blood will furnish some show material in the sale. In future issues more will be said of the offering. If interested in good Short-horns, write Mr. McDermott now for a catalog and kindly mention The Homestead when doing so.

C. W. Phillips' Poland China Sale—Last Call.

This is the last opportunity we will have of calling the attention of our readers to the sale of big-type Poland Chinas to be held by Chas. W. Phillips, New Sharon, Iowa, November 4th. On that day he will sell forty head, thirty-five of which are boars and the balance fall yearling sows. Five of the boars are fall yearlings, four by the noted sire A Wonder and one by Big Orange. This will be a good chance for someone to get an A Wonder boar that is ready for hard service. These A Wonder boars are growthy, heavy-boned fellows and will make large hogs. Part of the spring boars are sired by Long King Superior, one of the best sons of old Long King and we want to say that one of his pigs in this sale is a strictly first-class proposition for a big, smooth herd boar. There will be some good boars by A Wonder Again by A Wonder and a few sired by Mr. Phillips' herd boar P's I. X. L. Write for a catalog mentioning The Homestead. If you cannot attend the sale send a bid to Carlos C. Palmer, Homestead representative, and it will receive careful attention.

The Gierens' Holstein Sale.

On Tuesday, October 11th, T. A. Gierens, Walton, Neb., will sell at his farm one-half mile west of Walton and seven miles east of Lincoln, Neb., sixty head of Holstein cattle. There will be about fifty cows and heifers and ten bulls. They are of the same high-class sort as Mr. Gierens has always sold, and will surely interest those looking for really high-class cattle. The cows and heifers are the big roomy sort, and the bulls are suitable to head herds of good dairy cattle. A couple of these bulls are well enouh bred and of such individuality that they should be sought by those in search of something strictly high class. Free transportation will be furnished those from a distance, from Lincoln to the sale and return, this applies to those that cannot make train connections for the Missouri Pacific which is the railroad at Walton. Col. Z. S. Branson will conduct the sale. He is a man well posted on values and other characteristics of the breed and will be in position to handle to good advantage all mail bids that may be sent him by Homestead readers. Write Mr. Gierens for further information and arrange to attend this sale. When writing, kindly mention The Homestead. See page 19.

Waugh's Boars at Private Sale.

E. V. Waugh, Greeley Center, Neb., has decided not to hold a sale of Poland China boars on November 14th as he had planned doing, but instead will sell them at private treaty, and is starting an advertisement in this issue of The Homestead. Mr. Waugh has a really good herd of Polands, is one of the oldest breeders within the state, and Homestead readers cannot go wrong in buying from him. These boars are mostly by Victor's Wonder, a big hog and one of remarkable smoothness. He is sired by Big Victor and from an excellent sow, Lady Wonder's Best, the top sow of the Lonergan sale two years ago. A few are by Moberly by Big Expansion and still a few others are by Blue Valley and out of the top sow in the Walker sale last winter. Mr. Waugh handles only high-class breeding stock and Homestead readers will do well to address him immediately. Kindly mention The Homestead when writing. See this page.

Francisco's Special Sale of Poland Chinas.

C. W. Francisco, Inland, Neb., is making a special sale for fifteen days on his Poland China boars. These are the pick of his herd of spring raising, as well as three or four fall boars. They are mostly the get of young Combination and they are from a strictly choice lot of big sows. Mr. Francisco is in a section of the country where there is no corn this season, and he says that he will sell these boars cheap enough that those living where there is corn will be able to ship these boars in at a saving. The writer is famliar with this herd, which is one of many away above the average in excellence, and we are also quite sure that those ordering will be pleased with the selections that Mr. Francisco will make as he is a good stockman and thoroughly reliable. We would not take the time to write for description, but would just send him draft for $25.00 and tell him to ship the best boar on the place for the money. You will be pleased. If writing, mention The Homestead.

Boyer & Sons' Chester Whites.

B. M. Boyer & Sons, Farmington, Iowa, breeders of big-type Chester Whites, are offering for sale a fine lot of boars of spring farrow weighing from 175 to 200 pounds each in just nice breeding condition. This firm is selling plenty of boars and states that not a man has visited their farm without purchasing before leaving. This indicates that Mr. Boyer has the goods and when buyers see what he has they invariably purchase. The noted champion, Sweepstakes, a 1,260-pound boar, was shown by this firm and died in the herd. Iowa 1st is now being used in the herd. He was sired by Silver Lad and was first at the Iowa State Fair 1912. New York's Pride, Max and Jumbo Boy are excellent sires that have been used in the herd. The sows in the herd are sired by Jumbo, Challenger, Eclipse, Jr., Newman's Selection, White Goods, Royal Perfection and Silver Lad. This firm can supply your wants in Chester White boars and ship them C. O. D. They will hold a bred-sow sale on February 10th, at which time they will sell a high-class lot of sows. See page 36 and write them your wants and ask them to send you their handsomely illustrated catalog. Mention The Homestead when writing.

Wolf Bros.' Draft Horses.

A Homestead representative visited Wolf Bros., Albion, Neb., a short time ago and we are pleased to say that these gentlemen have at their farms a very fine line of Percheron and Belgian stallions and mares. The greater part of their stock is imported, many of them arriving just about the first of September, yet there are some really choice home bred ones on the farm. One of the best Percheron stallions that we have seen in a long time we found at this place. He was a prize winner at all the leading shows in France the past season, and kept up his good record by winning first in class and junior and reserve championships at the Nebraska State Fair this season, and at that time was just off the boat. These gentlemen also had the second and third-prize two-year-old stallions at Nebraska this season in Percheron classes, and these are also horses of outstanding promise. Good horses have been harder to secure in the old country this season than they have been for some time, and in order to get the shipment of the quality they secured, these gentlemen were obliged to pay some pretty stiff prices, but the good ones are the only sort brought over by these men, and it is a fact worthy of mention that a buyer from Wolf Bros. is a booster for them. At the Nebraska State Fair this season these gentlemen won first, second and third in the two-year-old Percheron class, the first-prize colt being junior and reserve champion as above stated. They also won first on three-year-old mare and the grand champion mare was also imported and sold by them. In the Belgian classes they won second on aged stallion; first, third and fourth on three year old; first, second and fourth on two year old; first on yearling and junior, senior and grand champion stallions. Lovers of good horses should visit Wolf Bros. before making purchases, and whether or not they buy, they are sure to be pleased with the treatment, and to gain by seeing so many good horses. These gentlemen announce that they will make very close prices in order to make room for a January importation and parties that purchase before that time will be able to effect a neat saving. Write these gentlemen without delay and mention The Homestead when doing so. See advertisement on page 34.

Turner's Immune Chester White Boars.

Amos Turner, Wilbur, Neb., is the proprietor of one of the really choice herds of Chester White, or O. I. C. swine in Nebraska, and right now he is offering readers of this paper some rare bargains in immune boars. These boars weigh from 185 to 225 and are being sold at such prices that they afford but small profit over the cost of production. However, Mr. Turner says that he must move them as he has a big lot of other stock that needs the room, hence he will make special prices on this stock for a few weeks. We want you to remember that some of these boars are by White Hope, the first-prize boar at Nebraska State Fair, also at the Kansas City Royal. The fall sows from this herd also won first and

PROTECT YOUR HOGS

HOG-JOY VERMIN KILLER

30 DAYS FREE TRIAL — USES CRUDE OIL

Your hogs can't thrive when they are lousy. A good part of the feed you give them goes to vermin instead of pork, which makes them easy prey to fatal diseases.

The Hog-Joy Machine

is a sure vermin exterminator. It destroys the lice by oiling them. Hogs will keep themselves free from lice without bother to you. Does away with the "Dip." Most perfect Hog-Oiling device on the market. Built entirely of cast iron, can't break. Only three parts, operates automatically; never out of order, winter or summer. Has no small openings to clog up; no small valves to stick. Use crude oil or any patent fluid you like. Machine doesn't waste a drop.

Endorsed By Big Hog-Raisers

H. R. MOSS, Winside, Neb.: "I received the Hog-Joy, and how the hogs did make it hum. Used all the oil up in one day. Am well pleased with it."

Sent ready to set up with two gallons oil; freight paid; 30 days free trial. Price $10. Your money back if not satisfied. Send money-order, check or cash at our risk. Reference any bank in Springfield, Ill.

Agents Wanted: Write for our liberal proposition. A sure money maker with little work. A rare opportunity for you. Descriptive literature, free. Write today and get your hogs in condition to resist disease.

THE HOG JOY CO.
301 N. 5th Street
SPRINGFIELD, ILL.

AUTOMATIC — UNBREAKEABLE — FREIGHT PREPAID

BREEDERS' HIGH-CLASS

ABERDEEN ANGUS

AT AUCTION

UNION STOCK YARDS PAVILION **SOUTH OMAHA, NEBRASKA,**

TUESDAY, NOVEMBER 4, 1913

60 HEAD, consisting of 20 bulls and 40 cows and heifers, all females safely settled in calf or with calves at foot. They are of the most fashionable families, Blackbird, Trojan Erica, Pride of Aberdeen, Queen Mother and other popular families. There has probably been no sale this year that will show more bulls of the high-class, herd-heading kind than this sale. They are bred in the purple and their individuality is such that they will please. Whoever is in the market for a top-notcher Aberdeen Angus bull should attend this sale. This lot of bulls are right from every viewpoint. They are from 12 to 24 months old, have extraordinary scale, with plenty of quality, low-down, blocky chunks, the popular type. Every one will sire the market topper steer. The cows and heifers cataloged for this sale are the very tops of S. Melvin's herd. Every one of them was bred by him. They are splendid individuals and in excellent condition to breed on and make money rapidly. They are sired by the very best bulls the breed has ever produced. They are teeming with the best and highest priced blood that is known to the breed. Everyone who is in the market for good cattle will be pleased with this offering if they will only come out sale day and examine them. Send for a catalog. Mention The Homestead and address

M. A JUDY, Sale Manager, WEST LEBANON, INDIANA

COL. SILAS IGO, Auctioneer.

H. F. DODDS' SALE

LARGE-TYPE POLAND CHINAS

Florence, Neb., Nov. 12, '13

45 HEAD: 16 BOARS, 29 SOWS AND GILTS. 45

I AM selling **14 spring boars** and **Fargo 65952**, a spring yearling by Big Tom Jr., and **Dodds' Best 67417**, a splendid fall yearling by **I Am Big Too.** The spring boars are sired by **Columbus, B.'s Great Hadley, I Am Big Too, Fargo, Big Bob, Expander, Big Tom,** and **Guy's Price Last.** I am selling four splendid gilts sired by the undefeated boar, **Columbus,** and they are good ones and a lot of good ones by other boars. I am also selling my noted sow, **Show Girl,** 4 other good brood sows and 6 outstanding fall sows. Col. H. S. Duncan, auctioneer. M. T. White will represent The Homestead at the sale and will attend to bids sent in his care. Write for my catalog at once. Address.

H. F. DODDS, FLORENCE, NEBRASKA

TOO LATE TO CLASSIFY.

SPECIAL SALE UNTIL NOVEMBER 15TH

I HAVE as good a bunch of spring Poland China boars as I have ever raised. Also a few extra choice fall boars. There is no corn in my section of the country, and I am going to sell these big boars so that those living where there is corn can afford to buy. If you will write me, I will make it worth your while. Address

C. W. FRANCISCO - - - - - INLAND, NEBRASKA.

J. M. ROBINSON
LIVE STOCK AUCTIONEER
I CONDUCT SUCCESSFUL SALES.
WRITE EARLY.
NORTH BEND, NEBRASKA

DUROCS FEBRUARY and March males and gilts, lengthy and heavy boned, at reasonable prices. B. B. McAlister, Blakesburg, Iowa.

G. H. TUTT, Marathon, Iowa, breeder of Chester White hogs. Herd immuned and in good health. Big, good, and well bred spring boars for sale. Prices reasonable.

FULL BLOOD guaranteed Chester White boars and sows for sale. Address Lock Box 73, Radcliffe, Ia.

W. W. Scott, Calamus, Ia., breeder of Duroc Jersey hogs. Spring pigs of both sexes for sale. Will weigh 200 lbs. or better. Bred sow sale in Jan.

FOR SALE

MONTROSE 190187. He is one of the greatest Poland boars of today, will easily carry 900 lbs. and is a heavy breeder. Montrose will be sold at public sale at his home 1½ miles west of Linden, Iowa, on November 7, 1913. Come and buy a bargain in this great hog. Strictly no disease in herd.

CLARENCE WHITE - - LINDEN, IOWA

Duroc Jersey Sale

ON November 11th I will sell at public auction 36 Duroc Jersey boars. Two fall boars and 34 spring boars, several of which weigh 300 lbs. I breed for size, bone and quality. Write for catalog, mentioning The Homestead.

HUGH M. FICKE - LONG GROVE, IA.

30 Poland Boars For Quick Sale

THEY are by VICTOR'S WONDER by Big Victor, MOBERLY by Big Expansion, and BLUE VALLEY. They will be sold quick. Address

E. V. WAUGH - - GREELEY, NEB.

TWIN CEDARS HAMPSHIRES

HAMPSHIRES all ages for sale, the heavy boned, cholera immune kind, all bred from prize-winning boars at Iowa State Fairs. Address

PAUL WM. JAHN - MANILLA, IOWA

O. I. C. Boars or Gilts priced right.
Address W. P. Doolittle, Woodland, Missouri.

second at Kansas City. This is the class of stock being offered, and if interested in the good ones and at prices that are really bargains, write Mr. Turner without delay. See page 36.

Al E. Smith's Jacks and Jennets.

Al E. Smith, Lawrence, Kan., whose advertisement appears on page 34 is offering the trade eighty, large-boned, mammoth jacks from which to make selection this season. They are from fifteen to sixteen hands standard measure and are fully guaranteed by Mr. Smith, and our readers who have dealt with Mr. Smith in the past know that he has the kind that please and make good and that are guaranteed and all statements made by him can be relied upon to the minutest detail. He has built up the splendid business he enjoys by straightforward business methods, and the fact that the same buyers come back to his barns year after year bears evidence to the fact that he pleases the trade. A number of good young Percheron stallions are also offered for sale. The stock is priced to sell and Mr. Smith invites you to call and inspect his stock. He is conveniently located adjoining Lawrence, just forty miles west of Kansas City, on both the Santa Fe and Union Pacific railroads. Let him know when you will come and he will meet you at any time. See page 34 and in writing for further information kindly mention this paper.

WINTER MANAGEMENT OF FARM HORSES.

To the Editor of The Homestead:

One of the most important points to be considered in the winter management of the farm work horses is to have them in good condition to perform hard work next spring. Of first importance is a light and well-ventilated stable. Many horse stables, especially in parts of the country where the winters are unusually severe, have but few windows. It is impossible to keep a stable sanitary and comfortable without plenty of fresh air and sunshine. Windows should be placed as high from the floor as possible so that when they are opened there will be less draft directly against the horses. In the writer's stable there are several windows, and by opening two or more at various times, according to the wind and sun, the change of air is made without making an undue draft upon the horses.

Cleanliness is an exceedingly important thing in carrying horses through the winter in good condition. The average farm horse is not given the food and attention he deserves during the winter. While it is not always possible to give farm work horses grooming every day when they are idle, yet there is no reasonable excuse for keeping the stables filthy and foul smelling and not providing some means whereby they can obtain plenty of fresh air and out-door exercise. On most farms straw is cheap and plentiful and all that is required to keep the horses clean and comfortable is the desire to do decently the things which our means will allow. If the horses are not used at some kind of work every day they should have a yard to exercise in when the weather is favorable. The horse cannot build up body vigor and strong and supple muscles without fresh air and out-door exercise. The care of work horses in the winter should be with a view to the building up of strong muscles and energy for work, and only such care should be given as will be conducive to that result.

If the horse gets good care and plenty of nourishing food and does not maintain a good flesh condition, something is wrong and in more than two-thirds of the cases it is his teeth. The health and disposition of a horse depends, in a large measure, upon good teeth and an easy, comfortable mouth. A competent veterinarian should be hired to examine the horse's teeth and see that they are kept in good order. The mouth and teeth should be gone over carefully to see if there are any sharp or rough edges on the teeth that will lacerate the cheeks or tongue. By filing down these sharp points and edges he will be comfortable, as it allows the full chewing of his food, improves his health and temper and causes him to behave nicely and work well. One decayed tooth often causes an overgrowth of the corresponding tooth on the opposite set and this overgrowth should be leveled down so as to permit the uppers and lowers to come together and present an even grinding surface. The horse frequently declines in condition because his teeth are so decayed or overgrown that he cannot chew his food. A good veterinarian can fix up a horse's teeth in a short time and at a surprisingly small cost. If once placed in good working order and examined from time to time it is little trouble to keep them so.

The care of the feet during the winter is greatly simplified if the shoes are removed as soon as the farm work is completed in the fall. Of course, it is necessary to keep the horses well-shod when they are working in the winter. However, it is seldom advisable to keep the shoes on horses that are not doing regular work or being driven on slippery roads. The feet are the most important part of a horse and their perfect soundness is essential if the animal is to work in comfort. If the horse is not properly shod he should be kept inside when the roads are slippery. On the other hand, he should not be allowed to stand in the stable with his shoes on so long that the outside walls of the hoof overgrow the shoes. Watch the horse's feet carefully.

Whether brood mare or gelding it is the healthy, well-fed horse that exhibits the greatest endurance in the collar, so the winter management imposes liberal and judicious feeding. The superb vigor so characteristic of high-class farm horses cannot be maintained by feeding half rations. The weak, emaciated horse loses money for his owner by lack of endurance and decreasing vitality. Such weak, run-down horses should not be tolerated, much less courted, even if feed is high. The expense of maintaining farm horses is a large item. It may be as much as $100 a year; it can scarcely be less than $50. When to this is added interest, taxes and depreciation of horses, no arguments should be necessary to convince a farmer that he should get the most work possible out of every farm horse. It costs to feed the idle horses and for this reason it is a fundamental economy to have them in the best of condition to go into the spring's work and perform steady, every-day service.

Good feeding does not consist in stuffing the horse for a number of weeks before he is put to work on heavy grain feeds. Regular and careful feeding on a good allowance of clean, palatable hay and just enough wholesome grain feed to keep him in a thrifty, flesh-gaining condition is all that is required to keep him in good shape for hard work in the spring. Probably the greatest mistake made in feeding horses is that of feeding too much roughage. The horse has a small stomach and is not capable of handling a large amount of coarse feed, like a cow. Where ten or fifteen pounds of roughage are required by the average work horse many farmers feed all they can be induced to eat. Their digestion becomes weakened, their intestines clogged and their general appearance sluggish. On many farms the horse's manger is filled with hay three or four times a day. In many cases sick and out-of-condition horses may be cured by merely cutting down on their roughage ration. In my own practice I feed my horses two feeds of cut hay mixed with grain mornings and noons and at night a liberal feeding of bright, clean hay. I feed about three pounds of cut hay with the grain ration, which is varied to meet the needs of the horses that are being fed. From six to eight pounds should be sufficient for a horse that is not doing hard work. A mixture of corn and oats makes one of the best grain rations available on the average stock farm. If the corn and oats are crushed and mixed with cut hay the danger of impaction is greatly reduced, because the food must be consumed more slowly. If plenty of roughage is thoroughly mixed with the grain the danger of deranging the animal's digestive system is reduced to the lowest possible degree. Alfalfa and clover are excellent feeds to cut and feed with grain and the danger of dust is eliminated if the mixture is sprinkled with water at feeding time. When feeding cut clover and alfalfa with the grain ration it gives a wider variety to feed timothy or mixed hay for the roughage ration at night.

The supply of water must be pure and plentiful. The watering pails or troughs should be clean. When the horse is in good average condition he should have all of the water he will drink. Water him before feeding because it passes through the stomach rapidly. Care must be exercised in watering horses that are being worked, but idle horses are not likely to drink too much water if given to them twice a day. The horse that is being worked requires different treatment and food from the ones that are idle, consequently what I have said regarding the care of idle horses would not apply with equal force to the horses that are being worked regularly during the winter months.

Subscriber.

Mrs. August Gorder's

BIG-TYPE

POLAND CHINAS

Plattsmouth, Neb.,

WEDNESDAY, NOV. 12, '13

50 HEAD: 24 BOARS, 26 SOWS. 50

IN ESTABLISHING this herd my late husband and myself drew from the best and most noted herds in this country, and you will find this offering one of the best of the season. There will be 18 head spring boars in sale sired by the noted boar, **Futurity Jack,** that headed the herd. Also a choice lot of gilts in sale sired by **Futurity Jack.** There will be **Petite Tecumseh,** a splendid two-year-old boar, in the sale and two high-class fall boars; also some excellent brood sows, daughters of such noted boars as **Big Smoke, Pawnee Nelson, Big Hadley and Teddy.** You will find a grand good offering in my sale. Col. H. S. Duncan, auctioneer. M. T. White, field man for The Homestead. Write for catalog and mention The Homestead. Address

MRS. AUGUST GORDER,
PLATTSMOUTH, NEB.

H. O. Williamson's Great Offering

Vaccinated and Immune

BIG-TYPE POLAND CHINAS

HERMAN, NEBRASKA, NOV. 5, 1913

50 Head: 14 spring boars, 7 sows with litters, 6 fall sows, 3 yearling sows, 20 gilts.

INCLUDED will be the splendid yearling boar, **Great Mastiff 61786,** a son of the champion King Mastiff. I am selling fourteen big, lusty, spring boars sired by **Great Mastiff, Hadley Golddust, Long Chief Jr.,** and **Big Tecumseh;** seven of my best sows go in with litter at side, among which is a daughter of **Big Columbus, Long Prospect, Dutch Pan, Grand Hadley, Ponder Hadley** and **A's Victor;** six fall sows and twenty choice gilts. If you want them large and good come and see my offering. Col. H. S. Duncan, auctioneer. M. T. White field man for The Homestead Catalog now ready, when writing for it mention this paper. Address

H. O. WILLIAMSON, HERMAN, NEB.

HORSES.

PERCHERON, BELGIAN AND SHIRE

STALLIONS and mares of the highest order. Stallions weighing from 1,600 at 18 months up to mature horses at 2,200. We make a specialty of good type, action and soundness. We are natives of France,—we know where the good ones are to be had and we make our own selections. We save money in buying, we save buyers maney when we sell. Come and see our horses and be convinced We guarantee satisfaction. We are twenty-six miles west of Lincoln and sixty-eight east of Grand Island on the Burlington and seventy-five southwest of Omaha on the C. & N. W. Mention Homestead and write us. Address

JOS. ROUSSELLE & SON - - - - SEWARD, NEBRASKA.

Percheron Stallions

FINE large 2-year-old Percheron stallion, one yearling Percheron stallion, $1,000 takes the two. Also have Hereford bull calves for sale.
H. D. CLORE - - LUCAS, IOWA

AN EXTRA LOT OF YOUNG CLYDESDALE STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

FOR SALE
After October 15th,
PERCHERON STALLIONS
from 2 to 5 years old.
Singmaster & Walker,
at Stock Yards, Sioux City, Iowa.

SHETLAND PONIES The small gentle kind. I have them from baby ponies to grown ones broke to drive and ride, for sale. Address S. W. Harr, Riverside, Iowa.

300 SHETLAND and Welsh ponies for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

HORSES.

TRUMANS' CHAMPION STUD

1878 THE WORLD'S GREATEST COLLECTION OF 1913

SHIRE STALLIONS AND MARES

PERCHERONS TO SUIT THE MOST CRITICAL BUYERS

BELGIANS AND HACKNEYS OF RICHEST BREEDING AND STRONGEST INDIVIDUALITY

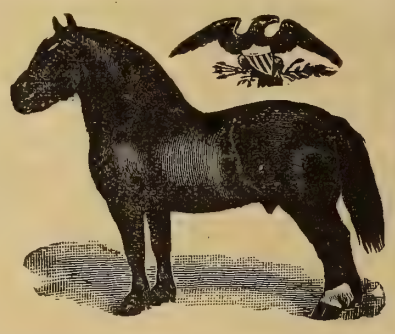
Our Prices are the Lowest. OUR HORSES ARE THE BEST Send for our handsomely illustrated catalog. Mention Homestead when writing.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS

HOLBERT HORSE IMPORTING COMPANY

PERCHERONS BELGIANS SHIRES

NEW IMPORTATIONS CONSTANTLY ARRIVING



We have at any time of the year more **Big Ton, High-class Percheron** and **Belgian stallions** than any other firm in the United States.

A. B. HOLBERT, Prop., GREELEY, IOWA

MAASDAM & WHEELER

FAIRFIELD, IOWA

PERCHERONS

10 Head of Extra Large Imported 3 Year Olds.
12 Head Large, Strong, Home-bred 3 Year Olds, Blacks and Dark Grays, Still on Hand and now for Sale at Reasonable Prices.
MARES AND YOUNG STOCK FOR SALE AT ALL TIMES

BELGIAN EMPORIUM OF AMERICA

LARGEST COLLECTION OF BELGIAN DRAFT HORSES ON EARTH.

ALSO twenty Choice Percheron Stallions. The fall importation of 100 head, the second importation for 1913 swells the number on hand to 175 stallions, mares and colts. Many Prize Winners; Many Descendants of Prize Winners, All Choice Animals. We are Farmers and Stock Breeders; twenty-eighth year in the Belgian horse business. Each year adds to our strength, and now we can defy competition in Quality, Quantity and Prices.

4 FARMS ALL ADJOINING; 7 LARGE BARNS.

Our railroad facilities are fine, Fairfax on main line of C. & N. W. Ry., also on Marion, Ottumwa and Kansas City Division of C. M. & St. Paul Ry. Eight miles from Cedar Rapids; 40,000 inhabitants, telephone from Cedar Rapids for auto or team to meet you at Interurban, car every hour. Farms two miles from Fairfax, three miles from Interurban. Free catalog with 100 illustrations.

H. LEFEBURE & SONS, - - - FAIRFAX, IOWA

HEISEL'S PERCHERONS

GET in line, be the first to purchase one of those big, drafty, **Percheron** stallions that arrived in my new importation September 22d.

Sale barns in town, located 180 miles west of Peoria, Ill., 91 miles west of Burlington, 70 miles southeast of Des Moines, 290 miles south of Minneapolis, on M. & St. L. and C. B. & Q., R. R.

E. J. HEISEL - - - - FREMONT, MAHASKA CO., IOWA

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

I HAVE a fine collection of big, rugged, heavy-boned Percheron, Belgian and Shire stallions and mares ready for the inspection of buyers. If you want the kind that has been winning at the state fairs, at rock bottom prices, see what I have before you buy. Stallions and mares of all breeds on hand. Write me for any information you may want, mentioning The Homestead.

GEORGE EGGERT - - - - - - NEWTON, IOWA

WE ARE IMPORTERS

of the Best Blood of Europe in

PERCHERON AND BELGIAN STALLIONS AND MARES

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I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address
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40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
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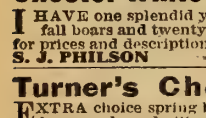

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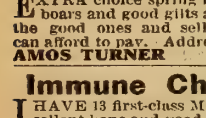

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GOOD ONES, March and April pigs, sired by **Ben Hur 20329** by Chief's Council 16397 by Chickasaw Chief 14901 and **Fancy Goods 20327** by Major Jr. 19297. Aberdeen Angus cattle. 2 Blackbird bulls for sale. Write for prices.
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WE have a fine lot of boars and gilts sired by our Prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
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160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
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125 HEAD of spring pigs of both sexes to select from. Also booking orders for fall pigs to be shipped at weaning time. Have six male pigs, one year old the middle of Sept. Will ship on approval. Write or come and see me.
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6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address
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FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
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SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

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I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
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EXTRA choice spring boars, also a couple of tried boars and good gilts are now for sale. We raise the good ones and sell them at prices any one can afford to pay. Address
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I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
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VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
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CHESTER White fall and spring boars by the great Plainview Choice. Also some Shorthorn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

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LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

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O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Scioto, Ill.**

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

IMMUNE CHESTER WHITES--- SPRING and yearling boars at reasonable prices. C. F. Sealock, Neola, Iowa.

C. C. EVANS

LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa

Prize-winning Chester Whites

A FINE lot of extra choice spring boars, also gilts and sows for sale. Mostly the get of the great Keep On Winner. Write today.
H. L. BODE - - - FRIEND, NEB.

BIG, SMOOTH CHESTER WHITES

WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

MURRAY'S CHESTER WHITES

CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
CHAS. H. MURRAY - FRIEND, NEB.

Crosier's Chester Whites

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

DUNBAR'S CHESTER WHITES

16 BEST boars I ever raised. March and April farrow. Cholera immuned. Prices reasonable. Also a few choice gilts for sale. Write me at once.
W. H. DUNBAR - JEFFERSON, IOWA

BURT'S CHESTER WHITES

18 CHOICE Spring Boars ready for service. Could spare a few gilts, also fall pigs.
B. R. BURT, COGGON, LINN CO., IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

Bloom's Chester Whites

25 HEAD of choice fall boars by Pathfinder 2d, Pride of the West and other good boars. Size, heavy bone and good. Immune from double treatment. Call and see these hogs or write to
EARL BLOOM - BRIDGEWATER, IOWA

O. I. C. boars, gilts and sows. Good bone and ham, at right prices if taken soon. Geo. W. DeBar, Aurora, Iowa.

BLACKBURN'S BIG SALE

IMMUNE DUROC JERSEY BOARS

Will be Held at Farm Near

ORD, NEBRASKA, WEDNESDAY, NOV. 5, 1913

THERE will be offered in this sale a strictly choice lot of spring boars, the get of CRUSADER COL. He was fifth in a big showing at Lincoln this season and is sired by a grand champion. They are out of one of the best sow herds within the state and all of the most popular blood lines. If in search of a really choice boar, attend this sale. Col. Z. S. Branson, Auctioneer. J. C. Price, fieldman. Mention The Homestead and address

J. R. BLACKBURN, ORD, NEBRASKA.

CHESTER WHITE SWINE.

30 CHOICE FALL BOARS

SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by **High Style, International King, International Boy, Combination III, Village Boy and Combination's Favorite.**
BRED SOW SALE, FEBRUARY 27, 1914
Please paste this in your hat. Anything in the boar line sent on approval. Address
J. L. BARBER - - - - - HARLAN, IOWA

BOARS! BOARS!! BOARS!!!

I HAVE decided to cut prices on Chester White boars and gilts for the next 30 days. These pigs are sired by three different boars. Have the length, good bone, good backs with the very best of heads and ears. Weight from 150 to 300 lbs. If you want a boar or gilt at a little above market price, write at once. Anything shipped on approval.
Harry Hurless, Ogden, Iowa.

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead.
WM. A. HOOVER, OSKALOOSA, IOWA

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent young boars, some choice herd headers. Also 50 good spring boars. These pigs have been immuned. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA

DUROC JERSEY SWINE.

KING GANO 13311

1st Prize Junior Yearling at Des Moines

I AM offering **40 BOARS FOR SALE,** most of which are sired by **King Gano 13311,** the 1st prize junior yearling at Des Moines, 1913, and the greatest yearling ever seen at the fair. He weighs 725 lbs. at 17 months and is the sensation of the year. Write me about these boars at once and mention The Iowa Homestead. Address
O. E. OSBORN - - - - - WESTON, IOWA

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - IRETON, IOWA

25 Immune Duroc Jersey Boars---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address, mentioning Iowa Homestead
E. A. CALKINS - - - - - RUTHVEN, IOWA

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address
F. H. DICKEY, EMMETSBURG, IOWA

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - - SYRACUSE, NEBRASKA

R. J. Harding's Duroc Bargain

I AM offering twelve good fall boars for sale sired by **Col. Gano** and **Chief's Protection,** and I am also offering fifteen yearling and aged sows bred to Col. Gano for fall litter. Write me about these at once. Address **R. J. HARDING - - - - - - - MACEDONIA, IOWA**

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - - ALGONA, IOWA

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Eride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Slittyton Duke the 6th for sale.
B. W. LITTLE, R. 7, JANESVILLE, WIS.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H.'s Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,
P. W. WEBERG - DENISON, IOWA

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfeld's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - FAIRMONT, NEB.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - DAVIS CITY, IOWA.

DUROC JERSEY SWINE.

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model II., Crimson Ohio Chief, Crimson Chief II. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - FREDERIKA, IOWA

50 Immune 50
DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

DUROC JERSEY BOARS

I HAVE a fine lot, of spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - VICTOR, IOWA

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premrer Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

MENAUGH BROS.
Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

25 DUROC JERSEY BOARS 25
25 DUROC JERSEY GILTS 25

LARGE, growthy, heavy bone. Everything guaranteed as represented. Best breeding, $20 to $30. Correspondence solicited. Address
W. J. HARTUNG - MAXWELL, IOWA

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - Rose Hill, Iowa

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

100 IMMUNE BOARS

SELECTED from a crop of 350 head. All immuned with double serum treatment. No noney down. Will ship on approval. Order without delay. All best of breeding. Address
F. C. CROCKER - FILLEY, NEB.

15 HEAD IMMUNE DUROC JERSEY BOARS

I AM offering 15 good boars. All **vaccinated and immune.** Sired by I Am Muncie. These are good boars. Price $25 and $35. Send your order at once. Address **J. F. Kerns, Holstein, Iowa.**

BIG DUROCS by J. E.'s Model King by King The Col. Write for prices at once.
J. E. HENSLEY - CENTRAL CITY, NEB.

Special Prices on Durocs Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcolm, Nebraska.

DUROCS May Pigs for sale. Long, heavy-boned boars and gilts of good strains. Jos. Shradel, Riverside, Iowa.

DUROC JERSEY SWINE.

BIG DUROC BOARS BY WILSON'S DEFENDER

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am selling at $25 and $30 each. These pigs weigh from 150 to 180 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. Yearling sows by Wilson's Defender and Crimson Wonder I Am; gilts by Wilson's Defender and Wilson's Crimson Wonder, bred or open. Wilson's Defender and Select Model by Golden Model at the head of my herd. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. Mention Homestead when writing. ½ mi. N. of town. **I. J. WILSON, WEST BRANCH, IOWA**

TRULY A CRIMSON WONDER
FOR SALE

THIS great son of **Crimson Wonder Again** and **H. A. Queen's,** a great herd boar. Also 15 choice spring boars. Price $30 to $40. Come and see me at once.
SILAS IGO - - - INDIANOLA, IOWA

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - ALEDO, ILLINOIS

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - AMES, IOWA

Boars For Sale
Sired by CRIMSON WONDER AGAIN

MODEL Chief 8th and Cherry Chief. Big, husky fellows with bone and size. Priced to move them. Address
H. S. ALLEN - - RUSSELL, IOWA

Duroc Jersey Boars

I HAVE 10 big, lengthy fall boars by Premier Gold Bond and an extra good lot of large heavy-boned spring boars sired by Cherry Chief, Royal Col., Professor 2d, S. E.'s Premier, Eclipse, B. & C.'s Perfection and Premier Gold Bond. If you want the big, smooth kind, write me, mentioning Homestead.
HUGH M. FICKE, LONG GROVE, IOWA.

DUROC JERSEY BOARS FOR SALE
I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
Wm. BAUER - - - AUDUBON, IOWA

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

IMMUNE RED HOGS
DOUBLE TREATMENT
Crimson Wonder and Ohio Chief Strains
GEO. T. WHITE DALLAS CENTER IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - DICKENS, IOWA

DUROC GILTS, $15 to $30

I HAVE a choice lot of early and late spring gilts; also some fall gilts that I will sell at above prices. Will also breed them for small sum additional. A few spring boars. Address
WM. RETZLAFF, BENNETT, NEBRASKA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - WOODWARD, IA.

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Supberba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - RYAN, IOWA

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - West Liberty, Iowa

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Geiken, Cozad, Nebraska.

DUROCS---April Pigs For Sale

Good lengthy boars and gilts of the best breeding.
L. L. WOODS - - - GRINNELL, IOWA

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col. and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. These boars have size, bone, quality, combined with breeding that is right. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address
HANKS & BISHOP - - - - - - NEW LONDON, IOWA

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - GRISWOLD, IOWA.

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - DE WITT, NEBRASKA

BRIGGS' DUROC JERSEY BOARS

50 CAREFULLY selected, cholera immune, Duroc Jersey boars, sired by Cleatham's Pride, always a prize winner, Crimson Wonder 4th, first Nebraska, 1911, Queen's Crimson by C. W. Again and Belle Wonder. Positively everyone a good one and will weigh from 200 to 250. Write us today and mention The Homestead.
GEO. BRIGGS & SONS - - CLAY CENTER, NEBRASKA.

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND. - - STORY CITY, IOWA

20 Immune Duroc Jersey Fall Boars 20

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols.** and **G. C.'s Col.** Pricing these $25 to $50. Everything has been vaccinated and are immune. Order at once. Address
GEORGE C. EVERTS - - - - AUDUBON, IOWA.

60 EXTRA CHOICE CHOLERA IMMUNE DUROC JERSEY BOARS

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select,** and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Everything in herd vaccinated. Will guarantee everything to live 30 days or will refund one-half of purchase price. Ready to ship at any time. **H. S. FAIN EMMETSBURG, IA.**

Duroc Jersey Boars From Van Patten's

BOARS by the great Uneeda Crimson Wonder and Model Wonder, also a few by Queen's Col. These are from one of the oldest established herds of America and from a grand lot of sows. These herd heading boars go at farmers' prices. Let us have your order at once. Address
G. VAN PATTEN & SON - - - - - - SUTTON, NEB.

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you if you come to the farm. Address
J. B. ASHBY - - - - AUDUBON, IOWA

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address
B. W. HUNT - - - - - - - - - - DENISON, IOWA

MERRICK'S DUROC JERSEY BOARS

ARE the kind that will make good on your farm. They are as well bred as possible to obtain and they are individually of the right sort. Farmers' prices will take these good ones if ordered at once. Write for prices and description at once. Address, mentioning The Homestead,
F. E. MERRICK - - - - OSCEOLA, NEB.

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - MARQUETTE, NEBRASKA.

30 HIGH-CLASS DUROC JERSEY IMMUNE BOARS---30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, A.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
R. F. AIKMAN - - - - AUDUBON, IOWA

40—BIG-TYPE DUROC JERSEY BOARS—40

SIRED by Crimson wonder Chief, San Salvador and Cherry Chief, and from sows sired by Crimson Wonder I Am, Belle's Colonel, Proud Colonel, Blue Ribbon Chief and other noted hogs. These boars are March and April farrow and weigh 160 to 200 lbs. They have good neat head and ears, broad arched backs, thick deep hams, are a deep cherry red in color and as smooth as a ribbon. Price $20 and $25 each.
R. H. DE VAULT - - - BLOOMFIELD, IOWA

DUROC JERSEY BOARS
OF March and April farrow, sired by Protection's Medium by Chief Protection and Model Select by Chief Select. The dams are of Muncie Chief and Crimson Wonder Again breeding. Prices reasonable. Write me before you buy.
WARREN HUGHES, LITTLEPORT, IOWA

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

IMMUNE DUROC BOARS FOR SALE

VACCINATED by double method. Four head of fall yearlings and 25 big, growthy, spring boars. Herd boars, Clover Dale Chief 117753 and Lincoln Model 133869. Dams of best breeding. Visit or write
U. G. BURTON - STORM LAKE, IOWA

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

POLAND CHINA SWINE.

50 Head Hancher's Big-Type Immune Poland China Boars--50

I AM offering **fifty head** of as good boars as I have ever raised. These are all **immune** and are **ready to ship.** Sired by my 1,000-lb. boar, **Smooth Wonder 2d, Chief Price Jr.** and **Chief Again Price,** the Nebraska **State Fair Grand Champion boar.** These are out of my very best sows, viz: **Long Molly, Model Wonder, Long Molly 2d, Price Model 3d,** and other 700 and 800-lb. sows. These will make outstanding good boars and I am pricing them at **$30 to$50.** Get busy and order one of these right away. Mention Iowa Homestead when writing me. Address

M. P. HANCHER - - - ROLFE, IOWA

50 Big-type Cholera Immune Poland China Boars For Sale at 25 Dollars Each

WE HAVE 50 HEAD of big spring boars **all big enough for service** that we are going to sell at **25 dollars each,** a price you can get for them on the market when you get through with them. **They are sired by the 1000-lb. Big Bone 2d, the 900-lb. Big Expansion, the 600-lb. yearling Chief Leader** and other boars **The dams are sows of the extreme size, weighing from 500-pound yearlings up to sows of over 800 pounds.** If you want one, send your check the first letter. We have made the price so you lose nothing if you want a boar. **We guarantee safe delivery. Guarantee them breeders.** Don't write us for a two-page description; we will answer no letters at this price, but guarantee you a pig worth the money if you want a boar. Address, mentioning The Iowa Homestead,

W. H. COOPER - - - - - - HEDRICK, IOWA

BIG BONE 2D 161497.

30 CHOLERA IMMUNE BOARS 30

Sired by my great boar, PAWNEE PRICE,

one of the largest and best big-type Poland China boars in the state. Everything **VACCINATED AND IMMUNE.** Write me for prices and description at once. Mention The Homestead and address

W. E. ZIMMERMAN - - - NEOLA, IOWA

HAMPSHIRE SWINE.

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. My herd is headed by Messenger Boy 6179, the undefeated grand Champion of 1912,

CLAYTON MESSENGER - - - KESWICK, IOWA

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB, DE KALB, IOWA.

Sunny Slope Hampshire Swine

200 February and March pigs sired by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** Best lot of pigs ever on farm. Write for prices mentioning The Homestead.

C. A. BROOK, WASHINGTON, IOWA.

NISWANDER'S HAMPSHIRE SWINE

I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudio, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address

HOWARD NISWANDER - - - - - - KINROSS, IOWA

HAMPSHIRE BOARS

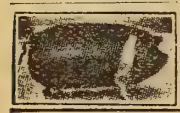
WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address

WOOD & WESCOTT - - SHEFFIELD, ILLINOIS

Excellent Hampshire Boars

A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price you can afford, write me. I can supply you. Mention Homestead.

C. P. PAULSEN - - NORA, NEBRASKA



R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today.

R. L. BOLLMAN, COAL VALLEY, ILLINOIS.

Fisher's Prize Winning Hampshires

THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address

ROY E. FISHER - - WINSIDE, NEBRASKA

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

HAMPSHIRE BOARS

SAME breeding as my **silver cup** winners at Des Moines, 1912. Will weigh 175 pounds and have had double treatment. Price $35 each. Guaranteed breeders. Mention The Homestead when writing.

F. T. QUIRE - - - - SULLY, IOWA

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address

J. E. BECKENDORF, WALNUT, IA.

TATRO'S PRIZE-WINNERS

HAMPSHIRE boars and gilts sired by Allen of Geneva and other high class boars for sale at moderate prices. I offer more prizewinning blood than will be found elsewhere and good individuals with it. Address

F. C. TATRO, GENEVA, NEB.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address

Billie McFarland - - - Syracuse, Neb.

HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.

Geo. T. Pearce & Son - Bloomfield, Iowa.

Prize-winning Hampshires Some extra choice boars. Winners Neb. and Colo. fairs. Farmers' prices. Write at once. Address C. S. Bratt, Arapahoe, Neb

IMMUNE HAMPSHIRE fall and spring boars for sale. Write for description to H. C. Mehring, Manson, Iowa.

JONES HAMPSHIRES--- Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address

E. S. McCANDLESS - THURMAN, IOWA

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when waiting. **F. O. Peterson, Galva, Ia.**

Gausman's Hampshires

A FINE yearling boar and a nice lot of pigs of spring farrow are now for sale. Good breeding, good stock, and the right sort of prices. Address mentioning Homestead.

C. H. GAUSMAN - SEWARD, NEB.

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address

A. L. DIEHL, BENEDICT, YORK CO., NEB.

TWIN CEDARS HAMPSHIRES

HAMPSHIRES all ages for sale, the heavy boned and profit-making kind, all bred from prize-winning boars at Iowa State Fairs. Address

PAUL WM. JAHN - MANILLA, IOWA

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address

L. F. TETER - SHICKLEY, NEBRASKA

HAMPSHIRE boars and sows. One yearling boar, heavy boned, well marked, weighs about 400 pounds. Price $60. Edw. Dooley, Selma, Iowa.

When writing to advertisers please mention The Homestead.

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address

C. H. PORTER "Oakwood Farm Poland Chinas." EAGLE GROVE, IOWA

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART - - - HARLAN, IOWA**

AN EXCELLENT HERD BOAR FOR SALE

ONE of the very best Poland China boars within the state. A proven breeder, excellent make up and of splendid pedigree. Competent judges pronounce him absolutely as good as to be had. Also spring boars sired by him. Write me today for breeding and prices. Mention The Homestead

J. A. JACKSON, - - RAYMOND NEB.

POLAND CHINA FALL PIGS AT $15.00 EACH

FALL pigs sired by the great Poland China boar, Hillcroft Model; also by Big Martin by the champion Big Tom, are for sale at $15 each at ten weeks old. These are from prize-winning sows. All of the highest order. Also some spring boars and two choice fall boars. Write me if you want something choice and worth the money. Address

G. A. KISSINGER, MILFORD, NEBRASKA

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.

JOHN H. FITCH - - - LAKE CITY, IA

POLAND CHINA BOARS

LARGE, vigorous, mellow fellows of quality, spring and summer farrow, and a few summer gilts, all by Imp's Masterpiece by Impudence. Will sell Imp's Masterpiece as I am keeping his daughters. All priced to sell. G. H. Drake, Cole Camp, Mo.

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.

Not the originator, but the preserver.

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

20 Immune Poland China Boars

ONE two-year-old, 3 fall yearlings, 16 spring farrow. Big type. Well grown. 3 Polled Durham and 1 Short-horn bull.

W. H. Barr & Son, - - - Villisca, Iowa

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.

O. J. SATRE - - - JEWELL, IOWA.

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

TAMWORTH SWINE.

TAMWORTH SWINE

KNOLL SLOPE FARM offers you Breeding Stock that prove profitable. Boars and gilts, no kin, all of high quality. Express office, Iowa City, Iowa.

C. C. ROUP - - KALONA, IOWA

TAMWORTH BOARS

I HAVE ten choice spring boars, also one tried boar for sale. Prices reasonable.

Eugene Holden, R. 1, Williamsburg, Iowa

MAPLE GROVE HERD OF TAMWORTH SWINE

SPRING boars, weight from 150 to 200 pounds, at $20 to $25. **F. J. McKeever, Ryan, Iowa.**

TAMWORTHS Spring boars and fall yearlings; a few choice gilts. Address Vane Coen, Afton, Iowa.

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

BIG-TYPE POLAND BOARS

20 FALL BOARS weighing 300 to 450 pounds, sired by the 1,000-pound Mastodon Chief and Tecumseh Prince, 2 yearling boars by Mastodon Chief, and some good spring boars by Mastodon Chief, Big Jumbo 2d and Mastodon Wonder. The fall boars are a good bunch and are priced right. My herd has been immuned with the double treatment. Mention The Homestead when writing.

E. W. KREISCHER, MT. VERNON, IOWA

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices Address

JOHN I. DRIPPS - SPRINGVILLE, IOWA

FRANCISCO'S

Combination Polands

SOME very fine spring boars by Young Combination, also some extra select fall boars by Great Victor. Only the best have been reserved, and they are priced to move. Write me for a bargain.

C. W. FRANCISCO, INLAND, NEB.

POLAND CHINA BOARS FOR SALE

WE have thirty fall Poland China boars weighing 200 to 250 each at $35 to $40 each; and twenty-five spring boars at $15 each. From sires and dams that passed through the cholera two years ago. Have been a breeder of Polands for thirty years and certainly can please you. Address

J. O. Walton - - - Belle Plaine, Iowa

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones—growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

FALL PIGS by LONG GIANT

ALSO some by Big Bone and Baird's Choice and from an excellent line of sows that I will sell at $10 to $15 per head while they last. A grand opportunity to get the blood of the best and at small cost. **G. B. Van Kleek, Central City, Neb.**

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - COON RAPIDS, IA.

40 SPRING AND FALL BOARS 40

THE stretchy, smooth coated, mellow kind, sired by Orange Boy (son of Big Orange). This is big-type Poland China breeding without roughness—the Expansion kind. Cut prices. Good health.

M. G. Arnold & Son, Strawberry Point, Ia.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once

A.B.Heckenlively - - - Cozad, Nebraska

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., Rt 2, box 76, Lawler, Iowa.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires: Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152095) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

POLAND CHINA SWINE.

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $375 and $325 spring boar in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 70 and 800 pounds. We went to sell these boars and we are pricing them at from **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - **CLARINDA, IOWA**

FESENMEYER'S BIG-TYPE POLAND CHINA BOARS

I AM now offering **75 head of fall boar pigs** sired by the world-renowned **A Wonder** and **Big Joe.** These are out of my very best **Giantess, Long King, A Wonder** and **Big Joe** sows. You can buy one of these fall pigs now and you will save from one-half to two-thirds what you will have to pay for a boar next season. Buy these now and save your money. Address

HENRY FESENMEYER - - - - **CLARINDA, IOWA**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big-type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **Immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for description and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

BLUE VALLEY HERD OF POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead,

WM. KEEP - - - - **ATLANTIC, IOWA**

THE CHAMPION AGAIN EXPANSION

HEADS our Poland China herd. We have some of the best spring boars that we ever raised for sale. They are by Big Bone, T. A. Sampson, Again Expansion and Mabel's Wonder. Everything has passed through the disease. None better anywhere and prices the lowest. Address

C. B. POWERS, - - - **AURORA, NEB.**

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - **OCHEYEDAN, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.

A. ROESLER, - - - **WILCOX, NEB.**

EXTRA BIG, IMMUNE POLAND BOARS

WE have for sale a very choice lot of big, heavy boned boars, sired by Herod 2nd, and also some few litters bred by Peter Mouw. These Herod 2nd pigs are headers for the top herds. If in search of the extra big, also the smooth sort, write me. Mention Homestead and address

W. H. DEIGAN - - - **RAYMOND, NEBRASKA.**

Naiman's Immune Poland China Boars

OUR boars are all immune, and we will make good any hog that dies with the cholera. They are principally the get of Naiman's Expansion, and this boar is also for sale. He is big and smooth and a sure breeder. Write me today for a bargain in Poland Chinas. Mention The Homestead and address

JOHN L. NAIMAN - - - **ALEXANDRIA, NEB.**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - - - **MINDEN, NEBRASKA.**

FALL PIGS BY BLUE RIBBON HASTINGS

AT $10 to $15. An extra choice lot of fall pigs sired by the great Poland China boar, Blue Ribbon Hastings. He is one of the best bred boars in use anywhere and is a pleasing individual and always a winner where shown. Also spring boars to close out very cheap. Have saved only the tops of the spring crop. Write me today, address

W. J. EAVEY - - - - - **GENEVA, NEBRASKA**

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181783 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Big Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL. - - **GRINNELL, IOWA**

McCurdy's Giant Polands

SOME of the biggest, heaviest boned boars to be found anywhere, and they are of the very largest breeding. If you want big ones that are smooth, write me. I will save you money. Address

WM. McCURDY - **TOBIAS, NEB.**

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - **LISBON, IOWA**

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495.

DAVENPORT & MACK, BELMOND, IOWA

30 IMMUNE POLAND CHINA BOARS 30

I AM offering thirty head of **Vaccinated and Immune** spring boars sired by the great **Colossal,** at **$35 each,** as long as they last. Ten of these boars will weigh 300 pounds. Also one choice fall boar. Write me quick. Address, mentioning The Homestead,

L. R. M'CLARNON - - - **BRADDYVILLE, IOWA**

HALFORD'S BIG-TYPE POLAND CHINA BOARS

I AM offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great prize-winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of Long Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address

R. W. HALFORD - - - - - **MANNING, IOWA**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them over or write. Address

J. R. HIGGINS & SON - - - - - - - **DEWITT, NEB.**

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - - - - - **KELLEY, IOWA**

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

KELLEY, IOWA

JAMES LAWLER'S IMMUNE POLAND CHINA BOARS

50 IMMUNE Poland China boars. 8 good fall boars, 42 spring boars sired by Miller's Choice 170929 bred by John Miller, and Chief Price A 173973, bred by Peter Mouw, and Giant's Equal 198449, he by Equal's Giant 184927, he by Long King's Equal 177373. Their dams include all of the best big-type breeding. They are sired by Rock Valley Chief, Expansion King Jr. 2d, Chief Price Jr., A Wonder, Big Tom and Carey's Long Wonder. Come and see them or write for prices. **James Lawler, Clare, Iowa.**

'20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1 at $15 each.

H. E. BURGUS - - - **Route 6** - - - **OSCEOLA, IOWA**

SNYDER'S A WONDER FOR SALE

AN extra choice yearling boar, sired by a son of A Wonder. Pronounced by good judges to be one of the best, big, smooth yearlings in the West. Will sell for $75.00. Positively no less, and the first check gets him. Weighs 600 in good breeding shape. An excellent sire; am keeping his gilts. Mention Homestead and address.

PERRY A. SNYDER - - - - - - **CARLETON, NEBRASKA.**

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

MY Big Type Poland China boars are sired by Cox's Wonder, by Rude's Giant, and out of a Long King sow and by A. Model, grand champion of Iowa, 1912, and others. I sell at farmers' prices Write me.

B. F. MARMION - - **FARMINGTON, IOWA.**

FOWLER'S GIANT POLANDS

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RIVERSIDE FARM MULE-FOOT HOGS

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350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

Wonderful CURES

Made With 20 Days' Trial Package

Most astonishing results are being obtained everywhere by thousands of Corona Wool Fat users. Farmers, stockmen, horse and mule owners, blacksmiths and liverymen everywhere are helping to spread the news of **wonderful cures.** Every day on every farm where stock is kept there is a great need of this remarkable healing remedy which so easily and quickly penetrates wounded or ulcerated surfaces—even the hardened hoofs of horses—carrying positive and quick relief to the affected parts.

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Corona Wool Fat is readily absorbed by the skin and the hoof, and will actually grow a new hoof on animals suffering from quarter cracks, brittle hoofs, etc. The hoof of the horse is from 60 to 70 per cent water and Corona Wool Fat is the only remedy that will penetrate it successfuly.

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Riverside Ranch,
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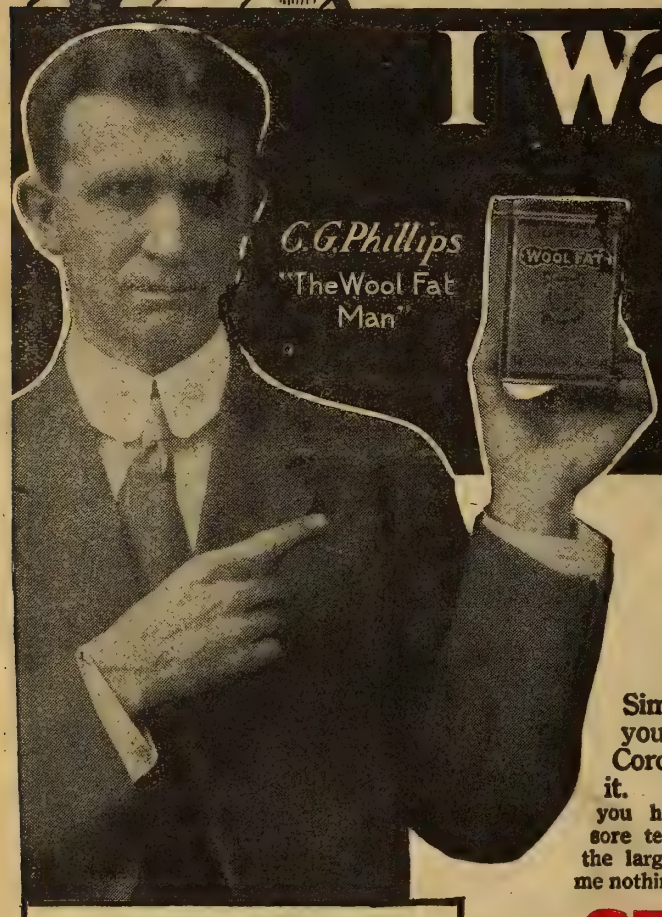

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Simply mail me the coupon below (or even a postal card with your name and address) and I will send you a big can of Corona Wool Fat together with full directions how to apply it. Use it 20 days after you get it. Try it on any case you happen to have, horse, cow, or mule, old sores, barb wire cuts, sore teats or hoof troubles. Then if satisfied send me only 50 cents for the large can I have sent you. If not satisfied, say so, and you will owe me nothing. I take all the chances.

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Name.....

P. O. .....R.F.D.....

County.....State.....

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CRACKED HOOFS

A BAD CASE OF SCRATCHES

GREASE HEEL

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Agricultural Bldg.
Urbana, Ill.
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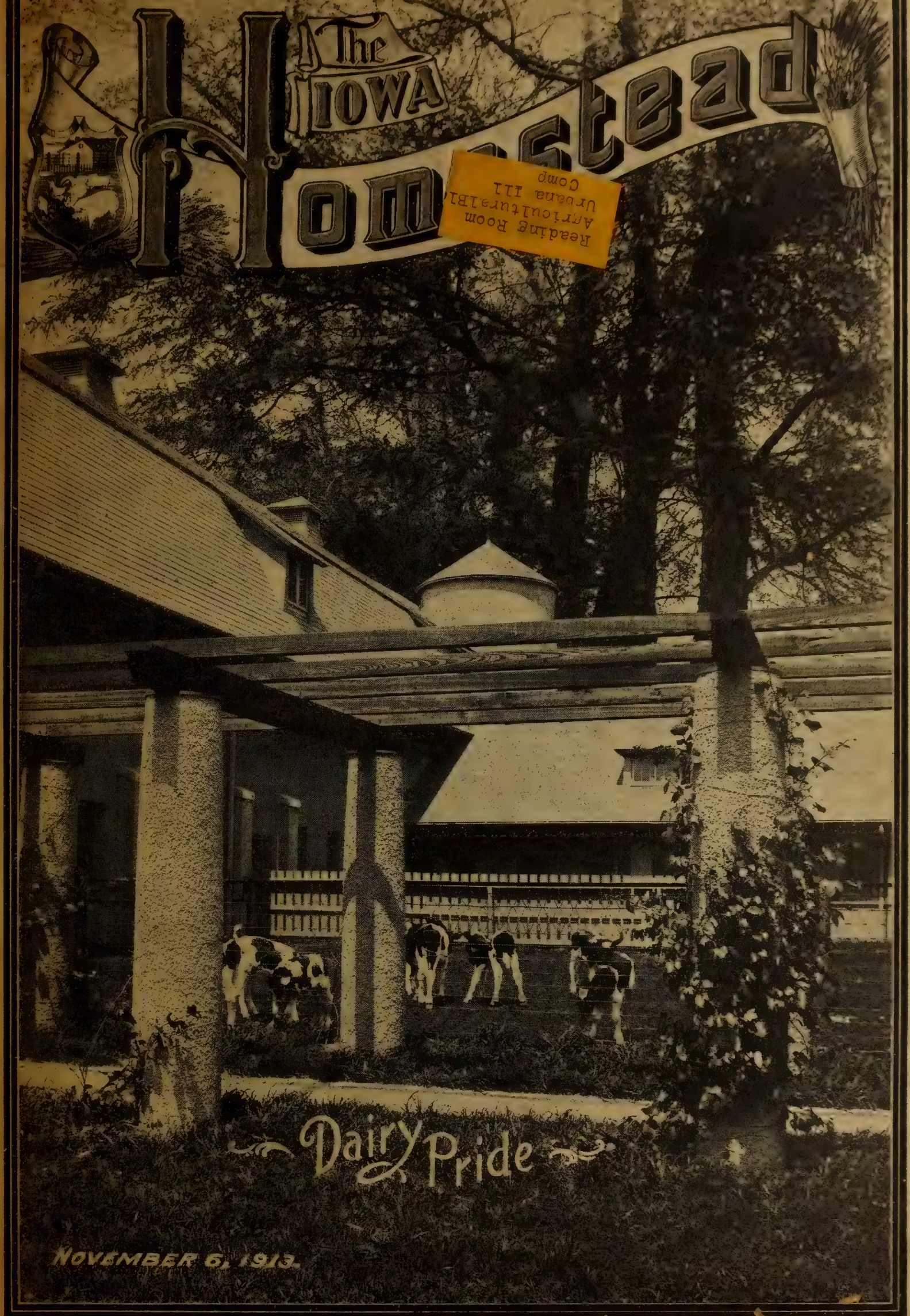
The Iowa Homestead



Dairy Pride

NOVEMBER 6, 1913.

COAL Direct From The Mines

Keep Dealer's and Jobber's Profits In YOUR Pocket

DO you know that wherever you live *you* can now buy coal straight from the mines at wholesale prices, the prices your *dealer* has to pay?

Do you know that this winter you can save from $50 to $100 on your coal supply—have it delivered promptly—the cleanest, best heat-producing coal you ever used?

It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

Our great mines near Vincennes, Indiana, produce enormous quantities of the finest coal in the country—the coal that is famous for its remarkable heat unit efficiency. We ship everywhere direct from mines in carload lots this splendid guaranteed fuel.

Tecumseh Coal

Save $50 to $100

on your winter's coal supply. We know that seems too good to be true, but it is an absolute fact that hundreds of people far and near are already buying Tecumseh Coal from us at wholesale and making this marvelous saving.

Not only is Tecumseh the best heat giving coal—but it is *all coal*—cleaned at the mines by the most perfect system ever installed.

No matter how big your coal bills have been in the past—no matter how much you have fattened the jobber's and dealer's profits—the time to turn your back on the old costly round-about way of buying is now. Begin with *this* winter to make this real saving.

It is plain common sense for you to save money by dealing *direct with the mines*. You owe it to yourself to find out the facts and prices—to learn more about Tecumseh Coal. All we ask is the opportunity to quote you prices—to prove in actual figures the splendid saving you can make.

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If you cannot use a whole car—25 to 40 tons—you can easily arrange with your neighbors to divide up the shipment and still make this handsome saving on your winter's coal.

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Martin-Howe Coal Co.
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Martin-Howe Coal Co.,
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No. of Cars.....Kind of Coal.....

No. of Cars.....Kind of Coal.....

Name.....

Nearest R. R. Station.....Name of Railroad.....

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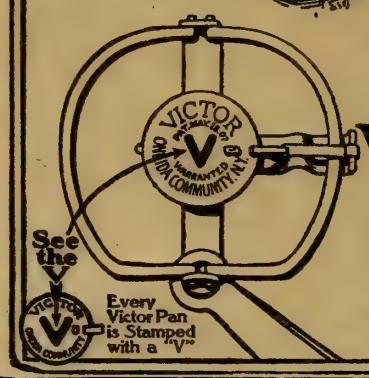

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To Boys or "Grown-Ups":—Write for free booklet on trapping, showing how you can make money before and after school or between "chore" times.

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Ask your dealer for Genasco. Guaranteed. Smooth or mineral surface. Write us for samples and the Good Roof Guide Book.

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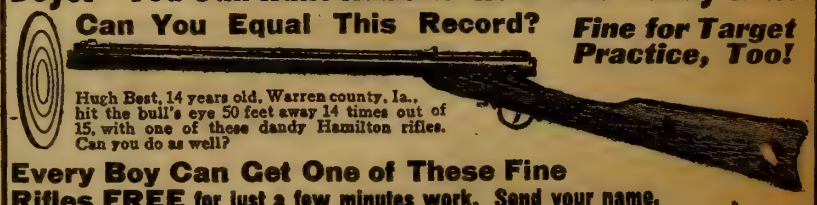
Guarantee Tag Warrants Wear for Full Year—or New Blanket FREE

Boys! You Can Hunt Rabbits With this Dandy Rifle!

Can You Equal This Record?

Fine for Target Practice, Too!



Hugh Best, 14 years old, Warren county, Ia., hit the bull's eye 50 feet away 14 times out of 15, with one of these dandy Hamilton rifles. Can you do as well?

Every Boy Can Get One of These Fine Rifles FREE for just a few minutes work. Send your name.

The first light snow will soon be here and you will want to get out in the woods and follow the tracks of the Rabbit. There's lots of sport in the early winter and right now is the time to get your rifle.

You can do it easy in a short time. Several thousand boys have already received them as presents from me, and what they have done you can do. Don't send any money but just your name and address and I will send full rifle particulars free.

A. M. Piper, 175 Popular Building, Des Moines, Iowa

The Iowa Homestead

VOL. LVIII. NO. 45. DES MOINES, IOWA, THURSDAY, NOVEMBER 6, 1913. WHOLE NO. 2926

Making Posts and Poles Last Longer

Important Work of the Forest Service in Testing Preservatives of Farm Timber—By D. E. Mowry

THE lifetime of a fence post may be extended from two to four times its natural span by the use of proper preservatives. Experiments performed at the United States Forest Products Laboratory, a branch of the department of agriculture, located at Madison, Wis., have shown that cedar and oak posts will last twice as long if treated and the difference with the softer timber is even very much greater. As the cost of such treatment may be kept within 10 cents per post, the expense will not prove prohibitive, especially when durability is an important consideration.

The amount of wood used on the farms of the country and exposed to rapid decay is enormous. It is estimated that one billion fence posts and rails, the equivalent of six billion board feet, are required each year. For this class of material, durability is the first consideration. The naturally durable woods were formerly plentiful over large areas, but in many sections of the country they have now become too scarce and dear to use. There remains, however, an abundance of inferior woods which, when preserved from decay, make entirely satisfactory substitutes. Many different preservatives have been widely used for ties, poles and piling. The scarcity of durable fence posts is comparatively recent, and, until the forest service took up the question from a scientific as well as a practical standpoint, definite information regarding the preservative treatment of fence posts was lacking.

Users of posts and poles in all parts of the country are alive to the necessity of obtaining increased length of service from them. Except in very warm and moist climates posts and poles which are placed on skids and allowed to become air dry do not decay, because they do not contain sufficient moisture to support the growth of fungi and wood-boring insects, the causes of decay. When posts and poles are set, however, that portion coming in contact with the soil will absorb moisture until conditions favorable to decay are restored. To prevent decay in the timber exposed to the soil or moist air, the wood substance must be rendered incapable of supporting fungous growth. This is accomplished by injecting antiseptics into that portion of the timber exposed to the soil. It has not been found necessary, except in very porous woods, to impregnate the wood throughout. In general the antiseptic should penetrate

HEIGHT TO WHICH FENCE POSTS ARE USUALLY GIVEN TREATMENT.

deep enough to prevent exposure of the untreated wood by abrasion, checking or other action.

There are several methods by which timbers may be given more thorough preservative treatment. The surface may be soaked with paint or some similar treatment. Such a coating keeps the wood dry, and more or less effectually excludes the entrance of the decay-producing organisms. Such coatings should be applied to well-seasoned material, because the coating tends to retard the escape of the moisture that may be within the wood. Better preservatives are the products of the distillation of coal tar and petroleum, which, in addition to possessing the advantage of paint, are antiseptic and poisonous to fungi. The deeper such antiseptics penetrate the wood the more lasting is the effect.

"It is well known," says C. P. Willis, forest assistant, author of a bulletin on the preservative treatment of farm timbers, "that wood decays most rapidly when placed in contact with the surface of the ground, because the wood-destroying organisms find there more uniform conditions of heat and moisture to encourage their development. For this reason the ground line of a post must be thoroughly treated, whereas portions of the post above and below this point require less treatment. The climate of a locality should also be considered."

Good results have been obtained by charring the posts over an open fire. The wood must first be thoroughly seasoned, and care must be taken not to let the wood "check" or split from the heat. Too deep charring, whch will weaken the post, must be avoided. In some cases it is necessary to char the entire post, but the burning should always extend one foot above and one foot below the ground line. It is often a good plan to char the very top of the post.

Treatment with the brush should be resorted to only when more effective methods are impracticable. If brush treatments are to be effective, the posts must be thoroughly seasoned, or the surface coating will afterwards be broken by the opening of seasoning checks, through which moisture will enter the wood. At best it has been found that surface coatings are not very durable. Some of the substances which may be applied with a brush are whitewash, petro-

(Continued on page 17)

BARREL OUTFIT FOR CREOSOTING FENCE POSTS.

POST-TREATING PLANT—STEAM SUPPLIED FROM PORTABLE BOILER.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

SCOLDING THE FARMER A POPULAR PASTIME.

One need not go very far to find things to criticise—no farther in some instances indeed than one's own dooryard. We have never yet seen the farm that could not, in some way, be criticised as affecting its management in certain particulars. The sensible man is not always brutally frank in making his observations, at least, he should not be, although there may be times when a little suggestion will be in order and will be taken in the same spirit in which it is given. It is not to scold, but rather in this spirit that one of our subscribers writes when he points out the great loss that is due to the rapid depreciation in farm implements on account of weathering influences. On this subject he writes:

The man who does much traveling through the country and who keeps his eyes open, cannot fail to find many evidences of waste of farm machinery. Undoubtedly farmers as a class have been unjustly accused of being wasteful in many ways, some of the wastes being big and some small, but the one waste which we see on every hand, that of neglected implements, is, in our opinion, very serious. We are firmly of the opinion that the reason why so many young farmers, who have started out with good prospects of financial success in their chosen profession, have not achieved that success at the end of ten or fifteen years, is simply because they have had to put all their profits back into new implements with which to keep going.

The item of farm implements is a source of greater expense than any other to the young farmer just starting out to make his living by tilling the soil. An equipment of necessary farm tools, including buggies, wagons, harness, etc., for an eighty-acre farm will cost between $800 and $1,500. Some of this expense may be met with notes and for two or three years thereafter the young farmer must use a good part of his profits in taking these notes up. In the meantime, his new implements have been deteriorating from legitimate usage, but far more from exposure to the weather when not in use, and so by the time the equipment is fully paid for the term of usefulness of some of the implements is ended and the junk dealer is ready to claim them, while the farmer must obtain new tools to take their places.

The manufacturers of farm implements are growing rich because of this waste on the part of farmers, while many hard-working young farmers are prevented from ever gaining an independence because of this waste always going on all around them. Those farmers who will make an effort to prevent this waste and thus keep their money for themselves on the farm, where many improvements and conveniences are badly needed, no doubt, are the men who will earn reputations of being good managers, while the places where there is a display of farm implements scattered about the premises will present good evidence of bad management on the part of their owners.

Sometimes this bad management takes the form of neglecting to put the implements under shelter though ample shelter may be available for every tool on the farm. More often, however, there is not ample shelter available. What should a good manager do in this case? Why, build tool sheds if he is the owner of the farm, or compel his landlord to build them if he is a renter by firmly refusing to occupy a farm where there is not a reasonable amount of storage room for tools. The cost of a serviceable tool shed need not exceed that of a grain harvester, and the investment will double the life history of every piece of machinery covered by the same. Consequently, a good tool house will more than pay for itself in a very few years. Some of the manufacturers of farm implements have been frank enough to admit the truth of this assertion, and many good farmers have demonstrated it to their complete satisfaction.

It is quite true that the too-rapid wearing out of farm implements has kept the nose of many a man on the grindstone, as it were. In some cases binders have been worn out in four or five years, or rather, weathered out, and we have seen instances where wagons were not fit to carry heavy loads after a period of ten years' service. Of course, it is a one-sided argument to point out the necessity of sheltering a thousand or fifteen hundred dollars' worth of implements because no man will be found who would object to an outlay of a few hundred dollars in an implement shed if such an outlay would double or triple the life of the implements. If our own observations are correct this waste is rapidly being headed off as compared with former years, but nevertheless, we claim that the suggestion which comes from this subscriber is timely and we pass it on without any intention of rebuking those who have been a little too careless in the past.

RATIONAL FERTILIZING OF LAND

A Kansas subscriber, who is apparently a close observer of conditions, calls attention to the fact that fertilized lands suffered more from drouth conditions in 1913 than land which received no natural or artificial fertility. Among other things he says:

One season is seldom like another, consequently the method of farming that proves better one year may not be the thing the next year. The season of 1913 proved exceptional in the extreme, and while it will not do to govern next year's work by what proved best this year, we have before us the behavior of certain methods of farming under dry weather conditions. It may be said that the behavior is so much different from the ordinary that results are striking.

In this connection, I wish to call attention of readers to the behavior of fertilized fields. It has made no difference whether the fertilizer used was common old reliable barnyard manure or fertilizer of the commercial sort, the result was much the same—an effect on crops decidedly detrimental. In the ordinary season these fertilized fields would have yielded most, but this year the yield was least, thus we see that a method of farming that proves best in a season of normal rainfall is more than likely to prove the opposite when rainfall is extremely shy, as it was this season.

On the theory that the past two or three seasons were rather on the dry order, and that the time had come for a change, we know of one farmer in eastern Kansas who invested heavily in commercial fertilizer to use on his corn land. He figured that there would be plenty of rain, so his fertilizer would raise him a big crop. As the opposite proved to be the case, his fertilizer worked the wrong way. While his corn crop started off in fine shape, it was first to show drouth effect and was first to be entirely beyond redemption. The burning effect was so much greater where fertilizer was used that even his fodder crop was much more inferior in quality than it would have been without the fertilizer.

So we say, what works best one season does not always work best the next. Just because fertilizer proved harmful this year is no reason why it will prove harmful next year; in fact we know that the rainfall will govern this, and as seasons so disastrous as 1913 do not come oftener than once or twice in a lifetime, we may go ahead with the use of fertilizer next season with little fear that it will work out as it did this season. Likewise, those who applied the most manure to their land last season have less to show for it than as if they had left the manure in the yards. No one, however, thinks of quitting manure hauling because of the ill effect of manure on the land, due to the almost unprecedented drouth, so no one should think of discontinuing the use of fertilizer of any kind. It is time now to forget the unusual season of 1913 and to go ahead with the methods of farming best suited to the ordinary season. Those who farm to suit another dry season will, no doubt, miss it just as badly as wet season methods of farming missed it this year.

The one conclusion that may be drawn from the season of 1913 with reference to the effect of drouth on production is simply this: That more and more emphasis must be placed, in the future, upon the importance of maintaining a good supply of humus in the soil. This must be kept in mind in applying fertility and that is why, in the main, fertilizer should be applied to pastures and to meadows. The effect of these is to stimulate root growth, and, in turn, when the roots decay humus or vegetable matter is added to the soil. With a plentiful supply of this organic matter crops are able to resist the effect of drouth to a much greater degree than where artificial fertility is applied directly to the cereal or grain crops. It must always be kept in mind that the water-retaining power of the soil is in direct ratio to its humus or organic content. By fertilizing grass lands we prepare the soil in an ideal way for the growth of crops that follow and particularly do we fortify ourselves against the disastrous effect of drouth conditions.

FARM ROADS OR SPEEDWAYS.

Secretary Houston, of the department of agriculture, gave his hearers at the recent good roads convention in Detroit a sensible talk on road building in general and government aid in particular. He declared that the government, so far as he is its mouthpiece and connected with its operations, is more interested in improving the truly rural roads of the country (those over which farm produce is hauled to market) than it is in improving the transcontinental highways which are mainly used by automobile touris s. He also asserted that if government aid is forthcoming it will be on the basis of state apportionment, rather than congressional district or county or road district. Secretary Houston's speech is such a clear exposition of the intentions of the present administration that we take a considerable extract from it:

The essential thing to be done is the providing of good roads which shall get products from the community farms to the nearest station and make rural life more profitable, comfortable and pleasurable.

There are complex problems to be solved in many states before the most efficient expenditure of money by states and communities for roads can be secured, and there are many more to be worked out before one can rationally expect the federal government largely to participate.

That the suggestion of federal aid to road building raises grave questions and involves possible dangers, no thoughtful citizen doubts. There are proposals before the public mind which would bankrupt the federal treasury and suggest possible abuses before which those of the worst pork-barrel bills of the past would pale into insignificance.

It would be especially pernicious if such aid should result in stifling the spirit of local self help.

The first practical essentials in the planning of road legislation would seem to be to recognize the states as the smallest unit with which the federal government might deal. This would give relief in a measure from the insistent demand that would come from every township and every district in the Union for its share of state or federal assistance, without reference to the merits of the case or the practicability of the undertaking.

In the case of roads on which federal money is to be expended it would seem essential and wise that the federal agency should have the requisite power of the approval of the selection, supervision of the construction and maintenance, and the right of inspection.

It is reasonably clear that for every reason there must be some automatic check upon the demands to be made upon congress and that this should be afforded through the requirement that the states and the localities should contribute an amount both for construction and maintenance at least equal to and possibly double that contributed by the federal government; and that, in the apportionment of any possible federal funds a number of basic factors such as population, area, wealth, or minimum cost of construction, should control, I have not the least doubt.

In short, as a practical program, I believe that this matter is one in which haste can best be slowly made.

Much has been heard on the subject of government aid in road building in recent years. Secretary Houston fears that considerable of the agitation comes from the promoters of automobile highways, rather than from those who sincerely want to improve actual, farm-used country roads, over which farm produce is hauled to market. It may be argued that the farmer is buying automobiles in large numbers, that he is a better motor-car customer, in fact, than the city man; and, therefore, the real country road must cater to automobile traffic as well as to farm wagon traffic. What the country is most interested in just at present, however, in the fight to reduce the high cost of living, is to cut down every factor that stands between the price which the consumer pays and the price which the producer receives. Secretary Houston is right so far as what he says applies to the importance of the real country road over the speedway of the tourist.

REVIVING OLD-FASHIONED SYSTEMS OF STOCK RAISING.

Men in middle life can recall the time when every corn-belt farmer was more or less extensively engaged in raising livestock. On every farm could be found a few good mares, some old sows and a number of big, square, useful dual-purpose cows. Here and there in every neighborhood can be found men who are still working along this line, but in the main the development of the range country has greatly altered the livestock situation, but the time has arrived when we must go back to first principles. A Missouri subscriber outlines the plan that he believes should be carried out in the future just as it was formerly carried out in the past. Among other things he says:

Back to the growing of young stock the farmers should go. There is a scarcity of hogs and cattle. The market keeps high and everywhere there is a complaint of the high cost of meat products. Horses and mules, too, are in demand for labor on farms. The man who must have a good team cannot get it for less than $400 or $500. Just the other day a neighbor of mine refused $650 for a pair of draft mares. He needed them and did not wish to sell, and they were first-class animals. The reason for this increase in prices is simply because farmers have turned their mind from stock growing to other things. They have been deceived with the idea that they could buy cattle, hogs and horses as cheap as they could grow them.

There was a time on my father's place when we grew our cattle and hogs for feeding. There were several brood mares from which we raised our horses and mules. We kept from twenty to twenty-five cows on the place the year around, and seldom had less than twenty calves and twenty yearlings coming on to the feeding age. The cows devoured all the straw and hay and fodder we grew on the place and turned it back to the farm in the shape of manure. By the addition of a little corn they got through to grass in fine shape, giving birth to healthy calves in the spring. We were never without five or six brood sows of the best breed we could get. From four to six mares were wintered, and we had young horses coming on each year. The sale of young horses and mules was quite a source of profit each year. At time for feeding cattle in the fall our bunch of two-year-old steers was brought from the pasture and put into the feeding pen. Sometimes a steer was purchased from a neighbor to fill out the bunch. The hogs to run after them were also brought from our own herd. At the selling time it seemed that it was all profit, and most of it was made right on our own place.

But times changed. Farmers took the idea they could buy western cattle cheaper than they could grow native stuff. Hogs were so cheap it didn't pay to raise them was the conclusion reached. No use to keep a lot of old mares around eating their heads off. As a consequence all of our cows were sold except one or two of the best milkers. The brood sows went into the fattening pen and the old mares were sold for a song. To Kansas City we went for cattle, and hogs were picked up wherever we could get them. Much of the roughness about the place went to waste. Straw ricks rotted down and stalks were plowed under in the spring. When cattle and hogs were sold most of the money went to the bank to pay off the loan for the Kansas City stuff, and I remember one year we lacked a couple of hundred dollars of having enough to pay off the bank loan. Cattle dropped in price and we lost money. While the cattle and hogs made us money as a general thing, yet it was not so profitable as when the stuff was grown right on the home place. Then the work teams grew old and died and young horses had to be purchased.

The thought that I wish to enforce is that the farmer should go back to producing hogs and cattle right on his own place. He should have young horses and mules kicking up their heels in his own fields. I am sure it will pay, and there will not be a shortage in stock on the farm.

One thing is certain, namely, that there is no new range country to develop so that men who take up the business of raising livestock need have no fear of the foundation dropping from under the industry. The condition of the meat supply the world over is such that even the removal of the tariff no longer fills the stockman's heart with fear. Viewing the matter on all sides it is doubtful if there ever has been a time in the history of this country when prospects were better from the standpoint of the man who raises good livestock than they are at the present time. This is sizing the matter up without having this year's markets or next year's probable values in mind, but rather looking ahead for at least a five and possibly a ten-year period. It is doubtful if there will ever be an oversupply of meat during the present generation; that is, a supply that will actually bring values down below the cost of production. We like the kind of prosperity that is always associated with the sensible handling of livestock and for that reason we endorse the recommendations made by this subscriber.

James M. Pierce

THE PUBLISHER'S VIEWS —ON— TOPICS of THE TIME

THE LESSON IN MEXICO.

NOTHING could more effectively prove the advantage of living in a country where there is freedom of speech and of action than the election fiasco in Mexico last week. Out of 3,000,000 men qualified to vote, less than 100,000 (only one in thirty) exercised the prerogative. Why? Because they were literally afraid to go to the polls and vote contrary to the dictator who snatched the reins of state, after the murder of the duly elected president and vice president, for whose safety he had given repeated assurances. It is a sorry state of affairs when people live in a so-called republic and then are not permitted to exercise the greatest of all prerogatives: the right to rule themselves.

Sometimes it may appear to the average farmer as though the right to vote were not such a great boon, after all. So many corrupt men are kept in office by the vote of the rough and vicious element of the cities. Sometimes it is discouraging to quit the work of the farm and fields to devote a half day to driving to and from the polls, and then see the town vote more than offset the farm vote and some scalawag be elected to office. But is it not far better to go on, year after year, voting for the best man, even when it is a foregone conclusion that he cannot be elected, rather than to lapse into the chaos in which they are now in Mexico and be afraid of your life if you do not vote right?

I have come to the conclusion that the real cause of the trouble in Mexico is the low condition of the farming class. Immense plantations, of hundreds of thousands of acres, are owned by absentee landlords, who seldom, if ever, see their property, know nothing of the crops except that they produce the money which they dissipate, and have no real, direct interest in the welfare of the country or the people. The actual farming work is done by peons, who are little more than slaves. They know little or nothing, are afraid to speak out when they do know something and are kept in a sorry state of subjection.

It is the lesson of history that no nation can continue or be steadfast which is not founded on a sound and stable common people. The high standard of the common man (whether he be farmer or city dweller) is the great glory of our country. If Mexico is ever to rank alongside the United States it must elevate its plain people and make them unafraid to exercise a man's prerogative, without fear or favor. When Mexico is farmed by men such as those who are making the crop wealth of the grain belt roll high into the billions year after year, it will no longer be a country where anarchy reigns, where men are afraid to speak their minds and where no man knows what day he may feel the mailed hand of tyrannical power closing over his throat.

GOOD ROADS AND PUBLIC HEALTH.

WE HAVE heard a great deal about the financial and the economic value of good roads, and there is no denying the soundness of the arguments along these lines. I personally know scores of instances where the value of farm land has been increased $10, $25 and even $35 an acre simply by building good roads, which bring the farms within easy reach of the nearby town or city. I likewise know many cases where the vexatious problems of keeping the boys and girls on the farm, and of securing help when needed, have been solved by building good roads, which make it possible for the young folks to get back and forth between farm and town in short order, enjoy an automobile ride or a spin behind a fast horse, and which remove the objection of loneliness too often urged by the hired man.

But it was only this week that the value of good roads from an altogether different angle was presented to me. I do not see why it is that we do not hear more about good roads as conservers and preservers of bodily health. Can't you readily see the connection between the two? Bad roads mean stagnant pools, breeding mosquitoes to carry disease germs around the country; they mean weeds and trash in which fever-laden flies germinate; they mean lack of sanitary drainage; they mean generally low-down, slipshod conditions of the entire neighborhood. Isn't all this so? Can't we, quite logically, assign three reasons for good roads, from the viewpoint of public health?

First: The removal of weeds and trash.

Second: Providing drainage for stagnant water.

Third: By example, compelling farmers to clean up their barn yards and premises.

I am very much pleased to see that the board of health of one of our grain-belt states has taken up the campaign along this line. I am going to give their argument, at length, because of its soundness:

> Weeds and trash prevent the prompt evaporation of moisture and promote retention of the ground water. This makes ideal breeding spots for mosquitoes, flies and other insects which are known as disease carriers, not to mention chinch bugs, hoppers and other insects which are crop damagers.
>
> Many farms have no means of drainage except by ditches along roadways. Open ditches, clear of brush and debris, with hardened surface and proper fall, afford these farms the opportunity of ridding themselves of many a stagnant pool. Road oiling in itself is destructive of insect larvae, especially mosquitoes—a well-known fact.
>
> Dry roads offer pedestrians, and notably children who are compelled to walk to and from school, dry shoes and feet. It is a well-known fact that cold, wet feet and chilled limbs lead to infections of the respiratory passages, including pneumonia and tuberculosis.
>
> Good roads promote travel of those highways and in themselves they set example to the farmer whose premises are bordered by them. The comparison of a well-graded, clean highway with an unkempt and trashy barnyard adjoining is sufficient to stimulate every land owner to a clean-up. Pride compels him to offer to passers-by a neat appearing and attractive house and barnyard. The results are only too obvious. Good roads are active disease prevention agencies aside from their financial and commercial value.

I have long been convinced that good roads mean good farms, good farm homes, good rural schoolhouses, a generally higher plane of country life. Let's add good bodily health to the assets. There is nothing more important than the health of loved ones and those dependent upon us. If good roads will minimize such scourges as typhoid, diphtheria, dysentery, pneumonia and malaria, should we not join in the campaign to secure them with a wholehearted enthusiasm which will stop at nothing?

A GIFTED WOMAN, MUZZLED.

I SPENT a couple of hours yesterday talking with one of the best educated and most charming women it has ever been my pleasure to meet. She is a farm woman, living on 160 acres of splendid grain-belt land, which she and her husband have completely paid for by hard but loving labor. She has reared a family of five children, three sons and two daughters. Three of them have already been sent away to school, two to the state agricultural college and one to a technical training school back east which is noted for its thoroughness. The money which educated the oldest child was earned by the devoted mother, with her flock of hens, at a time when every cent which the father could rake and scrape together was needed to pay off the last indebtedness on the home place. This farm mother was one of the leaders in the movement to start a neighborhood club, consisting of twelve farm families, who meet once a month, in rotation, in the various farm homes. A picnic dinner is served, in summer, on the lawn; in winter there is a "homey" spread in the dining room, the tables literally groaning with good things to eat. After the inner man and woman have been regaled, and the children have started playing games, men and women join in a literary and musical program in the sitting room. They discuss current events, politics, men and measures all over the world. The subjects range from the crisis in Mexico to the county farm adviser; from the income tax to the latest novel or musical composition or picture. This woman with whom I was talking yesterday can tell you the names of every member of President Wilson's cabinet; she knows what the Department of Agriculture, under the efficient direction of Secretary Houston, is attempting in the way of improving farm conditions; she reads a daily newspaper, a half dozen magazines and the best current books. She is refined, educated, cultured, a woman qualified to serve a whole state or nation, yet content with her routine home duties.

This woman is permitted no voice whatever in the government of the county, state or nation. She must remain absolutely silent, while some ignorant, low-down, riff-raff negro, kicked off the deck of a down-river steamboat and lolling in the sun without thought of country or anything but the next meal, is allowed a voice and vote. It is a flagrant injustice which should not be permitted any longer than laws can be enacted to stop it.

The middle West is full of such brainy farm women as the one I have in mind. The hair of many is silvered now; they came to the West when they were young. They have played a part in the upbuilding of the great agricultural empire of the Mississippi valley. They helped their husbands build the cabins where their honeymoon was spent, where the first child was born; they aided in the laborious work of grubbing a foothold in the virgin sod and bringing the quarter section to its present high state of cultivation. They bore sons and daughters who are now making the laws and doing the big, really-worth-while things of life. All honor to the pioneer women of the West whose story is the story of the founding and upbuilding of an empire. And yet no matter how gifted, how devoted, how noble are these women, in only two states out of the twelve of the grain belt (Illinois and Kansas) have they the right to vote, and in one of these to a limited extent only.

I cannot understand the opposition to woman suffrage in the grain belt. I can understand it in the South and the East; the political bosses know full well that they are kept in power by the ignorant, purchasable vote of the negro and the fanatical, foreign anarchist. But here in the grain belt, why is it that the vote for women has so long been withheld? It must be only because the men have given the subject all too little attention; they have let a shallow prejudice warp their better judgment, their common sense; they have waited for the big centers, back east, to take the lead, forgetting that it has almost invariably been the grain belt—the agricultural section of the grain belt—which has blazed the way in every political and economic reform.

I earnestly hope the day is not far distant when this unjust discrimination will come to an end, when my wife and my daughter can accompany my sons and me to the polls and express their choice for every office, from township clerk to president of the United States. I believe that day is coming. Will not every one of my readers join in bringing it to pass, without delay?

James M. Pierce

EFFECT OF LIME ON SOILS.

Lime is not a fertilizer in the correct sense of the word. The addition of fertility to a soil means that there is added to it one or more of the three elements, namely, nitrogen, phosphoric acid and potash. While lime is used by plants the amount that is utilized in that way is so small as to be negligible and we must therefore look to another effect if we are to ascertain why it is that so many soils are benefited by an application of lime.

One effect of lime on a soil is to liberate the real elements of fertility, particularly phosphoric acid, from the inert materials in the soil. Under certain soil conditions phosphorus is not easily available to plants, but the application of lime results in new compounds of plant food whereby the phosphorus becomes more accessible. In this way the addition of lime to a soil really results in feeding plants more liberally with phosphoric acid. The same also applies to potash, an element which is frequently locked up in unavailable forms. When lime comes in contact with these inert potash compounds a very striking chemical change takes place resulting in the potash being liberated or rendered available. In other words, the lime takes the place of the potash in the compound, thus leaving it in condition to be used by plants. In some respects lime may therefore be called a soil stimulant because while it increases productiveness this increase is due to the more rapid liberation of real plant food elements.

Lime, in addition, corrects soil acidity and its application is always desirable where soil shows any degree of sourness. Legumes do not flourish on acid soils and no agency has yet been discovered that will so quickly and completely neutralize acidity as will lime.

ADVERTISING FARM PRODUCTS.

A New England farmer visiting the grain belt recently was impressed by the fact that while farming is at a high level in the West, the average farmer is overlooking a golden opportunity by not using more printer's ink. He does not necessarily mean the use of ink in advertising special auction sales of stock, but in persistent, week-after-week advertisements of current produce in the weekly or daily newspapers of the section. His views are of such interest, we print them in full:

> Up my way there are any number of farmers who run advertisements regularly in both the weekly and daily papers.
>
> These are not advertisements for the sale of a certain lot of stock or grain, but regularly inserted advertisements calling attention to their farms and the character of their production. Frequently the advertisements include pictures of the barns and dwellings and pasture scenes.
>
> The producers have found that it pays. In all the towns are eager buyers for all sorts of stock and farm products and they read these advertisements of the farmers. By them they learn Joseph Brown has a hundred head of fat hogs, and makes a specialty of raising that class of stock. Also that he has a fine large poultry yard, and always has on hand a good supply of fowls. Another man has made a specialty of certain grain or vegetables, and he tells about it in his advertisements.
>
> Of course this farm advertising yields good results only where the roads are good. Most New England highways are first-class. Buyers won't go out from the cities when the roads are bad unless they are awfully hard up for stuff. But they will go in swarms when they can get about easily, and then is when the live farmer finds it pays to advertise.
>
> If farmers would advertise out here they could get the same results, but they have to look well after their roads first. The farm advertiser not only

gets business from the towns, but from his neighbors as well. They see he had a big stock of something they may be short on and they hunt him up and make a deal.

The day of the business farmer is close at hand. Good farmers have private offices in their homes or farms, equipped with roll top desks, typewriters and printed stationery. Many of them have given their estate some attractive name, which looks well on a letter head and helps to get business. Then the modern man keeps a complete set of books, setting down his income and expenditures, and when the end of the year comes he will know to the cent what each crop has netted him, and which crops have been a loss.

Since the installation of parcel post, the experiment of advertising butter, eggs and fresh produce in the weekly or daily newspaper of the near-by town, has been tried by many farmers, with varying results. Some of the larger daily papers have established regular parcel post advertisement departments, similar to those which the English papers have found so popular for a number of years past. As a general rule, it is safe to say that when the advertisements are attractively written and offer bargains, which may be secured easily by the city consumer for less money than he is obliged to pay at the town stores, they are productive of good results. Advertising certainly pays, when properly planned and executed. If the farmers of New England find it profitable to tempt the city buyer by advertising their fresh produce, it would seem as if there were no reason why the grain-belt farmer should not do likewise. Provided, of course, that a ready and steady market is closely available and that the roads are such that the buyer can easily visit the farm or the farmer easily get his stuff to market while it is fresh and attractive. The experiment would seem to be worth trying.

THE COMING INTERNATIONAL LIVE STOCK EXPOSITION.

In less than a month the great International Live Stock Exposition will be under way in Chicago, the date this year being November 29th to December 6th. We are informed by the general manager, Mr. B. H. Heide, that this year's exposition will in many respects excel former records. Improvements have been made that will add greatly to the comfort of exhibitors and the same care will be taken as heretofore in making the exposition pleasurable to the visitor.

It can be said without fear of contradiction that there is no such exposition as this held at any other point in the world. If it is true that in the breeding classes it is equaled by some of the English or Scottish shows, it is equally true that taking into consideration the car-load fat-stock entries the record of this annual show has never been duplicated anywhere. It is impossible to place anything like an accurate estimate on what has been accomplished by this institution in the interests of better beef cattle and in behalf of the draft horse. It is indeed a clearing house of these great interests and progressive stockmen throughout the length and breadth of the land are more and more participating in the benefits that are to be obtained from attending this great show.

The International Live Stock Exposition has been successful in every sense of the word, particularly so in its educational endeavors. It has maintained the highest possible standards in all the work of judging and as a result premiums won at this show carry with them greater honor than those conferred by any other institution of like character.

This paper has been going to large expense every year since the International was established to report every department in detail and this plan will be pursued this year as well. We consider the exposition the most important agricultural event of the whole year as affecting the livestock industry and holding this belief it is but natural that we should desire to have a very large number of our readers enjoy the benefits of this great exposition.

FEEDING CATTLE—BY THOSE WHO KNOW HOW.

Extensive feeding operations will be carried on this season in the territory covered by the Iowa Homestead. This is indicated by the number of stock cattle that have been brought in from the great Southwest and West. Feed is high in price and if there is one plan that is more economical in feeding operations than another knowledge of that plan should be widely disseminated.

This subject is so important that we believe that it will be exceedingly profitable to all concerned if there is a somewhat extensive exchange of views in these columns pertaining to feeding methods. To this end we propose to inaugurate a contest and will ask our "feeder" readers to submit their methods of feeding, going somewhat into detail as to the kind of feed used, the kind of cattle fed and the resultant gains. To the one who sends the most practical and up-to-date article on feeding methods employed by the writer himself, we will pay $5 in cash. To the writer of the second best article a $3 cash prize will be given and all those who submit articles on this topic will be appropriately rewarded for their effort.

We take it for granted that in some cases good results will be reported in regard to the feeding of ensilage, while in other instances men who have not had experience in feeding ensilage will desire to give the results of their feeding operations. We shall be pleased, indeed, to hear both sides of the question discussed in a lively manner.

SICK AND TIRED OF FARM WORK

It is not surprising that farm boys and young men are not always enthusiastic over the kind of work they are called upon to perform. In this respect they are not unlike the lads who are reared in towns and cities. In either case the tasks of the other fellow always appear a little more interesting than the ones we are engaged in ourselves. This is noted particularly by the farmer boys during seasons of bad weather. As corn-husking time comes around it often happens that we have a week or ten days of most disagreeable weather and yet through a considerable part of it the work of husking, as well as the labor of choring, must be carried on under practically a full head of steam. This is the condition that palls on the farm boy and it is not unusual to find instances where there is a very strong desire and a desire often put into action to quit the whole thing there and then, turn his back on farm work forever and seek what looks to be the lighter forms of labor found in the towns and cities.

We recently met an eighteen-year-old lad who, while in this frame of mind, made a journey of practically 300 miles. He had a few dollars left at the end of his trip, and realizing the necessity of beginning to earn at once, found employment in a railroad grading camp. The wages to him seemed relatively high, and his work as a teamster on the scraper at first seemed agreeable because others did the work of loading and unloading the scraper. He had spent one week at this new form of labor, and at the end of this time was one of the most humble individuals that you can imagine. He had thrown up his job to return to his "folks" deeply impressed by the lesson that there was no place in all the world like the old farm home. When asked about the kind of treatment he received and how he enjoyed it, he said:

The foreman of our camp seemed to be a man who could not be satisfied no matter how carefully one tried to perform his work. In the main he had to deal with a class of foreigners that seemed to me to be exceedingly stupid, but I prided myself that I was an exception as I had been handling horses all my life. If I had any superior skill the foreman was unable to detect it because abuse accompanied every order that I received. The food we were furnished was fairly good, but it was eaten from the bare boards and, believe me, I was not reared in that kind of an atmosphere. We bunked in box cars and were literally packed in like sardines. There was so little ventilation that the atmosphere was vile and as bathing facilities were never good you may take it from me that one who had been reared in a comfortable farm home found it unbearable. The men in the main were spendthrifts and to my knowledge not one single man in the camp was saving a dollar. As soon as they received their pay each week it was very quickly spent in drink and in other ways equally as harmful, so that work was begun by every man on Monday morning without a cent in his pocket. All my life even as a boy I had spending money and I was taught to use it wisely and not to squander it as soon as I came into possession of it. These fellow-workmen had not been so taught and the spendthrift habit seemed to be absolutely fixed. I have just enough money to take me back home and I have had sufficient experience in this outing to demonstrate to me that when I get back into our old neighborhood there will be no locomotive strong enough to haul me out of there on any such errand as I have run in this case.

We know farm boys well enough to understand that this very thing is going on all the time, that there is not a week but that in every neighborhood boys and young men have become soured on farm life. They believe that they are obliged to work hard, that there is too much of a sameness about their labors and the cure-all to them is to be found in cutting loose from the farm and taking up new forms of labor among strangers. We would that it were possible for us to point out all the disappointments that are in store for lads whose heads get swelled up in this way. The experience of the individual given above may cause some of those who read these lines to give the matter a second thought before the die is cast. Sometimes these escapades are not so easily terminated as was the case in the instance given and not infrequently blunders are made at such a time, the effect of which can never be overcome.

THE IMPORTANCE OF WINTER VENTILATION.

While ventilation of the stock and poultry buildings is essential in summer it is doubly so during the winter months, as the period of confinement is much longer in that season, the crowded conditions and deposit of manures also adding to the unsanitary and unhealthy surroundings.

There are two classes of farmers who err in this respect. One thinks he cannot make the stalls and roosting places too snug for the inmates, which causes them to breathe and rebreathe the vitiated, poisonous air till their entire systems are weakened and diseased. The other class admits the air with little or no system to his methods of ventilation, thereby often more than counterbalancing the good effect of the fresh air by causing various ailments to be established among the herds and flocks through various ways.

What might be termed a "happy medium" between the above-named extremes in winter ventilation is the point toward which every farmer ought to strive. It is, of course, imperative that all the stock and poultry about the farm be furnished with comfortable quarters during the winter months, and correct ventilation not only promotes the good health of the animals, but a well-ventilated building actually is warmer and more comfortable than the one that has little or no ventilation, as the fresh air carries in that essential element to produce heat, oxygen.

There are some well-established principles that must be closely followed in supplying stock and poultry with fresh, pure air during the winter months. Air admitted through manure holes at the rear of stalls is far from proper ventilation. The same is true where air sweeps in at the bottoms of doors or under boards in the farm buildings. These openings as a source of air-supply should be kept tightly closed while the animals or poultry are in the stall, but when the buildings are vacated, these openings should be thrown open to assist in the airing out and purifying of the interior.

The air supply should enter a building in front of and above the animals in the stall. The outlet for foul air should also be in front, and still above the opening for admitting the air, since the fresh air, being heavier than the foul air, rushes in and forces the latter upward. Thus it is best if one can arrange the ventilator or other outlet opening near the center of a building so that, in case of a strong wind from either direction, the entrance of the fresh air will not be opposed from that direction, nor the rising and passing out of the vitiated air be checked. At no time should the air be permitted to form a draft over the animals or poultry in a building, as colds and numerous kindred ailments would result.

By the fresh air coming into a building as above advised the housed stock or poultry get the beneficial effect of it at once, before it has passed over the filth and dampness of the stall or roosting place. This furnishes them with a bounteous supply of the life-giving oxygen and enables them to throw off the impurities of the body, whereas, in case of an insufficient or improper air-supply, the inmates of the building breathe and re-breathe the polluted air till their bodies are poisoned and diseased. Improper ventilation accounts for colds, roup, kindred ailments, and a reduction of the egg yield in the poultry house; it establishes colds, influenza, and pneumonia among the horses, causing them to lose their normal vigor, hardiness, endurance and propagating qualities; in the dairy its damaging effects decrease the general health of the herd, lower the milk-producing capacity of every member, wield a most deteriorating influence on the quality of the dairy products, and in the end is, without doubt, the leading factor in establishing that dreaded disease, tuberculosis; it establishes colds, rheumatism and kindred diseases among the sheep and hogs, lowering the general health and stamina of the herd and flock to a degree that will result in a considerable falling off in the profits that should accrue from these sources. This supplying of pure, fresh air must not be spasmodic, at intervals only, nor in great abundance at one time and in limited quantities at other times—it must be furnished conservatively and regularly every hour, day and night, the inlet openings for air being regulated as to size according to the volume and speed of the prevailing wind.

SOUTH AMERICAN ACTIVITY.

That South America looks forward to the day when its immense undeveloped tracts will be farmed as scientifically and as productively as are the richest sections of the United States is evidenced in more ways than one, none more conclusive than the eagerness with which various South American countries are engaging American farming experts. Here is the latest evidence in a newspaper dispatch from Washington:

Argentina is about to obtain the services of two agricultural experts from this country, it was learned here today from unofficial sources. They are Dr. A. D. Melvin, who has been chief of the bureau of animal industry since 1905, and Willet M. Hays, formerly assistant secretary of agriculture. The former's work will be along the same lines as in this country, while Professor Hays will be engaged in the development of rural economics.

Dr. Melvin is now on his way home from Argentina, where he went several months ago at the request of Secretary Houston to study conditions of the meat industry of South American cattle exporting countries. When Dr. Melvin left here it was expected he would be gone about six months.

The department of agriculture in the last few years has furnished a number of experts in various lines to South American countries, among them being Dr. Melvin's predecessor, Dr. Daniel E. Salmon, who returned only a few months ago from Uruguay.

The agricultural possibilities of South America can hardly be overestimated, provided the human equation (the working element) can be brought up to the standard it has attained in America. Tropical conditions may make this impossible, but South America intends to try the experiment thoroughly and without undue waste of time.

If the horse is of a nervous habit always give him warning by voice before you approach, says the St. Louis Globe Democrat. Never step up behind him suddenly and startle him. If it is inherent viciousness, better give him to understand that you are master by giving him a few lessons for subduing just such cases. Then, when you step up to go into the stall, tell him sharply to "stand" over, watching your opportunity to glide up to his head and take hold of the halter. You must not do this until you see him quail a little under your eye. If the horse is treacherous better have a looped cord over his nose, running back out of the stall, and as you step up and give your command give it a sudden jerk, which will distract his attention and give you the desired chance to slip in. Not the least sign of fear must be shown in action or voice. The horse is an acute observer in this direction.

Charcoal is recommended as an absorber of gases in the milkroom where foul gases are present. It should be freshly powdered and kept there continually, especially in hot weather, when unwholesome odors are most liable to infect the milk.

I Use SalTone On My Own Stock Farm

JOHN E. ROBBINS, Stockman

Mr. John E. Robbins is the President of this Company. He manages its affairs himself. Mr. Robbins has been raising hogs, cattle, horses and sheep for thirty years. He probably knows as much about the feeding and care of farm animals as any living man.

In compounding SalTone Mr. Robbins was assisted by Dr. C. B. Ainsworth, the well-known veterinarian. The SalTone formula has been worked out from both the practical and scientific side. Experience shows it is just right. Mr. Robbins has not lost one animal from parasitic diseases in the last twenty years. Farmers who have tried SalTone know it is right, too, and say so.

All Farm Animals Wormy?

Yes, practically all of them are; authorities say nine-tenths of them. You may not *see* them, but that's the worst part of it. If you could see the worms you wouldn't stand for them a minute. These parasites fasten themselves to the stomach and intestines of your animals where you can't see them.

If you will give your animals SalTone you will see very quickly by the way they pick up that they were wormy. SalTone is a medicated salt, not a food. Animals take it like salt. It's a tonic to the animal, but *sure death* to intestinal parasites.

How Do They Get the Worms?

They pick them in the form of larvae from the grass. A larva is a maggot, the second stage in the development of the worm. The egg is the first stage, the larva the second, the worm the third. Like the butterfly with its three life periods—the egg, the caterpillar and the butterfly.

Eggs, maggots, worms; then more eggs. There is neither beginning nor end—no, that's a mistake—there's an end and a mighty sudden one *if you use SalTone.*

Self-preservation Parasite Law

Nature has given all living things the means of perpetuating their existence. To the thistle she gives a soft, downy balloon with which to start out in life. She gives the maple seed-wings, the dandelion a parachute, and to other weed seeds nice little hooks to use in grabbing anything that happens to come their way. Then they start out for a free ride to some distant point where they can begin life away from the crowd at home, just as country boys like to leave the farm and go to the city and city boys long for the country.

Let's begin with one of these common forms of parasites—a worm in the stomach of one of your hogs. It lives in the dark and has only two objects in life—to live and to reproduce itself. But it's nice and comfortable down there, and unless you take a notion to give your hog some SalTone this worm has nothing to worry about, so it lives by eating *the food you gave to your hog.* It reproduces itself by laying eggs.

Plenty of Eggs

These eggs do not hatch out in your hog's stomach. No, indeed; nature has fixed that. Just as nature gives the thistle an airship in which to sail away to new fields, she fixes the worm eggs so they cannot hatch until they get away from the parental roof. The eggs simply pass through the animal and are dropped to the ground. The mother stays at home and lays more eggs; her children have to shift for themselves. But, never mind—*they know how to do it.*

Then Come the Larvae

These eggs after dropping on the ground, lie there for some time and then hatch out into maggots. If the weather is warm they hatch out quickly; if it is cold they wait until spring. Then these larvae crawl into the little pools of water or climb upon the blades of grass that are wet from the dew or rain. Until something happens they will be nothing but just plain, nasty maggots. Let's see what *does* happen.

And Then the Stomach Worms

Along comes another of your hogs and takes a drink of water from the pool, or he sees a nice, juicy blade of grass and bites it off and swallows it, maggot and all. The maggot clings to the hog's stomach and then gradually another change takes place. You have seen a tadpole change into a frog? Well, this maggot gradually changes into a stomach worm and proceeds to lay *more eggs*—and there you are.

Can You Beat It?—You Can

You can beat this worm proposition provided you tackle it at the right time, the right place and in the right way, but you can't do it otherwise. You can't destroy the eggs in the grass; you can't even find them; you can't destroy the larvae in the grass for the same reason. There is only *one place* where you can take a link out of this endless chain and break up the combination—you can kill the worm that lays the eggs while it is in the stomach of your hog; *you can do it with SalTone.* When you kill the worm you put an end to the whole business, because no worm can carry on operations in the stomach of an animal that can get SalTone. SalTone drives the worms out and *keeps them out.*

What Does It Cost?

What does it cost you to do nothing and just let the worms keep on? Nobody knows. The Agricultural Department guesses that *$50,000,000.00 a year* is a low estimate. One thing sure, wormy animals can't possibly thrive like worm-free ones do. They can't gain in weight so fast. The worms won't let them. You can pour feed into them just like you got it for nothing and the worms always get their share *first.* The more you feed the animals the **stronger** and **more plentiful** the **worms** will be. You not only lose the food and the gain in weight that your animals ought to make, but everybody knows a wormy hog is not a healthy hog, and that a hog weakened by worms is the first one to fall a victim to cholera, pneumonia and other diseases.

What does it cost to get rid of the worms? Honestly it's so little that it's almost silly to talk about it. For the price of a *nickel cigar* you can keep one hog in perfect condition for sixty days—two solid months.

Is It Worth While?

It certainly is, and we will tell you why. Listen! We are going to prove to you that it's worth while for you to use SalTone. We are going to send you 100 pounds of it absolutely free of cost, except the small freight charge, and let you *try it for 60 days.* If it drives out the worms, tones up the animals and puts new life into them, then you pay us for the SalTone. If it doesn't, tell us so, and we will *cancel the charge.* You know we could not make this kind of an offer if we only **thought** SalTone would do these things. We have got to **know** it. You want to give SalTone a chance to save you money, to make you money, don't you? Of course you do. Then send us *the coupon* on the left. Do it today.

Thousands of Farmers Have Endorsed

SALTONE

The Great Wormicide and Conditioner

I feel quite an interest in SalTone. Before buying it I bought a similar remedy, but found it not half so good as SalTone. SalTone is "Al," and I appreciate it to the highest degree, because it has made my stock look many times better than ever before. I will never be without SalTone again and will recommend it to all my neighbors.—**Albert Miller, Batavia, N. Y.**

Our sheep exhibits at eleven fairs in 1912 won over $1,100.00, being defeated in few instances in a single class. We have fed SalTone, your medicated salt, for eighteen months, and our men are very enthusiastic about it. In fact, we would not think of raising Shropshires without SalTone to keep them in perfect health and free from intestinal worms.—**Zelora Green.**

SalTone is surely great. I saved a bunch of 30 hogs that certainly would have caused me loss without it. I would not do without SalTone as long as I had a hog on my farm.—**Louis Kautz, Higginsport, Ohio.**

I received your SalTone and have given it a fair trial, and find that it does all that is claimed for it. I do not expect to be without SalTone again.—**W. M. McMillan, Albany, Mo.**

Forty sows bred to "Big Defender," and al conditioned with SalTone, averaged in my sale $115 per head.—"**Big Feet**" **E. C. Caverly,** famous hog breeder, **Toulon, Ill.**

I am more than satisfied with SalTone I consider it the best stock tonic on earth. Every stockman should have a supply.—**Fred N. Greiner, Branchville, Indiana.**

SalTone is a great worm destroyer. We feed it to our imported horses and Hampshire hogs.—**J. Crouch & Son,** well known stockmen, **Lafayette, Ind.**

SalTone is the best stock remedy I have ever used, and I will not be without it again.—**Henry Meyer, Shattuc, Ill.**

Prices

40 lbs., $2.25; 100 lbs., $5.00; 200 lbs., $9.00; 300 lbs., $13.00 No mail orders filled for less than 40 lbs. SalTone is sold in "trade marked" packages—not in bulk.

Thousands of Dealers Now Sell SalTone

Ask Yours for It

The John E. Robbins Co., Greensburg, Ind.

THE JOHN E. ROBBINS COMPANY, Greensburg, Ind.

Ship me your special 100 lb., 60 day trial order of SalTone. I will pay the freight and tell you in 60 days whether it does as you say and if it does will pay for it. If it does not I owe you nothing.
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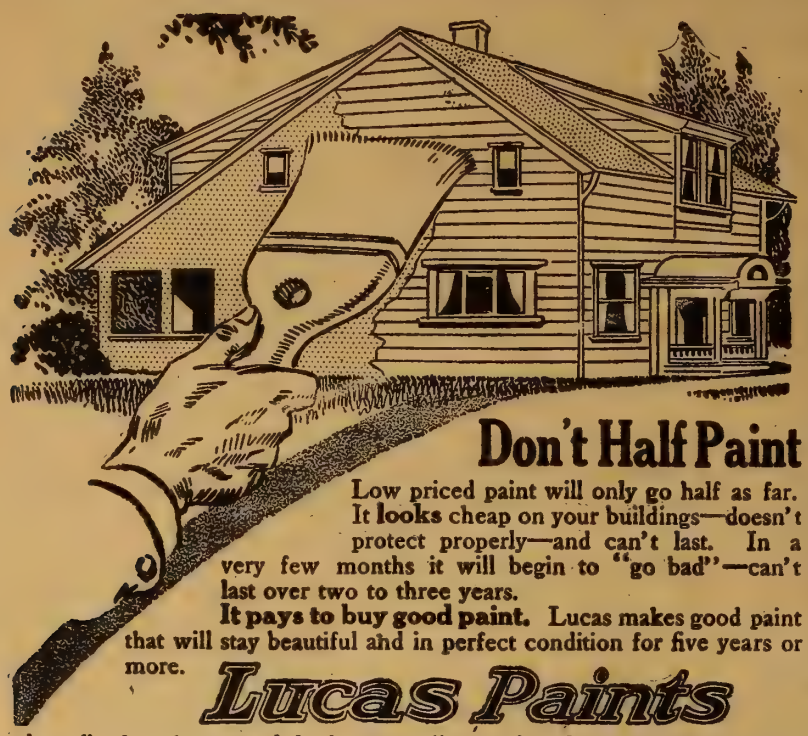

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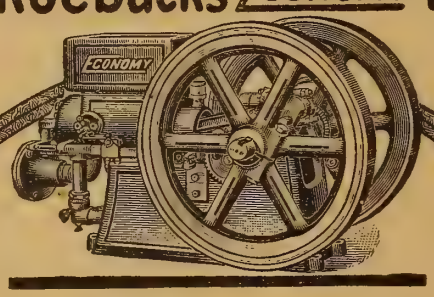

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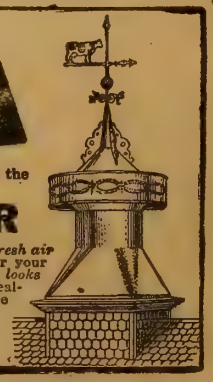

GALVANIZED STEEL CUPOLA CO.
1177 Vine Street Owatonna, Minn.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Horses and cattle were not intended to be wintered together in the same lot, and when it is a case of mules and cattle the combination is even more to be avoided. Mules are a nuisance with cattle in either lot or pasture. A mule will often get the better of a new-born calf in short order.

The only way some folks take an interest in their district school is to gossip about the teacher.

I find that dragging a road before it has dried sufficiently is work thrown away; travel only cuts new ruts behind the drag. Wait until the soil packs under the travel before dragging.

Public sales are going on full blast, with good prices for all stuff of value. Horses, perhaps, are not selling quite as high, as the winter feed bill looks big to purchasers, but towards spring prices will no doubt go higher. The outcome of the sales certainly does not indicate that the country is "going to smash."

If you want to keep sweet potatoes as long as possible, pick out solid, perfect specimens and wrap in newspaper and pack in barrels or boxes, then store in a dry cellar or cave. I know by experience that any potato or apple will keep better and longer stored in this way.

Knowing that all seeds will be high in price next spring, more farmers than ever before are getting hold of what they need this fall, before everything gets in the hands of dealers and speculators. Last week I bought four bushels of alfalfa seed I expect to sow in the spring, and also got the same amount for neighbors. We all figure the price will be $2 to $3 higher in the spring.

The man who would winter stock cheaply this winter must expect to make liberal use of wind, as both hay and grain will be high in price. We used to hear a good deal about roughing horses through the winter, but this time even the "roughing" will be costly.

The neighbor boys are getting traps together for a winter round of trapping. There is both money and fun in it, and sometimes, when a certain smellful animal is caught, there is a third quantity to be reckoned with. A boy never minds the smell, however. All he thinks of is to get a whole hide.

In grandfather's time when a new ax or hammer handle was needed it was shaped out of the best timber grown on the farm. It took a little time to make it, but the handle would last half a lifetime, barring accidents. Nowadays, we visit the hardware store when we want a handle, and pay a good price for an article that does not last long. This generation doesn't seem to care so much if an article is shoddy, just so it is easily obtained.

Don't peddle hearsay, particularly about school affairs. Hearsay never is improved by the passing, on process, and very often it causes trouble in an otherwise perfectly harmonious school district. Parents upholding the doings of the mischievous scholar are also troublemakers.

The automobile may have its drawbacks like all other things that are worth striving for, but it also has many good points in its favor. That it will be a great factor in bringing real good roads goes without saying. In a way it brings neighbors closer together and makes the farm more pleasant to live on. According to my notion the chief drawback about the automobile is that quite often a weak brain guides the hands that are on the steering wheel.

Five cents per bushel seems to be more than the farmers in this vicinity are willing to pay for corn husking and quite a number have bought machine huskers. One of these with an elevator at the crib makes short work of a cornfield, but it must be admitted that the expense account is nearly the same.

A coat of whitewash will make the barn or stable lighter and more pleasant to work in and also more pleasant for the cows and horses that must stay in about all the time from now until spring. The habit of whitewashing must be acquired like all other habits. The first coat comes hard, but after that the succeeding coats are easy.

Any fine day from now on is the right day for wrapping young apple trees to prevent the rabbits from girdling them when the snows come. Don't forget to bank them up a little with fine earth or the mice will be quite likely to damage them. It takes a lot of work to get an orchard started, but when the trees come into bearing the hard work will soon be forgotten.

Where both landowner and tenant are "soil robbers" it will not take long to put the farm in the proper shape for them. We all feel that safe-breakers are served right when they get away with only a few pennies or postage stamps for their work and all robbers should be in the same class.

The "weeding out" of dairy herds has been advocated quite strongly during the past few years and no doubt the practice has been of advantage to those who are trying to build up dairy herds. It has also been of advantage to beef raisers. The price that those dairy "weeds" have been bringing has opened the eyes of many to the possibilities of the beef type of cattle.

It is quite generally understood that all seed grain should be run through the fanning mill and only the very best selected for seed. If as much care was used in selecting the bull that is to head the herd for three or four years we would have less "weeding" to do in beef and dairy herds.

CORNSTALK DISEASE.

The department of agriculture has given out the following statement with respect to the danger of turning cattle into fields with standing cornstalks and to show that stalks should be cut and cured and fed in the barnyard:

Farmers in the corn belt, especially in the middle and upper Mississippi valley, have at various periods experienced loss of cattle pastured on standing cornstalks after the corn has been harvested in the autumn.

An element of mystery has surrounded the death of cattle in these instances. The disease is characterized by a very rapid course; in fact, very commonly there are no premonitory symptoms, and it is not unusual for the owner upon visiting the field in the morning to find one or more fat cattle dead which on the previous evening were apparently in excellent health.

Another peculiarity of the disease is that losses may occur on one farm or in one field while cattle on an adjoining farm or in an adjacent field may be free from the affection.

Various investigators in the past have attempted to discover some germ or some toxic substances which might be determined as the cause of this condition, but thus far the cause of the disease has not been established.

As death of stock from this affection is generally sudden and there is little opportunity for treatment, animals should not be turned into a field with standing stalks.

As a matter of fact the disease may be actually prevented by cutting the stalks early and only feeding them after they have been carefully cured and removed from the field. Losses from feeding on standing cornstalks emphasize the economic value of cutting the corn and feeding the stalks in the barnyard or corral, or, better still, shredding the dry stalks, under which conditions they may be fed with the least possible waste.

The so-called cornstalk disease should not be confused with poisoning from eating sorghum. Deaths among stock from eating sorghum have been traced to prussic acid poisoning, which poison the sorghum under certain conditions of growth has been found to contain in combination.

THREE BIG PAPERS $1.25.

The Iowa Homestead, Twice-a-Week Republic of St. Louis, the biggest and best semi-weekly in the Southwest, and Farm Progress, a big semi-monthly farm paper, sent a full year for $1.25. Send orders to St. Louis Republic, St. Louis.—Adv.

CURRENT EVENTS

THE MEXICAN election proved a miserable fiasco, no choice resulting. Out of 3,000,000 eligible electors, less than 100,000 availed themselves of the opportunity to vote. The Mexican constitution requires a vote of at least 1,000,000, so the election was declared invalid. The trouble undoubtedly was that the rank and file of the people were either afraid to vote (fearing that the lack of secrecy in the ballot would lay them open to the attacks of General Huerta, the provisional president, if he were not re-elected) or believed that their vote would not be counted if the result were not pleasing to him. Only a few days before the election, Huerta imprisoned the entire congress and as it is this body which has general supervision over the presidential election, and the right to canvass the vote and declare the result, it was a foregone conclusion that he would dictatorially make the election come out as he chose, regardless of how the people might express themselves at the polls. The result of the whole fiasco is that Huerta remains in office, because no choice was made at the election. He will continue to rule until a new election can be held and the required number of people vote. It is almost a foregone conclusion that unless forced to terms by the United States or the rebels he will not order this election very soon, inasmuch as he remains in power in the meantime. Great Britain has simplified the international situation by declaring that it will consult the United States hereafter before taking any steps in the Mexican affair. Unless the United States recognizes Huerta he will be unable to borrow money with which to carry on his government. This lack of funds may bring him to terms, rather than any conviction that the people should have a vote and right and honor should prevail.

A CONTROLLING interest in the Rock Island railroad, one of the principal lines traversing the grain belt, was sold last week to the New York banking house of Phelps, Dodge & Co. It is announced that the transfer means a change in the head management, but that the men who are actually operating the railroad will be retained. The Rock Island is a great system, traversing one of the richest sections of the country. Its service has been allowed to lapse, however, in recent years, and there have been repeated rumors of financial difficulties. The public, which is dependent upon the Rock Island and which remembers the splendid service rendered a few years ago, is hopeful that the sale will mean a turn for the better. There is no reason why this railroad property, being of immense value and of even greater need, should not be made to yield profitable returns when conducted in a strictly businesslike manner. There has been a general shaking up of dry bones in numerous railroad organizations within the last year or so, almost invariably with good results. The grain belt is hopeful that the Rock Island transfer means big things both for the system and for the public as well.

CONGRESS hall, in Philadelphia, in which the senate and the house of representatives sat from 1790 to 1800, has been restored to its original appearance and has been re-dedicated by President Wilson. The president took advantage of the occasion to argue that it will not do to live in the past alone, nor to be content with the manner in which life was lived and the country governed in the days which were far simpler than they are today. He argued that there are greater problems being presented in Washington, and throughout the country generally, today, than ever before and conditions call for strength of purpose and courage of conviction more than ever before. He summed up his plea in these sentences: "My theme here today, my only thought, is a very simple one. Do not let us go back to the annals of those sessions of congress to find out what to do, because we live in another age and circumstances are wholly different. Let us be men of that time, let us feel at every turn the compulsions of honor and principle which they felt." President Wilson has a very happy knack of public speech and a Rooseveltian enthusiasm for simple words and plain morals. He followed his Philadelphia visit with a trip throughout the South, being everywhere enthusiastically greeted, due, in part, to the fact that he is a southerner himself, the first to occupy the presidential chair since the civil war.

CLOSER trade relations between the United States and the various countries of South America, to the profit of all concerned, are predicted by Theodore Roosevelt, who is making a six months' tour of the South. In the course of his first speech, delivered in Brazil, he declared that the development of South America will be the most striking growth feature of the twentieth century. He pledged the friendly and moral support of the United States, which, he declared, is sincerely interested in the upward efforts of every country and people, particularly those of the new world. There is a growing conviction that tomorrow belongs to the countries of the South, both of Central and South America. Capital from the United States is being poured into these countries in a steady stream and much of the development is being forwarded by American brains and brawn. When Philander C. Knox was secretary of state, in President Taft's cabinet, he made a trip throughout South America, somewhat similar to the one now being taken by Colonel Roosevelt. He further cemented the friendly relations of the two countries and promised co-operation in bringing tropical conditions up to a still higher plane. It is undoubtedly true that greater opportunities for American capital are to be found throughout South America than anywhere else on the globe, while American labor is going there in larger quantity than ever before. The financial value of friendly relations with such countries as Venezuela, Brazil, Chile and Colombia can hardly be overestimated, as they will mean an increased market for American products and a constantly widening sphere of mutual profit. Colonel Roosevelt's visit should do much to augment the friendly relations upon which future commercial profit depends.

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THE American Steel & Wire Company is the first to develop a THOROUGHLY GALVANIZED WIRE. It has a thicker coat, a quality more refined, and a deeply adhesive contact of the zinc and the steel that solidly unites the two metals, highly flexible without injury, and having a finish and weather resistance unequalled—a *thoroughly galvanized wire.*

There are wonderful records of super-extraordinary efficiency, such an an auto tire lasting 30,000 miles; a pair of shoes, suit of clothes or a wagon showing astonishing durability; two ships built exactly alike, one being vastly better; or a certain piece of woven wire fencing apparently indestructible under long years of severe trial.

Years ago, in making and galvanizing steel wire, we searched out the reason for this spasmodic super-excellence, and found it to be the *chance combination of a high state of perfection*, in the finest detail, of *man, methods, machinery* and *materials.* We then mastered these fickle elements of chance by the employment of a tremendous manufacturing organization and brought them under control for steady and continuous production.

We now announce the final completion of our facilities for the extensive and permanent production of this thoroughly galvanized wire. We shall use it in the manufacture of our celebrated woven wire fences—the AMERICAN FENCE, the ELLWOOD FENCE, the ROYAL FENCE, the ANTHONY FENCE, and all our other fences.

These fences are adapted for all field, farm and poultry uses, and possess superior structural advantages in quality of steel and fabric. Dealers everywhere throughout the country display these fences and will quote lowest prices.

They cost no more than other fences, and considering the *extra large and heavy wires* used, and the exclusive use of new *thorough galvanizing*, makes them especially attractive as the best and cheapest fences.

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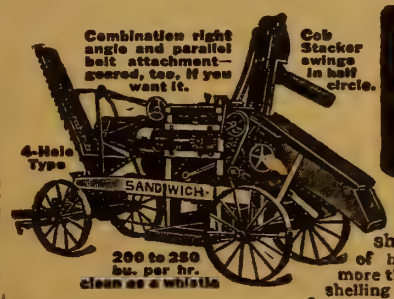

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SANDWICH Iron sides CORN SHELLERS

They do not rub, scrub nor mash the corn or cob. You could not do a neater, cleaner job by hand. For Sandwich Shellers are built on the hand-shell principle. And though widely copied, they are yet to be equaled after *57 years of leadership!*

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Made in 2, 4, 6 and 8-hole sizes, easy adjustable spout front, tilting steel plate elevator never needs to come off, patent force feed, strongest feeder chains in use on any shellers, biggest capacity with least power and lightest draft.

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With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also make Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P. D. R. Sperry & Co., Batavia, Ill.

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Electric Wheel Co., 58 Elm Street, Quincy, Ill.

The Eighth National Dairy Show

A Continent-Wide Movement Designed to Improve the Dairy Cow and Aid Every Collateral Industry—Harmony in Dairy Interests at Last Achieved

WHAT the great International Live Stock Exposition has accomplished in fostering the interests of beef cattle and the utility horse, the National Dairy Show is endeavoring to work out in behalf of the dairy industry and all its collateral branches. With the passing into history of the eighth national show which was held last week in Chicago, it must be set down that a very marked degree of success has crowned the efforts of those who have been championing this cause at a time when it amounted almost to an offense to men who are now its stanch friends. Its history in the past has been too often written in words of woe because of an enormous deficit that annually faced the management. Under the general management of W. E. Skinner, the same Skinner who for many years so successfully handled the International Live Stock Exposition, this dairy show has been headed in the right direction and such conflict of dairy interests as may have existed, in the past, have, through Mr. Skinner's diplomacy, been entirely wiped out.

The program as carried out last week was almost educational in character. There were something like twenty-eight associations assembled in annual meetings and in concerted action the officers of these associations placed themselves on record to work in harmony in forwarding the best interests of this great show. In matters of this kind the public must first be shown before it will give its support and if there was a striking lack of attendance this year it may be counted on, now that it is an established national institution, that support will be given in this regard in the future just as has been the case in the affairs of the International Live Stock Exposition.

The National Dairy Show has many purposes, but its chief one is to eliminate the unprofitable cows from the feed yards of the United States. It is estimated at the present time there are fourteen million cows that are not paying their way. The introduction of sensible feeding methods might cut this number in two, but at the very least calculation there are seven million cows that should be eliminated from the herds of this country. In the educational program carried out last week some impressive lessons designed to this end were given. There were cows on exhibition, and some of them were fair looking cows, that, under the very best conditions, produced as low as 62 cents revenue for every dollar's worth of food consumed. In adjoining stalls were cows under exactly the same conditions that were bringing a revenue between $3 and $4 for each dollar's worth of food consumed. To the hearts and minds of thousands of dairymen this lesson was forced home last week by the exhibition made by the National Department of Agriculture.

This institution is rightly fulfilling its mission when it emphasizes the importance of correct methods of feeding and the experts who took part in the educational program last week accomplished much in the dissemination of knowledge relating to this important phase of the dairy industry. Of equal importance is the proper care and management of milk after it is produced. At this juncture in steps the manufacturer because there has grown up in this country enormous industries designed to satisfy the needs of the dairyman. Mechanical devices of every conceivable description used in connection with some phase of the dairy industry were on exhibition last week and these in themselves have an educational value that will be far reaching in effect. It is literally true that there were acres of dairy machinery on exhibition and the attention given to this branch of the show by those in attendance might be accepted as evidence that the dairymen of this country are progressive and that they are keen to bring into use every labor-saving device and every possible means that is available to place their dairy products on the market as free as possible from contamination. While presumably there has always been a business motive behind the interest which manufacturers have shown in this national institution, yet it should be said here and now that without the support that has come from this source the dairy show on its present basis would not be in existence. It is desirable, therefore, that there should be the greatest kind of co-operation between the man whose interest is in the cow and the manufacturer of various forms of dairy equipment.

It is most fortunate that the various dairy cattle associations have put their shoulder to the wheel to help along this cause. Educational booths were installed last week by the American Jersey Cattle Club, the American Guernsey Cattle Club, the Ayrshire Breeders' Association and the Holstein-Friesian Breeders' Association of America. Just as the various beef breeders' associations have been important factors in advancing the interests of the International Live Stock Exposition, so is it within the power of these associations to greatly aid the cause of the National Dairy Show. That they have started the work harmoniously is most commendable because only a dreamer can foresee the enormous amount of good that can be accomplished by the co-ordination of effort which was so strikingly apparent last week. A part of the financial strength of the various breed associations can be used in no better cause than to advance the interests of the dairy industry in general through the medium of the National Dairy Show.

It is not our purpose to dwell in these introductory remarks on the character of the live stock branch of the show last week because that is dealt with in detail in the report which follows. It should be said, however, that the 600 or 700 animals shown last week were made up from the best herds of the continent. The state fair circuit accomplished a most important purpose in eliminating or in sifting out those individuals and those herds that are not of the highest and best dairy type, thereby leaving for the contest of last week only the pick of the winners. In every breed and practically in every class the judges found animals of the very highest dairy type that has yet been reached and furthermore, in almost every instance, these were fitted with the very greatest degree of skill. In this was created the visitors' opportunity as presented not only in the judging ring, but in the barns where the various breeds stood side by side. As no clique or ring has ever controlled the judges who made the

THE AGED JERSEY COW CLASS AT THE NATIONAL DAIRY SHOW.

SOME GOOD TYPES OF THE AYRSHIRE COWS—A BREED RAPIDLY INCREASING IN POPULARITY.

awards at the past International Live Stock Expositions, so we believe the honors won last week were based on merit of the animal rather than on renown of the name of the owner.

No factor could be named which more fittingly emphasizes the importance of the dairy industry than the competition in dairy cattle judging which took place last week between sixteen teams from the various agricultural colleges. At the conclusion of the contest it was found that the six highest teams were representatives of the following institutions and in the order named: First, University of Missouri; second, Kentucky State University; third, Iowa State College; fourth, University of Nebraska; fifth, Maryland Agricultural College; sixth, Pennsylvania State College. This was the largest number of institutions ever entered in a national judging contest of any description, and it was said by those who were in charge of this educational phase of the show that the character of the work done by these young men was of the very highest order, equal, in many respects, it was said, to the judging of men with national fame.

Even disease as it is related to the dairy industry occupied an important place on the educational program last week. The close relationship between tuberculosis as it exists in the dairy cow and in the human was pointed out by Dr. Park and his view that the only way to guard the health of the human, and particularly babies, is to apply the tuberculin test and remove diseased animals, met with the enthusiastic endorsement of those who interested themselves in this matter last week. The disinfection of dairy stables was strongly recommended and cleanliness as applied to the handling of the dairy products was urged with much force and no doubt with good effect. Even on the dollar and cents basis it was demonstrated that cleanliness was, after all, economical, while sloth and slip-shod ethods were in the end the most extravagant.

One of the busiest departments of the National Dairy Show was presided over by Miss C. J. MacKay, of the Iowa Agricultural College, and Miss Isabelle Bevier, of the University of Illinois. These experts gave practical demonstrations to show how milk should be kept in the home, going somewhat into detail in the matter of handling it from the time the milkman leaves it until it is consumed. Instruction in home pasteurization and home sterlization was given. Attention was also given to the matter of handling sour and skim milk, including such products as sherbets, cottage cheese and lacto. Miss MacKay and Miss Bevier were able to combine inexpensive foods in such a way as to result in most palatable and nutritious dishes. For instance they gave a demonstration with twenty-five cents' worth of bread crumbs, cheese and beans and convinced their audience that with this amount of money the same food value could be obtained as in the purchase of $2 worth of beef steak. The sensible handling of dairy products alone will, according to the doctrine of the lady professors, greatly reduce the cost of living and incidentally contribute much to improve health and to increase the pleasure of living.

The creation of what is to be known in the future as the "Council of the National Dairy Show" was one of the real accomplishments of the week.

This embodies the interest of every class, including the producer, the manufacturer and the consumer, and unless the National Dairy Show can in the future, as it has endeavored to do in the past, foster the interests of these various classes, its purpose will be onesided and in the end it will be doomed to failure. Dr. H. V. Faville was elected president of the council, F. J. McNigh, vice-president, and Mr. W. E. Skinner secretary and general manager. There now follows a detailed report of the live-stock department, in which the reader will find a complete list of all prizes won in every breed and in all classes.

JERSEYS.

No greater surprise has been sprung in the judging ring of the show circuit this fall than when George W. Sisson, noted Jersey breeder, of New York, selected Noble's Eminent Lad, a two-year-old bull owned by Ed C. Lasater, of Texas, as grand champion of the breed. Yet his judgment was decidedly sound, and the young bull came very near to being the ideal type so much sought for by the many ardent admirers of this popular channel island breed. A still greater surprise of the day was occasioned by the selection of Ma of Fair Cows, a senior yearling, the property of J. B. Stump, Monmouth, Ore., as grand champion female. These honors were not easily earned, however, and it was a hard fought victory against worthy competitors. This year 135 Jerseys were shown, and besides being the greatest number exhibited at any similar show in some years, the breed was represented by the choicest animals on this continent, every section of the country being represented. The island type predominated, and seemed to be the popular choice of both judge and spectators. Competition in the cow classes was particularly keen, and it was only by a process of careful elimination in the several classes that finally one of the young animals was selected to carry off the royal purple. Elmendorf Farm, Lexington, Ky., and Ed C. Lasater, of Falfurrias, Texas, received the biggest shares of the money, Elmendorf being accorded the honor of being winner of most money on animals bred by exhibitor, and also of most money won by any exhibitor.

The exhibitors: John F. Boyd, Rushville, Ind.; C. H. Dewey, Morris, Ill.; W. S. Dixon, Brandon, Wis.; I. K. Dering, Lake Villa, Ill.; Elmendorf Farms, Lexington, Ky.; Nelle Fabyan, Geneva, Ill.; Jersey Isle Stock Farm, L. G. Vannia, Rushville, Ind.; Kingston Bros.; Avon, Ill.; Ed C. Lasater, Falfurrias, Texas; G. T. Slade, White Bear Lake, Minn.; J. B. Stump, Monmouth, Ore.; W. L. Ware, Batavia, Ill.; Henry Webster & Son, Minneapolis, Minn. The awards:

Bull 3 Years or Over—1st Fabyan on Ocean Blue; 2d Elmendorf Farm on Distinction's Noble; 3d Boyd on Derry's Jolly Lad; 4th Dering on Eagle's Chief; 5th Ware on Bill Taft Tormentor.

Bull 2 Years and Under 3—1st Lasater on Noble's Eminent Lad; 2d Boyd on Togo's Lad; 3d Jersey Isle Stock Farm on Rozel Sultan; 4th Webster & Sons on Combination You'll Do; 5th Slade on Noble Ruler.

Bull 1 Year and Under 2—1st Lasater on Sensational Nobleman; 2d Elmendorf Farm on Elverian Lad; 3d Lasater on Alice's Royal Majesty; 4th Dixon on Favourette Oxford Modeller; 5th Kington Bros. on Sultan Jolly Royal.

Bull Calf 6 Months and Under 12—1st Elmendorf Farm on Algerian Nobleman; 2d Boyd on Jolly Lad's Jubilee; 3d Dixon on Ibsen's Glory Shining; 4th Elmendorf on Majesty's Noble Lad; 5th Jersey Isle Farm on Plymouth Eminent.

Bull Calf Under 6 Months—1st Lasater on Rosabel's Nobleman; 2d Boyd on Sensation's Jolly Lad; 3d Stump on Dark Lad; 4th Jersey Isle Farm on Plymouth's Ruler; 5th Elmendorf Farm on Viola's Noble Jolly.

Cow 5 Years or Over—1st Lasater on Lady Jolly; 2d Elmendorf Farm on Stockwell's Daisy; 3d Jersey Isle Farm on Cowslip's Golden Finance; 4th Elmendorf Farm on Doctor's Maid 3d; 5th Stump on Sockwell's Dahlia.

Cow 4 Years and Under 5—1st Vannia on Clair Val Wanata; 2d Boyd on Oxford Lad's Sensation; 3d Dering on Eulind Venner; 4th Dewey on Fair Florence Aweary.

Cow 3 Years and Under 4—1st Vannia on Campanile's Mentora; 2d Stump on Pauline Chrysanthemum; 3d Lasater on Noble's Carnation Maid; 4th Elmendorf Farm on Goddington Salvador 7th; 5th Webster & Sons on Merry Lad's Lulu.

Heifer 2 Years and Under 3—1st Elmendorf Farm on Noble Ida; 2d Elmendorf Farm on Noble's Obedience; 3d Jersey Isle Farm on Golden Maid's Rosette; 4th Webster & Sons on Ibsen's Glory Coulisse; 5th Dering on Violette's Rosie.

Heifer 18 Months and Under 2 Years—1st Stump on Ula of Fair Acres; 2d Webster & Sons on Golden Rochette; 3d Lasater on St. Clair's Mary of La Mota; 4th Stump on Noble Nurse of Fair Acres; 5th Dering on Rossmore's Lady; 6th Dering on Jolly's Lassie.

Heifer 1 Year and Under 18 Months—1st Stump on Ma of Fair Cows; 2d Elmendorf Farm on Noble's Cocotte; 3d Elmendorf Farm on Noble's Lady Margate; 4th Lasater on Majesty's Golden Lily; 5th Boyd on Scientific Sultana.

Heifer Calf 6 Months and Under 12—1st and 5th Elmendorf Farm on Noble's Jolly Norah and Distinction's Katharine; 2d Webster & Sons on Fern's Princess Belle; 3d Kingston Bros. on Majesty's Pride 2d; 4th Lasater on Fontaine's Windsor Princess.

Heifer Calf Under 6 Months—1st Lasater on Nobleman's Jolly Fern; 2d Stump on Noble Peer's Jewel; 3d Dixon on Oxford's Coulisse; 4th Jersey Isle Farm on Gambage's Plymouth; 5th Fabyan on Rose of Riverbank; 6th Elmendorf Farm on Noble's Lady Fox.

Cow Having Official Yearly Record Begun at 5 Years or Over—1st Elmendorf Farm on Stockwell's Daisy.

Cow Having Official Yearly Record Begun Under 5 Years—1st Elmendorf Farm on Noble's Beautiful Nelly; 2d Stump on Stockwell's Dahlia.

Exhibitors Herd—1st Lasater; 2d Elmendorf Farm; 3d Jersey Isle Stock Farm; 4th Dering; 5th Webster & Sons; 6th Boyd.

Breeders Young Herd—1st Lasater; 2d Elmendorf Farm; 3d Stump; 4th Dixon.

Breeders Calf Herd—1st Elmendorf Farm; 2d Stump; 3d Jersey Isle Stock Farm; 4th Dixon; 5th Dering.

Get of Sire—1st Elmendorf Farm on get of Noble of Oaklands; 2d Lasater on get of Imp. Stockwell; 3d Elmendorf on Noble of Oakland; 4th Lasater on

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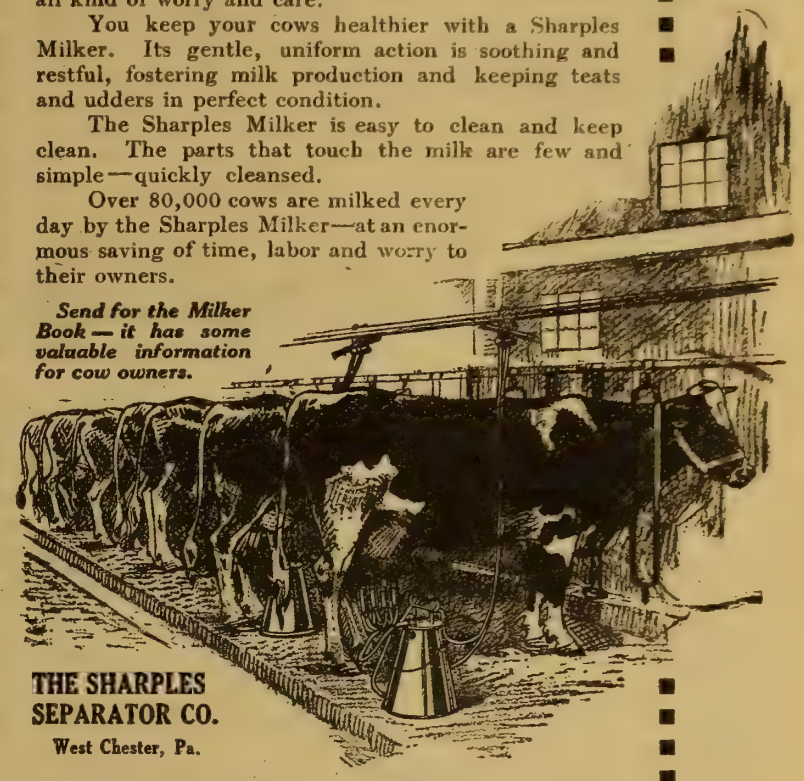

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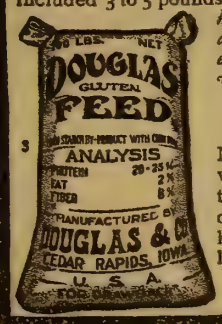

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Dairy Herd—1st Elmendorf Farm; 2d Jersey Isle Stock Farm; 3d Lasater.

Senior Champion Bull—Lasater on Noble's Eminent Lad.

Junior Champion Bull—Elmendorf Farm on Algerian Noble.

Senior Champion Cow—Lasater on Lady Jolly.

Junior Champion Female—Stump on Ula of Fair Acres.

Grand Champion Bull—Lasater on Noble's Eminent Lad.

Grand Champion Female—Stump on Ula of Fair Acres.

GUERNSEYS.

Eighteen herds containing an aggregate of 183 animals, and representing eight of the leading dairy states of the Union, supplied the "classy" showing of the breed, which frequently induced the most favorable comment by men accustomed to seeing high-class exhibits of this great Channel Island breed. A noteworthy feature about the Guernsey showing was its general uniformity. That at least a large number of the breeders are attempting to breed animals which will conform to the most approved standard of type was plainly to be seen in the classes shown last week. The best judges are today looking for capacity, constitution and productive power, and a close correlation of the parts which they believe indicate these excellencies. The ideal of a great majority of Guernsy breeders is for business herds, and show ring qualifications are but incidental—at least secondary—to the ability to profitably produce a large quantity of milk and butter fat. Excellent as the advance register is, the promoters of the breed—and their number is rapidly increasing in the corn and grain-belt states—realize that if much effort is expended to develop star performers, this feature too may be overdone. "It is more important," said one well-known breeder, "that we have herds which average from 350 to 400 pounds per year, than that a few cows of phenomenal records be produced." No trouble was experienced by Geo. C. Humphrey, professor of animal husbandry at the Wisconsin College of Agriculture, in picking the grand champion bull, for no entry showed such a high standard of individual excellence as did Imp. Hayes Cherub 2d, owned by W. W. Marsh, Waterloo, Iowa. This young animal, imported last spring, has never been defeated in a show ring, and has just completed the circuit of our state fairs.

The exhibitors: E. H. Baker, Gates Mills, Ohio; Dr. T. W. Brophy, Edison Park, Ill.; Consumers Co., Chicago, Ill.; Nelle Fabyan, Geneva, Ill.; A. W. & F. E. Fox, Waukesha, Wis.; Iowa State College, Ames, Iowa; Maple Farm of Midlothian, Tinley Park, Ill.; W. W. Marsh, Waterloo, Iowa; W. F. Merkle, Chicago, Ill.; F. S. Peer, Ithaca, N. Y.; F. G. Thompson, Devon, Pa.; T. W. & I. W. Roberts, Bala, Pa.; Upland Farms, Ipswich, Mass.; E. A. Walters, Walworth, Wis.; Wiscinda Stock and Dairy Farm, Acton, Ind.; Westmoreland Farms, Oconomowoc, Wis.; J. H. Williams, Waukesha, Wis.; Wilcox & Stubbs, Des Moines, Iowa. The awards:

Bull 3 Years or Over—1st Marsh on Imp. Hayes Cherub; 2d Westmoreland Farm on Glenwood's Combination 5th; 3d Fox on Topsy's Count Yeska; 4th Maple Farms of Midlothian on George Washington of Fairfield Farm; 5th Thompson on Gascon de Rouvets; 6th Fox on King Talladeen of Chestnut Hill.

Bull 2 Years and Under 3—1st Fox on Tricksey's George of Sunnyside; 2d Wilcox & Stubbs on Gay's May King; 3d Walter on Galloway's Raymond of Ellendale; 4th Baker on Governor of Keewaydin; 5th Upland Farms on Florham Monarch; 6th Williams on Trislette's King of the May.

Bull 1 Year and Under 2—1st Brophy on Lady Chesterbrook's May King; 2d Fox on Raymond's Billy of the Hague; 3d Marsh on Violet 3d's Son of Iowa; 4th Wiscinda Stock Farm on Dora's Donald; 5th Brophy on Pretorie's King of Midlothian; 6th Marsh on Bopeep's Mar of Iowa.

Bull Calf 6 Months and Under 12—1st Walter on May King of Grenwode; 2d Fox on Quida's Sequel; 3d Westmoreland Farm on Roxie's Glenwood of Brodhead; 4th Marsh on Victor Van of the Maples; 5th Fox on Glenwood's Volunteer; 6th Consumers Co. on Farmer's Boy of Lakeland.

Bull Calf Under 6 Months—1st Williams on Park's Isabella's King; 2d Fox on Gratify's Standard; 3d Walter on Jewel's Glenwood of Walter Maple; 4th Upland Farms on Godolphin Count; 5th Wilcox and Stubbs on Holden's Monogram; 6th Westmoreland Farm on Westmoreland Village Boy.

Cow 5 Years or Over—1st Fox on Essie Jeweler; 2d Marsh on Jedetta of Pinehurst; 3d Marsh on Glenwood's Hazel; 4th Maple Farm of Midlothian on Thelma Glenwood; 5th Walter on Imp. Lily De Bas 3d; 6th Fox on Selma of Pinehurst 2d.

Cow 4 Years and Under 5—1st Marsh on Imp. Jessy Rose 10th; 2d Upland Farms on Imp. Snowdrop of Bickleigh; 3d Williams on Park's Golden Spot; 4th Baker on Imp. Beatrice des Belles; 5th Fox on Imp. Maid of Richmond; 6th Wilcox & Stubbs on Village Lassie.

Cow 3 Years and Under 4—1st Westmoreland Farm on Imp. Blanch 2d of Quartiers; 2d Wiscinda Stock Farm on Glenwood's Fantine; 3d Marsh on Imp. Itchen Pine Blossom; 4th Fox on Pleasure of Waukesha; 5th Consumers Co. on Imp. Elfordleigh Baroness 2d.

Heifer 2 Years and Under 3—1st Fox on School Girl of Waukesha; 2d Marsh on Imp. Hayes Golden Cherry 9th; 3d Upland Farm on Imp. Clara 13th of le Tertie; 4th Baker on Imp. Golden Wish; 5th Upland Farm on Florham Minuet; 6th Williams on Park's Princess Rhea.

Heifer 18 Months and Under 2 Years—1st Fox on Dairy Maid of Waukesha; 2d Williams on Park's Isabella 2d; 3d Walter on Nobel's Belle of Ellendale; 4th Upland Farm; 5th Brophy on May King's Jessie of Ingleside; 6th Wilcox & Stubbs on Frances Rilma of Iowa.

Heifer 1 Year and Under 18 Months—1st Fox on Glenwood Sundari; 2d Marsh on Grace of Iowa; 3d Marsh on Fleurie Mar; 4th Thompson on Aurora Prince Rose of Brookmead; 5th Consumers Co. on Floe of Lakeland; 6th Brophy on May King's Princess of Ingleside.

Heifer Calf 6 Months and Under 12—1st Marsh on Lily Lapine; 2d Marsh on Glencoe's Bopeep 2d; 3d Fox on Pleasure Promise; 4th Marsh on Imp. Hayes Express 8th; 5th Fox on Bridget's Loretta; 6th Walter on Eva of Bon Ayre.

Heifer Calf Under 6 Months—1st Wilcox and Stubbs on Village Lassie 3d; 2d Fox on Sundare's Dairy Maid; 3d and 5th Marsh on Imp. Sans Souci of Iowa and Imp. Dairy Maid's Flora of Iowa; 6th Westmoreland Farm on Village Highland Girl.

Exhibitor's Herd—1st Marsh; 2d Fox; 3d Westmoreland Farm; 4th Maple Farm of Midlothian; 5th Walter; 6th Upland Farms.

Breeder's Young Herd—1st Fox; 2d Marsh; 3d Brophy; 4th Williams; 5th Thomson.

Breeder's Calf Herd—1st Marsh; 2d Fox.

Get of Sire—1st Marsh on get of Lord Mar; 2d Fox on get of Stanford's of Pinehurst 3d; 3d Fox on get of King Talledeen of Chestnut Hill; 4th Williams on get of Rhea's King of the May; 5th Brophy; 6th Thomson on get of Archie of Brookmead.

Produce of Cow—1st Williams on produce of Park's Isabella; 2d Fox on produce of Imp. Fillpail's Fairing; 3d Marsh; 4th Wilcox & Stubbs on produce of Imp. Patritea of Sarnia; 5th Fox on produce of Imp. Island Sundari; 6th Walter on produce of Belle of Galloway.

Dairy Herd—1st Marsh; 2d Fox; 3d Williams; 4th Baker.

Senior Champion Bull—Marsh on Imp. Hayes Cherub 2d.

Junior Champion Bull—Brophy on Lady Chesterbrook's May King.

Senior Champion Cow—Marsh on Imp. Jessie Rose 10th.

Junior Champion Cow—Fox on Glenwood Sundari.

Grand Champion Bull—Marsh on Imp. Hayes Cherub 2d.

Grand Champion Cow—Marsh on Imp. Jessie Rose 10th.

HOLSTEIN-FREISIANS.

W. W. Stevens, noted Holstein breeder, admirer of large type, symmetrical animals and owner of some of the greatest individuals of the breed, judged the exhibit of "black and white" cattle shown at the eighth National Dairy Show. In search of animals which combined size, ruggedness and which at the same time gave other promise of developing into efficient dairy machines, he was forced to retire some animals which had been consistent winners on the various state fair circuits, and to promote others which more nearly conformed to his ideal. Yet his sound judgment found favor with attentive and experienced Holstein breeders at the ringside. This year not as many animals were shown as have been on several previous occasions, yet eleven herds represented by 176 individuals made a showing which was a credit to the breed. Although several eastern exhibitors who in previous years have been strong contenders for championship honors did not show this year, the quality of the exhibit could not be said to have in any way depreciated. One breeder expressed the view that as time goes on the breed is improving in quality and many of the undesirable features are disappearing. The cattle shown were remarkably smooth, with good straight rumps, large, well-placed udders and a general symmetry of body. While those who are in a position to know, say that the refined dairy types are splendid for good dairymen and cattle fanciers, the Holstein is rapidly gaining in popularity among that class of farmers who aim only to grade up their herds in order to more completely supply the wholesale milk market, and increase the profits and production from an ordinary "scrub" herd. Perhaps no one breed on this continent is better suited to that purpose than the Holstein.

The exhibitors: G. M. Carpenter, Wilkes-Barre, Pa.; Geo. J. C. Copestake, Ames, Iowa; Dr. W. M. Downing & Bro., Waukesha, Wis.; M. R. Evans, Hinckley, Ill.; Wm. Everson & Sons, Lake Mills, Wis.; R. E. Haeger, Algonquin, Ill.; Iowana Farms, Davenport, Iowa; E. C. Schroeder, Moorehead, Minn.; Traverse City State Hospital, Traverse City, Mich.; Frank White & Son, Woodstock, Ill.; R. B. Young, Buffalo Center, Iowa. The awards:

Bull 3 Years or Over—1stHaeger on Paul Calamo Korndyke; 2d Iowana Farms on Ollie Johanna Sir Fayne; 3d White & Son on Groveland Inka Hylaard; 4th Haeger on Sir Spofford Beets; 5th Everson & Sons on Duke Johanna De Kol Mechthilde; 6th White on Cornucopia Pontiac Johanna Lad.

Bull 2 Years and Under 3—1st Schroeder on Sir Korndyke Heng. De Kol; 2d Iowana Farms on Oak De Kol Ollie Homestead; 3d Haeger on Harvest Cornucopia Beets; 4th Traverse City Hospital on Admiral Walker Colantha; 5th Downing & Bro. on Brookvale Ormsby Wartena; 6th Carpenter on Penn Pontiac Korndyke.

Bull 1 Year and Under 2—1st Carpenter on Winkje Hengerveld Boy; 2d Downing & Bro. on Downing Pontiac Butterman; 3d Haeger on Paul Pontiac Beets; 4th Carpenter on Dijkstra Am-

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leto Hengerveld; 5th Young on Buffalo Pieter Doede; 6th Everson & Sons on Lady Reka Mooie Son.

Bull Calf 6 Months and Under 12—1st Haeger on King Bessie of Rock; 2d Iowana Farms on Iowana Sir Ollie; 3d Everson & Sons on King Pontiac Witkop Geneora; 4th Schroeder on Sir Korndyke Fytje; 5th Haeger on Duke Johanna Beets; 6th Traverse City Hospital on Traverse Belle Buckeye Lad.

Bull Calf Under 6 Months—1st Carpenter on Klaasje Netherland Boy; 2d Young on Buffalo Le Roy Doede; 3d Traverse City Hospital on Traverse Pontiac Boy; 4th Iowana Farms on Iowana Oak De Kol; 5th Iowana Farms on Iowana Fobes Fayne; 6th Copestake on Count Artis Krondyke.

Cow 5 Years or Over—1st Haeger on Aconeth Lady; 2d Everson & Sons on Lady Reka Mooie; 3d White & Sons on Crown Hill Piebe; 4th Haeger on Nancy Spofford; 5th Evans on Mechthilde Daisy Longfield; 6th Traverse City Hospital on Belle of Traverse.

Cow 4 Years and Under 5—1st Haeger on Crescent Beauty Butter Maid; 2d Carpenter on Tromp Hengerveld; 3d Traverse City Hospital on Traverse Laundry Lass; 4th Haeger; 5th Iowana Farms on Aderondac Ola Korndyke; 6th Downing & Bro. on Vashti Korndyke.

Cow 3 Years and Under 4—1st White & Son on Groveland Korndyke Cornucopia; 2d Haeger on Evelina Calamo Korndyke; 3d Carpenter on Klaasje Hengerveld De Kol; 4th Schroeder on Spring Brook Bess Burke 2d; 5th Haeger on Daisy Korndyke Clothilde; 6th White & Son on Polk Verbena Netherland.

Heifer 2 Years and Under 3—1st Iowana Farms on Fryslan Waldorf; 2d White & Son on Beauty De Kol De Vries 2d; 3d Traverse City Hospital on Traverse Zwelle Pontiac; 4th Carpenter on Johanna Hengerveld Mechthilde; 5th Schroeder on Queen Piebe Mercedes; 6th Haeger on Segis Beets Burk.

Heifer 18 Months and Under 2 Years—1st Schroeder on Buffalo Maid 2d; 2d White & Son on Groveland Inka Netherland; 3d Haeger on Kekke Woodcrest Cornucopia; 4th Schroeder on Burke Spring Brook Ormsby; 5th Schroeder on Bess Mercedes Ormsby; 6th Traverse City Hospital on Traverse Mercena Rag Apple.

Heifer 1 Year and Under 18 Months—1st Haeger on Lily Netherland Hengerveld; 2d Schroeder on Burke Mercedes Ormsby; 3d Iowana Farms on Iowana Colantha Lady; 4th Schroeder on Lulu Piet Ormsby; 5th White & Son on Groveland Spofford Hylaard; 6th Iowana Farms on Iowana Colantha Lacky.

Heifer 6 Months and Under 12—1st Haeger on Snowflake Pontiac Beets; 2d Carpenter on Arlep Clothilde 6th; 3d Iowana Farms on Iowana Jewel Lady Wayne; 4th Schroeder on Elgin Belle Pietertje; 5th Downing and Bro. on Downing Pontiac Dairy Maid; 6th Schroeder on Queen Mercedes Ormsby.

Heifer Calf Under 6 Months—1st Haeger on Helen Pontiac Beets; 2d Carpenter on Klaasje De Kol Hengerveld; 3d Traverse City Hospital on Traverse Little Bess Lyons; 4th Haeger on Joy Burke Hengerveld; 5th Copestake on Miss Pontiac Korndyke; 6th Iowana Farms on Iowana Countess Jessie.

Exhibitor's Herd—1st and 6th Haeger; 2d Schroeder; 3d White & Son; 4th Iowana Farms; 5th Carpenter.

Breeder's Young Herd—1st Haeger; 2d Schroeder; 3d Carpenter; 4th White & Son; 5th Downing & Bro.; 6th Traverse City Hospital.

Breeder's Calf Herd—1st Haeger; 2d Carpenter; 3d Downing & Bro.; 4th Schroeder; 5th Traverse City Hospital; 6th Copestake.

Get of Sire—1st Schroeder on get of Sir Pietertje Ormsby Mercedes; 2d Haeger on get of Oakland Paul Beets Burke; 3d Carpenter on get of Hengerveld De Kol 3d; 4th White & Son on get of Groveland Inka Hylaard; 5th Copestake on get of Sir Pontiac Artis Korndyke.

Produce of Cow—1st Haeger on produce of Pontiac Helen; 2d Iowana Farms on produce of Ollie Watson Prima Donna; 3d Schroeder on produce of Spring Brook Burke; 4th White & Son on produce of Lady Ona Hylaard; 5th Carpenter on produce of Klaasje Clothilde 6th; 6th Evans on Mechthilde Daisy Checker.

Advance Registry Cow and Two of Her Progeny—1st White & Son; 2d Schroeder; 3d Everson & Sons; 4th Carpenter; 5th Evans; 6th Traverse City Hospital.

Dairy Herd—1st Haeger; 2d White & Son; 3d Schroeder; 4th Iowana Farms; 5th Carpenter; 6th Traverse City.

Senior Champion Bull—Haeger on Paul Calamo Korndyke.

Junior Champion Bull—Carpenter on Klaasje Netherland Boy.

Senior Champion Cow—Haeger on Crescent Beauty Butter Maid.

Junior Champion Cow—Schroeder on Buffalo Maid 2d.

Grand Champion Bull—Haeger on Paul Calamo Korndyke.

Grand Champion Cow—Haeger on Crescent Beauty Butter Maid.

AYRSHIRES.

Three herds of International fame and represented by sixty-five head of handsome individuals competed for the honors and awards in this breed. Competition was keen despite the scarcity of exhibitors, and the breed received a greater share of enthusiasm and recognition than at any similar exhibition in the past. Heretofore corn-belt farmers have been of the opinion that the Ayrshire was a good cow where fodder was scarce, and the climate somewhat rigid. Of late, however, she has proven her adaptability to corn-belt conditions and has taken her place as one of our most economical and hardy milk producers. The Ayrshire will respond to care and feeding as rapidly and completely as any of our breeds, and will always hold the esteem of those stockmen who admire beauty, and tidy conformation in a dairy cow.

Mr. Hugh G. Van Pelt made the awards in this breed, and while his decisions were in many cases contrary to those rendered by other judges on the show circuit, they found popular favor with experienced stockmen and good judges at the ringside.

The aged bull, Bargenoch Gay Cavalier, was once more accorded the grand championship and was clearly entitled to this recognition. Mr. Seitz also secured the grand championship with his cow, Kilnford Belle 3d. The Wisconsin herd easily outclassed the other, and carried off the lion's share of the money. The special silver cup offered by the Ayrshire Breeders' Association was also won by four animals of Seitz herd.

The exhibitors: R. B. Ness, Howick, Ind.; W. P. Schanck, Avon, N. Y.; Adam Seitz, Waukesha, Wis. The awards:

Bull 3 Years or Over—1st Seitz on Imp. Bargenoch Gay Cavalier; 2d Ness on Hosland Masterpiece; 3d Schanck on Likly King of Avon.

Bull 2 Years and under 3—1st Ness on Burnside Lucky Cavalier; 2d Schanck on Victor Hugo of Avon.

Bull 1 Year and Under 2—1st Ness on Holehouse Wanderer; 2d Seitz on Bargenoch Rising Star; 3d Schanck on King of Avon.

Bull Calf 6 Months and Under 12—1st Seitz on Cavalier's Fond Memory; 2d Seitz on Cavalier's Leader of Fashion; 3d Schanck on King Columbus of Avon; 4th Ness on Prince Arthur of Humesbaugh.

Bull Calf Under 6 Months—1st Seitz on Cavalier's Fashion Plate; 2d Ness on Burnside Ben.

Cow 5 Years or Over—1st Seitz on Kilnford Bell 3d; 2d Ness on Auchenbrain Fanny 9th; 3d Seitz on Melrose Pender; 4th Seitz on Vilo Pender of S. C.; 5th Ness on Barcheskie White Beauty.

Cow 4 Years and Under 5—1st Ness on Benchan Spottie; 2d Ness on Hobsland Pansy; 3d Seitz on Imp. Hillhouse Maud; 4th Schanck on Lady Likly of Avon; 5th Seitz on Imp. Lady Mary Stewart.

Cow 3 Years and Under 4—1st Seitz on Imp. Beaucham Dorothy; 2d Schanck on Sibbie of Avon; 3d Seitz on Imp. Tower Tulip 2d; 4th Ness on Burnside Denty; 5th Seitz on Imp. Barleith Lily White.

Heifer 2 Years and Under 3—1st Ness on Burnside Maggie Finlayston 3d; 2d Seitz on Imp. Harperland Pansy; 3d Schanck on Nona's Lady of Avon; 4th Schanck on Voca 4th of Avon; 5th Ness on Burnside Dorothy.

Heifer Not in Milk 18 Months and Under 2 Years—1st Ness on Burnside Diana; 2d Schanck on Maude Douglas 3d of Avon; 3d Seitz on Bargenoch Queen; 4th Seitz on Bargenoch Silver Pet.

Heifer Not in Milk 1 Year and Under 18 Months—1st Ness on Holehouse Randy 9th; 2d Schanck on Gladionia of Avon; 3d Seitz on Bargenoch Leesie Lindsay.

Heifer Calf 6 Months and Under 12—1st Seitz on Cavalier's Violet; 2d Schanck on Dott 4th of Avon; 3d Ness on Burnside Miss Muir; 4th Ness on Burnside Ina; 5th Schanck on Edna May 2d of Avon.

Heifer Calf Under 6 Months—1st Seitz on Carston Miss Maud; 2d Ness on Silver Bloomer; 3d Schanck on Little Nell 3d of Avon; 4th Seitz on Cavalier's Daisy; 5th Schanck on Voca 5th of Avon.

Cow Having Official Yearly Record Begun Under 5 Years—1st Seitz on Imp. Beaucham Dorothy; 2d Seitz on Imp. Hillhouse Maud; 3d Ness on Finlayston Maggie 3d; 4th Ness on Burnside Maggie Finlayston 2d.

Exhibitor's Herd—1st Seitz; 2d Ness; 3d Schanck.

Breeder's Young Herd—1st Ness; 2d Seitz; 3d Schanck.

Breeder's Calf Herd—1st Seitz; 2d Schanck; 3d Ness.

Get of Sire—1st Schanck; 2d Seitz; 3d Ness; 4th Schanck; 5th Ness.

Produce of Cow—1st and 3d Schanck; 2d and 5th Seitz; 4th Ness.

Advanced Registry Cow and Two of Her Progeny—1st Seitz; 2d Ness.

Dairy Herd 5 Cows in Milk—1st Ness; 2d and 4th Seitz; 3d Schanck.

Senior Champion Bull—Seitz on Bargenoch Gay Cavalier.

Junior Champion Bull—Ness on Holehouse Wanderer.

Senior Champion Cow—Seitz on Kilnford Belle 3d.

Junior Champion Cow—Ness on Burnside Diana.

BROWN SWISS.

Sixty-seven head of Brown Swiss cattle were brought before H. G. Van Pelt by four different breeders. The breed was represented by several well-fitted herds of splendid individuals showing more refinement and dairy type than has heretofore been customary with this breed. The Brown Swiss are peculiarly adapted by their rugged constitutions to the rough, rolling land occasionally found in some of our middle western states. As their quality and type improve by careful breeding their adaptability and desirability in the dairy region of our country will directly increase, and already breeders are expressing optimistic views regarding the future rapid expansion of the breed.

The exhibitors J. P. Allyn, Delavan, Wis.; H. W. Ayres, Honey Creek, Wis.; E. M. Barton, Hinsdale, Ill.; Hull Bros., Painesville, Ohio. The awards:

Bull 3 Years or Over—1st Allyn on Myone Boy; 2d Ayres on Zell; 3d Barton on Faust.

Bull 2 Years and Under 3—1st Ayres on Zell A.; 2d Hull Bros. on McAvoy of Lake View.

Bull 1 Year and Under 2—1st Barton on Cleone's Junker; 2d Allyn on Ione Laddie; 3d Ayres on Ayres' Traveler.

Bull Calf 6 Months and Under 12—1st Allyn on Casper Brown of A.; 2d Barton on Goldwin; 3d Ayers on Zell I.

Bull Calf Under 6 Months—1st Barton on Vogistus; 2d Hull Bros. on Ben of Lake View; 3d Barton on Nichols.

Cow 5 Years or Over—1st Allyn on Arlene; 2d Allyn on Iown of Allynhurst; 3d Ayres on Merney.

Cow 3 Years and Under 5—1st Allyn on Belle of Grattan; 2d Barton on Vogera; 3d Barton on Leona's Girl.

Heifer 2 Years and Under 3—1st Ayers on Alice Hanson; 2d Barton on Florina B.; 3d Barton on Magnolia B.

Heifer 18 Months and Under 2 Years—1st Allyn on Show Girl of Allynhurst; 2d Ayres on Zell's Crocus; 3d Ayres on Zell's Brownie.

Heifer 1 Year and Under 18 Months—1st Barton on Magdalena L.'s Heifer of Sedgley; 2d Ayres on Miss Cincey; 3d Ayres on Miss Collier.

Heifer 6 Months and Under 12—1st Ayres on Zelia; 2d Barton on La Mack; 3d Allyn on Merry Maid of A.

Heifer Calf Under 6 Months—1st Ayres on Ermetta G.; 2d Ayres on Lady Jane A.; 3d Barton on Benedicta.

Exhibitor's Herd—1st Allyn; 2d Ayres; 3d Barton.

Breeder's Young Herd—1st Barton; 2d Allyn; 3d Ayres.

Breeder's Calf Herd—1st Allyn; 2d Barton; 3d Ayres.

Get of Sire—1st Allyn on get of Casper C.; 2d Ayres on get of Zell; 3d Barton on get of Junker.

Produce of Cow—1st and 3d Allyn; 2d Ayres.

Senior Champion Bull—Allyn on Myone Boy.

Junior Champion Bull—Allyn on Casper Brown of A.

Grand Champion Bull—Allyn on Myone Boy.

Senior Champion Cow—Allyn on Belle of Grattan.

Junior Champion Cow—Ayres on Zelia.

Grand Champion Female—Allyn on Belle of Grattan.

DUTCH BELTED.

In providing a display of Dutch Belted cattle, the management of any fair or exposition supplies a picturesque and novel feature. The breed has and in all probability will have but few followers in this country. One authority upon the breed has estimated that there are but a few hundred registered Dutch Belted cattle in the United States, and these he has found are widely distributed in at least twenty-six different states. There are, however, but few associations organized to promote, and if possible, popularize the breed. Two exhibitors, E. J. Kirby, of Covert, Mich., and Maplebrook Farm, Mason, Mich., furnished the display which was judged by Fred C. Minkler, animal husbandryman of the New Jersey Agricultural College. Kirby took all the first and most of the seconds in all classes having competition.

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Look for the Red Ball—if the Red Ball is not on the goods, you are not getting "Ball-Band" Quality.

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Shoots all .22 short, .22 long and .22 long-rifle cartridges; excellent for rabbits, squirrels, hawks, crows, foxes and all small game and target work up to 200 yards.

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It's a take-down, convenient to carry and clean. The tool steel working parts cannot wear out. Its Ivory Bead and Rocky Mountain sights are the best set ever furnished on any .22. Has lever action—like a big game rifle; has solid top and side ejection for safety and rapid accurate firing. Beautiful case-hardened finish and superb build and balance. Price, round barrel, $14.50; octagon, $16.00. ¶ Model 1892, similar, but not take-down, prices, $12.15 up.

Learn more about all Marlin repeaters. Send 3 stamps postage for the 128-page Marlin catalog.

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When you were a boy, how you longed for a *real* watch! How you envied and admired that watch your schoolmate proudly displayed on his birthday. And how you vowed then that *some day* you would have one that would far outshine his—a fine watch in a gold case, and a watch that would keep *absolutely accurate* time!

"The South Bend" Watch

Now you are in a position to realize that boyhood longing. Now you can secure *the watch you've promised yourself!*

And what watch you know will compare with the wonderful South Bend—the watch so accurately balanced, so delicately adjusted, so perfectly tempered that it will run with barely a second's variation for twenty-four long hours frozen in solid ice?

Are you going to be satisfied with any watch that *won't* stand such a test? Are you going to buy a watch that you can't *show to your friends* with the feeling that it's the best watch made?

You can see South Bend Watches at your jeweler's in town. He'll explain to you why the South Bend Watch will stand such extreme tests as being frozen in ice or baked in an oven, why it is inspected 411 times in the making. Ask him especially to show you the "double-roller" South Bend—a master-achievement in fine watch-making.

South Bend Watches sell from $15 to $100. You can get either thin or regular models, plain or engraved case. But back of every one is the supreme South Bend quality that has made the South Bend "Cake-of-Ice" trademark the best-known watch trademark in America.

Write for our booklet "How and Where to Select a Good Watch." It contains facts you ought to know. We send it FREE. (196)

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Summit Knit-Nek Vest

When you drive or work outdoors you need clothing that will keep you warm but still allow you to move around with ease and comfort.

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You'll appreciate these features, and should see them before buying your winter clothing.

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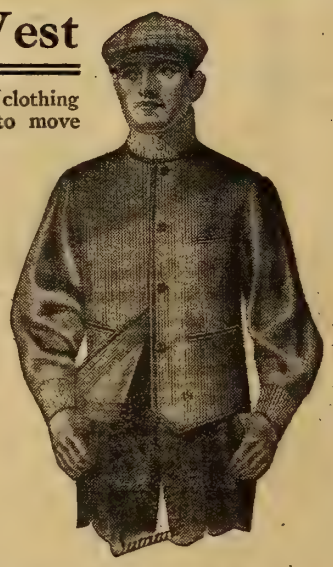

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SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

DAMAGE BY CHICKENS.

A Subscriber, Illinois.—During the last five years a neighbor who lives south of my place has killed ten of my chickens. When she killed the last two chickens my husband got a lawyer to make out a bill against her for $6 for all chickens she had killed. When she received the bill she went to another lawyer who made out a bill in her favor against me for damages done to her garden by my chickens. The woman's place is surrounded by places where chickens are kept and I have often seen other people's chickens scratching in my neighbor's garden. If the matter gets into court will not my neighbor have to prove that damages was done by my chickens before she can get damages?

Answer.—You are entitled to damages from your neighbor for the full value of all the chickens she killed, and she is entitled to damages from you for all the injury your chickens did on her premises. If the matter gets into court each party must prove the damage she claims, or she will fail to recover. Both parties are at fault and each party is entitled to damages from the other in this case.

FIRST AND SECOND MORTGAGE.

A Subscriber, Egan, S. D.—B holds A's note for about $1,500 secured by a chattel mortgage upon all A's stock, implements and growing crops raised on the place occupied by A. C also holds A's note for $90 principal and interest, secured by a second mortgage on part of said live stock and implements. B is willing to carry the loan of $1,500 on the first mortgage, but C wants to take legal steps to collect his $90 note at once. Can C bring suit so as to compel B to foreclose his first mortgage?

Answer.—C cannot bring any kind of a suit that will compel B to foreclose the first mortgage. C can foreclose his second mortgage, and leave his interest in the property sold to pay the ninety-dollar note. Upon such foreclosure the property will be sold subject to the first mortgage, and the purchaser will obtain the property encumbered by said first mortgage, and B can foreclose his first mortgage and have the property sold again, and the proceeds applied to the payment of his note, interest and costs, and if there be an excess the amount of such excess will be turned over to the purchaser under C's mortgage sale.

MARRIAGE LAW OF GERMANY.

A Subscriber, Tomahawk, Wis.—Is it lawful in Germany for a man to marry the daughter of his half sister?

Answer.—Such a marriage is lawful in Germany. The law of Germany forbids marriage between relatives by blood in the direct line. Persons of whom one is the descendant of the other are relatives by blood in the direct line. Persons who are not related by blood in the direct line, but are descended from one and the same third person, are relatives by blood in the collateral line. An uncle and niece are not relatives by blood in the direct line, but in the collateral line, and therefore a marriage between them is lawful in that country.

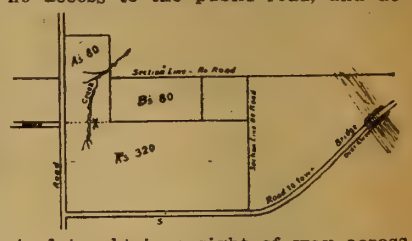
ANTE-NUPTIAL AGREEMENT—LOST MORTGAGE.

An Iowa Subscriber.—A widow living in Iowa had three children all married. She married a man in Nebraska. They agreed with each other before marriage that all property which the woman should own at her death should go to her children. (1) Would such agreement cover her share in real estate owned by her husband when they were married? (2) The woman died, and on her deathbed gave to her children all of her household goods. Can the children get possession of the goods without the consent of the husband? (3) The woman sold a farm to a son who paid no money thereon, but gave a mortgage on it for the price, and the mortgage cannot be found since her death. Can the son be compelled to divide the farm with his two sisters?

Answer.—(1) If the woman died before her husband she had no interest whatever in the real estate owned by the husband at the time of their marriage. (2) If the agreement before marriage was in writing signed and acknowledged like a deed, then her children would be entitled to all the woman's property at her death, without the husband's consent, but if said agreement was merely oral the husband would be entitled to the household goods. (3) If the woman made a deed of the land to her son he will not have to divide with his sisters, but is liable to the estate for the price he agreed to pay for the land. The lost mortgage might be proved and constitute a lien on the land.

ROUTE OF PRIVATE ROAD.

A Subscriber, Minburn, Iowa.—The accompanying diagram represents the lands of A and B, with roads, section lines, creek, river and bridge. B has no access to the public road, and desired to obtain a right of way across A's land to the public road. Can he have it located across A's 320 acres, or must it be located by the shortest line across A's eighty acres to the west road? If run by the latter route, the proposed road would have to cross a deep creek at the point marked X.



Answer.—The law of Iowa provides that such a road must not exceed forty feet in width, and must be located along the division line, or immediately adjacent thereto. We are therefore of the opinion, that in your case, the road would have to run from the southwest corner of B's land, directly west along the line between A's 80 acres and his 320 acres, to the road running north and south.

STRAIGHTENING CREEK.

A Subscriber, Waverly, Neb.—The accompanying diagram represents my land with Salt creek running through it. The stream is twenty feet wide and three feet deep, and it is ninety feet from bank to bank. (1) Would I have to obtain a permit from the state or county in order to straighten the creek by cutting a channel along the course indicated by the dotted lines? (2) Could the farmers lower down on the creek, lawfully prevent me from cutting such a channel?

Answer. (1) You have a right to straighten the channel of the creek on your own land, as indicated by the diagram, without obtaining permission therefor from either the state or county. (2) The farmers below cannot lawfully prevent you from doing so.

RIGHTS OF A TENANT.

A Subscriber, Manilla, Iowa.—rented a 120-acre farm from March 1, 1913, to March 1, 1914, and am living on it, but desire to move from it before the expiration of my lease, say about December 15th. The farm has been rented for the following year beginning March 1, 1914, to another tenant, and he has done some fall plowing on the place. Has he the right without my permission to move on the place and use the standing corn in the stalk fields?

Answer.—Having rented the farm for one year ending March 1, 1914, you have the exclusive right to have possession thereof till that time, and use the standing corn and stalks in the fields for your own benefit. The other renter whose term will begin March 1, 1914, has no right whatever on the place till that time, without your permission. The fact that you will move from the house about December 15th has nothing whatever to do with the matter. It does not give the other any rights he does not otherwise have.

FENCE CONTRACT—DAMAGE BY SHEEP.

Mr. John L. Hurliman, Coatesville, Mo.—F and B owned adjoining farms in Missouri. Five years ago, F sold his farm to H, giving good title, and also assigned to him a contract made between F and B about the line fence between said farms. Said contract provided that F and B should keep up a sheep-tight partition fence. F put in on his part a good sheep-tight fence, but B failed to make his part sheep tight. After H bought F's farm he lost the contract about the fence. B

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If You Have Furs or Hides To Sell, you should have our price list, and regular Market Quotations. Manufacturing and selling all we buy, gives us an advantage possessed by no other firm. WRITE US TODAY

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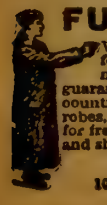

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105 S. W. 9th St., Des Moines, Iowa.

showed his copy of the contract to H, and H saw that the word "sheep" had been erased from it, and B denies the word was ever in it. H's sheep got over on B's land, and H had a sheep-tight fence built on B's part, while B was in Canada. Last spring the heavy rains washed away part of the fence on B's part, and B did not fix it. H turned his sheep in his own field and they got in B's corn and did same damage. (1) Can B recover damage from H? (2) Can H recover the cost of the fence he built on B's part of the line?

Answer.—(1) B cannot recover damages from A because the injury caused by the sheep of H was the result of B's failure to fix the part of the fence he was bound to keep in repair. (2) H can recover by law the value of the fence he built on B's part of the division line. If a suit is brought in court about the fence, B can be compelled to show in court his copy of the fence contract.

LIABILITY ON NOTES.

A Subscriber, Rockwell, Iowa.—Last July I bought a farm in Minnesota, and got a contract for a deed. I paid $500 cash, and gave my notes for the balance of the purchase price, $1,000 to be paid on February 1, 1914, and balance extending over a period of eight years, with interest after February 1, 1914. The contract provides that in case I fail to make prompt payments I am to surrender the premises and all my rights thereto. Since the purchase, things have happened that may render me unable to make the $1,000 payment. In such event would I merely forfeit the $500 paid, or would I also be liable on the notes I gave for the balance?

Answer.—It depends upon the terms of the contract of sale. If the contract provides that upon your failure to make prompt payments you are to forfeit the $500, and surrender the premises, and the contract is to be rescinded, then you will merely lose the $500 paid, but if no provision is made for rescission and forfeiture, then you will be liable on your notes for their full amount. In any case you should not surrender the premises till your notes are canceled and returned to you. Have some good local lawyer examine the contract and advise you as to what its terms require you to do.

COLT INJURED BY WIRE—DAMAGES.

A Subscriber, Center Point, Iowa.—A's colts jumped over his pasture fence and ran over to B's pasture where he has some colts. B's gates were open to his pasture. The two herds of colts fought over the fence, and loose barbed wires were hanging on B's fence, and one of B's colts got badly cut on the wires. (1) Can B recover damages from A? (2) Can B compel A to buy the colt that was cut on the wires?

Answer.—(1) B cannot recover damages from A, because the injury to B's colt was partly the result of his own carelessness and negligence—loose wires and open gates. (2) He cannot.

RELEASE OF MORTGAGE.

A Subscriber, Conway Springs, Kan.—A bought 320 acres of land, and mortgaged the whole of it for a large sum of money. Could A sell and convey eighty acres of the land to B, and pay off a certain per cent of the mortgage, and give B a good and clear title to the eighty acres, or would A have to pay off the whole mortgage?

Answer.—A could not give B good title to the eighty acres without the consent of the holder of the mortgage; he would have to get the holder of the mortgage to sign and acknowledge a release of the mortgage as to the eighty acres. If the mortgage holder would not do so, there is no way by which A could give good title to the eighty acres, until the whole mortgage is paid.

PERSONAL EARNINGS EXEMPT.

X. Y. Z. Milton, Iowa.—Mr. A who holds the position of general manager or superintendent of a manufacturing company, at a salary of more than $100 per month, gave me his two promissory notes, one payable six months after date, and the other payable twelve months after, both payable at my home bank. He has not paid either note or interest, and both are past due. He has a wife; but no other family. We reside in different counties in Iowa. How can I collect the notes?

Answer.—The only way is to employ a lawyer to bring a suit on the notes, you can recover judgment against A for the amount of them and interest, and have execution issued against A's property. If A has no property subject to execution the collection will be probably difficult, and perhaps impossible, as the law of Iowa allows a debtor who resides in the state, and is the head of a family, to claim as exempt all his earnings for personal services within ninety days from the date of levy. A, having a wife, is in law the head of a family.

A SWILL BARREL ON RUNNERS.

To the Editor of The Homestead:

I belive in a variety of food for animals as well as for the human family, believing that thrifty growth is dependent on perfect assimilation of the food, which, in turn, is dependent on good digestion, and we have Shakespeare's word for it that good digestion waits on appetite, and appetite is only excited by a variety of wholesome food. A healthy hog has a good appetite, and, though he will eat food other farm animals will refuse, he wants and does better on that which is clean and wholesome, not the ill-smelling, decayed stuff that is found in the average "slop barrel."

A swill barrel on runners is convenient for moving from place to place and if filled fresh for each feeding and washed out thoroughly when emptied, then drawn into the shade so it will not dry out and leak, is a great convenience and also an improvement over the old kind.

Two runners are sawed out roughly from scantlings and are put together so that when the barrel is laid on its side across the sled the runners will be in about four inches from the ends of the barrel. The runners should be hollowed out on the top the shape of the barrel, so that the barrel will rest more firmly on the sled. Stout straps of hoop iron should also run over the barrel and be securely fastened to the runners in order that the barrel may not move about. Place the barrel over the center, from front to back of the lower side of the runners—not over the center of the top side. If the barrel is to be moved over sloping ground, the runners should be longer than might be used on level ground.

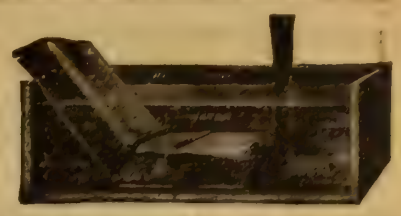
The barrel should be placed high enough on the sled so that, when pulled up to a hog trough, the end of the barrel will be higher than the trough. This makes it possible to pull out a plug and let the liquid flow by gravity from the barrel into the trough. A like result might be accomplished by having a raised place (a wood platform with an inclined approach or a ridge of earth) at the end of the trough, that would make the barrel higher than the trough when the sled was pulled up on the high part. But this last plan would make it inconvenient to move the trough frequently, which may be desired.

An opening in the top side of the barrel should be cut of a size that will permit slop or milk being poured in conveniently.

A coal-oil barrel that has been burned out or a lard barrel, if it has two good ends, is excellent for this use. It is a small matter when the harness is on a horse to hitch to this sled and get the slop or the milk to the hogs. Those who are raising a considerable number of hogs and perhaps keeping them quite a distance from the house to graze some crop that has been planted especially for them will find this sled idea a very good one.

It may be noticed that milk and slop may do worse than merely sour if kept too long before feeding; it may begin to decay without the feeder suspecting that any unfavorable change has taken place in it. Even though the animals that eat it are hogs, it is best not to supply them with decayed food. Subscriber.

Sweet clover seed weighs the same as red clover or alfalfa when it is free from hulls; that is, sixty pounds per bushel. It is a hard matter to take the hulls off in a common threshing machine, and many sow hulls and all, as it grows just as well that way. When seedsmen handle it the hulls have to be taken off.



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Note Construction. No heat going to waste, all passing under the water. Indispensable to all farmers. Pays for itself in two months with two cows. Burns straw, corn cobs, all rubbish, coal and wood. Ashes removed in a few seconds without disturbing the Heater. Heats water with one half less fuel than any other Heater. Let us send you a Heater on two weeks' free trial, just as we have to thousands of others. This heater is now in use in thirty states, and Canada. If not sold by your dealer, do not neglect sending for catalog and price, now while it is fresh in your mind. A postal will bring our catalog and testimonials free of charge.

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WE OFFER GENUINE **Martin Grinders** 3 TYPES 14 SIZES

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WRITE FOR PRICES TO THE **Lennox Machine Co.** We also manufacture Gasoline Engines in 4 types, 20 Sizes ¼ to 30 H. P. for All Fuels, Guaranteed Pitless Scales and Farm Electric Lighting Plants
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If your druggist cannot supply you, remit the price direct to us and we will send you a bottle prepaid.

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High quoted prices don't mean the biggest check, unless the grading is right. We grade honestly, pay highest MARKET PRICES and buy furs out and out, charging you no commission. If you want furs held separate and our offer is not satisfactory, we'll return the furs, paying express. Write for latest price list.

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We need large quantities of all kinds. Will pay big prices for same. We also buy Beef Hides, Horse Hides and Sheep Pelts. Write for our price lists. They are free. Correspondence invited and cheerfully answered.

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THE reason for the great warmth and delightful comfort of a *Lambsdown* union suit is its thick, downy fleece.

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Fleece-Lined Underwear

is also remarkably durable—two seasons' wear to a garment. It will cut your underwear bills in two.

Your physician will tell you that the heavy fleece-lining wards off colds and promotes good health.

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in separate as well as union garments, at 50c, 75c and up. At your dealer's.

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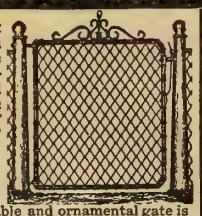
$1.90 FOR THIS DANDY GATE



These gates are not a special lot built down to a low price, but are full of the same quality, satisfaction and durability which can be obtained in any of our **triple-galvanized, high-carbon steel**

Iowa Gates

The filling of this serviceable and ornamental gate is extra close diamond mesh. Gate has strong frame, patent latch, etc. Comes in all sizes; plain and fancy tops.

Style E Farm Gate, illustrated below, is another leader sold at a much lower price than asked for other gates of its kind. Painted or galvanized. All sizes.

The best lumber dealer in your town has these gates on sale. If you don't know his name, write us for booklet, name of dealer, special prices, etc.

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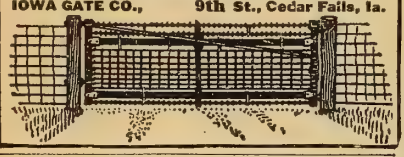

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Write Us—get our Square Deal Catalog which tells how we prepare the steel, draw it into wire and make it into fence that will last. We will also send you FREE Ropp's New Calculator which gives the answer to any farming problem that takes hours to figure out on paper. Both books FREE if you write at once.

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FARM FENCE FROM FACTORY TO FARM

26-inch Hog Fence,.....14c.
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Many styles and heights. Our large Free Catalog contains fence information you should have.

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Education For Farm Life.

THERE are many angles from which to view this subject. We may look at it from the point of view of the farm boy whose future is at stake; of the farmer grown old on the farm, who is interested in the success of the rising generation; of the city dweller, fearful of the country's food supply; of the moralist, hoping for the maintenance of wholesome social and industrial ideals. We may share the feelings which Goldsmith recorded in his "Deserted Village" when he witnessed the gradual disappearance of the farming class:

"But a bold peasantry, their country's pride,
When once destroyed, can never be supplied."

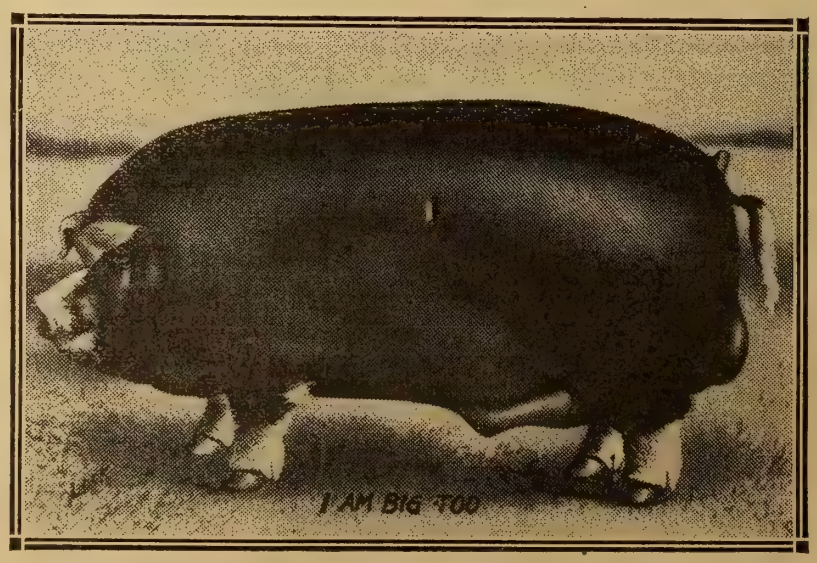
But whatever our point of view, we cannot deny that the problem is one of increasing interest and import. The great growth of modern cities presents a question to which " it is a tendency of the times" is no adequate answer; for we all know that urban life is the more artificial, country life the more natural, of the two. Hitherto, life in the country, while less thought-stimulating, has been by far more wholesome physically, and even morally, than city life. Whether or not in the future we shall be skillful enough to make our civilization distinctly urban, using the country only as a source of the city's food supply and as a dwelling place of a relatively smaller portion of our population, no one can say. In the past, at least, it has never been successfully done. Without the proper balance of city and country forces no civilization has ever become great. Brilliant city life and degraded rural life have existed together for a time, but never permanently. In view, therefore, of its relation to the nation's general economic welfare, education for farm life is a national problem.

Only within comparatively recent times has education come within the reach of any but a very few special classes. In medieval times education was for the priest and the clerk, to enable them to transact a little public business and keep the church records and other crude annals of the times. Even this, of course, had to be done in Latin, the general language of the western world, which was studied without any thought of culture.

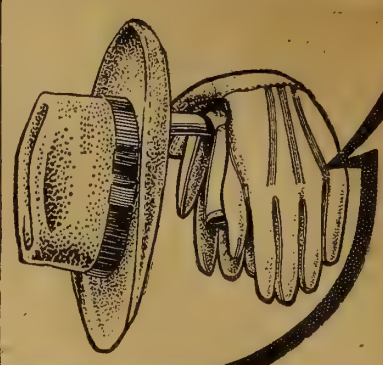
The farmer should be taught some conception of his own place in the life of the nation and of the world, and his own relation to the rest of society. His very isolation—now largely overcome by rural delivery, the telephone and the automobile—has, up to this time at least, given him a peculiar characteristic attitude toward his fellow men. Often he has been suspicious of the local physician, but a ready prey to the patent-medicine quacks. Often he feels perfectly sure that the local merchant is a robber, but is more than willing to buy sight unseen from the seductive pages of a mail-order catalog. He knows that he is likely to be the victim of selfish interests, but he does not always know that those selfish interests are, or how to identify them. Let me illustrate (the parties have now passed off the scene, so that I may speak freely): A number of years ago the principal of our school of agriculture used to meet the incoming boys and take up their trunk checks. At the end of each day he chartered a dray by the hour, loaded the trunks upon it, and distributed them at the boys' rooming houses. When he took up the checks he collected twenty-five cents from each of them and then after he had delivered the trunks at actual cost, refunded from five to seven cents. To get a heavy trunk hauled over three miles and delivered at one's house for twenty cents or less was, of course, a good business proposition. But the boys somehow came to suspect that the principal was in some way grafting from them, and their suspicion grew to such proportion that he became disgusted with the whole transaction, and told the boys that co-operation was at an end, and that in future they could get their trunks delivered any way they pleased. Since then they pay the standard drayman's price of fifty cents, and I presume are perfectly happy. I mention this merely to show how often the farmer's suspicions are misdirected and how by harboring them he defeats his own ends. I see no way to overcome these difficulties but by education of the future farmer, not only by school discipline, but also by a reasonable amount of urban life, by travel, by contact with all sorts and conditions of men, thus teaching him the difference between the real and the imitation, not only in the market, but also in human relations, in his intercourse with his fellow men, in life itself.

Another phase of the future farmer's development needs emphasis no less than its purely intellectual side. No one ever achieved great success who did not have or acquire joy in his work. Man is naturally lazy, and physically unwilling to do anything from a sense of duty or compulsion. He works because, coupled with his conviction that it is his duty to work in order to enjoy the fruits of his labor, he finds pleasure in the work itself. —[C S Avery, University of Nebraska, before Kansas State Board of Agriculture.

Plowing is said to be the hardest work known. Last year in this country there were 275,000,000 acres plowed, at a cost of $450,000,000. This means the turning of 2,000,000,000 tons of earth. Every five square miles of plowing means a distance traveled of 25,000 miles. It means a single furrow around the whole earth. Every loaf of bread requires the plowing of a furrow forty-eight feet long. To plow one acre is a whole day's work for on man and one horse, but it is only thirty minutes' work for one man and a tractor. In a test recently made at the Purdue University three modern tractors hauling fifty plows covered an acre in four and a quarter minutes.



The above is a true likeness of the noted boar, I Am Big Too, (a son of Dorr's Expansion) that heads the herd of H. F. Dodds, Florence, Neb. He is the sire of the great prize-winning boar, Futurity Jack, and he is also the sire of a great part of the sale offering of Mr. Dodds that will be sold at Florence, Neb., on November 13th. See advertisement on page 41.



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They outlast many others of the flimsy kind, and the saving in time and hand-health is *beyond price*.

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Suit every job—every man. For harvest work or lighter chores—for driving, motoring or motorcycling, Hansen's give you the grip that holds, with "give" and softness. Price $1.25 up. All sizes.

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Write us for book and information where to order and how to buy, if your dealer doesn't sell Hansen's. Address

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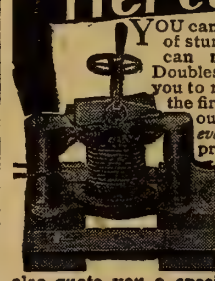
Pull 100 Stumps A Day--With The Hercules



YOU can clear an acre or more of stumps a day. No stumps can resist the Hercules. Doubles land value—enables you to make $1200.00 on 40 acres the first year after stumps are out—and $750.00 in crops *every* year after. Get the proof. Why not

Write Us Now

Book tells all the facts—shows many photos and letters from owners—tells all about the many Hercules features. We'll also quote you a special money-saving price proposition that *will interest you*. Address

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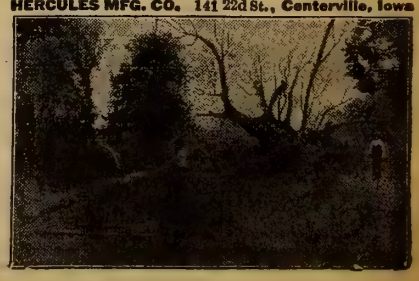

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MAKING POSTS AND POLES LAST LONGER.

(Continued from page 8.)

leum-tar creosote, coal-tar creosote and various patented products of coal tar and petroleum tar. Creosote is best applied hot. A barrel (fifty gallons) of this material should be sufficient to paint at least 300 posts with three coats for the butts and two for the tops.

In the brush treatment the preservative does not enter the cracks and checks. This defect can be overcome by dipping the posts in the preservative. This saves labor over the painting method. Yet, dipping requires a larger quantity of preservative, and, in addition, to the amount consumed, there must be enough surplus to keep the barrel or tank filled to the proper depth. This usually forbids the use of any expensive preservative for dipping. Petroleum tar, coal tar, and the creosotes may be advantageously used.

Posts have been treated by dipping the butt in cement. This is hardly satisfactory, owing to the ease with which the protective covering may be broken; moisture is absorbed after treatment and causes the wood to expand and crack the cement.

There is still another method of treating posts. It is known as penetration or impregnation. The wood is impregnated by prolonged soaking (a ten-hour bath) in the preservative at ordinary air temperature. This is a simple method, but better results are obtained by the use of a hot bath as well as a cold bath. The cheaper preservatives can be profitably used in the cold-bath treatment, for the same reason as in dipping. Creosote is usually the best preservative to use. Coal-tar creosote requires a slight heating to liquefy it. Crude petroleum lacks antiseptic qualities.

The impregnation of fence posts with creosote is best accomplished by the so-called "open tank" process. This consists of heating the wood for a certain period and then cooling it in the preservative. During the heating, the air and water are forced out; then, when the cooling takes place, the cells absorb the preservative.

The barrel outfit, shown in one of the pictures, is the simplest form of a treating plant. It consists of two creosote barrels, placed about seven feet apart and connected by a three or four-inch pipe. The heating is accomplished by building a fire under the pipe. This is considered a handy outfit, especially when only a few posts of readily impregnated wood are to be treated.

For treatment with creosote some importance must be attached to the size and form of the posts. The removal of the bark and the seasoning of the wood are important. At present many posts of large size are used in order to strengthen the fence after decay sets in. Such large posts are unnecessary if proper preservative treatment is given. The tops of posts should be cut obliquely to shed rain water. A bevel made with an ax is preferable to one made with a saw, because it is smoother. Beveling is particularly important if the tops of the posts are not to be treated. Under favorable conditions the average period required to season posts is five weeks. A simple method of determining the degree of seasoning is to weigh a few representative posts every few days. As a rule, an air-dry condition is reached when the loss of moisture is less than one pound per post (of five inches average diameter) during five days of good seasoning weather.

It is well known that different woods vary greatly in weight and strength. They also differ in the ease with which they absorb the preservative so that each species requires a different treatment if best results are to be obtained. In the experiments conducted by the forest service and its co-operators the purpose was to determine the best treatment for various woods. Most species will absorb too much creosote if a very long treatment is given. To make the work economical the absorption must be limited to four-tenths gallon per post if only the butt is treated, or six-tenths gallon per post if the top also is impregnated. Woods which are naturally durable in contact with the ground, such as cedar, locust, white oak, and black walnut, were included in the experiments. A heavy treatment is required to impregnate their sapwoods and their heartwoods cannot be successfully treated. These woods are too expensive to be treated and cost more than cheaper and equally satisfactory posts that can be had by creosoting an inferior wood. Such woods as beech, maple, pin oak, pine and sycamore are easily treated.

The cost per post for treatment will vary in different sections of the country. The size of the post will affect the cost. Creosote by the barrel varies widely according to locality. In the eastern states it costs 12 to 15 cents per gallon while on the Pacific coast it costs from 15 to 20 cents. Ignoring labor and fuel cost it may be safe to say that the cost of treating posts in the middle West will range from 10 to 15 cents each. In the prairie region of Minnesota willow posts of sufficient size to last fifteen years cost 25 cents each. A pine post when treated will last approximately twenty years. The post costs 18 cents untreated and 33 cents treated. The untreated post will last about four years. The statement has been made by the forest service, in one of its bulletins, that any post properly creosoted will last twenty years.

The experiments which the forest service has been carrying on emphasize the fact that in many localities the need for the preservative of farm timbers is imperative. It may seem to some farmers that the work is difficult. This does not mean that this work should be neglected. A small wood-preserving plant could be profitably operated in connection with a threshing outfit, a feed mill or sawmill. Several farmers could co-operate in establishing and operating a plant. As an indication of the success which should attend such an undertaking, the co-operative creameries of various sections of the country may be cited. It cannot be too strongly emphasized that every agricultural district or community should possess the facilities for increasing, by preservative treatment, the durability of farm timbers used locally.

RUSSIAN THISTLE GOOD FORAGE.

The use of the Russian thistle, long considered an enemy by the Kansas farmer, was indorsed by the horticultural department of the University of Kansas in an opinion announced by William C. Stevens, professor of botany, says a newspaper dispatch. Professor Stevens's conclusion is the result of a thorough study of the thistle question undertaken after a number of western Kansas farmers had announced the successful use of the Russian thistle in feeding live stock. Conservative farmers had regarded thistle feeding as a "crazy notion."

"If the weed is cut before the second leaves get their growth I see no reason why it should not make good feed for cattle," said Professor Stevens. "It would have to be cut when the first leaves are green to avoid the hard bristle of the second leaves. In some sections of the state it has been proven definitely that the thistle keeps for a reasonable length of time. The plant has nutrient value only a little less rich than alfalfa."

The Chinese wood-oil tree is the subject of a circular by David Fairchild recently published by the United States Bureau of Plant Industry, the publication being to advocate an extensive cultivation of the tree in this country, where it has been grown in a small way since 1906. The importance of this is shown by the fact that 5,000,000 gallons of wood oil (also known as tung oil), made from the seeds of this plant, was imported from China last year, and the product is said to have had a revolutionary effect on the varnish industry of the United States.

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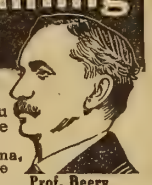

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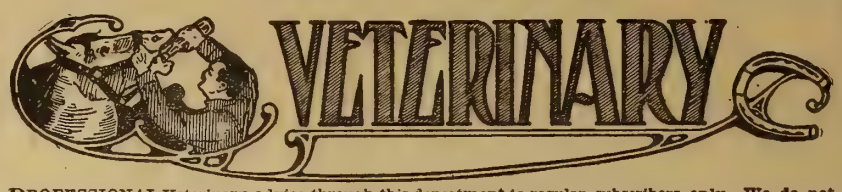

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

BLOODY MILK.

Have a red cow that came fresh a week ago. She is in good shape and seems well, but gave bloody milk at the last milking. There is quite a little blood in the bottom of the milk after it stands awhile. She ran on timber pasture and was fed corn fodder.

Bathe the udder with cold water three times a day and at night bathe with strong alum water. If she is not in calf give her one dram of dried sulphate of iron and two of salt in her feed night and morning until the milk is normal. Milk gently.

PADDLING.

How can I best correct the action of a mare that throws her feet out to the side when she travels fast? She is all right when she takes an easy gait, but when she goes fast she spraddles out behind and in front. She is three years old and was broken last spring.

The shoer may be able to somewhat correct the abnormality of gait by weighting the hoofs with toe weights which are adjustable; then he can weight the shoes when the proper place to put on the weight is ascertained. It is quite likely, however, that the errors are due to poor conformation and if that is so shoeing may not help materially.

FISTULA—BOILS.

(1) Two years ago I bought a nine-year-old Norman mare that had had a fistula which was supposed to be cured. She had a fine mule colt last June and worked all summer. In August her neck swelled up so she couldn't wear a collar. A veterinarian opened this and took out at least a gallon of matter and has been putting iodine in since. This place has been discharging matter all the time. Can she be cured? (2) Some of my milk cows have boils on their udders that burst and we can't use the milk.

(1) The fistula should be curable, unless it happens that a sinus (pipe) runs down back of the shoulder blade (scapula). The veterinarian should lay the abscess wide open and then cut out dead tissues, swab with tincture of iodine and afterward pack the cavities full of oakum saturated in a mixture of equal parts of turpentine and raw linseed oil. Renew the dressing daily. He should also treat the case with hypodermic injections of polyvalent or autogenic bacterin. (2) Swab the swellings with tincture of iodine once daily until soft; then open, evacuate pus and go on using the iodine until healing is complete. Infection, possibly from dirty floors, causes such conditions.

HEAVES.

A gray mare twelve years old has shown signs of heaves. What can I do for her?

Feed wet straw and roots or a little silage in place of hay and grain. Give her half an ounce of Fowler's solution of arsenic night and morning. Do not feed any bulky feed at noon, when there is work for her to do and do not work her soon after a meal.

DEATH OF COW.

Our two-year-old Jersey cow was taken sick and died inside of three weeks. We first noticed her moping around with her head down in the forenoon, though she gave her usual amount of milk, about five quarts, that morning. However, that night she gave only about one pint. The next morning she seemed a little better, but that night she got worse. We drenched her with raw linseed oil and gave her one-half pound of salts. She would lie flat down and occasionally look at her side and groan. She finally gave only a tablespoonful of milk that was yellow and thick. One morning I noticed a swelling along her throat under her head, which extended clear down her throat and finally she became swollen between her front legs. This seemed to be in cakes. On her right side the swelling extended past her front leg, and it seemed difficult for her to breathe. She would eat scarcely nothing from the start, although we gave her oats, rolled barley and bran with green and dry alfalfa. The oats passed whole. After she died we opened her and there was water around the heart and lungs. The outside of her heart had a greenish cast and a tumor on it.

The symptoms are such as we see in cases where a cow has swallowed some foreign body, such as a needle, pin, nail or piece of wire and it has penetrated the second stomach and pierced the wall of the heart. The lesions found on post-mortem examination also corroborate this diagnosis. There is no remedy in such cases.

TUMOR.

A sow two years old was weaned of her pigs last spring. Soon after an enlargement formed on her udder and it keeps growing larger. Would you advise me to cut it open or is there some medicine that will dry it up?

Rub the enlargement with iodine ointment each other day and if that does no good try oleate of mercury, used in the same way. We fear however, that the tumor is actinomycotic and incurable, unless you can have it cut out by a qualified veterinarian. Hogs do not well stand such operations, but tend to die of shock.

CHOLERA.

I have a strange sickness among my pigs and I have already lost two. They refuse to eat and get weak in their backs and their eyes get sore. I fed oats for two months, but have changed to corn now. They are running on pasture and I keep charcoal before them all the time in a self feeder, but them seem constipated. Fifteen are sick now out of sixty pigs that are all running together.

Hog cholera is in all probability present and you should at once employ a veterinarian to make an examination and vaccinate the remaining hogs. Cholera shows several different forms and this may be one of them; but a post-mortem examination would be likely to show ulcers and tufted sores on the lining of the large intestine and red spots on other internal organs.

BLACKLEG.

I have a pasture which seems to be infected with blackleg. Will you please advise me if the contagion stays in a pasture after once it gets there and if there is any way to get rid of it without plowing the pasture? How long is it before a cow takes the disease after being exposed to it? Does vaccination prevent the disease?

The contagion of blackleg stays in the pasture and we know of no way of getting rid of it. Drainage helps. In Europe it is a common practice to top dress affected pastures with crushed rock salt. Cows do not, as a rule, take the disease. It attacks cattle under two years of age. Vaccination, properly done with fresh, reliable vaccine is a certain preventive. Infection shows up in a week to ten days, and in virulent cases, may come on quicker than that.

BLOODY MILK—CATARRH.

(1) A three-year-old heifer fresh in July is in good health so far as we know, but she gives bloody milk out of one teat once in a while. (2) Have also an eight-year-old black horse weighing 1,400 pounds. He often has a thick, white discharge from the nose and coughs occasionally. Has good life and seems to be in best of health.

(1) Growths may be present in the milk duct of the affected quarter and if that is so they will have to be removed by a surgeon. Milk gently. If growths are not present foment the affected quarter with hot water three times a day, when the blood is seen in the milk, and at night rub it thoroughly with a mixture of one dram each of fluid extracts of poke root and belladonna leaves in six drams of druggists' soap liniment. (2) A diseased molar tooth may be the cause, and if so it would be removed by trephining, which will require a trained surgeon. If the teeth are sound and the horse is known to be free from glanders, give him a dram of dried sulphate of iron in his feed night and morning for ten days, then a dram of powdered sulphate of copper twice daily for ten days, then a similar dose of iodide of potash twice daily for ten days. Alternate these treatments until well.

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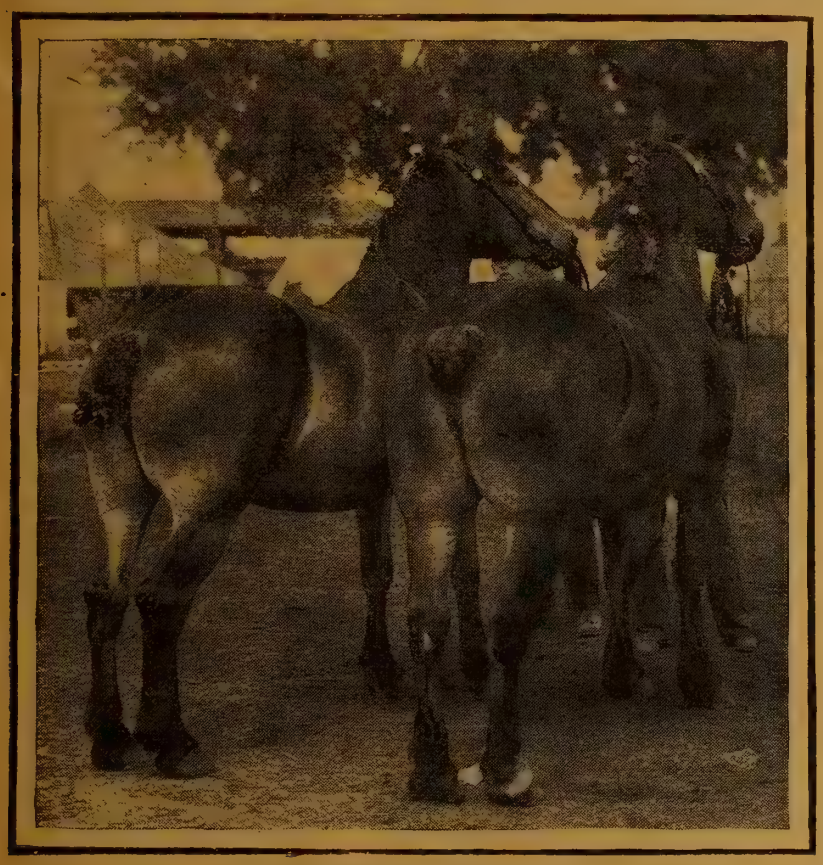
Methods By Which Both Renter and Landowner Succeed.

SOME time ago a farmer who owns a fair-sized farm saw he had a problem to face. He found it was getting more and more difficult to keep the farm work going. He had no boys of his own and the men he hired to help him were only fallible. His farm was an excellent one. Two hundred and forty acres of it were plowed land. He had a section of the best pasture land in the state in addition. This farmer decided to quit farming, and he was undecided whether to sell his land and put the money out at interest or to lease the farm to some man who had the help and who was an experienced farmer.

Hundreds of landowners are facing the same problem today, and the results obtained by this man when he rented his farm may give some idea of the profits which may be expected from land leasing. First, it is necessary to give a general description of the farm. It was well improved. The barn was a large structure, giving ample room for all horses and mules. The hay barn was large enough to hold most of the hay which would be mowed during the summer from forty acres of alfalfa. Around the hay barn the shed for cattle was built. Room



IMPORTED BELGIAN MARES.

Two high-class, prize-winning, imported Belgian mares owned by R. F. French, Independence, Iowa. He has this kind for sale. See page 42.

was provided for three car loads of steers. The stock cattle had a separate corral farther to the south.

There were two hog houses. One was built especially for the brood sows to occupy. Watering facilities were seen to; and the farm buildings and the stock corrals were in shape to give the best results and to prevent loss of time in handling the livestock.

An experienced farmer who was a rustler leased the farm. We will call him Williams. Williams and the landowner signed up the papers the first of March. The shares were to be half and half. After attending to the papers an inventory of the stock and grain on hand was taken. At the time there were about 170 head of cattle in the corrals, and over 100 head of hogs. Williams bought half the stuff. They were now even and future gains could be easily kept account of. The cattle and hogs were all passed over the scales, thus it was possible to figure accurately as to their present worth.

Williams was to furnish all the labor; the landowner agreed to keep the fences, farm buildings, etc., in repair. Williams furnished the horses and machinery necessary for running the farm. Williams kept thirty brood sows and planned to raise spring and fall pigs from them. The section of pasture was occupied by as many cattle as was wise to put in it. There were two loads of steers which would be ready for the feed corral in October, put in the first spring the farm was rented. The remainder of the cattle were stockers and cows with calves at side. Both Williams and the landowner were enthusiastic stockmen. They were interested in grain only because it was needed for feeding purposes. Corn was the grain Williams wished to grow in the greatest possible quantity. Of course, it would be necessary to change the ground occasionally to wheat, etc., but by heavy manuring Williams believed he could keep the ground in a good state of fertility without too frequent changing.

The spring pig crop that first year was rather unlucky. From the thirty sows Williams saved only 160 pigs. Some of the sows missed entirely; others had their pigs during cold weather and they chilled to death. It was the renter's intention to rush the pigs and get 'em to market during the first part of the coming winter. The sows were fed plenty of nourishing feeds such as bran, shorts and corn while the pigs were with them. When the pigs were weaned they were put in a pen for a few days until they forgot their mothers, then they were ready for the alfalfa pasture. While running upon the alfalfa during the summer they were fed a balanced ration of grain in addition.

The alfalfa hay was expected to be the most profitable crop harvested; so Mr. Williams planned in advance how to handle the successive crops with the least labor and loss of time. As most of the hay was to go into the hay barn sweep rakes were useless. Hay racks and a loader were required. The loader took the place of three or four men and never played out during some particularly hot afternoon. Hay slings were used, which made the labor of unloading practically nothing.

One hundred and seventy-five acres were put in corn. Williams was a soil specialist and adapted his seed to the different grades of soil. In the rich bottom land he planted big, bloody butcher and yellow dent varieties. The streaks of clay and thin soil were

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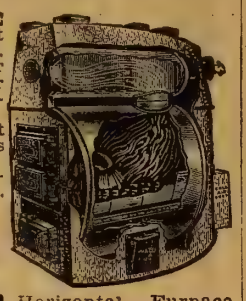

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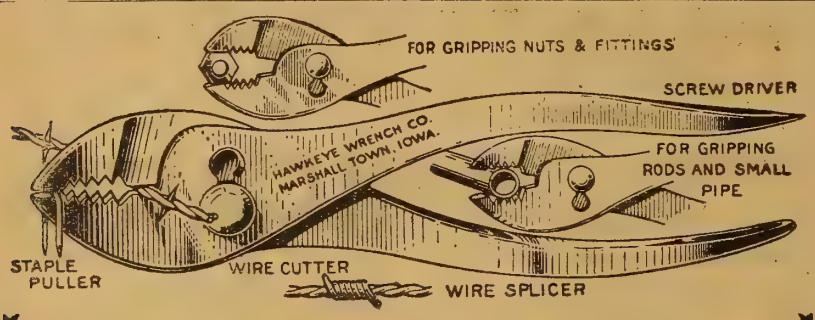

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put in white varieties which did not require so much soil nourishment. The corn was planted with a lister and surface planter. The ground, which had been in wheat the ear before and was fall plowed, was disked twice, harrowed smooth, then surface planted. The stalk ground was listed.

The farm machinery used by Williams was of the latest pattern. The listed corn was tended with a double row lister cultivator which had large disks to throw out the weeds, and, in addition, had two pair of small shovels to stir up the ground around the corn. Two times over with this machine, followed by good plowing with the regular cultivator, finished the corn up in good shape. Three mowing machines were put in the alfalfa meadow when the first crop was ready. Williams wished to have the hay dry as evenly as possible. Two rakes were used to put it in windrow ready for the loader. In handling alfalfa with a loader it was best not to let it get too dry. When this happened the leaves fell off, causing considerable waste. By the time the second crop was ready to harvest the first crop was well settled in the hay barn, and had thoroughly cured.

The alfalfa meadow yielded 175 tons from the five cuttings. The hay barn was filled and Williams was obliged to stack a considerable quantity in the open. This made it handy when the time came to feed the stock cattle and cows during the fall and winter; for the fattening steers took up all the room around the hay barn. During the month of October Williams brought the steers home from pasture and put them in the feed lot. He weighed them before doing so, and was pleased to see they had made a fine gain during the summer. This was not to be wondered at; for the pasture was an exceptionally good one. There was a moderate amount of old corn on hand, and the steers were fed this first. The convenience on this farm for cattle feeding were unsurpassed. An eight horse-power gasoline engine drove the feed grinder. A reservoir was kept filled with water so if something should happen to the cylinder or piping of the well, the steers would not need to suffer from thirst.

While corn and alfalfa formed the bulk of the feed stuff, other articles of merit were not neglected. Oil cakes and sorghum cake were fed in small quantities to balance the ration. No one throughout the country got better results from stock feeding than Williams did. He arranged his feed troughs for corn chop, etc., in a row straight south from the granary where he kept the feed. He rigged up a strong cable from the granary to the feed troughs, and upon this cable he ran a feeder carrier. This cut the labor of feeding in half. The hogs, which were being fattened for market followed the steers. The brood sows were kept in a separate enclosure, as were the fall pigs. The sleeping quarters of the fall pigs were kept dry and warm; clean wheat straw was used to bed all the hogs. The grain ration fed to the fall pigs was the same as was fed to the ones raised in the spring; but instead of the green pasture they ate alfalfa hay from specially prepared racks. The last crop of alfalfa was reserved for hog feeding, for it was more suited for the purposes, being more tender and tasty.

The steers were fed for 120 days. One load of fat hogs was shipped at the same time the steers were. The remainder of the hogs which were fat were sold to a local buyer. Williams struck a good market; both the cattle and hogs sold well. He found the gain on the steers, from the time they were put on grass the spring previous, to the time of marketing, was close to $1,500. The car load of hogs brought between $1,300 and $1,400. The hogs sold to the local buyer, brought around $400. While Williams was at the stock yards he purchased two cars of three-year-old stock steers to take back with him. He intended to pasture and feed these the same as he had done the ones he had just marketed. In doing this he had the full consent of the man whose farm he rented; for what cattle they had left suitable for feeding purposes were to be put through during the summer.

Williams and the landowner made a reckoning the latter part of the winter to ascertain what their profits were for the year. The gains were satisfactory; but of course were not what they would likely be when the summer-fed stock was counted in. The fall pigs were put on full feed as soon as the alfalfa was about eight inches high that spring. From this time on they were fed nothing but corn and alfalfa. This ration was very satisfactory for hogs of that description; for they already had good bone owing to their balanced winter ration. Williams had the spring crop of pigs come later that second spring. His experience of a year ago had convinced him that in a climate where the weather is changeable it is best not to be in too big a hurry.

The summer-fed steers were kept in a corral where there was lots of shade. There were a few heifers fed also. Following the cattle were what runt hogs that had accumulated on the place. The runts soon began to broaden out and grow; before they had appeared to get smaller every day. The summer-fed cattle and hogs were shipped out in July. The hog market was excellent and a good profit was assured on the bunch Williams shipped. Nothing was lost on the cattle; but no great profits resulted from this bunch. Summer feeding was not as profitable in this case as winter feeding.

With the supply of hogs being renewed every spring and fall, and a large number of calves coming on Williams and the landowner could not help making money. The landowner saw that in the hands of a capable renter who had plenty of help of his own, his profits would be greater than if he had farmed the place himself and had hired indifferent help.

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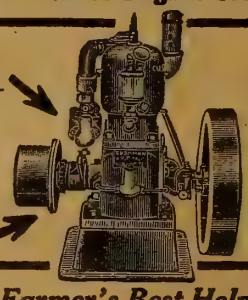

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In and Around Wisconsin

ABOUT five years ago a swarm of bees entered the residence of John Williams southeast of Montfort, coming in through an aperture in the roof. Their presence was not observed until one day Mrs. Williams noticed a little pool of honey on the dining-room floor. It appears the comb became to heavy, had fallen and the honey penetrated the ceiling. Recently men repaired the roof and found three sections between the studding filled with comb and honey to a depth of five feet. They removed enough honey to fill two large wash tubs.

Edward Block, of Watertown, recently shot a gray fox, an animal that has become very rare.

Over 6,000 bushels of potatoes were harvested this fall on the farm of the Milwaukee County Hospital for the Insane at Wauwatosa, the crop averaging 190 bushels to the acre. Six thousand bushels have been stored away for home consumption. In the neighborhood of Harvard, Illinois, the potato yield was low, the average being the lowest experienced in many years. Farmers there have been selling them at 90 cents a bushel, and even then dealers find it difficult to obtain them, the growers holding the product in expectation of even higher prices later on. In northern Wisconsin the yields have been much larger and the prices lower. Joseph Raymond, a Forest county farmer, living near North Crandon, harvested 13,000 bushels of potatoes from 100 acres of land.

The planting of willow trees along highways has been declared a nuisance in Illinois. Highway commissioners are required to destroy all cockleburs, Canada thistles, noxious weeds, and brush growing on or along the roads, and to pay a fine of from $10 to $25 for every season that he neglects to do so. All public roads must have a standard width of forty feet and no bridge or culvert may be built that will not sustain a weight of at least 100 pounds per square foot, the penalty for violation being $200. Any person driving a team, whether his own or the team of another, on public roads, while intoxicated, is subject to a fine of not less than $3 nor more than $25. Road commissioners have the power to go on the lands and premises of any property owner and take gravel or any other material they may need for making roads, after paying or offering to pay reasonable compensation.

That inefficient cream separators cause a big loss to farmers has been demonstrated by F. G. Swoboda, county agricultural representative for Langdale county. The tests were conducted at the creamery of Frieder Brothers, of Antigo, who had become suspicious that their patrons were not getting the proper returns from their milk. The man in charge of their milk route was instructed to get samples from all the farmers along the route who were willing. Nineteen responded. Of this number seven came within the standard set, which was that a separator should not allow more than .03 of 1 per cent of fat to pass into the skim milk, the test varying from .01 to .03, most of the seven samples running at .01 and .015. One sample showed a fat content of .8 per cent. On the basis of a milk yield of 100 pounds per day, this separator at this rate would be losing to the farmer .675 pounds of butter fat or about .8 of a pound of commercial butter. This, at 30 cents per pound, would amount to 24 cents per day, or $7.20 per month, and $5.40 per year, or almost the price of a first-class separator. While this test was by far the poorest made, there were other separators which showed up very unfavorably and each meant a considerable loss to the owner. As the make of the separator used was known in each case, and a number of different makes were represented, it was evident that the high per cent of butter fat in the skim milk was not due to the make of the machine. In a few instances the machines had been used for a number of years and were probably worn out. In the majority of cases it was evident that the separators were in need of adjustment. To determine whether or not a separator is skimming properly samples of skim milk should be taken from time to time and set aside. If after it had been standing but a few hours cream can be seen on the surface it is safe to assume that the machine is not working as it should. Creamery owners are in the most instances very willing to test the skim milk for their patrons.

George Foster, a farm hand employed by Gilbert Neff, residing near Neenah, recently husked 112 bushels of corn in ten working hours, which is declared to be a record accomplishment.

More than sixty car loads, or approximately 45,370 bushels, of apples were shipped out of Reedsburg this year.

L. Aderhold, dairy inspector, has caused the arrest of seventy-seven persons for maintaining unsanitary conditions in cheese factories and creameries, all of which arrests were made during the last six months. The total amount of fines paid was about $1,850.

Near Fond du Lac a black eagle measuring six feet eight inches from tip to tip of its wings and weighing twelve pounds was shot by Peter Thuerwachter.

Farmers in the town of Rockland, Brown county, report the loss of hundreds of turkeys through cholera. One lost about seventy-five out of his flock and another 150.

Shipments of sugar beets on the Chicago and Northwestern line are evidence of the fact that the reduction of the tariff on sugar has not affected the acreage devoted to this crop. Last year only 300 cars were shipped over the Fond du Lac division and this year about 350 car loads will be transported. Most of them are to go to the Menominee plant, but some are shipped to the Madison plant.

W. E. Holland, of Chillicothe, Ill., has purchased 320 acres of unimproved land in the Portage county drainage district, west of Coddington, at $75 an acre, or a total sum of $25,000. Before draining this land was comparatively worthless.

The first train of Canadian cattle shipped since the enactment of the new tariff law passed through the state on October 21st. There were twenty-seven car loads of "duty-free" steers on the train.

Five chestnut trees are growing in Durwards Glen in Caledonia township, Sauk county. They are an exotic in this state and very rare. The trees mentioned produced a good crop of the nuts this year.

The bean crop in the vicinity of Portage has been seriously damaged because of the continual rains. Farmers have experienced great difficulty in harvesting it. On the Samuel Lafler farm, near Wyocena, eighty bushels were secured from fifteen acres and sixty-eight bushels were threshed by Frank Kershaw on a ten-acre tract at the G. P. Pearson farm.

According to the statement of the assessor of incomes in Sauk county there are 68,590 apple trees, 22,852 hogs, 10,385 sheep, 26,594 cows, and 14,897 horses in that county.

Since pumping ceased at the mines in and about Platteville the water level has raised several feet. Wells that were pumped dry several years ago may again show a good depth of water.

Peas, corn, and tomatoes were packed at the Albany factory this year. The output was 4,127 cases of peas, each containing two dozen cans, 761 cases of corn, and 4,897 cases of tomatoes. To the farmers there was paid for peas, $1,597.56; for corn, $192.53; for tomatoes, $2,433.86. The total expenses for the season were $17,821. Next year the acreage will be greatly increased.

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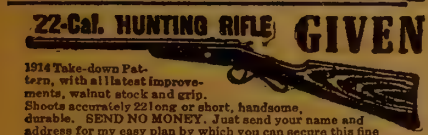

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FAWN AND WHITE Indian Runner ducks and drakes, October sale, $1.00 each. All winners. Address Bert A. Randell, Mt. Zion, Iowa.

FAWN AND WHITE Indian Runner ducks and drakes, $1.00 each; $10.00 per dozen while they last. Write Mrs. Howard Niswander, Kinross, Iowa.

INDIAN Runner ducks, fawn and white, for sale. Prices, $1.50 each. Good, strong and great layers. Address Mrs. W. H. Mann, Malcom, Iowa.

75 Indian Runner Ducks pure fawn and white, fawn heads, $1 each. Mrs. Will Michael, Selma, Iowa.

When writing to advertisers please mention The Homestead.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

LATE POULTRY WORK.

To the Editor of The Homestead:

It is well to have all the necessary late fall work in the poultry yard accomplished early in the season. There are several advantages to be derived from early action, the principal one being that where the work is postponed until the last minute, it is very apt to be overlooked entirely.

Just as the spring months should be a general clean-up time in the poultry yard, so should the fall months be a time of general preparation for the long siege of winter.

The most important thing in fall poultry work is to cull out the flock and retain only those individuals you believe will return you an actual profit. To keep drones in the poultry yard will, in the end, be as disastrous as keeping drones in the bee hive. If you wish your hens to earn revenue for you, you must discard all but the workers in the flock.

There are various methods of judging the fowls in the process of culling the flock, and many devices have been patented for that purpose, but the general farmer who labors under conditions as they are found on the average farm today, will do well to follow what might be designated as the "sight" method; that is, judging the individual by its general appearance, its characteristics and general behavior. Of course, this method is subject to many mistakes on the part of the judge, but it will be found the best to follow under average conditions.

Before one can hope to cull out the flock intelligently under this system it is necessary that he learn the characteristics of a good hen or a good cock.

There is a great difference of opinion among the authorities as to what a good hen and her characteristics really are. It is natural that there should be this difference of opinion, and it isn't a bit more strange to find it true that poultry experts should differ as to their idea of a good hen, any more than it is that a number of horse specialists should differ in their respective ideas of what constitutes a good horse. This very frequently happens and more than likely will continue to happen as long as nature gives men the power of free reasoning.

The general agreement seems to be that a good hen is a healthy one. It is natural to assume this fact. If she were not in the best physical condition it is unreasonable to expect that she will be capable of producing a large number of eggs. The production of eggs is the act of reproducing the species, and it is a well-known fact that this is not done, where the act is under the control of nature, unless the individuals be of the best possible condition. So a good-laying hen must be strong physically.

Then she should be strong constitutionally. This requirement is closely allied with that of good health, but there is a distinction between the two that should be recognized and kept in mind. Many people, especially those who are uninformed, confuse these two requirements often thinking that they represent and stand for the very same thing. But, as a matter of fact, a fowl may be strong physically and weak constitutionally. According to the general meaning of "constitutionally strong," we have come to signify that the specimen is a good breeder and capable of reproducing the species. A hen may be strong physically, but absolutely barren as far as reproducing the species is concerned, and she is therefore not strong constitutionally. This distinction should be kept in mind. Possibly the reason why the two have been confused in the past is because they are usually found together; in fact, as a rule, they are. But we merely mention the exception to explain the distinction between the meaning of the two terms and to show that it is entirely possible that they do not exist in common with each other.

Another characteristic that should always govern in the selection of fowls to make up the flock should be soundness of color. Some people may claim that they do not think soundness of color amounts to so very much when they do not intend to breed exhibition fowls. This is not wholly true as color is a very important element in breeding birds for any purpose, and it is just as easy to keep fowls with strong color in the flock, other things being equal, as it is to have a flock of fowls that have every shade of the proverbial rainbow.

Shape is probably the most important element, outside of physical and constitutional vigor, that enters into the list of characteristics that must be observed in culling the flock. It is shape that makes the breed, and shape should always be closely followed. It is generally agreed by the authorities that a heavy-laying hen has a shape peculiar to her activities along this line.

The Kansas station has claimed that a heavy layer in shape very much resembled the letter "V" from the side view. She should be of great breadth in the regions of the abdomen, and is of a slightly rangy type. This does not mean that she is a fat hen, but the fact that you have a fat or rather heavily-built hen does not mean that she is a poor layer.

Generally speaking, the hen or pullet that is full of life, always on the go, full of health and constitutional vigor, and of a type or shape that signifies that she is capable of producing a large number of eggs, is the hen or pullet to select for your winter flock. In the matter of culling out the pullets, it is generally a good plan to be governed slightly in your selection by picking out those individuals that have been especially fast in developing. The slow growers, the dwarfs, or the runts have no right to belong in the flock. They are the drones and will eat up your revenue. They are the ones to fatten for the holiday markets.

In selecting the cocks and cockerels to keep over for use during the spring breeding season, about the same principles will apply as were used in selecting the hens and pullets. Of course, there are a few exceptions that must be kept in mind.

The cockerel or cock should be selected, where he is intended for general uses on the farm and not to breed show birds, largely for his physical and constitutional vigor. That should be the thing pre-eminent in the selection of the male birds. Then look to size, color, shape, general appearance, etc.

Probably it is of greater importance to cull out the males thoroughly and strictly than it is to cull the females of the flock. A very great damage is done each year by farmers allowing males to run at large with the flock that are physically incapable of making good breeders. The damage caused is in the great number of weaklings that are produced, which, in a generation or two, will weaken the flock to the extent that an entirely new start in blood will be necessary. If this matter is carefully guarded by culling the males closely each fall, it will not enter your flock.

After the flock has been thoroughly culled, the next thing of importance is to provide a place to house them during the winter. If an old house is used, it should be thoroughly cleaned and whitewashed. New straw should be placed on the floor for litter, new nesting material should be provided and things cleaned up generally. It would do no harm to close the house up and burn sulphur inside for a period of ten or twelve hours. This will serve to kill any disease germs that may be present and to give a general sense of cleanliness to the place.

Another important thing that is very often overlooked on the average farm is that of providing proper and ample means of ventilation during the winter. If there are very few windows in the house, more should be cut out of the walls. It should be remembered that we no longer keep hens in houses dark and gloomy, as was the method employed fifteen or twenty years ago, but we keep them under conditions as nearly like those of nature as possible.

It is a very good plan to have nearly the entire south side of the house either in glass or in muslin frames. Far better results will be obtained when this is done and you will be surprised at the end of the year, what your hens accomplished with so little time spent on your part to set them on their feet, so to speak, and give them the proper opportunity to make good.

Chesla Sherlock.

STEPPING UPWARD IN BUILDING POULTRY HOUSES.

To the Editor of The Homestead:

In the past quarter of a century we have built on our farm five poultry houses, besides a number of small buildings for chickens. The first two of these were built after the same plan and were quite simple in their construction, having been put up before we really knew what we wanted and patterned after those in common use in the locality where we had taken up our home. The others which came a number of years later, being, in fact, the product of all we have learned during the twenty-five years, present numerous and important differences, both in appearance and in serviceable features. These have all been built in the past three years, one of them now being in the process of construction.

Without stopping to contrast these various houses, let me very briefly refer to this, the latest of our houses, which we hope to have completed in a few weeks, now. The ground on which this house is situated is not exactly level, sloping gradually toward the west and south, so that we have had to fill in to a depth of two and a half or three feet at the end farthest away from the entrance. In one respect we are favorably situated, although we sometimes do not count it a fortunate circumstance that our land is pretty stony. In time of plowing and harrowing we sometimes wish we had a good many less stones; but they do come in handy in filling in for the new poultry houses. The two houses already built have had a good bottom of small stones, but by skirmishing far and near and picking the land over pretty carefully we have managed to get together stones enough to bring the bottom of the new house up to the sills. These stones we have laid in closely, so that the finer material placed above them might not settle and break the cement surface which will cover the whole when the floor is done. The first house we built I pounded the stones down with a heavy maul, breaking them as fine as I could. This was a good idea, but by taking pains one can place the stones by hand tight enough so that not much of the upper material will find its way through them.

On the top of the stones we put a good layer of coarse gravel. This rattles down through the interstices and helps to make a tight bottom. Then the floor is ready for the surfacing, which is laid of cement, just as we mixed it for the floor of the big barn.

Here I may say that the floor of the first of these last three houses was made of earth and gravel, but while this was an improvement over the old board floor, we would not put down another that way, and we are only waiting an opportune season to lay a cement surface over this. The hens eat up the finer portions of the gravel and the rest gets too unclean. One thing we have learned and that is that the floor of a hen house ought to be smooth enough so that any litter

POULTRY PAPER 44-124 PAGE periodical, up-to-date; tells all you want to know about care and management of poultry for pleasure or profit. **Four** months for **10** cts. **POULTRY ADVOCATE, Dept. 124, Syracuse, New York.**

BRAHMAS.

PURE BRED LIGHT BRAHMA COCKERELS for sale at $1.00 each. They are good ones. Mrs. J. M. Dries. Ashton, Ia.

MY HEAVY WEIGHT, Light Brahmas won 14 premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

or foul stuff on it may be shoveled off and hauled away. Cement makes an ideal floor in this respect.

As we have come along, we have more and more learned the importance of light. Our new houses are all located so that the sunlight may fall through the windows as long in the forepart of the day as possible. If I could have my way, I would build my houses on a pivot so that they could be whirled round as the sun shifts its course in the sky. Perhaps we may some day come to this, or to the fashion of making circular poultry houses, as some do round barns.

One of our later houses we made so that between each pair of windows there was an open space covered with muslin. This lets in some air and light. But not enough of either, as we afterward concluded. So the one which came next and the one we are now building will not show these openings, but will have ventilators running from near the floor up through the roof. We think houses thus ventilated are more free from damp than those with the muslin-covered openings.

We have learned that this is an item of no slight importance, for dampness has cost us more than we probably know in the efficiency of our birds. Hens are quite like human beings in this respect. Anything which lowers their vitality has a direct bearing upon the work they are liable to do. That damp houses do take something away from the health of the flock, by reason of colds and coughs cannot be disputed. In order to add to the freedom from damp, we have been insistent that the floors of our houses should be well up off the ground. A little work hauling stone to fill in with is far less costly than diseases due to dampness.

Gradually we have dropped the wet-feed method of feeding. All our poultry of every age is fed by the hopper system. This not only saves work, but, as we now look at it, at the same time furnishes the birds a variety of feed and in such proportions as they are inclined to use it. Some days more wheat will seem to be required. Other days there will be a run on corn. It depends on the needs of the birds. Does it not seem as if they were after all the best judges as to the nature and quality of the food demanded?

All the rest of the farm buildings having been painted as we have improved them from time to time, we have given the last three houses a coat of paint, too. To make this the more possible we have sided the buildings with novelty siding which takes paint well. The body of the houses is covered with red paint, trimmed with white, so that even the hen houses add something to the handsome appearance of the place. The two little old houses we now use to store the different things we need about the poultry work and for the storage of feed.

We do not claim to have reached the top notch yet in the poultry business, but we have made some progress, and the best part of it all is that we have found it profitable. E. L. Vincent.

ADVANTAGES OF PRIVATE SCORING.

To the Editor of The Homestead:

As the season for the sale of poultry draws near, one's thoughts naturally turn to getting the most possible profit out of the stock. Owing to the high price of eggs and the still higher price of feed the past season the dollar bird has been eliminated from the list of profitable ones, and it is good judgment to put all inferior birds on the market for table use. But the better class, those reserved for breeders for ourselves or to be sold as breeders, are the ones we look to for profit, and it behooves us to get their full value. For the big breeders, those who have bred, exhibited and advertised until they have acquired a reputation, this is an easy matter. But for the small breeder it is a very different proposition, and it is for this class I would urge private scoring, which has many advantages.

First: It sorts the flock.

Second: It shows the breeder in what sections his flock is weak, enabling him to select his breeders for the coming season so as to overcome the defect.

Third: It is a disinterested party's description and valuation of the bird, thereby reducing the responsibility of the selling party to a minimum, and at the same time guaranteeing to the buyer the quality he has a right to expect.

Many a case of dissatisfaction could be avoided by the use of a score card. Many a $5 bird has been sold to the butcher that would have met with ready sale and been profitable to both the buyer and seller, simply because the owner has no proof of the bird's quality and the prospective customer had to be shown. There may be a single bird in your flock on which a score card would increase the value enough to pay for scoring the entire flock.

In conclusion let me say, find out the quality of your stock, then advertise, and you will bless the day you read this article. Poultry Breeder.

PROBABLY APOPLEXY IN FOWLS.

An Iowa subscriber is puzzled as to what is the trouble with his flock of bright, apparently normal, flock of fowls. In his communication he says:

I am a reader of your paper and it would be a favor if this is answered in an early issue. I have about 150 nice looking chickens, they seem to be all right, but they just tumble off the roost dead. What is the trouble and what shall I do for them?

The immediate cause of apoplexy is the rupture of a blood vessel in the brain, causing instantaneous death or paralysis. The cause is invariably attributed to an overly fat condition which is partly correct.

However, the overfat hen is a myth, so long as it is solid muscular fat induced by correct feeding and adequate exercise. An excess of fat coupled with poor condition, meaning fowls that are overfed with the wrong ration, causes weak, flabby fowls that are subject to disease.

The lighter and more nervous breeds are rarely troubled in this manner. If they do, which is sometimes the case, they rarely succumb, unless frightened. The heavier breeds and older fowls frequently succumb from heat or on the nest, and sometimes, as our correspondent states, they drop from the perches dead.

Little or nothing can be done in the way of treatment. Give less carbonaceous feed, more green stuff, and induce exercise.

POULTRY AS WINTER COMES ON.

To the Editor of The Homestead:

From all present appearances there will be pretty good money in poultry keeping for the next few months at least. Prices for both eggs and meat are simply soaring. It is a most favorable outlook from the standpoint of the farmer; and we ought to place ourselves in a position to make the most of it.

For one thing, we might add a few hens to our present flock, provided we have room in the house for them. If the increase must be made at the expense of room, better not try it, but depend on better care of those we can properly house for our surplus eggs.

Again, it is not yet too late to build a new house if we get at it at once. Then we may pick up perhaps a small flock of some neighbor who is about to make a change of residence. There are often opportunities one may learn of by keeping his eyes open. It never pays to do this, however, unless one feels competent to care for the larger flock. Losses often arise from trying to do a business on small experience.

It is a good plan to lay in a good supply of feed now before the higher prices of the later season come on. I have in mind now a farmer who has already stocked his bins well with such feeds as he does not grow himself, anticipating the day of much higher prices. A few dollars saved on feed counts at the end of the season, and is not to be lightly regarded.

I do not suppose any of us will ever be too careful about making our houses as clean as possible. That is advice which has been given so many times that we often pass it by lightly; and yet, there is no more important point in connection with poultry keeping. Hens are by nature very neat creatures. They like to be clean in feather and limb. They do their best at it under all circumstances. We may do much to aid them if we will.

And while we are doing that, what else are we doing? We are making it sure that our birds will lay more eggs and so place more money in our pockets. Cleanliness, therefore, has a real money value. Better housing, better feed, better care and better returns from the eggs and other poultry products sold. E. L. Vincent.

Try The Sure Hatch at My Risk

My Incubator is the Ever-Ready, Ever-Dependable Chick Producer—more reliable than the setting hen, and more profitable. No experience needed. Automatic in operation; requires little attention. Never fails even in freezing weather.

I'm Selling it for Less Than Inferior Machines Cost—at My Direct-to-You Factory Price

I'll send it to you, freight paid, on 60 days' free trial. Your money back if not satisfied. Get started early to make your profits big. Write today for free illustrated catalog and low prices.

My U. S. Poultry Book is not a catalog, but a book of important facts. Proven by practical demonstration. It isn't for sale at any price. I'm giving it away free to every purchaser of a Sure Hatch Incubator.

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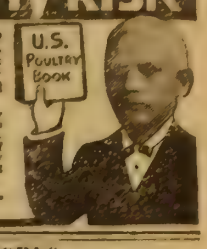


GREEN FEED NECESSARY FOR CHICKENS IN WINTER.

The importance of supplying plenty of green feed to poultry during the late fall and winter is urged by J. G. Halpin, of the College of Agriculture of the University of Wisconsin. Nearly all of the common vegetables are relished by fowls and they should be given rations of beets, cabbage and rutabagas at regular intervals. Mr. Halpin says that silage may be used, provided that only a small quality is fed at first until the hens become thoroughly accustomed to it. Onions should never be included in the ration for laying hens, despite the medical qualities of this vegetable, because fowls fed on them will produce eggs with an undesirable flavor.

When the poultry breeder cannot easily obtain vegetables to feed his flock, alfalfa or clover hay may be substituted, but it should not be thrown into the pen loose, as in this way much of it will be wasted. Packed in a wire pocket or trough, the chickens will eat all of the alfalfa leaves and this system is preferable in that it saves waste and provides the flock with exercise. When feeding clover chaff or chopped clover hay, Mr. Halpin suggests that the poultryman should occasionally fill a pail about three-fourths full of the fine leaves, add boiling water, cover, and allow it to steep for a couple of hours. After mixing it with ground feed, such as bran and corn meal, it can be fed as a crumbly mash with fine results.

POINTERS

—Buff Leghorns are offered for sale by K. Brunia, Pella, Iowa. He will be pleased to furnish descriptions and prices to prospective buyers.

—Mrs. W. S. Huber, Tipton, Iowa, can supply Homestead readers with White Plymouth Rocks from select stock. Her advertisement appears on page 22.

—G. H. Blake, Oelwein, Iowa, advertises White Plymouth Rocks on page 22 and offers cockerels for sale at unusually low price. Write him before buying.

—On page 22 of The Homestead appears the advertisement of Miss Julia Driscoll, Plainfield, Iowa, offering Silver Laced Wyandotte cockerels from a good laying strain for sale.

—Jesse D. Howarth, R. 2, West Grove, Iowa, advertises Single Comb Rhode Island Red cockerels and White Holland turkey toms on this page. The prices named are remarkably low, but are good only for the month of November.

—C. & C. T. Van Lint, Pella, Iowa, announce on page 22 that they have fifty Rouen ducks for sale. These ducks were first and second prize winners at the late Iowa State Fair. They have also for sale Silver Campine cockerels from the best imported stock at $1.50 each.

—Carl Ehlers, R. 3, Gretna, Neb., advertises Rose Comb White Wyandotte cockerels at low prices on page 22. Mr. Ehlers' flock won numerous prizes at the Nebraska State Fair this year. At the price named these birds will not remain long unsold. Buyers should forward their orders immediately.

—In an advertisement on this page L. G. Housholder announces that he is prepared to score poultry at reasonable prices. There is no doubt that the scoring of a flock of poultry is to advantage of the owner, as well as to his patrons. Mr. Housholder has had thirty years' experience, does his work in a satisfactory manner and at a reasonable cost. Address inquiries to L. G. Housholder, Bonaparte, Iowa.

—Theodore Martin, Bellevue, Iowa, is advertising Barred Rock cockerels at very reasonable prices on page 22. Mr. Martin states that they will make twelve to fourteen-pound cocks at maturity, are nicely marked and are worth more money than the price he is asking. Mr. Martin has been advertising in The Homestead for many years and we have yet to hear of a single complaint from any of his customers. You can feel safe in sending him your order and rest assured that you will get your money's worth. When writing kindly mention The Homestead.

LEGHORNS.

ROSE COMB BROWN LEGHORN COCKERELS
At the Pike Timber Stock Farm
DAVENPORT & MACK, BELMOND, IOWA

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels; also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Fischel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

250 S. C. BROWN LEGHORN cockerels, hens and pullets, 75c and $1 each. Sires score to 93½. Winners for 10 years. Buff Cochin Bantams, 75 cents. Address Mrs. Will Michael, Selma, Iowa.

SINGLE COMB BROWN LEGHORN COCKERELS $1 each while they last. Address E. A. Bergsten, Sperry, Iowa.

ROSE COMB BROWN LEGHORN COCKERELS 75 CENTS each until Dec. 1. Mrs. John L. Roberts, Chapin, Ia.

SINGLE Comb White Leghorns, 250 ckls. at bargain prices, guaranteed to please. $1 and up. circular and show record free. W. F. Wallace, Diagonal, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels, $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley Selma, Ia.

S. C. W. Leghorns, Young's strain, unscored cockerels, $1; scored, $2.50 and up; pullets, $1 each. Address Mrs. Wilson McIntyre, Red Oak, Iowa.

BUFF LEGHORNS WITH DESCRIPTION
K. BRUNIA - - - - - PELLA, IOWA

FOR SALE S. C. W. Leghorn cockerels, 90c each. Alfalfa seed, $8.00 per bushel. Address A. Jacobson, Madrid, Iowa.

LEGHORNS---Rose and Single Comb, Buff, White and Brown, $1.00 each. Doz. $10.00. Progressive Poultry Farm, Hampton, Iowa.

FOR SALE---CHOICE LOT OF S. C. WHITE LEGHORN cockerels, 6 for $5. Mrs. S. J. Philson, Harlan, Ia.

LANGSHANS.

BLACK LANGSHAN COCKERELS at a bargain if taken this mo. from penned stock. Bruce Cavitt, Mt. Sterling, Ia.

FANCY big-boned, greenish, glossy, black eyed Langshans, $5 each. Good breeders, three for $5, cockerels, pullets. H. Osterfoss, Hedrick, Iowa.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY
Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

Single Comb Rhode Island Red Cockerels for sale at $1.00 and $1.50 each; also White Holland toms of good size and pure white at $3.50 each during November. Jesse D. Howarth, Route 2, West Grove, Iowa.

CHOICE Pure-bred Reds (either comb) yearling hens, ckls., pullets, price $1 each. Indian Runner ducks $1.50. Mrs. Laun, Riverdale Farm, Floyd, Ia.

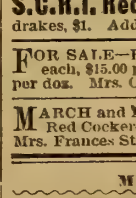
S.C.R.I. Red Cockerels from $1, $1.50 and up; Fawn Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

FOR SALE—R. C. R. I. Red hens, Pullets $1.50 each, $15.00 per doz. Cockerels $2.00 each, $18.00 per doz. Mrs. Charles Belz, Conrad, Iowa.

MARCH and April hatched S. C. Rhode Island Red Cockerels, extra good color. Prices right. Mrs. Frances Strong, Oakland, Iowa.

MISCELLANEOUS.

55 BREEDS
FINE PURE BRED POULTRY,



Ducks, Geese, Turkeys, Collie Dogs. A lifetime experience with poultry. Send 4c for my big book and price list. Write us for anything in the poultry line—we are headquarters.
H. H. HINIKER,
Box 32 Mankato, Minn.

Smith's Big Removal Sale

AS I am going to move to Minnesota December 1, will sell my entire flock of Bronze turkeys, and S. L. Wyandottes, at big reduction if taken at once. These are all high-class, well-marked birds.
J. D. SMITH - - MONTEZUMA, IOWA

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. E. & J. W. Trettin, Grafton, Iowa

PRIVATE scoring done at reasonable rates. 30 years' experience. Also breed Partridge Rocks, R. C. White Leghorns and Rhode Island Reds. Stock for sale. L. G. Housholder, Bonaparte, Ia.

BARGAINS in all varieties Wyandottes, Orpingtons, Minorcas, Reds, Rocks, ducks, geese, turkeys. Progressive Poultry Farm, Bx. 10, Hampton, Ia.

Galloway's 1914 Advance Announcement

Extraordinary

Listen! I personally want you to read this announcement.

I have something to tell you.

Real News. News that means a lot to you personally and all of your neighbors.

Why?

Simply because there is no man in the United States today who tills the soil whether he is a land owner or a renter who can help but be personally and vitally interested in this announcement.

It tells the real facts about the great **Galloway Direct from Factory Manufacturing Business.**

Yes, sir, I want you to read every word of this announcement so you will know better what we have done here at Waterloo for the **Farmers of America** and why we have done it.

You have no doubt read about how this business started. About how I left the farm twelve years ago and started to work for an implement dealer; then later on went out on the road as a salesman and found out by this experience the real cost of goods, the cost of selling and the real trade conditions and then later on started in with a small factory selling goods direct to the farm. I have been adding department after department, line after line, until today we have the ***Largest Institution*** of **Its Kind** in the **World** that makes its own goods and sells them direct from factory to farm.

A little over seven years ago this business started having only a comparatively small trade. Today we have wound up the most wonderful year in our history with a business of over twelve times that of six years ago.

What has brought about this tremendous volume of sales of **Galloway Made Machines?**

I will give you the answer briefly and in a few words.

Just three things.

HIGH QUALITY GOODS,
LOWEST POSSIBLE PRICES AND
A TREMENDOUS VOLUME.

No business could expand like this business has without these three things.

It's a fact that we are turning out goods here in our big factories at Waterloo such as gasoline engines, manure spreaders and cream separators and selling them direct to the consumer at less money than the average dealer can buy similar goods at in solid car-load lots for spot cash.

It's a fact that on account of our tremendous volume we are selling much of our merchandise and machinery to the consumer for less money than some factories can turn them out at first shop cost.

So great has been the demand for Galloway goods that many of our customers asked us to install other lines. The result is that we put in a large and complete line of farm machinery, also a big line of general merchandise, such as clothing, furniture, carpets, rugs, stoves, watches, dishes, etc., on which we can save you 30 to 50 per cent.

Better Goods at Lower Prices

That has always been my policy. On the goods we sell I challenge all competition both in quality and price. No one can meet us on quality and price today.

Why?

Because of our economical operating expense.

Because of our tremendous factory volume.

All Galloway machines are made in enormous quantities with all operations standardized. We have the finest automatic machinery, the best labor conditions. Everything that goes to reducing cost of production. Then on my **Direct** from **Factory** to **Farm Plan** we sell every Galloway made machine direct to you with only one small profit added to the actual cost of materials and labor.

That's what I mean when I say "Galloway Divides the Melon With His Farmer Friends and Customers."

The share that ordinarily goes into the pockets of a lot of middlemen you can keep and put right back in your own pocket.

If every man who reads this advertisement really knew the actual truth and facts about the wholesale prices we give they would buy only Galloway Merchandise and Galloway Made Machines.

I just want you to study carefully the picture at the top of this page.

They are the fellows who do things around the Galloway Plant.

You know the old saying still holds good, **"Two heads are better than one."**

In the Galloway business the men you see at the top of this page work together like so many teams of horses. They get together with me, take out their pencils and we figure out what we are going to do for the coming year. **Then spread the news to everybody.**

Our goods, our prices and the great satisfied public that has bought from us all over the United States, Canada and thirty-two different foreign countries do the rest.

Here Is What We Are Going To Do For 1914

Make still more goods, make a still lower price and this means we will do a bigger business than ever before in our history.

Our new low prices are based on a larger volume than ever before. We will have to make and sell three machines where we formerly made and sold one on account of the still lower price that we are making today.

When we passed the million dollar mark we thought we did something big, but we have now passed the two million dollar mark and on the way to bigger and better things for 1914.

My catalogs which I will gladly send you any time on request will quote you the lowest prices that we have ever made to the **Buying Public of America** and never before has the quality of our goods been better because our manufacturing facilities have been better. We have refined and perfected all the little details and best of all are now in position to give you quicker and better service in the way of prompt shipments than ever before.

Every man at the head of every department in the Galloway institution is a live one. He is wide awake and knows the policy of this institution from A to Z. If there is a customer who is dissatisfied or who has had any trouble at any time with a purchase made from us, it is because he has not given us a chance to make it good. We will not knowingly have a dissatisfied customer.

Here Is Our Policy

No matter what you buy from us, we want you to try it, test it, compare it with anything else in its class and if for any reason whatever the article does not suit you in every way after you have given it a fair trial, we agree to take it back, pay freight both ways and give you back your money.

We leave it up to you to decide whether or not Galloway goods have merit and whether or not they are what you want.

Remember every article we sell is guaranteed and backed by a $25,000 legal bond assuring you the return of your money any time if the goods do not please you.

This bond is not necessary as far as we are concerned, but we simply put it up so that even the most skeptical cannot help but feel they are taking no chance whatever in buying Galloway goods.

I can save you money on every article we sell—real money—money that you can put back in your pocket—money that will buy you pleasures—money that will pay your rent, your mortgage or help you to make a bigger profit at the end of the year.

There are two ways of making money on the farm.

One is Selling Right—the Other is Buying Right.

You know and I know that whenever you sell grain, corn or live stock you always try to get the best possible price. You are looking for the top notch market figure.

Why not BUY the same way?

If you can save $50, $30, $20 or even $10 on every $100 purchase you make that is the thing to do, because this saving is just as good in buying as the extra price is in selling. Because money saved in buying means just as much as money earned in selling.

Yes, sir, I can save every farmer of this country hundreds of dollars on his annual purchases and shrewd business farmers everywhere are taking advantage of my liberal offers and many of them making big money every year in their purchases.

Over 135,000 Satisfied Galloway Customers

That is the real proof.

The men who have bought and used and still continue to buy and use **Galloway Made Machines** and every year make more friends for the **Galloway Way** are the real proof that my **Direct** from **Factory Plan** is a **Success.**

Now you know my policy.

I know you are going to need something listed in the Big Galloway General Merchandise Book inside the next few weeks.

Send for my catalogs. Get my big general Merchandise 120-page book for anything you want in clothing, furniture, stoves, household supplies, watches, etc.

Write me for my gasoline engine catalog, manure spreader catalog or cream separator catalog if you are interested in buying any of these three money-making machines.

We will do our best not only to save you money on the first cost alone, but to help you make your machines give you the best possible service.

Come to Waterloo and See Us

Visit our offices and factories if you can and see for yourself how Galloway machines are made.

The Galloway Plant is something different, something original, highly educational and of personal and vital interest to you and every farmer in America who wants to know the facts about why and how Galloway makes the goods, makes the price and still maintains the very highest quality.

If every farmer in the United States really knew the truth and the facts about the values I give, in spite of our already tremendous volume, we would have to increase our factory capacity at least 10 to 15 times in order to supply the demand.

Now, I have given you the latest news in a nutshell about our Prices, Products and Plans for 1914.

Let's make this the starting point in our getting acquainted.

Don't believe all your dealers or our competitors may say about us. Find out for yourself.

The first step in getting acquainted is writing for my catalogs, which are my only salesmen, the best and cheapest salesmen on earth. A one-cent postal will bring them. Write me today.

Your friend at Waterloo,

Wm. Galloway, Pres., WILLIAM GALLOWAY COMPANY

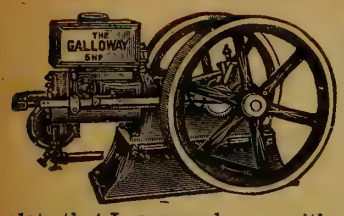
17-D Galloway Station - - - - - - - - - WATERLOO, IOWA

The Largest Manufacturing Concern in the World Selling Its Entire Output Direct From Factory to Farm

Yes, sir, my big factories, my big organization, are all working at top-notch pressure—almost at the bursting point—turning out Galloway-Made Machines to make possible my 1914 plan of more goods and lower prices. My big 1914 campaign is right at red heat. We are going to do bigger and better things for the Farmers of America than ever before. My famous slogan—"Galloway Divides the Melon with His Farmer Friends"—is going to be heard by more people in every section of the country and thousands are going to benefit by my new campaign. It's going to be chuck full of surprises—surprises in the way of better-than-ever machines—still lower prices and special offers never before made you by any manufacturer. You may have been holding back—hesitating for some reason or other, about trying my direct-from-factory plan. You can't afford to hesitate any longer. It means money in your pocket, more money than you may realize, to get acquainted with my direct way of doing business.

It means right at the start that you save all jobbers', dealers' and agents' profits, salesmen's expenses, bad dealer debts and many other necessary charges that you have to pay when you buy on that round-about method. My plan not only enables you to save money on gasoline engines, cream separators, manure spreaders, and a complete line of farm machinery—but it includes today many articles for the farm, home and family. Such lines as clothing, furniture, stoves, watches, etc., on which I can save you from 20 to 50 per cent. Just write me today. Get my catalog. That's the first step toward getting better acquainted. Just mail me a postal for my big complete catalog.

I'll Save You $50.00 to $ 300.00 on Gasoline Engines



That's a lot of money—$50 to $300—to save you on the price of one of my engines, but I'll do it, **positively.** As proof of my claim—I will sell you my 5 h. p. stationary engine complete ready to start—at only $99.50. Dealers are asking from $225 to $300 for inferior engines of same capacity. Prices on my other styles and sizes to match. Remember, my line of engines is especially designed for farm work. They are built in sizes of 1¾ h. p. up to 15 h. p. and can be had mounted on hand or horse portable trucks—equipped with wood sawing attachment, or stationary. Then my line is so complete that I can supply you with many of the machines such as grinders, shellers, washing machines, cream separators, etc.—which you may want for running by power. I will quote you special low combination prices on such outfits. Prices that you can't equal anywhere else. All Galloway engines are sold on 30 days' **Free Trial** backed by a strong 5 year warranty on materials and $25,000 legal bond, and best of all, my engines have stood the acid test of actual use on the farms of over 30,000 Galloway engine owners. You simply can't take any risk on my plan. Now, I am making some new, low, 1914 advance prices on my complete engine line. You will simply be amazed at my low prices and the high quality of my engines. Let me give you all the facts. Just write me for my big 60-page illustrated engine catalog. A one cent postal will fetch it right to your mail box.

Free Service Department. My force of engine experts are at your command and absolutely without charge. They will tell you how to select pulleys, line shafting and the engine that is best suited for your work. How to test and judge an engine,—how to use your engine to best advantage, how to fit up a power house, etc. This is service that costs you nothing but will save you many dollars. Get my catalog. Get acquainted with my direct-from-factory, money saving plan.

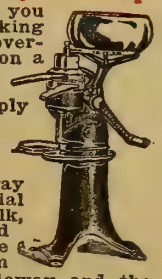
WRITE FOR MY MONEY SAVING CATALOGS

I want one or all of my catalogs in your home. Every farm home should have a set of Galloway Bargain Catalogs, so in case you want something in a hurry you can just refer to my bargain books and save time and money in ordering. I'm selling direct every article of merchandise listed in my catalogs. Yes, sir, right direct to your farm at lowest possible prices—money-saving prices. I cut off the useless profits and unnecessary expenses you have to pay when you buy through middlemen—and give you a better guaranteed and better quality article. Every article I sell—whether gasoline engines, manure spreaders, cream separators, washing machines, clothing, furniture or other merchandise, I give you a positive money-back free-trial privilege. And I also make you more liberal terms than you can get from your dealer or agents or any catalog house. The first step in your getting acquainted with my direct-from-factory plan of selling is getting my catalogs. My catalogs are my only salesmen and they cost only about one-third the price of a salesman's ten-cent cigar to put them in your mail box. They are the cheapest and best salesmen on earth. They are in over a million farm homes today. You should have them in your home, for they will save you big money on your next year's purchases. Write for them today.

MANURE SPREADER PRICES SLASHED $64.75 up

My advance 1914 prices are cut clear to the bone. I am out after a bigger spreader business than ever before in the history of this business and I am making prices that will get it. Yes, sir, I've cut my prices but not the quality of my famous Galloway line of spreaders. They are better than ever before—and my line is now complete ith nine different styles and sizes. My new low-down, semi-underslung spreader is the latest, the very best type of low-down spreader on the market. Two horse pull—large capacity, light draft—with all the old, tried out, and proven Galloway features of construction. Not an experiment but a wonderful success. Now, just compare my prices. Only $64.75 for my complete OA-50 bushel spreader—or $76.50 for my IA-60 bushel spreader. My famous No. 5-70 bushel spreader with all steel, detachable trucks sells for only $79.50. The greatest spreader value in history. My attachment spreaders, the only successful wagon box spreaders made, sell for only $39.50 and up. I know my spreaders will give you the best satisfaction. Over 40,000 in use today. All sold on 30 days' trial on most liberal terms ever made. Get my new spreader catalog—just out—and my famous "Streak of Gold" Book—Free. Write me today for my new, low prices and catalogs.

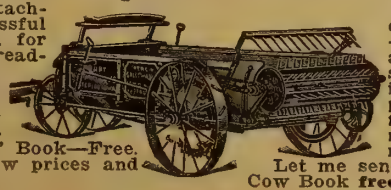
THE NEW GALLOWAY SANITARY SEPARATOR $42.50 up



If you have more than three cows you should have this separator and I'm making my offer so easy you can't afford to overlook it. I save you from $35 to $50 on a cream separator and give you a better machine than you can get anywhere else. My factory-to-farm price simply can't be beat, that's all.

I'm not going to take space here to make a lot of claims. I'm simply going to make a fair, square offer that PROVES the quality of the new Galloway Sanitary. You get my separator on trial and make this test: Take a pan of milk, put half in an ordinary separator and half in the Galloway. When both have done their work put the skim milk from the ordinary separator into the Galloway and the skim milk from the Galloway into the ordinary separator. **Then watch the cream spouts.**

This test will prove to you that the Galloway gets you more cream per gallon than any other separator.



Disc type bowl, the best type ever designed. Oval milk tank, oval frame—no crevices for milk to gather in and putrify. The most sanitary cream separator ever made. Gearing all set in single gearing case same as high priced automobiles. Oil-bath, splash feed lubricating system. The easiest machine to clean and the easiest and most economical to operate.

Let me send you a copy of my Galloway Dairy Cow Book **free.** Most complete practical manual of dairying ever published. No matter how much money you're making you can make more after reading this book. Regular price, $1.25. I send it free. Write me today for my new catalog and low prices.

GET MY NEW GENERAL MERCHANDISE CATALOG TODAY

It's just off the press. The latest prices, the latest styles of everything. Chuck full of bargains for your home. Money saving prices on clothing, furniture, rugs, carpets, watches, stoves, machinery—in fact, the complete Galloway Line of Merchandise is shown in my big General Merchandise book. I want to put this book of bargains in your home—right now. Just write me a postal or letter and I will mail you a copy right direct to your mail box, postage prepaid.

Save From 20 to 50 Per Cent On Everything You Buy

You'll be convinced when you look through my Big Book of Bargains that Galloway does just as he says he will do—"divides the melon with you." Try my plan once—and you will be a Galloway booster always. You will see that my plan pays best—You'll be tired of "dividing the melon" with the big trusts and middlemen and paying four or five unnecessary profits on the things you buy. I have a copy of my catalog for you. I want to put one in every farm home in the country—so just write for a free copy today. Do it now.

Get My Special Co-operative Profit Sharing Offer

I've got a brand new offer that will help you get a gasoline engine, cream separator or manure spreader partly or entirely without cost to you in the end. I will explain my offer to you in detail when you write me for my catalogs. You can accept it or not as you please. If you do accept it, you will get an added benefit that no other manufacturer ever before made you. It's just another way I have worked out to help the men on the farm benefit by buying right direct from me at my low, direct-from-factory, money-saving prices.

Now, write me for my catalogs—any or all the catalogs you are interested in and get my new low prices and special offer. Don't wait. Write me this time without fail. You want to know what Galloway has to offer you. My catalogs will show you and you don't put yourself under any obligation whatever. Send for them today. Do it before you lay this paper down. Address,

Wm. Galloway, President, WILLIAM GALLOWAY COMPANY, 17-D Galloway Sta. WATERLOO, IOWA

Do Your Own Butchering This Fall—It Will Pay

Good, pure, well-seasoned country sausage—city people are just crazy to get more of it. Instead of shipping all your hogs on the hoof, do your own butchering and get retail prices for the meat. Sausage is easy to make, and there is no danger of spoiling when you use an

ENTERPRISE

Sausage Stuffer and Lard Press

Cylinder Bored True

with the patented corrugated spout. Makes sausage that keeps because it stuffs casings free from air bubbles—the only machine that fills casings perfectly. You will find it a great convenience to own an Enterprise Meat AND Food Chopper—a machine especially made for chopping meat. Chopping is done by knives—an exclusive Enterprise device. **Insist on your dealer showing you these machines.** Their advantages are so great you cannot afford to be put off with substitutes. Say "Enterprise," and insist upon it.

2, 4, 6, and 8 quarts.
4-qt., Japanned, $3.50.
Tinned and Japanned.

All sizes, hand, steam and electric power.
No. 5, Family Size, $1.75.
No. 10, Large Size, $2.60.
No. 22, Farm Size, $4.00.

Invest 4c in a 200-recipe book for your wife. Handsomely illustrated and full of splendid suggestions for the table and kitchen. We have just printed a new edition of this book, "The Enterprising Housekeeper."

THE ENTERPRISE MFG. CO. OF PA.
Dept. 83, Philadelphia, Pa.

When wanting Fruit or Wine Presses, Cherry or Raisin Seeders, Coffee Mills, Bone Mills, etc., it is worth while to see that they are stamped Enterprise.

No Bolts to Loosen--No Stove Putty to Crumble.

The Arcadian Malleable Range is built of tough, malleable iron and charcoal iron plates. Its joints are riveted together instead of being merely bolted together, and the seams are not stuffed with stove putty like ordinary so-called steel and cast iron ranges.

The Arcadian is built exactly like a locomotive boiler—no bolts to loosen, no stove putty to crumble and let in false drafts to fan the fire when you want to shut it off, or deaden the fire when you want it to burn. *The ARCADIAN cuts down your fuel bill at least a third.* No blackening needed—just wipe off with oily rag—stays a perfect baker because it stays airtight for a lifetime—has oven thermometer and all work-saving features.

Arcadian Malleable Range Co. Dept. 39 Milwaukee, Wis.

ARCADIAN
Malleable Non-breakable
RANGE

FREE BOOK—Write for interesting free booklet telling inside facts about range building. Shows how to pick out the weak points in poor ranges. The facts in this free book will save you money. Write for it today.

Shetland Pony Given Away

Here is your chance to get a fine Shetland Pony. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a pony. Mail it to me with your name and address and I will tell you all about the great contest in which you can win a beautiful pony.

1500 VOTES FREE

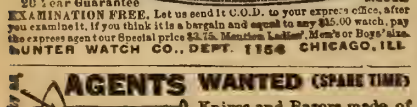
I will also send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

Sec'y Popular Co., 152 Popular Building Des Moines, Iowa

This Beautiful 20 Year Watch $3.75

Elegantly engraved THIN MODEL, GOLD FINISHED double Hunting case, Jewel American lever movement, stem wind and stem set. 20 year guarantee sent with each watch. Long gold finished chain for Ladies, fob or vest chain for Gents Free.

$3.75



THIN MODEL

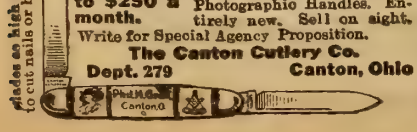
20 Year Guarantee

EXAMINATION FREE. Let us send it C.O.D. to your express office, after you examine it, if you think it is a bargain and equal to any $25.00 watch, pay the express agent our Special price $3.75. Mention Ladies', Men's or Boys' size.

HUNTER WATCH CO., DEPT. 1156 CHICAGO, ILL.

Old Masters' Violin **FREE** FINE TONE

We will give you this superb violin absolutely FREE. Wonderful new system. We will teach you by note in your home. Violinists make big money. We guarantee to make you a player or no charge. Complete outfit FREE. Write to SLINGERLAND'S School of Music, Dept. 44, Auditorium Building, Chicago, Ill.



AGENTS WANTED (SPARE TIME)

Knives and Razors made of Car-Van (Old Damascus) steel Scientifically Tempered, Photographic Handles. Entirely new. Sell on sight.

EARN $75. to $250 a month.

Write for Special Agency Proposition.

The Canton Cutlery Co.
Dept. 279 Canton, Ohio

EARN WHILE YOU LEARN

BE A WATCHMAKER

They're in demand now—big pay—we get positions for our graduates.

Take our course—it's interesting, thorough and teaches every detail of watchmaking and jewelry repairing.

FREE BOOK Send for our book "The Artisan." It explains everything thoroughly. Address

STONE'S SCHOOL OF WATCHMAKING,
910 Globe Building, St. Paul, Minnesota

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

Several letters have been received, asking for information about starting a club. One letter especially appeals to me. In substance it says:

In our neighborhood there has never been a farm women's club. We would like to organize, but do not know how to go about it. I have often wished there was a club, where we might have a social visit with neighbors and keep out of the mental rut. One gets into the habit of staying at home, and thus the rut gets deeper and deeper. Therefore I hailed with delight the motion to start a club and come to you for advice.

It is a privilege to be of some help, and especially to one of our sister farm women, with a houseful of babies to care for. Mothers spend the best years of their lives rearing their families, and they, of all people, need the stimulus of new ideas, and the broader outlook that comes with associating with other people.

As the women of this neighborhood are wholly inexperienced in organizing a club, the better way would be to start informally. Invite the women of your neighborhood to your house, on a certain afternoon, ask them to bring their sewing, preferably some light work. Serve light refreshments; nothing rests a weary housekeeper so much as the refreshments that she had no part in preparing.

Before separating decide to meet at some other home the next week, or the next month, the time depending on the wishes of the majority. At the next meeting choose a president, either by acclamation or ballot. Also a secretary-treasurer, whose duty it is to read the report of the last meeting, and take care of the money, when the club arrives at the dignity of a treasury. After the report of the previous meeting, the secretary should call the roll, in answer to which the members should respond with something which will be a benefit to the others. It may be an article from a magazine, or some particular way of doing things, which she has learned through experience. This may be extended to many subjects, and is sure to arouse enthusiasm.

When well started the club may assume a more businesslike form. It would be well to get a book on parliamentary law, and study it at the meetings. Little by little the club will advance as a whole, and be all the better because of the informal start.

From just such a beginning our home club in a dozen years, has a membership of fifty, whose respective dues are fifty cents a year. We have monthly meetings, and get out a year book, which contains a printed program for each meeting. There is an annual banquet, at which each member is privileged to bring one guest, and a picnic, to which the whole family is invited. The picnic dinner is served cafeteria style, and we surely do have good times.

Dear friends, if you are tired of the old way just start a club. You will be surprised at the different views it will give you, and how soon you will forget to be frightened at the sound of your own voice.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

The day becomes more solemn and serene
When noon is past—there is a harmony
In autumn, and a luster in the sky,
Which through the summer is not seen nor heard.

Sow an act and you reap a habit;
Sow a habit and you reap a character;
Sow a character and you reap a destiny.

If you have gracious words to say,
Oh, give them to our hearts today,
But if your words will cause us sorrow,
Pray keep them till the last tomorrow.

I am bigger than anything that can happen to me. All these things, sorrow, misfortune and suffering, are outside my door. I am in the house and I have the key.

FOR THE COOK.

Meats That Are Left Over.—Grind meat that has been left over from a previous meal; mutton, veal, beef or pork; butter a baking dish, sprinkle with bread or cracker crumbs; alternate with a layer of meat and a layer of crumbs, until all are used. Moisten with broth or gravy from the meat, or milk. Dot with butter, and bake. Mashed potatoes, instead of crumbs, gives a substantial dish, which provides a large part of the meal. Bits of left-over ham, finely chopped, and added to pancakes, omelette, warmed over potatoes, either creamed or fried, disposes of the meat and adds a fine flavor.

Stale Bread.—A stale loaf of bread, even if quite dry can be used, by cutting the top off and scooping out the inside of the loaf, and filling the shell with meat prepared as for the above. Secure the top with toothpicks, dampen, and heat in a quick oven. Serve with a gravy, or cream sauce.

Left Over Fruits.—Butter a baking dish and place a layer of bread crumbs, or bread and butter in the bottom. A layer of fruit (one or the remnant of several kinds) more crumbs, and continue until all are used, having the top layer of crumbs, which should be well buttered and sugared. Pour fruit juices over all, and bake, or steam. You will be surprised how toothsome it is, and the cost is little or nothing.

Pudding From Left Overs.—A pint of flour, two teaspoons baking powder, one teaspoon shortening; mix rather stiff with milk or water. Butter glasses or cups, and place a teaspoonful of the dough in the bottom, then an equal amount of fruit, bits of jelly or preserved fruit. Continue until all are used and place in a steamer twenty minutes. Serve with liquid sauce or cream and sugar.

Left Over Cereals.—Any kind of cereals can be used in puddings in the place of bread, or when cold may be dipped into bread crumbs or flour and fried.

For the Soup Kettle.—Place in a kettle anything left over from any meal; add water and simmer slowly for some time, adding enough beef extract to season. Strain and add salt and pepper, and you have a splendid soup, which may be eaten with crackers, or bits of broken bread toasted. Even soup bones cost money, and soup made from left overs is pure gain.

Last End of the Garden.—One gallon chopped cabbage, one-half gallon green tomatoes, one pint lima beans, boiled, one quart small onions, one gallon string beans cut up and boiled, one hundred very small cucumbers, one dozen sweet peppers, one and one-half ounces black pepper, whole grains, one quart cider vinegar, one-half pound ground mustard, one pint salt. Scald vinegar; stir the mustard in cold vinegar until the consistency of cream, then add to the hot vinegar. Add sugar, salt, pepper and the vegetables well mixed and cook one hour. Serve with meat.

AMONG OURSELVES.

We especially welcome inquiries and suggestions relative to school matters. E. L. Wulff, Iowa, desires a new plan for a social. In a letter which has just reached my desk, he says:

We are to give a program at our school soon, and wish to serve refreshments. We have given so many box socials and pie socials that we desire a change. I have come to "Among Ourselves" for suggestions. The proceeds are to go to the school.

Let's have a school talk in the near future. Suggestions for socials, plans to make the schoolroom a more comfortable place for our children to stay, the books suitable for a school library, and plans for Christmas entertainments. No school is too small to give some kind of program relative to the day. The country schools, many of them, have only a very small attendance. This, however, will not discourage the hustling, up-to-date teacher. Letters are desired, not only from interested parents, but from teachers and pupils as well. Do not hesitate; there is small danger of sending too many letters on this, one of the most important of all subjects.

As a complement to the editorial theme "E. S." gives a talk on a home appliance to lighten labor. It is much gratification to know that the good things of our club enter into many homes:

A year ago last spring I purchased a vacuum cleaner, a "sweeper-vac," that has been very satisfactory. It takes all the dirt out of carpets without beating them, and they can be cleaned on the floor. I was just recovering from a siege in the hospital, so you can, I think, understand the help it was to me when I tell you that I was not able to use a broom. The one I have does not take up ravel-

ings, and large litter, but it is now made with carpet-sweeper attached, and would, I think, be about perfection. I am hoping this will help Mrs. Lowater and others.

Speaking from experience, I sanction every word "E. S." says. And if one is unable to buy a cleaner it is better and cheaper, in the end, to hire some one who owns a cleaner to clean rugs and carpets twice a year. Many paper-hangers and painters keep one for the purpose. Aside from the saving of strength, which is the main consideration, the saving of the floor coverings is money saved in the end. Who else has a strength saver? We would be glad to use a subject of this kind every issue.

After talking about so many practical subjects our members will, I am sure, enjoy hearing our Mrs. Soesbe, who always brings us something outside of the four walls to think about. This valued member gives food for thought that, if applied, will help us over many otherwise dark days this winter:

Every season has its own peculiar advantages. One thing that should reconcile us to the winter is the fact that it gives us the long evenings, with time for our book friends again. One of the most pleasant privileges of the mother is that of reading or telling stories to the little ones, or directing the reading of the older children. Mrs. Lowater gave us some fine suggestions on reading for young people, and I wish to tell you of a few books that I have found to be good to read to small children. As soon as the child asks for a story, we have the opportunity to begin to cultivate his taste for good literature. As a rule, I care very little for fairy stories, unless they teach some good lesson, such as obedience or kindness. Biography I think very good, and from the lives of our great men we can teach many lessons; also many facts which form a connecting link with history. "Fifty Famous Stories Retold," "Stories of Great Americans," "Discoverers and Explorers," "Life of Lincoln" and "The Century Book of Great Americans" are among the books of this character. Children are also interested in other children, and you can teach geography while telling them about children of other lands. One especially interesting book is "Children of the Arctic," by the "Snow Baby" and her mother. The "Snow Baby" is Marie Peary, who tells of her trip to Arctic regions. The story of "Hiawatha's Childhood" will interest your children in the Indian children and also give them an acquaintance with one of our American classics. Another class of stories that are very good are the animal stories such as we find in Kipling's "Jungle Book" and the Thompson-Seton books. As the stories are rather long you may have to tell them at first, and later they understand them when read. Sometimes our children surprise us by enjoying things we would suppose too old for them. Our six-year-old boy listened with much interest to "The Man Without a Country" by Hale. That best of all books, the Bible, must not be neglected. There are many good books of Bible stories. I have found the "Beginner's Stories" in our graded Sunday-school lessons to be very good. Our children should be taught to love poetry too. I agree with Mrs. Lowater that children like poetry of action best. I hope other mothers will join in this discussion, and tell us what books their children enjoy. I am sure we all wish to make our meetings helpful this winter.

We thank Mrs. Soesbe again and again for giving of her time, her experience and her splendid mentality. If you do not file the copies do, I beg of you, preserve this one. Sure as you live, mothers, you will sooner or later need this very information.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 6. Rom. 14:7-21. Nov. 9. 1913.

ABSTINENCE FOR THE SAKE OF OTHERS.

As in a mirror, in the Epistle to the Romans we see a faithful reflection of one apostolic church. The sight is disappointing. Where is the unity of the spirit? The church is rent. The converts from Judaism, taught from childhood to consider the prohibitions of the ceremonial law as of divine origin, deem them still obligatory. They observe them with scrupulosity. They look upon those who do not obey them as no Christians. They are censorious. On the other hand, the Gentile converts, never having been in bondage to the ceremonial law, knowing nothing of its arbitrary distinctions as to days, weeks, etc., were inclined to resent any attempt to rivet the Mosaic ritual upon them, and to look with contempt upon their brethren, who wore these fetters so complacently. Doctrinally, the purpose of the Epistle to the Romans is to show that Christianity is the legitimate fruitage of Judaism; that there is as little room for strife between Christianity and Judaism as between the fruit and the blossom. It is the blossom's destiny to fade and fall, that the fruit may come to perfection. A fight for Judaism is a fight for a blossom. Practically, Paul's purpose in writing is to outline those principles which will most surely conduce to peace. This is the first, and as yet unsurpassed, essay in Irenical Theology. Paul unequivocably asserts that what might be called the liberal party is in the right. He enrolls himself with it when he says, "We, then, that are strong." But he proceeds to give certain maxims adapted to immediate use. First, as the tenets of the Judaic-Christian faction relate to matters comparatively indifferent. They are to be received with cordial fellowship. Again, the censorious disposition is to be steadily repressed. There is only one Judge of the conscience. But if anybody is bent on judging, let him turn his judicial spirit upon himself and see that he does not grieve his brother by a selfish use of his liberty of conscience. It is possible in this way to cause the apostasy of a novice in religion, and thus undo the work of God in his regeneration. If one believes himself free in these indifferent matters, let him keep it to himself. Parading his advanced opinions may injure his brother. The use of liberty is right, but there is a manner of using it which brings condemnation.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 56, Box 21, Philo, Illinois.

A TRUE STORY.

(First Prize.)

It was a fine autumn day, and the sun was just going down behind the trees. My dog and I were walking along the road, going after the cows. There were trees along the side of the road, and the birds were flying from one tree to another. Then I heard a shrill cry in the woods, which sounded like a wild animal that was frightened. My dog ran as fast as he could to where the cry was heard. Pretty soon a rabbit ran out of the bushes as fast as he could. I ran to pick him up, and my dog ran all over the woods barking; I think a fox had been after the rabbit, but I did not get a chance to see him. I took the rabbit home and in a half hour he was all right. I turned him loose, and he ran as fast as he could. I hope nothing else frightened him.

—Willie Helmstaden.

About Wheat.

(Second Prize.)

First we plow the ground, then we drag it until it is very fine. Then we sow the wheat and drag it again. Then we roll it. When it rained the wheat came up, and some thistles came up too. We hoed the thistles out. When the wheat got ripe we cut and shocked it, and let it stand until it became dry. After it was dry we hauled it to the barn. Then the threshing machine came and threshed it. My father takes the wheat to the mill, where it is ground. After father brings the flour home mother makes it into bread, and it is ready to eat.

—Elna Prange.

A Little Cake Baker.

(Third Prize.)

I live in the country, and go to the country school. I help my mother do many things, and can bake nice cakes. I have twenty-eight chickens of my own. If I raise them I am going to sell them and buy myself a coat and hat. I help father milk, too. This is a good candy recipe: One cup molasses, one cup sugar, one very small piece of alum, one pinch of soda. Flavor with vanilla.

—Hazel Walker.

Prof. G. F. Warren, of Cornell University, says the soiling system is out of date on New York farms. Ensilage furnishes the best green feed. Pasture, corn, silage, hay and grain make the best feed combination for dairy cows.

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For girls at home who wanted to entertain their set: for young people's church societies: for ladies' aids: for women in frontier towns who wanted to entertain women who "never had a party in their lives": for women in the great cities who had run out of ideas and wanted new ones for luncheons and teas: for the minister's wife who wanted to raise money for the church—for everybody, in fact, young and old, in city and country.

And we have given ideas for these thousands of happy-time occasions without a penny's charge.

It is part of the personal service that has been building for twenty years back of *The Ladies' Home Journal*, and every subscriber or reader is entitled to the service without a penny's cost. An editor with two or three assistants does practically nothing else but travel, buy, and collect the newest ideas for all kinds of good times, and pass them on.

It is worth knowing about. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

A year's subscription to *The Ladies' Home Journal*, by mail, costs $1.50, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

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INDEPENDENCE SQUARE
PHILADELPHIA, PENNSYLVANIA

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These books will tell you. They are free:

"Butter Making on the Farm"
written by a practical dairyman.

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describing up-to-date methods.

The makers of the tastiest butter find that sweet flavor is best brought out by using Worcester Salt. Its fine, even crystals work in smoothly—and dissolve instantly.

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OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6092 Girls' Dress.—A good-looking type of dress for the small girl is here presented. The frock closes at the front and has three-gored skirt. The collar, which is a pretty feature, may be round or square. A sash belt holds the blouse in position. Woolen goods or wash materials may be used.

The pattern 6092, is cut in sizes 6 to 12 years. Medium size requires 4⅛ yards of 27-inch material or 3¼ yards of 36-inch material. Price of pattern ten cents.

6293 Misses' Dress.—One of the most comfortable of the simple summer models is shown in this design. The plain blouse opens in front, the neck is low, the armhole extra large and the sleeve short or long. A three-gore skirt, with either raised or regulation waist-line completes the costume.

The dress pattern 6293 is cut in sizes 14, 16 and 18 years. Medium size requires 4⅛ yards of 36-inch material, with ¾ yards of 24-inch satin for the girdle. Price of pattern ten cents.

6312 Ladies' Dress.—This simple dress opens in front, a little to the left of the center of both blouse and skirt. A smart collar trims the neck which is cut out deep in front to display the front piece guimpe which is worn with the dress. The skirt has three gores and is made with the high waistline.

The dress pattern 6312 is cut in sizes 34 to 42 inches bust measure. Medium size requires 4¾ yards of 36-inch material for the dress and ¾ yard of 36-inch lining and ½ yard of 22-inch net for the yoke. Price of pattern ten cents.

6020 Children's Night Drawers.—Every small girl and boy needs a pair of night drawers and here is an excellent pattern for making such a garment. Canton or outing flannel can be used to make this garment.

The pattern 6020 is cut in sizes 1, 3, 5, 7 and 9 years. Size 7 years requires 3 yards of 36-inch material. Price of pattern ten cents.

6248 Ladies' Waist.—Linen, madras or messaline can be used to make this waist with the collar of contrasting goods. The body and sleeve sections are made in one. The waist is made with a sailor collar.

The pattern 6248 is cut in sizes 34 to 42 inches bust measure. Medium size requires 2¾ yards of 36-inch material with ⅝ yard of 27-inch contrasting material and 2 yards of ribbon. Price of pattern ten cents.

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Here is your chance to get a $285 Harley Davidson Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the two cylinder eight-horsepower Harley Davidson Motorcycle—the best made.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Sec'y Popular Company
400 Popular Bldg. Des Moines, Iowa

MONEY IN PEARS.

The horticultural surprise of the year was the great pear crop. Of course, we have grown pears to some extent before, but we remember no season when there has been such a prolific crop. Every tree, big or little, and of all varieties, made a new record for yield. As a result, we have learned some facts about pear growing of which we were not so sure before, although we may have had some strong opinions. The pear is singularly free from insect injuries, even where the trees are surrounded with apple trees whose fruit was three-fourths destroyed by worms. Pears are not as salable as peaches, and in price are liable to approach the selling price of apples.

In many localities where pears were grown this season, the general public were not familiar with the uses of this fruit, and possibly this accounted for the slow sale. The fruit has been sold at from seventy-five cents to $1.50 per bushel, but such has been the yield of the trees that there was profit, even at the lowest prices.

The writer knows of cases where trees standing so close that an acre would accommodate 400 trees have produced four bushels per tree. If a crop like that should have to be sold at fifty cents per bushel it would yield the snug sum of $800 per acre.

The early pears are like the early apples, in that they will not long endure, but must be used up as soon as ripe. As their season is so short the market must be near and lively to make them pay. As a dessert fruit they come into competition with plums, grapes and the fall apples. Yet, under such conditions, we have found them to sell well when people are once induced to try them. In fact, a sweet, juicy pear is about as near perfection for a dessert fruit as anything we can get to satisfy the majority. It is well-known that the chief difficulty in pear growing, for forty years back, has been the blight, and the effort of planters has been to get varieties that were blight proof. And very likely we have gone a little too far in our neglect of high quality in fruit, endeavoring to secure durable trees.

Certain it is that many trees not considered safe have paid for themselves many time over in this one favorable season. The weakness of the pears, this tendency to blight, usually develops just after the tree comes into heavy bearing.

It is probable that there is such a close connection between these facts that the thinning of the crop, removing half of it, would reduce the fatal results to the trees. We recommend this treatment to pear growers, and admitting that it is at first only experimental, it ought to be tried long enough to establish some facts, pro or con.

The efforts to find non-blighters have had some results. While perhaps no trees are absolutely safe we do have in the Lincoln, Suddoth, Warner, Mt. Vernon and Keifer varieties much less liable to injury than some of the old lists.

Warner and Suddoth have stood to be twelve years old, bearing successive crops with no sign of blight. Mt. Vernon trees of some age show some dead limbs, but are still fruitful. While Keifers of twelve years are dead except a few limbs, one-third of the tree. Of course, the live limbs are loaded to breaking.

The Warner is a small pear, about the size of Seckle. It is ripe September 10th. It is sweet, and a little inclined to be mealy when overripe. Suddoth comes a month later. It is larger, and not quite so sweet.

The Mt. Vernon is large, and a juicy pear, with a little acidity which some people relish very much.

These three varieties are very promising for general planting where early pears are desired, and judging from this year's experience there is big money in growing them.

MENACE OF FIRE IN A DRY TIME.

To the Editor of The Homestead:

A few nights ago I stayed at a farm house in our neighborhood. For some reason I was not sleeping very well and along in the night, wishing to know the time, I got up, struck a match and looked at my watch. As I was holding that flickering bit of wood in my hands waiting for it to go out, the thought came over me with terrible force that we were in that house without a single drop of water save a couple of pailfuls we had brought up from the home place in a milk can that evening. The house well was as dry as a bone, while the spring, which had never failed before out in the pasture nearby, was perfectly dry.

"What would we do in case of a fire? What could we do?"

That is the question which came to me over and over again. And there was no solution to the problem for the present moment. The only thing we could do was to be desperately careful that no such condition might arise. Now, all through that section of the southern tier of New York there are farmhouses which are in just the same state, as far as water is concerned—creeks dry, springs dry, wells dry and no water to be had save by going away to some favored place and bringing in water in a can.

Farmers are praying that winter may not come on before heavy rains start the sources of water. Meanwhile everywhere the utmost care must be maintained to guard against fire. Recklessness in the use and care of pipes, cigars and cigarettes is nothing less than a crime. To throw a lighted cigar stub down anywhere where there is matter that may be ignited should be forbidden by the law of the farm and its master. All ashes should be stored in some place where there will be no danger from the wind fanning the embers into life. The stoves in the house ought to be watched with the utmost care. For it takes only the smallest possible spark to set every building on the place on fire.

Also, there should be some water kept on hand at all times. It must be brought to the farm in cans; let this be attended to every day before night comes on. Many fires could be stopped with a dipperful of water, if a dipperful were on hand. E. L. Vincent.

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You can use this Handy Home Oil Sharpening Stone and Can of HOME OIL time and again. Just the thing for sharpening shears and knives; for oiling sewing machines, clocks, guns and everything that needs oiling.

It's a bargain too—15c natural quarried Oil Stone, 10c special crooked-spout Oil Can and big 25c bottle of superfine HOME OIL—the Oil that beats them all by every standard test. All three articles for the price of the bottle of oil alone, 25c at your dealers or by mail postpaid.

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Start It! Leave It! Forget It!

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No dirty coal! No corn cobs! No wick to trim! No wood to cut! No "poking up"!—no "cleaning out"!—no worry or bother for over-worked women when the men folks are gone to town.

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If you will mail your order during the month of November I will send you The Homestead three years, Home Life, McCall's and Today's magazines each one year for the regular subscription price of The Homestead alone. Read about these four papers.

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The leading live stock and farm journal of the West. Its editorial advice and the experience of its large corps of contributors are written with the especial purpose of adaptation to the needs of the readers. It takes up in detail every feature of live stock raising, general farming, dairying, poultry growing, etc.

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Today's Magazine is a monthly and contains from 32 to 44 pages. Large, complete woman's magazine. Full of the choicest kind of literature relating to history, travel, science, invention, art, drama, education, religion, music, fashions, needlework, hair dressing, home dressmaking, health, hygiene, cooking, etc. Also short stories and serial stories.

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Send me only $1.50 for three full years' subscription to The Homestead and I will send you, without additional charge, McCall's, Today's and Home Life, each one for a full year. Remember, the offer is good only till December 1, 1913. We cannot supply you with the combination after that date. Wrap a fifty-cent piece in a one-dollar bill, attach it to the coupon below and mail it to me at once, at my risk. Do this now, before you forget it.

JAMES M. PIERCE, **Publisher The Homestead, Des Moines, Iowa**

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Enclosed please find $1.50 for which extend my subscription to The Homestead **three years.** Also send me McCall's, Today's and Home Life, each one year, without additional charge.

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(This coupon is not good after December 1, 1913.)

Echoes From a Kansas Farm

BY HENRY HATCH

Kansas has lately been enjoying spring-like weather, following a cold snap that was cold enough to put ice the thickness of window glass over water. The freeze killed all ordinary vegetation, including the Kaffir corn.

Binders are now busy cutting the Kaffir crop. Although as green as green can be before the freeze, the leaves now are dry and brittle. There is plenty of sap in the stalk, but with drying weather it will cure out all right.

We find upon cutting, that our Kaffir corn is better than we thought it was. We do not mean by this that the grain it bears so sparingly is better, but the quantity of fodder to the acre is more than we thought. With no bad weather to blacken it while curing, the quality will also be better than the corn fodder.

While the Kaffir corn is short, there is a good stand in most fields, and it is taking a lot of twine to tie it up. Twine, too, is scarce. The dealers find ready takers for each shipment as it comes in. Some fear they may not get twine soon enough so they can tie their Kaffir, but as long as this fine weather lasts the standing fodder will take no hurt.

One of the larger sized sales was held in the neighborhood yesterday. A great crowd was in attendance and all property sold well. Even horses, which have been rather draggy at some sales, sold well. A coming-four mare, weighing around 1400 pounds, brought the high price of the sale, $203. The high price for cows was $80, but both the mare and the cow were good stock.

The terms given at yesterday's sale were rather unusual, there being twelve months' time given at only 6 per cent interest. This favored the time buyer. On the other hand, the cash buyer received no favors, as there was nothing off for cash. The man making the sale was compelled to quit farming because of poor health, and it was understood he is to hold the notes himself.

Not all the cash buying done at sales is really done with cash. Perhaps this sentence sounds rather "off," but it comes about in this way; at the sale where ordinary terms are given, such as usual time with 7 per cent interest and 3 per cent off for cash, a reliable man not having the ready cash can get it at the banks for 8 per cent, and this he will do and pay cash at the sale for what he buys. By doing this, he gets the 3 per cent discount, which makes him pay only 4 per cent, hence the strange assertion that all the cash buying done at sales is not done with cash.

It seems that almost every other man you meet who lives in town is now trying to act as a grain or hay dealer. A commission is what these men are after, which, simmered down, means a chance to make money without work. It is surprising what a horde of such folks are now being kept by the real workers of the world. The number is far too numerous.

It is a waste of valuable time for auctioneers to dwell too long on small articles when there is a large amount of property to be sold in a short day. While most sales are billed to begin at 10 o'clock, the crowd seldom arrives until about 11, so every sale starts practically an hour late. On short winter days, it is chore time for the bulk of the crowd early by the clock, so the sale must end by 5 o'clock at the latest. Taking up too much time selling the small traps is a great mistake.

When an auctioneer starts off a sale by selling things fast, bidding is usually brisk all the way through. People who really want to buy a thing will bid lively as well as tardily if they are made to believe they must speak fast to get it, so all an auctioneer has to do is to start selling rapidly and the crowd will follow him. With bidding kept up at a fast clip, prices are liable to rule higher than otherwise.

STORING CELERY FOR WINTER

"First catch your rabbit" is the first clause of a famous recipe. So with keeping celery, by far the most important preliminary is the growing of it. But we will suppose that you have had the proper soil and have done the required labor and have a good crop of celery, which is sure to be worth money during the coming months. You are naturally anxious about the best ways of storing the same. Experienced gardeners build great surface cellars. They excavate, say three or four feet, and put on a heavy earth roof. Ventilation is provided for so that an even temperature may be maintained, and all danger from freezing upon the one hand, and of overheating upon the other, is eliminated.

These storage rooms are built thirty feet wide and 100 feet long. Earth floors are left, for they are an important part of the equipment.

This cellar should be ready in October and then when the first of November comes "with an eye severe and a stormy language hoarse to hear" and you understand that the northwestern gale means a drop of the mercury to about twenty above, get busy, for the profit upon your celery crop is in danger. Get your own boy and hire your neighbor's boy. Do three days' work in one. Let the boys lift the celery with spades, of course. Run it to the cellar on wheelbarrows, for, of course, you have been wise enough to build your storage room close to the celery patch. The old man (with the strong arm and wise head) begins at the back end of the cellar. He excavates a trench close to the wall four inches deep and wide enough to place the celery roots with the dirt adhering. He tells the boys to strip off all broken leaves. Then he takes it from the barrow and packs it closely in the trench. When the trench is full the whole width of the cellar, he turns a pail of water upon the roots. One pailful will be about enough to moisten the whole row. Then with a light spade he digs down again, another trench, throwing the earth carefully back over the roots of the first row. Another row is placed and the roots wet in precisely the same manner. After about ten rows are placed, leave an alley in the center, packing upon each side. This center alley is needed, because you must be able to get into your stored riches at all times until the crop is sold out. Go on until the cellar is filled. And your alley need not be over two feet wide if space is scarce. If carefully placed over 2,000 dozen can be set out in such a room of the size named. Of course, there is celery and celery. Some roots will be twice as large as others. It all depends upon the varieties grown and the distance apart of the planting. Now if your boys work vigorously and you pile it all out of the way as fast as brought in your crop should be all safely housed by one day's work.

But if you are short of help and have so much of a crop that one day is not time enough to secure it you must scent the blizzard a day in advance and commence operations in time. Be sure of this: you must not let it freeze up in the open. A light frost will not harm it, but when a crust forms upon the soil it will suffer severely.

If you have been industrious enough to bank it high so that all tops are covered of course you are secure. But not one celery grower in ten does that. They depend upon getting it in cellar before the freeze or upon trenching it.

This last plan is simpler and will keep the celery up to Christmas. It consists in digging and packing closely three or four rows wide in an outside ditch and then covering over entirely. If the earth cover is only an inch thick three or four inches of straw or stable manure is added. With care in opening trench to remove the product as wanted it will keep well until real winter settles over you.

But the cellar way is the best. Keep the temperature about forty. Examine often and when you see decaying bunches remove them first and sell upon call. Having caught your rabbit make the most of it: keep your celery in prime condition until the last is sold.

FROM TOWN TO TOWN.

In a few years half the Kansas population will be in the cities if the present figures are carried out. At the present time 39 per cent of the state's total population is in the cities of the state of more than one thousand population, while ten years ago the percentage of town residents was 34 per cent. Two decades more and the Kansas urban and rural population will be practically divided. And while Kansas' cities are becoming larger and more numerous its farm yields an acre are not increasing.

These conditions are a cause of worry to F. D. Coburn, the bookkeeper and statistician for the Kansas farmer. The population figures gathered by Mr. Coburn show that in many Kansas counties the rural population has decreased in ten years, while the urban population has increased materially.

This is true even in the years when there was an actual falling off in the total population of the state. This can mean only one thing—the removal of many farmers to the cities—and Mr. Coburn looks upon the farmer in the city as in about the same condition as a fish out of water.

"The average farmer in the city is a pretty poor sort of citizen," said Mr. Coburn. "He has been used to an active outdoor life and unless he has something to do to keep him employed in town he is one of our more forlorn and discontented men. It is too bad that so many of our farmers are moving to the cities. We need the farm owners on the farms. They keep up the land and the fences and the buildings. He is his own boss and never has to worry about the quality of the work he is doing as the man does who is working under a boss.

"The tenant is interested only in getting the largest crops possible at the least expense of time, labor and money and he cares little about the appearance of the farm.

"The farmer has many advantages a city man cannot enjoy and he is getting now where he has about all the city man has in conveniences and much that the city cannot supply. The rural mail route, electric lights, hot and cold water with modern plumbing, telephones, furnace and everything else the city provides except paved streets and the corner cigar store as a loafing place. Kansas cannot afford to lose any of its farmers and it is too bad that the figures show the greater growth in the cities, rather than in the country."

That the English farmer is also suffering from lack of help is made evident from the following item taken from the London Live Stock Journal: "The heavy land farmer in many districts is troubled to get plow boys in these days, as the work is regarded as monotonous and ill paid, therefore the village lad looks, and goes, townwards. Where pairs and threes can be used with reins, the boy can be dispensed with, but winter plowing on wet land cannot be done in this fashion, and when two men have to be sent with a three-horse team the cost of working arable land is considerably increased. That this is felt by farmers is proved by the fact that advertisements for carters in the provincial papers often end with the words 'one with boys preferred.'"

A recently-issued bulletin from the United States Department of Agriculture says that after a careful study of the habits and the examination of a large number of crow stomachs the biological survey experts of the department have reached the conclusion that the crow consumes enough grasshoppers, cutworms, white grubs and other injurious insects to make him highly valuable to farmers. The one danger from the crow, according to department experts, lies in large numbers. If the number can be kept down so that its normal food is sufficient there is every reason why farmers should encourage the bird to remain about their farms. Evidently the department investigators have overlooked the crow in his capacity as a medium for distribution of swine disease.

Poland China boar at head of the herd of C. B. Powers, Aurora, Neb. See advertisement on page 40.

SHEEP.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - LOGAN, IOWA

FORTY GOOD SHROPSHIRE RAMS

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes sired by imported rams. The ewes also directly descended from imported ewes. Address
DAVENPORT & MACK - - - - - - BELMOND, IOWA

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FOREST HILL STOCK FARM

A FEW real bargains left in Shropshire rams, including our flock ram. We now offer ewes bred, at prices that will look good to all contemplating purchasers. Lambs of both sexes. Write or call. Bargains in ewes for next 30 days or until surplus sold.
KAUFMANN BROS., R. 1, MOSCOW, IA.

POLLED DELAINE MERINO SHEEP

EXTRA large rams, also choice young ewes at ½ price.
POLAND CHINA HOGS, BIG-TYPE
Fall and spring boars at $18.00 to $20.00. Rams same prices. Order now and get the best.
F. F. & V. G. Warner - - Bloomfield, Iowa

SHROPSHIRES
of the right breeding.
60 imported and home-bred rams. 40 ram lambs and ewes to match, of the Rector family. C. D. NICHOLS LIVE STOCK CO., Cresco, Ia.

SHROPSHIRE SHEEP

I AM closing out my herd at cut rate prices on account of other business. 11 choice yearling rams, 1 two-year-old ram, and some ram lambs. They are heavy boned and well wooled. Low prices to close out. I am about sold out of ewes.
EARL BLOOM - BRIDGEWATER, IOWA

SHROPSHIRE RAMS, also a few ewes of the very best sort for sale. Address Eugene Haws, Charleston, Neb.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Willard Miller, R. 2, Anita, Iowa.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, Nov. 1.—About 66,000 cattle registered at Chicago this week, the largest run of the year and a crop full of medium and low-grade stuff. Packers had in close to 5,000 head of canner stock direct from Buffalo, Toronto and elsewhere. The class of stocks running from strictly good to prime was not in such profuse supply this week and there is a growing impression that the reserve supply of that kind in feeders' hands has been reduced to small proportions. Western markets have had lighter cattle supplies this week, but the deluge in the East continues.

All bets are off regarding what is likely to happen in the cattle trade during the next few weeks. Seasonable liquidation is to be expected and the poultry season is right ahead, but the proportion of good cattle in the run is steadily dwindling, which may keep the grades now selling above $8.75 up and thereby widen the spread. Some western cattle are expected next week, but this will practically close the western gathering season. Closing of the pasture season, coupled with high cost of feed, is likely to keep native stuff of common and medium class coming in considerable quantities until the country gets into winter quarters, although there was nothing about the trade at any time this week, especially on the last rounds, to warrant filling the market lap with it next week.

Cattle values show very irregular but some sharply downward price breaks as compared with a week ago. In the beef steer trade prime yearlings and a few loads of prime heavy bullocks that get action on the reputation of the feeder have escaped loss, but everything else is irregularly 10c to 40c lower. Most of the good heavy cattle dropped 10 to 15c, while the rank and file of the $8.25 to $8.85 grades took 25c declines. A part load of fancy yearlings scored $9.85, a new high point for the year and some 1,300-pound bullocks reached $9.40 to $9.50, but heavy cattle selling at $9 had to be of the crackerjack variety and the run has carried a raft of cheap and medium short-fed and grass stuff selling under $8 line that showed the full decline. Butcher she stuff was hard hit, canners and cutters dropping 15c to 25c, while 35c to 50c declines were most general on in-between classes of cows and heifers and even choice fat cows sold 25c lower, prime-fed yearling heifers holding up well in value. The break should be effective in checking the run, the influx or Canadian stuff will soon subside, as well as the movement of Virginia, Kentucky and Tennessee cattle, and liquidation of pasture and stalkfield stuff should soon show abatement, giving the Eastern demand a chance to come back and the market an opportunity to harden.

Some Argentine beef is dribbling into Atlantic markets. The supply is not large enough to be a serious factor in determining prices, but every pound of foreign stuff means one less pound of domestic product needed, as the consumer is getting no benefit in the way of reduced cost of beef. The cattle market may fluctuate 50c per hundredweight in a week, but retail prices are fixed and those who make them inexorable.

Volume of trade in stock and feeding cattle the past week was the heaviest of the year, buyers from Illinois, Indiana and Ohio flocking Chicago were attracted by sharp downward breaks in prices Monday and within recent weeks. Fair call also developed from New York, Michigan, Pennsylvania and Iowa and Wisconsin buyers were somewhat in evidence. The big supply was well cleared by week-end at 10c to 25c declines from the week previous, the bulk showing 50c to 65c declines from high time early in October. It is largely a $6.50 to $7.25 market and fair to choice 850 to 1,000-pound weights, best fleshy feeders reaching $7.50, while $6 to $6.75 is now taking the bulk of the stocker steers.

Packers have intimated by their bearish attitude late this week that their bear campaign in the hog market would be resumed and pushed vigorously next week, and shippers under the delusion that the boom early this week is of durable variety are likely to experience a rude awakening, if supply proves at all generous. Market sentiment is by no means bullish and the reaction of the last week has undoubtedly been due solely to lack of ammunition, country shippers being afraid to continue gathering in the face of a continuous decline. There were 11,000 more hogs at eleven markets Friday than a week ago and packers regard this as a herald of a swelling movement and easier picking next week, in case they will resume the price-smashing process, a stunt possible only when supply is in excess of fresh meat demand.

Bulk of the hogs sold on the Friday market at $7.85 to $8.15, the general average at $8 standing 15c higher than a week ago. The extreme top at $8.30 was but 5c higher but most packing stuff was 25c up, the range in prices having narrowed. Packers make a semi-official announcement that their objective point is 6½c for house droves, but the trade does not believe common cost can be held as low as 7c for any considerable time during the winter packing season unless growers decide to liquidate the new crop of hogs prematurely regardless of what they realize owing to high cost of corn.

Some of the provision specialists take issue with Patrick Cudahy in his prediction that there will be 1,000,000 more hogs packed from now to March than a year ago. They still hold to the belief that the premature marketings of drouth and cholera scarce hogs together may mean a dearth instead of a surplus. In any event they also believe that January products are quite likely to sell higher than the May delivery, as there is but a small supply of product at a profit at the current prices prevailing for both. There is but little chance to manufacture ribs in time for January delivery, and there is not much over 300,000 pounds of ribs now available for delivery.

Friday's closing hog quotations on the Chicago market follow:

Bulk of sales	$7.85@8.15
Mixed, 210 to 250 lbs	7.80@8.00
Mixed, 170 to 200 lbs	7.80@8.00
Medium weights	8.00@8.10
Light butchers	8.10@8.20
Heavy butchers	8.15@8.25
Light shippers	8.00@8.10
Heavy shippers	8.15@8.25
Heavy packing	7.70@7.95
Rough, heavy packing	7.50@7.65
Throughout packing sows	6.75@7.40
Fair to choice light	7.75@8.05
Light-light, 135 to 155 lbs	7.50@7.85
Pigs, good to fancy	6.75@7.70
Pigs, inferior to fair	5.25@6.65
½Boars, inferior to choice	1.00@3.00
Stags, subject to dockage	7.90@8.40
Government throwouts	4.00@5.00

½Subject to Government inspection.

Ovine trade opened the week under the handicap of a 68,000 head supply on Monday, and fat lambs closed that session at a 25c to 35c decline. The loss was all repaired by early Friday, but a 10c lower close at week-end was a warning to sellers not to crowd next week's market. Sheep and lambs are selling high for this season of the year and eastern dressed markets are not as healthy as they might be. What the immediate future market has in store the selling side depends wholly upon supply and it is variously reckoned. Range stuff from the Dakotas and Montanas will be run for two or three weeks yet, but it has fallen to a feeder crop almost exclusively. Holders of fed westerns are showing a disposition to cash in early-bought stuff to escape a feed bill and a run of half-fat stuff of that character and a good supply of natives is feared. At week-end fair to best fat lambs are selling at $7.00 to $7.50, feeders largely at $6.25 to $6.65 fat ewes from $4.25 to $4.50, feeders up to $3.85 and good culls to $3.25, while choice fat yearling wethers of light weight are quotable at $6.00 to $6.25 and best wethers to $5.10.

October receipts of live stock on the Chicago market, with comparisons with October, 1912, follow:

	1913.	1912.	Inc. or Dec.
Cattle	242,175	272,238	†30,063
Calves	19,914	26,867	†6,953
Hogs	642,278	521,874	*120,400
Sheep	803,459	803,085	*374
Horses	5,019	6,124	†1,105
Cars	22,979	22,813	*166

*Increase. †Decrease.

Chicago livestock receipts for the ten expired months of the year, with comparisons:

	1913.	1912.	Inc. or Dec.
Cattle	2,044,254	2,164,480	†120,226
Calves	33,150	458,801	†125,651
Hogs	6,042,916	5,946,580	*96,336
Sheep	4,730,890	4,861,673	†130,783
Horses	82,100	84,250	†2,150
Cars	208,601	209,526	†925

*Increase. †Decrease.

For the first ten months of 1913 six leading western markets received approximately 6,264,000 cattle, 14,975,000 hogs and 10,940,000 sheep, a decrease of 59,000 cattle and 709,000 hogs, and an increase of 94,000 sheep over corresponding time last year.

AN AUTO ENGINE FOR POWER PURPOSES.

To the Editor of The Homestead:

I notice your inquiry from a subscriber who desires to know whether any one has had experience with an auto engine for furnishing stationary power. I also notice that he cay buy an old machine cheap and thinks that the engine is all right.

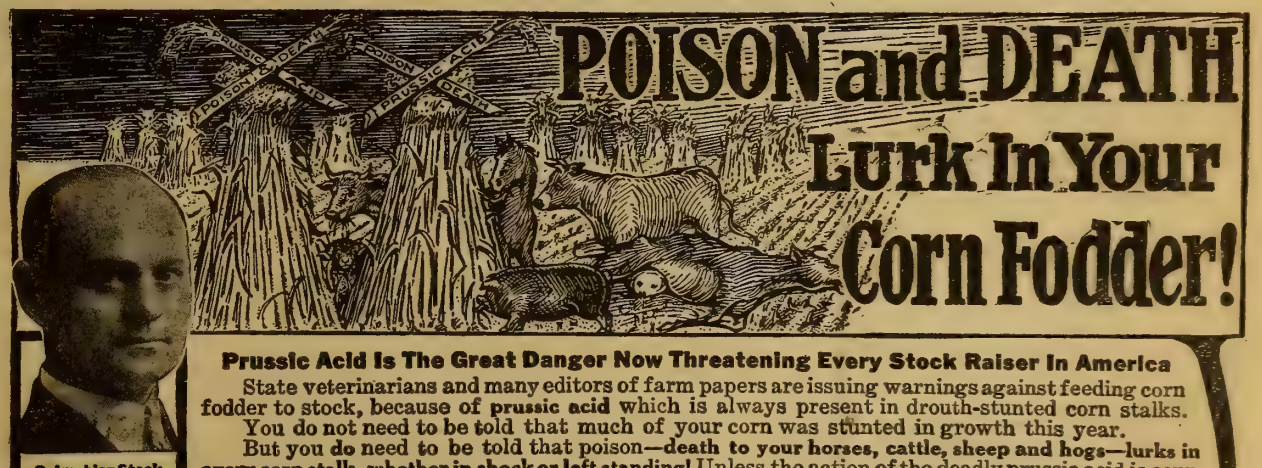
The following is my experience: I purchased a forty-horse power auto engine, had it mounted on a good, heavy, gas engine truck, tapped the fly wheel of the original engine and fastened a sprocket wheel to this fly wheel and ran a chain from this to a shaft about twenty inches above and on this shaft (that is fastened to the truck with very heavy braces) another sprocket which, of course, turns the power shaft upon which I have different-sized pulleys.

As to power I think it will yank anything along in good shape that the ordinary sixteen to twenty-horse power gas engine won't budge. I am now rigging this up for the same purpose that your subscriber desires to use it; that is, I am rigging the feed grinder. The engine works, because I cut nearly a thousand tons of ensilage with it this fall and it did not choke down any oftener than a steamer and I can cut seventy-five tons a day of ten hours. The only thing so far that I have had trouble with is keeping it cool. An auto engine is designed with small radiator and fan that will work while the machine is traveling, but not so while it is stationary.

The water boils, or nearly so, very quickly. After trying several devices I have a five-barrel galvanized tank that I fill with water and as it gets too hot I let the engine pump the water (with the circulating pump) on the ground and replace with cold.

As to its being practical, I think mine is, but there are several things to take into account. When an engine is bought, be absolutely sure that it is a good one; an auto engine is very apt to be worn out long before the balance of the car and I think 90 per cent of them are no good. Get a big one; that is, with a large cylinder displacement. Horse power may be all right the way they figure it, but I know of some forty-horse power autos that really have twenty-eight and if the engine is in bad shape it might not pump enough water to keep itself cool. Have a good machinist "rig" it up; it will cost considerable, perhaps nearly as much as an engine originally built for the purpose. I have mine with self-oiler, magneto and only start with batteries.

Nebraska. Fred E. Mockett.



Prussic Acid Is The Great Danger Now Threatening Every Stock Raiser In America

State veterinarians and many editors of farm papers are issuing warnings against feeding corn fodder to stock, because of **prussic acid** which is always present in drouth-stunted corn stalks.

You do not need to be told that much of your corn was stunted in growth this year.

But you do need to be told that poison—**death to your horses, cattle, sheep and hogs—lurks in every corn stalk, whether in shock or left standing!** Unless the action of the deadly prussic acid is counteracted it often kills in a few hours. Many stock losses from this source have already been reported.

Every hog raiser knows too, the danger of feeding new corn to his hogs, especially as in this year it is chaffy and stunted. It causes one of the worst forms of indigestion and worms, and like cholera frequently wipes out whole herds in a few days.

I CAN PREVENT THAT LOSS

Let me prove to you, before you pay me a cent, that the deadly effects of corn fodder poison and of new corn fed to hogs are positively counteracted by giving your stock free access to Columbian Stock Powders.

The forage poison (prussic acid) and new corn cause acidity of the stomach and fermentation resulting in acute digestive troubles which quickly cause death. Columbian Stock Powders are anti-acid and anti-fermentative. Feed these powders and you can give your stock the free run of the fields—standing or in shock. All ill effects from eating the undeveloped corn and stunted stalks will be absolutely counteracted.

Columbian Stock Powders best for general stock feeding, exterminating worms, fattening hogs and preventing hog cholera.

Cattle Tone—A powerful, highly concentrated digestive tonic for cattle. The sure, quick way to turn corn into beef.

Columbian Sheep Powders—Especially prepared to keep sheep free from disease and worms, stop losses and increase profits. A wonderful appetizer and tonic. Counteracts acidity in fodder and silage.

COLUMBIAN STOCK POWDERS

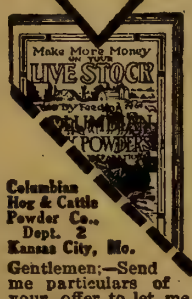
are not a food, but a highly efficient medicated preparation. They contain a powerful vermifuge and not only kill but expel all worms in hogs, horses and sheep. These strength-sapping, disease-breeding parasites are the cause of fully 90 per cent of all stock diseases. You must get rid of them in order to have thrifty stock. The only way to keep your stock vigorous, free from worms and disease and poison-proof is to treat them internally with Columbian Stock Powders. Will put a speedy end to all their digestive troubles, make them fat and sleek, and keep them in finest condition. Indispensable for brood sows because it keeps them free from fever, insures strong healthy litters and an abundant flow of pure milk.

A BIG PROFIT MAKER—NOT AN EXPENSE

Columbian Stock Powders are not only insurance against stock losses—they actually increase your stock profits. Enable you to fatten hogs with less feed and shorten the fattening period. Start feeding "Columbian" to your fall pigs now before cold weather sets in, so as to hasten their growth and insure more pounds of prime pork. In daily use by thousands of practical raisers who declare that "Columbian" has put stock raising on a permanently profitable basis for them.

Write For My 90 Days Free Trial Offer

Just write or mail coupon stating how many hogs, cattle, horses and sheep you are feeding and I'll make you an offer whereby you may try Columbian Stock Powders 90 days before paying me a cent. I absolutely convince you that it's big money in your pocket to keep on feeding them. This is the most liberal offer ever made on a proposition of this kind. Don't fail to take advantage of it.



FREE Our new book on hog and stock raising is just off the press—an intensely interesting and highly instructive book that you should read. Gives lots of valuable information and experiences of many of the largest and most successful stock raisers. Send coupon today for your free copy.

Columbian Hog & Cattle Powder Co.,
Dept. 2
Kansas City, Mo.

Gentlemen:—Send me particulars of your offer to let me give Columbian Stock Powders a 90 Days' Free Trial before paying a cent.
At present am feeding.....Hogs; .....Cattle; .....Horses; ..... Sheep. Also send me free, a copy of your book, "Make More Money on Your Live Stock" and particulars how to get a Columbian Self Feeder FREE.

Name.....

Address.....

AGENTS WANTED

We want a few reliable farmers to represent us in every community. Our proposition unusually attractive—a big and sure money maker and the work is not hard. It will pay you to investigate. Write for particulars.

Be Sure To Mail Coupon Today And Get My 90 Days' Free Trial Offer. Address

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Columbian Hog & Cattle Powder Company

1460 Genesee St. Dept. 2 KANSAS CITY, MO.

Columbian Self Feeder

Regular price is $5; but if you will write or mail coupon, at once I will tell you how to get one **FREE**

Get Your Canadian Home From the Canadian Pacific

WE will make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will *make you independent.*

20 Years to Pay

Rich Canadian land for from $11 to $30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

We Lend You $2000

for erecting your buildings, fencing, sinking well and breaking. You have twenty years in which to repay this loan. You pay only the banking interest of 6 per cent.

Advance of Live Stock on Loan Basis

The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle sheep and hogs up to the value of $1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

This Great Offer Based On Good Land

Ask for our handsome illustrated books on Manitoba, Saskatchewan and Alberta—mention the one you wish. Also maps. Write today.

J. F. THORNTON, *Colonization Agent*

Canadian Pacific Railway
Colonization Department
112 W. Adams St., Chicago

FOR SALE—Town lots in all growing towns—Ask for information concerning openings.

Where Men of Ambition Prosper

NOWHERE is ambition rewarded more generously than in the Southeast. Small capital and energy will accomplish wonderful results for you in this favored land.

Dairying, trucking, fruit growing, poultry raising and general farming are making Southern farmers independent.

Land from $15 an Acre Up

Plenty of rain and ample sunshine every month, irrigation unnecessary. Growing season from 7 to 10 months duration. Two and three crops raised annually. Local markets plentiful and profitable. Early vegetables and fruit bring high prices in Northern cities.

Modern schools and highways, good churches, rural telephones, healthful climate and delightful summers and winters make the South the most desirable location in America for Homeseekers.

Learn How to Make Money

Send for the "Southern Field" magazine, booklets and farm lists which give the whole facts.

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YOUR OPPORTUNITY
Is NOW In the Province of
SASKATCHEWAN
Western Canada

160 ACRE FARMS IN WESTERN CANADA FREE

Do you desire to get a Free Homestead of 160 Acres of that well known Wheat Land? The area is becoming more limited but no less valuable.

New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homesteading land left.

A Swift Current, Saskatchewan farmer writes:—"I came here on my homestead, March, 1906, with about $1000 worth of horses and machinery, and just $35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 50 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta.

Send at once for Literature, Maps, Railway Rates, etc., to

Frank H. Hewitt
Des Moines, Iowa
W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.
R. A. Garrett, 315 Jackson St., St. Paul, Minn.
or Address, Superintendent of Immigration Ottawa, Ont., Canada

When writing to advertisers please mention The Homestead.

Common Sense Methods of Livestock Feeding.

THAT the economical feeding of livestock is of great importance no one for a moment will deny, yet how few farmers we find who are at all acquainted with the principles which are involved or understand the cause of which they, in their practice, see only the effects. They learn from experience that some kinds of food contain greater fattening properties than others, yet are content with this imperfect knowledge and pay no attention to an investigation of the causes of these differences.

Of course it is not to be expected that every farmer can conduct scientific investigations of the various kinds of animal foods, but there is no reason why he should not keep in close touch with the experimental farms and agricultural colleges and keep posted in their results instead of blindly following the old routine adopted by his forefathers without even an effort or desire for improvement.

It is not sufficient for a feeder to know that some kinds of grain, forage and roots possess fattening properties exceeding those of others, but he should understand why this is so and be able to mix his stock feeds so that he can obtain results at the smallest possible outlay.

It is not only necessary that a feeder should understand the values of the various feeds he uses so that he can use them in the most judicious manner, but he should understand the principles by which they operate and provide nourishment to his animals and thus be enabled to employ those containing the most desirable elements for each particular branch of feeding, and also be enabled to go into the feed markets and buy grain foods that will prove adapted to his needs. It is not my purpose to discuss this question scientifically, but to discuss the two classes of animal foods and how to utilize them in the most profitable manner.

Albuminoids, protein or nitrogenous food stuffs are meat and milk making, and their base is nitrogen. This element is nearly pure in the white of an egg, and it predominates in albumin, gluten, gelatin, fibrin, casein and all proteins, both vegetable and animal. This protein is the expensive element and the element which is deficient in the generality of home-grown stock foods. Hence we should make a special effort to produce foods on our farms that are rich in this element, such as clover, cowpeas, alfalfa, rich pasture grasses and other forage and fodder crops that are rich in protein.

The carbohydrates or carbonaceous foods are the heat and fat producing foods and their base is carbon. This element predominates in the diamond, coal, wood fiber, starch, sugar, oil, resin etc. These foods are cheaper than those rich in protein, and most of our home-grown foods contain an excess of these carbohydrates. The proper balance of these two classes of foods for young stock and milk cows is about one part protein to six parts of carbohydrates. The ration for each 1,000 pounds of live weight is 24 pounds of dry food per day, of which 15 pounds must be digestible, and the 2.5 pounds of this must be nitrogenous or the equivalent of this. Thirty pounds of clover hay is about an equivalent. In order to more fully explain this subject we will quote a few tables and show their relative values when fed singly or mixed with other foods. Below is given the institute ratio of some of the so-called nitrogenous foods:

Skimmed milk	1 to 1.9
Buttermilk	1 to 2.6
Cottonseed cake	1 to 1.8
Brewers' grains	1 to 3.0
Hempseed cake	1 to 1.5
Red clover	1 to 3.8
Alfalfa before bloom	1 to 2.3
Flaxseed	1 to 3.1
Linseed cake	1 to 2.0
Rape cake	1 to 1.7
Malt sprouts	1 to 2.2
Sunflower seed	1 to 1.3
Peas	1 to 2.9
Pasture clover	1 to 2.5
Field beans	1 to 2.3
Pea meal	1 to 3.0

These foods should be balanced with carbonaceous ones, or they will injure the animal or go to waste. The nitrogenous element goes to make meat, muscle, casein or cheese. These foods are the most expensive and difficult to obtain, hence they are seldom overfed. It has been clearly demonstrated that the fats in milk do not come from carbonaceous foods, but from a proper combination of these foods with nitrogenous foods. All concentrated foods should be fed with care and caution. The aim of the feeder should be to feed both bulky and concentrated foods at the same time. The wise feeder will grow a variety of both classes of foods to supply the needs of his animals and buy such as he cannot grow on his own farm to feed in connection with what he may be able to grow at home. It will pay, not only as a gratification to his animals, but as a true economy from the money side of the question. The attention of the farmers should be devoted to the science of feeding animals in an economical and efficient manner.

There is another class of foods that are fairly well balanced as far as protein and carbohydrates are concerned, but these foods must be utilized with coarser foods to give the stomach proper stimulus or distension, to keep its contents loose so that the gastric juices may act on and digest them. When we feed two classes of foods that are not properly balanced there is a waste. True economy consists in the feeding of a properly balanced ration and one the animals will eat up clean. The various foods may be balanced by feeding them alternately as well as in combination, but when feeding some of the more highly concentrated grain foods it is often desirable to utilize some of the more bulky foods as a divider in the ration, so that the juices of the stomach may obtain a more favorable action on the fine particles of food and prepare them for more perfect digestion and assimilation. While feeding dairy cattle we have found that they are enabled to make better use of their grain foods when they are fed with ensilage. In this way the ensilage acts as a divider and helps to separate the particles of grain food and assist in the work of digestion. The juices also act upon the grain food and assist in the work of digestion. There are some kinds of grain foods that are made more palatable by the use of a divider, such as middlings, low grade flour, oil meal and other foods that are inclined to form a sticky, doughy mass that makes them unpalatable to some kinds of farm animals. Cut clover or alfalfa can be used to advantage as a divider of grain foods, and if horses are being fed heavily with grain it is many times advantageous to mix the grain with cut hay to prevent them from becoming gorged with too much food. Swine also obtain great benefits from clover and grasses while they are being fed cornmeal and other rich concentrated foods that have a tendency to form a doughy, sticky mass in their stomachs. We must plan to make all our rations palatable as well as balanced. Some animals do not like one kind of food as well as another, and a careful feeder will study the likes and dislikes of his animals as well as their capacity to consume the various rations at a profit, and plan his system of feeding to meet the individual needs of the animals that are being fed.

There is another point that we should keep in mind, and to illustrate it we will consider alfalfa. Here we have a food that is fairly well balanced, but if anything it contains a little too much protein, so we add a little corn ensilage or timothy hay to make a balanced feed, but when we feed it we do not get as good results as our figures show. What is the reason? Simply that the ration contains too much coarse, woody, indigestible fiber, and it requires too large a waste of the animal's energy to eat, digest and assimilate the ration. Thus we see it would be better to supplement the

$850 profit per family!

The surplus farm profits in Southeast Missouri average $850 *per family*. Farmers of this section are making big money because their soil is the *deepest* and *richest* in America.

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Cotton Belt Route in Southeast Missouri

a man can make big money in stock raising. Cattle and hogs go through the whole winter without stall feeding. Seven months are without frost; and the pastures are green every month. E. J. Mahoney, of Stoddard County says "Last fall, we bought 50 head of young calves for $10 a head, pastured them all winter on wheat and sold them in the spring for $31 a head. We finished them on cotton seed meal, but fed nothing else."

Think of this rich soil—10 to 50 feet deep—**close** to the big city markets, in the **center** of civilization, with all the social advantages of good schools, fine modern towns, churches, phones, rural service—surely here is an apportunity for the progressive farmer. These lands have not been grabbed before, because it was only recently that the U. S. Government took hold of the drainage, and made the land productive and healthful.

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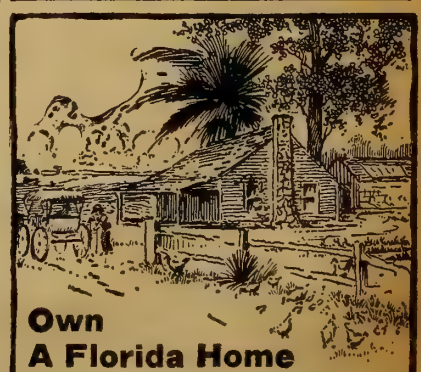

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alfalfa hay with concentrated grain food.

As a general proposition the great problem is to find foods rich in protein to supplement the carbohydrates, but in feeding skim milk we face a different problem, for here the carbohydrates have been removed and the protein of the whole milk condensed into the skim milk so we find it economical to feed corn and other feeds with skim milk to young and growing animals. Many practical feeders use whole corn with excellent results. Professor Henry, of Wisconsin, found that the best results came from feeding not to exceed five pounds of skim milk with one pound of corn. For calves that are eating hay, the proportion may be larger.

Another fact that is not recognized among farmers in general is that early cut and properly cured hay contains from 20 to 50 per cent more digestible nutrients than late cut hay. Among the foods that are classed as well balanced may be named the following:

Cow's milk	1 to 4.4
Wheat meal	1 to 5.7
Wheat bran	1 to 5.6
Millet	1 to 5.4
Red top	1 to 5.4
Alsike	1 to 4.9
Quack grass	1 to 5.2
Turnips	1 to 5.8
Barley middlings	1 to 6.0
Buckwheat bran	1 to 4.1
Rye bran	1 to 4.1
Cottonseed	1 to 4.6
Wheat	1 te 5.8
Red clover	1 to 5.7
Fermented beet leaves	1 to 4.0
Ruta-baga leaves	1 to 3.9

All these foods should be fed with others, or alternately, so as to make them palatable and prepare them for perfect digestion. Some may be fed alternately with good results, but care should be taken to feed a wide variety and not two foods alone.

Next we will consider the carbonaceous foods. If not fed other food the animals crave the nitrogenous elements which these foods are deficient in. They will gorge themselves in their efforts to get sufficient of the nitrogenous elements. We must keep in mind that these foods contain chiefly fat and heat-producing elements. If the animals are exposed to the weather they will require more of these foods than if kept in a warm barn or stable. The following is a list of some of these foods with the nutritive ratio of each:

Cream	1 to 30.5
Wheat bran	1 to 9.7
Corn bran	1 to 10.3
Wheat middlings	1 to 6.9
Pumpkins	1 to 18.4
Buckwheat grain	1 to 7.4
Corn	1 to 8.6
Oats	1 to 6.1
Barley	1 to 7.9
Rye	1 to 7.0
Carrots	1 to 9.3
Sugar beets	1 to 17.0
Ruta-bagas	1 to 8.3
Potatoes	1 to 10.4
Artichokes	1 to 8.3
Cornstalks	1 to 34.4
Oat straw	1 to 29.9
Rye straw	1 to 52.0
Corn ensilage	1 to 12.0
Sorghum	1 to 7.4
Fodder oats	1 to 7.2
Hungarian grass	1 to 7.1
Fodder rye	1 to 7.2
Blue grass, in bloom	1 to 7.5
Timothy	1 to 8.1
Orchard grass	1 to 6.5
Meadow hay, medium	1 to 8.0
Apples and pears	1 to 43.0
Corncobs	1 to 71.2
Oat chaff	1 to 33.8

Many of these carbonaceous foods are more valuable than others owing to their mechanical action. Some of the root crops may be utilized as a source of protein up to a certain amount a day and take the place of protein feeds. Root crops can be more profitably fed if the animals are being fed no other form of succulence. There are numerous protein feeds on the market, and we would advise every feeder to keep in close touch with his nearest experimental farm and read the bulletins concerning these feeding problems and know the value and composition of the various kinds of materials he uses.

EXPERIMENT WITH SIBERIAN ALFALFA.

The middle Northwestern states have become tremendously interested in the alfalfa problem, says W. P. Kirkwood in The Review of Reviews. They see in this wonderful forage the basis of more stable and profitable farming. But they have had trouble to find just the hardy kinds of the plant needed to meet rigorous climatic conditions. A campaign now well under way in South Dakota—to grow alfalfa widely and especially to reclaim the high-and-dry lands of the state with alfalfas obtained from Siberia and Russia—is, therefore, of the utmost significance to western agriculture. It is certainly one of the most significant movements in agriculture today.

The great importance of the movement lies in the tremendous value of alfalfa as a forage for practically every kind of live stock. Alfalfa grows luxuriantly, giving abundant yields, it is rich in protein, it is extremely palatable, it gathers nitrogen abundantly, it renovates the soil and provides better conditions for succeeding crops, and it is long lived. It has been the chief support of great peoples in the region between the Indian Ocean and the Mediterranean, famous for its herds since long before the Christian era. By helping to restore the live stock industry of the western uplands it will directly enhance the wealth of the West. But live stock means improved soil conditions and these spell better crops of different varieties. Consequently alfalfa means more stock raising and more crop raising, and greater general prosperity wherever it can be grown. It has been proved that the Russian and Siberian alfalfas can be grown on the high-and-dry uplands. Hence the effort to extend the alfalfa areas over these regions, if successful, means immensely increased prosperity. It is little wonder that the people of the middle Northwest are interested.

Professor Hansen believes that even rough lands of the high and dry kind in the Northwest of our country can be made valuable—possibly worth $100 an acre—if they can be made to grow alfalfas. The success of South Dakota's campaign, which already is assured through the co-operative work of some fifteen hundred farmers under the professor's direction, will, therefore, point the way to the profitable use of millions upon millions of acres of uplands in the vast region between the Mississippi River and the Missouri on the east, and the Rocky Mountains on the west, and from the Panhandle of Texas on the south far to the northward. This will mean reclamation of a high order and on an immense scale, where irrigation is quite out of the question.

Alfalfas for such areas had long been dreamed of, but never realized in this country. From the Panhandle of Texas, from Oklahoma, from western Kansas, from Colorado, Idaho, Montana and elsewhere, came the cry for something of the kind, but in vain. The common alfalfas would not do. Unless provided with ample moisture in the summer and covered with a blanket of snow in the winter they would die out. A hardier variety must be found. Then came Professor Hansen with a new philosophy of plant life and the discovery of hardy alfalfas in Russia and in the heart of Asia, giving promise of a vast extension of the alfalfa belt on this continent and of a drouth resistant and cold resistant forage for the high-and-dry uplands. It is upon experiments with these new alfalfas that men and women who have been trying to subjugate dry, cold areas are now building their hopes.

DOUBLE HOG HOUSES.

A subscriber who has been unusually successful as a pork producer has adopted the plan of double hog house herewith illustrated. He argues that the natural tendency of the hog is toward sociability and if two litters are housed in a double house separated, of course, by a partition, that they will do better than if each were in a separate house and much better, certainly, than if all were together. Each litter will keep to its own department of this house. As will be seen the construction is of the simplest character, a minimum of lumber being necessary and the work such as any farm mechanic can do. It affords protection just as well as the most expensive hog house. In emergency it may be moved from lot to lot. This house is seven feet high, ten and a half feet wide, and six feet long. The doors are two feet wide and two and a half feet deep.

CHEAP AND CONVENIENT DOUBLE HOG HOUSE.

CROW IS THE FARMER'S FRIEND.

"Be kind to the crow," is the injunction issued to city and country dwellers alike by the department of agriculture. The crow has been found as the result of first hand study by experts of the biological survey to be a friend to the farmer and a champion of the corn crop. "After a careful study of the habits and the examinations of a large number of stomachs," it is said, "the department experts have come to the conclusion that the crow consumed enough grasshoppers, cutworms, white grubs and other injurious insects to make him highly valuable to farmers. There is, however, one bad habit which the crow has, and that is the destruction of young birds and birds' eggs, but this trait is outweighed by the good the bird is doing for the farmer in the destruction of worms and insects.

Scientists tell us that the compounds of nitrogen are broken up during warm weather by the rapid growth of minute germs that live in the soil, and that it is due to the presence of these germs on the roots of clover that that plant is able to secure such a large amount of nitrogen. This is running the germ theory into the ground.

That lime may be used with benefit on some soils has become a stern fact, based on the experience of farmers of many countries extending through many centuries. Roman farmers practiced marling more than 2,000 years ago. The use of lime for agricultural purposes was well known to the English more than 250 years ago. No doubt the Chinese were the first to use lime on the soil.

NEWS OF THE SALE RING

The Lake Mills Holstein Sale.

The eighth semi-annual sale of the Lake Mills Holstein Breeders' Consignment Sale Company, held October 29th, adds another laurel to the crown of success which this sales company has achieved in the past four years. Held as usual in their finely equipped sales barn, which is reported to be the best arranged dairy sales barn in the United States, they drew a crowd of over 500 interested breeders and lovers of the black and white. Colonel Hager, of Algonquin, Illinois, Colonel Mack, of Fort Atkinson, assisted by Colonel Love, conducted the selling in a most excellent manner, and are to be complimented on the satisfaction which they gave, both to consigners and purchasers. The sales barn, which is one of the elements that makes this one of the most successful sales is equipped for the comfort and convenience of consigners, purchasers and the cattle consigned. The loading platform is 165 feet long, located directly on the main line of the Chicago & Northwestern Railroad. Eight cars can be loaded or unloaded at one time. The building is 165x60 feet on the main floor. This floor contains office, sales ring with elevated seats accommodating 400, one ton elevator, dining room and kitchen, box stalls, fifteen feet by 140 feet total length, toilet rooms, etc. The second boor contains a hay loft, which holds four tons of hay and bedding and sleeping rooms for attendants. The basement, 40x165 feet, contains stanchions for cattle, 255 head can be comfortably housed under cover. The dining room, one of the attractive features of the building, will seat 260 people and is completely furnished with tables, silverware and dishes. Much credit should be given the ladies of the Methodist church for the excellent meals served. The sale was enthusiastic from the start, although at the first some great bargains were picked up as all the buyers had not yet arrived. Among the heavy bidders were: J. W. Goldthorp, of Genoa Jct., Wis.; John Abbott, of Palmyra, Wis.; F. E. Getzelman, of Hampshire, Ill.; Dr. H. B. Faville, of Chicago; H. A. Yates, of Belvedere, Ill.; Henry Royce, of Spokane, Wash.; Archie Reid, of Janesville and several others. Mr. Getzelman spoke several times urging the breeders to bid more on certain particular animals, although he was trying to buy the animals himself. Brown Brothers, of Hartford, S. D., who held a sale of eighty grade Holsteins in September, were present and took twenty fine animals. Mr. N. A. Hanson, of Galloway, Minn., representing the Detroit (Minnesota) Commercial Club, purchased several animals, which the club will introduce into the territory surrounding Detroit to improve the herds. The buyers represented nearly every state in the northwest section of the United States, Illinois, Iowa, North and South Dakotas, Minnesota, Wisconsin and Washington, being the heaviest recipients of the offering. There were 104 animals sold at an average of $236.78 for both old and young, totaling $24,625. Offers of $200, $150 and $125 were frequently heard for the unborn calves of the cows sold, because of the excellent breeding on the sire's side. J. Bristol & Sons, of Oakfield, Wis., had the largest offering, which contained nineteen females bred to King Segis Pontiac Polkadot. The highest priced bull, Sir Ormsby Pontiac Korndyke, consigned by Nathan E. Gatzert, sold for $1,125. The highest priced cow, Ivy Ormsby De Kol, consigned by Frank Fargo, sold for $975, Uneeda Korndyke Dema, a senior yearling who sold for $335, was the highest priced heifer. The highest priced bull calf was a son of King Segis Pontiac Polkadot from an untested dam. This calf was but a few days old, and sold for $95. The highest priced heifer calf, one day old, daughter of Ivy Ormsby De Kol, the record-priced cow of the sale, sold for $325. This was the most phenomenal sale of the day. The consigners were: M. E. Hoffman, of Bassett, Wis.; F. J. Bristol & Sons, of Oakfield, Wis.; F. B. Fargo, S. W. Faville, Wm. Everson & Sons, Milan Demerit, C. B. Rutherford and E. J. Fargo, all of Lake Mills, Wis.; John Hetts, of Fort Atkinson, Wis., and Nathan E. Gatzert, of Libertyville, Ill.

FEMALES.

Queen Model Fayne; E. W. Van Buren, Waukesha, Wis.	$ 165
Uneeda Korndyke Antje; S. H. Bird, South Byron, Wis.	180
Flora A. Mepham 2d; Clyde Trenay, Platteville, Wis.	165
Uneeda Korndyke, heifer; Ferd Weiselman, Caledonia, Wis.	160
Ella Vermon De Kol; Vinzen Babbler, Monticello, Wis.	220
Auke Johanna De Kol; Vinzen Babbler	180
Heikje Ormsby De Kol; Vinzen Babler	280
Ann Rouble Peck of Edgetown; E. C. Brown, Lake Mills, Wis.	175
Annie Lourie De Kol of Edgetown; E. C. Brown	175
Queen Johanna De Kol Mechthilde; Geo. Burmeister, Waukesha, Wis.	135
Piebe De Kol Clothilde 2d; Brown Bros., Hartford, S. D.	235
Clara Segis; Brown Bros.	345
L. V. Korndyke Beets De Kol; Brown Bros.	210
Uneeda Korndyke, aged cow; Brown Bros.	365
Denver Ormsby De Kol 2d; Brown Bros.	215
Uneeda Korndyke Belinda; Brown Bros.	265
Uneeda Korndyke Dessa; Brown Bros.	260
Pearl Gerben De Kol Onyx; Brown Bros.	145
Topsy Pauline De Kol; Brown Bros.	170
L. V. Ormsby Concordia Pontiac; Brown Bros.	200
Uneeda Korndyke Delma; Brown Bros.	335
Uneeda Korndyke Dinah; Brown Bros.	275
Johanna Galaxy Korndyke; Brown Bros.	255
Rosalind Veeman; Brown Bros.	155
Uneeda Korndyke Doris; Brown Bros.	255
Auke De Kol Veman; Brown Bros.	215
Maid Korndyke Pauline De Kol; Brown Bros.	165
Piebe Pride 5th; Brown Bros.	210
L. V. Ormsby Cornucopia Korndyke; Brown Bros.	200
Plush Friend Aaggie; Brown Bros	205
Uneeda Korndyke Doddy; Arthur D. Cornell, Hebron, Ill.	300
Maid Korndyke Johanna De Kol; Arthur D. Cornell	100
Wase Hengerveld De Kol 2d; Ellingson Bros., Wausau, Wis.	220
Tyranena Pontiac De Kol; Ellingson Bros.	210
Inka Netherland Clothilde Ida; Ellingston Bros.	200
L. V. Pietertje Pontiac Clothilde; Emerson Demerit, Lake Mills, Wis.	210
Mutual Parthenia of Rock; Everson Demerit Co.	145
Cora Alban De Kol; Everson Demerit Co.	145
No. 42, daughter of Ivy Ormsby De Kol, heifer; Frank Everson, Lake Mills, Wis.	250
L. V. Gerben Pontiac Korndyke, heifer calf; William Everson & Sons, Lake Mills, Wis.	80
No. 43½, heifer calf, one day old, daughter of Ivy Ormsby De Kol; Dr. H. B. Faville, Chicago, Ill.	325
Uneeda Korndyke Agnes; F. E. Getzelman, of Hampshire, Ill.	500
Mutual Boelyn Gem; Fred Gurr, Lake Mills, Wis.	160
Mutual Ridgewood of Rock, Fred Gurr	245
Ivy Ormsby De Kol; R. E. Hager, Alagonquin, Ill.	975
Uneeda Korndyke Daffy, R. E. Hager	320
Oumeilo Piebe Colantha De Kol; R. E. Hager	150
Bright Jewel Tirania De Kol; R. E. Hager	155
Maid Beechwood De Kol; R. E. Hager	125
Uneeda Korndyke Czarine; N. A. Hanson, Galloway, Minn.	290
Daisy Nephele De Kol; N. A. Hanson	135
No. 44; Harvest Farms, Mayville, Wis.	200
Tyanena Pontiac Cyclamen; Harvest Farms	280
Three Spot Clothilde; Aaron Keuler, Helenville, Wis.	170
Madrigal Josephine Gerben; Wm. Parsons, Ft. Atkinson, Wis.	290
Fernwood Mutual De Kol; H. E. Reddelein, Oconomowoc, Wis.	355
Uneeda Korndyke Bonanza 2d; Archie Reid, Jr., Janesville, Wis.	235
Molly Netherland of Edgetown; John C. Howard, Russell, Ill.	265
Piebe Pride 4th; W. H. Jones, Juneau, Wis.	315
Heikjje Ormsby De Kol 2d; W. H. Jones	175
Uneeda Korndyke Dusky; W. F. Kaschube, Ripon, Wis.	255
Uneeda Korndyke Deborah; W. F. Kaschube	250
Uneeda Korndyke Beatrice; W. F. Kaschube	285
Ruhamah Clothilde Segis; W. F. Kaschube	270
Fobes Johanna Pauline; John J. Kehl, Prairie du Sac, Wis.	175
Belmont Belle Natsey Baker 2d; Aaron F. Keuler	225
Anna Clothilde Hengerveld; H. S. Royce, Tacoma, Wash.	220
Coloma Johanna Nig., H. S. Royce	225
Ava Colanthus 2d; H. S. Royce	300
Johanna Inka Prilly Pet; H. S. Royce	220
Lady Reka Hartog; H. S. Royce	255
Uneeda Korndyke Daisy; C. B. Rutherford, Lake Mills, Wis.	285
Nazli Johanna Pauline; C. S. Shimming, Jefferson, Wis.	245
Uneeda Korndyke Blanche; A. E. Tulledge, Oakfield Wis.	205
Uneeda Korndyke Beulah; A. E. Tulledge	225
No. 8½, heifer calf; A. E. Tulledge	200
Nina Bobbet 2d; N. A. Hanson	205
Uneeda Korndyke Beatrice 2d; N. A. Hanson	235
Johanna Prilly Hengerveld; N. A. Hanson	230
Freda Alban De Kol; N. A. Hanson	135
Senora Piebe of Edgetown; N. A. Hanson	225
Helene Veeman of Edgetown; N. A. Hanson	175
Ruhamah Clothilde Burke, N. A. Hanson	290
Johanna Piebe Melchior De Kol 2d; N. A. Hanson	140
Lady Reka Mooie 4th; F. B. Fargo	385
Mutual Beechwood of Rock, Fred N. Turner, Hebron, Ill.	155
Mutual Gerben Clothilde; Fred N. Turner	150
Miss Pietertje Clothilde; Max A. Witte, Watertown, Wis.	210
Norene Netherland; H. A. Yates, Belvedere, Ill.	315
Queen Echo 2d's Canary; H. A. Yates	270
One aged cow, name of buyer unknown	450

BULLS.

No. 94½, bull calf, son of Queen Johanna De Kol Mechthilde; S. H. Bird, South Byron, Wis.	40
King Colanthus De Kol Segis 2d; W. J. Stabb, Waukesha, Wis.	155
Sir Longfield Schultz; M. F. Peck & Son, Marshall, Wis.	105
King Colanthus De Kol Segis; George H. Sayre & Ed. Felbel, Jefferson, Wis.	660
Korndyke Hengerveld De Kol 12; John Seyaner, Belvedere, Ill.	155
L. V. Pet Ormsby Korndyke, bull calf; Wm. Everson & Sons	85
L. V. Korndyke Ormsby, bull calf, Wm. Everson & Sons	50
Sir Ormsby Pontiac Korndyke; F. E. Getzehman	1,125
No. 14½, bull calf of Korndyke Hengerveld De Kol; N. A. Hanson, Galloway, Minn.	95
Sir Aaggie Ormsby Hengerveld; E. Fargo	290
Quouque Moon Hamilton; Harvest Farms, Mayville, Wis.	255
Korndyke Hengerveld Artis 20th; H. G. Kohl, Mt. Horeb, Wis.	125
No. 96; Kirkpatrich, Lime Ridge, Wis.	40

SUMMARY.

104 head	$24,625;	average..$236.78
91 females	21,445;	average.. 235.66
13 males	3,180;	average.. 244.61

The Thurman Sale.

One of the largest crowds seen at a sale in southwestern Iowa, in many years was present at the dispersion of the Short-horn and Shire herds of A. G. Thurman, at Blanchard, on October 30th. The sale was in all respects a good one from start to finish. The Shires and Percherons made an average of $363 and the Short-horns averaged $141 on everything, including calves. Mr. Ted Dunbar, Clarinda, Iowa, was a heavy buyer and secured most of the Shires as well as the old bull, Master B. Mr. W. M. Golding, Maryville, Mo., secured the very best of the cattle, getting Orange Bud, a daughter of the great Ringmaster at $285 and Birdie Gloster at $195. Ramsden's Missie, a well-bred Cruickshank Missie, and one of the best cows, went to J. W. Barber, Skidmore, Mo., at $220, while H. C. Chandler got Dora of Woodbine at $215. Col. Harve Duncan cried the sale and did splendid work. Below we list those lots that sold for $100 and above:

Keota Teddy 6882, July, 1900; Steve Belding, Northboro, Iowa	$400
Hector Prince 91431, June, 1911; J. S. Athen, Hamburg, Iowa	380
Beechnut Flower, 1906; Ted Dunbar, Clarinda, Iowa	380
Bonnie Royal, April, 1911; Ted Dunbar	475
Rosa, Ted Dunbar	470
Lady Lawrence, June, 1904; Ted Dunbar	295
Pride of Cromwell, May, 1908; Economy Stock Farm, Shenandoah, Iowa	225
Peach Blossom, May, 1913; Ted Dunbar	210
Evalena 4th, June, 1909; Ted Dunbar	495
Lady Betsey, June, 1910; Elson White, College Springs, Iowa	350
Clarinda Jen, July, 1910; W. M. Golding, Maryville, Mo.	315

SHORT-HORNS.
BULLS.

Master B., 303462, calved January, 1907; Ted Dunbar	210
Ramsden's Cumberland, calved January, 1913; V. L. Gaston, Tabor, Iowa	160
Master D., calved November, 1912; Chas. Steele, Blanchard, Iowa	120
Woodbine Boy, calved April, 1913; Geo Webster, Blanchard, Iowa	125
Duke of Woodbine, calved January, 1913; John Luhr, College Springs, Iowa	110
Bull calf, 8 months; A. O. Stanley, Sheridan, Mo.	165

FEMALES.

Red Rose, calved July, 1910; L. T. Folk, Essex, Iowa	170
Woodbine Lady, calved August 1909; N. I. Staples Burlington	

LANDS AND HOMES

Nevada

is calling you. The pioneer mineral state in the country has thousands of acres of good farming land. Subject to dry farming or irrigation by wells. Your markets are at home. The miners of Nevada buy the best and pay the highest prices. There are 100,000 acres in Elko County at prices from $2.50 to $12.00 an acre Write and I will send you free information regarding this land

B. A. McALLASTER,
Land Comm., 803D Flood Bldg., SAN FRANCISCO, CAL.

RANCH OF 930 ACRES

WITH 8-room house only 3 miles of town in Franklin Co., for only $30,000, worth $50,000. We also offer a good wheat farm. Address **BUCKEYE AGENCY, OTTAWA, KANSAS**

SOUTHERN MINNESOTA CORN LANDS

GROWS any grain Iowa farmer grows. Improved land $65 to $125 per acre. Address **McCadden & Allison, Fairmont, Minnesota**

OUT THEY GO $2 AN ACRE DOWN

And then you can pay for one of our 160 or 320-acre farms out of the proceeds of one-half of the crop raised yearly until the farm is paid for. Come on out with the down payment and select your land—20,000 acres to select from. Prices $15 to $30 an acre and good land. Where can you beat these terms for such rich land? Write for facts or come right to our office now. Wm. H. Brown Co., Mandan, Morton Co., North Dakota, or Mott, Hettinger Co., North Dakota, or 5 N. LaSalle St., Chicago. Get in while land is cheap.

Land Opportunity

is for the man who carefully investigates before he buys. There are many large and small tracts of good land along the Union Pacific System Lines. Your land opportunity is among them. I will give you free authentic information concerning any of these tracts if you will write to me. It will pay you to investigate before you move.

R. A. SMITH,
Colonization and Industrial Agent, Union Pacific Railroad Co., Room 1188, Union Pacific Building.
OMAHA, NEBRASKA.

STATE LAND SALE IN NEW MEXICO

ON December 8th, 1913, there will be sold at the court house in Deming, New Mexico, **18,000** acres of land. Practically all the land will be sold in tracts of six hundred forty acres. The land is in what is known as the shallow water belt, and irrigation by pumping is being operated successfully on lands in that vicinity. The terms of sale are cash, or ten per cent of the highest bid, the balance divided into thirty equal annual payments, with four per cent interest on all deferred payments. **Robert P. Ervien, Commissioner of Public Lands, Santa Fe, N. Mex.**

STOCK CATTLE RANCH FOR SALE

STOCK Cattle Ranch in Central Oregon, 2,000 acres of irrigated land. 700 acres now in alfalfa and other crops. Main canal running three miles through place. 450 Short-horn and other mixed stock cattle, with 40 horses and other stock. Finest prospect for stock ranch in the West. Plenty of outside range. Mild winters and fine climate. Feed about six weeks. Ranch fenced with woven wire. 10 miles from railroad. Ranch capable of caring for 2,000 head per year and selling off 500 head per year at an average selling price of $90 per head. F. S. Stanley, 515 Railway Exchange, Portland, Ore.

FOR SALE---Montana Land IN THE FAMOUS GALLATIN VALLEY

1120 ACRES, three miles from town on two railroads: 750 acres in cultivation: decreed water rights: improvements cost over $30,000.00. An ideal proposition for stock or dairy farming. Attractive terms and prices. For full information, address **H. H. KEYES, HELENA, MONTANA**

Best Bargain in Kansas

356 ACRES, 5 miles from Emporia, all best river bottom, 250 acres fine alfalfa, balance corn, some timber, fine buildings. Owner sold over $12,000 off this place this year. Old age is only reason for selling. Price $125 per acre. Write for our list of alfalfa lands and ranches. Willis & Co., Emporia, Kan.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

FOR SALE, 1,000 FARMS

GOOD soil, water and climatic conditions. Good schools, churches and railroad facilities. High-class stock country. All year round grazing. Will give first purchaser in your territory selling contract, paying 75 per cent purchase price. Maps, bookiets. Write **Marbury Lbr. Co., Marbury, Ala.**

FOR SALE Rusk Co., Wis., cutover hardwood lands; wholesale prices; any sized tract, fertile clay silt loam soil, in dairy and clover belt; good markets, schools, churches, easy terms. Write for map and information. Arpin Hardwood Lumber Co., Grand Rapids, Wisconsin

SOUTHEASTERN KANSAS

IS the place to go for good homes, low prices and easy terms. Send for full information. Address The Allen County Investment Co., Iola, Kansas

Farm For Sale We have for sale three good farms which we believe are the best bargains in Weld county, Colorado, that must be sold. Write for description. Farmers National Bank, Ault, Colorado.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

SETTLERS wanted for clover lands in central Minnesota. Corn successfully raised. Write Asher Murray, Wadena, Minnesota.

SALE AND RENT good improved farms, Southwestern Minnesota. Close to Iowa. Address Owner, Box 284, Mapleton, Minn.

ALL KINDS OF FARMS FOR all kinds of people. Free Catalogues. Hall's Farm Agency, Owego, Tioga County, New York.

280 ACRES, improved, Freeborn county, Minnesota, $90.00 per acre Jas. Pickett, Emmons, Minn.

Junction, Iowa 130
Oaklawn Jenny, calved May, 1906; Howard C. Chandler, Essex, Iowa 130
Birdie Gloster 3d, calved August, 1905; W. M. Golding, Maryville, Mo. 195
Heifer, 10 months, Economy Stock Farm 100
Dora of Woodbine, calved September, 1911; H. C. Chandler 215
Gazelle 7th, calved June, 1911; Owen Lowe, Tarkio, Mo. 130
Oaklawn Gazelle, calved July, 1906; Geo. Webster, Blanchard, Iowa.. 135
Orange Bud, calved December, 1910; W. M. Golding 285
Cumberland Lass, calved April, 1913; John Spears, Burlington Junction, Iowa 150
Red Gazelle, calved August, 1909; J. A. Walkinshaw, Blanchard, Ia. 145
Birdie Gloster, calved May, 1912; Elmer Lundberg, Essex, Iowa .. 180
Heifer, Chas. Steele 105

The Peterson Duroc Sale.

A splendid crowd attended the sale of J. P. Peterson, at Herman, Neb., on October 27th, and he sold forty-one head at an average of $35.30. It was one of the good sales made in Nebraska this fall. The top was No. 14, a son of The Brave 13417, and he went to Robert Bros. & Reese at $70. He was an outstanding good pig and was a bargain at that figure. The offering was in nice breeding condition, but was not loaded with fat. It was a very satisfactory sale and Mr. Peterson was well pleased with the outcome. Col. E. Z. Russell cried the sale and was assisted in the ring by Colonels Jensen and Bross. We list below those selling for $25 and above:

0. John Hansen, Herman, Neb. $35
1. Lee Bovee, Craig, Neb. 52
2. J. B. Peek, Tekamah, Neb..... 25
3. J. T. Oberst, Herman, Neb..... 41
4. Soren Jensen, Herman, Neb..... 25
5. R. P. Witherow, Tekamah, Neb. 27
6. B. E. Oberst, Herman, Neb..... 35
7. James Lowe, Herman, Neb..... 52
8. G. F. Hurrell, Craig, Neb..... 58
9. Mike Wetson, Blair, Neb..... 35
10. W. D. Hamock, Tekamah, Neb.. 43
11. J. F. Moravee, Fontanelle, Neb. 45
12. Bert Loftus, Herman, Neb..... 31
13. H. A. Platts, Arlington, Neb.... 30
14. Robert Bros. & Reese, South Omaha, Neb. 70
15. John Jensen, Craig, Neb..... 40
17. M. C. Luther, Hooper, Neb..... 26
18. Carey Cameron, Herman, Neb... 31
19. Carey Cameron 31
20. Carey Cameron 31
21. John Cameron, Herman, Neb.... 46
22. Joseph Lyons, Herman, Neb.... 36
23. Wm. Hansen, Blair, Neb..... 34
24. A. J. Robert, Herman, Neb..... 29
25. John Patrick, Ute, Iowa..... 48
27. John Oberst, Herman, Neb..... 31
28. John Cameron 27
30. Carl Hansen 36
34. Virgil Patterson, Craig, Neb..... 25
35. Julius Ziegler, Ft. Calhoun, Neb. 26
36. A. G. Vought, Herman, Neb..... 25
37. Joe Thiefsldt, Herman, Neb..... 65
38. James Broderson, Herman, Neb. 38
40. John Hansen 56

McCullough's Poland China Sale.

The sale of Poland Chinas made by O. J. McCullough, of Clarks, Neb., at Central City, Neb., on October 28th, encountered the first real blizzard of the season. The extremely stormy day kept many from the sale and resulted in a lower average of prices than would otherwise have prevailed. The offering contained some very fine specimens, but the most of them were not as well grown and developed as they should have been to have sold to the best advantage. Thirty head were sold at an average of $27.65. Col. H. S. Duncan did the selling. Those selling for $30 or more are listed:

1. H. G. McIntosh, Alda, Neb.....$50
2. T. J. Place, Wolbach, Neb..... 40
4. C. O. Calvin, Cadams, Neb..... 37
5. Ed Hensley, Central City, Neb... 41
8. Ellsworth Ball, Albion, Neb..... 41
20. Chas. Graw, Bennington, Neb... 55
31. Wm. Glenn, Wolbach, Neb..... 34
33. John M. Belcher, Raymore, Mo.. 39
Extra Sow, Butcher & Van Noy, Central City, Neb..... 51

TRIMMING GRAPE VINES.

November is the month for this very necessary work. Trimming is work which must be done if you would have large crops of good fruit. Anyone may raise small crops of poor grapes without any attention to the rules of treatment which give the best results. But the man who is ambitious for the best results from his labor and investment must trim.

Nature produces an immense amount of wood—she overdoes the business of preparing the foundation for her crop of fruit. If this surplus wood is left it will produce small, imperfect clusters of half-sized fruit. But when by proper use of the pruning knife you force nature to concentrate her efforts, you will be rewarded by perfect clusters of large, fully-developed grapes, and those well-grown clusters will be found to total in weight twice as much as the scattered, ill-nourished bunches of the untrimmed vines.

To one who understands the growing of grapes, it is absolutely painful to ride through the country, and mark the usual farmer's vineyard. It is a wearying suggestion of unrealized possibilities—of opportunities gone to waste. For whenever a dollar's worth of grapes are gathered from neglected vines—proper care would have secured three dollars' worth. Oh, farmers and gardeners! wake up and save that possible extra two dollars.

Vines which have been allowed to grow at will for eight or ten years, need an entirely new deal. The old wood should all be cut off near the ground. Save the new sprouts which may have started from the root—or anywhere near the roots. Remember that young wood means good fruit. If there are no strong new shoots cut out the old wood anyway. The new shoots will come next spring, but, of course, you will be one season without fruit. Hence the need of saving the new shoots when you have them.

Three or four feet in length is enough to leave of this new wood. Bear in mind that the nearer the earth you grow your fruit the better it will be. If there are plenty of strong shoots leave only three. Three is enough for one root. These, when the growing season comes again, will throw out each, three or four laterals, or fruit spurs, and your vine will produce from twenty to thirty good clusters. That is enough, and you will have more fruit, by weight, than in fifty dwarfed clusters with eight or ten grapes per cluster.

In case of young vines, or vines which have been trimmed so that there is no accumulation of old and useless wood, remember the rule that the fruit laterals will come from the first three or four buds, on the new growth. Two or three stems, main stems to the root is enough, and do not let them branch out too much. Four or five branches of bearing wood to the stem is as much as you should leave. Cut away—show no mercy—clear out the rubbish. Fit the vine to the trellis. A four-wire trellis, the top of which is six feet from the ground, is tall enough.

And your vines, if properly trimmed, will, when tied up in the spring, not project above the trellis, and no more than properly fill it when spaced so as to be six inches apart. And keep them so every year, cutting the old wood without mercy and constantly conserving the new sprouts. Now this is a general outline of the way to grow grapes. And it is the only way to grow big clusters of fine grapes, that is, good and profitable crops.

WORKING FOR BETTER TEST

To the Editor of The Homestead:

A young farmer I met yesterday told me with a good deal of pride in his face and voice that the man at the creamery told him recently that the average test of his eighteen cows at the time of last testing, according to the Babcock machine, was .53. This was, as the creamery man added, the best test of any dairy which sent milk to that creamery. No wonder the young man felt a good deal elated. He was coming to see some of the results of his work for a term of a number of years.

It had taken that young man a long time to bring his dairy up to the point where the cows would test 5.53. Think what this means: a composite test of the whole eighteen cows in the dairy, and not that of some particular one or two. There no doubt were cows in that herd which alone would test 6 and, perhaps, 7 per cent. For the farmer still has some grades in his stable. So that the report speaks very well for the dairy as an entirety.

The way it was done was to get first a full-blooded bull and two or three heifers of the same quality and breed. These were introduced into a dairy of pretty good grades, the selection of a good many years. It took time and patience to work up to that standard.

Nor ought I to say that this was the standard the young man had set for himself. I am sure that he never thought, "When I reach 5.53 I will rest on my oars; that will be as high as I shall care to go." By no means. I know him well enough to know that nothing else than the very best possible, will ever satsify him.

As the calves came on that farm, they were carefully selected, only the best grades being retained for the herd. The thoroughbreds were picked out with the same care, realizing that not all animals which are eligible to be registered as thoroughbred stock are worth keeping on the place.

What a satisfaction there is in working up in this way! To see one's herd coming to be a little better and a little better every year, while still more satisfactory things seem to lie ahead, is one of the farmer's highest rewards. The dollars and cents naturally follow, and of course these are what we all like to see; and yet I do not feel that money ought to be the dairy farmer's highest ambition. That would be to reduce life to a pretty low level. It ought to be the aim of every farmer to leave the world a little better than it was when he came into it, particularly that little circle of it in which his influence is cast. That is one of the richest returns of farming.

E. L. V.

CORN SHOWS HELP ALL.

To the Editor of The Homestead:

Corn has been called "king" and it is without question the greatest of Missouri's crops; but strictly speaking the term "Agricultural Exhibit," or "Agricultural Show," would be better than "corn show." Wheat, rye, oats, cowpeas, alfalfa, clover, timothy, and a host of other products are just as much an item of successful farming and should not, and do not fail to come in for their share of attention. When we say corn show then we mean a general display of farm products.

While business men and other interested persons usually subscribe premium funds generously, premiums are not the best part of the show. The principal benefit comes from seeing the displays. One neighbor sees what another has produced, and the man who has not done so well resolves that neighbor Jones cannot beat him raising corn, wheat or potatoes, and that he will show him next year. An agricultural show where the premiums are awarded by a competent judge is a good place to go, to form ideas as to what the best really is; or, it is a good place to go to exchange old ideas for new ones. Sometimes it restores confidence in one's own locality. For instance, during the Cape County Fair, numerous visitors remarked that they never thought it possible for such corn and wheat, clover, alfalfa, and other crops to grow in such a season as the present one had been. Every one went away feeling better.

Such an exhibition besides being a great object lesson and a great booster for better crops often serves as a sort of clearing house for good seed. Many a bushel of good seed corn and wheat has been bought or sold at a grain exhibit. Whenever we have an opportunity to brush up against our neighbor we usually learn something, and, no doubt, the same rule applies to him. The benefit is not purely individual, for whole communities often are better for it.

Only four years ago the little village of Appleton, Mo., held it's first corn show. There were exhibitors in plenty who thought that the longest ear of corn was the best, no matter if it had only ten rows on it. They didn't think much about the per cent of corn to cob, of maturity, uniformity and a host of other important points. In the short space of time that elapsed since that first show things have changed materially. The visitor at their show will now find nothing but first-class entries. Entries from Appleton were conspicuous winners at the larger shows in Jackson and Cape Girardeau last year. The same is also true in their livestock classes, where neighbor competes with neighbor and all are benefited. The man who used to say, "I've got twice as good stuff as that at home" is finding that his audience isn't very appreciative.

This is the season for the fall shows and there will be many of them during the next three months. Make up your mind now to exhibit one or several things. Whether or not you get a premium you are sure to be the winner in the long run.

C. M. McWilliams.
"County Man," Cape Girardeau Co., Mo.

REMOVING THE OLD BARK.

There are various ways of fighting insect pests, such as spraying, destroying the rubbish in the orchard, picking the egg covers from the trees, and scraping the trees to remove the insects hiding in the old bark. When apple trees get old enough to accumulate old dead bark, its capacity for concealing insects becomes enormous, and the numerous cracks, fissures, and crevices are ideal places for the deposition of eggs.

When the growing season is ended and the trees are at rest is the right time to destroy these traps of the enemy. You may do it by scraping the tree, and so removing all decaying bark, and with it all the seeds of future mischief.

You should get your blacksmith to make you a scraper with a curving blade to fit the shape of the tree trunk. Of course, any strong, heavy knife blade will do the work, but the more suitable the implement the more rapid the work.

Spread an old sheet about the tree trunk, to catch the scrapings, for these must be burned to destroy the eggs and dormant bugs and worms. Scrape all the crevices thoroughly, but not in such a way as to injure the new bark.

Go over the entire trunk of the tree, and carry on the work upon the main branches, especially where layers of dead bark in the crotches furnish ideal shelter for the foe.

The old decaying bark is never found upon the smaller branches. Examine any old apple tree, and note the mass of rough, broken bark, and then think, if you can, of any possible better breeding place for the insect enemies of the fruit.

It is estimated that by removing this and destroying it, with the hosts of eggs which it carries, we can lessen our insect troubles for the coming season by at least one half. And not only do we remove 50 per cent directly, but we render the remaining nuisance, 50 per cent, such as we cannot quite get at, more liable to our spraying efforts. We make it so that the poison can reach it.

The worms hidden by the old bark are like an enemy in ambush. We may shoot in the general direction, but, not seeing the foe, we are not likely to hit him. But if his cover is removed we can spot him. Let it be understood that this method of insect fighting only applies to old trees. Trees only eight to twelve years old have smooth bark and there is nothing to scrape away, consequently no hiding place for the foe. So this rule applies only to the old trees. And yet there is something to do for the man who has only young, smooth-barked trees in his orchard. Let him take his stepladder and go over the treetops and pick off all the leaf tufts, which are clinging there. They will be found to be glued together, and are practically tents, shelter tents for the insects, which will emerge from those germs to feed luxuriously upon the tender buds and young fruit of next May.

When you have done this, do not think that you have done all. But in March cut strips of sticky fly paper and tie them about the tree trunks about three feet from the ground. Tie them in such a way that the sticky side will be down and the strip light at the top and loose at the bottom. This makes a trap which will catch the curculio and other bugs and worms as they ascend the tree. They will gladly crawl under this sheltering strip, making it a sure death trap. That none may find an exit upward, put a little loose, soft grafting wax about the upper edge of the paper.

There are various modifications of this plan. Some use only strips of cloth, and others only soft grafting wax. But we like the fly paper.

SAVE MONEY
2 dozen Canvas Gloves for $1
We pay the postage
Largest and heaviest gloves on the market. Direct from factory. Save middleman's profit. Enclose a $1 bill with order.
THE UNION GLOVE CO., Dept. A MARION IND.

BUY FROM OWNERS
I HAVE several improved farms in the famous Red River Valley, close to towns, schools and creameries. Will sell these farms at low price, long time, easy terms. Will furnish all the milch cows and hogs that can be handled on these farms, and let you pay for same from proceeds. Five hundred dollars will handle 160 acres. **Look This Up, Mr. Renter,** also wild lands in Wisconsin and Minnesota.
S. D. WORKS,
406-6 Commerce Bldg., St. Paul, Minnesota.

CURE YOUR OWN HAMS AND BACON
THE Dansch Cure enables every farmer to cure his own meats. Skilled experience given our patrons. **PERFECTION PORK PRODUCTS CO., WATERLOO, IOWA.**

GENERAL machinist, model makers, and experimental work a specialty. Our staff of skilled mechanics assist customers to develop, simplify and perfect ideas, Patents and Inventions for manufacture. Regal Model & Tool Works, 130 S. Clark, Chicago

WANTED at once, 10,000 sacks of corn husks; 25c a sack or 50c per pair; we pay the freight charges on car lots. Mexican Pete's Tamale Co., Office suite of President, 1028 1st St., Des Moines, Ia.

DATES FOR LIVESTOCK SALES.

Poland China Swine.

Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheyedan, Iowa.
Jan. 24, Beall & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Iowa.
Feb. 2, Coleman Bros., Ithaca, Neb.
Feb. 3, Theo. Martin, Bellevue, Iowa.
Feb. 4, E. C. Forest, Miles, Iowa, (sale at Lyons, Iowa).
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, E. W. Kreischer, Mt. Vernon, Ia.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Iowa.
Feb. 6, Williams Bros., Villisca, Iowa.
Feb. 6, John I. Dripps, Sprinville, Iowa.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb, 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, Henry Fesenmeyer, Clarinda, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 18, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 19. C. W. Phillips, New Sharon, Ia.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21. O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Iowa.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Nov. 25, W. M. Sells, Indianola, Iowa.
Dec. 18, H. E. Browning, Hersman, Ill.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 20, Wm. Zimmerman & Sons, Mc Nabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, Lake City, Ia.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, B. F. Danford, Ord., Neb.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Iowa.
Feb. 5, Swan & Ellis, Indianola, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 10, M. E. Merfield & Sons, Greene, Iowa.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Koenig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.
Feb. 24, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.

Holstein-Friesian Cattle.

Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Short-horn Cattle.

Nov. 19, C. E. Gibbs, Klemme, Iowa.
Nov. 20, Closing-Out Sale, A. H. Metier, Weldon, Iowa
Nov. 25, J. W. McDermot, Kahoka, Mo.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. T. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, Geo. H. Burge, Mt. Vernon, Ia.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.

Hereford Cattle.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Jan. 14, Henry Reimers, Gladbrook, Ia.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9. B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Imported Shire Mares.

Dec. 9, J. A. Sage, Ankeny, Iowa.
Dec. 11, Trumans' Pioneer Stud Farm, Bushnell, Ill.

Clydesdale Horses.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.

DATES FOR LIVESTOCK SALES.

Aberdeen Angus.

Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201 Washington Building, Madison, Wis.

FIELD NOTES.

On page 41 K. Brunia, Pella, Iowa, Offers for sale genuine Welsh and Shetland ponies.

C. F. Goodsell, Canby, Minn., has an advertisement on page 22 of this issue offering Scotch Collie puppies for sale.

E. Crabs, Aledo, Ill., can supply Duroc Jersey boars and gilts at reasonable prices as per his announcement on page 47.

For Tamworth swine of prize-winning blood lines write C. C. Roup, Kalona, Iowa, as per his advertisement on page 46.

A big-type Poland China boar pig of excellent breeding can be purchased of B. F. Marmion, Farmington, Iowa, at farmers' prices. See page 45.

F. T. Quire, Sully, Iowa, can supply Hampshire boars of the same breeding as his silver cup winners at Des Moines in 1912 at $35 each. See page 44.

J. B. Heisel, Grinnell, Iowa, is making special prices on Poland China boars and gilts as well as 1913 fall pigs on page 45. Write him your wants.

A registered Red Polled bull, two years old, is offered for sale by K. Brunia, Pella, Iowa, whose advertisement will be found on page 43. A reasonable price will be quoted.

A good two-year-old and a yearling Percheron stallion are advertised for sale by H. D. Clore, Lucas, Iowa, for $1,000 for the two on page 41. He also offers some good Hereford bull calves for sale.

McCullough & Tumbach, 138 N. Main St., St. Louis, Mo., advertise on page 15 that they pay highest prices for furs and furnish free price list and shipping tags. Write to the address named.

Immune Chester White hogs are advertised for sale by C. F. Sealock, Neola, Iowa, on page 46. He offers a good yearling for $40 and spring boars for $25 each. Write him your order at once.

Nicely bred and good individual Berkshire spring boars are advertised for sale by Fred Divelbess, Logan, Iowa, on page 43 of this issue. These animals are cholera immune. Write Mr. Divelbess for prices.

John I Dripps, Springville, Iowa, is offering yearling and two-year-old Shropshire rams and a fine lot of big-type fall and spring boars of the best big-type Poland China families at the right kind of prices. See page 44.

For Duroc Jersey boars of prize-winning ancestry write M. E. Merfeld & Sons, Greene, Iowa, as they have bought nothing but descendants of prize winners and can supply that kind to their customers. See page 46.

Howard Niswander, Kinross, Iowa, is in position to supply really high-class Hampshire boars sired by Messenger Boy, Dudie and others to those in need of this class of stock. His prices are right and he has the goods. See page 44.

Menaugh Bros., Gardner, Ill., have a fine lot of Duroc Jersey boars of spring and fall farrow for sale. They also have Polled Durham bulls and heifers of the most approved Scotch breeding that they are pricing very reasonable. See page 47.

J. A. Beaumaster, Elma, Iowa, has a fine lot of big-type, heavy-boned Poland China boars of spring farrow sired by Long King by Long King's Equal and O. Wonder, a grandson of A Wonder. Write him for prices. See advertisement on page 45.

Galvanized or painted roofing like that illustrated in the advertisement on page 9 is sold to readers of this paper direct from the mills at mill prices. A free sample and price list may be obtained by addressing a request to the Sykes Metal Lath & Roofing Co., 520 Walnut St., Niles, Ohio.

J. H. Cope, Carlisle, Iowa, advertises on page 40 that he wishes to sell a few Poland China spring boars and to sell them quick. They will weigh 250 pounds or more, are in perfect health and much better than average pigs that will be sold at the prices he quotes on them. Mr. Cope wants to get them out of the way of his fall crop of pigs and for that reason will make prices that cannot fail to interest buyers. He has recently purchased a new herd boar from Marshall, of Monroe. This is a spring pig by Giant King, dam a Jumbo sow. The pig is one of size and has quality as well. Mr. Cope looks for good results on his high-class brood sows. For prices on pigs above referred to write to J. H. Cope, Carlisle, Iowa.

Did you write J. F. Kerns, Holstein, Iowa, for one of those immune Duroc Jersey boars he is advertising for sale on page 47? He is pricing them at $25 and $35. Send him an order at once and mention The Homestead.

Did you order one of those big, lusty, big-boned Poland China boars from James Cockerton, Whiting, Iowa? He offers twenty head of big, spring boars and a splendid yearling that will make a 1,000-pound boar when matured. Read his advertisement on page 45.

Profit Farm Boilers which are advertised on page 9 have been in use for so many years that they have become a necessity on well-regulated farms. Particulars concerning them may be obtained by writing for circular P, addressing request to D. R. Sperry & Co., Batavia, Ill.

One November 11th, Hugh M. Ficke, Long Grove, Iowa, will sell thirty-six Duroc Jersey boars at public auction. Mr. Ficke breeds for size, heavy bone and smoothness and he will sell boars in this sale as large as you will find anywhere in the country. See advertisement on page 46.

Slingerland's Correspondence School of Music advertised on page 26 provides musical education on the violin, cornet, guitar or other instrument. For particulars with reference to the free instrument write to Slingerland's Correspondence School of Music, Dept. 44, Auditorium Bldg., Chicago, Ill.

August Post, Moulton, Iowa, advertises Poland Chinas on page 44. He is offering fifteen boars and fifteen gilts of spring farrow which are the tops of his season's crop of fifty head. In order to reduce the number on hand quick, he will make some remarkably low prices. See advertisement and write to the address above given.

In a new advertisement on page 40 H. Crabtree informs our readers that he has sixty head of Poland China pigs of both sexes of April farrow and that he will sell them at very reasonable figures. These pigs are cholera immune, having been vaccinated, and are in perfect health and thrift. For prices write to H. Crabtree, Baxter, Iowa.

H. F. Funke, whose advertisement of Short-horn cattle has been a prominent feature in our columns, recently advises us that he has now sold all his cattle except two cows and one bull. These are described in the new advertisement on page 43. They will be sold at very reasonable prices in order to clear up the lot. Address inquiries to H. F. Funk, Greenfield, Iowa.

I. J. Wilson, West Branch, Iowa, is offering to sell boars sired by Wilson's Crimson Wonder and out of sows sired by Wilson's Defender, a litter mate to the grand champion, Disturber, at $25 each while they last. Mr. Wilson guarantees satisfaction and if you send him $25 for a boar you will get your money's worth. See page 46 and when writing kindly mention The Homestead.

Twenty head of big-type Poland China boars are offered for sale by J. M. Sheehan, Stuart, Iowa, who advertises them on page 40. These pigs are of popular lines of breeding, their sires being Long King Wonder, Long King's Equal, Sterling Giant and Choice Look. Much size may be expected from these pigs because their dams are 700 and 800-pound sows. Reasonable prices will be quoted on them.

Florida East Coast Railway traverses the most desirable portions of that state and encourages the settlement of farmers who are interested in fruit growing, trucking, poultry raising, bee keeping, and like departments of farming. A new book giving a great deal of information entitled "Facts About Florida" may be obtained without charge on application to Louis Larson, Room 122, 109 W. Adams St., Chicago, Ill. See page 32.

Orlando Jacobs & Son, New London, Iowa, write as follows in regard to their Berkshires: "The Berkshire boars and sows we offer for sale are as well bred as will be found and are a nice, thrifty lot. They have been fed with a view of developing stock for breeding purposes and will weigh 140 to 200 pounds. They carry no surplus fat and are in a condition to do the buyer good. We believe they will please." See advertisement on page 43.

Singmaster & Walker, Sioux City, inform us that they are having good sales, among the more recent ones being a fine two-year-old draft stallion to a South Dakota farmer and a pair of Percheron mares to an Iowa farmer. They have some extra good stallions and mares at Sioux City, many of which were imported as yearlings. For this reason they can make prices less than if they were imported at a mature age. See page 42.

We desire to call attention of readers of this paper to the advertisement of Hart Bros., Osceola, Iowa, on page 41, who are among the best known importers of Percheron and Belgian Stallions and mares today in the West. Their fall importation arrived on October 8th, and were personally selected by Warren Hart, and if he ever bought a good string of horses he certainly got them this time. The Percherons are all blacks and grays. While the Belgians are roans and bays, and everything they brought are two year olds and some of these will weigh 1,900 pounds. These horses have the size, bone and quality that the trade is demanding and you will find some especially good horses in this importation. Two very excellent Belgian stallions are sired by the great horse, Paul, that was champion at the Brussels show. This importation is a strictly choice lot from one end to the other. In fact we have never seen a better lot of horses in their barns, and now is a good time to go and see them. Their prices are low enough that anybody can buy and if you are going to want a stallion it will pay you to go and see these horses right away. In corresponding with them kindly mention this paper.

The application of oil to the purpose of tank heating is the unique method employed by the Positive Supply Co., whose advertisement appears on page 29. It is claimed that by this method water may be kept at a proper temperature at less than one-half cent an hour. Another feature of importance is that the heater runs day and night and needs no watching. An illustrated circular describes it fully. Address Positive Supply Co., 405 Rock Island St., Davenport, Iowa.

Farmers or breeders of Berkshire hogs will be interested in the announcement of M. A. O'Brien, which appears on page 43 of this paper. That gentleman has for sale some high-class boars weighing from 135 to 200 pounds, which he will dispose of at the remarkably low price of $20 to $35 each. These are the select pigs of the season's crop, because the inferior ones were sent to market where they captured the top prices of the season. For information address M. A. O'Brien, R. 2, Reedsville, Wis.

Goods made by the Kalamazoo Carriage & Harness Co. have met the requirements of farmers everywhere. Just now a novelty in the way of a sleigh is offered for sale and illustrated in the advertisement on page 12. It has the finish and style of an automobile with side doors and luxury body. Better than that is the fact that it is sold at a saving of from $5 to $20 over an ordinary sleigh. Before buying it is well to obtain a catalog which describes it in full. Address Kalamazoo Carriage & Harness Co., Department IH., Kalamazoo, Mich.

The Shamrock herd of Chester White hogs advertised on page 46 is offering for sale an excellent line of spring boars. The herd is headed by St. Patrick 22353, a hog of unusually good lines of breeding. His dam, Lady Perfection, was an Iowa State Fair winner in 1911. The brood sows are of good lines of breeding, have size, good strong backs with finish and quality. These pigs are recorded in the American Chester White Record Association and sold under a guarantee that the purchaser will be satisfied. For prices or additional descriptions write to L. I. Handlon, R. F. D. 3, Farmington, Iowa.

C. & C. T. Van Lint offer for sale a bunch of eight Short-horn heifers that should not remain long unsold at the prices at which they are offered. The Messrs. Van Lint have been breeding Short-horns as a pure, money-making farm transaction and the cattle now offered for sale are the kind that have been making money for them many years. The only reason for their sale is that this herd has outgrown the capacity of the farm to provide for them. They are all of producing age and right in every particular. Descriptions may be learned by writing to C. and C. T. Van Lint, Pella, Iowa.

It is not often that a good, old, standard Poland China herd like that of M. G. Arnold & Son announce cut prices on boars, but the crop of fall pigs is becoming so numerous that forty boars weighing from 150 to 300 pounds will be sold at half price if taken soon. These boars are by Orange Boy, a thousand-pound hog of the most popular big-type breeding. The dams are equally as well bred and of the sort which have made the Arnold herd famous the world over. Pigs will be sold at from $20 to $25 each, which is remarkably low when the size and quality are considered. Satisfaction will be quaranteed or pigs will be shipped on approval to responsible buyers. See advertisement on page 45 and for further descriptions write to M. G. Arnold & Son, Strawberry Point, Iowa.

W. F. Drummy, Ryan, Iowa, informs us that he has for sale an October, 1912, pig by Drummy's Col., dam Empress Queen, that is a grand animal with length, heavy bone, extra strong feet and all the make-up of a high-class herd header. He only asks $50 for it. He also has a February, 1913, pig of the same breeding that he will sell at $40. Mr. Drummy says: "I have forty March and April pigs of choice strains. Some of them trace to the herds of Menaugh Bros., Harding & Son, W. S. West and W. A. Cottingham. They are sired by Drummy's Col., Illinois Chief, Supreme Goods, Cherry Prince and Superba Junior. These pigs are long, heavy boned and of a nice cherry red color. I have spared no expense in getting the best breeding stock and now offer very high-class pigs to my patrons." See advertisement on page 47 and address inquiries to W. F. Drummy, Ryan, Iowa.

At the 1913 Illinois State Fair the display of draft horses was one of the best ever seen at any state fair, all breeds being strongly represented. No breed came to the front any better than did the Clydesdales, a fine lot of horses of the popular Scotch pattern being shown. The Lafayette stud, of John Leitch & Sons, Lafayette, Ill., was the prominent factor in the success of this show. They exhibited twenty head of as good Clydesdales as any firm can show. The ribbons were tied by the veteran Clydesdale importer and breeder, Alex Galbraith, and when the show was over Leitch & Sons had captured first, second and fourth on aged stallions with Strathbaun, Regal Style and Benwell; first and fourth on three year old with Craibstone and Gold Leaf; second on two year olds with Monarch; first, third and fourth on

aged mares with Parkend Beauty, Jess of Hartbush and Pride of Avondale; second and third on three year olds with Jean of Fairfolds and Augusta; first on best five stallions, and their grand mare, Parkend Beauty, was made champion of the show. Leitch & Sons are easily the largest Clydesdale importers in the country, and they secure the best that money and experience can buy on the other side, so that they are always in shape to show to intending buyers a choice lot of horses. See page 41.

In a recent letter ordering the change in his advertisement, H. S. Allen, Russell, Iowa, says: "To the Duroc Jersey breeder in need of a herd boar I want to say that I have two of the greatest prospects that can be found in the West. One of them is a first-prize winner in the under-year class at the late Nebraska State Fair. His sire is Crimson Wonder Again, his dam Missouri Lady by Valley Chief, he by Ohio Chief. The second dam is Missouri Girl, the dam of the noted H. A.'s Queen. This boar and his three litter sisters won six first prizes, two seconds and one sixth and were one of the most sensational litters ever seen at the western fairs. The boar is one of the most royally bred animals in the country and has a show record to back his pedigree. He has strong masculine character and every attribute of a good sire. He will be priced worth the money. The other boar is a spring yearling sired by Crimson Wonder Again and out of the great brood sow, H. A.'s Queen. These two will be priced worth the money. Both are cholera immune. I have also a bunch of big, heavy-boned farmers' boars to be sold at reasonable prices." See advertisement on page 40 and write to the address named for other information

A Market for Your Furs and Hides.

On page 15 of this issue appears an advertisement of the La Crosse Fur & Hide Company 18-20 South Front Street, La Crosse, Wis. This concern buys all kinds of furs as well as beef hides, horse hides and sheep pelts and claim to pay good prices. To our readers who are interested we would suggest that they write this company at the address given.

Immune Poland China Boars.

Those of our Poland China friends who want an immune boar should consult the advertisement of C. H. Porter, Eagle Grove, Iowa, on page 44 and write him your order. He is offering forty-five head of good boars, all vaccinated and immune and he is pricing them at from $30 to $50. Write him or go and see these boars and you will be sure to buy.

Davenport & Mack Offer Poland China Boars.

Davenport & Mack, Belmond, Iowa, are advertising some good Poland China boars for sale on page 44. They are of the large type, are heavy boned and of the kind that will please the breeder or farmer who wants to raise a profitable hog. They are mostly sired by Big Wonder and out of sows by Jumbo. Write them your wants, mentioning The Homestead.

Martin & Son's New Collie Farm.

A. A. Martin & Son, formerly of Lincoln, Neb., will from now on be located at Tekamah, Neb., and they are making a special removal sale on a fine lot of Collies. These gentlemen breed as fine a strain of high-class Collies as will be found anywhere. Their stock are noted winners and from the best imported stock. It will interest those that have had an idea of buying to get these special prices. Write A. A. Martin & Son, Tekamah, Neb., for full particulars.

McKerg's Short-horns.

Geo. W. McKerg, Marengo, Iowa, offers eight ten-months heifers at $100 each. He also has a few yearling and two-year-old heifers for sale and three yearling bulls. A Homestead representative has inspected these bulls and heifers and can commend them to anyone looking for low-down, thick, beefy heifers or bulls of good blood lines. The sire of this sale stuff is Royal Guide by Narcissus King. Part of the heifers are Scotch and the balance have five or six Scotch tops. See page 40 and write for prices.

Funke Offers Short-horn Herd.

The greatest opportunity we know of to buy a few select Short-horns is offered by Henry Funke, Greenfield, Iowa, on page 43. He has sold out his farm and must sell his small but select herd of Short-horns and this is the greatest opportunity we know of to buy a Scotch herd. You cannot possibly go wrong in buying this herd as everything is of the very best Scotch families and not a poor individual in the lot. Get busy if you want this herd and go and see Henry Funke at once. When writing him kindly mention The Homestead.

Pederson's Immune Poland Boars.

With this week's issue we begin the advertisement of C. M. Pederson, Dunlap, Iowa, who is offering twenty-five head of immune Poland China boars for sale and he has some very good ones. These boars were all vaccinated with the double method and are, therefore, cholera immune and can be shipped into any herd no matter what the conditions may be. In a recent letter from him he says: "My boars are all immune and I have some extra good ones. I am offering four good fall boars for sale and one of these is an extra good one and he was a winner of first prize at the Crawford County Fair and I am pricing him at $50 and the first man that sends a check gets him. He is sired by Golddust Wonder and in out of Large Tecumseh, a granddaughter of old Long King, and Chief Tecumseh 3d. Another right good one is sired by the same hog and is out of the grand brood sow, Miss Monarch, that actually weighed in breeding condition 800 pounds on my scales. These boars have good backs and the best of feet and legs. I also have twenty big, stretchy spring boars, mostly sired by Golddust Wonder, Long Orange and Defender Again Pride. I am pricing these at from $25 to $35 and the first man that comes or sends his order gets his pick of the bunch." Write Mr. Pederson at once about these boars and mention The Homestead. See page 40.

An Aid to the Housewife.

We desire to call the attention of our readers to the advertisement of the Enterprise Meat and Food Chopper which appears on page 26 of this issue. Every housewife experiences many perplexing problems in preparing the meals, for the human family demands a variety. The food and meat chopper goes a long way in solving this problem and the meals are easier and quicker to get. At butchering time it takes care of the sausage meat. We suggest that our readers look up the advertisement and write the Enterprise Mfg. Co., of Pa., Dept. 83, Philadelphia, Pa.

Cagwin's Husker's Liniment.

Corn husking during any season is hard on the hands, but it is reported this year that the corn is rougher than usual, and this coupled with the frosty weather of unusual severity right at this time is the cause of many corn-roughed hands among our readers. We desire to call attention to the advertisement of J. E. Cagwin, of Ames, Iowa, which appears on page 15 of this issue and suggest that our readers send for some of the goods. This liniment is manufactured in the center of the corn belt to fit conditions found here, and the large sale which it enjoys at this time speaks well for its merits.

W. H. Cooper, Livestock Auctioneer.

W. H. Cooper, Hedrick, Iowa, is well known throughout the corn belt as a popular livestock auctioneer as well as one of the best breeders of big-type Poland Chinas in the middle West. Mr. Cooper has an extensive acquaintance among breeders of pure-bred livestock and from actual experience has gained a thorough knowledge of the breeding of pure-bred livestock. Mr. Cooper is not a man who does things in a theoretical manner and omits the practical side. He has the best equipped farm for the breeding of pure-bred swine which this Homestead representative has had the pleasure of visiting. It is practical in every particular and every-convenience for the hog's comfort is carefully looked after. It is such a man that can render most excellent service as an auctioneer in any pure-bred sale. The fact that Mr. Cooper's auction business is growing from year to year is excellent evidence that his services please his patrons. If interested in the services of an auctioneer write Mr. Cooper in plenty of time as his dates are booked early. On February 4th, Mr. Cooper will hold a sale of big-type, cholera-immune sows bred to his famous big-type boars. Write Mr. Cooper for a catalog and any other information you may want, kindly mentioning The Homestead. See page 44.

Hollingshead's Great Sale.

On Tuesday, November 11th, at Chariton, Iowa, R. C. Hollingshead will sell one of the greatest Poland China offerings of the year, and those of our readers who have not as yet bought their boars will find in this sale some of the greatest young boars that have been listed for a public sale this fall. He is selling thirteen head of fall boars that for size are hard to beat. He is also selling a grand good lot of fall sows and we will say in all candor that we have not seen such an array of fall sows in any sale this fall as he will offer in this sale. You cannot afford to miss this sale if you are on the market for a boar or a few choice sows. Our M. T. White will attend this sale in person and will care for any bids sent in his care.

Kreischer Offers Bargains in Polands.

E. W. Kreischer, Mt. Vernon, Iowa, has one good September yearling boar sired by the noted Mastodon Chief that he will send to the first man who sends him a check for $45, and if the buyer is not pleased he can return the hog and get his money. He also has one yearling boar of the herd-heading sort sired by Mastodon Chief that weighs over 650 pounds in breeding condition. Fifty dollars will buy this hog. He has thirty boars of March and April farrow weighing from 175 to 225 pounds in nice growing condition that he is pricing at $25 each. Mr. Kreischer desires that anyone in the market for a boar send him a check for $25 and he will send the boar. If the purchaser is dissatisfied he can return the boar and get his money. Every hog on the farm has been treated with the simultaneous method and is immune from cholera. The spring pigs are sired by the famous 1,000-pound Mastodon Chief, the boar that was at the head of Mr. Kreischer's herd until the boar died last summer. There are also some by Big Jumbo 2d, a son of the famous Big Jumbo, and also a few by the best boar that Mastodon Chief ever sired. He is nineteen months old and weighs 700 pounds in fair condition while his dam was an 800-pound sow sired by A Wonder. Mr. Kreischer is making these attractive prices in order that he may have room to give his fall pigs good care and also that he may have more time to prepare his sows for the bred sow sale on February 5th. See page 44 and send Mr. Kreischer your order. You will receive fair treatment.

Weberg Offers Duroc Boars.

On page 10 P. W. Weberg, Denison, Iowa, is offering some special bargains in Duroc Jersey boars for the next thirty days. He offers three very choice spring boars that are sired by his noted grand champion boar, Crimson Wonder III., and out of a Defender dam, and he also offers a lot of boars that are sired by the 1,000-pound C. H. Special, Col. Gano and other noted sires. Mr. Weberg says for us to say to Homestead readers that he not only has a great string of boars on hand, but that he is pricing these where they will sell, and if a man will only go and see him he will be sure to buy a boar. He also has a number of good fall boars on hand that are sired by C. H. Special. Don't delay this matter, but go and see these Weberg boars at once. Kindly mention The Homestead when writing him.

Warp Bros. Now Offer Bred Sows.

Without question, one of the greatest opportunities that will be presented this season to get an extra big, extra good Poland China bred sows at reasonable prices, is now being set forth by Warp Bros., Minden, Neb. These gentlemen have one of the very best herds of big sows and gilts that the writer has any knowledge of. They are sired by two boars, their equals are very scarce. One of them was Roesler's Giant, by Long Chief. The other was Old Reliable by Long King. Roesler's Giant was the best boar raised by Thos. F. Miller three or four years ago, and he first went to the head of the A. Roesler herd at Wilcox, Neb., he was later purchased by Warp Bros. and used two seasons. He was a boar that stood forty inches high and weighed in ordinary farm flesh right at a 1,000 pounds. He sired a boar that was shown the past season at the Nebraska Fair, weighing as a two year old, 1,010 pounds on the fair grounds. He was the heaviest two year old ever shown at Nebraska. Most of the brood sows on the Warp place are sired by him. These sows were bred to Old Reliable and we want to say that outside of Long King's Equal, he was the best son of Long King that we ever saw, and as a breeder he is the equal of any extremely big boar we ever came across. Sows of this sort, the extra big, deep, long sows are now for sale and will be sold bred to A Columbus, an extra good son of the champion Coulmbus, or either to Bonapart, a son of the 1913 champion, The Big Orphan. It seems that this sort of stock should meet with a ready sale. Certainly nothing better is to be found in the West, and only few herds offer such attractions. We would urge ordering without delay. See advertisement on page 40.

Koenig's Duroc Jersey Offering.

H. H. Koenig, DeWitt, Neb., is offering choice Duroc Jersey boars sired by the great Golden Model 2d, also Echo's Chief, King's Wonder and Red Model. These are all boars of note, and should attract attention. Red Model is sired by Golden Model and has proven a good sire. King's Crimson was the top boar in the Beem dispersion sale and is a really good boar. Echo's Chief is of Van Patten's breeding, which should be sufficient to commend it. Mr. Koenig has none but good brood sows on his farm, for he is very particular concerning his breeding stock, hence the boars now for sale are, and of a right should be good. If interested, write at once and kindly mention The Homestead. See page 47.

C. B. Powers Immune Poland China Sale.

On November 12th, in the sale pavilion in Aurora, C. B. Powers of that place and one of the best and most favorable-known Poland China breeders within the state will offer forty-five immuned Poland China boars and gilts. These are the get of Again Expansion, one of the greatest boars ever produced in Nebraska, also some by Big Bone, he by T. A. Sampson and out of a daughter of Long King. These boars have established reputations as sires of the big stuff, and they were big also. Again Expansion was a late pig, farrowed in May, yet he went to the fair as a junior yearling and won second, and was larger than the March boar shown against. Big Bone is one of the extremely big sort, and, as his name implies, is extra heavy boned. In the sale that will be made on November 12th there will be offered a few boars really choice enough to head the very best kind of pure-bred herd. We make this statement advisedly, and know whereof we speak. Many might say they were all herd headers, and probably the most of them are, but at least a few are outstanding. The gilts are also good, and as they are immune, they will be good stuff to tie to. This sale was only thought of on very short notice, and as it will be advertised very little, there will probably be no big outside crowd, and bargains are sure to be plentiful. We would just suggest that those that can use something good attend this sale, for we are convinced in advance that it will be the bargain sale of the whole season. J. C. Price will be on hand at this sale, representing The Homestead and bids may be sent to him in care of Mr. Powers. See advertisement on page 40.

Merrick's Good Durocs.

Probably as good boars are now for sale in the state, are offered by F. E. Merrick, Osceola, Neb. Merrick has no great number, something like a dozen, but they are as good as only the best of the spring crop were saved for breeding purposes. They are all of good breeding, being sired for the most part by a son of Belle's Crimson Wonder and by Golden Rod Hero. The first named boar is a good sire, has turned out a lot of good ones and they breed on. The latter boar is by Golden Model and out of the famous producing sow, Miss Hope. He is one of the best Golden Model boars we know of and he is making a record as a sire. Homestead readers in search of something good will find what they want in Mr. Merrick's herd and at a right price.

Wilkinson Importation Coming.

H. P. Wilkinson, who is at the present time in the old country in the interest of the firm of H. P. Wilkinson & Son, at Mitchellville, Iowa, writes us from Rugby, England, saying: "I have been in France and England buying Shire and Percheron stallions and mares. I am leaving Tilbury Dock, London, with the best lot of horses that ever went to the states. I have been a prize winner at the best shows in England." Messrs. Wilkinson have usually had for sale horses of the very best character and the addition of the lot mentioned in the above note will make it worth while for buyers to investigate the new importation. The Messrs. Wilkinson do their own buying and their own selling and have no profits to divide with anybody. The importation leaves London for New York on the 7th of November. As soon as the new horses are comfortably settled on the farm further announcements will be made in these columns.

Choice O. I. C. Boars at $22.50.

With this isue of The Homestead, Wm. Buehler, Sterling, Neb., is starting an advertisement in which he offers readers of this paper some decided bargains. He is naming the very low price of $22.50 on the choice of ten early spring boars that will weigh from 225 up to 250 or more. These boars are all of good breeding. However, a few cannot be recorded as he has lost the pedigree of the dam. But the remainder of them are eligible to record and the same price prevails on the whole bunch for choice. He is naming absolutely bed rock prices, because he wants to sell them immediately. Mr. Buehler is a good stockman, and he buys none but the very best breeding stock. At the public sales over Nebraska the past few seasons, he has bought or been a contending bidder on the very best of the offerings. Readers that are interested will certainly be able to do no better and we would urge ordering immediately. See the advertisement on page 40.

Special Bargains in Holsteins.

On page 40 you will find the advertisement of the Rock Brook Stock Farm, Omaha, Neb., who is offering forty head of Holstein-Friesian cows and heifers, ranging in age from three to six years, all fresh or springing. These cattle were originally intended for their sale some time ago at South Omaha, but they failed to arrive in time, and now that he has them on hand he wishes to close them out within the next two weeks. He is pricing these from $75 and up and they are certainly great bargains at these figures. These are very choice Holsteins and there are some splendid milk cows among the number. If you are going to want some good Holsteins it will pay you to go and see these cattle right away. Mr. Glissman will be at home for the next two weeks and if you will only see him before he gets away you will be able to buy these cattle at prices that will astonish you. When corresponding with him kindly mention The Homestead.

Harry Dodds' Last Call.

In last week's issue we gave a detailed description of the Poland China offering that H. F. Dodds will sell at Florence, Neb., on November 13th, and we just want to again emphasize the importance of attending his sale. This sale, remember, will be held on November 13th, at the feed yards in Florence, Neb., and he is going to sell one of the most representative offerings of the fall season. Many of the good things in his sale will be sired by his noted herd boar, I Am Big Too, the sire of the great Nebraska State Fair winner, Futurity Jack. This hog has been noted as one of the good breeding boars in the state of Nebraska and he always sires the good ones that the breeders are all after. Some of the very best spring and fall sows in this sale will be sired by him also some of his best show and breeding sows are daughters of this great breeding boar. The best fall boar he is selling is Dodd's Best and he is a son of this boar and is out of the great sow, Victress, who in turn is a daughter of the noted boar, Big Victor. In brood sows he is selling Show Girl, a daughter of I Am Big Too, and

NEXT WEEK'S SALE PROGRAM

Tuesday, November 11	Poland Chinas, R. C. Hollingshead, Chariton, Iowa.
Wednesday, November 12	Poland Chinas, H. F. Dodds, Florence, Neb. Poland Chinas, Mrs. August Gorder, Plattsmouth, Neb. Poland Chinas, C. B. Powers, Aurora, Nebraska.
Friday, November 14	Aberdeen Angus, Marion C. Stone, Kansas City, Mo.

she was one of his greatest winners this fall at the fairs. He is also listing three spring boars by the undefeated boar, Columbus, and also four very choice spring gilts by the same boar. These will undoubtedly be sought after by the best breeders because they are all right and will make money for any man that buys them. It is unnecessary for us to go on and enumerate the entire offering as we gave a detailed description in last week's Homestead. We will say, however, that Harry Dodds is selling a splendid lot of Poland Chinas and it will be a good sale to attend. Write him at once for catalog and be sure to go to his sale. M. T. White will represent The Homestead at the sale and will look after any bids sent in his care. See advertisement on page 41.

The Economy Duroc Sale.

The Duroc Jersey sale made by the Economy Stock Farm, at Shenandoah, Iowa, on October 29th, was well attended and they made an average of $47.50. The sows they offered bred to Big Wonder, their Iowa State Fair grand champion boar were eagerly sought after and they sold at an average of $102.50. The top was Miss Col., a daughter of King the Col., and she was purchased by S. W. Swanson, Red Oak, Iowa, at $175. He also secured a choice gilt at $75 and V. L. Gaston got another at $77.50. Mr. W. R. White, Mabton, Wash, got one of the greatest sows in the sale in H. Blazes at $150. This is a litter sister to their third-prize Iowa State Fair sow, and she was regarded as one of the great bargains in their offering. Mr. Swanson also secured Miss Gano at $77.50 and Peter Hopley & Son, Lewis, Iowa, got Queen Blazes at $85 and Velsep Queen at $77.50. The old boar Highland Chief, was purchased by V. L. Gaston, Malvern, Iowa, at $177.50 and Top Col. went to E. O. Pete, Shenandoah, Iowa at $60. Col. Nelson G. Kraschel cried the sale and did splendid work.

DeYoung's Duroc Boar Bargains.

In a recent letter from A. J. DeYoung, Sheldon, Iowa, he says: "I have a grand lot of Duroc Jersey boars on hand and they are doing fine. These are all vaccinated and immune, and I am closing them out at farmers' prices. I have some extra good boars for sale that are sired by my great breeding boar, Big Bone Climax, and these will certainly make great boars. I recently received a letter from a breeder in South Dakota that bought a Big Bone Climax boar from a breeder that secured a sow at my sale and he says he is the best boar he ever saw. You can just say to Homestead readers I have a number of boars on the place and for sale that will be just as good if properly cared for. I recently bought of W. N. Shanks, Worthington, Minn., a great fall boar sired by Crimson Wonder Again, and he ought to be a great held to King of Cols. Again and Big Bone Climax, and with these three great boars I will certainly be able to furnish the breeders what they want. Just now tell Homestead readers to write me about these boars I am offering for sale." When writing Mr. DeYoung kindly mention this paper. See page 47.

Hopley's New Importation.

The well-known firm of Peter Hopley, Lewis, Iowa, have arrived home with their first importation of Percheron and Belgian Shire stallions and mares, and the horses are now quartered in their barns where they can be seen at any time. They have another importation of Percheron and Shire mares coming, and these land about the middle of November. They have a grand good lot of stallions in their barns just now and will take pleasure in showing them to intending purchasers. These horses were personally selected by the senior member of this firm, Peter Hopley himself, and there isn't a better judge on either side of the water. The firm of Peter Hopley & Son have built up a reputation for handling a high-class lot of horses, and they do not import any other kind. Among the Shires they brought with them is a three year old that they bought from the association that paid $10,000 for the use of the great horse, Tatton Dray King, and this is a great colt. They have a Belgian in the barns that is regarded as one of the best that was brought over this year, and also some splendid Percherons. Make it a point to visit their barns and personally inspect these horses. When writing them kindly mention this paper.

J. W. McDermott's Short-horn Sale.

Short-horns that merit the attention of those interested in good cattle are listed for sale on Tuesday, November 25th, by J. W. McDermott, Kahoka, Mo. In this annual draft ten bulls, fifteen cows and fifteen heifers are listed. Mr. McDermott has used the good breeding bull, Fair Goods, one of the best sons of Choice Good and the great show cow, Ruberta, for several years and much credit is due this bull as a sire. His best son, Good Count, a low-set, thick-fleshed roan out of Cloverdale Countess by Imp. Marquis of Zenda has also been in service for three years. Both are proving their value as sires and much of their get is included in the sale and the cows and heifers are bred to them. The bull offering is decidedly good in bulls with such conformation and character as is demanded by the more critical buyers of herd headers. Golden Count a white two year old by Good Count and out of Golden Girl, she by old Choice Goods and out of Golden Abbottsburn by Young Abbottsburn, is a low-set, thick-fleshed bull with such good lines, even balance, fine front and rear quarters and character that he should appeal to those looking for high class herd headers. Another white two year old is Whitehall Prince by Whitehall Rosedale and out of an imported Rosewood cow. He is a sappy fellow, a thick, heavy flesher and will please many. A roan February calf by Good Count and out of an Avondale cow is a prospect worthy of consideration by those looking for herd header material. A yearling by Whitehall Rosedale and out of a Glenbrook Sultan cow and a yearling by King Cumberland are strong, useful fellows ready to do service. Several other strong stock bulls are listed so that those looking for good steer bulls will find ample opportunity for selections. The female offering is good. There are listed daughters of Fair Goods, Good Count, Villager, Whitehall Rosedale, Whitehall King and other noted bulls. They are representatives of the Princess Royal Campbell Ury, Marr Lady Mary, Athene and other noted Scotch tribes with a few well-bred American-bred sorts. There is show material listed, also choice breeding cows and heifers that merit the attention of the more discriminating cattle men. Of these more extended mention will be made next week. In the meantime send for a catalog which gives complete information. Kindly mention The Homestead when doing this. The advertisement will be found on page 43.

Epley Wins Again on Big Junior Sow.

At the recent fair at St. Joseph, W. E. Epley, Diller, Neb., won first and championship on his big senior yearling sow. She was the biggest senior yearling out the past season, and has met with right hearty approval at every show except Nebraska. The judge of that show says that was one place where he felt that he was in error in not placing that sow higher up the line. The judging at Nebraska met with the most hearty approval by exhibitors and on-lookers the past season than for many years, and while any judge will make mistakes, not all of them will admit them. This big sow was in good form all season, and has since the fairs farrowed a litter of six pigs, doing well. Mr. Epley will put up an offering for February 13th that will make those that attend the sale sit up and take notice. He has a lot of this big stuff around the place. The sow just mentioned weighed 745 pounds after completing the fair circuit. Mr. Epley has a few boars for sale that he is pricing right; they are spring farrow, also the herd boar, Expansion Chief. He is an extra good breeder, but the fact that Mr. Epley has so much of his get makes him unprofitable to keep longer.

Coleman Bros.' Good Herds.

One of the best herds of real big-type Polands of Nebraska is the herd owned by Coleman Bros., Ithaca. These gentlemen have been breeding good hogs for a number of years and they early went after the very best of the very biggest they could find. They have used many of the good boars of the country, and today they have in service as good a son of A Wonder as we have ever seen. This boar has remarkable quality, and yet he is big. He is a two year old and will weigh about 800 and in just breeding thrift. He will make between 900 and 1,000 pounds at maturity and is a sire with few equals in the West. These gentlemen have twenty-five fall sows, yearlings this fall that are as good a bunch of fall sows as we have seen in many a day. They are all the get of Excellent Wonder, except two or three. They are of course from a high-class line of sows, but the type of the real big ones is there and they are sure fine. A new boar from the Thos. F. Miller herd has been added and he is by a son of Long Chief 2d. He promises well and is sure a good young boar. Coleman Bros. will make a sale of Poland Chinas on February 2d. In the meantime they have some good Short-horn bulls for sale at $100 each. They are sired by a bull from the herd Herr Bros. & Reynolds, of Wisconsin.

Metier's Milking Short-horn Sale.

On November 20th, at Weldon, Iowa, A. H. Metier will make a closing-out sale of forty-four head of milking Short-horns and it promises to be one of the attractive sales of the year. The Metier herd has been established for over a quarter of a century and has been bred along the Bates lines, known as the milking strains. For those breeders and farmers who are interested in these milking Short-horns we will say here is a good sale to attend. There will be forty head of females in the sale and four head of bulls. Among these will be six head of straight-bred Bates cattle of the purest strains, and many of their descendants will also be included in the sale. Two of these will be Bates Waterloos and four will be Oxford Duchesses. Meadow Duchess 4th and Meadow Duchess 6th will be two of the pure or straight bred Waterloos and they were daughters of Metier's Union Flag Duke, a bull that he formerly used with much success in his herd. Both of these cows are safe in calf to his splendid roan herd bull, Arabella's Crescent Knight. Among the straight Oxfords that he is selling is Oxford Duchess of Leon, a daughter of that celebrated Bates bull, Waterloo Duke of Hazelhurst. She is one of the most royally bred Bates' cows living and she has been a splendid breeder in this herd. Oxford May 2d, is a five year old, and is a daughter of Metier's Union Flag Duke and she is another well-bred Oxford. Oxford May 3d is a daughter of that grand old breeding bull, Duke of Wapsie, a bull that was formerly used with the greatest success in the O. M. Healy herd at Bedford and this cow sells with a good roan bull calf at foot by Arabella's Crescent Knight. Oxford May 4th is another good daughter of Duke of Wapsie, and these are as straight and as pure Bates as you will find in this country. There will be twenty head of Julia Wards of Golden Pippins in the sale and this is a strain that has been in this herd for over a quarter of a century and has been cherished as one of their most noted and greatest strains. Among these good Julia Wards is Julia Ann 6th, a daughter of Metier's Union Flag Duke, and she has a splendid roan bull calf in the sale. Golden Pippin 8th is also one of the best of this particular family and she sells with a splendid roan cow calf at foot. There are a lot more of these Julia Wards in the sale and they are among the very best that he will offer. Among the very choice heifers he will sell is Miss Golden Metier, a splendid white heifer and she is sired by Arabella's Crescent Knight and she belongs to the Julia Ward tribe. She is one of the very choicest heifers in the sale and she is not very far from a show heifer if she was taken good care of by the man that buys her. The herd bull, Arabella's Crescent Knight, will also be sold and he is a splendid roan-Scotch bull. He is a son of that noted bull Imp. Crescent Knight, that was formerly used in the Cargill herd of Canada and later in the herd of R. O. Miller at Lucas, Iowa. This bull will weigh about a ton and is a nice roan in color and is a splendid breeding bull. His get in this sale will demonstrate his ability as a breeding bull. There will also be some nice young bulls in the sale that are strictly all right. Write A. H. Metier, Weldon, Iowa, for a copy of his catalog and kindly mention The Homestead. See advertisement on this page.

Stone's Kansas City Aberdeen Angus Sale.

The Aberdeen Angus cattle Marion C. Stone, Milan, Mo., sells at Kansas City, Mo., on Friday, November 14th, are cattle that should command the attention of the best cattle men, who want either high-class bulls or females. Nine strong young bulls and forty-one cows and heifers are listed and there is not one that Mr. Stone need make an apology for. There has not been so high-class a lot of Aberdeen Angus cattle offered in Kansas City for years and those who want bulls or females of this great beef producing breed should not overlook this opportunity, as Kansas City has long since been known as the best market to buy pure-bred cattle on that is found west of the Mississippi river. Mr. Stone has never used any but high-class sires in his herd and the results are now offered. His present herd bull, Kessenger 141961, a K. Pride, is the sire of all of the younger things and the cows are in calf to him. He will be on exhibition sale day to show the kind of sire

A. H. METIER'S
Closing Out Sale of
MILKING
SHORT-HORNS
Of the Celebrated Bates-bred Strains

WELDON, IOWA
THURSDAY, NOVEMBER 20, '13

44 HEAD: 40 COWS, 4 BULLS 44

INCLUDED will be my splendid Scotch bull, Arabella's Crescent Knight, a son of Imp. Crescent Knight, a bull formerly used in the Cargill herd of Canada. He is a massive roan bull and a wonderfully good breeder. There will be two head of pure-bred **Waterloos** and four head of **Oxford Dutchess** in the sale. These are absolutely **straight-bred Bates cattle** of the very richest pedigrees known to the breed. There will also be 20 head of **Golden Pippins** or **Julia Wards** in the sale, and these are our most famous strain, having been in our herd for over a quarter of a century. There will be **8 yearling heifers, 5 two-year-olds, and 5 spring calves** in the sale, also **3 very choice young bulls.** The day of the milking Short-horn is here. If you want some of these celebrated milking strains make it a point to attend my sale. Col. H. S. Duncan and McMains, auctioneers. Write for catalog at once and mention Iowa Homestead.

A. H. METIER - WELDON, IOWA

C. E. GIBBS' SALE
SHORT-HORN CATTLE
SCOTCH AND SCOTCH-TOPPED
KLEMME, IOWA, NOVEMBER 19, 1913
50 Head: 34 Cows and Heifers, 16 Bulls. 50

INCLUDED will be the splendid young Scotch bull, **Pride Goods 378193**, a son of the well-known Merry Goods, and he is a royally bred Cruickshank Secret. Also a number of **young Scotch bulls in the sale. I am listing my best breeding cows and my best show cows,** several of which were winners at the fairs this fall. There will be **10 of my choicest heifers** in the sale and there will be **15 head of calves at side of dams.** Here will be one of the greatest opportunities of the year to buy Short-horn cattle. Col. McIlrath, Auctioneer. Catalog ready. Write for it at once and mention Iowa Homestead. Address

C. E. GIBBS - KLEMME, IOWA

the younger cattle are by. Heading the bull offering is the Trojan Erica yearling by Kissinger and the K. Pride yearling by the same sire. In this pair of bulls Mr. Stone is selling a pair of high-class fellows, as well bred as could be desired. Others of the same type afford bull buyers an excellent opportunity. There is listed twenty-two cows and nearly every one has a calf at foot by Kissinger and is re-bred to him. They are in the very best possible condition for the buyer and are in such nice condition as to show their value. The nineteen heifers are certainly a grand lot and are mostly bred. Among these females are several K. Prides, daughters and granddaughters of Imp. Pride of Gartley 2d, daughters and granddaughters of the Trojan Erica cow, Imp. Eppy of Finlarig, daughter and granddaughters of Imp. Joyful Girl of Theakston, the foundation of Mr. Stone's Lady Ida tribe that is proving one of his greatest producing tribes. He also sells a nice string of Abbess females that are daughters and granddaughters of Imp. Abbess of Benton 4th. For this sale Mr. Stone has listed just as good cattle as he owns as he realizes that only the very best of the herd will do for a sale at Kansas City. He wants everyone interested to come to the sale and see the cattle he sells whether you buy or not, as he has a large herd at home and knows that while you may not be ready to buy at this time you will appreciate the kind he is growing and when ready to buy will not forget his herd. Note this page for Mr. Stone's advertisement and send now for a catalog and kindly mention this paper when doing so.

STONE'S GREATEST
ABERDEEN ANGUS CATTLE SALE
WILL BE HELD IN LIVE STOCK SALE PAVILION
KANSAS CITY, MISSOURI, FRIDAY, NOV. 14, '13

50 Head: 9 High-class Bulls, 31 Superb Females. 50

THE nine bulls are good, a Trojan Erica and a K. Pride are sure herd headers. There is not an inferior bull in the lot. Twenty-one cows, nearly every one with calf at foot and rebred. They are the kind that produce top stuff. Nineteen two-year-old heifers all sired by my K. Pride herd bull, Kissinger 141961. There has not been offered in recent times such an array of females. There will be several K. Prides, daughters and granddaughters of the grand old Imp. Pride of Gartley 2nd, the foundation of my K. Prides. A nice bunch of Trojan Ericas, four daughters and granddaughters of Imp. Eppy of Finlarg, the foundation of my Trojan Ericas. Four daughters and several granddaughters of the good old Imp. Joyful Girl of Theakston, the foundation of my Lady Idas. (Chas. Escher, Jr., says she is one of the best Lady Idas that ever crossed the water.) Daughters and granddaughters of Imp. Abbess of Benton 4th, the foundation of my Abbess tribe and a nice string of Easter Tulloch Duchess, the kind that make good. Kissinger, my present herd bull that is the sire of all the young cattle, will be at the sale so you may see their sire. Send now for catalog. If you want good reliable cattle this will be your best opportunity. Address mentioning The Iowa Homestead.

MARION C. STONE - - - MILAN, MISSOURI

Cols. Reppert and Graham, Auctioneers.

Mrs. August Gorders' Sale.

On Wednesday, November 12th, at Plattsmouth, Neb., Mrs. August Gorder will make a public sale of fifty head of large-type Poland Chinas, and hers will be one of the splendid offerings of the year. The Gorder herd was established by the late August Gorder and his wife and they were never known to buy a poor boar. The young spring boars and gilts are largely sired by Futurity Jack, that noted Nebraska State Fair prize-winning boar, that stood at the head of their herd. Mr. Gorder purchased this boar last fall at the Lonergan sale and he was the high-priced boar in that offering. He was a son of the noted boar, I Am Big Too, so you will know he had a right to be a splendid breeding boar. She is selling a good two-year-old herd boar in Petite Tecumseh, a grandson of old Exception, and he will weigh over 700 pounds. There are two splendid fall boars in this sale, both sired by Teddy, a former herd boar and these are out of a Centennial dam. These are large, lusty, big-boned fellows, with plenty of size and quality and are right to go out and do good service. Some splendid sows by this boar, Teddy, are listed, also daughters of Big Smoke, Pawnee Nelson, Big Hadley and High Pocket. In her catalog announcement she says: "I extend an invitation to you to come to our first Poland China sale. My late husband and I have worked together for many years to establish a herd of hogs that would be a credit to ourselves and the breed. In selecting our foundation we bought from the best herds of the big type, from breeders who have made a success of the business, never allowing the price to stand in way of securing a good animal. The offering will, I believe, prove that our efforts have not been in vain. Field men and others who have seen it pronounce it to be one of the best of the season. You will find in this offering a useful lot in the best breeding condition." Write Mrs. Gorder at Plattsmouth, Neb., for catalog and then make it a point to attend her sale. Bids sent to M. T. White of The Homestead in care of Mrs. Gorder will receive attention on day of sale.

Pioneer Poland China Boars.

On page 44 that veteran breeder of Poland China hogs, W. Z. Swallow, advertises that he has now for sale a limited number of high-class boars. One of these is Big Jumbo 2d, an August two year old from the Peter Mouw herd, that should go to head some better than usual big-type herd. He is a son of Big Bone, he by A Wonder, and his dam was by a son of Chief Price 2d. It is a happy combination of the blood of the Mouw herd and has produced a great big, strong-boned, husky hog that has already a reputation as an excellent breeder. This hog will be sold at the low price of $100 and the first order takes it. A fine litter on the Swallow farm is to his credit. There are also for sale a number of spring pigs, all of them big, thrifty fellows in good form. One of these, Bouncer's Model, a March pig, is by Bouncer, he by Medler K. O., and his dam was Edith's Model by Banker's Model. This pig is one of a litter that made remarkable winnings at the futurity show at the late Iowa State Fair. His brothers took first and second and a sister fifth, while the litter in which this pig was included took first as produce of sow. Another March pig bred in Minnesota is by Made To Order, a 930-pound hog. This fellow is a big, strong, well-formed animal, right in every way, and except for the fact that Mr. Swallow is reducing his herd quite materially he would be kept and fitted out for next season's shows. That was the purpose for which he was bought. Still another March pig is by L.'s Big Bone, out of a sow by Chief Price Again. This is popular breeding and the pig is a credit to the blood he carries. Royal Nelson, another March pig, is by Big Nelson, he a son of Pawnee Nelson, and his dam was a granddaughter of Chief Price 2d. Three pigs are by Swallow's A Wonder, dam Miss T. R.'s Perfection 5th, a sow which carries a good deal of the blood of old T. R.'s Perfection, and in her growthiness and finish is a credit to that remarkable line of breeding. Two others are by Look's Best, dam by Advisor, a big-type hog that Mr. Swallow used a year or two since. It will be remembered that Mr. Swallow made an exhibit at the late Iowa State Fair and that one of his yearling boars, after capturing $35 in prize money in the futurity class followed that up by winning in the regular class and later sold to the Iowa State College to head the college herd. Another fall boar shown took two prizes in his class and was later sold to a prominent breeder at a long price. Mr. Swallow has no females for sale. He disposed of a bunch of good, spring sows as herd foundation material to H. B. Cunningham, of Huntsville, Mo. The prices that will be quoted on the pigs above mentioned are so low that they cannot remain long unsold. For that reason buyers should at once come and see them or write to W. Z. Swallow, Waukee, Iowa.

Beware of Prussic Acid Poisoning.

In timely warnings that are being issued by a number of state veterinaries, the attention of stock raisers is called to the fact that prussic acid, in greater or less quantities, is always present in cornstalks which have been stunted in growth by drouth. It is pointed out that the feeding of such fodder to horses, cattle and sheep is attended by extreme danger because, as everyone knows, prussic acid is one of the most deadly poisons. Unless its action is counteracted it often kills an animal in a few hours. It is claimed that no danger will attend the feeding of drouth-stunted cornstalks which are stronger in prussic acid than stalks of ordinary years if the stock have free access to Columbian Stock Powders. These powders have been on the market for over twenty-five years, and are used by many of the large and successful feeders. These powders are said to be anti-acid and anti-fermentative, thus counteracting the effects of the prussic acid. The manufacturers also claim that by using them new corn can be fed to hogs without fear of causing indigestion or worms which is frequently the case. The Columbian Hog & Cattle Powder Company, Dept. 2, 1450 Genesee St., Kansas City, Mo., offer to let our readers feed their powders for ninety days before paying a cent, and we would also suggest that all who are interested write to the above address for their free book just issued which gives further details. See advertisement on page 31.

McWilliams' Durocs.

The Sunnyside Duroc Jerseys advertised on page 40 have a reputation for size and quality which has made them favorites in the past. At the present time thirty-five head of boars of spring farrow are offered for sale. These pigs are cholera immune and will be safe to go anywhere. In order to reduce the stock some extraordinarily low prices will be quoted. For additional descriptions write to M. A. McWilliams, R. F. D. 1, Wall Lake, Iowa.

A Prize-Winning Shire Mare.

The London, England, Live Stock Journal, says: "The Shire mare, Woodperry Locket, is claimed to be the unbeaten brood mare with foal at foot of 1913. She is extremely well bred, her sire being the London champion and sire of champions, Markeaton Royal Harold. Although she is seventeen hands, she is possessed of size, power and weight, with beautiful feminine characteristic, such as a sweet head and neck, sweeping quarters, depth and rotundity of rib, majestic in movement, large bone, of the very best quality, and good feet. Although Messrs. Truman have secured her for the United States, Messrs. Forshaw have retained her foal, which won first at Newark and a first at the Notts County Show, and they have refused a big figure for him. In Woodperry Locket Messrs. Truman have secured a mare that should please the most fastidious in the United States, whither she sailed on October 4th. Her prizes are as follows: 1909, third London Shire Horse Show; first and champion Shire Horse Society's silver medal, Newark; first and Shire Horse Society's gold medal, Nottinghamshire County Show; second Peterborough Agricultural Show; 1910, second London Shire Horse Show (large mare class); second Notts County and Shire Horse Society's gold medal; 1911, first Notts County Show, first and champion Peterborough Agricultural Show; 1913, second London Shire Horse Show; first Newark Agricultural Show; first Notts County and Shire Horse Society's gold medal; first Peterborough Agricultural; first Great Yorkshire, York, and first Royal Lands Show." This mare will be among the horses exhibited at the International Live Stock Exposition by Trumans' Pioneer Stud Farm, Bushnell, Ill. See advertisement on page 42.

The splendid young Cruickshank Secret bull, Pride Goods 378193, a son of the noted Merry Goods that will be sold in the C. E. Gibbs sale at Klemme, Iowa, on November 19th. See advertisement on page 38.

Lang & Company's New Importation of Percherons and Belgians.

W. A. Lange & Company, Greely, Iowa, have just received their new importation of high-class Percheron and Belgian stallions and mares. They have enjoyed an excellent business during the past twelve months, in fact, they did not have a stallion in the barn for some time before this new importation arrived which shows that they have been doing a thriving business. They handle only horses of the best quality and owing to the fact that they were completely sold out before this new importation arrived buyers may rest assured that all of their horses are young and fresh and they will not be shown any carried-over stock. This firm has been importing horses for a number of years and has built up an excellent trade by fair dealing and good business methods. They can supply horses with quality and conformation of the right sort at as low prices as are consistent with the quality of horses they offer. They are in position to give liberal terms and a guarantee that is right. They solicit correspondence from anyone interested and will be glad to give any information that may be asked. After December 1st they will be glad to mail absolutely free a pretty calendar to any of our readers who will write for same, mentioning this paper. See page 42 and when writing kindly mention The Homestead.

The Gibbs Short-horn Sale.

On November 19th, at Klemme, Iowa, C. E. Gibbs, one of the best known breeders in northern Iowa will make a public sale of fifty head of Scotch and Scotch-topped Short-horns, and it promises to be one of the best sales to be held in that section this fall. He is selling thirty-four head of cows and heifers and sixteen head of bulls. There will be twelve to fifteen head of calves at foot, so you can just bank on it that this will be a good sale to attend. He is listing ten or twelve of his very best young heifers and a lot of the very best breeding cows he has in the herd. As a special attraction he is selling his splendid young Scotch bull, Pride Goods 378193, a son of the well-known Bellows-bred bull, Merry Goods. This bull is a white in color, a good individual and he is out of the splendid cow, Lena's Pride, by Champion of Lyndale and his grandsire is the well-known bull, Imp. Lavender Champion. He is a richly bred Cruickshank Secret and will make an excellent herd bull. Some breeder who is looking for a good, white Scotch bull will be interested in this fellow because his breeding is just as good as you can get and he is a right good individual. There will be a choice lot of young bulls also and these will be appreciated by those who attend this sale. Mr. Gibbs expects to be away for a time and he has concluded to sell the best cows he has and is, therefore, listing some of his best breeders that he did not originally intend to part with. Among these is Laura, a large red cow that he won first prize on at the Mason County Fair. Lucy Maid 4th, a richly-bred Scotch-topped Young Mary, and one of his best breeding cows sells with a nice white bull calf at foot. Another large red cow called Beauty is listed and she sells

with a nice roan cow calf at foot by Rookwood Lavender. Alberta of Oakland is one of the large roan cows, and one of the best he has in the herd and she is also listed for this sale. Then there is Red Grace and Red Grace 3d, two cows that will weigh around 1,600 pounds each go in as well as a lot of others that are equally good, and these must be seen to be appreciated. He has a nice string of heifers in this sale that should meet with favor on the part of those who attend his sale. The Gibbs offering will be found to be in good condition, and the offering is a very useful and a well-bred lot of cattle. His catalog is now ready for those who ask for it and it will be sent upon application. When writing for it kindly mention The Homestead. See page 38.

Duroc Jersey Dispersion Sale.

A. T. Bosley advises us that on Saturday, November 15th, he will make a dispersion sale which shall include his entire herd of Duroc Jersey hogs, the sale to take place at Smith's sale pavilion, Fairbury, Neb. There will be over 100 head of pure-bred hogs in this consignment. They are the get of Goldenrod King Jr. (by Goldenrod King), Wide Awake Lad, and other sires of popular breeding. The dams are of equally well-appreciated blood lines. Twenty head are coming yearling boars, two aged boars, eight spring boars, eight yearling sows, fifteen spring sows and sixty pigs farrowed in August and September, 1913. The sale will be held regardless of weather. The opportunity is one of unusual interest to those who want to buy really good stock. Do not forget that it takes place on Saturday, November 15th. Any information desired may be obtained by writing to A. T. Bosley, Fairbury, Neb.

A Wonder Breeding at Special Prices.

Frank G. Hoagland, Glenville, Neb., has a good lot of early spring Poland China boars, also a few fall boars and they are all for sale. They are mostly sired by Jumbo Wonder, a son of A Wonder and a really good A Wonder boar. These pigs are not overfed nor have they been crowded in the least, and they will be for sale at such prices that any farmer or breeder can afford to buy a pure-bred boar. In Mr. Hoagland's section of the country they have little corn this year, and for that reason a market must be sought where they have feed. For that reason, Mr. Hoagland is offering these boars to the readers of this paper, and he says that he will take a price that is about half what these boars should bring, and that is only a small bit above the actual cost of production. This means that there will be little excuse for any breeder or farmer to use any but a good boar this season. There are boars in this herd, that had they been fitted, would bring $100, but they have not been fitted, and as breeders are really more valuable, yet they can be had for a fourth the money. The sow herd on the Hoagland farm is one of good breeding, and good size stock. There will be no more sons of A Wonder, for the old boar is dead, and this breeding is as close to the fountain head as possible to find now. Send in your orders early and be assured of a good selection. See this page.

Knoxville Poland China Sale.

Messrs. Shivvers and Perry, of Knoxville, Iowa, announce a public sale of Poland China boars to take place at Elliott's sale barn, Knoxville, Iowa, November 14th, as per advertisement on this page. There will be fifty head in this sale. They will be the get of Chief I Am and Longfellow. It will be remembered that Shivvers and Perry herds made some sensational showing at the late Iowa State Fair. The pigs now to be sold are cholera immune, right every way and desirable animals. For full particulars write to Shivvers and Perry, Knoxville, Iowa.

Again Expansion.

Again Expansion, the hog illustrated on page 30, weighed 915 pounds at twenty-three months of age. He won first prize in class and was the champion Poland China boar bred by exhibitor at the Nebraska State Fair of 1913. He was bred and owned by C. B. Powers, Aurora, Neb. On the 12th of November Mr. Powers will sell a number of forty-five head of young breeding boars and sows from this noted big-type herd. These are sired by Again Expansion, Big Bone 7th (a grandson of Mabel's Wonder). See advertisement on this page. For catalogs address C. B. Powers, Aurora,

Holstein Herd For Sale.

A herd of Holstein cattle is offered for sale by C. W. Barclay as per advertisement on page 12. Mr. Barclay has no fault to find with these cattle They have made him good money and are right from every point of view, but he wishes to change the plan of operating his farm and has decided to let the Holsteins go. They are now offered at reasonable prices, singly or in lots, as buyers may select. There are in all sixteen head. Five of these are bulls, three of which are of serviceable age. The herd bull, now three years old, is Colantha 4th's Lad Leda, a Copestake-bred bull and one which carries lines of breeding representing not only popular strains, but those of a high order of excellence as producers. Two two year olds are big, husky fellows, one of them a son of Colantha Mercedes Prince. Two others are yearlings. There are nine cows and heifers of breeding age. Five of these are matured cows, two with calf at foot and the others due to drop calves soon. None of these cows are of advanced age. They are all good milkers and from the highest producing strains. One of them had a milk period covering thirteen months. The herd was established by foundation material from the Copestake and Barney herds, both of which are recognized as having high standards. Mr. Barclay wants to sell these cattle quick and will make low prices. He would take $2,300 for the lot or will sell them individually if the buyer so wishes. Address inquiries to C. W. Barclay, Madrid, Iowa.

A Congress Dry in Name Only.

Many Lively Addresses Were Delivered at International Dry-Farming Congress.

A MEETING of especial interest to farmers in the Southwest was the International Dry-Farming Congress which has just been concluded at Tulsa, Oklahoma. Fair sized crowds despite unfavorable weather gathered from Oklahoma and adjoining states to hear men of national and international reputation discuss subjects of great interest, or of supposed interest, to those who farm. Not only was the entire United States represented, but a large number of prominent agricultural leaders and thinkers from foreign countries were there. Noticeable among the speakers were, Henry J. Waters, formerly of Missouri, and now president of the Kansas Agricultural College, Manhattan; H. M. Bainer, of Amarillo, Texas; W. M. Jardine and W. A. Cochel, of the Kansas Agricultural College; J. H. Shepherd, of the North Dakota Agricultural College; Philander P. Lewis, of Crescent, Missouri; C. A. Ocock, of Peoria, Illinois; John T. Woodruff, of Springfield, Missouri; Col. Frederick A. Farnsworth, Sec. of the American Bankers Association; Karabat Nourian Effendi, of Turkey; Romulo S. Nalon, of Argentina; Dr. Konrad von Meyenburg, Balle, Switzerland; Dr. Romulo S. Escobar, of Mexico, and many governors and prominent citizens from all sections. The address of Henry J. Waters was on "Home Essentials to Rural Progress" and, of course, contained many striking examples and illustrations of the needs of the rural people of the present time, of the necessity of closer co-operation among them and of the closer attention which must be paid to all of the improvements of the farm home.

In discussing the use of silage for feeding cattle W. A. Cochel reviewed the experiments which the Kansas Agricultural College is making. He gave some most interesting and helpful figures regarding the results which they have secured in western Kansas in feeding beef cows on economically produced feeds. It was found, said Mr. Cochel, that:

Where succulent feed is provided during the winter feeding period, greater use can be made of unpalatable roughage than where the stock is maintained on dry feeds. Cows which received all of the kafir they would eat made an average gain of 123.7 pounds, while those which received whole fodder gained only 49.7 pounds. The smallest gain, 35.8 pounds, was made by the cattle receiving kafir stover. An interesting feature is that the cows which received a limited ration of silage made an average gain of 56.5 pounds in a period of 100 days. These results indicate that it is possible to increase very materially the live stock carrying capacity of the land by use of the silo. As there are only 2.28 acres of grain crops such as kafir required to maintain a cow on a limited silage ration during the winter where she had access to all of the straw she would eat and a pound of cottonseed meal, when fed a full feed of silage this acreage was increased to 4.2 and when fed on whole kafir fodder directly from the same field there was a further increase of 2.28 acres required for winter feeding. With the results secured from this test, one would be justified in stating the efficiency of the crop, because of being put in the silo, was increased at least 50 per cent as compared with the same crops fed in a normal manner. When it comes to considering the cost of the feed consumed, the results are entirely consistent with the behavior of the cattle as far as the character of the ration is concerned. These results were secured with kafir, which is one of the leading forage crops that can be grown successfully from year to year in the Great Plains region. It has the advantage over corn for silage purposes in that it will resist drouth, produce a larger tonnage per acre and is just as palatable and just as nutritious when put into the silo.

"The Business Side of Dry Farming" was the subject of the address by John T. Woodruff, the man who has made such a remarkable business showing in the development of the Ozark country. Like every successful business man he laid particular emphasis upon the necessity of more co-operation among the men who farm and being a man whose great success has been due to his ability to detect vital points his words have considerable weight. Said Mr. Woodruff:

The one essential thing in any branch of farming is co-operation. We should imitate the railroads, who were quick to learn the advantages of a uniform rate to common points and the interchange of each other's cars carrying through tonnage. The manufacturer early established bureaus to promote foreign trade and alliances to secure adequate import duties on goods brought from foreign countries. The merchants buy on the co-operative plan, and have their gentlemen's agreements as to trade territory. Labor, by organization, has naterially advanced wages and shortened the hours of service. But the farmers have formed no such alliances. Each has stood independent and alone. Until recently, the sum total of their co-operation has existed in lending and borrowing farm implements, and swapping work at harvest time. Lately there has been some effort at co-operation through agencies to dispose of a given crop. These efforts have met with some success, but I am persuaded that their co-operation must be of a wider range. There is no good reason why the farmers of any community should not make common cause, and under proper articles of agreement form stock companies, putting in the rents of their farms for a given period, their work animals and farming implements as and for capital stock, and entrust the management of their combined or associated farms to a directorate composed of the stockholders, and supervision to the man best qualified to do the executive work. This arrangement would enable them not only to produce more at a less cost and sell at better prices, but also to buy their supplies at lower figures and on more favorable terms, and, what is equally

POWERS' GREAT POLAND CHINA SALE

OF AGAIN EXPANSION AND BIG-BONE BOARS AND GILTS

Will be held in the sale pavilion in AURORA, NEBRASKA,

WEDNESDAY, NOVEMBER 12, 1913

THOSE interested in the improvement of the Poland China breed should write at once for the catalog of this sale, or better, just get ready and come. The forty-five head listed are immune and are of excellent pedigree. This herd has produced some of the world's greatest big Polands in recent years. This sale will be an opportunity to buy the best at very moderate prices. J. C. Price, field man for Homestead.
C. B. POWERS - - - - - - - - AURORA, NEB.

JOINT BIG-TYPE CHOLERA IMMUNE

Poland China Boar Sale

Nov. 14, '13, at W. V. Elliott's Sale Barn, Knoxville, Iowa

50 Head—Big-Type Poland China Boars—50 Head
Sired by CHIEF PRICE I AM and Longfellow by Longfellow Jr. Col. S. H. Duncan, Auct. SHIVERS & PERRY - - - - KNOXVILLE, IOWA

TOO LATE TO CLASSIFY.

40 HOLSTEIN COWS AND HEIFERS

I WILL sell within next two weeks 40 head of very choice Holstein-Friesian cows and heifers, ranging in age from three to six years, all fresh or springing. These were intended for my last sale but did not get here in time. Will close them out within next few weeks at from $75 up. Come and see them at once or address
ROCK BROOK STOCK FARM - - - STATION B, OMAHA, NEB.

30--IMMUNE DUROC JERSEY BOARS--30

Special Prices for Next Thirty Days

I AM offerldg 3 spring boars sired by the grand champion boar, Crimson Wonder III., and out of a Defender dam. These are good ones. Also some choice fall boars by C. H.'s Special and a lot of spring boars by Col. Gano and other noted sires. Everything vaccinated and immune. These are bargains and must be sold. Address
P. W. WEBERG, - - - - - - - - DENISON, IOWA

TWO GREAT HERD BOARS BY CRIMSON WONDER AGAIN

ONE of them the 1st under-year boar Nebraska State Fair. He headed the herd of Durocs that won six firsts. The other is a son of H. A.'s Queen. Also farmers' big-boned boars at farmers' prices. Address
H. S. ALLEN - - - RUSSELL, IOWA

Sunnyside Duroc Jersey Boars $25 to $40

IMMUNE boars of spring farrow, safe to go into any herd. I have 35 of them that are big, husky, strong boned fellows, and from the most popular lines of breeding. First orders get first choice.
M. A. M'WILLIAMS - - - - R. F. D. 1, WALL LAKE, IOWA

SPECIAL SALE ON POLAND CHINA BOARS

FOR the next few weeks I will make very attractive prices on twenty-five Poland China boars. These are mostly spring farrow, but a few are fall boars. They are mostly sired by Jumbo Wonder by A Wonder and are from a good line of extra big bred sows. I will save you some money. Address
FRANK G. HOAGLAND - - - - - GLENVILLE, NEBRASKA

25---IMMUNE POLAND CHINA BOARS---25

I AM offering 4 choice fall boars for sale, one of which is a high-class boar and was first prize boar at Crawford county fair. The other three are also good, stretchy boars. Twenty choice spring boars sired by Golddust Wonder, Long Orange and Defender Again Price. These are big-boned, stretchy fellows and $25 to $35 gets these. Everything vaccinated and immune. Write me at once and mention Iowa Homestead. C. M. PEDERSON - - - - - DUNLAP, IOWA

OAK PARK HERD BIG-TYPE POLAND CHINAS

30 APRIL boars and 30 gilts sired by Quality King (a grandson of Long King) and O. K. Price (by Chief Price Again). I have also a few fall pigs for sale at weaning time. My prices are low, and hogs will suit. In good health and vaccinated.
H. CRABTREE - - - - - - - - BAXTER, IOWA

POLAND CHINA BRED SOWS AND GILTS

WE offer from our herd of extra choice Poland China sows and gilts a fine selection. They are chiefly sired by Old Reliable by Long King, and Roesler's Giant by Long Chief. They will be bred to A Columbus or Bonapart. If bou want the very best in extra big Polands, write us. Address
WARP BROS. - - - - - - - - MINDEN, NEBRASKA.

20 HEAD OF BIG-TYPE POLAND CHINA BOARS

OF the most fashionable breeding. Sired by King Wonder, Long King's Equal, Sterling Giant and Choice Look, out of 700 to 800 lb. sows, at farmers' prices. J. M. SHEEHAN, STUART, IOWA.

Short-Horn Bulls and Heifers

EIGHT ten-months red and roan thick, sappy heifer calves, $100 each. Several yearlings and two-year-old heifers; 3 yearling bulls. Mostly Scotch breeding. Come and see me or write. Address
GEO. W. M'KERG - MARENGO, IOWA

HALF PRICE THIS MONTH

TOO many Poland China boars. Prices cut to get rid of them. 160 to 300 pounds. Sired by Orange Boy (1,000 pounds). Perfect health, $20 to $35. Will ship on approval. Satisfaction guaranteed.
M. G. Arnold & Son, Strawberry Point, Ia.

BIG POLAND CHINA BOARS

SPRING boars, 250 pounds or better, big bone, high quality, perfect health. Farmers' prices to those who buy quick. Address, mentioning Homestead,
J. H. COPE - - - - CARLISLE, IOWA

Extra Choice O. I. C. Boars

GREAT big spring boars, weight 225 and up. Your choice while they last at $22.50 each. Order from ad. and save time. Address
WM. BUEHLER, STERLING, NEBRASKA

important, obtain operating capital in larger volume and on more favorable terms.

A number of specialists in the handling of farm machinery were on hand, some of them being men who have designed and produced many of the most helpful tools which are in use on the modern farm. Of course, the subject of plowing came up and one of the strongest discussions was the address of Dr. W. E. Taylor, of Moline, Illinois. Discussing the subject of deep tillage Dr. Taylor stated:

In some sections of our country where the soil is rich in humus, which is indicated by its black color, it is safe, after the first plowing, to till deep and, as a rule, the production will be in keeping with the depth the ground is tilled. The arguments, based upon experience in favor of deep tillage when the laws governing plant growth and plant food chemistry are not violated, are so apparent that men cannot afford to ignore the benefits to be derived from making a thorough investigation of all conditions and govern themselves accordingly.

The danger of bringing subsoil to the surface can be prevented and many of the benefits of deep plowing gained by using a plow which thoroughly pulverizes the bottom half of the furrow slice, but does not place the subsoil on top of the surface soil.

This plow has a broad share and the moldboard is very narrow at the point where it joins the share, but widens gradually at the upper end. The share loosens and pulverizes the bottom slice which immediately falls to the bottom of the furrow through the space between the outer edge of the moldboard and the wing of the share. The broad part of the moldboard turns the top soil in the ordinary way.

While this plow penetrates to a depth of fourteen to sixteen inches, the furrow is left half full of pulverized soil. A seed-bed is provided for plant roots. Also owing to the loose condition of the soil, water is rapidly absorbed.

The school and the home came in for their share of discussion. In considering the need of more social life for rural communities H. M. Bainer, of Texas, proposed that each school house should become a social center ment and diversion. He mentioned a community in his own state where this is being done to the mutual advantage of all concerned. This school house, which is large, well ventilated, warm and lighted, is used for school purposes, for debates, lectures, farmers' institutes, religious purposes and various informal meetings of farm folk where the demand is for more room than is to be found in the average home. In speaking of the work which has been done in this one community, Mr. Bainer said:

When this dream first took form in the shape of a house, three or four years ago, it was found that but few if any of the men and women in the community would take the lead. They were reticent, and were with difficulty stimulated to the point of taking the initiative. This made necessary the introduction of speakers and other entertainers from outside communities. But today, what a difference! Men and women of the community now stand forth and give the social center gatherings the benefit of their years of experience, and it is the exception, and not the rule, when an outside lecturer, reader or speaker is engaged.

It matters little what the subject, be it seed corn selection, a consideration of a true thought to the minds of planting cotton, the growing of alfalfa, melons, fruits or gardens, the people of the community may be relied upon to furnish adequate information on the points engaging attention. The "social center," which for our purposes today, is the school house, resounds with eloquence of the real type, that used as a vehicle for the transportation of a true thought to the minds of intelligent hearers. Its walls are hung with art executions of the dwellers in the community, while music is made a portion of many programs.

Of course, "Rural Credits," at the present time attracting so much attention in the press of the country, occupied a prominent place on the program of the Dry-Farming Congress. Perhaps one of the men who has the best insight of the present day banking conditions is Frederick E. Farnsworth, of the American Bankers Association. "Why the Bankers are Working with the Farmers," is the subject which he discussed. After pointing out how both city and country banks are absolutely dependent upon the soil and the prosperity of the men which the soil supports he emphasized the fact that, besides aiding farmers, banks must of necessity loan money to grain, livestock and cotton buyers, to mail order houses, makers of farm machinery, implement dealers and, in fact, the many which are dependent upon farming for their existence. The opinions of farm people as a class as held by bankers was probably best brought out when he said:

The American farmer is justly famed for his independence. But he carries that independence too far when he considers himself exempt from the conditions under which other classes of borrowers must meet their obligations promptly. Country bankers, and those of you here today who may be stockholders in banks, know that farmers, as a rule, are among the most negligent of creditors. The farmer who pays his sixty days' note in ninety days, or who fails to renew his loan promptly, should realize that he is, to that extent, impairing the business standing of agriculture as an industry, and the credit reputation of the agriculturist as a borrower. The merchant who wants to increase his business and its producing capacity, the farmer who wants a loan to develop or stock his farm, considers the fact that he has the land or the livestock sufficient, although he may be, and usually is, unable to submit proofs from his accounts that he is keeping up the fertility value of his soil, or that every cow in his dairy herd is making money for him. Before we make too many assertions about the need of increased credit facilities let us be sure that the American farmer is making good use of what he has.

All things considered the International Dry-Farming Congress was this year the best of any which has been held. As in all such gatherings, so many subjects are discussed and so varied is the program that it sometimes seems impossible to go to the bottom of everything as thoroughly as one would naturally like to do. It would also be more interesting if more men who are actually each day between the plow handles could be induced to assemble at one of these congresses and give their opinions on the various questions which are arousing such lively discussions among agriculturists the country over. Certain it is that the speakers present made their ideas very clear and many most helpful thoughts were turned loose.

Baguio, in the Philippines, has been strengthening its claim to be the wettest place in the world. On July 29th the precipitation was 31.79 inches, which nearly equals the world's mean rainfall for the year. But Baguio has done better than that; it made a world's record in July, 1911, with 91.53 inches in four days, of which 33.70 inches fell in a single day. When 7½ feet of water comes down in one storm it is time to look after the shingling of the ark.

Considerable loss is occasioned on many farms every year by allowing crops to become too ripe before harvesting. This is especially true of grass or clover, or any crop intended for hay or as a substitute. With grasses when the seed begins to form well, and with grain crops when the grain begins to harden, is the best stage to harvest.

LIVE STOCK AUCTIONEERS.

N. G. KRASCHEL
HARLAN, IOWA.
LIVE STOCK AUCTIONEER
I AM conducting sales for the best breeders in the country. Write for dates. Mention The Homestead.

J. M. ROBINSON
LIVE STOCK AUCTIONEER
I CONDUCT SUCCESSFUL SALES.
WRITE EARLY.
NORTH BEND, NEBRASKA

L. A. MATERN, WESLEY, IA.
LIVE STOCK AUCTIONEER
POSTED in all breeds of cattle, horses and hogs. Made sales for most leading breeders in northern Iowa. Also sales farm and real estate auctioneer. Write me for dates.

E. D. SNELL
AUCTIONEER
CAMBRIDGE - - - NEB.
(If it's results you wish, let's talk it over)

GENE FAGAN, AUCTIONEER
PEDIGREED LIVE STOCK
153 SALES LAST SEASON
985 11th ST., MARION, IOWA

Harry W. Graham, LIVE STOCK AUCTIONEER
15 Years' Experience
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MT. VERNON - - - IOWA

OLIVER S. JOHNSON
The Iowa Auctioneer
TIPTON - Cedar County - IOWA

H. F. DODDS' SALE
LARGE-TYPE POLAND CHINAS
Florence, Neb., Nov. 13, '13
45 HEAD: 16 BOARS, 29 SOWS AND GILTS. 45
I AM selling 14 spring boars and Fargo 63952, a spring yearling by Big Tom Jr., and Dodds' Best 67417, a splendid fall yearling by I Am Big Too. The spring boars are sired by Columbus, B.'s Great Hadley, I Am Big Too, Fargo, Big Bob, Expander, Big Tom, and Guy's Price Last. I am selling four splendid gilts sired by the undefeated boar, Columbus, and they are good ones and a lot of good ones by other boars. I am also selling my noted sow, Show Girl, 4 other good brood sows and 6 outstanding fall sows. Col. H. S. Duncan, auctioneer. M. T. White will represent The Homestead at the sale and will attend to bids sent in his care. Write for my catalog at once. Address.
H. F. DODDS, FLORENCE, NEBRASKA

LIVE STOCK AUCTIONEERS.

LEARN AUCTIONEERING
At The WORLD'S GREATEST SCHOOL AND BE INDEPENDENT
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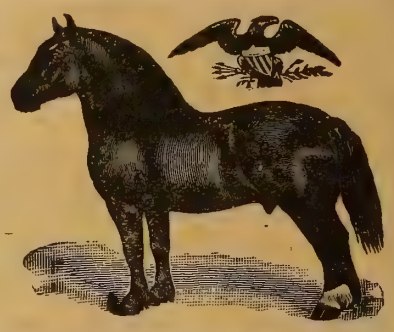

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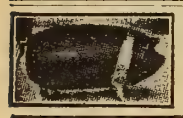
I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudio, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion' at Ohio, Indi ana and Kentucky state fairs of 1911. A sure breeder and priced right. Address

HOWARD NISWANDER - - - - - - **KINROSS, IOWA**



MESSENGER'S HAMPSHIRE SWINE

HAVE **nothing for sale at present.** My herd is headed by Messenger Boy 6179, the undefeated grand Champion of 1912,

CLAYTON MESSENGER - - - **KESWICK, IOWA**

DE KALB'S HAMPSHIRES

300 HEAD in the herd. Anything you want in the Hampshire line. The best bred herd in America. Write me your wants. Address

H. D. DE KALB. **DE KALB, IOWA.**

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address

WOOD & WESCOTT - - **SHEFFIELD, ILLINOIS**

Fisher's Prize Winning Hampshires

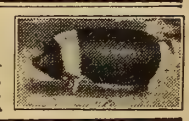
THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address

ROY E. FISHER - - **WINSIDE, NEBRASKA**

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cheroke e our sensational 3 year old show boar. A few registered Red Pol heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

Excellent Hampshire Boars



A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price you can afford, write me. I can supply you. Mention Homestead.

C. P. PAULSEN - - - **NORA, NEBRASKA**

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and Interna tional Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address

E. S. McCANDLESS - THURMAN, IOWA

TWIN CEDARS HAMPSHIRES

HAMPSHIRES all ages for sale,the heavy boned, cholera immune kind, all bred from prize-winning boars at Iowa State Fairs. Address

PAUL WM. JAHN - MANILLA, IOWA

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when waiting. **F. O. Peterson, Galva, Ia.**

HAMPSHIRE BOARS

SAME breeding as my **silver cup** winners at Des Moines, 1912. Will weigh 175 pounds and have had double treatment. Price $35 each. Guaranteed breeders. Mention The Homestead when writing.

F. T. QUIRE - - - - - SULLY, IOWA

BECKENDORF'S HAMPSHIRES

I am offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address

J. E. BECKENDORF. WALNUT, IA.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address

Billie McFarland - - - Syracuse, Neb.

HAMPSHIRES

Choice spring boars and gilts. Best breeding. Right prices. Address

L. F. TETER - SHICKLEY, NEBRASKA

Prize-winning Hampshires

Some extra choice boars. Winners Neb. and Colo. fairs. Farmers' prices. Wirte at once. Address C. S. Bratt, Arapahoe, Neb

IMMUNE HAMPSHIRE

fall and spring boars for sale. Write for description to H. C. Mehring, Manson, Iowa.

JONES HAMPSHIRES---

Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.

Geo. T. Pearce & Son - Bloomfield, Iowa.

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address

A. L. DIEHL, BENEDICT, YORK CO., NEB.

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale We are pioneer breeders of Nebraska. Write today

J. W. COX & SON - ARAPAHOE, NEB

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale

Samuel Johns, Sec. A., Wilmington, Ohio,

350

QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

ENGRAVING

Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

POLAND CHINA SWINE.

FOR SALE

50 BIG-TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., Rt 2, box 76, Lawler, Iowa.

BIG POLAND CHINA BOARS

FALL yearlings and spring boars. Cholera immunes. Sired by Hum Dinger, a state fair winner. **H. U. Arthur & Sons, Spirit Lake, Ia.**

30 CHOLERA IMMUNE BOARS 30

Sired by my great boar, PAWNEE PRICE,

one of the largest and best big-type Poland China boars in the state. Everything **VACCINATED AND IMMUNE.** Write me for prices and description at once. Mention The Homestead and address

W. E. ZIMMERMAN - - - NEOLA, IOWA

SPECIAL SALE UNTIL NOVEMBER 15TH

I HAVE as good a bunch of spring Poland China boars as I have ever raised. Also a few extra choice fall boars. There is no corn in my section of the country, and I am going to sell these big boars so that those living where there is corn can afford to buy. If you will write me, I will make it worth your while. Address

C. W. FRANCISCO - - - - - **INLAND, NEBRASKA.**

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495. Mention The Homestead and address

DAVENPORT & MACK - - - - **BELMOND, IOWA**

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address

C. H. PORTER "Oakwood Farm Poland Chinas," EAGLE GROVE, IOWA

POLAND CHINA FALL PIGS AT $15.00 EACH

FALL pigs sired by the great Poland China boar, Hillcroft Model; also by Big Martin by the champion Big Tom, are for sale at $15 each at ten weeks old. These are from prize-winning sows. All of the highest order. Also some spring boars and two choice fall boars. Write me if you want something choice and worth the money. Address

G. A. KISSINGER, MILFORD, NEBRASKA

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

PIONEER POLAND CHINA BOARS

My big-type herd boar, Big Jumbo 2d, is now offered for sale. He carries a combination of A Wonder and Chief Price blood. He is big and good. Also spring boars by Bouncer, Made To Order, L's Big Bone, Big Nelson, Look's Best and Swallow's A Wonder. Dams are equally well bred. These pigs are healthy, thrifty and growthy. Will be sold at very low prices to quick buyers. Address

W. Z. SWALLOW - WAUKEE, IOWA

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.

JOHN H. FITCH - - -LAKE CITY, IA

POLAND CHINA BOARS

LARGE, vigorous, mellow fellows of quality, spring and summer farrow, and a few summer gilts, all by Imp's Masterpiece by Impudence. Will sell Imp's Masterpiece as I am keeping his daughters. All priced to sell. G. H. Drake, Cole Camp, Mo.

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.
Not the originator, but the preserver.

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

20 Immune Poland China Boars

ONE two-year-old, 3 fall yearlings, 16 spring farrow. Big type. Well grown. 3 Polled Durham and 1 Short-horn bull.

W. H. Barr & Son, - - - Villisca, Iowa

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.

O. J. SATRE - - - JEWELL, IOWA.

Wayside Poland Chinas

Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

When writing to advertisers please mention The Homestead.

BIG-TYPE POLAND BOARS

ONE fall boar by Mastodon Chief. First check for $45 gets him. Thirty March and April boars weighing 175 to 225 pounds. First check for $25 gets choice. These are sired by Mastodon Chief, Big Jumbo 2d. A yearling herd boar sired by Mastodon Chief at $50. Send your check, and if not satisfied when you receive the hog, send him back and get your money. All have had double treatment and are immune. Mention The Homestead and address

E. W. KREISCHER, MT. VERNON, IOWA

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices Address

JOHN I. DRIPPS - SPRINGVILLE, IOWA

30 Poland Boars For Quick Sale

THEY are by VICTOR'S WONDER by Big Victor, MOBERLY by Big Expansion, and BLUE VALLEY. They will be sold quick. Address

E. V. WAUGH - - GREELEY, NEB.

POLAND CHINA BOARS FOR SALE

WE have thirty fall Poland China boars weighing 200 to 250 each at $35 to $40 each; and twenty-five spring boars at $15 each. From sires and dams that passed through the cholera two years ago. Have been a breeder of Polands for thirty years and certainly can please you. Address

J. O. Walton - - - Belle Plaine, Iowa

Poland Chinas 15 Boars 15 Gilts

TOPs of 50 head. Priced right to move promptly. Address **AUGUST POST, MOULTON, IA.**

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once

A.B.Heckenlively - - - Cozad, Nebraska

PROCHASKA'S BIG-TYPE POLANDS

FALL and spring boars at bargain prices, sired by Smooth Wonder Yet, Matchless Charmer, Pawnee Jumbo. The best of blood lines. Satisfied customers in seven different states. Try me.

J. J. PROCHASKA - PROTIVIN, IOWA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires: Big Hadley, Big Rug Winn All. Size and quality. H. Lenz, Lansing, Ia

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152095) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

When writing to advertisers please mention The Homestead.

POLAND CHINA SWINE.

FESENMEYER'S BIG-TYPE POLAND CHINA BOARS

I AM now offering **75 head of fall boar pigs** sired by the world-renowned **A Wonder** and **Big Joe.** These are out of my very best **Giantess, Long King, A Wonder** and **Big Joe** sows. You can buy one of these fall pigs now and you will save from one-half to two-thirds what you will have to pay for a boar next season. Buy these now and save your money. Address

HENRY FESENMEYER - - - **CLARINDA, IOWA**

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $775 and $525 prize boar in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 700 and 800 pounds. We want to sell these boars and we are pricing them at from **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing be sure mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - **CLARINDA, IOWA**

HALFORD'S
BIG-TYPE POLAND CHINA BOARS

I AM offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great prize-winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of Long Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address

R. W. HALFORD - - - - - **MANNING, IOWA**

30 IMMUNE POLAND CHINA BOARS 30

I AM offering thirty head of **Vaccinated and Immune** spring boars sired by the great **Colossal,** at **$35 each,** as long as they last. Ten of these boars will weigh 300 pounds. Also one choice fall boar. Write me quick. Address, mentioning The Homestead,

L. R. M'CLARNON - - - - **BRADDYVILLE, IOWA**

JAMES LAWLER'S IMMUNE POLAND CHINA BOARS

50 IMMUNE Poland China boars. 8 good fall boars, 42 spring boars sired by Miller's Choice 170929 bred by John Miller, and Chief Price A 173973, bred by Peter Mouw, and Giant's Equal 198449, he by Equal's Giant 184927, he by Long King's Equal 177373. Their dams include all of the best big-type breeding. They are sired by Rock Valley Chief, Expansion King Jr. 2d, Chief Price Jr., A Wonder, Big Tom and Carey's Long Wonder. Come and see them or write for prices. **James Lawler, Clare, Iowa.**

20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1 at $15 each.

H. E. BURGUS - - - **Route 6** - - - **OSCEOLA, IOWA**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them over or write. Address

J. R. HIGGINS & SON - - - - - - - - **DEWITT, NEB.**

ABERDEEN ANGUS BULLS

HIGH-classed bulls of popular families and excellent individual merit. Prices in keeping with quality. Come and see them.

CARL A. ROSENFELD - - - - - - - -

POLAND CHINA BOARS

SPRING and fall pigs of big-type strains and carrying both quality and finish. Bigness and goodness is my motto.

- - - - - - - - - - - - **KELLEY, IOWA**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - - **R. F. D. 1, YORK, NEBRASKA**

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address **J. A. BEAUMASTER, ELMA, IOWA**

35 Choice Poland China Boars 35

I AM offering 35 head of the best big-type Poland China boars I have ever raised. These go at reasonable prices if ordered soon. Address, mentioning The Homestead,

FRED SEXSMITH - - - - **ORIENT, IOWA**

SNYDER'S A WONDER FOR SALE

AN extra choice yearling boar, sired by a son of A Wonder. Pronounced by good judges to be one of the best, big, smooth yearlings in the West. Will sell for $75.00. Positively no less, and the first check gets him. Weighs 600 in good breeding shape. An excellent sire; am keeping his gilts. Mention Homestead and address.

PERRY A. SNYDER - - - - - - **CARLETON, NEBRASKA.**

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

MY Big Type Poland China boars are sired by Cox's Wonder, by Rude's Giant, and out of a Long King sow and by A. Model, grand champion of Iowa, 1912, and others. I sell at farmers' prices Write me.

B. F. MARMION - - **FARMINGTON, IOWA.**

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

Herd Boar For Sale

JUMBO 185275. Big, good, sire The Big Orphan, dam a daughter of A Wonder. Guaranteed a breeder. Reasonable price for a quick sale. Address

A. KOOL - - - - - **CORDOVA, IOWA**

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones—growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

FALL PIGS by LONG GIANT

ALSO some by Big Bone and Baird's Choice and from an excellent line of sows that I will sell at $10 to $15 per head while they last. A grand opportunity to get the blood of the best and at small cost. **G. B. Van Kleek, Central City, Neb.**

33 POLAND CHINA BOARS

EVERYTHING **Immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - **COON RAPIDS, IA.**

Poland China Spring Boars

BY Again Chief Price 192035, 2nd prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE **MAQUOKETA, IOWA**

40 SPRING AND FALL BOARS 40

THE stretchy, smooth coated, mellow kind, sired by Orange Boy (son of Big Orange). This is big-type Poland China breeding without roughness—the Expansion kind. Cut prices. Good health.

M. G. Arnold & Son, Strawberry Point, Ia.

BIG-TYPE POLANDS

FALL and spring boars now ready to ship. Sired by Highland Boy 183191, weighing 800 lbs. Just in breeding condition. My hogs are bred for size, bone and quality. Write me your wants and I can please you.

H. A. Wohlsdorf, - **R. 1, Lawler, Iowa**

30 CHOICE BIG TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D 189573, a son of the great A Wonder 107353.

William Drummy - **Ryan, Iowa**

BLUE VALLEY HERD OF
POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, and a few are by the champion, Columbus. We are naming low prices to move this stock. Mention the Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for discription and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.

A. ROESLER, - - - **WILCOX, NEB.**

EXTRA BIG, IMMUNE POLAND BOARS

WE have for sale a very choice lot of big, heavy boned boars, sired by Herod 2nd, and also some few litters bred by Peter Mouw. These Herod 2nd pigs are headers for the top herds. If in search of the extra big, also the smooth sort, write me. Mention Homestead and address

W. H. DEIGAN - - - **RAYMOND, NEBRASKA.**

Naiman's Immune Poland China Boars

OUR boars are all immune, and we will make good any hog that dies with the cholera. They are principally the get of Naiman's Expansion, and this boar is also for sale. He is big and smooth and a sure breeder. Write me today for a bargain in Poland Chinas. Mention The Homestead and address

JOHN L. NAIMAN - - - - **ALEXANDRIA, NEB.**

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

THE BIGGEST POLAND CHINAS

THE biggest breeding known, and of the very best type of the big ones, are the sort of boars we are offering. Early spring boars by Old Reliable by Long King. Also some by a son of Big Orphan and Bonapart by Nig Jumbo. Sows by Roesler's Giant by the 1,050 pound Long Chief. Mention The Homestead and address

WARP BROS. - - - - - - - - - **MINDEN, NEBRASKA.**

FALL PIGS BY BLUE RIBBON HASTINGS

AT $10 to $15. An extra choice lot of fall pigs sired by the great Poland China boar. Blue Ribbon Hastings. He is one of the best bred boars in use anywhere and is a pleasing individual and always a winner where shown. Also spring boars to close out very cheap. Have saved only the tops of the spring crop. Write me today, address

W. J. EAVEY - - - - - **GENEVA, NEBRASKA**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead.

WM. KEEP - - - - **ATLANTIC, IOWA**

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART** - - - **HARLAN, IOWA**

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - **OCHEYEDAN, IOWA**

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

GOOD LUCK HERD
POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson of Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - - **LISBON, IOWA**

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, **Plattsmouth, Nebraska.**

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

OUR EXCEPTIONALLY good fall of 1912 boars at $30 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Big Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - **GRINNELL, IOWA**

McCurdy's Giant Polands

SOME of the biggest, heaviest boned boars to be found anywhere, and they are of the very largest breeding. If you want big ones that are smooth, write me. I will save you money. Address

WM. McCURDY - **TOBIAS, NEB.**

CHESTER WHITE SWINE.

SUNNY SLOPE CHESTER WHITES

160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
W. E. GAFFEY - - - - - STORM LAKE, IOWA

CENTRAL IOWA HERD CHESTER WHITES

125 HEAD of spring pigs of both sexes to select from. Also booking orders for fall pigs to be shipped at weaning time. Have six male pigs, one year old the middle of Sept. Will ship on approval. Write or come and see me.
G. O. SATRE - - - - - - JEWELL, IOWA

C. C. EVANS

LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa

Prize-winning Chester Whites

A FINE lot of extra choice spring boars, also gilts and sows for sale. Mostly the get of the great Keep On Winner. Write today.
H. L. BODE - - - FRIEND, NEB.

BIG, SMOOTH CHESTER WHITES

WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

MURRAY'S CHESTER WHITES

CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
CHAS. H. MURRAY - FRIEND, NEB.

Crosier's Chester Whites

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

DUNBAR'S CHESTER WHITES

16 BEST boars I ever raised. March and April farrow. Cholera immuned. Prices reasonable. Also a few choice gilts for sale. Write me at once.
W. H. DUNBAR - JEFFERSON, IOWA

BURT'S CHESTER WHITES

18 CHOICE Spring Boars ready for service. Could spare a few gilts, also fall pigs.
B. R. BURT, COGGON, LINN CO., IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

Bloom's Chester Whites

25 HEAD of choice fall boars by Pathfinder 2d, Pride of the West and other good boars. Size, heavy bone and good. Immune from double treatment. Call and see these hogs or write to
EARL BLOOM - BRIDGEWATER, IOWA

FULL BLOOD guaranteed Chester White boars and sows for sale. Address Lock Box 73, Radcliffe, Ia.

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

IMMUNE CHESTER WHITES---SPRING and yearling boars at reasonable prices. C. F. Sealock, Neola, Iowa.

O. I. C. Boars or Gilts priced right. Address W. P. Doolittle, Woodland, Missouri.

O. I. C. boars, gilts and sows. Good bone and ham, at right prices if taken soon. Geo. W. DeBar, Aurora, Iowa.

TAMWORTH SWINE.

TAMWORTH SWINE

KNOLLSLOPE FARM offers you Breeding Stock that prove profitable. Boars and gilts, no kin, all of high quality. Express office, Iowa City, Iowa.
C. C. ROUP - - KALONA, IOWA

TAMWORTH BOARS

I HAVE ten choice spring boars, also one tried boar for sale. Prices reasonable.
Eugene Holden, R. 1, Williamsburg, Iowa

MAPLE GROVE HERD OF TAMWORTH SWINE

SPRING boars, weight from 150 to 200 pounds, at $20 to $25. **F. J. McKeever, Ryan, Iowa.**

TAMWORTHS Spring boars and fall yearlings; a few choice gilts. Address Vane Coen, Afton, Iowa.

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address
H. MEYER, STAPLEHURST, NEBRASKA

Turner's Immune O. I. C.'s

I HAVE twenty 200 lb. spring boars that absolutely must have a new home. They are by prize-winning sires and from an excellent bunch of sows. Write me if you wish a bargain. I will give you one.
AMOS TURNER - WILBUR, NEB.

CHESTER WHITE BOARS

FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vandersluce Bros., Cheney, Nebraska

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

BARR'S CHESTER WHITES

VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
W. T. BARR - - AMES, IOWA

PLAINVIEW CHOICE BOARS

CHESTER White fall and spring boars by the great Plainview Choice. Also some Shorthorn bulls by Diamond Digger by Diamond Goods. **CHAS. A SLEPICKA, TOBIAS, NEB.**

CHESTER WHITE SPECIALS. Some extra choice boars, well bred, well grown at $22.50 to $50.00. Two excellent fall boars at this price. Address Harry J. Anderson, Beaver Crossing, Neb.

LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

ROGERS' O. I. C.'s Positively as good as any. Prices moderate. For an extra select boar, write N. R. Rogers, Peru, Neb.

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

G. H. TUTT, Marathon, Iowa, breeder of Chester White hogs. Herd immuned and in good health. Big, good, and well bred spring boars for sale. Prices reasonable.

CHESTER WHITE SWINE.

30 CHOICE FALL BOARS

SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by High Style, International King, International Boy, Combination III, Village Boy and Combination's Favorite.
BRED SOW SALE, FEBRUARY 27, 1914
Please paste this in your hat. Anything in the boar line sent on approval. Address
J. L. BARBER - - - - - HARLAN, IOWA

BOARS! BOARS!! BOARS!!!

I HAVE decided to cut prices on Chester White boars and gilts for the next 30 days. These pigs are sired by three different boars. Have the length, good bone, good backs with the very best of heads and ears. Weight from 150 to 300 lbs. If you want a boar or gilt at a little above market price, write at once. Anything shipped on approval. **Harry Hurless, Ogden, Iowa.**

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead,
WM. A. HOOVER, OSKALOOSA, IOWA

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent young boars, some choice herd headers. Also 50 good spring boars. These pigs have been immuned. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - DENISON, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - PRESCOTT, IOWA.

GRAND VIEW CHESTERS

GOOD ONES. March and April pigs sired by **Good Goods 21423** and **White Wonder 22581. Bargain Prices** for 30 days. Shire stallion and mares for sale of the best breeding. Aberdeen Angus cattle, either sex, for sale.
T. A. STEVENSON - - - SHANNON CITY, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - ELLSWORTH, IOWA

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

I SHIP C. O. D.

CHOICE Chester White swine. Either sex. Pairs, no akin. On account of dry season in this section and must buy feed I am offering choice, growthy spring pigs of best breeding at special low prices for thirty days ending November 15th. Also booking orders for fall pigs at $5.00 each, crating and pedigrees free. I have new blood for old customers.
GLENN F. RIDER, FARMINGTON, IOWA

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - FARMINGTON, IOWA

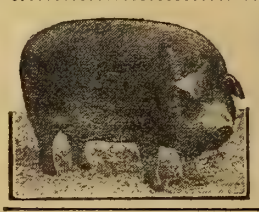
Stewart's Immune Chester White Boars

I AM offering 60 head of the best boars you have ever seen for the money, sired by my splendid herd boars Iowa Boy and Crescent. These have all been vaccinated and are immune. Write me at once for description and prices, and mention Iowa Homestead. Address
J. H. STEWART, - - DICKENS, IOWA

Nagle's Prize-Winning Chester Whites

WE have a fine lot of boars and gilts sired by our Prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
E. L. NAGLE & SON - - - - - DEEP RIVER, IA.

DUROC JERSEY SWINE.



BIG DUROC BOARS BY WILSON'S DEFENDER

I HAVE an extra good lot of big, smooth, heavy-boned boars of spring farrow sired by Wilson's Defender and Wilson's Crimson Wonder that I am **SELLING AT $25.00.** These pigs weigh from 175 to 200 pounds. I have 3 yearling boars by Wilson's Defender that are good at $50 to $75. Yearling sows by Wilson's Defender and Crimson Wonder I Am; gilts by Wilson's Defender and Wilson's Crimson Wonder, bred or open. Wilson's Defender and Select Model by Golden Model at the head of my herd. All my hogs have had the **double treatment** and are immune from cholera. I guarantee satisfaction on mail orders. Mention Homestead when writing. ½ mi. N. of town. **I. J. WILSON, WEST BRANCH, IOWA**

30---HIGH-CLASS---30 DUROC JERSEY BOARS

I HAVE nine splendid fall boars, three extra choice ones, sired by C. H.'s Special, two by Crimson Wonder Again, one by Col. Gano, and twenty extra choice spring boars by the Champion Crimson Wonder 3rd and the 1,000-pound boar, C. H's Special. I also offer 10 choice sows bred to the 1000-lb boar, C. H.'s Special and the grand champion, Crimson Wonder 3d. Write me at once and mention The Homestead. Address,
P. W. WEBERG - DENISON, IOWA

Duroc Jersey Sale

ON November 11th I will sell at public auction 36 Duroc Jersey boars. Two fall boars and 34 spring boars, several of which weigh 300 lbs. I breed for size, bone and quality. Write for catalog, mentioning The Homestead.
HUGH M. FICKE - LONG GROVE, IA.

100 Immune Duroc Boars

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address
C. C. CROCKER - FILLEY, NEB.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - DAVIS CITY, IOWA.

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcolm, Nebraska.

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - ALGONA, IOWA

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

IMMUNE RED HOGS

DOUBLE TREATMENT
Crimson Wonder and Ohio Chief Strains
GEO. T. WHITE DALLAS CENTER IOWA

W. W. Scott, Calamus, Ia., breeder of Duroc Jersey hogs. Spring pigs of both sexes for sale. Will weigh 200 lbs. or better. Bred sow sale in Jan.

S. E. EAKLE & SONS,
PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfeld's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

BELLOWS' DUROC JERSEYS

A NUMBER of choice boars by Proud Crimson Lad, also some by Model Chief 8th and a litter by Missouri Lady and sired by Crimson Wonder Again. Nothing better to be had. Write for prices at once. Address
OTTO R. BELLOWS - - FAIRMONT, NEB.

DUROCS FEBRUARY and March males and gilts, lengthy and heavy boned, at reasonable prices. B. B. McAlister, Blakesburg, Iowa.

Mention The Homestead when writing.

DUROC JERSEY SWINE.

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col. and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. These boars have size, bone, quality, combined with breeding that is right. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address
HANKS & BISHOP - - - - - - - **NEW LONDON, IOWA**

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN **R. F. D. 7.** **LINCOLN, NEBRASKA.**

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freeds' Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - - **GRISWOLD, IOWA.**

20 Immune Duroc Jersey Fall Boars 20

THESE are extra choice boars sired by Golden Model 3d and out of my best sows—50 spring boars sired by **Golden Model 3d, C. & E.'s Prince of Cols. and G. C.'s Col.** Pricing these $25 to $50. Everything has been vaccinated and are immune. Order at once. Address
GEORGE C. EVERTS - - - - **AUDUBON, IOWA.**

Duroc Jersey Boars From Van Patten's

BOARS by the great Uneeda Crimson Wonder and Model Wonder, also a few by Queen's Col. These are from one of the oldest established herds of America and from a grand lot of sows. These herd heading boars go at farmers' prices. Let us have your order at once. Address
G. VAN PATTEN & SON - - - - - - - **SUTTON, NEB.**

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you if you come to the farm. Address
J. B. ASHBY - - - - - **AUDUBON, IOWA**

30 HIGH-CLASS DUROC JERSEY IMMUNE BOARS---30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, A.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
R. F. AIKMAN - - - - - - **AUDUBON, IOWA**

40—BIG-TYPE DUROC JERSEY BOARS—40

SIRED by Crimson wonder Chief, San Salvador and Cherry Chief, and from sows sired by Crimson Wonder I Am, Belle's Colonel, Proud Colonel, Blue Ribbon Chief and other noted hogs. These boars are March and April farrow and weigh 160 to 200 lbs. They have good neat head and ears, broad arched backs, thick deep hams, are a deep cherry red in color and as smooth as a ribbon. Price $20 and $25 each.
R. H. DE VAULT - - - - - **BLOOMFIELD, IOWA**

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address **F. H. DICKEY, EMMETSBURG, IOWA**

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - - - **SYRACUSE, NEBRASKA**

DUROC JERSEY BOARS

I HAVE a fine lot of spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - **VICTOR, IOWA**

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Pride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Sittyton Duke the 6th for sale.
B. W. LITTLE, R. 7, JANESVILLE, WIS.

IMMUNE DUROC BOARS FOR SALE

VACCINATED by double method. Four head of fall yearlings and 25 big, growthy, spring boars. Herd boars, Clover Dale Chief 117753 and Lincoln Model 133869. Dams of best breeding. Visit or write
U. G. BURTON - STORM LAKE, IOWA

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Superba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - **RYAN, IOWA**

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - West Liberty, Iowa

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

DUROCS---April Pigs For Sale

Good lengthy boars and gilts of the best breeding.
L. L. WOODS - - - **GRINNELL, IOWA**

DUROC BOARS Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model II., Crimson Ohio Chief, Crimson Chief II. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - **FREDERIKA, IOWA**

50 Immune 50

DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

DUROC JERSEY BOARS

OF March and April farrow, sired by Protection's Medium by Chief Protection and Model Select by Chief Select. The dams are of Muncie Chief and Crimson Wonder Again breeding. Prices reasonable. Write me before you buy.
WARREN HUGHES, LITTLEPORT, IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - **DICKENS, IOWA**

DUROC GILTS, $15 to $30

I HAVE a choice lot of early and late spring gilts; also some fall gilts that I will sell at above prices. Will also breed them for small sum additional. A few spring boars. Address
WM. RETZLAFF, BENNETT, NEBRASKA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - **WOODWARD, IA.**

BIG DUROCS by J. E.'s Model King by King The Col. Write for prices at once.
J. E. HENSLEY - CENTRAL CITY, NEB.

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief 2d and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - **FAIRFIELD, IOWA**

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - **DE WITT, NEBRASKA**

BRIGGS' DUROC JERSEY BOARS

50 CAREFULLY selected, cholera immune, Duroc Jersey boars, sired by Cleatham's Pride, always a prize winner, Crimson Wonder 4th, first Nebraska, 1911, Queen's Crimson by C. W. Again and Belle Wonder. Positively everyone a good one and will weigh from 200 to 250. Write us today and mention The Homestead.
GEO. BRIGGS & SONS - - **CLAY CENTER, NEBRASKA.**

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - **STORY CITY, IOWA**

60 EXTRA CHOICE CHOLERA IMMUNE DUROC JERSEY BOARS

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select,** and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Everything in herd vaccinated. Will guarantee everything to live 30 days or will refund one-half of purchase price. Ready to ship at any time.
H. S. FAIN EMMETSBURG, IA.

40 DUROC JERSEY BOARS FOR SALE

I AM offering 15 good fall boars and 25 spring boars for sale, sired by the 1,000-lb. boar, **C. H.'s Special, Model Advance, Grand Chief, King The Col.** and **Gold Dust Prince.** Spring boars $25.00 if ordered right away. Mention Iowa Homestead when writing me. Address
B. W. HUNT - - - - - - - - - **DENISON, IOWA**

MERRICK'S DUROC JERSEY BOARS

ARE the kind that will make good on your farm. They are as well bred as possible to obtain and they are individually of the right sort. Farmers' prices will take these good ones if ordered at once. Write for prices and description at once. Address, mentioning The Homestead,
F. E. MERRICK - - - - **OSCEOLA, NEB.**

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - **MARQUETTE, NEBRASKA.**

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - **IRETON, IOWA**

25 Immune Duroc Jersey Boars---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address, mentioning Iowa Homestead
E. A. CALKINS - - - - **RUTHVEN, IOWA**

TRULY A CRIMSON WONDER

FOR SALE

THIS great son of **Crimson Wonder Again** and **H. A. Queen's,** a great herd boar. Also 15 choice spring boars. Price $30 to $40. Come and see me at once.
SILAS IGO - - - **INDIANOLA, IOWA**

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - **ALEDO, ILLINOIS**

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - **AVOCA, IOWA**

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - **Rose Hill, Iowa**

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
Wm. BAUER - - - **AUDUBON, IOWA**

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

Special Prices on Durocs Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

DUROCS Mar. Pigs for sale. Long, heavy-boned boars and gilts of good strains. Jos. Shradel, Riverside, Iowa.

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - **AMES, IOWA**

Boars For Sale

Sired by CRIMSON WONDER AGAIN

MODEL Chief 8th and Cherry Chief. Big, husky fellows with bone and size. Priced to move them. Address
H. S. ALLEN - - **RUSSELL, IOWA**

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & L. Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - **Sheldon, Iowa**

15 HEAD IMMUNE DUROC JERSEY BOARS

I AM offering 15 good boars. All **vaccinated and immune.** Sired by I Am Muncie. These are good boars. Price $25 and $35. Send your order at once. Address **J. F. Kerns, Holstein, Iowa.**

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - **LAMONI, IOWA**

25 DUROC JERSEY BOARS 25
25 DUROC JERSEY GILTS 25

LARGE, growthy, heavy bone. Everything guaranteed as represented. Best breeding, $20 to $30. Correspondence solicited. Address
W. J. HARTUNG - **MAXWELL, IOWA**

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

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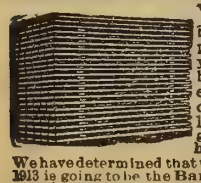
You are safe when you deal with us. Our capital stock is $10,000,000.00 and 20 years of honest dealing have earned a place for us in the public confidence that is unquestioned.

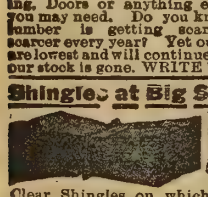
Lumber Prices S-m-a-s-h-e-d



Yes, we mean smashed. Absolutely busted to pieces. That's our policy. We quote prices on lumber that will positively save you big money. If you will send your lumber bill we will send you a freight paid estimate that will mean a saving to you of from 30% to 50%. Every stick is absolutely first class, brand new and fully up-to-grade such as you would buy from any reputable house in the United States.

We have determined that the Fall of 1913 is going to be the Banner Season in our great lumber department. We have on hand 20,000,000 feet of high-grade lumber suitable for the construction of Buildings, no matter for what purpose intended. Come to our great yards in Chicago and let us show you this stuff actually in stock. No other concern in the world has a more complete stock of everything needed to build, whether Lumber, Shingles, Structural Iron, Plumbing, Heating, Doors or anything else that you may need. Do you know that lumber is getting scarcer and scarcer every year? Yet our prices are lowest and will continue so until our stock is gone. WRITE TODAY.

Shingles at Big Saving



We have a special lot of 1,000,000 5 to 2 10 inch Clear Shingles on which we are making an exceptionally low price of $2.99. Order by Lot No. M. S. 40.

This Door at 98c

Lot MS-39. Four panel painted door, size 2 ft. 6 in. x 6 ft. 6 in. 500 in stock. A high quality door for the price. This is only one of our many special bargains. Our grand Building Material Catalog and Bargain Sheets will show a full line of Inside Millwork of all kinds.

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You can buy a carload of Building Material from us without paying us one cent in advance. All we want to know is that the money will be paid us as soon as the material is received, unloaded and checked up. Our terms are more liberal than anyone else offers.

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Now operated under the name of

HARRIS BROTHERS COMPANY

FOR twenty years the CHICAGO HOUSE WRECKING COMPANY has been well and favorably known to the public. During all these years the four Harris Brothers have been the executive officers and owners and for that reason have finally decided to operate under the name of HARRIS BROTHERS COMPANY.

There is no change in our business, except that in the future the four Harris Brothers will advertise and sell their goods, heretofore advertised and sold under the name of the CHICAGO HOUSE WRECKING COMPANY, under the new name of HARRIS BROTHERS COMPANY.

Why We are Called the Great Price Wreckers

Consider what becomes of the stock of goods, when a manufacturer or big retail merchant goes bankrupt or "busted" as the saying goes. It is estimated that about ten thousand merchants annually meet with business disaster—this is why our company exists. If the stocks are sufficiently large and the goods are new and desirable, they find their natural way to our great forty acre plant for distribution at a small added profit, to our thousands of customers, who in this way get the benefit of wonderful bargains. In many cases our prices do not even represent the original cost of production. We stand foremost in our line. We recognize no competition. That's why we are called "THE GREAT PRICE WRECKERS."

Our Binding Guarantee

We guarantee absolute and complete satisfaction. There is no half way about this guarantee. Every purchase you make from us will be exactly as represented and you will be satisfied in every way, or we will make such just amends as are within our power. We will take back any unsatisfactory article at our freight expense both ways and refund your purchase price. We refer as to our responsibility to the publisher of this or any other publication or any bank or express company and to the public at large.

We Sell Practically Everything

Our stock includes practically "everything under the sun". It's in truth, from a needle to a locomotive. No matter what your vocation, or what position in life you occupy, or what your business, or how great a merchant you are, you have use for us, and we have the goods that you can buy from us to a decided advantage. The quicker you learn to recognize this fact, the sooner you will be "putting money in your pocket."

Our stock includes Building Material, Lumber, Roofing, Sash, Doors, Millwork, Wire and Fencing, Hardware, Plumbing Material, Heating Apparatus and Supplies, Furniture, Household Goods, Rugs, Stoves and everything needed to furnish or equip your home, your club or hotel. It includes Groceries, Clothing, Dry Goods, Boots and Shoes, Furnishing Goods and every single article to clothe a man, woman or child. It includes Sporting Goods, Fishing Tackle, Hunting Outfits, Tents, Guns, Harness and Vehicles, Jewelry, Sewing Machines, Clocks; also structural iron needed in construction of buildings, bridges, etc. Machinery, gasoline, gas and electric power outfits. In fact you cannot think of a single manufactured article that we cannot supply you at a saving in price. Let us convince you—it means but little effort on your part to prove the truth of all we say. Write us to-day for our Catalogue and literature. Fill in the coupon shown below.

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This is Our House No. 6A.

A beautiful up-to-date full 2 story, 7 rooms and bath, home. Has been sold over 400 times. Copied and imitated all over the U. S., but our price and quality cannot be equaled. The price is easily 25% to 50% below local dealer's prices.

Immediate shipment right from our Chicago stocks, where you can come and see it loaded. *NO MONEY DOWN.* $2.00 buys perfect Blue Print Plans, complete specifications and detailed descriptive material list, with a refund of $1.50 if you do not like them.

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Great care and study has been given all our Plans. Economy is the watch-word both in materials and construction.

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Write us for letters from people in your vicinity who have bought from us. We have thousands of unsolicited testimonials.

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If you intend building, you will lose money if you don't write us at once. Tell us what you want. We will answer you promptly and give you valuable information regarding building. Send rough pencil sketch showing the kind of house you want. We will make you a freight paid price that will save you big money on material necessary to build same. Every stick first class.

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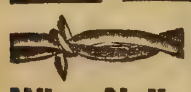
Our FREE Book of Plans

Our Book of Plans contains 120 Designs of different kinds of buildings. Everything from a 2 room Portable House for $147.50 to the finest kind of a 10 room residence.

Houses are completely illustrated showing the floor plans, prices, etc. And it's free.

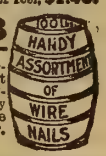
Smash Go WIRE and FENCE Prices

BARB WIRE Less Than 2c Per Rod



New galvanized, heavy weight barb wire, put up on reels about 100 lbs. to the reel. Lot 2-AD-25 per 100 lbs. **$1.95.** Galvanized barb wire, light weight, first grade, best made, put up exactly 80 rods to reel, 2-point barbs. Lot 2-AD-28, per reel, **$1.40.**

Wire Nails, Per Keg, $1.28



5,000 kegs, put up 100 lbs. to the keg mixed, all kinds together, regular nails, such as made by nail factories. Lot 2-AD-33, price per keg. **$1.28** 1,000 kegs of 10 penny-weight regular new wire nails, 100 lbs. to the keg, while they last, per keg, **$1.88.** Write for our free Wire and Fence Catalog. Gives valuable information to any land owner. Fill in the coupon below.

Smooth Galvanized Wire Per 100 Lbs. $1.13

It is suitable for fences, stay wires, grape vines or for any ordinary purpose where wire is used. This galvanized wire is irregular in length—it ranges anywhere from 50 to 250 ft. $1.13 is our price for No. 9 gauge. Other sizes in proportion.

15c Per Rod Buys Heavy Hog Fencing

Here is another one of our remarkable bargains. A good heavy fence, bought from Ohio flooded factory, perfectly adapted for hogs and general farm purposes, 26 in. high, square mesh, put up in suitable size rolls. Lot 2-AD-31, price per rod 15c. Other heights in proportion.

Staples, 100 lbs., $1.75.

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PREMIER, MICHAELSON

Our paint department is under the personal supervision of Mr. V. Michaelson, for 30 years the foremost paint man in America. His picture has appeared on over 8,000,000 cans, and his name is known from ocean to ocean. Paint of quality is his specialty. Every gallon has our strongest guarantee. Our Ready Mixed Barn Paint at 55c a gallon will outlast any similar paint produced. If you want quality paint, write us; or write to Mr. Michaelson if you prefer. Finest, most valuable paint book ever published sent FREE. Send coupon.

98c Per Gal.

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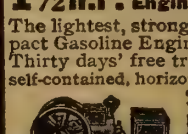
Send Us Today Your Complete List of Lumber and Building Materials for Our FREIGHT PAID PRICES.

$8.50 for a High-Grade, Sanitary, Complete Closet

Syphon acting, vitreous bowl, hardwood seat and cover. Low down, latest style, copper lined tank. Outfit is Lot 5-AD-105.

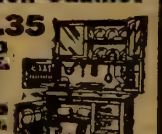
1½ H.P. Gasoline Engine $24.75

The lightest, strongest and most compact Gasoline Engine ever produced. Thirty days' free trial. It is 4-cycle, self-contained, horizontal, hopper cooled; on heavy wood skids, with battery box, shipped complete, wt. 250 lbs. Has automatic governor. Easy to start. Send for Special Gasoline Engine Catalog.



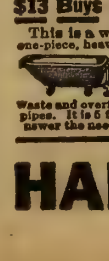
Kitchen Cabinet $17.35

$30.00 VALUE. Every Good Feature Known. See our free big book.



$13 Buys Complete BATHTUB

This is a white enameled, cast iron, one-piece, heavy roll rim bathtub; fitted with the latest style nickel-plated trimmings, including Fuller double bath cocks for hot and cold water, nickel-plated connected waste and overflow, and nickel-plated supply pipes. It is 5 ft. long and is good enough to answer the needs of any man. Lot 5AD-101.



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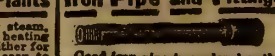
We are headquarters for steam, hot water and warm air heating plants. They are suitable either for new or old homes. It is easy to install one of these plants in your old building. For this great Fall Sale of ours we are offering a warm air heating plant large enough for the ordinary 5 room house, with all necessary plans and complete instructions for installing, for $45.00.

Iron Pipe and Fittings



Good iron pipe in random lengths complete with couplings, suitable for gas, oil, water and conveyance of all liquids; size 3-8 to 12 inches; our price on 1-in. per foot 8c; 1 1-4 inch at 4c per foot. Complete stock of valves and fittings. Send us your specifications.

AXMINSTER RUGS at 75c

We bought at New York Auction an enormous stock of high grade, brand new rugs and floor coverings. This is a sample of our money-saving bargains. Write for complete Free Rug Catalog, showing actual colors.

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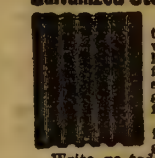
We are the World's Bargain Headquarters for the outfitting of your home, club, lodge or hotel, from the very latest to the finest. An assortment of Household Goods and everything such as will be found in no other institution in the land. Write for free copy of our Furniture and Household Goods Catalog.

Smash Go ROOFING PRICES

Galvanized Steel Roofing Is Fire, Water and Lightning Proof



We bought 20,000 squares of this Corrugated Iron Roofing, which we offer at this remarkably low price. It is new, perfect, and first-class, but light weight. The sheets are 22 x 24 in. x 1¼ in. corrugated. Our price of $1.25 per sq. is f. o. b. cars Chicago.

When ordering this item, specify Lot No. AD-700. This is not galvanized, but black steel roofing.

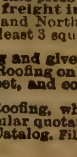
$1.25 per 100 sq. ft. buys best steel roofing

Write us today for our special FREIGHT PREPAID PRICES on new, galvanized roofing. We are offering prices lower than ever before offered in the roofing business. Galvanized roofing at $2.75 per square and up. Ask for free samples.

We can furnish anything needed in Roofing, Siding or Ceiling.

62 CENTS PER 108 SQUARE FEET BUYS BEST RUBBER SURFACED "AJAX" ROOFING

Here again we show the lowest price ever known for roofing of quality. This smooth surfaced roofing we are offering is our one-ply "Ajax" brand, and the price includes necessary cement and caps to lay it; this price is f.o.b. Chicago; at 75c per square, we pay the freight in full to any point East of Kansas and Nebraska and North of the Ohio River, provided your order is for at least 3 squares. Prices to other points on application. This roofing is guaranteed to wear as long and give as good service as any Ready Rubber Surfaced Roofing on the market. It is put up in rolls of 108 square feet, and contains 3 to 4 pieces to the roll.



We have other grades of Ready Roofing, which we offer at prices easily 30 per cent below regular quotations. Write to-day for free samples and Roofing Catalog. Fill in the coupon.

50,000 Bargain Catalog FREE

Greatest of all bargain books is our Great Wonderful "Price Wrecker". It is a book of 1000 pages, with wonderful illustrations, and with clear, frank statements explaining exactly the nature of the goods we have for sale, and quotes them at the lowest possible prices. It is a book of real merchandise truths—tells you the facts so plainly that you cannot misunderstand us.

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- ☐ Roofing, Siding and Ceiling
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- ☐ Paint

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Reading Room
Agricultural Hall
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The Iowa Homestead

THE GOLDEN HOOF

I'll Trade You a Galloway Manure Spreader Any Time for 400 Bushels of Corn! Read This Letter.

Here's One Man's Experience With a Galloway

I owned a six hundred acre tract of land and had it rented. The renter neglected to haul the manure out as it occupied a great deal of time in the old fashioned way of spreading with a fork. So in 1908 I decided to purchase the GALLOWAY SPREADER and put a man to work for one month. He hauled on an average of twenty loads per day. He hauled five hundred loads or more, about two-thirds more than the original way. I had even the old stack bottoms spread over the fields. We started on forty acres and manured twenty, that was in the fall of 1908. We put the forty in corn the next spring and **the twenty that got the manure yieided twenty bushels more per acre than the other twenty beside it on ground not manured.**

Both the renter and myself were well pleased with the results and the next spring, 1909, we decided to utilize all manure we could as it required so little time to use the GALLOWAY SPREADER as it takes about three minutes to distribute one load, and it takes thirty minutes or more the old fashioned way, then we get it more even and the manure went twice as far. I noticed in going over another farm, that I oversee, where there is no spreader provided, the manure was in chunks, other places were barely getting little orno good of the fertilizing. **The hay on the meadow yielding one-third more where we used the spreader.**

And in the fall of 1909 we manured ten acres for corn and when gathering this fall **we gathered from one-third to one-half more corn to the acre than heretofore, enough or more than enough to pay for a GALLOWAY SPREADER.** The land beside the ten acres was just as good, but did not yield but one-third as much. We tried it again on meadow land with good results.

FRANCIS E. CROUCH, Blockton, Iowa

Are You A Land Owner? Are You A Renter?

Then read this remarkable letter from an up-to-date, progressive farmer. Yes, sir, read it over twice---three times---a dozen times. Read it over and then think it over—it's the most unusual—the most remarkable—testimony on manure spreaders ever written. Why? I'll tell you why! Because, here is the case of a large landowner furnishing his renter not only with a manure spreader but with a man to run it at his own expense in order to get the manure out on his land and keep it in good condition. Did you ever hear of a similar case? I never did. I've heard of landowners buying spreaders for their tenants, but never before hiring a man to do the work.

Did it pay? I should say it did! Ask Mr. Crouch or his tenant. Will it pay you? I can show you thousands of letters from my customers that prove a Galloway Manure Spreader to be the best machinery investment they ever made. Yes, sir, it will pay you and pay you big. You can't afford to be without one.

Let me tell you something. There are millions of acres of land in this country today starving for want of manure—land that would pay a profit with the aid of manure and a manure spreader. There are a million and more farms in this country today without a manure spreader running at a loss that would pay a profit if the owner or renter would invest in one. That's what it is—an investment—a big dividend producer for any farm.

Now, I am dead in earnest about the proposition I made you at the top of this page. I am dead in earnest on this manure spreader proposition. I believe the manure spreader is the most needed tool on the farm. **No farm can afford to be without one.** Yes, sir, **I'll trade you any style or make of Galloway Spreader you want any time for 400 Bushels of Corn.**

Will you do it? Never! Of course you won't because I'd be getting the long end of the deal. **I know it!** But, that's just what the Galloway Spreader did for Mr. Crouch; produced 20 bushels more corn to the acre on 20 acres on the same identical ground—than he raised on twenty acres where he didn't use the spreader. Paid for itself the first season. Didn't it? And then paid good big interest the next season on his hay land. It will pay you just as well. Mr. Crouch could better afforded to have traded me 400 bushels of corn for his spreader than to have done without it for, it made him that much and more the first year, — while he has the use of the machine for years to come. So can you or any other man afford to take me up on my one-sided offer, but I don't ask it. No, sir, I don't ask one-fourth that much. My prices are so low and my direct from factory terms so liberal that any man can afford a Galloway Spreader.

Now here's the point. It doesn't make any difference whether you are a landowner or renter, you can't afford to be without a manure spreader—not for another day. If you're a landowner it will pay you a bigger profit out of your land and raise its value. If you are a renter it will help you pay the rent and make a bigger profit besides. The manure spreader means the same thing to either landowner or renter. **Bigger profits at the end of the year.**

That's not only my word for it—but, the word of thousands of business men farmers. A lot of them at first didn't believe their Galloway Spreaders would make them the profit I said they would—that today wouldn't sell their spreaders for many times what they cost if they couldn't get another one.

Borrow the money at the bank if you have to and buy one—or better still write me for my liberal time payment terms and let the spreader pay for itself. It will do it. Now, just note my new low prices on Galloway spreaders. Get my new catalog giving all the facts. Just fill in coupon below. Do it now.

WRITE ME TODAY For My NEW CATALOG Do It Now!

My Direct From Factory Prices Save You $25 to $45

$39.50 CASH WITH ORDER PRICE

Buys My No. 0 Wagon Box Spreader--- The Lowest Price Ever Made On An Attachment Spreader

My No. 0A Complete 50 Bus. Spreader Only .... $64.75 CASH WITH ORDER PRICE

The Lowest Price Ever Made On A Complete Manure Spreader

My spreader prices are slashed clear to the bone. You have never before in history had an opportunity to purchase a strictly standard, high quality spreader at such a never-before-heard-of price. Yes, sir, right at the start I will save you from $25 to $45 on the manure spreader you buy of me. Isn't this money worth saving? It certainly is and I know every business man farmer is going to take advantage of these new low prices. Investigate! That's what I want you to do. The more you investigate my prices, my spreaders and my direct from factory, one-profit-plan of selling the better I like it. It means in the end just one thing sure—a new customer and a new friend of the Galloway Way. Remember, my new low, unequalled prices are made possible by my dealing right direct with you—cutting out all middlemen's profits, all salesmen's expenses and dealers' bad debts. When you buy of me direct from the big Galloway Chain of Factories you have only one small manufacturer's profit to pay in addition to the actual cost of materials and labor that enter into the construction of my machines. Then back of every spreader I sell goes a strictly 5 year guarantee on materials backed by a $25,000 legal bond. With the most liberal **free trial offer** ever made. My spreaders must please you absolutely after a thorough test on your own farm or you can return them and I will refund your money and pay all the freight. Can you beat this offer? Never! Try the Galloway first, before you think of buying any other style or make of spreader.

Nine Different Styles and Sizes to Select From

You will find just the size and style spreader you want for your farm in the complete Galloway line at a price that will tickle your pocketbook. My attachment or wagon-box spreaders are the only successful wagon-box spreaders made, for their patented adjustable features are necessary. No other make or cheap imitations have these features. Remember the Galloway is the first and original wagon-box spreader. More of them in use today than all other makes combined. They will fit any style of farm wagon gear or truck. Four styles and sizes to select from.

My Complete Spreaders are unequalled—Trucks are detachable and can be used for other purposes. Three styles and sizes to select from. My big Jumbo, 80-bushel capacity spreader is a giant among spreaders and sells for only $93.50 f. o. b. Waterloo. My low-down, semi-underslung spreader is the last word in manure spreader construction. Light draft, two horses will handle it easily, large capacity, equipped with the proven Galloway features of mechanical construction—in a class by itself. Get my new catalog showing all my different styles and sizes. Do it now.

Trucks Detachable. Saves You $35 to $50

Don't forget this great fact. When you buy a Galloway Complete Spreader—My Famous No. 5, 60 and 70 bushel capacity machine for instance, you get a regular standard, wide track farm truck that you can use for other purposes. It is equipped with patented adjustable bolster stakes so it will take a regular wagon box, hay or hog rack or you can use it for hauling logs, etc. My spreader trucks are the best and strongest farm truck on the market. Made almost entirely of steel with flexible front trucks—cut under type. You can't buy their equal at a dealer's for less than $45 to $50. You save that much by buying your complete spreader of me, for I save you the price of an extra farm truck. These spreader-trucks are guaranteed to carry 6,000 pounds. Both my spreaders and trucks are sold under the strong Galloway Guarantee of your money back if not satisfied. Try them 30 days on your own farm, entirely at my risk with the money in your own pocket. Get my new special **30-day Free Trial Offer.** The most liberal offer ever made. Write me today for my catalog and full details of my offer.

Get My Special Offer

Then as a final clincher I have a new, special, cooperative, profit-sharing offer to make you that simply can't be beat. It will help you get your spreader partly or entirely without cost to you in the end. No canvassing or soliciting. Just the simplest business proposition you ever heard of. Write me today for my new spreader catalog and I will give you full particulars of my offer and send you also **Free** my valuable book of information "A Streak of Gold" which is worth the price of a manure spreader to you any time if you follow its common-sense suggestions on the proper use and care of manure. It's brim full of valuable information on this important subject. Send for my catalogs. Do it before you lay this paper down. Just fill in, tear off, and mail free catalog coupon or write me a postal. Address

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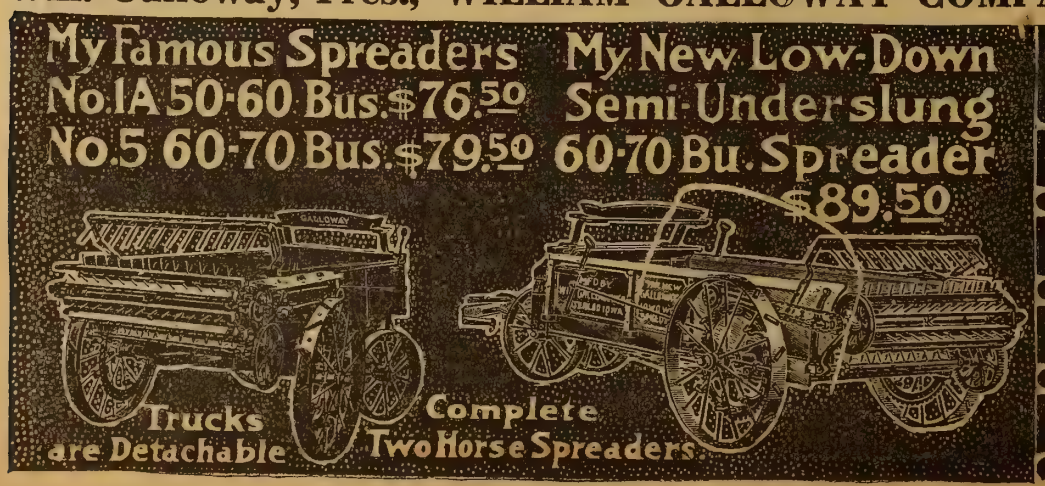

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, NOVEMBER 13, 1913.

A Practical Study of Failures to Get a Stand of Clover or Alfalfa

By C. S. Ellis

A FAILURE to get a stand of clover or alfalfa is not without a definite cause and it therefore becomes the the duty of every farmer who would be an enthusiastic and successful grower of either of these valuable crops to fully acquaint himself with the likely causes of a failure to get a good stand of clover or alfalfa and to do so economically and profitably with as little outlay for expense and labor as possible. This is not to say that the crop might not be worth all it costs to get it, but rather that we might use the time in tending some other paying crop or crops and that we might use our capital to the best advantage. The failure of clover or alfalfa to produce satisfactory results should be taken as a timely warning that something is wrong with the present system of farming operations and steps should be taken at once to find the trouble and to effect a remedy.

We cannot discuss all the problems of successful farm management in a paper of this sort,but we shall in stead discuss rather briefly some of the conditions which to the wrier's mind embody most of the common causes of clover and alfalfa troubles, and which we shall take up in the following order:

First, depletion of the original humus supply of the soil or loss from heat and drouth; second, winter killing; third, poor seed; fourth, lack of nodule forming bacteria; fifth, inadequate drainage; sixth, weeds; seventh, acidity of the soil or lack of lime; eighth, unsuitable soil—lack of one or more of the elements of plant food in soil.

One of the causes of clover and alfalfa failure which is coming to be recognized more and more is that of the depletion of the original humus supply of the soil by the continual croppings and insufficient returning of the same to the soil by means of manure and other vegetable matter. Depleting the soil of humus makes it less retentive of moisture, a serious defect in time of drouth, reducing the vigor of the plants and causing them to be more suceptible to the attacks of disease or insects and ill effects of heat and drouth. Then, too, when sown with a heavy nurse crop, clover and alfalfa are often put to a decided disadvantage, especially during the hot and dry weather of mid-summer when the maturing grain is demanding considerable moisture at this time, to the detriment of the crop which it is to give way to. At this season, too, it is usually the driest as well as the hottest, so that when the grain is harvested and the weakened clover plants are left exposed to the hot sun's rays and the drying and withering action of the winds, they are often unable to adjust themselves to the new conditions and die out or perhaps greatly shatter the prospects of a good stand.

AN EIGHTEEN-INCH SECOND CUTTING OF ALFALFA.

Where clover or alfalfa is inclined to winter-kill it is usually due to severe freezing, to smothering or to heaving of the soil. The best precaution which can be taken against injury to these plants by freezing is that of allowing a fairly good growth of the crop to remain in the fall to wither and lodge and serve as a natural mulch for the protection of the crowns of the plants and the roots as well. A covering of snow would answer the same purpose, though, owing to the uncertainty of it, it is best to provide a more sure means of protection. Care must be taken, however, not to get a little anxious about the welfare of the clover crop and to leave too much of it on the ground, as it frequently occurs that with a thick covering of snow or sleet in addition to the dense mass of cured vegetation the crop will be smothered. Six to eight inches high will be sufficient growth for the protection of the plants, depending upon the density of the stand, a thin stand being in less danger of smothering than a thick stand, consequently it could grow more rank than where the stand was quite thick with equally good results.

The lack of sufficient humus in the soil is not only a serious drawback during the hot, dry summer, but also during the winter, as well, when it permits of the heaving of the soil and the snapping of many of the tap roots of the clover and alfalfa plants. One writer states that a soil well filled with humus is "drier in wet weather, wetter in dry weather, warmer in cold weather and colder in warm weather." At any rate humus aids in the ventilation of the soil and in the water-holding and water-disposing properties of the soil and thus making it more elastic and easier to work and get in proper tilth. The freezing of the soil-water and its resultant expansion is bound to bulge the soil and to cause it to heave and snap the tap roots of the entrapped plants. Soil filled with the proper proportion of air instead of being filled with moisture allows for the expansion of the soil-water and the release of the entrapped roots from the resulting pressure which the freezing would exert upon them.

There is also a lot of poor seed on the market, but that is really no excuse for a clover or alfalfa failure, since good seed

(Continued on page 13)

A TWO-TON-PER-ACRE FIRST CUTTING OF ALFALFA IN SHOCK.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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PRECAUTION NECESSARY IN PASTURING STALKS.

An Indiana subscriber in a recent communication points out some of the precautions that should be taken both before and after turning livestock into stalk fields. Among other things he says:

As soon as husking is done farmers will turn their stock into the stalk fields and many ears of corn that escape the hands of the huskers will be found by the cattle and thus converted into beef or milk. This practice is always attended by more or less risk, however, either from overfeeding on corn, where the huskers have been careless and left a large number of small ears and nubbins, or from the so-called cornstalk disease, hence great care must be exercised for a few days in giving the cows the liberty of the fields.

There are seasons in which the loss of stock while running in the stalk fields is larger than others. Some stockmen are of the opinion that this loss is caused from smut on the corn and not from eating too much corn or stalks. It has been demonstrated, however, that smut is not very deleterious to the health of animals. We believe the greatest loss is due to the fact that oftentimes a sudden change is made from grass without any grain to dry feed that contains such large quantities of grain in the beginning. The grain is the first consumed by the animals, which will roam over the fields until the last ears of corn have been located and eaten. And if any losses occur at this time they are due entirely to the effects of overfeeding on such rich grain as corn.

The first precaution, of course, is to husk the corn clean instead of rushing along and leaving a big per cent of the ears behind as a large number of huskers do. Some ears will escape the hands of the most careful husker, but the quantity of corn thus left will not be so great as seriously to endanger the lives of the stock when turned into the stalks. As a further precaution, it is well to feed corn in small quantities while the cattle are still on grass and before they are turned into the fields of stalks. If this practice is followed for a couple of weeks, it will gradually accustom the animals to a ration of corn before they have the opportunity of filling themselves on the grain in the fields. Then, no matter whether the fields have been husked clean or not, keep on the safe side and give the animals the liberty of the stocks gradually. They should not remain in the fields more than fifteen to thirty minutes in the beginning. A hungry cow or steer will gather a number of ears of corn in that time which will be swallowed without much chewing. The time may be gradually increased from day to day, but care must be exercised to see that no animal in the herd suffers from the effects of eating too much corn. The regular grain ration may be discontinued for a time while the cows are running in the stalks, or until they have secured most of the corn that was left behind.

When the grain has been entirely exhausted, the stock will eat large quantities of the husks and other portions of the stalks which contain only a very small proportion of digestible material, especially when they have been long exposed to the weather. If the digestive organs are already crippled from eating too much corn, they are in no condition to handle properly a large mass of woody fiber, hence the so-called cornstalk disease is the natural result. Oftentimes no other roughage is given the animals while in the stalks, thus forcing them to subsist entirely upon the dry stalks and leaves. These contain so little digestible nutriment that the animals have to eat great quantities to keep themselves from starvation, and they overwork their stomachs to such an extent that disorders follow and death may claim some of them. The precaution to be observed in this connection is to give a regular morning feed of roughage before turning the stock into the stalks. The animals will then feel that they have something in their stomachs and so will not eat so greedily of the stalks. They should also have access to drinking water before going into the fields and again at noon. A good supply of salt and charcoal is also essential. These materials make a cheap aid to digestion and, in a measure, they will prevent the loss of life while the cattle are running in the stalks.

If the cornfields have not been seeded to wheat, the stalk fields should be pastured as early in the season as possible if the greatest benefit is to be derived from them. Where they are not utilized until late the stalks have been soaked by numerous rains and dried up by the sun and wind until there is very little nourishment left in them. Then, too, many of the blades and tops have been blown away by the wind and what remains is so dry and unpalatable that the stock will derive little benefit from it.

It frequently happens that certain individual animals in the herd are out of condition for one cause or another and we have found from experience that these are the animals that are usually injured when turned into stalk fields. Old cows will often go down the hill very fast when they have to be carried through the winter or even for a month or two on dry stalks. In such instances we think it is a loss purely and simply to compel animals that are out of condition or old animals to live on dry cornstalks. Loss of weight during the winter on any kind of a farm animal means an actual loss to the owner. Even in the case of dairy cows unless they are well wintered they cannot produce maximum returns the following spring and summer. In addition to the suggestions given by this subscriber we would like to add one, namely, that under certain conditions where it is the desire to keep animals in good flesh a little oil meal fed when they are running in stalk fields will contribute immensely to their thrift and will tend to eliminate the danger that frequently attends the eating of large quantities of dry cornstalks. A half pound or a pound of oilmeal daily for each animal will contribute much to healthfulness and to thrift.

WHEN THE FROST IS ON THE PUNKIN

WHEN the frost is on the punkin, and the fodder's in the shock,
And you hear the kyouck and gobble of the struttin' turkey-cock,
And the clackin' of the guineys and the cluckin' of the hens,
And the rooster's hallylooyer as he tiptoes on the fence;
O, it's then's the times a feller is a-feelin' at his best,
With the risin' sun to greet him from a night of peaceful rest,
As he leaves the house, bareheaded, and goes out to feed the stock,
When the frost is on the punkin, and the fodder's in the shock.

They's something kindo' harty-like about the atmusfere,
When the heat of summer's over, and the coolin' fall is here—
Of course we miss the flowers, and the blossoms on the trees,
And the mumble of the hummin' birds and buzzin' of the bees;
But the air's so appetizin'; and the landscape through the haze
Of a crisp and sunny morning of the airly autumn days
Is a picter' that no painter has the colorin' to mock—
When the frost is on the punkin, and the fodder's in the shock.

The husky, rusty russel of the tossels of the corn,
And the raspin' of the tangled leaves, as golden as the morn;
The stubble in the furries—kindo' lonesomelike, but still
A-preachin' sermuns to us of the barns they growed to fill;
The strawstack in the medder, and the reaper in the shed;
The hosses in theyr stalls below—the clover overhead!—
O, it sets my heart a-clickin' like the tickin' of a clock,
When the frost is on the punkin, and the fodder's in the shock.

Then your apples all is getherd, and the ones a feller keeps
Is poured around the cellar floor in red and yeller heaps;
And your cider-makin's over, and your wimmern-folks is through
With their mince and apple butter, and their souse and sausage too!
I don't know how to tell it—but ef sich a thing could be
As the angels wantin' boardin', and they'd call around on *me*—
I'd want to 'commodate 'em—all the whole-indurin' flock—
When the frost is on the punkin, and the fodder's in the shock.

—James Whitcomb Riley.

A MULTI-MILLIONAIRE OF THE FARM.

A writer in one of the large daily newspapers presents an interesting thought. He points out that practically every branch of human endeavor has produced multi-millionaires, with the single exception of farming, That there are farmers who have amassed a fortune out of the soil is not to be denied. The grain belt has its entry to make in the person of the late David Rankin, who started with nothing and died possessed of millions. But the country today cannot produce a single farm millionaire to rank alongside Carnegie in the steel industry, Rockefeller in the oil industry, Weyerhauser in the lumber industry, Spreckels in the sugar industry, and so on.

The point which the newspaper writer brings out is so interesting we print his views, at some length:

Immense fortunes have been made out of every great industry or business in America except one. Steel made Carnegie, Frick, Gates and scores of other men many times a millionaire. Oil made Rockefeller, Rogers, Flagler and that unmatchable coterie. Banking made Morgan, Drexel, Schiff and Stotesbury.

Street railways made Widener, Elkins, Ryan and Dolan. Tobacco made Duke, Brady, Garrett and many others. Railroads gave us Harriman, Gould, Vanderbilt, Huntington, Packer, Scott and an army of men who were immensely rich.

Anthracite coal has its company of barons, including Pardee, Markle, Coxe and Conyngham, while bituminous coal made such men as Stephen B. Elkins, Davis and Berwind. Powder gave Du Ponts to the world with all their millions.

Newspaper and magazine owners, merchants, lumbermen, brokers, builders and hotel proprietors all have furnished not one, but many very rich men.

But the greatest of all industries in America is farming, and who can name a man who has taken $10,000,000 from the soil? Many more people are engaged in agriculture than in any other industry, but where are the millionaires?

You can name a long list of chieftains—captains of industry—in every other trade or business, and yet the biggest of them all produces not one. Queer, isn't it?

But he is not content to speak of conditions only, he delves for a reason, a cause for the acknowledged effect. Here is what he finds:

For everything there is a reason, and there is a good one for this astonishing lack of millionaire farmers. Here it is: Farming is unorganized. It remains today as it was 100, even 300 years ago, an enterprise of individuals.

There is no combine of farmers and no trust. Every one is a small capitalist in himself. He joins with no one else, he retains his independence and he never loses his identity.

The farmer goes on today as his great-grandfather went before him—sowing everything except the seeds of fortune and reaping every crop except a million.

I have a strong conviction, but, of course, it can be nothing more tangible, that this condition will not last. I believe that some day we shall see Rockefellers growing corn and Carnegies in the wheat field.

A genius for consolidation will rise up and he will amalgamate two or three countries under his own control. It will require capital, but it also involved a billion and a half when United States Steel was born.

The extraordinary thing is that it has not been done before. We have big farms, of course. Dalrymple is known all over the land.

Col. James Young used to be called the Farmer King of Pennsylvania and his nine farms near Middletown are still show places.

But compare these great farmers with the leaders in all other forms of industry.

One cannot tell, but perhaps this very year some lad in one of the excellent agricultural colleges will have planted in him the thought of doing on the farm what others have done elsewhere—make a lasting name and a few millions at the same time.

It may be that the prediction will come true and that the next few decades will find a Rockefeller in the corn field, a Frick in the wheat field, a Morgan in the feed lot. It may be, and yet we doubt it. Farming does not loan itself easily to combinations in restraint of trade. Iron mines are comparatively limited in number, oil wells are not to be encountered the world over. Yet there is not a habitable country in the world (with the exception of the arctic regions) which does not possess tillable ground. A financial genius may buy up all the iron mines, combine all the steel mills, organize the oil industry into a coherent whole, but such work would be puny indeed, compared to the task of welding together the farming areas of the world, or even of one country. Aside from this, the very nature of farming is antagonistic to such combinations, upon which immense fortunes depend. Iron is iron the world around, oil is oil, and so on. But the land here produces that which the arable land elsewhere will not produce at all. And so conditions do not favor farming combinations as they do in the industrial world. It is a pretty picture the newspaper writer paints; we believe, however, it will never be looked upon in real life.

HOME MEATS ARE BEST.

Some of our readers are looking forward to hog-killing time, as indicated by the number of inquiries that are received relating to the curing of meat. One subscriber says that he has never had very good success in the curing of hams and asks for a little information along this line.

Good results in the curing of hams are often obtained, even though the same identical means are not used to accomplish them. A mixture composed of one-half bushel of fine salt, one-half pound of pulverized saltpeter, one pound of finely ground black pepper and four pounds of brown sugar will give excellent results if it is properly used. The hams should be thoroughly rubbed with this mixture, after which they should be placed in a box skin side down. It is a good plan to apply a double handful of the mixture to the fleshy part of each ham after it is placed in the box. A goodly coat of salt should also be used over the mixture so that adjoining pieces of meat will not touch. Every crevice between filled with salt and the meat should be allowed to remain in this state for at least a period of six weeks.

At the end of six weeks each ham should be dipped in a solution composed of one pound of borax dissolved in fifteen gallons of water. Follow this up by hanging it in a smoke house and smoke it daily for a period of two weeks over hickory wood and you will then have a product that cannot be excelled in the matter of quality.

About the first of April the hams should again be dipped in boiling water to cleanse them from all impurities after which they should be wrapped in paper, this in turn covered with cloth and the cloth covered with some cheap mineral paint. Hams handled in this way will keep indefinitely and those that are not needed for home consumption should bring the highest price if placed on the market.

SHREDDING CORN FODDER.

The introduction of the silo has solved the feeding problem for a great many of our readers. However, there are thousands and tens of thousands of acres of corn standing in shock in every state in the corn belt and to handle this fodder economically from the standpoint of labor is a matter of considerable significance. The plan of husking the corn from the shock, tying the fodder again and hauling it to the yards involves an immense amount of labor and even though one's time may not be so valuable in the winter is too valuable in most instances to squander that way. On the other hand feeding corn fodder without detaching the corn is a very hit-and-miss plan because it is almost impossible to know just how much corn one feeds.

The shredder in most cases solves the whole problem ideally. We are therefore making an appeal at this time to those of our readers who have had experience in shredding corn and will ask them to submit the results of their experience for the benefit of others. We will pay cash for such articles as are used. Those who contribute on this subject should go somewhat into detail as to methods of handling the corn, how the fodder is stored, whether in a sack or in a mow and where the various items of expense involved in the operation are clearly in mind we hope that these will be given in order that our readers may learn just how much outlay is involved in the operation of shredding.

Ask your neighbor to subscribe for The Homestead.

THE PUBLISHER'S VIEWS —ON— TOPICS of THE TIME

James M. Pierce

THE LESSON OF THE ELECTIONS.

LAST week's elections were mainly confined to the East and South, yet the results are of interest to the farmers of the grain belt as straws showing how the political winds are blowing. The defeat of the Tammany candidate for mayor of Greater New York and the results generally show conclusively that the people are voting for the man rather than the party label and that the purification of politics, which began so auspiciously in the grain belt a few years ago, is being continued in the larger centers.

The most corrupt political organization in the country today is undoubtedly Tammany Hall in New York City. It has throttled the free expression of individual opinion, and profited by this thralldom, for years and years. The Tammany candidate for mayor was snowed under at last week's election, while the governor whom the Tammany boss had thrown out of office, William Sulzer, was elected a member of the legislature by an overwhelming vote. Now what does this portend to the grain-belt farmer? You say he has no direct interest in eastern politics. But I say he has an interest, and a very great and grave one, in the uplifting of American politics, in the chance of every voter to express his will unhampered, in the opportunity of the majority to rule. The nation, as a whole, cannot wax great and rich, no matter how prosperous and progressive is the grain belt, so long as these cancerous sores of graft exist on the body politic as they have existed in Tammany Hall and the interest-controlled sections of the East. Just as a chain is no stronger than its weakest link, so is no nation any stronger than its poorest or meanest or most ignoble state. The vote of a congressman elected to Washington by the corrupt and purchased vote of the Bowery district of New York offsets the vote of the most honorable and determined reformer or patriot elected by the farmers of the grain belt. Therefore the grain-belt farmer has more than an indirect interest in any election which shows that the sections of the country heretofore corrupt are becoming purified. The farmer's vote for an honest, upright man becomes that much stronger, because it is not killed by the vote of some city hoodlum for a man whose candidacy is a disgrace to the entire nation.

With but practically few exceptions the election results of last week show that the progressive spirit is still dominant. I do not mean the progressive spirit, in a partisan way. Each of the political parties has its progressive and its conservative members. Men who conscientiously look forward to the millenium are to be found in all parties, regardless under what name they go. In almost every case last week the party was successful which nominated a candidate from its progressive faction. The impetus which these victories gave to the campaign to free all the parties from the domination of the selfish interests can hardly be overestimated.

I, for one, am sincerely glad that the elections are over, although here in the grain belt we had but little of the red fire and the din of the campaign. What the country wants is a winter of business activity, with as little politics (and as little new legislation, for that matter) as possible. With the elections out of the way and much of the work of congress already accomplished, nothing is more to be desired than a long pull and a strong pull all together for a winter of brisk commercial activity, followed by a spring and summer of unparalleled agricultural prosperity. Let's each one of us do our share to bring this to pass.

ON GETTING TOGETHER.

I DO NOT believe there was ever a time when the farmers were animated with such a "get together" spirit as nowadays. Call it co-operation or just common sense, it is a fact that men on the farm are joining hands today, as never before, for a triple purpose: reduction of expense, enlargement of profits and increase of comforts and pleasures.

This thought was impressed upon me by a letter received from a subscriber in southeastern Kansas, who tells me of the formation of ice clubs among the farmers of that section last summer. The plan was extremely simple: a dozen or fifteen farmers formed a club, one member of which went to town every day, in hot weather, for a load of ice to be distributed to all the other members. When there were a dozen members it meant that each farmer had to make a trip to town but once in two weeks, while every day he had a fresh supply of ice. I had no more than read this letter when another reached my desk from a subscriber in Nebraska who tells me of seven farmers in his county who own a dozen silos and who help one another in filling them, owning a cutting machine and the necessary amount of pipe in common and paying one of their number for looking after the machinery and repairing it between seasons. By this means they not only enjoy one another's companionship while filling each other's silos, but they get the work done better and at less cost, as each man becomes unusually proficient in whatever branch of the work is entrusted to him year after year.

But this new "get together" spirit is not confined to such purely farm work, by any means. What are the road-building days which Missouri, Arkansas and Oklahoma have already celebrated, in response to the calls of their governors, but a new manifestation of the old spirit which found expression in the pioneer days in barn raising bees, corn husking bees and so on, but which has been dead (or, at least, sleeping soundly) for a number of years past? On these road-building days the farmers of the countryside turn out and work shoulder to shoulder on the roads, while the women folks come out at noon carrying baskets full of fried chicken, home-made doughnuts and all manner of good things with which to regale the inner man. There was nothing like that when I came out to the grain belt, from Ohio, forty years ago, and cast my fortunes with a Missouri farm. We hear a lot of talk about "the good old days." Let me tell you that when everything I possessed in the way of this world's earthly goods was wiped out in one day by a visitation of grasshoppers, there was no "get together" campaign against the common enemy then such as was found in Kansas last summer, when the state experiment station supplied the formula and the superintendents, the various counties provided the poisoned bran free and the farmers went out together, thousands upon thousands of them, on a certain day and by nightfall had destroyed millions upon millions of the grasshopper pests. Back in the old days we fought our battles ourselves and if we coundn't win single handed we went down in defeat. Today we have the benefit of free information from experts (in bulletins and reports), of actual example in the field, and if the hard times or the hard luck become too widespread the whole community or the whole state joins hands and fights it together. Take my word for it, "the good old days" were not one-half so good as the days of the present.

This "get together" spirit is one of the most hopeful signs of the times. One of the chief objections to farming in the old days was its so-called isolation or loneliness. You don't hear much, if any, of that kind of talk nowadays, thanks to good roads (making communication between town and country quicker and more pleasant), telephones, interurbans, automobiles, motorcycles and the fraternal way in which the farmer is welcomed to the churches, the lodges and the clubs of the nearby town. Farming was considerable of a one-man struggle for existence when I was a boy on the farm; today it is becoming an exact science in which men are learning that better and surer results are to be obtained by joining hands in co-operative effort, dividing up the labor, increasing the profit and adding the zest of companionship to the day's work.

It is my opinion, after more than forty years' farming experience right here in the grain belt, and two tours of investigation which took me through most of the agricultural countries of Europe and several in South America, that never has farming been carried on on so high a plane, with such splendid results and such a bright prospect for the future, as right here and now in the grain belt. The American farmer is to be congratulated upon attaining a high general average of prosperity and efficiency, surpassing that to be found anywhere in the entire world.

OPEN THE SCHOOLHOUSES.

GOVERNOR CLARKE, of Iowa, is to be commended for his stand in favor of making the rural schools the social centers of the various communities. The governor is a product of the farm and country town himself. He has hungered for the opportunity to expand his mind through intercourse with congenial spirits. He realizes that the great need of the country today is opportunity for mental growth, a stimulus to original thought, an incentive to look beyond the horizon and make our view world wide.

In the course of a speech delivered a few evenings ago the governor came out thus strongly in favor of the movement to open the rural schoolhouses nights and make them real community centers:

> Both schools and churches over the land represent great investments of money and are closed to the public the greater part of the time.
>
> There should never be a time in the life of any man or woman when they should cease their education. Making the schoolhouse a community center will develop human interest and human sympathy.
>
> The home is the first essential to the foundation of good citizenship. The discussion of home problems by a gathering of neighbors and authorities will add materially to the quality of the citizenship of the future.
>
> The home is the hearthstone of the community. Good fathering and good mothering can be augmented by making the neighborhood gathering the inspiration of that hearthstone.
>
> No one can be sociable unless he has something to be sociable about. The schoolhouse should be the place for the discussion of topics of general public interest, health, sanitation, ventilation and the care of the homes, for instance.

It seems odd that there should be any objection at all to so sensible a plan. Yet opposition does exist, mainly on the part of the thoughtless or indifferent. But the movement which Governor Clarke thus ably champions is gaining headway rapidly. I noticed by the Kansas City newspapers recently that the board of education of that city had let a contract for wiring school buildings which have been in use for ten and twenty years and even longer, but for which no lighting arrangements had ever been made. The Kansas City school board sees the handwriting on the wall; it takes the initiative in ordering something done which the people themselves will order done if the authorities do not act quickly. So long as a schoolhouse stands idle fourteen or fifteen hours out of the twenty-four it is failing in its great mission of educating the people. Education does not cease when we graduate from the grade school, the high school or even the greatest university in the land. It continues to the very hour of our death. Why, then, should not the schoolhouse continue its work until we are too old to totter to it any longer?

One of the greatest educational factors of a half century ago was the lyceum, where Charles Sumner, Henry Ward Beecher, Wendell Phillips and the other great thinkers of the day expounded the principles of liberty to a people hungering for such doctrines. One of the great educational factors of today is the Chautauqua. Call it "refined vaudeville" and make fun of the secretary of state, Mr. Bryan, for appearing on the same program with Swiss yodlers and bell ringers, if you will, the fact remains that the Chautauqua is doing more than any other agency today (with the possible exception of the press) to educate the rank and file of the people and crystallize public opinion. The Chautauqua is doing much that the schoolhouse should be doing. Why not, then, divide the work? Let clubs be formed, similar to the debating societies we had when I was a boy. Let these clubs be permitted to use the schoolhouses without cost, let them be urged to use them whenever they please. Let these clubs discuss current events in the light of history. Let them have their debates, their parties, their sociables, their musicales; every meeting will result in the enlargement of someone's thought, the broadening of someone's mind, to the end that a few years of the open schoolhouse will find the mental and the material standards of our rural life still higher than ever before. Governor Clarke has given a great cause a good impetus.

James M. Pierce

MIXED LEGUME SEEDING.

Those who are most enthusiastic in their endorsement of alfalfa and sweet clover do not always make it clear whether it is their recommendation that either one or both of these legumes be made to supplant the common red clover or not. However, we assume that in most cases their enthusiasm is based on the urgent need there is to increase the acreage devoted to legume growing and in this respect their teaching must be endorsed by all progressive men.

At a time when there is a very keen interest being taken in alfalfa and sweet clover as indicated by the demand for seed we would like to call attention to at least one advantage that might come from the plan of mixing the seed of at least two legumes before sowing. We know of a number of instances where men have used from one-half a pound to one pound of alfalfa seed per acre in conjunction with four quarts of red clover seed and four quarts of timothy seed and have been exceedingly well pleased with the outcome. The continuation of this plan means that the soil becomes infected with the alfalfa organisms so that when the time comes for sowing a field of alfalfa it makes a healthy growth and a strong stand right from the start.

The same also may be said of sweet clover. Although up to the present time possibly not more than one farmer in a thousand in the corn belt has made any attempt to grow this crop yet its economic value has been proven and we predict that the acreage of sweet clover will be greatly increased in the future. As is the case with alfalfa ground inoculation is necessary and the use of a small amount of seed in the regular meadow will in due

time inoculate the ground because unquestionably the germs are carried with the seed.

It must be remembered that either of these crops in the meadows will do no damage whatever, but on the other hand they will only supplement the clover and timothy. If, in the case of sweet clover, seed is produced this will do no harm, but only tend to thicken the meadow. In any event the soil will produce a larger crop of mixed plants at all times than will result from seeding any one of the crops alone.

HOG SHORTAGE NEXT YEAR.

Available statistics indicate that there will be a hog shortage next year. The ravages of cholera have greatly thinned out the 1913 supply, causing, in some instances, direct loss from the disease, but in most cases resulting in the premature shipment of light hogs. Central markets have been absorbing this light stuff for many months, taking it, in most cases, at a very low price, from 5 to 7 cents a pound, the same going over the retail counter later on to the consumer at about 20 cents a pound.

In view of the inevitable shortage we would like to call our readers' attention to the advantage there might be in keeping over an extra sow or two. Of course if even one sow extra could be kept on every farm in the corn belt this would add millions of hogs next year. One may be reasonably sure that a good gilt or brood sow safe in pig will sell for more than market price before spring so that in case there is not pen room for a larger number of brood sows than was planned on it will be absolutely safe to start out with a larger number, and if you have no use for her it may be depended upon that a neighbor will be glad to pay you an extra $5 or $10 for even a grade brood sow before farrowing time next spring.

In this conne tion we would like to call attention to a mistake that is altogether too common in the corn belt, namely, that of allowing the gilts that are intended for breeding purposes to run with the fattening hogs right up until breeding time. While we believe in having the breeding stuff in good flesh, yet, as a rule, when this plan is carried out they get too much corn and not enough supplementary food. Ordinarily it is a simple matter to cut off a piece of the pasture with woven wire fence and keep the breeding stuff by themselves so that they may be fed a little extra oilmeal or tankage, or, if nothing else is available, be fed liberally on either soaked barley or ground or soaked oats. Where this plan is followed the gilts and sows will be in much better shape to bring through strong litters than will be the case if they are stuffed with corn right up to the beginning of the new year.

EXPERIMENT STATIONS BEHIND THE TIMES.

On the whole, the experiment stations of the corn belt are doing a creditable work. They are making a dollar go just about to the limit and if in certain lines of effort they are behind the times it is largely because funds have not been forthcoming to carry on the work.

We have in mind at this time the great need that now exists for information in regard to the practical effect of stirring different types of soils deeply. Manufacturers are engaged in making deep-tillage implements and they have used them in localities where men by the score have given them the strongest kind of endorsement. They are able to bring to bear convincing testimony to prove that these implements, in reality double, or even triple, the area of a given farm by loosening up the soil in such a way as to give the roots of plants twice as much or three times as much area as formerly on which to feed. Where can we turn to find anything like convincing experiment-station evidence as to the effect of plowing land, say four, eight, twelve, sixteen and twenty inches deep? If there have been any experiments conducted at any station that actually settle this point on a given type of soil we are unable to find the results in bulletin form.

On the other hand, manufacturers of explosives are finding a very wide market for their product in certain localities where stiff subsoils are broken up by the use of dynamite. Men who have tried out this plan in a practical way endorse it over their own signatures and plenty of instances have been found where blasting the subsoil increased the crops at least 50 and in some instances 100 per cent. If even a proportion of the benefit that is said to result from this plan of breaking up subsoils is produced then the discovery is of great economic importance, but so far as we know the literature that comes from our experiment stations contains no data that we can find on this method of pulverizing the lower soil. One manufacturer calls attention to the fact that the profits to the company from such sales as could be made in 100 years could not possibly equal the benefits that would be derived by farmers in a single year if the subsoil were used by plants as freely as the surface soil. It is true that the manufacturer in both instances is interested from a business standpoint, but be it assured that anything like a large industry cannot be built up in the manufacture of products of this character unless it answers a very real and a very important need in agricultural practices.

We would like to see the stations get busy and do a little thorough work along these lines.

A HUMORIST ON ROADS.

George Fitch is a grain-belt humorist (likewise a member of the Illinois state legislature, notwithstanding the incongruity of the combination) who has an unusually happy facility for putting good things in few words. One of his recent articles deals with good roads and Fitch gives some definitions which are unusually felicitous. Thus, for instance, he says that "a good road is a road which has only two dimensions, length and breadth; a bad road has three, length, breadth and depth." There is not a farmer driving into town, in the early spring following a thaw, when the road seems bottomless, who will not appreciate the truth of what Mr. Fitch says.

But the grain-belt humorist has something even better than this in his recent article. We take the liberty of making a few scattering quotations:

A good road is merely a roof over a bad road. When an enterprising state has decided to pull itself out of the mud it roofs over mud roads with tar and gravel or macadam, and the farmers come to town in wet weather just as carelessly as if they were Noah and didn't care how much it rained.

Good roads are useful because they enable the farmer to market his hogs when they are ripe instead of when the roads are navigable by a wagon which isn't fitted with bilge keels and propellers. But they are also useful because they enable the tired man to climb into a nervous automobile and commune with nature far, far away from cabarets and pictures of September morn.

Some farmers speak of good roads with scorn for this reason and insist that they do not want the city ambling past their farms at the rate of sixty miles an hour. This is short sighted. After the city man has worn long, hot holes in the country atmosphere for a few years he knows enough about it to buy a farm and settle down when he has worn out. And this enables the farmer to sell the said farm and come to the city.

This world is full of give and take, and the farmer who does not give the city man a chance to breathe country air flavored with real estate will never have a chance to take $300 an acre from him for a nicely-equipped farm with all modern improvements, including a 1913 almanac.

There is a lot of good hard sense wrapped up in the facetious philosophy of Mr. Fitch and we commend the entire article to our readers' attention. Oftentimes interest can be awakened in a subject by light, breezy raillery, where a plain, matter of fact presentation of solid facts fails to make even an impression. If Mr. Fitch can rouse the public to the need of roads, by his splendid nonsense, he will be deserving of a public memorial.

PREVENTABLE FARM WASTES.

The United States Department of Agriculture has recently called attention to ways and means of increasing the output of meat from the average farm. First in importance is the prevention of waste. It is claimed, for example, that the improper handling of eggs alone causes an annual loss in the United States of $45,000,000. One-third of this loss is due to blood rings and these in turn are really dead embryos and an embryo can only develop in a fertile egg. Hens that do not run with male birds do not lay fertile eggs, but they lay just as many eggs as if the males were with them. The separation of the males from the females after hatching season is over would eliminate a very large percentage of the waste from blood rings.

Another factor to which special attention is called by the department is the loss of young animals. It is estimated that 30 per cent of all pigs farrowed alive die shortly after birth from various causes. The improper feeding of brood sows and the providing of insufficient shelter at farrowing time are chief factors that contribute to this loss. If this loss could be prevented and the right kind of management would result in this, the annual meat supply would be very greatly augmented.

Then there is the question of animal diseases including hog cholera, Texas fever, tuberculosis and infectious abortion. From these various causes the annual losses in the United States are estimated to go up into the hundreds of millions of dollars. In addition to the direct losses there is the indirect effect of diminished vitality or animals that do not succumb, but are more or less affected with these diseases. The prevention of these diseases is after all squarely up to the individual owner and to him we must look for the introduction of improved means of sanitation and the application of modern methods in dealing with diseases.

The scientific ventilation of stables alone coupled with the sensible use of tuberculin will in due time eliminate tuberculosis from the herds of the United States and the same means that are used to combat this disease will in a large measure contribute to the better health and to the greater vigor of bovines.

COMBINATION OF FOOD FOR COLTS.

An interesting experiment is being conducted at the Kansas station in which twenty colts are being used to test out different feeding methods. It is the intention to carry these colts until they are mature before a final report can be made.

These twenty colts are divided into two lots, one lot being fed oats in conjunction with alfalfa, corn fodder and pasture while the other lot receives in place of oats a ration consisting of 70 per cent corn, 25 per cent bran and 5 per cent oilmeal. This mixture is of exactly the same feeding value as oats from the standpoint of the chemist. The colts, however, have a different report to make and those that are receiving the mixed grain are making better gains and they are in better condition today than the colts that have received the oats. Furthermore, it is costing about 20 per cent less to feed the mixed grain ration than it does to supply the necessary amount of grain in the form of oats.

The experiment is in charge of Prof. C. W. McCampbell and he points out that a farmer can better afford to use corn at 85 cents a bushel, bran at $30 a ton and oilmeal at $40 a ton than to feed oats at 50 cents a bushel.

We believe that the outcome of this experiment will not surprise any man who has had anything like an extensive experience in feeding horses. While it is generally believed that oats are the best single grain that can be used for this purpose yet the food is always regarded as an expensive one and for that reason there is generally a little tendency to feed a ration composed too strongly of corn. When you compound a mixture composed of about three parts of corn to one of bran and then add to this about 5 per cent of oilmeal you then have a product that is exceedingly palatable and one that under ordinary farm conditions is not expensive. However, the experiment referred to is an interesting one and the final outcome ought to be conclusive.

THE FOLLY OF CROSS BREEDING.

This subject is called to our attention at this time by a Kansas subscriber who can see no good in the practice save in the first cross. Among other things he says:

It is yet possible to find many who believe in cross breeding. These converts to mixing breeds are usually very pronounced in their belief and they practice what they preach, even to mixing breeds of poultry as well as of livestock.

As a first generation proposition, cross breeding is excusable. Frequently, it does mean more prolific production, and the infusion of new and different blood may bring to this one generation certain good features that could not be obtained by breeding true to breed. When cross breeding is continued, however, we begin to see the folly of the theory. It makes no difference whether the stock is horses, cattle or hogs, the generation that comes from the cross does not produce equal to either one of the pure breeds. One authority likens cross breeding to taking a drink of whisky on a cold day, in that the effect is strengthening for a short time, but after that brief time the drinker is physically weaker than he was before. While the production of the cross breeding may seem to be strengthened, the second generation is not so good in quality as were either of the breeds used before the cross.

We have seen cross breeding tried in every way and with all kinds of stock. We have also seen it tried with grains, particularly with corn. In every instance no permanent good comes of it. On the contrary, we are only convinced in stronger terms than ever that the only way to permanent improvement is to keep breeds pure, and to maintain a rigid selection for quality of all stock used for breeding purposes. If any of your readers believe that cross breeding really pays, as a proposition to be carried on year after year, we should be very glad to hear from them and to have their reasons for such belief. A general discussion of this subject will interest a large number of your readers I am sure.

It must be remembered that even the first cross, if it works any improvement at all, must be made between animals of almost pure breeding. For example, good results cannot be expected from crossing grade hogs of one breed with grade hogs of another, because, according to the experience of all successful breeders, it is better to continue in the one direction in breeding operations. If Poland China blood predominates in a herd of hogs regardless of what other mixture there might be in the blood lines, then a Poland male should be used year after year. If for any reason the type is not satisfactory to the owner this may be more nearly corrected by using a male of the same breed but of the type that is desired than by crossing. In a measure, it is like threshing over old straw to preach this kind of doctrine, but it is known absolutely as a scientific fact that improvement lies in this direction and that the road to success can be covered much more quickly by such a plan than by indiscriminate crossing.

HOW SWEET CLOVER IMPROVES LAND.

Here is an interesting experience with the growing of sweet clover. It comes from a Kentucky subscriber, Mr. E. E. Barton:

In common with the experience of many other farmers, my first acquaintance with sweet clover was by fighting it as a weed; having employed hands to cut it out while in full bloom in efforts to eradicate it from my land. Soon after, I began to hear favorable accounts of the plant, especially as a fertilizer, and having much washed and thin lands that would not grow crops or grasses successfully, I ventured buying some seed and sowing where I thought it could not make matters worse, and might do some good. It did all that its friends claimed for it, and my lands that were in sweet clover two to four years began yielding again good crops of corn and tobacco. Land that will raise good tobacco must be good strong soil, and knowing the condition of these fields before sowing to sweet clover, I decided that there was nothing else that I knew of that would restore fertility as quickly as sweet clover. I planned my course from that, and sowed all the sweet clover I could, and bought up some cheap land that was idle, and sowed it to sweet clover.

My expectations were more than met, as I found it made excellent pasturage, and would graze more cattle, sheep or horses than our blue grass, and in the middle of the summer when the blue grass was dry and brown, the sweet clover was green and thriving. It stands dry weather better than any grass or clover that I have had any experience with. I never had to sell my cattle on account of shortage of pasture when I got plenty of sweet clover.

Other farmers around me began using it for hay, and I followed suit. All kinds of stock eat it as hay even better than as green forage. Some stock are a little slow to begin on it as pasturage until they become used to it, but let one steer or cow in the field start on it and all of them will be eating it as freely in two days. The hay does not seem to have the same amount of bitterness as the green forage, and that has the bitterness only about the time it begins to bud before blooming. When it is young and tender, it tastes as sweet as alfalfa or red clover.

Most all of us here sow sweet clover during the winter and early spring, by broadcasting on top of the ground. We sow it this way on small grain, and also in our pastures. The freezes and thaws work the seed into the ground, and we get the best germination by this method. It seems that the seed is slower

to germinate than red clover, and requires more time in the ground. The shell over the germ is very hard and requires time to soften so the little sprout can burst out. I have sown in the spring and summer also, and get good results if the moisture is sufficient. But winter and early spring sowing gives the best results, and is more convenient and less cost. For good germination, the seed bed ought to be firm, and when sown in cultivated fields, just enough of the surface should be stirred to cover the seed about a half inch. If the ground is specially prepared, it ought to have a rain on it to settle the soil, then sowed and covered with some implement that will stir the soil shallow. The seed should be covered when sown in late spring, summer and fall. It can be sown with oats in the spring by broadcasting after the oats are covered and while the soil is loose and crumbly. This way the seed will work into the ground, and the first shower that comes will cover it good. We have also sown it with corn when we laid it by, and it comes on and makes a growth of about fourteen inches in the fall, and then comes very early in the following spring.

This crop after all has more friends than we suspected and it is not surprising when we find so many favorable comments on the crop to see farmers in general showing a keener interest in the subject. Someone said to us a few days ago that the history of sweet clover growing would be something like the development of the Belgian hare industry, but we cannot endorse this view. The day will never come when the farmers of the corn belt will overdo the matter of growing legumes and rivalry between those who are championing the different species of legumes will, on the whole, contribute immensely to soil improvement.

Agricultural Co-operation for Providing Farm Labor.

THERE are few new things under the sun, but to the best of my knowledge the first American Co-operative Association organized expressly for the purpose of supplying farm labor has not yet been born; and in Europe perhaps the least developed and most rare form of co-operation is that concerned with supply or employment of human labor in agriculture.

Notwithstanding this, the distressing truth is that the problem of the supply of farm hands is almost universal. In common with the United States nearly every country in Europe is facing the question of rural depopulation and the insufficiency of field workers and house servants for all or part of the year. In many districts, both here and abroad, farmers are at their wits' end to procure hired help, and thousands have given up in despair and left the countryside or allowed arable fields to revert to brush and pasture and incipient forestation. Various attempts have been made to solve the hired-man problem, few of which have met with any degree of success; some of our most keen and practical agricultural experts have declared the situation insoluble.

The problem of farm labor has many phases and is complicated by a myriad of conditions, local, temporal, and inherent. The case of the berry grower who wants a hundred hands for light labor during the month of June is very different from that of the potato grower who needs a dozen strong men for three weeks in the fall, or the isolated grain farmer who demands one man for nine months and three additional hands in haying time and harvest. The number wanted, the season and period of employment, the character and race of the laborers sought, the sort of work, the locality of employment, the wages, hours, and conditions of service—these and other factors serve to complicate the situation and make consistent or uniform methods of meeting it impossible.

Though the United States has made no purposeful, organized co-operative endeavors in this direction, several sporadic, informal schemes for procuring labor without conscious, unified, or concerted action have been attempted with various degrees of success. Nevertheless any suggestions with reference to possible co-operative undertakings must be in the main based on theory.

The subject as given lends itself to discussion under at least four phases or propositions:

(1) The formation of co-operative societies, such as one finds in Germany or France, designed to procure groups of laborers from foreign countries or from urban centers to distribute under certain fixed contractual conditions among the individual members of the association. In other words, a co-operative farm-employment bureau.

(2) The co-operative employment and use of crews of laborers for special tasks on the farms of the members as, for example, in weeding vegetables, gathering fruit, etc.

(3) The co-operative or corporate association of the laborers themselves into companies for the purpose of performing certain services, such as putting up hay, gathering apples, weeding and hoeing sugar beets, stripping tobacco, and the like. Such associations of laborers are not unknown in Europe and are occasionally organized in the United States.

(4) Collective farming, either by small farmers or by gangs of laborers who obtain land on which to conduct agricultural enterprises in common. This may be called "co-operative production." Of the many collective farms in Italy, Hungary, Servia and other countries, by far the larger number are not communistic. The land is rented in a body by an association of peasants who then divide it into tracts which the members cultivate independently of each other. Some few collective farms, however, are really co-operative undertakings where all the co-operators work together in production.

With regard to the first proposition it would seem that some form of co-operative employment bureau might be of decided advantage, especially in procuring immigrant laborers for a given community or an agricultural sub-industry. One of the outstanding objections to agricultural employment on the part of immigrants is the fact that they must be separated from their own kind. If fifty Belgians, Germans or Poles could be engaged in one community instead of a solitary one or two, very much less difficulty would be encountered both in securing and in retaining them.

The business of such a society would be to ascertain the number and kind of laborers wanted within a limited area by its members, to fix the maximum and minimum wages, perquisites, and allowances, and to secure from each member a signed contract binding him to employ for a specified period the laborers procured for him by the society, whose specifications should be set forth in the agreement.

Furthermore, the contract should contain definite stipulations as to wages, hours, holidays, food, housing, duties, privileges and conditions of labor to which both employer and laborer must agree under penalty of such forfeit as the co-operative society may determine. The society should be responsible for the enforcement of the contractual obligations, under an agreement similar to that formulated by the beet-sugar corporations who provide the growers with laborers to cultivate their beets, the growers paying for the service at specified rates under a tripartite contract.

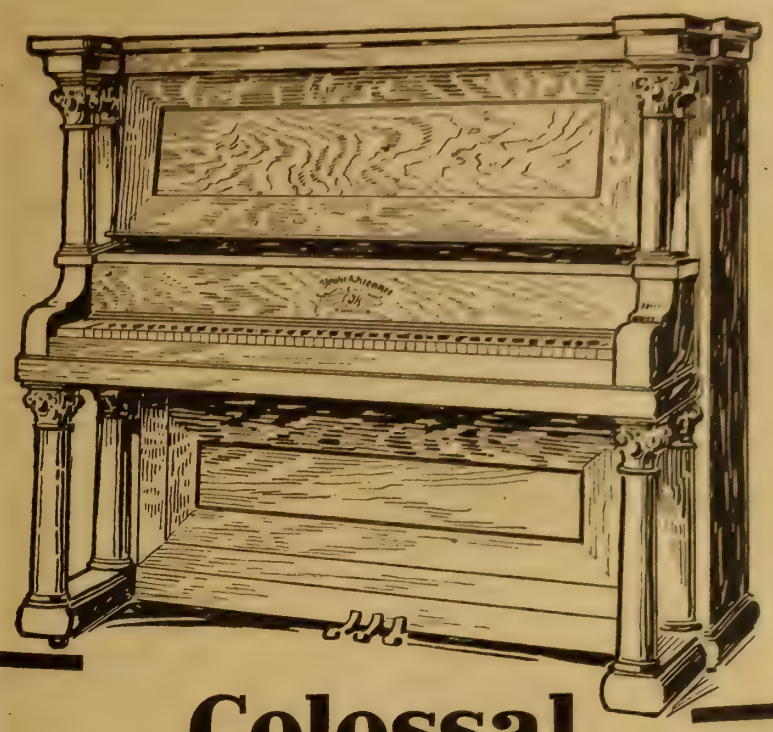
Several years ago in a certain tobacco section of the United States two large growers undertook to provide themselves and their neighbors with Polish and Lithuanian tobacco hands, somewhat as outlined above, at so much per laborer. They went to New York, employed an interpreter and secured their workers as they disembarked. The method worked successfully for several years until the immigrants, having learned the route, came directly to the locality in sufficient numbers without solicitation by the agents. That this would be the history and outcome of co-operative bureaus for similar purposes there is little doubt.

Moreover, such a society ought to co-operate with the state bureaus of employment and the United States Bureau of Immigration; it should be a local clearing house for agricultural labor and might set the standard of wages and conditions of farm labor in the community.

The details of a co-operative association of this kind would need to be worked out with some care to insure efficiency, economy, and mutual protection. But there is no reason to doubt the possibility and the feasibility of an organization to this end. In France two syndicates, as they are called, have been formed for the purpose of procuring Polish laborers directly from their native villages. It must be understood that the bulk of the Polish immigrant laborers are imported by private labor agencies, who have been exploiting the laborers and breaking faith with the farmers for private profit. The abuses which have arisen have been many, and it is chiefly to correct these evils that the co-operatives have been formed.

I believe that a local co-operative society, as outlined above, providing employment for fifty to 100 laborers throughout the year, might make known the opportunities for work on farms, enlarge the labor supply, provide more satisfactory laborers, relieve, to some extent, intermittent, seasonal congestion and scarcity of farm hands, and by acting as a clearing house for farm labor, lessen the number of idle days and lengthen the period of labor for the employes. Not the least of its achievements would be the standardizing of the wages and conditions of labor. Many of these results might be brought about by an agressive state employment office, but up to date the Kansas bureau seems to be the only one that has got in close touch with the farmers. Local co-operatives might as well serve the purpose of local agencies and operate as far as possible with the state office. This concentration and correlation of agencies will soon be

(Continued on page 15.)



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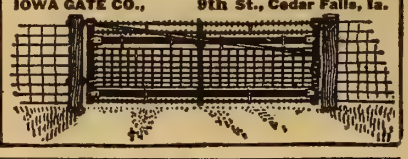

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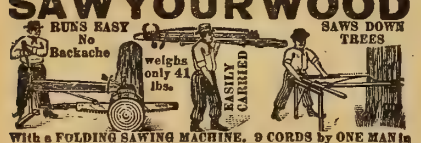

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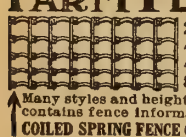

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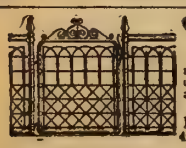

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

Cleanliness is the first lesson that must be learned by the dairyman, and it must be learned so well that it becomes a fixed habit to bring success. There is no good reason why cleanliness on the farm should begin and end with dairying. If the same idea was carried to hog raising it is quite possible that we would hear less about hog cholera.

When it is cold and wet outside a little extra care should be taken to see that the calf pens are kept clean and dry.

I have discovered one drawback about the manure spreader and that is in case of a breakdown it means no more manure hauling until the break is repaired. Spreading manure with a fork after using a spreader is about like binding again by hand if the self binder should happen to be out of repair.

In buying new machinery it is well to have the idea of repairs and extra parts in mind because there is no machine made that will not break down some time and when it does the repairs are always wanted in a hurry.

Some take it that a heavy fall of snow early in the season is a sure indicator of a long stretch of fine weather to follow. This may be the case, but where there is work to do, it is well to make use of the first part of the stretch in hustling. The weather man changes his mind without notice sometimes.

The cheap alcohol that was to take the place of kerosene and gasoline failed to get beyond the talking stage. I have heard of talking whisky and of fighting whisky and was in hopes that this "working" alcohol would prove to be of great value in spite of the bad reputation of its relatives.

These long evenings are fine for reading and thinking, also for visiting, if the weather is right. Perhaps it is the visits to our neighbors that we fail to make that makes the farm seem so lonesome.

The reports of record-breaking corn husking make rather interesting reading, but it is the fellows that husk two good loads every day until the last ear is in the box that deserves the most credit. Record breaking usually means one hard day's work and a week or more of bragging.

Mail carriers are very accomodating fellows, but it is unreasonable to expect them to pick pennies out of the mail boxes after cold weather comes.

Why is it that every man thinks his scales are accurate and that his dog does none of the sheep killing?

"Don't tell me that a silo without a roof keeps as good as one with a roof," says a neighbor who has two silos, one with a roof and the other without. Last week he finished putting a roof on the one that was roofless.

The public now has a different feeling towards threshing rigs traveling the roads. Once upon a time, when a threshing rig broke down a culvert, the owner of the rig was blamed for it; now the people believe culverts should be made strong enough to hold up such traffic.

It is a good time to have a clean-up of all tools that may be scattered around the premises. Of course it is hoped there is a place for everything and everything in its own place, but a snow falling upon the average farm usually covers more or less that should be covered by a roof instead.

A window full of blooming plants lends a cheer to a room through the winter season, but I must say a good deal of fuel is required to keep them from chilling. They tell me coal is going to be higher and higher as the cold weather comes, and realizing that many folks must have it regardless of price, no doubt the mine owners will see that the price does not grow less.

Grain is too valuable this year to be hauled in a wagon box with a leaky bottom. The price of a very few bushels would buy an entirely new box.

I am wondering if the large farmer, with a great deal of heavy hauling, could not make profitable use of the two to three ton truck. Heavy hauling on the roads is harder on the work teams than any other work they do.

The litter of pigs coming into the world at this season of the year requires good shelter for the winter and good care and feed. I have had a few November and December litters to care for in years past, and my honest belief is that it does not pay to have them come at this season of the year.

AN "INTERNATIONAL" INVESTMENT.

Contrary to the generally accepted belief the exhibitions of livestock in the United States are the greatest in the world. Not only are the displays of animal excellence themselves superior to all others, but the equipment for the staging of the shows and the accommodation of the visiting public is far better and more comprehensive than in any other country. Vast improvements have been made the past year in the setting of the International Livestock Exposition, which will this year be held from November 29th to December 6th. Concentrated, though safe and sanitary stabling and display of the animals, commodious lecture halls, a magnificent exhibition arena, together with all the necessary comforts for visitors—all, as it might be said, beneath one roof—form a combination not hitherto contemplated in connection with any livestock show.

In no other country is the show yard so closely associated with the national educational system, in none is the whole scheme and plan of exhibition arranged so that each season's prize winners may be brought before a court of last resort for final alignment, as at the "International," which will this year be held from November 29th to December 6th. Here alone of all the great world's shows may the best of all useful breeds of farm animals be seen in their foremost estate in one grand display.

In the United States we have the best, and the best of the best may be seen each year at the "International." Many foreign countries have great individual exhibitions, but by common consent of the world's highest authorities, the "International" is an easy leader. At this show may be seen the pick of the foremost foreign breeds massed together well-nigh beneath a single roof.

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To keep up with the trend of livestock breeding, the farmer and stockman must needs attend the "International." He must study the work of the judges, and if he cares to, and goes the right way about it, he may learn from the lips of these judges their reasons which governed their awards.

It is a show by the people, for the people, of the people. Its guiding principle is the greatest good to the greatest number. It offers a matchless opportunity to study, to learn, to meet and know the master minds in livestock circles. Any farmer who fails to attend the "International" deliberately deprives himself of an asset—a valuable asset which in after years would have bulked large in his store of knowledge and beyond peradventure in his bank account also.

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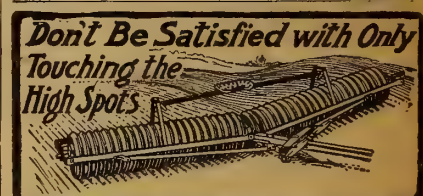

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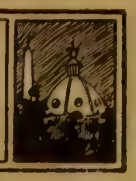
CURRENT EVENTS



LAST week's election showed democratic victories extremely gratifying to President Wilson, Secretary Bryan and others at the head of the national administration. In New Jersey, President Wilson's home state, the democratic candidate for governor, James J. Fielder, was elected over the republican candidate by 20,000 plurality. This was particularly pleasing to President Wilson, as he had spoken for Governor Fielder and written in his behalf. For the president to win out so handsomely in his home state, where the opposition in his own party is strong, is a sign that he has not lost standing since his remarkable victory at the polls a year ago. In Massachusetts the present lieutenant governor, David I. Walsh, a democrat, was elected governor by the largest plurality ever given to a democratic candidate in that state, more than 50,000. Second on the list was the progressive candidate, Charles S. Bird, a remarkably strong and worthy man, while the republican candidate, Augustus P. Gardner, a son-in-law of the standpat senator, Henry Cabot Lodge, trailed along in third place, the first time the republican party has even been relegated to that position in the Bay state. In Maryland the democrats were equally successful, the returns showing that Blair Lee, democrat, will be elected to the United States senate, to succeed the late Isidor Raynor, by fully 35,000 plurality. Inasmuch as Secretary Bryan has campaigned in Maryland for Senator Lee and strong opposition had arisen to him, because of the fact that Lee is opposed to prohibition in the liquor traffic, the result was pleasing to the national administration, showing that the Bryan prestige is not on the wane in the party. Virginia likewise went democratic, as was to be expected, as there was little or no opposition. Honors were divided between the parties in the municipal elections held over the country, the main interest centering in the state elections in the eastern states, where the democrats won handily.

MEXICAN affairs are once more critical. During the past week, President Wilson sent a formal note to General Huerta declaring that unless he (Huerta) immediately resigned the presidency and abdicated the office without leaving any of the members of his official family in charge, he (Wilson) would ask congress to authorize him to deal with the situation as the emergency demands, with force if necessary. Up to the first of the present week no formal action had been taken by Huerta in reply, although the United States war department has rushed several additional regiments of troops to the Texas frontier. Immediately upon receiving the notice from President Wilson, General Huerta called a meeting of the foreign diplomats in Mexico City, with what result is not yet announced. The Huerta government is practically bankrupt, a fact which makes it impossible for Huerta to assume the independent air he would like to assume. If the United States refuses to recognize him it will be practically impossible for his government to borrow funds abroad with which to keep the wheels running. The first result of President Wilson's firm attitude will probably be to allow the Mexican rebels, or constitutionalists, as they call themselves, to receive arms, ammunition and even funds from the United States, after which they will be in a much better position to overthrow the Huerta regime. The next few weeks promise to be busy and important ones in the relations between the United States and Mexico.

TAMMANY HALL, the corrupt democratic organization in New York City, was ingloriously defeated at last week's election, its candidate for mayor being beaten by the fusion candidate, John Purroy Mitchel, by almost 125,000 votes. The New York campaign was even more bitter and personal than usual. When the campaign started there were three candidates, but Mayor Gaynor died a few weeks ago, leaving the contest to be fought out by Mr. Mitchel and the Tammany candidate, Judge McCall. The winner is a young man, barely over thirty-six, and was appointed collector of customs at New York recently by President Wilson. He is said to be a clean-cut, honorable man of whom much is expected in the way of a clean administration for America's greatest city. Not only did Tammany lose out on the mayoralty, but it lost practically all its candidates for the board of estimates, the organization which holds the city's purse strings. The Tammany boss, Charles F. Murphy, is now almost down and out, as he has no influence or representation with the democrats in authority at Washington, at Albany or even in his home city. President Wilson has fought Tammany, the present governor of the state refuses to take his orders from Tammany, and New York City has administered the organization a crushing blow. It begins to look as though the purification of politics in New York were going ahead without any stop or hindrance.

EARLY returns indicate that the movement to issue $50,000,000 worth of state bonds in Pennsylvania with which to build permanent roads was defeated at last week's election. Practically all the newspapers of the state supported the plan, which was to permit the state to issue bonds to anticipate a ten-year special road tax, while most of the political candidates were favorable to the project. The result would indicate, however, that the people are not yet ready to add to their already heavy taxation burden. Either that, or the Pennsylvanians were not assured that the road campaign had progressed to a stage where the work can be carried on, on so large a scale, economically and efficiently. Pennsylvania has been graft ridden for many years, so possibly the voters are still suspicious.

EDWARD MORRIS, head of the great Chicago packing company of Morris & Company, died during the past week at his home in Chicago, practically of overwork. He was only forty-seven years old, but had devoted himself so untiringly to building up the great business of which he was the head that his life was shortened many years. Mr. Morris was the largest individual stock holder in several of the strongest financial institutions of Chicago, the market value of his stock being almost $4,000,000. In the will of his father, the late Nelson Morris, the building of the vast Morris fortune was attributed largely to the activity of the eldest son, Edward, who began his business career when a mere boy and continued it without flagging until poor health caused him to drop out a few weeks ago. Mr. Morris was one of the ruling powers of the Chicago stock yards and well and favorably known to thousands of stockmen, who mourn his untimely demise.

WILLIAM SULZER, governor of New York until three weeks ago, is again in public office. No sooner had he been deposed from office, having been impeached by the New York legislature, than he announced his candidacy for the legislature on the progressive ticket, he having been a lifelong democrat. At last week's election he was returned to Albany by an overwhelming vote, the entire east side, where he lives and where he secured his political start, rallying to his support practically to a man. The governor had hoped that the progressives would hold the balance of power at Albany so that he could be elected speaker of the house, but the republicans control the legislature, so that his ambition in this respect will not be gratified. Governor Sulzer made his campaign for the legislature on the issue of anti-Tammany. He claims that he was not impeached because of any discrepancy in his campaign accounts, but because he refused any longer to take orders from the Tammany boss, Charles F. Murphy. The people evidently believed that Sulzer was the under dog and was not given a square deal in his recent trial before the legislature. He has posed all his life as a friend of the people and while he is now exposed as somewhat of a demagogue his public career is by no means ended. It is highly probable that he will be a better public servant henceforth, as he is ambitious to climb up the ladder again and has learned his lesson.

Merchants situated so they get some farmer trade and some from townspeople, tell us their farmer trade is the cream, since the sales made are almost invariably larger to the farmer and the payment in cash or produce, which is the same thing. The town man buys in small lots and usually pays at the end of the month.

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Prices. This lot consists of every known make of roofing—Galvanized, 2¼c per sq. ft.; Corrugated Steel, 1¼c per sq. ft.; Rubber Surfaced Ajax Roofing 62c per square, etc. We now own the Chicago House Wrecking Company and incorporated for $10,000,000; this tremendous purchase is the first result—nothing like it ever before attempted by anyone. Every dollar's worth of the roofing guaranteed brand new. Every quality. Write for free samples and remarkable prices.

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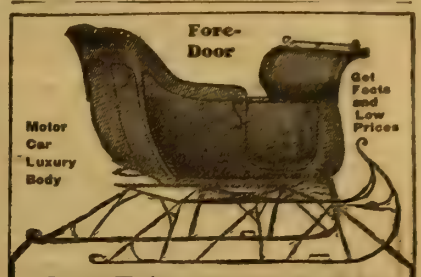

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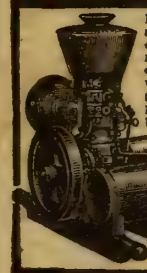

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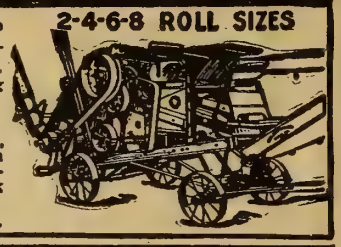

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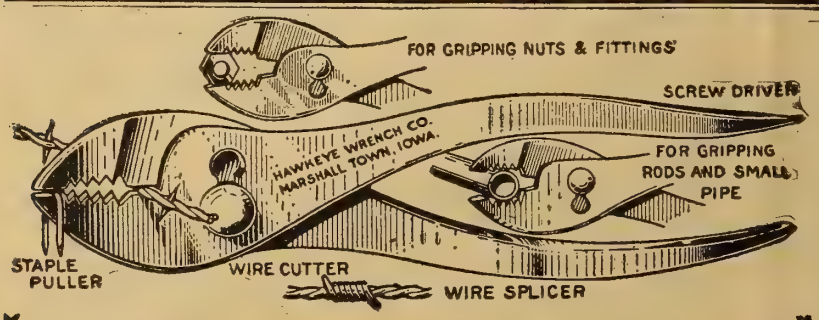

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SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

THE STATUTE OF FRAUDS.

The law commonly called "The Statute of Frauds" originated in England in 1677, and was designed to prevent the commission of frauds and perjuries by requiring certain kinds of contracts to be made in writing and signed by the parties. The principle was adopted generally in this country, and similar laws have been enacted in all the states, differing somewhat from each other in minor details, but substantially the same in effect.

Contracts About Real Estate.—Contracts for the sale of land, or any interest therein, must be in writing and signed by the parties, in order to bind them. This includes leases of land for more than one year, an oral lease for one year or less being valid. In Iowa it has been held that an oral lease for one year, to commence some time after the making of the bargain, is valid and binding, but this doctrine is denied in some other states, where the courts hold that an oral lease is only good for one year, beginning at the date of the contract. Any contract which is not to be performed in one year from the date of it must, as a general rule, be put in writing and signed by the parties, in order to bind them.

Contract to Pay Another's Debt.—Such contracts must be in writing. For instance, if I owe you money, and my brother, father or friend tells you that he will pay the debt, you cannot hold him to his promise, unless it be in writing. This doctrine applies only to debts already made, or injuries already done, for if I tell a merchant to sell you goods and charge them to me and I will pay, I am liable for their value, although my promise is merely oral. This is so because you were not indebted when I promised, the debt being the result of my promise. This distinction is important.

Promise of an Executor.—The promise of an executor or administrator to pay a debt of the estate which he is administering, out of his own funds, must be in writing and signed by him, or it cannot be enforced by law.

Contracts in Consideration of Marriage.—A man and a woman may mutually promise to intermarry without any writing whatever. The court cannot enforce such promises literally, but can award damages against the party who fails or refuses to comply with the contract, but if a person promises to pay something, or do something in order to induce another person to marry either the promisor or some other person, such promise must be in writing or it cannot be enforced. This rule applies to all promises or contracts made about advancements, settlements of property, etc., where the consideration therefor is marriage.

Sale of Personal Property.—In Iowa all contracts in relation to the sale of personal property when no part of the property is delivered, and no part of the purchase price is paid, must be in writing. In Missouri a sale of personal property for less than thirty dollars, need not be in writing, but if it involves that much or more, it must be in writing, also representations of assurances concerning the character, conduct, credit, trade, ability or dealings of another person must be in writing in order to bind the party making them.

In Wisconsin, Minnesota, North Dakota, South Dakota and Nebraska contracts for the sale of personal property for $50 or more must be in writing, unless part of the property is actually delivered, or part of the price paid. In Minnesota agreements extending the time of payment for manual labor in hauling, cutting, banking or driving logs, beyond the time of completing the labor, must be in writing. In Kansas the law provides that every sale or conveyance of personal property, not accompanied by an actual and continual change of possession, shall be void as against purchasers without notice, and existing or subsequent creditors, until it is shown that such sale was made in good faith and upon sufficient consideration.

Part performance of an unwritten contract that ought to have been written will make it good under certain circumstances. To have this effect such part performance must be of such a nature as to place the parties, or one of them, in such a situation as to render it difficult or impossible to restore them or him to the condition occupied before the contract was made. For instance, mere payment of the price of land is not sufficient, but part payment combined with taking improvements will, as a general rule, render an unwritten contract for the sale of real estate valid and binding. Many kinds of oral contracts are valid and binding, but they are often misunderstood by the parties, and have to be settled by an expensive lawsuit, in which it is frequently difficult to prove by witnesses exactly what were the actual terms of the contract. For these reasons we think that every important contract which requires some time for its performance should be put in writing and signed, whether the law requires it or not.

LAW QUESTIONS CONSIDERED

WIDTH OF ROADS—WORKING ROADS.

A Subscriber, Coatesville, Mo.—(1) How wide must a lawful public road be in Missouri? (2) When working the roads how near to my fence along the side of the road, can the road boss plow in the roadway?

Answer.—(1) Not less than thirty feet wide, to be determined by the county court. (2) The road boss has a right to plow right up to the established line of the roadway, if necessary for the repair or betterment of the road.

FISH AND GAME LAW.

A Subscriber, Plainfield, Iowa.—I was recently informed that the supreme court has decided that the law of Iowa forbidding persons who own land on both sides of a river to use seines in such river is unconstitutional, and, therefore, void. Has such a decision been rendered?

Answer.—We have carefully examined the Iowa reports up to No. 154, and find no such decision. We think such a decision has not been rendered.

PARTITION FENCE.

A Subscriber, Friend, Neb.—A and B own adjoining quarter sections of land in Nebraska. A has constructed a woven wire partition fence between the two places. Can he compel B to pay for half of said fence, and if so how shall he proceed to do so?

Answer.—He can compel B to pay for half the fence, if it is a lawful fence. He should select one fence viewer, and request B to select another to determine the value of the fence and make the necessary orders. If B fails to select a fence viewer for eight days after being so requested, A can select both, and they will meet and determine the matter. If they should be unable to agree, they will select the third one, and a decision of two of them will be binding.

DISPUTE BETWEEN LANDLORD AND TENANT.

A Subscriber, Farmington, Ill.—B leased A a farm for 1912, and gave two notes for the rent payable at a certain bank, one due September 1, 1912, and the other due March 1, 1913. The lease stated the land to be so many acres, more or less, and it actually was about five acres short. B was to sow grass seed to be furnished by A, and to make certain fences with wire to be furnished by A, but A failed to furnish either seed or wire, and B got the same at his own expense and also some tile that A directed him to place. B was ready to pay the first note when due, but A did not have the note with him, and on March 20, 1913, B was ready to pay the second note, but wanted A to settle with him for the seed, wire, and tile which B had furnished, and A refused to do so; also he did not have the notes with him, and B refused to pay unless the notes were surrendered, and put the money in the bank and it is still there. In February, 1913, B with A's consent moved to the country where the notes are payable. (1) Can

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A recover interest on the notes? (2) Can B hold A liable for the five acre shortage in the land? (3) What can B do to compel A to settle the matter?

Answer.—(1) A cannot recover interest on the notes after the time when the money was placed in the bank to pay them. (2) The lease having described the land as so many acres more or less B cannot hold A liable for the shortage. The words "more or less" cover such shortage. (3) The only way for B to compel A to settle for the seed, wire and tile is to sue him for the value of the same.

WIFE'S SEPARATE PROPERTY.

A Subscriber, Prophetstown, Ill.—A and B are husband and wife, and have children. B has an inheritance coming from her own people. (1) Can A lawfully claim it, or any part of it as his own? (2) What steps can B take to have said inheritance go to her children after her death?

Answer.—He cannot. B is entitled to said inheritance, as her own separate property. (2) B can make a will devising and bequeathing all her separate property to her children.

DETACHING FARMS FROM VILLAGE

A Nebraska Subscriber.—A few years ago a village in Nebraska, in order to incorporate, took within its limits several adjacent farms. The village has grown, and the owners of the farms wish to withdraw them from the village, and the town board is willing this should be done. What legal proceedings are necessary to do so?

Answer.—The owners of the farms must file a petition in the district court praying that their lands may be detached from the village, and cause a copy of this petition to be served on the village board within ten days. Then if the village board passes a resolution consenting that the court may make a decree detaching said lands, and files a certified copy of such resolutions in the district court with the petition, the court will render its decree accordingly, and a certified copy thereof can be filed and recorded in the village records.

NOTE AND MORTGAGE IN NORTH CAROLINA.

A Subscriber, Haverhill, Iowa.—I have a note for money secured by a mortgage on land in North Carolina. I have been making my home in Iowa for the last two years, and have the note and mortgage with me. (1) Should I pay taxes on the note and mortgage in Iowa or in North Carolina? (2) The note was made payable in twelve months from date, but interest has not been paid every year. Can I collect compound interest? (3) Should I have the note and mortgage renewed?

Answer.—(1) You should pay taxes in Iowa. (2) You cannot collect compound interest unless the note or mortgage expressly provides for such interest. (3) A mortgage is barred by the statute of limitations of North Carolina, in ten years after the debt is due. There is no need to renew the note and mortgage unless they are in danger of being outlawed.

STRAW ON RENTED LAND.

A Subscriber, Reinbeck, Iowa.—In 1912 A rented a 240-acre farm from March 1, 1913, to March 1, 1914. Eighty acres of this farm was situated nearly a mile from the other part of it. The owner sold the eighty acres in 1913, possession to be given the purchaser on March 1, 1914. The straw that was harvested on the eighty acres in 1912 is still on it. Have I the right to haul this straw to the other part of the farm, the 160 acres where the buildings are, while I hold possession of the rented premises? Nothing was said in our rental contract about this matter, but it was orally understood that I was not to sell or burn any straw.

Answer.—The straw on the eighty acres does not belong to you, because it was harvested before your term as tenant commenced, but if your landlord consents to it, you have a right to remove the straw to the 160-acre tract before the first of March, 1914. The purchaser of the eighty acres has no right to the straw unless the owner of the land actually sold it to him. It did not go with the mere purchase of the land, being personal property.

INHERITANCE IN ILLINOIS.

A Subscriber, Monmouth, Ill.—Where a person in Illinois dies without making a will and leaves personal property and has no kin nearer than nephews and nieces, are first cousins entitled to any part of the estate?

Answer.—They are not. The nephews and nieces are entitled to the whole estate.

REWARD OFFERED BY GOVERNOR.

A Subscriber, Redding, Iowa.—Has the governor of Iowa the power and authority to offer a reward for the apprehension of guilty parties in a murder case?

Answer.—The law of Iowa provides that whenever the governor is satisfied that a crime has been committed within the state, punishable by death, or imprisonment in the penitentiary for a term of ten years or more, and that the person charged therewith, has not been arrested, or has escaped from arrest, he may in his discretion offer a reward not exceeding $500 for the arrest and delivery to the proper authorities of the person charged, which reward, upon the certificate of the governor, that the same has been earned, shall be audited and paid by the state.

NOXIOUS AND OTHER WEEDS—NEW LAW.

A Subscriber, Neola, Iowa.—What is the new law in Iowa concerning the destruction of weeds on the public roads?

Answer.—The law passed by the 35th general assembly provides that all owners, occupants, or persons, companies or corporations, in control of lands in Iowa, improved or unimproved, including rights of way and depot grounds, and lands in which the public has an easement for roads, streets or other rights of way, and all other lands shall cut, burn or otherwise destroy all noxious weeds at such times as to keep them from blooming or coming to maturity, and keep said lands free from such growth of other weeds, so as to render travel safe, and not interfere with the construction or re air of streets or roads, and shall cause to be cut, near the surface, all weeds on the streets or highways adjoining said lands, between the 15th day of July and the 15th day of August in each ear. Upon failure to do so, the board of trustees or city authorities may order the same to be done within a certain time, giving notice to the owners, and, upon failure to comply with such order, the trustees or city authorities may cause the same to be done and assess the cost thereof as a special tax against the owner and the land. Any township trustee, road officer or other officer, who fails or neglects to perform his duties under said law is liable to a fine not exceeding $100. This law took effect in May, 1913.

UNCOMPLETED SALE OF LAND—COMMISSION.

An Iowa Subscriber.—A listed his eighty-acre farm for sale with B an agent, at the price of $125 per acre. B then sold the farm to C, who owns an adjoining place for said price as listed. B made out the contract of sale and had C sign it and C at once gave his check for $500. B then asked A to sign the contract, but he refused to do so and will not carry out the deal. (1) Can C compel A by law to convey the land according to the contract? (2) If C cannot have the land can he recover damages from A? (3) Can B recover commission from A for finding a purchaser for the land at A's price?

Answer.—(1) C cannot compel A to convey the land because there was no written contract to that effect signed by A. A contract for sale of real estate must be in writing signed by the parties, or their duly authorized agents. (2) C cannot recover damages from A for failure to convey the land. (3) B can recover from A whatever amount of commission was agreed upon between them, for finding a purchaser at A's price.

DISEASED HOGS—DAMAGE BY HORSES.

A Subscriber, Vail, Iowa.—(1) A and B are neighbors and the public road runs between their farms. About a month ago A lost most of his hogs by cholera and a week or so afterwards some hogs he had left came over to B's hog yard and fought with B's hogs through the wire fence. B drove them home several times and requested A to keep them there, but the hogs continued to come and lie around on the outside of B's fence next to his hogs. In about ten days B's hogs became sick and are dying off. What recourse has B if any? (2) A allows his horses and cows to run in the public road and his horses come up to B's fence and fight across it with B's horses and paw down the fence, what can B do about it?

Answer.—(1) The law of Iowa provides that it is unlawful for any person negligently or wilfully to allow his hogs, or those under his control infested with any disease, to escape his control, or run at large. The penalty for a violation of this law is a fine not less than $5 or more than $100 or jail not exceeding thirty days, or both. B can also sue A for damages and recover for all loss he suffered by infection of his hogs, caused by disease from A's hogs. (2) B can recover damages from A for loss caused by A's horses under the circumstances stated above.

It is estimated that the losses to farmers in the vicinity of Harvard, Illinois, from hog cholera ravages will reach about $100,000. One farmer suffered a loss of $1,100.

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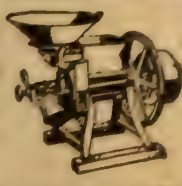

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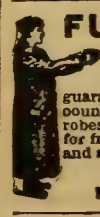

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Send us your shipments of RAW FURS and HIDES. Why not deal with our liberal, near-at-home, Western House? We will handle your shipments fairly, give you prompt returns, and in every way make it to your interest to deal with us. Write for price-list and full particulars, before you ship a skin.

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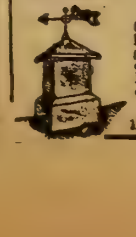

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What do you want an Axe to do? Cut; cut deep; cut easy; cut clean. You can't expect an axe shaped like a cold chisel to be a sweet chopper, to cut deep and clean.

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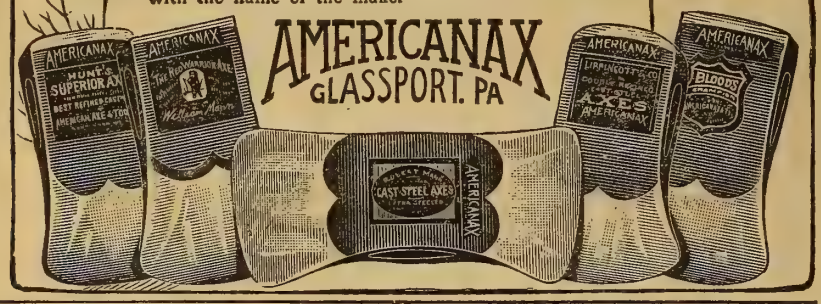
Imitations have a paper label only, but our axes are stamped deep in the steel, where it can never come off, with the name of the maker—



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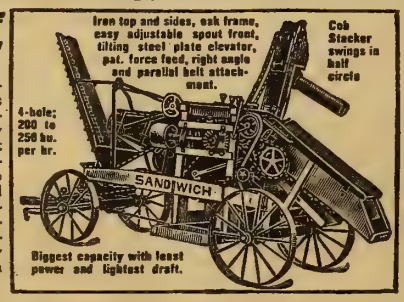
The world's first Power Corn Sheller was born in our factory before the civil war. Now most makers copy it—as far as the law allows. Others try to substitute. But all have failed. For imitation means limitation. Without Sandwich inventions they can't equal Sandwich performance.



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First call—Top pay

You will get them both from Farmers who hire their crop shelled. They've learned from boyhood that the Sandwich *no-choke screens* turn the corn out clean as a whistle—soft, sound or frosted. Then the corn grades highest. So Sandwich sales lead other shellers 300%.

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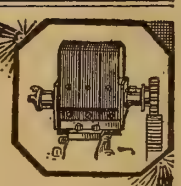

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—or expense, either, when you own a Lauson Frost King Engine. New Sumter Gear Driven Magneto built into the engine entirely eliminates batteries, their expense and troubles.

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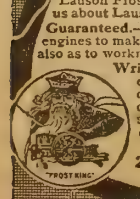

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The John Lauson Mfg. Co.
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2

Killing and Dressing the Hog.

THE hog that will dress out about 200 pounds is the most satisfactory to kill. Larger hogs are harder to handle, the meat cools slowly and is liable to spoil before thoroughly cured.

A great deal of time and trouble can be saved if the tools and other equipments for killing and dressing the hog are gotten together beforehand. There should be a scalding barrel and a table for scraping set in a convenient place. The lower end of the barrel should be dropped into the ground about six or eight inches that it may be held firm when leaned against the table at an angle of forty-five degrees. The table or platform should be made strong and solid so that persons can work freely when standing upon it. A rifle, sharp butcher knives, meat saw, hog hook, knife sharpener, and gambrel sticks are some of the tools needed.

If the water is boiling hot when poured into the barrel, the temperature will have been reduced to 185 degrees by the time the hog is ready to be scalded. The water may be heated on a cook stove or out of doors in a large kettle with feet set upon bricks. Pieces of iron or flint rocks may be heated under the kettle to be used for keeping water in barrel to the scalding point.

If a quart of wood ashes, a tablespoonful of concentrated lye, or a little soft soap is added to the hot water, the hair and scurf will slip more readily.

Some farmers prefer not to stun the hog before sticking it. It is simply caught by putting a slip noose about the hind foot, then thrown on its back, one man holding it by its front feet while the other sticks it. A great majority prefer to stun the hog with an ax or shoot it between the eyes with a target rifle. The rifle proves very satisfactory, as one is not compelled to get close to the hog, thereby exciting it before it is killed, neither is the hog's head bruised as with an ax.

The hog should not be scalded until life is entirely extinct. The blood in the small surface vessels will be cooked, giving the hog a reddish tinge after being scraped. After throwing the hog on the table, test the water, and if it is the right temperature just slip its head and forequarters into the barrel and turn him slowly to avoid cooking the skin. One can easily do this by catching its hind feet, one in each hand. In a few minutes draw it out and let it air for an instant, then slip back into the barrel. When the hair slips freely from the shoulders and head the scalding is complete. The hog should be pulled from the barrel, turned quickly and other end slipped into the barrel. The hog hook may be inserted in the lower jaw, and it can be easily turned about or drawn from the barrel.

When the hog is sufficiently scalded it should be drawn from the barrel and the hair removed from the feet, ears and snout at once, as these parts cool more quickly. This can be done by grasping the parts in the hands and twisting round and back on them. After these parts are cleaned straddle the carcass and use a scraper which may be a well-sharpened corn knife. The hair and scurf will be readily removed with this instrument by catching an end of it in each hand and scraping briskly from shoulder to ham. The small patches of hair that remain may be scraped away with knives. Throw hot water from the barrel over the hog and scrape or shave off all remaining hairs.

The gambrel cords that run from hocks down to the big toes must be drawn out. With a sharp knife cut the skin from hock to toes. Run the knife on each side of the tendons in order to sever the branches that run to the dewclaws. Slip the thumb beneath the tendons and insert one end of the gambrel stick, which should be from sixteen to eighteen inches in length. Having placed a box or table beneath the place for hanging, lift the hog to it and draw to place by means of rope tied to center of gambrel stick and thrown over pole or rung in ladder. The gambrel stick may be made secure by a strong wire about pole.

Throw over the suspended hog a couple buckets of hot water and scrape off all filth from tail to snout, then rinse him with cold water. Sever the head from body by cutting around the neck at point where he was stuck. The bones in the neck may be disjointed by taking the snout in one hand and holding the other hand to back of the neck and giving a quick jerk of the snout. Put the head in a bucket of cold water and all the blood will be drawn out.

In removing the entrails with a sharp knife separate the hams down to the aitch bone. This joint may be severed with the meat saw if not with the knife. After making an incision into the abdominal cavity, run the two front fingers of the left hand just inside with back of hand to the intestines. Now cut between the two fingers, running them down as flesh is severed until the breast bone is reached. There will be no danger of cutting an intestine by this method of operation.

Split the breast bone with the knife or an ax. Cut around the rectum, freeing it. Tie it close to the opening so no refuse will drop out. The hand may now be slipped behind the intestines and paunch, and they can easily be pulled out into a tub held just above the fore feet. The liver, heart and lungs may be removed by severing the artery that runs along the back bone, then lifting them out with the hands. At once strip the gall duct from the liver, taking care that none of the contents come in contact with the liver. Wash the blood spots from inside the hog by dashing a bucket of cold water into it. Spread the hog to cool by means of a small stick running from side to side.

It will no doubt be wise to let the hog hang out until after sundown unless the weather is very cold. The idea is to get all the animal heat out of the hog before cutting it up. Unless this is done the joints are apt to sour when salted down. A cooling of from thirty-six to forty-eight hours will be necessary when mercury runs from thirty-two to forty degrees above zero. At night the hog may be placed on a screened porch or hung up in the meat house, but be sure it is beyond the reach of cats, dogs and the sneak thief.

Put the hog on its back on a table or box two feet wide, three feet long and two and a half feet high. With a knife cut across the hog's flanks, severing the hams from the rest of the body about an inch above the point where the hip bones join the back bone. The leaf fat may now be removed by running the hand beneath it at front part and gradually lifting it out. Lay the hams to one side and with saw sever the ribs on either side of backbone, then saw down between the backbone, and each shoulder, spreading the hog apart all the while. With a knife cut through the hog on each side of backbone.

Remove the long strip of fat from under side of backbone for lard and cut away the surplus lean meat for sausage. As the hog is now divided into two parts the ribs may be removed very easily by running a knife beneath them near the shoulder. Cut a slit between two front ribs, catch the fingers of the left hand into it and pull forward at the same time cutting beneath the ribs and as close up to them as possible. After the ribs are removed, the shoulders should be trimmed of all bloody scraps.

The strips of tenderloin lying along the back part of the sides should be pulled loose and the sides severed from the shoulders and trimmed of all surplus strips of fat. If desired, the sides may be rendered into lard.

In trimming the shoulders, cut away the brisket flaps, trim off a part of the neck portion and round the corners, making the shoulders appear as smooth as possible. Saw off the feet, leaving a stub about three inches long.

The hams should now be placed on the table and separated by sawing on either side of the tail bone. The tail bone should be trimmed of the fat and laid aside. From each ham remove the triangular part of the flank. Each ham should be rounded by sawing off the point of the bone that joined the

vertebrae and cutting away the points of meat. Saw off the feet two inches above the hock and the ham is ready to be cured.

In cutting up the head, remove the ears with a sharp knife. The lard may be fried out of them in a pan with the skins. Divide the head into four parts. Cut down between the jaws with ax or hatchet, then sever the two parts in halves. The brains may be removed from their cavity with a tablespoon. The four parts are now small enough to be cooked in a vessel until the meat separates from the bones. It might be well to cut away the jowls for lard before dividing the head.

A PRACTICAL STUDY OF FAILURE TO GET A STAND OF CLOVER.

(Continued from page 3.)

can usually be obtained if one is only willing to pay enough to get it. It is not so much a question as to the high price of high-grade seed as it is why buy weed seed and clover or alfalfa seed of low vitality because it is cheaper than the best seed practically free from weed seeds when the farm is already overstocked with weed seeds of all kinds. Clover and alfalfa seed to be bought to the best advantage should first be submitted to the state experiment station where it can be examined for impurities, their kind and extent and where a reliable germination test can be made of the same. An advantage in the purchasing of good home-grown seed which is not appreciated as it should be, is that clover and alfalfa seed obtained from one's neighbors is less likely to contain impurities foreign to the neighborhood while, too, it is often possible to select seed from fields known to be free from dodder and other objectionable weeds.

When the proper bacteria are present in the soil, clover and alfalfa and the other legumes develop nodules upon their roots in which the free nitrogen of the air is so changed by the enormous numbers of these bacteria living within these nodules that the plants are able to make use of it in their growth and development. To determine whether or not the soil contains these bacteria of such vital importance to the legumes, pull up some old clover plants which are usually to be found in the fields and examine them for the small nodules or knots on the roots. If they are present there is no need of inoculating the seed or the ground, while if they are not present, it is well to either inoculate the seed itself with a pure culture of nodule bacteria which can be obtained at most any of the up-to-date seed houses with directions as to how this operation is done or to inoculate the field with from 100 to 500 pounds of soil per acre from a field which has shown a good development of the nodules. The latter way has an objectionable feature, however, in that there is a danger of introducing seed of objectionable weeds or of spreading plant diseases which is done away with when the first method suggested is employed and a pure culture is used to inoculate the seed instead.

No definite depth of the ground water as the most favorable to crops can be given, as it depends largely upon the nature of the crop, its root system and habits, and the nature of the soil in which the crop in question is growing or about to be grown. Thus while alfalfa finds itself hampered when the ground water is less than five feet below the surface of the ground because of its deep-rooting habit, clover may be grown where the water level is not within a foot or more as deep, even three feet being sufficient. Experience has long since settled on the proper depth at which to lay drains limiting the rise of ground water at from three to five feet in clay soils, four feet being a common depth.

Plant roots always penetrate less in clayey soils than they do in sandy soils. This is in conformity with the fact that in the humid region, anyway, the four feet of clay loam soil is commonly considered as sufficient to meet the needs of a crop, such portions usually being the richest in plant food so deep that a deeper penetration is not necessary, while on the other hand, the sandy soils being usually poor in plant food necessitate that the roots penetrate to greater depths in order to obtain the same amounts of plant food. Land of a rolling nature and with good natural drainage will offer but little, if any, trouble along this line and it is for this reason that those advocating the trial patch of alfalfa in the last few years have invariably advised the using of land with good natural drainage as one of the main qualifications in selecting the trial plot. We are all more or less familiar with the benefits of drainage and that it not only improves the fields in wet weather but also makes the moisture in the soil more available in a drouth, as well, but let this one benefit suffice, as it relates to the topic being discussed.

Everyone is aware that weeds and good crops of any kind cannot grow and develop on the same field at the same time. Nevertheless it is perhaps well to mention it again, as it is essential that there be no weeds to hinder the slowly-growing clover and alfalfa plants from gaining a foothold in the soil. Pains should be taken to have the seed bed in as good a condition as possible so as to give the crops a fair chance to get a good start and to maintain it until firmly established. It may be of interest to note in the mention of weeds that dodder is one of the worst weeds with which the clover or alfalfa grower has to contend, as dodder trouble is chiefly with these crops, since they ripen at the same time as their parasitic foe and their seeds are so near the same size as that of dodder as to make an absolutely pure sample from an infested one practically impossible. Not only do the seeds mature at about the same time as clover and alfalfa, but they also germinate just a trifle slower, so that they really appear at about the same time as the host plants. Care in introducing this weed is much more practical than its extermination, as it is very hard to eradicate it after it is once established. Three things

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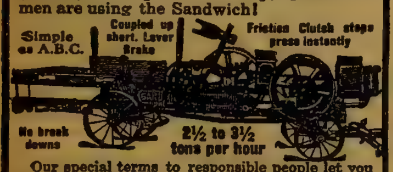

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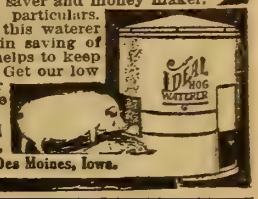

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Beats Everything As A Worm Destroyer **A. U. PATE, Blue Jacket, Okla.** "I have been feeding Merry War Powdered Lye to my hogs for worms. It beats everything I ever saw."

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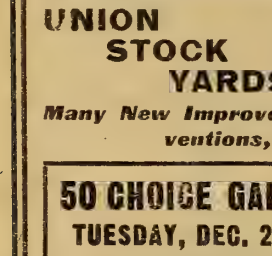

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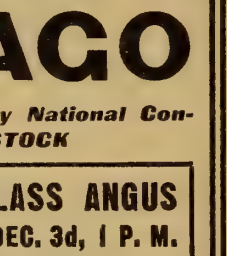

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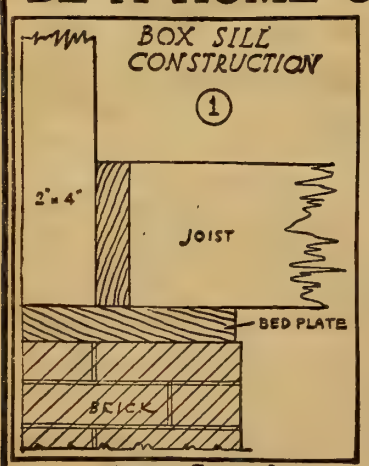

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are absolutely essential in destroying dodder, no matter what method is used: first, it must not be permitted to go to seed; second, immediate action must be taken as soon as it is found present so as to keep down the initial devastation as much as possible; and third whatever means is employed must be absolutely thorough, as a neglect of one or two living pieces of dodder stems may entirely spoil all results of one's labor.

The legumes are dependent upon the nodule-forming bacteria mentioned in a previous paragraph, the absence of these organisms in the soil spelling failure of the clover or alfalfa crop. Lime is very essential to the health and life of the soil bacteria, as it overcomes any acidity of the soil when it is applied in sufficient amounts, helps to destroy toxins or poisons that have developed, releases or unlocks the plant food in the soil and promotes a thrifty growth of the crops in general. Since acid soils can be improved so much by liming and alkaline soils of course do not need it, it is advisable to test the soil for acidity before seeding. A test for the acidity of a soil which is a quite accurate one, especially when used in connection with an observance of the kind and character of the growing vegetation, is that of the litmus paper test which consists of making a thin mud of some of the soil in question, using pure water, after which the litmus paper is placed on some of the mud and covered with it. After fifteen minutes or so remove the paper and wash it if necessary to show the color when if it has changed from blue to red the soil is acid. Most druggists keep litmus paper.

There are various forms of lime which may be used for agricultural purposes; their relative value for neutralizing the acid in the soil and their effect upon the physical properties of the soil as well as the price of each determining which should be used. Anyone preparing to use lime should acquaint himself with the different forms in which it may be purchased, their relative rapidity of action, and the ease with which certain forms are handled compared with others. The question is not a difficult one, but time spent in this study is sure to pay well in helping to select which form to use and how to apply it to the soil and possibly when.

Then last, but not least, there may be soils lacking in one or more of the elements of plant food aside from nitrogen. If not enough manure is available (liquid included) these elements can be supplied by means of those commercial fertilizers which supply potash and phosphorus. Two hundred pounds of bone meal or 250 pounds of acid phosphate and fifty to 100 pounds of muriate of potash as a suitable top dressing per acre may be used where it is known that the fields are low in these elements of plant food. On most clay-loam soils, however, potash is always quite plentiful.

DEHORNING CATTLE.

To the Editor of The Homestead:

Dehorning is not so cruel as some people think. While the animal suffers some pain during the operation it is only of short duration. Milk cows that have been dehorned have shown but very little if any shrinkage in quantity of milk and butter fat. This would show that the pain after dehorning is very insignificant. So the suffering is not to be compared to the beneficial results. There will be no more worry and pain and cruelty inflicted upon their mates by sharp horns. I have known vicious cows to disembowel a mate while together at the same rack or in the same stall. This can never happen when they are deprived of their horns. Then more cows can be kept together in the same corral. They will crowd close together like sheep without any harm to each other. There will never be any danger for the farmer as he goes among his cows or steers. He will feel perfectly safe.

Dehorning is not a difficult task if one prepares for it. The gentle animal may be dehorned by securing her head with a rope to a horizontal stanchion rail or stringer. The idea is to secure her head so she cannot throw it around and secure the rope around her neck and about her head so she will not choke herself. Then the horns can be quickly removed. Another method is to throw the animal and hold it stretched flat on the ground by a rope around its neck and one around its hind feet. The end of each rope being held by a man on horseback by attaching it to his saddle pommel. The assistant grasps the nose and upper horn, turning the head so that the lower horn can be removed first. But where there are a good many animals to be dehorned at one time the corral and a chute pen is almost indispensable. The cattle are put into the corral and one by one run into the long chute at the end of which is the squeezer where the animal's head is held securely while the operation of dehorning is performed. With this quite a number of animals can be dehorned in a day.

There are two instruments used for dehorning, the saw and the shears or clippers. I prefer the saw as there is no danger of crushing the horn as with the clippers. If horn is crushed broken pieces are liable to get into the opening which act as an irritant and sometimes cause inflammation and the formation of pus which may result seriously. The saw cuts clean and leaves the opening clear.

The horns should be severed about a half inch below where the skin joins the base of the horn. Always saw from the back toward the front of the horn. Cutting the horn too high sometimes results in a gnarly growth of the horn. This will give the animal an ugly appearance. In different breeds of cattle the point of union of skin and horn varies. The skillful eye comes to know where to cut.

After the horn is removed it is not positively necessary to apply any preparati n, as the loss of blood is not very great. If animals are dehorned in warm weather an application of pine tar will keep all flies away, and some operators claim it heals the wound rapidly. It is best, however, to remove horns in cold weather when there will be no danger of flies.

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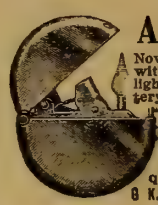

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AGRICULTURAL CO-OPERATION FOR PROVIDING FARM LABOR.

(Continued from page 7.)

brought about in France under the authority of the Central Bureau of Labor.

Under the second proposition, the co-operative employment of labor, some beginnings, not consciously co-operative, have been made. Both in this country and abroad some more or less effective societies for the purchase and use of farm machinery are now in existence. From the co-operative purchase of a spraying apparatus or a clover huller it is but a step to the co-operative employment of the crew that handles the machine. Some rather difficult problems are likely to arise in connection with the joint purchase of farm implements, and in the United States the problem has usually been solved by allowing one man to purchase the machine which he operates for his neighbors or rents to them at a fixed price. This is likely to occur in the case of expensive machines. Threshing outfits, corn shredders, cottin gins, clover hullers, outfits for filling silos, digging ditches, sometimes for spraying orchards, cutting grain, steam plowing, sawing wood, and other operations with or without the full complement of operators, are becoming common throughout this country. Other things being equal, there is a decided gain in efficiency when the same crew handles a machine day after day. For this reason, and because laborers for a short period are frequently hard to procure, the machine owner usually furnishes all or most of the crew necessary. Where competition is keen enough to assure adequate service at reasonable rates there is little direct gain in co-operative ownership and use. But in a community where one or more specialized crops are grown, requiring the services of a considerable body of laborers for a short season, the co-operative employment of a gang or crew of hands to handle certain machines owned by individual members or to perform certain tasks is entirely feasible and would be decidedly advantageous.

In most sections the growing of sugar beets would be quite impossible were it not that the sugar companies furnish gangs of laborers who go from farm to farm to weed, thin, hoe, pull, top and pile the beets at a given price per acre. Accompanied by portable shanties or cabins on wheels, they carry their beds and board with them, they give the housewife no additional work, and the farmer is relieved of all the anxiety, and trouble incident to hiring a transient crew several times during the season to cultivate his crop.

What the sugar company is able to do for its growers a number of small onion or fruit or potato growers should be able to do co-operatively. The crew should be paid as a whole, by the piece or by the day, should be under the supervision of one man, follow an itinerary decided upon, by the co-operative association, and otherwise conform to rules mutually agreed upon. An arrangement of this sort would make possible the growing of small acreages of perishable money crops over a much wider area, with more economy and efficiency than under the present system, would give the laborers an incentive of a longer season of labor, the opportunity to increase their wages by greater industry and skill, and the assurance of comparatively steady employment during the period of contract.

A crew of potato harvesters, onion gatherers, or fruit pickers going from farm to farm, hired under contract by a co-operation of growers, is by no means visionary or Utopian. Crews of fruit handlers are in effect already in operation among the co-operative fruit societies of the West. To assure success it is essential that the product be specialized in a community and that the acreage be sufficient and not too widely scattered. Many problems of administration present themselves, but patience and intelligent management will, in due time, bring about the necessary adjustments.

As to companies of laborers—when the farm laborers of the United States become a little more class conscious, united and enterprising, we may look for organization of small co-operating groups, like the old-time sheep-shearing or cattle-driving crews, to perform special agricultural tasks. In a few parts of Europe these associations of laborers have found a place in the rural economy, and unorganized groups are found here and there in this country.

Economically they are justified by their superior efficiency. They know each other, and each knows and does the task for which he has special aptitude; they acquire skill, quickness and facility, and gain by organized, systematic effort. In practice, however, such groups can be developed more readily by a manager-employer. Hence at present the co-operating farmers previously described can more advantageously take the initiative in making up such crews.

Collective farming is a means of providing agricultural labor that has won little recognition except in a few European countries, notably Italy and Hungary. Even in these countries the purpose is to eliminate the middleman—the speculator who rents large tracts from the owners and sublets them in small parcels at greatly increased prices to the peasants. Especially in Italy, however, the outcome socially, politically and agriculturally has been striking. Class consciousness, political solidarity, and intelligent, purposeful, prosperous agriculture has resulted. The collective farming organization has been the nucleus whence sprang many varieties of co-operative effort, including co-operative purchase of machines and hiring of laborers.

Mostly, each man operates his individual field, but on operations requiring a number of men several farmers join forces and work together, going from farm to farm. This scarcely differs from the custom of "changing work" in haying, stacking, threshing, etc., still common in parts of the United States.

The collective form, or co-operative small-holding society, has little to commend it to our farmers, although it is gaining a foothold in England. But the principle of j ning labor forces under a well-considered plan, to perform operations that several men can accomplish more efficiently than one or two, or that would otherwise necessitate the employment of transient day labor, is altogether sound in theory and worthy a practical trial.

Of these four propositions, the co-operative farm-labor bureau and the co-operative employment of labor crews for the year or season present themselves as the most immediately practicable and feasible. They at least merit discussion and thoughtful consideration, and I believe adoption and trial.—[A. L. Cance, of Massachusetts, in address before Farmers' Institute Workers.

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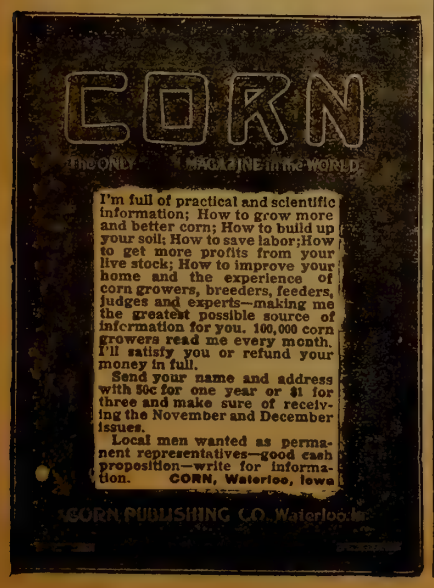

ECHOES FROM A KANSAS FARM.

It still feels like winter, although barely November. We have had two regular snow storms and several freezes, with a low temperature the last days of October that broke all records for such an early date.

A man who has already fed considerable of it says that silage made from this year's corn crop should be fed at the rate of sixty pounds a day when forty pounds of the ordinary silage was used. This means that it takes sixty pounds to do the work of forty pounds such as ordinary corn produces.

It is an absolute certainty that corn fodder will feed out no better than the silage, so those who have counted their shocks and figure the usual number for wintering a certain number of cattle are going to get left. The feed question, with only a little winter to scare us, already looks mighty big.

The petty thief is one of the most despicable beings to have in a neighborhood. A neighbor reports that he loses many things when all the folks are away, and of course they go where folks live who can see when no one is at home. He plans on making a sneak back home one of these times, after all are seen to go away, in the hope of catching the thief in the act.

Here in Kansas it is a penitentiary offense to steal chickens. This has done much to stop chicken stealing, a very common form of petty stealing a few years ago. Prosecutors are a bit too timid about enforcing this law, however, as two or three chicken thieves have been caught in this section of the country and then paroled. The way to make people respect the law is to enforce it to the limit.

We heard a man argue, the other day, that he could now rent a farm cheaper than he could own one. He figured money at 6 per cent and declared that he could rent many farms for a cash rent much less than 6 per cent of their selling value. Take, for instance, the farm selling for $50 an acre, he said he could rent it for less than $3 an acre.

All the same, with the money in hand to make a nice payment on a farm, if we were a renter we would quit being one and become a landowner. There is no peace of mind like that which can be experienced by the man who owns his home. A renter knows not what year he may have to move. At the most, the term of a lease is short, and the renter who is found occupying the same farm for ten years is rare.

Four years ago the first of this November we bought the auto we now have, the first and only auto we have owned. It still gives excellent service and bids fair to outwear many of the newer machines. Of course it lacks foredoors, self starter, electric lights and many of the more recent improvements, but it goes and comes as we want it, many times when the roads are so muddy the finely finished cars are not taken out for fear of marring the finish.

We do not believe in owning anything too nice to use except under the most favorable conditions. Life is too short and things become old too quick for this, even when not used. Of course this does not mean that a person should take no care of what he has, but it does mean that a person should not put things away only to take them out on rare occasions, when all conditions are exactly favorable. We have known of folks who would ride half the time in a lumber wagon rather than take the buggy out for fear of spattering it with mud.

Since this country was settled there has been a gradual increase in the value of land. There is no reason to believe that the increase in value has yet stopped. Men may argue that the height has been reached, but men have been arguing that ever since land sold for $10 an acre. When $25 an acre was reached here many folks said that was high enough—that folks were fools to pay more—but since that time there have been plenty of fools. Land is to be much higher yet, and the man who buys at present prices will realize a nice increase before he is tired of waiting for it.

The cold weather has done one thing, which is to bring folks to a realization of the amount of feed that will be required to carry stock through the winter, particularly of such feed as we have this year. Pastures now have gone, and the feeding season is directly before us.

The forests of Norway are mostly in private or municipal ownership, the nation owning 28.5 per cent of the total forest area. The national forests of the United States occupy only about 20 per cent of the total forest area of the country.

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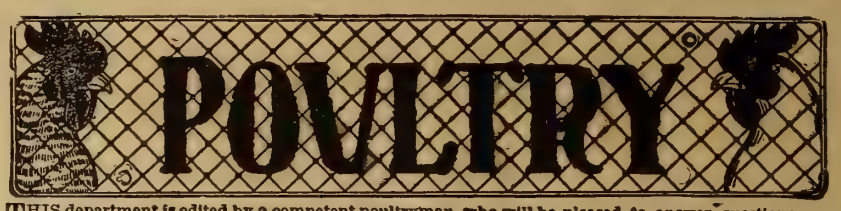
M. W. Benington, R. 2, Box 62, Chariton, Ia.

Mention The Homestead when writing.



THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

GROWING SQUABS FOR MARKET.

For the most part, growing pigeons is regarded as a hobby. Almost all classes of people are interested in these beautiful pets. Even in the heart of a great city there will occasionally be found small flocks of these beautiful little creatures that, unafraid, will alight at the very feet of the hurrying pedestrians.

Then, there is another branch of pigeon breeding that is far removed from all sentiment. It is that of raising squabs, or young pigeons, for the cold cash they will bring. Squabs are considered by epicures to be the most delicious of all poultry products. The demand for them is steadily increasing, and the price is rising in common with that of other poultry products. So great has been the demand, that some poultry raisers produce what they term "squab broilers," which is not a pigeon at all, but a chicken that has been crowded from the shell to weigh one pound in the shortest possible time.

Squab raising possesses certain very definite advantages as compared with other branches of poultry keeping. It may be conducted as an exclusive business, combined with other lines of poultry keeping, or operated as a side line to furnish the home table.

In this, as in every industry, the start should be made on a small scale and the business developed as experience is gained, and the results warrant. Such a plan involves only a small initial investment, and a very small loss if the operator decides, after all, that he is not taking it seriously.

There are many advantages in this line of work. Only a small area of land is required, as the breeders are never allowed their liberty, but are kept confined in the house and adjoining flight, or exercising pen. A good-sized plant may be successful on a town lot. All the work of hatching, brooding and feeding is performed by the parent birds. This cuts out the hardest and most trying part of the whole poultry business. Vigorous pigeons make good breeders until six or seven years old, and this does away with the necessity of renewing the breeding stock every year, something that is of much importance.

Then there is the other side of the question, which is fully of as much importance. It must not be thought that squab raising has no disadvantages, because, in common with everything of any import, there is always the "other side." It is a business of endless detail and requires very special knowledge and experience on the part of the operator. Poor breeders may reduce the profits, disease may deplete the flock, and a pigeon plant will get overrun with insects in an incredibly short time. The plant must be large enough to supply a sufficient number of squabs to insure a good-sized shipment each week. The squabs must be dressed when they reach the proper size. They can neither be held until enough has accumulated to make an economical shipment, nor held until the market improves. This is the most perplexing problem a squab grower has to contend with.

Not more than fifty pairs should be kept in one flock, and a room ten feet square and eight feet high will accommodate this number. An enclosed flight, in addition, is absolutely necessary. The floor of the flight room should be kept sanded, renewing often. Nest boxes, two for each pair, may be constructed similar to pigeon holes in a desk; these should be 6 foot square. In these compartments place nest bowls, which can be purchased from a supply house. There must be water for drinking purposes, and water for them to bathe in.

This ration has been tested and found good: 45 per cent cracked corn, 45 per cent red wheat, 10 per cent Canada peas. Hemp and buckwheat in small quantities at intervals. During the winter increase the corn; give more wheat in hot weather. A conservative estimate of profits is from one to three dollars for each pair. It is possible to realize double this amount, depending on the person back of it.

BROKEN-DOWN FOWLS, PROPER RATION, SEPARATING BREEDS

"Wm. C. R.," Iowa, is experiencing "all kinds" of trouble with his fowls. In a recent communication he says:

After my chickens were about six weeks old, one became afflicted as follows: It would eat and drink as the rest, but its back seemed to be broken, at least it would drag in the back. Just recently another pullet, about three months old, became affected the same way. Both of these pullets were killed and examined. I would like to know if the trouble was caused through injury, or is it a disease, and if it is contagious. Also, what to do as a preventative, and if there is a cure.

What do you think of the following ration for chickens: Barley in the morning, wheat at noon, and middlings soaked all day and made very thin for the evening. The chickens have a big run, and plenty of grass.

In the first instance, it is not a case of disease, simply a "breaking down." There are two general forms of the trouble, the most common being that when the abdomen has become so distended and enlarged that it drags upon the ground. This is more common in old fowls that are inclined to take on fat. In the other form, the back part of the body is depressed, while the front part is elevated, and the legs spread apart. Our correspondent's fowls are afflicted with the latter form.

In this form it is often temporary, though a fowl that recovers is unfit to use for a breeder. The cause is due, either to constitutional tendencies, or wrong feed, or both. Chicks that have been raised in confinement and fed an excessive proportion of soft foods, with an absence of lean meat, cut bone and green stuff, grow an abnormally large bone that is soft and spongy. With this kind of a frame, a pullet is subject to "breaking down." The trouble is aggravated by the attentions of a male.

Ordinarily, such a hen is fit for food. Prevention is the only remedy worth while; begin now, to prevent trouble next season by excluding all afflicted hens from the breeding pens. Avoid breeding from birds that have large, loosely-knit frames and lacking in a strong well-proportioned build. In other words, size up your flock, and mercilessly cull out all that, in your judgment, do not have strength enough for their size.

Wheat, barley and oats do not vary largely in composition, and any one is good, or all, for that matter. If the middlings were fed dry in a hopper, with equal parts bran and one part beef meal to ten parts of the whole, they would be all right too. Being soaked thin is, in a measure, responsible for the condition of this flock. Fowls need hard grain to keep the digestive organs in a healthy condition. This is a very simple ration, and, at the same time, would probably suit the case of our correspondent. On the farm where it was fed, the flock averaged better than 150 eggs per year. It is well to remember, that a good egg ration is a good growing ration.

Ground oats, four parts by weight; bran, four parts by weight; cornmeal, two parts by weight; beefmeal, one part by weight. The above mash should be fed dry, and the fowls may have access to the hopper in the afternoon only. As a grain ration, feed the following: corn, two parts; wheat, one part; oats, two parts. The grain ration to be fed in deep litter, so that there will be an incentive for the fowls to keep busy. If the barley is to be used it would better be crushed and added to the mash, two parts of the whole. These rations should, of course, be supplemented with green feed. The grassy lot mentioned will supply succulent food so long as the weather is favorable.

In reply to the last question, it largely depends on how long the hen has been laying since the last fertilization. Any time from two days to two weeks. In most cases, ten days would be long enough. However, promiscuous mating is to be discouraged. Many non-fertile eggs could be traced to permitting a hen to choose her mate, and then changing her to another pen.

THE SECRET OF WINTER EGGS.

To the Editor of The Homestead:

We are often confronted with persons who seriously believe that success in the poultry business is obtained through the medium of "secrets." These individuals are either ignorant, superstitious or wholly without knowledge of poultry.

The old heathen idea of success was that if you could not comprehend or understand how your neighbor made a success, he was guilty of leaguing himself with the devil to accomplish his purpose. Fortunately, we are getting away from that sort of reasoning. We are working from the complex to the simple. We know that a man achieves a result, not by some supernatural influence he brings to bear, but by the fact that he has solved the problems confronting him.

So it is with matters pertaining to poultry. We have learned to eliminate the complex things and introduce the simple. We treat our poultry as a machine, and with proper care any machine will produce satisfactory results.

The matter of winter eggs is one that causes considerable comment, and one that is not often satisfactorily solved. We find dozens of advertisements claiming to hold the "secret"

Make Hens Lay Best When Eggs Are Highest

Find Out How To Do It FREE

Write us today to find how to make 1 Bushel Oats go as far as 3 Bushels of the best *green* egg food—how to secure early winter hatches—how to sprout grain in 24 hours in a

"Successful" Sectional Grain Sprouter

How to make winter hatched chicks grow faster, prevent loss, develop them for market earlier, make them lay quicker. *Get this Free Information at once—address*

Des Moines Incubator Co.
586-3rd St., Des Moines, Ia.

$285 Motorcycle Given Away

Here is your chance to get a $285 Harley Davidson Motorcycle. Cut this picture into six pieces and paste or pin the pieces together so as to make a complete picture of a boy riding a motorcycle. Mail it to me with your name and address and I will tell you all about the great contest in which you can win the two cylinder eight-horsepower Harley Davidson Motorcycle—the best made.

1500 Votes Free

I will also send you a special coupon good for 1500 votes toward the motorcycle. All you have to do to get this coupon is to send your name and address at once.

Sec'y Popular Company
400 Popular Bldg. Des Moines, Iowa

to winter egg production, but as a matter of fact there is no secret to the production of eggs in winter.

If you will eliminate the element of superstition and will treat your hens just as you treat your dairy cows, for instance, you will stand a better opportunity of filling the egg basket when the prices are good.

We have learned that nature has laid down laws governing the action of poultry. Those laws are very simple and if we but keep them in mind we are in a fair way to succeed.

In the original or wild state a fowl was not expected to lay eggs except in the early months of the spring season. The act of producing eggs is the generation of species and this naturally came at the most favorable season of the year. But why is the spring the most favorable season?

One reason is that the weather is mild at that time. Another is that the awakening of nature stirs the blood and naturally calls forth the young life. But the most important, by far, is that the spring season finds more varieties of life, which the young fowls may feed upon, than any other season.

Scientists, by long experimentation, arrived at the conclusion that this abundance and variety of food stuff must have something to do with the production of eggs. They found that a combination of the three prime elements of food stuff—vegetable, animal and mineral—produced a balanced ration, which not only cared for the demands made by the body of the fowl, but also allowed a surplus for the production of eggs.

Then by the processes of scientific breeding we have produced a race of poultry that lay at any season of the year, if handled intelligently.

In view of this fact, it would seem that the winter egg question is not as complicated as may have been imagined at first. There are just two things to be considered in the production of winter eggs; first, the bodily wants of the hens, and, second, the ration supplied.

The demands of the individual hens and how to answer them is a question that cannot be solved by any definite rule. It is a question which will depend upon the judgment of the attendant. Different flocks will require different treatment. This is just as true in the case of poultry as in the case of the dairy herd. Dairymen will tell you that a cow will not produce milk until every need of her body has been supplied. This is also the case with a hen. As mentioned before, the production of eggs is the generation of species and that is never performed in any life until the individual is in the fittest physical condition. So keep your hens in good health. Keep them busy and keep up their appetites. A hen that is always on the go, always looking for another morsel, is the sort of hen that will be found laying eggs.

The ration is probably the secret, if there be any, of winter egg production. If you have a healthy hen and give her the proper care and ration, you cannot fail to get eggs when the prices are high. The writer has tried this many different times and under many different conditions and it always worked out to the same result. In this respect poultrymen look upon the hen as a machine. Feed the machine the proper materials, keep it in good condition, and you will be quite certain to obtain the finished product. In making up our winter rations, we have always endeavored to keep in mind the elements of food the hens would obtain when in the wild state. If we are to persuade hens to change their season of laying from the spring to early winter months, we must also change the environment and ration so that it will correspond, as much as possible, with the environment and ration of the spring months. In other words, we must make them comfortable and supply them a balanced ration.

In the matter of animal food, we cannot supply them with bugs and worms, but we have many substitutes that answer the purpose just as well. Any of the commercial beef scraps on the market will do very well.

In regard to green food, it may be supplied in the form of sprouted oats, steamed alfalfa, steamed clover, vegetable tops or chopped vegetables. Any method that is convenient to the attendant will be sufficient. We prefer steamed alfalfa, as it seems to produce better results at a more economical figure than any of the other forms of green food.

Mineral matter is supplied in the form of grit, oyster shell or gravel. It is a very important element and too often is overlooked.

Grains are one form of vegetable matter and are essential in the ration. Corn, wheat and oats are the principal standbys, but other grains are often fed with good results.

In the morning, we feed our hens steamed alfalfa mixed with wheat bran, at the proportion of one quart to 100 hens. We do not aim to satisfy their hunger, as we wish to keep them working in the straw litter until noon.

At that time we feed whole oats in the proportion of two quarts per 100 hens. This is fed in hoppers so the hens may have easy access to it. By two o'clock the majority of the hens have laid, and at that time we feed a small block of sprouted oats or vegetable tops.

At four o'clock in the afternoon, we feed generously of a ration of three parts cracked corn to two parts wheat. This is scattered in the litter and keeps the hens busy until dark.

When the final rounds are made in the evening, we scatter wheat in the litter, at the proportion of one quart per 100 hens, for the hens to work on as soon as it is light enough for them to see in the mornings. In this way they receive their principal morning feed long before the attendant is up.

The hens are kept generously supplied with water, which is boiling when placed in the fountains. This is done to keep it from freezing as long as possible. As an egg is over 80 per cent water, the hens must have an abundance if they are to produce many eggs.

Keep the hens happy. A very important thing that should always be remembered is to allow them plenty of fresh air. Many people fail on account of this oversight. Fresh air never hurt any fowl. It is the manner in which it is supplied that often causes trouble. The open-front house is the best type of house for the winter layer.

Care, comfort and proper rations are the only "secrets" found in securing winter eggs. Conduct the henyard as a business and you will find that poultry success is 99 per cent hard work and 1 per cent luck or the "secret" element. C. Sherlock.

POULTRY BREEDERS TO EXHIBIT FOWLS.

Poultry breeders from all parts of the state will be present with exhibits of choice fowls at the tenth annual convention and show of the Wisconsin Poultry Association, to be held in the livestock pavilion at the college of agriculture of the University of Wisconsin, Madison, from January 5th to 10th, 1914. Much interest is being manifested in poultry raising in Wisconsin, and the nearness of the principal meat and egg market in the middle West makes the industry especially profitable when given proper study.

The association is fortunate in having as its secretary James G. Halpin, head of the poultry department of the college of agriculture, to which position he came five years ago after having held positions with the Rhode Island and Michigan state agricultural colleges. Mr. Halpin, who is a graduate of Cornell and a native of New York state, is conceded to be one of the foremost poultry authorities in the country, and under his direction the Wisconsin association is becoming one of the strongest in the middle West. —[Wisconsin Farmer.

It is predicted that the time will come when beefsteak will cost a dollar a pound. Here's hoping it won't do any such thing. However, it's "an ill wind that blows nobody good." With the prices of other meat stuff soaring out of sight the prices of poultry and eggs comparatively, will advance, too. Never has the outlook for the poultry business been brighter. This, in the face of the fact that since the poultry industry assumed greater proportions, the cry has been sounded all along the line that the industry would soon become overdone. As a matter of fact, the increase of the demand far exceeds the increase of production.

POINTERS

—J. E. Lewis, Brayton, Iowa, advertises Indian Runner ducks on this page.

—Read the advertisement of Woodlawn Farm, Sterling, Ill., offering Rhode Island Reds for this sale that appears on this page.

—Rose Comb Brown Leghorn cockerels are offered for sale by Mrs. Roy Landis, Weldon, Iowa, in her advertisement that appears on this page.

—On page 16 of The Homestead appears the advertisement of A. D. Murphy, Essex, Iowa, offering 765 Barred Plymouth Rocks for sale.

—Mrs. James Pedley, Britt, Iowa, is quoting bargain prices on White Plymouth Rock cockerels and hens if taken at once. Her advertisement appears on page 16.

—Silver Laced Wyandotte cockerels, Rouen ducks and Fawn and White Indian Runner ducks are advertised for sale by Mrs. H. J. Miner, Wayne, Neb., in her advertisement appearing on page 16.

—For the next thirty days W. H. Patton, Iowa City, Iowa, will quote bargain prices on Rose Comb Rhode Island Red cockerels. His advertisement in which he states that he will guarantee satisfaction, appears on this page.

—F. E. Ristrim, Stanhope, Iowa, is offering White Plymouth Rocks for sale in his advertisement on page 16 of The Homestead. He writes: "My customers will receive larger and better quality birds this year than I have ever been able to offer."

—R. B. Lowe, Indianola, Iowa, has 100 Buff Wyandotte cockerels and pullets which he will offer for sale at prices within the reach of all. Write him what you want and he will describe what he has. By ordering early you can get the pick of his flock. His advertisement appears on page 16.

—In sending copy for advertisement appearing on this page Bert A. Randell, Mt. Zion, writes: "We have 500 birds to select from and as fine a flock as we have ever had. We have lots of cockerels and pullets up to standard weight and good all the way through. Are making special prices to move these birds before cold weather."

—Mrs. N. W. Burbank, New Sharon, Iowa, in furnishing copy for her advertisement appearing on page 16, writes: "I have two fine flocks of Bourbon Red turkeys that are not related. Also have a fine lot of White Wyandottes for sale cheap, considering the quality, and a few pair of Mammoth Pekin ducks. I guarantee satisfaction to my customers."

—If in the market for Single Comb White Leghorn yearling hens or choice cockerels the advertisement of the Eggland Farm, Mt. Vernon, Iowa, that appears on this page, will be of interest. The Eggland Farm in sending this advertisement write: "Last season we advertised in several of the best papers in the United States, and our cash sales from The Homestead amounted to more than all the other papers put together. This year we are using The Homestead only, as it will sell our entire output."

—Mrs. Geo. Manning, Birmingham, Iowa, whose advertisement offering Single Comb Rhode Island Reds of both sexes and Single Comb Brown Leghorn cockerels for sale appears on this page, in furnishing copy she writes: "I have been a reader for seven years taking great pains in improving my stock each year. At present I have flocks that are producing prize winners to compete with the largest breeders. Satisfaction has been my aim and from the letters I have received from customers I have succeeded."

—The advertisement of L. G. Johnson, Steamboat Rock, Iowa, offering Single Comb Rhode Island Red cockerels for sale, appears on this page. In furnishing copy, Mr. Johnson writes: "Have raised Reds for six years, both from fancy and utility standpoints. Have made some splendid winnings in Iowa's leading shows. This fall I have an exceptional fine lot of farm raised birds to offer that are splendid in type, and can supply the farmer who wants some good husky birds to head his flock or can supply some fine breeders or exhibition birds at reasonable prices."

DUCKS.

White Pekin Ducks and Drakes

DRAKE and hen took first prize at the Oswego, Kansas, poultry show in November, 1912. Score 97-97¼. Write your wants.
JOHN M. HALL - WILLIAMS, IA.

50 ROUEN DUCKS

$3 PER pair, $4 per trio, for next thirty days, 1913 hatch. 1st and 2d drake, 1st and 2d duck Iowa State Fair, 1913. Silver Campine cockerels from best imported stock, $1.50 each. Address
C. & C. T. VAN LINT - PELLA, IOWA

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

FAWN AND WHITE Indian Runner ducks and drakes, $1.00 each; $10.00 per dozen while they last. Write Mrs. Howard Niswander, Kinross, Iowa.

F and W. Indian Runner ducks and **drakes** from great laying strains. Prices reasonable. Write me. Address **J. E. Lewis, Brayton, Iowa**

For Sale **Rouen Ducks.** Also **Forest Trees** at $3.00 per thousand. Write me. Address **JAMES CASSELL, FREMONT, NEB.**

LEGHORNS.

ROSE COMB BROWN LEGHORN COCKERELS

At the Pike Timber Stock Farm
DAVENPORT & MACK, BELMOND, IOWA

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels, also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Fischel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

250 S. C. BROWN LEGHORN cockerels, hens and pullets, 75c and $1 each. Sires score to 93½. Winners for 10 years. Buff Cochin Bantams, 75 cents. Address Mrs. Will Michael, Selma, Iowa.

SINGLE COMB BROWN LEGHORN COCKERELS $1 each while they last. Address E. A. Bergsten, Sperry, Iowa.

SINGLE Comb White Leghorns, 250 ckls. at bargain prices, guaranteed to please. $1 and up. Circular and show record free. W. F. Wallace, Diagonal, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels, $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley Selma, Ia.

S. C. W. Leghorns, Young's strain, unscored cockerels, $1; scored, $2.50 and up; pullets, $1 each. Address Mrs. Wilson McIntyre, Red Oak, Iowa.

LEGHORNS—Rose and Single Comb, Buff, White and Brown, $1.00 each. Doz. $10.00. Progressive Poultry Farm, Hampton, Iowa.

FOR SALE—CHOICE LOT OF S. C. WHITE LEGHORN cockerels, 6 for $5. Mrs. S. J. Philson, Harlan, Ia.

FOR SALE Fine pure bred R. C. Brown Leghorn cockerels, $1 each; $10 per dozen. Mrs. Roy Landis, Weldon, Iowa.

100 S.C.W. Leghorn yearling hens, finest breeding, at $1 each or $10 doz. 100 choice cockerels at $1 each. Eggland Farm, Mt. Vernon, Iowa.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY

Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

S. C. Rhode Island Red Cockerels HIGH-CLASS, farm raised, dark velvety red, heavy-boned fellows that will improve your flock. $1.50 and up. Mention The Homestead.
L. G. Johnson, Box H, Steamboat Rock, Ia.

Single Comb Rhode Island Red Cockerels for sale at $1.00 and $1.50 each; also White Holland toms of good size and pure white at $3.50 each during November. Jesse D. Howarth, Route 2, West Grove, Iowa.

BIG-BONED, deep red, Rose Comb Reds, red eyes, long back, low tail, high scoring, $5 each, good breeders, three for $5, cockerels, pullets, guaranteed. Address Highland Farm, Hedrick, Iowa.

CHOICE Pure-bred Reds (either comb) yearling hens, ckls., pullets, price $1 each. Indian Runner ducks $1.50. Mrs. Laun, Riverdale Farm, Floyd, Ia.

S.C.R.I. Red Cockerels from $1, $1.50 and up; Fawn Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

FOR SALE—R. C. R. I. Red hens, Pullets $1.50 each, $15.00 per doz. Cockerels $2.00 each, $18.00 per doz. Mrs. Charles Belz, Conrad, Iowa.

MARCH and April hatched S. C. Rhode Island Red Cockerels, extra good color. Prices right. Mrs. Frances Strong, Oakland, Iowa.

NINE years breeder R. C. Reds. Cockerels at bargains next 30 days, Tompkins strain, none better. Satitfaction guar. W. H. Patton, Iowa City, Ia.

SINGLE Comb Rhode Island Reds, both sexes; Single Comb Brown Leghorns, cockerels from choice stock. Mrs. Geo. Manning, Birmingham, Ia.

FOR SALE—Rhode Island Reds, both combs. Pullets $1.25 each; yearling hens $1.00 apiece. Address Woodlawn Farm, Sterling, Illinois.

BRAHMAS.

PURE BRED LIGHT BRAHMA COCKERELS for sale at $1.00 each. They are good ones. Mrs. J. M. Dries. Ashton, Ia.

MY HEAVY WEIGHT, Light Brahmas won 14 premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

LIGHT BRAHMA cockerels and pullets, 1st pen $1.50; 2d pen $1; fancy stock. Address
GEO. C. SCHOEFER, HAMPTON, IOWA.

LANGSHANS.

BLANGSHANS, Runner ducks; cockerels, hens and pullets, $1 to $3. Satisfaction guaranteed. Circular free. Bert A. Randell, Mt. Zion, Iowa.

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

MISCELLANEOUS.

Smith's Big Removal Sale

AS I am going to move to Minnesota December 1, will sell my entire flock of Bronze turkeys, and S. L. Wyandottes, at big reduction if taken at once. These are all high-class, well-marked birds.
J. D. SMITH - - MONTEZUMA, IOWA

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96¾ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog.
E. & J. W. Trettin, Grafton, Iowa

PRIVATE scoring done at reasonable rates. 30 years' experience. Also breed Partridge Rocks, R. C. White Leghorns and Rhode Island Reds. Stock for sale. L. G. Housholder, Bonaparte, Ia.

BARGAINS in all varieties Wyandottes, Orpingtons, Minorcas, Reds, Rocks, ducks, geese, turkeys. Progressive Poultry Farm, Bx. 10, Hampton, Ia.

MILK HOUSE CONVENIENCES.

"Our new milk house is the pride of our farm. Come, let me show it to you," said an enthusiastic farmer recently. Truly his milk house is one to be proud of and one to inspire in any man who might see it a desire for one of the same kind on his own farm.

The location had many things to commend it. First, it is near the farm house. That makes it convenient for the ladies. Women have done, women are doing, and women will continue to do the greater part of the milk house work on our farms. For the milk house to be near the home saves steps. Another very big advantage was worked out on the particular farm mentioned. Hot water was piped from the kitchen range by short underground pipes to the milk house and furnished hot water for the separator and for cleansing all the dairy utensils.

That particular milk house had a gasoline engine also. Needless to say the farm separator was hitched to that engine and saved time and labor for the farm boys. Another feature, and not one so commonly seen, was a churn run by the same gas power. Quite a large amount of butter was made on the farm and to have the churn operated by mechanical power is an important factor in economical management.

The building had, of course, a cement floor and plastered walls. The cement floor provided for easy cleaning and made possible thorough sanitation. The same was true of the walls.

Two things might be added to that milk house that would increase its convenience and serviceability. One would be a built-in tank to hold the cans of milk and cream. This could have been very easily constructed at the time the floor was laid and would doubtless have proven a source of convenience for it would not have become leaky and would have been clean and serviceable at all times. The other article of equipment that might have well been added is a washing sink. With hot and cold water, with power, with a churn equipped with attachments for working the butter, a real dairy washing sink would have made the little building a first-class farm milk house indeed.

PLAN FOR FALL CALVING.

A great many farmers and dairymen have just passed through a period of very strenuous field activities and of heavy milking with the dairy herd. Now, when field work is very lax comes a period of light milking in the barn. In fact on some farms the term idleness might well be used. A far more even balance in the year's work can be brought about if the cows are bred to calve in the fall. The logic of this is very plain to most men. As the work of caring for the crops draws to a close, the busy time in the barn begins. The cows will be coming fresh at that time. There will be plenty of time for giving them any needed attention, and for looking after the young calves.

We are fond of referring to the financial side of all dairy propositions. Records have shown that under the system of having cows calve in the fall 15 or 20 per cent more milk is secured during the year. Then invariably the price received during the winter is higher. Taken altogether the great yield and higher price makes an inducement in dollars that is convincing to any man.

Milk and milk products are more easily cared for during winter, as less artificial refrigeration is needed.

Winter dairying helps to solve the hired-man problem. It makes the working hours of summer shorter and more regular. It provides steady work during the winter, thus keeping some of the good men from drifting to the cities.

Now is the time to plan definitely for winter dairying to begin in the fall of 1914. The cows must be bred for calving in fall or early winter. Several noticeable purchases of bulls have been made recently for use in adopting the system of winter dairying. Winter dairying will result in greater profit to the farmers.

THE BULL AND BETTER DAIRYMEN.

To the Editor of The Homestead:

It has been my good fortune to have assisted quite a number of men who milk grade herds to purchase pure-bred dairy bulls. One fact which I have noted, and which has been but little commented upon, is that as soon as a man has secured a pure-bred sire he becomes a better dairyman. The first bull I ever purchased for a farmer made a striking change in the dairy business as it was conducted by that man. When I first visited his farm he was rather indifferent, but yielded to persuasion, and instructed me to buy a bull for him. Fortunately at a point not far distant I located a very desirable youngster, with an excellent kind of a sire and the right kind of a deep-bodied, persistent dam. The price was reasonable and the youngster was shipped to his new owner. When I visited the farm two months later the contrast was very striking. A new tester complete had been purchased and the production of the cows recorded carefully. There was more regularity in feeding and milking. Above all and back of all there was a very keen interest manifested on the part of the owner and his sons. With cheap foods and a good market dairying would be profitable. For them to own a real classy pure-bred dairy bull made an immense improvement in their dairy operations.

In the same locality I inquired for other dairymen. One particular man was named with the comment, "He bought a good bull two or three years ago; now he is becoming a first-rate dairyman." That statement told a big story as a visit to the farm verified. The bull referred to was a magnificent specimen, the best of his breed that I ever saw in the entire state. There was a bunch of mighty good heifers by him in the pasture. The owner really was becoming a dairyman. He said, "I have received a blue-print plan from the U. S. Dairy Division for a barn. I have ordered a testing outfit which I am expecting every day and it is my intention to keep careful records of all my cows." In this case no doubt the bull was always a source of inspiration to this man, helping him in his decision to improve his herd and his farm. Further than that the bull led him to see the possibility of grading up his herd and the increased profit and satisfaction resulting therefrom.

Pure-bred herds are now common. As a result prices on bulls of sufficient individual merit and excellency of breeding to improve the common herds are probably lower than ever before. Every man who desires to grade up his herd may well begin at once to do so. From the standpoint of grading up, a high-class sire is more than half the herd. The grades are practically stationary in their total production. A herd with an average production of 200 pounds of butter fat per year may be taken as zero with regard to production. To place with such a herd a sire whose ancestry is 500 gives to that herd possibility of great improvement and makes a high-class bull far more than half the herd. It is good busines and good sense to use the best sire possible.

H. E. McCartney.

A CHEAP ICE HOUSE.

To the Editor of The Homestead:

If properly constructed a cheap house for storing ice will be found as effective as a more costly one. A very efficient ice house may be built with the following material: In building an ice house twenty feet long, sixteen feet wide and ten feet high it will require 342 feet of 2x6 studding; twelve 2x4 rafters twelve feet long; 576 feet matched boards; 720 feet boards for lining; 480 feet roofing boards; 3,000 shingles or 480 feet prepared roofing; one batten door; hinges and nails; twenty-five wagon loads of sawdust or other non-conducting material.

There are some general principles which should be observed in the construction and use of any kind of ice houses. First, there must be perfect drainage with no admission of air beneath. Proper ventilation and dryness above are absolutely necessary with sufficient packing material above, below and around the ice by which the necessary temperature may be obtained to preserve the ice and prevent wasting. Sawdust is one of the best materials to use for packing, but if it is not to be had, cut straw, oats or wheat chaff may be substituted.

The soil upon which to build an ice house should be of a dry, sandy or gravelly nature and the foundation should be dug two feet deep. If the soil is of clay the pit should be dug two feet deeper and filled with sand or gravel. If great care is not taken in building the foundation to prevent the entrance of air there will be a great loss of ice after the weather becomes warm. Sills of 2x6 inch plank are laid across this foundation and upon these are nailed studs of the same size ten feet in length, placed four feet apart around which are nailed horizontally the matched lumber. For convenience in filling a door frame may be built at each end. Plates of 2x6 inch timber are spiked onto the studs when the outside boarding reaches the top. A quarter pitch is sufficient when the rafters of 2x4 scantling are nailed on the frame over the studs. The roof must be made waterproof, but should be made with eaves extending out some distance from the walls to protect them as much as possible from the heat of the sun in summer. The inside of the house should be lined with plank nailed horizontally and the space between the walls should be filled with sawdust or other packing which should be at least two feet deep at the top and a foot thick at the bottom and sides. A ventilator should be placed at the top of the building allowing a current of air to pass continuously over the upper packing, thereby removing the collected vapor. The space between the rafters and above the plates will be sufficient to allow this.

In cutting and storing ice in such a

Only $2 Down
One Year to Pay!
$24 Buys the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Skims 96 qts. per hour. Made also in four larger sizes up to 51-2 shown here.
30 Days' Free Trial Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half. 121
ALBAUGH-DOVER CO.
2262 Marshall Blvd. CHICAGO
No. 6½

FIFTH ANNUAL SALE of HIGH-GRADE GUERNSEY CATTLE
At Fairview Farm, Des Moines, Iowa, November 20, 1913
30 HEAD HIGH-GRADE COWS, some fresh by date of sale, others fresh between then and early winter. 30 head of one and two-year-old heifers, some fresh soon. 10 head of registered bulls from three months old to serviceable age. 15 head of fine imported milking goats. Individual tubercular certificates furnished with each animal on day of sale. Col. Wm. Piper, auctioneer, Villisca, Iowa.
WILCOX & STUBBS, PROPS. - 1401 GRAND AVENUE - DES MOINES, IOWA

HOLSTEIN-FRIESIAN CATTLE.
HIGH-GRADE HOLSTEIN COWS AND HEIFERS
I AM offering a splendid lot of high grade cows and heifers for sale, all bred to noted bulls and fresh soon. These are from two to five years old. Write at once or come and see me. Address
C. E. VEAK - - - - - - ESSEX, IOWA.

Pure-bred Registered
HOLSTEIN CATTLE
If your cows produce only about 4,000 pounds of milk per year and 160 pounds of fat they are practically worthless. 350 pounds of fat per cow per year should be your minimum requirement.
No matter how poor your present herd is, you can easily raise it to this standard in a few years by the intelligent use of a well selected pure-bred Holstein-Friesian bull.
Send for FREE Illustrated Descriptive Booklets
Holstein-Friesian Association
F. L. Houghton, Sec'y., Box 113, Brattleboro, Vt.

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

30 BULLS
FROM one month to fifteen months of age. Most of them by our great herd bulls. Many of them out of record cows. A choice lot of well-bred calves and good individuals. Send for price list. Also a few cows and heifers. All stock registered. No grades.
WOODLAWN FARM - STERLING, ILL.

A HOLSTEIN HERD AT BARGAIN PRICE
I WILL sell my entire herd of Holstein-Friesians nine females of breeding ages, five bulls and two young calves. They are strictly good, from the best lines of breeding, and all recorded or eligible to record. Will sell singly or in lots to suit purchaser. A low price for quick sale. Come and see them.
C. W. Barclay, Madrid, Boone Co., Iowa.

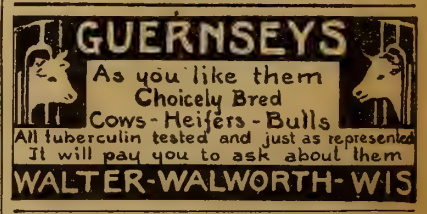
HOLSTEIN COWS
WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS
THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

BRED FOR PRODUCTION HOLSTEINS
Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

GUERNSEY CATTLE.

GUERNSEY bull calves (unregistered) from 6 to 10 months old. All from high-producing dams, Sired by Imported Shamrock of Day.



GRADE GUERNSEYS and HOLSTEINS
FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

FOR SALE Two Guernsey bulls, thirteen and four months old. M. T. Love, Garner, Iowa.

JERSEY CATTLE

The Jersey
The Jersey gives richer milk and more butter than any other known breed, at a lower keeping cost. She does it continuously and persistently. Her milk and butter bring better prices than the product of any other dairy breed. That's where quality *does* count. Jersey facts free. Write now. We have no cows for sale.
AMERICAN JERSEY CATTLE CLUB
324 W. 23d Street, New York

Redhead's Jersey Bulls
I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

way that it may be preserved during the hottest weather some general directions must be observed. Ice should be cut with a saw into blocks of regular size so that they may be packed evenly without leaving space between them. It is preferable that ice which is to be stored should be at least six inches in thickness, but if cut in the manner described it will keep perfectly if not more than three inches in thickness. Ice should be cut in cold, freezing weather and if when packing in the ice house a bucket of water is thrown over each layer to fill the space between the blocks and exclude the air it will keep much better. The doors of the house should be opened a few days before filling to allow the ground beneath to freeze. As the ice is packed boards should be placed inside the doors. After reaching the top sawdust may be packed tightly into the space between the boards and the doors closed. The packing should be carefully replaced each time in the summer after it is disturbed in getting the ice out. J. T. McCoy.

NEWS OF THE SALE RING

Nelson & Sons' Short-horn and Poland Sale.

It seems as though the weather man has a special grudge against S. A. Nelson & Sons, Malcolm, Neb., for he has for several years handed them the worst kind of weather for their sales. It was quite stormy Friday, November 7th, the wind blowing a perfect gale, bringing with it fitful gusts of rain and sleet, yet they had a splendid gathering from several states and made a very successful sale. The Short-horn offering was a good one, and was appreciated by the buyers. There were some bargains, as there is in every auction, and as usual the better things did not sell as high according to their merit as did the more common ones. Nelson & Sons are to be complimented on the good offering they put up, and on the condition in which they had their cattle. Few men have been a stronger help to the Short-horn industry of the West than has been the senior member of this firm. Few of these men that he has so ably assisted were in evidence at his sale, but those that were on hand were men, capable of judging, and that wanted cattle. Wm. Fagan & Sons, Abbott, Neb., were among the best buyers of the sale, as they have been at a number of sales the past couple of years. They secured several head and got good values. R. E. Baldwin, Osceola, Iowa, was a good bidder and got several of the best ones. Jos. Rouselle & Son, Seward, Neb., paid the top of the sale, $330, for the choice January roan bull, Lancaster Goods. He is a nicely bred Cruickshank Duchess of Gloster and one of the nicest specimens of the breed that we have seen sell in some time. He goes to head a good herd. Wm. Steffens, Malcolm, Neb., was a good bidder and one of the best buyers of the sale. Col. Z. S. Branson did the selling and brought to a successful finish one of the best sales of the season and from a discouraging day. Those selling for $100 or more are listed.

COWS.

Orange Blossom 2d, calved April 1909; Wm. Fagan & Sons, Abbott, Neb. $180
Orange Blossom 3d, calved Dec. 1911; Wm. Fagan & Sons 135
Victoria Beauty 4th, calved May, 1912; Wm. Fagan & Sons 200
Missie of Elkcreek, calved Jan. 1912; Wm. Fagan & Sons 175
Rosabella 2d, Jan. 1911, and c. c.; Geo. Allen & Sons, Lexington, Neb. 150
Lady Sultan, calved June, 1909 and b. c.; Wm. Fagan & Sons 170
Roan Rose 2d, calved July, 1911, and c. c.; Wm. Steffens, Malcolm, Neb. 150
Dora Phyllis, calved June, 1911; R. E. Baldwin, Osceola, Iowa 150
Hillsdale Beauty, calved Sept. 1912; M. B. Palmer, Germantown, Neb. 150
Rose, calved March, 1911, and c. c.; M. B. Palmer 170
Elk Creek's Sultan, calved March, 1912; Geo. Allen & Sons 200
Good Lad's Lady, calved Sept. 1911, and b. c.; Wm. Steffens 170
Grace Hanen 2d, calved Sept. 1907, and b. c.; Ad. Cunningham, Broken Bow, Neb. 160
Lily, calved Sept. 1908, and c. c.; R. E. Baldwin 165
Hazen C., calved Aug. 1912; Rapp Bros., St. Edward, Neb. 105
Hampton's Beauty, calved Sept. 1906; R. E. Baldwin 195
Rose of Elkcreek, calved March, 1910; Rapp Bros. 105
Albina 4th, calved June 1906; Wm. Steffens 140
Lady Princess, calved Sept. 1910; Wm. Steffens 110
White Gem, calved June, 1910 and c. c.; Wm. Steffens 150
Royal Sultan's Lass, calved March, 1912; Wm. Fagan & Sons 250
Princes Aylesby 3d, calved April, 1907; M. B. Palmer 125
Mary Bell, calved June, 1911, and b. c.; Wm. Steffens 160
Princess, calved March, 1912; Wm. Fagan & Sons 100
Mae, calved July, 1906, and c. c.; R. E. Baldwin 150
Cherry, calved May, 1911; Wm. Steffens 120
Alice Belle, calved 1908; Wm. Fagan & Sons 100
Viola, calved March, 1912; Rapp Bros. 100
Young Lady, calved June, 1907, and c. c.; Wm. Steffens 160

BULLS.

Custer Lad, calved Dec. 1912; Drake & Thompson, Friend, Neb. 205
Lancaster Goods, calved Jan. 1913; Jos. Rouselle & Son, Seward, Neb. 330
Hillsdale Goods, calved Sept. 1912; Wm. Ogilvie, Beaver Crossing, Neb. 250
Favorite Goods' Choice, calved June, 1912; M. B. Palmer 245
White Augusta, calved April, 1912; Johnson Bros., Cheney, Neb. 130
Master Sultan, calved Sept., 1912; John Bauer, Emerald, Neb. 165

SUMMARY.

36 females ..$4,940; average...$137.22
8 bulls .... 1,495; average... 187.10
44 head ..... 6,435; average... 146.27

Immediately following the sale of Short-horns, twenty-three Poland China spring boars were offered. These boars met with a ready demand, making an average of $33 a head. They were sold to I. W. Jacoby, Havelock, Neb.; I Truber, Seward, Neb.; W. R. Devine, York, Neb.; J. E. Cooney, Lyons, Neb.; Frank Davis & Sons, Holbrok, Neb.; Ernest Horneung, Raymond, Neb.; Lee Loder, Waverly; C. L. Walin, Ceresco; A. H. Miller, Ceresco; L. E. Trued, Ceresco; P. W. Pierson, Ceresco; A. J. Muntz, Garrison, Neb.; P. O. Oswold, Wisner, Neb.; F. A. Stocker, Dunbar, Neb.; Lewis Horneung, Raymond, Neb.; J. R. Helms, Lincoln, Neb., A. Anderson, Waverly, Neb.; John Walin, Ceresco, Neb.; Oscar Dinert, Emerald, Neb.; and J. A. Brodd, Ceresco, Neb.

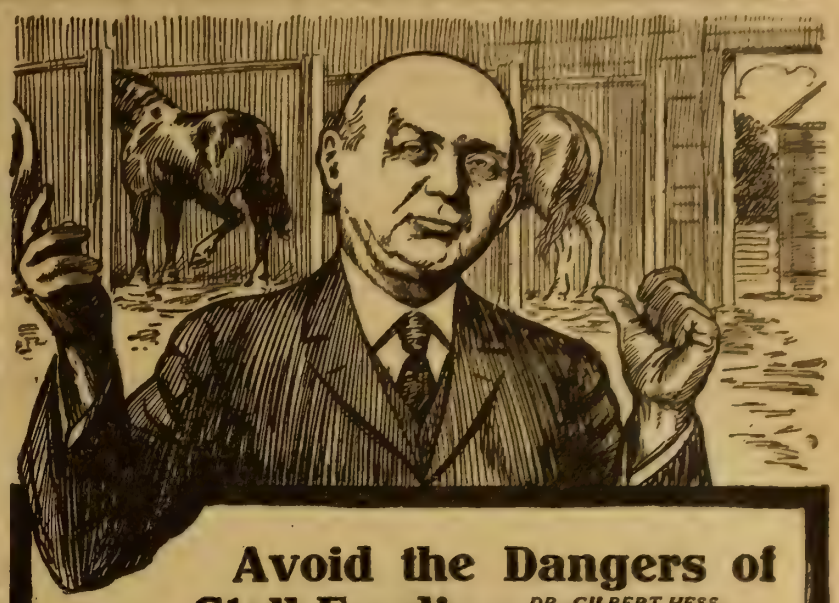
The DeKalb Hampshire Sale.

The sale of H. D. DeKalb, at Council Bluffs, Iowa, on November 4th, was well attended, and he sold fifty-one head of boars at an average of $45.22. Top of the sale was the splendid young boar, DeKalb's King 50th, and he was purchased by Wm. Pamp, Benson, Neb., at $180. There were just a few too many boars in the sale to make a high average, and those who were present got some excellent bargains. Col. Kraschel cried the sale, assisted by Cols. Manifold and Gooding. Below we list those selling for $25 and over:

01. Geo. Annan, Clarinda, Ia.....$130.00
1. B. F. Blind, Blind Village, Ind. 100.00
2. Aug. Schoening, Dumfries, Ia. 40.00
5. Peter Hopley & Son, Lewis, Iowa 37.50
8. H. H. Rock, Avoca, Ia..... 65.00
9. Louis Roenfeldt, Glenwood, Iowa 30.00
10. W. E. Trowbridge, Logan, Iowa 25.00
13. S. P. Stranathan, Glenwood, Iowa 30.00
14. Wm. Pamp, Benson, Neb.... 180.00
15. C. P. Paulson, Nora, Neb..... 65.00
16. N. A. Rank, Niota, Ill..... 25.00
22. Claud Horn, Troy Kan..... 50.00
23. Wm. Prim, Elk Point, S. D... 32.00
25. F. H. Schultz, Trainor, Ia.... 37.00
31. Peter Hapley & Son 25.00
34. Rudolph Schoening, Dumfries, Iowa 31.00
38. C. P. Paulson 66.00
39. J. H. George, Corning, Ia.... 41.00
40. A. Ouren, Trainor, Ia..... 31.00
42. Geo. Moline, Charter Oak, Ia. 26.00
43. Jas. Thompson, Fairfax, Mo.. 51.00
46. Roy E. Fisher, Winside, Neb. 26.00
47. W. J. Armstrong, Burlington, Kan. 51.00
50. E. Stuppell, Council Bluffs, Ia. 35.00
49. Heiden & Kroft, Denison, Ia. 26.00
53. Joe Dempsey, Logan, Ia..... 25.00
54. Jas. Thompson 26.00
53. Jas Thompson 51.00
55. Jas Thompson 40.00
56. Roy E. Fisher 44.00
58. Jas Thompson 42.00
51. F. O. Peterson, Galva, Ia.... 25.00
63. Wm. Schwarte, Earling, Ia... 27.00
65. S. C. Schumaker, Cedar Lake Iowa 26.00
66. H. G. Albers, Earling, Iowa.. 25.00

Chas. W. Phillips' Poland China Sale.

The record fall sale of Poland Chinas was held by Chas. W. Phillips, New Sharon, Iowa, on November 4th. Mr. Phillips has been constantly improving his herd from year to year until he has one of the good herds of big-type Poland Chinas in the corn belt and his herd is looked upon as one of the leading sources from which to obtain boars and sows of breed-improving character. No. 7, a February pig by the noted boar Long King's Superior, topped the sale at $200 going to Elijah Story, Kewanee, Ill. J. W. Callahan, Seaton, Ill., secured a great prospect in No. 11 at $150 as did J. E. Mendenhal, Beacon, Iowa, in No. 12, a litter mate at the same price. J. J. Fogaty, Central City, Iowa, secured a good boar in No. 6, a fall yearling boar consigned by J. T. Malloy, Albian, Iowa, at $170. J. L. Guttshell & Sons, Sheffield, Iowa, secured No. 8, 9 and 10, their gilts litter mates to No. 7, the top boar at $82.50 each. The offering was well grown out and was of superior merit. It was a credit to Charles



Avoid the Dangers of Stall Feeding

DR. GILBERT HESS, Doctor of Veterinary Science, Doctor of Medicine

I want to warn you in time that stock taken off pasture and put on dry feed are pretty apt to get out of fix, because corn, grain, hay and fodder do not contain the laxatives so abundantly supplied in grass.

Some of your animals are sure to become constipated, others off feed, rough in the hair, with paleness of the eyes, lips and nostrils, or the legs may stock or dropsical swellings of the abdomen appear, or the urine may become yellow and thick; but the common ailment of all, especially among hogs, is worms, worms.

Dr. Hess Stock Tonic

Makes Stock Healthy. Expels Worms.

Being both a doctor of medicine and a veterinary scientist, I formulated Dr Hess Stock Tonic to correct these evils. It contains a laxative substitute for grass, diuretics to remove dropsical swellings, tonics to improve the appetite and increase digestion and vermifuges to expel worms.

So sure am I that Dr. Hess Stock Tonic will put your animals in a thriving condition, the ailing ones healthy and expel the worms, that I have authorized your nearest dealer to supply you with enough for your stock, and if it does not do what I claim, return the empty packages and get your money back.

Right now is the time to feed Dr. Hess Stock Tonic, because it's the cow in the pink of condition that fills the milk pail, the steer with an appetite that lays on fat, the horse that digests its dinner that pulls on the bit, the hog that is well and worm-free that gets to be a 200-pounder in six months.

Dr. Hess Stock Tonic is never sold by peddlers—only reliable dealers; I save you peddler's salary and expenses, as these prices prove: 25-lb. pail $1.60; 100-lb. sack $5.00. Smaller packages as low as 50c (except in Canada, the far West and the South).

DR. HESS & CLARK, Ashland, Ohio

Dr. Hess Poultry Pan-a-ce-a
A splendid poultry tonic that shortens the moulting period. It gives the moulting hen vitality to force out the old quills, grow new feathers and get back on the job laying eggs all winter. It tones up the dormant egg organs and makes hens lay. Also helps chicks grow. Economical to use—a penny's worth is enough for 30 fowl per day. 1½ lbs. 25c; 5 lbs. 60c; 25-lb. pail $2.50. Except in Canada and the far West. Guaranteed.

Dr. Hess Instant Louse Killer
Kills Lice on poultry and all farm stock. Dust the hens and chicks with it, sprinkle it on the roosts, in the cracks or keep it in the dust baths, the hens will distribute it. Also destroys bugs on cucumber, squash and melon vines, cabbage worms, etc., slugs on rose bushes, etc. Comes in handy sifting-top cans, 1 lb. 25c, 3 lbs. 60c. Except in Canada and the far West. I guarantee it.

Now! A 6 H-P Engine $99.35

LET me send you an engine to prove that you can own a WITTE cheaper and easier than you can do without one. Let the engine earn its cost, while you pay for it.

WITTE ENGINES

DIRECT FROM FACTORY TO USER!

Look at These Prices!

2 H-P, $39.45; 4 H-P, $75.50; 6 H-P, $99.35; 8 H-P, $149.90; 11 H-P, $218.90; 20 H-P, $389.50.

Other Sizes Proportionally Low.

Get my latest and best offer—all complete with my NEW BOOK, the finest in the engine business. Write me before you make arrangements to try any engine.

ED. H. WITTE, Desk D, Witte Iron Works Co.
1565 Oakland Avenue, Kansas City, Missouri.

No Need Now to pay double price for a good engine, or to take a poor, or doubtful one at any price. No extra cost to be sure.

For 27 years (longer than any other) the WITTE has proved its high-quality value at all kinds of work, in all parts of the world. It is today better than ever, while the price is lower. My manufacturing advantages make this possible. I am simply sharing my advantages with engine buyers. Let me write you more about it and post you on engine buying.

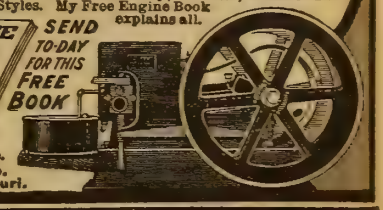
Kerosene, Gasoline, Distillate, Gas

60 Days Free Trial. 5-Year Guaranty

Made in regular, standard sizes of 1½, 2, 4, 6, 8, 11, 12, 15, 20, 25, 30 and 40 H-P. Stationary, Portable, Skidded and Sawrig Styles. My Free Engine Book explains all.

WITTE How to JUDGE ENGINES and pick the Winner

SEND TO-DAY FOR THIS FREE BOOK



COW BOY SURE HEATER for STOCK TANKS

DON'T BURN CORN

this Winter to heat the ice cold water for your stock. Burn coal, cobs or wood in a

COW BOY TANK HEATER

Quickest Heater; Strongest Draft; ashes removed without disturbing the fire; keeps fire 24 hours; Absolutely Safe; pays for itself in 2 months with 4 cows; **SELF SINKING;** adapted to large or small tanks. Most reliable, practical, convenient and efficient Tank Heater manufactured.

OUR DISC JOINTERS for Plows bury all corn stalks, manure, etc., deep in the furrow where it will make fertilizer and not interfere with preparing best seed bed or best cultivation of crop. Consult your dealer at once. Write for illustrated, descriptive folders.

THE WILLS MANUFACTURING CO.
30 Seventh St. Mendota, Ill.

BUY FUR NOW

Because you can get **REEL QUALITY** fur at wholesale prices. We are the third largest receivers in the world of raw fur shipments direct from trappers. Send 5c for our catalog—it brings the World's best styles to you at reasonable prices. HERMAN REEL CO., MILWAUKEE, WIS., U. S. A.
P. S.—Trappers! Write for our Price List and Shipping Tags.

CLOTHCRAFT

The photograph

Guaranteed Clothes

IF we could show you how well Clothcraft Clothes really look we know you would like them. Here are two pictures of the same suit—one drawn by an artist, one a photograph. Those are the only ways to picture them.

But you want to know whether we can fit *you*. We have had 67 years' experience in fitting clothes to men, so we say "yes." We can't prove it to you, on paper—but we *can* prove it if you'll go to a Clothcraft Store and try on a suit of your size. If it doesn't fit don't buy it; Clothcraft Clothes are sold on a satisfaction-to-you basis. In fact, the whole truth and force of Clothcraft quality and value are realized only by men who wear Clothcraft.

THE JOSEPH & FEISS CO.

Founded 1846—Oldest American Manufacturers of Men's Clothes

628 St. Clair Avenue, N. W. Cleveland, Sixth City

The drawing

CLOTHCRAFT Clothes are all-wool, shape-retaining, long-wearing. They are high-grade in tailoring and trimmings. All these things we positively guarantee. They sell at $10 to $25—no other line at those prices is so guaranteed.

REG. U.S. PAT. OFF.

WRITE us for an introduction to the nearest Clothcraft Store. We'll also send the new Style Book and tell you about *Clothcraft Blue Serge Special No. 4130*—the best all-round suit we can make (and an unusual value) at $18.50.

LANDS AND HOMES

Those seeking reliable and unbiased information regarding any part of

California

its Agricultural, Horticultural and Industrial resources, will be cheerfully supplied with all possible information by this organization, which is maintained only for the purpose of promoting the development of the State. It has nothing for sale and is not connected with any project, realty or otherwise.

Information, Literature and Maps Free.

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OUT THEY GO $2 AN ACRE DOWN

And then you can pay for one of our 160 or 320-acre farms out of the proceeds of one-half of the crop raised yearly until the farm is paid for. Come on out with the down payment and select your land—20,000 acres to select from. Prices $15 to $30 an acre and good land. Where can you beat these terms for such rich land? Write for facts or come right to our office now. Wm. H. Brown Co., Mandan, Morton Co., North Dakota, or Mott, Hettinger Co., North Dakota, or 5 N. LaSalle St., Chicago. Get in while land is cheap.

Land Opportunity

is for the man who carefully investigates before he buys. There are many large and small tracts of good land along the Union Pacific System Lines. Your land opportunity is among them. I will give you free authentic information concerning any of these tracts if you will write to me.

It will pay you to investigate before you move.

R. A. SMITH,

Colonization and Industrial Agent, Union Pacific Railroad Co., Room 1188, Union Pacific Building.

OMAHA, NEBRASKA.

FOR SALE Rusk Co., Wis., cutover hardwood lands; wholesale prices; any sized tract, fertile clay silt loam soil, in dairy and clover belt; good markets, schools, churches, easy terms. Write for map and information. Arpin Hardwood Lumber Co., Grand Rapids, Wisconsin

RANCH OF 930 ACRES

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Phillips as a breeder and fitter. W. H. Cooper did a most commendable job of auctioneering and deserves much credit for the success of the sale. A list of those selling at $30 and above is appended:

1.	A. B. Henry, Beacon, Iowa...	$125.00
2.	Al Johnson, Lynnville, Iowa.	135.00
3.	J. F. Beasley, Smithshire, Ill.	75.00
4.	J. R. Hoover, Oskaloosa, Ia..	62.50
5.	W. A. Johnson, Oskaloosa, Ia.	52.50
6.	J. J. Fogaty, Central City, Iowa	170.00
7.	Elijah Story, Kewanee, Ill...	200.00
8.	J. L. Guttshell & Son, Sheffield, Iowa	82.50
9.	J. L. Guttshell & Son,	82.50
11.	J. W. Callahan, Seaton, Ill...	150.00
12.	J. E. Mendenhal, Beacon, Ia..	150.00
13.	J. B. Grinnell, Grinnell, Ia...	45.00
14.	Hiram Morrow, Barnes City, Iowa	32.50
15.	John Paridise, Barnes City, Iowa	45.00
16.	Dick Gossline, New Sharon, Iowa	47.50
17.	E. Brady, Tampico, Ill.	62.50
18.	Lou Aker, Taylor, Iowa.	42.50
19.	J. A. Bailey, Marshalltown, Iowa	47.50
20.	F. Monger, New Shoran, Ia..	45.00
21.	H. H. Stamn, Aurelia, Ia.	60.00
22.	W. E. Phillips, New Sharon, Iowa	32.50
23.	B. F. Stonehacker, New Sharon, Iowa	40.00
25.	Wright Bros., Rose Hill, Ia..	42.50
26.	J. R. Wallace, Williamsburg, Iowa	37.50
27.	Thos. Lemon, New Sharon, Ia.	45.00
28.	I. B. Heisel, Grinnell, Ia.	50.00
29.	E. D. Corkin, New Sharon, Ia.	37.50
30.	Willis Gunn, Barnes City, Ia.	35.00
32.	J. H. Prine, Oskaloosa, Ia.	40.00
33.	R. J. Cox, Grinnell, Ia.	35.00
34.	May & Hairgrove, Jacksonville, Il.	37.50
35.	Ray Welton, Wright, Ia.	35.00
36.	J. O. Bailey	47.50
38.	W. A. Johnson	37.50
39.	W. E. Phillips	32.50
40.	Matt Walker, New Sharon, Ia	32.50
42.	B. F. Stonehocker	40.00
	Also sow, W. K. Neil, New Sharon, Iowa	75.00

Forty-one head sold for $2,670.50; average 65.15.

The L. B. Williams Sale.

The sale of L. B. Williams & Son, at Sciola, Iowa, on November 6th, made an average of $31 on forty head. The offering was in nice condition and should have brought more money. The Atlantic Northern & Southern train was ditched this side of Atlantic, and the buyers from the north were not able to get down and this militated against any high average, and those that got there got some splendid bargains. The top of the sale was a spring boar, No. 8 of the catalog, and he was bought by W. J. Diller, McPherson, Iowa, at $51. Col. Harve Duncan cried the sale, assisted by Col. L. R. Hamilton, of Missouri. Below we list those selling for $25 and above:

1.	H. E. Heath, Massena, Iowa..	$39.00
2.	C. A. Miller, Mt. Etna, Iowa..	37.00
3.	Chas. Quist, Stanton, Iowa....	39.00
4.	Oscar Johnson, Mallin, Iowa..	29.50
7.	Oscar Johnson	29.50
6.	Oscar Johnson	29.50
5.	H. J. Chickering, Villisca, Ia.	35.00
8.	W. J. Detler, McPherson, Ia..	51.00
9.	F. J. Nelson, Stanton, Iowa...	31.00
10.	John Eblen, Massena, Iowa...	27.50
11.	Aug. A. Johnson, Stanton, Ia..	27.00
16.	Archie Ellis, Sciola, Iowa....	31.00
23.	J. W. Holdren, Villisca, Iowa.	32.00
24.	J. H. Krauth, Massena, Iowa.	36.00
25.	H. E. Heath	26.00
26.	Oscar Johnson	42.00
21.	H. E. Heath	26.00
22.	H. E. Heath	26.00
27.	A. Z. Scott, Massena, Iowa....	32.00
28.	J. H. Kraut	37.00
29.	F. O. Danborn, Stanton, Iowa	26.00
36.	H. E. Burgus, Osceola, Iowa..	32.00
37.	J. H. Krauth	35.00
40.	E. E. Hastings, Massena, Iowa	35.00
42.	O. D. Lovig, Nodaway, Iowa..	25.00
41.	G. A. Halbert, Elliott, Iowa..	34.00
43.	J. H. Sandusky, Villisca, Iowa	25.00
50.	H. E. Burgus	45.00
31.	J. H. Krauth	37.00

Prettymans' Poland China Sale.

Obadiah Prettyman & Son, Fairfax, Mo., held a very successful sale of big-type Poland China boars and gilts on November 3d selling forty-eight head at a general average of $31.50. This was their first public sale and neighbors who had bought breeding stock of these gentlemen before were the strongest supporters at the sale as they had had such good success with former purchases. The top of the sale was $42.50, three boars selling for that amount. This shows the uniformity of Prettyman & Sons' offering. Col. H. S. Duncan did the selling in his usual satisfactory manner. Following is a list of sales over $25:

1.	J. P. Mackintosh, Tarkio, Mo..	$42.50
2.	John Bradfield, Fairfax, Mo....	37.00
3.	John Bradfield	37.00
4.	J. O. James, Braddyville, Iowa	37.00
5.	Rankin Farms, Tarkio, Mo....	32.00
6.	Yuba New, Fairfax, Mo.	42.50
7.	J. P. Mackintosh	42.50
8.	Rankin Farms	32.00
9.	J. O. James	37.00
10.	A. D. Fellows, Fairfax, Mo...	40.00
11.	J. O. James	37.00
12.	J. F. Smith, Fairfax, Mo.	36.00
13.	Yuba New	45.00
14.	Harman Volman, Corning, Mo	34.00
15.	Edmond Roseline, Corning, Mo.	34.00
16.	Edmond Roseline	34.00
17.	J. P. Miles, Fairfax, Mo.	36.00
20.	E. P. Taylor, Fairfax, Mo.	29.00
21.	J. O. James	26.00
22.	E. P. Taylor	29.00
23.	E. P. Taylor	29.00
24.	Clyde Wright, Skidmore, Mo.	30.00
25.	Ira J. Whiteford, Fairfax, Mo.	36.00
29.	Earl Whiteford, Fairfax, Mo.	32.50
31.	E. P. Taylor	29.00
32.	Harman Volman	32.00
34.	Harman Volman	34.00
35.	R. Gutridge, Fairfax, Mo.	37.50
36.	Geo. Prettyman, Fairfax, Mo.	35.00
37.	Walter White, Fairfax, Mo....	27.50
39.	Geo Prettyman	40.00
48.	W. H. Hineman, Fairfax, Mo.	41.00
49.	Geo. Prettyman	42.00
50.	Walter White	43.00

The H. O. Williamson Sale.

One of the best Poland China sales held this fall was that of H. O. Williamson, at Herman, Neb., on November 5th, when he sold fifty head of boars and sows at an average og $45.73. Sixteen boars in his sale made an average of $49.56. The top of the sale was Baird's Maid, a Big Columbus sow with a litter at side and she went to Jean Burdick, Herman, Neb., at $116. His offering was a cracking good one from beginning to end and was well appreciated by those who attended the sale. Col. Alvab Manifold cried the sale and did good work, and was assisted in the ring by Cols. Russell and Marsh. Below we list those selling for $30 and above:

	Defender Look, Iver S. Johnson, Stanton, Neb.	$ 70.00
1.	Tom Cushman, Herman, Neb.	46.00
2.	Jean Burdick, Herman, Neb..	60.00
3.	Chas. Laughlin, Herman, Neb.	65.00
4.	Jean Burdick	48.00
5.	H. C. Weddle, Craig, Neb....	50.00
6.	Jean Burdick	116.00
7.	Jean Burdick	42.00
8.	W. P. Cowan, Wheaton, Ill...	102.50
9.	W. E. Willey, Steele City, Neb.	50.00
10.	Fred Hurrell, Craig, Neb....	42.00
11.	Henry Dorr, Remsen, Ia....	47.00
12.	W. G. Smith, Stanton, Neb....	39.00
13.	S. D. Womble, Craig, Neb....	36.00
14.	O. F. Applegate, Oakland, Ia.	36.00
15.	H. S. Giltner, Oakland, Ia....	66.00
16.	J. H. Healy, Manilla, Ia.	38.00
17.	Ed. Askwig, Oakland, Neb...	37.00
18.	Ed Askwig	36.00
19.	Bud Lotta, Tekamah, Neb....	41.00
20.	C. A. Mogul, Oakland, Neb..	49.00
21.	Fred Hurrell	56.00
22.	Fred Hurrell	38.00
24.	Seward County Farm, Seward, Neb.	72.50
25.	Alvin Davis, Craig, Neb.	38.00
27.	James Dowden, Blair, Neb...	35.00
28.	Iver S. Johnson	50.00
28½.	C. A. Gansman, Seward, Neb.	35.00
29.	M. V. Mayden, Craig, Neb....	32.00
30.	Fred Moorehouse, Tekamah, Neb.	32.00
31.	D. J. Marsh, Tekamah, Neb..	42.00
32.	W. G. Smith, Stanton, Neb...	57.50
33.	Fred Hurrell	38.00
33½.	Ed Askwig	34.00
34.	Harry Seltz, Desoto, Neb....	52.00
35.	C. M. Hulbert, Oakland, Neb.	44.00
36.	Tom Patrick, Herman, Neb..	38.00
37.	D. M. Greenleaf, Tekamah, Neb.	62.50
38.	Ben Kjeldgaard, Tekamah, Neb.	37.00
39.	M. V. Mayden	37.00
40.	M. V. Mayden	33.00
41.	Carl Spiker, Herman, Neb....	30.00
42.	M. V. Mayden	33.00
44.	Ed Askwig	36.00
45.	E. J. Askwig	33.00
44½.	S. D. Womble, Craig, Neb..	41.00
48.	Ed Askwig	35.00
49.	S. D. Womble	38.00

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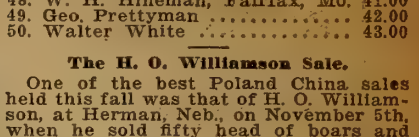

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Better Results by Better Methods

By C. E. Andrews

MUCH is being said and written about vaccination: The writer wishes to refer the reader to the recent article written by Mr. Beverly, D. V. M., published in the Iowa Homestead, October 9, 1913.

Dr. Beverly states:

This year has been a notable one in the history or hog raisers, namely, because of the large number of animals lost and the poor results obtained from vaccination. At no time has serum been used as generally throughout the state as in the past year, and the results obtained have been far below expectations. Hence, many farmers condemn serum on account of its being inefficient to stop the disease. It may be due, first, to the use of poor serum, second, to serum not being administered in proper doses; third, to vaccination for cholera when another disease is present.

"I have refused many farmers vaccination because I could not find sufficient evidence of cholera to warrant treatment. Many of these farmers vaccinated anyway and they lost their hogs and the money paid for the serum and the services of the party who vaccinated them. Results cannot be obtained unless post-mortems are held on a number of animals to ascertain the nature of the disease and the use of quack remedies to prevent this disease is a waste of time and money."

Dr. Beverly does himself an injustice when referring to "quack remedies," since he does not discriminate between the quack and the meritorious remedy the same as he discriminates between an inferior and a reliable serum, for thousands of hogs have been saved with an honest remedy. In fact, the writer knows many instances where farmers used a reliable remedy and saved all their hogs, while adjoining neighbors who vaccinated lost more than 75 per cent of the entire number vaccinated. yet, no doubt, Dr. Beverly has grounds for making his statements, as it is possible to find fake remedies and fake stock foods, but he should be as broad with the remedy proposition as he is in the second paragraph of his article endeavoring to show the difference between good and bad serum. The wording of his article would prejudice the farmers against all remedies, whether good, bad or indifferent. While he, with many other authorities, admits that there are many makes of serum on the market that are worthless, yet the effectiveness of a reliable serum is not denied.

In all vocations of life one may find fake propositions: fake lawyers, fake bankers, fake docto ', and fake government officials, which has been proven by government investigation in the past twelve months, yet in spite of this there are good, honest bankers, honest lawyers, honest doctors and honest men endeavoring to serve the public, and in like manner it is possible to find honest men manufacturing stock remedies, endeavoring to give value for money received, and if the government officials and veterinaries would stop condemning good remedies and advocate their use to condition the animals along with the serum treatment, and never allow a herd of hogs to be vaccinated unless the conditions were right, the results of vaccination would be many times more effectual.

Not long since The Kansas Farmer published an article written by Geo. F. Barb, D. V. S., Topeka, Kansas, wherein he states that the sole cause of whatever failures may have been experienced with the use of serum in the past, and the great opposition to its use by many experienced and intelligent hog growers, is due to the many makes of serum that are on the market which are worse than worthless, and that many hogs have died of blood poison caused by the introduction of infection with the insertion of the needle.

While this is true, why does the government permit the sale of inferior serum because if it is not reliable it is, without a question, spreading disease all over the country?

It is not the purpose of the writer to condemn a good serum, but the fact remains, nevertheless, that many serums are spreading the disease instead of checking it. One of the universal troubles and the greatest handicap of a good serum is the attitude that vet rinaries take in condemning all remedies. They are absolutely standing in their own light, fighting the one essential thing— a remedy to condition the hogs before and after being vaccinated.

The writer can find thousands of places where vaccination has been administered without even holding a post-mortem, which is against the instructions of Dr. Beverly in the first part of his article) or taking the temperature to see if it was possible to vaccinate with success, and when veterinaries will go out and vaccinate simply for the compensation, without taking the temperature and holding post-mortems, there is sure to be evil results, for if the animal has typhoid fever, pneumonia, worms and many other minor troubles, the vaccination is adding to the animal's already weakened condition, but I am not going to say that the farmer had just as well throw his money away as to spend it for vaccination, as Dr. Beverly says concerning stock remedies, for there is no doubt virtue in a good serum properly administered.

If the veterinaries would use a reliable remedy and condition the hogs three to five days becore vaccinating, then follow the treatment with a good remedy that will act as a blood purifier, fever suppressor, tonic and laxative, they would gain many advantages with serum. Vaccination will always raise the fever, fever will cause congestion and complications, hence no reasonable man will dispute the fact that the animal should have a reliable remedy bef re and after being vaccinated. In fact, a hundredfold better results would be obtained.

Just recently one of the state officials from Iowa and a local veterinary vaccinated more than 200 head of thoroughbred hogs for a party in northern Iowa. In this case, to their credit, they did take the temperature in advance of the treatment and pronounced the herd healthy. In fact, the herd was healthy, for the party had not lost a single animal and the veterinary pronounced the temperature of each animal normal, but this party was forced to vaccinate in order to ship a few head out of the state, as the Iowa law forbids shipment without a certificate of health, and in order to secure this certificate the hogs must be vaccinated. While the writer does not wish to attack the laws at this time, yet it looks like a terrible injustice imposed upon a man to make him vaccinate $10,000 worth of thoroughbred hogs to enable him to ship a few out of the state. The injustice of such a law is apparent and should be corrected. This party at first refused to vaccinate more than the few in question, but the veterinary told him that the entire herd would be subject to cholera unless they were all vaccinated, hence submitted to have the herd vaccinated and within three days' time the entire herd was sick and dying. The owner lost several very valuable animals. Think of it, after pronouncing the herd healthy prior to the treatment and in three days' time have $10,000 worth of sick hogs.

This party knew the value of a good remedy and immediately wired a certain manufacturer for their expert advice and when their representative arrived the veterinary admitted that the administering of the serum had evidently caused a severe case of blood poisoning. However, the expert hog doctor began treatment of the herd and saved all but two, according to the owner's written statement. So it is plain to be seen that there is danger connected with vaccination, even under the best of conditions, to say nothing of fake serums, which is admitted by Dr. Beverly and many other authorities which the writer could name, as well as from fake remedies.

It is not the intent of this article to prejudice the reader against the use of a good serum, but in order to get better results from vaccination the hogs should be kept on a light diet for at least three days and conditioned before injecting serum into their system. Then they should have a remedy to keep their temperature normal and regulate the system after the treatment.

The writer claims that serum will never be a success nor stop the ravages of cholera until a law is passed forbidding anyone to vaccinate hogs who are not qualified sufficiently to hold a post-mortem and know when and where to find cholera lesions. Then forbid the sale of serum that does not test to a certain standard. If a good serum will prevent and check the disease, pass it along, but for the sake of thousands who are suffering heavy losses, stop the sale of poor serum and stop the improper handling of same. Then the serum proposition will assist in checking the disease instead of spreading it, for when serum is injected into a herd of sick hogs that is infected with typhus fever and other diseases, evil results will certainly follow.

A recent article published by W. M. Carmichael, of the Department of Animal Husbandry of the University of Illinois, states that beyond any doubt in the minds of those who have made a careful study of the situation hog cholera is spreading rapidly rather than getting under control and the reason for this is that no systematic effort has been made to subdue it, and there is considerable doubt in regard to the possibility of ever controlling the disease by a method which seems to help spread it.

In the same article Dr. Carmichael states that the State of Illinois prepares serum at its laboratories, which is distributed free of cost. The writer believes this to be a dangerous method. Not wishing to criticise the great state of Illinois, but when serum is delivered to the farmers upon request and local men, without experience, vaccinate under any and all conditions, the results are sure to be anything but flattering, and in a sense, accounts for the doctor's statement that hog cholera is rapidly spreading.

The farmer should insist upon a post-mortem being held before injecting serum into his herd, and if found that they have a temperature of 106 or 108 degrees, forbid the treatment until the herd has been coditioned to receive same, thus insuring greater results from the serum used and more credit to the person administering same.

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I will also send you a special coupon good for 1500 votes toward the pony. All you have to do to get this coupon is to send your name and address at once.

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Improved and broadened in its scope. Enlarged by the addition of a Special Family Page, Boys' Page, Girls' Page and Children's Page. Great serial stories, 250 short stories. A remarkable Editorial Page. Current Events and Science. A wealth of variety and quality, and all of it *the best.*

ED194

FREE TO JAN., 1914

Cut this out and send it with $2.00 for The Companion for 1914, and we will send FREE all the issues for the remaining weeks of 1913 and The Youth's Companion Practical Home Calendar for 1914.

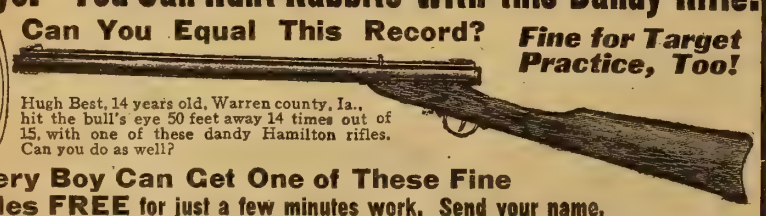
THE YOUTH'S COMPANION, BOSTON, MASS.

Illustrated Announcement for 1914 free on request.

Remember—52 Times a Year, not 12

Boys! You Can Hunt Rabbits With this Dandy Rifle!

Can You Equal This Record? ***Fine for Target Practice, Too!***



Hugh Best, 14 years old, Warren county, Ia., hit the bull's eye 50 feet away 14 times out of 15, with one of these dandy Hamilton rifles. Can you do as well?

Every Boy Can Get One of These Fine Rifles FREE for just a few minutes work. Send your name.

The first light snow will soon be here and you will want to get out in the woods and follow the tracks of the Rabbit. There's lots of sport in the early winter and right now is the time to get your rifle.

You can do it easy in a short time. Several thousand boys have already received them as presents from me, and what they have done you can do. Don't send any money but just your name and address and I will send full rifle particulars free.

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CLOVER New Crop Iowa Grown Recleaned TESTED and Inspected Red Clover. Also Mammoth, Alsike, Alfalfa and Sweet Clover of choicest quality.

TIMOTHY Blue Grass, etc., at low prices. Now is the time to buy.

Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.

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THE ADAMS SEED COMPANY

Box 61 Decorah, Iowa

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

This is laundry day, and here are two lots of napkins. This set is new, and, on first acquaintance, made a very good appearance. The laundry proved their undoing; they are "sleazy;" they are not what they seemed; they didn't "come out in the wash."

The other lot was made from a worn table-cloth, to be used for emergency calls only. However, they are from the genuine article in table linen, and the oftener they are laundered the better they look; they have retained the beautiful, satiny sheen of their forerunner, and so they "came out in the wash."

This dress: it is crooked. "Wasn't hung on the line straight," someone said. "Huh!" sniffed the matter-of-fact youngster, "you can't make me believe that anything that is straight will ever come out crooked 'in the wash.'"

A tailored suit was purchased, for herself, by a mother of grown daughters; it was a very conservative make, and of a quiet, unobtrusive color. The tailoring was faultless, but it was only "homespun," and the daughters were disappointed. The suit was worn with more or less disapproval, until it one day got soaked in a sudden downpour of rain. When the wrinkled, draggled garment was cleaned and pressed it came through the ordeal looking as fresh as new. So long as that suit lasted it ever after commanded the respect it merited, because it "came out in the wash."

A man had the misfortune to be misjudged, and for ten years was persecuted almost beyond endurance. He went quietly on his way, neither denying nor affirming, did his duty as he saw it, and finally the turning point came. When the tide of public favor turns, it flows rapidly the other way. So it was in this case; people, so far as they could, made amends for their former unkindness. This instance, in a modified form, would apply to any one of us. Everyone carries a burden, and everyone may, by persistently doing the thing his or her inner conscience approves, win out.

About our associates: are they the genuine article? Are they "real people?" Some of us there are who are confused as to who are genuine people. Much might be said on this subject, but, from a long experience as teacher and mother, I find one object lesson to be of more practical value than a whole volume of "wrote work."

A young girl possessed a wonderful talent for drawing. By denying herself the dainty clothes like those which her companions wore, and which every normal girl desires to possess, she was enabled to take training from competent masters. By patience, self denial and close application, she in due time became noted as a decorator of china. From coast to coast discriminating people sent valued possessions to her to be decorated.

This woman one day met a chance acquaintance who had at one time been her pupil. In the course of their conversation the name of another pupil was mentioned, one who was gaining some notice in the world of art. "Yes," quoth the one accustomed to receive deference from the better class of people, and fawning from the other kind, "she is getting to be quite a nice, worthy young woman, and they do say that she used to clean the cow stables!" "Madam," returned the artist, "I, too, have cleaned cow stables!"

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Live a little; comfort a little; cheer thyself a little.—Shakespeare.

My friend is that one whom I can associate with my choicest thought. —Henry David Thoreau.

Don't save all your smiles for the parlor; use a few in the kitchen.—Anon.

Do not keep the alabaster box of your love and tenderness sealed up until your friends are dead. Fill their lives wiht sweetness. Speak approving, cheering words while their ears can hear them, and while their hearts can be thrilled and be made happier. The things you mean to say when they are gone, say before they go. The flowers you mean to send to their coffins, send to brighten and sweeten their homes before they leave them. If my friends have alabaster boxes laid away, full of fragrant perfumes of sympathy, and affection, which they intend to break over my body, I would rather they would bring them out in my weary and troubled hours, and open them, that I may be refreshed and cheered while I need them. I would rather have a plain coffin without flowers, a funeral without eulogy, than a life without the sweetness and love emanating from sympathy. Let us learn to anoint our friends while they are yet among the living. Post-mortem kindness does not cheer the burdened heart; flowers on the coffin cast no fragrance backward over the weary way.

Polishing Furniture.—First wipe the dust from the furniture, then wipe with a cloth wrung out of water into which a very little vinegar has been added, and let the furniture dry before applying the polish. This treatment will be found to be very good, as it removes all the dirt and helps the furniture take a better polish.

Washing Blankets.—Sometimes in the rush of spring work, blankets are stored without washing. A noted school of household science gives this method, which is excellent: The essential things are: A fine, sunshiny day, plenty of soft water, melted soap, free from alkali, and ammonia or borax. Avoid heat, rubbing soap on the blankets, and rubbing on the board, as this will cause the blankets to shrink. To a tub of tepid water, add one tablespoon ammonia or borax, together with enough melted soap to make a suds. Wash the blankets by kneading and squeezing, never by rubbing. A washing machine saves much hand labor. Rinse in two waters the same temperature as the washing water. Run through a wringer, shake and stretch well. If they are shaken two or three times while drying, they will be much fluffier and softer.

For the Closet.—Purchase a curtain pole, the length of your closet. Fasten this at the desired height, by means of portiere brackets. In this way you will have the use of the sides of the closet, besides the pole, on which to fasten hangers. This will be found a superior way to hanging coats and suits against the wall.

For the Cook.—A Country Pot Roast. —In a hot frying pan, melt a lump of butter, or fry out a small piece of pork. While very hot, put in the roast and brown on all sides. Do not insert a fork or the juices will escape. When well browned, place in a heated kettle, pour water in the frying pan, to get any juice that may have escaped, and pour over the meat. Cover closely, and cook slowly two hours for a four-pound roast. Keep a cupful of water under the meat, and turn once in a while. Sprinkle a little flour and salt over the meat, fifteen minutes before serving.

Baked Onions.—Peel as many firm, medium-sized onions as your family will require. Put them in a saucepan and parboil until tender but not done. Remove and place in a baking dish, season with salt, pepper and tiny dots of butter. Cover with finely rolled bread crumbs and cover all with a cup of cream or rich milk. Bake in a moderate oven until a rich golden brown. Serve in individual dishes.

Steamed Apple Pudding.—Pare, core and quarter a dozen apples. Place in a baking dish, and cover with a rich biscuit dough, rolled three quarters of an inch thick. Place over a kettle and steam until the apples are tender. Serve with hard sauce.

Hard Sauce.—Cream one-third cup butter until very soft, gradually adding one cupful of powdered sugar, and continue beating until the sauce is light and creamy. Pile on a fancy plate, chill and serve at table.

AMONG OURSELVES.

In response to the call for letters that will be a help to by far the greater number of us several letters of exceptional merit have reached my desk. This is as it should be. It is good to know that, as a whole, people are not only willing, but glad, to be of help to their fellow-workers; and workers we all are, trying to not only do our work a little better, but a little easier. Now, sisters, in the midst of it all let's not forget that here is something due to our family besides food and clothing. Problems will come to many a woman before her family is grown that will cause the actual labor which she has done seem as nothing in comparison; work, after all, is but the means to the end. To meet these later, and I may

safely say, heavier burdens, it is not only right, it is a duty she owes to her children, to save her strength and keep her mentality bright. Further comment is not necessary. We have a communication from Mrs. "C. J. R.," on this subject, that I am glad to present to our club. The title reads, "The Rest that Comes Between:"

These are the gifts I ask of thee,
Spirit serene,
Strength for the daily task,
Courage to face the road,
Good cheer to bear the traveler's load,
And for the hours of rest that come.

Recreation is as essential to mental, physical and moral development as food and drink, and is just as surely an economic investment. The human machine is not different from any other machine, it needs rest and repair. The life of the locomotive which seldom gets to the shop for repairs is short, while the one that goes to the shop for repairs after each run, lasts almost indefinitely. Many people are wearing out and rusting out at the same time. A week's vacation furnishes thought and inspiration, not for seven days, alone, but for the whole year. Strange as it may seem, it is true that goodness often defeats its own aim. Of this there is no more pathetic example than that of the over-conscientious woman. Anxiety to do right shortens her vision to a very narrow routine and obscures the possibilities of life and joys to herself, and the better opportunities to be of service to others. She hammers away in the old rut so long that nothing can be gauged from a sane standpoint; so many grapes must put up—so many apples must be saved, it would be little less than a calamity for them to go to waste; no mattter that the weather is too warm to work with safety, we've "got to save. Save what? A few second-class apples at the expense of health, strength and temper, for this is the very kind of woman that is forever complaining of not being appreciated. Which is the better,

To cook and stew,
To pickle and can,
Make jell and jam,

—until her poor tired body is one great throbbing ache, and her nerves are so worn that she cannot keep the sharp, rasping tone out of her voice, or listen with any degree of sympathy to the interests of her children. Let the old apples rot; take your children by the hand and go for a stroll. How the children enjoy these trips with mother? How much more beauty they see in everything if mother is along. The bright autumn leaves take on an added degree of brightness and the very squirrels seem more frisky. How much more the beauties and grandeur of nature mean to them, with her there to help enjoy it. Believe me, sisters, there is nothing you can prepare with fruit and sugar that will so "sweeten" their lives and "preserve" their love for the good and beautiful, as these trips with you. And how rested you will be? Try it.

This member speaks from the heart and a full experience. It is easy to know "who is who" in these matters. Easy to distinguish "heart" work from "wrote" work. Every mother will, I am sure, partly understand. Now, listen: Mothers, you will not fully understand just what it all means until future problems, of which you do not now dream, come into your babies' lives. Not only help them to learn the ways of nature, do everything that is possible, while you may, to get a firm hold on their "heartstrings." To use a boyish phrase, "Get next with 'em." It is the only way, and will beat singing the "Wandering Boy" some time in the future, to a "frazzle."

We have a splendid community-building talk, by Mrs. Porter:

Ours was an all too usual condition in the country at this time. A community with a church left standing idle, because of removals that had weakened the membership until it was no longer kept up. A cemetery overgrown with weeds, and infested with chiggers, until it had become not only an eyesore, but a menace. This in a country of well-kept farms and prosperous people, who felt it a disgrace that nothing was being done to mend matters, yet who, individually, dreaded to take the first step for fear of being thought presuming. It was talked over frequently, all acknowledging that something should be done. At this juncture the women of the neighborhood assumed control. They called a meeting and organized a club which they call the "Ladies' Aid," as that was the most appropriate name presented. The officers who were elected got together and formulated a constitution and by-laws. This differs from other ladies' aids, in that it is under no church denomination. Any, who will may join, with the understanding that the funds are to be applied, first, to the upkeep of the cemetery and, after that, to any good cause. During the year and a half that the club has been in existence it has paid for a lawnmower, and hired a man to mow the cemetery and church grounds, bought shingles to repair the church, paid for flowers for funerals which have occurred among the families of its members, and are now to purchase a new organ for the church. Last year, besides all expenses, which were very heavy, $100 was put in the bank. The heartiest co-operation is manifest and the best feeling prevails. As an outcome, we have a well-kept church building, where a thriving Sunday school is held, and a cemetery that is a credit to any community. The material benefit to be derived from a club of this kind is not the greatest, by any means. It would be impossible to measure the good derived by the members themselves. It takes the busy farm woman away from home, and this of itself is a blessing. We hope to continue to keep our meetings informal and maintain the spirit of hearty good will which now exists.

Dear Mrs. Porter, from out of your busy life won't you give us occasional reports of this club that you have formed? It is an inspiration to others who desire to do something along the same line and do not know exactly how to begin. Winter will soon be here, and it is the desire of the members to make this club more interesting than ever. We need different view-points from different members, and every one will, I am sure, add her mite.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 7, Deut. 31:1-8; 32:48-52, Nov. 16, 1913

THE DEATH OF MOSES.

No human life was ever more full of scenic incident than that of Moses. From his wave-rocked cradle onward it was a march of stirring events, prolific of themes for the artist. These circumstances come to memory with the mere mention of Moses' name. The climax of this series is reached in Moses' death. No human demise surpasses it in a certain quality of weirdness. The story is that, on one of the many occasions on which the Israelites "murmured" in the wilderness, Moses was unusually incensed against them, and cried, "Hear now, ye rebels! Must we fetch you water out of this rock?" For some quality in this action which is not clearly defined, Moses was denied the privilege of entrance to Canaan. Aaron was already dead, and Moses had received his token. He uttered his stately farewell, chanted his song, and pronounced his blessing, and then began his solitary death journey to Nebo. There is no word of protest. He had certainly gained in submissiveness since he uttered that piteous cry, "I pray thee, let me go over." Josephus says he withdrew amidst the tears of the people, and that the elders and Eliezer and Joshua followed part way up the mountain. At length he reached the peak named Nebo. A miraculous vision of the entire land of promise is not necessarily involved. What he saw was a sample of the whole to the remotest limits named. The death of Moses has been idealized until one is lost in a maze of curious speculation. The rabbis say, for example, that Moses died by a kiss of the Lord. That in the act, Jehovah drew is life from him. This is elaborated from the phrase that Moses "died by the mouth of the Lord." The burial of Moses is made a mystery also. The tradition is that Jehovah himself buried him. The Septuagint, however, has it "they buried him." If those who attended to the burial of Moses kept their secret, and made no record of it, after their death it could be truthfully affirmed that "no man knoweth the place of his sepulcher." Jude makes reference to some Jewish tradition when he speaks of Michael contending about the body of Moses. These are matters speculative. They afford a fertile field for the imaginative, but for the average person the moral qualities of the man are confessedly more important than the accidents of his death and burial. Thus, for example, the death of Moses was undoubtedly intended to be exemplary. He was a lawgiver, but he was also himself a lawbreaker. He must suffer in sight of all the people the penalty of the law which he not only gave, but also broke. Again, it was manifestly unfit that the grave of one whose habit was to efface himself during life should become the Mecca of adulation. This self-forgetfulness has splendid illustration in Moses' very dying hour. He prays for a suitable successor, and cries, "Let Jehovah set a man over the congregation." This living for others has still further ex-

A Girl who asks— "May I trim your Hat?" And free of charge

She trims thousands of hats every year. She does nothing else, in fact. So far she has trimmed and made over some five thousand old hats, and made them look like new. She learned how to do it in New York, Paris and Philadelphia. And she does it by mail and without charge.

She is the Millinery Editor of *The Ladies' Home Journal*, and thousands of girls and women have learned to rely upon her to make a hat last more than one season, and to tell them what to do with a hat that is too good to throw away. In addition she answers questions relative to the dressing of the hair.

She does it in part each month in *The Ladies' Home Journal*, but her greatest work is done by mail, in personal letters, full, comprehensive, and directly helpful to the individual need. Her work is part of the personal service that the magazine gives to its readers, and that has made it a living, human institution that goes beyond print and paper and reaches out a helpful hand of actual service. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

A year's subscription to *The Ladies' Home Journal*, by mail, costs $1.50, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

THE CURTIS PUBLISHING COMPANY
INDEPENDENCE SQUARE
PHILADELPHIA, PENNSYLVANIA

You Can Not Be Too Careful

When it comes to the question of your children's health.

It is not always enough to know what are wholesome and proper foods for children—you must see that you get them pure and good also.

Farmer Jones SORGHUM BLEND SYRUP

Try This Fine Nut Candy

One and one-half cups Farmer Jones Sorghum, three-fourths cup granulated sugar, three-fourths cup butter, one-half pound chopped figs, one cup pecans, one cup English walnuts, pinch of baking soda. Boil sorghum and sugar until it thickens, then add the butter and continue boiling until it hardens when tried in cold water. Add the soda, chopped figs and nuts whole. When thoroughly mixed pour out on greased platter. **FREE**—Farmer Jones Recipe Book on request.

Farmer Jones Syrup is made from the pure, wholesome juices of the sorghum which we grow ourselves. These are refined and reduced to syrup by methods so clean, so perfectly sanitary through every step of the process, that absolute purity is assured.

No other Sorghum Syrup is prepared so carefully — so honestly. From seed to can we do it all.

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Packed in 5 and 10 pound friction-top tins—easy to open—easy to close up again.

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Send Us 5c in stamps to pay postage and we will forward you a sample can of FARMER JONES SYRUP and a Recipe Book—see above.

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emplification in the fact that while he led Israel up to the threshold of Canaan, he did not enter himself. He put them in the way of a goodly possession, in which he was not to have any share, even to the extent of pressing the soil with his foot. Thus, in sacrifice of personal aims and gains, he indicated in advance the crowning grace of the Prophet who was to be like him, though greater. What Moses was and did, these are the dynamic facts. What became of his body is matter of indifference. The latter is left uncertain, the former is recorded with precision. Not only is Moses' name hewn out on time as on a rock, but "he stands on time as on a pedestal."

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6347 Misses' and Small Women's Coat.—Separate coats are much favored just now, owing to the popularity of the one-piece frock and the separate blouse and skirts. This low-belted design is extremely modish. If desired it may be fashioned of one of the brightly hued polo cloths now so much in vogue. The pockets on each side of the belt are useful as well as ornamental.

The packet 6347 is cut in sizes 14, 16 and 18 years. Medium size requires 3⅜ yards of 44-inch material. Price of pattern ten cents.

6336 Girls' Dress.—A delightfully plain dress is shown here. The blouse closes surplice fashion and is trimmed with scalloped edges and novelty buttons. Collar and cuffs are of contrasting material and the long Russian waist is confined with a soft pretty sash of striped silk.

The pattern 6336 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 2⅜ yards of 36-inch material, ½ yard of contrasting goods. Price of pattern ten cents.

5687 Girls' Doll Set.—This set of clothes will delight any little girl, as the outfit contains eleven pieces and consists of a double-breasted coat, jumper dress, guimpe-and-petticoat in one, combination underwaist and drawers, nightgown and cap.

The pattern 5687 is cut in sizes for dolls measuring from 14 to 26 inches long. To make the set for a 26-inch doll it will require 1 yard of 40-inch material for the coat, ⅞ yard of 27-inch goods for the dress, 1 yard of 27-inches for guimpe-and-petticoat, ¾ yard of 36-inch material for underwaist and drawers, 1¼ yards of 27-inch for nightgown and ½ yard of 20-inch for cap. Price of pattern ten cents.

4616 Boys' Dress.—Boys' styles are very much the same. This little dress pictured above is for the real small boy who has not yet been put into knickerbockers. All boys like pockets and one is inserted in the left side of the front. The pattern provides for a removable shield.

The pattern 4616 is cut in sizes 1, 2 and 3 years. Medium size requires 2¼ yards of 27-inch material. Price of pattern ten cents.

4625 Girls' Dress.—This model is made in the semi-princess style; that is, it has the unbroken princess panel down the center of the front. From each side of this the material turns backward in small plaits on the waist and the skirt is kilt plaited.

The pattern 4625 is cut in sizes 6, 8,

Big Doll For You

D-L-I-D-M-L-

Can you fill in the blank spaces above and complete the doll's name? You can do this if you try. Just write and tell me what the name is and I will tell you how you can get this beautiful doll, nearly two feet tall and jointed at shoulders and hips. Her eyes open and shut, she has long flaxen hair and is beautifully dressed. You will be the proudest girl in your neighborhood when you get this doll, and she is yours for just a little easy work. Be sure to write and tell me her name today so I can send you my great free offer.

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25 Christmas Post Cards 10c

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25 of the Best Christmas Post Cards ever sold for 10c. All different, consisting of Holly, Mistletoe, Christmas Bells, etc., with inscriptions. Some are embossed and in gold, all are lithographed in many colors on a good quality of cardboard. Sent prepaid with our large catalogue and special offer, all for 10c.
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STAR NOVELTY CO. 1103 Monroe St. **Chicago.**

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Double the life of your new stoves. Make your old, cracked or warped stoves almost as good as new, by putting in the new, pliable, inexpensive

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Comes in soft bricks, can be cut, bent or pressed into place like putty. Hardens when fire starts. Hugs the iron tight. Ashes can't get back of it. Outlasts iron linings. Saves fuel. Costs only $1.25 for 3 bricks (size 7½ x 6) enough for one stove. Delivered, prepaid by Parcel Post, anywhere in the United States east of Denver. Already used in 60,000 stoves. Order from this advertisement. Money back if not pleased.
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373 East 5th St., Canton, O.

22-Cal. HUNTING RIFLE GIVEN

1914 Take-down Pattern, with all latest improvements, walnut stock and grip. Shoots accurately 22 long or short, handsome, durable. SEND NO MONEY. Just send your name and address for my easy plan by which you can secure this fine rifle ABSOLUTELY FREE EXPRESS PREPAID. Write today.
H. A. SLOAN, Dept. PF 115 W. Main St., Madison, Wis.

Silk Remnants for patching Crazy Quilts, Sofa Cushions, Bedspreads, Large pieces, all colors. Big Bargains in Pound Boxes. Send 10 cents for large package and 140 Quilt Designs. Our Silk the best, 3 for 25c. STAR SILK CO. Chicago, Ill.

10c. This Elegant Tango Ring latest popular fad, warranted for 3 years, also 1 exquisite ladies' Watch Chain and Charm and pkg. Oriental Perfume, all 10c.
Tango Ring Co. 1103 Monroe St, Chicago.

10 and 12 years. Medium size requires 5¾ yards of 24-inch material. Price of pattern ten cents.

4615 Child's Apron.—This is a one-piece design for children and girls. The garment is seamless and front and back are buttoned together on the top of the shoulder, while a strap across the shoulders in the back holds the apron in position. This apron will be pretty in white crossbar lawn, in muslin or gingham.

The pattern 4615 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 1½ yards of 27-inch material. Price of pattern ten cents.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 56, Box 21, Philo, Illinois.

JIMMIE'S GRASSHOPPER PARTY.

(First Prize.)

Jimmie Grasshopper talked all summer about having a party. In the autumn, his mother said that, that now he might send invitations for the party. The invitations were something wholly new; Jimmie called the butterfly to him and told him to tell all the bugs in the fields and woods.

The party was held in a nice, green spot in the woods. Miss Cricket came first, because she said her dress was so thin that she could not stay late. However, Mr. Firefly said he would take her home, because he could light the way with his lantern.

Little Miss Cricket sang a song, but Mr. Longlegs said her voice was too coarse. Then they played "Ring Around the Rosy," and "Hide and Go Seek."

For supper they had nice green lettuce leaves, and many other good things. Mr. Glowworm got drunk on blueberry wine, and some of the bugs had to carry him home.

All said that they had a good time, so they said goodbye to Jimmie, and then went home.

—Emma Fisher.

Radium.

(Second Prize.)

Radium is a metal. It was discovered by Professor Currie and his wife, in 1898. Radium is difficult to find in its pure state. It will continue to give out light and heat without loss of bulk or energy. The rays of radium reduce silver salts, transform white into red phosphorus, color glass and paper and cause a sensation of light when brought near to the eyes. The rays of radium will cause burns if placed near the skin; not at once, but after a considerable time. Radium is very expensive. Professor Currie and his wife were from France.

—Freckles.

Our Government.

(Third Prize.)

How many of us ever think what our government does for us? It provides free edpcation for every boy and girl, employs inspectors of milk, meat and other foods in order to safeguard our health. It also paves and lights the streets for our pleasure, carries on affairs concerning the mail, money, commerce, punishment of crime, building of roads and bridges, care of the poor, provision of water supply, and most important of all, protects our life and property.

—E. M. G., age 14.

THE NATIONAL APPLE DAY.

Let everybody know that Tuesday, November 18th, is the national apple day. This day has been set apart by the various great organizations interested in apple growing and apple selling as the one apple festival. In some apple-growing sections several days or a whole week will be given to the festival, but in other places one day will be considered sufficient.

It is asked and expected that upon this day every man, woman and child in the United States will eat at least one apple. Presumably very patriotic people will make the apple the leading feature of the day's rations.

In a large measure the health and prosperity of our nation are bound up in the apple. It has been called the national health food, and as good an authority as Dr. Wiley has said that the eating of apples is the best possible method of preserving health.

The apple has also been called the sure cure or at least the prevention of intemperance in the use of strong drink.

Because the culture of this fruit has reached, in the United States, a high state of perfection and because we grow it upon a larger scale than any other nation, it is especially fitting that this country should have an annual apple festival.

There are a multitude of ways and forms in which the apple appears upon the American dinner table. No less than 200 methods of serving it has been listed. And this does not include cider—soft or hard—which is the form most acceptable to some.

To appreciate the importance of this crop imagine a total failure for one year and only suppose we were deprived of the 40,000,000 barrels annually produced. Why, the result would be a calamity felt by every man, woman and child in the nation.

The apple is one of the basic props of our prosperity and our whole fabric of society and civilization is built upon prosperity.

Show your appreciation of the orchardist's work by eating apples November 18th. Let your deeds in apple consumption be your offering of thanksgiving for such a marvelous gift as the American apple is to the human race.

The University of Illinois is to build a farmers' convention hall that will seat eight thousand people on the main floor and three thousand more in the galleries. The building will be used, also, for an exposition hall for fine stock shows and agricultural produce of various kinds connected with the college of agriculture and the experiment station. It will have various other uses, but it is of particular interest to note the plans that have been made for using it for farmers' gatherings, farmers' short courses, etc. It will be the biggest structure of its kind in the country and exemplifies the policy of the university faculty in regard to the farming industry of the state.

Vegetables of a leafy nature, such as cabbage, lettuce and spinach, are greatly benefited by the application of lime. In order to grow profitable crops of lettuce and spinach it is necessary to fertilize liberally.

Deafness

From All Causes, Head Noises and Other Ear Troubles Easily and Permanently Relieved!

Thousands who were formerly deaf, now hear distinctly every sound—even whispers do not escape them. Their life of loneliness has ended and all is now joy and sunshine. The impaired or lacking portions of their ear drums have been reinforced by simple little devices, scientifically constructed for that special purpose.

Wilson Common-Sense Ear Drums often called "Little Wireless Phones for the Ears" are restoring perfect hearing in every condition of deafness or defective hearing from causes such as Catarrhal Deafness, Relaxed or Sunken Drums, Thickened Drums, Roaring and Hissing Sounds, Perforated, Wholly or Partially Destroyed Drums, Discharge from Ears, etc. No matter what the case or how long standing it is, testimonials received show marvelous results. Common-Sense Drums strengthen the nerves of the ears and concentrate the sound waves on one point of the natural drums, thus successfully restoring perfect hearing where medical skill even fails to help. They are made of a soft, sensitized material, comfortable and safe to wear. They are easily adjusted by the wearer and out of sight when worn.

Drum in Position

What has done so much for thousands of others will help you. Don't delay. Write today for our FREE 168 page Book on Deafness—giving you full particulars.

WILSON EAR DRUM CO., Incorporated
326 Inter-Southern Bldg. LOUISVILLE, KY.

SHIP TO WILLARD'S IF YOU WANT THE BEST TANNING

WRITE TO-DAY FOR CATALOG & PRICES ON MAKING COATS & ROBES

WILLARD, SON & CO.
MARSHALLTOWN, IOWA

If you will send me a horse, cow, steer or bull hide to be tanned and made into a coat or robe. I do the work at a reduced rate and give you free either a cap, a pair of mittens or a pair of gauntlet gloves. Either one of these goes to every customer who will send me a horse, cow, steer or bull hide to be tanned and made into a coat or robe. I have reduced tanning to a science, having had 25 years' practical experience. I can make better prices on good tanning and finely finished coats and robes than other tanners and yet afford to throw in one of the above. My modern plant also enables me to make these reduced prices and this startling offer.

H. B. MICKLE, President, MICKLE FUR COAT & ROBE CO., MASON CITY, IOWA.

FUNSTEN Pays CASH for FURS!

Funsten Bros. & Co., Will Sell the U. S. Government Seals. Send Yours

Biggest prices! Better grading! Most money by return mail! We are the largest in the world in our line. The biggest Canadian, American and European buyers are represented at our regular sales. This year we will handle the Government's Alaskan seal output. More buyers and better prices than ever. We sell furs in larger quantities, get more spot cash and pay you more cash than you can get anywhere. Ship all our business direct with you. We want $10,000,000 worth of furs—anything—from one skin up

Big Money in Trapping Mink, coon, skunk, muskrat, fox, wolf, lynx, white weasel and all kinds of furs wanted for cash. TRAPS AT FACTORY PRICES

Funsten Animal Baits Guaranteed to increase your catch or money back. Won Grand Prize at World's Fair in 1904. U. S. Government uses them. One can brought one man $1,199 clear profit. Only $1 a can. Write today for free Trappers's Guide, Game Laws and Trapper's Supply Catalog—Fur Market Reports, Funsten Fur Shipping Tags, etc. ALL FREE. (41)

Funsten Bros. & Co., 1662 Funsten Bldg., St. Louis, Mo.

98 CENTS POST PAID

To advertise our business, make new friends and introduce our big catalogue of Elgin watches we will send this elegant watch postpaid for only 98 cents. Gent's size, high grade gold plate finish, lever escapement, stem wind and stem set, accurate time keeper, fully Guaranteed for 5 Years. Send 98 cents today and watch will be sent by return mail. Satisfaction guaranteed or money refunded. ARNOLD WATCH CO., Dept. B-16 CHICAGO, ILL.

BIG HOME COMBINATION

FOUR PAPERS FOR THE PRICE OF ONE

I have closed one of the best subscription arrangements ever made by a publisher of a farm paper.

If you will mail your order during the month of November I will send you The Homestead three years, Home Life, McCall's and Today's magazines each one year for the regular subscription price of The Homestead alone. Read about these four papers.

The Homestead

The leading live stock and farm journal of the West. Its editorial advice and the experience of its large corps of contributors are written with the especial purpose of adaptation to the needs of the readers. It takes up in detail every feature of live stock raising, general farming, dairying, poultry growing, etc.

Regular price, $1.50 for three years.

Today's

Today's Magazine is a monthly and contains from 32 to 44 pages. Large, complete woman's magazine. Full of the choicest kind of literature relating to history, travel, science, invention, art, drama, education, religion, music, fashions, needlework, hair dressing, home dressmaking, health, hygiene, cooking, etc. Also short stories and serial stories.

Regular price, 50 cents per year.

Home Life

Filled with human interest articles on health, hygiene, character, religion, education, and the preservation of the home. It tells how to beautify the home and make it attractive. It contains several pages of short stories and several noted serials during the year.

Regular price, 25 cents per year.

McCall's

McCall's Magazine contains from 80 to 124 pages each month and is one of the greatest Woman's Fashion Journals in America. It contains special articles on dressmaking, millinery, fancy work, home decorations and household management. It illustrates 50 to 60 fashion designs every month, some in colors, besides containing numerous other attractive features which make this a favorite magazine in over one million homes.

Regular price, 50 cents a year.

THIS IS MY OFFER

Send me only $1.50 for three full years' subscription to The Homestead and I will send you, without additional charge, McCall's, Today's and Home Life, each one for a full year. Remember, the offer is good only till December 1, 1913. We cannot supply you with the combination after that date. Wrap a fifty-cent piece in a one-dollar bill, attach it to the coupon below and mail it to me at once, at my risk. Do this now, before you forget it.

JAMES M. PIERCE, **Publisher The Homestead, Des Moines, Iowa**

USE THIS COUPON

Date .....

James M. Pierce,
Publisher The Homestead.

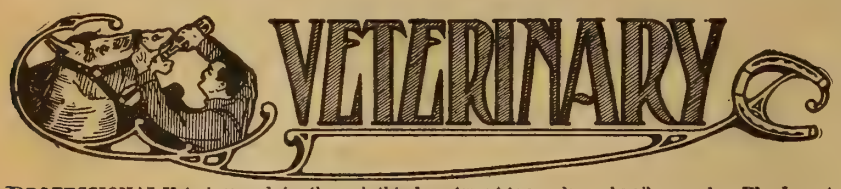
Enclosed please find $1.50 for which extend my subscription to The Homestead **three years.** Also send me McCall's, Today's and Home Life, each one year, without additional charge.

My name is.....

Postoffice .....

Rural Route..... State.....

(This coupon is not good a... December 1, 1913.)



PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. Thoroughly good and reliable veterinary remedies are advertised from time to time on these pages. If they were not good and reliable they could not appear in our paper. Our readers are requested to look them over. You may find here some remedy which will exactly fit your case. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

CROOKED FOAL.

I have a mule colt four months old that is becoming crippled. It now stands on its toes in front and will not set its foot down flat. Apparently it is healthy. Have had two others that started like this and they become permanently crippled.

The tendons are thickened and shortened, but there is good hope of recovery if you hand rub the tendons and joints thoroughly three times a day and each time force the feet flat down upon the ground; then put on ankle boots and braces or splints and bandages to keep the fetlocks in their proper position. Possibly you may be able to interest your blacksmith or harnessmaker to devise suitable braces or boots.

ABORTION.

I have a full-blooded Jersey cow that raised me a nice calf last year, but now she will get with calf and then lose it in two and one-half or three months. Is there any remedy for this?

No specific remedy has been found for contagious abortion, but you should give the new treatment, recommended by the Vermont station, which is to give half an ounce of pure medicinal methylene blue in a gelatine capsule night and morning with a balling gun, and after four weeks interval the treatment should be repeated for another seven days and continued at four-week intervals throughout pregnancy. Start the treatment early in pregnancy. This treatment has given wonderfully good results to date and will be largely tried throughout the country until its efficiency is fully tried, one way or the other. The approximate cost of the methylene blue (medicinal) is $2.50 per pound. The daily dosage costs therefore about ten cents or seventy cents per week, per cow.

SORES.

Have a large herd of hogs of all ages that have been raised on alfalfa meadows and fed but little grain, kept in good condition. In the last twenty days all of the younger ones have broke out around the eyes and ears and some about the stomach with a coarse pimple which in some cases assumes the appearance of a large wart. About the eyes it becomes raw and makes it impossible for them to hunt food. On further examination I find that the eruptions are more nearly like boils. They do not seem to be sick and all have a good appetite.

Scratches or sores become invaded by the bacillus necrophorus, a filth germ, causing canker sores. This bacillus is also the cause of lip and leg ulceration so common in sheep in the western states. Change the pigs into clean pens and yards; away from possible causes of scratches, such as cactus, needle grass, foxtail grass, or anything of that sort and out of manure and filth. Scrub and scrape each sore clean; then lightly rub it with a lunar caustic pencil and afterward swab twice daily with a 2 per cent solution of permanganate of potash. Paint boils or lumps daily with tincture of iodine, then open when they become sof evacuate pus or other fluids and use tincture of iodine daily until they have healed. Isolate affected pigs.

TUBERCULOSIS.

I own a herd of Jersey cattle and I think one of them is affected with tuberculosis. What are the symptoms and what shall I do with her if she is affected?

To determine the presence of tuberculosis it is absolutely necessary to employ a graduate veterinarian to apply the tuberculin and if the disease is found present he will instruct you as to the disposal of the animal. Physical symptoms of tuberculosis often are practically absent; but in many cases the disease is indicated by cough, emaciation, weakness and hidebound coat.

SORES.

I have a 700-pound steer that has sores on his hind feet in the center of the foot just above the hoof. They seem to be circular and of a spongy appearance, foul smelling. He is not lame, but is very touchy about the sores. Have put on some powdered blue vitriol.

Keep the animal up. Cleanse the parts and then saturate the sores with a solution of half an ounce of sulphate of copper to a pint of water used as hot as the hand will bear; then cover the sores with a mixture of equal parts of calomel, subnitrate of bismuth and boric acid, cotton batting and bandages. Renew the latter dressing daily and if necessary use the copper solution at intervals of three days.

VENTILATION FOR ANIMALS.

The amount of pure air which must be breathed by different animals during twenty-four hours, in order to supply the oxygen needed, computed from Colin's table, is given below:

Horse breathes 272 pounds, 3,401 cubic feet of air.

Cow breathes 224 pounds, 2,804 cubic feet of air.

Pig breathes eighty-nine pounds, 1,103 cubic feet of air.

Sheep breathes fifty-eight pounds, 726 cubic feet of air.

Man breathes thirty-four pounds, 425 cubic feet of air.

Hen breathes two pounds, twenty-nine cubic feet of air.

These facts clearly show the necessity of proper ventilation if an animal is to do economical labor, take on flesh or give the best results in other products.

Grazing or silage is always economical, as this is nature's way of restoring an overworked stomach and reviving the appetite to normal. In winter, with nothing but dry feeds, it is a very difficult matter to keep the animals upon high production without an occasional failure of milk. But with silage it is much easier and feeding is greatly simplified.—[Farm and Ranch.

The illustration shown herewith is that of Chief Select 2d, owned by Wm. Moderow, Beemer, Neb. See field note on page 31

THE BEST FOR HOGS

LEE'S HOG REMEDY

The Government formula, with additions by us.

Made only from

Sulphur; Iron Sulphate; Salt; Charcoal; Sodium Bicarbonate; Tobacco Powder; Antimony; Sodium Hyposulphite; Flake Naphthalin; Gentian; Sodium Sulphate; Copper Sulphate; Aloes.

Contains no meal as filler

Good for **Worms, Coughs, Fevers, Indigestion, Bowel Trouble** and as a **general conditioner** for disease prevention.

Sold by most Lee agents in the Central West.

25 lb. pail $2.00; 100 lb. box $6.00.

GEO. H. LEE CO., Omaha, Neb.

Easy For The Boy

A Money Maker for the Man

The hoisting gear has a power of 40 to 1—twice as much as others; easily, quickly and safely raised and lowered, and stands at any point; no hit and miss ratchet to bother and let the box drop and smash; no dangerous crank to fly back and cripple the boy: runs easily on sharp curves or switches, in either direction, to right or left—these are a few of the important advantages of

The Louden Litter Carrier

which changes hard, disagreeable work for a man into easy pleasant work for a boy—and keeps the barn clean and sanitary so the cows will give more milk and bring more money.

Has box of heavy galvanized iron, reinforced by angles and soldered watertight. All the latest up-to-date improvements which inventive ingenuity and long experience can devise. Will save its cost many times a year.

We also manufacture a full line of Hay Tools, Bird Proof Barn Door Hangers, Feed Carriers, Stalls, Stanchions, etc. Catalogs mailed free. If you are going to build or remodel a barn our Special Architectural Department will send you, free, valuable information and plans which will save you money and worry.

LOUDEN MACHINERY CO., - - - 197 Broadway, Fairfield, Iowa.

SAVE-THE-HORSE
(Trade Mark Registered.)

THE LAME HORSE is never cured whose owner reads and doubts,—BUT FAILS TO ACT—Here is a case in Point,—And what Happened to this Subscriber is Taking Place with Thousands.

Letter No. 1 Orleans, Vermont, April 26th, 1912.
Troy Chemical Co., Binghamton, N. Y.—Your adv. has given me courage to try again. I have a valuable pacer. Two years ago he went lame. I tried every remedy and Doctors have blistered three times for spavin and twice hip. The symptoms are—etc., etc. I determined to see what you think. HALE MASON.

Letter No. 2
Orleans, Vt., May 2nd, 1912.—I received your letter and book yesterday and believe you are right about its being a bone spavin. I was so encouraged I drove eight miles and bought a bottle of Fred D. Pierce, druggist at Barton, and will closely follow your special instructions. Thanking you for your quick reply to my first letter, I remain, HALE MASON.

Letter No. 3
Orleans, Vt., Oct. 2, 1912.—Perhaps you expected to hear from me before, but I have been waiting to see if any trouble would return after stopping the treatment. I am pleased to say the horse is well. I cannot thank you enough for your interest and the advice you gave. If I had known about it two years ago it would have saved me a lot of money. Yours respectfully, HALE MASON.

Save-The-Horse has stood alone and unique among veterinary remedies for over seventeen years.

Every bottle of Save-the-Horse is sold with an iron-clad contract that has $60,000 paid-up capital back of it, guaranteeing to permanently cure or refund the money; no matter whether it is Bone or Bog Spavin, Tendon disease or Puffs—nor how aged, serious or complicated the lameness or blemish may be.

But write, describing your case, and we will send our—BOOK—sample contract, letters from Breeders and business men the world over, on every kind of case, and advice—all free (to horse owners and managers).

Write! AND STOP THE LOSS.

TROY CHEMICAL CO. 3 Commerce Ave., Binghamton, N. Y.

Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by us Express Prepaid.

5A

Horse Blankets

outwear several ordinary blankets. They are closely woven of hard, tight-twisted, high-quality yarns. Extra warm, heavy and strong; they hang gracefully.

Cost You Less Money

not only because they last longer than ordinary blankets, but also because your dealer *buys direct from our factory*—the largest horse-blanket factory in the world.

Ask Your Dealer for

5A Storm King Square Blankets

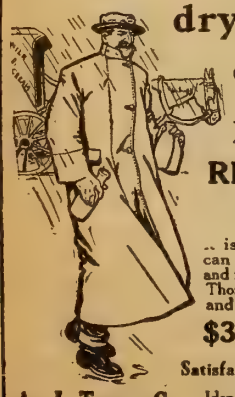
They are strong, warm, thick and closely woven. They outwear several ordinary blankets. Weigh 8 lbs. Measure 84 x 90 inches. Medium price.

Buy a 5A Square Blanket for street use.
Buy a 5A Bias Girth Blanket for stable use.
Buy a 5A Plush Robe for carriage or auto.

Write for booklet showing blankets in colors.

WM. AYRES & SONS, Philadelphia, Pa.

For wet weather,—
dry clothes
and
comfort
wear Tower's
Fish Brand
REFLEX
SLICKER



... is all you want, or can get, in a rough and ready service coat. Thoroughly waterproof and strong at every point.

$3.00 at your dealer's

Satisfaction Guaranteed

A. J. Tower Co. BOSTON
Tower Canadian Limited, Toronto

Identified always by this mark TOWER'S FISH BRAND

5 13 Catalog free

Don't Have a Blind One

VISIO A Remedy for MOON BLINDNESS

(Opthalmia) Cataract and Conjunctivitis. *Shying horses all suffer from diseased eyes.*

"Visio" will convince any horse owner that it is the best remedy for defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "Visio" under our money back guarantee.

$2.00 per bottle, postpaid on receipt of price.

VISIO REMEDY ASS'N., 2458 Calumet Avenue, Chicago, Illinois

Hog Cholera

Can be prevented and stoped. Recent tests have proven the efficiency of a treatment which immunes well hogs, and saves sick hogs. Death to hog worms. Any one can use it. $5 case treats 40 hogs. Book and particulars free. Agents wanted. DR. D. C. SNODDY CO., Dept. O, Nashville, Tenn

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

GOOD QUARTERS FOR SHEEP.

To the Editor of The Homestead:

I have found from years of experience in the sheep raising business that it pays, and pays big to provide good safe quarters for the ewes when they are dropping their lambs, and cannot take care of themselves. I want to call your readers' attention to an incident that came under my observation when I was with a farmer only a few miles away from me, and was looking at his flock of sheep. I saw that he had some sheep of good blood, and they seemed to be in very good condition, and I was talking with him and asked him if he was making good money out of them if he could keep them from dying as they did. He said that half or more of his lamb crop died every year.

I thought that there surely must be some cause for his sheep dying that could be remedied, so I asked the cause and he said that he could not tell why, but his lambs were very hard to raise, that he did not have many old sheep to die, but his lambs were always giving him trouble. So I thought I would see if I could find the reasons for his lambs dying.

I asked the brother farmer where he kept his ewes when the lambs were small, and he took me to an old house that had in time been a dwelling house, and he is now using it for a house to keep his ewes and young lambs in.

On entering the house I was surprised to find things arranged as they were. I found loose planks of all kinds lying all over the floor, and boxes of all sizes, and pieces of boxes, also loose wire, barrels, jugs, and I am not sure what else as I could hardly tell what was not there for it was not easy to get inside to see. However, I got in enough to see that it was a shame to keep them in such a place.

This man just put his ewes and young lambs in that old house and thought they ought to just live anyhow. The house was a large square house and had it to be cleaned out and divided into small stalls so the lambs could have been with their own mothers they might have done well, as the roof was very good. Shame on such a farmer; he could not tell which lambs belonged to certain ewes, and you know that some ewes don't like for other than their own lambs to bother them especially when they are crowded.

He just put them in there any way, and of course young lambs are very tender and they would become entangled and get hurt or perhaps something turned over and hurt them, and, of course, enough of such abuse would put them out of business.

Some of them (surprising as it may seem) would make it through and not get hurt, and as he had good blood they would make very good sheep, but he was not making anything as he could have, and should have been.

I thought that right there was a mighty fine time to drop a few hints; thought they might stimulate him a bit to better things, so I advised him to clean out that house and build him some rather small pens for the ewes with lambs till they become well acquainted with their own mothers when turned out with the whole flock and he would not lose so many lambs and that the next time when I was there he would have a new song to sing about the sheep business.

He said that he had always been used to this house and had never thought much about what I had told him, but he would clean it out and see if he could do any better, as he certainly was losing money under the present way.

Of course, all men do not do this way, nor do I mean to say that they do, but there may be others that could profit by this, and what I want to impress is the importance of having things cleaned up in good shape so that they cannot get hurt in this way.

I have learned that the young lambs cannot be too well cared for if you are in the business for profit, and if I was not in it for profit I would quit the business before night; but when those early lambs go on the market, they leave a check behind that makes the good wife smile, and when the "wolf" comes around our way it is no trouble for the wife to give him a scare and we are then rid of him.

I have learned to look to the lamb crop as one of my best sources of incomes, and I know that where they are rightly handled they will prove thus to you.

No, I don't think you can get rich out of a small bunch in a short time, or at least I have not, but I have reference to making a few good honest dollars, to get grub for the kids and wife. You know how it is in the spring when the new styles all come around. No, we don't try to keep up with all of them, by any means, but it calls for some money just the same, and my! how the early lambs help out.

Subscriber.

SHEEP.

ELK GROVE SHROPSHIRES

I AM offering thirty choice rams for sale. Twenty four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address
FRANK RAINIER - - - - - - - - - - - LOGAN, IOWA

FORTY GOOD SHROPSHIRE RAMS

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes sired by imported rams. The ewes also directly descended from imported ewes. Address
DAVENPORT & MACK - - - - - - - BELMOND, INWA

Golden Hoof Stock Farm

OFFERS a few hundred rams of exceptional merit. No better or more noted flock of Shropshires was ever assembled. The Hampshires are of exceptional merit and the Rambouillet and other breeds offered are of the same high order. If looking for the best ever, and at reasonable prices, address
GEO. ALLEN & SONS, LEXINGTON, NEB

FOREST HILL STOCK FARM

A FEW real bargains left in Shropshire rams, including our flock ram. We now offer ewes bred, at prices that will look good to all contemplating purchasers. Lambs of both sexes. Write or call. Bargains in ewes for next 30 days or until surplus sold.
KAUFMANN BROS., R. 1, MOSCOW, IA.

POLLED DELAINE MERINO SHEEP

EXTRA large rams, also choice young ewes at ½ price.
POLAND CHINA HOGS, BIG-TYPE
Fall and spring boars at $18.00 to $20.00. Rams same prices. Order now and get the best.
F. F. & V. G. Warner - Bloomfield, Iowa

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Willard Miller, R-3 Anita, Iowa.

In and Around Wisconsin

ONE hundred and one head of cattle were recently sold at public auction in Woodstock, Illinois, by the Holstein-Friesian Association, bringing a total of $20,000. John F. DeYarmond, a dairyman in the town of Riley, paid $450 to T. E. Getzelman, of Hampshire, Kane county, for "Segis Plum," an especially well-bred Holstein. Two other sales reached $400 and there were seven between $300 and $400. Breeders from several states attended the sale. The McHenry county Holstein-Friesian Association was organized in 1910, its object being to promote the raising of pure-bred cattle.

The old Warren farm on the east shore of Powers Lake, Walworth county, formerly considered one of the finest in the middle West, but which has deteriorated in value and appearance through neglect, has been sold to William Randolph Hearst, the millionaire newspaper owner, of New York and Chicago. Mr. Hearst will spend large sums of money in equipping it for a summer home.

Wausau may be a rival of La Crosse for the location of the first co-operative packing plant to be erected in Wisconsin by the American Society of Equity. The Wausau Advancement Association, which has made proposals to State Organizer J. H. Carnahan, of Black River Falls, was told that its plans would be given due consideration.

Marinette County Potato Growers will hold their third annual institute in Wausaukee on Wednesday, November 12th. On that day the "potato special" will reach that city. Premiums will be offered for the best exhibits of potatoes and the growers of the county are invited to send exhibits of a half-bushel each of their best stock. The premium list will also cover other crops, such as corn, rutabagas, cabbage, onions, grains and fruits.

Drainage Commissioners J. Kamper, John Moyle and A. R. Hulbert have been ordered by Circuit Judge Belden to immediately start work on the Norway-Dover drainage canal in Racine county, according to a recent decision rendered by him. The commissioners were upheld on nearly every point against the remonstrators who brought the matter into court, and the remonstrants must pay the cost of the hearings. Thirty-two of the 300 landowners interested entered remonstrances, mostly to the effect that the individual assessments would be too high. Judge Belden holds that the cost will not exceed the benefits. The estimated cost of the drainage project is $80,000.

A. C. Holden, of Glen Flora, Wisconsin, had about five acres of potatoes this year which yielded him 1,300 bushels. After putting away 140 bushels for his own use, he has sold two carloads, one at 45 cents and the other, which goes directly to Missouri, at 60 cents. After deducting all expenses the two cars will average him 50 cents per bushel or about $550. Mr. Holden will receive an income of $110 per acre besides having plenty of potatoes for his own use.

A year ago hunters who ventured out on Turtle Creek marsh north of Delavan found it necessary to wear hip boots to keep dry and even these were sometimes inadequate for protection. To-day one can walk all over the nearly five square miles comprising the marsh in ordinary shoes, and not get wet. Ditches two, three, and even five feet deep, dug by early settlers now have no water in them. This remarkable result has been obtained from a comprehensive drainage system. The main ditches are twenty-six to thirty feet wide and eight feet deep. The main ditch from Turtle Lake to Delavan is about seven miles long and four laterals aggregating twelve miles in length, empty into it. Some 3,200 acres of valuable land have been reclaimed and a large part of it can be broken up and placed in a state of cultivation.

Seventeen cars of apples were billed from Twin Bluffs station, Richland county, this year. Each of the cars contained about 250 barrels.

E. T. Bartholomew, of the Wisconsin College of Agriculture, has discovered that the mysterious "black heart" in potatoes is caused by overheating; storage in a temperature of 100 to 104 degrees Fahrenheit for eighteen to twenty-four hours. Experiments were conducted with twelve varieties of potatoes before this conclusion was arrived at.

The timber harvest in the southern and eastern parts of Sawyer county will be heavier this season than in many years. All the lumber companies have opened up their old camps and started to erect new ones. Approximately seventy-five camps will be operated and between 5,000 and 6,000 men will be employed during the logging season. The total cut will be near the 20,000,000 mark. About 60 per cent of the timber logged is hemlock and the rest hardwood and pine. A great quantity of ties, cedar posts and poles will also be cut.

Grant county is steadily growing into prominence as a dairy country, the value of the annual product of its creameries and cheese factories having reached about $1,500. Fennimore ranks first in the amount of butter produced, Lancaster second and Boscobel third.

The new hog barn of the Wisconsin College of Agriculture will be completed and ready for use not later than December first. It will cost approximately $4,000 and have room for fifty or sixty hogs to be used principally for breeding purposes.

Superintendent Babcock, of the Turtle Lake pea-canning factory, has warned farmers that if the acreage planted to peas is not increased from 300 acres to more than 700 acres next year the factory will be moved.

PREVENTING GROWTH OF HORNS ON YOUNG CALVES.

To the Editor of The Homestead:

To those who dislike dehorning the method of preventing horns from growing on the young calves should appeal very strongly. There are many farmers who dislike cattle with horns, but because of their abhorrence of the supposedly cruel performance of dehorning they will not have the horns removed. Here is a plan by which they can prevent the growth of the horn with practically no pain to the calf.

When the calf is four days old the young horn should be treated with caustic soda or caustic potash. Either of these may be secured at the drug store in sticks about the size of an ordinary lead pencil and five inches long. These must be handled with care so they do not come in contact with the flesh as they will dissolve the cuticle and make a sore place.

The hair should be clipped from the calf's head by means of sharp shears up close around the horn buttons. These places should be thoroughly cleaned with warm soap and water and wiped thoroughly dry. The piece of caustic should be handled with gloves or wrapped in a heavy piece of paper, leaving one end of the stick exposed. Now moisten the exposed end of the stick and rub it on the horn buttons. Rub it over each button alternately two or three times and allow the caustic to dry. Be certain that the caustic is applied only to the buttons. Do not allow the moistened caustic to run down on the calf's skin or it will burn into his flesh. After treatment keep the calf out of the rains, for the rain will melt the caustic on the horn buttons and cause it to run over the calf's face.

Subscriber.

It is easy enough to become addicted to the habit of buying in small quantities. I am always surprised when in a store for any length of time to see how many well-to-do people buy such things as soap and matches in five and ten-cent quantities. One gains a box by buying matches by the quarter's worth and a still greater per cent by buying soap in the 100-bar box.

This is a poor time of the year to let cattle shrink. Letting an animal start to run down in condition now means more feed later to maintain weight and condition. Good shelter also saves much feed. It is an absolute certainty that when an animal is made warm and comfortable with good shelter the feed required to maintain the animal heat is not nearly so great.

DATES FOR LIVESTOCK SALES.

Poland China Swine.

Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheyedan, Iowa.
Jan. 24, Beall & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Iowa.
Feb. 2, Coleman Bros., Ithaca, Neb.
Feb. 3, Theo. Martin, Bellevue, Iowa.
Feb. 3, C. A. Rosenfeld, Kelley, Iowa.
Feb. 4, John Jacobson, Gilbert, Iowa.
Feb. 4, E. C. Forest, Miles, Iowa, (sale at Lyons, Iowa).
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, E. W. Kreischer, Mt. Vernon, Ia.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Iowa.
Feb. 6, Williams Bros., Villisca, Iowa.
Feb. 6, John I. Dripps, Sprinville, Iowa.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, Henry Fesenmeyer, Clarinda, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 18, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 19. C. W. Phillips, New Sharon, Ia.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21. O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Iowa.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Nov. 25, F. E. Zimmerman, Metamora, Ill.
Nov. 26, W. M. Sells, Indianola, Iowa.
Dec. 18, H. E. Browning, Hersman, Ill.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, F. E. Zimmerman, Metamora, Ill.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 20, Wm. Zimmerman & Sons, Mc Nabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, Kuper Bros., Bellevue, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, Lake City, Ia.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, B. F. Danford, Ord., Neb.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Iowa.
Feb. 5, Swan & Ellis, Indianola, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 10, M. E. Merfield & Sons, Greene, Iowa.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Koenig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, A. D. Freed, Kelley, Iowa.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.
Feb. 24, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.
Mch. 12, H. D. DeKalb, DeKalb, Iowa. (Sale at Council Bluffs, Iowa.)
Mch. 19, Roy E. Fisher, Winside, Neb.

Short-horn Cattle.

Nov. 25, J. W. McDermot, Kahoka, Mo.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. T. Judge, Carroll, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.
Feb. 26, W. B. Bonnifield, Ottumwa, Ia.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, Geo. H. Burge, Mt. Vernon, Ia.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.

Hereford Cattle.

Dec. 8, W. E. Hemenway & Son, Steward, Ill.
Dec. 30-31, Mousel Bros, Cambridge, Neb.
Jan. 14, Henry Reimers, Gladbrook, Ia.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9. B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.

Holstein-Friesian Cattle.

Jan. 15, F. E. Zimmerman, Metamora, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Aberdeen Angus.

Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Imported Shire Mares.

Dec. 9, J. A. Sage, Ankeny, Iowa.
Dec. 11, Trumans' Pioneer Stud Farm, Bushnell, Ill.

DATES FOR LIVESTOCK SALES.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri, Kansas and Oklahoma. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern and western Nebraska. Address 145 So. 38th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 401 Washington Building, Madison, Wis.

FIELD NOTES.

August Hager, Avoca, Iowa, offers some good boars for sale on page 39.

Silas Igo, Indianola, Iowa, has a few very choice Duroc Jersey boars for sale.

Chester White boars are advertised for sale by Wm. Stoll, LeMars, Iowa, on page 38.

C. F. Sealock, Neola, Iowa, offers immune Chester White boars for sale on page 38.

W. T. McLaughlin, Manson, Iowa, offers Poland China boars for sale on page 36.

Immune Chester White boars are offered for sale by Earl Bloom, Bridgewater, Iowa.

S. J. Philson, Harlan, Iowa, is offering some good Chester White boars for sale on page 38.

Geo. C. Everts, Audubon, Iowa, is offering a splendid line of immune Duroc Jersey boars for sale.

Cholera-immune Berkshire boars are advertised for sale by Fred Divelbess, Logan, Iowa, on page 38.

L. C. Reese, Prescott, Iowa, offers choice and well-bred Chester White boars for sale on page 38.

C. M. Russell, Carroll, Iowa, is advertising some splendid Aberdeen Angus bulls for sale on page 34.

Forty-five immune Poland China boars are advertised for sale by C. H. Porter, Eagle Grove, Iowa, on page 36.

Fox Terrier dogs are advertised for sale by E. B. Bohlwing, Greene, Iowa, in his advertisement on page 16 of this issue.

Fall and spring Chester White boars all cholera proof and immune, are advertised for sale by John F. Holst Jr., Denison, Iowa, on page 38.

A. L. Freeman, Oakes, N. D., has forty-five head of steers weighing 1,050 pounds each, which he is offering for sale on page 32 of this issue.

Write J. S. Snethen, Davis City, Iowa, if in the market for a good Duroc boar or some gilts. His are bred right and will make good. See page 38.

High-grade Holstein cows and heifers are for sale by W. C. Kenyon & Sons, Elgin, Ill., who can supply you one or a car load. See page 18.

J. L. Barber, Harlan, Iowa, one of the best known Chester White breeders in the state is offering some corking good immune boars for sale on page 38.

Twenty-five good Duroc boars are advertised for sale by E. A. Calkins, Ruthven, Iowa, on page 39. He is offering a very choicely-bred lot of boars.

S. P. Freed, Ames, Iowa, breeder of Duroc Jersey hogs, has for sale a few spring boars by the champion Freed's Colonel, which he will dispose of at reasonable prices.

U. G. Davidson, Algona, Iowa, is offering a few good Crimson Wonder boars for sale. Write him about these at once. His advertisement appears on page 38.

John C. Nyrup, Harlan, Iowa, offers some splendid Poland China boars for sale at $25 each. Send him an order for one of these boars at once and he will send you a good one. Se page 36.

Martin Nelson, Cambridge, Iowa, has an excellent herd of Aberdeen Angus cattle and one which is rapidly assuming proportions which must soon demand the attention of those who purchase breeding animals.

J. W. Fisher, Grinnell, Iowa, advertises Chester White boars and gilts of February and March farrow for sale. They are sired by Dock 22313, he by Model Boy by Modeler. The advertisement appears on page 32.

John C. Miller, Harlan, Iowa, one of the oldest and most noted Berkshire breeders in the state offers some good boars for sale on page 38. He has both fall and spring boars. Send him an order at once if you want Berkshires.

Sorghum syrup made by the Ft. Scott Sorghum Syrup Company is advertised on page 24. Particular pains is taken in the manufacture of this syrup and in its preparation for market to insure a pure and refined product. It is suitable for all household purposes. Grocers generally have it for sale. Send 5 cents for a sample can of Farmer Jones Syrup and recipe book that is valuable to every house keeper. Address Ft. Scott Sorghum Syrup Co., Ft. Scott, Kan.

If you want an immune Chester White boar, write C. F. Sealock, Neola, Iowa. His advertisement appears on page 38.

Dan Jacobsen, Gilbert, Iowa, breeder of Poland China hogs, will hold a public sale of brood sows on the 4th of February.

A. D. Freed, Kelley, Iowa, claims November 18th as the date of a public sale of Duroc Jersey brood sows. Later announcements in this paper will give details.

H. L. Faulkner, Jamesport, Mo., the man who put the spotted Poland China hogs back on the map can furnish breeding stock of most any desired age. See advertisement on page 37.

Trappers need the free trappers' book advertised on page 11. It tells how to catch fur-bearing animals, how to dress their pelts and gives other information of interest and value to trappers. It is free. Write for it to I. Abraham, 213 N. Main St., Dept. 136, St. Louis, Mo.

The advertisement of Willard, Son & Co., on page 25 advises our readers that the firm in question is prepared to do tanning of all sorts promptly and in a satisfactory manner. For catalog or prices on tanning and the making of coats and robes, address Willard, Son & Co., Marshalltown, Iowa.

J. A. Sage, Ankeny, Iowa, announces a public sale of twenty-two head of Shire horses to take place at his farm near Ankeny on the 9th of December. There will be one imported mare in the bunch. All others are American-bred and all recorded. Additional information will appear in a later issue of this paper.

Des Moines Tanning Company invites the shipment of horse or cow hides and offers them up into good, soft, pliable coats, robes and rugs. The articles which they make are proof against moths and water proof as well. A free book tells all about it. Address Des Moines Tanning Co., Dept. A, Des Moines, Iowa. See page 11.

Detroit kerosene engines are advertised on page 9. The Detroit boasts of simplicity and power peculiar to itself. It runs cheaply and furnishes reliable power. In order to introduce it into new territory special prices are offered to the first buyer. For these special figures and additional information write to Detroit Engine Works, 74 Canton Ave., Detroit, Mich.

On the 3d of February, C. A. Rosenfeld, Kelley, Iowa, will hold his annual sale of Poland China sows. Mr. Rosenfeld's last winter sale was a remarkably successful one and the class of animals reserved for the coming sale have equal merit. The herd has been immuned by the simultaneous process and are otherwise in perfect health and thrift.

5-A horse blankets have, after years of practical use, become the accepted standard for horse clothing. They are strong and heavy, warm and made to fit. These blankets are advertised on page 26. They are sold at very low prices. A booklet showing blankets in colors and giving full descriptions may be obtained by writing to Wm. Ayres & Sons, Philadelphia, Pa.

The illustration of the Humane Check Rein on page 20 shows one of the most perfect devices for horsemen that has ever been invented. It prevents the breaking of overchecks, prevents sore mouths and keeps the animal in the natural condition which insures best service. It is sent anywhere postpaid for $1.00. Send orders to Humane Check Rein Company, Box I-A, Welch, Okla.

In the last issue of this paper, a field note concerning the Poland China herd of M. G. Arnold & Son stated that spring boars were offered at from $20 to $25 per head. This was an error as, although the pigs are being sold at unusually low prices, we should have said from $20 to $35 each. Our readers will note this correction. Address inquiries to M. G. Arnold & Son, Strawberry Point, Iowa.

Ring Bros., Newton, Iowa, are offering for sale cholera immune Poland China boars that have plenty of bone, length and quality and are well marked. They are largely of March farrow and weigh from 175 to 225 pounds in nice breeding condition. These gentlemen guarantee satisfaction and are pricing the boars at from $20 to $30 each. See page 32 and when writing kindly mention The Homestead.

Iowana Farm Berkshires are bred along champion lines, being sired by champion boars, are the strong, growthy, prolific kind, and every one has received the simultaneous treatment for immunization against cholera. Buyers have a large number from which to make selections, and can secure boars and gilts not akin. The advertisement appears on page 38 and any desired particulars can be secured by addressing the manager, J. L. Thatcher, Davenport, Iowa.

In his advertisement on page 32, W. B. Seeley informs our readers that he has for sale five choice Aberdeen Angus bulls that are about one year old. These are good ones, as might well be expected from the Seeley herd. Mr. Seeley began breeding Aberdeen Angus cattle in 1895 and since that time he has had a number of noted prize-winners in his herd. One of these was Second Mayor of Estill, a stall companion to the noted Gay Lad. Another was Black Knight of Estill 9th, an animal which when thirteen months old cost $2,000. Black Bird Ito, still another, was the junior champion bull of the World's Fair in St. Louis. At the same time Mr. Seeley showed the wonderful champion cow, Vala, which he was unfortunate enough to lose in shipment shortly afterwards. The herd carries animals of such noted families as Queen Mothers, Ericas, Easter Tulloch Jeans, Prides, and Blackbirds. Write for prices and other information. Address W. B. Seeley, Mount Pleasant, Iowa.

Perry O. Brown, Lamoni, Iowa, is advertising some excellent Duroc Jersey boars sired by Belle's Choice Goods and out of some of the best sows that he owns. They are large, growthy fellows with plenty of bone and Mr. Brown is making attractive prices on them for the next few weeks. See page 39 and write him your wants mentioning The Homestead.

When the Brown fence can be put up at a cost of 13 cents per rod and of a material that performs all of the service required of any farm fence, it looks as if nothing else were required, as fence-building material. The Brown people pay freight. They mail a fence catalog and sample to those who mention this paper. Address Brown Fence & Wire Co., Dept. 34, Cleveland, Ohio. See advertisement on page 8.

Quaker City Feed Mills advertised on page 11 may be had on ten days' free trial at the risk of the seller. This is a liberal offer but after nearly half a century of experience the Quaker City people evidently know what they are about. They make twenty-three styles of grinders of all sizes and adapted to all work. For information as to free trial offer address The A. W. Straub Co., Department G, 3723 Filbert St., Philadelphia, Pa.

Hart Bros., Osceola, Iowa, recently arrived from France and Belgium with a splendid importation of Percheron and Belgian stallions that are hard to beat. Great big two year olds, some of which will weigh 1,900 pounds, good colors, with bone and plenty of quality. If you are interested it will pay you to see this importation at once. In writing them kindly mention this paper.

Farm Cushman engines of the four horse-power sort come as near filling all the requirements for farm power as any engine that has been produced. It was the original binder engine and the necessities covering its adaption to that purpose were available in making it suitable to other light and heavy farm work. New catalogs tell all about it. Address Cushman Motor Works 2029 N Street, Lincoln, Neb. See page 8.

The Sandwich Motor Presses advertised on page 13 have become a standard of perfection for hay-baling people. The engine and the baler are mounted on one truck, affording a complete outfit in a limited amount of space. Everything tends to increase its capacity and economy. A little book entitled "Tons Tell" gives the whole story. A postal card will bring it to you. Address Sandwich Mfg. Co., 170 A St., Sandwich, Ill.

L. I. Handlon, whose Shamrock herd of Chester White hogs is advertised on page 32, advises us that he still has for sale fall boars and spring pigs of both sexes. Mr. Handlon's herd has been built up from foundation material of the most popular and profitable sort and the animals which he sends out have always proven acceptable to his patrons. In addition to that, he quotes farmers' prices to those who will buy quickly. Address inquiries to L. J. Handlon, Route 3, Farmington, Iowa.

As a season for fence building the present leaves nothing to be desired and the only thing to be considered is the kind of fence to put up. This question may be solved if the fence builder investigates the merits of the Pittsburgh perfect fence, an illustration of which appears on page 15 of this paper. The Pittsburgh is welded by electricity which insures holding its form and lasting qualities to the very limit. Read the advertisement. Send for catalog and price list. Address Pittsburgh Steel Co., Pittsburgh, Pa.

Notwithstanding the fact that farmers have been buying automobiles with wonderful freedom, statistics present the astonishing information that more buggies than ever are being sold. This of course applies to high-class buggies such as a Kratzer, an announcement of which appears on page 8. Dealers everywhere sell the Kratzer. It is fitted with all the up-to-date appliances, with a wind shield that gives protection from winds and rains and is sold at a price within the reach of every buyer. For free catalog address Kratzer Carriage Co., 104 W. 1st St., Des Moines, Iowa.

Carl A. Rosenfeld, Kelley, Iowa, has recently placed at the head of his herd of Poland Chinas, the mature hog, Orange Jumbo. This animal is a son of the noted Big Orange and his dam was a big sow that had not only size but quality and popular blood lines to her credit. Orange Jumbo was exhibited at the late Sioux City Fair and was a very popular candidate for higher honors than the judge accorded him. He has been at the head of the Jensen herd at Newell, Iowa, and has been proven a breeder of extraordinary merit. In the herd of Mr. Rosenfeld he will no doubt make a new record.

In previous seasons the announcement of Mickle Fur Coat and Robe Co., have been prominent features in our advertisement columns. The initial advertisement of this season will be found on page 25. It is an interesting advertisement because it offers an opportunity for our readers to obtain caps, gloves or mittens free of cost. The Mickle Company tan all kinds of hides and make them up into coats or robes as may be desired. They do this in a strictly first-class manner, promptly and at very low prices, and in addition offer the free articles as above mentioned. For these special prices.

address Mickle Fur Coat & Robe Co., Mason City, Iowa.

J. E. Beckendorf, Walnut, Iowa, offers Hampshire boars for sale on page 35.

Fred Sexsmith, Orient, Iowa, advertises some good Poland China boars for sale.

A. W. Stewart, Harlan, Iowa, advertises Poland boars at $20 and $25 on page 37.

Berkshire boars are advertised for sale by H. L. Kemp, Harlan, Iowa, on page 38.

P. J. Sheridan, Vail, Iowa, offers good bargains in Chester White boars on page 38.

F. O. Peterson, Galva, Iowa, offers some splendid Hampshire boars for sale on page 35.

W. H. Barr & Son, Villisca, Iowa, advertises twenty head of immune Poland China boars for sale.

Immune Poland China boars are advertised for sale by C. M. Pederson, Dunlap, Iowa, on page 37.

P. W. Weberg, Denison, Iowa, is offering some great bargains in Duroc Jersey boars on page 39.

J. M. Sheehan, Stuart, Iowa, has twenty head of big-type Poland China boars for sale. Read his advertisement on page 37.

Chas. W. Crosier, breeder of O. I. C. hogs at Juniata, Neb., has an advertisement on page 32 which will interest those in search of strictly high-class spring pigs at reasonable prices.

James Lawler, Clare, Iowa, is offering some great bargains in Poland China boars on page 37. Just read his advertisement and write him. He certainly offers some splendid bargains.

A good two-year-old Percheron stallion and a yearling are offered for sale by H. D. Clore, Lucas, Iowa, on page 33. He will take $1,000 for the two and they are great bargains at that figure.

If you want a good Chester White boar don't fail to write W. H. Dunbar, Jefferson, Iowa. He has a lot of good ones and he is making special prices to close them out. His advertisement appears on page 38.

The Percherons and Belgians advertised on page 33 by V. W. Harms, Fairbury, Ill., are the weighty kind, with bone and quality and will be priced worth the money.

Galloway cattle, bulls and females, strong in the blood of McDougal 4th of Tarbreoch, are for sale by James P. Milliken, Media, Ill., whose advertisement appears on page 34.

Chas. Escher & Son, Botna, Iowa, are offering some great bargains in Aberdeen Angus cows and heifers on page 34. They also have a very choice lot of young bulls for sale. Write them at once and mention The Homestead.

Some extra good large-type Poland China boars are offered for sale by James Cockerton, Whiting, Iowa on page 37. He is pricing these where they will sell. Write him about them at once or go and see them yourself.

Stewart's immune Chester White boars—He has one of the best bunches of boars ever seen, and they are all immune. Order one of these right away and you will be sure to get a good one. His advertisement appears on page 38.

W. R. Adams, the raw fur man at Fremont, Nebraska, buys raw furs of all sorts and will send price list No. 53 to every reader of this paper who asks for it. Address W. R. Adams, Fremont, Neb. See advertisement on page 11.

In an advertisement on page 11 the Bayer Tanning Co., offers to tan a hide and make a good coat from it for only $12.50. Read the advertisement. For price list and other facts write to Bayer Training Co., 105 S. W. 9th St., Des Moines, Iowa.

Kimball organs are advertised on page 24 at factory prices. They are sold to farmers on a free, thirty-day trial offer at a saving of from $20 to $50 in price and on most reasonable terms. For new catalog write to W. W. Kimball Co., 3738 Kimball Hall, Chicago, Ill.

R. B. Burt, Coggon, Iowa, breeds Chester White hogs and has for sale an excellent lot of boars of spring farrow. These he is offering at unusually low prices, quality considered. The blood lines are right and the pigs are otherwise good enough to satisfy any buyer. See page 38.

Among the growing concerns employed in the production of devices leading to better farming the X-Ray Incubator Co. stands in a prominent position. Since the incubator has become a necessity on every farm the main question with reference to it has been the right one to buy. The X-Ray people began operations a few years since at an insignificant little town and with no other equipment than an ordinary carpenter shop. The excellent manner in which the X-Ray performed its work led to a thorough appreciation and a growth in the demand which at once forced the company manufacturing it to increase facilities for its production. Then the factory was moved to a larger town, but the progress of advancement has been such that still another move to a city better adapted to manufacturing and distributing purposes became a necessity. Lately the X-Ray factory has been moved to Des Moines, Iowa, and enlarged so that the X-Ray can be produced in sufficient numbers to supply the great demand. It is said of the X-Ray incubator that one gallon of oil will make a complete hatch. This will be recognized as a remarkable saving of oil and time as compared with other hatching devices. There are, however, many other important features which buyers should investigate. They may be learned by writing to X-Ray Incubator Co., Des Moines, Iowa.

Four good young Scotch bulls are advertised for sale by G. H. White, Emerson, Iowa, on page 35.

Hampshire boars and sows are advertised for sale by E. S. McCandless, Thurman, Iowa, on page 35.

M. P. Hancher, Rolfe, Iowa, is offering some great bargains in cholera immune Poland China boars on page 36.

Short-horn catalogs compiled and printed by Frank P. Healy, Bedford, Iowa. See advertisement on page 35.

Galloway cattle and Oxford Down sheep are advertised for sale by C. S. Hechtner, Charlton, Iowa, on page 34.

Thirty immune Poland China boars are advertised for sale by L. R. McClarnon, Braddyville, Iowa, on page 37.

Chester White boars, cholera proof and immune, are offered for sale by W. E. Gaffey, Storm Lake, Iowa on page 38.

Read the advertisement of H. S. Allen, Russell, Iowa, on page 39 if you are on the market for some right toppy Duroc boars.

Poland China boars and sows are advertised for sale by Henry Moll, Garner, Iowa, on page 36. He offers a good herd boar, a March yearling and some good spring boars and gilts. Read his advertisement on page 36 and write him about these at once.

John H. Fitch, Lake City, Mo., offers a choice lot of Poland China boars for sale at $25 to $40. These are strictly large type with quality combined, and they are good ones. Write him about these at once. His advertisement appears on page 36.

James Cockerton, Whiting, Iowa offers twenty good boars for sale on page 37. Mr. Cockerton is one of the best breeders in western Iowa and he always breeds them good. He is offering this crop at farmers' prices in order to close them out.

Farmers living on the lines of the Chicago Great Western Railway will be interested in the advertisement of that road which advertises permanent positions on page 21. The advertisement is something more than an advertisement, it is an argument in favor of obtaining such education as is available at the great international livestock exposition which takes place at Chicago from November 29th to December 6th. The Chicago Great Western offers excellent train service to and from Chicago on the occasion referred to. For information or rates address A. L. Craig, General Passenger Agent, Chicago, Ill.

The illustration of the Old Honesty blanket on page 10 shows the reasons for the popularity of that blanket. Other reasons are their extra wearing qualities and reasonable prices. Send orders or request for information to Bemis Blanket Co., Omaha, Neb.

W. J. Martin, Darlington, Wis., is advertising Chester White boars on page 32 of this paper. These are March and April pigs and will be sold at the low price of $20 each. They are in perfect health and from a farm that has had no case of disease in twenty-five years. Any additional information may be obtained by writing to H. J. Martin, Darlington, Wis.

J. P. Franklin, Grand Island, Neb., wishes to buy home-bred or imported Percheron or Belgian stallions or mares. They must be registered and sound and from two to five years old, and weigh 1,700 pounds or upwards. Readers of The Homestead who can supply Mr. Franklin with the animals desired should write him, giving full description and their lowest cash price.

Guarding against the introduction of contagious diseases by strengthening vitality and condition is the popular method of saving hogs. Perhaps the most important detail is ridding the animals of worms. For this purpose Sal-Vet, a medicated salt, has superior merits. It prevents the lowering of vitality which leaves hogs in a poor condition to resist disease. It is particularly serviceable at the time when new corn is being fed. It has a great many purposes which we cannot take space to describe. These, however, may be obtained if the reader will fill out the coupon in the advertisement on page 40 and forward it to S. R. Feil, president the S. R. Feil Co., Cleveland, Ohio.

American axes are advertised on page 12. The wood-choppers of Australia, South America, Northern Europe and Africa buy American axes in preference to others that cost only half as much. American axes won every one of the numerous big wood-chopping contests held in Australia. American axes are sold in every country in the world. They have cut through tariff walls everywhere, outselling cheaper home products in all foreign countries. The series of advertisements of this axe which appear in this paper tell a remarkable story. The various brands of American axes cannot fail to suit the demands. Dealers have them for sale. They are made by the Americanax & Tool Co., Glassport, Pa.

R. W. Halford, Manning, Iowa, is offering some splendid fall and spring Poland China boars for sale on page 37. These are sired by the 1,092-pound Long Jumbo, the great prize-winning boar, Mabel's Wonder, and the 1,000-pound Chief Price 2d. Go and see these boars at once.

Thirty-four head of good Hereford cattle, including three daughters of Masquerada, the noted breeding bull, Prince Star Grove and nine of his sons, will be sold at Steward, Ill., Monday December 8th, by W. E. Hemenway & Son. Particulars will appear later. Catalogs will be ready November 15th.

Fetzer's flexible roller does all the work that the old-fashioned roller does and still more than that. It prepares a perfect seed bed on every foot of ground. The manufacturers offer to guarantee that it will pay its way the first year. Send for descriptive catalog No. 117. Address Wm. Fetzer Co., Springfield, Ill. See advertisement on page 8.

There is, without doubt, no publication of any sort which approaches the weekly Youth's Companion as popular reading for old and young. It covers the entire range of fiction, advertising and entertainments. It presents the latest developments in current events and science. It is clean from every point of view and adapted to family reading. An advertisement appears on page 22. On receipt of $2.00 the publishers send the Youth's Companion for one year and up to January 1914, and in addition send a free copy of the Youth's Companion practical home calendar for 1914. Send orders to the Youth's Companion, Boston, Mass.

The advertisement of Cypress lumber which will be found on page 14 offers half a dozen reasons why the use of Cypress is advisable and economical in the construction of farm buildings. The application of cypress lumber to the improvements on the farm is wise. The manufacturers in order to promote the use of cypress in all available construction have prepared five new books dealing with silo making, barn building, farm needs and United States government report on cypress. Any or all of these books may be had free by filling out the coupon in the advertisement and forwarding it to Southern Cypress Mfrs.' Ass'n., Hibernia Bank Bldg., New Orleans, La.

When it comes to gasoline engines at bottom prices the offer of the Ottawa Mfg. Co., on page 13, is worthy of consideration. A one and one-half horsepower engine for $24.75 is surely an attractive offer. The factory sends out thirty-four other sizes shipped anywhere on trial. A forty-eight-page catalog may be obtained by writing to Ottawa Mfg. Co., 511 King St., Ottawa, Kan.

In the purchasing of hogs for breeding purposes, it is well to keep in mind the value of immunity from disease secured from the simultaneous vaccination. Animals carrying this protection are offered for sale by George T. White in his advertisement on page 32. Mr. White is offering spring boars for sale. A good many of these are the get of Jumbo Wonder, one of the best sons of the great pair, Crimson Wonder Again and H. A.'s Queen. On the side of the dam there are Ohio Chief and Golden Model strains. Mr. White's herd was given double treatment by government experts and are not proof against cholera, but right in every way. Write him for prices. Address George T. White, Dallas Center, Iowa.

J. C. Huckstep, Eolia, Pike county, Mo., has continuously improved his Fairview jack and jennet farm and the quality of his herd of mammoth bred jacks and jennets. The thiry years Mr. Huckstep has spent in breeding and handling mammoth jacks has been devoted to the building of the breed and his efforts have been directed toward the improvement of bone, feet and quality without sacrificing size. The visitor at the Fairview Farm is impressed with the class of stock he finds there and if he is looking for jacks or jennets standing from fourteen and one-half to sixteen hands high, perfectly marked and with heavy, flat bone, good heads and ears he will not be disappointed. Many of these are jacks bred at the farm, others are the very tops Mr. Huckstep has gathered from the smaller breeders in Missouri and Kentucky who breed the very highest class of stock. Each of these are jacks Mr. Huckstep has tried so that he can stand squarely behind them with the same guarantee as he places on every animal he sells. We recently inspected the stock Mr. Huckstep has for the trade this year and we are pleased to say to our readers that Mr. Huckstep has the very highest type of jacks and jennets for the trade. In all, sixty head to select from. They are priced right and by a man who values his word so highly that every animal must be as represented. He guarantees them to be so, and Mr. Huckstep is a gentleman whose guarantee is as good as can be had. Those who buy now will find his prices attractive. Note page 33 for Mr. Huckstep's advertisement and when writing him kindly mention this paper.

Every farmer realizes that absolute care will save many dollars every year. As means of insuring this accuracy Ropp's New Calculator stands in a class by itself and unequaled from any point of view. It tells all about measurements, interests, prices of grain, farm stock or wages. It tells how to learn the contents of silos, cisterns and granaries. It answers every question involving the use of figures that can come up in the business of any farm. The regular price of this book is 50 cents, but it can be obtained free by addressing a request to the Keystone Steel Wire Co., 510 Industrial St., Peoria, Ill. An advertisement of the Square Deal fence made by this company will be found on page 8.

Red Polled Bulls for Sale.

If you want a good young Red Polled bull, read the advertisement of Frank P. Clouss, Clare, Iowa, on page 35. He has some corking good ones and at prices that anyone can afford to buy. Write him about these at once.

Schug's Immune Boars.

Forty choice Poland China boars are advertised for sale by Robt. A. Schug, Coleridge, Iowa, on page 37. These are sired by the grand champion boar, King Mastiff, Great Columbus, Farmer's Goliath and Nebraska Model. He is making special prices on these in order to close them out within next thirty days.

L. A. Matern, Auctioneer.

We desire to call attention of Homestead readers to the card of L. A. Matern, Wesley, Iowa, who is one of the best livestock auctioneers in northern Iowa. He has a few open dates this winter and will be pleased to hear from those contemplating making sales. He is all right and his work will please, and he gets the money. Write him for dates. See page 36.

Zimmerman's Immune Boars.

Did you order one of those Pawnee Price boars from W. E. Zimmerman, Neola, Iowa? A boar sired by this great son of Smooth Price is the thing just now, and they are all cholera immune. Mr. Zimmerman has some good ones and he is making special prices to close them out within the next thirty days. When writing him mention The Homestead. See page 36.

Jumbo The Great Polands.

Orville O. Jones, York, Neb., is offering immune Poland China boars either sired by, or out of sows by the great boar, Jumbo The Great. This is one of the best half dozen in the state, and it is worth something to buy pigs of his breeding. Mr. Jones sure has the good ones to sell and farmers' prices will take them. Do not overlook this opportunity, but order without delay. See advertisement on page 37.

Saunders Wants Short-horns.

The breeder of Short-horns who has some good cattle that he would like to sell in a December sale should write to C. A. Saunders, Manilla, Iowa. He wants a few more cattle for this sale and he would like to hear from those who want to consign right away. If any of our readers have cattle that they would like to sell in this sale they should get in touch with Mr. Saunders at once.

Keep Offers Great Boars.

Those of our readers who are wanting a good large-type Poland China boar should lose no time in writing Wm. Keep, Atlantic, Iowa. He has the best lot of big-boned boars he has ever raised and he is making special prices on these in order to close them out. You can't go wrong if you send Wm. Keep an order. You will be satisfied with these boars as they are right in every way. Write him at once and mention The Homestead.

Schmieder's Poland China Boars.

On page 32 John Schmieder, Remsen, Iowa, offers thirty-five head of choice Poland China boars sired by his great boar, Blue Valley Chief and Pawnee Defender. This is the last chance breeders will ever have to get Blue Valley Chief boars as the old hog is dead. He was one of the greatest boars in northern Iowa, and a splendid breeder. He also offers three good fall boars for sale. These boars have all been vaccinated and are immune. You can't go wrong by ordering one of these boars as they are right in every way. We, therefore, say to you to get busy and order one of these at once. When writing him kindly mention The Homestead.

William Crownover's Imported Stallions and Mares.

William Crownover, proprietor of Paramount Stud Farm, Hudson, Iowa, has returned from Europe with a high-class lot of Belgian, Percheron and Shire stallions and mares and is now in position to supply critical judges with a stallion or mare of superior merit. Included in the imporation is an elegant two-year-old Shire filly that was a prize winner in England and will be shown at the International Stock Show in December by Mr. Crownover, who will exhibit two car loads of stallions and mares. Mr. Crownover imported a number of two-year-old Belgian and Percheron stallions that are by far the best lot of two-year-olds he has ever had on the farm and in fact it is very seldom you see as many good two year olds in one lot. They are heavy boned, rugged, drafty fellows that will get large enough to suit anyone. Mr. Crownover had the champion Belgian stallion at the Iowa State Fair

NEXT WEEK'S SALE PROGRAM

Monday, November 17	Holstein-Friesians, Iowa Holstein-Friesian Sale Co., Waterloo, Iowa.
Tuesday, November 18	Holstein-Friesians, Iowa Holstein-Friesian Sale Co., Waterloo, Iowa.
Wednesday, November 19	Short-horns, C. E. Gibbs, Klemme, Iowa.
Thursday, November 20	Short-horns, A. H. Metler, Weldon, Iowa.

this year and he will make a very strong show at the International. The stallions and mares which Mr. Crownover will show at Chicago are a very high-class lot and are a credit to his ability as a judge and breeder. If interested in something good write Mr. Crownover your wants kindly mentioning The Homestead. See page 34.

King Gano Boars For Sale.

Those of our readers who want a right good Duroc Jersey boar should write O. E. Osborn, Weston, Iowa. He has four corking good spring boars sired by King Gano his first-prize junior yearling boar at Des Moines this fall and he tells us that every one of these is a herd boar proposition. Write or phone him at once about these boars and kindly mention The Homestead.

Hereford Bulls For Sale.

Three Polled Hereford bulls and a couple of good horned bulls are offered for sale by Parmlee & Pierson, Villisca, Iowa. One of these is a son of Admiral C., another is sired by Polled King 3d, and a good young bull sired by Polled Major. These parties have these bulls for sale, and will make prices on them where they will sell. Write them at once or go and see them. When corresponding with them kindly mention The Homestead.

Miller's Short-horn Importation.

Short-horn breeders who are wanting good young Scotch bulls or heifers, should go at once and see R. O. Miller, Lucas, Iowa, and inspect his 1913 importation. These cattle are now on his farm and are offered for sale at private treaty. It is the best importation of Short-horns that has been brought from Canada in years. Get busy and go and see these cattle at once if you want to get a chance at the best. When you write Mr. Miller kindly mention The Homestead. See page 32.

Oldsen's Short-horn Sale.

C. A. Oldsen, Wall Lake, Iowa, will make a public sale of forty head of Short-horn cattle at his farm on December 10th and he will sell a splendid lot of cattle. There will be thirty-one head of cows and heifers and nine bulls. A number of these will be Scotch cattle of the very best strains and his offering individually speaking will be of a high order. Drop him a card and have him place your name on his mailing list for catalog. Kindly mention The Homestead when writing him.

Richardson's Short-horn Sale.

On December 9th, J. A. Richardson, Wall Lake, Iowa, will make his annual sale of forty head of Scotch and Scotch-topped cattle, and he will again have a nice offering for those who attend his sale. He will sell twenty-three head of cows and heifers and seventeen young bulls. Half the offering are Scotch cattle of the very best strains. We will have more to say of his offering in future issues. In the meantime drop him a card and have him send you a catalog as soon as they are out. When writing him kindly mention The Homestead.

Short-horn Bulls, $100 Each.

The Lockridge Fine Stock Farm, York, Neb., owned by Orville O. Jones, of that place is offering three very choice Short-horn bulls at the low price of $100 each. These bulls are mostly sired by Pleasant Lawn Knight, one of the largest and best breeding bulls ever used in central Nebraska. He was an exceptional good sire and his bulls have bred on in fine fashion. We would suggest ordering one of these bulls immediately. They are priced well worth the money, in fact such bulls are now selling at auction in Nebraska for around $200. Kindly mention The Homestead when you write. See advertisement on page 37.

Van Patten & Son's Durocs.

Those of our readers looking for a good boar from a good herd will do well to write Van Patten & Son, Sutton, Neb., or if supplied with a boar, remember that next February these gentlemen will sell a lot of sows and gilts that are sired by Uneeda Crimson Wonder. This is one of the very best Duroc boars in existence in the West, or in fact anywhere. His equal as a sow sire is seldom found. His daughters are now in many herds and they are the most highly prized of anything to be had. If interested in a boar mention The Homestead and write as above, or if interested in the sale, keep it in mind and watch this paper.

Metier's Milking Short-horn Sale.

On Thursday, November 20th, at Weldon, Iowa, will be the day when A. H. Metier will sell forty-four head of his milking Short-horns and it will be a splendid place for farmers and breeders to secure some of these splendid Bates cattle. The Metier herd is one of the oldest in the state and has been one of the few herds that has staid with the milking Short-horns through all these years. Quite a number of the cattle in this sale are of the Duchess of Oxford and Waterloo tribes, two of the most noted families of all the Bates tribes, and these two tribes have always been sought after by the leading Bates breeders. There are a number of these Waterloos and Oxfords in this sale that are straight-bred Bates and some of these are daughters of those two noted bulls, Duke of Wapsie and Walnut Duke of Hazelhurst 7th. Another splendid family in this sale is the Golden Pippens or Julia Wards, and there are a lot of them in this sale. This family is one of the highest prized families in this herd, and he and his father have bred them for over a quarter of a century. He is selling some grand young heifers in this sale and some splendid young bull calves. The herd bull, Arabella's Crescent Knight, a richly-bred Scotch bull and a grand good breeder will also be sold and he is a splendid bull for some man who wants a tried sire and a good one. This is a roan bull and is a son of Imp. Crescent Knight, a bull formerly used in the Cargill herd of Canada and later in the Robert Miller Herd at Lucas, Iowa. He is an eight-year-old bull but he is in splendid condition and he is a most excellent breeding bull. If you want this bull or you want some of those milking Short-horns make it a point to be at the Metier sale. When writing for catalog kindly mention The Homestead.

Guernsey Cattle Sale.

The fifth annual sale of Guernsey cattle from Fairview Farm of Des Moines is advertised on page 18. Sale takes place Thursday, November 20th. It will include ten head of registered bulls, thirty head of yearlings and two year-old heifers and thirty high-class cows. Fairview Farm has a high reputation as a dairy farm and is a source of supply of high-class dairy cattle. The sale will be an excellent one for buyers who want good milking cows without going to the expense of registered cattle. They are in perfect health and thrift. A tubercular certificate will be supplied to buyers on sale day. Further information can be obtained by writing to Wilcox & Stubbs, 1401 Grand Avenue, Des Moines.

Immune Boars and Sows.

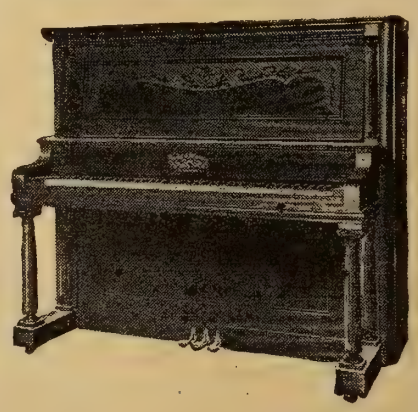
On page 32 A. W. Joy, Herman, Neb., advertises twenty-one head of Poland China gilts that will average 325 pounds all vaccinated and immune and he will sell them open or will breed them, and he is offering them at $40 and $50. They are sired by Hadley Golddust, Henry Expansion, Half Ton Wonder and Sampson, the latter a son of old Pawnee Lad and old Anna Price. These gilts are strictly choice. We have seen them and we have seen few better this season. He also offers ten choice brood sows at from $50 to $75 and fine spring boars at $30 each. These are all immune and they are all right in every way. Mr. Joy is planning on moving away and he is making the price on these where they will sell. Write him at once and mention The Homestead.

Thos. F. Miller Buys New Boar.

J. A. Jackson, Raymond, Neb., recently sold the big boar advertised in The Homestead to Thos. Miller, York, Neb. This is one of the best individual, big-type boars within the state. He is also a good sire, in fact an extra good one. This boar is sired by O.'s Jumbo by Wade's Jumbo and his dam is one of the best sows ever sired by Big Tecumseh. We were surprised that a boar of the excellence of this boar did not sell sooner. It is seldom indeed that a boar of this kind is for sale at all, and we would have thought that there would have been a dozen orders for him within a fortnight, but one thing is certain, and that is that he could not have found a better home than at Cedarbank Farm. Mr. Miller will have some sows bred to him in his winter sale. Mr. Miller also has some young boars, immune ones, for sale.

The Fuehr & Stemmer Piano.

Music in the farm home has a bigger influence in the moral and intellectual advance of the farm than any other one item. Music, it is said, is the language of emotions, upon the health



of which the attainments of civilization rest. There is probably no class of instrumental music which equals in popularity that of the piano. For that reason no farm home should be without a piano and none should be purchased without the purchaser having fully satisfied himself as to the character of the instrument. In this connection the Fuehr & Stemmer piano, which is advertised on page 7 of this paper, is recommended for mature consideration. This piano has become famous after twenty years of actual service. It has become a popular favorite in institutions devoted to musical instruction, because it possesses all those points which go to make up a good and serviceable piano. It might be said in this connection that this piano is in use in the Wartburg College, Waverly, Iowa; Bethany College, Mankato, Minn., Carthage College, Carthage, Ill.; Concordia College, St. Paul, Minn.; St. John's College, Winfield, Kan.; Hebron Academy, Hebron, Neb.; Iowa State Normal School, Cedar Falls, Iowa, and many others. In Bremer county, Iowa, alone 250 pianos of this make are in use. One of the reasons for the popularity of the Fuehr & Stemmer piano is that the manufacturers give a twenty-five-year iron-clad guarantee on the instrument and out of 14,000 sold they have never had a single one returned for any reason. In order that purchasers may satisfy themselves of all the claims made the manufacturers offer to ship a piano free to any reader of this paper on a thirty days' trial. For a copy of the catalog giving terms on this

C. E. GIBBS' SALE

SHORT-HORN CATTLE

SCOTCH AND SCOTCH-TOPPED

KLEMME, IOWA, NOVEMBER 19, 1913

50 Head: 34 Cows and Heifers, 16 Bulls. 50

INCLUDED will be the splendid young Scotch bull, Pride Goods 378193, a son of the well-known Merry Goods, and he is a royally bred Cruickshank Secret. Also a number of young Scotch bulls in the sale. I am listing my best breeding cows and my best show cows, several of which were winners at the fairs this fall. There will be 10 of my choicest heifers in the sale and there will be 15 head of calves at side of dams. Here will be one of the greatest opportunities of the year to buy Short-horn cattle. Col. McIlrath, Auctioneer. Catalog ready. Write for it at once and mention Iowa Homestead. Address

C. E. GIBBS - KLEMME, IOWA

HAVE YOU BEEN WAITING FOR THIS? HERE IT IS.

A Consignment Sale by Some of the Best Breeders in the East

SYRACUSE, NEW YORK, DECEMBER 2-3, 1913

180 HEAD REGISTERED HOLSTEINS 180

Highest breeding. Greatest individuality. Tuberculin tested. Personally inspected. For further information and catalog address

LIVERPOOL SALE AND PEDIGREE CO., LIVERPOOL, NEW YORK.

splendid free offer fill out the coupon in the advertisement and forward it to the Fuehr & Stemmer Piano Co., 18 East 24th St., Chicago, Ill.

Short-horn Bull For Sale.

H. F. Funke, Greenfield, Iowa, is advertising for sale his two-year-old herd bull, Nonpareil Victor, a dark roan son of Violet's Nonpareil and out of Victoria's Lavender by Victor of Evergreen Park 5th. The grand dam is Lavender of Hill Farm 21st by the renowned bull, Imp. Merry Hampton. The imported cow in the pedigree is Lavender 31st by Brampton. Mr. Funke has sold his entire herd of Short-horns and wishes to dispose of this bull. He is a herd bull proposition for some one and the price is very reasonable considering the individuality and breeding of the bull. See page 32 and write or visit Mr. Funke.

Nagles' Chester Whites.

Chester White sows descending from prize-winning ancestors and bred to boars that have been siring winners, can be purchased from E. L. Nagle & Son, Deep River, Iowa. They have about thirty-five gilts that they are breeding to farrow in March. The gilts are bred to Lewis E., one of the great sires of the breed, Col. Evans, an Iowa State Fair winner and sire of winners, Right You Are, the first-prize pig at the Iowa State Fair 1913 and Nagle's Kind, a second-prize pig at the same show. Messrs. Nagle can please prospective purchasers in quality, breeding and price. They have thirty-five fall pigs that they will sell at a reasonable figure. See page 32 and when writing for prices kindly mention The Homestead.

Chester White Herd Boars.

W. A. Hoover, Oskaloosa, Iowa, one of the oldest and best breeders of Chester White Swine in the corn belt, has probably bred as many good herd boars as any breeder in the country. The champion boar at the Iowa and Sioux City fairs and the senior champion at the Illinois State Fair were sons of Mr. Hoover's great herd boar, Wonder, that was first at the Iowa State Fair in 1911 and has proven to be one of the very best sires that Mr. Hoover has ever owned. Mr. Hoover considers Wonder the greatest sire of the present day. At the present time he has a number of fall yearling boars sired by Wonder that are extra good and among them are several that would make high-class show boars for next year's fairs. Mr. Hoover has the goods and his prices are very reasonable. You will find him absolutely square to deal with as he always gives his patrons fair treatment. See page 38 and write him for a herd boar if you want a good one, mentioning The Homestead.

Cooper's Immune Poland Boars.

With this issue of The Homestead, W. B. Cooper, Milford, Neb., is starting an advertisement in which he offers six big, rugged Poland China boars at from $20 to $30 per head. These boars come of the finest big stock, are well grown, immune and all right. Mr. Cooper wants to turn them hence the low price. There is positively no excuse for any one to use a scrub boar this season when good ones may be bought in southern Nebraska for the prices they can this season. They are selling these boars at a small fraction above the market price. This season presents a peculiar condition, for we do not believe that there has been a season in years when a buyer's prospects were so good to sell a high-priced crop of pigs as they are from a sire purchased this season, and then again, there has been no time in the last decade when one could buy a pure-bred boar at practically market price like there is this season. We just want to say that Mr. Cooper's stock is good, and he is a good man to do business with. Mr. Cooper also has Shropshire sheep and S. C. R. I. Red chickens. If interested, address as above and mention The Homestead. See advertisement on page 32.

Polled Durham Cattle Wanted.

In an advertisement on page 32 Birkestrand Bros. announce that they wish to exchange an imported Percheron mare for Polled Durham cows or heifers. The mare is five years old, a beautiful dapple grey, and weighs 1,900 pounds. She is a good worker and has been working every day this summer. She has raised one colt. Breeders who have Polled Durhams which they would care to exchange for this animal may learn full particulars by writing to Birkestrand Bros., Route 2, Cambridge, Iowa.

Lewis' Chester Whites.

The Lewis Chester White herd advertised on page 32 is now offering for sale the principal herd boar, White Cloud 20465. This hog is a great breeder, carrying lots of quality as well as size, length and strong bone. His pigs have proven good sellers. He is a good breder, has a good disposition and is easily handled. He is only offered for sale for the reason that a great deal of his produce will be retained in the herd. He will be sold at reasonable prices. Mr. Lewis also offers fall and spring pigs of both sexes as will be noted in the advertisement. Address inquiries to J. E. Lewis, Brayton, Iowa.

Gasoline Engine Information.

In these days of low-priced farm power every farmer should make it a part of his education to understand gasoline engines from start to finish. Information of this kind may be obtained from a new book on engines which has been prepared by the Witte Iron Works and which will be sent free to any reader of this paper who asks for it. The Witte people manufacture the Witte engines made to burn kerosene, gasoline or gas. Witte engines are portable or stationary. They are sold for cash or on easy terms and in every case on a sixty-day trial. Before buying any engine, however, get a copy of the book referred to. Address requests to E. H. Witte, Desk D, Witte Iron Works Co., 1565 Oakland Ave., Kansas City, Mo. See advertisement on page 19.

Gibbs' Short-horn Sale—Last Call.

In last week's issue we called attention to the forthcoming Short-horn sale of C. E. Gibbs at Klemme, Iowa, on November 19th, and we want to again remind our readers of this important event. He is selling fifty head of cattle in this sale, and they are a well-bred and very useful lot, very largely of the milking Short-horn type. A large per cent of the cows that he is listing in this sale are of the Scotch topped kind on the very best of Bates foundation. It is very seldom indeed that you see so many large, useful cows, with big udders, and with so many calves at foot as Charlie Gibbs is selling in this sale. His chief herd bull is Red Duke, a bull that he secured at a long price over in Wisconsin, and he is a son of Sidelight. This bull was selected because of his breeding and he has a lot of the best milking strains behind him topped out with the very best of Scotch crosses. About fifteen of the cows in the sale will have calves by this bull and a great many of the females are in calf to him. There will be fifteen head of good young bulls in the sale, and there are quite a number of good ones. That splendid young Scotch bull, Pride Goods, a pure white is one of the choicest in the offering. He is a son of the well known Merry Goods, a bull bred by the Bellow Bros., that went to the Cahill herd at $1,000. This young bull

is a Cruickshank Secret and he is a March yearling. His grandsire is champion of Lyndale and his great-grandsire is Imp. Lavender Champion, a bull that made the reputation of the Alex John & Son herd at Bedford, Iowa. This bull is good enough for any breeder to use. He is selling a number of other good young bulls in this sale that will be appreciated by the buyers who attend this sale. The offering is a very practical and a very useful one and it will be a splendid place to lay in a supply of Short-horns. He is listing a nice string of young heifers in this sale also and many of these are out of the best cows he has on the farm. Send for his catalog and kindly mention The Homestead. See page 30.

Buying Lumber on a Business Basis.

During the past season an announcement of the Peter J. Seippel Lumber Compay has appeared in these columns from time to time. This company has for twenty-eight years occupied the position of a money saver to lumber buyers of the West. They are able to quote low prices because of the fact that they are the biggest manufacturers of lumber in he middle West. Taking material from the woods and working it up in their own mills and selling direct to farmers eliminates a great many items of cost that the ordinary lumber dealer must figure in. If the buyer purchases in car-load lots they offer to pay railroad fare both ways so that the selection of material may be made in person. The company is located at Dubuque, which has for many years been a great central manufacturing and distributing center for lumber. Those who are about to buy for the purpose of putting up new buildings or merely for making repairs should not neglect the opportunity to save money by purchasing from this company. Price lists, catalogs and other information may be secured by writing to the Peter J. Seippel Lumber Co., 204 S. Locust St., Dubuque, Iowa.

Choice Polled Durham Bulls.

We desire to call attention to three very choice Polled Durham bull calves that are offered for sale by R. O. Miller, Lucas, Iowa. These are all roans in color, and good ones at that. They are sired by Royal Roan 374122, a Cruickshank Rosemary bull, and two of these young bulls are out of daughters of Imp. Scotch Marigold, one of the greatest cows that has been seen in this country. The dams of these two young bulls are sired by Imp. Crescent Knight, a bull that was formerly used in the Cargill herd of Canada, and later in the herd of Mr. Miller. This bull was one of the greatest sires ever used in the West and he left some great cattle behind him. The other calf is out of that great cow, Imp. Fancy 17th by the noted roan bull Capa-pie. These three young bulls are the making of three great herd bulls when matured and while they are young it is a good time to buy them. The Marigolds and the Fancys are two of the most rare and two of the most sought after tribes today on either side of the water. Polled Durham breeders will be particularly interested in these bulls, as nothing better can be found in this country. When writing Mr. Miller kindly mention The Homestead.

Browning's Grand Champion Durocs.

Some thirty-five years have elapsed since the Browning herd of Duroc Jerseys was established by J. M. Browning, the father of H. E. Browning, present proprietor of the Browning herd at Hersman, Ill. Over 3,500 prizes have been won by this herd at the leading shows during the past twenty-five years. One hundred and fifty-six ribbons were won in 1913 at the Iowa, Minnesota, South Dakota, Michigan and Illinois State Fairs and the National Implement and Vehicle Show held at Peoria, Ill. Thirty-two of these were champions out of a possible thirty-seven that the herd was eligible to show for. His junior yearling sow, under-year sow, under-year boar and young herd were never beaten in the six shows. At these six fairs only four premier championships were offered and all were won by Mr. Browning. At the National Implement and Vehicle Show his herd won grand championship over all breeds. Tattletale 36th won five firsts, one second, five junior championships, was first in twenty first-prize herds, first in five get of sires and first in four produce of sows. The aged herds were placed first and second at every show but Iowa and there second. The under-year herd won twenty first prizes. The get of Volunteer or Chief's Col. was first in the get of sire class at all of the above fairs. Mr. Browning could only show for the produce of sow prize in four shows and won it at each of these. Disturber, Mr. Browning's sensational big-type show and breeding boar, died during the last few days and it is a big loss as Mr. Browning considered him one of the greatest boars he had ever owned. At the present time Chief's Col, the Illinois grand champion of 1908 nad the sire of many first prize and champion boars and sows, is at the head of the herd. A boar's value depends altogether on his ability to transmit his good qualities to his offspring. A most remarkable fact is that every first, second and third prize Duroc Jersey at the Illinois State Fair in 1913 is a direct descendant of Chief's Col. This fact alone would give him a record as one of the very greatest sires living at the present time. Mr. Browning will have his show herd at the International Stock Show at Chicago and it is well worth any breeder's time to carefully inspect this great show herd. Mr. Browning was awarded the prize of having the best ten head of swine on the Illinois State Fair ground. On December 18th, Mr. Browning will sell his entire show herd, a number of fall and spring gilts and some boar pigs. The sows will be bred to the two great boars, Disturber and Chief's Col., and should prove attractive propositions. Full particulars of this sale will appear in The Homestead.

Bonnifield's Polled Durhams and Short-horns.

W. B. Bonnifield, Ottawa, Iowa, has an excellent herd of Polled Durham and Short-horn cattle. He is a breeder with constructive ideas. He has been purchasing the best Short-horn cows in a number of the leading sales held during the past few years and these he is mating with a short-legged, thick, Scotch Polled Durham bull and has obtained excellent results from these matings. The calves and yearlings are short of leg, have excellent spring of rib and are of excellent conformation throughout. The herd bull is a roan as are many of his calves. Daughters of Villager, Anoka Sultan, Leader of Fashion and other noted sires are found in the herd and as well many of the leading Scotch families. Mr. Bonnifield has sold one of his farms and for that reason is going to make a public sale February 26th and sell about fifty head. Fifteen of these will be bulls and there will be few better bunches go through a sale ring. This will leave him about fifty head in his herd and it is his ambition to keep on improving his cattle and gain a front rank as a cattle breeder.

A Thousand Bargains.

Careful consideration of the record-breaking women's winter coat display in the big Fall and Spring Fashion Guide which will be sent free to every woman who writes to Philips-

born, may mean a great saving in the family expenditure for clothing. This wonderful showing of women's coats is the largest and best ever presented by any house in this country. It includes thirty-eight pages of coats, 101 different styles and sizes guaranteed to fit any woman. Philipsborn has made this a year of sensational values and money-saving opportunities such as has never been experienced. It may be said that every garment is the last word in the most desirable and newest fashions. A thousand bargains may be learned from this big book. Write for it at once. It is free to those who mention this paper. Address Philipsborn, the Outer Garment House, Dept. 109, N. W. Corner Van Buren & Peoria Sts., Chicago, Ill.

J. W. McDermott's Short-horn Sale.

The sale of Short-horn cattle which J. W. McDermott, Kahoka, Mo., will hold on Tuesday, November 25th, affords excellent opportunities for buyers who want first-class bulls and females of the most popular breeding. Ten bulls and thirty females are listed and all are in just such condition as to show their value. Mention of the ten bulls was made last week and we again desire to say that Mr. McDermott has never offered a more desirable lot. The offering of females is in keeping and those looking for good breeding cattle or some choice young show yard prospects will not be disappointed. The Village Maid cow, dam of the first-prize yearling bull at the International in 1912 and sold to the Wisconsin Agricultural College is a breedy appearing roan that should appeal to the more critical. The Campbell Ury heifer, Maid of Whitehall by Whitehall Rose, is a granddaughter of Imp. Sweet Maid 2d by Imp. March Knight. Her full front, even top and bottom lines and character are such that she should appeal to the more discriminating buyers. Whitehall Princess, yearling daughter by the same sire and of the Princess Royal family is a red heifer with style and character. A villager heifer that is a full sister to Countess S. is one Mr. McDermott thinks much of. A pair of decidedly attractive white heifers that should be carried on for next year's shows are listed. One is a Marr Lady Mary out of a March Knight cow, the other an Athene out of a Whitehall King cow. Both are by Whitehall Rosedale. There are listed fifteen cows that are heavy in calf to Fair Goods or his son, Good Count. A dozen or more choice yearling heifers just settled in calf are also listed. Nearly all of these are Scotch females of excellent breeding. Mr. McDermott will gladly mail you a catalog on receipt of your request for same mentioning The Homestead. Note page 35 for his advertisement.

Moderow Offers Immune Duroc Boars.

With this issue of The Homestead, Wm. Moderow, Beemer, Neb., is starting an advertisement in which he offers Homestead readers some choice herd-heading Duroc Jersey boars that are immune. The herd owned by Wm. Moderow is one of the best of the entire country. It has been built up by the use of the very best stock that money could possible buy. It has not been a question of price so much, as it has been a matter of finding the very best animals. Leading herds have been topped, and with the extra care in mating and with the good, wholesome treatment that everything receives on the Golden Valley Farm, advancement over the good things bought has been achieved. Today the efforts of this good stockman, and also the product of the very best that other good breeders have been able to produce will be offered readers of this paper and at such prices that it is more of a question if they can afford not to buy, than it is if they can afford to purchase. There are some fall boars by Blue Ribbon Model, he by Golden Model 2d, and the first-prize boar at Iowa, Minnesota and South Dakota in 1911 Two of these boars are really herd heading boars. Some few fall boars are by Moderow's Wonder by the great Uneeda Crimson Wonder, one of the greatest sires of the breed. Spring boars are by Moderow's Wonder, also the great B. & G's Wonder the junior champion boar at Lincoln, 1912. Others are by Chief Select 2d, by the great sire Chief Select, Chief Select 2d is far the best son of Chief Select that the writer has seen. He was generally conceded to be the best boar on the Iowa State Fair grounds two years ago, but he did not get the top place in his class. He cost Mr. Moderow $600 and well worth the money. It is worth something to buy boars of this breeding and it is worth something to buy your boars of Mr. Moderow. Kindly notice the advertisement on page 32 and when writing kindly mention The Homestead.

Miller's Short-horn Importation Arrives

It is with pleasure that we call attention to the advertisement of that well-known breeder, R. O. Miller, Lucas, Iowa, on page 32 who just recently arrived home from Canada with a strictly choice importation of Scotch Short-horns. Mr. Miller was assisted in the selections of these cattle by the veteran breeder and showman, Robert Miller, of Canada, than whom there is no better judge on the continent, and his nephew, John Miller, Jr., and these cattle were the pick of the very best herds in that country. Included in this importation are some very choice young bulls, everyone of which are of the richest Scotch breeding. One of the best of these is royally bred Cruickshank Nonpareil, and he is a son of the noted bull, Spicy Master. He is a nice red bull in color, with an excellent head and horns, and is good in his lines and will make a splendid herd bull. Wedding Master is a nice roan bull and is sired by the Marr-bred bull, Merry Master, his grandsire being the great Ben Lomond. He belongs to that very select but very scarce tribe, the Wedding Gifts, and he is a bull that would be a credit at the head of any herd. Another good red bull is Augusta Victor, and he is a splendidly-bred Missie. This bull has a splendid head and horn, is a dark rich red in color, and will make a splendid herd bull. Another good bull is Tommy W., a son of Sittyton Victor and he belongs to the Countess tribe that is well and favorably known in Canada. He also has a good Clementina, and a lot of other bulls. He also bought over twenty choice heifers of the Buttercup, Red

SELLS' GREAT SALE
DUROC JERSEYS

80 HEAD | 30 BOARS, 50 SOWS | 80 HEAD

INDIANOLA, IOWA
WEDNESDAY, NOVEMBER 26, '13

I AM moving away from Indianola and will sell all my **best boars and sows.** Among the boars I will offer are sons of **Crimson Wonder Again, L. E.'s Col., Model Chief VIII.** and other noted sires. I am selling **Lot Wonder,** a full brother to the **champion boar, Crimson Wonder III.** I am selling some great boars by **L. E.'s Col.,** out of **Crimson Golden Rod,** a daughter of my **famous brood sow, H. A.'s Queen.** I am selling a daughter of **Crimson Wonder Again** and out of **H. A.'s Queen,** and **20 fall sows** sired by **L. E.'s Col.** Also a **splendid Crimson Wonder yearling.** Others by **Harding's King of Cols., Col. Gano, I Am A Crimson Wonder II.,** and other great boars. **Also some choice sows with litters at side.** If you want Durocs here is the greatest opportunity of the year. Cols. Kraschel, Allen and Putnam, auctioneers. M. T. White, field man for The Homestead. Send for catalog and mention The Homestead. Address

W. M. SELLS, INDIANOLA, IOWA

THE HOMESTEAD SELLS HORSES

FRED GALLIERS, veterinary surgeon, Albia, Iowa, has been an advertiser in The Homestead and recently wrote the following letter with reference to the advertising subject: "I have advertised in The Iowa Homestead for a number of years, off and on, offering stallions and colts for sale. I have also advertised in other papers, but I have had the best results from The Homestead. I have no criticism to make of its way of doing business." Farmers or others who have pure-bred horses to sell will serve their best interests by obtaining advertising rates. Address

THE HOMESTEAD CO. - DES MOINES, IOWA

TOO LATE TO CLASSIFY.

MILLER'S 1913 SHORT-HORN IMPORTATION ARRIVED

I JUST recently arrived home from Canada with a **choice importation of young Scotch bulls and twenty head of as good heifers as was ever brought to this country.** Among these bulls is a royally-bred **Missie,** a **Nonpareil,** a **Clementina,** a **Wedding Gift** and a **Countess** that are good enough to head any herd in America. Among richly-bred heifers will be found **Mina, Village Girl, Buttercup, Rachel, Beauty, Louisa** and **Red Rose** tribes and these are as good as you ever looked at. **I am offering these at private treaty** and if you want something real choice it behooves you to come and see these at once. Address **R. O. MILLER, LUCAS, IOWA.**

Rose, Rachel, Beauty, Louisa, Mina and Village Girl tribes. You never saw a more select bunch of heifers in one lot, and they are all good reds and roans in color. Mr. Miller is offering these cattle at private sale, and if any of our readers are on the market for a good young bull or some richly bred heifers, it will pay them to go and see these cattle at once. You cannot afford to delay the matter, but go at once, and get in on the ground floor. If you write Mr. Miller kindly mention The Homestead.

Judge's Great Bull Offering.

One of the splendid Short-horn bull offerings to be sold this fall will be found in the sale of J. T. Judge at Carroll, Iowa, on December 17th. Mr. Judge is selling fifty head in this sale, all of which are Scotch except three head, and it is the best lot of cattle he has ever sold. Included in this sale will be twelve head of Scotch bulls, and among these are some of outstanding individual merit, and good enough to go into any herd. One of these is Diamond Sultan, a rich red roan yearling, and a son of the noted prize-winning bull, Scotch Sultan. His grandsire was Golden Favorite, a bull bred by the Cargills, of Canada; then comes the great Bapton Diamond and then the equally noted Bapton Ensign. Mr. Judge purchased this bull to breed the heifers sired by his other bull, Sultan Standard, and he is a wonderfully thick fellow, and the making of a most excellent herd bull. He is listing a great string of young bulls sired by his herd bull, Sultan Standard, and among these is Sultan March, a pure white yearling bull sired by Sultan Standard and out of the great cow, Gold Hunt Maid. This bull is outstanding and will make a great herd bull. Standard Count is also a pure white, sired by the same bull and out of Sunlight Lass by Prince Robin and he is one of the greatest young bulls in the offering. He is listing a splendid red yearling bull that is out of Veronica 6th by the great Clear The Way that is also a good bull. His grandam is the noted cow, Imp. Veronica, by Craibstone, and this bull will fill the eye of a lot of breeders who are wanting a red bull to head their herd. He is selling a couple of nice young roan bulls, two of which are Cruickshank Victorias, and taking them altogether it is by far the greatest collection of Scotch bulls that Mr. Judge has ever sold since he has been engaged in the breeding of Short-horns. You will want the Judge catalog and after seeing it you will be sure to go to his sale. If you will drop him a card now and mention The Homestead, he will place your name on his mailing list and will forward you his catalog as soon as it is out of press.

Sells Great Sale Durocs.

On Wednesday, November 26th, at Indianola, Iowa, W. M. Sells will make a removal sale, and he will offer eighty head of Duroc Jersey boars and sows and it promises to be one of the good sales of the year. He is moving away from Indianola, and is therefore selling nearly every one of his celebrated brood sows, fall sows and spring gilts. There will be thirty boars in his sale and fifty sows, so you may know he will sell some good things in this offering. Among the boars he will sell is Lot Wonder, a two-year-old boar sired by Crimson Wonder Again and out of Lottie A. by Top Notcher Again. This boar is a full brother to Crimson Wonder III, the noted grand champion boar that now heads the P. W. Weberg herd. The Twenty-nine spring boars that he is selling are sired by L. E.'s Col., Model Chief 8th and I Am A Crimson Wonder II. He is selling a litter by L. E. Col. and out of Crimson Golden Rod, and she is a daughter of old H. A.'s Queen, and there are some splendid boars in this bunch. Those breeders who are looking for a good boar will find in this bunch some that are good enough for any of our best breeders. There are a number of boars in this sale that breeders will like and it will be the last chance to buy one at a public sale. He is selling twenty-five good fall sows and some of these are as good as he has ever had in a herd. He is also selling some of his noted brood sows. Among these is Iowa Belle 2d, a daughter of Crimson Wonder Again and she sells with a litter by L. E.'s Col. Best of All is another good sow and she sells with a litter by L. E.'s Col. Model Queen 4th, is a daughter of Golden Model, and she is a daughter to the grand champion sow, Model Queen, that sold in the Putnam sale for $705. This sow sells open. Belle Notcher, another one of his most famous brood sows, goes in and she is a dam of Belle's Crimson Wonder, the champion boar at the Nebraska State Fair in 1910. Golden Belle, a daughter of Harding's King of Cols. and out of the great Nebraska Belle is another good brood sow that he is listing for this sale. Twenty good spring gilts will also be sold and these are sired by the grand champion boar, I Am A Crimson Wonder II, Model Chief 8th and I. E.'s Col. It will be the last chance you will have this fall to buy Durocs at a public sale. Write Mr. Sells at once for his catalog and kindly mention The Homestead. M. T. White will represent this paper at the sale and will care for any bids sent in his care. See advertisement on page 31.

PUBLIC SALE, Tuesday, Nov. 25, 1913, 25 head of choice Duroc Jersey boars. Send bids to auctioneer. These boars will go at bargain prices as I am not going to any large advertising expenses. F. E. Zimmerman, Metamora, Ill.

Kent's Chester Whites.

If any of our breeders want a good Chester White boar, Thos. F. Kent, Walnut, Iowa, has them. For the past several years he has shown one of the most successful prize-winning herds on the circuit. He has a choice lot of boars for sale and he can fill your order for anything you want in the sow line. See page 38.

Rees Offers Scotch Bulls.

Those of our readers who want a right-choice Scotch bull should write or go and see Howell Rees & Son, Pilger, Neb. They are offering twelve head of bulls for sale sired by their noted bull, Ruberta's Goods, and other noted sires. If you want a right good bull they have them. Kindly mention The Homestead when writing them. See page 35.

Hampshire Boars For Sale.

On page 35 Roy E. Fisher, Winside, Neb., offers a choice lot of Hampshire boars for sale. These are all ages and as he wants to close them out will make special prices. He won ninety-six ribbons at the fairs this fall, so you may know he has a good herd. Write him right away about these boars and mention The Homestead.

New Holstein Sale.

One hundred and eighty head of registered Holstein cattle have been cataloged for public sale to take place at Syracuse, N. Y., December 2d and 3d. Breeding and individuality are said to be of the highest order. These cattle have been tuberculin tested and personally inspected. For catalog or information, write to the Liverpool Sale and Pedigree Co., Liverpool, N. Y. See advertisement on page 30.

Farver Offers Immune Boars.

One of the best Poland China herds today in northern Iowa is owned by E. E. Farver, Ocheyedan, Iowa, the owner of the great boar, Farver's Goliath, and E.'s Defender. He has a splendid lot of boars, all of which are cholera proof and immune, and he is closing these out at farmers' prices during the next thirty days. These boars are right in both price and quality. Get busy and order one of these boars at once. See page 37.

Stover Grinders.

The Stover grinder, which is one of the old-time farm machines, has been perfected so that today it is an ideal grinder for the preparation of alfalfa kafir or pea-vine hay. It will cut and grind fodder so that it is an ideal feed and put it into a condition where the animal will extract the largest proportion of food values. Other farm machinery of equal merit is made and sold by the Stover Mfg. Co., 28 Vine St., Freeport, Ill. Send for catalog. See advertisement on page 8.

A Poland China Boar at $20

Seems that when a Poland China boar, from one of the oldest and best established herds can be bought for $20 that there would not be a scrub boar of any kind used. Just such an offer is being made by A. Roesler, Wilcox, Neb. He has saved fifteen boars of his crop, and they are as near alike as can be found, weighing about 200 pounds each and of the very best breeding. Mr. Roesler does not want you to take the time to write and ask about these boars, but send your order at once and send check for $20 and he will ship you a boar and if not pleased will refund your money. This is one of the most remarkable offers ever made and all of these boars should be gone within a week. Mr. Roesler says that his supply of old corn is about gone, and to buy corn is going to cost him eighty-two cents a bushel and hence the cost prices on these boars for quick action. Mention The Homestead and write at once. See page 32.

An Extra Choice Poland Boar.

With this issue of The Homestead, L. F. Reilly, St. Paul, Neb., starts an advertisement in which he offers his proven Poland China boar, Combination. This is without question one of the very best boars of the breed and a sire with extremely few equals. Combination sired the first prize under six months boar at Nebraska State Fair in 1911 and the pig is now at the head of the John Schmeider herd at Remsen, Iowa, and considered by competent judges to be one of the best boars of northwestern Iowa. Combination is sired by Blue Valley Quality and out of Blue Valley Ex by Exception. It would be difficult to imagine a better pedigree and the boar positively backs it up. This boar can be had at $150 and is positively a gift at the price. The writer is familiar with the record of this boar, his record as a sire, also the records of many sows and daughters in other herds. They breed on and on. We recommend this boar. A breeder can make more progress in one season by the use

SHORT-HORN HERD BULL FOR SALE

NONPAREIL VICTOR

A SON of Violet's Nonpareil 282673, out of Victoria's Lavender by Victor of Evergreen Park 5th, second dam Lavender of Hill Farm 21st by Imp. Merry Hampton tracing to Imp. Lavender 31st by Brampton. Nonpareil Victor is a two-year-old roan bull of herd-heading character and having sold my herd I will now make a very reasonable price on this bull to a quick buyer. Write or visit meat once if interested.

H. F. FUNKE - GREENFIELD, IOWA

MODEROW'S EXTRA SELECT IMMUNE DUROCS

NEAR fifty boars for sale. Mostly spring boars, but few of fall farrow. They are sired by the $800 B. & G.'s Wonder, also the $600 Chief Select 2d, the great and only Blue Ribbon Model, and a few other noted sires. They are from one of the greatest herds of sows in the country. These grand young boars for sale right. Mention The Homestead and address **WM. MODEROW, BEEMER, NEBRASKA.**

Chester White Boars and Gilts For Sale

AS I can use him no longer I offer for sale White Cloud 20465, one of my great herd boars that has a 10-in. bone and will feed out to 1,000 lbs. He is good all over, a true breeder and easily handled. Also spring, summer and fall boars and gilts of good breeding and fine individuality. Some brood sows and gilts. **J. E. LEWIS - - - - BRAYTON, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 mos. Some of the best boars ever bred on the farm are now for sale. They will weigh around 200 and will be shipped immediately upon receipt of check for $20. The greatest bargains ever offered in my twenty years' breeding the big ones. Order from this advertisement today. Address **A. ROESLER, WILCOX, NEBRASKA**

35 IMMUNE POLAND CHINA BOARS 35

I AM offering 35 good spring boars sired by my great boar, **Blue Valley Chief,** and **Pawnee Defender.** Also three good fall boars. This is the last chance to buy Blue Valley Chief boars. These are all immune and are right in every way. Write me at once. Address **JOHN SCHMIEDER - - - REMSEN, IOWA**

Immune Poland China Boars and Sows For Sale

I AM offering 21 head of February and March gilts, average weight 325 pounds. Sired by **Hadley Golddust, Half Ton Wonder, Sampson** and **Henry Expansion.** Will **sell open or will breed. Prices $40 to $50.** Ten choice brood sows $50 to $75. **Five spring boars $30 each.** Am closing them out. None better. Write me at once. Address **A. W. JOY - - - - HERMAN, NEBRASKA**

An Immune Boar, Sire of Prize Winners

HOMESTEAD readers in search of one of the best Poland China boars in use anywhere will be interested in one I have for sale. Positively nothing better to be had. Three years old and fully guaranteed. Sire of the big ones. Address **L. F. REILLY - - - - ST. PAUL, NEBRASKA**

TAKE NOTICE

35 CHESTER WHITE GILTS For Sale

BRED to farrow in March and bred to such hogs as Lewis E., Col. Evans, Nagle's Kind and Right You Are. Do not fail to place an order for from one to five of these bred sows. Also 35 fall pigs for sale. Buy a trio of these pigs no akin. **E. L. NAGLE & SON, DEEP RIVER, IOWA**

ABERDEEN ANGUS BULLS

FIVE bulls about a year old for sale at reasonable prices. We invite inspection on Springdale Stock Farm adjoining this city. **W. B. SEELEY - MT. PLEASANT, IOWA**

DUROC JERSEY BOARS

IMMUNED BY GOVERNMENT EXPERT

SPRING pigs, 200 pounds and over, by Jumbo Wonder (son of Crimson Wonder Again) and out of big, well-bred dams. Write me. Address **GEORGE T. WHITE, Dallas Center, Iowa.**

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FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best. **L. I. HANDLON, R. 3, FARMINGTON, IA.**

FOR SALE!

45 HEAD OF 1,050-POUND STEERS

A. L. Freeman, Oakes, N. D.

POLLED DURHAM CATTLE WANTED

WE want Polled Durham cows and heifers in exchange for imported Percheron mare, 5 years, 1900 pounds, raised one colt, good worker. Address **Birkestrand Bros., Route 2, Cambridge, Ia.**

E. Z. Russell, Omaha, Neb.

LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

GOOD CHESTER WHITE BOARS AND GILTS

February and March farrow. Sire, Dock (22313) he by Model Boy he by Modeler. J. W. Fisher, Grinnell, Iowa.

Chester Whites

Choice March and April boars at $20 each. No disease in this neighborhood and no cholera on the farm in 25 years. **W. J. Martin, Darlington, Wisconsin**

O. I. C.

SPRING BOARS AND GILTS

Fall pigs, both sexes. **W. Doolittle, Woodland, Mo.**

When writing to advertisers please mention The Homestead.

PURE BRED HOLSTEINS

AT AUCTION

SO. OMAHA, NEB., DEC. 2, '13

78 cows and heifers. 12 bulls, including KALMUCK SKYLARK JOHANNA, the greatest son of the great Katy Gerben. There will be a lot of daughters of Sir Veeman Hengerveld, and King of Pontiacs. Send for catalog Cornbelt Holstein Sale Co.

A. L. HAECKER, Mgr., LINCOLN, NEB.

Short-horn Bulls

VILLAGE PARK HERD is offering some very richly-bred, attractive young bulls sired by the Cruickshank Dorothy bull, Good Knight, belonging to popular Scotch tribes, with quality and finish, and good enough to go anywhere. If you are in the market for a good bull write today for bull catalog and particulars. Mention The Homestead. **J. F. PRATHER, WILLIAMSVILLE, IOWA**

DUROC JERSEYS

I HAVE the big kind of Duroc Jerseys, with heavy bone and easy feeding quality. I have a fine lot of sows I am breeding for the trade this winter. Write me for any information or prices you may want. Address, mentioning Homestead, **HUGH M. FICKE, LONG GROVE, IOWA.**

IMMUNE POLAND BOARS $20 AND $25

SIX big, fine boars from the best Poland China breeding at above prices. Also a few rams and fine S. C. R. I. Red cockerels. Address at once **W. B. COOPER, MILFORD, NEBRASKA.**

CROSIER'S O. I. C. HOGS

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today **CHAS. W. CROSIER - JUNIATA, NEB.**

30 BIG-TYPE POLAND CHINA BOARS—cholera immune, sired by A Wonder Again, Miller's A Wonder, Pleasant View Hadley, Ring's Sensation. They are big, strong boars with length, good markings and quality. Ring Bros., Newton, Ia.

EVERY animal cholera immune. Berkshire hogs of most popular strains. Yearling herd boar and spring boars at farmers' prices. Geo. M. Fox, Prop., Village Side Stock Farm, Dallas Center, Iowa.

of this good boar than he will make in several seasons with the use of an ordinary sire. Write Mr. Reilly at once and mention The Homestead. See advertisement on page 32.

Ruebel Bros.' Boar Bargains.

If you want a good Poland China boar, sired by a recognized sire, and some by a noted show winner, then get in touch with Ruebel Bros., Marathan, Iowa. They have a grand good lot of boars for sale, out of 600 and 700-pound sows and every one is cholera proof and immune. You certainly will not go wrong if you order a boar from these boys. Read their advertisement on page 37 and when writing them please mention The Homestead.

Wm. Fagan & Sons' Short-horn Herd.

A herd of Short-horn cattle that has been founded the past few years and that will be a factor in the pure-bred stock business of Nebraska in a short time is the herd owned by Wm. Fagan & Sons, of Abbott. These gentlemen have been engaged in the livestock business in a big way for a number of years, but they have devoted the greater part of their attention to the growing and feeding of stock cattle and sheep. A few years ago, however, they started a herd of pure breds and they have made many valuable additions from some of the leading herds of Nebraska. They have been heavy buyers from Geo. Allen & Sons, Shoebotham Bros., Blank Bros., and L. Chesnut & Sonand only recently purchased a fine lot of pure Scotch stuff from S. A. Nelson & Sons. At the head of the herd is the fine Clipper bull, Clipper King, 2d, sired by Victor Sultan and out of Cora, 15008 by Rustler by Imp. Prince Oderic. The next dam is Clarinda by the great Conqueror. The third dam is Cleopatra by British Prince and the fourth dam is Imp. Corea by the great William of Orange. This bull is a goodly sort, and among the good bulls in use in the West. We will have more to say of this herd in future issues of The Homestead.

THE LIVE STOCK MARKET.

Union Stock Yards, Chicago, Nov. 8.—The week in the beef-steer trade is closing with the trade in dilapidated shape with no bright prospect for next week. Declines of 15c to 40c per hundredweight have caught the bulk and good heavy cattle that have had to sell 40c lower than Monday have been in a big majority. Even yearlings have suffered, but the rule has been that the lighter cattle were, the more readily they could be sold and the least discount. Good heavy bullocks that were in request anywhere from $9 to $9.50 on Monday have borne the brunt of the battle. More weight has been available than most people in the trade believed and there is no reason to assume that feed lots have yet been depleted of heavy cattle. It is the logical sequence of a big corn crop last year and present conditions will in all probability be reversed next year.

The damage this week was done on Wednesday when Illinois feeders contributed a surprisingly heavy supply of finished steers weighing 1,400 pounds and up. Many of them, especially late arrivals, were not salable on that session and a clearance has not yet been effected. But heavy cattle have not been the only sufferers as the slump has been spread all down the line, but owing to scarcity of western cattle, killing stuff selling from $8.25 down has been hurt least. Even choice yearlings are 10c and 25c lower, as the $9.75 kind on Monday had to take $9.60 on Wednesday and it is improbable that they would have done as well later. The $7.50 to $8.25 cattle have lost anywhere from 10c to 25c while a crooked class of heavy cattle selling at the close at $7.75 might have earned $8.35 on Monday. The big decline has been on the plain heavy, but crooked cattle and also good to choice stuff too heavily freighted with beef. Such steers as are now on an $8.50 to $9 basis are 40c lower than Monday, while the crooked weighty stuff looks 50c to 60c lower.

Market prospects for big fat cattle certainly are not luminous. Holders of such bullocks have only about thirty days to go, as after the International distributors will be filled up for holiday trade and a whole load of fat stuff goes a long way subsequently. Killers figure that the break this week will jar a lot of heavy cattle loose and they are ready for the windfall.

Assertion that a beef scarcity exists finds emphatic contradiction in a glut of fat bullocks at the stock yards. Grades of steers selling at $11 per hundredweight a year ago have trouble in realizing $9. Big cattle of show quality have to sell at $8.85 per hundredweight and packers do not want them on that basis. There is no explanation except that the beef cannot be vended. Trash commands a good market, but under present conditions neither weight nor quality is a credit to a steer at the stock yards. The logical results will be a dearth of prime cattle next year and return of famine prices. This heavy beef ought to be accessible to the consuming public at reasonable cost, but few retailers will handle it. While prime, bullocks were a drug trash sold like hot cakes and killers could not get enough western grass cattle of the $7 and $8 varieties. Demand centers on something cheap and a canner cow outsells a fat bullock, when intrinsic value is reckoned with.

Economy in the use of corn is the obsession of the average feeder at present. Where cattle were being bedded down with ear corn last year, kernels are being counted now. Livestock is being liquidated to avoid a board bill and as the season advances this policy will receive emphasis. Killers have heralded an intention to appraise livestock lower and growers have, in many cases, concluded to save grain.

The market on butcher cows and heifers has withstood well the adversities that overtook the beef-steer trade at mid-week, having had their break last week and supply of she stuff having been of moderate proportions throughout the week. As compared with a week ago little change can be detected in the trade on any class of cows now selling under $6, but the plain to good butcher cows selling between $5 and $6 are about 10c to 15c higher than the extreme low time last week and even cutters and decent canners are strong to a little higher than low time last week. Fat beef cows selling from $6.25 up are 10c to 25c higher than a week ago and 15c to 25c higher than low time last wee, while $6.50 to $8 heifers show 25c gains over recent low time.

The trade is inclined to the belief that the low spot of the season was uncovered on Wednesday of last week in the butcher cattle trade. Packers are finding broad outlet for the cheaper grades of beef, the range shipping season is practically over, relief should come soon from the heavy runs of cheap cattle with which Eastern markets have recently been wrestling and anti-winter liquidation of cornbelt she stuff shows indication of subsiding.

Sympathizing with the break since Monday on beef cattle and working under the influences of a heavy mid-week supply and only fair country demand, stock and feeding cattle values closed at the week's low point, 15c to 25c lower than Monday and with the general run of offerings selling on no better than a steady to 10c higher basis than at last week's low time. Eastern demand still shows curtailment from the influx of Canadian stockers. A spread of from $6 to $6.85 is taking the the bulk of the 600 to 850 -pound stockers and $6.60 to $7.25 most 900 to 1,100-pound feeders, though choice yearling feeders reach $7.15 to $7.50 and a few selected fleshy feeders $7.60 to $7.75.

By the middle of December it is expected that the process of depleting Canada of marketable livestock by American killers will be complete. Canada is already showing alarm over prospective shortage and will probably be forced to remove its present duty at an early date to secure a supply of meat from the United States. Very few beef catte are now coming from Canada, receipts from that quarter being mainly of stockers and feeders.

Bearish predictions, regarding the winter hog market emanating from packing sources is deterring growers from putting on weight, and those who cashed pigs earlier in the season, thereby avoiding risk and saving a feed bill, are congratulating themselves on their sagacity. Everything points to a season of low yields with an excess of mediocrity and trash early in the winter, followed by scarcity and higher prices during the spring and summer months. Wisconsin is cutting hogs loose, and according to D. D. Cutler, general livestock agent of the Northwestern road, that state has a record crop to market. Kansas City and Omaha are both getting big runs, suggesting that the short-corn area will be in the mood to accumulate when they can put up house droves at a range of $7 to $7.50, but nobody is staking his reputation on where the bottom of the slump will be struck.

"Bert" Overman, Swift's hog buyer, who is just back from a tour of western markets, reports swarms of underweights everywhere. Omaha's average weight last month was only 233 pounds while that of Kansas City was 185 pounds and at Chicago the average is making strenuous effort to get down to 200 pounds. This decrease despite the fact that pigs are constantly acquiring weight and it means that the country ih not disposed to convert corn into pork in the face of threat of lower prices.

Packers' bear campaign in the hog trade was pushed vigorously the first half of the current week, $7.85 stopping the best on Wednesday, while the general average price was shaved down to $7.62. On resultant light runs there has been a logical reaction of 25c, an $8.10 top and $7.70 to $8 bulk being established on Friday, but that the advance will be short lived nobody in the trade doubts. The Friday trade closed on the following price basis:

Bulk of sales	$7.70@8.00
Mixed, 215 to 250 lbs	7.60@7.85
Mixed, 170 to 200 lbs	7.70@7.90
Medium weights	7.80@7.95
Light butchers	7.90@8.05
Heavy butchers	7.90@8.10
Light shippers	7.85@8.00
Heavy shippers	7.95@8.05
Heavy packing	7.50@7.75
Rough heavy packing	7.35@7.50
Trowout packing sows	6.60@7.25
Fair to choice light	7.60@7.90
Light-light, 135 to 155 lbs	7.35@7.75
Pigs, good to fancy	6.50@7.50
Pigs, inferior to fair	5.50@6.40
*Boars, inferior to choice	1.00@3.00
Stags, subject to dockages	7.90@8.25
Government throwouts	3.75@5.00

*Subjejct to government inspection.

Live mutton trade has been doing some very erratic and more or less spectacular stunts this week, closing 10c to 25c higher than a week ago on fat classes and at the highest levels since last July for matured muttons and yearlings, while lambs are higher than at anytime since last September. The trade will do well not to ignore the fact, however, that Iowa, Illinois and Indiana cornfields are full of ovine stock that would be forced to the shambles by unfavorable weather, a fact that warrants expectancy of a choppy set of markets.

The bulge this week is counted upon to attract a liberal supply early next week especially as corn is high and hundreds of holders of western stock, taken out at high prices as feeders, are ready to cut loose to save feed and grab any profit there may be in sight, and present prices look none too stable. Natives are showing up in profusion from Wisconsin, Michigan and Iowa and are much more numerous than the trade had predicted. Range offerings have degenerated to feed quality almost entirely, and pretty trashy feeders at that in the main, but country demand for thin stuff of decent quality continues good. Closing tranactions this week were on the following basis of prices:

Lambs, good to prime	$7.40@7.75
Lambs, fair to good	6.85@7.40
Lambs, common to fair	6.25@6.85
Lambs, culls & Coarse bucks	5.50@6.25
Lambs, feeders common to best	5.00@6.75
Ewes, good to choice heavy	4.25@4.50
Ewes, good to choice handy	4.40@4.60
Ewes, medium to good	3.85@4.25
Ewes, culls	2.50@3.50
Ewes, breeding, 1 to 3	4.60@5.25
Ewes, bdg. aged, solid mouths	4.25@4.60
Ewes, feeders	3.10@3.85
Yearlings, good to ch. handy	5.75@6.25
Yearlings, fair to good	5.25@5.85
Wethers, good to choice	5.00@5.25
Wethers, feeders	4.00@4.60
Bucks, good to choice	3.50@4.00

HORSES.

MAASDAM & WHEELER'S NEW IMPORTATION OF PERCHERONS

Are now in their barns and ready for the inspection of purchasers. We have a great collection of 2 and 3-year-old imported stallions and mares and a large number of American-bred stallions and mares ranging in age from weanlings to six-year-olds. The mares are all bred to imported stallions. Our prices are reasonable. Write us before you buy.

MAASDAM & WHEELER, FAIRFIELD, IOWA

THE BEST IMPORTED AND AMERICAN-BRED PERCHERONS, BELGIANS AND SHIRES

Are to be found in our stables. We solicit the inspection of prospective buyers, knowing we can suit the most discriminating. Our horses have size, bone, quality and the right conformation. Our prices are reasonable, terms easy and guarantee liberal. Write us today mentioning The Iowa Homestead.

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Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three year-old stallions and a gr and bunch of mares and fillies. Mares are all in foal to imported stallions. All of my prize winners at the recent Iowa State Fair are for sale. I can show buyers more horses for the money than my competitors. Visit or write me your wants mentioning Homestead. Farm ½ mile from town.

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Irvinedale Belgians and Percherons

40 STALLIONS and mares—imported and home bred. Some highest class horses for critical buyers, and some farmers' horses at farmers' prices. Come to the farm. Ankeny is 10 miles north of Des Moines, on C. and N. W., and Ft. D., D. M. & S. Interurban. Address

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HART BROS.'S NEW IMPORTATION PERCHERONS AND BELGIANS arrived Oct. 8, 1913. The best lot of 2-year-olds brought over his year. Some will weigh 1900 lbs. Great big fellows with size, bone and quality. Come see them at once. Address

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Away from crowding to city barns where price has to be higher or stallion plainer, take a little trip on the quiet to my farm and see bunch Reg. Percheron studs weanlings to 4-year; growthy, useful money-makers for you. The farm is where they are raised and where you ought to buy them.

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ROAD and draft stallions and mares of the breeder at first cost. **E. P. Hamilton & Sons, Garden Grove, Decatur County, Iowa.** 23 miles S. W. of Chariton, Iowa, 82 miles S. of Des Moines, Iowa, at Leroy.

300 **SHETLAND** and **Welsh ponies** for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

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After October 15th,

PERCHERON STALLIONS

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THE winter months are coming. Part of your teams will be idle. Are they an expense to you, or are they good mares that are earning their way even in dull times, by reason of the colts they are carrying? Think it over. For information address

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FINE large 2-year-old Percheron stallion, one yearling Percheron stallion, $1,000 takes the two. Also have Hereford bull calves for sale.

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WANTED TO BUY, Home bred or Imported Percheron or Belgian stallions or mares, registered and sound, 2 to 5 years old, weight 1700 and upwards. Give full description and low cash price with first letter. J. P. Franklin, Box 305, Grand Island, Neb.

PERCHERON AND BELGIAN Stallions and mares, selected and imported under my personal supervision. Ea. a splendid animal and offered a extremely low prices. Call or write **V. W. HARMS, FAIRBURY, ILL.**

AN EXTRA LOT OF YOUNG CLYDESDALE STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

FRANK L. STREAM, Creston, Iowa. Imported and home bred Percheron, Belgian and Shire stallions and mares. All ages at reasonable prices.

A. LATIMER WILSON, Creston, Iowa. Home-bred draft stallions $250 to $650. Imported stallions cheaper than anywhere else. Come and see.

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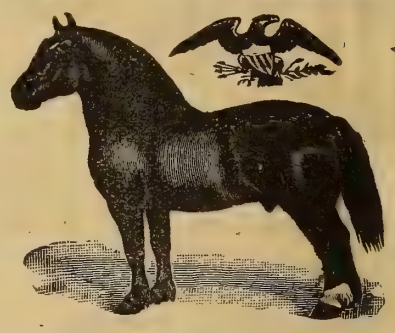

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ABERDEEN ANGUS CATTLE.

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---

20 Aberdeen Angus Bulls

I am offering **20 choice serviceable bulls,** of the very best families, sired by my noted Blackbird bull, **Blackbird Barney** and **Elfin of Homedale.** Want to move these and will price them right. Write me at once or come and see them. Address

CHAS. M. RUSSELL - - - - CARROLL, IOWA

CEDMER ANGUS

I HAVE on hand 8 bull calves, gilt edge in quality and breeding, all eligible to record. Also a few yearling heifers for sale. Address

A. G. MESSER, GRUNDY CENTER, IOWA

ANGUS BULLS: A few bulls of desirable ages and of best breeding. Address H. W. Ehlers, Roca Neb.

POLLED DURHAM CATTLE.

D. S. Polled Durhams, reds and roans, both sexes. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

POLLED DURHAM BULLS—Some thick beefy bulls for sale. Write for prices. Address

Walter Johnson - Dorchester, Nebraska.

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R.

JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle—Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address C. S. Hechtner, Charlton, Iowa.

ENGRAVING Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY

Engraving Dept. Des Moines, Iowa.

M'DERMOTT'S SALE SCOTCH SHORT-HORNS

KAHOKA, MO., TUESDAY, NOV. 25, '13

40 Head: 10 Bulls, 15 Cows, 15 Heifers---All Good

IN this annual draft sale are listed both bulls and females that should interest breeders looking for herd-header material, also show cattle. Special attention is directed to the white bull, Golden Count, calved September 30, 1911, sired by Good Count, dam Golden Girl by Choice Goods, and out of Golden Abbotsburn. He is a high class herd header, good from end to end; Whitehall Prince, another white two year old by Whitehall Rosedale and out of an imported Rosewood cow; a roan February calf by Good Count and out of an Avondale cow; a roan yearling by Whitehall Rosedale and out of a Glenbrook Sultan cow and a King Cumberland yearling afford unusual opportunities for selecting herd bull material. A Village Maid cow; a Campbell Cry show heifer, Maid of Whitehall; a Villager heifer, full sister to Countess S.; a pair of white junior heifers, one a Marr Lady Mary by Whitehall Rosedale, the other an Athene by Whitehall King are excellent prospects for junior yearlings. These, with the fine lot of cows heavy in calf to Fair Goods and Good Count and the fine lot of useful yearling and two-year-old heifers, offer exceptional opportunities to invest in good Short-horns. Col. Carey M. Jones, auctioneer. Catalogs that give full information will be mailed on receipt of request mentioning The Homestead.

J. W. M'DERMOTT - - - - KAHOKA, MISSOURI

HEREFORD CATTLE.

HEADQUARTERS FOR HEREFORD CATTLE

A LOT of dandy cows and heifers at attractive prices if you buy them quick. Might spare a few bulls yet. Come and see how good they are. Address
GEORGE D. HARRAH, NEWTON, IOWA.

25 Registered Hereford Bulls

VERY rugged and sappy, by good sires, with good bone, heads, backs and hind ends, will be priced very reasonable. Address, mentioning The Iowa Homestead,
A. SPOONER & SONS - - - - - - - MONDAMIN, IOWA

THOMPSON'S HEREFORDS

SOME extra choice bulls by Emancipator 11th. This is also the home of the $2,500 Duke Real 388816. If interested in the good ones, write us, mentioning Homestead.
THOMPSON BROS., WEST POINT, NEB.

RED POLLED CATTLE.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

SHORT-HORN CATTLE.

3 SHORT-HORNS AT BARGAIN PRICES 3

GAY PRINCESS 97535 by Challenge Mysie 282325, tracing to Imp. Princess Royal 6th by Border Chief.
QUEEN GLOSTER (calved May 5, 1904), tracing to Imp. Duchess of Gloster by Champion of England. Also a
LAVENDER BULL, two years old, sired by Violet's Nonpareil, out of Victoria's Lavender by Victor of Evergreen Park 5th, grandam the $1,000 Lavender of Hull Farm 21st by Imp. Merry Hampton. He is a nice dark roan and a right good bull.

H. F. FUNKE - GREENFIELD, IOWA

4--Good Young Scotch Bulls For Sale--4

I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address
GEO. H. WHITE, - - - EMERSON, IA.

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods,** and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address
HOWELL REES & SONS, - - PILGER, NEB.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

WILDWOOD BULLS

FIVE red Short-horn bulls ready for service for sale. Wildwood Sultan, Des Moines prize winner, among them. Come and see us or write for further particulars. Address
W. W. VAUGHN & SON, MARION, IOWA

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
W. M. MYERS - - BEAMAN, IOWA.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead.
F. H. EHLERS - - TAMA, IOWA

CHOICE FARMERS' BULLS

CHOICE Short-horn bulls at farmers' prices are the sort offered. They are sired by the good breeding bull, Improver, and out of cows of good breeding. Write to me at once for a good bull worth the money. Address **Pat Kelley, Friend, Neb.**

SHORT-HORN BULL Bargains. Four extra choice bulls at very low prices. B. F. Mason, Seward, Nebraska.

Mention The Homestead when writing.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
J. E. Barr, R. F. D. 4, Davenport, Iowa.

WAYSIDE FARM SHORT-HORNS

9 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address
G. H. BURGE - MT. VERNON, IOWA.

SHORT-HORN CATALOGS

COMPILED and printed. Thirty-five years' experience with pedigrees enables me to do good work. Write for samples and prices. Some pure Scotch heifers for sale,
FRANK P. HEALY - BEDFORD, IOWA

Short-Horn Bulls

FOR SALE. Reds and roans sired by Mr. Robin 338773, a richly bred Marr Missie. Address for prices, mentioning The Homestead,
I. H. Whitman - - - - - Lisbon, Iowa

Cedar Hill Short-horns

SOME extra good yearling bulls sired by the 2,200-lb. Secret Hero; also a pure Scotch herd bull. We keep a great line of heavy milking cows. Mention The Homestead and address
IRVIN E. WILSON, BELVIDERE, NEB.

1869 Herd Established 1869 1913

15 Short-horn Bulls for Sale.
JESSE BINFORD & SONS, LISCOMB, IA,

SHORT-HORN CATTLE.

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead.
GEORGE D. HARRAH, NEWTON, IOWA

Short-Horn Bulls and Heifers

EIGHT ten-months red and roan thick, sappy heifer calves, $100 each. Several yearlings and two-year-old heifers; 3 yearling bulls. Mostly Scotch breeding. Come and see me or write. Address
GEO. W. M'KERG - MARENGO, IOWA

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MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

HAMPSHIRE SWINE.

NISWANDER'S HAMPSHIRE SWINE

I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudlo, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion, at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address
HOWARD NISWANDER - - - - - - KINROSS, IOWA

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. My herd is headed by Messenger Boy 6179, the undefeated grand Champion of 1912,
CLAYTON MESSENGER - - - - KESWICK, IOWA

Sunny Slope Hampshire Swine

HERD headed by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** A few bred sows for sale. Bred sow sale February 4, 1914. Address
C. A. BROOK - - - WASHINGTON, IOWA.

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address
WOOD & WESCOTT - - SHEFFIELD, ILLINOIS

Fisher's Prize Winning Hampshires

THE sensational winning herd of the year. Won 42 prizes at three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention Iowa Homestead. Address
ROY E. FISHER - - WINSIDE, NEBRASKA

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

Excellent Hampshire Boars

A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price you can afford, write me. I can supply you. Mention Homestead.
C. P. PAULSEN - - - NORA, NEBRASKA

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today.
R. L. BOLLMAN, COAL VALLEY, ILLINOIS.

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

TWIN CEDARS HAMPSHIRES

HAMPSHIRES all ages for sale, the heavy boned, cholera immune kind, all bred from prize-winning boars at Iowa State Fairs. Address
PAUL WM. JAHN - MANILLA, IOWA

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when writing. **F. O. Peterson, Galva, Ia.**

HAMPSHIRE BOARS

SAME breeding as my **silver cup** winners at Des Moines, 1912. Will weigh 175 pounds and have had double treatment. Price $35 each. Guaranteed breeders. Mention The Homestead when writing.
F. T. QUIRE - - - - - SULLY, IOWA

Prize-winning Hampshires Some extra choice boars. Winners Neb. and Colo. fairs. Farmers' prices. Write at once. Address C. S. Bratt, Arapahoe, Neb

IMMUNE HAMPSHIRE fall and spring boars for sale. Write for description to H. C. Mehring, Manson, Iowa.

HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.
Geo. T. Pearce & Son - Bloomfield, Iowa.

Big-Type Hampshires

EXTRA choice lot of spring boars of the big boned, smooth sort. Mostly nice belted stuff. Address
A. L. DIEHL, BENEDICT, YORK CO., NEB.

BECKENDORF'S HAMPSHIRES

I AM offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
J. E. BECKENDORF, WALNUT, IA.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
Billie McFarland - - - Syracuse, Neb.

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address
L. F. TETER - SHICKLEY, NEBRASKA

JONES HAMPSHIRES--- Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

POLAND CHINA SWINE.

50 Head Hancher's Big-Type Immune Poland China Boars--50

I AM offering **fifty head** of as good boars as I have ever raised. These are all **immune** and are **ready to ship.** Sired by my 1,000-lb. boar, **Smooth Worder 2d, Chief Price Jr.** and **Chief Again Price,** the Nebraska **State Fair Grand Champion boar.** These are out of my very best sows, viz: **Long Molly, Model Wonder, Long Molly 2d, Price Model 3d,** and other 700 and 800-lb. sows. These will make outstanding good boars and I am pricing them at **$30 to$50.** Get busy and order one of these right away. Mention Iowa Homestead when writing me. Address

M. P. HANCHER - - - ROLFE, IOWA

COOPER'S BIG-TYPE POLAND CHINAS----Guaranteed Cholera Immune

BRED GILTS AT FORTY DOLLARS EACH

WE are going to sell a limited number of March and Agril gilts bred for March, April or May farrow at this price. They are sired by and bred to **Big Bone 2d, the 1,000 pound son of Big Bone; Chief Leader, a 700 pound yearling; Big Expansion, the 900 pound son of Dorr's Expansion; Giant Look** and other boars of big-type blood lines. **The dams are sows weighing from 500 pound yearlings up to sows of over 800 pounds. LISTEN!** if you want some of these gilts send your check, do not ask us to measure them or give you a detailed description. We do not have time to answer so many inquiries. All are good marked—no defects. **If they do not suit send them back and we will return your money. We will refund your money if they die from Cholera, or replace with one of equal value.** Send your order at once if you want them, as they will not last long at this price. Address, mentioning The Iowa Homestead, **W. H. COOPER, HEDRICK, IOWA.**

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153 SALES LAST SEASON
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KNOLL SLOPE FARM offers you Breeding Stock that prove profitable. Boars and gilts, no kin, all of high quality. Express office, Iowa City, Iowa.

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TAMWORTH BOARS

I HAVE ten choice spring boars, also one tried boar for sale. Prices reasonable.

Eugene Holden, R. 1, Williamsburg, Iowa

MAPLE GROVE HERD OF TAMWORTH SWINE

SPRING boars, weight from 150 to 200 pounds, at $20 to $25. **F. J. McKeever, Ryan, Iowa.**

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

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Halftones made from pictures or drawings of stock, for your letter heads, post cards, catalog advertising. Quick service, best work, reasonable prices. Write for information. Address

HOMESTEAD COMPANY
Engraving Dept. Des Moines, Iowa.

30 CHOLERA IMMUNE BOARS 30
Sired by my great boar, PAWNEE PRICE,

one of the largest and best big-type Poland China boars in the state. Everything **VACCINATED AND IMMUNE.** Write me for prices and description at once. Mention The Homestead and address

W. E. ZIMMERMAN - - - NEOLA, IOWA

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address

C. H. PORTER "Oakwood Farm Poland Chinas," EAGLE GROVE, IOWA

POLAND CHINA FALL PIGS AT $15.00 EACH

FALL pigs sired by the great Poland China boar, Hillcroft Model; also by Big Martin by the champion Big Tom, are for sale at $15 each at ten weeks old. These are from prize-winning sows. All of the highest order. Also some spring boars and two choice fall boars. Write me if you want something choice and worth the money. Address

G. A. KISSINGER, MILFORD, NEBRASKA

SPECIAL SALE UNTIL NOVEMBER 15TH

I HAVE as good a bunch of spring Poland China boars as I have ever raised. Also a few extra choice fall boars. There is no corn in my section of the country, and I am going to sell these big boars so that those living where there is corn can afford to buy. If you will write me; I will make it worth your while. Address

C. W. FRANCISCO - - - - - INLAND, NEBRASKA.

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495. Mention The Homestead and address

DAVENPORT & MACK - - - - BELMOND, IOWA

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale, that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

PIONEER POLAND CHINA BOARS

TOPS.

My big-type herd boar, Big Jumbo 2d, is now offered for sale. He carries a combination of A Wonder and Chief Price blood. He is big and good. Also spring boars by Bouncer, Made To Order, L's Big Bone, Big Nelson, Look's Best and Swallow's A Wonder. Dams are equally well bred. These pigs are healthy, thrifty and growthy. Will be sold at very low prices to quick buyers. Address

W. Z. SWALLOW - WAUKEE, IOWA

35 POLAND CHINA FALL BOARS

I HAVE a grand lot of fall boars for sale sired by **Giant King,** Jumbo Chief, and Black Kruger and of 700 and 800 lb. sows. Also good spring boars. Prices $25 to $40.

JOHN H. FITCH - - LAKE CITY, IA

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., Rt 2, box 76, Lawler, Iowa.

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.

O. J. SATRE - - - JEWELL, IOWA.

Wayside Poland Chinas

Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

BIG POLAND CHINA BOARS

FALL yearlings and spring boars. Cholera immunes. Sired by Hum Dinger, a state fair winner. **H. U. Arthur & Sons, Spirit Lake, Ia.**

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RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale We are pioneer breeders of Nebraska. Write today

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Oldest breeder in the state. Pedigreed stock for sale

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350 QUICK growing, hardy, healthy, mule-foot hogs for sale from America's champion herd. Also ponies. Jno. Dunlap, Williamsport, O.

BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

BIG-TYPE POLAND BOARS

ONE fall boar by Mastodon Chief. First check for $45 gets him. Thirty March and April boars weighing 175 to 225 pounds. First check for $25 gets choice. These are sired by Mastodon Chief, Big Jumbo 2d. A yearling herd boar sired by Mastodon Chief at $50. Send your check, and if not satisfied when you receive the hog, send him back and get your money. All have had double treatment and are immune. Mention The Homestead and address

E. W. KREISCHER, MT. VERNON, IOWA

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices Address

JOHN I. DRIPPS - SPRINGVILLE, IOWA

30 Poland Boars For Quick Sale

THEY are by VICTOR'S WONDER by Big Victor, MOBERLY by Big Expansion, and BLUE VALLEY. They will be sold quick. Address

E. V. WAUGH - - GREELEY, NEB.

POLAND CHINA BOARS FOR SALE

WE have thirty fall Poland China boars weighing 200 to 250 each at $35 to $40 each; and twenty-five spring boars at $15 each. From sires and dams that passed through the cholera two years ago. Have been a breeder of Polands for thirty years and certainly can please you. Address

J. O. Walton - - - Belle Plaine, Iowa

Poland Chinas 15 Boars 15 Gilts

TOPS of 50 head. Priced right to move promptly. Address **AUGUST POST, MOULTON, IA.**

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once

A.B.Heckenlivly - - - Cozad, Nebraska

PROCHASKA'S BIG-TYPE POLANDS

FALL and spring boars at bargain prices, sired by Smooth Wonder Yet, Matchless Charmer, Pawnee Jumbo. The best of blood lines. Satisfied customers in seven different states. Try me.

J. J. PROCHASKA - PROTIVIN, IOWA

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires: Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152095) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

When writing to advertisers please mention The Homestead.

POLAND CHINA SWINE.

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $575 and $625 spring boar in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 700 and 800 pounds. We want to sell these boars and we are pricing them at from **$20 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - **CLARINDA, IOWA**

FESENMEYER'S BIG-TYPE POLAND CHINA BOARS

I AM now offering **75 head of fall boar pigs** sired by the world-renowned **A Wonder** and **Big Joe.** These are out of my very best **Giantess, Long King, A Wonder** and **Big Joe** sows. You can buy one of these fall pigs now and you will save from one-half to two-thirds what you will have to pay for a boar next season. Buy these now and save your money. Address

HENRY FESENMEYER - - - **CLARINDA, IOWA**

30 IMMUNE POLAND CHINA BOARS 30

I AM offering thirty head of **Vaccinated and Immune** spring boars sired by the great **Colossal,** at **$35 each,** as long as they last. Ten of these boars will weigh 300 pounds. Also one choice fall boar. Write me quick. Address, mentioning The Homestead,

L. R. M'CLARNON - - - **BRADDYVILLE, IOWA**

HALFORD'S BIG-TYPE POLAND CHINA BOARS

I AM offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great prize-winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of Long Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address

R. W. HALFORD - - - - - - **MANNING, IOWA**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - - **R. F. D. 1, YORK, NEBRASKA**

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address

J. A. BEAUMASTER, ELMA, IOWA

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

MY Big Type Poland China boars are sired by Cox's Wonder, by Rude's Giant, and out of a Long King sow and by A. Model, grand champion of Iowa, 1912, and others. I sell at farmers' prices Write me.

B. F. MARMION - - **FARMINGTON, IOWA.**

FOWLER'S GIANT POLANDS

A FEW fall boars and a big lot of choice spring boars are now ready to sell. They are sired by the famous Tom Sampson by the great Sampson. Also a few litters of other lines and all extra good. If in search of some of the real big ones, write me for prices. You will find them very attractive for the class of stock offered. Mention The Homestead and address **MORRIS FOWLER, ARCADIA, NEB.**

JAMES LAWLER'S IMMUNE POLAND CHINA BOARS

50 IMMUNE Poland China boars. 8 good fall boars, 42 spring boars sired by Miller's Choice 170929 bred by John Miller, and Chief Price A 173973, bred by Peter Mouw, and Giant's Equal 198449, he by Equal's Giant 184927, he by Long King's Equal 177373. Their dams include all of the best big-type breeding. They are sired by Rock Valley Chief, Expansion King Jr. 2d, Chief Price Jr., A Wonder, Big Tom and Carey's Long Wonder. Come and see them or write for prices. **James Lawler, Clare, Iowa.**

20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1 at $15 each.

H. E. BURGUS - - - **Route 6** - - - **OSCEOLA, IOWA**

HIGGINS' POLAND CHINAS

SOME of the very biggest of the breed, quality enough for any one, and of excellent blood lines. Boars and gilts sired by Centennial, the 1,000 pound son of Big Victor and Taxpayer one of the very best ever sired by Sampson. We have an excellent lot to select from. Come and look them over or write. Address

J. R. HIGGINS & SON - - - - - - - - **DEWITT, NEB.**

SPECIAL SALE ON POLAND CHINA BOARS

FOR the next few weeks I will make very attractive prices on twenty-five Poland China boars. These are mostly spring farrow, but a few are fall boars. They are mostly sired by Jumbo Wonder by A Wonder and are from a good line of extra big bred sows. I will save you some money. Address

FRANK G. HOAGLAND - - - - - **GLENVILLE, NEBRASKA**

25---IMMUNE POLAND CHINA BOARS---25

I AM offering 4 choice fall boars for sale, one of which is a high-class boar and was first prize boar at Crawford county fair. The other three are also good, stretchy boars. **Twenty choice spring boars** sired by **Golddust Wonder, Long Orange** and **Defender Again Price.** These are big-boned, stretchy fellows and $25 to $35 gets these. Everything **vaccinated and immune.** Write me at once and mention Iowa Homestead. **C. M. PEDERSON** - - - - **DUNLAP, IOWA**

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Ex.'s Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - **GRINNELL, IOWA**

20 HEAD OF BIG-TYPE POLAND CHINA BOARS

OF the most fashionable breeding. Sired by King Wonder, Long King's Equal, Sterling Giant and Choice Look, out of 700 to 800 lb. sows, at farmers' prices. **J. M. SHEEHAN, STUART, IOWA.**

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.
Not the originator, but the preserver.

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones—growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

FALL PIGS by LONG GIANT

ALSO some by Big Bone and Baird's Choice and from an excellent line of sows that I will sell at $10 to $15 per head while they last. A grand opportunity to get the blood of the best and at small cost. **G. B. Van Kleek, Central City, Neb.**

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - **COON RAPIDS, IA.**

Poland China Spring Boars

BY Again Chief Price 192035, 2nd prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE **MAQUOKETA, IOWA**

30 CHOICE BIG TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D 189573, a son of the great A Wonder 107353.

William Drummy - - **Ryan, Iowa**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for description and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

BLUE VALLEY HERD OF POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address

ROBT. A. SCHUG, COLERIDGE, NEB.

FALL PIGS BY BLUE RIBBON HASTINGS

AT $10 to $15. An extra choice lot of fall pigs sired by the great Poland China boar, Blue Ribbon Hastings. He is one of the best bred boars in use anywhere and is a pleasing individual and always a winner where shown. Also spring boars to close out very cheap. Have saved only the tops of the spring crop. Write me today, address

W. J. EAVEY - - - - - **GENEVA, NEBRASKA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 months. Some of the best boars ever bred on the farm are now for sale. Real herd heading boars and those for others and all at very low prices. Twenty years breeding the big Polands. Write or come visit the herd, address mentioning Homestead.

A. ROESLER, - - - **WILCOX, NEB.**

EXTRA BIG, IMMUNE POLAND BOARS

WE have for sale a very choice lot of big, heavy boned boars, sired by Herod 2nd, and also some few litters bred by Peter Mouw. These Herod 2nd pigs are headers for the top herds. If in search of the extra big, also the smooth sort, write me. Mention Homestead and address

W. H. DEIGAN - - - **RAYMOND, NEBRASKA.**

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - **OCHEYEDAN, IOWA**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead,

WM. KEEP - - - - **ATLANTIC, IOWA**

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART** - - - **HARLAN, IOWA**

OAK PARK HERD BIG-TYPE POLAND CHINAS

30 APRIL boars and 30 gilts sired by Quality King (a grandson of Long King) and O. K. Price (by Chief Price Again). I have also a few fall pigs for sale at weaning time. My prices are low, and hogs will suit. In good health and vaccinated.

H. CRABTREE - - - - - - - **BAXTER, IOWA**

POLAND CHINA BRED SOWS AND GILTS

WE offer from our herd of extra choice Poland China sows and gilts a fine selection. They are chiefly sired by Old Reliable by Long King, and Roesler's Giant by Long Chief. They will be bred to A Columbus or Bonapart. If bou want the very best in extra big Polands, write us. Address

WARP BROS. - - - - - - - - **MINDEN, NEBRASKA.**

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

Meinhold's Big Polands

SPRING pigs by Big Jumbo, a grandson o Wade's Jumbo, Pud's Wonder by A Wonder, Nelson Tec. and a few others. This stock is big and well bred and goes at farmers' prices.

H. C. MEINHOLD, STROMSBURG, NEB.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - **LISBON, IOWA**

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, **Plattsmouth, Nebraska.**

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181793 and F.'s Longfellow 197311. Fall yearlings from $15 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

McCurdy's Giant Polands

SOME of the biggest, heaviest boned boars to be found anywhere, and they are of the very largest breeding. If you want big ones that are smooth, write me. I will save you money. Address

WM. McCURDY - **TOBIAS, NEB.**

HALF PRICE THIS MONTH

TOO many Poland China boars. Prices cut to get rid of them. 160 to 300 pounds. Sired by Orange Boy (1,000 pounds). Perfect health, $20 to $35. Will ship on approval. Satisfaction guaranteed.

M. G. Arnold & Son, Strawberry Point, Ia.

BIG POLAND CHINA BOARS

SPRING boars, 250 pounds or better, big bone, high quality, perfect health. Farmers' prices to those who buy quick. Address, mentioning Homestead,

J. H. COPE - - - - **CARLISLE, IOWA**

Clean, Healthy, Profitable Hogs

WITH THE **Hog-Joy VERMIN KILLER**

Rid your hogs permanently of all health-destroying vermin. You can do this with no bother at all, and at hardly any expense, with the Hog-Joy Automatic Oiling Machine.

The HOG-JOY OILER has no equal for strength, simplicity, economy and reliability. Only three parts, all heavily built of cast iron; can't break or get out of order. No small openings to clog up when hogs rub against it; no little valves to give trouble. Not effected by heat or cold.

Requires no attention after it is started. Hogs like it, and keep their skins free from parasites, mange and scabs—in better condition to resist disease and to develop more rapidly.

No costly patent fluid necessary. Crude oil is cheapest and best; used for years and approved by state experiment stations. The machine puts all the oil on the hogs, not a drop on the ground. Let your hogs try the Hog-Joy 30 days free of cost to you. Shipped ready to start with 2 gallons of oil. Price $10. Your money back if not satisfied. Send money order, check or cash at our risk. Reference, any bank in Springfield, Illinois.

A. A. HUSEMAN, Beecher, Ill., says: "I am well pleased with the machine. Would not be without one. Will get one more later on."

Agents Wanted This machine is an easy seller. You can get good pay for your time. Write for our liberal offer to agents and free literature.

THE HOG-JOY COMPANY
301 N. 5th St., Springfield, Ill.

FREIGHT PREPAID—30 DAYS FREE TRIAL

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA.
J. L. Thatcher, Manager.

BERKSHIRE CULLS
$8.50 per cwt.

MY butcher just bought my pure-bred **CULLS** at $1 advance over the market. Must be pork makers, eh? Why not try one of my best boars? Have 32 spring boars, rugged, stretchy fellows, 135 to 200 pounders at $20, $25, $30 and $35. Sows, one or a car load. Will ship C. O. D. Address
M. A. O'Brien, Route 2, Reedsville, Wis.

BERKSHIRES

BOARS in service are Longfellow's Premier by Premier Longfellow 68600, Baron Peabody 10th by Baron Duke 88th 91888. Forty fall and spring boars for sale. Mention Homestead and address
GEO. PORTER - STANTON, NEB

22 BERKSHIRE BOARS FOR SALE

I HAVE two splendid fall boars and 22 good spring boars for sale. These are sired by Rob Roy 10th, a prize winner at Des Moines, and Model Master 2d. Write me at once for prices.
H. L. KEMP - - - HARLAN, IOWA

BERKSHIRE BOARS FOR SALE

I AM offering some good fall and spring boars at farmers' prices. Write me at once and mention Iowa Homestead. Address
JOHN C. MILLER - HARLAN, IA.

Honeywell's Berkshires

SOME very fine spring boars, nicely bred, good individuals that are for sale at farmers' prices. Mention Homestead and address
J. K. HONEYWELL - LINCOLN, NEB.

BERKSHIRES—We can supply your wants in choice boars and sows of April farrow. Pairs and trios not akin, representing as good a line of breeding as you will find. Will please you or no sale. Orlando Jacobs & Son, R. 4, New London, Iowa.

GEO. M. FOX, Dallas Center, Iowa, breeder of Berkshire hogs of most popular strains. Immune yearling herd boar, Michigan Best Boy by Lord Lee 56th, and spring pigs for sale.

BERKSHIRE BOARS FOR SALE. Some fine spring boars, nicely bred and good individuals. Cholera immunes. Write for prices. Fred Divelbess, Logan, Iowa.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

CHESTER WHITE SWINE.

BARR'S CHESTER WHITES

VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
W. T. BARR - - - AMES, IOWA

Extra Choice O. I. C. Boars

GREAT big spring boars, weight 225 and up. Your choice while they last at $22.50 each. Order from ad. and save time. Address
WM. BUEHLER, STERLING, NEBRASKA

LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

G. H. TUTT, Marathon, Iowa, breeder of Chester White hogs. Herd immuned and in good health. Big, good, and well bred spring boars for sale. Prices reasonable.

CHESTER WHITE SPECIALS. Some extra choice boars, well bred, well grown at $22.50 to $50.00. Two excellent fall boars at this price. Address Harry J. Anderson, Beaver Crossing, Neb.

CHESTER WHITE SWINE.

C. C. EVANS
LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

I SHIP C. O. D.

CHOICE big-type Chester Whites, either sex, pairs no akin, farmers' prices, crating and pedigree free.
GLENN F. RIDER, FARMINGTON, IOWA

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa

FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address H. MEYER, STAPLEHURST, NEBRASKA

Turner's Immune O. I. C.'s

I HAVE twenty 200 lb. spring boars that absolutely must have a new home. They are by prize-winning sires and from an excellent bunch of sows. Write me if you wish a bargain. I will give you one.
AMOS TURNER - WILBUR, NEB.

CHESTER WHITE BOARS

FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vanderslice Bros., Cheney, Nebraska

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

Prize-winning Chester Whites

A FINE lot of extra choice spring boars, also gilts and sows for sale. Mostly the get of the great Keep On Winner. Write today,
H. L. BODE - - - FRIEND, NEB.

BIG, SMOOTH CHESTER WHITES

WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

Crosier's Chester Whites

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

BURT'S CHESTER WHITES

18 CHOICE Spring Boars ready for service. Could spare a few gilts, also fall pigs.
B. R. BURT, COGGON, LINN CO., IOWA

Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

ROGERS' O. I. C.'s Positively as good as any. Prices moderate. For an extra select boar, write N. R. Rogers, Peru, Neb.

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

FULL BLOOD guaranteed Chester White boars and sows for sale. Address Lock Box 73, Radcliffe, Ia.

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

IMMUNE CHESTER WHITES—SPRING and yearling boars at reasonable prices. C. F. Sealock, Neola, Iowa.

O. I. C. Boars or Gilts priced right. Address W. P. Doolittle, Woodland, Missouri.

O. I. C. boars, gilts and sows. Good bone and ham, at right prices if taken soon. Geo. W. DeBar, Aurora, Iowa.

CHESTER WHITE SWINE.

BOARS! BOARS!! BOARS!!!

I HAVE decided to cut prices on Chester White boars and gilts for the next 30 days. These pigs are sired by three different boars. Have the length, good bone, good backs with the very best of heads and ears. Weight from 150 to 300 lbs. If you want a boar or gilt at a little above market price, write at once. Anything shipped on approval.
Harry Hurless, Ogden, Iowa.

30 CHOICE FALL BOARS

SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by High Style, International King, International Boy, Combination III, Village Boy and Combination's Favorite.

BRED SOW SALE, FEBRUARY 27, 1914

Please paste this in your hat. Anything in the boar line sent on approval. Address
J. L. BARBER - - - - - - - HARLAN, IOWA

Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - PRESCOTT, IOWA.

GRAND VIEW CHESTERS

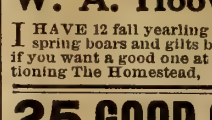
GOOD ONES. March and April pigs sired by **Good Goods 21423** and **White Wonder 22581. Bargain Prices** for 30 days. Shire stallion and mares for sale of the best breeding. Aberdeen Angus cattle, either sex, for sale.
T. A. STEVENSON - - - SHANNON CITY, IOWA

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead,
WM. A. HOOVER, OSKALOOSA, IOWA

25 GOOD CHESTER WHITE FALL BOARS 25

I HAVE some excellent young boars, some choice herd headers. Also 50 good spring boars. These pigs have been immuned. Write me if you want one and mention Iowa Homestead. Address
JOHN F. HOLST, JR. - - - - - - DENISON, IOWA



WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - FARMINGTON, IOWA

Stewart's Immune Chester White Boars

I AM offering 60 head of the best boars you have ever seen for the money, sired by my splendid herd boars Iowa Boy and Crescent. These have all been vaccinated and are immune. Write me at once for description and prices, and mention Iowa Homestead. Address
J. H. STEWART, - - DICKENS, IOWA

Nagle's Prize-Winning Chester Whites

WE have a fine lot of boars and gilts sired by our Prize-winning boars, Col Evans and Lewis E. and out of State Fair winning sows. We won 5 first prizes at the 1913 Iowa State Fair on stock of our own breeding. Write us your wants mentioning The Homestead.
E. L. NAGLE & SON - - - - - DEEP RIVER, IA.

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - ELLSWORTH, IOWA

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

SUNNY SLOPE CHESTER WHITES

160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
W. E. GAFFEY - - - - STORM LAKE, IOWA

CENTRAL IOWA HERD CHESTER WHITES

125 HEAD of spring pigs of both sexes to select from. Also booking orders for fall pigs to be shipped at weaning time. Have six male pigs, one year old the middle of Sept. Will ship on approval. Write or come and see me.
G. O. SATRE - - - - - JEWELL, IOWA

MURRAY'S CHESTER WHITES

CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
CHAS. H. MURRAY - FRIEND, NEB.

DUNBAR'S CHESTER WHITES

16 BEST boars I ever raised. March and April farrow. Cholera immuned. Prices reasonable. Also a few choice gilts for sale. Write me at once.
W. H. DUNBAR - JEFFERSON, IOWA

DUROC JERSEY SWINE.

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - - ALGONA, IOWA

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
E. L. BUSCH - - - - - - - SYRACUSE, NEBRASKA

S. E. EAKLE & SONS,
PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

CLOSING OUT DUROC BOARS

A FEW very choice Duroc boars of spring farrow for sale at right prices. Best of breeding, and only our best saved for breeding. Address
F. E. MERRICK, OSCEOLA, NEBRASKA.

W. W. Scott, Calamus, Ia., breeder of Duroc Jersey hogs. Spring pigs of both sexes for sale. Will weigh 200 lbs. or better. Bred sow sale in Jan.

Duroc Boars $25 EACH

I HAVE some good boars that I will sell at $25 each. They have had the double treatment and are immune. They are sired by Wilson's Crimson Wonder and out of sows by Wilson's Defender, a litter mate to the great Disturber. Send me your order, mentioning The Homestead.
I. J. WILSON - WEST BRANCH, IOWA.

100 Immune Duroc Boars

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address
F. C. CROCKER - FILLEY, NEB.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right,
J. S. SNETHEN - DAVIS CITY, IOWA.

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcolm, Nebraska

DUROCS March pigs for sale. Long, heavy-boned boars and gilts of good strains. Jos. Shradel, Riverside, Iowa.

DUROC JERSEY SWINE.

30--IMMUNE DUROC JERSEY BOARS--30

Special Prices for Next Thirty Days

I AM offering 3 spring boars sired by the grand champion boar, **Crimson Wonder III.**, and out of a Defender dam. These are good ones. Also some choice fall boars by **C. H.'s Special** and a lot of spring boars by Col. Gano and other noted sires. Everything vaccinated and immune. These are bargains and must be sold. Address
P. W. WEBERG, - - - - - - - - **DENISON, IOWA**

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col, and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. These boars have size, bone, quality, combined with breeding that is right. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address
HANKS & BISHOP - - - - - - - - **NEW LONDON, IOWA**

Duroc Jersey Boars From Van Patten's

BOARS by the great Uneeda Crimson Wonder and Model Wonder, also a few by Queen's Col. These are from one of the oldest established herds of America and from a grand lot of sows. These herd heading boars go at farmers' prices. Let us have your order at once. Address
G. VAN PATTEN & SON - - - - - - - - **SUTTON, NEB.**

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you If you come to the farm. Address
J. B. ASHBY - - - - - - - - **AUDUBON, IOWA**

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN - - **R. F. D. 7.** - - **LINCOLN, NEBRASKA.**

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freed's Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - - - - **GRISWOLD, IOWA.**

30 HIGH-CLASS DUROC JERSEY IMMUNE BOARS---30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, A.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
R. F. AIKMAN - - - - - - - - **AUDUBON, IOWA**

40—BIG-TYPE DUROC JERSEY BOARS—40

SIRED by Crimson wonder Chief, San Salvador and Cherry Chief, and from sows sired by Crimson Wonder I Am, Belle's Colonel, Proud Colonel, Blue Ribbon Chief and other noted hogs. These boars are March and April farrow and weigh 160 to 200 lbs. They have good neat head and ears, broad arched backs, thick deep hams, are a deep cherry red in color and as smooth as a ribbon. Price $20 and $25 each.
R. H. DE VAULT - - - - - - - - **BLOOMFIELD, IOWA**

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address
F. H. DICKEY, EMMETSBURG, IOWA

DUROC JERSEY BOARS

I HAVE a fine lot of spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - - - - - **VICTOR, IOWA**

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Pride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Sittyton Duke the 6th for sale.
B. W. LITTLE, R. 7, JANESVILLE, WIS.

IMMUNE DUROC BOARS FOR SALE

VACCINATED by double method. Four head of fall yearlings and 25 big, growthy, spring boars. Herd boars, Clover Dale Chief 117753 and Lincoln Model 133869. Dams of best breeding. Visit or write
U. G. BURTON - STORM LAKE, IOWA

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Supberba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - **RYAN, IOWA**

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - **West Liberty, Iowa**

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

DUROCS---April Pigs For Sale

Good lengthy boars and gilts of the best breeding.
L. L. WOODS - - - **GRINNELL, IOWA**

DUROC BOARS

Some choice spring boars for sale now. Farmers' prices. F. GUSTIN, Elmwood, Nebraska

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model II., Crimson Ohio Chief, Crimson Chief II. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - **FREDERIKA, IOWA**

50 Immune 50

DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

IMMUNE RED HOGS

DOUBLE TREATMENT
Crimson Wonder and Ohio Chief Strains
GEO. T. WHITE DALLAS CENTER IOWA

DUROC JERSEY BOARS

OF March and April farrow, sired by Protection's Medium by Chief Protection and Model Select by Chief Select. The dams are of Muncie Chief and Crimson Wonder Again breeding. Prices reasonable. Write me before you buy.
WARREN HUGHES, LITTLEPORT, IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - **DICKENS, IOWA**

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - **WOODWARD, IA.**

BIG DUROCS

by J. E.'s Model King by King The Col. Write for prices at once.
J. E. HENSLEY - **CENTRAL CITY, NEB.**

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J C. DROZ - - - **FAIRFIELD, IOWA**

Sunnyside Duroc Jersey Boars $25 to $40

IMMUNE boars of spring farrow, safe to go into any herd. I have 35 of them that are big, husky, strong boned fellows, and from the most popular lines of breeding. First orders get first choice.
M. A. M'WILLIAMS - - - - **R. F. D. 1, WALL LAKE, IOWA**

TWO GREAT HERD BOARS BY CRIMSON WONDER AGAIN

ONE of them the 1st under-year boar Nebraska State Fair. He headed the herd of Durocs that won six firsts. The other is a son of H. A.'s Queen. Also farmers' big-boned boars at farmers' prices. Address
H. S. ALLEN - - - **RUSSELL, IOWA**

60 EXTRA CHOICE CHOLERA IMMUNE DUROC JERSEY BOARS

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select,** and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Everything in herd vaccinated. Will guarantee everything to live 30 days or will refund one-half of purchase price. Ready to ship at any time.
H. S. FAIN EMMETSBURG, IA.

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - - **MARQUETTE, NEBRASKA.**

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - **STORY CITY, IOWA**

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - - **IRETON, IOWA**

25 Immune Duroc Jersey Boars---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address, mentioning Iowa Homestead
E. A. CALKINS - - - - **RUTHVEN, IOWA**

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - **DE WITT, NEBRASKA**

BRIGGS' DUROC JERSEY BOARS

50 CAREFULLY selected, cholera immune, Duroc Jersey boars, sired by Cleatham's Pride, always a prize winner, Crimson Wonder 4th, first Nebraska, 1911, Queen's Crimson by C. W. Again and Belle Wonder. Positively everyone a good one and will weigh from 200 to 250. Write us today and mention The Homestead.
GEO. BRIGGS & SONS - - **CLAY CENTER, NEBRASKA.**

BLACKBURN'S Immune DUROC BOARS

TWENTY-FIVE very choice spring boars by Crusader Col. and from an excellent herd of sows. These boars are immune and fully guaranteed. Absolutely first-class in every way. Your money back if not satisfied. $25.00 each while they last. Mention The Homestead and address
J. R. BLACKBURN - - - **ORD, NEBRASKA**

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - **ALEDO, ILLINOIS**

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - **AVOCA, IOWA**

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfeld's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - **Rose Hill, Iowa**

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - **Oxford, Iowa**

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
Wm. BAUER - - - **AUDUBON, IOWA**

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding. Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - - **AMES, IOWA**

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - **Sheldon, Iowa**

15 HEAD IMMUNE DUROC JERSEY BOARS

I AM offering 15 good boars. All **vaccinated and immune.** Sired by I Am Muncie. These are good boars. Price $25 and $35. Send your order at once. Address **J. F. Kerns, Holstein, Iowa.**

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - **LAMONI, IOWA**

25 DUROC JERSEY BOARS 25
25 DUROC JERSEY GILTS 25

LARGE, growthy, heavy bone. Everything guaranteed as represented. Best breeding, $20 to $30. Correspondence solicited. Address
W. J. HARTUNG - **MAXWELL, IOWA**

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

Special Prices on Durocs

Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

DUROCS

FEBRUARY and March males and gilts, lengthy and heavy boned, at reasonable prices. B. B. McAlister, Blakesburg, Iowa.

"I had over 100 hogs which became stiff, and their hair stood the wrong way. I thought they were going to die. I took eight which were in the worst condition, separated them from the rest, and fed them "Sal Vet." Some were so weak I had to put the preparation upon their tongues. In a few days, they all ate well, and after another week you could not tell them from the hogs which were perfectly well."—Wm. C. Bohnsack, Montpelier, Iowa.

S. R. Feil "The Salvet Man"

15,000 Iowa Farmers Accepted My Offer

TO FEED THEIR STOCK 60 DAYS ON

The Great WORM Destroyer

TRADE MARK

SAL-VET

REG. U.S. PAT. OFF.

The Great LIVE STOCK Conditioner

Before Paying Me a Single Penny—I'll Make This Same "No-Pay-in-Advance" Offer to You

Sidney R. Feil, President

is a Registered Pharmacist, a graduate of the Cleveland School of Pharmacy and of the National Institute of Pharmacy. He has been engaged in laboratory work for more than twenty-five years and was formerly assistant to Dr. Nathan Rosewater, former Chemist of the Ohio State Dairy and Food Commission, for many years engaged in compounding veterinary remedies.

Here are Just a Few of Their Letters

Good Medicine

"We have used one barrel of 'Sal-Vet' and now want another as we find it is good medicine."—P. G. Henderson, Ex. Pres. Red Poll Cattle Club of America, Central City, Iowa.

Sure Knocks Worms

"Before I commenced feeding 'Sal-Vet' my hogs were coughing badly, but since feeding the 'Sal-Vet' the cough has entirely left them. It sure does knock the worms."—James Anderson, Sloan, Iowa.

Hogs Look Fine

"My hogs were in bad shape when I received your 'Sal-Vet.' Since feeding it, they look fine and *are* fine. I have not lost a hog, but those belonging to my neighbors on all sides have died."—D. H. Manshop, Colo, Ia.

Hasn't Lost a Hog

"All summer I have been feeding 'Sal-Vet' to a number of my hogs. I have not lost a single hog, but my neighbors all around here have lost hundreds of their hogs."—W. T. Huckstep, Denison, Iowa.

Satisfied

"I am more than satisfied with the results from 'Sal-Vet.' It is a sure worm expeller."—J. M. McGuire, Columbus Junction, Iowa.

Just Fine

"My hogs have done just fine, and my horses have greatly improved since I have been feeding 'Sal-Vet."—B. A. Ivans, Leon, Iowa.

Good Work

"South of me every farmer has lost his hogs from cholera, even up to the adjoining farm, and it is still raging. Your 'Sal-Vet' did good work for me."—Cliff E. Conover, Holstein, Iowa.

Has Them All Beat

"I find 'Sal-Vet' a great worm destroyer for all kinds of stock. I have fed lots of different remedies, but 'Sal-Vet' has them all beat."—R. L. Whitehead, Thayer, Iowa.

All Right in 10 Days

"When your 'Sal-Vet' arrived my hogs were sick and dying. In less than 10 days they were all right and are now doing finely. I will not be without 'Sal-Vet' again."—S. R. Wallace, Ainsworth, Iowa.

Sal-Vet a Big Help

"We have 350 head of sheep, some of which were infested with worms and in a bad way. 'Sal-Vet' has been a great help to them."—J. H. Arney, Chester, Iowa.

No Loss Since Feeding Sal-Vet

"I have not lost a single pig from worms since I commenced feeding 'Sal-Vet.' Furthermore, I am confident that none of my hogs are harboring any worms since they have had access to 'Sal-Vet.' It is all that you claim."—John McFarland, Malvern, Iowa.

The Best and Least Expensive

"I like to feed 'Sal-Vet' to hogs of all ages, as it completely cleans them of worms without starving the hogs before feeding it. I consider 'Sal-Vet' by far the best and least expensive worm destroyer and conditioner I have ever fed."—Jens Ingwerson, Avoca, Iowa.

Not a Single Loss

"I have not lost a single lamb since using 'Sal-Vet.'"—A. F. Anderson, Brayton, Iowa.

Beyond Expectation

"Results obtained from 'Sal-Vet' were beyond expectation. It is by far the best hog conditioner and worm destroyer I have found."—A. F. Wolf, Blairstown, Ia.

Pleasing Results

"I am well pleased with the results of feeding 'Sal-Vet.' Our hogs had no cholera, while our neighbors all around us have lost all of theirs."—J. B. Jolliffe, Rolfe, Iowa.

Kept Hogs Healthy

"'Sal-Vet' does even more than you claim for it. I have been feeding it, and so have some of my neighbors. Altho' lots of hogs around here are dying, those belonging to 'Sal-Vet' feeders are healthy".—Mrs. Chris Kruse, Allison, Iowa.

Hogs Doing Well

"I want to tell you that many farmers in this vicinity lost many hogs during the past season. My own hogs are doing well since feeding them 'Sal-Vet.' It is all you claim for it."—Levi Bannister, Walcott, Iowa.

Paid for Itself

"Altogether I have fed seven different kinds of stock remedies, but 'Sal-Vet' is the only one of the lot that has paid for itself. You may refer me to any one in doubt of the value of 'Sal-Vet.'"—Geo. A. Weimers, Rock Valley, Iowa.

No Sign of Worms

"I was surprised at the rapid improvement my fattening hogs showed during the sixty days I had been feeding 'Sal-Vet.' None of those I butchered showed any signs of worms. Have fed different remedies to expel worms, but 'Sal-Vet' beats them all."—T. A. Jackson, Wharton, Iowa.

Fully Convinced

"Several weeks ago I sent for 100 lbs. of 'Sal-Vet' with the understanding that it was to do just what you claimed for it. I am now sending my check, as I am convinced that 'Sal-Vet' is a money maker for every farmer. I do not think it has an equal for conditioning horses; every one who sees my horses, comments on their remarkably fine appearance and this in spite of a hard spring's work."—Arnold Hydes, Gaza, Iowa.

Not a Loss

"Have had good satisfaction from the 'Sal-Vet.' Others in this neighborhood have lost hogs, but I have not lost a single one."—Emmett Reed, College Springs, Iowa.

Never Had Hogs Do Better

"After feeding 'Sal-Vet' for about ten days, I noticed the pigs were expelling worms, and after that, I never had hogs do better nor gain faster."—Walter Clark, Shambaugh, Iowa.

Best Ever

"I have fed 200 pounds of 'Sal-Vet' and can say that it was the best worm destroyer that I ever used. When I started to use it, I found that within twenty-four hours the number of worms expelled from my hogs was surprising."—H. C. Grundy, Walnut, Iowa.

A Great Remedy

"I can truthfully say that 'Sal-Vet' is a great remedy. Farmers all around me have been losing hogs since last fall, while I did not lose any, nor did I have one that showed any signs of sickness."—G. R. Pontzius, Newport, Iowa.

Way Ahead of All Others

"'Sal-Vet' is all right and way ahead of all other preparations for which I have paid twice the amount."—R. M. Skillen, Breeder Duroc-Jersey Hogs, Greene, Iowa.

Entirely Free from Worms

"My hogs were wormy when I received the 'Sal-Vet,' but now after feeding them a few weeks, they are entirely free from these parasites."—A. E. Baldwin, Lake Mills, Iowa.

Wants 300 Pounds More

"My hogs were in awful condition when I received your 'Sal-Vet.' I had lost about sixty, but since feeding the preparation I haven't lost but four or five. It certainly took the worms from them. I find it also got the worms in my horses. You can send me 300 lbs. more."—F. H. Stevens, Kingsley, Iowa.

What They All Want

"Am feeding my second keg of 'Sal-Vet.' It saves the hog, at least they live in hog cholera infected districts, and that is what a fellow wants."—Daniel Swindler, Thayer, Iowa.

I'll Feed Your Stock 60 Days Before You Pay

My Offer Has Saved Stockmen Thousands of Dollars

I WANT to prove to you what I have proved to thousands of Iowa Farmers—on your own stock and before you pay me a penny. All I ask is a chance to show you how Sal-Vet will rid your stock of worms, make them thrive better, look better—make you more money and lessen their liability to contract diseases and die. If it don't do all I claim I'll cancel the charge and you won't owe me a penny. Write me how many head of stock you have—

Send No Money—Just the Coupon

I'll ship enough Sal-Vet to last all your stock 60 days. You simply pay the freight charges on arrival, feed it according to directions, and at the end of 60 days report results. Then if Sal-Vet has not done all I say—if it does not rid your stock of disease-breeding stomach and intestinal worms I'll cancel the charge—you won't owe me one penny. Mail the coupon NOW—TODAY. Don't put off trying Sal-Vet on this liberal offer. Address—

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THE S. R. FEIL CO., Mfg. Chemists

Dept. IH CLEVELAND, O.

SIDNEY R. FEIL, President

THE S. R. FEIL COMPANY,

Dept. IH 11-13-13 CLEVELAND, O.

Ship me enough Sal-Vet to last my stock 60 days. I will pay the freight charges when it arrives, agree to report results promptly in 60 days, and at that time pay for it if it does what you claim. If it does not, you are to cancel the charge.

Name.....

P. O.....

Shipping Sta.....*State*.....

No. of Sheep.....*Hogs*.....*Cattle*.....*Horses*.....

Look For This Label on all SAL-VET packages. Don't be deceived by imitations.

Don't buy "Sal" this or "Sal" that, get the original genuine SAL-VET.

PRICES 40 lbs., $2.25; 100 lbs., $5; 200 lbs., $9; 300 lbs., $13; 500 lbs., $21.12. No orders filled for less than 40 lbs. on this 60 day trial offer. Never sold in bulk; only in Trade-Marked Sal-Vet packages. Shipments for 60 days' trial are based on 1 lb. of Sal-Vet for each sheep or hog, and 4 lbs. for each horse or head of cattle, as near as we can come without breaking regular sized packages.

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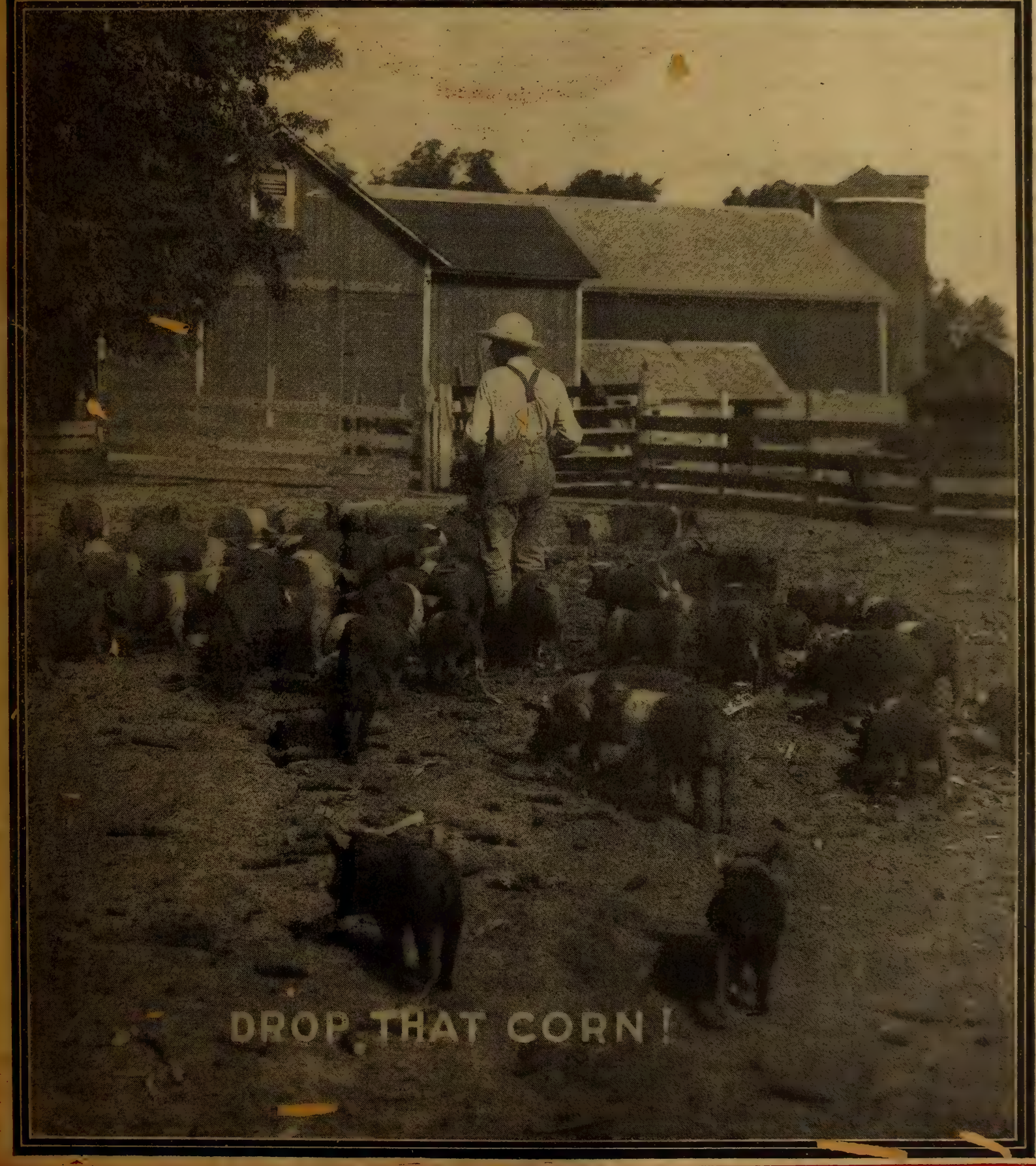
The Iowa Homestead

VOL. LVIII. NO. 47. DES MOINES, IOWA, NOVEMBER 20, 1913. WHOLE NO. 2928



Let a Galloway Engine Help Solve the Labor Problem on Your Farm

Try One on Your Farm 30 Days at My Risk

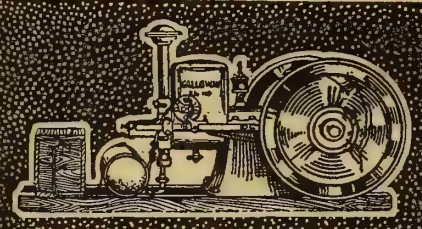
That's the best way to prove the merit of any machine. A test under actual working conditions on your own farm. That's the offer I make you on any of my engines. It's a test they have stood for years and over 30,000 Galloway customers will tell you they've made good. Listen. You and I know that the great problem on the farm today is the labor problem. It's the manufacturer's problem, too. Now, the way a manufacturer solves it is by installing up-to-date, modern machinery that will do the work of several men and in that way it's easier to get good labor. That's the only way you can solve it on the farm, by installing machines that will save a lot of time, labor and hard work, which you now do by hand or have to hire done. Isn't that a fact? All right, then you want a gasoline engine now.

Fill in Coupon Below and Mail for My New Catalog Now.

It will come the nearest to solving the labor problem for you of any machine you can buy. It will pump water, grind feed, saw wood, run the shredder, silo filler, sheller, washing machine, churn, and nearly every machine you have on the farm. It saves you time for other work. You simply can't afford to be without one. They are the cheapest help you can buy. And you want to buy the best engine that you can find on the market selling at the lowest price. That means the Galloway. No one can compete with me in price and quality, the great combination that has made my business the big success it is today. Just notice my different styles and sizes of engines shown on this page with my new, low, direct-from-factory prices. Select the engine that fits your requirements best and send for one on trial. You take no risk whatever. My engines are sold backed by a $25,000 bond. They must give you satisfaction or you can return them and I will refund your money and pay all the freight.

But I know they will please you as they are high quality engines, backed by a five year written guarantee in "black and white" on materials. Give the Galloway a thirty days' trial on your farm at my risk. Send for my catalog giving all the facts. Don't buy an engine of any style or make until you have first tried the Galloway.

Here! Select the Engine You Want for Your Work--Buy It at My New Low Direct-From-Factory Price.



Light Duty and Pumping Engines

1¾ H. P. air cooled	$26.75
1¾ H. P. water cooled	34.75
2¼ H. P. water cooled	39.50
Small Portables $31.75, $39.75, $45.50, respectively	
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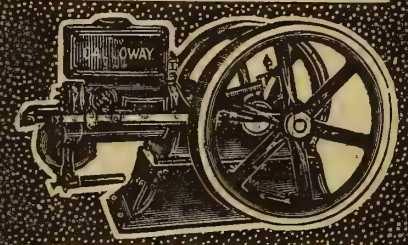

Stationary Engines

3 H. P. 8x4 inch pulley	$ 74.50
5 H. P. 16x6 inch pulley	99.50
6 H. P. 16x6 inch pulley	109.75
7½ H. P. 20x6 inch pulley	179.50
10 H. P. 24x8 inch pulley	247.50
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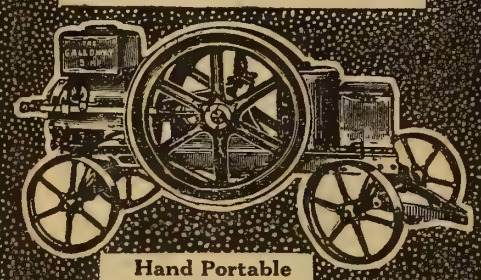

Hand Portable Engines

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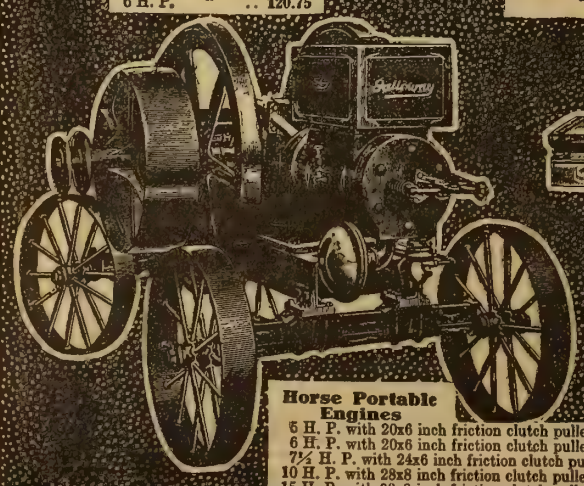
5 H. P. "	110.50
6 H. P. "	120.75



Horse Portable Engines

5 H. P. with 20x6 inch friction clutch pulley	$142.50
6 H. P. with 20x6 inch friction clutch pulley	152.75
7½ H. P. with 24x6 inch friction clutch pulley	244.50
10 H. P. with 28x8 inch friction clutch pulley	329.50
15 H. P. with 32x8 inch friction clutch pulley	432.50

Wood Sawing Outfits Complete

5 H. P.—saw, belt, etc	$177.50
6 H. P.—saw, belt, etc	187.75
7½ H. P.—saw, belt, etc	284.50
10 H. P.—saw, belt, etc	369.50

Buy a Galloway on My Direct-From-Factory-to-Farm Plan and Save $50 to $300

Keep your money at home by buying your machines at my direct-from-factory, money-saving prices. I am saving you and the other business farmers of America over a million dollars a year. My large volume and direct-from-factory, one-profit plan of selling make my low prices possible. You have no middlemen's profits to pay; no salesmen's expenses or dealers' bad debts are tacked onto the prices of my machines. When you buy on my plan you pay only one small manufacturer's profit in addition to the actual cost of materials and labor that enter into the construction of my machines. Try my plan. Save $50 to $300 right at the start on the best gasoline engine made for your work. Galloway engines are designed especially for farm work. They are easy to start, easy to operate and the most economical engines made. They are built of the very best materials in our own modern factory by skilled mechanics. They will make good for you every time.

Complete Line of Farm Engines

Our line is complete with just the style and size engine you want for your power requirements. Light Duty and Pumping Engines for running the washing machine, churn, cream separator, pump or any other small machine on the farm. Stationary Engines 3 to 15 H. P. for equipping a power plant. Hand Portable Engines 3, 5, and 6 H. P. for running any of the medium size machines no matter where located. Horse Portable Engines 5, 6, 7½, 10 and 15 H. P. for running the heavier machines and the best equipment you can buy for doing "job work." Saw rigs, 5, 6, 7½ and 10 H. P. You can't find a more complete line of engines on the market for doing farm work. And don't forget that I can supply you at money-saving prices with a complete line of machinery such as shellers, grinders, shredders, pumps, washing machines, cream separators to be run by power. Select the engine you want and send me your trial order.

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My big corps of experienced engine experts are at your service. They will help you choose the best size and style engines for your work. They will help you in equipping your power plant. They will tell you the size pulleys to use—line shafting, hangers, belting, etc., and we can supply you with this equipment at very low prices. My service department, in other words, will help you to get the most and best possible service out of the engines you buy of us. This service does not cost you one cent. It's absolutely **free.** It will save you a good many dollars in time and money. No other concern makes you this unequaled offer. It's only another good reason for your buying your engine of Galloway. Get my catalog today. Write my Service Department and give them your plans, and sizes and style of machines you want to run by power—they will do the rest.

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Remember, my catalogs are my **Only Salesmen.** They are the cheapest and the best salesmen on earth, for it costs less than one-third the price of a salesman's ten cent cigar to put one right in your mail box. Get my catalogs, that's the first step. They will show you my complete line of engines and explain my simple, direct-from-factory, money-saving plan of selling. My Big Engine Book shows my complete line. My New Pumping Engine Book shows my Light Duty and Pumping Engines 1¾ and 2¼ H. P. with a lot of Combination Outfits selling at special combination prices. Get the catalog you want. I will send it **free** postage prepaid. You are under no obligation to buy. Then as a clincher I am going to make you the most liberal co-operative, profit-sharing offer you ever heard of. My offer, if you accept it, will help you get your engine partly or entirely without cost to you in the end. No canvassing, no soliciting, just a straight business proposition

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Wm. Galloway, Pres., William Galloway Co.,
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Please send me your Big Engine Catalog and new, low direct from factory prices.
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The Iowa Homestead

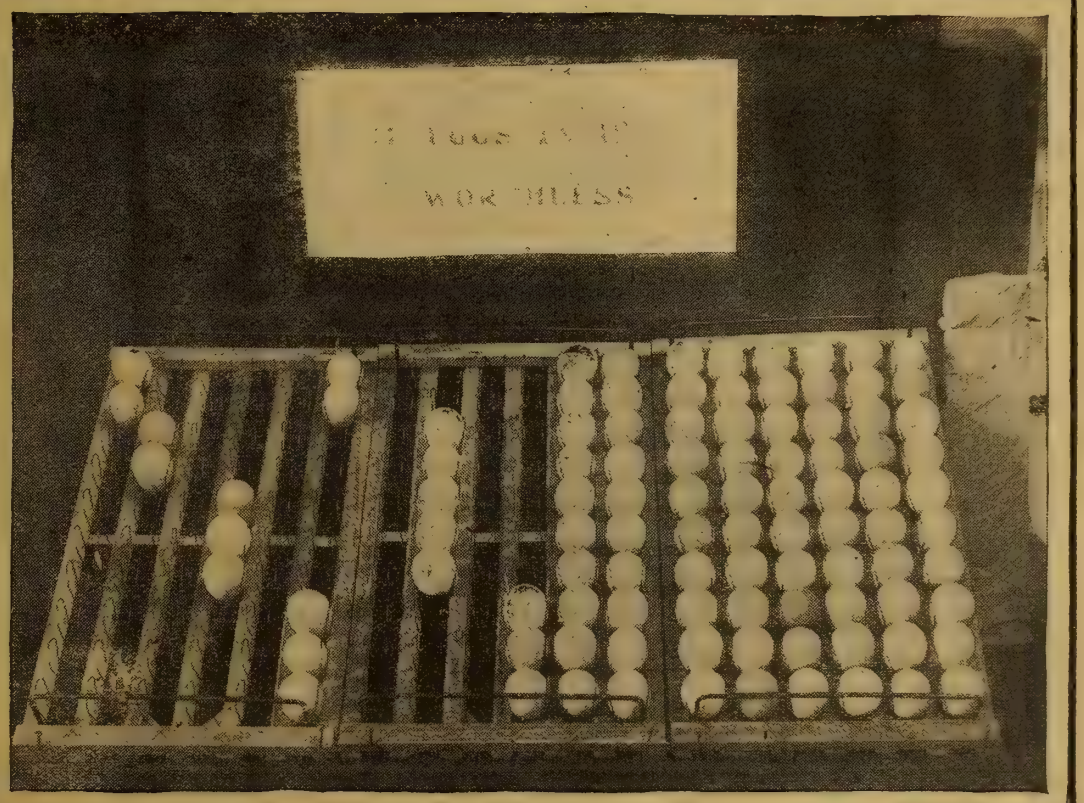
DES MOINES, IOWA, THURSDAY, NOVEMBER 20, 1913.

Saving $50,000,000 Loss on Eggs

Government Experts Investigate the Immense Annual Loss to Farmers and Poultry Raisers Because of Improper Handling and Marketing of Eggs.—By A. A. Coult

WITH the high cost of living affecting nearly everyone who has to buy provisions and food stuff, the United States government authorities are trying to show the farmers and poultry raisers how to conserve $50,000,000 worth of eggs which are lost to consumption each year through carelessness and indifference of poultry owners. The figures are so large that the ordinary person does not stop to consider what it means to them individually. But officials who have studied the matter estimate that Iowa poultrymen alone are responsible for about $4,000,000 of this annual loss, Illinois the same amount, while Missouri and Kansas contribute about $5,000,000 each. The big loss comes right from our own poultry yards and can be avoided by following a few simple rules suggested by ordinary common sense. Government officials estimate the loss at 17% of the total egg production.

H. L. Kempster, instructor of poultry husbandry at the University of Missouri, has arranged an exhibit showing 100 eggs separated into groups of the proper percentage of good and those which might have been good, as shown in the accompanying illustration. This exhibit was shown at the Missouri State Fair at Sedalia this year and attracted unusual attention. At the left are two cracked eggs resulting from careless handling. They should have been consumed at home. Next are two dirty eggs which are not very salable, but which are sent to market with whatever clean ones are to be sold. The dirty ones should be consumed at home. The next three are rotten. The next row contains five eggs which show chick development enough to make them a total loss. The three rots and the five containing chick development are results of fertile eggs and they might have been placed in the unfinished row of good eggs if the roosters had been separated from the hens at the close of the hatching season. The next five are "shrunken" or "held" eggs, caused by considerable of the moisture in the egg having evaporated through the shell. The remaining 83 are good, so far as the naked eye detects, but as most of them are fertile there has been considerable deterioration of quality and the quality will continue to decrease in proportion to the time the eggs are held before being consumed.



STRIKING EXHIBIT AT THE MISSOURI STATE FAIR, SHOWING SEVENTEEN OUT OF ONE HUNDRED EGGS TO BE UNFIT FOR CONSUMPTION.

The general impression prevails that the season of greatest loss on eggs marketed is during the hot summer months, but the United States government officials have found by careful tests that the largest percentage of spoiled eggs reaches the market during November. Their tests showed 8.33 per cent of rots and other total loss as compared with their own tests in the summer months of a little more than 4 per cent. This does not include those eggs which were stale, dirty, had blood rings or other sources of partial loss. The reason for this big loss in November is explained by the statement that the farmers begin to accumulate their surplus eggs in October and hold them for the Thanksgiving market. As most of the eggs are fertile and they are kept in a warm place for several weeks, the preventable loss is very heavy. These figures were made from country shipments of eggs to market and do not include any eggs held in cold storage.

As the roosters are the cause of nearly one-half of the preventable loss, or 8 per cent of the annual total loss of egg production, their elimination from the laying pens after the close of the hatching season will mean the conserving of $25,000,000 worth of produced food stuff, which now is a total loss, and a better quality in the $300,000,000 worth of shipped eggs which are consumed, for the surplus strictly fresh eggs are a very small percentage of the total.

Careful experiments have proven that hens will lay more eggs if the roosters are not allowed to run with them. In a farm flock there are always from six to twenty roosters which are continually fighting among themselves and worrying the hens. It really is cheaper in the long run for the farmers to sell or consume all of their adult male birds at the close of the hatching season and buy a few pure-bred utility males of some standard breed to mate with their hens at the beginning of the breeding season. The real loss falls on the producers, for the store-keepers, commission men, transportation companies and retailers figure on making a living and all but the transportation companies pay such prices as will enable them to sort out the bad eggs and still give them a profit on the transaction. It costs the railroad companies just as much energy and wheelage expense to haul a carload of rotten eggs from the Mississippi River to New York or Boston as a car of perfectly fresh eggs and they require transportation charges to be paid for eggs on the supposition that all are good. So that to the actual loss of millions of dollars' worth of food stuff must be added several more millions of dollars for commissions and transportation which must be made out of the 83 per cent of eggs which are able to pass muster at the distributing market.

"Swat the roosters" and buy automobiles with the present preventable loss on eggs is the cry in the campaign which is now being taken up, in such earnest, to prevent this all too large annual loss. The situation is the more important in that it affects both the producer and the consumer. Careless and improper handling prevents the farmer and poultry fancier from marketing a goodly percentage of the eggs which they could otherwise dispose of at a good figure. Cutting down the supply results in increasing the price demanded of the consumer, so that the evil is doubly felt.

It is highly probable that the campaign which has begun thus effectively in Missouri will spread to other grain-belt states. Exhibits similar to the one pictured herewith might well be made at all the state fairs. The public is more easily impressed with such a striking object lesson than with many exhaustive bulletins and articles. The Missouri exhibit forced home to the attention of the farmers of that state the money which they are losing every year, largely through their own carelessness. It is a safe guess that when they returned home from Sedalia, having inspected this exhibit made by Professor Kempster, they did so with the determination of cutting down the leakage in the farm income and seeing to it that the percentage of eggs marketed was a full 100. It is simply another illustration of the practical value of the state fair. These annual exhibitions cost immense sums of money, but they are second only to the agricultural colleges and the agricultural press in their educational value.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THE HORSE THAT FINDS READY SALE.

We doubt if there is any plan by which the actual value of animals can be more accurately determined than that of putting them under the auctioneer's hammer. With that system merit is very quickly determined and mediocre stuff most surely seeks its level in values. A Kansas subscriber gives his observations that were made recently at a horse sale in eastern Kansas, the results of this sale leading him to the conclusion that the draft horse has not yet been injured by the introduction of the automobile while the road horse has been greatly cheapened. Among other things he says:

I recently attended a county horse sale, held at the county seat of an eastern Kansas county. These sales are a regular thing during the fall and winter season, two sales being held each month. They have become very popular with the people who have horses to sell or wish to buy horses. Popularity is due to the fair and square manner in which the sales are conducted. Each horse sold is tagged with a number, and as the animal is led into the sale ring the clerk calls his number and tells the age and every defect of the animal. The purchaser thus buys with a knowledge of what the horse is, and should the horse prove otherwise it may be returned before the next sale date and the purchase price refunded. This means practically a two-weeks' trial of the animal. In fair weather these sales are held in a large outside enclosure and on stormy days inside a large sale barn, so the sale is held on advertised dates, regardless of weather. Buyers come from the cities and surrounding towns, as well as from the farms, to attend these sales, and there is always a good crowd of both buyers and sellers.

It was a fine day when the writer of this attended one of these sales. The sale began at two o'clock in the afternoon and between sixty and seventy horses were sold before evening. No time was lost in getting another animal in the ring after one was sold, so there was no drag to the sale. Horses sold considerably cheaper that day than they had been selling at sales before, but the quality of the stuff offered averaged poorer. All good horses sold brought good prices. By good horses, we soon found the crowd meant draft animals, not road stock, no matter how good in quality such animals might have been. We saw fancy driving horses sell below $100 that would easily have brought $150 or close to $200 before the general advent of the cheaper auto. We heard many a farmer say he was not wanting road horses, as a cheap to medium priced auto cost much less to keep than the driving team, and was much faster and could travel further, besides.

All good draft horses sold well, no doubt not as well as they will sell nearer spring, but decidedly well in contrast to the light weight road animal and the inferior animal that was neither a road or a draft animal. Any farmer, wishing to raise horses for future markets, could have received a valuable lesson by attending this one sale, a lesson that would tell him to leave everything alone except the best draft stock if he would produce what the buyer demands and for which he is willing to pay the high price.

What happened at this sale is typical of what might be learned in every state of the corn belt if an attempt were made to learn values of the different types of horses. So long as the industries of the country are carried along under normal conditions and while farming operations call for so large a number of good work horses there can possibly be no risk in counting on the drafter as a money-maker in the future. The auto truck as used in the large cities must of necessity be limited to certain tasks, particularly to where hauls are of great length, but for short work the draft horse is more economical and must of necessity be as long as the cost of maintaining an auto truck remains anywhere near its present level. Those who are owners of good draft mares have as fair a prospect for realizing good profits if these are used for breeding purposes as has been the case any time during the last quarter of a century.

PROGRAM OF INTERNATIONAL LIVESTOCK EXPOSITION.

Unless there is a large attendance at the coming International Livestock Exposition which will be held in Chicago from November 29th to December 6th, the project can be considered only a half-hearted success. This is an exposition that has been built up at an enormous cost. Premiums won there are more valuable than those offered by any other similar institution and this means that the best breeders of livestock in the country are there with their herds year after year. This year will be no exception. An educational program that excels all past records has been prepared and the entries that already have been made insure full classes.

On Saturday, November 29th, the students from the various agricultural colleges will have their innings, competing with one another in the judging of horses, cattle, sheep and swine.

On Monday, December 1st, at nine o'clock the judging program begins and the pure bred and grade steer classes will be passed on as well as the college and experiment station stock. In addition the barrows will be judged in the swine department, while in the horse division Belgian stallions will be judged and the draft geldings in harness.

On Tuesday, December 2d, the judging of the Short-horn and Red Polled classes will begin, while on that date the ribbons will be tied on the car-load fat classes and on the short-fed special car-load lots. There will be sheep and swine judging on this date as well, including the Shropshire, Dorset and Cotswold classes in the former and Berkshire and Chester Whites in the latter. In the horse division Percheron judging will begin and draft geldings in harness completed.

On Wednesday, December 3d, the Short-horn and Red Polled breeding classes will be concluded and a beginning will be made in the judging of Hereford cattle. The Clydesdales will be judged on this date and the three-horse draft teams. In the sheep classes the Hampshires, Cheviots and Southdowns will be passed upon while Poland China and Hampshire hogs will have their innings.

On Thursday, December 4th, the Hereford breeding classes will be concluded and the judging in the Aberdeen Angus and Galloway classes started. On this date Shire horses will be judged and four-horse teams in harness. In the sheep department the Oxford Downs, Lincolns and Rambouillets will be judged, it being Duroc Jersey and Yorkshire day in the swine classes.

On Friday, December 5th, the judging in the Galloway and Aberdeen classes will be finished and the Polled Durhams also completed. In the horse department Suffolk, Hackney and French Coaches will be judged while in the sheep division attention will be given to the Leicester, Romneys and Exmoor horned breed. Tamworth hogs will also be judged on this date.

Our purpose in outlining this program of events is to furnish our readers with definite information in order that they may visit the exposition at a time that will afford them the best possible opportunity to acquire information along the line in which they have a special interest.

We would like to repeat that the coming exposition is likely to eclipse all its former records and for that reason no up-to-date stockman can afford to miss it.

SOME SENSIBLE DISINFECTION METHODS.

As the season approaches for stabling livestock due consideration must be given the perplexing problem of keeping disease in check. There is need for the dissemination of more information concerning what might be called the germicidal power of various substances known as disinfectants. In applying methods of disinfection we are fighting bacterial life and therefore must use agents that are as destructive to that form of life as poisonous drugs would be to the higher animals.

Formalin may be used to very great advantage in disinfecting mangers and troughs. Six ounces of formalin to one gallon of water will give a resultant mixture of proper strength. Even in the case of the healthy herd it is a wise precaution if at intervals the mangers are given a good soaking with a mixture of this kind.

Then, of course, among the disinfectants carbolic acid must be included. A 5-per-cent solution is strong enough for ordinary purposes. It is possibly a little expensive if used in anything like large quantities, but where disease of any kind has broken out the cost of even a disinfectant of this kind is a small matter compared with the price of carelessness in case no attempt whatever is made to disinfect.

Then there are the coal-tar products with which farmers in general are familiar. After all, these products serve a most important purpose because under ordinary conditions they are not poisonous, they are not irritating to the skin of animals if rightly used and when used in their proper strength they have powerful germicidal properties. They are exceedingly well adapted to that form of disinfection that necessitates the application of a germicidal agent to the walls and stalls of stables and to the interior of sheds. These products are comparatively inexpensive because one part of the coal tar mixture is usually strong enough to be diluted with thirty of forty parts of water. The free use of any of the disinfectants that we have mentioned and particularly those of the so-called coal-tar families will contribute very materially to healthfulness of the herd.

It would be a blunder if while enumerating a few of the more important disinfectants sunlight were omitted. Where it is at all possible this effective agency should be used to the limit and that is why men are more and more remodeling their old stables, doubling in many cases, and even tripling in some instances, the window space that was formerly used. These germs cannot flourish in sunlight and for this reason one can well afford to go to some expense to lighten stables, pens and sheds.

FARM HEALTH.

A great deal is heard about a balanced ration for stock, but all too little is heard about a balanced ration for human beings. A specialist in the bureau of plant industry at Washington declares that the balanced ration of most Americans is something like this: Bread, butter, eggs, patent medicine, laxatives, meat and fish, potatoes. He recommends that this menu be changed to read as follows: Bread, butter, fruit, vegetables, greens, meat, fish, eggs.

The plea of this specialist is for the consumption of more fruit on the farm, in order to keep the doctor away. He is arguing in favor of canning clubs, similar to those which flourish so extensively among the girls of the South, while the farm boys have their corn clubs. He recommends that every family provide a diet of fruit and vegetables for every day in the year and in order to bring this about he urges the canning of more fruit and vegetables right where they are grown. His plea is as follows:

If every home kept on hand enough canned products so that there might be a can of fruits, a can of greens and a can of vegetables for every day of the winter, there would be little need for the laxatives now so regularly bought from the town drug store. There would also be great economy in the substitution of an inexpensive food for more expensive ones. More home canning, done at the proper season, would enable the average family always to have the proper quantity of canned products, and would save an astonishing amount of food that goes to waste every year. It is estimated that more than 50 per cent of all the vegetables, greens, fruits and berries that grow in this country go to waste and are actually lost to those who need them. That is simply because housewives have not learned to care for these surplus products efficiently and to make them available for the winter months by canning.

It is of interest to note that already one of the big railroad systems has built and equipped a model canning demonstration car which it sends out over its lines teaching the housewives how to can the surplus products of the farm. There is little or no ulterior motive in this work, because the great bulk of such canned goods is intended for home consumption and is not to be shipped to market. If a big railroad corporation finds it profitable to take enough interest in the farmers along its route to urge them to can fruits and vegetables for home consumption, it certainly behooves every farmer to study this important question of a balanced ration for himself and all his household so that health may be conserved and the visits of the doctor made few and far between.

PLOWING UNDER ROUGHNESS.

A subscriber, Mr. I. H. Canaday, briefly outlines his plan of maintaining a supply of vegetable matter in the soil. After removing a small grain crop Mr. Canaday sows a crop of sorghum and just before the period of frost the sorghum is turned under with a weed hook or chain, the plowing being done to a depth of at least eight inches. As the result of a long experience this subscriber finds that in a dry season land handled this way is much more productive than similar land where the stubble has simply been plowed under and no attempt is made to increase the supply of vegetable matter. Furthermore, in the case of a wet season the effect of the grain crop that is plowed under is to drain the surface soil and thereby increase the crop yield over and above what it would be under the ordinary method of handling soils.

This subscriber's faith in the plan that has worked out so well for him is not wholly based on the fact that it leads to increased productiveness, but in addition he calls attention to the efficacy of the method in freeing soils from weeds. Where the system is carried out year after year it works havoc not only with annual, but also with perennial weeds.

HUSKIN' TIME

YOU may talk of jolly April and of May time in the trees,
With the buds a burstin' open, and the little honey bees
Wadin' ankle deep in sweetness and a-singin' up above
Where the breezes are a-blowin' and a-whisperin' o' love,
But there's somethin' more appealin' in the rustle and the chime
When the katydids and crickets are a-callin' "Huskin' time!"

There's the labyrinthine summer with its blooms a-runnin' wild,
And the brooks a-laughin', laughin' like a happy little child,
And you think it 'most completeness, but it isn't after all,
For there's somethin' more appealin' in the rustle of the fall,
When the katydids and crickets in the pastures are a-chime
With the sweet content of Heaven and you know it's "Huskin' time!"

O the harvesters are happy with their brown arms full o' sheaves!
And there's somethin' in the color of the corn that interweaves
With the hazy hangin' distance, that no poet has exprest,
It's a sense of satisfaction like the blessed boon of rest;
And there's somethin' most appealin' in the rustle and the chime
When the katydids and crickets are a-callin' "Huskin' time!"

—Herbert Randall in Hartford Courant

James M. Pierce

THE PUBLISHER'S VIEWS ON TOPICS of THE TIME

THE LESSON OF THANKSGIVING DAY.

BACK in the days when the writing class in the country school toiled laboriously—every little writer with his tongue protruding from between his lips and his fingers well smeared with ink—to copy the Spencerian line across the top of the page, there was a copy-book motto to the effect that "Every cloud has a silver lining." It has taken me sixty years to realize the truth of every stroke and letter of this precept. Now, as another Thanksgiving Day approaches, and I take time to look back upon the year which has elapsed since the last day of national thankfulness, I can see, in memory, all the clouds that obscured the sun for many and many a day, but shining through them all, I can see, in actuality, the silver lining.

It is a good thing for all of us, once a year, at least, to stop and take stock. We are so busy making a living, sending the children to school, paying off the mortgage, buying new land—struggling toward some goal—that we are likely to become thoughtless, puffed up with our own greatness or cast down under what seems to be a crushing load of misery. But once a year the president turns away from the cares of state long enough to call to us to knock off work for a day and be thankful. The governor of every state echoes the call, and you and I heed it by celebrating Thanksgiving in various and sundry ways. The way in which we should all celebrate it is at home, around the family table well laden with good things to eat, rejoicing over the prosperity of the past, the pleasant prospect of the future, and the many and manifold blessings which far outweigh the trials and troubles.

"But," you say, "there isn't as much to be thankful for this year as usual. Our fields were burned out; our herds were cut down by disease; we have had sickness and trouble." You're alive, aren't you? You're well and strong, aren't you? You're surrounded by loved ones, aren't you? You have your home, your family, your friends, your hopes, haven't you? Well, what else do you need?

If I were the least bit inclined to be superstitious (which I'm not) I could sit back and wail whole volumes of lamentations because 1913 was a bad year with me personally. Let me give you a few personal, intimate facts. The year had hardly started before my publishing plant burned down, on a cold, bleak, barren winter morning, with the thermometer registering zero. With members of my family beside me, I stood in the street and watched the work of many years disappear before the ravenous flames. A sorry start for the year, wasn't it? But that was not all. The year was not half run before the Angel of Death entered the house of my oldest son and took from it my little four-year-old grandson, named in my honor, of whom we had fondly dreamed that some day he would carry on the work and perhaps do the things which I had found impossible. Still a bad year, wasn't it? But that was not all. Sickness came to other members of my household, as though the year were determined to beat me down. And yet, in the face of all this, I can truthfully say that 1913 has been one of the best years of my life; that I am, in truth and in fact, sincerely thankful.

You ask me why I am thankful. Because every trouble and every sorrow has brought me the inspiring, consoling cheer of scores, yes, of hundreds of friends; because I have learned that behind every scourge there is some plan, behind every grief some solace. The building which was burned has been repaired. Moreover, although repaired, it is to be replaced as a permanent home for my business interests, by a fine new structure, already under construction in the finest part of the city, with four times the space of the present building. I have learned, by experience, to build upon misfortunes. Having seen my business destroyed by fire twice, and the third time saved only as by a miracle, I have each time builded newer, better and larger buildings and thus grown with disaster and triumphed over adversity. For all this, I am indeed truly thankful.

The grandson who is gone has left a sweet heritage of memories; those who were sick are now recovered, and so on and on. Once we take stock of the situation, there is not a cloud without a silver lining; there is not a trouble or grief without its friendship. It means something when a friend grips you by the hand or lays his arm comfortingly over your shoulders. Next to the loved ones of our own immediate family, what surpasses a friend?

I thank Thee that as yet I need not know,
Yet need not fear, the mystery of the End;
But, more than all, and though all these should go—
Dear Lord, this on my knees!—I thank Thee for my friend.

Now isn't it the same with all of you? Hasn't every cloud of 1913 a silver lining? It was not so very many weeks ago that my mail was cumbered with letters from subscribers in the Southwest saying their corn crop was burned out, they were ruined. Yet the banks of the Southwest have more money on deposit today than ever before and the corn crop of the nation exceeds in value, by $200,000,000, the record-breaking corn crop of last year. And the very farmers who were writing in, lamenting that their corn was burning up, were the ones who were raising twenty, thirty and even thirty-five bushels of wheat to the acre, making this year's wheat crop surpass that of last year by 25,000,000 bushels. There's silver linings for you a-plenty.

I came across "a prayer of the West" in my newspaper reading recently. It was printed in a daily newspaper published in the part of the country which talked last summer of hard times and drouth, but which was never so prosperous as just now. Here is the prayer:

For the bounties of nature, for the full, rich verdure, token of the grateful rains after the parching summer, for well-stocked granaries, for the cattle of the boundless plains, for comfortable homes—for all that abundant welfare that makes possible the spiritual ideals of a nobler life;

For the season of burning drouth, for its scorching days and stifling nights, putting all our resources to the test, training us in the stern school of adversity, teaching us our weakness, sobering us, steadying us, enlarging our sympathies, making us realize our dependence on each other and on our Creator, giving us self reliance, developing those great traits which helped our ancestors conquer the wilderness;

For these, and all thy untold mercies, O Lord, make us truly thankful!

Can't every one of us, simply changing the words to suit our individual position and condition, join in such rejoicing, such thanksgiving, "for these and all Thy untold mercies?"

A GRATIFYING SIGN.

IT IS inevitable that among the farmers of the grain belt there should be differences of political opinion. We all look at things from different angles; we see things in different lights. It is altogether wrong to assume that any one political party has a monopoly on all the honest, conscientious voters. Some of my most intimate personal friends do not see things as I do; they are not in the habit of voting as I do. Am I, therefore, to assume that they are dishonest? Assuredly not. They are earnest and conscientious in their views. I believe them to be misguided, but I know them to be honest and high-minded.

But, differ as we may on the principles and leaders of the day, do we not all agree on certain fundamentals of right and wrong, precepts which are not confined to, or monopolized by, any one party? And is not one of these underlying principles, upon which all upright men of whatever party earnestly agree, just this: Successful government depends upon the consent of the governed? If this is so, is it not a sign of reform, in which we may all rejoice, that one of the great political parties is proposing so to change its manner of conducting business as to make the rank and file of the people the real arbiters, rather than any mere coterie or clique of leaders?

We may be republicans, democrats, progressives or what we will; the majority of us, I am sure, feel that the republican party is taking a step forward when it proposes a special national convention to determine how the manner of electing and seating delegates shall be changed so as to be absolutely fair to all sections of the country and prevent a repetition of the charges and countercharges, the confusion and the scandal which marked the last national convention. It is the lesson of history that minority parties play a great and important part in the success of any government. There must be the constant reminder, the fear, if need be, of the possibility of the minority party assuming the reins of government, to compel the powers-that-be to keep their pledges and serve the people faithfully. We have not yet reached that millennium where government would succeed if there were but one party, without a minority to spur the majority into action and to threaten defeat. The republican party is now the minority party; nevertheless, it should have a great and far-reaching mission to perform. Who knows but it may again assume the major position, within a short time? Who can doubt that if it is to deserve this honor, and maintain it, there must be harmony of action, true democracy both of spirit and of execution?

The cause of the republican downfall last year was more a matter of methods than of men. The custom that has prevailed for many years was to permit the small, ignorant colored vote of the South to control the republican national convention in the choice of candidates. Thus the vote of a single ignorant, shiftless negro of the levees of Louisiana or the cotton fields of Mississippi had more to do with the nomination of a republican presidential candidate in this great country of ours than had the votes of forty intelligent grain-belt farmers. The injustice was flagrant, yet it was permitted long to continue. The spectacle which we have all seen, since the reconstruction period immediately following the civil war—the presidential incumbent coming into a republican national convention with the votes of the solid South behind him, these votes being mainly of two classes, the ignorant negro and the office-holding carpetbagger—has always been revolting, for it has put to a most unfair disadvantage the millions of intelligent, patriotic republican farmers of the grain belt who have thus found themselves practically shut out in the selection of presidential candidates by a horde of ignorant blacks and corrupt whites.

If now all who are conscientious and patriotic republicans at heart will see to it that the republican national convention hereafter is controlled by men who are in favor of every state having its just share and voice, according to the votes cast for the head of the ticket at the last presidential election, one of the main reasons for the party's downfall will have been removed. This is not politics; it is not partisanship; it is common sense; it is patriotic interest in the welfare of the nation.

When this reform has been brought about we shall be moving toward a higher political level for all parties and thus the fundamental ideals upon which this country was founded shall be realized, so that we may all (republicans, democrats, progressives, or whatever the name we rally under) take a hand in bringing the nation up to that plane where it will, in truth and in fact, be an inspiration to all the nations of the world.

THE OVERWORKED FARM WOMAN.

I SHALL never forget the sympathy which welled up in my heart when I read of the poor, tired country woman who was so unfeelingly referred to by a certain member of the Roosevelt Country Life Commission because she did not feed him as well as he was used to, when he dropped in on her unexpectedly. Perhaps you remember the instance, for it attracted a good deal of attention. The country life commissioner lives in the city; he knows little or nothing of successful farm work through personal experience; in his journeys around the country, while serving on the commission, he was accustomed to being banqueted in various towns and cities, after which it was the plan to return home and write a report on country-life conditions. But before he returned, he wanted the experience of at least one meal on the farm. So he dropped in, quite unexpectedly, on a farm where the tired wife had a family of nine to look after, two of them very old men and the youngest a delicate, sickly baby, with the washing, ironing and baking to attend to by herself, unassisted. When the commissioner found himself served with the ordinary food to which the family was long accustomed he was incensed and wrote a report which was so unfeeling and so unfair that President Roosevelt himself wrote a letter of sympathy to the poor, tired, struggling farm wife. If ever President Roosevelt did a thing which showed him in touch with the rank and file of the common people it was when he turned away from the cares of state long enough to console that woman for the way one of his appointees had referred to her.

Now I see that the new secretary of agriculture, Mr. Houston, is making an investigation of farm home conditions, asking practical suggestions from 50,000 farm women. He is proceeding along right lines. What's to be gained, so far as the poor, tired, overworked farm woman is concerned, by sending a lot of city men and impractical farmers around the country in a commission, to make fun of the ordinary farm food and publish a report which not one farmer in ten thousand has ever seen? How much more effective to have the farm women themselves tell their experiences, in heart-to-heart letters, and give suggestions on how their work may be made easier! For instance, there is the letter from a farm woman in a grain-belt state, who says:

We have carried water for 200 yards for all household purposes for two generations in our family. This fall a matured life insurance policy makes it possible for us to install a modern water supply in our house and we intend to use the money for that purpose.

Now all the department of agriculture has to do is to give that woman practical advice on how to install a water system economically and efficiently; then publish the records of this case for the guidance of others. Isn't that sensible? Isn't that praiseworthy?

I can remember, as vividly as though it were but yesterday, the grain-belt farm to which I came when I left my native state, at nineteen years of age. The water supply was far removed and inadequate, so that many a time I have had to hitch up to the sled and drive to the nearest slough for a barrel of water for home use. That hard work put me in a position to sympathize with the thousands upon thousands of farm women who are drudging with heavy buckets, car-

rying the water a long distance perhaps, the weight taking the spring out of their steps and making them prematurely old, when a water-under-pressure system could be installed with the earnings of a few flocks of hens for a single year. The trouble is they don't know how to go about it.

It's been a case of improving crops and increasing beef yield; but now we're going to improve human life, and particularly women's lives, on the farms.

That's the declaration of the new secretary of agriculture, Mr. Houston. Rings true, doesn't it? If he only lives up to his expectations, he will have done a great and good work, far eclipsing the more spectacular efforts of his predecessor.

What is more important than making easy the life of the farm woman? She is becoming old ahead of her time; there are gray hairs where there should be only brown or black; wrinkles where the cheeks should be smooth; a pallor where there should be the rosy flush of health. And yet, she is rearing the boys and girls who are the foundation of our real democracy, our real prosperity. Give the farm woman a chance, I say; pay more attention to her welfare, her comfort, her happiness; put a little more of the courting period sentiment into our consideration of her daily work. It will mean a new era in farming, an era of sympathy and efficiency when such instances as the one which ruffled the sensibilities of the country life commissioner can never, never occur.

James M. Prince

PREFERS SANITARY METHODS TO SERUM.

In a recent communication to the Des Moines Register and Leader, Mr. D. A. Kent calls attention to the great need that exists for improving the sanitary surroundings of hogs. Among other things Mr. Kent says:

However commendable may be the efforts of the state and the general government in attempting to stamp out hog cholera, it must be admitted that prevention is better than cure. A river of serum accompanied with all the other medical agencies, will not save the hog until better sanitation of the food, the drink, the feed lot, the pasture and the sleeping sheds is enforced. There is not an animal on the earth, except those rendered immune by nature, that would not die off like flies, if herded and fed and sheltered in the filthy conditions surrounding the life of the hog. Man himself has always been stricken with some fatal disease when crowded and fed in filth. Colonel Georgas cleaned up the canal zone and made it possible for Colonel Goethals to complete the building of the canal, but if the government had sent a serum doctor down to Panama instead of an order to clean out the miasmatic conditions of the canal zone, we doubt whether Colonel Goethals would have been able to have built the canal, because, until the proper sanitary conditions were in force there was one laborer dying each year out of each four employed, and such mortality would probably have forbidden the continuance of the work.

The hog is the most vigorous of all our domestic animals. He can stand more abuse and neglect than any other animal on the farm and still pile up the largest bank account. Give him half a chance and he will get there. But the trouble is he does not even get the half chance. There are scores of farmers chasing over the country in $1,500 automobiles and at the same time trying to raise 200 hogs in a $40 hog house.

We must turn from medicine to better feed and care before we can hope to save the hog. Pure air, pure feed, pure water, a balanced ration, wisely fed and clean, comfortable sleeping sheds will settle the question. Of all the recent programs of education in agriculture none would be so valuable as persistent efforts to point out the errors in hog raising. Whoever will do it will overtake even Holden in notoriety.

We are producing about one hog to every acre of corn that is produced in our state. We ought to produce two. That is instead of producing 10,000,000 hogs we should produce 20,000,000, making two hogs grow where only one grew before. A little more brains and a little more energy will do it.

Unquestionably, there is urgent need for introducing more sanitary methods in handling hogs. This paper has always been strongly in favor of the individual hog-house system for the simple reason that with this plan overcrowding may easily be avoided. Where a number of individual hog houses are used they may be placed in the yards during the late fall and winter there to furnish ideal sleeping quarters for fattening pigs. In this case instead of employing a system whereby large numbers are compelled to sleep in one building they will divide themselves up in small groups and thereby live at least the nighttime of their lives under a much more healthy condition.

Every swine breeder will concede the soundness of Mr. Kent's argument because serum alone will not improve the constitutional powers of our swine population and that after all is the end for which we should work.

PROSPECTIVE STOCK CATTLE PRICES.

Stock cattle prices have declined 50 to 75 cents since the middle of October. With the marked falling off in receipts of range cattle at the markets a week or two ago there was a slight reaction towards strength, but the natural course of the market on stock cattle at this time is downward, and the slight advances will probably be more than offset by the influence of the slackening demand for thin cattle. A dealer in stock cattle and feeders at Kansas City recently gave his opinion, based on fifteen years of close observation of the market at the stock yards there.

Broadly speaking, December is the best month in the whole year to buy stock cattle, according to this expert. Most people become saturated with the holiday spirit in December, which has been given a start by the Thanksgiving holiday, and which is increased as the Christmas and New Year's festivities approach. Those parties who want stock cattle to run through the winter, as well as the majority of people, lose their keen zest for business, and procrastinate. They say, "Wait-till after the holidays." As a result, the market quiets down, and average of prices is relatively low.

After the holidays the market on stock cattle invariably advances, either the first or the second week in January. In fifteen years we have never seen it fail to gain 25 to 75 cents per hundredweight on stock cattle. Why? Because all the parties who have been putting off buying settle down to business the first of the new year, and hurry to get their cattle. The increased demand raises the price.

Another thing in favor of December buying is the fact that stock cattle are then down to bed rock as regards superfluous flesh. They do not carry a pound of washy material, which is usually lost in the transition from the range surroundings to corn-belt environment. They have been getting down to this point since the first frost. In December a man can buy his cattle to match his feed, with minimum loss in getting them accustomed to the new diet. They are in shape to go right ahead, having already touched bottom. This point, of course, also applies to January.

Someone says, "It might pay to give a little more in January." True, but the advance in price is always more than the value of the feed consumed in the meantime amounts to. Even if the program calls for very heavy feeding, there is a month's time gained in getting cattle to going right, December as against January buying.

BROADENING THE INFLUENCE OF FAIRS.

A six months' performance test has been inaugurated by the board of management of the Minnesota Agricultural Society in recognition of the importance which is attached to the dairy cow as an important factor in Minnesota agriculture. The sum of $500 will be divided into eight prizes and the premiums will be awarded at the Minnesota fair in 1914.

Those who enter cows in this contest will be supervised by the dairy division of the University of Minnesota and the six months' test may begin any time after the first of November, 1913, so long as it is completed by August 1, 1914. The individual conformation of the cow will be taken into consideration in determining the winners in addition to the net value of the butter fat and skim milk produced in the six months' test. The competition will be confined to registered cows two years old or over, owned and kept in the state of Minnesota during the period covered by the test. One condition of this contest is that the cows must be exhibited at the Minnesota State Fair next year.

The carrying out of this plan shows the possibility of extending the educational influence of the state fair. By making the test cover a period of six months artificial forcing in feeding methods can be entirely eliminated. It can be well understood that when cows are placed on exhibition next fall with their records in placard form staring visitors in the face it will impress in a new way the minds of those interested as to the real relation of dairy type and actual performance.

Congratulations are due to the Minnesota board because they have exhibited real foresight in mapping out this new educational feature.

BLACKHEART IN POTATOES.

It has recently been announced that a Wisconsin scientist, Prof. E. T. Bartholomew, has discovered the cause of blackheart in potatoes. This is the disease which causes the interior of potatoes to become blackened and in many cases to become hollow. This disease has always been thought to result from a fungous growth of some kind or other, but Professor Bartholomew has exploded this theory.

This scientist has discovered that when potatoes are closely packed in cars and an open space is allowed in the center for a heating stove the artificial heat is apt to cause blackheart. The matter has been thoroughly investigated before making this announcement, as twelve varieties of potatoes have been used in the experiment. It has been found that the keeping of potatoes in a temperature of from 100 to 104 degrees for a period of eighteen to twenty hours will result in great injury to them on account of the discoloration of the heart. It has been found that blackheart will appear not only when artificial heat is applied, but also if potatoes are allowed to overheat when too deeply covered in pits or when they are stored in warm cellars.

We regard this as an important scientific discovery and it not only relates to potatoes injured in transit, but also that part of the crop that is taken directly from the cellar to the kitchen. The disease at present causes an enormous waste, saying nothing of the inconvenience that results when blackheart is discovered after the tuber appears on the table.

The lesson to be learned from Professor Bartholomew's discovery is simply this, that under no circumstances should potatoes ever be subjected to a high temperature.

POULTRY ARE FREE COMMONERS.

There have possibly been more feelings lacerated as the result of poultry depredations on farms and gardens of the corn belt than from all other causes combined. According to a recent decision of the Iowa Supreme Court this laceration will continue because this honorable body has decided that poultry are "free commoners" and that it is therefore not incumbent upon the owner of poultry to restrain the flock. Reduced to its simplest terms this means that your neighbor's poultry are welcome to trespass in your garden, around your feed lots and to enjoy themselves to the limit in newly sown grain fields or among the ripening cereals.

The question, which was appealed from the district court, involved injury to a certain grain field resulting from the free range of a large flock of poultry, thereby making it necessary to sow the grain two or three times, incurring in this case, an actual loss. According to the decision of the highest court no damages can be collected by the injured party and the lesson to be learned from the opinion rendered is simply this, that your neighbor is the one on whom falls the burden and expense of building poultry-restraining fences if he does not want your poultry in his yards, feed lots or fields.

Statistics for the season show that in Scotland at the present time there are 6,798,807 sheep, which is a decrease of nearly 3 per cent from the previous year's numbers. In view of this decrease, there seems to be a steady rise of prices.

SILO AND ENSILAGE EXPERIENCE.

The following communication has been received from an Ohio subscriber, Mr. I. G. Shellabarger:

Silos are becoming more and more conspicuous each year and more of them will be erected from time to time as their worth becomes better known.

The value of a silo for the man who keeps rather a large number of livestock is hard to estimate. There is no other means of saving an immature corn crop to get as much value out of it as by putting it in the silo.

This year over a great area of the Ohio corn belt an early frost which was preceded by a heavy, warm rain started late corn to growing after a long dry spell and did many thousand dollars' damage to the corn crop. Many, like ourselves, had some late corn, but immediately after the frost we rushed this corn into the silo and it seems to be damaged but little. This corn, however, was discovered to contain less moisture than some that was siloed in former years. We should have liked to ensilo this corn earlier, but the corn was too immature. There were about two acres of this corn left that was not required for the silo and when husking this corn, which was a white variety supposed to be very early, it was found to contain many immature ears which made only inferior hog feed. Had it not been for the silo much of this corn would have otherwise been lost.

The writer has not fed ensilage to any kind of livestock except to sheep and cattle and only limited quantities to horses. A few farmers in our community have fed ensilage to hogs and horses, but we prefer to feed it to the former livestock. In some cases difficulty has been encountered with the horse when feeding ensilage as the digestive apparatus of the horse is vastly different from that of the cow. We have had several cases of indigestion in horses from this feed. Ensilage is also too bulky to make good hog feed. The hog must eat larger quantities of the fiber particles than is necessary or safe for his economical maintenance. Only a limited amount of corn is obtained in this way. Although some who do feed it to hogs say it is great feed for brood sows, as it keeps them stimulated and bowels gently loosened.

In our feeding ensilage to cows we feed twenty pounds twice per day to each milk cow and about the same to the young heifers. But in connection with ensilage to the milk cows they are fed cottonseed meal, oil meal or some other feed rich in protein to balance up the ration since ensilage is deficient in protein, a necessary constituent. The cows and heifers are given corn stover or clover hay as roughage.

We have had the best of results in feeding ensilage to our breeding ewes. We began feeding ensilage to the sheep about December 1st. We have had some trouble with impaction with our sheep in former years, but the trouble was that they were not amply supplied with water. We have not lost any sheep by impaction for some years, as they are given attention at once. What gave us the most difficulty in feeding sheep was the cobs. If the ensilage is cut short this will be largely if not wholly overcome.

Our lamb crop has been as large when feeding ensilage as when no ensilage was fed. In short, no appreciable difference in lamb crop was noticed in different rations. It might be added that when the ensilage is frozen the ewes are then given oats. We feed the ensilage to the sheep in open troughs and in five years' experience have never had anything but success.

For several years past, owing to short pasture we began feeding ensilage as soon as we finished filling the silo, while at other times we did not begin feeding ensilage until November 1st. We thus far have not found over eight to twelve inches of spoiled silage on top, but this season owing to the dryness of the corn at filling time we had possibly a trifle more spoiled ensilage.

With our experience we do not find a condemning feature of the silo only the expense of filling. This is rather an expensive operation, but we have one of the best feeds possible and we highly commend a silo to the man who keeps fifteen or more cows and some sheep or the farmer who keeps this number of cattle and wishes to feed ensilage to horses or limited quantities to swine.

We could call special attention to one recommendation made by Mr. Shellabarger. He points out that cows must be fed cottonseed meal, oilmeal or some other feed rich in protein in order to balance the ration. Many a man has been disappointed with the results obtained in feeding ensilage to the dairy herd when the whole fault should be placed at his own door. Ensilage is primarily a form of roughage, but if it is properly kept it is exceedingly palatable and grain fed in conjunction with it is used economically because a larger percentage of it is digested and assimilated than where only dry feeds are used. Those who are using ensilage for the first time this year should not make this fatal error and thereby carry their herd along on a productive basis equal to about one-half of their possibilities if good sense were used in balancing the ration.

LIVESTOCK ON GRAIN FARMS.

An Illinois subscriber points out some of the advantages that result from the practice of keeping considerable livestock on farms devoted in the main to grain growing. Among other things he says:

There are many reasons for maintaining livestock on farms devoted chiefly to grain growing. They should be so maintained, first, to bring fertility to the land; second, to bring humus to the same; third, to divide the labor on the farm; fourth, to consume products that would otherwise go to waste, and fifth, to bring increased revenues to the owners of such farms.

The soils of some grain farms are very rich, but however fertile such lands may be, they must be weakened in their producing power by continuous grain growing without supplying any equivalent to make up for the loss. For instance, when a bushel of wheat is grown on such soil there is taken from the land in the wheat and the straw one and three-fourths pounds of nitrogen, one pound of phosphate and one and four-fifths pounds of potash. A crop of twenty bushels will take from the soil twenty times these amounts, and elements in the soil will be reduced proportionately. It is evident that if such cropping is continued indefinitely, the time must come when the elements of nitrogen, phosphate and potash in the soil must be so reduced that the soil will not produce paying crops.

When livestock are kept upon the farm and much of the food is fed to them that is grown on the farm, fertility is put back on the land in some proportion at least to the fertility removed, and in this way the equilibrium in fertility is maintained, or at least it is maintained in part. To maintain it fully it is usually necessary to grow some legume that will take nitrogen from the air and deposit the same in the soil.

The lack of an ample supply of humus is in some instances a greater lack than the lack of fertility. Humus, that is vegetable matter, is taken out of the soil by each successive crop that is grown. This depletion of the humus puts the soil out of mechanical balance. It lessens the humus in the soil, and as it does, it decreases its moisture-holding power. It also decreases the amount of the available fertility which humus so readily supplies. To increase the humus supply the land should occasionally be devoted to some kind of grass production, the roots of which will supply the land with humus. Pastures are especially well adapted for such a use. The humus in grass roots and the stubbles of the same when they are removed are greatly in excess of the humus furnished by the roots of ordinary cereals.

The grain farmer is usually overdriven with work. He has more than he can do properly in the springtime and in the harvest. To enable him to overtake this work he must employ "hobo" labor, especially in harvest. That kind of labor is very unsatisfactory. It is labor that is furnished in the absence of a conscience, and all labor furnished in the absence of a conscience in active play is unsatisfactory labor. He must maintain more losses than would otherwise be necessary to perform his work, if it is to be done on time. He must invest in machinery to an extent that would not be called for if his work was diversified. He has a period of enforced idleness in winter, whereas if he kept livestock through all the year, he would have less labor in summer and more in winter, and in this way labor would be equalized throughout the year. No business that is healthy will overwork a man in summer and allow him to go idle through all the winter.

When livestock are kept on the farm they consume many products that would otherwise go to waste. For instance, they consume the herbage in great part, at least, that grows up amid the stubbles. This in humid seasons may become an important source of revenue. They consume the grazing that grows up in various by-places on the farm and turn it into money. They also turn straw into a marketable product. In the absence of livestock, straw is often burned.

The keeping of livestock brings materially increased revenues to the farm where they are judiciously kept. The coarse grains that are being fed to livestock are being turned into money that will give a larger return than the cash that would come from selling the grain. The time is now here when livestock brings greater relative profits than can be obtained from the sale of grain direct, because of the prices of meat. The grain crops grown will also give much larger yields on livestock farms.

Too much emphasis cannot be placed on the importance of keeping the soil well supplied with humus, and to this end no plan has been discovered that excels the keeping of livestock. While it is true that there is a slight depletion of the mineral elements in soils even under an ideal system of stock raising, yet in the majority of cases production can be increased right in the face of this fact. The increase is due in this case to improved mechanical conditions that result from applying manure to land and to a freer liberation of mineral plant foods which is the direct result of humus decay. To outline an ideal system of soil maintenance it is necessary to make reference to the addition of a small supply of phosphoric acid at certain intervals. This is the element that is drawn upon most severely in grain growing and more and more the farmers of the corn belt must come to the practice of planting their rotations so that legumes are grown at frequent intervals, manure added at certain times and, in addition, phosphate in some form applied to the soil from time to time.

IMMUNE BROOD SOWS.

There has been a great deal of talk about ways and means of increasing the livestock population of the corn belt. This, in the main, has accomplished little if anything. It is therefore most refreshing to find an instance where something of a practical nature is being accomplished toward this end.

We have in mind at this time the plan that has recently been inaugurated at the stock yards at Sioux City, Iowa, whereby typey brood sows instead of being sent to the slaughter are given the simultaneous serum treatment after which they are resold to farmers and breeders for breeding purposes. While no guarantee is placed on these sows that they will not contract cholera in the future, yet so much pains are taken in methods of treatment and in the character of the serum that the risk is reduced to the minimum. The placing of these brood sows back on the farms of the corn belt where they really belong rather than converting them into pork is a step in the right direction and, as before stated, it is about the first sensible practical plan that has been put into operation whereby the supply of at least one class of livestock will be increased in the future.

TO STUDY BEEF SHORTAGE.

As a result of a meeting held in Washington during the past week and attended by a number of agricultural authorities, it is highly probable that a national commission will shortly be appointed to study the economic phases of beef production. Last week's meeting was called by the present secretary of agriculture, David F. Houston, and was attended by a number of experts from the grain belt. One of the prominent men present was Dr A. D. Melvin, who has been chief of the bureau of animal industry for the past eight years and who has only recently returned to this country from Argentina, where he went several months ago, at the request of Secretary Houston, to study conditions of the meat industry of South American cattle-exporting countries. Dr. Melvin, it has been announced, will return to Argentina, in company with the former assistant secretary of agriculture, Willet M. Hays, and assist that country in getting its cattle industry safely on its feet, to the end that it may take higher rank among the countries of the world looked to to supply the meat of the future. A newspaper dispatch from Washington gives the following details of last week's conference:

Iowa, Minnesota, Illinois, Indiana, Missouri and Kansas, the leading states in beef production, were represented, along with the best expert authority of the department of agriculture. Prof. W. J. Kennedy was there representing Iowa.

The shortage of the beef supply was discussed at length and means for remedying it were gone over. While no formal action was taken it is likely a national commission will be named to study the problem, which is of the greatest importance in the high-cost-of-living discussion.

Professor Kennedy took the position that more economic means of beef production must be found. That beef must be produced in the future by greater utilization of roughage, that cornstalks must be used through the silo and that alfalfa must be employed to a greater extent.

He said that instead of several pounds of grain to one of hay, beef cattle must be got to market with 39 to 40 per cent grain.

The conference was one which is likely to bring important results to the country. If a commission is named it will look to find more economic ways of raising beef cattle, marketing them and getting meat to the consumer.

The personnel of the commission has not yet been hinted at, but if it is to arrive at conclusions which will be accepted as authentic and worth while, it must be composed of men whose familiarity with beef cattle conditions throughout the United States generally will give credence to their findings, not mere economic theorists with impractical ideas. No more important problem confronts the country today. The gravity of the situation makes necessary the utmost care in the selection of the proposed commission and the thoroughness with which it shall work.

WATER REQUIREMENTS OF PLANTS COMPARED.

According to the results of certain investigations carried on by the National Department of Agriculture, millet takes less water from the soil in producing one pound of dry matter than any other economic plant. Its requirement, namely, 275 pounds for each pound of dry matter produced, is exactly the same as certain weeds and it is even less than the well-known Russian thistle, which is 336 pounds.

It is rather surprising that corn with its broad leaves requires only 369 pounds whereas it takes 614 pounds of water in the case of oats to produce one pound of dry matter. Wheat requires 507 pounds, so that, after all, compared with the cereals, corn is economical in its use of water.

We were rather surprised to learn that the legumes use water most extravagantly. For instance, for each pound of dry matter produced by red clover it requires 709 pounds of water and in the case of alfalfa the requirement is 1,068 pounds of water for each pound of dry matter. Of course, it must be remembered in this connection that the legumes are very deep rooting in their habits, drawing water as they do from depths ranging between four and ten feet.

From the standpoint of grain only, sorghum or cane takes the lead, requiring 790 pounds of water to produce one pound of grain; millet follows requiring 923 pounds of water, while oats require 1,680 pounds of water for every pound of grain produced. These figures explain satisfactorily why such crops as millet and cane are grown most extensively in those regions where the rainfall is comparatively light, as these crops are able to do more business with a given amount of water than any of tthe cereals, including corn.

The hair of a dairy cow should be fine and soft; the skin soft and pliable and not too thick. A good dairy cow rarely carries a thick, stiff skin. A great deal of emphasis should be placed upon this matter in selecting dairy cattle.—Dairyman.

Ask your neighbor to subscribe for The Homestead.

The Rough Farm is a Wealth Producer

A MEMBER of a firm of real estate agents who sell hundreds of farms yearly made a statement recently that in his opinion the rough farm was the best place for a man to locate on. This successful real estate dealer gave the following reasons: The first was because the rough farm could be purchased much cheaper than a smooth piece of land; secondly, the rough farm was a desirable place for all kinds of stock raising; third, the expense of running a rough farm would not be nearly as great as the expenses of running a smooth farm. There was a reason for this. The smooth farm would be put in grain. The assistance of one or more men was required to attend a large amount of grain. On the rough farm where stock raising was the chief industry one man could manage things.

This real estate agent declared that stock raising was fully as profitable as grain raising. All things considered the man on a rough farm who gave his attention to raising livestock had twice as good a chance for making money as the man who specialized on grain upon a valuable smooth farm.

The real estate dealer told the truth. The place for a man of moderate capital is upon a rough farm. He can buy more acres for the same amount of money. The rough pasture land furnishes as good grazing for the cattle as smooth pasture. Even if the plow land on the rough farm isn't of high quality it will raise good alfalfa if the proper seeding methods are put into practice. Then cane and kafir roughage can always be raised with success upon rough land. Of course a silo will be required to store these feeds in. Some of the large stock men who are located upon rough farms have from two to three large silos. They can raise plenty of good roughness upon the plow land to fill these silos. The silage gives them a supply of winter feed for their cattle which cannot be beaten.

An example of how two men made a great success on a rough farm will be given. This success was not so large as far as dollars are concerned —hundreds of farmers make much more money—but the farm upon which this success was brought about was supposed to be practically worthless. Many men in the same vicinity had gone broke. The men who went broke had tried to farm this rough land the same as they would rich level land. The two men who succeeded bought a rough piece of land at a moderate rate per acre. They got the land cheap; but even then people laughed at them. It did look rather foolish for anyone to speculate in land of that quality, especially when the land was located in an out-of-the-way place. But these two men started in differently than many of their neighbors had done. They specialized in stock raising. They kept cows and raised calves. They kept mares and raised mules and colts. They kept sows and raised pigs. It was astonishing the number of head of livestock that they raised in the course of a year.

Little farming was attempted. The plow land on this farm was thin and was of poor quality. It was divided into small patches. There was no opportunity for using up-to-date implements. The patches of ground which were broken out were in all kinds of shape. It was impossible to have nice, straight rows of corn. The two farmers got patches of alfalfa started. They sowed lots of cane and millet. The cane yields upon this kind of land were excellent. Before the alfalfa patches got a good start cane fodder was the mainstay of these two men.

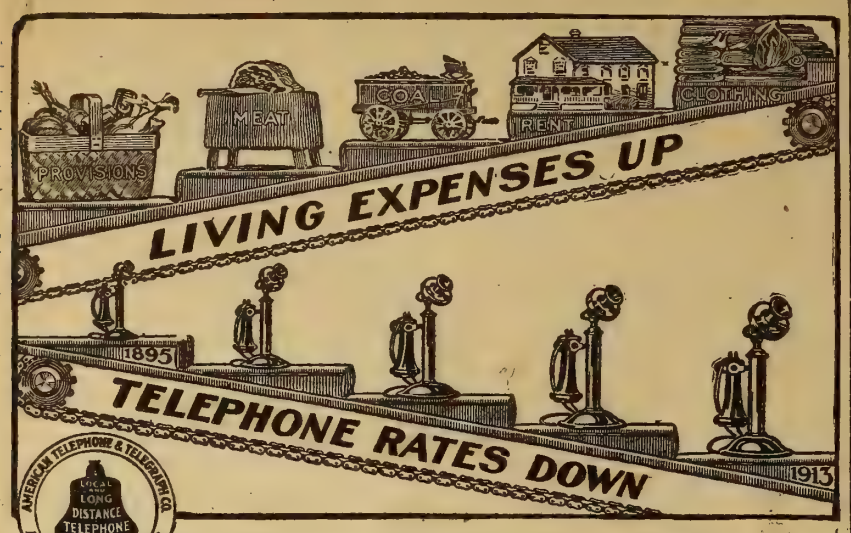
Gradually the herds increased. The hogs were usually sold early in the fall; good prices could generally be realized from them by selling to men who had much corn and no hogs.

Better grade cows were secured and dairying was carried on. The selling of cream brought in a good revenue and the milk from the separator came in handy for feeding the young shoats. The herds of all kinds of stock increased gradually. Every year some were sold; but the best breeding stock was retained.

Something over a year ago it became necessary for the partners to divide. They decided to have a sale. The sale was well advertised and the best auctioneer procurable was obtained. It was an all-day sale. While the exact figures giving the total receipts of the sale are not available, a few prices received for different animals can be given. This will prove that high-grade stock can be raised on cheap land.

A sucking mule sold for $102. The mule's dam brought over $200. Brood sows (raised on that farm) brought $25. Cows sold for from $50 to $70. These cows were all raised on this farm. Other stock sold proportionately high. One factor which increased the receipts from the sale, to a great extent, was the steers. These steers were beauties. The whole herd was raised on this cheap farm.

It was very gratifying to the partners to find after the sale was over that the net proceeds exceeded the value of the farm. There are not many smooth, valuable pieces of land in the country which will give returns to the owner like that rough farm did. The success these two men achieved was brought about by adhering to a few simple rules which must be taken into account when running a farm of this character. C. W.



Economy of the Bell System

Consider this significant fact: While most of the necessaries of life have gone up, the price of telephone service, which is one of the essential factors in our commercial and social life, has moved steadily downward.

Although a pound of these necessities still contains but sixteen ounces, the telephone user has been getting more and more service for less money.

On the average, the people of this country pay 49% more today for food, fuel and clothing than they did in 1895. Since then, the decrease in the average rates for telephone service has been more than one-half.

At the same time, the efficiency and value of the service to the subscriber has vastly increased. Today he can talk to an average of five times as many persons in each exchange as he could eighteen years ago.

This is the inevitable result of the comprehensive policy of the Bell system, which brings together the associated Bell companies and the communities they serve.

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

Commenting on a recent statement made in this paper about the plan of filling a tile ditch with the disk one of our subscribers, Mr. W. O. Atkinson, says that he has found an improvement on this plan. He uses two disks and two teams, chaining the inner ends together loosely across the ditch, changing the length of the chain to suit conditions. We are glad indeed to receive this suggestion because it sounds good to us.

The interchange of plow bottoms is a good idea, and the farmer who rotates crops, thereby having considerable sod to plow, should have two style moldboards or bottoms, as the plow makers call them, for his plow.

A good wood lot on the farm beats the coal bill. With plenty of wood to burn a man takes less interest in the coal strikes and other modern plans for increasing the price of coal about the time a person has to have it.

The owner of a wood lot should also have a buzz saw and a gasoline engine to pull it, or be on amicable terms with some neighbor who has such a rig. Making wood by the buck saw and crosscut saw route went out of date as soon as the rig was cheapened in price.

Moderate pasturing of fall wheat is a good thing, both for the wheat and the stock that eats it. One should keep down the rank growth and induce root growth and the tramping of stock sets the soil more firmly around the plants.

If you plan on doing any concrete work this fall better be about it soon.

I have done concrete work in pretty cold weather, but it is better not to do it when there is much freezing. One can cover green work with manure to prevent freezing, but it is better to do it when no covering at all is needed.

Local merchants should bid more for quantity orders than they do, by making special prices on canned goods in case lots and on other staple articles in quantity lots. By doing this they would save much of the mail order trade for themselves.

One can tell the roads that have been dragged for some years, after heavy rains. The mud is never so deep, the subsurface being much firmer, and the top dries from one to two days sooner. A heavy road drag, persistently used on grades, is the cheapest road builder there is.

Where one is to feed corn or expects to shell it, a dirty job of husking does not make so much difference, but I do not like to crib husks and corn together for long keeping. Rats and mice work in it worse if any are about. Some huskers get so slovenly with their work one can hardly tell whether they are husking or snapping.

While we all realize that more farm machinery rusts out by standing through all the year in the weather than is worn out at actual work, I doubt if there is a great deal more machinery shedded now than there was ten years ago. Here is one thing in which we have not progressed as we should. We need more machinery sheds.

Building the spreader box nearer the ground is one of the greatest improvements on spreaders in recent years. I have one of the "high up" kinds, and when I use it I am almost sorry it is in as good condition as it is. The low down box saves half the lift, and the high, hard half at that.

Some of my neighbors show symptoms of getting excited over pop corn raising. Once upon a time I raised something like an acre of pop corn, and it seemed to me that the job of husking it never would end. When I got little more for it than field corn would have brought, my enthusiasm for pop corn growing came to an abrupt end.

The warm, heavy-weight sweater coat, the kind that buttons up to the neck when wanted, is the best thing for winter wear one can buy at a reasonable price. The warm sweater coat, with a denim jacket over it, makes a work combination that beats the clumsy duck coat a mile.

ASSOCIATION MEETINGS DURING INTERNATIONAL.

In the following list will be found the names and place of meeting of the various associations that will hold annual meetings during the week of the International Livestock Show in Chicago:

Convention hall No. 1, second floor International Amphitheater.
Convention Hall No. 2, third floor Livestock Record Building. (Entrance through Saddle and Sirloin Club.)
Convention Hall No. 3, second floor Livestock Record Building. (Formerly designated as Wool Office.)
Convention Hall No. 4, second floor Livestock Record Building. (Corner room.)
Convention Hall No. 5, second floor Livestock Record Building. (Second door to left, near head of stairway.)
Convention Hall No. 6, second floor, Swine Department. (Above Harness shop.)
Convention Hall No. 7, second floor Swine Department. (Above Harness shop.)
Convention Hall No. 8, second floor Livestock Record Building.

MONDAY, DECEMBER 1.

Percheron Society of America, Congress Hotel, 8:00 p. m.

TUESDAY, DECEMBER 2.

American Shire Horse Association, Hall No. 3, 7:00 p. m.
American Polled Hereford Breeders' Association, Hall No. 4, 7:50 p. m.
National Association of Stallion Registration Boards, Hall No. 2, 7:30 p. m.
Continental Dorset Club, Hall No. 5, 7:30 p. m.
American Berkshire Association, Stock Yard Inn, 7:00 p. m.
American Aberdeen-Angus Breeders' Association, Grand Pacific Hotel, 8:00 p. m.
American Cotswold Registry Association, Hall No. 7, 7:30 p. m.
American Society of Animal Production, Hall No. 6, 8:00 p. m.
International Livestock Exposition Association, Saddle and Sirloin Club, 8:00 p. m.

WEDNESDAY, DECEMBER 3.

National Duroc Jersey Record Association, Hall No. 5, 1:30 p. m.
American Poland China Record Association, Hall No. 3, 2:00 p. m.
Red Polled Cattle Club of America, Hall No. 4, 2:00 p. m.
American Association Importers and Breeders of Belgian Horses, Hall No. 2, 7:30 p. m.
American Galloway Breeders' Association, Hall No. 5, 8:00 p. m.
American Shropshire Registry Association, Hall No. 3, 8:00 p. m.
American Hampshire Sheep Breeders' Association, Hall No. 4, 8:00 p. m.
National Lincoln Sheep Breeders' Association, Hall No. 6, 8:00 p. m.
American Cheviot Society, Hall No. 7, 8:00 p. m.
American Duroc Jersey Swine Breeders' Association, LaSalle Hotel, 8:00 p. m.
Chester White Congress, LaSalle Hotel, 8:00 p. m.
American Short-horn Breeders' Association, Congress Hotel, 8:00 p. m.
O. I. C. Swine Breeders' Association, LaSalle Hotel, 8:00 p. m.
American Rambouillet Sheep Breeders' Association Hall No. 8, 8:00 p. m.

THURSDAY, DECEMBER 4th.

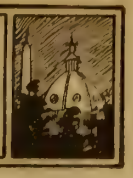
American Yorkshire Club, Stock Yard Inn, 7:00 p. m.
American Southdown Breeders' Association, Hall No. 3, 7:00 p. m.
American Oxford Down Record Association, Hall No. 4, 8:00 p. m.
American Tamworth Swine Breeders' Association, Hall No. 5, 8:00 p. m.
American Suffolk Horse Association, Breeders' Building, 8:00 p. m.
Polled Durham Breeders' Association, Grand Pacific Hotel, 7:30 p. m.

FRIDAY, DECEMBER 5.

American Shetland Pony Club, Stock Yard Inn, 4:30 p. m.

After every cutting the alfalfa field should be disked, if practicable, with the knives set not too slanting, in order to loosen up the soil well without cutting off the crowns of the plants. This regular practice of disking is very important. Sometimes a spring-tooth harrow gives even better results than the disk. After disking or harrowing, a corrugated roller will aid greatly in pulverizing and packing the loosened soil, and help to make a better and more effective soil much.

CURRENT EVENTS



IT IS NOW practically certain that a special convention of the republican party will be called, and probably held, some time this winter for the purpose of changing the manner of electing and seating delegates. The lawyers on the national committee have announced that the power to make these changes in time for the 1916 convention does not rest with the committee, but with the rank and file of the party itself. Accordingly, when the national committee meets within the next few weeks, it is almost inevitable that a convention will be called for the purpose of making these reforms, which were demanded at the Chicago convention last year but which the element in power at that time and that convention absolutely refused to grant, thus resulting in the movement which shortly resulted in the organization of the progressive party. It is proposed that hereafter delegates to the republican national convention shall be proportioned not according to the number of congressional representatives, as at present, but according to the actual vote cast for the head of the republican ticket at the last national election. This will mean the cutting down of the representation of the South very materially and the proportionate increase of the representation of the voter in the republican strongholds of the North and East. The reform is one which has long been demanded and now seems to be inevitable. While this discussion is going on, eastern newspapers have been busying themselves talking about possible republican candidates in 1916. One Washington paper brings out Justice Charles E. Hughes for president and either Senator Cummins, of Iowa, or Senator Borah, of Idaho, for vice-president. Senator Cummins has announced that he does not favor the use of his name in this connection, holding that if the republican party is to be rehabilitated it must be by the rank and file and not according to any pre-arranged plan made by leaders or newspapers.

GENERAL HUERTA, of Mexico, continues to defy the United States and while the situation is growing more critical daily there have been few actual incidents of note during the past week. Perhaps the most important was the visit of William Bayard Hale to the leader of the Mexican revolutionists, General Carranza. Dr. Hale is a close personal friend of President Wilson and is making an unofficial investigation in Mexico, reporting directly to President Wilson. He spent a whole afternoon with the rebel chief and his advisers, discussing the possible effect on the Mexican situation of this country lifting the embargo on arms and ammunition. The Mexican rebels have secured an option on the guns captured from the Russians by the Japanese, in the late war, but they cannot actually secure these guns at present, because every port of entry is controlled by the federal troops. Should the United States lift its embargo these arms could be shipped to the Mexican rebels over the United States line and they would then be armed for a determined assault upon the federal strongholds. General Carranza has declared that if he had plenty of arms he could overturn the Huerta government in ninety days. Inasmuch as Huerta has shown no intention of acceding to the ultimatum of the United States and relinquishing the office of president, there remain but two courses of procedure for this country: intervention, which means war with great loss of life, or recognition of the rebels and permission to them to secure arms of or through this country. The latter alternative seems the one most likely to be taken, unless there should be unforeseen occurrences shortly.

IN HIS travels through South America, Theodore Roosevelt is delivering a number of notable addresses. At Buenos Ayres recently he recited his political creed, listing among the more important reforms which he hopes to secure the following: "We propose to make the process of constitutional amendment far easier, speedier and simpler than at present. We wish to make the people the supreme arbiters between their servants, the court and the legislature, when the court and the legislature differ as to the proper interpretation of the constitution which the people made. We know that it is folly to try to make the fool the equal of the wise man, but we intend to control the greed and cunning and brutality in high places just as we control greed and cunning and brutality in low places. We intend to provide for the mother whose husband, bread winner, has died. We intend to protect the right of children to their childhood. From the men and women who work hard with clean hands we intend to try to lift the burden of haunting fear of an old age of undeserved penury and misery. We intend that machinery shall be the hand-maiden and not the mistress of humanity. We intend to make the government a most potent instrument in working for the uplifting of mankind." The colonel refuses to commit himself on the question of whether or not he will be a candidate for the presidency again in 1916, but evidences multiply that he will be in the thick of the fight for the progressives then fully as much as last year. It would not be surprising if the contest were to be narrowed down, three years hence, to the same two men, Roosevelt and Wilson, as in 1912. Albert Beveridge, of Indiana, has been mentioned as the progressive's next standard bearer, but there is no definite indication that Colonel Roosevelt intends to relinquish command.

THE cost of living having advanced 7 per cent within the last four years the arbitration board, to which was entrusted the grievances of the eastern railroad men, decided in favor of a 7 per cent increase in train men's wages. It will be recalled that a few months ago something like a hundred thousand eastern train men proposed to strike unless granted an immediate advance in wages, the advance reaching practically 15 per cent. Congress took the matter in hand and adopted an amendment to an existing law by which the whole affair could be submitted to an arbitration board, consisting of employes and the government. It is this arbitration board which has investigated and found that the cost of living has increased 7 per cent since 1909 and which orders train men's wages to be increased proportionately. Like almost all such findings, the decision is a compromise, granting about half what the train men asked and yet at the same time making concessions which the employers refused to make. The new system is a great improvement over the old strike system, with its attendant misery, suffering, stagnation of business and even loss of life.

ONE of the severest early winter storms in many years visited the East, and particularly Ohio and Pennsylvania, last week. In Pittsburgh a foot of snow fell within twenty-four hours, while throughout Ohio the snow on the level was twenty inches, the drifts being five feet deep. Railroad transportation was badly crippled, while a number of accidents occurred on lake steamers. Senator Cummins, of Iowa, with 300 fellow passengers, was snowbound on a train in Pennsylvania, the entire number going without food for twenty-four hours, until rescued by farmers of the vicinity. The storm was unusual for November, so far as intensity was concerned. It was confined largely to these two states, the remainder of the country enjoying good weather.

Indiana authorities estimate that more than half a million hogs died from disease in that state in 1912, and that the consequent loss was more than three and one-half million dollars.

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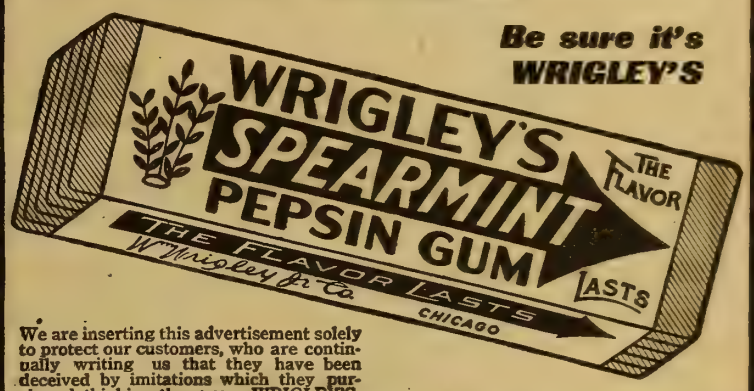

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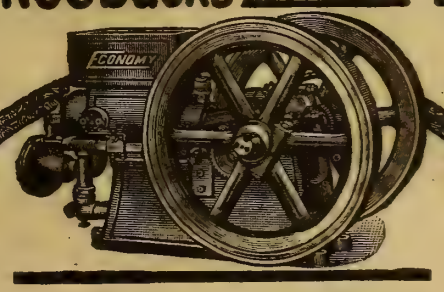

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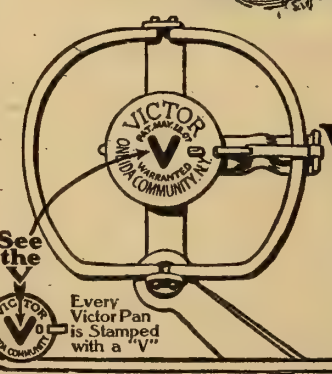

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LAW QUESTIONS CONSIDERED.

INFRINGEMENT OF PATENT.

A Subscriber, Unionville, Iowa.—A holds a patent right on a certain kind of hog house. Has any other person a lawful right to take a patent of the same, and make similar ones for his own use, without A's permission?

Answer.—No other person has such right, and if any person does make hog houses like the one A holds a patent on, even for his own use, A can recover damages from him, and restrain him by injunction from making or using them. The same law applies to any patented article.

HUSBAND AND WIFE—HIRED MAN.

A Subscriber, Mt. Ayr, Iowa.—A and B are husband and wife, and B claims that there is a written contract between them, signed by both to the effect that when they separate B is to get one-half of A's property. They are still living together. C hired A to work for him, and B has given C notice to pay A only half of his wages, and to pay her the other half. Is C required by law to do this, considering the alleged contract between A and B?

Answer.—He is not. C is liable to A alone for the wages A earns, and B has no interest in such wages. A can recover all his wages from C by law if C refuses to pay them.

GIVING LIQUORS TO MINORS.

A Subscriber, Cresco, Iowa.—We moved from the southern part of the state to this place, about ten miles south of Cresco, about four years ago. We have three boys, the oldest being nineteen years old and they had never tasted strong drink till we came here. In this part of the country beer and whisky, sugar and water with alcohol, and such drinks are passed around during theshing seasons, and at public sales, to men and boys, and sometimes men get so drunk they don't know what they are bidding on at a sale. Is it lawful to give away intoxicating liquors to men and boys in this part of Iowa?

Answer.—The law of Iowa provides that no person by himself, agent or otherwise, shall in any manner procure for, or sell, or give any intoxicating liquors to any minor for any purpose, except upon written order of his parent, guardian, or family physician, or give to or in any manner procure for, or sell the same to any intoxicated person, or to one in the habit of becoming intoxicated. The penalty for a violation of this law is a fine not less than $25 nor more than $200. and costs of prosecution, and imprisonment in jail till fine and costs are paid.

DIVORCE IN NEBRASKA.

A Subscriber, Neb.—A husband and wife have made their home in Nebraska for five or six years, and both of them want a divorce. How long will it take to obtain a divorce?

Answer.—If the parties agree and conspire together for the purpose of obtaining a divorce, it cannot be obtained at all, but if either of them has good cause for divorce against the other, it can be obtained. Either party may obtain a divorce from the other, for any of the following causes, viz.—adultery, extreme cruelty, desertion or abandonment for two years, physical incompentency, habitual drunkenness and conviction of a felony. Where cause actually exists, a divorce may be obtained in from two to six months.

TEAMS AND AUTOS PASSING—NEW LAW.

A Subscriber, Ossian, Iowa.—What is the new law in Iowa concerning the passing of teams and motor vehicles on the public roads?

Answer.—The last legislature passed a new law regulating the operating of motor vehicles and teams on the public roads. It provides that "Persons on horseback, or in vehicles, including motor vehicles, meeting each other on the public highway, shall give one-half of the beaten path thereof by turning to the right. Whenever a person in any vehicle shall approach from the rear upon the public highway and desire to pass, it shall be the duty of the driver or operator of such vehicle ahead, to give one-half of the beaten path thereof, upon proper signal or request by turning to the right. The vehicle, approaching from the rear, shall turn to the left, and shall not return to such road or path within less than thirty feet of the team or vehicle which has been passed; provided, however, that such vehicle need not give such right of way, when it would jeopardize the safety of the driver or operator to do so. Failure to comply with the above shall be deemed a misdemeanor. and punishable as such."

MEANING OF RENTAL CONTRACT.

A Missouri Subscriber.—A rented his farm to B for one year, B to pay as rent two-fifths of the grain raised, and one dollar per acre for pasture and hay land. It was understood that millet sown should not be allowed to go to seed, and that A should have two-fifths of it. (1) Has B a right to raise millet on some of the best plowed land, and make it into hay, claiming all of it by paying A only one dollar per acre for the ground on which it is raised? (2) Has B a right to sub-rent part of the land and allow sub-renters to raise millet, and pay A only one dollar per acre therefor, giving A none of the millet?

Answer.—(1) If B raises millet, A is entitled to two-fifths of the same under the contract. B cannot keep all the millet raised, and pay A only $1 per acre for the use of the ground upon which it is raised. (2) The same principle applies in case B sublets part of the ground for raising millet. A is entitled to two-fifths of it.

DIVISION OF ESTATE IN NEBRASKA.

A Subscriber, McCook, Neb.—A man owning property in Nebraska died without making a will, leaving a wife and one daughter. The daughter is married and has two children, both under age. How is the man's estate to be divided according to the laws of Nebraska?

Answer.—The widow is entitled to what is called the "widow's allowance" including wearing apparel, household and kitchen furniture, and property which was by law exempt to her husband as head of the family, and suitable provision for the support of the widow for a period not exceeding one year. After such allowance and provision is made for the widow, she is entitled to one-half of all the remaining property, real and personal, and the daughter is entitled to the other half.

COLT KILLED BY AUTO.

Mr. W. H. Miller, South English, Iowa.—A was driving an auto up hill at a speed of about twelve miles an hour, and met a boy driving a team hitched to a spring wagon, with a young colt following. A turned out of the road to the right, and the boy turned out the other side, and the colt went in the middle of the road, and did not seem scared till the auto was even with it, when it suddenly turned and jumped in front of the auto and was struck and crippled and died from the injury. Who must bear the loss?

Answer.—The owner of the colt must bear the loss, unless A was so careless or negligent in passing, that the injury to the colt was the result of such carelessness or negligence, in which case A would be liable for its value.

STALLION SERVICE IN OHIO.

An Ohio Subscriber.—A bred two mares to B's stallion, terms $20 to insure mares in foal. Five months before foaling time, B sent A notes which state that charges for service are to be three months after service. Nothing was said at time of service, about three months. A believes that neither mare is with foal. Can B recover service charges from A by the law of southern Ohio?

Answer.—There is no law for southern Ohio on the subject, which does not apply to the whole state of Ohio. Under the terms of the contract B can recover the service charges whenever the mares are known to be with foal, and not before.

CIDER VINEGAR—FOOL LAWS.

A Subscriber, Geneseo, Ill.—Many farmers in this part of the country make pure cider vinegar and try to sell it at the grocery stores, but the proprietors of the stores will not buy it, claiming that there is a law in Illinois forbidding them to sell vinegar unless it tests 45 per cent. What is the law of Illinois on this subject?

Answer.—The law of Illinois provides that cider vinegar shall contain not less than one and six-tenths grams of apple solids, and not less than twenty-five hundredths of apple ash in

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100 cubic centimeters, and must be branded with the name of the fruit from which it is made, and contain 4 per cent by weight of absolute acetic acid, and no foreign substance. The Illinois law on the subject is only less absurd than the Iowa law. Both require the farmer who makes cider vinegar for sale, to be an analytical chemist, a trained mathematician, and a profound philosopher.

HOG-TIGHT PARTITION FENCE.

Mr. F. E. Wakeman, Bedford, Iowa.—(1) A and B wish to maintain a hog-tight partition fence between their farms. No streams or creeks cross the division line. If A's hogs get through B's part of the fence, and destroy some of B's corn, to what extent would A be liable to B for damages? (2) Can A compel B to fence across a creek or stream hog-tight on B's part of the division line, and maintain such fence solely for A's accommodation?

Answer.—(1) A would not be liable for damages because each agreed to maintain his part of the fence hog-tight, and it is up to B to see that his part will turn hogs, and if they get through his part from A's side, it is the result of B's negligence. (2) If the line fence has been divided between them and a creek or stream crosses B's part, he must make his fence hog-tight across the stream, provided A has made his part of the fence hog-tight, even though B keeps no hogs.

County Demonstration Agent.

IT MAY be well at the outset to admit that there is considerable objection among the farmers to the idea of having these demonstration agents. At the same time I am confident that it will be found that the best farmers believe in the principle of a county expert. We must go through a period of discussion until the majority of farmers have the correct understanding of the idea.

Jethro Tull, nearly 500 years ago, wrote a book that had for its central idea that "tillage is manure." He did not know about bacteria and the distribution of plant food, but he had discovered the benefit in good tillage, and we are preaching and practicing it today. Fitzherbert, in 1532, wrote in his "Boke of Husbandry:"

An husbande cannot well thryve by his corne without he have other cattell, nor by cattell without corne, for els he shall be a byer, a borrower, or a beggar.

Thus we see that some of our favorite agricultural doctrines are rather old. If these two fundamental truths were known so long ago, why have they not been practiced by everybody? The decalogue contains enough law and advice for all the world. Why was anything else ever written? Christ gave the gospel of love. Why was anything else ever written? In agriculture, as in morals and religion, the old, old things need repeating.

Washington and Jefferson were good farmers, and the Dutch and the Quakers who settled in southeastern Pennsylvania were good farmers evidently practicing the principles of Tull and Fitzherbert. During the first half of the nineteenth century several pamphlets on agriculture were printed and a few periodicals were published in the eastern states, all offering advice to the farmer. About the middle of the century some of the thoughtful men of America began to advocate the establishment of agricultural colleges, and in 1859 the state of Michigan decided to have a college of agriculture. In 1862 the Hon. Justin Morrill, of Vermont, introduced his bill in congress for the establishment of an agricultural college in ever state. In a few years every northern state had accepted the provisions of the law and had accepted the government aid for such colleges. The southern states, after the close of the war, began accepting the provisions of the law, and now every state has an agricultural college, giving advice to young farmers.

The second great step in agricultural history was taken in 1887, by the passage of the Hatch act, to establish an experiment station in every state. These experiment stations were for the purpose of carrying on investigations in soils, crops, breeding and feeding of animals, growing fruits, etc., all for the purpose of discovering new truths that might add to our agricultural wealth. And now there was the peculiar situation of spending millions of money to teach agriculture to the few boys who could attend the agricultural college and find out truths about agriculture, and not spending a penny to carry on these new and old truths out to the millions of people who could not attend college. Later the practice began of publishing bulletins reporting the details of experiments. These bulletins were usually technical, and then sent to a comparatively few. It is admitted that only a few ever receive the bulletins, and only a few read them understandingly, and but a small minority put the discoveries to a practical test on their own farms. And, therefore, it must be admitted that only a few people derive any practical benefit from the agricultural college.

Farmers' Institute meetings are helpful, but they lack definiteness. While at these meetings there is always a lot of discussion about the actual conditions in each particular community, it is yet impossible for the trained men from the agricultural college to get in touch with the actual problems of the farmer. And so it seems to me that the district and the county demonstration agents must be accepted as the next step to be taken. The man who objects to this ought to object to the agricultural college, and to the institute, and to the agricultural lecture or discussions at the grange, and to the printing of bulletins or books on agriculture, and to the United States Department of Agriculture, and to the farm papers, and he should never ask advice from anybody else, but he should farm as though he were the only man in the world. The agricultural college gets thousands of letters asking advice about every conceivable agricultural subject. The advice would have more value if given after an inspection of the man's farm or his stock.—[J. H. Miller in Kansas Year Book.

The cattle insurance societies in Holland usually insure all kinds of horned cattle above a certain age, but a number of them are confined exclusively to milk cows. Most of the societies require their members to insure all their healthy cattle above a certain age, except those fattened for slaughter. There were, in 1911, 885 such societies, with 89,748 members and 377,540 insured animals, so that, on the average, a Dutch cattle insurance society consists of 101 members, each of whom insures 4.2 cows. The twenty-two registered cow clubs in England and Wales in 1911 had an average of sixty-nine members, each of whom insured 3.0 animals. The death-rate in 1911 in Holland was 2.8 per cent, in England 2.6 per cent (2.2 per cent in 1910).—[London Livestock Journal.

The folly of the color craze in cattle is one which crops out from time to time on unlooked-for occasions and always to the discredit and damage of the cattle breeder. Only recently we are advised that a public sale of Shorthorn cattle, which was made up of solid red animals, failed because the buyers were against red cattle and in favor of roans. It is only comparatively a few years since buyers insisted that they must have red cattle and forced high-class white roans to the shambles, when their merits entitled them to prominent places in breeding herds. At the sale in question, good cows sold at prices which would only be fair for average brood cows.

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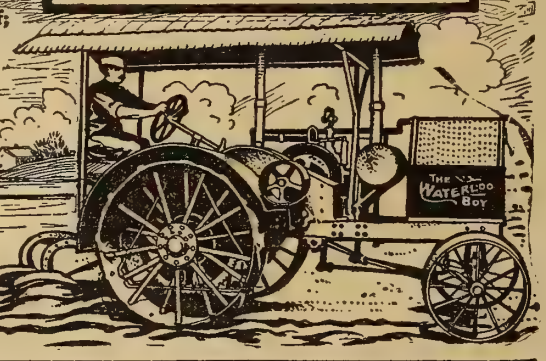

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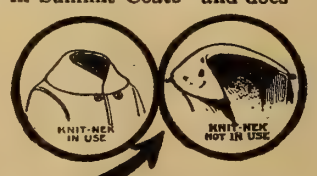

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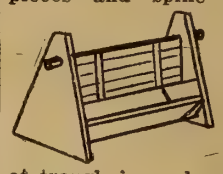
HINTS-SUGGESTIONS-DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

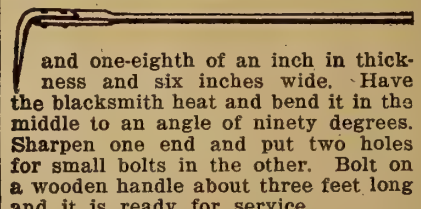
HANDY TROUGH FOR PIGS.

To make this trough take a plank two inches thick and length and width suitable for your needs. Saw in two pieces and spike together in "V" shape. Use the same kind of material for the end uprights. Spike to the end of trough. Bore a hole about thirty inches from top of trough in each one of uprights for swinging door to work in. Make the door of common boards. The swinging door enables you to clean trough and prepare food in it. When ready withdraw the slide and let door swing to natural position which is just over center of trough. The pigs will not run back and forth over the trough while eating, and their meal will be clean.



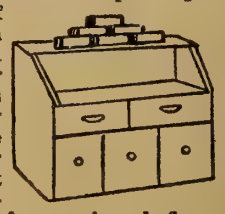
Instrument for Loosening Shock Corn.

Here is a device for loosening shock corn or fodder from the frozen ground in winter which one of our subscribers likes better than a hoe. Take a piece of strap iron about eight inches in length and one-eighth of an inch in thickness and six inches wide. Have the blacksmith heat and bend it in the middle to an angle of ninety degrees. Sharpen one end and put two holes for small bolts in the other. Bolt on a wooden handle about three feet long and it is ready for service.



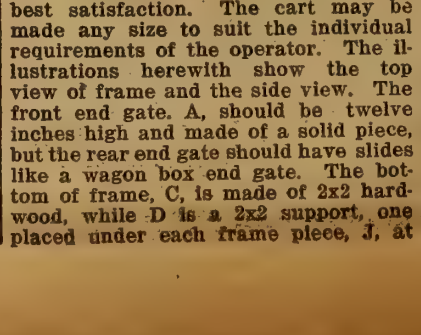
A Homemade Kitchen Cabinet.

A handy kitchen cabinet may be made from an old piano box and four cigar boxes. Saw the top corners off leaving room for shelf on top and put in a wide shelf below as shown in illustration. A long drawer or two small ones may come under this for the table linen. The lower part of cabinet may have a drawer on each side for meal and flour. The door in center below is for the kitchen utensils which may be hung on small nails on either side. The kettles can be set on bottom of cabinet. The cigar boxes on top may be used for salt, soda, baking powder and spices. This when painted white is ornamental as well as useful in any kitchen.



An Extra Strong Hand Cart.

A hand cart is useful on every farm to haul milk from the stable to the cooling place, to haul grain, feed, fence supplies, water, etc. The cart should be strong and serviceable with a good iron axle that will not break when needed most. Secure the wheels and arch axle of an old walking cultivator from some old iron dealer if you have none yourself, as this is the best thing usually found for the purpose. However, any good iron wheels with an axle which the blacksmith can furnish at slight cost will serve the purpose to the best satisfaction. The cart may be made any size to suit the individual requirements of the operator. The illustrations herewith show the top view of frame and the side view. The front end gate. A, should be twelve inches high and made of a solid piece, but the rear end gate should have slides like a wagon box end gate. The bottom of frame, C, is made of 2x2 hardwood, while D is a 2x2 support, one placed under each frame piece, J, at end of I. The figure, E, represents the iron support, F, the axle, G, 2x2 end piece mortised in J, H, strengthening irons to prevent twisting of frame, J the 2x2 side frame and K, the handle mortised to sides of frame, J.

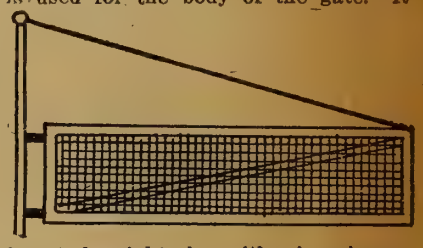


A Feed Rack Made From Old Boards.

A feed rack like the illustration shown is made from odd pieces of boards which can be picked up on almost any farm. For four head of horses plan a rack about twenty feet long. Make the frame of poles or planks. The ordinary rack is about four feet high. Cut the pieces of boards the right length and nail them on endways, or, properly speaking, upright. Match them evenly and you will have a perfectly tight rack. This is the least expensive type to build. When it is desirable to have a back for the rack it is made from two-foot boards nailed to the tops of the four-foot uprights.

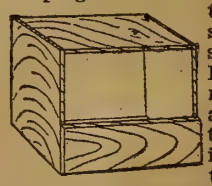
An Up-to-date Gate.

The frame of this gate is made from boards six inches wide and an inch thick. Of course the gate frame is cut to any size the maker desires. One brace is placed corner ways across between the frames. Field fencing is used for the body of the gate. It is cut the right size with wire nippers and attached to the frame with small staples. The gate is suspended from a long pole set solid in the ground. To make this post solid set it in concrete. The gate is fastened to the pole with large hinges, then a wire cable or small chain holds the weight of the gate up to the top of the pole.



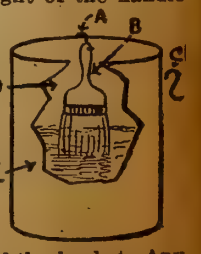
Tar Paper For Nest Bottoms.

A sheet of tar paper, the size of the bottom of the nests, is a great help in keeping down lice and mites. Sometimes the sheet is saturated with a standard lice killer. However, this is not always advisable on account of the danger of tainting the eggs, but if they are gathered often it is not likely to, with the nest well filled with clean, bright straw. A good-sized handful of unslacked lime placed in the bottoms of the nests weekly is a great aid in preventing lice also.



Paint Brush Holder.

Farmers use paint brushes from time to time and always have considerable trouble cleaning them after use. If not thoroughly cleaned the brushes will harden. When brush is set in water the weight of the handle pressing down on the bristles warps them out of shape, but by following the method explained the brushes may always be kept pliable, in good shape and ready for instant use. The figures A and B show the brush hanging on hook on the side of the bucket. Any tin bucket will answer the purpose. Figure C shows the proper shape of hook which may be made of wire, the top end being hooked over the buck-



et and the brush being attached to the bottom by means of a quarter inch hole in handle. Only enough water should be put in bucket to cover bristles. A paint brush should never be put in water until it has been in paint or oil or the water will ruin its shape and make it soggy.

Community Co-operation Needed.

INDUSTRIAL life is daily becoming more and more complex. From the average farm comes a greater diversity of products than from any factory. The producing of crops and of livestock are as widely different as the manufacture of dry goods and of hardware, which no single factory ever attempts to undertake.

The community idea of practice in agriculture is being brought about by several separate and diverse factors and has made rapid headway along certain lines in recent years. One of these has been the steady spread of the belief in the brotherhood of man as an industrial as well as a religious dogma. Another and more directly potent factor is the belief, dominant in some farming communities and existent in all, that the producer does not get a fair share of the profits resulting from the sale of farm products. This has led to the formation of such co-operative agricultural bodies as the Farmers' Union and similar if less extensive organizations of farmers, such as creamery and elevator companies; cattle and sheep producers' and shippers' associations; fruit, truck and grain growers' associations; and the like. Some of the latter have arisen through the founding of new crop industries or the extension of crop industries to new localities, and the necessity of finding or creating a market for the products.

Still another form of co-operation, though not necessarily entailing permanent organization, has been induced by direct economic problems connected with crop and stock production. Such, for instance, are community campaigns against noxious weeds, insect pests, fungous diseases, animal diseases, cattle thieves, and the like.

The benefit which may accrue from the co-operative regulation of crop varieties or cropping methods in any given community will vary with the crop and the uses to which it is to be put. The direct result may be to handicap the operations of some insect pest, as the cotton boll-weevil; to control some troublesome weed pest, as the Russian thistle; to avoid injury by some fungous disease, as smut or rust in wheat and oats; to gain access to profitable and truck crops; to enable the profitable sale of new or improved crop varieties, as durum wheat or long staple cotton; to prevent the results of undesirable cross pollination, as in cotton and corn, or to avoid mechanical mixture and consequent lowering of grade and value, as in most cereal crops.

Community co-operation may well be directed toward the prevention of such cross-pollination or of any mixing at all, since the crossing of varieties of the same color is undesirable because effecting uniformity of height, maturity and other characters. Owing to the readiness with which the pollen is carried by the wind there is danger of mixing not only in adjacent fields on the same farm, but on adjacent farms as well. The ready solution is to restrict by agreement the varieties grown in the community. This restriction will also be helpful in facilitating the profitable sale of pure varieties at the local elevators, since mixing different colors in the bin or car lowers the grade and price.

Increased community attention to early varieties, especially in northern states, may be stimulated by the recent promulgation of corn grades based on the moisture content. As these are adopted, a greater premium will be placed on dry, well-matured corn, and in the North this is most likely to be obtained from the fields of early maturing sorts.

The chief problem at present in obtaining a supply of good seed is in properly drying it and keeping it dry thereafter. Seed corn not infrequently contains 40 or even 50 per cent water. When placed in the ordinary farm storage there is always danger that it may not have sufficient ventilation to prevent heating and molding or sprouting and also that it may not dry rapidly and completely enough to avoid serious injury from freezing temperatures. It is often desirable to hasten the curing process or ward off early freezing temperatures by means of artificial heat. Usually this cannot be done safely and economically on the individual farm. P. C. Taff recommends the building and proper curing and safe storage from frost, moisture and vermin. He estimates that for about $350 a house can be constructed sufficient for 300 to 400 bushels of ears. This is estimated at twice the quantity actually needed by fifteen or twenty farmers, to whom the average initial cost would be only $20 or $25 apiece. The upkeep, of course, would be only a slight annual expense.

Wheat is the staple food grain of the human race. In the United States and Canada it is grown annually to the extent of about 55,000,000 acres, yielding an average outturn of about 840,000,000 bushels. Whatever effects the production of wheat, interests the people of the world. One of the most evident facts in the wheat-growing areas is the mixture of varieties. The admixture may consist of one or many kinds, sometimes as many as eight or ten varieties are present in addition to the one supposedly grown. These may represent only a fraction of 1 per cent of the total crop, or as much as 40 or 50 per cent in extreme cases. The loss resulting from such mixtures is not necessarily proportioned to the quantity of mixture present. A small percentage of the variety having different kernel character may lower the grade when ten times as much of a similar variety may not affect the market price at all.

A mixture of hard and soft common wheat or a mixture of common and durum wheat would be really serious in its financial effects. A mixture of two varieties with similar kernel characters would result in no appreciable commercial disadvantage, no matter how different the varieties might be in outward appearance.

Some striking examples of the need for communal action in wheat production may be cited. When the durum wheat was first grown in the United States the farmers could find no market for it as wheat, but were compelled to accept feed prices for it 20 to 25 cents a bushel less than for other wheat. The millers did not want it because it required special tempering to prepare it for grinding. They also asserted that its flour was of little value for bread-making when ground. Doubtless it was in demand for export to be used abroad in making macaroni and semolina, but the growers often were isolated and the quantity tributary to many elevators was small. During succeeding years the spread in price between durum and common wheat has been closed gradually until the crop of 1912 sold at a premium over common wheat. If, in the early days of durum wheat production, communities where this wheat was especially adapted had combined to produce it in quantity and to obtain a fair price for it, the long period of discrimination against it would have been much shortened. Considerable profit to the growers would have resulted from such action. These arguments still hold good in localities where durum wheat is being newly introduced since there is bound to be discrimination where the grain is presented in less than car lots.

Conditions similar to those described existed when the hard red winter wheats were first brought to the central plains area and community co-operation would have done much to relieve the onerous situation. The same conditions are occuring today, to some extent, in the Great Basin and Pacific Northwest where the hard red winter wheats are being introduced rapidly. Considerable prejudice against them has been developed by certain milling agencies and only

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Keep Dealer's and Jobber's Profits In YOUR Pocket

DO you know that wherever you live *you* can now buy coal straight from the mines at wholesale prices, the prices your *dealer* has to pay?

Do you know that this winter you can save from $50 to $100 on your coal supply—have it delivered promptly—the cleanest, best heat-producing coal you ever used?

It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

Our great mines near Vincennes, Indiana, produce enormous quantities of the finest coal in the country—the coal that is famous for its remarkable heat unit efficiency. We ship everywhere direct from mines in carload lots this splendid guaranteed fuel.

Tecumseh Coal

Save $50 to $100

on your winter's coal supply. We know that seems too good to be true, but it is an absolute fact that hundreds of people far and near are already buying Tecumseh Coal from us at wholesale and making this marvelous saving.

Not only is Tecumseh the best heat giving coal—but it is *all coal*—cleaned at the mines by the most perfect system ever installed.

No matter how big your coal bills have been in the past—no matter how much you have fattened the jobber's and dealer's profits—the time to turn your back on the old costly round-about way of buying is now. Begin with *this* winter to make this real saving.

It is plain common sense for you to save money by dealing *direct with the mines.* You owe it to yourself to find out the facts and prices—to learn more about Tecumseh Coal. All we ask is the opportunity to quote you prices—to prove in actual figures the splendid saving you can make.

This should interest you whether or not you intend to buy a full car of coal.

Club with Your Neighbors

If you cannot use a whole car—25 to 40 tons—you can easily arrange with your neighbors to divide up the shipment and still make this handsome saving on your winter's coal.

This money-saving plan is too important to be set aside. The amount of waste money you have been paying your dealer belongs in your own pocket. Keep it there. Right now take the first step. It obligates you to nothing. Just fill out and mail us the coupon in this advertisement. The prices we quote will positively surprise you. But do it now before the matter slips your mind. Address

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Gentlemen:—Am interested in your proposition of better coal for less money. Please quote prices, freight included, delivered at my nearest railway station, on the following coals:

No. of Cars.....Kind of Coal.....

No. of Cars.....Kind of Coal.....

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where they are produced in quantity can they be marketed at full profit in a region of soft winter wheats.

There are many other advantages to be derived from growing a single variety of wheat, oats or other small grain in any particular community. One of the commonest observations in the cereal-growing areas is the mixture of varieties which appears commonly in the fields. These mixtures greatly reduce the value of the crop for seed purposes, even if they do not cause a lowering of the market grade. They often entail direct loss through nonuniformity in ripening and differences in length and strength of straw, disease-resistance, adaptability to soil types and climatic conditions, and other similar characters. In some seasons and in some places these factors do not appear important and even the agronomist may assume that they are negligible quantities. The crime of growing mixed varieties may thus be neglected or condoned. There is an almost universal law of nature, however, that some—time, somewhere, the hidden defect will be revealed.

Two points should be held in mind. First, that the very idea of mixtures should be persistently discredited as being fundamentally wrong from the standpoint of good farming. Most growers will not be able to distinguish between the mixtures which may not cause loss and those which will inevitably do so. Secondly, no investigator can predetermine when, in an apparently harmless and profitable mixture, one variety shall be taken and another left, through some change in the environment conditions. Only in purity is their safety.

Another advantage of pure varieties is the better yield which usually results if the proper variety is grown. The man or the community may not receive a better price for the pure seed, but would be profited in any case by the increased yield. It should not be forgotten that the neighborhood separator is a powerful factor in mixing the varieties where many are grown.

Increasing the Meat Supply.

OUR meat supply can be maintained or even increased in the following ways: By the revival of beef cattle raising in the corn belt and its extension in eastern states. Up to the time of the rapid increase in the price of farm lands, farms in the corn belt where beef cattle were raised were common. The rise in value of land and the increase in the price of corn caused pastures to be plowed up and the beef cows disposed of. A reaction is now setting in which promises to become important. A similar movement is noticeable in the eastern and New England states. Success depends upon the utilization of pastures and cheap roughage.

By the use of the dual-purpose cows. In strictly dairy sections, especially those producing market milk, the dairy cow is the only one to be considered. Her calf is an incident—a necessary evil. The production and marketing of milk is the dairy farmer's business, and he cannot afford to let his attention be diverted from the main matter in hand. On thousands of diversified farms, however, especially where cream is sold to "centralized creameries," only a few cows are kept, and they are only part of the farmer's business; the milk is but one of several sources of income. In such cases the cows should produce calves that will make profitable feeders.

By raising sheep extensively in the corn belt and eastern states. The importance of the wool industry causes the farmers to overlook the value of sheep for mutton and as weed destroyers. A small flock of sheep of one of the mutton breeds should be kept on every farm to graze the roadways, the stubble fields after grain is cut, and the cornfields after the corn is full grown. Both wool and lambs are salable.

One of the best opportunities for sheep feeding will be found in the irrigated West. Proximity to the range and the great value of alfalfa hay for fattening sheep make this business attractive.

By increasing hog production on the irrigated farms of the West and by making pork production an adjunct of the creamery wherever the conditions permit. The irrigation farmers have a splendid opportunity for the profitable production of pork of the highest quality. Pigs can be raised at a minimum cost on alfalfa, and should then be finished on grain, barley and peas. A brood sow can be wintered on alfalfa hay and a few sugar beets daily, without grain.

At creameries, where no use is made of skim milk or buttermilk, pig feeding should be an important sideline. Corn and milk make an economical ration for fattening, and one which produces pork of excellent quality.

By increasing the production of beef cattle and hogs in the South, The South is the only section of the United States where cattle can still be raised, fed and sold at a profit of from five to six cents per pound. The tick has been almost the only drawback to cattle production in the South, but its passing is simply a question of time and industrious perseverance.

The hog is the beef steer's boon companion. He is increasing in numbers in the South, and southern farms will in time supply the pork eaten by southern farmers, and perhaps a good deal for the market as well. The wonderful development of the boys' corn clubs is being supplemented by the organization of boys' pig clubs. The boys of the South have been shown how to grow corn; they are now being shown how to feed it to hogs.

By increasing the poultry output of the farm. Poultry and poultry products have profound influence on the meat supply, but less attention is probably paid by farmers to the breeding of farm poultry and their care than to anything else on the farm. With easy possibilities for rapid improvement by the use of pure-bred males, our farm flocks still remain, as a class, decidedly underbred.

Almost every section of the country can produce chickens. Every farm could maintain a larger and a better flock. The South offers unusual opportunities for the production of poultry on the farm, on account of the early laying season, and the girls' poultry clubs, now being organized as supplements to the canning clubs, promise to become an important factor in the increase of the farm poultry industry, not only in the South, but in other sections of the United States as well.—[By Geo. M. Rommel, Chief of Animal Husb. Div. Bur. of Animal Industry.

The Agricultural bank, which was founded by the government of the Philippines about four years ago for affording relief to Filipino farmers from the oppressive interest rates charged them by private money lenders, has passed the experimental stage and is proving an immense success, notwithstanding serious difficulties. The operation of banks in the islands is difficult because of faulty land titles. Titles are of the most mixed description, involving royal grants, improperly settled estates, doubtful court decrees, imperfect surveys and many other conditions making absolute ownership difficult, if not impossible. To correct many of these evils the government some years ago established a Torrens systems of land registration by which titles to land are cleared and government deeds given for land so registered.—[News Item.

Comparisons based on a butter-scoring contest so aroused the citizens of Rome, South Carolina, that they have erected a dairy barn and milk room on the grounds of the local school, in order that the children may learn dairying as a regular part of their school work. Accommodations have been provided for five cows. Boys and girls of the seventh and the eighth grades are studying the best methods of dairying under the direction of an extension worker from Clemson Agricultural College.

Corn Crop Worth Most in History

THIS year's corn crop promises to be the most valuable this or any other nation ever has produced, although the department of agriculture's preliminary estimate of production, indicates it will be more than 500,000,000 bushels less in size than the record crop of last year, and the smallest since 1903. Based on the department's figures of 70.7 cents per bushel, the average farm value on November 1st, the crop as now estimated is worth $1,741,353,019, while the value of the 1912 record crop was $1,520,454,000. The previous most valuable crop was that of 1909, when it was worth $1,652,822,000.

The department's preliminary estimate of production increased by 90,000,000 bushels the estimate made in October and also that made in September. This was taken to indicate that the damage from the very severe drouth in the middle West was somewhat overestimated. The department's final estimate of production next month may show further increase in the size of the crop.

The greatest damage from the drouth is indicated in the figures for Kansas, which show the acre yield there to have been reduced to 3.2 bushels, compared with 23 bushels last year; in Missouri, where the yield was 17.5 bushels, compared with last year's 32 bushels, and in Oklahoma, where it was 11 bushels, against 18.7 last year. In Illinois the yield was 13 bushels below last year's yield, in Iowa 9 bushels, in Nebraska 9 bushels, Missouri 14.5 bushels, Indiana, 3.7 bushels, and Ohio 5.2 bushels. Details of the report follow:

Corn—Total production, preliminarily estimated, 2,463,000,000 bushels, compared with 3,124,746,000 bushels last year. Yield per acre, 23.0 bushels, compared with 29.2 bushels last year, and 27.0 bushels, the ten-year average. Average farm price, 70.7 cents per bushel, compared with 58.4 cents last year. Quality, 95.8 per cent, compared with the ten-year average. Corn of 1912 crop remaining on farms November 1st was 137,972,000 bushels, compared with 64,764,000 bushels of the 1911 crop remaining on farms November 1st last year.

Buckwheat—Total production, preliminarily estimated, 14,455,000 bushels, compared with 19,249,000 bushels last year. Yield per acre, 17.2 bushels, compared with 22.9 bushels last year and 19.8 bushels the ten-year average yield. Average farm price, 75.5 cents per bushel, compared with 65.5 cents last year. Quality, 95.5 per cent of the ten-year average.

Potatoes—Total production, preliminarily estimated, 328,550,000 bushels, compared with 420,647,000 bushels last year. Yield per acre, 88.2 bushels, compared with 113.4 bushels last year and 96.0 bushels the ten-year average yield. Average farm price, 69.6 cents per bushel, compared with 45.5 cents last year. Quality, 93.3 per cent, compared with the ten-year average.

Sweet Potatoes—Total production, preliminarily estimated, 55,760,000 bushels, compared with 55,479,000 bushels last year. Yield per acre, 95.0 bushels, compared with 95.2 bushels last year and 91.0 bushels the ten-year-average yield. Quality, 99.4 per cent of the ten-year average.

Flaxseed—Total production, preliminarily estimated, 19,234,000 bushels, compared with 28,073,000 bushels last year. Yield per acre, 7.9 bushels, compared with 9.8 bushels last year and 9.0 bushels, the ten-year average. Average farm price, 118.7 cents per bushel, compared with 133.4 cents per bushel last year. Quality, 101.8 per cent, compared with the ten-year average.

Tobacco—Total production, preliminarily estimated, 903,875,000 pounds, compared with 962,855,000 pounds last year. Yield per acre, 789.9 pounds, compared with 785.5 pounds last year and 824.0 pounds, the ten-year average. Quality, 97.4 per cent of the ten-year average.

Wheat—Total production, preliminarily estimated, 753,233,000 bushels, compared with 730,267,000 bushels last year. Yield per acre, 15.2 bushels, compared with 15.9 bushels last year and 14.2 bushels, the ten-year average. Average farm price, 77.0 cents per bushel, compared with 83.8 cents last year. Weight per measured bushel, 58.6 pounds, compared with 58.3 pounds last year and 57.8 pounds, the ten-year average.

Oats—Total production, preliminarily estimated, 1,122,139,000 bushels, compared with 1,418,330,000 bushels last year. Yield per acre, 29.3 bushels, compared with 37.4 bushels last year and 29.8 bushels the ten-year average. Average farm price 37.9 cents per bushel, compared with 33.6 cents last year. Weight per measured bushel, 32.1 pounds, compared with 46.8 pounds last year and 31.5 pounds, the ten-year average.

Barley—Total production, preliminarily estimated, 173,301,000 bushels, compared with 233,824,000 bushels last year. Yield per acre, 23.9 bushels, compared with 29.7 bushels last year, and 25.5 bushels, the ten-year average. Average farm value, 54.7 cents per bushel, compared with 53.8 cents last year. Weight per measured bushel, 46.5 pounds, compared with 46.8 pounds last year and 46.0 pounds in 1911.

Hay—Total production, preliminarily estimated, 63,460,000 tons, compared with 72,691,000 tons last year. Yield per acre, 1.31 tons, compared with 1.47 tons last year and 1.43 tons, the ten-year average. Average farm value, $12.26 a ton, compared with $11.80 a ton last year.

Final estimates of the crop reporting board giving the harvested acreage, production and value, of important crops of the United States will be announced by the department of agriculture Monday, December 15th.

CONFUSION ABOUT SWINE DISEASES.

To the Editor of The Homestead:

In my articles on the treatment of hog cholera, contagious pneumonia, etc., there seem to be some confusing points which have bothered some of you readers and these have been referred to me for explanation. The following communication demands that some of these points which seem conflicting be straightened out:

How are we to understand just what Mr. Beverly means? He claimed in his first article that the failure of the serum was due to the hogs having typhus fever to the extent of 75 to 90 per cent of Hamilton county and 50 per cent of the state, and not the cholera. He now comes back in his second article and advises vaccination as the only remedy, claiming it is a secondary infection following cholera. Now will he be kind enough to inform us how we are to follow his advice? He also warns the farmers against using some of these fool medical remedies as he terms them, but in the same article claims he has used one of them on several herds which he thought not advisable to vaccinate. One herd was treated at the very outset of the outbreak when only two or three had died out of a herd of seventy, then goes on and gives an example of a herd of 100 where they had lost twelve head before vaccinating which saved about 70 per cent of the rest. Then blames this farmer for telling his neighbors what had been used in the herd when he thought they were getting well, all of them having died afterwards, claiming they might have been influenced from vaccinating and saving their hogs. This farmer surely feels grateful to him for his service and advice. We in this neighborhood believe that vaccination for cholera will save the hogs if administered in time; even after the cholera has broken out in the herd it will save a good per cent of them if their fever is not too high and the serum is good, the only trouble having been that we could not get half what has been needed here this fall.

In my first article where I claimed that the failure of vaccination is not due to poor serum, but a complication of diseases, I believe that I am correct. As to poor serum all companies selling serum in the state of Iowa are under a bond of $1,000 to insure their putting out a good quality of serum and I believe most of them are doing so. I have used a large amount of serum during the past summer and fall months and have had but very little trouble from serum.

In my advising vaccination as a treatment for these diseases I gave what I am positively certain is the only thing that can be done that will give satisfactory results. As stated before, cholera seems to be the common carrier of these diseases and with that stamped out there is a better chance of saving the hogs than otherwise without vaccination.

As to using the calomel and ammonia treatments I will say that a farmer is informed of the complication of disease existing and refuses to vaccinate, but chooses to try some other treatment recommended by the veterinarian, it is up to him to give the best he knows of under the circumstances. As the calomel treatment was highly endorsed it was the one I recommended. The ammonia was stated to be nearly as specific in these cases, a druggist informing me of the excellent results obtained, so in the next case this was tried without any success. I do not see how the writer of the above letter can blame me as he does for doing what was asked and required of me after the owners refused to vaccinate. It is beyond the

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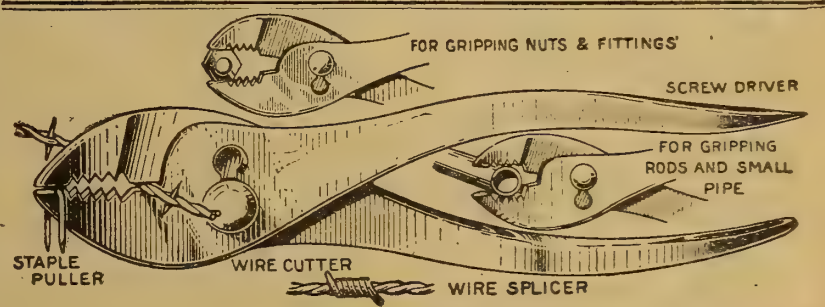

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power of the veterinarian to vaccinate a farmer's hogs unless he so wishes.

As I did not go into detail on some of these points I can readily see where some of the readers have considered that I was turning tables, so to speak. It is impossible to give all details in an article of this kind due to lack of time and space, but inasmuch as there seem to be only a few who have been confused by these points I hope that this explanation will prove sufficient. A. L. Beverly.

INDIVIDUAL MERIT AND GOOD BLOOD.

To the Editor of The Homestead:

The success of any breed of livestock rests on the cardinal principles of merit and good blood. The achievements of all successful breeders of livestock clearly teach that he who attempts to establish a meritorious and permanent herd on any other foundation is building on the sand. Good blood does not necessarily mean that an animal must be bred along certain lines prescribed by dame fashion, but it is imperative that it should have coursing through its veins the blood of an ancestry that for many generations has proven its merit in the field of accomplishment. In different periods of Short-horn history, there have been bulls that proved wonderful sires that were not themselves sufficient individual merit to be prize winners in strong competition, but they had much more than ordinary quality and were the produce of ancestors of real merit. While the merit which they had inherited had not been intensified in a superlative degree in them, it was in their blood in such abundant measure that excellence of form and carriage was reproduced in their offspring.

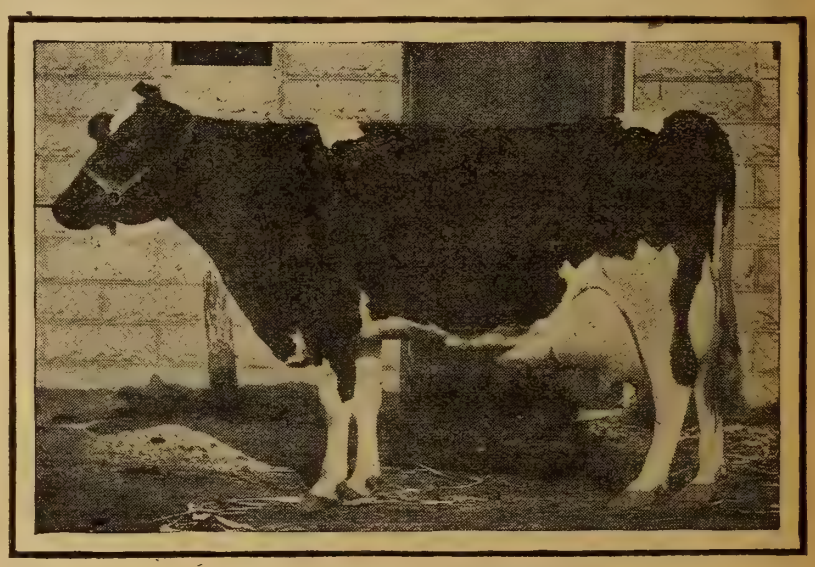
On the other hand, some bulls that have been noted prize winners have proven indifferent breeders. This, however, is the exception, the rule being that such rare merit will be reproduced, and the only safe method in selecting sires is to get the best that can be obtained.

Unfortunately this rule has not always been followed by many Short-horn breeders, for the reason that there are not always enough first-class bulls to supply the demand and some breeders will use a second or third-class bull of popular breeding rather than a better one of mixed blood lines. In consequence many strictly choice bulls have done only limited service in pure-bred herds or have gone to the range or the stock yards. Some ten months ago the writer decided to give a series of articles on some of the more prominent present-day sires and show bulls. Requests to the owners of these bulls for information concerning them met with a successful response from a few and no reply from others. In a previous article a brief record was given of the wonderful influence of Whitehall Sultan, Choice Goods, Cumberland and Cumberlands' Last. In this paper it is a pleasure to speak briefly of Avondale as a wonderful sire and a very successful prize winner. No other bulls of modern days have given to American herds as many herd bulls as Choice Goods and Whitehall Sultan, and the great merit of the latter sire is better expressed perhaps in Avondale than in any of his many worthy sons. In point of breeding nothing more can be desired, so the great success of Avondale as a prize winner and a sire of prize winners is not a matter of chance, but is the result of inherited merit coupled with intelligent management. He began his show yard career in 1905 when a calf and has been wonderfully successful. A complete and detailed list of his prizes would be too long for insertion here, but from a statement of his winnings at state and national shows from 1905 to 1910, county and district fairs not being included in the list, I summarize as follows:

Twenty-seven firsts, nine seconds, five thirds, eighteen champion and eleven grand champion prizes. This excellent record is being duplicated by some of his sons and daughters, which proves that his own merit is transmitted to his offspring. In fact, it is in the ring for get of sire where Avondale has been unusually strong. Private and public sales are the test of popularity of herd bulls, and judged by this gauge, Avondale has a most excellent standing. Twenty of his sons and daughters have been sold at an average of $1,230, and his produce for four years from 1909 to 1912 inclusive, sold at private and public sale, averaged $705. The value of such bulls to their owners cannot easily be estimated and the good they will do in improving and refining the breed is very great. There is no intention of lauding Avondale to the exclusion of other great bulls, but Short-horn breeders can afford to rejoice in the achievements of all such sires and to welcome the day when they shall be more numerous. But while the records of such bulls are a source of encouragement to all Short-horn breeders, there is also inspiration in the reproductive merit of thousands of cows of the breed, many of which are never known to history.

With the information about Avondale is some interesting data relative to three cows purchased by Carpenter & Ross, at the dispersion of E. S. Kelly. These cows were Imp. Avalanche 2d, Imp. Rosewood 86th and her heifer calf, Imp. Rosewood Pride. Imp. Avalanche produced three calves that were sold for $4,325, five calves from Imp. Rosewood Pride brought $5,980, and she has a 1913 calf at side, while six calves from Imp. Rosewood 86th have been sold for $5,630, and she and one heifer are in the herd. From these figures it will be seen that from the purchase of two cows and a heifer calf this firm has realized $12,935, and still has two cows and two calves on hand. There is certainly good money in choice Short-horn cows.

B. O. Cowan.



CUSHA NETHERLAND TWISK 85945.
Holstein cow owned by Elliott Bros., Woodward, Ia. See field note on page 37.

Since July 15th you can not legally ship hogs into Colorado, nor move them within the state, without making affidavit (which must accompany the shipment) that they have not been exposed to the infection of hog cholera and upon reaching their destination (unless for immediate slaughter) they must be kept away from other hogs for a period of eighteen days.

Ask your neighbor to subscribe for The Homestead.

COMMERCIAL CLUBS AMONG FARMERS.

To the Editor of The Homestead:

Country life is the ideal life for the upbuilding of a strong physical and moral manhood and womanhood. It has been, sad to say, deficient in resources for the upbuilding or intellectual and broadening characteristics. This is not true in all localities, but in too many it is true. Farming, too, is not so productive financially as it once was, due to increased production and a larger increase in expenses, than in income per unit of products sold.

John Lee Coulter says, "Farm life is not what it should be, nor what it can be made to be, and it is not what it must be made to be if it is to be placed on a level with the city." From our own observation we all can see that the above statement is true. Wisconsin farmers are yearly moving to town.

"Help is too hard to get;" "Everything is so high, that we can't make it pay;" "My boys all went to town and I couldn't hire help to do the work," are the reasons we hear on every side.

The farmers' commercial club will prove to be a great factor in removing these objections to country life, for through such organizations the social and intellectual life can be brought to the equal of the city. Bright young men and women will be attracted to the farm, as a place of gaining a livelihood, health and enjoyment. Through these organizations better methods of farm management, soil, crop, livestock and road improvement can be discussed and cooperative associations organized to manufacture and sell their products and purchase supplies as well as furnish some of the comforts and convenience of life, such as the telephone, central laundry, etc.

Mr. Geo. W. Russell said in an address at the annual meeting of the Irish Agricultural Organization Society in December, 1909: "The fact is that farmers have allowed the control of their industry to slip out of their hands and they are squeezed because the organized industry always unloads its burden on the unorganized. If farmers are to retain a surplus of wealth beyond the bare necessities of life, if they are ever to see in the rural districts any of the comforts and luxuries of the city, they must make it their steady, persistent and fundamental policy to work towards complete control over the manufacture and sale of all of the produce of the countryside, its livestock, its crops, its by-products, and the manufacturing businesses connected with these, so that they can act in their own interests through their own agents in distant markets, and push their produce with the energy of self interest."

Commercial clubs among city business men have become to be a great factor for good in the cities of Wisconsin. The great good which they have done has been along many lines. They have brought new manufacturing enterprises of their cities, increased the flow of trade, improved the streets and parks, arranged social and educational entertainments for the public in general.

These clubs, however, are not so plentiful among the farmers of the state, due probably to the fact that farmers live too far apart to form these clubs readily. However, that a commercial club for entertainment, educational instruction and for improvement of the financial and social sides of life, can be organized among the farmers, has been aptly demonstrated at Baraboo, Wis.

In November, 1905, the farmers surrounding the city of Baraboo, Wis., met and organized the Skillet Creek Club. It has now seen eight years of very active existence and as we shall see has been a great power for good along many lines.

The present enrolled membership is seventy-six, the ages varying within the range of limitations prescribed by the constitution, which says: "Any person may become a member who is old enough to be interested and young enough to enjoy the meetings." The membership largely consists, of course, of adults.

The club was organized for social and educational entertainment, but in addition to this there has developed a closer fellowship which has permitted the operation of a co-operative creamery.

Mr. William Toole, one of the original members of the club says: "We feel that this community has been greatly benefited by our club, both socially and materially. Through essays, discussions and various intellectual efforts we have learned that there is a large amount of excellent literary talent among our members. In useful activities through committee work we have also learned that our members possess an exceptional amount of business ability. We have sought the good qualities of our members and have been abundantly rewarded."

The club has been helpful in promoting permanent road construction. The town of Baraboo is well in the lead in construction of macadam roads. The county fair is one of the cleanest and best in the state of Wisconsin and due, in a large measure, to the influence which this club exerted. The club has also been actively engaged in rural school improvement, and has taken in G. K. Davis, the county superintendent of schools, as a member. It was also active in the last election and succeeded in making the township of Baraboo a "no license town," in spite of the fact that Devils Lake summer resort is within its limits.

Through its efforts rural telephone lines have been established which have added greatly to the social and material side of the community.

An outside speaker is usually invited to address the club in order to bring in new and scientific ideas along lines of farm life and the business of farming. Among these have been Prof. R. A. Moore, Professor O'Cock and Professor Taylor, of the University of Wisconsin Agricultural College, and Presidents Smith and Snyder of the county training school. There have also been editors, city school superintendents, city officials, ministers and other professional men. Through their efforts the Sauk County Order of the Wisconsin Experimental Association and the Sauk County Life Association were formed.

Meetings are held every two weeks from November to April, and once a month during the summer. Included in the regular meetings are the banquet, the corn show, Halloween party, patriotic meeting, strawberry festival, Fourth of July picnic and ice cream social.

The usual plan of meeting is roll call, reading minutes of previous meeting, music, essay or discourse followed by a discussion of the subject presented, visiting intermission, music, recitations, subject for discussion, announcements, closing song by the club.

Among the subjects presented at recent meetings have been the following: Hogs for Profit, Walter Pierce; The Chicago Horse Market, Herman Zantow; Rural Life in Switzerland, Emil Baer; Housekeeping in England and America, Mrs. William Toole; Cooperative Laundries, Mrs. George Carpenter and Mr. H. Voll; Cream Tests and Over-run, Superintendent Toole, of the Excelsior Creamery; Gasoline Motive Power, R. R. Rodwell; Soil Fertility, E. H. Toole; The Railway Mail Service, J. J. Jefferson and The Dual-Purpose Cow, William Wichen.

It will be seen by the above list of subjects that this club must have a broadening effect on its members both in the investigation of the subjects and the discussion of the same.

The social, educational and financial benefits to be derived from such a commercial club are inestimable and it will prove to be one of the greatest factors in retaining for the farming community the bright, intelligent, young men and women, who are today seeking the more exciting life of the cities.

H. S. Hoard.

The Nebraska Corn Improvers' Association has announced that a state corn show will be held again this year and that large entries are promised in spite of the dry weather existing in certain parts of the state. The prizes to be awarded this year are large and well worth an effort and the program being prepared by the secretary of the association will be one of the best ever given during the winter meetings of organized agriculture, January 20 to 24, 1914.

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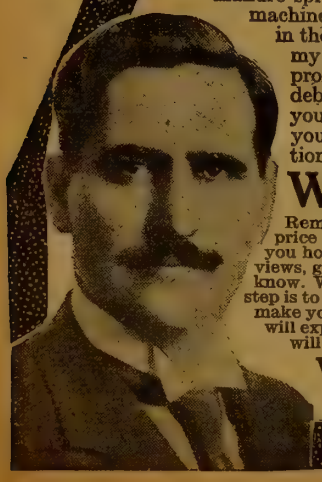

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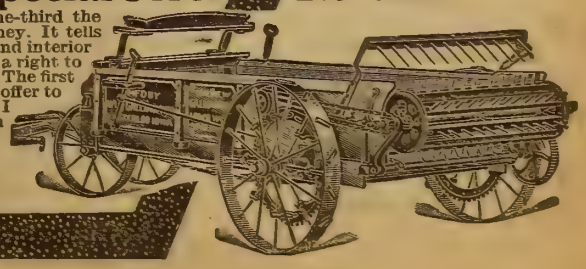

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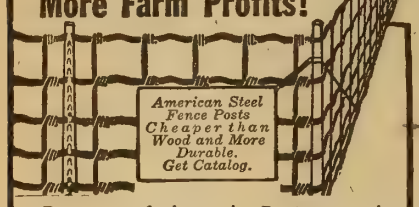

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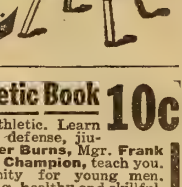

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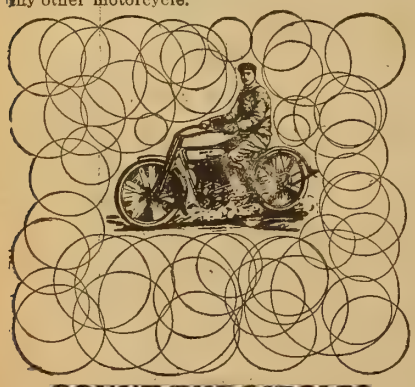

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Silage for Sheep and Horses.

THE topic of silage has been one of long experiment and comment. Some years ago it was a common thing to hear people say that corn silage was of little value; in fact, some would even assert that it was not equal to our other rough feeds. Now we find that the advent of the silo has continued, its value is fully realized by feeders in general. Dairymen understand its part as essential in economical milk production. The majority of progressive dairymen here in Wisconsin have silos, and as silage has proven itself a benefit to one class of livestock, it is natural that men should reach out and seek to apply it to others. The internal mechanism of the cow is not widely different from that of a sheep or a horse. A feed that a cow can assimilate at a profit should be valuable as a feed for other classes of livestock.

It does not pay to maintain a silo for cattle alone if silage can be adapted to the use of our other farm animals. This has been the subject of much thought, not only to use silage as a succulent feed, but as a chief ration for sheep and horses. The results of experiments in the feeding of silage to these animals are probably not as widely known as they should be. If they were, it is my belief that farmers would derive added benefit from their silos.

There are always reasons why failure is pronounced on new discoveries, and we find this particularly applicable with silage. The first silos were built oblong, giving great surface but little depth. This caused moldy silage and silage which had become spoiled from contact with the air. This sort of feed proved a failure in most cases and the silo was not a success. But when the deep, air-tight silo was brought into use, the prospect became much brighter.

I believe that the greatest fault in silage making at the present time is the putting up of too green corn, the use of corn which produces great tonnage, but does not get mature enough. This causes too much acidity which is detrimental for feeding purposes. Investigation would show that this sort of corn has been used in nearly every instance where failure has been pronounced. I might give a brief outline of our experience with corn silage the past twelve years in feeding sheep and horses.

The first year we filled the silo with whole corn, which was planted thick in the rows and harvested when just beginning to glaze. The leaves and stalks were filled with sap, being grown on rich loamy soil. Although it gave us a heavy yield, the results were not the best. We started feeding it cautiously to all of our sheep, but when over one and one-half pounds were fed it had a laxative tendency and in some cases the younger growing lambs would appear sickly, showing papery colored skins and an unthrifty appearance generally. I might state that we fed clear hay and ration of oats and corn in connection with the silage.

The following year a more mature crop was harvested; and as a result, the apparent bad effects of the previous year were eliminated, and a two-pound ration was fed, showing good gains and thrift in the entire flock.

Since the first two seasons our corn has been run through the cutter, not because we thought it made better feed, but we could handle the crop at feeding much easier with practically no more expense.

We are now feeding sheep of all ages corn which had ripened enough for husking and is a fairly early maturing variety with leaves partially dried. Pregnant ewes and young stock received two pounds per head daily and ewes suckling lambs from two and one-half to three pounds, with the best results. I believe we could profitably feed of all this well-matured silage our sheep would consume with excellent results. Where silage has been pronounced a failure as sheep feed, nine cases in ten it has been caused by filling the silo with immature corn.

The experiment stations have been doing excellent work in carrying on experiments with the feeding of corn silage in connection with other feeds to sheep. Among the most valuable are those carried on at Illinois, Indiana, Michigan and Iowa, in most cases demonstrating that good silage was the most economical mutton-producing feed when fed in connection with other feeds.

The Illinois station is now conducting a second experiment with corn silage for fattening lambs along the same lines as one completed two years ago, when silage was substituted for corn and clover hay, with the addition that two lots are fed entirely without clover hay, but this supplemented by other nitrogenous foods. Professor Coffey states these lambs are as healthy and making as good growth as the others, although the experiment is not completed.

In the test two years ago at Illinois, five lots of sixteen wether lambs each were selected and silage fed in different quantities to each lot. Another lot was fed entirely on clover hay and corn. In every case the lambs having silage in their ration made greater and more economical gains than those fed on corn and clover, and in every case also the lambs fed the greatest amount of silage made the best gains.

There is one noticeable factor in this experiment which is very important. That is the general increase made in feeding; a sudden increase in feeding has been detrimental in many instances. I would like to illustrate this by using the data from that college. A fourteen-day preliminary period, followed by four twenty-eight-day periods, was for shelled corn 0.29,, 0.80, 1.07, 1.36 and 1.61 pounds respectively. Corn silage, 0.56, 1:19, 2.03, 2:58 and 2.62. Clover hay, 1.33, 1.04, 0.80, 0.63 and 0.38. The gains were greatest where the most corn silage was fed. Similar work has been carried on at Michigan, Ohio and Indiana.

These efforts are particularly valuable, because they have been long periods, demonstrating fully that there are no ill effects on the system of the lamb and mature sheep, which we find claimed many times by people who are not feeding silage mature.

The Indiana station recently stated that silage was an excellent feed for sheep being fattened for slaughter, also for pregnant ewes and ewes after lambing. This statement corroborates the experience of many a practical sheep breeder.

Our experience in feeding silage to horses has been similar to that of sheep. The poor results from feeding sour, immature silage was apparent. Since the first year or two we have been feeding a liberal quantity to our work horses, brood mares and growing colts with good results. We have never fed heavily to growing colts or brood mares. However, some of our most progressive farmers have been feeding as high as thirty pounds per day to mares suckling colts, and others have fed silage and oats as an entire ration.

It has been fully proven that moldy silage is dangerous. Pearson, of Pennsylvania, in investigating an outbreak where five horses had died, found that moldy silage had been fed, causing the deaths. Wing also reports the death of eight horses feeding on moldy silage. We see that, in view of such troubles, silage should be fed to horses only where sound intelligence is used.

Our conclusion is that silage is one of the most economical and successful feeds for sheep and horses, when it is made from well-matured and properly-siloed corn, and may be fed in almost unlimited quantities.—[W. A. McKerrow in Wis. Institute Annual.

And still the hen has the laugh on the fellows who persist in trying to manufacture a substitute to take the place of the genuine article in hen fruit.

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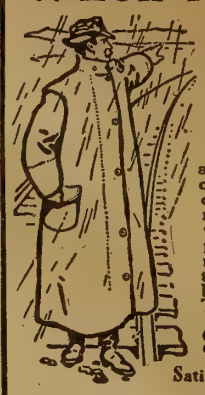
When it rains



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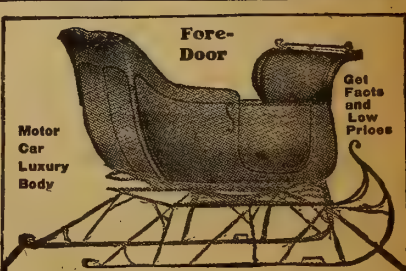

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Vinegar Easily Made at Home

Good Apple Juice, a Barrel or Two, and a LittleTime Will do the Trick.

A SUBSCRIBER from Cass county, Missouri, states that he has a quantity of cider, both sweet and hard, from which he would like to make vinegar. It is very doubtful if he can find a better method than that recommended by Dr. Van Slyke, of the Geneva Experiment Station.

When apple juice is left exposed to the air, according to Dr. Van Slyke, it is gradually changed, losing its sweet taste and giving off bubbles of gas more or less vigorously. The most prominent change is the conversion of the sugars into alcohol and carbon dioxide gas. This change is known as an alcoholic fermentation and is caused by a vegetable ferment or an enzyme which is produced by ordinary yeasts. Cells of the yeast plant are so widely distributed that they get into apple juice abundantly under ordinary conditions.

The rapidity of alcoholic fermentation depends largely upon temperature. In ordinary cellar storage, at a temperature of about fifty degrees F., it takes about six months to convert the apple-juice sugars entirely into alcohol. At a temperature of seventy-five to eighty-five degrees F., this time can be reduced one-half or more. The higher the temperature, the more rapidly the yeast plant grows and the more rapid is the fermentation. There is one serious objection, however, to temperatures above seventy-five degrees F., and that is the loss of alcohol by evaporation. This is favored also by the rapid escape of gas when the fermentation is very vigorous.

We have found that the alcohol in fermentation may be started more promptly and pushed along more rapidly by adding yeast to fresh apple-juice, especially when the temperature is between sixty-five and seventy-five degrees F. The use of any form of commercial yeast, if sufficiently fresh, will probably be found to give good results. I have actually used only Fleischmann's compressed yeast. The completion of alcoholic fermentation is generally indicated when bubbles of gas cease to come off vigorously.

After alcoholic fermentation is completed, another change takes place—the alcohol is converted into acetic acid, and the final object of the vinegar maker is the production of acetic acid. This change is brought about through the agency of micro-organisms called acetic bacteria, these being entirely different from those that change sugars into alcohol.

For the effective conversion of alcohol into acetic acid or of cider into vinegar, there are needed: Acetic bacteria, an abundant supply of air, and a temperature of between sixty-five and eighty-five degrees F.

There is commonly noticed in vinegar a very elastic, slimy, tough, transparent skin of a yellowish-white color; this skin is commonly known as "mother" of vinegar. This appears to be formed by the growth of the acetic bacteria on the surface of the liquid. When one skin has formed it settles sooner or later and in its place another is formed, and this formation and replacement continue as long as air is supplied under favorable temperature conditions and as long as unchanged alcohol remains.

Theoretically, we should obtain from 100 parts of alcohol, 130 parts of acetic acid, but for various reasons the actual yield is usually below 120.

The chief change that takes place in the acetic fermentation of alcohol is the taking up of oxygen by alcohol, which is thus changed into acetic acid. Hence air is an absolute essential.

Acetic fermentation as usually conducted by farmers, takes place more slowly than the alcoholic, often requiring eighteen months and in some cases two or three years. The most satisfactory results of acetic fermentation have been obtained by us at temperatures between sixty-five and seventy-five degrees F.

The rapidity of acetic fermentation can be greatly increased by introducing into the alcohol cider acetic-acid organisms in the form of "mother" vinegar. In a cool cellar, cider that had been thus inoculated by the addition of cider-vinegar or of "mother" reached marketable condition a year sooner than where nothing was added. This precaution must be borne in mind; Never add vinegar to cider in which the alcoholic fermentation is not completed, since the presence of the acetic acid greatly delays the alcoholic fermentation. Many farmers and vinegar-makers have an unwise practice of adding fresh apple juice to old vinegar, expecting to secure a more rapid formation of acid and then they complain that the cider won't work. The apple juice sugars must first undergo alcoholic fermentation before the acetic fermentation can begin. Therefore, by adding apple juice to old vinegar, the alcoholic fermentation may be not only delayed, but absolutely prevented.

The following is a practical method of inoculating cider with acetic bacteria: When the alcoholic fermentation has stopped, which, under favorable conditions, should be in one to three months, this "hard" cider is placed in barrels, by filling half full and then adding one-fourth volume of old vinegar. "Mother" of vinegar is then prepared as follows, and added: Expose in a shallow, uncovered crock or wooden pail a mixture of one-half old vinegar and one-half hard cider at eighty degrees F. In three or four days the surface should be covered with a gelatinous coating, which is "mother" vinegar. A little of this carefully removed with a wooden spoon or flat stick should be laid gently on the surface of the mixture of cider and vinegar prepared as described above. Do not stir it in, because the acetic ferment grows only on the surface where it can have an abundant air supply. In three or four days, the coating should spread itself over the entire surface. This coating should not be broken or disturbed as long as acetic fermentation is going along satisfactorily. When this method is followed, the vinegar should be complete and marketable in one to three months after the alcoholic fermentation is finished.

In vinegar factories, the fermentation of acetic acid is greatly hastened by the use of "generators," in which the alcoholic liquid is brought into intimate contact with a larger supply of air. The "generator" is a cask three to six feet in diameter and six to twelve feet high. It is loosely filled with beech-wood shavings, which have been especially prepared and then soaked thoroughly in old vinegar. The cider trickles over these shavings in thin films at a rather high temperature (about ninety-five degrees F.). The operation is completed in a few days. While vinegar thus made is likely to be more uniform than that made in casks, generator vinegar is inferior in aroma and taste. The longer process is necessary for the development of the delicate flavor, characteristic of high-grade cider vinegar. In the hands of the average man, who has not large amounts of cider to make into vinegar, these generators can hardly be regarded as entirely satisfactory in every way.

Figures gathered by the federal quarantine board of the United States Department of Agriculture show that during the past fiscal year 3,779,041 growing trees anad 15,040 pounds of tree seeds were imported into the United States. The trees include, say the members of the board, valuable species that do not grow in the United States and stock which can at present be bought more cheaply abroad. The tree seeds imported are largely for the purpose of reforesting land, though in a number of cases they are used in ornamental planting on individual estates.

Farmers of Australia have expended nearly $15,000,000 in an attempt to reduce the number of rabbits which are in that country highly destructive to growing crops. A wide range of methods have been used. Bacteriological experts have experimented with the view of introducing cholera germs among the rabbits. Poison has also occupied a prominent place. Some ports of Australia have exported 25,000 carcasses in a single year. Others refuse to dispose of them in that manner, preferring to consider them as an unmitigated nuisance from every point of view.

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THE FIRST WINTER WITH DAIRY CALVES.

One of the tricks of a successful stockman is to take his calves through the winter without loss, and to do it economically, and, at the same time secure a good growth on the youngsters. This matter is really a serious one and a man who accomplishes well deserves to be called a successful stockman.

In the catalog of requirements, a calf needs feed, shelter, air, cleanliness and water. For feed we might say any good feed and plenty of it is sufficient. Alfalfa is undoubtedly the premier roughage for calves. It is nourishing in its elements to the extreme. It is palatable and the youngsters will eat a large amount of it and digest it well.

Silage helps mightily. Good feeders are coming to realize its value for calves more and more. Its freshness and juiciness keep the calf in health and thrift as well as supplying nutriment. A little variety of straw or clover will be appreciated by the calf and will subtract from the regular feed bill. Grain will be very highly relished, but it increases the expense. Sometimes if grain is cheap or if for any special reason the youngster seems to need it, a little may be allowable.

For shelter a place that will make the calf comfortable should be the ideal. It may be of straw or lumber, of sod or stone. If the shelter provides protection from wind, rain and cold, it matters not what the structure may have cost. Dryness and cleanliness underfoot are not the least consideration. In foulness or filth lurk disease germs and discomfort. Generous use of straw followed later by the manure fork will pay in the calf shed.

Then water is essential as the other features. One man who has made himself prominent as one who grows good stock has said that one reason for so many inferior looking calves is that the supply of water during winter is inadequate. There is truth in his statement, for on farms where feed is used lavishly sometimes growth is not secured to such an extent as might be expected. That has been often noticed where the watering place is inconvenient or difficult for the youngster to reach.

We have scanned the points mentioned above and will add a postscript in the form of an old Scotch adage, "The eyes of the master fatten his stock." Truly, above all, the man must give thought and attention to his calves. It will pay. Every time a man or boy takes a good serious look at his calves he will have some thought that will help him in better management. Scarcely can a cattle man secure a better compliment for himself or make a more creditable showing as to his ability than by turning out a bunch of nice yearlings that show that they have been wintered successfully.

PUBLISHED FOR WOMEN.

Following its policy to aid farm women the department of agriculture has recently issued a list of free publications which apply particularly to women's work. This list is furnished free on application to the editor-in-chief of the division of publications, United States Department of Agriculture, Washington, D. C., as are the bulletins which it describes.

There is one class of bulletins dealing with dairying, while others specially concern butter, cheese, cream and milk. Among the bulletins dealing with milk are the following: The Care of Milk and its Use in the Home; Ropy Milk and Cream; Bitter Milk; Clean Milk; Milk Supply of Cities: The Covered Milk Pail; Cost of Market Milk: Lacto, a New and Healthful Frozen Dairy Product. Bulletins on the subject, "Drugs," are entitled: Harmfulness of Headache Mixtures: Habit-forming Agents; Their Indiscriminate Sale and Use a Menace to the Public Welfare.

There is a set of bulletins dealing with bees; a set dealing with birds; another set dealing with such household insects as the ant and the flea. Guinea pigs, rabbits and rats also have each a bulletin devoted to them, and particular attention is given to poultry under the following heads: Poultry Accounting; Poultry Diseases and Pests; Ducks and Geese; Eggs; Poultry Feeding; Guinea Fowl; Incubation; Poultry Marketing; Pheasants; Squabs; Turkeys.

Farm conveniences in general have one set of bulletins to describe them, and farmers' institutes another. Hints on how to prepare foods over a wide range of subjects including apples, banana flour, bread, cereal breakfast foods, clams, coffee substitutes, and corn. There are twelve bulletins devoted to canning and preserving; while the fireless cooker is the subject of a separate bulletin.

In applying for these publications, first send for the list and then indicate from this the name of the series and the serial number of the bulletins or circulars that are desired.

HANDLING THE HEIFERS.

Heifers intended for cows should be kept growing rapidly until they become cows. It is not desirable to keep them too fat nor too thin at any time, though experiments have shown that dairy heifers kept fat milked practically as well as those kept in good growing condition. It is often said that heifers can "rough it" from the time they are six months old until nearly ready to calve; consequently, they are turned to the straw stack, given a little ear corn and stover and possibly a little hay. This is bad practice. While growing they need more protein than these feeds provide. Many of them become stunted by such treatment and never entirely overcome it. They do not require as much care during the winter seasons as the cows; but must not be neglected, if their best development is to be obtained.

In the spring, they should not be taken to the back pasture and left without being seen for a week at a time; but they should be seen and salted at least twice each week and to see them daily is better, because so many things may happen. They may get sick or injured or get out and do damage to crops and their breeding is liable to be neglected. If the bull is kept with them, the date of breeding is usually not known and recorded. What has been said about cows at pasture applies to heifers also.

While in the barn, it is a good plan to let heifers of the same age run loose in pens except when feeding, at which time they may be kept in stanchions. The proper time to breed heifers is when they are seventeen to eighteen months of age. Large, growthy heifers may be bred a month earlier. Heavy bulls should not be used on heifers without the use of a breeding crate. Special attention should be given them at calving time. If handled gently and often, they will be much more easily "broken" when fresh. —[Ohio Experiment Station Report.

THE CARE OF CREAM.

To the Editor of The Homestead:

Investigators have found that nearly all of the chemical and bacteriological changes in cream take place in the serum or milky part; therefore, the richer the cream the better it will keep, other conditions being the same. By skimming a rich cream, more skim milk is left at home for feed and there is also smaller bulk on which to pay express charges. For these reasons it is generally advisable to skim cream testing 35 per cent to 45 per cent butter fat.

Frequent experiments have shown that cool (low) temperatures will greatly retard the growth of most germs, and that cream quickly cooled will keep sweet much longer than when it is allowed to cool gradually.

The practice of adding cream to that which has been previously cooled is recorded as being extremely undesirable, because the warm cream raises the temperature of the whole mass sufficiently to start the dormant bacteria to activity, causing them to multiply rapidly, producing large amounts of acid and also other undesirable fermentations before the cream is again cooled to a point where their growth is checked. Warm cream should be thoroughly cooled before it is added to the cold cream.

The writer knows of dairymen who, because they realize the importance of quick cooling, and by keeping the cream in cans surrounded by ice-cold water until time for delivery, have worked up a trade for sweet cream which brings them fully twice the usual butter-fat price. It is well to remember that it is the cooling of the cream and not the mere fact of getting it into water that is the important thing.

If cream is stirred faithfully it will in a few minutes be reduced to the same temperature as the water in the tank, while if put into the tank without stirring it may remain warm for several hours. It is needless to say that just so long as the cream remains warm the bacteria which, even under the most sanitary conditions have gained access to the cream, will not be hindered in their growth. The vast majority of milk bacteria, however, grow very slowly at the temperature of ordinary cold water; hence the importance of cooling the cream very quickly.

In parts of this state ice may be put up at a very small cost during the winter. Wisconsin farmers should avail themselves of the opportunity and put up a supply for the dairy and family use. Aside from its use in the dairy there are many places where a supply of ice could be used to good advantage; such as for ice cream mak-

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My Wonderful New
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On 90 Days' TRIAL FREE

I'm not asking you to buy it, understand that? I'm not asking you to buy this separator or even promise to buy it. I simply want to send it to you so that you can test it out right on your own farm free. I know what this separator of mine is. I know what it will do. I know that there isn't another separator in the world at any price that is even in the same class with it. I know these things because I have found them out by an actual, personal investigation of the separator itself right on my own modern dairy farm.

Why! when my own experts came to me and told me the results of their final tests on this machine on which they had been working for three years I'll confess I didn't think such things were possible. Now, after testing the separator itself, I know that they were justified a hundred times over in every claim made.

Now, I want to give you exactly the same chance I had. I want you to take this separator to your farm and test it in every way you can think of. Then, at the end of the free trial, if you can't honestly say: "Galloway, I wouldn't be without the machine you sent me at any price"—then just ship it back to me. I'll pay the freight both ways—the free trial won't cost you a single cent.

Save $25 to $50 on the First Cost Alone

If you do decide to keep the separator after the free trial, I'll let you have it at actual factory cost with only one small factory profit added. You pay no middleman's profit—I sell direct from my factory to you.

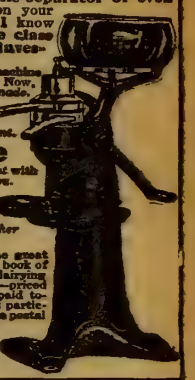
Write for My Great Special 1913 Offer

Positively the greatest offer I've ever been able to make. If you will write at once, I'll tell you how you may get one of these wonderful separators either partly or entirely free and without any work or canvassing either.

Cow Book FREE!

If you write at once I'll send you a copy of the great Galloway Cow Book absolutely free. The only book of its kind in the world. A complete manual of dairying for the farmer. Worth hundreds of dollars—priced regularly at $1.25. I'll send it free and postpaid together with my big separator catalog and full particulars of my great offers if you'll just send me a postal or letter RIGHT AWAY. Write today—NOW!

Wm. Galloway, Pres., Wm. Galloway Co.
13 Galloway Sta., Waterloo, Ia.



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High grade, low priced. See a Beatrice dealer.
BEATRICE CREAMERY CO.
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26-inch Hog Fence.....14c.
41-inch Farm Fence.....21c.
48-inch Poultry Fence...22½c.
80-rod spool Barb Wire, $1.55

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The Economy Galvanized Steel Roof is securely nailed to rafters which add strength to the silo. It is permanent—easy to put on. When connected with a grounded wire protects your silo from lightning. The Economy Roof fits silos of all constructions. Wood, cement, hollow tile, brick or steel. It's cheaper and more durable than wood. Write for illustrated folder.
ECONOMY STEEL PRODUCTS CO., 20 N. Third Street, DES MOINES, IOWA

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Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. Geo. S. Redhead, Des Moines, Ia.

Jerseys For Profit
AMERICAN JERSEY CATTLE CLUB. 324 W. 23d St., N.Y.

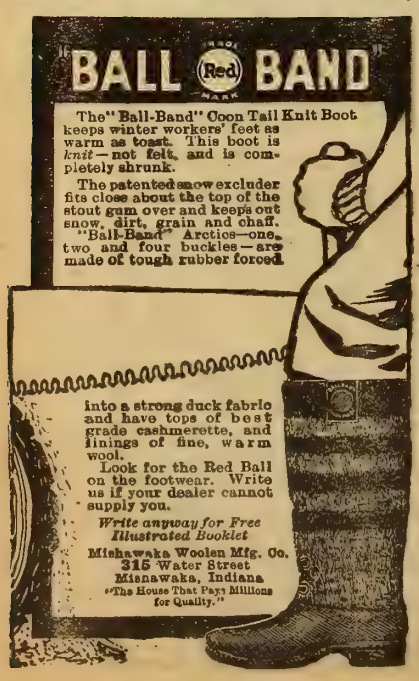
THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

AYRSHIRE CATTLE.

EDELWEIS AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

FRED TSCHUDY & SON
Monroe Wisconsin.



ing and for cooling the refrigerator so much desired by the housewife on the farm.

While the cream is cooling, the lid should always be removed from the can, thus giving the animal odors a chance to escape. A clean, dry cloth may be substituted as a protection from flies and dust. No vegetable or any substance having strong odors should be allowed close to the cream, as such odors are readily absorbed.

The cream should be delivered not less than three times a week during the summer. If the cream is hauled to the station early in the morning and the cans protected by covering with a wet sack while on the road to the creamery or station, the farmer will be enabled to deliver the cream at a much lower temperature than would otherwise be possible. During the winter time the cream need not be delivered oftener than two or three times a week.

Some one has well said: "Clean cream, cold cream, and rich cream are the three words which tell the secret of producing good cream."

D. E. Mowry.

A PAIR OF GOOD GRADE COWS.

One of our subscribers is very proud of the record that has been made by two cows. The story comes from a lady subscri..., therefore its accuracy will not be questioned. The milk from these two cows during the month of October supplied a family of five with all the dairy products that were used. The butter made was weighed and eight pounds were used, though the milk and cream consumed in the home were not measured. In addition the cream check for the month, that is, the income from the surplus cream sold, amounted to $29.50.

It may be of interest to add that one of these cows had freshened last January and the other one in March so that this record was made well along in the lactation period.

If there are any of our readers that are doing as well or better than this in their daily operations we shall be pleased indeed to hear from them.

THE BULL AND THE COMMUNITY.

To the Editor of The Homestead:

Another feature of the helpful influence of a high-class bull is the influence of the bull upon other herds of the locality. For that I am going to draw from my own experience again because I am so familiar with the details. A dairyman in a western state asked me to purchase a bull for his grade cows. By good fortune I was about to take a trip through a notable dairy district. By stopping off I located a bull whose dam had produced 631 pounds of butter fat in a year and whose half sisters were showing remarkable records. The price was higher than my dairyman friend contemplated paying. However, upon my return he was easily persuaded to stand the additional expense. I made use of the local papers to inform the public of the purchase of the bull and his arrival. The reporters lauded his merits and scarcely was the bull installed in his new quarters before the demand for public service was more than he could care for.

In many localities the excellent dairy cattle to be found can be credited to the influence of one or a single line of good bulls. Truly a meritorious bull is a blessing to the community and a man who purchases a bull that will increase the dairy qualities of the stock of that community is confering a blessing. H. E. McCartney.

SOURCES OF INFORMATION.

Regardless of the fact that the term 'book farming" has heretofore been more or less a term of scorn in the minds of many men who farm, the number of books which are being read by farm people each year is rapidly increasing. When it comes to accurate, reliable information easily obtained it is doubtful if any books on agriculture are superior to the "Farmer's Cyclopedia of Agriculture" and the "Farmer's Cyclopedia of Livestock," compiled a few years ago by Wilcox and Smith, of the United States Department of Agriculture. Each of these books is filled with valuable information compiled from books and bulletins published in all parts of the country. If a man wishes some information regarding some point in the breeding of livestock, the treatment of some disease, the marketing of some certain breed, or the general feeding and management of the various kinds of livestock, he has but to turn to one of these volumes to find this information readily at his command.

In the "Cyclopedia of Agriculture" information is as readily accessible whenever one wishes to consider the recommended methods of handling various crops. Advice on the seeding, cultivation, harvesting and handling of practically all the crops grown in the United States, together with the discussion of insect pests and methods of controlling them, are contained in this volume, and what is most important of all, are easily looked up. The regular publisher's price of the "Farmer's Cyclopedia of Agriculture" is $3.50 and "The Farmer's Cyclopedia of Livestock" $4.50. They may be obtained from this paper at the prices named.

FALL GARDEN PLOWING PROFITABLE.

To the Editor of The Homestead:

All the droppings from the poultry-house and some of the finer manures from the stable stalls are carried out and scattered over our garden from now until the weather threatens to freeze the ground, when we clean up all the weeds, dead vines, and all decaying garden truck, removing or burning it. We always save this for fertilizing purposes, hauling it to some field about the farm, or it may be transferred to the compost heap, but in any case, it should not be left where the garden spot will be next year, as it is pretty sure to be infested with insect pests, their eggs for next season's hatching, and various fungous diseases peculiar to garden truck.

After this refuse is all removed, we take a common garden rake or hitch to the harrow and level down any spots of manure that have collected in heaps, which gives the dressing an even distribution over the ground. We then stir the ground thoroughly to a depth of from eight to ten inches. This confines the manure where none of its fertilizing elements will be washed away, and where the alternate freezing and thawing between now and next spring will thoroughly disintegrate the larger dirt and manure particles till the fertilizing components of the poultry droppings will have entered the texture of the soil. This winter and next spring we again give the garden another thin surface dressing of manure and again stir the ground thoroughly, just before garden-making time, which throws the fine, rich soil to the surface for a seed bed, and turns another deposit of manure under, to form a veritable hotbed for supplying the plant life above it with nourishment.

Worth Co., Mo. M. Coverdell.

At the London (England) Dairy Show held a short time since, 286 cattle were exhibited. Of these, 125 were Shorthorns, 55 Jerseys, 19 Guernseys, 19 Red Polls, 6 Ayrshires, 9 South Devons, 5 Kerries and 38 cross-breds. In comparison with the 50 cattle which made up the Iowa Dairy Show at Waterloo a few weeks since, the English show seems to be lacking in numbers. The exhibit, however, covered a wider range than do our dairy shows. In addition to the cattle, there were milking and butter tests, goats, poultry, pigeons, cheese, bacon and hams, skim milk, bread and honey, new and improved inventions, roots, butter-making contests and milkers' contests. In the making of butter, however, they certainly excel our shows, 549 entries having been made.

Recent tests of Holstein-Friesian cows in England produced one case in which the fat percentage was 7.1 and another in which it was 6.1. The London Livestock Journal in which the statement appeared insists that the reason for the unusually low test of cattle of this breed is that the Hollanders are retaining carefully their best cattle and parting only with those of an inferior sort.

At the late American Royal a yearling mule made a new record in mule valuations by selling for $550.

For ANY Barn

A New Carrier For Both Rigid and Rod Track

JAMES 2-in-1 Carrier

Rigid and Rod Track Combined

A combination that offers all the advantages of the rigid track inside the barn—all the advantages of the rod track outside.

It enables you to use, inside the barn, the celebrated JAMES I-beam track, bent to any curve without use of heat, with JAMES simple switches and a raising and lowering carrier.

"Button-on" hangers make the I-beam track easy to erect.

Tub lowers by its own weight; is kept under perfect control by JAMES friction brake and clutch.

While filling tub carrier "stays put"—moves only when you push it, because track cannot sag.

Outside the barn you use the rod track. Stand at the door, give carrier a shove; it runs out, dumps itself at proper point, and returns automatically to the barn. *Never fails to dump.*

Cannot jump either the rigid or rod track.

We make carriers for rigid track—carriers for rod track—also this combination; all backed by the proved national success of JAMES Sanitary Cow Stalls, Stanchions, Pens, Ventilators, etc.

Get the facts before you invest a dollar in carriers.

James Manufacturing Co.
AV98 Cane St., Ft. Atkinson, Wis.
"Originators of Sanitary Barn Equipment Ideas"

James Mfg. Co., AV98 Cane St., Ft. Atkinson, Wis.
Gentlemen: Please send me complete information regarding your new JAMES 2-in-1 Carrier, Rigid and Rod Track Combination.
I have..... horse..... cows. Please send catalog No. 1—Barn Equipment. Pens ☐ Stalls, Stanchions, Catalog No. 2—Barn Ventilators ☐ Carriers ☐ Catalog No. 3—Rigid and Rod Track
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HOLSTEIN-FRIESIAN CATTLE.

HIGH-GRADE HOLSTEIN COWS AND HEIFERS

I AM offering a splendid lot of high grade cows and heifers for sale, all bred to noted bulls and fresh soon. These are from two to five years old. Write at once or come and see me. Address
C. E. VEAK - - - - - - - - ESSEX, IOWA.

PURE BRED HOLSTEINS
AT AUCTION
SO. OMAHA, NEB., DEC. 2, '13
50 cows and heifers. 12 bulls including **Kalmuck Skylark Johanna**, the greatest son of the great Katy Gerben. There will be a lot of daughters of Sir Veeman Hengerveld, and granddaughters of King of Pontiac. Send for catalog to Corn Belt Holstein Sale Co.
A. L. HAECKER, Mgr., LINCOLN, NEB.

Pure-bred Registered HOLSTEIN CATTLE

Last year a California Holstein made a yearly record of 784.13 pounds of fat from 25,981.8 pounds of milk.

After an interval of two months she began another yearly test which has just come to a close with a record of 868.1 pounds of butter fat from 28,826.4 pounds of milk.

These two successive yearly tests during which 54,800 pounds of milk were made are more evidence that great records are not spasmodic efforts, but represent capacity permanently developed.

Send for FREE Illustrated Descriptive Booklets
Holstein-Friesian Association
F. L. Houghton, Sec'y, Box 113, Brattleboro, Vt.

CHICAGO STOCK FARM
Highest HOLSTEINS Quality
BULLS
BY Johanna Bonheur, champion, and Maplehurst Butter Boy De Kol. In 1912 ten cows in herd averaged 890 pounds of butter.
R. B. Young, Buffalo Center, Ia.

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

A HOLSTEIN HERD AT BARGAIN PRICE
I WILL sell my entire herd of Holstein-Friesians nine females of breeding ages, five bulls and two young calves. They are strictly good, from the best lines of breeding, and all recorded or eligible to record. Will sell singly or in lots to suit purchaser. A low price for quick sale. Come and see them.
C. W. Barclay, Madrid, Boone Co., Iowa.

30 BULLS
FROM one month to fifteen months of age. Most of them by our great herd bulls. Many of them out of record cows. A choice lot of well-bred calves and good individuals. Send for price list. Also a few cows and heifers. All stock registered. No grades.
WOODLAWN FARM - STERLING, ILL.

GRADE GUERNSEYS and HOLSTEINS
FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

HOLSTEIN COWS
WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

BRED FOR PRODUCTION HOLSTEINS
Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

"RESTHAVEN HERD" OF HOLSTEINS
THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

FOR SALE Car of well bred registered Holstein cows. Also bull calves.
C. S. MULKS - - RICEVILLE, IOWA.

FOR SALE Two Guernsey bulls, thirteen and four months old. M. T. Love, Garner, Iowa.

DOGS.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collies should write us. Our stock is direct from the very best imported, and of strains noted for their winnings and intelligence. Special prices for a short time. A. A. Martin & Son, Tekamah, Neb.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

COLLIES—Breeders buy our pups for stud dogs—reason—superior stock. Airedales, by champion, Judge Dexter, Imp. Tintern Perform. Pups, trained dogs and bred bitches. P. L. Savage, St. Charles, Ill.

SMOOTH FOX TERRIERS Best breeding, splendid individuals, great ratters. Special prices, Address N. R. Rogers, Peru, Nebraska.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

FOR SALE Fox Terrier dogs, good watch dogs and excellent ratters. E. B. Rohlwing, Greene, Ia.

BRIGHT, intelligent Collie pups from trained stock, pedigrees, eligible to registry in A. K. C. Address Mrs. A. N. Bonnett, Birmingham, Iowa.

FERRETS.

FERRETS A few choice brown ones in healthy condition. Ready for work. Address JAMES H. HAWKINS, Route 10, XENIA, OHIO.

WYANDOTTES.

100 BUFF WYANDOTTES

FOR SALE—100 cockerels and pullets at prices that will suit everybody. Write me the kind you want and what you wish to pay and I will describe what I have for the money. Order now while you can get pick of the flock. Address
R. B. ROWE - - - INDIANOLA, IOWA

BONNIE VIEW WHITE WYANDOTTES

EXTRA good. Bourbon Red turkeys, two flocks not related. Mammoth Pekin ducks. Mrs. N. W. Burbank, Bonnie View farm, New Sharon, Ia.

White Wyandotte Cockerels

AND COCKS FOR SALE. No brass in plumage, good eyes and legs, from No. 1 layers, $2 to $5 each; 6 for $10, and up. Order at once. Have only a few to spare. **John M. Hall, Williams, Iowa**

R. C. W. Wyandotte cockerels $1 to $1.50 each. Won 1st on cock, 1st on hen, Lincoln, 1913. Price list free. Carl Ehlers, R. 3, Gretna, Nebraska.

PARTRIDGE Wyandottes, 50 fine cockerels and yearlings at prices from $1.50 up. Special prices on a few hens. Thos. L. Morlan, Indianola, Iowa.

FAHA'S Silver Wyandottes; great stock reduction sale now on; 200 young Silvers; bargain prices. Write wants. Frank Faha, Jr., Bx.626, Dyersville, Ia.

WHITE WYANDOTTE COCKERELS and yearling hens for sale. Low prices on early orders. Eliza Nolin, R. 3, Monroe, Iowa.

WHITE WYANDOTTES. Choice pullets and ckls. for sale. Geo. W. Livingston, Monroe, Ia.

SILVER LACED Wyandotte cockerels, Rouen ducks, Fawn and White I. R. ducks. Mrs. H. J. Miner, Route 3, Wayne, Neb.

100 WHITE WYANDOTTES They are beauties. Write me about them. Address S. W. Harr, Riverside, Iowa.

PLYMOUTH ROCKS.

300 GIANT BARRED ROCK COCKERELS

PARENT stock weighs up to 12 lbs. They have good combs, heavy yellow legs, deep, narrow barring; price 3 for $7, 5 for $11, 7 for $15. Choice exhibition cockerels $4 to $10 each. Order direct from this ad, and if birds are not satisfactory can be returned. **Theo. Martin, R. 6, Bellevue, Iowa.**

WHITE PLYMOUTH ROCKS

EXTRA good quality and sized birds. I am offering exhibition and breeding stock at reasonable prices. There is a scarcity of good birds this year so get your order in early. F. E. Ristrim, Stanhope, Ia.

75 BUFF Rock cockerels. Big, healthy birds, good colors. While they last at $1.50 for single birds, $1.25 ea. in ½ doz. lots and $1 ea. in doz. lots. A few good ones at $2.50 ea. F. H. Hassler, Manning, Ia.

W. P. R. Cockerels from select stock, $1.50 each, or 6 for $7.50 if taken soon. Mrs. W. S. Huber, Tipton, Ia.

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

WHITE Plymouth Rocks, pure bred, large, vigorous, snow white. Ckls. for sale cheap till scored. Satisfaction guaranteed. G. H. Blake, Oelwein, Ia.

FINE White Plymouth Rock cockerels and hens at a bargain, $1.00 and $1.50 each if taken at once. Mrs. James Pedley, Rural Route 3, Britt, Iowa.

765 **BARRED P. ROCKS,** big birds, with big bone. Straight narrow and distinct barring. Address **A. D. MURPHY - ESSEX, IOWA**

ORPINGTONS.

WHITE ORPINGTON CKLS. From best laying strain; large, heavy-boned birds; unscored; price $1.50, $2 and $2.50. Address Frank Nash, Minden, Nebraska

SINGLE Comb White Orpington Hens and Pullets at attractive prices. Choice cockerels at $1 up. Mrs. Howard Niswander, Kinross, Iowa.

241 EGG strain. S.C. Buff Orp. World's champion layers. 100 choice early hatched ckls. Prices right. Circular free. W. L. Bardsley, Neola, Iowa.

75 S. C. B. Orpington hens $1 each. 100 ckls. $1.50 to $5 each. Good size and color. Mammoth Pekin ducks $1. Mrs. W. E. Zimmerman, R. 5, Neola, Ia.

S. C. Buff Orpingtons, cocks and cockerels, $5 up; hens and pullets, $2.50 up. No cheap ones left. Address GLYNN POULTRY YARDS, Cascade, Ia.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

A WELL-CONSTRUCTED POULTRY HOUSE.

"A. T. J.," Iowa, submits plans for a new poultry building that, considering the climate, is a good basis for the future home of his flock. In a recent communication he says:

Have constructed a new poultry house 15x30 feet, using concrete for three walls—rear wall six feet high, front eight feet high. Front wall is of drop siding, with a continuous row of 20x24 inch window lights, full length. Above that, fourteen inch space, length of building, covered with poultry netting inside, and with cheesecloth outside. Roosts across building three feet from floor. Cost of material was only about $90. In your opinion are there any objections or drawbacks in such a house?

There are many different good plans for poultry buildings, and each one has its champion. The long house, such as our inquirer describes, is probably favored by more poultry raisers than any other one kind. A house built on this plan may be enlarged at will, by the addition of only three walls and roof.

One of the most prominent poultrymen in this country would not accept a concrete poultry house as a gift, while many experiment stations are using them with complete success. The only objection to concrete is the tendency to dampness. The new building in question is so planned as to overcome this fault, and many poultry keepers, who educate their children with the poultry proceeds and must use indifferent poultry houses, would be glad to take the risk of such a house.

There are no serious objections or drawbacks, but some of the features might be improved: The cheesecloth is all right for ventilation, but would be preferable if tacked to a frame that could be raised or lowered in summer and pleasant winter days. There is much being said about glass radiating cold; a reaction, perhaps, from some overenthusiastic person trying to turn his poultry house into a green house. The glass is all right, especially if there be a big box directly under, filled with good fresh soil. Second only to the dust box should be a place separate from the perches, where litter may be placed to keep the fowls busy on days that are too stormy to be out of doors. If the perches are in the rear of the building, as of course they are, a board one foot high would keep the feed and scratching place separated from the droppings. The perches are a suitable distance from the floor, and will reduce the danger of "bumblefoot" to a minimum.

If a shingled roof, the slant is not steep enough; the roof would be easier changed than the walls, by the addition of some material impervious to water, like a good grade of rubber roofing for the purpose. Steel is used to some extent, but not to be recommended—it is hot in summer and cold in winter.

PERITONITIS IN FOWLS.

One of our Iowa subscribers, Mrs. J. L. Mathews, is very much concerned about her farm flock of fowls, including chickens, turkeys and geese. In a communication to this paper she says:

For some time I have wished to ask this paper a question in regard to my poultry. I have been losing my chickens for three months. Have lost every one of my herd of geese, and am now losing my turkeys. Just lately I have been cutting the fowls open, and find the livers to be very large, crumbly and seemingly ulcerated. Also, there is a yellowish watery fluid among the intestines. The chickens and turkeys have a diarrhea similar to cholera, being yellowish green in color. Some of them have a very large gall and it is completely full of bile. Are geese subject to diseases that other fowls are? I never lost any geese before in my life, and am completely at sea about it. The geese would seem all right one day, and the next would just stand in one place until they died, usually the same day. Can you tell me what is the trouble, the cause and what to do for them?

This paper desires to be of service to its readers, and earnestly hopes that all will come with their perplexities and troubles. If our correspondent had not delayed so long, she might have taken measures to check the trouble that is depleting her whole flock of fowls. The above amount would very accurately describe any one of the several ailments, only that she made a post-mortem and found liquid among the intestines. This condition proves beyond a doubt that the immediate cause of death is from peritonitis or poisoning.

When one hears the word poisoning it is in order for the mind to revert to some poisonous substance. While this is often the cause it will hardly fit this case, unless it be from tainted or moldy feed, causing slow poisoning. The condition of the livers indicate a long duration of the trouble; so we must go back, back many weeks or months, to the time when the flock was too liberally fed on carbonaceous feeds, too little of succulent or green feed, and did not have adequate exercise. If poultry people would only realize that this combination soon puts that important organ, the liver, out of commission, many complications might be avoided.

The liver has work to perform in the assimilation of food; when it becomes congested it is an abnormal organ and cannot perform its duty. Congestion is followed by inflammation; the liver becomes enlarged and tender, often crumbling to the touch. This condition, if the fowl survives long enough, passes to the last stage, which is called biliary repletion. The gall sac becomes so extended with the surplus bile as to penetrate the adjoining organs, as in the case of the fowls in question, causing poisoning and death.

This description is given, step by step, because the only treatment worth while is that which begins with the flock as a whole while yet in good condition. All too many fowls are killed by mistaken kindness. All too many flocks are wiped out or rendered useless by having access to corn at all times. The professional poultry keeper, who must buy his grain rarely has trouble of this kind.

Geese rarely contract disease, their indisposition being almost wholly due to adverse conditions. This trouble is not "catching" only so far as what causes one to become afflicted causes all the flock to go wrong.

Those who are yet in the first stages may be saved by cutting out all feeds containing fat or starch. Feed sparingly of grain, wheat being preferable; a variety of green feed, skim milk, into which one grain of aloes for each fowl is placed, and make arrangements for adequate exercise. This latter may be brought about by scattering the grain in deep litter, requiring the fowls to work or go hungry.

EGGS IN COLD WEATHER.

To the Editor of The Homestead:

A warm comfortable house is of first importance. If the hens are not provided with comfortable quarters during the winter months they will not lay many eggs, no matter how favorable the other conditions are.

Hens must have care, more or less, the year round, but, as a rule, in summer, they can pick up the greater portion of their food in the fields, provided they have free range. The hens need a little grain, even during the summer months. The molting season is coming upon them, and if they are kept in a thrifty condition, it will not be so great a strain on their vitality.

Be sure that the hens are sheltered from the cold on frosty nights—especially those who have lost many of their feathers. Perhaps they have been roosting in the trees during the sultry summer months, and will still insist on doing so, but it should not be allowed. If only a few hens are late in molting, it is a good plan to place them to themselves and feed such feeds as will fatten; the idea being to fatten and market the very late molters. Of course, there are some exceptions to the rule, but late molters seldom make good winter layers.

It is a difficult matter to induce the hen that has been a constant summer layer, to molt at the right time.

The hens should roost in the houses in summer as well as in winter, provided they are well ventilated. Hens do better when there are not more than fifty or sixty in each house. Fifteen by thirty-six feet is about the right size for this number, though it might shelter a few more. A small apartment should be attached to each room for storing small quantities of grain, grit, etc.

The roosts and nests should be removable. Dry earth or coal ashes should be scattered under the roosts, so the droppings may be easily removed, and used as garden fertilizer.

Keep everything as clean as possible. Cover the floor several inches deep with straw or litter. It will not be necessary to change it very often, except in very severe weather, when the hens must be confined.

In building the house it is best to use heavy material, covering the

BRAHMAS.

Light Brahma COCKERELS

WELL-MARKED, big-boned fellows; Mammoth Bronze turkeys; Indian Runner drakes, fawn and white and a few pure white ones, that were raised from a $100 trio. Also Buff Orpington drakes and Shetland ponies. F. P. Healy, Bedford, Iowa.

PURE BRED LIGHT BRAHMA COCKERELS for sale at $1.00 each. They are good ones. Mrs. J. M. Dries. Ashton, Ia.

MY HEAVY WEIGHT Light Brahmas won 14 premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa,

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

TURKEYS.

FOR SALE Big-boned White Holland turkeys. Address MRS. J. A. RICE, R. 3, HILLSBORO, IOWA

WHITE HOLLAND TURKEYS. Fine black hens $3, toms $5, unrelated trios $10. Address **Mrs. C. H. Schmidt, Route 1, Tripoli, Iowa**

WHITE Holland turkeys, White Pekin ducks, White African guineas of first-class stock, very reasonable prices. Address Edw. Dooley, Selma, Ia.

DUCKS.

50 ROUEN DUCKS

$2 PER pair, $4 per trio, for next thirty days, 1913 hatch. 1st and 2d drake, 1st and 2d duck Iowa State Fair, 1913. Silver Campine cockerels from best imported stock, $1.50 each. Address
C. & C. T. VAN LINT - PELLA, IOWA

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

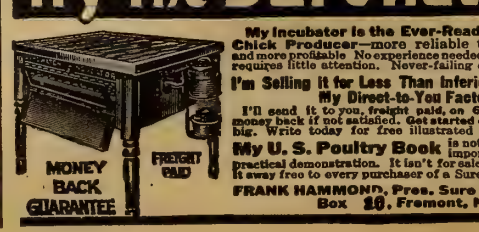
FAWN AND WHITE Indian Runner ducks and drakes, $1.00 each; $10.00 per dozen while they last. Write Mrs. Howard Niswander, Kinross, Iowa.

F and W. Indian Runner ducks and **drakes** from great laying strains. Prices reasonable Write me. Address **J. E. Lewis, Brayton, Iowa**

For Sale **Rouen Ducks.** Also **Forest Trees** at $3.00 per thousand. Write me. Address **JAMES CASSELL, FREMONT, NEB.**

75 Indian Runners Pure fawn and white; drakes 75c, ducks $1 ea. **MRS. WILL MICHAEL - SELMA, IOWA.**

Try The Sure Hatch at My Risk



My Incubator is the Ever-Ready, Ever-Dependable Chick Producer—more reliable than the setting hen, and more profitable No experience needed. Automatic in operation; requires little attention. Never-failing even in freezing weather.

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I'll send it to you, freight paid, on 60 days' free trial. Your money back if not satisfied. Get started early to make your profits big. Write today for free illustrated catalog and low prices.

My U. S. Poultry Book is not a catalog, but a book of important facts. Proven by practical demonstration. It isn't for sale at any price. I'm giving it away free to every purchaser of a Sure Hatch Incubator.

FRANK HAMMOND, Pres. Sure Hatch Incubator Co. Box 26, Fremont, Nebraska.

cracks on the outside with narrow strips of same material. The interior may be whitewashed, filling up all the crevices, and giving the house a nice appearance, as well as making it sanitary.

Make large windows in the south side fitted over with fine mesh poultry wire. Unbleached muslin may be tacked over these in severe weather, thus giving plenty of ventilation, and yet preventing a draft.

If the old houses are to be repaired, or new ones are to be built, now is the time to begin, before cold weather sets in. Clean old houses thoroughly, before beginning repair, being sure that they are free from vermin. The lime-sulphur application, same as is used for fruit trees will exterminate the lice.

It pays to take good care of the hens. In our local markets, the eggs sell all the way from 20 to 40 cents per dozen during the winter. Of course it takes feed to produce winter eggs, but there is good profit in them at the present prices.

When the first cold weather begins, the hens should be fed a little whole grain each morning. Not full feed—just enough to keep the hens hungry. After this, give them a drink of warm skim milk or butttermilk, and follow with warm, clean water. Give them free range if the weather will permit.

Feed some kind of feed stuff at noon. If cabbage is obtainable, no other feed will be necessary. The hens will relish raw turnips, beets, mangels, potatoes and apples. These may be fed more economically when chopped into small bits. Use troughs for all such foods. Boiled oats added to the chopped vegetables are good. Give them what they will clean up and no more.

Give the hens a supper of sheaf wheat scattered over the floor. This gives them exercise while scratching for their feed.

Do not confine the hens unless it is necessary, yet it is better to keep them up for weeks and properly care for them, than it is turn them out where it is so cold they have to sit around in bunches, huddled together. When the weather is severely cold, and the ground covered with snow, the fowls are better off in dry, comfortable quarters. The poultry raiser who allows his hens to roost any old place they choose, drink ice water or eat snow for water, and feed just when it becomes convenient, will never get winter eggs. Warm the corn that is given the hens, if it is frozen; give them all the clean, warm water they will consume, provide grit and green feed and feed in proper quantities, and you will have singing, cackling and laying hens, while the neighbor who permits his hens to "rough it" will be grumbling because his hens do not lay an egg, when eggs are so high.

Illinois. E. E. Rushing.

BUY NEW STOCK EARLY.

To the Editor of The Homestead:

Few people there are who do not buy new cockerels each year to get fresh blood. All too often though, they consider a "rooster just a rooster" and add different breeds and colors to their flocks, thus running their stock down in size and egg production.

Then there is another kind of poultry raiser and this is a concrete example: A woman, by hook or crook—mostly by crook, I think—got a flock of practically pure-bred fowls together and, of course, needed new stock to head her hens another season. Early, she began to juggle, pricing the stock of all neighboring flocks, and there was a goodly number of desirable ones, too. She finally sought the proprietor of the best stock within reach, and he offered her some big, pure-bred cockerels, candidly telling her that they were off in some minor point, at $1 each. The birds weighed nine pounds, or one pound over standard weight, and were worth nine cents per pound on the market. She flatly turned down the generous offer; that 19 cents was so near to her eye that she couldn't see the pounds and pounds of marketable poultry in jeopardy another season.

Late in this season, she triumphantly announced that she had bought some "splendid cockerels of the poultry buyer at 45 cents each." They were of the same color as her own, pretty fair lookers, but contained only one-half the blood of her own particular kind of chicken and the other half showed up in her youngsters the next autumn when the selfsame buyer, who sold her the cockerels, bought her surplus cockerels. They weighed only four and one-half pounds each, and she politely informed him that she didn't believe there was an honest poultry buyer on earth.

A few breeders swing too far the other way and wish the "best stock that money can buy," regardless of the fact that the highest priced stock has no place for the utility man.

Every farm flock should be headed by big, vigorous pure-bred cockerels of any preferred breed. They can be purchased of a reliable breeder at from $2 to $3 each early in the season—possibly a trifle less from a nearby flock. It is worth something to correspond, crate and run the risk of fowls suiting a far-away purchaser.

Poultry people, for the most part, do not purchase new stock until they dispose of their own surplus males, which, as a rule, run until after the holidays. With few exceptions, the better class of breeders are sold out before Christmas, and after that the chances dwindle to get desirable birds.

Subscriber.

BLACKHEAD IN TURKEYS.

R. C. Hall, Iowa, describes his flock of ailing turkeys, and the experienced poultry keeper can almost see them with his eyes shut. Mr. Hall says:

Can you tell us what is the matter with our turkeys? They stand around with drooping tails and wings, the feathers ruffled up, the head dark and the droppings are white and watery. An early reply would be very much appreciated.

For the most part, young turkeys have always been rather delicate, and hard to raise. However, the adult turkey is subject to few diseases; to one ailment is almost the whole turkey loss due—"blackhead." There is a long, imposing name for the microscopic organisms, which has no bearing whatever in the case, and would be forgotten, even if it could be pronounced.

Blackhead attacks both old and young turkeys, being especially fatal to the latter. It produces no external symptoms until the advanced stage is reached. This fact makes it doubly hard to combat. When the victim loses its appetite, keeps apart from the rest of the flock, the wings droop, the head and comb turn dark and diarrhea sets in, the bird has been afflicted many weeks, possibly months.

Turkeys should be carefully watched, and if one begins to get slow, always bringing up the rear, better get busy and hold a post-mortem. If the liver is enlarged, marked with white or yellowish spots, the ceca—"blind gut"—inflamed and plugged with pus, it is blackhead, and the turkey is doomed. In a few instances they recover, and to the detriment of the flock, unless they are disposed of before the breeding season. Turkeys that have been afflicted with this dreadful disease, will produce weaklings.

During the course of the disease, the parasites multiply in the ceca, get mixed with the intestinal contents, and become discharged with the excrement. In this way the contagion is spread, not only through the food and water, but in pastures, and wherever they range. For this reason every ailing turkey should be promptly isolated. Give epsom salts, one teaspoonful, to three turkeys, followed by sulphur ten grains, sulphate of iron one grain, sulphate of quinine one grain. The latter prescription is a tonic, and the amount for only one turkey.

This disease is so obscure, so difficult to handle, that profitable turkey raising is practically impossible, where it has once become established. However, there is hope in the fact that the results of the scientific work now being done at our experiment stations will help control this disease, as they have the more common poultry troubles.

There is no better time to get a start in pure-bred stock than in the autumn. A good pen, or trio, purchased now, and rightly cared for, will make a splendid foundation for a future flock. The second year from starting would give one a flock large enough for the average farm. Taking it all in all, it is the cheapest and best time.

POINTERS

—Mrs. J. A. Rice, Hillsboro, Iowa, has big-boned White Holland turkeys for sale. Her advertisement appears on page 22.

—On page 22 appears the advertisement of Elza Nolin, Monroe, Iowa, offering White Wyandotte cockerels and yearling hens for sale.

—Mrs. C. H. Schmidt, R. 1., Tripoli, Ia. advertises White Holland turkeys on page 22. She offers healthy, vigorous birds at the most reasonable prices.

—On this page of The Homestead will be found the advertisement of Murl Edwards, Rockbridge, Ill., offering Single Comb Brown Leghorns for sale.

—When wishing White Holland turkeys, White Pekin ducks and White African guineas, consult the advertisement on Edw. Dooley, Selma, Iowa, as appears on page 22.

—The Glynn Poultry Yards, Cascade, Iowa, can supply Homestead readers with Single Comb Buff Orpington cocks, cockerels, hens and pullets. The advertisement appears on page 22.

—A choice lot of Singe Comb Brown Leghorns and Single Comb Rhode Island Reds are offered for sale by Mrs. A. N. Bonnett, Birmingham, Iowa, in her advertisement on this page.

—F. H. Hassler, Manning, Iowa, breeder of Buff Plymouth Rock is advertising cockerels on page 22. He informs us that he raised 250 extra good birds this year and that every lot of them are from show stock foundation. He is able to furnish good color and good size stock at the remarkably low prices quoted in his advertisement.

—Mrs. P. W. Reece, Elmore, Minn., can supply Homestead readers with choice Rose Comb Brown Leghorn cockerels, at very reasonable prices, as named in her advertisement on this page.

—E. H. Bente, Elkader, Iowa, is quoting prices on White Holland turkey toms, Embden geese ganders, Pekin duck drakes, White Orpington, Wyandotte and Leghorn cockerels, in his advertisement that appears on page 22.

—Mrs. S. E. Newell, R. 6, Audubon, Iowa, offers for sale black and white Langshans, Single Comb Buff Orpingtons, Light Brahmas, Rose Comb Rhode Island Reds and Mammoth Bronze turkeys. See her advertisement on this page. She informs us that she has a large number of choice birds and that after Dec. 1st, she will be able to furnish score cards for those who want scored birds.

—Frank Nash, Minden, Neb., is offering S. C. White Orpington cockerels at the present time and he sure has a fine lot of birds to select from. This is one of the oldest flocks of the high-class White Orps. in the West and while all birds offered for sale are unscored, there are many that will score high. The prices are right, being from $1.50 to $2.50. Only a few at that price and a really good cockerel can be had for $2. Order at once and save delay. See advertisement on page 22.

—J. A. Holmes, Steamboat Rock, Iowa, breeder of Single Comb Rhode Island Reds, in furnishing copy for his advertisement found on this page, writes: "I culled my flock close this spring and, therefore, have not as many birds as usual. However, I find that they are by far the best I have ever raised, and in order to reduce my stock before cold weather have decided to offer a limited number at very low prices considering quality. I guarantee satisfaction and will cheerfully refund money paid for any of my stock if for any reason purchasers are dissatisfied."

WRITES LETTERS UNTIL MIDNIGHT

THEO. MARTIN, Bellevue, Iowa, breeds Barred Plymouth Rocks, and began to advertise them in The Homestead. Now he says: "In the same mail with the copy of The Homestead containing my advertisement came an inquiry for the birds. Every mail since has brought inquiries, and I have to stay up until nearly midnight answering letters from seemingly everywhere. If all order who wrote, I will soon be sold out." Most patrons of The Homestead have the same success. Breeders who have birds for sale should obtain advertising rates. Address

THE HOMESTEAD CO. - DES MOINES, IOWA

LEGHORNS.

ROSE COMB BROWN LEGHORN COCKERELS
At the Pike Timber Stock Farm
DAVENPORT & MACK, BELMOND, IOWA

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels; also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Frechel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

250 S. C. BROWN LEGHORN cockerels, hens and pullets, 75c and $1 each. Sires score to 93½. Winners for 10 years. Buff Cochin Bantams, 75 cents. Address Mrs. Will Michael, Selma, Iowa.

SINGLE Comb White Leghorns, 250 ckls. at bargain prices, guaranteed to please. $1 and up; circular and show record free. W. F. Wallace, Diagonal, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels, $6.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley Selma, Ia.

S. C. W. Leghorns, Young's strain, unscored cockerels, $1; scored, $2.50 and up; pullets, $1 each. Address Mrs. Wilson McIntyre, Red Oak, Iowa.

LEGHORNS—Rose and Single Comb, Buff, White and Brown, $1.00 each. Doz. $10.00. Progressive Poultry Farm, Hampton, Iowa.

LEGHORN COCKERELS S. C. Brown and White, $1 each. All good; early hatched. Ira Terry, Auburn, Nebraska.

FOR SALE—CHOICE LOT OF S. C. WHITE LEGHORN cockerels, 6 for $5. Mrs. S. J. Philson, Harlan, Ia.

FOR SALE Fine pure bred R. C. Brown Leghorn cockerels, $1 each; $10 per dozen. Mrs. Roy Landis, Weldon, Iowa.

100 S.C.W. Leghorn yearling hens, finest breeding, at $1 each or $10 doz. 100 choice cockerels at $1 each. Eggland Farm, Mt. Vernon, Iowa.

CHOICE R. C. B. Leghorn cockerels for sale at $1 ea., 6 for $5. Fine birds from choice egg-producing strains. Mrs. P. W. Reece, R. 3, Elmore, Minn.

Well Marked S. C. Brown Leghorn Cockerels 75c
MURL EDWARDS - ROCKBRIDGE, ILL.

For Sale Choice lot of Single Comb Brown Leghorn and Single Comb Rhode Island Red ckls. Mrs. A. N. Bonnett, Birmingham, Iowa.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY
Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

S. C. Rhode Island Red Cockerels HIGH-CLASS, farm raised, dark velvety red, heavy-boned fellows that will improve your flock. $1.50 and up. Mention The Homestead.
L. G. Johnson, Box H, Steamboat Rock, Ia.

Single Comb Rhode Island Red Cockerels for sale at $1.00 and $1.50 each; also White Holland toms of good size and pure white at $3.50 each during November. Jesse D. Howarth, Route 2, West Grove, Iowa.

SINGLE COMB RHODE ISLAND REDS LARGE, vigorous cocks, cockerels and pullets from $1.50 up. Real Reds at right prices. Satisfaction guaranteed. J. A. Holmes, Steamboat Rock, Iowa

S.C.R.I. Red Cockerels from $1, $1.50 and up; Fawn Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

NINE years breeder R. C. Reds. Cockerels at bargains next 30 days, Tompkins strain, none better. Satitfaction guar. W. H. Patton, Iowa City, Ia.

SINGLE Comb Rhode Island Reds, both sexes; Single Comb Brown Leghorns, cockerels from choice stock. Mrs. Geo. Maunning, Birmingham, Ia.

FOR SALE—Rhode Island Reds, both combs. Pullets $1.25 each; yearling hens $1.00 apiece. Address Woodlawn Farm, Sterling, Illinois.

CHOICE S. C. Red ckls., pullets, yearling hens $1 ea. Bourbon Red turkey hens $3, gobblers $5; I. R. drakes $1. Mrs. Laun, Riverdale Farm, Floyd, Ia.

FOR SALE R. C. R. I. Red cock, cockerels, hens, pullets and a few choice S. C. pullets. Mrs. Charles Belz, Conrad, Ia.

LANGSHANS.

B. LANGSHANS, Runner ducks; cockerels, hens and pullets, $1 to $3. Satisfaction guaranteed. Circular free. Bert A. Randell, Mt. Zion, Iowa.

FANCY big-boned, greenish, glossy, black eyed Langshans, $5 each. Good breeders, three for $5, cockerels, pullets. H. Osterfoss, Hedrick, Iowa.

B. and W. Langshans, S.C.B.Orps., Lt.Brahmas, R. C.R.I.Reds, M. B. turkeys, choice birds, reasonable prices. Mrs. S. E. Newell, R. 6, Audubon Ia.

MISCELLANEOUS.

55 BREEDS
FINE PURE BRED POULTRY.
Ducks, Geese, Turkeys, Collie Dogs. A lifetime experience with poultry. Send 4c for my big book and price list. Write us for anything in the poultry line—we are headquarters.
H. H. HINIKER,
Box 32 Mankato, Minn.

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96½ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog.
E. & J. W. Trettin, Grafton, Iowa

BARGAINS in all varieties Wyandottes, Orpingtons, Minorcas, Reds, Rocks, ducks, geese, turkeys. Progressive Poultry Farm, Bx. 10, Hampton, Ia.

EMBDEN ganders $2.50, White Holland toms $5, Pekin drakes $1.50; cockerels Orpington, White Wyandotte, Leghorn. E. H. Bente, Elkader, Iowa

CLOTHCRAFT

To the Man who wants Clothes-Satisfaction

You don't have to buy a Clothcraft suit to prove its value—simply try it on. You know whether clothes fit you or not, whether they have style and correct shape and attractive fabric or not.

The photograph

All-wool, durability and shape-retaining qualities are other matters—not to be recognized by a look. So they are fully guaranteed, by the dealer and by us, in every Clothcraft garment.

Here are the only ways we can show Clothcraft Clothes in pictures. One is a drawing from life, the other a photograph. Same man, same overcoat in both. Try on a Clothcraft overcoat before a mirror, and it will look as well on you. The style and fit and good appearance of Clothcraft are in the clothes—not just in the pictures.

Men who have never worn Clothcraft may consider our claims extravagant, as the clothes sell at only $10 to $25—the only guaranteed all-wool line at those prices. But when you try on a suit, ask about the guarantee.

Write us for an introduction to the Clothcraft Store. We'll also send the new Style Book and tell you about *No. 4130 Blue Serge Special*—the best all-round suit we can make at $18.50.

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THE JOSEPH & FEISS CO.
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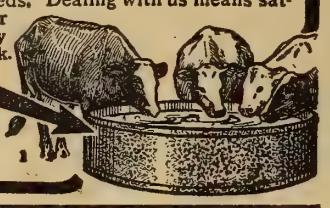
The drawing

STOCK WATERING TANKS

SAVE ¼

Guaranteed Satisfactory

Every farmer needs a tank—why not buy one that is made right and will last a life-time? We will save you about ¼ on the most durable and satisfactory Louisiana Red Cypress Wood and Galvanized Steel Tanks on the market. We make the exact style and size to meet your needs. Dealing with us means satisfaction or money back.



Write for Catalog

If you are figuring on buying a tank—either now or later—it will pay you to write for our catalog of Tanks, Hay Racks, etc., and get our low, money-saving prices. A postal will bring it. Ask about our combination hay and cattle racks.

BURNHAM MFG. CO. Dept. A Charles City, Ia.

EVER HAVE GOOD HARNESS RUINED BY A LITTLE RIP?

Many dollars' worth of harness, saddles, boots, shoes and other kinds of leather goods are ruined every year by neglect.

To put up with a rip in your expensive leather goods is a mistake.

It means that you will soon have to buy another article at a big price, while your thrifty neighbor has saved his money by taking a STITCH IN TIME.

You can get one of the famous speedy stitcher sewing awls free with a year's subscription to THE IOWA HOMESTEAD. With it you can sew your harness, saddles, boots, shoes, canvas and carpets without any trouble or expense.

It makes a lock stitch same as a sewing machine, and is very simple. A woman can operate it as well as a man. It is put up with three diamond pointed grooved needles, two straight (large and small) and one curved, and one bobbin filled with wax thread ready for use, all enclosed in handle out of the way.

The metal parts are nickel plated and each awl is guranteed to give perfect satisfaction, or your money will be cheerfully refunded. Printed directions sent with each awl.

Why not let us send you one today? These are the days when you have time to mend everything that needs mending.

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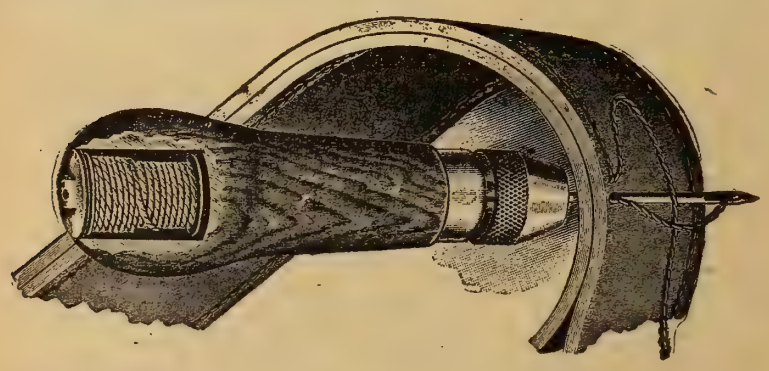
Simply fill out the coupon below and return to us with $1.00 to pay for a year's subscription (either new or renewal) to THE IOWA HOMESTEAD, and we will send you one of the speedy stitcher sewing awls, free and postpaid.



Address all letters to

THE IOWA HOMESTEAD, DES MOINES, IOWA

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Address.....

In and Around Wisconsin

BRINGING with him a new forage plant which he discovered on the Siberian steppes near the Mongolian border, Prof. N. E. Hanson, of the South Dakota Agricultural College, has just returned from his fifth trip to Russia and his fourth to Siberia. He visited in La Crosse while on his way home. Professor Hanson is enthusiastic about his new forage plant. He discovered it while looking for Siberian varieties of alfalfa, suitable for the extreme temperature changes of the Northwest. He believes that the new plant will thrive under higher temperatures in summer and lower in winter than any known in this country. Professor Hanson refused to give any description of the plant before making his formal report to the college.

Three school districts in Walworth county have been combined and an automobile conveys the children to school. They do not have to leave home so early in the morning or arrive at home so late at night as when walking to the district schools.

From $12 to $14 per ton is being paid for cabbage to Brown county growers and large shipments are being made. An Eau Claire county farmer this year realized $1,361.83 on cabbage, an average of $170.23 per acre.

The Mulefoot breed of hogs, said to be immune from hog cholera, is being introduced into Richland county, where hog cholera has wiped out the entire herds of some farmers. Some have even had to purchase hogs at the stock-yards for home consumption.

The new piece of concrete road across the bottom east and west of the river bridge on the state road west of Brodhead has been pronounced an excellent piece of work. The concrete is eighteen inches deep and nine feet wide with five feet of macadam on either side.

Heavy yields of clover seed are reported from several parts of the state. In July, R. E. French, a Langlade county farmer, cut seventeen big loads, aggregating twenty tons, of alsike clover from nine acres. In September he harvested a second crop from the same tract, threshed it, and obtained a yield of twenty-six bushels and twenty pounds of seed. The seed was worth $12 a bushel, making the second crop worth $318 or $34 per acre. R. H. Thomas, a farmer in the town of Delavan, Walworth county, secured a yield of 178 bushels of clover seed from thirty-seven acres, and A. C. Baken, residing near Reeseville, Dodge county, was recently paid $182.40 for nine bags of the seed.

The Farmers' Co-operative Creamery Association of Tomah has awarded a contract for the construction of an addition to their creamery, 48x72 feet in dimensions. The building is to be completed in March and will be equipped with the most modern butter and ice cream making machinery.

A ginseng and golden seal nursery will be one of the attractions next year at the Druggists' National Home at Palmyra.

Although many of the fields on the Starks Company potato farm near Rhinelander were injured by the blight last summer 35,000 bushels of fine potatoes were harvested from the 400 acres planted, and they will realize over $17,500 from them, even at the present prices, thus paying for the land the first year, and all for the expenses of clearing, planting, and harvesting. Not less than 600 acres more will be planted next year. Adam Helper, a farmer near Pardeeville, raised 1,784 bushels of potatoes on six and a third acres this year, and figuring at the price of 45 cents per bushel, the crop was worth $86 per acre. W. H. Webb, of Superior, has bought two tracts of land at Woodrow Spur on the Soo Line and will plant about half of it to potatoes. On one tract is an old lake, the shores of which are covered with thousands of tons of peat. Several hundred tons of this will be spread on the land next spring and plowed under. Phosphate and lime will be added as needed.

Buyers are making a rush for the 1913 tobacco crop in all sections of the state where the leaf is grown and prices are running from 12 to 15 cents. Rumors are current of sales at 17 cents a pound. In a very short time the entire crop will have been taken out of the hands of the growers. Even damaged leaf brings 8 cents a pound.

Chairman E. G. Boyden, of Pittsfield, has finished one of the biggest jobs of removing logs from a roadway that has been attempted in Brown county in many years. Five hundred cords were taken from three and one-half miles of the Shawano road. The cost of the work was only $260, and the division highway engineer, W. M. Conway, believes that the town deserves great credit for improving one of the main highways leading into Green Bay from the northwest.

More than 16,000 bushels of potatoes were shipped out of Robbins station, Oneida county, this fall. The crop averaged about 200 bushels to the acre.

Favorable reports on the proposed building of a permanent road between Bayfield and Douglas counties were made at the meetings of the county boards of these counties as the result of the recent inspection of the road which has been made by a joint committee of six. The estimated cost of the road is $100,000.

More than 50,000 bushels of potatoes will be transported from Washington Island, Door county, this season by sail craft. The tubers are transported to the Chicago and Milwaukee markets.

Large quantities of barley have been moved on Lake Winnebago this fall. Recently the steamer Leander Choate brought from Calumet Harbor to Fond du Lac 3,000 sacks in one cargo, or about 7,000 bushels in all. It took seventy large wagon loads to haul the grain to the malting company's plant. The farmers in the vicinity of Calumet Harbor bring their grain to the dock where it is loaded on board the boat.

The four months, short course for young men and women at the Dunn County School of Agriculture was opened up on November 17th. The course of study is wholly practical. Work is offered in farm crops, animal husbandry, agricultural engineering, manual training, domestic science, English and arithmetic. Work begins at 9:20 a. m. and continues to 3:15 p. m., making it possible for pupils to return to their homes at night if they desire. No tuition is charged, but the materials used in the laboratories are paid for by the students.

National and state banks at Waupun have been notified that their petition for a second annual bankers' corn and grain contest has been granted. The contest last year was a decided success and brought out many excellent exhibits. Pure-bred seeds were distributed last year and the product of this seed will be placed in a class by itself at this contest. The college of agriculture will again furnish some members of its faculty to judge the exhibits and deliver lectures. Cash prizes will be offered with a liberal sweepstake prize.

More than 1,400 pounds of butter were confiscated in Milwaukee on the 4th inst. by deputies of the city health department. The butter is the product of a large producer and shipper who has done a great volume of business in Milwaukee. Partial analysis showed that the butter was adulterated with corn starch at the rate of about ten pounds to every hundred pounds of butter.

C. H. Nehrlich, of Lyndon, has sold fourteen head of pure-bred Holstein cattle to a millionaire miner of St. Louis for $5,000.

THE CARE OF INNER TUBES.

To the Editor of The Homestead:

A pneumatic automobile tire is an envelope for the air pressure it retains. The casing provides the tensile strength necessary to sustain the internal pressure and to resist road wear; the function of the inner tube is to provide an air-tight lining for the casing. The casing is the more expensive but this does not prevent the by-no-means inconsiderable saving that a few simple precautions with the tube will return.

It ought to be borne in mind that the tube is the most delicate part of the tire and that to yield the highest efficiency it ought to be treated to correspond. The tube in itself has comparatively no tensile strength; it simply flattens itself out against the inside of the casing. If ever the casing becomes too weak at any point, the tube blows out; in itself it cannot restrain the pressure of the inside air cushion.

To insure good tire service, the motorist takes precautions against tire trouble. The first problem is to take care of the casing that it will successfully protect the inner tube. The motorist also will be interested in knowing the things to do to avoid unnecessary trouble with his tubes.

One of the fundamentals is proper selection. It is a matter of no little consequence to select from the many styles now on the market, each having apparent advantages to recommend it, the type which best satisfies the essential requirements for reliable service. As the function of a tube is that of an air-tight lining, for the casing the most satisfactory tube is one that not only fulfils this requirement best but which retains its air-tight property longest. To remain air-tight the tube must be elastic, as in service it is subject to continual flexing.

In general, there are two classes of tubes on the market—pure gum and compounded. The compound tube is usually thicker than the pure gum type and increased thickness is desirable because it decreases the susceptibility to pinching and puncturing. Pure gum tubes are usually not as thick because of the extra and essentially unnecessary expense this would involve. But the extra thickness of the compounded tube introduces more disadvantages than this one advantage can compensate for.

Originally, a compounded tube is air-tight and highly elastic. But it can't retain these qualities long. The inorganic compounds it contains not only are good conductors of heat, so increasing the tendency to heat, but are themselves capable of deteriorating the rubber, especially when heated. In service there is a natural tendency to heat and the pure gum tube resists this tendency, being harder to heat, and in addition, is not so easily injured by heat. This is very important in its effect on repairs. It is difficult to repair a compounded tube satisfactorily. Its adhesion to pure gum vulcanized repairs is not perfect and the heat necessary to cure the repair seriously injures the part of the tube affected. For a short time a compounded tube may give good service, but the pure gum tube is the only type capable of all-around consistent service.

First of all, the immediate conditions should be considered. The inside of the casing should be clean. If any dirt is present, it chafes the tube, weakening it sometimes to the yielding point. Suppose, as often happens, a nail or a stone finds its way inside the casing. When the tube is inflated, it is flattened against the inside of the casing by the pressure and it is forced with equal pressure against these foreign substances. Frequently they cut the tube before it is fully inflated. And so, the first requisite is that the inside of the casing be kept clean.

Besides the inside of the casing, the tube also comes into contact with the rim between the beads of the casing. The rim accordingly also should be clean and smooth. The chief damage from rims, however, arises from their tendency to rust. Rust, aside from making the rim rough, eats into the tube. Perhaps the most effective way to deal with this is to paint the rim with graphite paint. Whenever possible, this should be done. Flaps to be placed between the rim and tube offer protection from the rim and rust, and are of advantage provided the user is careful not to pinch his tube between the edges of the flap and the bead of the casing, a condition discussed a little further on.

For the repair of punctures and blow-outs, it is necessary frequently to remove the tube from the casing. For this reason the tube should never be permitted to stick to the casing, something it ordinarily has a tendency to do. This is obviated by the generous use of French talc.

Most motorists realize the damaging effect of running a tire flat after a puncture. The casing is quickly ruined beyond repair, but the tube is even more easily ruined. Driving a short distance with the tire flat will grind up the tube into pasty shreds.

We come now to a discussion of the cause of more tube trouble perhaps than all other causes combined—pinching. Again and again, the motorist has been surprised when driving his car carefully on the best of roads, to have an explosion announce a blow-out on one of his tires, which, after his examination, proves to be an internal one. The casing has not been cut and bruised; it is in perfect condition. Still the tube, without apparent cause, has split for the space of a foot and is worthless.

The cause is to be found in the tire's history a short time previously. The last time the tube was removed from the casing and then applied again, a small part of it was caught between the rim and the bead. On being inflated, too much strain was centered at this pinch. The weakening was gradual but the eventual blow-out was certain. Sometimes the blow-out comes more quickly, at times while the tire is being inflated. The tube may also be pinched between the spreader at the base of the valve stem and the stay bolts. Its effect is the same as a pinch at the edge of the bead.

Because of the manner in which regular clincher casings are applied to their solid rims, pinching at the edge of the bead is more frequent in the use of this type than any other. The elastic bead must be stretched over the side of the rim with a tire iron and care is necessary to prevent a pinch. The tire iron itself, if not carefully used, is likely to damage the tube. Later, the weakened spot announces itself by a blow-out.

A final precaution will pretty well insure against disappointing tube service, and that is this: protect your spare tubes. Usually the spare tubes are folded and carried in the tool box. Here they come in contact with greases, oils and tools which present sharp edges. The tube will frequently be shifted around during a search for some needed article. In time this shuffling around chafes and deeply wears the folded edges. Often a tube is actually worn out in a tool box before it is ever used. Tubes should always be carried in bags or in the paste board boxes with which their maker furnishes them. F. A. Henderson.

SHREDDING CORN FODDER.

To the Editor of The Homestead:

Nearly every farmer in this locality has his corn shredded and even some who have silos. Two years ago I was quite undecided whether to shred, as usual, or not, so I sat down and figured what it would cost to hire it husked, cribbed and fodder stacked by hand. Also figured up total cost of shredding if all the work was hired and the shredding only figured up about $3 more than hand husking. Shredders around here will use nothing but coal for their engines and the coal that was used to run the engine made the extra expense. If the engineer burned wood (all the farmers had wood to burn) hand husking and shredding would be about equal in cost, that is, figuring the same as if the work was hired.

I based my figures on a field of eleven acres representing nearly one and one-half days' shredding for a six-roll shredder. Of course, if a man has only a few acres cut up and has time to husk it by hand and intends to feed it outside it would not pay to shred. But where a farmer cuts up all or nearly all of his corn and feeds it in the barn to all the stock, or is short of straw for bedding, then it pays and pays well. First, he makes hay out of his corn fodder; second, what the stock don't eat makes the best of bedding ready to hand; third, he can get it into a much smaller space and it is much easier to handle than if in bundles. While some corn gets shelled off, not much is wasted where hogs and chickens are kept.

One year I had not barn room for all I shredded so was obliged to stack part of it, and it kept as well or better than hay would. About the only objection to stacking is in case the wind blows hard while shredding, much of the best fodder is blown away.

I feed it outside of feed rack, or old wagon box or leaky tank and prefer it as an outside feed to anything I can get, even to corn fodder in bundles. Several others and myself, in this neighborhood, only figure to have enough hay to feed the latter part of March until grass comes. Until then we feed shredded fodder altogether to all the stock, as roughage, except those who have silage or lots of straw.

I prefer my corn cut by hand eight hills square and cut with a "horse." Others prefer the corn binder, but in either case there is but slight difference in the labor of getting it to the shredder.

The entire cost of shredding where the farmer does all the changing necessary to secure help is but $15 or $16 a day for a six-roll shredder and the price of about half a ton of good grade soft coal. The eight, ten or twelve-roll shredders generally cost $25 a day and use about one ton of coal a day. Where a gasoline engine is used the cost of fuel is considerably cheaper and the fuel is easier to get. For the six-roll shredder it requires three to five teams to haul depending on distance to farthest end of cornfield, one man to crib the corn, one or two in barn, two to pitch bundles or bounce shocks on wagons, and usually one to help unload if cut by hand or cut bands if in bundles. The larger machines generally require two to fifteen men besides the regular shredder operators, but they shred nearly twice as much as a six-roll. While the larger machines generally shred an acre a little cheaper than the smaller ones, it is generally the best policy to take the first one that comes along provided your corn is dry enough to crib.

As to the results of feeding shredded fodder, I consider it second only to clover hay for cows and ahead of anything else for horses. For sheep it "takes the cake," but don't overfeed at the start no matter what kind of stock you feed it to. The first year I shredded I had to send for a veterinarian within three days after I shredded, for one of my horses. He soon got better, but I know a neighbor who lost a good young horse from the same cause even though he called the veterinarian. Feed hay or straw at least once a day until used to it and only fill mangers half full of shredded fodder. Geo. M. Heiberger.

Clayton County, Ia.

To the Editor of The Homestead:

For those wishing information regarding the shredding of corn fodder I will give the following facts, according to my experience. The cost per acre for shredding is $2, but in the case of listed or drilled corn it will cost $2.50 an acre. The help with men and teams will amount to that much more, making in all a little more than $4 an acre.

There will be a great deal of corn shelled, something like four or five barrels to a hundred shocks of corn, but this comes in very handy for chicken feed and saves the good housewife the labor of shelling the corn as some have to do.

After the corn is run through the shredder the grain is ready for the crib and the fodder is run into the mow or barn, out of the weather and handy for feed. In my opinion it makes as good feed for work horses as hay. In some cases it is used during the following summer and the stock come through in good condition.

Of course, some of the fodder is not cleaned up by the stock, but it may be used for bedding and it makes the best manure.

When one has the shredder to do the work the bother of corn shocks is a thing of the past.

Mahaska Co., Ia. Mrs. J. E. Besco.

Hard roads earned $10,800 for Folker Ibens, of Milledgeville, Illinois, in eight months. Last March he bought a farm of 216 acres, four and a half miles from town. He paid $150 an acre for it. Last spring Wysock township, in which the farm is located began the construction of fourteen miles of hard roads. The tax on the farm of Mr. Ibens was $70. The road did not come closer than a half mile of his home, but as a result of being able to get to town at any season of the year, a demand was created for the place. Recently he refused an offer of $200 an acre for the farm.

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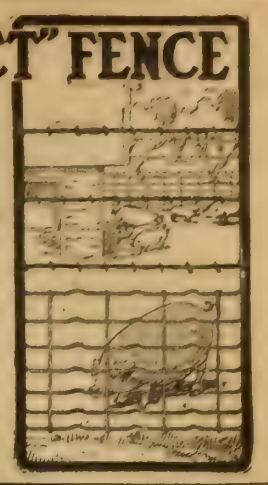

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NEWS OF THE SALE RING

Stone's Aberdeen Angus Sale.

The sale of Aberdeen Angus cattle held at Kansas City on November 14th by Marion C. Stone, Milan, Mo., proved one of the best places to get bargains in good Aberdeen Angus cattle that has been found recently. Mr. Stone had listed some of his very best young things and they were in fine condition, but with only a handful of buyers they went at bargain prices. The general average on the forty-five head was $112. The top on bulls and the top of the sale, $220 was paid by W. S. Swart, for the Trojan Erica bull, King Erica of Five Gates, an October yearling. W. I. Williams, Belton, Mo., was the heaviest buyer of females and he certainly secured bargains. Two of the finest things in the sale were the twin Trojan Erica heifers secured by W. A. Holt, Savannah, Mo., at $130 each. Colonels Reppert, Graham and Igo were the auctioneers. Following is a list of sales of $100 and over.

FEMALES.

Eppy 5th of Five Gates, calved July 5, 1909; R. J. Ellis, Lawrence, Kan. $185.00
Eppy 7th of Five Gates, calved May 13, 1911; Venable Bros., Leeton, Mo. 125.00
Eppy 8th of Five Gates, calved May 27, 1912; W. A. Holt, Savannah, Mo. 130.00
Eppy 9th of Five Gates, calved May 27, 1912; W. A. Holt..... 130.00
Eppy 10th of Five Gates, calved Oct. 25, 1912; Geo Stevenson, Jr., Kansas City, Mo. 115.00
Pride 9th of Five Gates, calved Mar. 1, 1908, and c. c.; S. M. Stewart, Mt. Sterling, Iowa.... 110.00
Pride 14th of Five Gates, calved Aug. 20, 1912; E. Hedstrom, Lost Springs, Kan. 132.50
Pride 15th of Five Gates, calved Jan. 9, 1912; W. I. Williams, Belton, Mo. 130.00
Pride 17th of Five Gates, calved Jan. 11, 1912; H. F. Cabble, Strassburg, Mo. 137.50
Pride 19th of Five Gates, calved Jan. 6, 1913; Paul Culver, Edge Mo. 112.50
Lady Ida of Five Gates, calved Dec. 17, 1908, and b. c.; W. I. Williams 125.00
Lady Ida of Five Gates, calved Dec. 20, 1910, and b. c.; J. E. Dean, Bosworth, Mo. 115.00
Lady Ida 8th of Five Gates, calved Jan. 6, 1912; W. I. Williams .. 110.00
Abbess 2d of Five Gates, calved Nov. 23, 1909; W. I. Williams.. 105.00
Duchess Nelly 8th, calved Nov. 5, 1908, and b. c.; E. Hedstrom... 140.00
Duchess Nelly 12th, calved Oct. 22, 1911; Venable Bros. 120.00
Duchess Nelly 10th, calved Dec. 12, 1909; W. I. Williams 100.00
Zara 4th of Five Gates, calved Oct. 28, 1909; R. S. Williams, Liberty, Mo. 125.00
Pride 10th of Five Gates, calved Sept. 16, 1908; S. M. Stewart .. 125.00
Duchess Hortense 8th, calved 1908, and b. c.; A. B. Venable, Leeton, Mo. 125.00

BULLS.

King Erica of Five Gates, calved Oct. 30, 1912; W. S. Swart, Blairstown, Mo. 220.00
Kilburn 2d of Five Gates, calved Jan. 13, 1913; S. M. Stewart ... 225.00
Nabob of Five Gates, calved Oct. 25, 1912; Geo. Stevenson, Jr... 175.00
Nabob 2d of Five Gates, calved Nov. 2, 1912; W. A. Audsley, DeWitt, Mo. 130.00
Oran of Five Gates, calved Nov. 14, 1912; H. W. Burtrum, Windsor, Mo. 100.00
Black Dan of Five Gates, calved Nov. 13, 1913; H. F. Cabble ... 120.00
Abbott of Five Gates, calved Sept. 21, 1912; G. H. Grimes, Smithshire, Ill. 180.00

SUMMARY.

36 females ..$3,725; average....$103.47
9 bulls ..... 1,215; average.... 146.11
45 head ..... 5,040; average.... 112.00

Mrs. Gorder's Poland China Sale.

The Poland China sale of Mrs. August Gorder, at Plattsmouth, Neb., on November 12th brought out a nice crowd of breeders and farmers and she sold forty-eight head at an average of $30.40. The top was No. 2 of catalog, a fall boar sired by Teddy and out of a Centennial dam and he went to Jacob Dietsch, Boone, Neb., at $135. He was a splendid boar in every way, and was really one of the best fall boars seen in any sale this fall. His litter brother went to E. C. Huff, Wiota, Iowa, at $70, and he was a splendid bargain at that figure. Joseph Nansel, of Council Bluffs, was a liberal bidder and he secured five head and Frank Owens, also got some very excellent bargains. Col. Harve Duncan cried the sale. Below we list those that sold for $25 and above:

1. Ben Duker, Plattsmouth, Neb.$ 29.50
2. Jacob Dietsch, Boone, Neb. .. 135.00
3. E. C. Huff, Wiota, Iowa..... 70.00
4. Pitts & Adams, Plattsmouth, Neb. 60.00
5. Peter Holmes, Plattsmouth, Neb. 36.00
6. P. A. Held, Mynard, Neb..... 36.00
7. Joseph Nansel, Council Bluffs, Iowa 27.50
8. Ben Duker, ... 35.00
9. Joseph Nansel 37.50
10. Frank Owens, Council Bluffs, Iowa 35.00
11. C. L. Mayabb, Plattsmouth, Neb. 37.50
15. J. H. Healy, Manilla, Iowa.. 32.50
13. W. R. Young, Murray, Neb... 37.00
14. Joseph Nansel 31.00
16. Frank Owens 40.00
17. Paul Solko, Wyoming, Neb... 35.00
29. J. B. Seyboldt, Murray, Neb... 26.00
32. P. A. Held 35.00
33. John Hobschordt, Murray, Neb. 30.00
34. Arthur Sullivan, Plattsmouth, Neb. 26.00
36. Michael Schiltz, Earling, Ia. 25.00
49. P. A. Held 27.50
38. R. B. Stone, Nehawka, Neb... 30.00
40. Frank Owens 57.50
41. Harley Wites, Plattsmouth, Neb. 62.50
48. Joseph Nansel 25.00
0. J. N. Elliott, Plattsmouth, Neb. 27.00

Harry Dodds' Poland China Sale.

A good crowd attended the H. T. Dodds Poland China sale at Florence, Neb., on November 13th and he sold forty-two head at an average of $36.40. The top of the sale was No. 22 and she went to Carl Marks at $70. No high prices were paid, but it was an even range, and while the offering was worth more money it was satisfactory to Mr. Dodds. Iowa buyers were out in full force and over half the offering went across the river. Col. Harve Duncan cried the sale in his usual successful manner. Below we list those selling for $25 and above:

1. J. B. Striellett, Kennard, Neb. $40.00
2. A. B. Duncan, Shannon City, Ia. 37.50
3. Joseph Nansel, Council Bluffs, Iowa 33.00
4. J. H. Healey, Manilla, Iowa... 41.00
5. J. B. Striellett 40.00
6. Henry Scott, Weston, Iowa... 34.00
7. C. A. Hill, Trumbull, Neb..... 32.50
0. A. F. Tiarks, McClelland, Ia... 62.50
9. F. W. Beck, Council Bluffs, Ia. 52.50
10. Chas. Behlers, Wisner, Neb... 62.50
13. Frank Owens, Council Bluffs, Iowa 82.50
14. I. N. Minnick, Council Bluffs, Iowa 30.00
16. Jacob Dietsch, Boone, Neb..... 42.50
20. Frank Poeschl, West Point, Neb. 42.50
21. I. N. Minnick 27.00
19. J. H. Healy 62.50
17. Maurice Lonergan, Florence, Neb. 26.00
18. Maurice Lonergan 26.00
22. Carl Marks, Neola, Iowa 70.00
23. Dr. H. Pritchard, Florence, Neb. 45.00
24. E. W. Youell, Tekamah, Neb. 40.00
27. Henry Lewin, Hartford, S. D. 55.00
26. Paul Wagner, Pierce, Neb.... 45.00
25. A. F. Tiarks 41.00
28. F. L. Rood, Clearfield, Iowa.. 35.00
30. F. J. John, Spaulding, Neb.... 26.00
31. F. L. Rood 25.00
32. Frank McCauley, Springfield, Neb. 45.00
38. E. Brookman, McClelland, Ia. 25.00
36. I. N. Minnick 25.00
37. I. N. Minnick 25.00
42. I. N. Minnick 32.00
34. I. N. Minnick 32.00
33. I. N. Minnick 30.00
43. E. B. Evans, Council Bluffs, Ia. 25.00

Hollingshead's Poland China Sale.

On November 11th, at Chariton, Iowa, R. C. Hollingshead made a sale of fifty-two head of Poland China boars and sows and made an average of $37.75 on fifty-two head. It was one of the very excellent offerings sold this fall and those that were present were surprised with the high-class lot of boars and sows that he had cataloged for this sale. Mr. Hollingshead is a new breeder, but he has demonstrated his ability as a hog man and while this was the first sale he ever made, it goes far toward establishing his herd and making it one of the best today in the state. The top of the sale was a spring boar No. 16 of catalog, and he was bought by D. H. Jacobson, Gilbert Station, Iowa, at $109, and he certainly was a great bargain at that price. M. G. Arnold, Strawberry Point, Iowa, got a great pig in No. 20, and S. U. Peace, of Missouri, got another very choice boar in No. 10. It was an even sale from start to finish and was well attended. Col. Harve Duncan cried the sale and did excellent work. Below we list the entire offering:

10. S. U. Peace, Princeton, Mo....$ 62.50
16. D. H. Jacobson, Gilbert Station, Iowa 109.00
20. M. G. Arnold, Strawberry Point, Iowa 55.00
11. Henry Renschel, Coatsburg, Ill. 48.00
3. J. T. Hollingshead, Russell, Ia. 41.00
4. E. A. Van Benthuysen, Promise City, Iowa 47.50
8. J. S. Doer, Aledo, Ill..... 28.00
7. W. H. Benthuysen, Bussey, Ia. 35.00
5. A. E. Scott, Russell, Iowa.... 35.00
19. J. H. Cope, Carlisle, Iowa.... 37.00
6. A. L. Davidson, Corydon, Ia... 41.00
3. D. R. Baker, Oakley, Iowa.. 35.00
44. C. W. Prim, Lucas, Iowa.... 52.50
36. L. W. Lugar, Derby, Iowa .. 42.50
31. W. S. Ivy, Leroy, Iowa..... 37.50
52. A. C. Dixon, Russell, Iowa... 28.00
40. G. S. Culver, Chariton, Iowa. 25.00
32. Casteele Farm Co., Princeton, Mo. 28.00
30. E. S. Anderson, Chariton, Ia. 28.00
60. W. E. Giltner, Albia, Iowa.... 53.00
38. W. E. Giltner 46.00
59. J. M. Nesbitt, Aledo, Ill..... 52.50
47. Jno. B. Lawson, Clarinda, Ia. 38.00
51. Geo. Blanchard, Russell, Iowa 35.00
25. C. W. Montgomery, Promise City, Iowa 29.00
39. J. T. Hollingshead 30.00
29. Adam Scholl, Murray, Iowa 38.00
55. J. T. Hollingshead 34.00
35. J. W. Montgomery 34.00
34. J. T. Hollingshead 35.00
42. J. T. Hollingshead 36.00
48. W. E. Giltner 38.00

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The yield this year will be the largest in the history of the state.

There are millions of acres of ideal wheat lands, irrigated and non-irrigated, awaiting enterprising farmers. This land can be bought for a third of the price asked for Middle West and Eastern land and yields double.

Montana not only leads in quantity but also in quality of grain produced. At the recent New York Land Show, Montana farmers won the prize cups for best Wheat, Oats, Barley and Alfalfa grown in the United States.

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27. J. L. Randall, Chariton, Iowa 30.00
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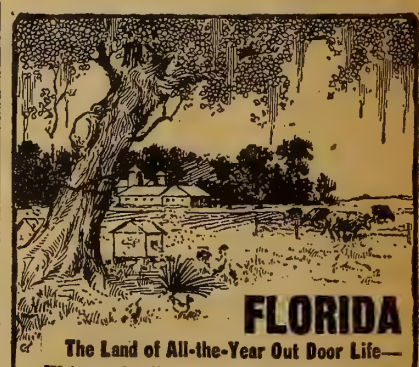
13. W. E. Giltner 42.00
12. W. E. Giltner 33.00
18. O. G. Davidson, Corydon, Ia. 33.00
2. O. G. Davidson 34.00
17. E. A. Wishart, Chariton, Iowa 30.00
21. A. E. Scott, Russell, Iowa.... 28.00
3. C. A. Samuelson 24.00
39. J. T. Hollingshead 30.00

C. B. Powers' Poland China Sale.

The sale of Poland Chinas held by C. B. Powers, Aurora, Neb., on November 12th was well attended and a very successful sale was made. The offering was a good one, although a lot of young stuff was sold. Several May litters were included and one of two June litters were offered. There were forty-four head sold and they brought an average price of $35.34 per head. The March stuff averaged right at $50 per head. The top of the sale was $75 and E. C. Forest, Miles, Iowa, paid this price for a gilt, Lot 8 of the catalog. S. A. Nelson & Sons, Malcolm, Neb., were the best buyers of the sale and took eight head. Thos. F. Miller, York, Neb., and John O'Connell, Malcolm, Neb., were the buyers or the competition on good gilts. Mr. Powers is to be complimented on the offering he put up and the good average is sufficient to show that his hogs were appreciated. Those selling for $30 or more are listed:

1. Amos Yarno, Central City, Neb.$40.00
2. J. W. Gregory, Ord, Neb..... 60.00
3. A. B. Ash, Broken Bow, Neb... 57.50
4. John Hilligas, Hampton, Neb. 61.00
5. J. W. Hilligas, Hampton, Neb. 41.00
6. John Hagey, Aurora, Neb..... 34.00
7. Isaac Lampshire, Hampton, Neb. 33.00
8. E. C. Forest, Miles, Iowa..... 75.00
9. S. A. Nelson & Sons, Malcolm, Neb. 41.00
10. S. A. Nelson & Sons 33.00
11. Jno. Jacobson, Aurora, Neb... 41.00
12. S. A. Nelson & Sons 70.00
14. Jno. George, Hampton, Neb... 33.00
17. S. A. Nelson & Sons 35.00
18. S. A. Nelson & Sons 31.00
25. N. E. Swedeburg, Hampton, Neb. 34.00
27. S. A. Nelson & Sons 52.50
28. Thos. T. Miller, York, Neb. ... 50.00
29. Jno. O'Connell, Malcolm, Neb. 40.00
30. Jno. O'Connell 42.50
31. J. W. Gregory 37.50



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Mention The Homestead when writing.

32. J. W. Gregory 32.50
43. Ira Busch, Hampton, Neb.... 57.50
44. C. C. Springer, Aurora, Neb... 31.00
45. W. W. Snyder, Broken Bow, Neb. 31.00

J. R. Blackburn's Duroc Sale.

One of the nicest little offerings of Duroc Jersey boars, and about as little appreciated as any of the season, was the offering put up by J. R. Blackburn, Ord, Neb., on November 5th. The crowd was somewhere else sale day, certainly not at the sale. It looked as though a half dozen boars would be enough to satisfy all comers but by the judicious efforts of Col. Z. S. Branson, who conducted the sale, the greater part of the offering was sold and at an average of just $25 per head. Those selling above that amount are listed, and also wish to mention that Mr. Blackburn is offering the remainder of his boars at private treaty. The advertisement will be found on another page.

1. E. L. Busch, Syracuse, Neb.....$36
2. S. M. Hinkle, Woodville, Neb.... 39
4. B. F. Danford, Ord, Neb..... 50
8. A. C. Troutman, Palisade, Neb... 35
14. Henry Buss, Columbus, Neb..... 25
25. O. R. Hansen, Ord, Neb..... 25

Isaacs' Duroc Jersey Sale.

In a recent letter from T. H. & J. D. Isaac, Red Oak, Iowa, they say: "We had a good sale and when you consider that we sold sixty-five head of boars at an average of $41.80 and a little better than a $30 average on the twenty gilts, it must be regarded as a good one. The top was $71. Thirteen head averaged above $50, and twenty-four head averaged better than $45, and we got a check for every boar sold. We expect to make a brood sow sale, and we will then have some great sows to offer the boys."

OPPORTUNITIES NUMEROUS FOR SHORT COURSE MEN.

"You ask me why I came down from Burnett county to take the two years' short course in agriculture here at the University of Wisconsin. Well, I'll tell you. Two years ago I entered the Young People's Grain Growing contest and won a scholarship for the one week's course for young people, with all expenses paid. That's the reason I am here taking the short course now. The more you get, the more you want of this kind of education."

The speaker was a young man of about eighteen years of age, rugged and independent in appearance, and the "man who wanted to know" had picked him out of a crowd about the registration desk, touched him on the shoulder and drawn him aside for a minute's conversation. For let it be remembered, the "man who wanted to know" hailed from an eastern state, where farming is much less popular than it once was, and where the hillsides are dotted with abandoned farmhouses. In this pilgrimage of youthful farmers to the state's agricultural college after the harvest and plowing were done, "the man who wanted to know" thought he saw a reason why the supremacy in dairying, stock raising and pure-bred grain growing has been wrested from the valleys of the Catskills and Adirondacks to the rolling prairies of the north-central West.

"When was this short course of yours established, and how does it work out? I am interested. Let's hear all about it," said the "man who wanted to know," leading his new friend to a seat in the corridor. And soon the stranger became the "man who knew" when he learned:

That the short course of the University of Wisconsin was established by the regents in 1886, with an attendance of nineteen pupils, since which it has grown to be the most popular and serviceable course for the average farm boy of any given at the institution—with an enrollment last year of 431.

That no entrance examinations are required, and that instruction is given by means of lectures, recitations, laboratory practice demonstrations and conferences.

That it takes the farm boy after the fall's work is finished, gives him an opportunity to enter the Agricultural College at the University for the winter and lets him go back to the farm in the spring to begin the season's work.

That this arrangement enables an energetic young man to earn enough during the summer to keep him at the University during the three and one-half months of the course.

That the idea of the short course is to give the largest possible amount of information and training in practical, everyday problems connected with the tilling and the handling of livestock and to give it plainly and in the shortest possible time without undue crowding.

That it thus enables young men from the various parts of the state to associate with each other and meet prominent men from this and other states, who are authorities in agriculture.

That it helps to awaken the young farmer to the many interesting facts and opportunities that lie all about him on the old farm home.

That the course is planned to give the student an inspiration; to remove the drudgery and dread from farm work; and to teach him to look for the best in others and to give the best he has.

That the course fits young men to capably fill positions as farm managers, dairy assistants, herdsmen and feeders, gardeners and fruit raisers, ranch foremen, etc., at good wages—but, better still, it enables them to return to their home farms and help "father and brother" to grow two spears of grain where only one grew before.

Moreover the boy who attends the short course gets an entirely different outlook on life. An earnest effort is made to instill in him the opportunity for country leadership which the modern successful farmer has today.

The college can well point with pride to the record of achievements which the graduates of the short course have made. As members of the legislature, members of the appointive commissions such as the State Board of Public Affairs, State Board of Agriculture and the leaders in many of the agricultural associations of the state the graduates of the earlier years of the short course are now the prominent farmers of the state.

Then and there the "man who wanted to know" decided to learn still more about the course which has made the Wisconsin college of agriculture so popular with large numbers of the farm boys of this state. He attended several of the classes, heard the lectures, saw the demonstrations and sat in a number of the conferences and then intently inquired when the next short course would be given. It may be that when registration begins on Saturday, November 29th, he or some of his farm boys will be in Madison.—[Wisconsin Farmer.

PRICES MUST GO HIGHER.

To the Editor of The Homestead:

The packers are still blaming the farmers for the scarcity of beef. I quit raising cattle because I was losing money. My neighbors all quit for the same reason. Our county has 4,000 less cows and "she stuff" than five years ago, according to county figures. Consumers need not look for cheaper meat until the price goes high enough to induce the men who farm to raise more calves. We have not only had to quit the cattle business on account of lack of profit, but we are losing our sons and young men from the farm because the farm, like the cows, shows little profit for the labor and capital invested. As a farmer and stockman I am pleased to note that our servants in the employ of our state and federal agricultural departments have ceased to send out the old order of highly-colored favorable press articles and are now putting out brass tack facts and calling a spade a spade. The assistant secretary of the department of agriculture recently said: "If the farmers of the country are assured of a fair profit they will raise beef cattle to supply the demand in this country and export large quantities. The farmer is not in the habit of engaging in the raising of any crop on a philanthropy. The reason there has been a falling off in the supply is simply that the farmers cannot afford to raise them at a loss."

Jackson County, Mo. F. K. C.

WHEAT MAY BE SUBSTITUTED.

To the Editor of The Homestead:

Feed promised to be unusually high this winter. The average daily production of the cows is low, as a result of short pasture during the summer. The best a dairyman can hope to do is to pay the feed bill and bring his cows through the winter in good condition.

Many men have corn silage, timothy hay and wheat, but are short on corn. Being cheaper than corn, pound for pound, wheat is the more economical feed. It has about the same feeding value as corn. With these feeds cottonseed meal is the only feed that need be bought. The wheat and cottonseed meal should be mixed in the same proportions as corn and cottonseed meal, three parts chopped wheat to one part cottonseed meal. A cow giving two gallons of milk a day should receive daily about thirty-five pounds of silage, all the hay she will eat and about five and one-half pounds of the grain mixture. The grain in this case is fed at the rate of one pound for each three pounds of milk the cow produces. If cowpea or clover hay is available and there is no silage, the hay will take the place of the silage. A cow will eat between fifteen and twenty pounds of good hay each day.

If corn fodder and timothy or cane hay is the only roughage available the cows should receive all they will eat and the grain in this case should be fed one pound for about every two pounds of milk the cow produces daily.

These two rations meet the conditions on the majority of the dairy farms in southern Missouri. There are some communities, however, where more and better feed is available. We will be glad to help figure out balanced rations for anyone asking for information. Inquirers should give the kinds and prices of feeds available when writing for this information. P. M. Brandt.

Missouri Experiment Station.

Many beekeepers beat tin pans at swarming time because they think it makes the bees settle down; but a contributor to "Bee Culture" says that this practice is merely a relic of a forgotten English law which required the beekeeper to give notice in this way that his bees are swarming and that he was entitled to follow them. If he lost sight of them after giving this warning, the bees became the property of the person on whose land they alighted.—Outlook.

The arrival of 1,906 car loads of live poultry in New York last week establishes a record and indicates an immense stock of poultry throughout the United States, it is declared. The shipments came from almost every state in the Union, particularly from the middle West. An estimate of the receipts of live poultry for 1913 to date is 6,000,000,000 making New York city's poultry bill thus far this year more than $16,000,000.

Exports of American eggs during the fiscal year 1913 reached 21,000,000 dozen, as compared with 143,000 twenty years ago. More than half this total went to Canada.

LANDS AND HOMES

3 Crops Yearly THAT'S what many Southern Farmers are making. Alfalfa yields 4 to 6 crops annually. Other hay crops do proportionately as well. It's the greatest dairy and livestock section of America.

GOOD LAND, $15 an Acre Up

Truck, poultry and fruits of all kinds make big profits. Seven to ten months growing season. Climate very healthful. Learn the facts, ask for "Southern Field" magazine and land lists.

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Valley Lands, in Aitkin County

Land of Clover, Lakes, Rivers, Timber, ideal for the Farmer and Dairyman. Where Drouth is unknown

BUY NOW!

Don't put it off! Prices will be higher in the Spring. Come, see, or write for literature.

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LANDBUYERS Send for list of 24 bargains in Fort Bend Co., Texas. No blizzards. In rainbelt. Healthful. No better land anywhere. $25.00 to $40.00 unimproved. Hiland P. Lockwood, owner, 1118 Union Bank Building, Houston, Texas.

CENTRAL MISSOURI FARMS—Write for descriptive price list of corn, wheat, clover and blue grass farms that will prove profitable and satisfactory for homes and investments. Address HAMILTON & CRENSHAW, Box 3, Fulton, Mo.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

ALL KINDS OF FARMS FOR all kinds of people. Free Catalogues. Hall's Farm Agency, Owego, Tioga County, New York.

MISSOURI FARM LANDS. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

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160 ACRE FARMS IN WESTERN CANADA FREE

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Vacant lands adjacent to Free Homesteads may be purchased and also in the older Districts lands may be bought at reasonable prices.

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W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.
R. A. Garrett, 315 Jackson St., St. Paul, Minn.,
or write Superintendent of Immigration, Ottawa, Canada.

Those seeking reliable and unbiased information regarding any part of

California

its Agricultural, Horticultural and Industrial resources, will be cheerfully supplied with all possible information by this organization, which is maintained only for the purpose of promoting the development of the State. It has nothing for sale and is not connected with any project, realty or otherwise.

Information, Literature and Maps Free.

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STATE LAND SALE IN NEW MEXICO

ON December 8th, 1913, there will be sold at the court house in Deming, New Mexico, 18,000 acres of land. Practically all the land will be sold in tracts of six hundred forty acres. The land is in what is known as the shallow water belt, and irrigation by pumping is being operated successfully on lands in that vicinity. The terms of sale are cash, or ten per cent of the highest bid, the balance divided into thirty equal annual payments, with four per cent interest on all deferred payments. **Robert P. Ervien, Commissioner of Public Lands, Santa Fe, N. Mex.**

BUY FROM OWNERS

I HAVE several improved farms in the famous Red River Valley, close to towns, schools and creameries. Will sell these farms at low price, long time, easy terms. Will furnish all the milch cows and hogs that can be handled on these farms, and let you pay for same from proceeds. Five hundred dollars will handle 160 acres. **Look This Up, Mr. Renter,** also wild lands in Wisconsin and Minnesota.

S. D. WORKS,
405-6 Commerce Bldg., St. Paul, Minnesota.

Story County Farms For Sale

NEAR Ames and convenient to the college, two farms 80 acres each, one of 120 acres, one of 140 acres, one of 180 acres, one of 30 acres, all well located and improved. If interested write me for information, price, etc.
E. H. GRAVES - - AMES, IOWA

A FINE MISSOURI FARM

FOR SALE. 350 acres, lies 7 miles from Paris, the county seat of Monroe county, Missouri. This farm is well improved, all level prairie land, good black soil. This is one of the best stock and grain farms in the county. If interested, write A. M. CURTIS, Paris, Monroe Co., Missouri

FLORIDA

LAND in the proven citrus belt of Orange county gives results to growers. We have the best the state affords. Near Orlando, ideal church, school and social advantages. Write immediately for terms. Secure choice of this large tract. Expert help furnished getting you settled. Address Florida Farms, Dept. 3, 1704 Fisher Bldg., Chicago, Illinois.

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LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

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200 ACRES Wisconsin land in potato belt, 60 cleared, new 10-room house, furnace, barn, silo. $5,000. Hardy & Ryan, Waukesha, Wisconsin.

100 CHOICE farms in the garden spot of Southern Minnesota, where corn is king. Price $60 per acre and up. Prices advancing rapidly. Come now. Free list. The Paffrath-Schmid Company, Springfield, Minnesota.

Iowa Land for Sale 280 acres in Ringgold Co. Fair improvements, orchard, timber, ¾ mile from market, school and church. Address Box 202, Auburn, Neb.

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will put a more delicious *taste* in all your bread, biscuits, cakes and pastry.

Your grocer will refund your money without argument if you are not satisfied that Occident Flour makes *more* and *better bread.*

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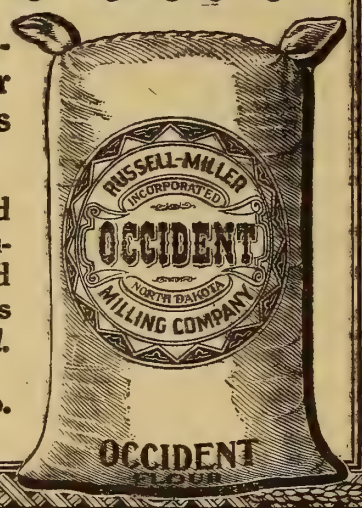

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Rayo Lamps

now light three million American homes—the best evidence of their superiority.

Let your dealer demonstrate and explain. Illustrated booklet free on request.

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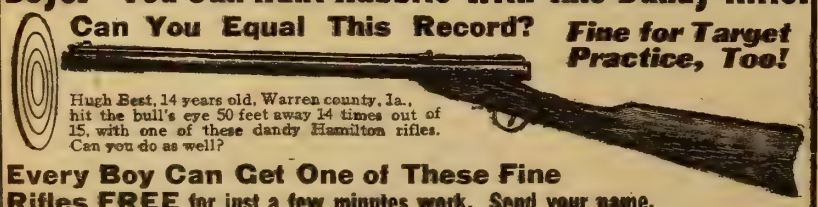
(AN INDIANA CORPORATION)

Boys! You Can Hunt Rabbits With this Dandy Rifle!

Can You Equal This Record?

Fine for Target Practice, Too!



Hugh Best, 14 years old, Warren county, Ia., hit the bull's eye 50 feet away 14 times out of 15, with one of these dandy Hamilton rifles. Can you do as well?

Every Boy Can Get One of These Fine Rifles FREE for just a few minutes work. Send your name.

The first light snow will soon be here and you will want to get out in the woods and follow the tracks of the Rabbit. There's lots of sport in the early winter and right now is the time to get your rifle.

You can do it easy in a short time. Several thousand boys have already received them as presents from me, and what they have done you can do. Don't send any money but just your name and address and I will send full rifle particulars free.

A. M. Piper, 175 Popular Building, Des Moines, Iowa

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

Several years ago there was a wider (and shall I say wiser?) discrimination between clothes for the street and clothes for evening wear than there is today. It was a noted English woman who said that either there are more girls in this country of the wrong kind or else the two classes dress more nearly alike than the women of her own country.

In defense of the present-day abbreviated costumes a young girl held to view a picture of a dame taken three generations ago and asked if the attire of the present day is not preferable. After comparing the latter with the voluminous hoop-skirt that would today find difficulty in passing through an ordinary door, in all honesty I was compelled to say: "Yes, if in a modified form."

It is very evident that the present injudicious apparel worn by young girls is, in a measure, responsible for the great wave of crime that is amounting almost to a tragedy. Conditions have become so bad in some cities that men in plain clothes have been stationed at the worst streets to protect women from insult.

In speaking of this matter, the secretary of the Young People's Civic League, says:

Girls and women nowadays dress very foolishly, and are, themselves, largely responsible for the increased amount of discourtesy they receive. This evil has reached almost the tragic stage, and the exaggerated fashions are the real cause. Some of the girls, who come to me with their stories, tell pitiable tales. I tell all of them to dress plainly, and so conduct themselves that there will be no excuse for men approaching them. If shop girls and office girls were more careful how they dress there would be fewer causes for complaint. If husbands, fathers and employes would not countenance the skirts and dresses which girls and women wear it would not be so hard to correct the evil. Some strenuous effort must be put forth to correct it. There is no doubt that it exists in our community, in two-fold proportions to that of previous years.

No doubt some of our members think of the above advice as did a young girl whose attention was called to it. These are the exact words in which she expressed her views: "I'll just wager that effusion was written by an old maid, with a complexion like a lemon, who pulls her hair straight back and dresses like a—well, like a 'chump.'" Whatever a "chump" may be I will not take the trouble to learn. Far more effective will it be to refer to one who is most certainly not a "chump." This is what Worth, the great designer, says, relative to the matter:

The craze for the new styles is a disease. To old and young, rich and poor, my advice is the same: Choose good and beautiful materials, costly and many, if you are rich enough to afford several frocks, and have suitable opportunities for wearing them; few, but of their kind excellent, should your dress money be limited. Then have them made up simply, but always bearing in mind the requirements of the occasion they are to adorn, and your own individual needs. Be not fashion's slave. To wear what is said to be the "mode" simply because it is said to be, without any inquiry as to its suitability, or becoming qualities, in regard to the individual—that were foolishness indeed. In this lies the secret of thoroughly bad dressing. No woman of refinement dresses to attract indiscriminate attention. Each frock, instead of showing every fugitive craze of the hour, should be beautiful and becoming, and of good material. Then there will be no reason why, possibly with a little alteration, but probably with none at all, the gown, aged two, three or even four years, may not be worn and look admirable. Never use fashions that date a dress. When everybody is wearing balloon sleeves, restrain your own. When skirts are so attentuated that walking is difficult, have an extra breadth in your own. Beauty is suitability; common sense should ever rule the woman who aspires to successful dressing. In all exaggeration there is danger.

This will apply not only to people who wear clothing bearing Mr. Worth's name, but to every girl and woman of every station. There is a young girl who, when younger, chafed restlessly about this dress question. She was permitted to use her own individuality so far as possible, but when it came to a case of positive right or wrong the young lady was required to do the right thing. Not long since she was singing the praises of a young woman of her acquaintance; so enthusiastic did she become that the mother became interested and asked her to be more definite. "Well," returned the daughter, "I hardly know how to begin. First of all, she rates people for what they themselves are worth. She is 'real people' herself, and knows the veneered kind from the genuine article. She is sympathetic; she is unselfish and helps, but never crowds others. She has tact; not a gift, either—she acquired it—and studies how not to wound the feelings of others. She realizes that life is no joke, and yet never permits a gleam of humor to go to waste. And you should see her dressed for the streets! She is a good dresser, right up to date, and yet wears nothing conspicuous. People turn to look at her the second time, but they never laugh and call the 'other fellow's' attention to her." "Do you suppose she would wear soiled white slippers and a low-necked waist to a circus?" demurely asked the mother. "Now, mamma, that was ages ago, and you're not playing fair."

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

The common problem, yours, mine, everyone's,
Is not to fancy what were fair in life,
Provided it coud be—but find first
What may be, then find how to make it fair
Up to our means.
—Browning.

Upon the bleak November hills
A solitary bluebird trills
His latest song—and far along
The russet upland loudly rings
The lay the sturdy woodman sings.

I believe in gittin' as much good outen life as you kin, not that I ever set out to look for happiness; seems like the folks that does never finds it. I jes' do the best I kin where the good Lord put me at, an' it looks like I git a happy feelin' in me all the time.
—Mrs. Wiggs.

It is no use to grumble and complain;
It's just as cheap and easy to rejoice,
When God sorts out the weather and sends rain—
Why rain's my choice.
—James Whitcomb Riley.

HOMESPUN WRINKLES.

Brooms dipped in boiling suds once a week will wear much longer. It makes them tough and pliable.

Mold can be prevented in paste or mucilage by adding a small quantity of carbolic acid. Added to the whitewash, it purifies cellars and dairies.

Old putty can be removed from windows by passing a hot poker slowly over it.

Vinegar, good and sharp and heated hot, will take the paint off glass.

Water standing in the bedroom over night is unfit for drinking purposes. A pitcher of cold water in your room does much to purify the air.

Tar can be removed from cloth by saturating the spot with turpentine and rubbing well.

A bag of charcoal put in the cistern will do much to purify the water.

WAYS OF PREPARING RABBIT.

In the absence of game in many of our localities, the lowly rabbit is not to be despised. When properly prepared the flesh of the rabbit will compare favorably with that of the much favored hare. Rabbits caught in traps and mercifully killed with as little mangling as possible, are not to be compared with the ones that are badly shot. The following recipes are tested and will be found to be thoroughly reliable.

Fried Rabbit.—This is suitable for young rabbit alone. After being carefully dressed, cut the rabbit into small pieces and soak in salt water over night. Roll in flour and fry in hot fat exactly as you fry chicken. Could hardly be distinguished from squirrel.

Stewed With Steamed Dumplings.—Cut the rabbits into pieces and cover with cold water; season with salt, pepper and small cubes of bacon. When the meat is very tender, remove from the liquor; add to the latter one onion, minced fine, pinch of cayenne pepper and a sprig of parsley. Let all simmer fifteen minutes. Remove all bones from the rabbit, and pick the meat into small bits with a fork. Add the liquor, mix well and press into a dish or granite basin. Set in a cool place over night. The liquor forms a stiff

jelly about the meat, and the next day it is ready to serve cold.

Stewed With Steamed Dumplings.—Stew rabbit in water and let simmer until tender. For the dumplings, sift one pint of flour, one-half teaspoon salt, two teaspoons baking powder together four times. Moisten with cream or rich milk, and drop by spoonfuls into the boiling stew. Cover closely, and let cook ten minutes without opening, when they should be done. Pour the gravy over the dumplings, and serve piping hot.

Steamed Fried Rabbit.—This is the best of all ways to prepare an old rabbit. Roll the pieces in flour which contains salt and pepper. Have frying pan very hot and containing one-eighth inch of fat. Place the pieces in this and turn until all sides are a crisp, golden brown. Add one cup water, cover tight and cook slowly until tender. The rich, brown gravy may be poured over the rabbit, or served separately. This is a very toothsome dish. Guineas that have arrived at an uncertain age are very good cooked in this way.

AMONG OURSELVES.

We welcome the views of an Iowa girl on the dress question:

I think "Miss E. P." has stated the facts clearly, and more than that—correctly. The girl that takes is the one that has the latest "do" on her hair; it does not have to always be becoming either. Her skirt is always the latest thing out, no matter if it is so tight she cannot walk decently, she must be in style, or she is not a success socially. Ten to one she is not a success when it comes to building a home that is a home in every sense of the word—a home that will hold the children there until they are ready for homes of their own—a home that will hold the husband until death calls him to that other home where partings never come. The social butterfly is not satisfied herself, and does not make her husband satisfied, and so, after a few years, another divorce is asked for, and granted. There are girls left unasked and neglected by society people, who could, and would, make lovely homes. I could write pages and not say half that could be said, so I will quit now.

That there are worthy girls who are excluded from society I am willing to admit; that it is because of their clothes is a mistake. It is from envy, pure and simple. To be popular, a girl must win through her personality. Cheerfulness, the ability to be happy, the knack of making others happy, are not always divine gifts, but they may be acquired.

The dearest thing on this earth is a wholesome, sweet-tempered girl, whose lovableness is irresistible. To meet her is a tonic. She imparts her courage to others, and inspires the downcast. She belongs not to the classes, neither to the masses, but to the people. This kind of girl can "beat the time" of any painted, mincing fashion plate in the universe. The "society" people know this, and often plan to keep so dangerous a rival in the background. Then, too, all too many people take themselves and the world too seriously. Dressing sensibly does not mean to dress like a dowdy, pinching the lips together in self-righteousness, and being a prude. Any woman who neglects her personal appearance makes the worst mistake possible. She should dress right up to the minute, but avoid exaggeration. Buy the best and most appropriate clothes the money will purchase, don them for the right occasion, and forget all about it.

"A Friend" sends some words of cheer to "Mrs. Lonesome:"

I feel moved to speak a few words of consolation to "Mrs. Lonesome," for I, too, am the wife of a breeder, not only of hogs, but horses as well, and I have too often felt just as she does. My husband would talk horses until I sometimes thought he must be horse crazy. After brooding over my imaginary troubles a long time, I finally wrote my sister and told her all about it. For the benefit of "Mrs. Lonsome" and perhaps others I give her reply. It read as follows: "Dear Sister:—I was astonished at the contents of your letter. You think you have trouble, where, in fact, you have none. Do not brood over it any longer; think of my situation. My husband has an eye for fancy women, while yours has an eye for fancy horses. Now, wouldn't you rather be in your own shoes than mine? Think of the agony I must endure. I cannot go out and work for my four little ones, and I cannot bear to give them up. My husband spends every cent, above the actual living expenses, on fast women." "Mrs. Lonesome," I hope you will derive as much benefit from the lesson my sister gave as I did. Thank God that your husband takes a fancy to fine stock; try to take an interest in it too. Do not put it off too long, either, and I am reasonably sure that modern house will be forthcoming. Cheer up, and all will yet be well.

Dear friends, do try to remember, that if your husbands are neglectful, it is not because of the fact that they raise good stock, but in spite of it. It takes brains to mate and produce a nearly perfect animal; anyone who can do this is just as truly an artist as if he produced an indifferent animal on canvas, and let me tell you, the former will bring in the proceeds to build the new house in a much shorter time. It is this raising our work above the common level that is raising farmers on a plane equally with people in any and all walks of life. In the above letter, there was a picture of a drove of the horses in question; big, handsome Percherons, they were, the kind that you want to put your arms around their necks, and make friends and chums of.

Tacitus Hussey, Iowa, sends us a half-serious, half-comical poem, entitled, "The 'Lucy Gray' of Iowa:"

Mayhap you have seen 'Liza Green,
The widow's joy and pride;
Who helped her mother washing days,
And other days, beside.

Oft have I seen the sturdy lass,
Who had no time to roam,
With heavy basket on her head,
Taking the washing home.

Her days were ever busy ones—
Her retiring hour was ten,
And she rose at ten, precisely,
To the music of "Big Ben."

She never grumbled at her food
With discontented sigh;
But ate her mush and liver fried,
With pious upturned eye!

She was not at all hilarious,
Nor did she sing and shout;
But chortled softly to herself,
When she hung the washing out.

A beauty unadorned was she,
To grace that lonely spot;
The fairest that ever bloomed
Within a lonely cot.

Oh, would there were more 'Liza Greens
In this, our Hawkeye land,
To upraise mother's weary head,
And lend a helping hand!

And, Oh! sad thought! When mother drifts
To that happy unknown port,
Brave 'Liza may in due time have
A husband to support!

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 8. Joshua 1:19, Nov. 23, 1913

JOSHUA, THE NEW LEADER.

The generation of the Exodus was dead, but the incalculable gains of its travail in the wilderness were transmitted to the new generation, which stood on the threshold of Canaan. They received as a legacy an ethical code, a ritual, a theocratic government, and the story of the wonders God did in the wilderness. But the time when Israel was to be chiefly receptive was passed. With the spoils of twenty generations, the nation was on the point of projecting itself into a new arena. "Conquest!" was the keynote now. In this emergent situation the call was for a great, determined, tactful, inspirational leader. Joshua was Jehovah's savior for his people. Good blood coursed his veins. He had drunk the bitter cup of servitude. He saw the plagues and the miracles of the Exodus. He became "Moses' minister." He alone went part way up Sinai with Israel's mediator, and was first to greet him as he descended the mount. He learned the art of war. He had already conquered the whole territory east of the Jordan, and installed the two tribes and the half tribe in their possessions. Thus it was no novice who was stepping to the fore in this crisis hour. With quiet dignity and consciousness of his personal resources, Joshua took up the reins of government as the natural successor of Moses. His very first move proves him experienced commander. He seeks a full quota of troops, and makes an appeal for fraternal assistance to the two tribes and the half tribe, asking them to redeem their pledge to help the other tribes conquer the remaining territory. Next he turns his attention to the commissariat. He sends officers through the camp with orders to "prepare victuals." Next he sends the spies to Jericho, which he recognizes as the Gibraltar of Canaan. The divine address to the new leader has been aptly called an enlivening exhortation. The formal announcement of Moses' death is suggestive that a new type of leader is required. Jehovah orders the crossing of the Jordan and the invasion of Canaan. Comforting assurances of success are mingled with the general orders. The boundaries of the territory to be conquered are defined. The

It is No Disgrace Not to Know Good Form or Etiquette

Thousands do not know: in cities as well as in the country. Most of us have not the time to learn: others have not had the chance.

That is why over 23,000 girls and women—men, too: hundreds of them—wrote last year to the "Good Manners and Good Form" editor of *The Ladies' Home Journal* and asked what, and how and when.

And they found out. For this editor knows: none better. She is a woman born and bred in the circles that know good manners and good form for every occasion: that *must* know: and she is not only glad to tell those who do not know, but she has the gift to tell what she knows clearly and to the point. And every year she tells thousands of folks: not in print, but by mail, in direct, specific and personal letters.

This etiquette department is one of the most popular and sought-after divisions of the personal service that *The Ladies' Home Journal* gives its readers. For twenty years it has been going on, until it is safe to say there is not a question of etiquette that it has not answered a hundred times. Nevertheless, it will answer you or any reader of the magazine. Glad to do it, too. And without any charge except a postage-stamp. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring you a copy.

A year's subscription to *The Ladies' Home Journal*, by mail, costs $1.50, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

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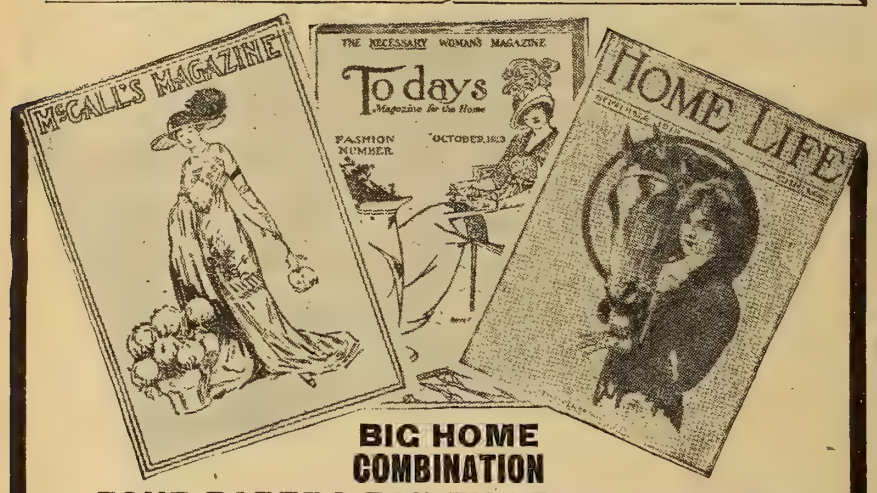

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If you will mail your order during the month of November I will send you The Homestead three years, Home Life, McCall's and Today's magazines each one year for the regular subscription price of The Homestead alone. Read about these four papers.

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The leading live stock and farm journal of the West. Its editorial advice and the experience of its large corps of contributors are written with the especial purpose of adaptation to the needs of the readers. It takes up in detail every feature of live stock raising, general farming, dairying, poultry growing, etc.

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McCall's Magazine contains from 80 to 124 pages each month and is one of the greatest Woman's Fashion Journals in America. It contains special articles on dressmaking, millinery, fancy work, home decorations and household management. It illustrates 50 to 60 fashion designs every month, some in colors, besides containing numerous other attractive features which make this a favorite magazine in over one million homes.

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THIS IS MY OFFER

Send me only $1.50 for three full years' subscription to The Homestead and I will send you, without additional char., McCall's, Today's and Home Life, each one for a full year. Remember, the offer is good only till December 1, 1913. We cannot supply you with the combination after that date. Wrap a fifty-cent piece in a one-dollar bill, attach it to the coupon below and mail it to me at once, at my risk. Do this now, before you forget it.

JAMES M. PIERCE, **Publisher The Homestead, Des Moines, Iowa**

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divine constancy to Moses is cited as a pledge of similar constancy to Joshua. Only he is to be strong and courageous. These are not vague terms. It is not strength and firmness in general Joshua is to have, but strength in the hands and firmness in the knees. He is to be strong to grasp and firm-kneed to withstand hostile assault. And the source of strength is found in the Scriptures. It is to be Joshua's meditation day and night. It being the man of his counsel, he will have good success. He is not to be dismayed, for the constancy of the Divine Presence is assured.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

4650 Ladies' House Dress.—The dress we illustrate is one of the simplest to design. It has Gibson tucks at the shoulders in both front and back and these extend all the way to the waist. The closing is at one side of the waist. The sleeves are the plainest of leg o' mutton shape and full length.

The pattern 4650 is cut in sizes 32 to 42 inches bust measure. Medium size requires 11¾ yards of 24-inch material. Price of pattern ten cents.

6354 Misses' and Small Women's Dress.—A pretty design for a one-piece dress shows the new yoke effect on the blouse and a plain smart skirt. The blouse is tucked at the joining with the yoke front and back. The skirt has an inverted box plait down the front and back stitched about to the knee and left free at the bottom for ease in walking.

The pattern 6354 is cut in sizes 14, 16 and 18 years. Medium size requires 3⅞ yards of 44-inch material. Price of pattern ten cents.

4773 Dolls' Set.—No matter what the season a little girl is sure to be glad to make a new dress for her doll and the set herewith pictured provides for a neat frock and long cape.

The pattern 4773 is cut in sizes for dolls measuring from 14 to 26 inches in length. For an 18-inch doll it requires for the dress ¾ yard of 44-inch material and for the cape ½ yard of 36-inch goods. Price of pattern ten cents.

6343 Ladies' Shirt-Waist. This shirt-waist could easily be made in an hour, the lines are so simple. There is a slight droop to the shoulder and the sleeves fit smoothly into the armhole. Silk, madras or linen can be used for this waist with the collar and cuffs of contrasting material. The long or short sleeves can be used.

The pattern 6343 is cut in sizes 34 to 42 inches bust measure. Medium size requires 1⅝ yards of 44-inch material. Price of pattern ten cents.

4635 Boys' Shirt-Waist Suit.—Every boy needs a shirt-waist suit and here is an excellent pattern for making such a garment. The blouse is made with a back yoke and with a removable collar. The trousers can be made with or without a fly, and with either leg bands or elastics.

The pattern 4635 is cut in sizes 4, 6, 8, 10 and 12 years. Size 8 years requires 2¾ yards of 36-inch material. Price of pattern ten cents.

4784 Girls' Dress.—An excellent model for a school dress is her presented. The garment closes front, buttoning all the way f neck to the hem. The waist i

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Send your name and address and a 2c stamp (it pays part of the postage) and we'll send you **Free** and postpaid this beautifully lithographed and perfect reproduction of the oil painting "Betty," painted especially for us. 1914 calendar is attached.

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We will give you this superb violin absolutely FREE. Wonderful new system. We will teach you by note in your home. Violinists make big money. We guarantee to make you a player or no charge. Complete outfit FREE. Write to SLINGERLAND'S School of Music, Dept. 44. Auditorium Building. Chicago, Ill.

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popular Gibson type and the skirt is the favorite kilted model so much in demand for the small girl. Linen, percale or chambray can be used for this dress.

The pattern 4784 is cut in sizes 6, 8, 10 and 12 years. Medium size requires 3¼ yards of 36-inch material. Price of pattern ten cents.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 56, Box 21, Philo, Illinois.

REPORT OF AUTUMN LEAF CONTEST.

Fifty bright-eyed folks hunted for autumn leaves and sent the prettiest to Aunt Mary. Some of them were very beautiful; some not so pretty were neatly arranged; all in all, you did very nicely.

It was hard to decide on one out of fifty, so we are awarding three prizes, and a lot of honorable mentions. The promised book goes to Harry Jackson, age 13, Illinois. His leaves were sassafras, soft maple and black oak. A silver badge is sent to "Princess Pine," age 11, Nebraska. Her leaves were sumac, Virginia creeper and wild grape. A silver badge is also sent to Mabel Nygaard, age 12, Nebraska. Her leaves were plum, wild rose and gooseberry.

Honorable mention (and a pansy badge) is given to each of the following: Alma Miller, Bernice Merle Shurtleff, Bernice Wood, Brownie, Bruce Bridwell, Cecil Yearous, Della Reutter, Ellen Anderson, Frances Wright, Hazel French, Hazel Wright, Herbert H. Callaway, Ida Rohlfing, James Francis Egan, Jennie M. Lundin, Katie Noyes, Lena Leigh, Lottie Young, Marion Jensen, Martha Harr, Mary Robison, Maude E. Belgard, Negah, Ruby Dunlap, Ruth Leigh, Ted Park.

"There is one thing which I often think of as I gaze at the autumn leaves," writes Adie Blondheim. "The red hue means purity of our hearts; the yellow or gold is for wealth; and the brown is for the health that shines on our hands and faces."

Auntie loves to think of trees and shrubs as God's children, and whether dressed in green or gold and red, with flowers or fruits or nuts, they daily repeat the message "God is Love."

Report of the Spell Down.

Three hundred young people wrote the list of misspelled words in what they hoped was the correct spelling, and sent them to Aunt Mary. Three hundred young people hope to win the game "Roodles." But, alas, only three sent perfect lists, and two hundred and ninety-seven must be disappointed. However, it did you good to try, and as Sarah Myers says, "It will be a benefit to learn to spell them, even if I do not get the game, and thank you for calling our attention to them."

As there are three whole lists that are perfect, we shall give games to all three; Carl Johnson, age 10, Kansas; Maybelle Fann, age 9, Wisconsin; and Eunice B. Ling, age 11, Iowa.

The correct spelling of the words follows: August, aunt, across, almost, believed, because, buggy, believe, before, Christmas, converts, didn't, ditch, died, horizon, heard, having, enjoyed, laid, medicine, ninth, ninety, o'clock, received, remember, recess, Shetland, since, stopped, succeeded, study, their, very, worthless, whose.

Ever so many forgot to give Shetland a capital letter. Worthless proved a stumbling block to many. Since and converts were called sense and comforts as often as not, and so on. This was a pretty hard test, as there was no way of telling what the words were intended to be, excepting by guessing.

However, Aunt Mary is glad to hear from so many, and to note your interest in spelling, which is a very important study.

STORING OF WINTER VEGETABLES.

To the Editor of The Homestead:

The storing of winter vegetables is economical and desirable. In the fall enough vegetables go to waste from the average farm garden to supply the table during the entire winter. The task of storing is not difficult if one has a knowledge of the conditions best suited to storage and is willing to perform a small amount of labor.

A dry, well-aired, not too dark, frost-proof room, cellar or sod house will serve the purpose. The most favorable temperature is not over 50 degrees F. Celery, cabbage and sweet potatoes should be stored in the coolest part of the room. Racks should be adjusted on which to place the storage boxes or barrels. This avoids the dangers of overheating, excess moisture and prevents decay. All vegetables should be gathered before the frost, sorted, dried thoroughly before packing. For long storing reserve those of most perfect formation and firm texture. Each root or tuber should be placed a few inches apart in alternate layers with clean, dry sand. In removing those for use, care should be taken each time to recover any that may be exposed. The earth for packing should be clean and dry, and should be collected in dry summer season rather than after the heavy fall rains. Carrots, sweet potatoes, beets, turnips, parsnips, cabbage, salsify, celery keep well stored by this method.

Vegetables less perfect in form, less firm in texture should be reserved for immediate use. These may be stored in barrels or boxes with latticed bottoms.

Sweet potatoes should be well dried, wrapped in paper, packed in sand as indicated, and kept in coldest part of store room. Celery should be taken from ground on a clear day, transferred to boxes of clean dry sand. The tops and leaf portions should not be covered, but the bleached part should be well packed in the sand and placed in the coldest part of the storage room. Cabbage and cauliflower will keep for a long time if gathered and stored with the head and roots intact. The large outside leaves should be removed. Each head should be surrounded with clean dry straw and placed downward a few inches apart. Pack and store the same as celery.

If desired, parsnips and salsify may be allowed to remain in the ground all winter. They should be covered in the fall with clean straw. After the early spring thaw they may be removed, washed and stored in a cool place.

Parsley and water cress may be transplanted to flower pots or boxes and kept in good growing condition throughout the winter.

Tomatoes may be stored very late in the fall if the entire vine is carefully pulled up and hung over racks in the coolest part of the frost-proof room or the fruit may be picked from the vines and placed on racks several inches apart. By these methods a large portion of the green tomatoes will ripen and keep indefinitely.

If a frost-proof storage place is not available, the trench method is satisfactory for storing cabbage, turnips, carrots, parsnips, salsify, beets, etc. A well-drained location should be selected and the trench should be about seven feet deep. Clean straw should be filled in to the depth of about one foot. The trench may be divided in sections for each variety of vegetables. The cabbage should be arranged as previously mentioned. In filling the trench the earth should be firmly packed and well heaped. Two boards nailed together lengthwise to form a sloping roof should be placed over the top to shed rain and snow. Vegetables stored in a trench may freeze in a severe winter, and remain frozen until the spring thaw. The gradual extraction of the frost leaves the vegetable uninjured, but a sudden thaw will greatly impair the texture and flavor.

The cost of vegetables grown out of season in greenhouses and available in all markets during the winter and early spring months is so high as almost to prohibit their use by the people of moderate means, except as a luxury. Therefore, if more attention were paid in each home to the storage of a generous supply of winter vegetables the daily meals would be more easily planned, the daily diet be made more wholesome and one of the problems in the high cost of food supply would be practically overcome.

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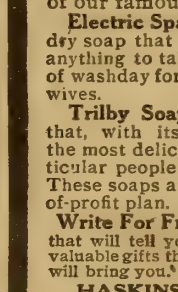

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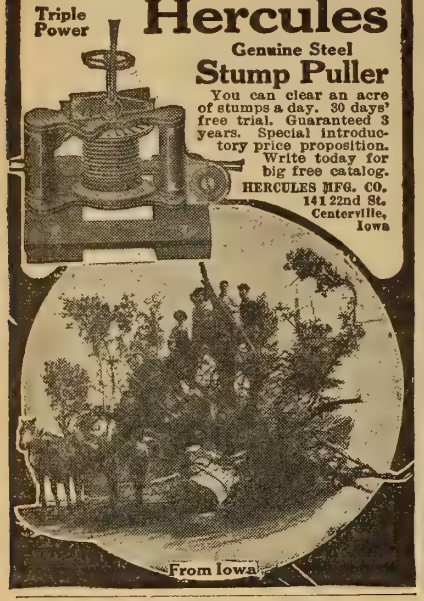

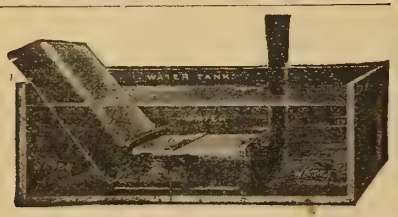

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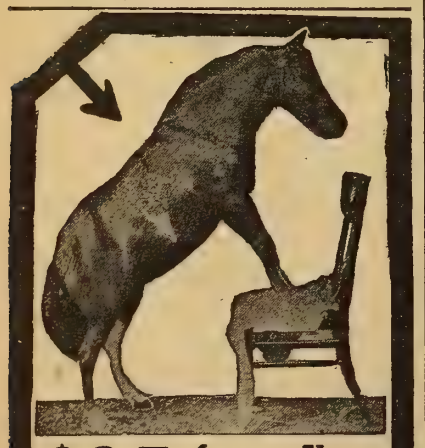

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OUR SHEEP DEPARTMENT

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

TODAY'S SHEEP PROBLEM

To the Editor of The Homestead:

Some farmers in my own neighborhood, scared half to death over the tariff changes, have already sold their sheep and gone into poultry keeping or dairying a little heavier. They feel that the bottom has fallen out of things and that they never can make anything any more with sheep. For myself, I think these men are more scared than hurt. We do not know yet what will be the effect of the reduction in tariff. So far little result is apparent in the quotations for wool. Seems to me it would be a good plan at least to wait for further developments.

The thing to do, where a farmer does not feel that he ought to go out of the sheep business, as I look at it, is to work hard for better and larger sheep. Sheep meat is now very popular in this country. There is no finer flavored meat in the world than mutton. Other kinds of meat being so high in price, the natural tendency with mutton will be to go up with the rest. And large, rangy sheep and big lambs will be in demand always. Leaving out of the question the matter of wool, then, we ought to strike for better sheep.

There are some breeds which run naturally to good size. These are the ones which will be most in favor. Take the Shropshires, the Hampshires, the Oxfords, the Lincolns, the Cotswolds or the Cheviots, all of which are inclined to grow to good size, and one will make no mistake in feeding and breeding for meat. These sheep all produce lambs freely and the lambs are as thrifty and fast to grow as are the old sheep, soon coming to marketable size. Most of these sheep, too, may be classed as twin-bearing, another point in their favor.

It may also be said for these sheep that they produce heavily of wool. By the right kind of breeding, choosing rams that are of a good wool-bearing strain, we may, in a little while, get about us sheep that will clip a good deal heavier fleece than the sheep we had in the beginning. This, added to the product of the meat, will, as it appears to me, tend to bring and to keep sheep well at the front always.

We have not done as well by sheep in this country as we might in the past. We have looked upon them as a kind of secondary matter in the farm economy. For that reason we have not realized as much from them as we should. I believe the tariff changes and the resulting better care and treatment the sheep which are kept on the farms of the nation will receive will result in making sheep more profitable than ever in the past.

Why should not we in this great country, with our excellent grazing facilities and our big farms to produce feed of every needed kind, be able to hold our own with any nation in the world? I am sure we can, and I believe we will. Sheep are fine animals to have on the farm. They need as little care as any we have. What we get from them ought to be practically clear gain, especially where they are kept in connection with other farm operations. E. L. V.

GRADING OF SHEEP ESSENTIAL TO SUCCESS.

To make the best gains, sheep, when brought into winter quarters, should be separated into several different flocks. The breeding ewes should be kept separate from the lambs, rams and the feeding flock. Weak, thin ewes should be separately yarded so that they may get their share of the feed. Rams should be kept in lots of ample size so as to allow them plenty of exercise.

By taking these precautions and regularly providing the flocks with suitable feed and an abundance of fresh water and by sheltering them in clean, well ventilated quarters, success in sheep husbandry is assured, according to Frank Kleinheinz, shepherd of the Wisconsin Experiment Station flocks.

The choice of feed depends, to a large extent, upon the condition in which the breeding flocks enter winter quarters. If in good flesh and having access to good roughage, such as clover, millet, alfalfa hay and roots or corn silage, hardly any grain is necessary, but if the sheep are in a thin, weak condition, no time should be lost in supplying them with hearty grain rations. Otherwise results at lambing time will be disappointing. Pure water shoud be supplied the flock at all times, and salt should be kept where the sheep may have ready access to it. Successful flockmasters consider it a serious mistake to provide their sheep with salt but occasionally, for under these conditions they are apt to eat too much, which oftentimes causes excessive drinking of water and a derangement of the digestive organs.

SHEEP.

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I AM offering thirty choice rams for sale. Twenty-four yearlings, five two year olds and one five year old, bred by Henry L. Wardwell. Prices $25.00 to $50.00. Address

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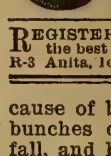

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Echoes From a Kansas Farm

BY HENRY HATCH

It has been trying to storm for the past three weeks, but each disturbance has resulted only in a skiff of snow or a sprinkle of rain. The wind is blowing cold from the northwest this morning and the skies have cleared, so perhaps the weather's system has at last been purged.

There is not a great deal left to be done on the average Kansas farm, except a few days of manure hauling, and some have finished this. A great deal of help will be idle this winter, but the rush will be on again as spring draws near.

A few have become discouraged and are selling out to quit farming, but where the most of these are going to find employment that is more profitable is more than we can tell. Probably they do not know themselves. They haven't made anything at farming this year, consequently are going to quit, whether or no.

The local merchants complain that their credit trade is increasing. They say, too often, when a man wants credit he comes to his local merchant, but when he has the cash he sends to a mail order house. This certainly is not right.

Too many of the local merchants make no distinction between credit and cash business. This makes the cash buyer feel that he is paying a high price because of a heavy credit trade. Now and then a merchant is found who gives 5 per cent off at the time of purchase for cash. This makes the cash purchaser feel better, and even the credit customer could afford to take advantage of this discount by borrowing at the bank and paying his store bills in cash, as the average farmer can usually settle at the bank before the cost of the money has reached 5 per cent.

There has already been considerable land plowed that will be planted to corn in the spring. Going on the theory that one extreme follows another, there are many who expect next spring to be a wet one, so they are preparing for it by plowing as much as possible this fall. The soil has been in ideal condition for plowing the last month.

A great deal of fencing has been done this fall, to take advantage of the crops which have made a fall growth, such as wheat, rye and alfalfa. We have seen much alfalfa being pastured this fall, by horses, cattle and hogs, and have not yet heard of trouble arising from it.

Pasturing cattle on alfalfa has usually been considered dangerous because of bloat. We have seen several bunches of cattle out on alfalfa this fall, and have heard of no bloat. The risk has been taken because of the scarcity and high price of feed.

Tax-paying time has come again, and, as usual, the price is no less. In some cases the levies are higher. Reducing the taxation is a difficult thing, for we will have the things our taxes buy and the only way to have them is to raise the money to pay for them. There are folks who would have them but who kick on paying the tax necessary to get them. How they would manage is never explained.

The one large item in our tax bill is school expense. It is always the largest levy on the list, or, at least, is so here with us. But who would get along without public schools of present standard? There are those who say our schools are no better than they were twenty-five years ago, when the expense of teacher hire was only half what it is today, but how about the wages paid all other labor? Has not the price of a "hired hand" advanced from $15 to $30 a month, and do not a good many say the hand of today is not as work-brittle as the hand of twenty-five years ago?

We have sown oats on fall-plowed land and on land prepared in the spring with a disk harrow, both strips alongside and of the same quality of soil. Some years the difference has been in favor of the fall plowing and some years in favor of the spring disking. It all seems to depend upon whether the spring is wet or dry. When wet, the fall plowing is best; when dry, the spring disking is best. As one cannot tell beforehand what the weather is to be, he cannot tell which way will turn out best.

The oat acreage will likely be increased in the spring, as every farmer will have a place for some early feed. Seed will come high for those who have not raised their own, but by using a good drill, instead of sowing broadcast, a half bushel to the acre may be saved. This is no guesswork, as we have tried it and know that a bushel and three-quarters of seed sown with a drill will produce the stand that two bushels and a quarter will, sown broadcast.

Insect pollenization is the only sure method of pollenizing fruit trees. It may be partially done by the wind, but insects are the surest, and honey bees are the only insects that can be produced in sufficient numbers so early in the season. Also bees are the most thorough, causing the largest yields of fruit. Also the fact of their being rapid in their work, the pollenizing is done in a very short time, allowing the tree to pass on to the next stage, so the other insects have but little time to get in their work of damaging the fruit. In fact, fruit trees and bees seem to be copartners of each other. The farmer could well afford to keep a few colonies of bees even though they produced no honey at all.—Bee Journal.

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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

KNUCKLING.

I have an iron gray gelding seven years old that has knuckled his ankle on his left hind leg. This happened the 26th of October while he was in the pasture. Have been using turpentine, vinegar and saltpeter on it and keep it bandaged most of the time.

Have a veterinarian apply a plaster of Paris cast, if the skin is not blistered. If you cannot have this done, hand rub the part well three times a day and then put on bandages. Do not use the turpentine and vinegar. If it does not improve and lameness is present, line-firing and blistering should be done by a veterinarian. In old standing cases of knuckling the veterinarian should cut the tendons (tenotomy).

SORE.

A few weeks ago I noticed a small, hard lump on the right front teat of one of my cows. I squeezed it and a small hole opened from which came a yellow oily substance. Each time I milk her I squeeze this lump, but it is apparently no better. The last churning of butter was slightly bitter and I thought some of the oil may have gotten into the milk. The milk flow is not affected. The cow is apparently healthy and five years old.

Swab the sore once daily with tincture of iodine and it should soon heal. Bacteria in the milk vessels probably cause the bitterness of milk. Cleanse and scald utensils more perfectly.

MOONBLINDNESS.

Will you please publish again the recipe for moonblindness in horses?

Periodic ophthalmia (moonblindness) is incurable, but blindness may be retarded by giving a dram of iodine of potash in the drinking water twice daily at times of attacks and continuing for a week or so after the attack has subsided. At the same time keep the eyes covered with a soft cloth to be kept wet with a lotion composed of ten drops of carbolic acid and half a dram each of sulphate of zinc and fluid extract of belladonna leaves in a quart of soft, cold water.

ABNORMAL BREATHING.

Some thirty days ago I noticed a yearling heifer was breathing heavily and upon examination found a slight swelling in throat under jaw bones. Shortly after another heifer showed a round lump just back of point of jaw bone, but did not breathe heavily. Fearing lump jaw, she was disposed of. The lump was loose and perhaps the size of an unhulled walnut. Now three more have appeared with the same symptoms, breathing heavily and one has a small, round lump under point of jaw bone next to windpipe. All seem perfectly well and thrifty otherwise. About every four days they all discharge rather freely at the nose and at that time they breathe quite naturally, by as soon as the discharge stops they begin to breathe heavily again.

Have the tuberculin test applied, as tuberculosis is greatly to be feared as the cause of the symptoms described. If so the animals should be slaughtered under veterinary inspection. If they do not react it may prove that the trouble is due to lung worms. Lumpy jaw is scarcely the cause of the symptoms mentioned. Write us again if necessary after the test has been applied. Meanwhile isolate all affected animals.

SICK PIGS.

My pigs stop eating and lie around until they get very thin. Judging from what I know of it their droppings do not look like cholera. It is yellow in color, not black and some of their bowels run like water and some not. They get almost lifeless. They breathe hard if exerted. Two old sows that were in this condition got over it, but the pigs don't seem to. Have lost four or five. I gave them extract of poke root. They run on a pasture of about sixty acres of clover and blue grass and have been fed shorts and stock food in swill all summer, also have corn and plenty of water. On opening two of the pigs I found the liver a little dark colored and the lungs looked like they might have caught a severe cold, but they sleep in the hog house on a floor. There is no cholera near me. What do you think the trouble is?

We cannot decide what is the matter and you should at once employ an experienced graduate veterinarian to make an investigation. Cholera takes various forms and some of the symptoms you mention strongly suggest that disease. Until you can have the examination made feed light slop, without corn, and give the hogs a new pasture and be sure that all feed given comes from clean slop barrels and troughs. Stop feeding salt. It is a mistake to give such treatment right along. A pound or so of salt to each hundred pounds of feed used in slop is sufficient. Allow free access to wood ashes, charcoal and slacked lime.

The labor and money spent on the Panama Canal might have been used to better purpose on the highways of this country, Oliver Wilson, of Illinois, master of the National Grange, told the delegates to the national convention of the Patrons of Husbandry in his annual report. "The building of the Panama Canal is a national project of which all Americans are proud, yet the same amount of labor and money spent on our highways at home would create benefits nearer and probably more important to our own people," he said. Mr. Wilson said the federal government almost ignored the question of transportation between the country home and the railroad and the farm and the business center, except to give advice on road construction.

Figures collected by the Department of Commerce show that the exports of beef and beef cattle have fallen from $44,000,000 value in the eight months ended August, 1904, to practically $1,000,000 in the corresponding months of 1913, and that imports of cattle meantime increased from 9,357 in the eight months of 1904 to 340,105 in the same period of 1913, and their value from from $181,145 in 1904 to $5,031,842 in 1913. As to beef, the importations in 1904 were insufficient to justify their statement month by month, and the total value of beef imported for consumption in the full fiscal year 1904 was but $14,922, while the single month of July, 1913, showed a total importation of 642,394 pounds, valued at $56,993; August, a total of 1,151,626 pounds, valued at $89,204, and September about an equal amount.

He Thought His Hogs Were Dying From Cholera

He examined a 4 weeks old dead pig and found over a **solid pint of worms.** He had lost other young pigs in the same way and thought they were dying of Cholera! He began feeding Columbian Stock Powders and afterward said he could pick up worms by the handful most anywhere in the lot. His hogs are all right now. We'll furnish the name of this hog raiser on request.

Perhaps You Think YOUR Hogs Have Cholera, Too

Many hog raisers mistake worms for Cholera—a natural mistake because the symptoms are similiar—loss of appetite, drooping flanks," broken down backs" caused by kidney worms, feverish condition, coughing. Finally they slink off and die. But it's **not** Cholera—it's worms. But when Cholera **does** come it attacks the sickly, worm-infested hogs and kills them **quick.** In fact a good **90% of all hog losses are caused by worms.**

I'll Rid Your Hogs of Worms

You needn't lose a hog from disease nor have a wormy hog if you feed Columbian Stock Powders. Been on the market over 25 years and their merit is **proved.** Used by thousands of the most successful stock raisers. Not a food, but a highly efficient **medicine** that not only **kills** but **expels** all worms. Stimulate digestion, sharpen the appetite and speedily stop all digestive troubles. Say what you will—hogs **must** be kept free from worms, blood in good condition and digestive organs toned up if you hope to escape Cholera. The only **logical** method of preventing disease is by **internal treatment** with Columbian Stock Powders.

BEST FOR BROOD SOWS—Start right. Get strong, healthy litters without weaklings and runts by feeding Columbian Stock Powders to your brood sows. Keeps them free from fever and insures plenty of good pure milk.

Big Free Trial Offer Mail coupon stating how many hogs you have and I'll let you try Columbian Stock Powder 90 days before paying me a cent. Most liberal offer ever made.

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A Method of Better Agricultural Credit.

CALIFORNIA is the first state to take advantage of the studies made by the recent government commission which visited Europe to learn of the methods there which enable farmers to secure loans at low rates.

The Agricultural Credit Corporation has been formed in California which intends to furnish money for irrigation and reclamation projects and for any other use of the farmer. The idea is to furnish the money on real estate mortgages at a lower rate than is now in vogue. An accurate idea of the plans of the corporation will be obtained from the following extracts made from the by-laws:

First. No loans shall be made by this corporation to any director or officer thereof, or near relatives of any such persons, nor to corporations in which any director or officer has any interest.

Second. No loans shall be made to any corporation unless a majority in interest of the stockholders of such corporation indorse and guarantee the same and unless a majority of the board of directors of this corporation shall approve said loan in writing.

Third. No loan shall exceed in amount 60 per cent of the value of the land accepted as security.

Fourth. Every loan made shall be based upon a comprehensive written application sworn to before a notary public and accompanied by a full written report by the local agent in all cases where the application is received through a local agent. In addition, a sworn appraisement of the property offered as security shall be made by two resident landowners of the county wherein the security is located, and the same shall be filed with this corporation.

Fifth. There shall also be prepared and filed with this corporation a full and comprehensive written report upon the financial condition of the applicant and the value and condition of the security offered together with the improvements situated thereon, and the water right, if any, appurtenant thereto or used in connection therewith, which report shall be made by either an officer and director of this corporation or by a specially trained and qualified salaried examiner, and such report shall be made independent of and without reference to the above-mentioned application, agent's report or appraisement.

Sixth. Three letters of inquiry regarding the character of the applicant, the value of the security, and the nature of the water right, if any, shall be sent to disinterested parties residing near the place where the property offered as security is situated.

Seventh. The data obtained from all such sources aforesaid shall be prepared for the information of the executive committee, and no loan shall be made without the written assent of at least three members of the executive committee, and if any member of said executive committee objects to the making of any loan, the application therefor shall be rejected.

According to the laws of the state of California, such a corporation may invest its capital and accumulations in the following securities:

First. In the purchases of, or loans upon interest-bearing bonds of the United States, or those for which the faith and credit of the United States are pledged for the payment of principal and interest.

Second. In the purchase of, or loans upon, interest-bearing bonds of any of the states of the United States not in default for interest on such bonds, including bonds of this state, or those for which the faith and credit of the state of California are pledged for the payment of principal and interest.

Third. In the purchase of, or loans upon, interest-bearing bonds of any of the counties and incorporated cities and towns, and duly organized school districts of any state or territory of the United States not in default for interest on such bonds.

Fourth. In the purchase of, or loans upon, interest-bearing bonds of irrigation districts.

Fifth. In loans secured by mortgage or deed of trust upon unimcumbered real estate, improved or unimproved, or in the purchase of, or loans upon, notes or bonds so secured; provided, that the principal so loaned, or the entire note or bond issue under such principal so loaned, or the entire note or bond issue under such mortgage or deed of trust, shall not exceed 60 per cent of the market value of such real estate with improvements taken as security. No mortgage insurance company shall invest in, hold or own any of the capital stock of any other corporation, nor make any loan, in whole or in part, on the security of the capital stock of any other corporation.

REMOVAL OF QUARANTINE WILL INJURE WISCONSIN INDUSTRY.

Wisconsin potato growers and large dealers in potatoes are up in arms over the fact that efforts are being made at Washington to remove the Quarantine Regulation No. 3, issued September 28, 1912, prohibiting the importation of potatoes from certain foreign countries because they were affected with a disease known as potato wart.

Practically all of the commission merchants in the Atlantic sea coast towns, who deal in potatoes, are urging the secretary of agriculture to withdraw this quarantine. There is also a committee of growers from such foreign countries now on their way to Washington to secure the withdrawal of this quarantine and they insist they are now in a position to convince the secretary that their potatoes are free from such disease.

"As a potato grower in Wisconsin," says one active in potato raising, "I am especially interested in this proposition. We certainly have enough to contend with here now, in the way of bugs, blight and weather conditions, without importing any more trouble, for though a great part of such importations would be used for food, some of them will undoubtedly be planted. Two years ago I know of one solid train load of imported potatoes being shipped as far west as Oklahoma, and though I am not very familiar with the potato disease in question, it does not seem to me that it could be completely eradicated in one season."

"The feeling of the Federal Horticultural Board has been that complete protective measures against the potato wart should be maintained, and that consideration should also be given to the question whether general prevalence of the powdery scab should constitute an additional reason for the maintenance of the quarantine.

It is assumed that few, if any, foreign potatoes will reach Wisconsin other than for special seed purposes, inasmuch as the last government report on the potato crop credits Wisconsin with 30,200,000 bushels of the total crop of 319,000,000 bushels. Nevertheless Wisconsin growers and shippers are greatly concerned for the sake of their potato industry because, indirectly, through trans-shipments anything that is introduced in the eastern states may be expected to find its way to Wisconsin.

An expert says: "From my present acquaintance with potato diseases as they occur in Europe and in the United States, I consider that on account of both black wart and powdery scab, the quarantine conditions according to regulations should be continued as they are at present. It seems to me that there is little reason for thinking that any inspection in the country of origin can guard us against the introduction of such diseases."

At the annual convention of the Wisconsin Potato Growers' Association, to be held November 20th and 21st at Rhinelander, strong protests will be made to the department at Washington against the proposed removal of the quarantine. Such protests are in order. There are plenty of potatoes in this country to supply the demand and prices would not be what they are except for the bullish reports in numerous papers this fall. There is no potato famine in sight and there is no reason why the embargo against foreign potatoes should be lifted and every reason in the world why great precaution should be taken to prevent the importation of potatoes from infected districts. If there is any likelihood of potatoes slipping in past the embargo, then it would seem to us that an embargo should also be placed against Belgium, from which country more potatoes will be shipped this year than are raised there, according to reports.

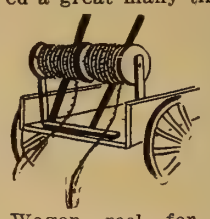
At this time, when Wisconsin is planning to organize the state so that certain tried and true varieties of early and late potatoes may be planted, each variety in a certain section, to give uniformity and make possible car load shipments from a given district, it is highly important that the quarantine prohibiting the importations of potatoes from the British Isles, Germany, Austria, Newfoundland, St. Pierre and Miquelon, should be maintained, even if the lifting of it has been urged by the various important firms and by the boards of agriculture of England, Scotland and Ireland through the usual diplomatic channels. Wisconsin is launching a campaign to completely destroy tuber pests and diseases. Wisconsin is planning to raise pure seed of standard market varieties for all commercial purposes. If this embargo is lifted the heart will almost be taken out of the movement to standardize potato growing in Wisconsin.—[Wisconsin Farmer.

HANDY DEVICES USEFUL IN FENCE MAKING.

A good fence adds several dollars per acre to the value of any farm. Not only are good fences needed along the road, but between every field.

When I was a boy it always fell to my lot to fix the fence and I grew to like the job. During various times in my experience I devised methods or learned of methods which helped out in the work.

One plan in particular that has helped a great many times is the use of a reel at the back end of a wagon box from which two or three wires are placed upon the reel as shown in the accompanying drawing. The ends of the wires are then attached to a post and the team is started. Usually it is necessary to have a brake upon the spools so that the wires will not reel out too rapidly.

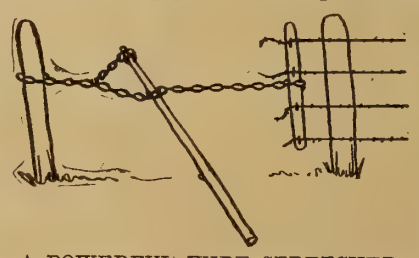


Wagon reel for stringing wire.

The best sort of brake is a piece of gas pipe. Set one end of this against a strip nailed to the bottom of the wagon and hold the edge of the pipe against the reel. This does not wear out so rapidly as a stick of wood. It is not always necessary to use the brake and with a good team one man can handle the job.

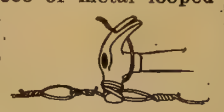
After the wires are laid in place, the next job is to stretch them and staple them to the post. When more than one wire is to be stretched at a time, by far the best method is to go to the end of the string, staple all the wires in their proper positions to a stick of wood, attach a chain to this which runs to a long pole, which in turn is chained to a post. With this pole all of the wires can be stretched at once.

With a long pole a great purchase can be had and there is no better wire stretcher, at least if there is, I have never seen it. As soon as the wire is stretched to the proper tension, an assistant can put in the staples or the lever may be tied to hold the wires taut.



A POWERFUL WIRE STRETCHER.

The best sort of wire splicer I have ever used is a piece of metal looped at the end with a little notch on one side. I have also used a common claw hammer both as a splicer and as a wire stretcher. Quite often, in cases of emergency, I have used this method with good success.

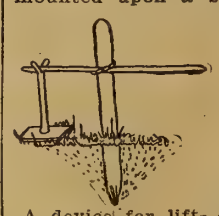


An emergency wire splicer.

Make a large loop in the end of one wire and insert the end of the other wire through this. Wrap this end about the head of the hammer once and then insert it in the claws. Slip the head of the hammer through the loop and turn it, winding the wire about it until the proper tension is secured. Then it is easy to make the splice, using the claws for twisting the one wire around the other.

Once in a while it will be necessary to move a fence. It is a tedious job to dig up posts, but this is not always necessary. If the post is not set too firmly it may be easily lifted with a pry, similar to the one shown in the accompanying drawing.

This pry consists of a pronged stick mounted upon a board. A long pry pole is inserted in the crotch. This pole is run through a chain which is looped loosly over the post. The chain is dropped to a position below the level of the prong and the pole lifted. This will usually start the post and after it is lifted to a position so that the chain is level with the pry, by loosening the pole, the chain will drop back again and the post can be lifted the rest of the distance out of he ground.



A device for lifting posts.

We must all admit that the modern fence is the woven wire fence. If you are planning for a new fence, by all means use woven wire if possible. When putting in woven wire, we usually consider it to be a permanent job and, if permanent, we should certainly have permanent posts.

The corner post should be set in concrete, in fact, it is well to have it made of concrete entirely. If a good heavy timber can be secured, however, it will last almost as long as you need it if set into a concrete base. Dig the hole about eight or ten inches larger on each side than is needed for the post. Set the post in position and fill up the hole with concrete instead of dirt.

In handling this sort of a job use a wagon with low wheels, if possible. If you happen to have one with a wide bed, so must the better. Load into this a barrel of water, a supply of cement, coarse gravel and sand. If the bed is not tight, put a mixing board on the rear end. When you come to a post, mix sufficient concrete for the post, then drive to the next post, and so on. This will save a great deal of time and will be just as effective as if the concrete were mixed on a large mixing board on the ground.

John Y. Beatty.

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these announcements that are now appearing in this publication, from time to time, relating to

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$10.00 buys puts or calls on 10,000 bushels of wheat or corn. No further risk. A movement of 5c from price gives you an opportunity to take $500; 4c, $400; 3c, $300, etc. Write for particulars. Finance Brokerage Company, Desk 8, Finance Bldg., Kansas City, Mo.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, November 15th.—The week's cattle run here is a little less than last week, but unequal distribution has been a demoralizing influence again. Big Wednesday gobs are the rule now paralyzing the market for that day and the rest of the week. Down East conditions are still bad, but western markets have only had moderate supplies, the six points reporting a five-day run of about 166,000 against 178,000 last week and 180,000 a year ago.

Next week will develop an influence adverse to beef in the shape of poultry consumption. Cattle bought next week will reach the beef market at the time poultry is getting action owing to Thanksgiving day. This ought to restrain the marketing impulse as buyers will work the poultry argument to the limit. What the trade needs is a brief application of the rest cure.

At the close this week all of Monday's bloom in the cattle trade has been brushed away and a little more. This is especially so in the case of plain, heavy cattle which are 25c lower than last week while the good heavy kinds show a net loss of about 15c. Compared with the high spot Monday declines range from 15@40c, choice light cattle yearlings and cheap killers in the 1,000 to 1,100-pound class showing least of it. A class of 1,500-pound bullocks worth around $8.85 at the close last week is now on an $8.65 basis, while plain heavy cattle of the same weight, but on the grasser order are selling around $7.75. The 1,000 to 1,200-pound class of grassy steers selling at $7.25@7.50 shows no loss for the week, nor do the prime handyweights or yearlings although both classes are about 15c lower than the high spot Monday. Above the $9 line it is now a market for a few packages of weighty cattle of superlative quality and even then they must not carry too much avordupois, yearlings and choice handyweights. These constitute but a small proportion of the whole; in fact $7.75@8.75 has bought a large slice of the crop this week, while a few prime heavies are reaching $9.25 and best yearlings range up to $9.60.

That big cattle are not all out of feeders' hands yet is evident and after the middle of December they will not be wanted, consequently holders have no great distance to go with them. Owing to feed scarcity in many sections there is a disposition to cull closer than usual, preparatory to going into winter quarters and this is having the effect of swelling the run.

Classes of butcher cows now selling upward from $5.50 are closing largely 15@25c lower than a week ago or 25@40c below Monday, while the plain and medium killers, selling from $5.50 down are holding within 10@15c of late last week, having shared but slightly in the Monday up-turn and canner and cutter classes are close to steady with a week ago. Strong weight heifers have worked into extreme disfavor as the trade has progressed and at the close of a right decent to very good 850@1,000-pound class is having to take $6.00@6.50 that were easily 40@50c higher sellers on the high market of Monday and most of them, as well as the medium and plain light and handyweight stuff and prime heavy grades are 25c lower than a week ago.

That there is relatively good outlet being found for the cheap grades of beef which should tend to hold butcher cattle values for further sharp price recessions is an open secret, but that buyers will use for the immediate future the "poultry season" argument for all it is worth as a club over the market is not to be doubted and generous marketings would serve them well in holding the advantage they have gained on recent sessions. With moderate receipts of the immediate future, however, the selling side stands in a position to have a good deal to say as to the course of the trade, now that range stuff has practically disappeared for this season.

Vealer trade withstood well this week, better than anyone expected, the coming of the "turkey season," but is due to get its bumping next week unless trade forecasts and the course of the market at this period in recent years are wrong guides. Sales early Friday were up close to the week's best level and on a stronger basis than a week ago for choice kinds, while others showed little change from late last week. Supply has been slightly in excess of last week and a little short of a year ago. Bulk of the good vealers now selling at $10.75@11, choice up to $11.25@11.40.

Declines enforced since Monday have carried stock and feeding cattle values to levels 10@25c below last week's closing basis and put the trade back to the extreme low spot struck late in October. Heavy receipts, a generous layover last week, bad snow storms throughout Indiana, Ohio, Pennsylvania and Michigan early in the week which seriously crippled railroad traffic to those sections and kept prospective purchasers at home, together with a glut of Canadian and Southeastern stocker stuff at Lancaster, Pa., combined to seriously depress the market. Choicely bred yearlings have had the best call, but nothing has escaped loss. Plain 650 to 850-pound stockers are selling down to $5.65@6.15 a fair to very good class of 700 to 900-pound weights in fair stocker flesh is going at $6.25@6.65, extra good to choice of like weights and right good flesh at $6.80 @7.10 and a fancy kind at $7.15@7.35. A good many trashy and common light stockers dropped down to $5.00@5.50. Feeders of plain sort sold down to $6.25 and lower while good colored, fair fleshed 900 to 1,100-pound weights are selling at $6.50@6.85 very good feeders with quality and flesh around $7 and a choice to fancy fleshier sort of selected grade go at $7.15@7.50.

An increase of 10,000 hogs at Chicago this week over last and a gain of 40,000 in the aggregate at eleven markets failed to provide killers with sufficient ammunition to successfully bear prices. Eastern shipping demand being of good volume and absorbing a fourth of local receipts, or about 37,000 within five days. Closing prices Friday were 10 to 15c higher on good hogs of butcher and heavy weights, while light stuff, which showed up in profusion, closed on much the same basis as a week ago. The strength shown in the trade makes the forecasting on the future course of the hog market less evasive in tone than one week ago. Doubtless the 40c break early last week, followed by prompt recovery, convinced the country that no bargain sales of prolonged duration are probable.

Unless packers prevent such "come backs" they are likely to make the contest a two-sided affair. Hogs are now on a basis where they can be fed out, and it is improbable that bids of 7c in the country will jar loose any considerable number at any time during the coming winter. The advance this week is convincing refutation of the contention that hogs are not cutting up at a profit, or that fresh meat demand is deficient. Along toward March it seems probable that substantial figures will be written on sale tickets, provided, of course, that the country does not go to the cleaners in a financial sense meanwhile. There is a possibility of tight money and subsidence of industrial activity. Should this accentuate and high cost of feed attract hogs to market prematurely, more bumping may be effected, but with normal conditions, it is very doubtful if many house hogs will be put up below $7. The Friday trade was on the following basis:

Bulk of sales	$7.80@8.05
Mixed, 215 to 250 lbs.	7.70@7.90
Mixed, 170 to 220 lbs.	7.75@7.90
Medium weights	7.90@8.10
Light butchers	7.85@8.05
Heavy butcher	8.00@8.25
Light shippers	7.85@8.00
Heavy shippers	8.00@8.25
Heavy packing	7.65@7.85
Rough heavy packing	7.00@7.65
Throwout packing sows	6.75@7.40
Fair to choice light	7.60@7.90
Light-light, 135 to 155 lbs.	7.20@7.65
Pigs, good to fancy	6.40@7.40
Pigs, inferior to fair	5.25@6.25

Live mutton values shot up like a rocket early this week and then came down the same way. The week-end trade is demoralized and anywhere from 50c to $1 lower than Tuesday, high day of the week, on fat classes, lambs showing the long end of the break. The decline left sheep 25 to 35c lower than a week ago and lambs of medium and heavy class frequently show a 50c break.

When the going was best on the high close of the hot Tuesday session, sellers were successful in hanging up a set of record November quotations on fat lambs and in cashing mature muttons at the highest prices for November since 1906, lambs touching $8.25, yearlings $6.75, ewes $5 and wethers $5.50. The extent of the decline since is indicated by an extreme limit on lambs of $7.50 on Friday, sales of prime ewes and wethers at $4.25 and $5, respectively and an outside quotation of $6.25 for prime light yearlings.

In the light of what has happened the predicting of future events is a dangerous pastime. A few facts, however, that shippers should take into consideration stick out prominently, to wit: Quality is improving, average weight picking up and there is already shown a disposition to discriminate against heavy lambs that will undoubtedly become more marked as the season advances. Hence the marketing of fat lambs or yearlings that are approaching the undesirable weight of eighty-five pounds and up would seem advisable. On the other hand the holding back of stock that is lacking good finish by those in a position to carry the stuff through a period of bad weather appears equally advisable. Demand, particularly during the latter half of next week and the week following will be crippled by the advent of the poultry season, and the first week in December—International week—usually sees a more or less badly congested market. The slump this week, however, is counted upon to check marketings temporarily. As noted last week in these columns a set of choppy markets is ahead with the weather a strong governing factor. The feeder who lets his stuff come when it is fat and not before instead of the one who attempts to pick out a probable high spot on which to unload will probably fare best. Closing quotations follow:

Lambs, good to prime	$7.15@7.50
Lambs, fair to good	6.75@7.15
Lambs, common to fair	6.25@6.75
Lambs, culls and coarse bucks	5.50@6.00
Lambs, fair to best feeders	5.75@6.75
Yearlings, good to ch. handy	5.90@6.25
Yearlings, fair to good heavy	5.15@5.75
Yearlings, feeders	4.75@5.50
Wethers, good to prime	4.75@5.00
Wethers, fair to good	4.50@4.75
Wethers, feeders	4.00@4.60
Ewes, good to choice heavy	4.00@4.25
Ewes, good to choice handy	4.00@4.35
Ewes, medium to good	3.75@4.00
Ewes, culls	2.75@3.50
Ewes, breeding, 1 to 3	4.75@5.25
Ewes, aged, solid mouths	4.25@4.65
Ewes, feeders	3.15@3.75
Bucks, fair to choice	3.50@3.75

THE VALUE OF SHREDDED FODDER.

To the Editor of The Homestead:

For a number of years now the corn husker and shredder has been pretty generally employed in handling the thousands of acres of fodder harvested by the farmers of the middle West. The advantages gained by shredding are many; it has been well demonstrated that the shredded product is an economical food in these busy farming days. First, the same amount of fodder will feed at least one-third further when shredded than when fed from the shock, even though the shock fodder is fed to the best advantage. All the thin parts of the stalks, the leaves and husks, are eaten by the stock and the rest is wasted. Since the long stalks are rather unhandy to feed in the mangers in the stables, many times they are scattered on the ground in the feed lots where the stock run over them while searching for the choicest portions. This necessarily makes the waste greater than if the fodder was fed in the barn. When shredded, however, practically the entire stalk is rendered available for feed and the waste is reduced to the minimum.

Much more of the shredded product can be stored in a given space. Many farmers who do not shred haul to the barn before winter as much of their fodder as they have storage room for, yet only a comparatively small quantity, so great is its bulk, can be thus stored in the average barn. When shredded, a much larger quantity can be put into a small mow. And it is put into the barn in good time and it is fed in the barn. All feeding is done in the dry. There are no cold hands, nor heavy, unwieldy bundles to carry to the stock. For, with whole stalks, the average farmer prefers to feed the wet, snowy fodder in a lot, be the latter muddy or ice-covered, rather than in a barn.

Shredded fodder is much more convenient to feed than the shock fodder. The time and labor saved in feeding shredded fodder about compensates for the time and labor taken in shredding. The shredded article can all be fed in the barn and what little refuse there is, such as the coarser parts of the stalks which are left in the mangers after the edible portions have been picked out, makes a good bedding and absorbent material, and it is ready immediately to go out with the manure for the enrichment of the fields. The stalks being mashed, the pulp is exposed and this readily absorbs all liquid manure, and, as a consequence, all of the refuse works into manure much more quickly than the whole stalks. As a general rule, whole cornstalks are undesirable in the production of manure. They are very unsatisfactory when used for bedding, as they make the handling of the stable manure difficult since they are so slow to decompose. The manure spreader naturally runs harder when the stalks are present in the manure. Even when fed in a field cornstalks are a nuisance for the next crop.

Every farmer who has had any experience in feeding shock fodder through the winter, in all kinds of weather, knows that it is an unpleasant task. The majority of farmers feel amply repaid for the work and expense of shredding by the satisfaction gained in having both fodder and corn taken care of before bad weather and by the increase in value of the feed and manure. On a cold winter day it is worth a great deal to a man to know that his feed is all under shelter, and he does not have to face a cold wind out to a cornfield and haul in a load of fodder that is covered with ice or snow, perhaps. And all the time that the fodder is left out in the field, it is deteriorating in feeding value. Being exposed to the storms of winter, many of the best parts are blown away, and much of the fodder gets down on the ground to rot, so that by spring it is almost worthless for feed. Probably the greatest saving effected by shredding is that of having the fodder stored and packed in the mow so that it does not lose its feeding value or its palatability as when left out in the shock, or even when the whole stalks are stored away in the dry. Corn fodder seems to give up much of its strength when exposed to the air. Shredding prevents this to a large degree by reducing the fodder to a pulp so that it may be packed sufficiently to exclude the air and to retain its original flavor. Shredded fodder can be fed to horses and cows with good results as late as the middle of May. The gain in the increased amount of feed furnished by the shredded article, the reduction of waste to a minimum, and the ease of handling, makes it possible for the farmer to winter more stock from the same acreage of fodder, and at the same time more manure is produced.

A few farmers claim that shredding wastes too much of the corn. In reality, however, there is very little waste, not so much as when the fodder is husked by hand. The shredder takes nubbins and all out of the fodder; with hand husking many nubbins and some of the larger ears of corn remain in the fodder. A portion of these are wasted if the fodder is fed in yards. Then, too, in husking by hand in the field and throwing the corn on the ground, there is more or less waste in the form of shelled corn, while with the shredder all such waste is at the farm where something will get it. A certain amount of shelled corn is needed anyway for chicken feed and for chop feed, so nothing is wasted if the shatterings are gathered up immediately. And if the ears of corn are a little ragged, they can be fed just the same as the corn that is husked clean.

As farmers usually exchange work at shredding time, it is only a small outlay of money to obtain a sufficient amount of help, and many farmers would hire help anyway if the husking was done by hand. It seldom costs much more to get the stalks cut up fine and stored away in the dry, and to get the corn husked, than it does to get the fodder husked in the field and the corn and bundles of fodder hauled to the barn.

For the largest returns from shredding, the work should be done at as early a date as possible after the fodder is sufficiently dry. As a general rule fodder can be shredded in from four to six weeks after cutting, this period varying with the condition of the fodder at the time it was cut, the size of the shocks, the condition of the weather, etc., but, in most cases, it is possible to get the shredding done before winter. Fodder should not be shredded until perfectly dry. If the stalks are wet or contain sap to any extent, heat and molding will probably result, which will spoil the fodder for feed. Besides this, the danger of setting the storage buildings on fire from spontaneous combustion is by no means small. After the shock fodder is properly cured out, however, it is a large waste if shredding is delayed, for the stalks deteriorate quite rapidly in feeding value.

The best place for shredded fodder is in a barn mow. It does not keep well in a stack unless it is topped with something to turn water. Great care should be exercised in storing the shredded product, otherwise the mass may heat and spoil soon after it goes into the mow. It will keep more safely when it is not tramped; the more solid it is packed the more liable it is to heat. It is sometimes necessary to have one or more hands in the mow to distribute it properly, but it should not be tramped. The shredded fodder, being compact, ferments slightly and sweats or cures quite similarly to new-mown hay. It should not be molested in any way, no matter how hot the mass gets, until it has gone through the sweat.

Subscriber.

PATENTS---ADVICE FREE! PATENT LAWYER
C. C. KENNEDY, Waterloo, Iowa

Wanted Two first-class farm hands on irrigated farms. Men used to stock feeding and silos. None but steady and experienced men wanted. Apply, stating wages, to Box 298, Midland, Texas.

Wanted First-class steam plow men. Case engine. Case Battley plows. None but steady and experienced men wanted. Apply, stating wages, to Box 298, Midland, Texas.

DATES FOR LIVESTOCK SALES.

Poland China Swine.

Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheyedan, Iowa.
Jan. 24, Beall & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Iowa.
Feb. 2, Coleman Bros., Ithaca, Neb.
Feb. 3, Theo. Martin, Bellevue, Iowa.
Feb. 3, C. A. Rosenfeld, Kelley, Iowa.
Feb. 4, John Jacobson, Gilbert, Iowa.
Feb. 4, E. C. Forest, Miles, Iowa, (sale at Lyons, Iowa).
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, E. W. Kreischer, Mt. Vernon, Ia.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Iowa.
Feb. 6, Williams Bros., Villisca, Iowa.
Feb. 6, John I. Dripps, Sprinville, Iowa.
Feb. 6, Morris Forler, Arcadia, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb, 13, W. E. Epley, Diller, Neb.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Iowa.
Feb. 17, Henry Fesenmeyer, Clarinda, Iowa.
Feb. 17, G. J. Bloemendaal, Alton, Iowa.
Feb. 18, J. W. Pfander & Sons, Clarinda, Iowa.
Feb. 19, C. W. Phillips, New Sharon, Ia.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Ia.
Feb. 25, J. H. Fitch, Lake City, Iowa.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Iowa.
Mar. 2, A. W. Stewart, Harlan, Iowa.
Mar. 7, J. H. Healy, Manilla, Iowa.

Duroc Jersey Swine.

Dec. 18, H. E. Browning, Hersman, Ill.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, F. E. Zimmerman, Metamora, Ill.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 20, Wm. Zimmerman & Sons, Mc Nabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, Kuper Bros., Bellevue, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Iowa.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, Lake City, Ia.
Jan. 27, H. S. Fain, Emmetsburg, Iowa.
Jan. 28, B. F. Danford, Ord., Neb.
Jan. 28, F. S. Dickey, Emmetsburg, Ia.
Jan. 28, P. W. Weberg, Denison, Iowa.
Jan. 29, Grant Lynn, Spirit Lake, Ia.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Iowa.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 3, R. J. Harding, Macedonia, Iowa.
Feb. 5, Swan & Ellis, Indianola, Iowa.
Feb. 10, J. C. Theobold, Ohiowa, Neb.
Feb. 10, M. E. Merfield & Sons, Greene, Iowa.
Feb. 11, H. Smith & Son, Tobias, Neb.
Feb. 12, H. H. Koenig, De Witt, Neb.
Feb. 13, Wm. Retzlaff, Bennet, Neb.
Feb. 16, Briggs Bros, Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, A. D. Freed, Kelley, Iowa.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 19, H. Wernimont, Ohiowa, Neb.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 26, M. M. Hendricks, Falls City, Neb.

Hampshire Swine.

Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Feb. 4, C. A. Brook, Washington, Iowa.
Feb. 24, Clayton Messenger, Keswick, Iowa.

Chester White Swine.

Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Iowa.
Feb. 13, G. H. Tutt, Marathon, Iowa.
Mch. 12, H. D. DeKalb, DeKalb, Iowa. (Sale at Council Bluffs, Iowa.)
Mch. 19, Roy E. Fisher, Winside, Neb.

Short-horn Cattle.

Dec. 4, American Short-horn Breeders' Association, Chicago, Ill.
Dec. 9, J. A. Richardson, Wall Lake, Ia.
Dec. 10, Blank & Kleen, Franklin, Neb.
Dec. 10, C. A. Oldsen, Wall Lake, Iowa.
Dec. 16, Breeder's Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. T. Judge, Carroll, Iowa.
Dec. 18, L. C. Shepard, Irwin, Iowa.
Jan. 6, Louis H. Scheetz, Belle Plaine, Ia.
Jan. 16, T. E. Bly, Brewster, Minn.
Feb. 26, W. B. Bonnifield, Ottumwa, Ia.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, Geo. H. Burge, Mt. Vernon, Ia.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.
June 9, M. W. Myers, Beaman, Iowa.

Hereford Cattle.

Dec. 5, American Hereford Breeders' Association, Chicago, Ill.
Dec. 8, W. E. Hemenway & Son, Steward, Ill.
Jan. 14, Henry Reimers, Gladbrook, Ia.
Feb. 18, Geo. J. Anstey, Massena, Iowa, sale at South Omaha, Neb.
Feb. 19-20, Breeders' Combination Sale, Grand Island, Neb., Robt. D. Mousel, Mgr., Cambridge, Neb.
Feb. 25, W. T. McCray, Kentland, Ind.
Jan. 28, Mousel Bros., Cambridge, Neb.
Mar. 6, J. B. Ashby, Audubon, Iowa.
Mar. 9, B. W. Gregory, Harlan, Iowa.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.
Mar. 24, Ben Broughton, Lake View, Ia.

Galloway Cattle.

Dec. 2, American Galloway Breeders' Association, Chicago, Ill.

DATES FOR LIVESTOCK SALES.

Aberdeen Angus.

Dec. 3, American Aberdeen Breeders' Association, Chicago, Ill.
Mar. 25, C. J. Martin, Jefferson, Iowa.
Mar. 26, C. M. Russell, Carroll, Iowa.

Holstein-Friesian Cattle.

Jan. 15, F. E. Zimmerman, Metamora, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.
Dec. 9, J. A. Sage, Ankeny, Iowa.
Dec. 11, Trumans' Pioneer Stud Farm, Bushnell, Ill.

Belgian Horses.

Feb. 19, Chas. Irvine, Ankeny, Iowa.

Percheron Horses.

Dec. 9, W. S. Corsa, Whitehall, Ill.
Dec. 10, A. L. Robison & Sons, Pekin, Ill.
Jan. 14, Glick & Son and S. G. Hegarty, (sale at Stanwood,) A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.
Feb. 19, Chas. Irvine, Ankeny, Iowa.

FIELD MEN.

M. T. White, western Iowa, and northeastern Nebraska. Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern, central and western Nebraska. Address 145 S. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201 Washington Building, Madison, Wis.

FIELD NOTES.

Lewis Kreitzberg, Griswold, Iowa, is advertising some good Duroc boars for sale on page 45.

U. G. Burton, Storm Lake, Iowa, advertises immune Duroc Jersey boars for sale on page 45.

Wm. Bauer, Audubon, Iowa, advertises fifteen immune Duroc Jersey boars for sale on page 45.

C. R. & R. W. Steele, Ireton, Iowa, advertises forty head of immune Duroc Jersey boars for sale on page 45.

Thirty high-class immune Duroc boars are advertised for sale by R. F. Aikman, Audubon, Iowa, on page 45.

Edw. Dooley, Selma, Iowa, offers Hampshire boars for sale at most reasonable prices in his advertisement on page 40.

Hampshire boars at special prices are advertised for sale by Roy E. Fisher, Winside, Neb., on page 46. Get your order to him at once if you want o good one.

Fall and spring boars of the very best of Hampshire breeding and nicely belted can be secured of Wood & Wescott, Sheffield, Ill. These men can please you. See page 46.

O. E. Osborn, Weston, Iowa, offers four very choice spring boars for sale sired by his great boar, King Gano. These are strictly choice. If you want one you will have to get in touch with Mr. Osborn at once.

On page 40 Wm. H. Nolin, Monroe, Iowa, announces that he has for sale twenty-five Poland China boars of spring farrow and two herd boars. These hogs have been given the single treatment and are in good thrifty form.

Profit farm boilers for the cooking of feed for animals have been made and sold to farmers for so many years that they have really become a necessity in farm equipment. The Profit is advertised on page 18. Read what it says. Every statement will be proved to those who write for further particulars to D. R. Sperry & Co., Batavia, Ill.

For the ordinary power requirements of the farm, the Waterloo light farm tractor is filling a long-felt want. It can be used for practically all of the farm work. For plowing it has special adaptation. There is no risk in purchasing any of the Waterloo goods as they are all sold under a strong five-year guarantee. For catalogues and special prices, write to the Waterloo Gasoline Engine Co., 179 W. 3d Ave., Waterloo, Iowa. See advertisement on page 12.

With as many as seventy illustrations which make it valuable in its lessons in veterinary work, the Practical Home Veterinarian becomes a book that should be in every farmer's library. It is the work of Dr. David Roberts, a well-known veterinarian, prominent above most others and an acknowledged authority. While most druggists supply this book without cost, a special copy of it may be obtained by sending 25 cents to Dr. David Roberts Veterinary Co., 9143 Wisconsin Ave., Waukesha, Wis. See advertisement on page 33.

Buyers of Duroc Jersey pigs of either sex should read the advertisement of A. Nevins & Son which will be found on page 40. The Nevins herd has in service herd boars of unusual quality and popular lines of breeding such as Col. Kruger, Defender's Likeness, Model I. M. and Prince A's Col. The latter was first-prize pig under a year at the International Show of 1912. Every one of them traces to championships at leading shows. Note prices. Send orders to A. Nevins & Son, Modesto, Ill.

Some splendid Duroc Jersey boars fit to head good herds are offered for sale by P. W. Weberg, Denison, Iowa.

J. A. Beaumaster, Elma, Iowa, can supply our readers with big-type Poland China boars of March and April farrow, sired by Long King and O Wonder, a grandson of A Wonder. His prices are very reasonable. See page 47.

Hampshire boars of the same breeding as the silver cup winners at Des Moines in 1912 can be secured of F. T. Quire, Sully, Iowa, at $35 each. These boars have had the double treatment and are guaranteed breeders. See page 46.

Geo. T. Pearce & Son, Bloomfield, Iowa, can supply a choice lot of February and March Hampshire boars, open sows or sows bred for early spring litters to Corrector, a prize-winning sire, at reasonable prices. See page 46.

B. W. Hunt, Denison, Iowa, is offering a splendid lot of fall and spring Duroc Jersey boars for sale. He is making cut rates on these boars in order to close them out and if you want one it will pay you to go and see him right away.

The big advertisement of R. Wilkinson & Sons on page 42 makes interesting reading for farmers or any others who contemplate the purchase of Shire horses. For their special low prices or additional description write R. Wilkinson & Sons, Mitchellville, Iowa.

Allen Bros., Russell, Iowa, advertise O. I. C. boars on page 40. Their Highland herd has occupied a prominent place among the breeders and has produced prize winners at the Iowa State Fair. The pigs offered for sale at the present time are of the big, smooth type.

Guaranteed stock watering tanks are made by the Burnham Mfg. Co., and advertised on page 24. The firm also makes hayracks and other devices used on the farm. An illustrated catalog and special price list may be obtained by writing to the Burnham Mfg. Co., Dept. A, Charles City, Iowa.

Well-bred registered Holstein cows are offered for sale by C. S. Mulks, of Riceville, Iowa, also bull calves. Prices, descriptions and other information will be learned by writing to the address named. The herd is a good one and has made some excellent records. See advertisement on page 21.

On March 24th, Ben Broughton, Lake View, Iowa, will make a sale of Hereford cattle and he will have a great lot of bulls and females for this sale. Included will be his entire show herd and an extra good lot of young bulls. Later in the season we will tell Homestead readers more about what he will sell in this sale.

Louis H. Scheetz, Belle Plaine, Iowa, announces a sale of Short-horn cattle to take place at his farm, January 6th. At this time Mr. Scheetz will sell about sixty head of good useful breeding cattle that should interest the farmer who wants to improve his beef cattle. Full particulars will appear in later issues of The Homestead.

M. E. Merfeld & Sons, Greene, Iowa, offer for sale high-class Duroc Jersey boars sired by Merfeld's Wonder, Chief's Model 2d, Choice Advance, Chief Select Jr. and Notcher Chief. The spring pigs are a great lot and will suit anyone looking for size, heavy bone, length and smoothness. If you want a good boar write this firm mentioning The Homestead. See page 45.

Bert A. Randell, Mt. Zion, Iowa, breeder of Chester White swine, writes: "We have sold all of our boar pigs, but still have twenty-five or thirty gilts that are good in every respect. We are making an attractive price on them for the next thirty days, and will guarantee satisfaction. These gilts are of the best blood in the state." Mr. Randell's advertisement appears on page 44.

It is a fortunate circumstance for the agricultural interests of the state of Iowa when an institution like the Chicago Stock Farm is established. This for the reason that while the work is conducted in an extensive manner, it is along practical lines that insure profitable returns. The Chicago Stock Farm is one of the greatest dairy cattle institutions in the West. It maintains a herd of Holstein-Friesian cattle quite large in numbers, but better than that which show lines of breeding that have accomplished greatest results and individual performance that promises to attract even greater success than in the past. During the year 1912, ten cows of the Chicago Stock Farm made official tests that were remarkable in their results. A single cow gave 25,660 pounds of milk from which there was produced 1,025 pounds of butter. The average of the ten in pounds of butter in one year was 882, which is indeed an extraordinary showing. The herd is headed by Johanna Bonheur Champion and Maplecrest Butter Boy De Kol. The former is from the great Gillett herd. His three nearest dams averaged 1,013 pounds of butter in one year. He has proven a breeder of remarkable prepotency and has been so generally recognized as a bull of unusual merit that the demand for his services has covered the entire territory from New York west. The last-named bull is from the Dimick herd and he is the nearest male relative to the world's champion cow, Banostine Belle De Kol that made 1,322 pounds of butter in one year. The Chicago Stock Farm is offering for sale young bulls of high individual excellence and with A. R. O. records on the part of his ancestors. The herd is annually given the tuberculin test and for four years past has been free from any suspicion of disease. Quality considered, very reasonable prices will be quoted on these young bulls. Address R. B. Young, Buffalo Center, Iowa.

The Hillside Herd of Hampshire swine are advertised on page 46 of this paper. At the present time spring boars are offered for sale. These are from strains that have been prominent at the big shows. Reasonable prices will be quoted. Address inquiries to W. M. Sipherd, Grand River, Iowa.

That old veteran Poland China breeder, John Schmieder, Remsen, Iowa, offers some great boars for sale, sired by Blue Valley Chief and Pawnee Defender on page 47. These are all immune and are strictly choice boars. He also offers three good fall boars for sale. He is making special prices on these boars for the next thirty days.

Duck Brand Rubber Boots are advertised on page 13. These boots are made from pure rubber, reenforced against all strain, and also receive a proper attention to shaping which makes them extra comfortable. The additional fact that they are sold at reasonable prices makes a list of their superiorities which is hard to equal. Most dealers sell them. They are made by the Duck Brand Co., 22-26 S. Market St., Chicago, Ill.

F. H. Dickey, Emmetsburg, Iowa, owner of one of the very best Duroc Jersey herds in the northern part of the state, is offering a splendid lot of Duroc Jersey boars for sale on page 45. These boars are all immune and they are right in every way. He has a number that are the kind that should go to the head of good herds. He is making special prices on them as he wants to close them out within the next thirty days.

Genasco ready roofing is advertised on page 8. This roofing comes very near to being a natural roofing material. It is made from Trinidad Lake Asphalt which gives it permanency, fireproof and waterproof qualities and retains at the same time an elasticity which makes it particularly desirable for the purpose. Samples and a valuable guide to roofing may be had by writing to The Barber Asphalt Paving Company, Philadelphia, Pa.

Any of our readers who may be contemplating a change of location will be interested in the announcement of southern lands which appears on page 27 of this paper. Good lands in desirable southern locations are offered at from $15 per acre up. These are suited to truck raising, poultry farming, fruit growing and in fact, general farming. A growing season of from seven to ten months offers advantages that northern farmers certainly appreciate. Write for "Southern Field" a magazine devoted to the promoting of southern lands. Address M. V. Richards, Land and Industrial Agent, Washington, D. C.

The advertisement of the Central Iowa herd of Chester White hogs which appears on page 40 offers an opportunity for farmers and breeders to buy spring boars of that breed for a reasonable price. The herd is made up of the most popular strains of blood from the best and most popular herds and afford animals of excellent merit. They are the get of Iowa Pride, Royal Banner, Barr & Raes, Pathfinder and Pathfinder 2d. Their special bargain is offered in Iowa Pride, a son of the Iowa State Fair grand champion of 1913. For additional description or special prices, write to G. O. Satre, Jewell, Ia.

While the buying of furs is looked upon quite often as a matter of extravagance, it is in fact in most cases highly economical. Especially is this the case when Lanpher furs are bought. These are advertised on page 10. They are the result of the last forty years of experiment of expert designers and furriers. These furs have style, fit, durability and a distinctive beauty. The Lanpher fur book gives illustrations, descriptions and prices and shows that, after all, the best is the cheapest in fur goods as in others. The firm also manufactures mackinaws, ulsters, sheep-lined coats and men's fur-lined coats. For a copy of catalog, write Lanpher, Skinner & Company, St. Paul, Minn.

On Wednesday, December 10th, will occur the annual offering of imported and American-bred Percheron horses at A. L. Robison & Sons' Leslie Farm, Pekin, Ill., and for this event forty head have been cataloged, the equal of which has rarely if ever been seen in a sale offering. Thirty-four mares and fillies are listed, twenty of them imported, and ranging from yearlings to four year olds, while the fourteen American-bred ones, many of them produced at Leslie Farm, are right in every way. The production of high-class Percherons has been carried on at Leslie Farm for a great many years, and out from it have gone some of the best horses the country has ever seen. Five of the greatest gray stallions known to the breed have stood at the head of the Robison stud, namely Powerful Seducteur, Hisse Haut, Rabelais and Moulinet, and from them have sprung an almost endless line of good horses. There are six stud colts listed for the coming sale, the get of Rabelais and Moulinet, that are a decidedly attractive lot and should be in demand sale day. It is seldom that so much value and good breeding is embraced in one sale as will be found in this offering, and those who attend will be in no way disappointed. The Robison firm has made many public offerings of good horses, but never as good a one as this will present to the public December 10th. In later issues we will speak in detail of much of the offering. In the meantime write for the handsomely illustrated catalog to A. L. Robison & Sons, Pekin, Ill., and arrange to attend the sale. This sale follows the Corsa sale of Percherons at White Hall, Ill., December 9th, and there will be

special sleeping car service between the two points. When writing for a catalog kindly mention this paper. See advertisement on page 39.

The annual breeders' sale of registered horses of the different draft breeds will be held in the coliseum at Bloomington, Ill., January 27th to 30th inclusive and entries will close December 30th. Many of the leading importers and breeders are consigning to this sale and parties wishing to dispose of their surplus stock will find this a good outlet. Entry blanks and full particulars can be secured by addressing the manager, C. W. Hurt, Arrowsmith, Ill.

The American Steel and Wire Company having been so highly successful in the promotion of the American Field fence have introduced new ideas in heavier galvanizing and steel posts. These additions to the original perfections of the American fence are making it a strong competitor for the first place as a useful and long-lived fence. For catalog giving complete description and special prices, address American Steel and Wire Company, Chicago, Ill. See advertisement on page 18.

The Perfection Pork Products Co., Waterloo, Iowa, have an advertisement on page 32 which ought to attract the attention of every farmer who wishes to put up ham and bacon in such a manner as to make them attractive. This company is putting out a number of different preparations for the curing of meats. Their advice is based on actual experience and they will be glad to furnish valuable information to every reader of this paper who will write to the address named above.

Highest cash prices are paid for hides and furs by the National Fur & Tanning Co., whose advertisement occupies a prominent place on page 11. In selling hides and furs the value depends upon the manner in which they have been prepared. The National people have printed a book of instructions on the care of hides. This tells what to do with them from start to finish and how to ship them. If the advice is followed there will be a decided increase in valuation and top prices may be looked for. This book is free. Write for it to the National Fur & Tanning Co., Dept. 4478, Omaha, Neb.

In a recent letter from L. R. McClarnon, Braddyville, Iowa, he says: "I have just sold a Big Orange boar to F. O. Brown, Wapakoneta, Ohio, the other day on a telegram for $300. While this looks like a good price, it is dirt cheap for him as he was one of the best I have raised this year. He weighed 700 on scales, is seventy-four inches long, seventy-four heart and seventy-four flank, and had a nine and one-half-inch bone. He was seventeen months old, was active as a pig and he did not have a defective place in his whole make up." Mr. McClarnon is making great preparations for his February brood sow sale, when he expects to sell the best bunch of sows that has ever left his farm.

John H. Fitch, breeder of Poland China hogs makes a new announcement on page 46 of this paper. Writing with reference to the pigs he has for sale, Mr. Fitch says: "My pigs are doing fine, and my advertisement in The Homestead is bringing its share of business. I have recently made sales to parties from Indiana to the Gulf in Texas. Please tell your readers that I have still for sale twenty fall yearlings that can be bought for $35 each and fifteen good spring boars for $25 each." The Fitch herd have been noted because of the size and quality which is produced. The animals now offered for sale are right up to the reputation of the herd. Address inquiries to John H. Fitch, Lake City, Iowa.

Farm values all over the West are increasing so rapidly that in no section can it be considered economical to have any uncleared land. Particularly is this true, when, through the use of the Hercules steel stump puller, the stumps may be cleared from an acre of land a day. The Hercules is a money-maker from every point of view. It makes money for the operator; it makes money for the farm owner because it affords him good crop land and puts the farm into a more salable condition. This stump puller is sold on a thirty days' free trial and on a three-year guarantee. A big catalog describing the Hercules sent upon request. Address Hercules Mfg. Co., 141 22d St., Centerville, Iowa. See advertisement on page 32.

On December 3d, during the week of the International show the American Aberdeen Angus Breeders' Association will hold its annual combination sale. The offering consists of fifty-two head of the best Aberdeen Angus cattle from a point of breeding and individuality that has ever been listed for a sale at Chicago. The animals have been selected from the leading herds of the country and over 80 per cent of the offering are represented by the Blackbird, Trojan Erica, Pride and Queen Mother families. There are twenty bulls listed which are of show yard character and fit to put at the head of any herd in the country. The females are a superb lot teeming with the best blood of the breed and many of them have long lists of honors from recent fairs and shows. Anyone in the market for a top notch bull to place at the head of a herd or for a few choice females cannot afford to miss this sale. Everything is guaranteed by the association through its members and contributors who are as follows: R. M. Anderson & Sons, O. V. Battles, Dwight Cutler, W. J. Miller, L. McWhorter & Son, Omer Catterson, Wilson Bros., John S. Goodwin, M. A. Judy, L. E. Fey, F. B. Turnbull, C. D. & E. F. Caldwell, Escher & Ryan, J. D. Rogers, A. C. Binnie, Kansas Agricultural College, Escher & Dalgety and M. D. Himes. A glance at the above names of leading breeders should convince everyone the association is only listing top notchers. Send to Chas. Gray, secretary, Union Stock Yards, Chicago, at once for a catalog and arrange to attend this sale.

Safety and comfort in the farm home are greatly promoted through the use of good ranges and heating stoves. A practical test of the stoves of Kalamazoo make, makes them worthy of consideration on the part of every farmer who is about to buy. The illustration in the advertisement on page 30 shows one style of range and one Radiant base burner heater. A great number of other styles are made. For a big catalog and price list which also gives full details as to the easy terms of payment and delivery with freight charges prepaid, write for catalog 165. Address Kalamazoo Stove Company, Kalamazoo, Mich.

Illustrations in the advertisement of the James carrier on page 21 show the advantage and convenience of using one of these carriers in barns and yards. The James is an up-to-date device which has been so perfected as to have eliminated all heretofore objectionable features in a carrier. As an assistant in cleaning the barn or stable, it is perfect in its labor-saving points. One man may remove the manure from a barn and deposit it away out in a yard without leaving the barn door. Complete information concerning this device may be learned by filling out the coupon in the advertisement and forwarding it to James Mfg. Co., AV98 Cane St., Ft. Atkinson, Wis.

The next term of Jones' National School of Auctioneering will open at the school building in Chicago, December 8th, the Monday following the International Livestock Exposition, and those who enroll for this term will have the advantage of four days' free admission to the greatest livestock show in the world. The Jones school is the oldest established and largest institution of its class in existence, and the scholars who are fortunate enough to take a course there are well on the road to success. The instruction is of the most thorough kind and is given by men who have a practical knowledge of the business gained through years of active experience. No person intending to follow the profession of auctioneering can afford to miss attending the Jones school, as by no other means can so much valuable knowledge be secured. The advertisement appears on page 43 and a handsomely illustrated catalog giving full particulars will be sent upon application to Carey M. Jones, president, 14 North Sacramento Boulevard, Chicago, Ill. Kindly mention this paper when you write.

J. O. Walton, Belle Plaine, Iowa, desires to close out his fall Poland China boars and for this reason has reduced the price to $25 and $30 each. These boars are of good quality, have plenty of size and bone and are well worth the money. He is offering his spring boars at $15 each. These boars are all from sires and dams that passed through the cholera two years ago which makes them come from immune ancestors. See page 46 and write Mr. Walton, kindly mentioning The Homestead.

Zene G. Hadley, Wilmington, Ohio, in furnishing copy for his mule-foot hog advertisement, appearing on page 46 of this issue, writes: "Both the leading show sow and the leading show boar of the mule-foot breed are in my herd. I own Lewis Boy that has been shown thirty-four times and has won first thirty-two times. I also own the sow, Daisy Queen, that has been shown thirty-eight times and has been thirty-two times winner of first. Twice she was defeated by a sow in my own herd, and neither Lewis Boy nor Daisy Queen have ever been defeated for championship at a state fair. At the Forest City Fair at Cleveland, one of the largest shows of mule-foot hogs that has ever been held, my herd took all firsts but two, and all championships."

Accurate statements and no misrepresentations of any nature are necessary to an advertisement before we will accept it for our columns. So we, therefore, feel free to earnestly advise our readers, when interested in any of the articles advertised in our paper, to write direct to the manufacturers for catalogs and full particulars, even though the goods are sold through the local dealer. The manufacturer of a product can naturally answer your questions much better than his local dealer, and if you do not know the name of the dealer handling the particular article, the manufacturer is, of course, only too glad to direct you to him. It pays best in the long run to thoroughly investigate a product before you buy it, and you should get the catalogs issued by the various manufacturers making the product in which you are interested. A brand new catalog of "Pittsburgh Perfect" fencing, issued by the Pittsburgh Steel Company, Pittsburgh, Pa., has just come to our desk, and we note it contains much valuable information to all fence users, including some simple wire tests by which you can conclusively prove to yourself the value of any wire before you buy it. The company will send a free copy to anyone writing for it, if they mention this paper. See page 25.

Nyrup Offers Boars at $20.

Those of our readers who have not as yet purchased their Poland China boars can get a good one from John C. Nyrup, Harlan, Iowa, at $20 and $25. Write him at once and mention The Homestead. See advertisement on page 46.

George Everts Immune Duroc Boars.

Our old friend, Geo. C. Everts, Audubon, Iowa, is offering a great line of Duroc Jersey fall and spring boars for sale and they are cholera proof and immune. He wants to close these out and will make special prices for the next thirty days.

Porter's Poland China Boars.

C. H. Porter, Eagle Grove, Iowa, writes us that his boars are coming along in fine shape and he has a few very choice ones left. All cholera immune, and they are going at prices that are satisfactory to every one of their patrons. Write Mr. Porter about these boars and mention The Homestead

Saunders' Omaha Sale.

We desire to say to Short-horn breeders that C. A. Saunders, Manilla, Iowa, has enough cattle for his South Omaha sale on December 16th. He writes us to say that he has some splendid consignments, both in the way of bulls and cows and heifers. Write him a postal and inscribe your name on the same and have him send you a catalog when it is out. Mention The Homestead when writing him.

Oak Lawn Duroc Jerseys.

In an advertisement on page 45 W. J. Hartung notifies our readers that he has for sale a fine lot of Duroc Jersey boars. Writing under recent date, Mr. Hartung says, "I have twenty large, growthy spring boars that carry the best blood line known to the breed. They have good length, big bone, and although in only fair flesh will weigh around 200 pounds each. I can truthfully say that these are the best boars I have ever had and a better lot it would be hard to find anywhere. The gilts that I am offering to the trade are equally as good as the boars and will weigh from 175 to 200 pounds each. I am quoting from $20 to $30 on these pigs according to size and quality." The Hartung herd has always produced strictly good pigs and he has sold them at prices which gave the buyers the advantage. Correspondence is solicited and a square deal guaranteed to all. Send orders to W. J. Hartung, Maxwell, Iowa.

Some Great Poland China Bargains.

If any of our readers want some good bargains in Poland China gilts they should read the advertisement of A. W. Joy, Herman, Neb., on page 47. He offers twenty-one head of gilts that will average 325 pounds and will sell them open or bred at $40 to $50. Also ten choice brood sows at $50 to $75 and five head of spring boars at $30 each. These are all immune. Write him at once and mention The Homestead.

Kading's Berkshires.

A. A. Kading, Fenton, Iowa, is advertising twenty-five Berkshire boars for sale on page 40. These boars have been immuned and are weighing from 250 to 275 pounds. They are sired by Sunrise Value A. and Fenton's Rival. These boars are extra good boned fellows and are priced at $25 to $35 each. Mr. Kading will be pleased to hear from any of our readers in need of a good Berkshire boar. When writing him kindly mention The Homestead.

Robison Percherons at International.

An attractive display of Percheron horses from the Leslie Farm of A. L. Robison & Sons, Pekin, Ill., will be made at the International show at Chicago the first week in December, and included will be a number of the outstanding things that are cataloged for their sale on December 10th, the Wednesday following the International. Don't overlook this exhibit. In the meantime write A. L. Robison & Sons, Pekin, Ill., for a copy of the catalog of their sale, and watch the columns of this paper for further particulars. Mention The Homestead.

Good Chesters by Good Goods.

T. A. Stevensen, Proprietor of the Grandview Stock Farm, Shannon City, Iowa, and one of the veteran Chester White breeders of the West, writes concerning his stock as follows, "Good Goods 21423 by Fancy Goods has this season produced for me the best class of Chester Whites that I have ever bred on my farm in the twenty-five years I have been in the business. My herd have never been in better health and I guarantee every pig I send out to be all O. K. in every way. I have males and females that are good enough to go into the best herd in the United States I have spring pigs that will weigh from 175 to 200 pounds. I have also a fine six-year-old English Shire stallion for sale. He is a good one and has never been beaten in the show ring. I will sell him at a very low price or will take in exchange a choice two year old or three year old of the same breed. My Angus cattle are in fine shape and I have some early bull calves that I will sell at an even $100 if taken within the next thirty days." Mr. Stevenson's new advertisement will be found on page 44. Write him at the address above named.

Huger's Duroc Boars.

In a recent letter from A. F. Hager, Avoca, Iowa, he has the following to say about those good Duroc Jersey boars he is offering for sale. "I have a nice bunch of boars on hand and they are doing fine. These are sired by my noted breeding boar, A. F.'s Pilot Wonder and Model Gano. Just on that I am now making special prices on these boars in order to close them out, and I will be pleased to have intending purchasers call and see them or write me at once." Mention The Homestead when writing Mr. Hager.

Cusha Netherland Twisk.

The engraving of the Holstein cow, Cusha Netherland Twisk which appears on page 16 is an excellent presentation of that cow. She is now owned by Elliott Bros., Woodward, Iowa. These gentlemen purchased her at a public sale at Waterloo, paying the top price of the sale for her, and with all that, it is a common expression that she was the cheapest animal in the sale. She has a one-year record of 720 pounds of butter from 17,780 pounds of milk. This picture was taken shortly after the completion of the year's record.

Kent's Chester Whites.

On page 40 of this week's issue Thos. F. Kent, Walnut, Iowa, one of the most noted breeders of prize-winning Chester Whites, makes a change of his advertisement and he offers anything you want from a prize-winning boar and sow down to fall pigs. The Kent herd won nearly 400 ribbons in 1912 and 1913, so you may know he has a herd that must be recognized. These winning were made at the leading state fairs in the West, viz: Iowa, Nebraska, Kansas, Missouri, Illinois, Minnesota and other western states. If you want anything in the Chester White line Thos. F. Kent can fill your order. When writing him kindly mention this paper.

Hampshire Boars For Sale.

Howard Niswander, Kinross, Iowa, has a few extra good spring boars sired by Messenger Boy, Dude and other prize-winning boars that he is pricing worth the the money. The breeding is as good as can be found in the herd books and Mr. Niswander has taken good care of these pigs and they are sure to please anyone wanting a really good Hampshire boar. Mr. Niswander is also offering for sale his herd boar, Maurer King 7299, junior champion at the Ohio, Indiana and Kentucky State Fairs, 1911. This boar is a sure breeder and is right in every particular. If interested see page 46 and write Mr. Niswander mentioning The Homestead.

Sage's Shire Horse Sale.

One of the more important events to those who are interested in Shire horses is the public sale of J. A. Sage, advertised on page 41 of this paper Mr. Sage is a horseman from the ground up. He knows good horses, he knows how to raise them with just a very few exceptions. The entire sale consignment were raised on the Sage farm and are all descendants from the first or second generations from one Shire mare which was purchased as the foundation material. It goes without saying that this mare was a good one and it is to her credit as a breeder that in eight years so large a collection of her descendants should be kept together and have such impressive Shire character. There is little doubt that no sale of the season will contain as large a number of typical Shire horses as does this one. Some support of this statement is given by the fact that in four years' exhibition at the Iowa State Fair the Sage horses have captured forty-four prizes, a fair share of them being first and second ribbons. There will be eleven brood mares which have been bred to Brown Prince 12326. Five other mares are under breeding age. The six stallions are good ones, Brown Prince, above referred to leading the lot. The others are two year olds, yearlings and colts. Every one is sound. For details or pedigree and individual descriptions write for catalog addressing J. A. Sage, Ankeny, Iowa.

Walker & Son Still Offer a Few Choice Boars.

A few very choice boars, probably as good as raised on their farms this season are now for sale by Thos. F. Walker & Son, Alexandria, Neb. These gentlemen, more than 90 per cent of the breeders of pure-bred hogs, have worked for years and years to perfect a type of easy feeding, big hogs. They have succeeded in no uncertain manner, and the product of their quarter century of effort is now at the disposal of Homestead readers. It is an opportunity that the writer believes will be only partly appreciated by Homestead readers. Most stockmen fail to realize the value of this kind of stock, as compared with the average pure bred. Hogs or anything else that has been bred for a given time with one purpose in view will in turn produce that type with greater certainty than will hogs from herds where they have pursued no policy, but simply mated pure-bred boars to pure-bred sows. Such men are not breeders, they are simply mixers. Walker & Son are Poland China breeders in the real sense of the word. Their boars and sows breed on. These men bred Combination, only one of hundreds of good ones to be sure, and he in turn sired Blue Valley, first-prize boar at Nebraska State Fair and one of the best sired, as well as one of the best individuals in northern Iowa. He was owned by John Schmieder, Remson. Other boars have done equally well, because they could not well do otherwise. They were bred to do well. A few boars

NEXT WEEK'S SALE PROGRAM

Tuesday, November 25 { Short-horns, J. W. McDermott, Kahoka, Mo

Wednesday, November 26 { Duroc Jerseys, W. M. Sells, Indianola, Iowa.

weighing around 300 pounds are still for sale. We want Homestead readers to buy them, they are worth more than the prices asked. Mention The Homestead and address as above at once. See advertisement on page 47.

Keep's Reduced Boar Prices.

With this week's issue Wm. Keep, Atlantic, Iowa, makes reduced prices on his Poland China boars on page 47. In writing us he says: "Just say to Homestead readers that I am offering the best bunch of boars I have ever had at $20 and $25 in order to close them out and make room for fall pigs. I never offered such good boars for as little money before. These will weigh from 160 to 200 pounds, guaranteed breeders and free from disease. They are sired by Big Lad, King Tom and a son of Big Orange. These are out of sows sired by Long King, Big Buddie, Smooth Wonder 2d and Big Orange. Now let's see if they will buy boars. Just say to them that the first that come will be the first served." Mention The Homestead when writing Mr. Keep.

Poland China Boars—$20 and $25.

On page 47 A. W. Stewart, Harlan, Iowa, is offering fifty head of fall and spring boars for sale at $20 to $40. He wants to close them out and he is pulling the price down where they will sell. The fall boars are all sired by a son of Blue Valley Exception and Big Victor, and the spring boars are sired by Mammoth Prospect and Panama Chief. This boar, Mammoth Prospect, is one of the best boars in western Iowa. He is a son of Hadley Prospect and he is out of Long Molly Perfection 2d, bred by John Meller. He is a 1,000-pound boar in condition and has a wonderfully big bone. Mr. Stewart recently secured the well-known boar B Wonder to help him out. Just now he wants to close these boars out, and his prices are away down. Write him at once and mention The Homestead.

Scarff Offers Chester White Boars.

J. T. Scarff, Salem, Iowa, an old reliable breeder of Ohio Improved Chester White swine, is offering for sale boars weighing from 200 to 250 pounds in nice breeding condition. They are largely sired by Michigan Chief, an 800-pound show boar that has never been defeated. These pigs have extra good bone and length and will be sold at $30 each if taken soon. Among them are some extra good growthy fellows that are suitable for herd-heading purposes. Mr. Scarff guarantees everything to be exactly as represented and to show that he knows he has the goods he will ship his hogs anywhere on approval. This is an absolute and fair proposition for the buyers and you will find Mr. Scarff standing back of all his business transactions. See page 40 and when writing him kindly mention The Homestead.

Myers Offers Short-horn Bulls.

M. W. Myers, Beaman, Iowa, has one of the good herds of Scotch bred Short-horns and at the present time has a few extra good Scotch bulls that he is pricing below their value. They are sired by King Banff 3d, a grandson of Imp. Lord Banff, and they are of the Marr Flora and Brampton Leaf families. King Banff 3d, the sire of these bulls, was out of Imp. Fairy Violet by Master Archer. These bulls are big, strong, vigorous fellows and in excellent breeding condition. Mr. Myers has a herd of Scotch cows that are far above the average. They are of the Dorothy, Milkmaid, Flora, Brampton Leaf and Dalmeny Princess families. Mr. Myers expects to hold a Short-horn sale June 9th and at that time will sell a really high-class lot of breeding cattle. If interested in a good Scotch Short-horn bull write Mr. Myers, mentioning The Homestead. See page 43.

Wilkinson Shire and Percheron Importations.

The horse importing firm of R. Wilkinson & Sons has been making rapid advancement during the last few years and now ranks right up with the best of them. Only last week the firm received its last importation of high-class Shires and Percherons, both stallions and mares. They are a splendid lot having size, bone, quality and with action and style that puts them right in the front rank of desirable and useful draft horses. Some of them belong to the show yard division and have proven themselves the winners of ribbons in both France and England. The firm also have a number of home-bred animals that have to their credit splendid winnings at American shows. H. P. Wilkinson, who selected the importation in person, believes that his consignment has no equal in any lot or any numbers brought over this year or is yet to come over. He knows a horse and his selection can be depended upon by those who are in search of true draft horses, with style and massiveness of build. The imported animals are getting along splendidly and are even now ready for the inspection of buyers. The Messrs. Wilkinson are making the strong feature of their business to eliminate a great many of the costs which most importers find it impossible to get around. They buy direct from producers without the intervention of agents or others who ordinarily claim a commission. By securing low prices and by doing their own selling direct to purchasers, they are enabled to eliminate many of the high prices that have heretofore been considered necessary in the purchase of the best sort of horses. They want to show all these animals to every prospective buyer. They want the opportunity to convince buyers of their ability to offer bargains heretofore unheard of. They believe they can do it. Their location is one which makes them easily accessible from almost any point. They are located only seventeen miles east of Des Moines, and there are hourly cars right from Des Moines over the Interurban as well as the regular trains over the main line of the Rock Island road. They invite correspondence as well as inspection. Write or call on R. Wilkinson & Sons, Mitchellville, Iowa. See the big advertisement on page 42.

Nobis Offers Duroc Boars and Gilts.

Chas. W. Nobis, Hanover, Ill., is advertising a choice lot of large, well-grown, heavy-boned boars and gilts sired by boars of noted breeding. They are largely sired by Audubon Col., by C. & E.'s Prince of Cols. and they are out of sows sired by Crimson I Am, Long Chief D., Attraction and R. H.'s Prince. These boars Mr. Nobis is offering will please and are priced worth the money. He also has a fine lot of gilts of the same breeding for sale. He is breeding these to Lucy's Wonder Col. (a half brother to the noted prize-winning Disturber) and will sell them safe in pig at prices that should move them. Mr. Nobis has been breeding Durocs for some time and he has the goods that will satisfy buyers. If interested in a good boar or gilt write for prices mentioning The Homestead. The advertisement appears on page 40.

Irvinedale Farm Belgians.

Chas. Irvine importer and breeder of Belgian horses advises us that he has had excellent trade up to the present time and that he still has on hand a number of Belgian and Percheron horses. Mr. Irvine announces that on February 19th he will hold a public sale to include stallions and mares of both breeds. A portion of the consignment will be animals imported especially for the sale. Among Mr. Irvine's recent sales is that of Robert II De Rum, which will be remembered as having been a prominent International and Iowa State Fair winner for several consecutive years. This horse went to a Minnesota buyer at a good price and he is certain there to make as good a reputation as he did at home as being one of the best stallions of the breed ever brought into the community. Those in search of good animals of either breed will do well to write or call on Chas. Irvine, Ankeny, Iowa. See advertisement on page 41.

Calkin's Immune Duroc Boars.

In a recent letter from E. A. Calkins, Ruthven, Iowa, he says: "I have been selling boars through my Homestead advertisement and have been selling a few at home. I have also had a few inquiries for gilts. You may tell The Homestead readers if you will, that I am saving my sows and gilts for my winter sale. My boars are doing fine and all of my customers are well pleased with them, one asked me if I didn't think I was selling them too cheap, another who had been to the Minnesota State Fair and looked from northern Iowa to the southeastern part of the state bought a Prince the Col. pig and is well pleased. He wanted a long, smooth, heavy-boned pig, one of the big ones with quality. Prince the Col. is making good as a sire, just watch him. I have three Prince the Col. pigs left, one out of a Chief's Col. dam is a show prospect, also have two half brothers to Prince the Col. and one or two others good enough to go in any herd." Mr. Calkins has a few very choice boars left, and as everything is immune it will be a good place ot buy a pig. Write him at once and mention The Homestead.

Westrope's Scotch Bulls.

On page 43 of this week's Homestead will be found the advertisement of J. G. Westrope, Harlan, Iowa, who is now offering fifteen head of splendid young Short-horn bulls for sale. It is seldom indeed that you will see as many good young bulls on one farm as he is now offering. Twelve of these bulls are straight Scotch and are mostly sired by his great breeding bull, Royal Rex 3d. This is the bull that has been siring all his show stuff and his get has commanded the attention and admiration of the best judges of cattle here in the West. Among the Scotch bulls will be found Rosebud, Princess Royal, Orange Blossom, Dainty Dame, Lady Fragrant, Victoria, Lady of the Boyne, and other good Scotch tribes. Some of these bulls are outstanding and are fit to head any herd in this country. One of the best bulls he has ever offered from this farm is that great two-year-old bull, Scottish Rex 370101. This bull is just two years old, and is a son of Royal Rex 3d. His dam is Carrie Esther 3d, by the Thompson-bred bull, Royal Prince 7th, then comes the great Forbes-bred bull, Baron Golddust, then chief Mason and Imp. Red Emperor. He belongs to the Campbell Rosebud tribe, and he certainly is a good one. He is a nice red in color, has a most excellent head and horn, masculine in character with a short neck set on a nice smooth shoulder, a good back, with excellent width over the crops and loin, a splendid quarter and well filled in the twist. He is just such a bull as any breeder would be proud to have at the head of his herd. We will say this that you will travel a long way before you will find another bull as good. It will pay any breeder who is looking for an outstanding herd bull to go and see this one. His thickness, nearness to the ground and great fleshing qualities make him one of the most desirable herd bull propositions that will be found in the West. Then he has two other red bulls, that are of the outstanding kind. One of these is Pine Valley Rex and the other is Royal Rex 5th. The former is a Lady Fragrant and was first prize and reserve champion at the Shelby county fair. He is just fourteen months and he is a good one. Royal Rex 5th is also a wonderfully good bull and a wonderfully well-mated bull. He belongs to that noted Princess Royal family, and either one of these will make outstanding herd bulls. Among the other good bulls is a Dainty Dame, and Orange Blossom, a

SELLS' GREAT SALE
DUROC JERSEYS

ALL VACCINATED AND IN THE PINK OF CONDITION

80 HEAD | 30 BOARS, 50 SOWS | 80 HEAD

INDIANOLA, IOWA
WEDNESDAY, NOVEMBER 26,'13

I AM moving away from Indianola and will sell all my **best boars and sows.** Among the boars I will offer are sons of **Crimson Wonder Again, L. E.'s Col., Model Chief VIII.** and other noted sires. I am selling **Lot Wonder,** a full brother to the **champion boar, Crimson Wonder III.** I am selling some great boars by **L. E.'s Col.,** out of **Crimson Golden Rod,** a daughter of my **famous brood sow, H. A.'s Queen.** I am selling a daughter of **Crimson Wonder Again** and out of **H. A.'s Queen,** and **20 fall sows** sired by **L. E.'s Col.** Also a **splendid Crimson Wonder yearling.** Others by **Harding's King of Cols., Col. Gano, I Am A Crimson Wonder II.,** and other great boars. **Also some choice sows with litters at side.** If you want Durocs here is the greatest opportunity of the year. Cols. Kraschel, Allen and Putnam, auctioneers. M. T. White, field man for The Homestead. Send for catalog and mention The Homestead. Address

W. M. SELLS, INDIANOLA, IOWA

Lancaster and a Lady of the Boyne. He also has a good three-year-old Cruickshank Victoria bull that he is offering for sale. If you want a good Short-horn bull it will pay you to go and see the Westrope bulls. When writing him kindly mention The Homestead.

Rouselle & Son Offer Choice Stallions.

We just want to mention that Jos. Rouselle & Son, Seward, Neb., have for sale right now some of the choicest horses in the West and they want to sell them quickly. They have sold some and have immensely pleased buyers. Men come from Illinois and Iowa to buy from Mr. Rouselle, because they are convinced that they get better values for the money than they could get nearer home. Natives of the old country, these gentlemen are able to get a chance at the good ones. Many American buyers cannot even buy horses they would like, for the dealers have options on many of them, but Rouselle & Son being able to speak the languages are able to locate many, and to get first chance at many horses that others cannot get. This is an item worth considering. These gentlemen have about a half dozen horses that they had thought of holding for their spring trade, but as they have already had good sales, they have decided to close out the remainder as soon as possible. Their prices will interest you. Write them and mention The Homestead.

Sharps' Hampshires.

Mike Sharp & Sons, Coal Valley, Ill., are among the leading breeders of Hampshire swine and Red Polled cattle. This firm has in years past won the lion's share of the important prizes offered for Hampshires at the leading state fairs. Few men are as good judges of Hampshires as is Mike Sharp. At the present time this firm has some bred sows of show-yard character and a few boars of herd-heading sort. They also have 130 of the best fall pigs they have ever had on the farm. These pigs are sired by Cherokee Lad, Palo Boy and Ikey Boy. Cherokee Lad is the best boar that Mike Sharp has ever owned with the possible exception of Solid Gold. Some might conceive the idea that Cherokee Lad had some fault when Mr. Sharp offered to sell this boar, but we want to say that Mr. Sharp will always price anything that he owns in the line of livestock. It was not for any fault, but it was because Mr. Sharp considered this boar worth $1,500 and thought possibly someone would be willing to pay the value of a really good boar. This firm will also sell a few Red Polled bulls and heifers of February, 1913, calving. Our readers need not be afraid to send this firm their orders as they are strictly reliable and ship out the very best on mail orders. They can sell fall pigs in pairs or trios, no akin, herd boars or bred sows and will be pleased to hear from any of our readers. See page 46 and write them mentioning The Homestead.

Binnie Angus at the International.

A. C. Binnie, of Alta, Iowa, will make a showing at the International which will prove interesting alike to breeders and exhibitors of Aberdeen Angus cattle. Mr. Binnie is putting forward at this show Kemp, a calf which has made a remarkable record at the state fairs this year. Beginning in Des Moines, he took second place, but the following week at the Nebraska State Fair he headed his class and was given junior championship, an honor which he carried away from five state fairs. This calf is by Kloman, the Binnie herd bull that has established a reputation as a breeder, which Mr. Binnie believes entitles him to premier position among herd bulls of the country. This calf will be offered for sale at the Chicago sale. Some liberal offers have been be n made for him at private sale, but Mr. Binnie prefers to put him through the sale ring, believing that appreciative breeders will recognize his full value. Kemp is no accident. He is a half-brother of Eramon, a calf by the same sire, which last year won junior championship at five big state fairs and then went to Texas where he added to his fame by taking first and grand championship.

North & Robinson's Horses.

One of the greatest horse-breeding establishments in Nebraska or in fact in the middle West is owned by North & Robinson, of Grand Island. These gentlemen have grown up in the horse business, have learned every phase of the business and are certainly prepared to furnish Homestead readers with high-class stock. They have this season imported a lot of good stock, and they have raised a fine lot of stock on these different farms. They have a splendid breeding farm at Cairo, Neb., and they at all times keep a high-class lot of stock there. They maintain a grand stud of registered mares at the farm at Bridgeport, Neb., and the very best stallions that they can find are in service there. It is a significant fact that the highest priced horses in their last winter's sale were horses that were produced in this country. There is no reason in the world why these gentlemen cannot produce just as good horses here as elsewhere. Climate favors them, and abundant pastures and the best alfalfa hay of a continent are at their disposal. Good breeding stock with such advantages is sure to produce well, and it does. These gentlemen ordinarily ask less money for these home-bred horses than they do for the imported ones, but when it comes to auction where the public sets the price, their home-bred horses sell with the best. We would ask Homestead readers that are interested in

LESLIE FARM PERCHERON SALE

PEKIN, ILLINOIS, WEDNESDAY, DEC. 10, '13

40 HEAD: 20 IMPORTED MARES, 6 STUD COLTS

PERCHERON MARES IN THE PASTURE AT LESLIE FARM.

WE WILL offer to the public the very best lot of Percherons to be sold anywhere this year. We are cataloging more good individuals than have ever before been submitted at Leslie Farm, and we know that the public will not be disappointed in them. The twenty imported mares include some of the best things that have ever left France, many of them good enough to win in the American show rings in the face of the hottest competition. Included are several of the get of Moulinet, the champion horse of France, now at the head of Leslie Farm stud. The imported mares are yearlings to 5 years old. Eight of them were bred in France and the balance, together with the 14 outstanding American-bred mares in the offering, are bred to Moulinet, his son Kauris, Jayet or Rabelais. There are six stud colts in the offering, the get of Moulinet and Rabelais, that will suit the most critical buyer. More Seducteur blood is listed for this event than has ever before been offered at one time. Attend this sale if you are in the market for Percheron mares of the highest quality and strongest breeding. Percheron breeding has been carried on at Leslie Farm for a third of a century, and this is the best lot of horses that we have ever presented to the public. The handsomely illustrated catalog tells the story. Write for it today, mentioning The Homestead, to

A. L. ROBISON & SONS - - - PEKIN, ILLINOIS

Cols. Carey M. Jones and Fred Reppert, Auctioneers. Attention is called to the Percheron sale of W. S. Corsa at Whitehall, Ill., Tuesday, Dec. 9. Good train facilities from that sale to Leslie Farm.

some good horses to make a trip to Grand Island, visit the farm at Cairo which is only a few miles distant and see for yourself this great plant. The good horses are there and will be priced worth the money. These gentlemen are the kind that is a pleasure to do business with and will give you good values. If writing, kindly mention The Homestead.

Blank Bros. & Kleen's Short-horn Sale.

Every season at about this time of year, Blank Bros. & Kleen, Franklin, Neb., offer a choice lot of Short-horn cattle, and the sale this season will be held Dec. 10th. On this date these gentlemen will offer one of the best offerings that they have ever put up. They raise these cattle on their different farms and this sale stock represents the major part of their surplus each season. They are certainly good stockmen, and have done a great work for Franklin and vicinity to say nothing of the good their cattle have done in other parts of the central West. They are good men to know, as they have grown up with the pure-bred cattle and hog business and at the same time they have grown up with Nebraska. They came to the country in an early day, they have by honest toil and clean living, earned a big lot of Franklin county land. They have kept their farms in good condition, and improved their herds from year to year. The writer is familiar with the herds and flocks owned by these men and it is a pleasure to see them striving and winning in this effort to produce the better things. It is also a pleasure to see their well-kept farms, run on a practical basis, for these gentlemen have had naught given them, and they husband well their resources. Were the writer buying breeding stock we would much rather buy from such herds than to buy from those that maintain their stock farms as playthings, and for whom it matters but little whether or not the livestock is a paying proposition. These gentlemen make their livestock operations pay. If this sort of stock will make dividends for them, it is safe to assert that the same stock in other hands, and with as good care will do as well. In the forthcoming sale, they will offer some forty head of young cattle. Nothing over five or six years of age will be offered and the greater part will be under two years. Animals of the best Scotch breeding will be included, but the mapor part of the offering will be of American sorts. The great breeding bulls, Missie's Sultan, Imp. Strowan Star and Lowland Marshall will be the sires of the greater part of the offering. There are good cattle in this sale, and we would like for Homestead readers to apply for the catalog without delay. Be sure and mention The Homestead when you write, and be sure and write at once. A postal will do, but send your name today before you forget it. Address Blank Bros. & Kleen, Franklin, Neb.

Slepickas' O. I. C.s.

With this issue of The Homestead, J. V. Slepicka & Sons, Wilber, Neb., are sending in a copy for their advertisement that appears elsewhere in this paper. These gentlemen are now prepared to offer The Homestead readers some extra choice immune O. I. C. boars and all of the very best breeding. This herd is really one of the very good ones of the state, in fact of the whole country. These blood lines are of the very best and these gentlemen are good stockmen, hence they are constantly improving their herds. They made the most sensational winnings at the fair a year ago of any herd shown in the state. They won first on junior yearling boar, 2d on senior boar pig, 1st, 2d and 3d on junior boar pigs, 1st on senior year sow, 3d on junior year sow and 1st and 2d on junior sow pigs. This was the best record of any exhibitor and shows very conclusively that these gentlemen have the goods. The boars now for sale are by Wilber O. K. and Grandview Choice. These are both boars of exceptional merit and worthy the place at the head of this good herd. Write for the prices on the good boars for sale and mention The Homestead when you write. See advertisement on page 40.

American Galloway Breeders' Sale.

In the sale of Galloway cattle at Chicago, on December 2d, during the International Livestock Show, one of the choicest lots of cattle ever listed for sale by the American Galloway Breeders' Association will be sold. While the offering is not large, there is a variation in breeding that is unusually attractive. It will be noted that the three imported bulls consigned by Mr. C. S. Hechtner—listed as Lots 1, 2 and 3—represent a different line of breeding from anything heretofore offered at public auction in America. These three bulls, as well as a number of others, have received high ratings in this year's shows, while the pedigrees of all reveal the most popular strains in Galloway breeding. The female offering also merits attention. It consists mostly of heifers and young cows, a number of which have calves at foot. These cows and heifers present the same richness of breeding as the bulls, and it will be found that most of them have been consigned from the best show herds of the season. Briefly described, this is an offering of choice cattle. To the rangeman of the West, as well as to the stockman and farmer of the corn belt, there is offered a variety of type and breeding from which each can select his individual needs. We are entering upon a new era in beef production, and here is an opportunity to start a new herd or to infuse new blood into the old. Here is also an opportunity to strengthen the show herd for next year. The usefulness of the animals as breeders is guaranteed. The following breeders contribute the cattle: C. S. Hechtner, three bulls and three females; S. M. Croft & Sons, five bulls and five females; James Frantz & Sons, two females; R. W. Brown, three bulls and five females; total twenty-six head—eleven bulls and fifteen females. For catalogs address R. W. Brown, secretary, Carrollton, Mo.

Hemenway's Hereford Sale.

W. E. Hemenway & Son will make a public sale offering of Hereford cattle at Steward, Ill., Monday, December 8th, following the International show, and for that event they have cataloged some very desirable things. The senior member of the firm has been a breeder of Herefords for over thirty years, and during that time has left his impression upon the breed by the production of good cattle. Many great bulls have found a home at the Grove farm, beginning with Chancellor by Horace, followed in turn by Shadeland Earl by Earl of Shadeland 22d, McKinley by Lorimer, Orpheus 4th by Wild Tom, Masquerader by Lamplighter, and in the judgment of the writer one of the greatest bulls that the breed has ever produced, and then Prime Star Grove, the present herd bull. In the coming sale the cattle are all the get of Masquerader or Prime Star Grove, with exception of four young cows by Ben Bolt, a grandson of Lamplighter. Twenty-four females are listed, including three daughters of Masquerader, Mercedes, five years old, Victorine and Cora 2d all bred to Prime Star Grove, and forming a trio of breeding matrons that would grace any herd. There are twenty yearling and two-year-old heifers in this sale, sixteen of them by Prime Star Grove and four by Ben Bolt, that will stand inspection sale day. In addition there are ten bulls, consisting of Prime Star Grove and nine of his sons. Mr. Hemenway has so much of the get of his herd bull that he is compelled to let him go. Prime Star Grove is a combination Anxiety, Grove 3d and Lord Wilton blood that is hard to beat, and at nine years of age, with the form and activity of a four year old, is doing excellent service in the herd. Some breeders needing the strongest kind of a herd sire should secure this bull. Among the young bulls are some very attractive things, notably Valentine, a junior calf of outstanding merit, and Bellmyer, an August yearling that will satisfy. During Mr. Hemenway's long connection with the Hereford industry he has been instrumental in building up a great many herds, particularly in northern Illinois, and has acquired a reputation for honest methods that is well deserved. Nine head of horses, including three registered Clydesdales, a stallion and two mares will also be offered on sale day. The advertisement of this sale appears on page 43. Look it up and write today for a copy of the catalog to W. F. Hemenway & Son, Steward, Ill., mentioning The Homestead when you write.

McDermott's Short-horn Sale.

Our readers interested in Short-horn cattle should not overlook the sale J. W. McDermott, Kahoka, Mo., will hold on next Tuesday, November 25th. Ten bulls and forty females sell and the breeder looking for choice stock to add to his herd will find this an excellene opportunity. It is an offering of practically all Scotch cattle representing as good sires as are found. Fair Goods by Choice Goods and out of the celebrated Ruberta, his son, Good Count, Avondale, Villager, Whitehall Rosedale, Elmdorf Marshal and other noted bulls are represented in the offering. The sale will be held on the fair grounds at Kahoka and Mr. McDermott would be glad to have you come. Stop at the Huston hotel as his guest.

Sells' Duroc Sale.

What will be the last sale of the year will be that of W. M. Sells, Indianola, Iowa on November 26th. When he will sell eighty head of Duroc Jersey boars and sows. Everything he sells will be vaccinated and are therefore immune. Mr. Sells concluded that breeders wanted them vaccinated and therefore had it done. He never had a case of hog cholera, nor swine plague on his farm, but he realizes that others want them vaccinated and he had it done. So much for the immunizing, now about the offering and why he is selling. He intends to move to Sidney, Iowa, and he concluded he would sell about all he had and therefore the eighty head he has listed for his sale. He is cataloging thirty head of boars in this sale and some of these are of the outstanding kind—good enough to go to the head of our best herds. As this will be the last good sale of the year it behooves you to get your boars and this will be an excellent place to buy them In recent letter from Will Sells he says, "I have had quite a few breeders at my place since you were here and they say these are the best thirty boars they have seen listed for a sale this fall, so you can say to those breeders who are still wanting a good boar to come to my sale or be represented with a good bid." He is selling sows of the grand champion boar, Crimson Wonder Again and also a few daughters of his. Then you will find some excellent boars in this sale that are sired by L. E.'s Col. and there are some of these that are outstanding. Several of these our best breeders can well afford to look after. Mr. Sells is listing some of the best sows he has ever sold in a sale for this great occasion. Some of these well-known boars, Evergreen Prince, the boar that helped make the reputation of the Grant Linn herd, and others will have litters at side. It will be a most

excellent place to pick up a few immune sows or sows with litters. He is also selling twenty head of fall sows by L. E.'s Col. that are hard to beat. Remember that this is the last sale of the year and we want you to bear in mind that there are some splendid boars and sows in this sale. Write for the Sells catalog at once and kindly mention The Homestead. Bids sent to our M. T. White, in care of Mr. Sells will be looked after on day of sale. See page 38.

Broughton's Big-Type Boars.

On page 46 Ben Broughton, Lake View, Iowa, begins an advertisement for his big-type Poland China boars that he is now offering for sale. He writes us as follows about them: "In regard to the boars that I am offering will say that they are the best lot of boars that I have ever offered for their age, they have the length, frame, bone, size and quality, everything except fat and the reason they do not have a great deal of that is that I have had to buy corn all summer, and then the disease was so thick I thought it best not to push them too hard, these boars received the double immuning treatment about two months ago and have since been exposed to the disease and have not taken it so that I consider them immune. If you notice the breeding in the advertisement you will see that they are strictly big type, but I have always been a stickler for quality along with the size so that these pigs are smooth and fine looking, they were farrowed in April and will weigh in the neighborhood of 200 pounds and are thrifty fellows. Their sire would have made a hog that would have weighed 1,000 pounds easily and their grandsire on the dam side weighed nearly 700 after the breeding season last January. He would have made 900 all right. If parties wanting a pig will describe just what they want I can tell you very quickly whether I have got it or not. Some of these pigs are solid black bodies and some have some white spots. Write me your wants." When writing Mr. Broughton about these boars kindly mention The Homestead.

The International Hereford Sale.

The International Hereford sale to be held at Chicago, on Friday, December 5th, will afford a rare opportunity to admirers of Herefords to purchase as high-class a lot of cattle as were ever offered at public auction. It would be difficult to write better pedigrees than those printed in the catalog for this sale, and the individuals offered are fully as good as the pedigrees indicate. The offering consists of fifty-two head, which number is about equally divided between males and females. To anyone looking for a herd bull, it will afford him a rare opportunity to compare at close range, individuals of various lines of breeding. The bulls that will be offered have been carefully selected, and it would require considerable time, and many miles of travel to see such a collection of bulls as this will be. The female offering consists of a very choice lot of cows and heifers that anyone might be proud to own. C. T. Bailey, Lowell, Ind., will offer five head, two of which are bulls, and three females, all of which are sure to please prospective buyers. Frank Bieth, Joliet, Ill., offers two Polled bulls. These specimens should be a great attraction for admirers of Polled cattle. The veteran breeder, Thomas Clark, Beecher, Ill., offers two grand cows with calves at foot that would look good in any herd. W. A. Dallmeyer, Jefferson City, Mo., will sell two bulls and two heifers. His offering is especially attractive inasmuch as he will sell Grace Premier, the senior yearling heifer that stood third in the American Royal show. The bulls he is offering should not be overlooked. W. J. Davis & Son, Jackson, Miss., offer two bulls by Point Comfort 14th. These two bulls are half brothers to the bull calf that sold in the American Royal sale for $1,975, and will make two excellent herd bulls for someone. S. J. Douthitt, New Castle, Ky., sells two bulls by Sir Donald 12th, and there need be no fear of "going wrong" on either of these. H. J. Fluck, Goodenow, Ill., will sell three females two of them especially strong in the blood of Blackstone and Peerless Wilton. Giltner Bros., Eminence, Ky., offer four head, two bulls and two cows of special value. Thos. Graves, Bunker Hill, Ind., offers a senior yearling bull that someone will be proud to own. J. V. Hill, Roundhead, Ohio, consigns three cows, that will do credit to his herd, and make someone valuable breeding cows. Luce & Moxley, Shelbyville, Ky., will sell two bulls, one by Prince Rupert 8th; the other by Don Perfect. Both of these are very promising young bulls, and their breeding should suit the most discriminating buyer. Louis Oltmanns, Rock Falls, Ill., will sell a senior yearling bull that is the grandson of Dale and Disturber; also a valuable breeding cow, sired by Disturber. Pres. Postle, Belle Center, Ohio, offers a very promising yearling bull by Perfection Fairfax 2d. C. E. Puckett, Warren, Ill., consigns three bulls that are strong in Anxiety blood. J. C. Robinson & Son, Evansville, Wis., consign a two-year-old show bull, Bonnie Lad 28th, and anyone looking for a high-class herd bull should not overlook this bull. They also consign two heifers and a bull calf by Bonnie Brae. Smith & Wilson, Decatur, Ind., will sell two young cows that are especially good individuals and well bred. J. E. Thompson, Martinsville, Ill., will offer a cow by Prime Lad 16th, that is good enough to make a valuable cow in any herd, and a bull by Prince Rupert 8th, that has proven himself a great sire. Also he is offering a two-year-old Britisher bull. J. H. & J. W. VanNatta, LaFayette, Ind., will sell a two-year-old heifer by Polly's Lad, and out of one of their best Roderick cows; a bull by their two-year-old show bull, Diamond Donald, and a heifer by Tippecanoe. Mr. H. N. Vaughan, Stronghurst, Ill., offers a Polled bull of exceptional merit. C. A. Watson, Apple River, Ill., will sell a grand breeding cow by Dandy Right and a heifer and a bull by his noted herd bull, Masquerader. For catlogs address Secy. R. J. Kinzer, 1012 Baltimore Ave., Kansas City, Mo.

Nash's Great Boar, Big Hercules.

The writer called on J. T. R. Nash & Son, Minden, Neb., a few days ago and looked over the Poland Chinas. This is one of Nebraska's best herds. As good a lot of twenty spring boars as we have seen all season we saw here. There were many that would weigh 300 and they are big and long and smooth. They are sired by Gold Medal. The thirty gilts are also mostly by him and they are sure a fine lot. They are mostly from sows by Chief Wonder and they look good. The great boar, Big Hercules, is doing fine. He is just a little the best boar we have seen for some time. Mr. Nash has none of his get, as he purchased this boar last spring, but he is bred to produce well, being sired by one of the best Expansion boars that Willey has bred in several years and his dam is sired by Big Columbus, the sire of Columbus, the 1912 champion boar at Nebraska and also the sire of The Big Orphan, the 1913 champion. This boar, Big Hercules, will be as big as either of these boars, his dam is a wonderfully good sow, and she was also the first prize under six months gilt at the fair three years ago. Mr. Nash will make a winter sale of these good gilts. His date is not yet set, but we just want to say that there will be no better places to buy bred sows this winter. There are others that are probably as good, but none better. Just keep this sale in mind, and watch for further announcemens in The Homestead.

Mousel Bros. Coming Hereford Sale.

An item of special interest to all stockmen but to breeders of Hereford cattle in particular will be the announcement of the forthcoming sale of Hereford cattle that will be made by Mousel Bros., Cambridge, Neb., on January 28th. The date formerly claimed for this sale was December 30-31st but they have decided to move the day up about a month. Those that have kept abreast of the times are familiar with the class of cattle that will be offered by these gentlemen, but to the newer men, and there are many of them, we wish to say that this herd is one of the better herds of a continent. It is a herd that has sent forth cattle that have ranked at the top among all the good ones, and they have produced bulls of the very highest order and that have headed herds of the greatest note, owned by stockmen of ripe judgment. The writer is especially familiar with this breed of cattle and with this herd, and we want to say to our readers that there will be an opportunity on the 28th of next January to get select breeding stock for good herds already well established, and there certainly will be ample opportunity for the new man to get the sort of cattle that he will need. A few daughters and a number of sons of the great Beau Mischief will be included. This bull has been bred to produce, and he does. His ancestry for generation after generation have been the best of their respective families, and the grand culmination is Beau Mischief. There are other good sires represented. The future of the cattle business is bright. The future of the Hereford business is exceptionally promising, and with ordinary success, one will be positively assured of abundant return on the investments made on that date. Parties interested will do well to write early that they may get the catalogs as soon as off the press. Address a postal today, and watch for further announcements in The Homestead.

Gregory Farm Percheron Sale.

The bare announcement that the annual sale of Gregory Farm Percherons will be held at White Hall, Ill., Tuesday, December 9th, should be an all sufficient statement to attract the attention of the draft horse fraternity, as these events, each year are recognized as of outstanding importance. For the coming sale Mr. Corsa is offering some exceedingly attractive things. The list includes thirty-eight mares and fillies and four studs, two imported horses and two colts by the champion Carnot. There are ten head by Carnot, nine fillies and one stud, all with the Gregory Farm quality. Eleven imported mares, all bred and showing safe in foal, are cataloged, and include some of the most attractive matrons that have ever been offered at Gregory Farm. Ten head of yearling fillies, six of them by Carnot, including winners at the International and in the Percheron Futurity show, form a collection that cannot fail to attract attention of buyers sale day. Particulars regarding much of the animals cataloged for this sale will appear next week. Suffice it to say at this time that Mr. Corsa is living up to his established reputation for furnishing a top lot of horses, and the public will be well repaid by being at White Hall December 9th. Each succeeding crop of colts from Carnot but serves to make his reputation as an oustanding sire more permanent and gives further demonstration of the wisdom of Mr. Corsa in placing this horse at the head of his band of mares. In the matter of sons and daughters of Carnot and mares bred to him, the opportunity will be afforded at the coming sale to secure more of his blood than at any previous time, something that should not be overlooked by the buyer. The preliminary announcement of this sale appears on page 41. Look it up and write for a catalog today to W. S. Corsa, White Hall, Ill., mentioning The Homestead. This sale comes the day preceding Robison sale at Leslie Farm, Pekin, Ill., and there will be ample train facilities between the two sales.

Trumans' Sale of Imported Shire Mares.

Forty head of imported Shire mares will be offered at public sale at Trumans' Pioneer Stud Farm, Bushnell, Ill., Thursday, December 11th, the week following the International Livestock Exposition. These mares have all been selected from the leading studs of England, and have back of them the best blood lines known to the breed. No firm or set of men know the English Shire horse like the Trumans. More good Shires are handled each year at the Bushnell establishment than by all other importing firms combined. The best that England produces is yearly secured by them, largely through the efforts of the president of the company, J. H. Truman, who lives at Whittlesea, England, and who is recognized on both sides of the water as the leading authority on the sturdy English drafter. Included in this sale are some outstanding mares that came over late this fall, as well as all of the winners and champions shown by the Pioneer Stud Farm this year at the Iowa, Minnesota, Indiana and Illinois State Fairs, and all of their International winners. The mares run in ages from fillies to mature mares, and nearly all of the latter are bred to the International grand champion, Lockinge Henquist. The Messrs. Truman having been making sales of imported Shire mares since 1882, and they state confidently that at no sale have they ever presented a better lot of mares. Many of these mares will be on exhibition at the International Livestock Exposition at Chicago the first week in December, and the buying public will do well to look them over, as they will stand inspection. They are the Truman kind, which means all that is good in draft horses, and they are all backed up by the Truman guarantee, which is the most liberal and thoroughly reliable in every particular. The catalog tells the story, and is handsomely illustrated. Send for it today to Trumans' Pioneer Stud Farm, Bushnell, Ill., mentioning The Homestead when you write and watch these columns for further particulars.

Chas. H. Murray's O. I. C.'s.

One of the largest herds of O. I. C. swine in Nebraska is owned by Chas. H. Murray, Friend, Neb. Mr. Murray has been breeding good O. I. C.'s for a number of years, and has been keeping his hogs immune and so has suffered practically no loss from disease and therefore has a fine herd of stock to select from. Mr. Murray made the banner bred sow sale of the West last winter, at which time breeders proved their appreciation of the class of stock Mr. Murray puts up. Right now this enterprising stockman is offering a few fall yearling boars, some very choice spring and early summer boars, also some select-bred sows and gilts and a lot of fall pigs of either sex. Those of our readers in need of a boar for a lot of hard use will do well to buy one of these fall boars. Those that will have a little less work will be pleased with an early spring boar, and those that live long distances and wish to get choice breeding stock and at the same time save express as well as first cost will be pleased with the summer boars or the fall pigs. Two new boars have recently been added to the herd. One is a grandson of Combination and the other a grandson of Keep On. These boars are being used on daughters of U. S. and Fairmont Chief. These last two boars are well known over the country and are certainly boars that have done a great work in the Murray herd. Sows of this mating should be mighty good property, and we believe that bred sows will be exceptionally high in February and March, and we would suggest buying as early as possible. The country faces the best hog market that we have in all probability ever known, and early buyers are the ones that will profit by this raise in prices. These fall pigs are choice stock, and if one has limited capital and can wait for them to grow, there is absolutely no way to get a foundation of good stock for as little outlay. Mr. Murray is a good man to do business with, and we recommend his stock. Write at once and mention The Homestead. See advertisement on this page.

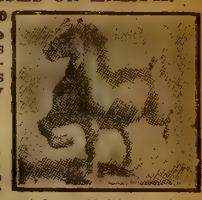
Holstein-Friesian cattle, at a recent Michigan public sale, sold at prices ranging from $55 to $790 each, and an average of $234.

Ask your neighbor to subscribe for The Homestead.

TOO LATE TO CLASSIFY.

BELGIAN EMPORIUM OF AMERICA

LARGEST COLLECTION OF BELGIAN DRAFT HORSES ON EARTH.



ALSO twenty Choice Percheron Stallions. The fall importation of 100 head, the second importation for 1913 swells the number on hand to 175 stallions, mares and colts. Many Prize Winners; Many Descendants of Prize winners, All Choice animals. We are Farmers and Stock Breeders; Twenty-eighth year in the Belgian horse business. Each year adds to our strength, and now we can defy competion in Quality, Quantity and Prices.

4 FARMS ALL ADJOINING; 7 LARGE BARNS.

Our railroad facilities are fine. Fairfax is on main line of C. & N. W. Ry.; also on Marion, Ottumwa and Kansas City Division of C. M. & St. Paul Ry. Eight miles from Cedar Rapids; 40,000 inhabitants, telephone from Cedar Rapids for auto or team to meet you at Interurban, car every hour. Farms 2 miles from Fairfax, 3 miles from Interurban. Free catalog, 100 illustrations.

H. LEFEBURE & SONS, - - - FAIRFAX, IOWA

Kent's Famous Iowa Herd CHESTER WHITES

WON nearly 400 ribbons in 1912 and 1913. Undefeated this year on aged herd owned by me, and aged herd bred by me, and aged sow class winning first champion and grand champion everywhere shown. Undefeated on get of sire also, except once. With over 400 head to select from of the above breeding I am prepared to fill your orders for anything you want from a state fair prize-winning aged boar down to pigs at weaning time at prices made to sell. It will pay you to write me for prices and the way I will ship those hogs before paying for them, or come and see them. Mention The Homestead. THOS F. KENT, R. 2, WALNUT, IOWA.

TAKE NOTICE! 35 CHESTER WHITE GILTS FOR SALE

BRED to farrow in March. Bred to such hogs as Lewis E., Col. Evans, Nagle's Kind and Right You Are. Do not fail to place an order for from one to five of these bred sows. Also 35 fall pigs for sale. Buy a trio of these pigs. No akin. Address, mentioning The Iowa Homestead,
E. L. NAGLE & SON - - - - - DEEP RIVER, IOWA

DUROC JERSEY BOARS AND GILTS

I HAVE a choice lot of large, heavy-boned boars and gilts sired by Audubon Col. (by C. & E.'s Prince of Cols.) and out of sows by Crimson I Am, Long Chief D., Attraction and R. H.'s Prince. I will breed gilts to Lucy Wonder's Col. (a half-brother to the grand champion boar Disturber). Come and see me, or write mentioning The Homestead. CHAS. W. NOBIS, HANOVER, ILLINOIS

CENTRAL IOWA HERD OF CHESTER WHITES

FOR SALE 40 spring boars sired by the following boars: Iowa Pride, Royal Banner, Barr & Rae's Pathfinder and Pathfinder 2d. Will also sell Iowa Pride sired by Frank, the grand champion boar 1913 at Iowa State Fair. Prices reasonable. Address G. O. SATRE, JEWELL, IOWA.

Murray's Extra Choice IMMUNE O. I. C.'S

STILL have a few choice fall yearling boars; also some spring and early summer boars. An extra choice lot of bred sows and gilts. Daughters of U. S. and Fairmont Chief bred to two of the best herd boars I could possibly find. Also some fall pigs, either sex for sale. Everything that I ship is first class. You will do well to write immediately.
CHAS. H. MURRAY - - FRIEND, NEB.

Slepickas' Immune O. I. C.'s

BIG-BONED, stretchy boars of the very best breeding, all immune are for sale at farmers' prices. Sons of Wilber O. K. and Grand View Choice offered. Nothing better. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

25 BERKSHIRE BOARS 25

EVERYTHING immune. Boars will weigh from 150 to 275 pounds. Sired by Sunrise, Value A and Fenton Rival. Extra good boars from $25 to $35.
A. A. KADING - - - FENTON, IOWA

CHOICE CHESTER WHITE MALES

FOR SALE, weighing from 200 to 250 pounds Just in stock condition. Sired by Michigan Chief, an 800-lb. boar; extra good bone. Price $30 if taken soon.
J. T. SCARFF - - - - SALEM, IOWA

"QUALITY" IN DUROC BOARS AND GILTS

BY Col. Kruger, Defender's Likeness, Model Chief I Am and Prince A.'s Col., first prize senior pig International 1912. Price $25 to $35. Address
A. NEVINS & SON, MODESTO, ILLINOIS

O. I. C. BOARS

OF the big, smooth type for sale. Address
ALLEN BROS. - RUSSELL, IOWA.

WM. H. NOLIN, MONROE, IOWA. 25 **Poland China boars** for quick sale, sired by Big Standard and Prospect. Also offer former herd boars, Big Standard and Giant Lad. Write me.

SIX good, heavy-boned, well-belted **Hampshire boars,** weighing 175 to 200 lbs. ea., at $20 to $25. One yearling boar $50. Edw. Dooley, Selma, Iowa.

MAN wanted to grow pure Duroc Hogs on his own farm. We start you free. Riggs Razorback Hog Ranch, Greenland, Arkansas.

GREGORY FARM'S ANNUAL SALE OF
PERCHERONS
WHITE HALL, GREENE COUNTY, ILLINOIS,
TUESDAY, DECEMBER 9, 1913

YOUNG MARES and STALLIONS BY THE CHAMPION..... CARNOT 66666 (66666)

MARES BRED to CARNOT, both imported and American bred. 40 HEAD will be offered, 38 mares and fillies and 2 stallions, one by Carnot and the other a young imported horse. These horses will all have the Gregory Farm stamp of quality and breeding, and we invite your attendance sale day, confident that the offering will please you in every way. Cols. Woods, Jones, Seeley and Branson, Auctioneers. The catalog will be sent if you mention The Homestead and address

W. S. CORSA, WHITE HALL, ILL.

Attention is called to the Percheron sale of A. L. Robison & Sons, Pekin, Illinois, Wednesday, December 10, 1913.

HOMEWOOD STOCK FARM
Our regular Fall Importation of
PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

ARRIVED in October, and are now on sale at our barns. The stallions are mostly two year olds and the mares are yearlings and two year olds. In addition we have on hand some extra weighty three and four-year-old stallions, both imported and American bred, from which to make selections. We guarantee all our animals in every way, and sell under a 60 per cent breeding guarantee. Horses priced as low as is consistent with good quality and rich breeding. Write us today.

SEE OUR EXHIBIT OF SIXTY STALLIONS AND MARES AT THE INTERNATIONAL THE FIRST WEEK IN DECEMBER.

S. METZ & SONS, HOMEWOOD, ILLINOIS

Homewood is 23 miles south of Chicago on Illinois Central railroad, with trains every hour.

The BEST IMPORTED STOCK

Choice big mares and splendid ever-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW! V. W. HARMS, FAIRBURY, ILLS.

IRVINEDALE FARM BELGIAN HORSES

IMPORTED and home-bred stallions and mares. Good ones for those who want high-class stuff and cheaper ones for farm buyers at farm prices. Stock for sale at all times. Public sale February 19th. Ankeny is ten miles north of Des Moines on the C. & N. W. and Ft. D., D. M. & S. Interurban. Address
CHAS. IRVINE - - - - - ANKENY, IOWA

YOU WILL WISH TO
Purchase Percherons

when you see the Percheron exhibit at the International. 655 Percherons, the pick of the world's studs, will be shown. Come. Train your eyes by looking at the best types. Meet the leading Percheron breeders, and acquire information at first hand

PERCHERON SOCIETY OF AMERICA.
Wayne Dinsmore, Secretary.
U. S. Yards - - Chicago, Ill.

IMPORTED AND HOME-BRED
PERCHERON----BELGIAN AND SHIRE
STALLIONS AND MARES

Ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from. **A. Latimer Wilson - - Creston, Iowa**

HART BROS.'S NEW IMPORTATION
PERCHERONS AND BELGIANS
arrived Oct. 8, 1913. The best lot of 2-year-olds brought over his year. Some will weigh 1900 lbs. Great big fellows with size, bone and quality. Come see them at once. Address
HART BROS, - OSCEOLA IOWA

Percheron Stallions

FINE large 2-year-old Percheron stallion, one yearling Percheron stallion, $1,000 takes the two. Also have Hereford bull calves for sale.
H. D. CLORE - - LUCAS, IOWA

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

300 SHETLAND and Welsh ponies for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

FOR SALE

After October 15th,

PERCHERON STALLIONS
from 2 to 5 years old. **Singmaster & Walker,** at Stock Yards, Sioux City, Iowa.

OUT OF THE BEATEN PATH

Away from crowding to city barns where price has to be higher or stallion plumper, take a little trip on the quiet to my farm and see bunch Reg. Percheron studs weanlings to 4-yer; growthy, useful money-makers for you. The farm is where they are raised and where you ought to buy them.
FRED CHANDLER
Route 7, Chariton, Iowa

GET YOUR REGISTERED

ROAD and draft stallions and mares of the breeder at first cost. **E. P. Hamilton & Sons, Garden Grove, Decatur County, Iowa.** 23 miles S. W. of Chariton, Iowa, 82 miles S. of Des Moines, Iowa, at Leroy.

WANTED TO BUY,

Home bred or Imported Percheron or Belgian stallions or mares, registered and sound, 2 to 5 years old, weight 1700 and upwards. Give full description and low cash price with first letter. J. P. Franklin, Box 305, Grand Island, Neb.

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THE small gentle kind. I have them from baby ponies to grown ones, broke to drive and ride, for sale. Address
S. W. HARR - - - RIVERSIDE, IOWA

FRANK L. STREAM, Creston, Iowa. Imported and home bred Percheron, Belgian and Shire stallions and mares. All ages at reasonable prices.

A. LATIMER WILSON, Creston, Iowa. Home-bred draft stallions $250 to $650. Imported stallions cheaper than anywhere else. Come and see.

HOLBERT HORSE IMPORTING CO.

Percherons Belgians and Shires

NEW IMPORTATIONS CONSTANTLY ARRIVING

We have at any time of the year more Big Ton, High-class Percheron and Belgian Stallions than any other firm in the United States.

A. B. HOLBERT, Prop.,
GREELEY - - - IOWA

REGISTERED SHIRES AT AUCTION

SALE AT MY FARM NEAR

ANKENY, IOWA, TUESDAY, DECEMBER 9, 1913

The sale includes 6 stallions and 16 mares, from weanlings up to mature animals. All are recorded. They are a good, clean bunch, mostly of my own breeding, and good enough to go into a show ring and win prizes, which they have done several times at the Iowa State Fair. Eleven of the mares are safe in foal, most of them to Brown Prince 12326, that is also included in the sale. Most of the mares and one two-year-old stallion are sired by Stuntney King Cole III 3676 (10538), one of the best stallions ever in this part of Iowa. The younger ones are mostly sired by Oku 7984 (22654) a large drafty horse weighing 2,270 pounds. Some of these mares would not be priced under any circumstances, but on account of poor health I am compelled to close them out. Sale 6 miles northeast of Ankeny, and 2 miles west of Elkhart, at 1 P. M. sharp. Chas. Howard, auctioneer. For catalogs giving detailed pedigrees and descriptions address

J. A. SAGE - - - ANKENY, IOWA

HEISEL'S PERCHERONS

GET in line, be the first to purchase one of those big, drafty, Percheron stallions that arrived in my new importation September 22d.

Sale barns in town, located 180 miles west of Peoria, Ill., 91 miles west of Burlington, 70 miles southeast of Des Moines, 290 miles south of Minneapolis, on M. & St. L. and C. B. & Q., R. R.

E. J. HEISEL - - - - FREMONT, MAHASKA CO., IOWA

OAKLAWN STOCK FARM
Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

I HAVE a fine collection of big, rugged, heavy-boned Percheron, Belgian and Shire stallions and mares ready for the inspection of buyers. If you want the kind that has been winning at the state fairs, at rock bottom prices, see what I have before you buy. Stallions and mares of all breeds on hand. Write me for any information you may want, mentioning The Homestead.
GEORGE EGGERT NEWTON, IOWA

Imported Belgian Horses

I HAVE on hand a large collection of imported Belgian stallions and mares that have size, heavy bone and quality. Some extra good two and three year-old stallions and a gr and bunch of mares and fillies. Mares are all in foal to imported stallions. All of my prize winners at the recent Iowa State Fair are for sale. I can show buyers more horses for the money than my competitors. Visit or write me your wants mentioning Homestead. Farm ½ mile from town.
R. F. FRENCH - - INDEPENDENCE, BUCHANAN CO., IOWA
Located on the Rock Island and Illinois Central railroads.

HORSES AND JACKS.

WILKINSONS' IMPORTATION

A MAGNIFICENT AGGREGATION OF

SHIRE and PERCHERON STALLIONS and MARES

THE CREAM OF THE OLD COUNTRY

ARE NOW IN OUR BARNS AND READY FOR INSPECTION

OUR importation has just arrived. It is a top notch lot of stallions and mares which we ourselves selected from the best breeding farms of England and France. Some of them have been prize winners, and all of them are good enough for the show ring. They are absolutely the best horses we could find, and no importer can buy better. We want buyers to come and see them and our home-bred stock. Twenty supreme quality, heavy-weight stallions of all ages—prize winners in America and Europe. Twenty-five mares of real draft type, most of them of breeding age and safe in foal to an imported stallion. We beat the world in quality on these horses, and now we are going to beat the world on prices. We can do it. We bought them right. We bought them direct and have no commissions to pay. We have no salesmen to divide with. We give you the benefit of these savings. Come and see the horses and we will prove every word. We are 17 miles east of Des Moines, with trains every hour over the Interurban, or the main line of the Rock Island.

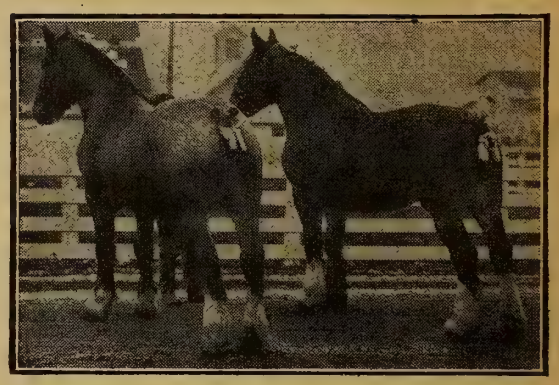
R. WILKINSON & SONS - - - MITCHELLVILLE, IOWA

TRUMANS' SALE OF IMPORTED SHIRE MARES

AT PIONEER STUD FARM BUSHNELL, ILLINOIS,

THURSDAY, DECEMBER 11, 1913

40 HEAD Including all of our SHOW MARES that have won first and championship prizes at the big State Fairs this fall and all of our International Live Stock Exposition prize winners. Yearlings to mature mares, the latter nearly all bred to the International Grand Champion Lockinge Henquist. Our first sale of imported Shire mares was held in 1882, and at no sale since that year have we offered any better lot of mares than will be presented for public appraisal at Bushnell, Ill., Thursday, Dec. 11th, during the week following the International. We will show a lot of these mares at the International, and invite your inspection. Watch for our advertisement in next week's Homestead. Cols. Jones and Keck, Auctioneers. Write for the catalog. Mention The Homestead and address



Two of the Champion Mares in This Offering

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Are now in their barns and ready for the inspection of purchasers. We have a great collection of 2 and 3-year-old imported stallions and mares and a large number of American-bred stallions and mares ranging in age from weanlings to six-year-olds. The mares are all bred to imported stallions. Our prices are reasonable. Write us before you buy.

MAASDAM & WHEELER, FAIRFIELD, IOWA

WE ARE IMPORTERS

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PERCHERON AND BELGIAN STALLIONS AND MARES

Only horses of the best quality handled. All horses young and fresh. No carried over stock. Prices, terms and guarantees right. Your correspondence solicited for full particulars. Large calendar free after December 1st.

W. A. LANG & COMPANY, GREELEY, IOWA

WOLF BROTHERS' PERCHERONS AND BELGIANS

CAREFULLY selected stallions and mares of the above breeds from the very best studs of Europe are now for sale. They are the big boned, rugged kind that are money-makers. All clean and sound and priced well worth the money. If you appreciate the good ones at moderate prices write us. Mention Homestead and address

WOLF BROS. - - - ALBION, NEBRASKA

THE BEST IMPORTED AND AMERICAN-BRED PERCHERONS, BELGIANS AND SHIRES

Are to be found in our stables. We solicit the inspection of prospective buyers, knowing we can suit the most discriminating. Our horses have size, bone, quality and the right conformation. Our prices are reasonable, terms easy and guarantee liberal. Write us today mentioning The Iowa Homestead.

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On Chicago & Alton Ry. and Illinois Traction system, 12 miles from Springfield.

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STALLIONS and mares of the highest order. Stallions weighing from 1,600 at 18 months up to mature horses at 2,200. We make a specialty of good type, action and soundness. We are natives of France,—we know where the good ones are to be had and we make our own selections. We save money in buying, we save buyers maney when we sell. Come and see our horses and be convinced We guarantee satisfaction. We are twenty-six miles west of Lincoln and sixty-eight east of Grand Island on the Burlington and seventy-five southwest of Omaha on the C. & N. W. Mention Homestead and write us. Address

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WE CAN SHOW MORE and better specimens of the sturdy Scotch Drafter than were ever offerd by any American importer and breeder. Our imported horses are the best that money and time could secure. Our American bred sorts will please the most critical. Our horses are winners wherever shown. We show our sale horses and sell our show horses. We will quote you prices on stallions and mares that will surprise you. Address

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Largest Importers of Clydesdales in the United States.

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Percherons, Belgians and Shires

NEW importation has arrived and includes the best lot of two-year-old stallions that I ever brought over. If you want to buy the kind that can win in the best shows in America and Europe write me for prices or other information mentioning The Homestead. Address **WM. CROWNOVER, HUDSON, IOWA.**

60 MISSOURI AND KENTUCKY 60

MAMMOTH BRED JACKS AND JENNETS

A STRICTLY high-class lot, 14½ to 16 hands high, with plenty of bone and quality. Everything guaranteed as represented. Priced right. I am going to make attractive prices for next 30 days. Address **J. C. HUCKSTEP, EOLIA, PIKE COUNTY, MISSOURI**

Fairview Jack and Jennet Farm

JACKS AND JENNETS

EIGHTY large-boned, black Mammoth Jacks, 15 to 16 hands standard. Guaranteed and priced to sell. The kind all are looking for. Also good, young Percheron Stallions. Reference five banks of Lawrence. Forty miles west of Kansas City on Santa Fe and U. P.

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MILLER'S 1913 SHORT-HORN IMPORTATION ARRIVED

I JUST recently arrived home from Canada with a **choice importation of young Scotch bulls and twenty head of as good heifers as was ever brought to this country.** Among these bulls is a royally-bred **Missie,** a **Nonparell,** a **Clementina,** a **Wedding Gift** and a **Countess** that are good enough to head any herd in America. Among richly-bred heifers will be found **Mina, Village Girl, Buttercup, Rachel, Beauty, Louisa** and **Red Rose** tribes and these are as good as you ever looked at. **I am offering these at private treaty** and if you want something real choice it behooves you to come and see these at once. Address

R. O. MILLER, LUCAS, IOWA.

HEMENWAYS'

Hereford Sale

STEWARD, ILL., MONDAY, DEC. 8, 1913

34 HEAD Including three daughters and one granddaughter of Masqueder and 20 yearling and 2-year-old heifers by Prime Star Grove and Ben Bolt. **10 BULLS,** including Prime Star Grove and 9 of his sons, ten to eighteen months old.

10 CLYDESDALE HORSES Three registered, including the 2-year-old stallion, ALLENDALE.

This is a draft sale of the best young things in our Hereford herd, the result of thirty years breeding. Send for catalog, mentioning Homestead,

W. E. HEMENWAY & SON, STEWARD, ILL.

Cols. Fred Reppert and C. E. Gardner, Auctioneers. Steward is 77 miles from Chicago, on the St. Paul division of the Burlington and six miles from Rochelle, on the main line of the Northwestern.

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GRADUATE of Animal Husbandry Dept. at Ames. 8 years' experience and lots of good sales. For terms and dates address

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Care of Citizens National Bank

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Has a wide acquaintance among breeders in every state in the Union. Write early for dates as I sell nearly every day in the sale season.

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Write for dates and terms.

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AUCTIONEER of Pure-Bred Stock and Real Estate. No man is better posted on pedigrees and values. I solicit your sales. 24 years' experience.

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HARLAN, IOWA.
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(If it's results you wish, let's talk it over)

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15 Years' Experience **Bell Phone 124** **Chillicothe, Mo.**

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SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

J. H. BARR, Hebron, Neb.
Auctioneer

Pedigreed live stock a specialty. Write for dates.

15 VERY SELECT SHORT-HORN BULLS--15

I AM offering **15 head of the best young bulls ever seen on one farm. Twelve of these are straight Scotch,** of the **Orange Blossom, Princess Royal, Dainty Dame, Miss Ramsden, Lancaster Rosebud, Lady Fragrant** and **Lady of the Boyne** tribes. Among these is the great 2-year-old bull, **Scottish Rex,** a Campbell Rosebud, and one of the best herd bull propositions offered in the country today. Write or come and see me at once. Address

J. G. WESTROPE - - - - - HARLAN, IOWA

SHORT-HORNS OF PURE SCOTCH BREEDING

THIRTY splendid young bulls, ready for service, toppy, the best. Such good families as Victoria, Orange Blossom, Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead.

GEORGE D. HARRAH, NEWTON, IOWA

4--Good Young Scotch Bulls For Sale--4

I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come ans see them. Address

GEO. H. WHITE, - - - EMERSON, IA.

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods,** and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address

HOWELL REES & SONS, - - PILGER, NEB.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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FIVE red Short-horn bulls ready for service for sale. Wildwood Sultan, Des Moines prize winner, among them. Come and see us or write for further particulars. Address

W. W. VAUGHN & SON, MARION, IOWA

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.

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Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best Write us your wants, mentioning The Homestead

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CHOICE Short-horn bulls at farmers' prices are the sort offered. They are sired by the good breeding bull, Improver, and out of cows of good breeding. Write to me at once for a good bull worth the money. Address **Pat Kelley, Friend, Neb.**

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address

J. E. Barr, R. F. D. 4, Davenport, Iowa.

WAYSIDE FARM SHORT-HORNS

60 BULLS ready for service, the equal of any bulls I ever bred. Herd headers. Address

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VILLAGE PARK HERD is offering some very richly-bred, attractive young bulls sired by the Cruickshank Dorothy bull, Good Knight, belonging to popular Scotch tribes, with quality and finish, and good enough to go anywhere. If you are in the market for a good bull write today for bull catalog and particulars. Mention The Homestead.

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COWS AND HEIFERS FOR SALE

WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
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TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazlmura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

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I am offering **20 choice serviceable bulls,** of the very best families, sired by my noted Blackbird bull, **Blackbird Barney** and **Elfin of Homedale.** Want to move these and will price them right. Write me at once or come and see them, Address
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ABERDEEN ANGUS BULLS

FIVE bulls about a year old for sale at reasonable prices. We invite inspection on Springdale Stock Farm adjoining this city.
W. B. SEELEY - MT. PLEASANT, IOWA

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I HAVE on hand 8 bull calves, gilt edge in quality and breeding, all eligible to record. Also a few yearling heifers for sale. Address
A. G. MESSER, GRUNDY CENTER, IOWA

ANGUS BULLS: A few bulls of desirable ages and of best breeding. Address H. W. Ehlers, Roca Neb.

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RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Lake L. Wiles, Plattsmouth, Neb.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

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TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

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MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R
JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Chariton, Iowa.**

CHESTER WHITE SWINE.

TAKE NOTICE
35 CHESTER WHITE GILTS For Sale

BRED to farrow in March and bred to such hogs as Lewis E., Col. Evans, Nagle's Kind and Right You Are. Do not fail to place an order for from one to five of these bred sows. Also 35 fall pigs for sale. Buy a trio of these pigs no akin.
E. L. NAGLE & SON, DEEP RIVER, IOWA

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

DUNBAR'S CHESTER WHITES

16 BEST boars I ever raised. March and April farrow. Cholera immuned. Prices reasonable. Also a few choice gilts for sale. Write me at once.
W. H. DUNBAR - JEFFERSON, IOWA

SHAMROCK CHESTER WHITES

FALL boars, of the right kind and build. Winter and spring pigs of both sexes. Prices reasonable and quality the best.
L. I. HANDLON, R. 3, FARMINGTON, IA.

CROSIER'S O. I. C. HOGS

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

GOOD CHESTER WHITE BOARS AND GILTS February and March farrow. Sire, Dock (22313) he by Model Boy he by Modeler. J. W. Fisher, Grinnell, Iowa.

LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

O. I. C. SPRING BOARS AND GILTS Fall pigs, both sexes.
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O. I. C. boars, gilts and sows. Good bone and ham, at right prices if taken soon. Geo. W. DeBar, Aurora, Iowa.

IMMUNE CHESTER WHITES--- SPRING and yearling boars at reasonable prices. C. F. Sealock, Neola, Iowa.

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CHESTER WHITE SWINE.

C. C. EVANS
LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and gilts sired by Combination II, that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

I SHIP C. O. D.

CHOICE big-type Chester Whites, either sex, pairs no akin, farmers' prices, crating and pedigree free.
GLENN F. RIDER, FARMINGTON, IOWA

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
J. L. Stittsworth, R. F. D. 4, Knoxville, Iowa

FOR SALE

6 **HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address**
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I HAVE twenty 200 lb. spring boars that absolutely must have a new home. They are by prize-winning sires and from an excellent bunch of sows. Write me if you wish a bargain. I will give you one.
AMOS TURNER - WILBUR, NEB.

CHESTER WHITE BOARS

FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
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MURRAY'S CHESTER WHITES

CHOICE fall and spring boars, also sows and gilts for sale. Chiefly the get of the great U. S. and Fairmont Chief.
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BIG, SMOOTH CHESTER WHITES

WE have for sale a fine lot of spring boars, real big, heavy boned fellows, also some choice gilts either open or bred. We are naming lowest possible prices, stock considered. Address
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Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

BARR'S CHESTER WHITES

VERY choice spring pigs by Highland Chief, B. & P.'s Pathfinder, Chickasaw Chief and Fancy Boy. There is growth, thrift, and size and quality in this offering and they will be sold at a reasonable price. Address
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Extra Choice O. I. C. Boars

GREAT big spring boars, weight 225 and up. Your choice while they last at $22.50 each. Order from ad. and save time. Address
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G. H. TUTT, Marathon, Iowa, breeder of Chester White hogs. Herd immuned and in good health. Big, good, and well bred spring boars for sale. Prices reasonable.

CHESTER WHITE SPECIALS. Some extra choice boars, well bred, well grown at $22.50 to $50.00. Two excellent fall boars at this price. Address Harry J. Anderson, Beaver Crossing, Neb.

ROGERS' O. I. C.'s Positively as good as any. Prices moderate. For an extra select boar, write N. R. Rogers, Peru, Neb.

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

CHESTER WHITE GILTS April farrow, weight 125 to 200 pounds. 30-day sale at $20 to $25. Address Bert A. Randell, Mt. Zion, Iowa.

FULL BLOOD guaranteed Chester White boars and sows for sale. Address Lock Box 73, Radcliffe, Ia.

IMPORTED Chester White boars for sale. $15.00 to $25.00, ready for service. Will ship on approval. E. J. Trumbauer, St. Charles, Iowa.

CHESTER WHITE SWINE.

Chester White Boars and Gilts For Sale

AS I can use him no longer I offer for sale White Cloud 20465, one of my great herd boars that has a 10-in. bone and will feed out to 1,000 lbs. He is good all over, a true breeder and easily handled. Also spring, summer and fall boars and gilts of good breeding and fine individuality. Some brood sows and gilts.
J. E. LEWIS - - - - - BRAYTON, IOWA

BOARS! BOARS!! BOARS!!!

I HAVE decided to cut prices on Chester White boars and gilts for the next 30 days. These pigs are sired by three different boars. Have the length, good bone, good backs with the very best of heads and ears. Weight from 150 to 300 lbs. If you want a boar or gilt at a little above market price, write at once. Anything shipped on approval. **Harry Hurless, Ogden, Iowa.**

30 CHOICE FALL BOARS

SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by High Style, International King, International Boy, Combination III, Village Boy and Combination's Favorite.
BRED SOW SALE, FEBRUARY 27, 1914
Please paste this in your hat. Anything in the boar line sent on approval. Address
J. L. BARBER - - - - - HARLAN, IOWA

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. Will hold a bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - FARMINGTON, IOWA

Stewart's Immune Chester White Boars

I AM offering 60 head of the best boars you have ever seen for the money, sired by my splendid herd boars Iowa Boy and Crescent. These have all been vaccinated and are immune. Write me at once for description and prices, and mention Iowa Homestead. Address
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Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - PRESCOTT, IOWA.

GRAND VIEW CHESTERS

GOOD ONES. March and April pigs sired by **Good Goods 21423** and **White Wonder 22581. Bargain Prices** for 30 days. Shire stallion and mares for sale of the best breeding. Aberdeen Angus cattle, either sex, for sale.
T. A. STEVENSON - - - SHANNON CITY, IOWA

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead,
WM. A. HOOVER, OSKALOOSA, IOWA

KENT'S IOWA HERD CHESTER WHITES

A SAMPLE of the great Iowa herd of prize winners of last year will be again on the state fair circuit. Everybody invited to inspect this great herd. They speak for themselves. Now better than ever. Orders taken at all times. Can furnish you anything you want from a state fair prize-winner down to pigs at weaning time at prices made to sell. Over 400 head to select from. It will pay you to write me for prices and the way I will ship those hogs before paying for them. Mention The Homestead.
THOS. F. KENT R. 2 WALNUT, IOWA.

SUNNY SLOPE CHESTER WHITES

160 HEAD in herd. 130 spring pigs. Choice lot of boars of March and April farrow sired by Sam B. (champion boar at Sioux City, 1910-12), Young Sam and Buena Vista Chief. These pigs are from immune sows and have all been vaccinated with simultaneous method. Immune stock with size, quality and breeding, at living prices.
W. E. GAFFEY - - - - - STORM LAKE, IOWA

AMERICAN CHESTER WHITE HERD

40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
ALDEN ANDERSON - - - - - ELLSWORTH, IOWA

CENTRAL IOWA HERD CHESTER WHITES

125 HEAD of spring pigs of both sexes to select from. Also booking orders for fall pigs to be shipped at weaning time. Have six male pigs, one year old the middle of Sept. Will ship on approval. Write or come and see me.
G. O. SATRE - - - - - - JEWELL, IOWA

DUROC JERSEY SWINE.

Davidson's Crimson Wonder Boars

I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
U. G. DAVIDSON - - - - - ALGONA, IOWA

REAL TOPPY HERD HEADING BOARS

SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
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S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.

HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

DUROC JERSEY BOARS

I HAVE a fine lot of big heavy-boned, smooth boar pigs farrowed in March, sired by I Am A Crimson Wonder II, Wonder's Model and Joe's Col. (by Proud Col., dam by Model Wonder) that I am pricing very reasonable. Write me your wants, mentioning The Homestead.
JOHN KREBS - RIVERSIDE, IOWA

CLOSING OUT DUROC BOARS

A FEW very choice Duroc boars of spring farrow for sale at right prices. Best of breeding, and only our best saved for breeding. Address
F. E. MERRICK, OSCEOLA, NEBRASKA.

W. W. Scott, Calamus, Ia., breeder of Duroc Jersey hogs. Spring pigs of both sexes for sale. Will weigh 200 lbs. or better. Bred sow sale in Jan.

DUROC JERSEYS

I HAVE the big kind of Duroc Jerseys, with heavy bone and easy feeding quality. I have a fine lot of sows I am breeding for the trade this winter. Write me for any information or prices you may want. Address, mentioning Homestead,
HUGH M. FICKE, LONG GROVE, IOWA.

DUROC JERSEY BOARS FOR SALE

WE still have some choice big growthy fellows weighing 175 to 200 pounds all vaccinated with the double treatment. Come and see them or write to me, mentioning The Homestead.
D. Nauman - - - - West Liberty, Iowa

100 Immune Duroc Boars

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address
F. C. CROCKER - FILLEY, NEB.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - DAVIS CITY, IOWA.

DUROC JERSEY BOARS

IMMUNED BY GOVERNMENT EXPERT

SPRING pigs, 200 pounds and over, by Jumbo Wonder (son of Crimson Wonder Again) and out of big, well-bred dams. Write me. Address
GEORGE T. WHITE, Dallas Center, Iowa.

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcolm, Nebraska.

DUROCS March pigs for sale. Long, heavy-boned boars and gilts of good strains. Jos. Shradel, Riverside, Iowa.

DUROC JERSEY SWINE.

Duroc Jersey Boars and Gilts

WE have fifty extra good boar pigs sired by Model Wonder, Proud Col. and Wonder's Model, all Iowa State Fair winners and sires of winners, and out of sows of the most approved blood lines. These boars have size, bone, quality, combined with breeding that is right. Our herd has been producing Iowa State Fair winners every year for the past five years. Every pig we offer is of the same breeding as our prize winners. Prices reasonable. Mention The Homestead when writing us. Address
HANKS & BISHOP - - - - - - NEW LONDON, IOWA

30 HIGH-CLASS DUROC JERSEY IMMUNE BOARS---30

I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, A.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols, Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
R. F. AIKMAN - - - - - AUDUBON, IOWA

40—BIG-TYPE DUROC JERSEY BOARS—40

SIRED by Crimson wonder Chief, San Salvador and Cherry Chief, and from sows sired by Crimson Wonder I Am, Belle's Colonel, Proud Colonel, Blue Ribbon Chief and other noted hogs. These boars are March and April farrow and weigh 160 to 200 lbs. They have good neat head and ears, broad arched backs, thick deep hams, are a deep cherry red in color and as smooth as a ribbon. Price $20 and $25 each.
R. H. DE VAULT - - - - - BLOOMFIELD, IOWA

40 DUROC JERSEY BOARS FOR SALE 40

I AM offering eight cracking good fall boars sired by **Col.'s King,** and 32 extra choice spring boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address
F. H. DICKEY, EMMETSBURG, IOWA

COCHRAN'S DUROC JERSEYS

A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

12---DUROC JERSEY FALL BOARS---12

I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freed's Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
LEWIS KREITZBERG - - - - - GRISWOLD, IOWA.

MODEROW'S EXTRA SELECT IMMUNE DUROCS

NEAR fifty boars for sale. Mostly spring boars, but few of fall farrow. They are sired by the $800 B. & G.'s Wonder, also the $660 Chief Select 2d, the great and only Blue Ribbon Model, and a few other noted sires. They are from one of the greatest herds of sows in the country. These grand young boars for sale right. Mention The Homestead and address
WM. MODEROW, BEEMER, NEBRASKA.

KOENIG'S DUROC JERSEYS

HERD-HEADING boars from great sires, among them Echo's Chief, Red Model by Golden Model, King's Crimson by I Am A Crimson Wonder 2d, and a few by Golden Model 2d. They are out of choice sows and will surely make good. Write or visit me. Mention The Homestead.
H. H. KOENIG - - - - - DE WITT, NEBRASKA

Duroc Jersey Boars From Van Patten's

BOARS by the great Uneeda Crimson Wonder and Model Wonder, also a few by Queen's Col. These are from one of the oldest established herds of America and from a grand lot of sows. These herd heading boars go at farmers' prices. Let us have your order at once. Address
G. VAN PATTEN & SON - - - - - - SUTTON, NEB.

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols, and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you If you come to the farm. Address
J. B. ASHBY - - - - AUDUBON, IOWA

Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model 11., Crimson Ohio Chief, Crimson Chief 11. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - FREDERIKA, IOWA

50 Immune 50 DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

DUROC JERSEY BOARS

I HAVE a fine lot of spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - VICTOR, IOWA

IMMUNE DUROC BOARS FOR SALE

VACCINATED by double method. Four head of fall yearlings and 25 big, growthy, spring boars. Herd boars, Clover Dale Chief 117753 and Lincoln Model 133869. Dams of best breeding. Visit or write
U. G. BURTON - STORM LAKE, IOWA

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Supberba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - RYAN, IOWA

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D Getken, Cozad, Nebraska.

DUROCS---April Pigs For Sale

Good lengthy boars and gilts of the best breeding.
L. L. WOODS - - - GRINNELL, IOWA

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - AMES, IOWA

MENAUGH BROS. Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

COL. BRED DUROC BOARS

I HAVE a grand lot of big, smooth March and April boars largely sired by **Success** (by S. E.'s Premier Col.) and out of sows by Browning Boy (a grandson of Chief's Col.), also a few by S. E.'s Premier Col. and Captain Model. My pigs have size and quality and they will please you. My prices are low for the quality of boars I have. Mention Homestead when writing.
C. A. MOULTON, MORRISON, ILLINOIS

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Pride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Sittyton Duke the 6th for sale.
B. W. LITTLE, R. 7, JANESVILLE, WIS.

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

15 HEAD IMMUNE DUROC JERSEY BOARS

I AM offering 15 good boars. All **vaccinated and immune.** Sired by I Am Muncle. These are good boars. Price $25 and $35. Send your order at once. Address **J. F. Kerns, Holstein, Iowa.**

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

60 EXTRA CHOICE CHOLERA IMMUNE DUROC JERSEY BOARS

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select** and fifty extra choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Everything in herd vaccinated. Will guarantee everything to live 30 days or will refund one half of purchase price. Ready to ship at any time.
H. S. FAIN EMMETSBURG, IA.

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - - MARQUETTE, NEBRASKA.

Sunnyside Duroc Jersey Boars $25 to $40

IMMUNE boars of spring farrow, safe to go into any herd. I have 35 of them that are big, husky, strong boned fellows, and from the most popular lines of breeding. First orders get first choice.
M. A. M'WILLIAMS - - - - R. F. D. 1, WALL LAKE, IOWA

TWO GREAT HERD BOARS BY CRIMSON WONDER AGAIN

ONE of them the 1st under-year boar Nebraska State Fair. He headed the herd of Durocs that won six firsts. The other is a son of H. A.'s Queen. Also farmers' big-boned boars at farmers' prices. Address
H. S. ALLEN - - - RUSSELL, IOWA

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of su ch sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - STORY CITY, IOWA

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$25 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - - IRETON, IOWA

BLACKBURN'S Immune DUROC BOARS

TWENTY-FIVE very choice spring boars by Crusader Col. and from an excellent herd of sows. These boars are immune and fully guaranteed. Absolutely first-class in every way. Your money back if not satisfied. $25.00 each while they last. Mention The Homestead and address
J. R. BLACKBURN - - - ORD, NEBRASKA

25 Immune Duroc Jersey Boars---25

I AM offering twenty-five head of good spring and fall boars sired by such well-known boars as: Prince The Col., Volunteer, Freed's Col., Model Advancer, Wonderful Crimson Lad and Dusty Wonder. I am pricing these boars at $25 to $50. Address, mentioning Iowa Homestead
E. A. CALKINS - - - RUTHVEN, IOWA

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - ALEDO, ILLINOIS

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfield's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model 11., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - Rose Hill, Iowa

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

25 DUROC JERSEY BOARS 25
25 DUROC JERSEY GILTS 25

LARGE, growthy, heavy bone. Everything guaranteed as represented. Best breeding, $20 to $30. Correspondence solicited. Address
W. J. HARTUNG - MAXWELL, IOWA

IMMUNE DUROC JERSEY BOARS

I AM offering **18 head** very choice boars, mostly sired by **Gold Col. 98857,** out of my best sows, all vaccinated, immune and ready to ship. Write me for description and price.
PETER JOHNSON - DICKENS, IOWA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - WOODWARD, IA.

BIG DUROCS

by J. E.'s Model King by King The Col. Write for prices at once.
J. E. HENSLEY - CENTRAL CITY, NEB.

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

15 Immune Duroc Jersey Boars.

I AM offering 14 good spring and 1 good fall boar for sale, sired by Volunteer 2d and Chief Col. Again. Price $30.00 to $40.00. Come and see me at once or write
Wm. BAUER - - - AUDUBON, IOWA

Thompson Farm Duroc Jerseys

TEN big-boned fall boars of the best breeding Will guarantee all to be breeders and to suit purchaser. For full information call or write
WILL THOMPSON, R.F.D.2, JESUP, IOWA

Special Prices on Durocs

Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

DUROCS

FEBRUARY and March males and gilts, lengthy and heavy boned, at reasonable prices. B. B. McAlister, Blakesburg, Iowa.

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA
J. L. Thatcher, Manager.

BERKSHIRE CULLS

$8.50 per cwt.

MY butcher just bought my pure-bred **CULLS** at $1 advance over the market. Must be pork makers, eh? Why not try one of my best boars? Have 32 spring boars, rugged, stretchy fellows, 135 to 200 pounders at $20, $25, $30 and $35. Sows, one or a car load. Will ship C. O. D. Address
M. A. O'Brien, Route 2, Reedsville, Wis.

POLAND CHINA SWINE.

COOPER'S BIG-TYPE POLAND CHINAS----Guaranteed Cholera Immune

BRED GILTS AT FORTY DOLLARS EACH

WE are going to sell a limited number of March and Agril gilts bred for March, April or May farrow at this price. They are sired by and bred to **Big Bone 2d, the 1,000 pound son of Big Bone; Chie Leader, a 700 pound yearling; Big Expansion, the 900 pound son of Dorr's Expansion; Giant Look** and other boars of big-type blood lines. **The dams are sows weighing from 500 pound yearlings up to sows of over 800 pounds. LISTEN!** if you want some of these gilts send your check, do not ask us to measure them or give you a detailed description. We do not have time to answer so many inquiries. All are good marked—no defects. **If they do not suit send them back and we will return your money. We will refund your money if they die from Cholera, o eplace with one of equal value.** Send your order at once if you want them, as they will not last long at this price. Address, mentioning The Iowa Homestead, **W. H. COOPER, HEDRICK, IOWAr**

FESENMEYER'S BIG-TYPE POLAND CHINA BOARS

I AM now offering **75 head of fall boar pigs** sired by the world-renowned **A Wonder** and **Big Joe.** These are out of my very best **Giantess, Long King, A Wonder** and **Big Joe** sows. You can buy one of these fall pigs now and you will save from one-half to two-thirds what you will have to pay for a boar next season. Buy these now and save your money. Address

HENRY FESENMEYER - - - - CLARINDA, IOWA

BERKSHIRE SWINE.

BERKSHIRES

BOARS in service are Longfellow's Premier by Premier Longfellow 68600, Baron Peabody 10th by Baron Duke 88th 91888. Forty fall and spring boars for sale. Mention Homestead and address
GEO. PORTER - STANTON, NEB

22 BERKSHIRE BOARS FOR SALE

I HAVE two splendid fall boars and 22 good spring boars for sale. These are sired by Rob Roy 10th, a prize winner at Des Moines, and Model Master 2d. Write me at once for prices.
H. L. KEMP - - - HARLAN, IOWA

BERKSHIRE BOARS FOR SALE

I AM offering some good fall and spring boars at farmers' prices. Write me at once and mention Iowa Homestead. Address
JOHN C. MILLER - HARLAN, IA.

Mention The Homestead when writing.

BERKSHIRE SWINE.

Honeywell's Berkshires

SOME very fine spring boars, nicely bred, good individuals that are for sale at farmers' prices. Mention Homestead and address
J. K. HONEYWELL - LINCOLN, NEB.

BERKSHIRES--We can supply your wants in choice boars and sows of April farrow. Pairs and trios not akin, representing as good a line of breeding as you will find. Will please you or no sale. Orlando Jacobs & Son, R. 4, New London, Iowa.

EVERY animal cholera immune. Berkshire hogs of most popular strains. Yearling herd boar and spring boars at farmers' prices. Geo. M. Fox, Prop., Village Side Stock Farm, Dallas Center, Iowa.

BERKSHIRE BOARS FOR SALE. Some fine spring boars, nicely bred and good individuals. Cholera immunes. Write for prices. Fred Divelbess, Logan, Iowa.

30 Immune Poland China Boars 30

I AM offering a splendid lot of spring boars for sale, sired by **B. B.'s Orphan,** a son of the 1060-lb. boar, **The Big Orphan 422816;** grandam A Wonder 107353. The dams of these boars are sired by **B. B. Wonder 181689,** a grandson of A Wonder 107353. These are April farrow, great big fellows and have length, frame, bone and quality. Price $30 and $35. Address
BEN BROUGHTON - - - - LAKE VIEW, IOWA

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495. Mention The Homestead and address
DAVENPORT & MACK - - - - BELMOND, IOWA

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address
C. H. PORTER "Oakwood Farm Poland Chinas," EAGLE GROVE, IOWA

POLAND CHINA FALL PIGS AT $15.00 EACH

FALL pigs sired by the great Poland China boar, Hillcroft Model; also by Big Martin by the champion Big Tom, are for sale at $15 each at ten weeks old. These are from prize-winning sows. All of the highest order. Also some spring boars and two choice fall boars. Write me if you want something choice and worth the money. Address
G. A. KISSINGER, MILFORD, NEBRASKA

HAMPSHIRE SWINE.

MESSENGER'S HAMPSHIRE SWINE

HAVE nothing for sale at present. My herd is headed by Messenger Boy 6179, the undefeated grand Champion of 1912.
CLAYTON MESSENGER - - - KESWICK, IOWA

Sunny Slope Hampshire Swine

HERD headed by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** A few bred sows for sale. Bred sow sale February 4, 1914. Address
C. A. BROOK - - - WASHINGTON, IOWA.

HAMPSHIRE BOARS

WE offer for sale 6 grand fall boars and 12 spring boars. Best of breeding, and nicely marked. Prices very reasonable. Address
WOOD & WESCOTT - - - SHEFFIELD, ILLINOIS

NISWANDER'S HAMPSHIRE SWINE

I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudio, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion, at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address
HOWARD NISWANDER - - - - - - KINROSS, IOWA

WAYSIDE HERD OF HAMPSHIRE SWINE

WE have one yearling show boar, 6 fall boars (4 of them show boars) and a fine lot of spring pigs for sale. These are herd headers. If you want the best see these. Would sell Cherokee our sensational 3 year old show boar. A few registered Red Poll heifers, and Feb. and Mch. bulls for sale. Prices right. Can ship by Adams or U.S. Express. **Mike Sharp & Sons, Coal Valley, Ill.**

Excellent Hampshire Boars

A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price you can afford, write me. I can supply you. Mention Homestead.
C. P. PAULSEN - - - NORA, NEBRASKA

R. L. BOLLMAN, COAL VALLEY, ILLINOIS

Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Exposition the past five years, 250 head on hand: 100 spring pigs. Stock all ages for sale. I breed the kind that win, I can fill your order for either show or breeding stock. Write today. **R. L. BOLLMAN, COAL VALLEY, ILLINOIS.**

HILLSIDE HERD of HAMPSHIRE SWINE

A FEW spring boars from prize-winning strains. Sec. Stone 8797. Prices right. Address
W. M. Sipherd - - Grand River, Iowa

HAMPSHIRES

A CHOICE lot of Feb. and Mch. Hampshire boars and a yearling show boar. Open sows or sows bred for early spring litters to Corrector 10491.
Geo. T. Pearce & Son - Bloomfield, Iowa.

BECKENDORF'S HAMPSHIRES

I AM offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
J. E. BECKENDORF, WALNUT, IA.

McFarland's Hampshires

A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
Billie McFarland - - - Syracuse, Neb.

HAMPSHIRE BOARS

SAME breeding as my **silver cup** winners at Des Moines, 1912. Will weigh 175 pounds and have had double treatment. Price $35 each. Guaranteed breeders. Mention The Homestead when writing.
F. T. QUIRE - - - - - SULLY, IOWA

HAMPSHIRES Choice spring boars and gilts. Best breeding. Right prices. Address
L. F. TETER - SHICKLEY, NEBRASKA

Prize-winning Hampshires Some extra choice boars. Winners Neb. and Colo. fairs. Farmers' prices. Write at once. Address C. S. Bratt, Arapahoe, Neb

HAMPSHIRE BOARS AND SOWS

WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
E. S. McCANDLESS - THURMAN, IOWA

TWIN CEDARS HAMPSHIRES

HAMPSHIRES all ages for sale, the heavy boned, cholera immune kind, all bred from prize-winning boars at Iowa State Fairs. Address
PAUL WM. JAHN - MANILLA, IOWA

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when writing. **F. O. Peterson, Galva, Ia.**

FISHER'S PRIZE WINNING HAMPSHIRES

THE sensational winning herd of the year. Won 42 prizes at the three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention the Homestead. Roy E. Fisher, Winside, Neb.

VALLEY VIEW Hampshires, either sex. Satisfied customers. Spring boars ready for service, 12-yr-old boar, sale or trade. Fred Wheeler, St. Charles, Ia.

JONES HAMPSHIRES---Some very choice stock, both sexes. Prices right. Address A. D. Jones, Litchfield, Nebraska.

IMMUNE HAMPSHIRE fall and spring boars for sale. Write for description to H. C. Mehring, Manson, Iowa.

YORKSHIRE SWINE.

LARGE YORKSHIRES Gilts bred for Aug. and Sept. farrow. Pigs not akin of Dec. and Jan. farrow. Booking orders for spring pigs. Pedigree with each sale. Prices right Address W. C. Cook, R. 42, Box 22, Ada, Michigan.

PIONEER POLAND CHINA BOARS

TOPS.

My big-type herd boar, Big Jumbo 2d, is now offered for sale. He carries a combination of A Wonder and Chief Price blood. He is big and good. Also spring boars by Bouncer, Made To Order, L's Big Bone, Big Nelson, Look's Best and Swallow's A Wonder. Dams are equally well bred. These pigs are healthy, thrifty and growthy. Will be sold at very low prices to quick buyers. Address
W. Z. SWALLOW - WAUKEE, IOWA

20 BIG-TYPE Poland China fall yearlings, passed through cholera last winter, $35 each; 15 choice spring boars $25 each; such noted sires as Chief Price, A Wonder, Long King, Big Orange, Big Ex., Sioux Chief, Big Jumbo, etc., have had a part in producing this stock. Send your order at once. Brood sow sale February 25th. Jno. H. Fitch, Lake City, Iowa.

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.
Smith Bros., Rt 2, box 76, Lawler, Iowa.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.
O. J. SATRE - - - JEWELL, IOWA.

Wayside Poland Chinas Choice fall boars, the big-boned prolific kind; also a choice lot of spring pigs. See them or write E. J. Augspurger, Pulaski, Iowa.

BIG POLAND CHINA BOARS

FALL yearlings and spring boars. Cholera Immunes. Sired by Hum Dinger, a state fair winner. **H. U. Arthur & Sons, Spirit Lake, Ia.**

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152095) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

TAMWORTH SWINE.

TAMWORTH SWINE

KNOLL SLOPE FARM offers you Breeding Stock that prove profitable. Boars and gilts, no kin, all of high quality. Express office, Iowa City, Iowa.
C. C. ROUP - - KALONA, IOWA

MAPLE GROVE HERD OF TAMWORTH SWINE

SPRING boars, weight from 150 to 200 pounds, at $20 to $25. **F. J. McKeever, Ryan, Iowa.**

TAMWORTH BOARS and good ones. Address **C. S. MULKS, RICEVILLE, IOWA.**

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS

WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale We are pioneer breeders of Nebraska. Write today
J. W. COX & SON - ARAPAHOE, NEB

MULE-FOOT HOGS

MORE premiums won in 1912 and 1913 than any herd in the U. S. Stock of all kinds for sale.
Zene G. Hadley, Box A, Wilmington, Ohio.

Mule-Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio.

BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices. Address
JOHN I. DRIPPS - SPRINGVILLE, IOWA

BIG-TYPE POLAND BOARS

ONE fall boar by Mastodon Chief. First check for $45 gets him. Thirty March and April boars weighing 175 to 225 pounds. First check for $25 gets choice. These are sired by Mastodon Chief, Big Jumbo 2d. A yearling herd boar sired by Mastodon Chief at $50. Send your check, and if not satisfied when you receive the hog, send him back and get your money. All have had double treatment and are immune. Mention The Homestead and address
E. W. KREISCHER, MT. VERNON, IOWA

30 Poland Boars For Quick Sale

THEY are by VICTOR'S WONDER by Big Victor, MOBERLY by Big Expansion, and BLUE VALLEY. They will be sold quick. Address
E. V. WAUGH - - GREELEY, NEB.

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.
JOHN C. NYRUP - HARLAN, IOWA.

POLAND CHINA BOARS FOR SALE

WE have thirty fall Poland China boars weighing 200 to 250 each at $25 to $30 each; and twenty-five spring boars at $15 each. From sires and dams that passed through the cholera two years ago. Have been a breeder of Polands for thirty years and certainly can please you. Address
J. O. Walton - - - Belle Plaine, Iowa

BIG-TYPE POLAND CHINA

MALE pigs, spring farrow, large heavy bone and very prolific strain, $18 and $20 each. Also gilts bred for spring litters. Shipped express prepaid and satisfaction guaranteed. Write
F. F. & V. G. WARNER, BLOOMFIELD, IA.

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once
A.B.Heckenlivly - - - Cozad, Nebraska

PROCHASKA'S BIG-TYPE POLANDS

FALL and spring boars at bargain prices, sired by Smooth Wonder Yet, Matchless Charmer, Pawnee Jumbo. The best of blood lines. Satisfied customers in seven different states. Try me.
J. J. PROCHASKA - PROTIVIN, IOWA

30 BIG-TYPE POLAND CHINA BOARS—cholera immune, sired by A Wonder Again, Miller's A Wonder, Pleasant View Hadley, Ring's Sensation. They are big, strong boars with length, good markings and quality. Ring Bros., Newton, Ia.

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

BIG Poland Chinas 100 boars and gilts of fall, Jan up to April farrow. Sires: Big Hadley, Big Bug Winn All. Size and quality. H. Lenz, Lansing, Ia

POLAND CHINA SWINE.

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $455 and $335 spring boars in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sow that weigh 750 and 800 pounds. We want to sell these boars and we are pricing them at from **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - **CLARINDA, IOWA**

50 Head Hancher's Big-Type Immune Poland China Boars--50

I AM offering **fifty head** of as good boars as I have ever raised. These are all **immune** and are **ready to ship.** Sired by my 1,000-lb. boar, **Smooth Wonder 2d, Chief Price Jr.** and **Chief Again Price,** the Nebraska **State Fair Grand Champion boar.** These are out of my very best sows, viz **Long Molly, Model Wonder, Long Molly 2d, Price Model 3d,** and other 700 and 800-lb. sows. These will make outstanding good boars and I am pricing them at **$30 to $50.** Get busy and order one of these right away. Mention Iowa Homestead when writing me. Address

M. P. HANCHER - - - **ROLFE, IOWA**

HALFORD'S
BIG-TYPE POLAND CHINA BOARS

I AM offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great prize-winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of Long Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address

E. W. HALFORD - - - - - **MANNING, IOWA**

30 CHOLERA IMMUNE BOARS 30

Sired by my great boar, PAWNEE PRICE,

one of the largest and best big-type Poland China boars in the state. Everything **VACCINATED AND IMMUNE.** Write me for prices and description at once. Mention The Homestead and address

W. E. ZIMMERMAN - - - **NEOLA, IOWA**

Immune Poland China Boars and Sows For Sale

I AM offering 21 head of February and March gilts, average weight 325 pounds. Sired by **Hadley Golddust, Half Ton Wonder, Sampson** and **Henry Expansion.** Will **sell open or will breed. Prices $40 to $50.** Ten choice brood sows $50 to $75. **Five spring boars $30 each.** Am closing them out. None better. Write me at once. Address

A. W. JOY - - - - **HERMAN, NEBRASKA**

An Immune Boar, Sire of Prize Winners

HOMESTEAD readers in search of one of the best Poland China boars in use anywhere will be interested in one I have for sale. Positively nothing better to be had. Three years old and fully guaranteed. Sire of the big ones. Address

L. F. REILLY - - - - **ST. PAUL, NEBRASKA**

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

MY Big-Type Poland China boars are sired by Cox's Wonder, by Rude's Giant, and out of a Long King sow and by A. Model, grand champion of Iowa, 1912, and others. I sell at farmers' prices Write me.

B. F. MARMION - - **FARMINGTON, IOWA.**

JAMES LAWLER'S IMMUNE POLAND CHINA BOARS

50 IMMUNE Poland China boars. 8 good fall boars, 42 spring boars sired by Miller's Choice 170929 bred by John Miller, and Chief Price A 173373, bred by Peter Mouw, and Giant's Equal 198449, he by Equal's Giant 184927, he by Long King's Equal 177373. Their dams include all of the best big-type breeding. They are sired by Rock Valley Chief, Expansion King Jr. 2d, Chief Price Jr., A Wonder, Big Tom and Carey's Long Wonder. Come and see them or write for prices. **James Lawler, Clare, Iowa.**

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - **R. F. D. 1, YORK, NEBRASKA**

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address **J. A. BEAUMASTER, ELMA, IOWA**

25---IMMUNE POLAND CHINA BOARS---25

I AM offering 4 choice fall boars for sale, one of which is a high-class boar and was first prize boar at Crawford county fair. The other three are also good, stretchy boars. **Twenty choice spring boars** sired by **Golddust Wonder, Long Orange** and **Defender Again Price.** These are big-boned, stretchy fellows and $25 to $35 gets these. Everything **vaccinated and immune.** Write me at once and mention Iowa Homestead. **C. M. PEDERSON** - - - - **DUNLAP, IOWA**

20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec, 1st at $15 each.

H. E. BURGUS - - - **Route 6** - - - **OSCEOLA, IOWA**

SPECIAL SALE ON POLAND CHINA BOARS

FOR the next few weeks I will make very attractive prices on twenty-five Poland China boars. These are mostly spring farrow, but a few are fall boars. They are mostly sired by Jumbo Wonder by A Wonder and are from a good line of extra big bred sows. I will save you some money. Address

FRANK G. HOAGLAND - - - - **GLENVILLE, NEBRASKA**

Easy Feeding, Heavy-Boned Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs for a time in order to make room for big crop of fall pigs. Choice of these at $25, and some less. Must sell as I am short on room. 50 excellent gilts at $25 and $30 per head, all sired by Ex.'s Wonder and Iowa's Product. Fall pigs of 1913 at $12 and $15 at weaning time. Guarantee safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - **GRINNELL, IOWA**

20 HEAD OF BIG-TYPE POLAND CHINA BOARS

OF the most fashionable breeding. Sired by King Wonder, Long King's Equal, Sterling Giant and Choice Look, out of 700 to 800 lb. sows, at farmers' prices. **J. M. SHEEHAN, STUART, IOWA.**

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Boy, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.

Not the originator, but the preserver.

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones—growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

FALL PIGS by LONG GIANT

ALSO some by Big Bone and Baird's Choice and from an excellent line of sows that I will sell at $10 to $15 per head while they last. A grand opportunity to get the blood of the best and at small cost. **G. B. Van Kleek, Central City, Neb.**

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - **COON RAPIDS, IA.**

Poland China Spring Boars

BY Again Chief Price 192035, 2d prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE, **MAQUOKETA, IOWA**

30 CHOICE BIG-TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D, 189573, a son of the great A Wonder 107353.

William Drummy - **Ryan, Iowa**

BLUE VALLEY HERD OF
POLAND CHINAS

REAL herd-heading Poland China boars of spring farrow from one of the oldest herds in the corn belt. They are principally the get of the great and only Blue Valley and Blue Valley's Orange, while a few are by the champion, Columbus. We are naming low prices to move this stock. Mention The Iowa Homestead and address **THOS. F. WALKER & SONS, ALEXANDRIA, NEBRASKA**

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big-type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for description and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - **MARATHON, IOWA**

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - **OCHEYEDAN, IOWA**

Bonny View Herd Big-Type, Big-Boned Poland Chinas

I AM offering a choice lot of boars sired by **Big Lad,** a son of Big Orange, and a few by **King Tom,** a grandson of Big Tom. These young boars are large and stretchy with plenty of bone and will make great boars. Out of daughters of Long King, Smooth Wonder 2d, Big Orange, Monarch Chief and other celebrated sires. Write me for prices and description at once. Address, mentioning The Homestead.

WM. KEEP - - - - **ATLANTIC, IOWA**

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address - - - **ROBT. A. SCHUG, COLERIDGE, NEB.**

EXTRA BIG, IMMUNE POLAND BOARS

WE have for sale a very choice lot of big, heavy boned boars, sired by Herod 2nd, and also some few litters bred by Peter Mouw. These Herod 2d pigs are headers for the top herds. If in search of the extra big, also the smooth sort, write me. Mention Homestead and address

W. H. DEIGAN - - - **RAYMOND, NEBRASKA.**

OAK PARK HERD BIG-TYPE POLAND CHINAS

30 APRIL boars and 30 gilts sired by Quality King (a grandson of Long King) and O. K. Price (by Chief Price Again). I have also a few fall pigs for sale at weaning time. My prices are low, and hogs will suit. In good health and vaccinated.

H. CRABTREE - - - - - - - **BAXTER, IOWA**

POLAND CHINA BRED SOWS AND GILTS

WE offer from our herd of extra choice Poland China sows and gilts a fine selection. They are chiefly sired by Old Reliable by Long King, and Roesler's Giant by Long Chief. They will be bred to A Columbus or Bonapart. If you want the very best in extra big Polands, write us. Address

WARP BROS. - - - - - - - - **MINDEN, NEBRASKA.**

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART** - - - **HARLAN, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 mos. Some of the best boars ever bred on the farm are now for sale. They will weigh around 200 and will be shipped immediately upon receipt of check for $20. The greatest bargains ever offered in my twenty years' breeding the big ones. Order from this advertisement today. Address **A. ROESLER, WILCOX, NEBRASKA**

35 IMMUNE POLAND CHINA BOARS 35

I AM offering 35 good spring boars sired by my great boar, **Blue Valley Chief,** and **Pawnee Defender.** Also three good fall boars. This is the last chance to buy Blue Valley Chief boars. These are all immune and are right in every way. Write me at once. Address

JOHN SCHMIEDER - - - **REMSEN, IOWA**

CEDARBANK POLANDS

SIZE

FULL spring crop of boars at private sale. All have been immuned with the simultaneous serum treatment. Write us. We guarantee satisfaction.

THOS. F. MILLER,
R. 6, YORK, NEB.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - - **LISBON, IOWA**

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, **Plattsmouth, Nebraska.**

IMMUNE POLAND BOARS $20 AND $25

SIX big, fine boars from the best Poland China breeding at above prices. Also a few rams and fine S. C. R. I. Red cockerels. Address at once

W. B. COOPER, MILFORD, NEBRASKA.

GOOD LUCK HERD
POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

McCurdy's Giant Polands

SOME of the biggest, heaviest boned boars to be found anywhere, and they are of the very largest breeding. If you want big ones that are smooth, write me. I will save you money. Address

WM. McCURDY - **TOBIAS, NEB.**

HALF PRICE THIS MONTH

TOO many Poland China boars. Prices cut to get rid of them. 160 to 300 pounds. Sired by Orange Boy (1,000 pounds). Perfect health. $20 to $35. Will ship on approval. Satisfaction guaranteed.

M. G. Arnold & Son, Strawberry Point, Ia.

BIG POLAND CHINA BOARS

SPRING boars, 250 pounds or better, big bone, high quality, perfect health. Farmers' prices to those who buy quick. Address, mentioning Homestead.

J. H. COPE - - - - **CARLISLE, IOWA**

$950

Completely equipped f. o. b. Toledo

Overland

$1075

With Gray & Davis electric starter and generator

50,000 cars—Not enough!

FOR from every indication and from orders *on hand* we could *double* our 1914 production—make 100,000 cars and still be behind in orders. We have on file immediate shipping orders for over 10,000 cars. The new Overland has been on the market for less than one month—yet in that short time—in 30 days—we have received orders for one-fifth of our entire 1914 production.

For example: Away up in a very small town in a remote corner of the great northwest, a dealer had contracted for 40 Overlands to be taken during the next twelve months. This is a big order for that section of the country. The publication of our announcement (last month) brought him such an overwhelming batch of cash orders that he came straight to Toledo to literally beg for more cars. He stated that he would take the *entire* shipment of 40 cars *in one month instead of twelve months* as originally contracted for.

On the other hand our dealers in the large centers would take 500 cars apiece *right now* if we could supply them. But 150 a day is the very best we can do at this time. And these 150 per day we are carefully and equally distributing all over the country.

Such selling records have but one meaning. Such a demand must prove to you beyond all doubt that the Overland is the most economical and practical buy on the market.

And why not? Look at the *increased* value and the *decreased* price!

The motor is larger—*but the price is lower.*
The wheelbase is longer—*but the price is lower.*
The tires are larger—*but the price is lower.*
The new car has electric lights throughout—even under the dash—*but the price is lower.*
The body is designed with cowl dash and flush U doors with concealed hinges—*but the price is lower.*
It is magnificently finished in dark Brewster green, trimmed in polished nickel and aluminum, running boards and wheels to match—*but the price is lower.*
Then there are Timken bearings, a jeweled Stewart Speedometer—a larger steering wheel, and deeper upholstery—*but the price is lower.*

Never before such value for such a price!

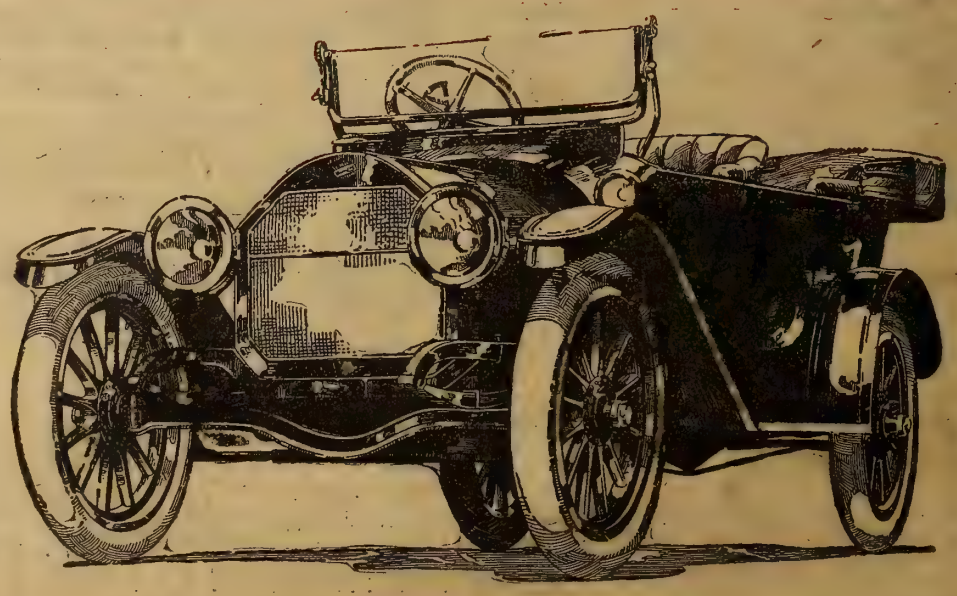
It is conservative to estimate that on the average the new Overland costs you *30% less* than any other similar car made. And a production of 50,000 cars is the reason.

Get in touch with our dealer. Arrange for an immediate demonstration. October and November are the finest motoring months in the year. If you are thinking of getting a car negotiate today. Make your appointment now.

Handsome 1914 catalogue on request. Please address Dept. 80

The Willys-Overland Company, Toledo, Ohio

Electric head, side, tail and dash lights
Storage battery
35 Horsepower motor
114-inch wheelbase
Timken bearings
Splitdorf magneto
Model R Schebler carburetor
Three-quarter floating rear axle
33x4 Q. D. tires
Cowl dash



Brewster green body
nickel and aluminum trimmings
Deeper upholstery
Mohair top, curtains and boot
Clear-vision windshield
Stewart speedometer
Electric horn
Flush U doors with concealed hinges

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The Iowa Homestead

Reading Room
Agricultural Bldg.
Urbana Ill.

VOL. LVIII. NO. 49. DES MOINES, IOWA, DECEMBER 4, 1913. WHOLE NO. 2910

OUR BUSY DAY

Your Grandfather Read It
Your Father Read It
Are YOU Reading It?

Old Farms Made New

An old man can never be made young. A worn-out reaper is fit only for the junk heap. A horse that is past usefulness must be retired.

But an old farm can be made new!

The owner of a hundred-acre farm was beating all his neighbors in crops, yet his business was a fizzle.

It looked as if he'd have to quit the game to make a living. But he told his troubles to a farm-management expert. The expert got busy and made that farm over from pasture to corncrib. He moved fences, started rotations—did just the things an expert replanning a factory would do.

And when he was done the deficit had been turned into a profit.

For several years the Department of Agriculture, through its field agents, has been experimenting with various farms, with the owner's coöperation, along the lines of system and efficiency. We are able to publish the results in a series of four articles, of which this is the first, under the title, *Old Farms Made New*. They tell how to replan a farm for economy in time and labor.

PECANS—A Tree Crop of Tomorrow

A plantation owner set out a sixteen-acre pecan orchard, at a cost of $600. Three years later a friend asked, "What will you take for it?"

"It's not for sale," the owner answered, and $1800, $3000, $4000, wouldn't budge him. Why?

"Because when it is ten years old I can sell it for $16,000—$1000 an acre," he declared. Now it is nine years old and he wouldn't take $16,000, because it will soon be paying twenty per cent on that valuation.

Tree Crops is the next big thing in farming, says Dr. J. Russell Smith, and he understands this subject better than anyone we know. He studied the nut orchards of this country, and some friends of the University of Pennsylvania thought so highly of his work that they sent him on an 18,000-mile trip through Southern Europe and North Africa, where pecans, chestnuts, walnuts, olives, dates and the rest have flourished for centuries.

He returned with a new faith in tree crops. He tells in this series of articles how the nut industry must be reëstablished in America.

Fresh Fowl—or Frozen

Cold storage is a saving grace to the farmer—it prevents glutted markets and equalizes prices the year round.

The poultryman especially will find that the cold-storage plant is his best friend. Here's a story that tells what it means to you as no other article you ever read has told.

A Woman and a Windmill

In the homesteading game on Uncle Sam's free land women win out as well as men; women of pluck and common sense, like this woman who took a windmill along with her when she went out to try to make a home for herself.

"Any woman can do it," she says, "if she will buckle down cheerfully and not try to be a parlor ornament."

This *real* story of a *real* woman is better than fiction.

Out West—The Little Landers

Can a family farm a quarter of an acre and get a living out of it? That's the claim back of Southern California's Little-Lander movement. Ever hear of the little landers? We have investigated them. You may be interested in the result.

These Are a Few of the Big Features You Will Find in One of Our Four December Issues. But They Are Not All

Growing Alfalfa for Market. A hundred dollars an acre in a droughty year looks good to Kansas farmers, and their cornfields are rapidly becoming alfalfa fields. Have you tried alfalfa as a money crop?

When Dairymen Get Together. For a long time the dairymen have been divided into many factions. Dealers and producers have waged continual warfare. Ice cream manufacturers have been misunderstood. Breeders have followed false gods and have maligned each other's breeds. But harmony is coming. The last National Dairy Show was really a peace conference as well as a school for producers, dealers and manufacturers. Our article on the Dairy Show will have a new point of view. It's not merely a list of prize winners, but a foresight into dairy futures.

Progressive Agriculture. A girl made $107 from tomatoes on a tenth of an acre. A boy raised 167 bushels of corn on an acre. Uncle Sam is teaching 92,000 boys and 33,000 girls how to get the most from the farm, and they are teaching their fathers and mothers.

Then there's a great woman's department, with the advance guard of Christmas shopping suggestions and holiday recipes and helpful hints for the "Mainspring of the farm"—the wife and mother. And a dozen more articles dealing with the two important features of the farm business—economy in production; profit in marketing.

IF FARMING IS YOUR BUSINESS YOU NEED

The COUNTRY GENTLEMAN

Five Cents the Copy, of all Newsdealers. $1.50 the Year, by Mail

THE CURTIS PUBLISHING COMPANY, Independence Square
Philadelphia, Pa.

COAL Direct From The Mines

Keep Dealer's and Jobber's Profits In YOUR Pocket

DO you know that wherever you live *you* can now buy coal straight from the mines at wholesale prices, the prices your *dealer* has to pay?

Do you know that this winter you can save from $50 to $100 on your coal supply—have it delivered promptly—the cleanest, best heat-producing coal you ever used?

It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

Our great mines near Vincennes, Indiana, produce enormous quantities of the finest coal in the country—the coal that is famous for its remarkable heat unit efficiency. We ship everywhere direct from mines in carload lots this splendid guaranteed fuel.

Tecumseh Coal

Save $50 to $100

on your winter's coal supply. We know that seems too good to be true, but it is an absolute fact that hundreds of people far and near are already buying Tecumseh Coal from us at wholesale and making this marvelous saving.

Not only is Tecumseh the best heat giving coal—but it is *all coal*—cleaned at the mines by the most perfect system ever installed.

No matter how big your coal bills have been in the past—no matter how much you have fattened the jobber's and dealer's profits—the time to turn your back on the old costly round-about way of buying is now. Begin with *this* winter to make this real saving.

It is plain common sense for you to save money by dealing *direct with the mines*. You owe it to yourself to find out the facts and prices—to learn more about Tecumseh Coal. All we ask is the opportunity to quote you prices—to prove in actual figures the splendid saving you can make.

This should interest you whether or not you intend to buy a full car of coal.

Club with Your Neighbors

If you cannot use a whole car—25 to 40 tons—you can easily arrange with your neighbors to divide up the shipment and still make this handsome saving on your winter's coal.

This money-saving plan is too important to be set aside. The amount of waste money you have been paying your dealer belongs in your own pocket. Keep it there. Right now take the first step. It obligates you to nothing. Just fill out and mail us the coupon in this advertisement. The prices we quote will positively surprise you. But do it now before the matter slips your mind. Address

Martin-Howe Coal Co.
1936 McCormick Building
Chicago, Ill.

Money-Saving Coupon

Martin-Howe Coal Co.,
1936 McCormick Bldg., Chicago, Ill.

Gentlemen:—Am interested in your proposition of better coal for less money. Please quote prices, freight included, delivered at my nearest railway station, on the following coals:

No. of Cars.....Kind of Coal.....
No. of Cars.....Kind of Coal.....
Name.....
Nearest R. R. Station.....Name of Railroad.....
Postoffice.....County.....State.....

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, DECEMBER 4, 1913.

HEN LAYS 282 EGGS IN YEAR

International Contest Honors Go to English White Leghorn Pullet—Second Place Goes to Connecticut White Leghorn With Total of 267 Eggs

THE NEW TITLE HOLDER, BARONESS IV, 282 EGGS IN ONE YEAR.

THE feature of the second international egg laying contest, which closed at the Connecticut Agricultural College with the month of October, is an English White Leghorn pullet which laid 282 eggs in the year and took the international title away from "Lady Showyou," which made the surprising total of 281 in last year's Missouri contest. "Baroness IV" is the name of the new champion, and her owner is Thomas Barron, of Catforth, England.

The new champion had a grand year of laying eggs, laying on an average of three eggs in four days. Starting with two eggs the first week, she never dropped below four a week afterward but twice; in the seventh she laid three and in the fiftieth two, and finished the last fifteen days with ten eggs. The other four in the pen had stopped when the contest did, but she didn't stop even then.

This pen won first place for total production with 1,190 eggs for the year, an average of 238, and each bird in it laid over 200 eggs. The five started the contest by laying eleven eggs the first week and maintained their lead to the finish, well ahead of all others, every bird laying each week up to the forty-eighth, with the exception of the eighth to twelfth weeks inclusive, when No. Three didn't lay. Six times it figured in the monthly winners, but first only once, for November.

"Baroness IV" and a sister which won third place for individuals make the leading pair of the contest. The sister laid 262 and their total was thus 544. Second honors for a pair, and the best American pair, go to a remarkable pair of Rhode Island Reds in the pen of Colonial Farm, Temple, N. H., which laid 245 and 248 respectively, finishing with a combined production of 493. The first of these two laid an egg a day through the month of August.

The best American bird is a Connecticut White Leghorn in the pen of Burton E. Moore, of Winstead, which, while laying seven eggs in a week but once kept up a steady grind and finished with the excellent record of 267 eggs in the year. Fourth place went to England, with first and third, a White Leghorn in the pen of Edward Cam, of Houghton, laying 256, but fifth honor comes back to the United States, to a bird of the same variety in the pen of O. A. Foster, Santa Cruz, California.

The geographical distribution of the winning pens will be noticed in the following list of the next twelve: Second place, Edward Cam, White Leghorns, 1,107; third, W. L. Sleeger, York, Pa., White Leghorns, 1,029; fourth, Edward Cam, White Wyandottes, 1,009; fifth, O. A. Foster, White Leghorns, 997; sixth, Colonial Farm, Rhode Island Reds, 968; seventh, Frank Toulmin, Burnley, England, White Wyandottes, 954; eighth, W. P. Canby, East Downington, Pa., White Leghorns, 952; ninth, Mrs. H. F. Haynes, Shoup, Idaho, White Wyandottes, 951; tenth, B. F. Moore, White Leghorns, tied with Beulah Farm, Stoney Creek, Ontario, White Wyandottes, 945; eleventh, Smith Brothers, Addingham, Pa., White Leghorns, 934; twelfth, F. A. Jones, Northumberland, Pa., White Leghorns, 928.

This gives four to England, one to Canada and the rest to a range of states from the Atlantic to the Pacific. Three pens are White Wyandottes, one Rhode Island Reds and the rest White Leghorns. Especially in the latter weeks White Wyandottes did fine work, the Cam pen finishing with twenty-six eggs in the last eight days. The Beulah Farm pen succeeded the second place pen of the first contest, but started more slowly and pulled up to tenth in the final weeks.

Mrs. Haynes' birds of this variety were interesting. The pen of six, five layers and a reserve bird, was selected

CONNECTICUT WHITE LEGHORN WHICH FINISHED SECOND.

from only sixteen pullets and Mrs. Haynes' knowledge of White Wyandottes had been gained with her own birds and by reading; they went on a pack horse and by stage fifty miles to the railroad and began laying the day after their arrival at Storrs; and they kept on in their steady stride in the latter weeks while pens with better records dropped back, until they finished a splendid ninth.

The Sleeger Leghorns were the leading American pen, with 1,029, and led in monthly scores four times, for April, May, July and August, and tied with Barron's for third in July. In May they set a monthly record for five birds which will take some beating, 141 eggs, and in the twenty-eighth week tied the Colonial Farm Reds for the contest high weekly score, 33 eggs. Only the Foster Leghorns equaled this later. In these five months No. Four in the pen laid 143 eggs out of a possible 153, and for eight weeks in May and June laid an egg a day. First honors for this sort of thing went, however, to a barred Rock in a West Philadelphia pen which laid 61 eggs in 61 straight days.

The total production of the 500 birds in the year was 77,916 eggs, an average of 156 per bird, which should do something to help the high cost of living when they are added to the breeding stock in this country. Most of the English heavy layers stay on this side. Six-

(Continued on page 18)

BEST AMERICAN PEN, TO THE LEFT, 1,029 EGGS IN ONE YEAR—CAM'S ENGLISH PEN, TO THE RIGHT, 200 EGGS EACH IN TEN MONTHS.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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Des Moines, Iowa.

LACK OF BUSINESS METHODS.

In a sense, it is unfortunate that the individual who lives in town or city is referred to as a "business" man, while the tiller of the soil is simply the "farmer." We say glibly such and such a matter "affects both the farmer and the business man" just as if the farmer were not also a business man. As a matter of fact, were we called upon to select typical examples of shiftlessness and indifference as affecting business principles and methods, we would not look for it on the farm at all, but in towns and cities. This is not equivalent to saying, however, that it would be impossible to find cases on the farm where there is no system in methods of doing things and where business methods are entirely lost sight of.

Our attention is called to this matter by one of our subscribers, Mr. James Lawrey, who has passed through an experience which indicates to him that at least some farmers are lax in their methods of conducting their affairs. Mr. Lawrey says that he has written more than one poultry dealer who has been advertising either eggs or birds, without receiving a scratch of the pen in response. It is pointed out in this case that possibly the demand has exceeded the supply, but, according to Mr. Lawrey, this method of handling a prospective customer is wholly unexcusable.

It is a disappointment to us to think that cases of this kind have been discovered. If it could be demonstrated to the breeder of improved livestock how exceedingly careful successful merchants are in handling all their mail and in preserving in alphabetical order a card index giving their customers' names, the outcome of this demonstration would result in the introduction of a better business system in at least some instances.

In case the market should be brisk and correspondence should continue when there is no longer a supply of animals, fowls or any other class of produce to meet the demand, the prospective customer in every case should be courteously informed of this fact. Furthermore, the preserving of the names of those who are not supplied if they are courteously treated really constitutes an asset in one's business. A card or a letter sent early the next season to those customers who were too late in the first instance will undoubtedly, in the majority of cases, result in effecting a sale. Furthermore, one must not lose sight of the fact that a courteous reply to an inquiry makes you a friend there and then and will result in the spreading out of good words in your favor among neighbors, which is in reality creating still another asset in your business.

In dwelling on this matter we have in mind, in the main, our own advertisers. If there are those who have been careless in this matter in the past, we hope that the same mistake will not be repeated. Bear in mind that so simple a matter as the failure to answer an inquiry may result in spreading a report in a given neighborhood that will not be favorable to your business in the future. The day has passed when a letter can be put up on the clock and answered some time in the far distant future. The up-to-date man keeps a letter file and business correspondence is attended to almost by return mail.

CHANGING RURAL CONDITIONS.

Some superficial thinkers have the idea that, because the last census showed rural population to have declined in many states, this was a sign of a backward tendency in farm activity and development, but those who are most familiar with rural conditions understand that this doesn't indicate an abandonment of the farms, or a decreased farm acreage. It doesn't show that there were fewer acres in cultivation in 1910 than in 1900 or 1905. The same decrease is shown in the population of many villages and small towns, though almost all large towns, and practically all cities, indicated more or less increase.

The records show that nearly 6,000 towns in the United States have decreased in population, mostly small towns, while about 18,000 postoffices were discontinued by the postal authorities during the year 1911. Many country villages are slowly dying, since they are no longer needed. This change in rural conditions is due largely to the activities of big city stores, to rural routes, better roads, automobiles and better school facilities in the towns. Improved means of transportation, together with the modern distribution methods of important retail city establishments and their larger stocks, allowing more satisfactory selection, account for the decrease in population of so many small country towns.

As to the remedy that will preserve the villages, provided they are a real asset to the country, it can only develop out of a careful study of the situation and surroundings. Many small towns will pass away, as vast numbers have already passed away, and it is well that they should. They have fulfilled their mission, and are no longer needed. They were necessary in an early day to the farmers, who couldn't travel more than five miles over crude roads with overworked teams, to get their groceries. A farmer in most of the states can now drive fifteen miles easier than he could five miles during those days. The mail which once went to these villages is now taken direct to the farmers' homes from the county seat or some larger railroad town near by. Better public roads being constantly provided, and more and cheaper automobiles will probably still further reduce the size of the less progressive towns. Trolley lines have also had a tendency in this direction.

The same causes which have reduced the size of small towns have also been at work in the cities and large towns. The large retail stores in these cities and towns have increased their business 100 per cent, while the cities and large towns themselves have increased upon a general average of perhaps, from 20 to 50 per cent. The principal increase in population had been in the larger towns and cities during the thirty years from 1880 to 1910. The decrease has been in the villages and small towns. While in many cases farming communities decreased, this need occasion no alarm, for, undoubtedly, the same farms which were in cultivation thirty years ago are still in cultivation, only larger, and with better houses and fences upon them.

Many farmers have moved to town for the sake of good school privileges for their children, renting their farms to tenants. If the census enumeration could show the number of farmers who live in town for the benefit of school privileges, and go out to their farms a mile or two from the towns, in automobiles or wagons each morning to pursue their farming operations, as so many German farmers do in the old country, we would find that few, if any, farming communities have really decreased in population. Then many pretentious towns and small cities, ambitious to put on metropolitan airs, have extended their limits until the homes of many near-by farmers are within the city limits, and the census takers doubtless classified such farmers as citizens of these towns.

As a rule the average town, not a county-seat town, gets its trade within a radius of five miles, and in late years these villages gathered around country postoffices have so increased that the five-mile limits of many of them overlap each other, and a smaller trade radius is not sufficient to support even a village.

The means for increasing the population of many small towns as now constituted must grow out of local conditions. Good high schools or consolidated rural schools, poultry farms, hay-baling presses, grist mills, feeding pens for cattle and hogs, small creameries, ice houses, improved dairy cattle, good roads, motor car freights, express and passenger delivery to and from the county seat or nearest large railroad town will aid in sustaining such small towns as really serve a good purpose in the community and are for the convenience of farming communities, while in the South gins, peanut butter factories and sorghum cane mills and evaporators will also insure the prosperity and upbuilding of such towns when the country is rich, and thickly settled, even though the town is close to the county seat, or a large railroad town.

With good roads and a good motor truck delivery for freight and express, any of the enterprises and industries mentioned above should do well, though the village is off the railroad.

But even if the town goes down and vanishes from the face of the earth this is not an indication of a retrograde movement in the community. The tradesmen and small merchants who once did business in the village will move to the county seat with their stock, perhaps, there to enjoy a larger trade, or possibly they will sell out entirely and take up farming. The postmaster, when his office is abolished, will become a rural route postman, and the village will vanish, save for the grist mill, the blacksmith shop, the schoolhouse, one or two churches, and perhaps one general store selling the most common articles of food, hardware, furniture, dry goods and harness. Such changes really indicate improved conditions in the farming community.

These conditions should be noted by the live merchant in the city or large town, who wishes to keep abreast of changing conditions. The parcel post is now his willing servant, and if he is alert to his opportunities and the possibilities of extending his trade he will profit by such changed conditions, the same as the farmer and the one-time small village merchant who has now moved to the county seat, where he does a much larger business than before, still numbering among his customers many of the same farmers who formerly traded with him in the village, and who can now go to the county seat to trade on account of the improved roads.

METHODS OF APPLYING MANURE

In his book on farm manures, Prof. Chas. E. Thorne points out that the plan of piling manure in small heaps is more wasteful of fertility than it would be to leave it under the barn eaves. In the first place, the excess of fertility washed into the soil under manure heaps is an actual injury and, in the second place, the pungent invisible gas that is given off from manure handled in this way means that a great deal of valuable fertility is escaping.

Decomposition of manure can take place, according to Professor Thorne, only in the presence of moisture. Just as the evaporation of brine leaves only the salt behind, so when manure is spread thinly and allowed to dry out, the fertilizing elements remain in the dry matter. On the other hand, when manure is piled in heaps in the field, it retains its moisture, thereby furnishing ideal conditions for rapid chemical changes which lead to loss through leaching and through the evaporation of volatile gases. When manure is piled in small heaps bacterial action is increased and this in turn liberates even the mineral elements such as phosphoric acid and potash and these are washed away by showers.

The ideal system, according to Professor Thorne, viewing the matter entirely from the scientific standpoint, is to spread the manure thinly and evenly on the surface. It is desirable that manure be drawn promptly to the field before it deteriorates in the yard. Apart from the standpoint of conserving all the fertility, the cutting down of the labor alone by using a manure spreader is in itself an important factor in conservation. Considering the matter from the standpoint of convenience and having in mind the perfection and the economy of its work, the manure spreader, according to this scientist, should be ranked next to the automatic harvester in importance as a farm implement.

The plan of spreading manure on frozen ground during the winter season is a commendable one. While there might be a small loss from surface washing, yet this loss is insignificant as compared with those losses which occur in the average barnyard or when the manure is put in heaps in the field.

HUSKING OUT SHOCK FODDER.

An Illinois subscriber outlines briefly the various plans that might be used in husking out shock fodder. His communication follows:

I have tried a few plans of husking shock corn. Either of them are very good, but every farmer has his own method. He generally pursues the one he likes the best.

The first plan is that of loading several shocks of corn on a hay frame and hauling it to a shed or shelter where it is unloaded in a pile. Here it is husked out where one is protected from the cold wintry winds. The fodder is piled into the shed as the corn is husked and left there protected from the weather until it is fed. Another method is to husk the corn at the shock. Here is the plan I have used. First, I tear down the shock and lay it in three or four piles. I move a pair of light trestles to one of the piles, take up an armful of corn and lay it across these. Then I husk the corn and throw them into a pile on the ground. If ground is muddy a bunch of fodder will be placed near on which the corn is thrown. The fodder is tied into bundles with binder twine and laid aside. All the corn is husked, then the bundles are set up in the form of a shock and tied together with binder twine so there will be no twisting or falling down when the storm is on. It is easy to handle the bundles of fodder with a pitchfork and when hauling them out for the stock. It pays to tie the fodder into bundles, as it is more easily handled.

We are not very much in favor of one plan that is carried out by this subscriber, namely, that of throwing the corn on the ground when it is husked out. When this work is being carried on there is as a rule very little work being done with the horses and for that reason we like the plan of throwing the corn directly into a wagon. This cuts out the labor involved in handling the corn the second time.

THE USE OF GROUND FEED.

It is our observation that a feed-grinding outfit will be found on almost every farm where stock raising is the major industry. In other words, where calves and colts and hogs are being reared in considerable numbers and in due time fitted for market, there you will find, in most cases, a grinding outfit that is used to a greater or less extent. While it is not contended that all the grain fed to livestock should be ground, yet, unquestionably, it is profitable to grind at least part of it. An Illinois subscriber gives his views on this matter in the following communication:

When I was a boy at home on my father's farm we fed a great deal of ground corn to our stock. In the neighborhood was a feed mill, and we took the corn to this where it was ground, cob and all. When the cob was ground the horses and cows would eat the cob with the corn. We even fed the steers that were in the fattening pen on the ground feed. It seemed that they got the full strength of the corn, and did not pass so much off with waste matter.

While it is a little more trouble to grind feed and handle it after it is ground, I have been fully convinced that the ground feed is more valuable than the whole grain. It is more easily masticated, and for this reason proves beneficial for old animals and animals with poor teeth. For feeding the ground feed one must necessarily have strong, non-leakable feed boxes and troughs. These will prevent all waste, so that stock get every particle of the feed.

One should also keep the ground feed where it is perfectly dry, for if it becomes wet it will soon spoil if weather turns a little warm. Then the ground feed must be kept in bins that are free from rats and mice, for if they cut holes in the sides or bottom of bins a lot of it will be wasted.

For feeding animals the grain need not be ground very fine. In fact I like it better when it is coarser. This makes it better for handling and easier for the animals to eat. One should be careful not to overfeed the ground grain. When one has been accustomed to feed grain on the cob, he is very liable to feed too much when giving it ground. Be careful to measure it, and there will be no trouble.

We like the plan of feeding ground grain, as it were, in supplementary quantities. Take, for instance, the

matter of feeding out a bunch of hogs. It will pay, and pay well, to feed one meal of slop daily, and, ordinarily, on the average corn-belt farm, this slop should be at least partially composed of ground corn. For instance, a mixture of five parts ground corn, three parts shorts and two parts oil meal or tankage, will be exceedingly palatable, and it will, in our opinion, result in keeping the hog in the very pink of condition so that all the dry grain consumed will be used economically for meat-making purposes.

We could mention many instances where ground feed can be used to great advantage. Ground grain makes an ideal ration for young calves; for male animals it may be used to very great advantage where one is working three and four-year-old horses, and also in the feeding of old horses. Considering the amount of labor involved in grinding, we do not believe that it is profitable to attempt to grind all the grain consumed by hogs or fattening cattle, but, as said before, there is no question about the soundness of the policy of using ground grain in supplementary quantities.

A LETTER OF GOOD CHEER.

Nothing gives a publisher greater pleasure than to receive letters of appreciation from his subscribers. They show that his efforts are bearing fruit; they give him encouragement to continue the good fight. The cheering inspiration of such a letter as the one printed below can hardly be overestimated:

Herewith find check for $9 to pay my renewal and five new subscribers for three years each. The Iowa Homestead is the best farm paper published. Now, I am interested in other things than the Almighty Dollar. Every farmer in the grain belt ought to take The Iowa Homestead. I believe in education; in conservation; in good roads, not the so-called hard roads, but dirt roads constructed on a scientific basis, that is, with the water run out or kept from under them. In order to do this it will be necessary to establish a thorough system of tiling. The land should first be surveyed by an educated person.

Provided you want me to get some more subscribers send your terms. I do not want to make any money out of this, but I do want the people to get acquainted with The Iowa Homestead.

Such a letter (and it is used only as representative of scores of others, of similar nature, received every week) shows the publisher of The Iowa Homestead that he is making progress toward his ideal, that he has the moral and financial backing of the man for whom he is working: the prosperous, progressive farmer who wants to know how to make farm life more attractive, farming more profitable and the farm home more comfortable and satisfying to every member of the farm household.

Cannot every one of us, publisher and subscriber alike, find inspiration in such a letter? If every one of the big subscription family of The Iowa Homestead were to appoint himself a committee of one to undertake such a work as the writer of the above letter found so easy and pleasant, the effect would be far-reaching, making the paper forge still further ahead, as the most practical and entertaining of all the farm weeklies, inspiring the publisher to do still greater things and giving the subscribers the satisfaction which comes from good work well done.

The publisher of The Iowa Homestead hopes to receive many, many such letters within the coming weeks. There is not a subscriber but could easily secure the subscription of a friend or neighbor and sending these in, with a cheery letter of approval, the 1914 campaign to advance farming in the grain belt to a still higher plane would go forward with such enthusiasm as was never known before. Is it not worth the trying? Shall we not all join hands for a long pull and a strong pull, all together?

A NEW DAY IN BEEF PRODUCTION.

Many feeders of the corn belt have lost money on the steers that they have marketed during the last few weeks. This has been particularly the case for those who have handled heavy cattle. An Indiana feeder who was caught between the upper and nether millstone recently stated that he was ready to market seventy-five head of heavy cattle because, said he:

I am anxious to ascertain just how much my net loss will be. My steers cost me $7.75 a hundred laid down in the yard and I have fed them six months. I ought to have a spread of two cents a pound if I make any money and I doubt if I will get an increase of more than half a cent a pound. It will be the last bunch of heavy cattle that I will feed out and if I can buy calves at anything like a reasonable price I expect to take home two loads when I sell my heavy cattle.

There are thousands of corn-belt feeders that are in exactly the same predicament that this Indiana stockman finds himself in. Possibly a certain small proportion of feeders can solve the problem by starting out with calves instead of yearlings and two-year-olds, but our attention has been called to cases where calves have been lumped off at so much per head which in reality cost as much as 10 and 11 cents a pound. Under these circumstances it may be doubted whether there will be any profit when these high-priced youngsters come on the market a year later.

The situation is complex but there can be only one conclusion arrived at. If we are to produce enough meat in this country to supply our own people, to say nothing of our export trade, we must settle down to the policy of every farm producing its own cattle. If good blood is used there is an opportunity to finish baby beeves by marketing the young stuff between twelve to eighteen months of age, or, on the other hand, they may be more cheaply carried along and finished up around twenty-four months. It is doubtful if on corn-belt land it ever pays to carry well-bred cattle longer than two years. Now that the silo has come to stay the very best possible use of ensilage can be made only when it is fed to young and growing cattle. There is too much maintenance cost in carrying along a bunch of heavy steers and it involves, in most cases, a cost that only can be recouped by a big spread between the buying and selling price, and the experiences of the last few weeks show that that cannot always be counted upon.

MAKING THE TELEPHONE PAY ITS WAY.

Can the farmer make his telephone pay its way? I mean pay in actual dollars and cents. There are few persons who have telephones who feel that they get their "money's worth" during the year. But they count the pleasant chats and the time saved worth a good deal. Some farmers, however, by using their telephones make them pay enough to cover the cost during the year. By one deal, sometimes, a man will make enough to pay for his telephone rent for a year or more.

Here is a man who has a bunch of hogs to sell. He calls up a buyer in town A. The price is 7 cents. Another buyer in town B is called. He says, "Bring your hogs tomorrow and I will give you 7½ cents per pound." The man answers that the bargain is made and he will deliver the hogs. He has twenty hogs weighing 200 pounds each. That is four thousand pounds. He made a half cent by using his telephone which, multiplied by four thousand, gives $20. His telephone rent for one year is made.

A lady telephones to one town asking the price of turkeys. She is not suited with the price, so telephones to another. Her turkeys are engaged for a cent more per pound than she was offered by the first merchant she rang. She made twelve dollars by the transaction. Her telephone rent was paid. So by this method of keeping in touch or getting in touch with markets in different towns one can realize enough more to make the telephone pay its own way in dollars and cents.

CATTLE IMMUNE TO TUBERCULOSIS.

Prof. N. E. Hansen, of the South Dakota Experiment Station, has just returned from a trip to Siberia where he has been searching for hardy plants. He brings back the information that the Kirghiz cattle of southern Siberia are immune to tuberculosis and furthermore these cows produce a considerably higher percentage of butter fat in their milk than any other known breed. Professor Hansen is a shrewd observer, but at the present time he is not in a position to state whether the mere crossing of these cattle on our own breeds would carry with it the immunity from this disease.

We have always believed in the policy of searching the world for useful plants and animals. Much is being accomplished by cross breeding and by the production of hybrids, particularly in the plant world, but a given end can be attained much more quickly in many cases by importing from other countries plants having fixed characteristics, these not being subject to the wide variation which frequently comes from crossing.

It is of interest to know that the cows of this breed produce a rich milk, but of course after all it is even of greater importance to learn the amount of milk that is produced by the breed. We cannot turn the clock of time back a hundred years and take up a breed that is vastly inferior to our own cattle in total production. If, however, with the hardiness that apparently characterizes this breed, the cows are heavy milkers then this announcement is of much agricultural importance and the United States Department of Agriculture should lose no time in landing some of these cattle on American soil.

MAKE THE BROOD SOWS HUSTLE.

The trer endous loss that has resulted from the hog cholera scourge in the corn belt this year has worked a real hardship on thousands of swine breeders. Many a man has found the profits of a whole year and, in some cases, the profits of several years swept entirely away in the course of a few days or a few weeks at the outside. The situation is such as to force upon the attention of every man who handles hogs the great necessity of taking every precaution to prevent a repetition of this disaster in the future.

One important factor in this connection is to start the little pigs off constitutionally sound. This means that throughout the entire gestation period the brood sow should be handled in such a way that this result is accomplished.

To this end there are two factors that must be kept constantly in view. One is that corn alone is not a satisfactory ration for the brood sow, and secondly, special pains must be taken to keep the brood sow on the rustle. We are not going to lay down hard and fast rules as to what the sow should be fed because something depends upon conditions. We expect that corn will constitute the bulk of the ration and to it may be added, say, one part of oil meal to eight or ten parts of corn. Tankage is an excellent feed to use in this connection and it is richer in protein than oil meal. We have known instances where very good results were obtained from feeding one pound of tankage to fifteen pounds of corn. Then, of course, there are the mill foods and even small grain like wheat, oats and barley may be used to very great advantage. These ought to be ground or soaked and they may be made to constitute one-half the grain ration.

But, as said before, food alone is not enough. We believe in the theory of getting the sow in fairly good flesh before farrowing time and if she is fed enough to accomplish this purpose she will be lazy. When sows have access to nice comfortable beds at all times of the day and night they spend entirely too much time loafing and in order to head this off we very strongly favor the plan of turning them into pastures when the weather is at all agreeable and keeping them there for several hours each day. As the gestation period advances it will pay and pay well to feed them some of their grain at a considerable distance away from their sleeping quarters, thus making exercise compulsory.

We expect to revert to this subject many times before spring because it is impossible to overemphasize the importance of this matter of exercise. We have in mind one instance where twenty-five sows saved an average of eight pigs per head and in not a single instance were there weak pigs farrowed. These sows were fed a part of their grain from a crib located a quarter of a mile from their sleeping quarters and, as a matter of fact, they spent a considerable part of each day walking backwards and forwards to and from this crib. Even sows weighing 600 or 700 pounds were constantly on the go under these conditions and, as said before, the result was that in every case strong, vigorous pigs were farrowed.

This, in our opinion, is the way to build constitution and to get hogs into that condition whereby they have, to some extent, at least, a natural immunity from disease.

Oliver Wilson, of Peoria, Ill., was reelected worthy master of the National Grange. The expected strong opposition of the so-called insurgents to Mr. Wilson did not materialize, the election being practically unanimous. The insurgents were successful, however, in their fight against Charles M. Gardner, master of the Massachusetts Grange, candidate for national lecturer. George W. F. Gaunt, Mullica Hill, N. J., high priest of Demeter, won the three-cornered contest for the position, the present lecturer, N. P. Hull, of Michigan, being the third candidate. W. H. Vary, master of the New York Grange, defeated the incumbent, D. H. Healey of North Woodstock, Conn., for national overseer.

DAD

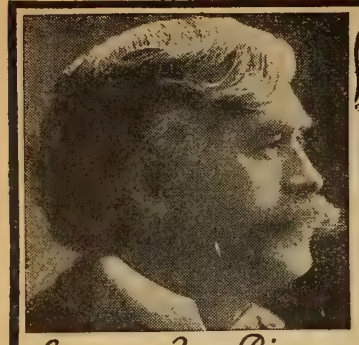
DAD was never no hand to fuss;
Used to hurt him to hear us cuss;
Kind o' settled in his old ways,
Born an' raised in the good old days
An' the farm was home, not a toilin' mart,
When a tattered coat had a kindly heart,
An' a man was judged by his inward self;
Not his worldly pelf.

Seems like 'twas yesterday we sat
On the old back porch for a farewell chat
Ere I changed the farm and the simple life
For the city's roar and bustle and strife.
While I gayly talked of the city's charm
His eyes looked out o'er the fertile farm
An' he said as he rubbed where his hair was thin,
"All right, son, you win."

'Member the night I trudged back home,
Sinkin' deep in the fresh turned loam;
Sick and sore for the dear old place,
Hungerin' most for a loved old face.
When I had climbed the hilltop o'er,
There stood dad in the kitchen door,
An' he says in a voice from deep within,
"Hello, son, come in."

One winter's day, the first of snow,
He went the way that we all must go;
An' his spirit soared to the realms above
On the wings of a simple hearted love.
An' I know that when I cross the bar
I'll find him there by the gates ajar,
An' he'll say, as he idly strokes his chin,
"Hello, son, come in."

—William Edward Ross.



James M. Pierce

THE PUBLISHER'S VIEWS ON TOPICS of THE TIME

THE FARMER AND THE INCOME TAX.

DURING the past few weeks I have received a number of letters from farmers, asking how the new income tax will affect them and for particulars concerning it. While the law is ambiguous in many particulars, so that lawyers and financiers are at variance as to certain provisions, there is no question but that the law affects the income of farmers the same as city men, with this difference only: The farmer himself will report his net annual income and pay the tax direct, while the city man, on a salary or with a stated income, will have the tax deducted by his employer or at the source of his regular income.

The law plainly provides that the tax on the "income of an individual which is not fixed or certain, and not payable at stated periods, or is indefinite or irregular as to amount or time of accrual" shall be paid by the individual himself and names the farmer as the first man included in this list. Herein the case is different from that of the city man on a salary. With him the income tax is deducted by his employer from his annual salary. But the income of the farmer is irregular; depending upon weather, crops and a variety of circumstances and conditions. If a city man receives a salary of $5,000 a year (and has no wife living with him) he is taxed 1 per cent on $2,000, which is the excess over the minimum of $3,000, and this tax of $20 is deducted from his salary each year by his employer. But if the farmer sells $5,000 worth of grain or livestock to a commission man nothing is deducted from the total because of the income tax. Instead, the farmer, once a year, is bound by law to make a report of his annual net income and over against this $5,000 sale of grain or stock is placed the expense of bringing it to market. If the net profit of this single transaction is $1,000 it is added to the net profit of other transactions for the year and the income tax is paid only in the event that the total net income of the farmer for the year exceeds $3,000, or $4,000 if there is a wife living with him.

A great many people misunderstand the new income tax law completely. The ordinary man, be he farmer or city man, has to pay 1 per cent on whatever amount his net annual income is in excess of $3,000. If he is a married man, with a wife living with him, the exemption is $4,000. The tax is then 1 per cent on the amount in excess of these figures. Suppose the net income of a farmer, who is a single man, is $5,000. He will be obliged to pay $20 a year income tax—1 per cent on $2,000. Suppose the net income of a farmer, who is married, with a wife living with him, is $5,000. He will be obliged to pay $10 a year income tax, 1 per cent on $1,000. And so on up to the limit of $20,000 a year net income, when the tax assessment increases. Many farmers have written me under the impression that the tax of 1 per cent applied to the entire income. It applies only to that portion above the exemptions I have set forth herewith.

The next question that naturally arises is: "How will the farmer figure his net income?" The law is specific on this point. It states that in figuring net income certain deductions shall be made, listing them as follows:

First: The necessary expenses actually paid in carrying on any business, not including personal, living or family expenses. This would include the wages paid hired men, cost of feed and seed purchased and so on.

Second: All interest paid within the year by a taxable person on indebtedness. This would include interest on a mortgage upon the farm, the stock or the machinery.

Third: All national, state, county, school and muncipal taxes paid within the year.

Fourth: Losses sustained during the year, incurred in trade or arising from fires, storms and so on, and not compensated for by insurance. This would include damage to crops by hail, to buildings by fire, and so on, provided it was not covered by insurance.

Fifth: Accounts due and actually charged off, during the year, as worthless.

Sixth: A reasonable allowance for the exhaustion, wear and tear of property arising out of its use in the business. This would include wear and tear on farm machinery and depreciation of buildings.

In computing his net annual income, therefore, the farmer first takes his total gross inco e—all that he has received throughout the year—deducts therefrom the amounts exempted in the preceding paragraphs and then pays the income tax upon whatever amount this balance is in excess of the $3,000 or $4,000 exemption, depending upon whether he is married or single.

I hope I have made myself clear; if not, I will be glad to take up individual cases if my readers will write to me direct. I put the whole matter up to a Washington authority recently and here is a paragraph of his answer:

> The new income tax will fall upon farmers just as it will upon all other individuals, except that the farmer will probably find it more difficult to make his returns comply with the regulations that are to be issued. He will be expected to list as his income the increase in the value of his land and stock, as well as the income from his crops, while on the other hand, he will be supposed to set down as an offset the depreciation of farm machinery and buildings.

It only remains to add that the tax will have to be paid by farmers, as well as by city men, for the ten months from March 1, 1913, to January 1, 1914, while in future years the returns must be made by the farmer, under oath, to the collector of internal revenue for his district.

This, in brief, is the working of the income tax as it affects the farmer. I shall have more to say upon the subject from time to time, as occasion demands. Personally, I believe the tax is a fair and just one and that every patriotic American can well afford to give back to the government this small percentage of what he has been enabled to earn under a stable and upright government. The law for the time being may be indefinite and ambiguous, but it was demanded by a majority of the states, acting as the federal constitution requires. It is now our duty, as loyal American citizens, to obey it, helping the authorities to enforce it to the best of our ability.

THE FOUR R'S OF LEARNING.

THE three R's of the country school when I was a boy (reading, 'riting and 'rithmetic) are about to be increased to four, by the addition of roads. I am inclined to think that more will be done to bring about permanent good roads by taking up the work in this manner than by most, if not all, the gigantic bond-issuing plans thus far formulated.

The present plan is not only to have classes in the fundamental principles of road building in the rural schools, but to use the schoolhouses at night for short courses to which the entire countryside will be invited. There is much about road building that can be successfully taught in the public schools. For instance: the effect of good roads upon public health, the necessity of proper drainage, the selection of materials, the fundamentals of engineering, and so on. Within the past few years there has been a marked tendency toward making rural schools more practical. Nowadays, in thousands of grain-belt rural schools, you will find the children learning arithmetic through problems which deal with farm work: the cubic contents of a corncrib, the value of a wheat field of so many acres, at so much per bushel, and so on. The plan to teach the fundamentals of road building is simply in line with this, making country schools more practical, localizing the courses of study and interesting the young minds in things which they can easily grasp because of daily association.

I am a firm believer in the policy of using schoolho_ses at night for public gatherings. If the state highway commissions co-operate with the federal bureau of good roads, some very interesting and instructive programs can be arranged, including talks on road building, moving pictures of road workers and practical advice on what local materials are best adapted to local needs and local purses.

Good roads will come in this country when the people are a unit in demanding them. The reason so many of the far-reaching, bond-issuing propositions have been turned down by the people is because these propositions have been devised by a few men, who have assumed the task of leadership, often without understanding local conditions and local needs. A few weeks ago it was heralded far and wide that Pennsylvania would issue $50,000,000 worth of state bonds with which to build an elaborate system of permanent roads. But when the proposition was put to the voters at the recent election, it was defeated. The people had not been consulted in the plans.

Road-building reforms, just as much as political reforms or anything else, must come up from the people, and not down from a few self-chosen leaders. The beginning must be made with the individual. When the farmers of a township are a unit in demanding good roads the movement will spread to the county; from the county to the state; from the state to the nation; and then the country will be ready for the big, far-reaching plans for which it is not ready now, because the work has not been begun in the right manner and at the right place. I see no single factor more likely to bring about this unanimity of road sentiment than the movement to educate the people to the advantages (financial, moral and physical) of good roads through the medium of the country school. I shall follow the progress of the campaign with interest, but even now, at its very beginning, I have enough confidence in it to predict that it will make good, and that its effects will not be long in coming.

PROSPERITY.

I HAVE been greatly interested the past few days reading a number of items printed in a daily newspaper of the grain belt under the general heading "Prosperity." These items deal with sales of farm lands and record prices brought by farm products. They show that prosperity has struck the grain belt as never before and that the farmer is on the top of the wave.

When you put a couple of these "Prosperity" items in contrast with a couple of quotations showing how our forefathers and even some of our present-day cousins farm they are all the more striking. Before I share these "Prosperity" items with you I want you to consider this description of farming as it was carried on in our own country in Washington's days. The sentences were written by Washington himself:

> A piece of land is cut down and kept under constant cultivation, first in tobacco and then in Indian corn (two very exhausting plants) until it will yield scarcely anything; a second piece is cleared and treated in the same manner; then a third and so on, until probably there is but little more to clear. When this happens the owner finds himself reduced to the choice of one of three things: Either to recover the land which he has ruined, to accomplish which he has perhaps neither the skill, the industry nor the means; or to retire beyond the mountains; or to substitute quantity for quality in order to raise anything.

Such was farming in Washington's day, a haphazard, hit-or-miss method of tilling the soil, without thought of rotation of crops, conservation of the elements of fertility or anything but the immediate present.

"But," you say, "all that is changed now; we know better; everything is different." Very well then, consider another picture, painted by the author of a book called "The Southern Highlanders," which deals with the farmers of today in the Appalachian mountains, a hundred years behind the times. Here is his picture of farming as it is carried on in that section in this enlightened day and age:

> "Thar, I've cl'ared me a patch and grubbed hit out—now I can raise me two or three severe craps!"
>
> "Then what?" I asked.
>
> "When corn won't grow no more I can turn the field into grass a couple o' years."
>
> "Then you'll rotate, and grow corn again?"
>
> "La, no! By that time the land will be so poor hit wouldn't raise a cuss fight."
>
> "But then you must move and begin all over again. This continual moving must be a great nuisance."
>
> He rolled his quid and placidly answered: "Huh-uh, when I move, all I haffter do is put out the fire and call the dog."

I have purposely given you these two pictures—one of farming in the early days, even by the best of farmers; the other of farming today, by the worst of farmers—in order that you may compare them with two "Prosperity" items which I give verbatim from the daily newspaper. Here is the first one:

> Park Way, a Marion county, Iowa, farmer, who owns 480 acres of the best Iowa soil in Liberty township, fifteen miles southeast of Knoxville, has realized a total of $27,054.14 from the products of that farm since February 2d. The products consisted of 675 hogs marketed between February 14th and October 25th; 148 steers marketed August 12th and October 13th; one bull sold for $105 July 1st and 2,760 bushels of wheat sold August 12th. The stock was all sold to one Bussey firm.

Here is the second one:

> With $9,000 in the bank from one year's crop of onions on twenty acres, M. Luger and W. D. Luger, farmers near Osseo, Minn., declare their farm has been better than a gold mine. Planting Red Globe and Yellow Globe onions, these two farmers harvested practically 600,000 pounds of onions, and sold them for $1.50 a hundred. The total receipts averaged $450 an acre, which is considered a high price for Hennepin county real estate.

Could any contrast be more striking; could anything more conclusively show the great advance made by the grain-belt farmer? I have traveled extensively on three continents. I have been in the richest countries of South America, where cattle graze on rich, lush grass all the year around and where millions of acres of land are to be had for a few dollars an acre. I have been in the European countries which many men hold up to us as the farming models of the world. I have traveled all over the United States, from the Atlantic to the Pacific. I want to say to you, right here and now, that in my humble judgment the world has never seen such advanced, progressive and prosperous farmers as are to be found in the grain belt today; the world has never seen such advanced, scientific farming as is going on round about us every day.

It is all very well to hold up an incentive, to make the goal still a little further on; it is wrong and unjust to belittle the grain-belt farmer by overpraise of farmers elsewhere or of another day. "Prosperity" farm items are to be found on every hand; let us give due and proper credit to the man—the hard-working, clear-thinking, far-seeing farmer—whose industry, thrift and careful attention to every detail of the fine art of farming have made these items possible.

James M. Pierce

THE EXPERIENCE MEETING

Swapping of Facts Learned by The Homestead Busy Workers

"The Experience Meeting" has been made a regular department of The Homestead, to appear week by week. It will consist entirely of letters written by farmers telling their experiences and observations in the field, the feed lot and around the farm generally. They will deal with what the writers have learned, either by personal experience or observation, in actual farm work; a helpful device, a method of increasing some crop, a division of the household work so as to secure best results, and so on. The Homestead would like very much to have every reader participate in this experience meeting. Send in your letters right away, on any farm subject, addressing them to the editor of The Homestead, Des Moines, Iowa. If all will participate this new department will become invaluable.

TRIED SEVERAL VARIETIES.

To the Editor of The Homestead:

You ask your readers for their experiences with the ever-bearing strawberry. I will give my experience, hoping it may help some others.

Three years ago last spring I bought four varieties, the Superb, Francis, Americus and Productive. At that time they cost $3 to $5 a dozen. I discarded the Productive variety after the second year. It only bears in spring and fall and is rather small in size. Of the other three the Superb is far the best in regard to size, productiveness and market qualities. If given hill culture I never saw a plant outyield it in the spring. I raised some this spring. Seven of these berries laid side by side measured twelve inches across.

In a month after bearing a full spring crop they will be full again and continue to bear until the ground freezes. I have plants now loaded with bloom (November 15th). On account of the extremely dry summer there were few summer berries this year. Last year they bore all summer until late in November. I have tried most of the spring varieties and intend to plant three or four acres next year. I shall plant very few except the Superb.

I tried the Progressive this year, but could not tell what it would do on account of the drouth.

G. W. Harrison.

USES BOTH SILO AND SHREDDER.

To the Editor of The Homestead:

I have done some shredding for the last ten or twelve years, for although I have a silo, I can't put all my corn in that. Most of the corn that is left from the silo is put into big shocks until it is dry. Then I hire a large shredder, one that is fed from both sides and costs $1.50 per acre or $1.50 an hour, this being in addition to the cost of coal which is about $5 a day. This outfit will run through about fifteen acres a day where the corn goes sixty bushels to the acre.

I like to have the shredder fodder blown directly into the mow, but if more room is required I build a large feed rack into which the fodder is blown. This is located where the cattle can run to it and then you can push it down as you want it. Sometimes there will come a snow and if this gets mixed with the fodder it will heat and make good silage. I generally leave a few acres to feed in the shock. With the fodder shredded and close at hand you have your feed where you can use it any time and without waste.

Butler Co., Ia. W. Compton.

MAY THE FEVER SPREAD!

To the Editor of The Homestead:

This is about the time of the year for me to catch the road-dragging fever. I have two attacks a year, one in the spring, about the time the ground hog comes out. This one lasts until spring rains are over. Then in the fall it gets me again and lasts until the roads freeze up.

It is so easy to drag a road. Last week I was plowing for oats and as it is almost one-half mile to the field and I can go along the road, I hitched to the drag and rode to the gate, then left the drag until noon and rode back to the barn lot. See how easy that is? I always leave my drag by the side of the road near the driveway, and about every time I have the team out, at any kind of work, I take a turn on the drag. A road that is dragged after each rain doesn't get so muddy in the spring nor so dusty in the summer, as one that is allowed to get all cut up. Good roads make a good country.

This township is replacing all wooden culverts with ones built of concrete, and I don't know of a mile of road that is not dragged. No, we don't all have automobiles. Some have, but a lot of the farmers in this section are "queer" enough to believe that a big-body, low-wheel, double-action manure spreader is a greater asset on a farm than a buzz wagon. It is all right if you can have both, but, brother, just take a tip from me and get the spreader first.

Take your family to the circus in the spring wagon, over a well-dragged road, and the Lord will smile on you and men will rise up and call you blessed. I. P. Leach.

Grundy County, Missouri.

A FEW OF THE FINE POINTS.

To the Editor of The Homestead:

Whether selecting corn for seed or show one should pick out the very best ears possible. So much has already been said about the selection of corn that it seems almost as if it were a useless repetition to again mention what has been discussed so many times, but for the benefit of the man who is this year for the first time turning his attention to the selecting of good seed corn, a few remarks seem advisable.

The first and most important point this year, and in fact any year, is the selection of seed corn in market condition. Select ears that are sound. See that there are no smutty or decayed spots on the ear. Watch out for the purple mold that was so prevalent two years ago.

Cylindrical ears are the best, but this point is not considered as important as deep square kernels with broad germs. (The average farmer will not have time to examine many germs, but if the kernels are broad and deep the germ is usually all right.) The medium rough ears usually have the deepest grains, while on the very smooth ones the grains are shallow.

Choose ears, where possible, with a deep, well-rounded cavity at the butt. A well-covered tip is pretty, but not essential to a good ear of seed. The kernels should be uniform and in straight rows that do not run out before they get to the ends of the cob. The cobs should be all of one color.

After some practice a mere glance at the ear as the shuck is stripped from it is sufficient to determine whether you want that ear to go in your wagon bed or in your seed box on the side of the wagon.

Howard Co., Mo. E. L. Hughes.

TWO YEARS' EXPERIENCE IN SHREDDING FODDER.

To the Editor of The Homestead:

I had my corn shredded for two years and like it for feed. While at first thought it seems rather expensive, still when you consider husking the corn out of the shock, tying it up and then hauling it to the feed lot, I believe shredding is the cheapest.

In this locality we have to pay 6 cents per bushel for shredding and furnish all the help except the machine men. If the fodder is stacked it will require four men to pitch, one man to haul the corn away and one man to mow the fodder away. If you shred from the field it will take from six to eight teams to draw it in, according to the distance.

Be sure to have the fodder dry when you shred it, otherwise it will spoil. Always put it in the hay mow or in a shed, if possible, as it should be kept dry, and besides, it is hard to handle in a wind after it is shredded.

When feeding dry fodder I make a practice of giving a little oil meal to the stock as it keeps their bowels in good condition and there is no danger of indigestion. I also see that they have access to plenty of salt and water.

Faribault Co., Minn. Subscriber.

INBREEDING TOO EXPENSIVE.

To the Editor of The Homestead:

To produce a pure-blood animal, inbreeding should take place five times. In doing this we set aside the law of diversity in life as set forth in all things natural. There are no two things alike. No two leaves on a tree are alike, nor are there two beans in a sack alike. Without this great diversity in life, life could not exist. It would degenerate and finally run out. Therefore, to inbreed would be using the same blood five consecutive times which would tend to weaken the offspring. Were the human race to indulge in inbreeding to this extent we would be a race of hare-lips and imbeciles. And yet the same laws that govern the human family in this respect should also apply to the brutes.

In Europe the crowned heads are such sticklers after royal blood that they are all relations, resulting in the weakening of their offspring. Owing to serious infirmities, the czarowitz can never succeed his father as czar of Russia. There is lunacy in the royal family of Austria and some of the German principalities, also in Belgium; the kaiser has but one hand, a mere lobe taking the place of the other hand, and the king of Spain has two deaf and dumb children.

Here are a few instances that have come under my own observations: A company paid $3,000 for a blooded stallion, a fine looker. He got just one colt out of a large number of mares served. I went to Ft. Scott to buy a fine gray Percheron stallion. After reaching there I found the owner had sold him into a big transfer team for $100 because he had gotten but two colts out of some fifty mares served.

Two expensive red hogs were brought in here. The male became coon footed, getting down on his joints and finally dying. The sow went to the butchers as a two year old without reproduction.

Several years ago a man suffering with an attack of rooster on the brain brought a high-priced bird down here. I went to see him. He was a big, stupid looking thing, seemingly without energy to reproduce himself or whip a duck.

These, of course, are exceptions, yet they show that the disposition of inbreeding is to weaken the offspring.

To increase the vitality of blooded stock, I would suggest the raising of pure bloods in the cross. For instance, mating all the draft horses together in their class; the saddle and harness horses in their class; throw all the milk stock together. The best milk cow I ever owned was a pure-blood cross between the Holstein and the Jersey. The Holstein increased the size and flow of milk in the Jersey while the Jersey added to the butter fat in the milk of the Holstein.

Some of our hardiest hogs are crosses between the Berkshire and the Duroc. A. L. Brace.

Taney County, Missouri.

LOW HEADING BEST.

To the Editor of The Homestead:

My experience convinces me that the low-headed tree has three very important advantages; it is easy to spray, easy to trim and easy and economical to pick. Most of my apples can be picked standing on the ground, and when one is paying $2 per day for pickers it can easily be seen how much can be saved in "toting" and placing heavy twenty and thirty-foot ladders, crawling up, reaching out, far beyond, to get a peck perhaps, and then down and change position.

I can spray and pick my crop at perhaps one-half the expense of the high-topped trees. Then, too, in stormy weather the wind has not one-half the purchase on my trees that it has on a high-trimmed tree. I can see but one doubtful advantage of a tall umbrella-shaped tree, and that is that one can drive under it, and cultivate it perhaps. But when it comes to orchards, intensive cultivation is about outrunning its advantages.

In this middle-western country I believe it will be found a good and wholesome practice to let the ground around full-grown trees rest for a few years. What if the grass and weeds do grow? Cut them occasionally and let them lie, as they are nature's best fertilizer. Let your trees work for themselves sometimes and see how much quicker and more beautiful they will color up. Besides, when a tree has its growth why intensively cultivate when it merely produces more tree growth? A good layer of grass and even weeds will protect the ground from the hot sun and that makes a good thing a hot, dry season.

Marion County, Mo. C. M. Fette.

LOW-PRICED HOGS—HIGH-PRICED MEAT.

To the Editor of The Homestead:

Here is what the hog does after he leaves the farmer at 8 cents per pound until he reaches the consumer at 30 cents per pound.

First, in every small village there are from two to four stock buyers who buy hogs from the farmers, and they have families to keep from the profits they derive from handling these hogs. Then comes the railroad that must haul the hog to market and must have enough to keep up expenses and support a lot of high-salaried officers. The stock yards with their vast army of employes must have living expenses for handling Mr. Hog and after them come the commission men, then the packing houses with their workmen, all with families to support. The traveling salesman and the retail man must have their living and then, though I mention it last, it is not least, the board of trade has a whack at the hog also through the grain that it takes to produce him. Is it any wonder considering all who must have a profit off the hog, that the price jumps from 8 cents at the farmer's pen to 30 cents on the consumer's table?

Allen Co., Kan. A Hog Raiser.

NEW WAY TO SALT MEATS.

To the Editor of The Homestead:

I have just discovered a novel plan by which some fanciers are preserving meat in warm weather. One realizes that often meat will spoil before the salt reaches the bone when salted in the old way. Seeing how the doctors used the hypodermic syringe, this man constructed an instrument something after the same order, but considerably larger, with which he squirts the salt brine to the bone at the start. So there is no spoiling of the meat before the salt from the outside can penetrate to the bone where the spoiling always begins. He says that he has never lost a single joint of meat in the five years he has used it. Before he discovered this method of preserving meat his losses were heavy each year. Many other farmers in his neighborhood have tried out his plan with good results. I am sure that the man who follows this plan will have greater satisfaction in preserving his meat in the warm weather.

W. D. Neale.

Malcolm H. Gardner, superintendent of advanced registry, Holstein-Friesian Association of America, writes: "I am advised by preliminary reports that the Holstein-Friesian cow, Crown Princess Maxie DeKol 2d, 118991, has broken the record for fat production in the senior four-year class of the thirty-day division, by producing in thirty consecutive days 113.8 pounds of fat from 2,588.4 pounds milk. She freshened on September 5th, at the age of four years, ten months, twenty-three days. Her sire is Royalton Johanna DeKol 44596; her dam, Crown Princess Maxie DeKol 90415. She was bred by Mr. J. S. Clifton, Alvordton, Ohio; and she is now owned by Mr. G. W. Rising, Fayette, Ohio. She displaces Agatha Pontiac 99818, whose record for thirty days is 112,081 pounds of fat from 2,365.5 pounds milk.

Big Ben

8,760 Hours on a Drop of Oil

20,000 Jewelers say that Big Ben does *more efficient work* for less pay than any other clock built. He's a regular glutton for good work.

In return for one little drop of oil Big Ben will work for you a full year. From "Boots on" to "Lights out"—365 times—he'll guarantee to tell you the time o' day with on-the-dot accuracy. He has made the same guarantee over 3,000,000 times and made good every time. He'll make good for you. More than $8,000,000 has passed over good jewelers' counters for Big Ben and his brothers.

A Big Ben battalion, over 3,000 strong, leaves LaSalle, Illinois, every day. Every one of them feels proud of his triple nickel-plated coat of implement steel; his dominating seven-inch height; his large, bold figures and hands, and his big, easy-to-wind keys. No other clock can match their looks and ability to serve.

Things move with a will when timed with Big Ben. He'll wake you *gradually* by ringing every other half-minute for ten minutes or rout you out in a hurry with one long musical ring. Suit yourself how he does it. You can shut him off short in the middle of his call, if you wish.

He is built in a live town for live wires. And his best work has been on the farm. Before-breakfast chores are started *right on time* when Big Ben time is set. *He never oversleeps.* He runs on time, rings on time and stays on time.

If your jeweler doesn't sell Big Ben, send a money order for $2.50 to his makers—*Westclox, La Salle, Ill.* He will come to your house by express or by parcel post, all charges prepaid.

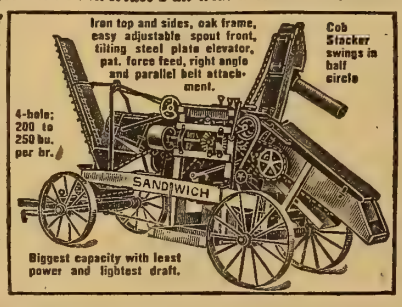
SANDWICH Iron sides CORN SHELLERS

Turn Idle Power Into Gold!

Every winter—when your team or engine is idle—you can clean up $600 to $1000 shelling corn for farmers all around you. Lots of hustlers with Sandwich Shellers make more than that. Figure your nice fat fortune in five or six years. Yet the Sandwich will mint you money for a life-time! *William Arnold, Red Oak, Ia., shelled 1400 bu. in 7 hrs. last Fall with a Sandwich 4-hole in constant use since 1868!*

Beware of "Copies"

The world's first Power Corn Sheller was born in our factory before the civil war. Now most makers copy it—as far as the law allows. Others try to substitute. But all have failed. For imitation means limitation. Without Sandwich inventions they can't equal Sandwich performance.



Your Own Terms

We cut out the jobbers' profits by selling direct to you through our own organization of branches and agencies everywhere. You get the terms you want besides. And you pay us from your first year's profits—the easiest way to get in the shelling business.

First call—Top pay

You will get them both from Farmers who hire their crop shelled. They've learned from boyhood that the Sandwich *no-choke screens* turn the corn out clean as a whistle—soft, sound or frosted. Then the corn grades highest. So Sandwich sales lead other shellers 300%.

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Wherever you live, however much or little corn to shell, this Free Book shows a Sandwich Sheller to meet your special needs. It gives you the heart-to-heart facts on sheller construction and operation. A postal brings it postpaid. It's your first step. Write today.

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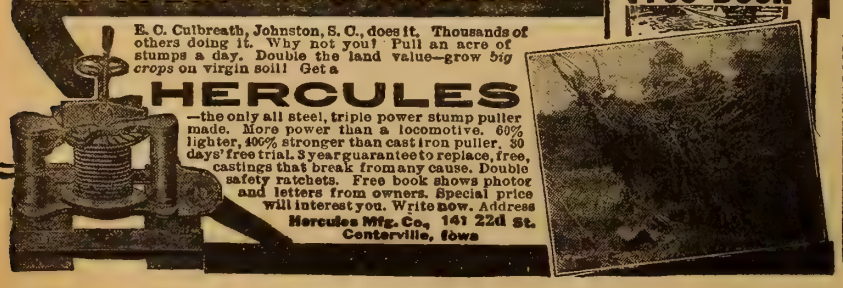

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FARM FURROWS

TURNED BY A PRACTICAL FARMER

If everyone would observe the rules of the road, accidents would be fewer in number. I am surprised, however, whenever I go to town on a "big day" to see how many "jay" drivers there are, meaning those who are driving on the wrong side of the road or street or who turn wrong when turning out.

The public sale season now seems at its height. Those who plan on making a change before spring ..re selling now. There will be another grist of sales just before the first of March, no doubt. All property is selling well.

I am impressed with the galvanized steel culvert when it has been put in right, but when it is thrown on top of the ground and a little dirt rolled over it I am likewise impressed with it, but in a different way. Such humps also impress the automobile drivers.

The civet cat (small skunk) is not the pest it might be when the cribs are filled with corn. They can go where a cat cannot, and they are just as good mousers. They will suck eggs and kill small chickens, but I have observed they do not when there are plenty of mice around the premises.

This has been a great fall for everything sown since early September. Some of the wheat is getting rather large. In fact, it should be pastured rather more than most of it has been. Too great a growth made before winter is just as detrimental as not growth enough. Those who have wheat and have it fenced so it may be pastured are saving much feeding.

I have been watching those who have done considerable of it in the past two years, and am convinced that manure cannot be used to better advantage than on alfalfa. It makes a wonderful difference in the hay crops, really making more value by increasing this crop than if used on corn land. Of course, when a person has enough it is enough, but few of us have too much alfalfa.

The cost of maintaining a good fence is greater than most of us realize. Posts are rotting all the time, and some along the line usually need replacing every year. Where a fence is not needed it is better to have none—that is, if you want to cut down expense bills. Fields divided too much by fences often cause extra trouble in farming.

When the wood frame in farm machinery was discarded and machines were made almost wholly of steel and iron, it was said that sheds for machinery were no longer necessary, as, being of iron and steel, machinery would take no hurt if it did stand out in the weather. That has proven a great mistake. The all-steel machine loses strength by rusting and rotting, not as rapidly as does wood, but to a greater extent than most of us think possible.

The catalpa is certainly a great tree for quick growth and for post material of lasting qualities. Most quick-growing timber is worthless for post material, but the catalpa is an exception. While very light, catalpa is very strong, and it has great lasting abilities in the ground.

The road-dragging season should not end the first Monday in November just because the township trustees settle with the road supervisors on that day. The dragging just before the ground freezes up is the best one of all.

I hauled a two-ton load on a low-wheeled, broad-tired wagon, the other day, and a few days later hauled a similar load on the common narrow tired farm wagon. I have a kindly feeling toward the low wheels and broad tires for use about the farm, but this one test convinced me it is not the combination for heavy hauling on dirt roads. The load on the common wagon pulled much easier.

For a few days after being turned into the stalk field the cows are too independent to eat anything that is placed before them in the manger, but this pride does not last long. When the field is reduced to bare stalks and a few dry husks the manger takes on a different look.

The old sweep cob crusher is more out of date than the high manure spreader, but from it we learned that crushed ear corn is good feed and those who have gasoline engines will do well by getting a cob-crushing mill.

"Spare the feed and spoil the colt" does not mean that a young colt should be fed as much as a work horse. It is always possible to overdo a good thing.

After all these years, barbed wire has at last found its true place of usefulness on the farm and that is at the top and at the bottom of woven-wire fencing. A perfect fence for all kinds of stock can hardly be built without a combination of the two.

There are some farms where the buildings are in such fine shape that no repairs are necessary, but they are exceptions. As a rule there are repairs to be made that were neglected during the busy season and right now is a good time to put in the stitch that saves nine.

Do a lot of thinking on your own account before you allow a smooth-talking land agent to trade a farm four times as large as yours to you, even though he may tell you that the land is better and the climate "just about the same as here." There is reason in all things, but in "hoss" trades and land deals it is very seldom that both sides win.

It seems that there are a few who think that all our ills can be cured by law and at present are making a great noise about passing a law prohibiting the sale of veal calves in order that our beef supply may be increased. If a minimum price for two and three-year-old beeves could be fixed by law it would come several points nearer the mark they are aiming at.

Corn is selling at 50 cents per bushel at our local markets, which is a fair price, but what has become of our "dollar a bushel" calamity howlers of last summer?

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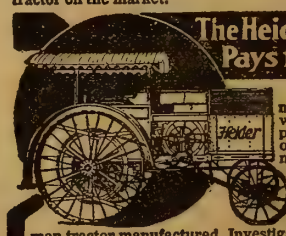

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CURRENT EVENTS

CONGRESS convened this week in regular session, following the extraordinary session called by President Wilson in April and which was of seven months' duration. The currency bill which passed the house at the special session, but failed to reach a vote in the senate, will come up for early consideration. Within a week or so, however, this bill will be sidetracked for one designed to give the president authority to build a government railroad in Alaska. It has been proposed that the machinery which is being used to dig the Panama Canal and the men who are in charge of the work in the canal zone shall be transferred to Alaska to build a government railroad in order to open up the resources of that, as yet, undeveloped country, and at the same time keep the valuable coal rights and water sites from falling into the hands of private individuals. Following this bill, congress will take up the president's program on conservation and regulation of trusts, so that the regular winter session promises to be a most busy and important one. President Wilson planned to read his message to congress in person, following the precedent which he established upon his inauguration. With the extensive program of the administration, it is many years since the country confronted a session at Washington which bids fair to be so far reaching in importance.

THEODORE ROOSEVELT continues to stir South Americans with his speeches, which are an exposition of the progressive theories. In the course of a speech delivered in Santiago, Chili, a few days ago, the ex-president pointed out the errors into which American courts have fallen lately and the need of curbing big business interests, holding that while all big business is not of necessity bad, the tendency toward monopoly makes government control necessary. In regard to the courts, Colonel Roosevelt said: "During the last half of the nineteenth century the leaders of reaction in the United States, political and financial alike, gradually grew to recognize in the judiciary their most powerful potential ally. There was very little actual corruption on the bench; on the contrary, our judges have been, on the whole, both able and upright public servants, standing on a level probably higher than that of any other civil servants of the government. As long as they confine themselves to the exercise of judicial functions they perform their duties at least as well as, probably better, than other public servants perform theirs. But their whole training, and the aloofness of their disposition on the bench, prevent their having, as a rule, any real knowledge of, or understanding sympathy with, the lives and needs of the ordinary hard-working toiler." Colonel Roosevelt pleaded for the judicial recall, the initiative and the referendum, holding that the people should have the first word and the last word on all important subjects of making and executing laws. The Roosevelt speeches in South America are being used as progressive campaign material and are being given widespread publicity in this country.

REBEL victories continue in Mexico, with good prospects of the early downfall of the Huerta administration. The bulk of the rebels' campaign has thus far been conducted in the northern states adjacent to the boundary line, but their victories have been so decisive as to give them the moral encouragement which augurs well for the future. General Huerta continues to hold the reins of government in Mexico City, but many of the newspaper correspondents are boldly insinuating that he is drinking to excess and that his administration is tottering. The Mexican ruler shows no intention thus far, however, of acceding to President Wilson's demand and President Wilson seems willing to let matters run their course, content that the failure of Mexico to float the necessary loan in Europe, together with the repeated victories of the rebels, will shortly bring about the downfall of a man who seized his office through treachery and murder.

WHY JOIN A FARMERS' CLUB?

Every farmer should be a member of a farmers' club. This is especially true of small farmers—those managing from a quarter section to a half section farm—the sort of farmers that will survive when the last bonanza farmer goes out of the farming business.

Farmers have need of consultation. The farmers' club affords this opportunity. The wives and grown-up children of farmers also should join these clubs and participate in their deliberations. In this way a genuine community spirit can be organized that will inject new life and interest in the rural home and in up-to-date farm management.

The chief objection to rural life—its isolation—can thus be removed, and its many hitherto undeveloped advantages enjoyed. Moreover, plans for co-operation in buying and selling as well as in harvesting and threshing can be worked out at these club meetings to the general advantage of the farming community.

There is always something to be learned from the experience of one's neighbor, and to learn is the same as to grow. But where there is no growth, there is decay.

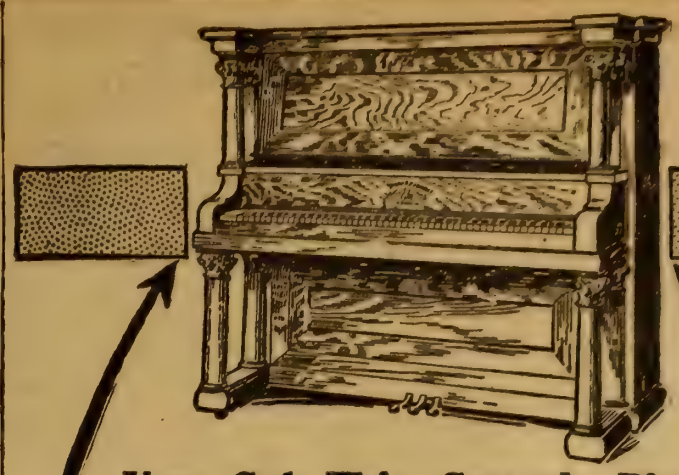
Then the young people yearn for companionship. They are entitled to it. If the farmers' club does not provide healthful companionship, they will go elsewhere to obtain it, oftentimes where it is not so morally healthful.

Farmers must get into the habit of co-operation. Large sums of money can be made as well as saved by co-operating in buying and selling. The farmers' club is a good place to meet and talk things over, to get better acquainted, and to give children a pleasant afternoon in summer time, or an evening during the winter season.

If every farming community had a social center, the boys and girls would form a better opinion of farm life, and when their parents are too old to manage their farms, the children will take their burdens off their shoulders and remain on the homestead.

By all means organize farmers' clubs.—[President Worst, of North Dakota Agricultural College.

Advices from England with reference to tuberculosis bring forward the alarming statement that the number of herds of dairy cattle in England and Scotland which are free from tuberculosis are practically negligible.



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Forerunners of the Plow.

By Rex Croasdell.

AT FIRST glance there seems but little connection between our western farm lands and the history of the gallant gentlemen of France who sailed from the court of King Louis in search of Cipango and Cathay in the seventeenth century.

But the Frenchman has been the land-looker for all of us; if it were not for La Salle, Du Lhut, Pere Marquette and their confreres, we would probably not be raising corn and Poland Chinas here today. The Saxon has been the conqueror and colonizer, but the Frenchman has laughed and traded and sung the songs of Old France in farther places; and after him has come the man of the plow and the reaper.

It is easy to spread wide a map today and decide there is nothing remarkable about the rise of great cities. But La Salle, in the closing years of the seventeenth century, stood on the site of Chicago and exclaimed with all the prophet's fire: "Here will be the gate of empire and the seat of commerce." And he was not the first there. Father Marquette, bent on pursuing the Mississippi to its mouth in the Gulf, had wintered 1674-5 on the south bank of the Chicago river. A tablet in a lumber yard marks the spot of his ancient cabin today. How many in Chicago, walking La Salle street today, know anything about the gallant man it was named for? The French also had a sort of trading post there during the eighteenth century. The first American settler reached the place in 1803. His name is given as Peter Kinzie and he is said to have purchased a house that had been built by a negro from San Domingo. In the days of La Salle the lake front was an uninviting, uninspiring stretch of bog. But he knew the advantages of location and surrounding territory.

Duluth is rather an odd name. There does not appear to be any local reason why Duluth should be called Duluth. But there is. The site of the thriving port of Lake Superior was determined by a French explorer, or adventurous gentleman, if you will. His name was Daniel Greyloson Du Lhut, or Duluth, who visited the head of Lake Superior also in the latter part of the seventeenth century. Born in France, and said to be of noble descent, Duluth, in the time of Frontenac of New France, became a leader of the coureurs de bois, or trading boatmen. It was while following that thrilling vocation that he visited the great inland sea and explored the upper reaches of the Mississippi. And in addition to deciding for posterity that Duluth was a logical site for a great city, he built a trading post on the Kaministiqua where it empties into the lake, where the cities of Port Arthur and Fort William, twin monuments to his prevision, now stand.

Simon Dawson, a civil engineer, is supposed by many Canadians to have been the discoverer of the "Dawson Route"—that magnificent canoe course through the Quetico park and Rainy Lake districts to the Lake of the Woods and Winnipeg. But La Verendrye was one hundred and thirty years ahead of him. And there were two Frenchmen ahead of Verendrye, who returned to Quebec with sixty-odd canoe loads of furs after a winter spent in the lake country. Five or six years after Duluth had built his fort at the mouth of the Kaministiqua Jacques de Noyon reached Rainy Lake and wintered there where the Rainy river empties into the Lake of the Woods. Incidentally, one of the Verendryes was the first white man to see the Rocky Mountains. That was on New Year's Day, 1743, and marked the culmination of a trading trip, with the Pacific as its objective, which was commenced in 1731. Their way was laid by the waterways connecting Rainy Lake and the Lake of the Woods with Lake Winnipeg; the Red river, the Assiniboine river, and in 1739 by way of Lake Manitoba and Lake Winnipegosis to the Saskatchewan.

The Dawson route was followed by Wolseley when he led his men west to suppress the Riel rebellion. Dawson would not go so far as to say that a railway was necessary to enable the people of Fort Gerry, the Red river and the West to do their shopping in the cities of Eastern Canada. In fact, he believed that a railway would not be operative in the winter any more than the waterways would be. So he recommended the spending, first of all, of $165,000 on the improvement of the route, building better portages and providing locks. But no one could possibly have given more glowing testimony to the splendid scenic qualities of the section.

Today there are three lines of steel linking Winnipeg with the East. In fact, the Canadian Northern follows with its rails the route that Dawson traveled and continues west along the valley of the Saskatchewan where Verendrye went in 1729. What a comparison is there today between the laborious tugging over mossy portages of a few hundredweight of goods along the imperishable "Dawson Route," or down the Saskatchewan and its connecting waters, and a sixty-car train of wheat rolling smoothly to the ships at Port Arthur and the sea! The Canadian Northern has very largely preempted this territory enclosed within the scope of Verendrye's journey. Whether its builders were influenced by a perusal of the early voyages of the coureurs de bois or by the fact that the river valleys and lake lands made possible the securing of almost perfect grades to the Pacific is not known. Or it may have been a little of both. Or it may have been the result of the reports of that railroad's locating engineers on the potentialities of the great mixed-farming districts of the Saskatchewan valley. In any event the decision has worked out to the ultimate advantage of the Canadian Northern, for the greatest permanent farming development in western Canada is taking place today, along its main and northern branch lines between Winnipeg and Edmonton. The magnificent canoe routes are for the delight of the summer tourist.

And now the pioneering instinct of the French Canadian has taken him north, beyond Edmonton into the great fertile valley of Peace river. There is some subtle, distinct method of communication among his people. When he makes a "strike" the news always seems to reach his own folk first. It is like the discovery of a new mining camp in that respect. The first intimation of a movement of French-Canadians comes only when a body so large as to attract general attention departs to the new location. The word seems to have gone out that the Valley of the Peace is a highly-favored land, because families and whole communities have moved thither, according to authentic reports. It was only recently that the newspapers of this country carried the strange story of a town in New England being practically depopulated over night. The French-Canadian inhabitants had gone to the Peace river. The fact was not disclosed until the trek began. In this they were giving expression to their dominant characteristic. They never disclose their intentions; neither do they give publicity to their successes, but it is usually profitable for the outsider to follow the lead of the pioneering French-Canadian when he seeks out new territory in strength; his outstanding qualities make him an excellent farmer. His genius as a woodsman and his patience and perseverance stand him in good stead. He can build him a home quickly and knows the secrets of how to make old mother earth give to him of her increase.

From the information that has been gathered of his new habitat, he has chosen a splendid country. The land is remarkably fertile. There are big stretches of prairie at unexpected points throughout the Grande Prairie and Peace valley districts. The climate is mild, owing to the warm

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winds that filter through the mountain passes. It is a splendid country for stock raising and should prove to be a great mixed-farming center, in the years to come. Even so soon there are many well-built communities. These are shown on a map of the country produced by the Canadian Northern Railway, which has constructed a branch from Edmonton north to Athabasca Landing. From that growing distributing point regular steamboats ply on the rivers to Lesser Slave lake and beyond, making the approach to the settlements a comparatively easy and simple matter.

Surveyors of the Dominion government have been over the land and the various federal land offices are ready now with all information bearing on the free 160-acre homesteads, and how to reach them. And the Canadian Northern has offices in the United States and Great Britain and agents who will answer accurately all inquiries. From the strength of the tide of settlers moving that way it would appear that the Peace river valley is rapidly taking a strong position among homeseekers the world over.

No one knows definitely the natural resources of the district. It is common knowledge that natural gas is spread over the region fairly well. In fact, there is a great "beacon" burning constantly north of Athabasca landing that has been blazing for many years with undiminished vigor. Prospectors and promoters who have been through during the last year hint of great oil deposits crude asphaltum—the oil that is driving more and more of the big vessels of the world's navies and which is coming into high favor with steamship companies. They talk of great iron deposits, silica sand for plate glass manufacturing, marl, asphalt, and many other things. Men who ought to know say there is enough gypsum in the country to make plaster of Paris for a continent. They speak of ochre that mixes perfectly with water and holds its color for years. And it is said to be the stamping grounds of the last wild wood buffalo.

It would really appear as if the genius of the Frenchman for locating desirable country has been vindicated again, in the Peace river country, as that of La Salle and Duluth has been endorsed in the growth of Chicago, Duluth and the farming territory on the Mississippi valley, with the passage of the years and the spread of settlement.

"Legging Up" Our Farm Horses.

By Frank R. Shaw.

IN A LATE issue of your paper I read an article under the heading, "Wintering of Horses." Had I believed that the writer simply wished to describe a method of caring for his horses through the winter, so as to bring them out in the spring carrying a fair degree of flesh, I simply should have read the article with interest, and favorable personal comment (if any) and thought no more of it. But on second reading I was impressed with the fact that horses when at all carefully wintered receive this care for a purpose, and that is that they may be better fitted for the strenuous work days which are to follow. With this thought I felt that the writer of the article had not gone far enough, and I am prompted to recall the many days and weeks of hard, tiring work which follow the winter of comparative idleness, and see if it is not possible to bring our best friend and co-worker through the winter not only in fair flesh, but fully equipped for the heart-breaking tasks before him by simple yet needed preparation while he is being wintered.

The earliest of these on most farms is breaking cornstalks or cutting them with the tiring process (for the horse) of walking all day through a tangled mass of stalks. Then comes the plowing or listing, followed by harrowing if ground has been plowed. But what is the use of enumerating? We all know the routine full well, and are thoroughly familiar with the tired leg-weary, spirit-dampened team with which we returned home after doing what we considered only a fair day's work.

At this juncture I wish to add to the "Wintering of Horses" something in addition to the feeding and stabling. A proven method which, if adopted, will bring pleasing returns in a greater quantity of labor, well and comfortably performed. This addition can be summed up in the one word—exercise. Why do our horses seem so "soft" (to use a time-worn word) and incapable of doing a hard day's work in the early spring days? It is simply because they have not been "legged up" to it. To explain this expression will say that many years ago I attended a race meeting with my father. A friend of ours had a young horse in one of the races of which much was expected. This horse won the first heat, but later was distanced. The driver in talking to my father in explaining why he lost, stated that his horse was not yet "legged up" to a race. It was the first time I had heard the expression and I asked the driver its meaning. I was told that it simply meant that his horse had not had exercise, or work enough to accustom the muscles of his legs to do the work and go the required distance without tiring; this explanation made a lasting impression, and one that has done me an incalculable amount of good in wintering horses. I talked with my father about this "legging up" process. He smiled and said that in losing a race some excuse was usually presented and he supposed this was as good as any other. I, however, took a different view at that particular time, and determined to keep track of our friend's horse and see what he would do later on. The results fully justified the driver. In his second and third races he made a better showing, but did not win. From that time on this horse did not lose a race during the entire season. This showing was pleasingly interesting to me, and was only further proof that the driver knew his horse and what ailed him in that first race.

I am wondering at this time how many of our farmers give their horses the needed amount of exercise to have them properly fitted for the hard work of the early spring. We can learn valuable lessons in this connection from the driver and developers of our trotting and pacing horses. Daily short drives through the entire winter are given. As spring approaches the drives are lengthened and the speed (their work) increased, all to the end that their horses will be in the best possible condition, from any angle where he is required to put forth his best effort in a race.

If we are to receive full returns for wintering our horses in comparative idleness, we should have them in condition to do a long, hard day's work from the first day we can get into our field, and systematic exercising is the only treatment which will put them in that condition. Personally, I would, if needed, sacrifice a little of feed and grooming rather than omit the daily exercise, if I wished to feel that I was treating my horses humanely and wintering them as I should, preparatory to the work I had to do with them later on. It requires very little time to hitch a team of horses, take the second team with you either by tying behind the wagon or beside the horses you have hitched; walk them on the road a few miles and jog them home. Often in making a needed trip to town this work can be done. Let this exercising become a part of the boy's work as well, for it is seldom that you will find a boy on the farm who does not like to ride or drive the horses. Begin this exercising or "legging up" process fully six weeks (two months is better) before you expect to start your spring work. When this begins you will be amply repaid in the increased amount of work your teams will perform and the pleasure you will derive from working them when they are as hard as nails. Let me advise from a humane standpoint if from no other, that you add exercise to your hay, grain growing and stabling in wintering horses. In actual practice, I have taken a team worked lightly through the winter, doing some work every

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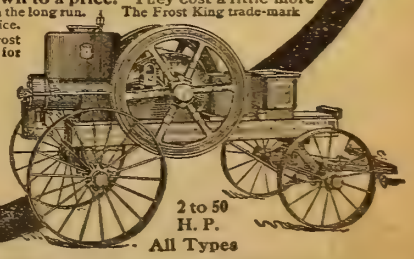

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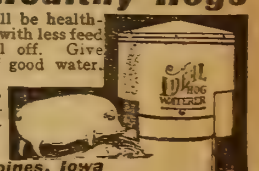

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day, and weighing 3,100 pounds when starting spring work, three months later they weighed 2,990 pounds or a shrinkage of 110 pounds. A second team doing practically nothing all winter excepting to run in a yard during the day when weather was pleasant and being led to town some eight miles to have their feet trimmed, weighed, on starting work, 3,240 pounds. After three months' work, weighed 2,910 pounds, a shrink of 330 pounds. This second team did not do nearly as much work as the first, and were favored in all the work they performed. The age, breeding and quality of these four horses was practically the same, and they all had the same feed and general care, excepting the exercise, "legging up throughout the winter. At no time for the first two months could the second team, which were not exercised, perform to exceed three-fourths the work of the team which had been in harness every day during the winter. Then, too, the second team required more care, as they came in at night with the sweat and dust crusted on them requiring extra cleaning; their shoulders and collars had to be watched carefully, while the other team came in cool and clean, and when brushed off, it would be hard to believe that they had done a long, hard day's work. Try "legging up" your horses this winter and spring particularly, and let us know later through this paper if you ever have done anything which brought you in more satisfactory results in labor pleasantly performed, and in satisfying knowledge that if an extremely hard day's work was required of your team that they were fit, all conditioned for the task.

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

COLLECTION OF NOTE IN KANSAS.

A Subscriber, Iowa City, Iowa.—I have in my possession a promissory note dated June 10, 1910, bearing interest at the rate of 6 per cent, given by a party residing in Kansas. The note has never been renewed, and no interest has ever been paid on it. Can I collect the note by law?

Answer.—If the maker of the note is financially responsible you can collect the note by law. A promissory note is not outlawed in Kansas till five years after it is due. Therefore you can sue on the note in Kansas where the maker lives, and get judgment at any time within five years after it is due.

COMMISSION FOR SELLING FARM.

Mr. C. M. B., Atlantic, Iowa.—A is in the real estate business, selling land on commission. B wished to buy a farm in a certain neighborhood, and C owns much land in said neighborhood. A informed C that B wanted to buy a farm and asked C if he had any to sell him in that vicinity, and C said he had a certain farm he would sell B, so A and B arranged to go and see it. Just before the time fixed for this, A got hurt and was not able to go, but he told B to go ahead and buy the farm from C. Thereupon B went to C's house and bought from him another farm. C now claims that he does not owe A any commission, because B did not buy the farm listed by A for sale, but another farm. On the other hand, A claims that B was his customer, and that he brought him to C, when A might have sold him some other farm. Can A recover commission from C?

Answer.—We are of opinion that A cannot by law recover commission from C for the farm actually sold to B, because there was no contract between A and C about selling that farm. It was not listed with A for sale. A became the agent of C to sell a particular farm, which was not sold. For these reasons A cannot recover commission.

RIGHT TO CONVEY LAND.

Mr. J. O. Michaelson, Sioux Rapids, Iowa.—A owns a farm in Iowa. His wife is dead, and all his children are under age. Can he sell the farm to B, and give him good, clear title by warranty deed?

Answer.—He can. He can convey to B a clear title, if he has a clear title himself. His children do not affect the matter at all, as they have no interest whatever in the farm.

MORTGAGE—SUIT FOR THE DEBT.

A Subscriber, Orella, Neb.—A bought a wagon and gave his promissory notes for the price of it and a mortgage on the wagon to secure payment. If the company that sold the wagon sues A on the notes does that have the effect of canceling the mortgage?

Answer.—It does not. The company does not waive the mortgage nor cancel it by suing on the notes.

TIGHT PARTITION FENCE.

An Iowa Subscriber.—My neighbor has made hog-tight his half of the partition fence between our lands, fifty rods of it being woven wire and the other thirty rods of it being barbed wire fencing. The barbed wire part of his fence is along a field used by him for hog pasture. He does not turn horses in this pasture but I turn horses in my field against this fence. Can my neighbor compel me to make my part of the partition fence tight, until he removes the thirty rods of barbed wire and replaces it with woven wire?

Answer.—He cannot. Before he can compel you to make your part hog tight he must make his part tight as follows, either twenty-four inch woven wire on the bottom, with three strands of barbed wire on top, or eighteen-inch woven wire on the bottom, with four strands of barbed wire on top, or woven wire not less than forty-eight, nor more than fifty-four inches, without barbed wire. In either case the fence must be not less than forty-eight nor more than fifty-four inches high.

MANURE ON RENTED PREMISES.

Mr. Henry Bolling, Central City, Neb.—A rented a farm from B. Nothing was said in the lease about manure. Has A a right to sell or give away manure accumulating on the premises during his tenancy?

Answer.—He has no right to do so.

REPLEVIN SUIT.

A Subscriber, Iowa.—A has possession of a shoat which belongs to B, and A refuses to give it up, claiming it is his property. B knows the shoat perfectly well, because it was a pet, and the only shoat he had. B went to A's hog yard and called to the shoat as he had often done before, and it came at once to him, while all of A's shoats ran away. What legal steps must B take to recover the shoat?

Answer.—B should bring a suit of replevin against A, in justice court, claiming the shoat and damages for its detention, and if he can prove the facts above stated, he will have no trouble in getting judgment for the possession of the shoat, and also damages.

PARENT'S DEEDS TO CHILDREN.

A Kansas Subscriber.—My father has twelve children. To nine of these children he has deeded eighty acres of land each, and has given nothing to the other three. He has made no will. Can the three children get a share of the deeded land when their father dies?

Answer.—If when your father made deeds to his nine children, he was of sound mind, and was not induced to make said deeds by either force or fraud, the three children cannot get any share in the deeded land at their father's death, but if said deeds or any of them were obtained by force, or fraudulent means, they can be set aside in court, and the land such deeds cover will be divided equally among all the children.

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

STORING VEGETABLES.

To the Editor of The Homestead:

There are some farmers who have no cellars in which to store vegetables for winter. To these some methods of storing vegetables in the ground may be interesting. Then many farmers who have cellars prefer to store vegetables in the ground as they do not dry out and become tasteless. Of course if a cellar is a little damp and not too warm it will keep vegetables very satisfactorily if vegetables are put in crates and kept off the damp floors.

I store my cabbage by digging a long trench with shovel or plow about six inches deep and two feet wide. Then I set the cabbage in the trench with heads down and in pairs. then throw over them a light covering of straw or grass and cover to the depth of two inches with dirt. The roots are left protruding from the ground. If the weather is extra cold I may throw over them another inch of dirt. It does not hurt cabbage to freeze if they are kept covered until they thaw out.

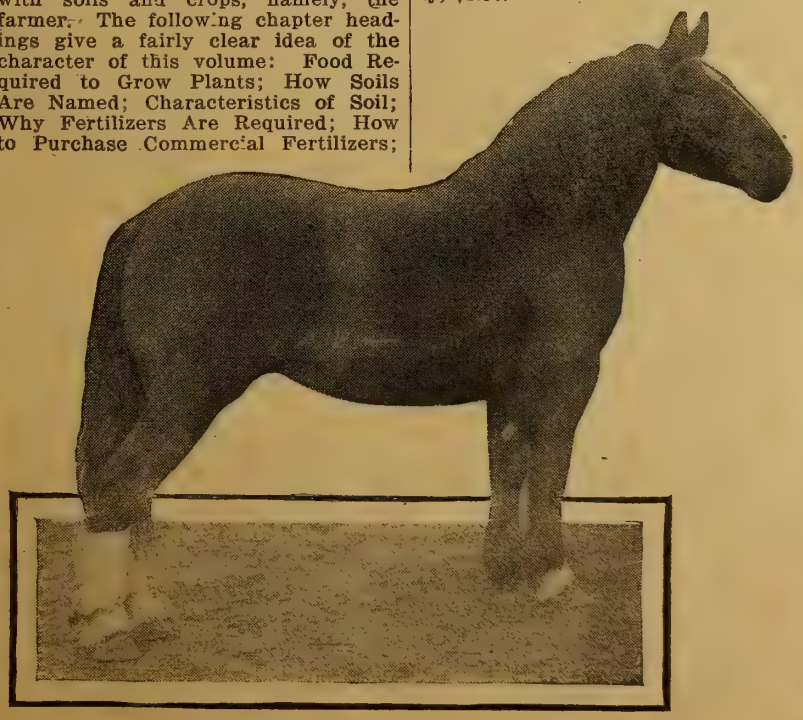
Most farmers round up the potatoes in a cone like shape, throw straw over them and cover with a light covering of soil, then pile manure over the mound to keep from freezing. One must remember that potatoes cannot stand a freeze. One year I put my potatoes in a big box, after burying it in the ground. I put a lid over and threw on a covering of leaves and piled the dirt over and about it. When the weather became cold I threw some straw on the mound and covered it with a light coat of manure from the barn. The potatoes were in first-class condition when removed from the box. Turnips can be kept in the same manner as potatoes, only it does not hurt a turnip to freeze if allowed to thaw out under ground.

Onions may be kept by burying them in boxes below the freezing point. One of my neighbors kept a wagon load of onions under a straw rick all winter. In the spring of the year he was hauling them to town and they looked fresh and fine. Subscriber.

A BOOK ON SOILS AND CROPS.

Under the above title there has just come from the press a book by Professors Thomas F. Hunt and Charles W. Burkett, and we have the privilege of examining one of the first volumes. This book is designed for two purposes, namely, to meet the requirements of the class room in the lower as well as the higher grades of schools and colleges, and secondly, to satisfy the needs of those who are dealing directly with soils and crops, namely, the farmer. The following chapter headings give a fairly clear idea of the character of this volume: Food Required to Grow Plants; How Soils Are Named; Characteristics of Soil; Why Fertilizers Are Required; How to Purchase Commercial Fertilizers; Use of Lime on the Land; Farm Manures; Green Manures; What Fertilizers to Use; Air and Water; Drainage; Irrigation; Plowing; Tillage; Harvest; What Plants Are; How Plants Live; Propagation of Plants; Insects; Diseases of Plants; Rotation of Crops; The Corn Plant; The Culture of Corn; Oats; The Wheat Plant; Culture of Wheat; Process of Breadmaking; Barley; Sorghum and Millet; Rice; Characteristics of Perennial Forage Grasses; Culture of Perennial Forage Grasses; Varieties of Perennial Forage Grasses; Legumes; Clovers; Alfalfa; Legumes for Seed; Beans; Peas and Peanuts; Cowpeas and Soy Beans; The Sweet Potato; Potatoes; Roots; The Cabbage Tribe; Fibers; The Cotton Plant; Culture of Cotton; Weeds; Improvement of Crops and Choice of Crops.

Arrangements have been made whereby this paper can accommodate its readers by furnishing this volume at the regular publisher's price, namely, $1.50.



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Liberty Mfg. Asso., 30 West Lake St., Chicago, Ill.

$35.00 A WEEK

START in business for yourself and make $35.00 to $50.00 a week handling our big, modern Line of Sanitary Medicines, Spices, Extracts, Stock Remedies, etc.

No Capital Needed—No Experience Necessary

Our line is the easiest to sell, gives the best satisfaction to customers, pays the biggest profits. Our free booklets explain why. Write today for full particulars.

FURST-McNESS COMPANY 23 Liberty St. Freeport, Ill.

A Better Barn — A Better Looking Barn

Investigate the KING AERATOR and King Ventilating System. We give you a whole year to test this great *fresh-air money-maker*—price refunded if you're not satisfied.

KING AERATOR

The KING saves more than its cost *every year* by keeping property in good shape—making livestock healthier and farm handsomer. Ask your lumber dealer about the KING. *Write us today* for helpful Free Book.

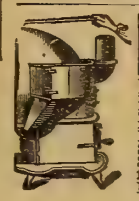
KING VENTILATING CO. Formerly Galvanized Steel Cupola Co. 1177 Vine Street Owatonna, Minn.

SHORES-MUELLER CO. Shores REMEDIES EXTRACTS SPICES

Wanted Farmer or Farmer's Son

with rig in every County to introduce and sell Family and Veterinary Remedies, Extracts and Spices. Fine pay. One man made $90 one week. We mean business and want a man in your County. Write us.

Shores-Mueller Co., Dept. 26, Cedar Rapids, Iowa



COOK YOUR FEED and SAVE Half the Cost—with the PROFIT FARM BOILER

With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also make Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P.

D. R. Sperry & Co., Batavia, Ill.

One Man One Team

CLEAR $20 A DAY

Have Your Own Business — Be Your Own Master

You will find a steady, profitable business with POWERS COMBINED WELL-BORING AND DRILLING MACHINE

You alone, with one team, can transport and operate it anywhere. Bores through any kind of soil and drills through rock. Bores 100 foot well in 10 hours. Sold on easy payments. Demand for wells is steadily increasing. Write for catalog and our Liberal Terms. Address

LISLE MFG. CO., Box 645, Clarinda, Ia.

Save Work, Time, Money

By using our low down steel wheel wagon

Electric Handy Wagons

saves high lifting, lightens draft, don't rut roads. Spokes don't loosen—wheels don't dry out or rot. Write for free book on Wagons and Wheels.

Electric Wheel Co., 58 Elm Street, Quincy, Ill.

When writing to advertisers please mention The Homestead.

Let Me Help You Get Winter Eggs

GILBERT HESS, Dr. of Medicine, Dr. of Veterinary Science.

I make my biggest egg profits in the winter months, because I see to it that my own hens lay regularly then. You can make your hens lay in winter the same as mine do.

Under ordinary winter conditions hens lay poorly, because they are cooped up, deprived of green stuff and cannot get exercise. The egg organs consequently become sluggish and inactive and the hen puts on fat instead of converting her ration into eggs. Hens must have a tonic during winter to tone them up, invigorate the dormant egg organs and keep them healthy.

Dr. Hess Stock Tonic

Your cows, horses and hogs are pretty apt to get out of fix during winter, because grain, hay and fodder do not contain the natural laxatives and tonics so abundantly supplied in grass. Lack of exercise is another thing that retards good health.

Dr. Hess Stock Tonic contains tonics that improve the appetite and tone up the digestion, laxatives for regulating the bowels, and vermifuges that will positively expel worms. I guarantee it. 25-lb. pail $1.60; 100-lb. sack $5.00. Smaller packages as low as 50c. Except in Canada, the far West and the South.

Dr. Hess Instant Louse Killer

Kills lice on poultry and all farm stock. Dust the hens and chicks with it, sprinkle it on the roosts, in the cracks or if kept in the dust bath, the hens will distribute it. Also destroys bugs on cucumber, squash and melon vines, cabbage worms, etc., slugs on rose bushes, etc. Comes in handy sifting-top cans, 1 lb. 25c, 3 lbs. 60c. Except in Canada and the far West. I guarantee it.

Dr. Hess Poultry PAN-A-CE-A

is just such a tonic. It makes hens lay. It contains ingredients for toning up the whole digestive system and enriching the blood. The U. S. Dispensatory and all noted veterinarians certify each ingredient to do what I claim for it. Pan-a-ce-a is a scientific preparation—back of it is my 25 years' experience as a doctor of medicine, veterinary scientist and successful poultry raiser. But I don't want you to try my Pan-a-ce-a on anybody's claim or say so, but on a

Money-Back Guarantee

So sure am I that Dr. Hess Poultry Pan-a-ce-a will make your hens lay during winter, that I have authorized your dealer to supply you with enough to feed your whole flock, and if it does not do as I claim, return the empty packages and get your money back. Pan-a-ce-a is never sold by peddlers, only by reliable dealers whom you know. 1½ lbs. 25c; 5 lbs. 60c; 25-lb. pail $2.50. Except in Canada and the far West. Send for my new poultry book—it's a stunner and it's free.

DR. HESS & CLARK
Ashland, Ohio

Send 2c stamp for my brand-new 32-page poultry book—it's a stunner.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

WHY SOME HENS ARE NOT BETTER.

To the Editor of The Homestead:

In this country we never had so many well-bred hens as we have today. It is not so very long ago that on most of our farms we saw only the most commonplace hens, streaked, black and white, brown and gray and all colors of the rainbow almost, and that too, on the same farm. But today we may see many choice flocks of poultry in going a little way through the farming regions.

Still, there are even yet many flocks that are far from being strictly speaking well-bred. Mixed flocks are the rule rather than choice stock. But some of these everyday hens are doing better work and making more money for their owners than are some well-bred flocks. What is the reason for this?

Have we not all heard it said of some men that "everything they touch turns to gold?" But this does not happen to be so. It is true because of some good reason, and that reason is to be found in most cases in the better way the successful men treat their average hens. Success, in other words, is more a matter of care and good treatment than it is of name or breed of fowl.

Many hens that now bring in little or nothing above the cost of keeping would make their owners rich if they could only have the best of care. Sometimes it seems as if men have had this sounded in their ears until it slips off them and makes no impression; but the man who hears and heeds will surely get good pay for his pains.

You take a flock of ordinary hens and care for and feed them as you would a lot of thoroughbreds and you will be surprised how much better they will do than they used to. How is this to be done?

Begin with the matter of housing. Hens must be comfortable to do well. Not simply to be kept warm, but to be furnished plenty of pure air will work wonders. A stale, dead, foul atmosphere will ruin the prospects for the best flock in the land, no matter how bred.

Then, too, it never pays to try to put too many hens in a house. Many of us are making a grave mistake here. We want to get the most good out of our houses and so we pack the birds in till they are all the time in each other's way. This leads to quarreling, and quarreling spoils the best of stock.

But we may do much by breeding up the stock we have. By taking eggs from the best layers, we may, in a little while, get a lot of chicks that will surprise us by their better service. To help along in this, we may get a good male bird of some neighbor who has gotten a little farther along than we have. If we are too proud to go to a neighbor near home, go to somebody outside the circle of nearby farmers. It will pay excellent returns.

The question of feed must not be overlooked. Pure feed and in quantities to suit the conditions of the flock will never fail to help in making the hens produce better. This is a great study. There must be some grain, some vegetables, some fruit and lots of milk and water, with due regard to grit, meat and bone. These things are essential with every flock in the land.

Subscriber.

POINTERS.

—John M. DeLapp, LaHarpe, Ill., advertises Bourbon Red Turkey toms on this page and quotes prices.

—Adam Young, Rockford, Iowa, has an advertisement on this page quoting prices on Bourbon Red turkey hens and gobblers.

—Lola Barnes, R. 1, Fonda, Iowa, offers for sale heavy weight Mammoth Pekin ducks. See advertisement on page 15.

—On this page appears the advertisement of Mrs. D. E. Higgins, Jefferson, Iowa, offering White Holland turkey toms for sale.

—Elsewhere on this page appears the advertisement of Mrs. L. A. Catlin, Monmouth, Ill., offering big Black Langshan cockerels for sale.

—F. Bollman, Wall Lake, Iowa, is offering S. C. Brown Leghorn cockerels for sale that ought to please. See advertisement on page 15.

—Mrs. John Holmgren, Rolfe, Iowa, breeds Rose Comb Rhode Island Reds and advertises them on page 15. She has choice cockerels for sale.

—W. W. Forbes, Jefferson, Iowa, who has been breeding Rhode Island Reds for a number of years, now offers for sale cockerels which he thinks surpass in color, size and type any that he has ever raised in the past. This popular breed still continues to receive the attention of lovers of good poultry, and

C. L. THUIRER

Breeder of

Big Type Poland China Hogs

Pure Bred White Wyandotte Chickens

Indian Runner Ducks

Farm seven miles northeast of Spencer and three miles southeast of Fostoria both on C. St. P. M. & O. R. R.

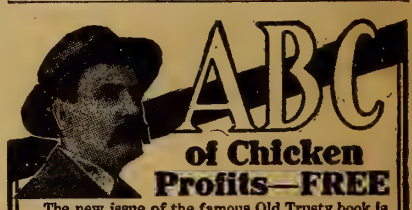
Fostoria, Iowa, Nov. 10, 1913.

Homestead Company,
Des Moines, Iowa.

GENTLEMEN:---Last spring I had a few ducks for sale and used a three-line advertisement in one issue of the Homestead, from which I received over forty inquiries from several different states. All the ducks were shipped out in a short time and I could have sold many more. There is no better advertising medium for poultry than the Homestead.

Yours truly,

Mrs. C. L. Thuirer

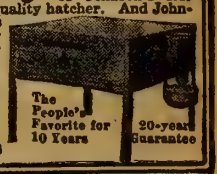


ABC of Chicken Profits—FREE

The new issue of the famous Old Trusty book is now ready to mail. Send Johnson your name and get the bedrock facts on making profits with chickens. Learn how Johnson started half a million people the simplest and easiest way with his

Old Trusty No other maker can come within $4 or $5 of Johnson's 1914 prices on this highest quality hatcher. And Johnson pays freight. Orders filled the day received—90 days trial. You succeed or trade back. Write at once for new book whether you start now or not. Address

JOHNSON Incubator Man
Clay Center, Nebraska



The SURE HATCH

I personally guarantee that with my machine the very best hatching conditions can be maintained all the time—even in freezing weather. My machine requires little attention after starting. It's automatic, economical, durable, more reliable than the hen.

U.S. POULTRY BOOK

Write for My Direct-to-You Factory Price and Save Money

Make 2 hatches and prove its success. If not satisfied return it and get your money. Big illustrated Catalog Free.

Let me send you my great U. S. Poultry Book. The only book that gives all the important facts on Successful Poultry Raising, proven by practical experience. It isn't for sale—no money can buy it. I'm giving it away. Write, if interested.

"FRANK HAMMOND, Pres.

SURE HATCH INCUBATOR CO.
Box 16, Fremont, Nebraska

Big Money in Poultry Get the Facts!

276,000 poultry raisers are making money the Belle City way. They tell you how in my new Book of "Hatching Facts." Free to you. Illustrates in actual colors my

8-Times World's Champion Belle City

You get an exact duplicate of the prize winning World's Champion machines. Backed by my Money-Back Guaranty. Jim Rohan, Pres.

Belle City Incubator Co., Box 52, Racine, Wis.

EGGS, AND WHAT TO FEED TO PRODUCE THEM

GREEN oats is the recognized feed to make hens lay in the winter time. With my Grain and Vegetable Promoter and Feed Tester you can grow three bushels of green feed from one bushel of grain and increase your egg yield one-half; also reduce your feed bill one-third. Fully explained in my book. It's free. Write for it today.

E. E. MARSHALL - ERIE, KANSAS

TURKEYS.

TURKEYS BOURBON RED — **TURKEYS** MAMMOTH BRONZE — **TURKEYS** WHITE HOLLAND

BIG, clean, heavy-boned stock at prices you can afford to pay. We breed all paying varieties of poultry. Write for descriptive circular. Mention The Homestead and address

W. F. HOLCOMB, MANAGER NEBRASKA POULTRY CO., CLAY CENTER, NEBRASKA.

TURKEYS MAMMOTH WHITE HOLLAND TURKEYS from Iowa state show winners. Toms $5; hens $3.50. Address **ETHEL H. SHAW, R. 6, NEWTON, IOWA.**

For Sale Mammoth strain Bourbon Red turkeys. Pure bred White Wyandottes. Extra good ones. Write Mrs. L. E. Miller, Norwich, Ia.

Pure Bred Bourbon Red TURKEY HENS $3; GOBBLERS $5. Write **ADAM YOUNG - ROCKFORD, IOWA.**

For Sale Bourbon Red turkeys, the big heavy-boned kind; hens $4, toms $4.50. Write **WM. OAKLAND - BLAIRSBURG, IOWA.**

WHITE Holland turkeys. White Pekin ducks, White African guineas of first-class stock, very reasonable prices. Address Edw. Dooley, Selma, Ia.

CHOICE BOURBON RED TURKEY TOMS FOR SALE AT $4 each. Address John M. DeLapp, R. 1, LaHarpe, Ill.

MAMMOTH BRONZE TURKEY TOMS for sale. Early, well-marked birds. Write for prices. Address Mrs. Wm. H. Nolin, Monroe, Ia.

WHITE HOLLAND TURKEYS A fine flock, hens, $3, toms, $5; unrelated trios; $10. Mrs. C. H. Schmidt, Route 1, Tripoli, Iowa.

White Holland Toms for sale; price $5 each. Write **MRS. D. E. HIGGINS, JEFFERSON, IOWA**

ANCONAS.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

Anconas S. S. Hamburgs, W. Minorcas, W. Leghorns, Toulouse geese. Write your wants. **J. M. HALL, WILLIAMS, IOWA**

DOGS.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collies should write us. Our stock is direct from the very best imported, and of strains noted for their winnings and intelligence. Special prices for a short time. A. A. Martin & Son, Tekamah, Neb.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

COLLIES---Breeders buy our pups for stud dogs—reason—superior stock. Airedales, by champion, Judge Dexter, Imp. Tintern Perfom. Pups, trained dogs and bred bitches. P. L. Savage, St. Charles, Ill.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

BRIGHT, intelligent Collie pups from trained stock, pedigrees, eligible to registry in A. K. C. Address Mrs. A. N. Bonnett, Birmingham, Iowa.

LANGSHANS.

BIG, BLACK LANGSHAN COCKERELS for sale $2 each or three for $5; fine ones. Address **MRS. L. A. CATLIN, MONMOUTH, ILL.**

B. LANGSHANS, Runner ducks; cockerels, hens and pullets, $1 to $3. Satisfaction guaranteed. Circular free. Bert A. Randell, Mt. Zion, Iowa.

B. and W. Langshans, S.C.B.Orps., Lt. Brahmas, R. C.R.I.Reds, M. B. turkeys, choice birds, reasonbale prices. Mrs. S. E. Newell, R. 6, Audubon Ia.

FANCY big-boned, greenish, glossy, black eyed Langshans, $5 each. Good breeders, three for $5, cockereis, pullets. H. Osterfoss, Hedrick, Iowa.

MINORICAS.

40 Choice S. C. W. Minorca Cockerels at a bargain if taken soon. Write your wants. **J. M. Hall, Williams, Iowa**

GEESE Mammoth Toulouse geese, either sex, early hatch for $3; later hatch $2.50. Address **Ethel H. Shaw, R. 6, Newton, Iowa.**

We Make the Best Coats and robes to be had. Send us your hides. We also buy. **Lincoln Tannery, Lincoln, Neb**

PLYMOUTH ROCKS.

200 GIANT BARRED ROCK COCKERELS PARIENT stock weighs up to 12 lbs. They have good combs, heavy yellow legs, deep, narrow barring; price 3 for $7, 5 for $11, 7 for $15. Choice exhibition cockerels $4 to $10 each. Order direct from this ad. and if birds are not satisfactory can be returned. **Theo. Martin, R. 6, Bellevue, Iowa.**

400 White Plymouth Rocks EXCEPTIONAL fine cockerels and pullets that will mature into extra large birds. Cockerels $3 each, 2 for $5, 5 or more at $2 each. Pullets $1.50 ea. M. Pekin ducks, large, white fowls; drakes $1.75 ea., ducks $1.50. John W. Houselog, R. 6, Bellevue, Ia.

WHITE PLYMOUTH ROCKS EXTRA good quality and sized birds. I am offering exhibition and breeding stock at reasonable prices. There is a scarcity of good birds this year so get your order in early. F. E. Ristrim, Stanhope, Ia.

IRVIN'S INVINCIBLE BARRED ROCKS POSITIVELY the best to be had. Show birds, extra layers. Pullets $2, $3 up. Ckls. $3, $4, $5 up. Buff and Blue Orpington ducks $3 to $5. 5% discount on $5 orders or over if you mention The Homestead **W. A. IRVIN - - WILBER, NEBRASKA.**

Buff Rocks Cockerels $1 to $3; pullets and hens 75 cents each. Write to **R. H. ROBERTS - CLEAR LAKE, IOWA.**

FINE BARRED ROCK COCKERELS, big bone, nicely barred, Thomas strain, prices $1.50 to $3 each. Address **A. M. Long, Bassett, Neb.**

W. P. R. Cockerels from select stock, $1.50 each, or 6 for $7.50 if taken soon. Mrs. W. S. Huber, Tipton, Ia.

BARRED ROCKS, 200 cockerels, 200 pullets. Magnificent plumage, heavy weights, low prices. Booklet free. Address **W. D. Gay, Essex, Iowa.**

A Few Good well-barred, medium dark Barred Plymouth Rock cockere's for sale. **JAMES H. HOWARTH, MOULTON, IOWA.**

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

WHITE Plymouth Rocks, pure bred, large, vigorous, snow white. Ckls. for sale cheap till scored. Satisfaction guaranteed. G. H. Blake, Oelwein, Ia.

765 BARRED P. ROCKS, big birds, with big bone. Straight narrow and distinct barring. Address **A. D. MURPHY - ESSEX, IOWA**

BUFF ROCKS—Golden egg strains. Solid Buff unscored ckls. $1; scored $1.50 up. Reduced prices on yearling hens. Write L. C. Crum, Red Oak, Ia.

WHITE Plymouth Rock cockerels for sale; won 1st, 2d, 3d and 4th on cockerels at Nov. poultry show. Mrs. E. C. Turner, R. 1, Griswold, Iowa.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY

Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City. **HENRY G. WALKER, IOWA CITY, IOWA**

Rose Comb Red Cockerels TUTTLE strain, range bred, deep red, long backs, good bone. Utility cockerels $1.50 each; selected breeders $2.50 to $5. Early orders receive pick of flock. Order at once. Address **W. W. Forbes, Box 441, Jefferson, Iowa**

S. C. Rhode Island Red Cockerels HIGH-CLASS, farm raised, dark velvety red, heavy-boned fellows that will improve your flock. $1.50 and up. Mention The Homestead. **L. G. Johnson, Box H, Steamboat Rock, Ia.**

SINGLE COMB RHODE ISLAND REDS LARGE, vigorous cocks cockerels and pullets from $1.50 up. Real Reds at right prices. Satisfaction guaranteed. J. A. Holmes, Steamboat Rock, Iowa

REDS ALL SOLD

WHITE Holland toms $4; hens $3.50 each. Write **Jesse D. Howarth,** R. 2, West Grove, Iowa.

MOUSER'S REDS (both combs) for exhibition or breeding. Silver cup winner at Omaha and other big shows. Hens $1.50 ts $2.50; Cockerels and pullets $2 to $10. W. I. Mouser, R. 5, Red Oak, Ia.

CHOICE R. C. R. I. RED COCKERELS Deep red, Early hatch $1.50 up. Address Earle Welch, Kanawha, Iowa.

S. C. R. I. Reds Both sexes, from pen headed by a $20 cock bird, $1.50 up, yearling hens $1.50 up. **Alex McNeill, Harlan, Iowa.**

S. C. R. I. Red Cockerels from $1, $1.50 and up; Fawn-Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

NINE years breeder R. C. Reds. Cockerels at bargains next 30 days, Tompkins strain, none better. Satisfaction guar. W. H. Patton, Iowa City, Ia.

CHOICE S. C. Red ckls., pullets, yearling hens $1 ea. Bourbon Red turkey hens $3, gobblers $5; I. R. drakes $1. Mrs. Laun, Riverdale Farm, Floyd, Ia.

FOR SALE R. C. R. I. Red cock, cockerels, hens, pullets and a few choice S. C. pullets. Mrs. Charles Beiz, Conrad, Ia.

R. C. Rhode Island Red Cockerels for sale. Thoroughbred, $1 to $3. **T. H. THOMPSON, KANAWHA, IOWA.**

ROSE COMB RHODE ISLAND RED cockerels, choice birds $1 and $2 each. Address **MRS. JOHN HOLMGREN, ROLFE, IOWA.**

HAMBURGS.

75 S. S. HAMBURG cockerels and pullets. Bargains to make room for winter. Address **STEVE L. MORLAN - PLANO, IOWA.**

the demand is ever increasing for this new and now well established strain of fowls.

—By referring to the advertisement of Ethel H. Shaw, Newton, Iowa, on page 14, prices on Mammoth Toulouse geese of either sex may be found.

—E. M. Norton, R. 1, Yale, Iowa, placed an advertisement on this page announcing White Orpington cockerels, White Holland turkeys and Toulouse geese.

—The Progressive Poultry Farm, Hampton, Iowa, advertises Single Rose Comb, Brown Leghorns and Single Comb Buff and White Leghorns on page —.

—On this page of The Homestead appears the advertisement of A. M. Long, Bassett, Neb., offering Barred Plymouth Rock cockerels for sale at very moderate prices.

—Ralph W. Owens, Mt. Pleasant, Iowa, announces on this page that he has for sale choice Partridge Wyandotte cockerels and pullets at reasonable prices.

—Sarah Quire, Lynnville, Iowa, is offering Indian Runner ducks, Mammoth Bronze turkeys and Buff Orpington chickens for sale in her advertisement on this page.

—Rose Comb Brown Leghorn cockerels and pullets from prize-winning stock are offered for sale by Mrs. Nelson Hyde, Manson, Iowa, in her advertisement on this page.

—John M. Hall, Williams, Iowa, is offering forty choice Single Comb White Minorca cockerels for sale at bargain prices if taken soon. His advertisement appears on page 14.

—Mrs. A. Davis, Burlington, Ill., is offering pure-bred Holland turkeys, Pekin ducks and Single Comb Buff Orpington cockerels for sale. Her advertisement will be found on this page.

—Jas. H. Howarth, Moulton, Iowa, has a few well barred, medium dark Barred Plymouth Rock cockerels that he is offering for sale to Homestead readers in his advertisement on this page.

—Under their respective headings on this page appear the advertisements of E. E. Snively, Jefferson, Iowa, in which he is offering for sale Rose Comb Brown Leghorn cockerels and Indian Runner drakes.

—Ethel H. Shaw, Newton, Iowa, can supply Homestead readers with Marmoth White Holland turkeys from Iowa State show winners at prices named in her advertisement that appears on page 14 of The Homestead.

—A. E. Goodman, Indianola, Iowa, is advertising single comb White Orpington cockerels on this page of this paper. They are of the original and most popular strains and are priced at from $1.50 to $5 each.

—R. H. Roberts, Clear Lake, Iowa, in furnishing copy for an advertisement appearing on this page, writes: "I have some fine Buff Plymouth Rocks with extra fine coloring. I have a large flock from which to select birds to supply my customers."

—The advertisement of Geo. Boyce, Newell, Iowa, offering Rose Comb Brown Leghorn cockerels for sale will be found on this page. These cockerels are of early March and April hatch and from strictly pure-bred stock. Mr. Boyce will send out nothing but first-class birds.

—Mrs. Charles T. Peacock, Plattsmouth, Neb., in furnishing copy for advertisement found on this page, writes: "My Rose Comb Brown Leghorns are pure bred and I have always bought stock and eggs so that they would not be related. My birds are of good size and fine layers."

—A. L. Anderson, Indianola, Iowa, has Golden and Silver Laced Wyandottes on which he received numerous premiums in 1913 at the Iowa State Fair. He has stock and eggs for sale in season. For prices and other information write Mr. Anderson after reading his advertisement appearing on this page.

—White Wyandotte chickens and White Holland turkeys, scoring from 90 to 95 points are offered for sale by Mrs. C. S. McLachlin, Gray, Iowa. Birds bred by this lady have won a large number of premiums wherever shown. While she is offering very attractive prices, buyers will do well to send their orders at once and get first choice.

—On page 14 there appears an announcement of Mrs. Wm. H. Nolin, Monroe, Iowa, to the effect that she has for sale a few good early, well-marked Mammoth Bronze turkey toms. These birds are grown from prize-winning stock from the pens of O. C. Bierma and Strater Bros. They are good in every respect. For prices write to the address given.

—White Plymouth Rock cockerels of April hatch are advertised on this page by Mrs. E. C. Turner, Griswold, Iowa. At the Botna Valley Poultry Association Show recently held at Atlantic, Mrs. Turner's birds were awarded second on cock, first on hen, second on hen, first, second, third and fourth on cockerel and third and fourth on pullet. They were judged and scored by Shellabarger. For special prices write to the address named.

—Glen and Mae McLaughlin make a specialty of breeding Silver Wyandotte chickens and advertise them on this page. An old poultry judge, who has been scoring birds from these flocks for the past fourteen years and who has had twenty-four years' experience in judging, says that this flock is one of the finest flocks of Silver Wyandottes in the country. Good cockerels are offered at very low rates. Address Glenn and Mae McLaughlin, R. 5, Manning, Iowa.

C. O. D. SHIPMENT

ALL BREEDS SHIPPED C. O. D. **EXTRA FINE** CHICKENS, DUCKS, TURKEYS, GEESE

WE ship all the leading breeds of fine chickens, turkeys, ducks and geese of the very heavy laying strains and large vigorous birds that must please, as we will ship them C. O. D.

FOR GREAT LAYERS AND SHOW BIRDS WRITE US. SPECIAL DECEMBER PRICES

MACOMB FANCIERS COMPANY - - - - MACOMB, ILLINOIS

WYANDOTTES.

100 BUFF WYANDOTTES

FOR SALE—100 cockerels and pullets at prices that will suit everybody. Write me the kind you want and what you wish to pay and I will describe what I have for the money. Order now while you can get pick of the flock. Address **R. B. ROWE - - - INDIANOLA, IOWA**

WYANDOTTES

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EXTRA good. Bourbon Red turkeys, two flocks not related. Mammoth Pekin ducks. Mrs. N. W. Burbank, Bonnie View farm, New Sharon, Ia.

Silver Wyandotte Cockerels Choicely marked large birds $3 each. Good ones $2 each. Twenty-six years a breeder. **O. M. HEALY - - - BEDFORD, IOWA**

SILVER WYANDOTTE COCKERELS, bred from good utility stock, for sale at $2 each. Address **Lawrence Kiplinger, Bedford, Iowa.**

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LEGHORNS—Rose and Single Comb, Buff, White and Brown. $1 each, dozen $12. Address **Progressive Poultry Farm, Hampton, Iowa.**

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Light Brahma COCKERELS

WELL-MARKED, big-boned fellows; Mammoth Bronze turkeys; Indian Runner drakes, fawn and white and a few pure white ones, that were raised from a $100 trio. Also Buff Orpington drakes and Shetland ponies. F. P. Healy, Bedford, Iowa.

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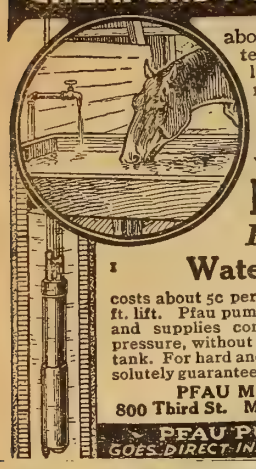

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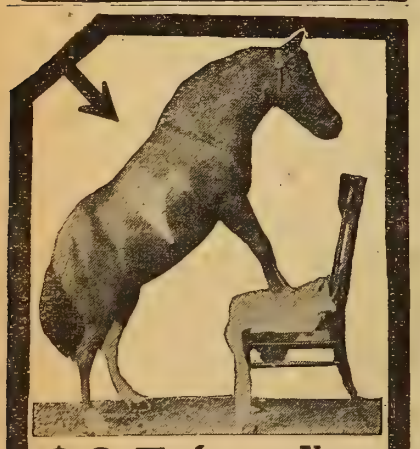

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A. M. PIPER
950 Popular Bldg. Des Moines, Iowa

WINTER FEEDING OF GROWING ANIMALS.

To the Editor of The Homestead:

Every year there is a large percentage of growing stock brought out in the spring lighter in weight than when they came off the grass in the fall. I do not know why this is so, but it is a fact, nevertheless. I am now speaking of young, growing stock. It is not necessary to carry all the flesh on a dry sow through the winter if she is due to calve next spring.

All immature animals should be kept gaining in weight through the winter. They may not carry their fat through; that is not always profitable; but they should carry their weight through, and more. What they lose in fat they should gain in growth, and make a profitable increase—with steers at least half a pound a day during the winter months. This does not necessarily apply to females, unless they are being grown for beef. If they are being grown for milk, it is not desirable to keep them in too high condition. Excessive fat and prolificacy or fruitfulness, are, to some extent, at least incompatible.

This constant growth of young things in size and flesh through the winter will be gained at the minimum of expense by feeding them a reasonably well-balanced ration, therefore a ration suitable for growth. A well-managed farm supplies this in the clover, and in many places alfalfa, in the corn fodder and the straws of the farm.

Two kinds of feed so widely different as the clovers and the straws should be fed together, not separately. All the straws and corn fodder should be balanced up with feeds that have the muscle-making elements, of which clover and alfalfa are the very best. Corn may be used, but more sparingly than is the ordinary custom. Corn itself does not contain the elements necessary for the proper growth of any kind of young stock.

Keeping immature animals growing is the only way a profit can be obtained from them. One should not, however, make the young stock he intends to put on grass along next spring fat by feeding them corn through the winter. Many have been very much surprised, after feeding their calves and yearling steers an abundance of corn during the winter, to find that they do not do as well on grass in the summer as others that were not so well fed. The reason is obvious. No kind of animal does well when turned from a good ration to a poorer one. There is more or less shock to the system to begin with, and as the animal on grass is not getting fat-forming elements that the corn furnished, it is very likely to go back, at least not to go forward in the same ratio as the animal that has been kept on a flesh-forming ration during the winter and goes right on with a similar ration during the summer.

Young stock should, by all means, be kept growing through the winter and the older cattle or other mature animals be fed a ration that contains the raw material for what they are wanted to produce. If they are to be fattened, then corn should be made the main element of the ration. If growth is desired, corn fodder or clover hay or even millet hay will do better than corn, when feeding with the one idea of growth.

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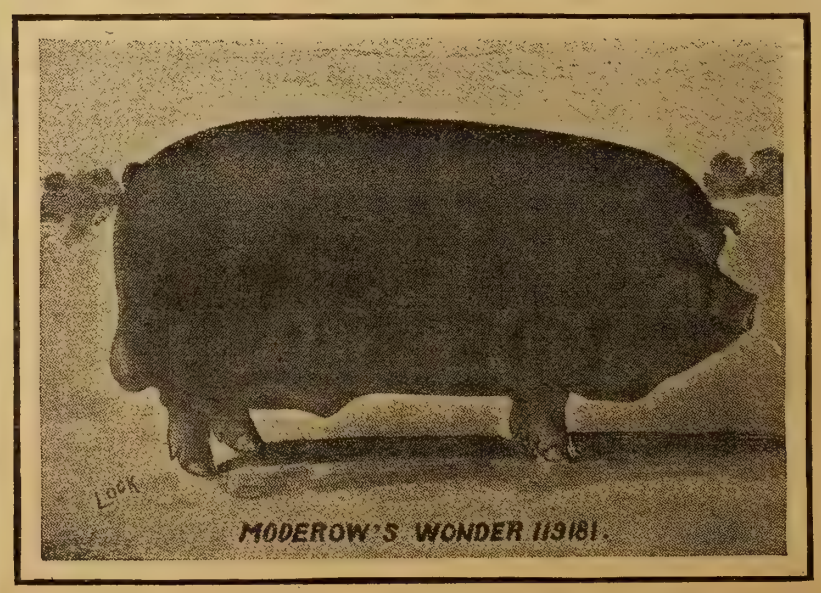
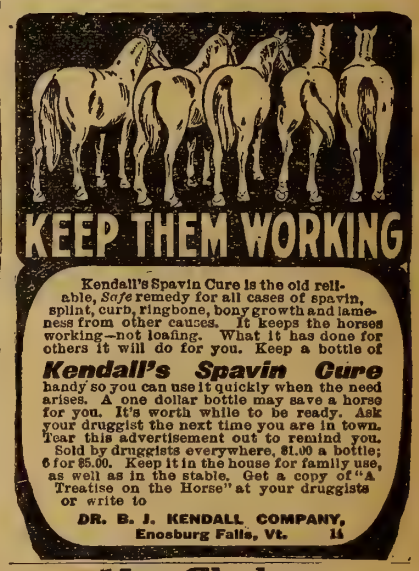
A TRIBUTE TO THE COW.

Little do we realize the debt we owe the cow. During the ages of savagery and barbarism we find her early ancestors natives of the forests of the old world. When the bright rays of civilization penetrated the darkness of that early period and man took up the march of progress he called on the cow and she came forth from her seclusion and proclaimed her willingness to share in the efforts that ultimately developed a great nation. For over two thousand years she has shown her allegiance to man. Sharing alike in his prosperity and adversity, responding nobly to all that was done for her, her development has made her an idol of the people in her native land.

Columbus recognized her merits, for she came with him on his second voyage to America in 1493 and from that time to the present day she has been a potent factor in making this, our own country, the greatest nation with the highest type of womanhood and manhood the world has ever known. Her sons helped till the soil for our ancestors and moved the products of the farm to market. They went with man into the dense forests of the new world, cleared them for homes and made cultivation possible for the coming generation and as the march of emigration turned westward they moved the belongings of the pioneer across the sun-scorched plain and over the great mountain ranges to the new home beyond. The cow is truly man's greatest benefactor. Wind, hail, floods and drouth may come and destroy our crops and banish our hopes, but what is left the cow manufactures into the most nourishing and life-sustaining food and is she not life itself to the thousands of little ones stranded upon the barren bosoms and hollow hearts of a modern motherhood? We love her for her docility, her beauty and her usefulness. Her loyalty has never been weakened and should misfortune overtake us as we become bowed down with the weight of years we know that in the cow we have a friend who was never known to falter. God bless the cow. We little realize the debt we owe her.—[Eugene Bennett, Missouri Dairy Commissioner.



The Duroc Jersey boar shown herewith is that of Moderow's Wonder, one of the great boars in use in the Wm. Moderow herd at Beemer, Neb. See field note on page 26.



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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

HEALTH OF THE DAIRY HERD.

From an economic point of view, the health of the dairy herd is of vital importance. The heavy milking cow is more subject to disease and injury than any other of the cattle kind. Though the owner does his best to protect the herd, there will be losses by disease and injury and when the herd is not properly cared for, those losses become much greater. Neglect may cause the ruin of an entire herd by disease. The prime factors in keeping a herd healthy are shelter, light, fresh air, pure water, good food and protection from injury and diseased animals. There is a heavy drain on the system of a cow producing a large quantity of milk; and, for this reason, it does not pay to withhold a generous supply of wholesome food.

The most successful herdsmen are those who have trained their eyes to catch quickly any irregularity in a cow's appearance or actions which might indicate disease or injury. Each cow should be looked over daily by the herdsmen and any ailment should be treated immediately. Prompt action frequently saves a cow. For the treatment of diseased cows, a closed stall, or better, a separated building is desirable. This should be so constructed that it can be easily washed and disinfected. There are few herds which do not at some time become infected with some disease which is more or less contagious and should be treated away from the rest of the herd. Every herdsman should be provided with some good book on cattle diseases, for reference, and to familiarize himself with symptoms and treatment. Cases not understood should not be treated unintelligently, but frequently, immediate attention is necessary and there is no time to go for a veterinarian.

Every dairyman who keeps even a small herd will find it convenient to have the following medical equipment: A clinical thermometer should always be at hand and the herdsman should know how to use it. It can be gotten through any drug store or from any firm dealing in veterinary instruments. The normal temperature of mature cows are from 99 to 102 and may reach 103 Fahr. The temperature of your animals frequently ranges from 40 to 50 and respiration (breathing) from 10 to 20 per minute. Two or three milk tubes of different lengths, a trochar and canula, a long neck pint or quart bottle for drenching, a milk fever outfit or a bicycle pump, a large syringe, or funnel, and three feet of small, rubber hose, and one graduate or measuring glass should be provided. Remember, milk tubes should always be sterilized by heat or a disinfectant before using.

The following medicines should be kept on hand: One-pound bottle crystallized carbolic acid, five pounds epsom or glauber salts, one pint castor oil, one gallon linseed oil, creolin, vaseline, carbolized vaseline, acetate of lead (sugar of lead), flowers of sulphur, hydrogen peroxide, one pint tincture of gentian. Dissolve the carbolic acid by placing the bottle in warm water and add a very small amount of water to keep it in solution. Make the carbolized vaseline by adding to a pound of vaseline less than one half ounce of the dissolved carbolic acid, then warm and stir thoroughly while cooling. Other medicines may be added and even needed, but these should always be available.

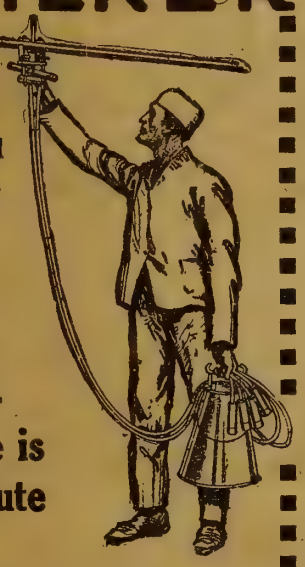
THE HIRED MAN'S INTEREST IN THE COW.

A dairy cow arouses in any man who cares for her a sense of pride and a feeling of personal interest that is not possible with other farm work. On farms where the milk from each cow is weighed and tested, and its value computed, any hired man will take a very keen interest in having his favorites make a creditable showing. One successful dairy man relates a story, of how one time after the noonday meal a discussion was started as to the probability of a Guernsey heifer in the herd making a record equal to another that was getting a great deal of publicity in regard to her production. Quietly he said the hired man left the room. When the owner went to the barn at the time to start the afternoon's work the hired man was found currying the favorite. Could that hired man be trusted to milk that cow? Could he be depended on to look after her needs carefully? Every reader will answer in the affirmative. Let us look to the reasons for it. The cow was worthy of respect, attention and appreciation. The hired man had been allowed, if not actually induced, to take personal interest and pride in the yield of that cow. He was equally appreciative as the owner in her records.

One of America's greatest economic students recently said, "The labor problem in America must be solved by some sort of profit sharing whereby the laborer will obtain a portion of the proceeds according to his ability to produce." Is not that true of the dairy? Is it not a fact that the matter of feeling a pride and a personal interest in the dairy is a great and important factor? Every man whether farm owner or hired man feels proud of any work well done.

What is believed to be a record breaker for the largest load of oats ever hauled to Creston, Ia., by the farmers of the surrounding country was weighed over the scales at the Treanor & Girard coal, grain and implement office. The load of oats was brought in by W. J. Woods, who resides on the old Davenport farm just southeast of Creston, and contained 173.24 bushels. Mr. Woods hauled to the Treanor & Girard establishment on that day in all, 1,053 bushels. Each load hauled was larger than the one before, excepting the last load, and it is thought that all that kept Mr. Woods from putting on 200 bushels was that he ran out of material. The first load contained eighty-nine bushels, and the others in their order as follows: 112, 120, 125, 155, 173 and 117.

SHARPLES MILKER



If you know the users your confidence is absolute

America's shrewdest dairymen use over 6000 Sharples Milkers.

A good example is Hershey, the great chocolate man. He put a Sharples Milker in one of his many dairy barns and tried it out. Then in another barn and another and another, and he now milks twenty-one herds with the Sharples Milker.

Another user is Stephen Francisco, father of certified milk, and the livest wire on sanitary methods in the United States.

A small locality in Southern New York uses over 70 Sharples Milkers—the Province of Ontario milks 2500 cows with the Sharples and many thousands of machines are used throughout the continent.

An average operator milks thirty cows per hour, some milk forty, but we say thirty to be conservative.

It saves money, relieves the help problem nightmare, and insures more and cleaner milk by making healthier, better cows.

The Milker book is good. Send for it.

The Sharples Separator Co.
West Chester, Pa.

Chicago, Ill. Winnipeg, Can.
San Francisco, Cal. Dallas, Texas
Portland, Ore. Toronto, Can.
Agencies Everywhere

Let Me Send YOU My Wonderful New Galloway Sanitary Separator On 90 Days' TRIAL FREE

● I'm not asking you to buy it, understand that? I'm not asking you to buy this separator or even promise to buy it. I simply want to send it to you so that you can test it out right on your own farm free. I know what this separator of mine is. I know what it will do. I know that there isn't another separator in the world at any price that is even in the same class with it. I know these things because I have found them out by an actual, personal investigation of the separator itself right on my own modern dairy farm.

Why! when my own experts came to me and told me the results of their final tests on this machine on which they had been working for three years I'll confess I didn't think such things were possible. Now, after testing the separator itself, I know that they were justified a hundred times over in every claim made.

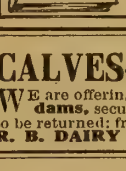
Now, I want to give you exactly the same chance I had. I want you to take this separator to your farm and test it in every way you can think of. Then, at the end of the free trial, if you can't honestly say: "Galloway, I wouldn't be without the machine you sent me at any price"... then just ship it back to me. I'll pay the freight both ways—the free trial won't cost you a single cent.

Save $25 to $50 on the First Cost Alone

If you do decide to keep the separator after the free trial, I'll let you have it at actual factory cost with only one small factory profit added. You pay no middleman's profit—I sell direct from my factory to you.

Write for My Great Special 1913 Offer

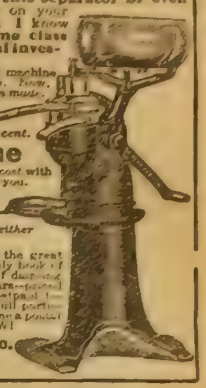
Positively the greatest offer I've ever been able to make. If you will write at once, I'll tell you how you may get one of these wonderful separators either partly or entirely free and without any work or canvassing either.



Cow Book FREE!

If you write at once I'll send you a copy of the great Galloway Cow Book absolutely free. The only book of its kind in the world. A complete manual of dairying for the farmer. Worth hundreds of dollars—sold regularly at $1.25. I'll send it free and postpaid together with my big separator catalog and full particulars of my great offers if you'll just send me a postal or letter RIGHT AWAY. Write today—NOW!

Wm. Galloway, Pres., Wm. Galloway Co.
13 Galloway Sta., Waterloo, Ia.



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WE are offering a splendid lot of calves, both **bulls** and **heifers,** of all breeds, from **heavy milking dams,** secured from the large dairies around Omaha, at **$7.50 each,** crated and F. O. B. cars, crates to be returned; from a week to 10 days old. Send me your order with check inclosed, and will ship at once.
R. B. DAIRY STATION B. OMAHA, NEBRASKA

HOLSTEIN-FRIESIANS.

HIGH-GRADE HOLSTEIN COWS AND HEIFERS

I AM offering a splendid lot of high grade cows and heifers for sale, all bred to noted bulls and fresh soon. These are from two to five years old. Write at once or come and see me. Address
C. E. VEAK - - - - - - ESSEX, IOWA.

CHICAGO STOCK FARM
Highest HOLSTEINS Quality

BULLS

BY Johanna Bonheur Champion and Maplehurst Butter Boy De Kol. In 1912 ten cows in herd averaged 880 pounds of butter.

R.B. Young, Buffalo Center, Ia.

Pure-bred Registered
HOLSTEIN CATTLE

In the production of milk and butter the larger the cow the larger the profit, other things being equal This principle has been established through the investigations of government experts and is generally recognized.

When a cow's milking days are over, size is still an important factor. The big Holstein-Freisian, weighing anywhere from 1,000 to 1,500 pounds with her clean white fat well distributed through her muscular system, proves a most profitable dairy beef animal.

Send for FREE Illustrated Descriptive Booklets
Holstein-Friesian Association
F. L. Houghton, Sec'y, Box 113, Brattleboro, Vt.

30 BULLS

FROM one month to fifteen months of age. Most of them by our great herd bulls. Many of them out of record cows. A choice lot of well-bred calves and good individuals. Send for price list. Also a few cows and heifers. All stock registered. No grades
WOODLAWN FARM - STERLING, ILL.

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Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

Thompson Farms

HAS a pure bred Jersey bull of serviceable age with a buttered pedigree. Priced to move quick. Write me at once, mentioning The Homestead.
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THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

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AYRSHIRE CATTLE.

EDELWEIS AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.

FRED TSCHUDY & SON
Monroe Wisconsin.

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GRADE GUERNSEYS and HOLSTEINS

FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

FOR HOLSTEINS
WRITE RUSSELL
T. H. RUSSELL, GENEVA, OHIO

A HOLSTEIN HERD AT BARGAIN PRICE

I WILL sell my entire herd of Holstein-Friesians nine females of breeding ages, five bulls and two young calves. They are strictly good, from the best lines of breeding, and all recorded or eligible to record. Will sell singly or in lots to suit purchaser. A low price for quick sale. Come and see them.
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HOLSTEIN-FRIESIAN BULLS FOR SALE

CHOICE young bulls—up to one year old—by a sire of high-producing record ancestry, and out of dams with good official milk and butter records. They have size and quality, and are in perfect health and thrift. Do not buy without seeing these bulls. Prices reasonable. Mention Homestead.
ELLIOTT BROTHERS. WOODWARD, IA.

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WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
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Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

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Lamps, bodies, tops and everything for the automobile at a price list on list of our 1,000 bargains.

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***Pump—Grind*—Do all power work with a 4-H. P. Vertical**

FARM CUSHMAN
All Purpose Engine

4-Cycle. Weight 190 lbs. Does all work a 1,000-lb. engine can do. 10-year guarantee. Also 6-h. p. up to 20-h.p. Special Heavy Duty Engines. Get catalog and "trial offer."
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Deal Direct with the Largest and Oldest House in the West. Highest Prices and Immediate Cash Returns. Write for FREE price list, tags and full information.

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Our Annual Christmas Combination

FeatherBed, FeatherPillows, Pair of Blankets & Bolster

GREATEST bargain ever offered. Feather Bed weighs 40 lbs., covered in 8 oz. A. C. A. ticking; pair of 6 lb. pillows, same grade; pair full size blankets and large, 6 lb. bolster. This combination would cost you at a retail store $17.50. All goods guaranteed. Satisfaction or money back. Cash with orders. Agents wanted. Catalog free.

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PATENTS---ADVICE FREE! PATENT LAWYER
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OUR SHEEP DEPARTMENT

THE sheep industry has been a neglected one in the corn belt, but it is now coming unto its own. The general introduction of the woven wire fence has made it easier for men to keep sheep and we propose from this time on to make this one of the strongest departments of the paper. We have recently secured the consent of a few practical sheep breeders to contribute articles on seasonable topics and to answer all inquiries relating to the industry. Every man who is at all interested in sheep is invited to ask questions or to contribute matter pertaining to any phase of the industry.

PASTURING SHEEP.

To the Editor of The Homestead:

The ideal way to manage sheep on pastures is to have them graze one pasture down reasonably and then put them on another pasture until the first springs up again. In this way the pasture is kept fresh and sweet. But in practice it may be frequently impossible to do this. However, where the rearing of sheep is an important part of the farmer's business it can be done to some extent.

When pastures get far ahead of sheep they should be grazed down if possible with cattle. In such a condition the sheep will not graze down the grass that has become rank and woody. By preference they will feed upon those parts where the grass is short. In such places it is shorter and sweeter than elsewhere. Where it is not practicable to graze it down with cattle it ought to be mown if possible. Whether it should be left to mulch the ground or drawn off should be determined by the quantity of the grass and its value for hay. When thus cut off grass fresh and nutritious springs up in its place.

Some object to grazing sheep with other stock. Much depends upon the way in which this is done. If the pasture is large and not in any way overstocked, there is probably no objection to the plan, but, should the pasture be overstocked or should the sheep be relatively too numerous, then the cattle will be worsted in the grazing. Sheep eat more closely than cattle and can do well on shorter pasture. Where the grazing is plentiful sheep can feed upon what is most palatable to them, and the cattle eat what they relish most. Sheep will eat off many weeds that cattle avoid and in this way they help to clean the pastures.

For winter grazing long pastures are the best. They are best for the reason that they protect the grass underneath, so that when the sheep are grazing they get some grass with more or less succulence in it, along with what is dead. Subscriber.

Good roads in the future should be built on the zig-zag plan for the avoidance of hills and steep grades, the federal officer of good roads announced in declaring that the lives of horses and automobiles could be lengthened thereby and the cost of hauling reduced materially. The experts contend that the "longest way around often may be the most economical and shortest way home," and decry the national tendency to build straight roads whenever they must risk heavy grades.

Because crows do more good by picking up white grubs than harm by eating corn, Green county has voted to remove the bounty of 25 cents a head. During the year closing September 30th, $557.25 was paid out in bounty for crows.—[Wisconsin Farmer.

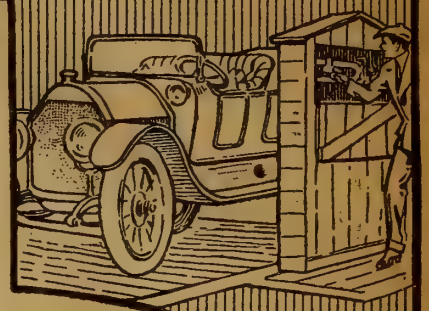
HEN LAYS 282 EGGS IN YEAR

(Continued from page 3.)

ty-seven individuals laid 200 eggs or better, mostly better. The Leghorns had the best breed average, 168.6, but reduced to terms of varieies the White Plymouth Rock leads with 172.3, the White Leghorns next with 170.6 and then White Wyandottes with 169.9.

The third contest is now on, under the direction of the Department of Agriculture, through the Storrs experiment station and the college jointly and without the newspaper connection which has existed. Ten birds to a pen instead of five prevails this time and three mongrel pens are entered in order to show how their laying compares with that of thoroughbreds. The college enters ten pens of its Leghorns for experiments with feeding formulas and methods, also. The entrants are even more widely distributed geographically and this promises to be the best contest of all.

Put the car on the scales before you buy it!



If you want to know how much weight electrical equipment has added to the 1914 car, before you buy it—

Weigh it!

You're the one who will pay the tire bills, the fuel bills, the repair bills—*Weigh it!*

See that all the car's belongings are under the seats, water in the radiator and gasoline in the tank and then—*Weigh it!*

You don't have to take anyone's word for its weight—*Weigh it!*

If you want to know why the new car is sluggish, feeble on the hills, sudden death to tires and thirsty for gasoline—*Weigh it!*

Then compare the weight with a 1910 or 1911 model of the same car.

Electrical equipment adds a dead weight of 150 to 250 pounds and in addition (by actual tests) consumes 8% to 12% of the engine power.

This calls for larger engine, heavier frames, axles, springs, tires—added weight all the way through.

Either you will find this or you'll find something worse—for if the manufacturer has not enlarged the engine and other parts to carry excess weight, the result is a weak, under-powered, overloaded car.

If you want a real automobile—

If you want a car that is full-powered, simple, easier on tires, less troublesome, less expensive in every way—see that it is Prest-O-Lited.

Even if the car was designed to carry electric equipment, the removal of such equipment and the substitution of Prest-O-Lite will make a large reduction in weight, stop the power loss, and increase the reliability, safety and economy.

If you want to know why—send for this free book.

It shows why electric lighting costs five times more than Prest-O-Lite—how you risk the safety of yourself and family by an unreliable lighting system.

It tells why thousands of motorists are keeping their old cars and refusing to buy the new ones with electric equipment.

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Trapping is not hard work if your outfit is complete. You need a few good traps, the best bait and your spare time morning and night. Our big new Supply Catalog and Book on Trapping is ready and you can have a copy FREE if you write today. The book tells you when and where to trap, kind of traps and bait to use, how best to remove and prepare skins, etc.; also contains trapping laws of every state. Price lists, shipping tags, etc., also free. Get busy at once—big money in it. Write for book on trapping today.

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FORTY GOOD SHROPSHIRE RAMS

ONE, two and three-year-old Shropshire rams. All sired by an imported ram and out of ewes sired by imported rams. The ewes also directly descended from imported ewes. Address
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Grinds more ear corn or small grain, with less power, than any other mill. Doesn't warm the feed. Lathe-centered Burrs may be changed in three minutes. Try it 20 days free. Write to-day for booklet.

Spartan Mfg. Co. 28 Main St. Pontiac, Ill.

SHROPSHIRES
of the right breeding.

80 imported and home-bred rams. 40 ram lambs and ewes to match, of the Rector family. C. D. NICHOLS LIVE STOCK CO., Cresco, Ia.

REGISTERED Shropshire lambs and ewes of the best breeding and quality. Williard Miller, R-3 Anita, Iowa.

FRESH FROZEN LAKE SUPERIOR HERRING, 100 pounds, $3.50; quick shipments. The Consolidated Fisheries, Dept. 18, Duluth, Minnesota

Where corn and cows pay best!

Mr. Tate, near Camden, Ark. says: "We make 63 bu. of corn an acre here. There is all the native hay we need and splendid pasture. Lespedeza is found everywhere. Bermuda will not dry out or freeze."

Within a radius of two miles of Mt. Pleasant, Texas, there are 200 ever-flowing clear water springs and the finest Bermuda range you ever laid eyes on—think of the advantages *there* for dairying.

On account of fine pasture, etc., pure spring water, well drained land and mild climate, milk and butter can be produced for 40 per cent less along the

Cotton Belt Route in Arkansas and Texas

than anywhere else. Yet, these dairy products bring higher prices in the local small town markets, there, than northern farmers get in such cities as St Louis and Chicago

When you can get fine corn land at $15 to $35 per acre; when you have a mild short winter and don't have to stall feed stock; when you produce milk and butter at the lowest cost and sell them at the highest price; you can make big money. In Arkansas and East Texas you would have good roads, good schools, close markets, phones, rural delivery, churches, etc.

Books by a farmer—free!

We got a practical farmer to travel all along the Cotton Belt Route and talk with the farmers themselves, get pictures of their farms and their personal statements. Because he was a farmer this man knew what you wanted to know about these sections and he tells you in these free books—showing scores of actual photograph pictures of the farms he visited. You must not miss seeing these books. Write today!

E. W. LaBeaume, General Passenger Agent,
808 Pierce Bldg., St. Louis, Mo.

Low Fare Excursions via Cotton Belt Route on 1st and 3rd Tuesdays each month. Ask me about them, write!

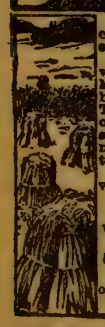
COTTON BELT ROUTE

YOUR OPPORTUNITY

is NOW in the Province of

SASKATCHEWAN Western Canada

160 ACRE FARMS IN WESTERN CANADA FREE



Do you desire to get a Free Homestead of 160 Acres of that well known Wheat Land? The area is becoming more limited but no less valuable.

New Districts have recently been opened up for settlement, and into these railroads are now being built. The day will soon come when there will be no Free Homesteading land left.

A Swift Current, Saskatchewan farmer writes:—"I came here on my homestead, March, 1906, with about $1000 worth of horses and machinery, and just $35 in cash. Today I have 900 acres of wheat, 300 acres of oats, and 50 acres of flax." Not bad for six years, but only an instance of what may be done in Western Canada, in Manitoba, Saskatchewan or Alberta.

Send at once for Literature, Maps, Railway Rates, etc., to

Frank H. Hewitt, Des Moines, Iowa
W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.
R. A. Garrett, 315 Jackson St., St. Paul, Minn.

or Address, Superintendent of Immigration, Ottawa, Ont., Canada

Hides Tanned SCIENTIFICALLY.

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No guesswork. Every hide tested in our laboratory by our chemist then tanned according to needs.

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Means Finest Fur Robes and Coats

Ship us your hides. We'll tan them by our special process and make you a soft, pliable, serviceable fur coat or robe. All work done in our own factory and absolutely guaranteed.

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Shows latest styles in furs, also special auto coat. Get our Free Book, "A Trip Through a Modern Tannery." Shows how it's done. Well illustrated. Address

GLOBE TANNING & MFG. CO.,
220 E. 1st., Des Moines, Iowa

ASPARAGUS IN A NEW ORCHARD.

A Missouri subscriber sends the following communication:

What would you think of putting asparagus between the trees of a new apple orchard (starting together) to produce while trees are growing—or permanently? The asparagus would probably do all right, as it grows wild in old orchards, but what of effect upon trees?

If the asparagus is planted with discretion it will not injure the apple trees, and by that we mean that it should not be so planted as to crowd the trees.

Suppose you set the apple trees twenty-five feet apart, each way. You can plant fifteen feet of the space one way, with asparagus, or twelve roots. That will leave five feet upon each side of the tree for culture. Then you may also plant two rows of asparagus, parallel with that already set, between the rows of apple trees. This will leave the orchard in good shape for cultivation one way. Or, if you wish to be very careful, and look a long way into the future, you may set only one row of the plants between the tree rows. For, while two rows would thrive for the first few years, the time will come later when the shade of the trees will injure the asparagus.

You need be under no apprehension of injury to the trees by this association. When any injury comes it will be the other way. However, it may well be expected if trees are crowded by the roots of the plants while they are small that their growth will be interfered with. But if planted as suggested above there can be no injury to the trees possible.

To make a success of the asparagus you will need to give it careful attention, in the way of good cultivation and manuring. And this will not injure the trees, for orchards usually suffer for just that kind of treatment. But in such manuring of the asparagus it will be best to avoid placing the manure close about the trees. The first use of the manure is for the vegetable and when the secondary effect of the fertilizer spreads out to the trees, its raw first influence will be dissipated, and no harm, but rather good, will result. For some reasons asparagus is an ideal crop for the orchard. It is better than raspberries or blackberries because more easily kept in its place. It is more profitable than potatoes, in a term of years, and is far more cheaply grown. And the same may be said of beans, cucumbers and all the other side crops usually grown in young orchards.

You may wish to think of this point: the difficulty of getting rid of asparagus when it is once established. Given three or four years to grow the roots are immense and it becomes almost impossible to plow them out, even with a strong two-horse team. For that reason, in common practice asparagus beds are rarely disturbed, but are left to grow for twenty-five or thirty years. Of course, the roots continue to spread and at the end of that time, if not kept dug out, they will embrace your trees pretty closely. But your trees will have attained such a size that the effect upon them will be negligible. Perhaps the best way to destroy an old asparagus patch is to smother it out. Shortly after the new growth starts up in the spring, put on two feet of straw or heavy manure, and when, after a week or so, shoots are seen to be still coming up, apply another coating. In this way, if the work is thoroughly done, asparagus may be killed out in two years.

We have had an unusually warm November and this has effected an enormous saving in feed. Cattle have been grazing throughout the entire corn belt and what has already been saved will tend to partially make up for the short corn crop. If it should continue throughout a portion of December, values of grain may be expected to materially drop.

The fact that packers are willing to pay a good price for any kind of cattle that are the least bit meaty has complicated the situation for the feeder. Every man who pays 7 or 8 cents a pound for feeders and on top of that must pay two freights is engaging in a speculative game and he must expect to abide by the consequences if a snug loss is pocketed at the end of the feeding period.

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More Subscribers Who Favor the Plan of Shredding Corn Fodder Express the Faith That Is in Them in the Following Letters.

C. E. RUSSELL, Warren county, Illinois:—About twenty years ago I bought the first fodder shredder owned in this county and operated it until it was worn out. I did certain work for my neighbors and charged them $10 per day.

This machine did not husk the corn off the fodder, but corn and fodder all went through together and it did a splendid job of shredding. The cost per acre for shredding and all help ran from $1.50 to $2 per acre, depending on the distance which the fodder had to be hauled and how well the fireman kept up the power.

After wearing this machine out I bought a third interest in a six-roll husker and cutter and kept my share until that machine was worn out. The last ten years I have hired my shredding done. Last year my shredding was done with a threshing machine which shells the corn and elevates it into a wagon just the same as it would wheat or oats, besides doing a good job of shredding and all this about twice as fast as any shredder I ever saw. The owner of this outfit charged $1 per acre for shredding. If we paid cash for all the help it would cost about $2 per acre to shred fodder, but as the farmers exchange work no money is paid out except to the machine man.

As the fodder has to be hauled in from the fields anyway, it does not cost any more to haul it to the shredder than it does to haul it in a load at a time, and not half as much if it gets snowed under in the field. Then, too, it puts the cornstalks in condition to make the best kind of manure and they are much easier to handle, enabling one to handle much more of it in a day. Just this one item will almost pay the cost of shredding.

We store our shredded fodder in the barn mow or shed. A few times we have filled our big cattle hay racks outside, but this wastes a good deal if the machine has a blower to elevate the shredded fodder.

I have fed a good deal of shredded fodder in the last twenty years to my work horses and in fact through several summers they have had shredded fodder for roughage and I never had horses do better or stand the work better than they did. They will not gorge themselves with it as they are apt to do if they are fed all the timothy or clover hay they will eat.

If a farmer has lots of fodder and a good place to store it, my advice would be to shred it by all means. Be careful not to do the job when it is damp or wet or the fodder will mold and spoil. It can be too dry also and when too dry a great many of the leaves will be lost. But if you can strike a happy medium, neither too wet nor too dry, then rush the shredding and you will never regret it.

SUBSCRIBER, Des Moines county, Iowa:—When I was a boy we used to husk the corn from the shock, then haul the fodder through snow or wind in January or February to the feed lot, there to see half of it trampled in the mud and wasted. Some people are still doing the same thing.

Such methods won't do in these days of progress. If I should be asked to name two of the best things for a farmer to own, I should say at once, a manure spreader and a silo. The spreader is doing more to "make two ears of corn grow where one grew before" than any implement on the farm today, and the silo is making the feed from one acre of corn go as far as three or four in days of yore. In fact, the silo has about solved the feed problem for a great many of our corn-belt farmers and dairymen.

But, alas, all our farmers don't own silos, and there remain thousands of acres of corn fodder standing in shock every year to be taken care of and fed. How shall all this fodder be handled to get the greatest amount of feed at the least cost to the farmer?

After several years' experience with shredded fodder I have come to think the shredder or thresher the ideal way to deal with the fodder problem. The work can be done at a time when farmers are not rushed with other work, a good time being right after corn husking. As a rule the work should not be done too early, as the fodder should be thoroughly cured before shredding. It is apt to heat and mold if put in the barn before it is well cured.

The man who does our shredding has a small machine with a capacity of 200 shocks twelve hills square per day. The shredders are equipped with blow stacker and the fodder is blown into the mow ready for use. If barn room is scarce, a crib can be made of woven wire and answers the purpose nicely. I think it a good idea to put on a few buckets of salt as the fodder is being put into the barn.

I like the shredder, 1st: Because the feed is in the barn. There is no digging of corn shocks in snow or mud.

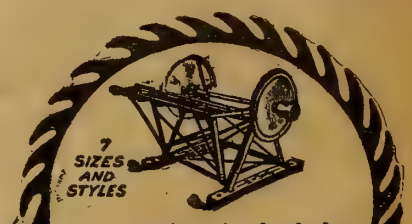
2d. It can be fed in the mangers, and cattle and horses like it.

3d. What is wasted or the refuse parts of the stalk makes fine bedding and goes into the manure; absorbing and thus conserving much of the liquids which would otherwise be lost.

The manure can be handled nicely with fork or shovel and the spreader has no trouble in putting it on the field.

The cost will depend somewhat on circumstances, as the help necessary depends on the distance to haul from the fields to the machine, etc. With wages at $1.50 per day for eight men, which is usually enough, and 10 cents per shock for shock of twelve hills square the cost will be about $16 per 100 shocks, not counting the boarding of help. In our neighborhood we farmers exchange work at such times which makes the money paid out less. At first thought some may think shredding an expensive way, but when you consider the extra amount of feed gained or saved and the number of tons of $15 hay saved, it does not seem so high after all.

It is hard work to be sure, and some trouble for the women folks, but what do we farmers get without work?



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Selecting Corn for Exhibition.

THE selection of an animal that will win in a livestock contest is considered an art. Experience shows that it takes the same kind of training to select prize-winning corn. Men who do not have any special advantage in the way of soil or seed are taking good premiums every year at corn shows simply because they select well. Good judges have been heard to remark, after looking over a sample, that no doubt it could have been much improved had the exhibitor understood the principles of selection better.

In showing corn, as in many other things, experience is the greatest teacher. The man who can take a sample of corn to an exhibit, and learn wherein it could be improved, often gets more out of the contest than the prize winners. He should study the methods and wishes of the judges, and go home and apply the information. It is true that judges will differ, but usually on minor points. It is well to get the essential points first and not pay too much attention to details till necessary. Of course, there is occasionally a judge who follows some hobby to extremes, and care must be taken to avoid being misled.

It will not be possible to describe in detail what kind of an ear should be selected. This article will deal with the general precautions that seemingly need mention. Primarily it can be said that the selection of corn for show is the same as selecting for seed purposes. Any judge who considers otherwise makes an error. However, a few things are necessary in show corn which are not considered in seed corn. The same conditions exist in the livestock ring. A well-groomed animal is necessary for show purposes, but not for breeding or fattening. Some few things in corn are similar. For instance, a bleached ear would look bad in a contest, but would not be injured for seed. It probably would not be given a high grade, even though a germination test showed it to be good. Crooked ears and those with crooked rows will usually receive the same treatment in very close competition.

A discussion will be given here of a few points, not in order of their importance, but as the judge usually takes them up. First, uniformity is, no doubt, the most noticeable point in a sample of corn. A sample, of any number of ears, should be uniform in every respect. This is not without its practical side either. Samples of different sized ears with rough and smooth indentation, different lengths of kernels, and various shaped ears, all tend towards making corn that will vary in time of maturing. Not enough grain will be produced on some of the ears because they will be either too shallow or the ears too small. Above all, the sample should be uniform because this is the only guide as to the breeding of the corn. A sample of uniform good ears will indicate that some unusual care has been given it and that intelligence is back of it. A sample without uniformity indicates carelessness or lack of knowledge and anyone would hesitate to award it a high place.

Uniformity makes attractiveness, not only to the judge, but to the people as well. It is best to select ears as large and with as deep kernels as will safely mature in the locality where grown, and to have them with strong middles, well-filled tip and butts, if possible, then see that the color, indentation, and width of kernels, are uniform as well as the above mentioned points.

Maturity and germination are also necessary in show corn as well as in seed corn. Immaturity is best indicated by sappiness, chaffiness, and shrunken tips of kernels. Starchiness is another good indication, providing the ear is not naturally starchy. If the white starch appears on the backs of the kernels down near the tips, or if this place is shrunken, immaturity can always be blamed. Poor germination should always be avoided by gathering the ears for exhibit quite early. Too early gathering will cause a shrunken appearance and detracts from its value for show purposes. Judges would not discriminate severely except for the fact that it is impossible to distinguish this appearance from that of immature corn after drying. If the germination is uncertain, a test can be made of a few kernels from each ear without injuring the sample.

Many other points such as freedom from mixture, shape of kernel, size of grain, and other points have been mentioned in these columns before and it is not deemed necessary to repeat them here.

Successful competition requires much careful labor. The man who feels that he can give his corn ordinary care and go out a few hours before the contest to select the samples, will almost invariably be beaten by the man who selects carefully. Many long hours are spent on the prize-winning samples of the larger shows.

After gathering the corn from the field it should be hung where it will get absolutely dry before entering the contest, especially if late in the season. It should be fire-dried, if possible, as exhibit rooms are always heated in some way and if not thoroughly dry before entering, the judge will likely find some loose ears. The ears should not be hung in too strong light as they will fade. Ears should be supported some way in hanging. Tying strings from the middle or laying on hangers will often cause crooked or marked ears.

When ready for the final selection all the ears should be laid down in rows on the floor or on boards. A kernel or two should then be taken from each ear. This will not detract from the sample, especially as the grains can be inserted again after examining. Judges do not pretend to make their decisions without removing kernels. Neither can the exhibitor intelligently select his sample without removing kernels. These kernels should then be considered as carefully as the ears for their size, shape, size of germ, quality, and uniformity. Eliminations can then be made until the best sample is secured.

The butts of the ears should be trimmed out until none of the shank is left. Exposed tips should also be broken off. If any ears are dirty or dusty they should be cleaned before being exhibited. If it is necessary to have a slight variation in the lengths of the ears, a better appearance will be made if the longer ears are placed in the middle or near the end, and grading them down to the smallest. These points mentioned are not to deceive the judge, but only to add to the attractiveness of the sample. It is the same principle on which a stockman decorates his animals or stands them in a certain position while they are being judged.

Managers of exhibits can add much to the attractiveness of their contest by providing well-lighted large rooms. The corn should then be laid out in neat rows on tables where they can be studied. Crowded dark rooms are too common as exhibit rooms.—[Paul C. Taff in Iowa Agriculturist.

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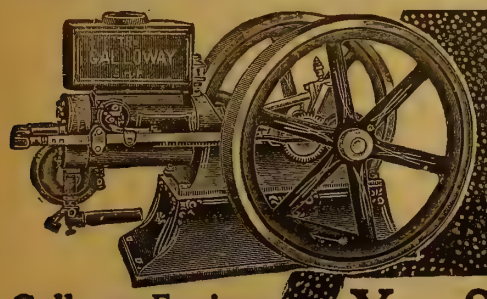

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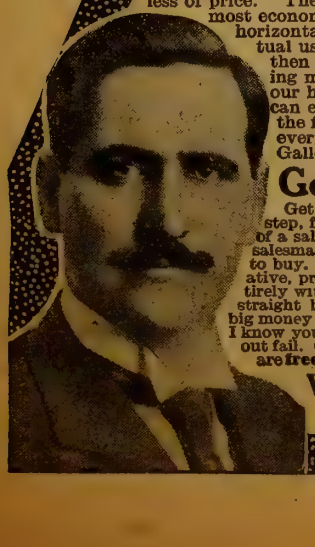

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WITH THE EDITOR.

Oh, fire of December! Glimmer and glow!
Burn like the heart of a boy I know,
Burn! Burn!
Burn till the pippins burst and then
Burn till the pop corn fills the pan!
Burn, oh, fire, till the midnight chime
Shall beckon to bed
Each golden head,
To dream the dreams of the Christmas time.

—James Newton Mathews.

As a holiday, Thanksgiving belongs to the farm, but Christmas belongs to the whole world. Would that every person in this big, good old world might be brought in touch with the spirit of the day! To the normal grown-up, the Yuletide is synonymous with home and mother. To the children, it suggests good Old Saint Nick, the real one, who still wears whiskers—rosy, sparkling, white and jolly, perched on the chimney top, preparatory to taking the leap into the black abyss. Fortunate, indeed, for the world that such a limited number of people are too righteous (?) to deceive the babies about Santa Claus. A starved childhood is the worst of all reverses. God pity the child that must grow prematurely old. God pity the man or woman who grew up in an environment where every day was the same; where the jolly "Merry Christmas" was scorned as nonsense, or possibly sacrilege. Make the day memorable in some way, for both old and young—especially the young—even though it be an effort. If we do not give them something to "look back to," after they have gone out to meet the stern realities of life, they are cheated, just as surely as if their material rights were withheld.

While the children are small, a little remembrance means much, and after they grow up, so much means so little, in this day and age of the world. There is only one sane way to view this matter, and that is, to begin when they are wee tots, explaining the meaning of the day, that the gift, with nothing of the giver, is bare; that the gift should follow the thought, and that the thought should mean more than the symbol. The happiest, jolliest lot of youngsters imaginable, look forward to every holiday and every birthday, as well, not because they ever received anything so very "nice," but because every milestone was remembered. The mother could not afford even the simplest gifts, so frequently did the birthdays appear. Not always possible was the birthday cake, so limited was her time; but there never failed to be a small individual pie at the proper time, and the little fellow understood. Understood that mother was glad he was there, that he was a gift and not a bother, and the token, small as it was, meant more than the most expensive present possibly could.

View the matter as we will, it is the little things that mean weal or woe; the little things that bind the children to the home or drive them to seek companionship elsewhere. Do not make the mistake of thinking that the children do not appreciate your effort; a boy's indifference is all on the outside, and rarely do we see any outward demonstration. All too often children are misunderstood. If we, as parents, do our part in caring for the little things, the big things will care for themselves. Just so surely as we deserve the love of our children, just so surely, if our boy were to live to be a hundred years old, there will be times when he will wish that he could slip into his own bed at the old home, and mother were there to place an extra comfort!

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

He has achieved success who has lived well, laughed often, and loved much; who has gained the respect of intelligent men, and the love of little children; who has filled his niche and accomplished his task; who has left the world better than he found it, whether by an improved poppy, a perfect poem or a rescued soul; who has never lacked appreciation of earth's beauty, or failed to express it; who has always looked for the best in others and given the best he had; whose life is an inspiration; whose memory a benediction—Bessie A. Stanley.

One touch of nature makes
The whole world kin,
Trials are but "touches,"
Meet them with a vim.
—R. H. Blossom.

"If you and I, just you and I,
Should laugh instead of worry;
If we should grow, just you and I,
Kinder and sweeter hearted,
Perhaps in some near by and by,
A good time might get started;
Then what a happy world 'twould be
For you and me—for you and me!"

Let us love so well that our work shall be sweeter for our love, and still our love be sweeter for our work.—Elizabeth Barrett Browning.

HOMESPUN WRINKLES.

Try adding freshly grated horseradish to your canned pickles; it will help them to be crisp and well flavored.

Should the knob come off any kettle, a screw may be slipped through the hole with the head inside the lid, screw a cork into the protruding end; this knob will not get hot and can be replaced.

To soften brown sugar that has become lumpy stand it over a kettle of boiling water.

A quantity of quicklime put into a damp cupboard will absorb the dampness.

Butter will keep fresh several months if packed in jars and the jars are packed in charcoal. It should be kept in the coolest place possible.

The vacuum principle is the latest and best for the laundry. All former makes of machines were arrangements of cogs that rubbed the clothes much the same as a board. The vacuum method is a tin affair that can be put into any boiler and works like a coffee percolator.

THINGS GOOD TO EAT.

Waffles.—A very appetizing breakfast dish. Two cups sifted flour, two teaspoons baking powder, one-half teaspoon salt, two tablespoons butter, three eggs, one and one-half cupfuls milk. Mix the dry ingredients and sift several times. Put in the butter as for biscuit. Separate the eggs, beat yolks and mix with the milk; add this to the dry ingredients, beat well, then fold in the stiffly beaten whites. The batter should be of pouring consistency; if too thick, add milk, then cook in hot buttered waffle irons.

Cream of Lima Bean Soup.—Cook one pint lima beans in slightly salted water, until perfectly tender. Press through a colander and add one quart milk. Put through a food chopper two onions. Rub together one tablespoon of butter with two tablespoons flour. Add to the mixture, heat and stir constantly until smooth. Add salt and pepper and serve hot.

Turkey Croquettes.—One and one-half cups chopped, cold turkey; one-fourth teaspoon celery salt, one-half teaspoon salt, pepper, a few drops onion juice, and one cup thick, white sauce. Mix these ingredients in the order mentioned, cool and shape as desired; roll in beaten egg; cover with fine crumbs, and cook in deep fat.

Thick White Sauce.—Two and one-half tablespoons butter, one-half cup flour, one cup milk, one-fourth teaspoon salt. Melt the butter in the upper part of a double boiler; stir the flour into it, and when blended add the milk and stir constantly until dissolved. When it begins to thicken, place the dish over water and cook slowly until thick and smooth. Cool and add to the croquette mixture.

AMONG OURSELVES.

For those of us who wish to remember our many friends, but have only a limited amount of money to spend, Mary Clark solves the problem by giving directions for making dainty articles for all, from the tot to the larger members; this is a very seasonable suggestion, and will, I hope, be of benefit to many of our members:

It is time that those of us who make most of our Christmas presents should be getting busy, and perhaps a few suggestions will be appreciated by those who "don't know what to make." For the men folks, buy some of the black fleeced socks, that sell for 15 cents a pair, and with wash silk embroider designs of polka dots or other figures. Crochet or knit mufflers of soft yarn or silk. Make fancy sleeve holders of elastic, a couple of brass rings, crocheted over, a small amount of bright ribbon. For the wee tots, make some rattles by crocheting or knitting a cover for a small stick, about eight inches long, to which fasten several small bells, that can be

bought at a variety store at five cents a dozen. For "next to the baby," make a fancy ball by covering a ball made from yarn, with a crocheted cover of bright yarn. Make picture books of strong cloth, sewed into a book form on which paste any pictures, cards, etc., that would interest the recipient. I always save all the appropriate pictures through the year, that I find in children's magazines, and other publications. I suppose you will all smile, but I have found that boys "betwixt and between," would rather have a liberal supply of homemade candy, pop corn balls, and similar things than anything else; they consider life too short to be "dolled up," so would not thank you for any articles of adornment you might give them. Girls, of course, are pleased with collars, handkerchiefs or hair ornaments. Nice bandeaus can be made by sewing fancy beads on black velvet ribbon, in fancy, or conventional design. For the woman who likes nice things, but is too busy to make them, give some nice collars or embroidered aprons. To the woman who cares for nothing fancy, give the big serviceable gingham apron. If you paint, even "just a little," you can make nice photo frames by covering a paste-board frame with drawing paper, and painting designs of violets or any preferred flower. Choose the recipient's favorite if you know it. There can be made fancy bows, jabots and ties by painting neat little sprays on the ends of short lengths of ribbons or silks. Never destroy, no matter how small, any pieces of lace, silk, velvet, linen or embroidery. If you are any good at all at contriving, you will find a use for them at Christmas time.

This list of directions is very practical, and there is only one part of it that does not appeal. That is the present for the boy who has not yet caught up with the size of his feet and hands. That he does not wish to be "dolled" is certain: that he does not like nice things, is a g-r-e-a-t big mistake. He likes pretty articles just as much as does that girl who gets the monopoly of the dainty belongings. Bless his heart! Nobody is ever the wiser, unless they understand boys, but many a boy carries an indifferent, almost rough exterior, while the heart aches with the injustice of it all. Do try, when choosing the Christmas offerings, to "break even," share and share alike.

This sister has, to a large extent, made much of little, and generously passes it on. Would that many "Mrs. Homesteaders" were thoughtful enough to give from their fund of experience:

When I, as a bride, came to our modest home, in the far West, I had many things to learn. After I had done my washing by hand a few times, using kitchen chairs for a wash bench, I purchased a galvanized washer that serves as both a washer and boiler. My husband made me a wash bench that was just the right height, and long enough to hold two tubs, with an arm between for the wringer. I found that a hot coal fire made the house very uncomfortable in the summer time, so a good oil stove was purchased. It is still giving good satisfaction. Next, we attended to the water supply; it was impossible to bring water to the house by means of a tank and pipes, so a large cistern was built with a filter, and a good pump installed. We now had an ample supply of water for all purposes. It's a real saving to put down hard wood floors, keep them well oiled, and use rugs. The latter is the best saver of all, the saver of the housekeeper. A good, dustless mop can be made from stocking legs cut into strips, dipped into kerosene and well aired. A supply of granite or aluminum utensils is essential to modern housekeeping. I do not wipe my dishes, excepting the glasses and silverware. The other dishes are scalded with boiling water and allowed to drain; they dry beautifully. When packing away summer or winter clothing, and other seldom-used articles, a list is kept in a notebook of the contents of each box or trunk.

As a hard-working housekeeper, the editor has learned many things from this practical talk. It is the kind of contribution that the whole working force of this paper approve, from the manager and editor-in-chief, clear down the whole list. Why not, this Christmas, instead of giving useless ornaments, questionable as to either beauty or utility, remember our friends with some utensil? Many inexpensive labor-saving devices are beautiful as well as useful every day in the year. At a shower given to a soon-to-be bride the invited guests brought everything that is required in a well-appointed kitchen, from a double boiler to a mouse trap; an improvement, surely, from the "china showers," where a dozen or more salad dishes would be left to collect dust from year to year.

"Home, Sweet Home" the magic words bring out the very best in any one, be he saint or sinner; that every home is not what it should be is certain. But do our readers think that this picture is true of very many? Ponder this question well; look about and give us your unbiased opinion. This is Mrs. Palmer's opinion:

The beautiful sentiment expressed in "Home Sweet Home," is being rapidly lost sight of in these days of rapid transit. We build magnificent homes, and are very proud of their elegant appearance, but in far too many instances they are merely stopping places instead of being homes sacred to us, because we have worked and planned for years, that we might in declining years "take things easy." Traveling is so easy that the excitement of frequent change is destroying the love for the sacred shelter of home. Children chafe and fret under the restraints of home, and we weakly yield to their importunities and allow them to seek excitement in public places. If our financial condition forbids any change, we are many times discontented. Travel and change of scene are desirable, as well as beneficial, as a means of recreation. We can return to our home and work, refreshed and with a feeling of gratitude for home and home friends, satisfied that, "Be it ever so humble there's no place like home."

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 56, Box 21, Philo, Illinois.

My dear Young Folks: It is the desire of this paper to make your department of especial interest. To do this it is necesary that you do your part. The editor of this page has spent her whole life in close contact with girls and boys. Many of her happiest years were spent in a country schoolroom where, as teacher, she and her pupils were good chums. There was no stiffness and straightlaced formality. Contrary to the popular belief that this kind of relation will cause pupils to lose respect for their teacher, the pupils never abused the privilege. In later years it has always seemed that girls and boys, away from home, needed mothering. When her own babies grew old enough to talk, they vied with each other as to who was "mamma's best fellow." And now to this numerous family is to be added all the boy and girl readers of this paper. Come to us with your troubles as well as your joys. If something perplexes you, be sure you will get a sympathetic hearing. If every letter is not printed it is because there is not room for all. From out the large file the ones that are of more interest to the greatest number of readers are published. Try to remember this, if you do not always see your letter in print. Especially are letters desired that deal with farm life. Things are happening every day, right on your own farm, that would help some one, ways of doing things, both indoors and on the farm. Some of our boys are selecting seed corn this very minute; many of our girls are preparing the school lunches this very minute as well. The editor has an object lesson in sight about this as she is typing this. Who can tell about it? This is only a suggestion; a variety of subjects is desired, rather than so many letters on one subject. Prizes will continue to be offered, but when you write with the object in view of helping some one, rather than material gain, then will you do your best.

KINDNESS IS FIRST, AND BEST.

(First Prize.)

I am a farm girl, and wish to tell about an instance of kindness that we children once saw when we were going to school.

We met a man, driving one horse, hitched to a load of coal, trying to make the poor creature pull it up hill. The horse stood still and the man began to beat him cruelly. One of the boys who was with us said: "Perhaps, sir, the load is too heavy for the horse." "No danger of that," replied the man; "he has pulled many a load heavier than this, up larger hills."

Just then a man who lived near came up and said: "If he can pull larger loads, something must be the matter, or he would pull this one." "Oh, he's only headstrong, and thinks he can do as he wishes, but I'll show him that I am master." As he said this, he took the whip and was going to get down from the wagon, but our friend said: "Wait a moment; perhaps he has not been treated as he should; let us see if kind words won't do more good than blows." "You may try if you wish," returned the driver, "but it won't do any good."

The man patted the horse, spoke kindly to him, then pulled gently on the bridle, and the horse pulled to the

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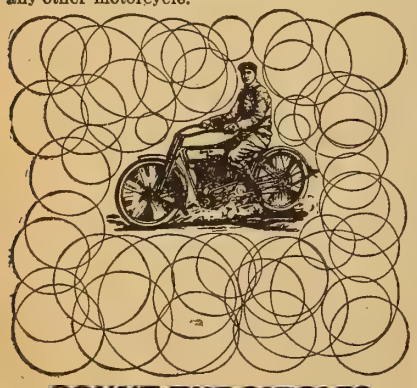

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top of the hill without stopping. Then the driver stopped his horse, and said: "Young man, I must thank you for having shown me that kind words are better than blows."

As we walked on, one of the boys said that if all boys would use this rule, we would be all right. The other boys thought so too. I think if men would be more thoughtful, boys would be kinder to animals.

—"Blue Bird."

[Some boys know, at the expense of time and temper, that some horses will not pull, no matter what they do, wise or otherwise. To those who have had trying times with a confirmed balker this good little story may not appeal. Now boys, I know just how you feel about it, and can sympathize with you. However, do try to remember that every horse that refuses to pull has at some time been unfairly treated, either through carelessness, cruelty or by accident. In view of this fact, always temper justice with mercy, with the latter largely in evidence. If you are so unfortunate as to have a horse that has "quit the job," try pulling him to one side before starting. An animal, even a horse, can be conscious of but one thing at a time, and it will divert his attention—sometimes. Whatever else you do, don't bring yourself to the level of the lower animals, by cruelty.]

Buster's Reward.

(Second Prize.)

The Melvin family lived in a large tenement house on Main street. Mrs. Melvin, being a widow, did washings to support her family of six children. The children were so nearly of a size that she called them her "stair-steps."

One day while at dinner they were startled by the yelping and howling of some animal in distress. "Step number five" known as John Jones—named for his father—ran out into the street and soon returned, holding a small dog tightly in his arms. "Oh, mamma!" he exclaimed, as he removed a tin can from the poor dog's bruised and bleeding tail, "may we keep him?"

At first Mrs. Melvin objected; it would be one more mouth to feed, even though it was only a dog, but later she decided he could stay, because she did not like to let the opportunity pass to impress on the childish minds the importance of kindness to animals. The family soon became very much attached to him and he became one of them.

One night the family was awakened by Buster's howls and whining to find the house filled with smoke. Mrs. Melvin rushed to the kitchen, and found some of the children's clothes that had been placed too near the stove were burning. Buster had awakened them just in time to save the big apartment house from being burned, and very likely the lives of the inmates as well. The dog rewarded the mother for her kindness, as well as the kindness of her children.

God wishes us to love and care for the dumb animals that he puts on earth for our use. They are His creatures, and in caring for them we serve Him.

—"An-Older-One."

Our Pet Squirrel.

(Third Prize.)

One day our neighbor was going for his cows, when he heard a noise, and looking around he saw two baby squirrels on the ground. They were looking for something to eat. A boy had shot the mother, and the poor little things were left to starve.

The man picked one of the little fellows up, but the other escaped. The next day, he brought it over to our house, and we raised it. It is now two years old and very tame. It has a large cage, with a sleeping room and a merry-go-round.

I love to watch the squirrel carry corn husks into her sleeping room. She takes three husks, rolls them into a ball, and then stuffs them into her mouth, jumps into her sleeping room, and then jumps out for more. I think it was very kind of the man to care for the baby squirrel.

—"Oak Leaf," age 12.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

5681 Boys' Pajamas.—There are two styles in this pattern, that of high neck standing band or with low neck having stole band. The trousers are in two pieces and are very easily made. The coat has two pieces in the body, front and back, and with the addition of sleeves, either band and the pocket the garment is complete.

The pattern 5681 is cut in sizes 4 to 16 years. Medium size requires 3½ yards of 36-inch material, ¾ yard of 27-inch material contrasting goods. Price of pattern ten cents.

5217 Ladies' House Dress.—Linen, gingham or percale can be used to make this house dress. This dress closes at the front and can be made with either the long or three-quarter length sleeves. The skirt is cut in seven gores.

The pattern 5217 is cut in sizes 32 to 44 inches bust measure. Medium size requires 6 yards of 36-inch material. Price of pattern ten cents.

6400 Doll's Dress.—With the holidays approaching the dress of the doll becomes important. The one herewith offered is a one-piece garment, sleeves, body and skirt all in one and with the closing in the back. A wide belt completes the dress. It may be made of remnants of material or of challis.

The pattern 6400 is cut in sizes for dolls measuring from 14 to 26 inches in length. For a 24-inch doll it will require 1 yard of 27-inch material, 1⅝ yards of edging and ¾ yard of ribbon. Price of pattern ten cents.

6332 Misses' Dress.—This dress can be used for the small woman as well as for the miss. It closes at the front and can be made with either the long or short sleeves. The two-gored skirt can be made with either the Empire or regulation waistline.

Serge, cheviot or broadcloth can be used to make this dress with the collar and cuffs of contrasting material. Price of pattern ten cents.

5430 One-Piece Blouse.—The body and sleeve in one idea is the main character of this blouse. The collar is removable. An inexperienced sewer could make the blouse without the least difficulty and be well satisfied with the finished garment.

The pattern 5430 is cut in sizes 4, 6, 8 and 10 years. Medium size requires 1⅜ yards of 36-inch material. Price of pattern ten cents.

6356 Girls' Dress.—This little dress shows the stylish low-belted effect which is the newest thing in children's fashions. The short skirt is kilted and the blouse is fulled slightly into a stitched belt. The long or short sleeve may be used and the shield may be worn or omitted. A patent leather belt may replace the one of material if preferred.

The pattern 6356 is cut in sizes 4, 6, 8, 10 and 12 years. Medium size requires 2⅝ yards of 36-inch material. Price of pattern ten cents.

HOTEL EARLINGTON

27th Street, West of Broadway
NEW YORK

EUROPEAN PLAN

A Step from Broadway
Absolutely Fireproof
Quiet as a Village at Night
Your Comfort Our Aim Always

Parlor, Bedroom and Bath front of house, one person, $2.50, two people, $3.50. Why pay more when our service is equaled only by the best?

SINGLE ROOMS, $1.00

E. W. WARFIELD, Manager

DON'T SEND A PENNY

AIR-O-LITE Reading Lamp FREE

On 30 Days' Trial in Your Home

The safest, most economical and best gasoline table lamp on the market. Safer than kerosene. A child can operate it. 300 candle power—**costs one cent per night.** Guaranteed for 5 years. A necessity for every home, store and church. Absolutely safe. No smell—no smoke—won't explode. Send immediately for **free trial offer.**

Agents Wanted—exclusive territory. Big profits. Write for terms and territory immediately.

Guy Hunter, 351 12th St., Des Moines, Iowa

Buy the Barnett Sanitary VACUUM CLEANER

Fully guaranteed. Every woman wants one. Best proposition ever offered. Write today for prices and circulars.

AGENTS WANTED

Jos. H. Barnett & Co.,
Manufacturers
RIVERSIDE, IOWA.

A GOOD SCHOOL

LOWEST rates. Large attendance. Thorough work. Practical Courses. Accredited Courses: Preparatory, Commercial Stenotypy, Shorthand, Normal, High School, Scientific Music, Penmanship, Steam & Gas Engineering. Regular tuition $1.00 per week, Board $1.95. Free Tuition to one student from each postoffice. Write for catalog. Address: **University of Southern Minnesota. Box 280. Austin, Minn.**

THIS LONG RANGE TELESCOPE FREE

This telescope when closed, as shown in the picture, is 12 inches long and has a circumference of more than 5 inches. When all five sections are pulled out it is 42 inches long. The lenses are carefully ground and adjusted by an expert at one of the largest factories in Europe. It is built of good materials and is brass bound throughout. A solar eye piece is sent with each telescope to be used in studying the sun and moon and other solar bodies. It is useful also as a magnifying glass.

See Objects Miles Away

With this telescope you can see distant objects which were invisible to the naked eye. Farmer's wife said she could see her husband plowing in a field six miles away. Dairyman found it a great help in watching windmill and cattle in distant pasture during hot weather. It saves long trips and useless worry by enabling you to see distant objects plainly.

Free Offer

We will send one of these 42-inch telescopes, free and postpaid, to all who send $1.50 to pay for a three year, new or renewal, subscription to THE IOWA HOMESTEAD; 156 big, helpful issues for $1.50—less than 1 cent a copy—and this big telescope as a premium.

We guarantee this telescope to please you in every way. We will refund your money at any time if it is not perfectly satisfactory. Address all letters to

THE IOWA HOMESTEAD,
DES MOINES, IOWA.

Solar Eye Piece Sent With Each Telescope. Can be Used in Studying the Sun and Moon.

PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 10. Joshua 5:10-6, Dec. 7, 1913

THE FALL OF JERICHO.

Jericho was the Gibraltar of Canaan. Its towering bastions and gates of iron, with bars of brass, bade defiance to the invader. Even if its gauntlet could be run, no commander versed in tactics would leave such a citadel in his rear. Joshua would not intrust so important a matter to his most reliable lieutenant. He went in person to reconnoiter and plan the attack. While his eye was searching for some vantage ground, he was suddenly aware of a stranger's presence. Before him was a towering form of majestic mien, a naked sword gleaming in his hand. Every inch a soldier, Joshua clapped his hand upon his sword-hilt, advanced, and called for the countersign. In an instant he apprehended the truth—he had met an officer who outranked him. In a moment, with bared feet and prostrate form, he worshiped the commander-in-chief of all Jehovah's hosts, celestial and terrestrial. A plan of assault, novel and, humanly speaking, extremely foolish, was revealed to Joshua. The scheme was mortifying to a military genius. In this crucial test, Joshua's faith shines resplendent. He lays his military science at the feet of Jehovah's captain. Having made the Lord's plan his plan, he returns to put it into execution. Next day, under Jericho's walls, the strangest maneuver known to history was made. Israel's palladium, glittering in the sun, carried by priestly hands, as upon other occasions of special sanctity, was in the van. Seven priests, with ram's-horn-shaped silver trumpets, blew a defiant crescendo. Six hundred thousand troops marched, not upon, but around the citadel. From the walls, as from the gallery of a theater, the whole population of the beleaguered city viewed this strange spectacle daily for a week. On the seventh day, on the completion of the seventh circuit, the seven priests blew an extra loud and prolonged blast upon the seven horns; and at this signal, from six hundred thousand brawny throats, there went up a shout as if victory had already been achieved. That instant the faith of Israel had its reward. Those walls melted as the hearts of the defenders had already. Thus God put the key to Canaan in the hands of faithful Joshua that day. In the midst of universal ruin a fragment of the wall stood intact. On its summit, like an eyrie, was a hut, from whose little window a crimson-dyed cord swung back and forth. It was the house of Rahab. Then that city, the opulent commercial outpost of Canaan, the cup of her iniquity being full, fell a prey to the sword of justice, as wielded by Israel, Jehovah's executioner. Joshua's purpose was that this fortress-city should stand perpetually in ruins as a significant memorial of the retributive justice of God and the victory-achieving power of faith.

The Borden company has announced an increase of 13 cents per hundred for their milk, or $1.88, the highest price ever paid for milk in the city of Sterling, Illinois. The price paid for October milk last year was $1.55, making an increase of 33 cents per hundred over last year's prices. For the past seven months a premium has been paid. In April $1.71 was paid, an increase of 6 cents over the contract price. Next month the price was $1.46. In June $1.36 was paid or 16 cents above the contract price. The July price was $1.56 or 6 per cent raise, while the August price was $1.71 or 6 cents above contract. In September $1.76 was paid or 11 cents premium, and in October the price was $1.88 or 13 cents more than contract price. The average price for the seven months was $1.63.

The number of rabbits sent to the London market from Australia has become so great as to produce an oversupply and shipments have been discontinued.

Ask your neighbor to subscribe for The Homestead.

All Good Grocers Sell, Recommend and Guarantee

Lewis' Lye

The Standard for Half a Century for Keeping Hogs in Good Condition.

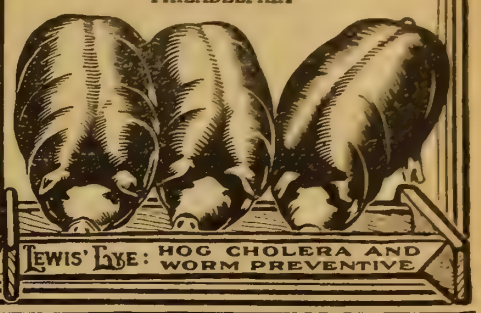
Insist upon the Genuine Lewis Lye—the *only* lye made by manufacturing chemists.

Purity and Full Strength Guaranteed

Best for all general purposes for which lye is used—on the Farm and in the Home.

Booklet describing its many uses mailed FREE on request.

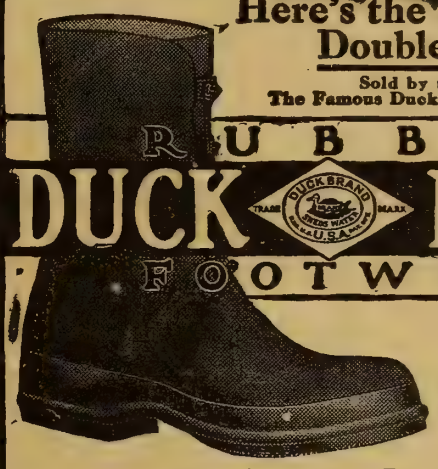
PENNSYLVANIA SALT MFG. CO.
Manufacturing Chemists
PHILADELPHIA



Here's the Arctic With the Double Wear Sole

Sold by the Distributors of The Famous Duck Brand Waterproof Clothing

RUBBER DUCK BRAND FOOTWEAR



That's what the thousands say who are using these famous and popular arctics. "Duck Brand" stamped on an arctic is your assurance of day in and day out *wear* satisfaction.

Insist on the famous "Duck Brand" Arctics

Made to meet the demand of the most exacting requirements. Reinforced against all strain—made with the *double wear sole.*

The dealer who handles the "Duck Brand" line of Rubber footwear is the man who handles the best of everything.

THE DUCK BRAND CO., Chicago, Ill.

SUMMIT KNIT-NEK VEST

Winter's outdoor work is a pleasure in one of these warm, comfortable and light-weight garments.

See how comfortably the patented Knit-Nek fits around the throat—not a bit of cold or wind can get in.

The leather-lined body and leather sleeves protect your arms and body.

Can you imagine anything more comfortable?

Your dealer has your size, or write to us for our interesting style book—it will help you make a selection.

Guiterman Bros.
347 Sibley Street :: ST. PAUL, MINN.

BE AN AUTO EXPERT

We teach you how to run and repair automobiles in six weeks and fit you for a good paying job or we don't charge one cent. Practical instruction, plenty of road work, etc. Only school teaching pattern making, moulding, casting, etc.

LINCOLN AUTO SCHOOL,
2360 "O" St., Lincoln, Nebr.

Free Illustrated catalog shows how you can hold a job paying $20 a week up. Write TODAY.

Live Stock and Commercial Field Notes

Collected by Representatives of The Homestead

ON December 17th at Carroll, Iowa, J. T. Judge will make a public sale of forty-eight head of high-class Shorthorn cattle, nearly evorything in the sale being strictly Scotch cattle. It is an offering that we take pleasure in recommending to our readers as the cattle and the breeding are of the very best. He is offering twelve very choice and very classy Scotch bulls, everyone of which will make a splendid herd bull when matured. He is also listing thirty-six head of cows and heifers and twelve of these will have calves at foot. The bull that stands at the head of the herd is Sultan Standard, a Cruickshank Orange Blossom, and he was regarded as the best son of Imp. Whitehall Sultan, sold in the Frank Harding sale in 1911. This bull is the sire of most of the young bulls and heifers to be sold in the sale, and most of the cows are in calf to him. That Mr. Judge made no mistake in buying this bull is best evidenced by the high-class lot of young bulls and heifers that he will offer at this time. A picture of a group of Sultan Standard bulls will be seen this week in the copy of his advertisement which appears on page 31. Just a word this week about the splendid bulls he will offer in this sale. Diamond Sultan is a large roan, a January yearling sired by that noted Kilgore bull, Scotch Sultan, and he is out of that equally noted cow, Golden Nell by Golden Favorite. This bull was purcnased at a long price from J. A. Kilgore to breed on his Sultan Standard heifers, and now that his herd will be greatly reduced after the sale he has concluded he will sell him in the sale. He is the making of a very large bull and a good one, and some man who wants a herd bull will make no mistake in buying him. His great-grandsire is the noted Bapton Diamond and then comes the equally noted Bapton Ensign. He is a thick-fleshed fellow with a nice head and a drooping horn, and he will be liked by those who are in search of a herd bull. An unusually high-class yearling white bull in this sale is Sultan's March, and he is a son of Sultan Standard and his dam is the splendid cow, Gold Hunt Maid. Here is one of the very choicest young bulls that will be sold in any sale this fall. He is low set and wide out, with a splendid back and loin, a nice head and horn, thick in the quarters and low in the twist. He is in reality an outstanding young bull that is destined to make a great herd bull. Another great yearling Sultan Standard bull that will be sold in this sale will be King Major. He is also sired by Sultan Standard and he is out of Veronico 6th by the well-known show and breeding bull, Clear the Way. This is a red bull, a well-balanced fellow and really one of the very choicest young bulls in the offering. He is selling a younger white bull by Sultan Standard and out of Sunlight Lass that is some calf and we look upon this fellow to make a most excellent bull if he falls into good hands. There are a couple of Cruickshank Victoria bulls in the offering, both sired by Sultan Standard that look awfully good to us and they have every right to develop into excellent herd bulls. Just a word this week about the cows and heifers that he is selling. These are an unusually attractive lot of females bred along the most approved lines, and individually of a very high order. Twelve or fourteen young heifers are listed, most of which are sired by Sultan Standard. There will also be twelve calves that will be sold at foot with their dams. He is selling some splendid cows in this sale that are daughters of his former well-known show and breeding bull, Clear the Way, and a number of other cows that are sired by some of the most noted sires of the present time. We will tell Homestead readers more about his female offering in next week's issue. In the meantime write J. T. Judge for a copy of his catalog and kindly mention The Homestead. It will be sent only on application, so be sure to write for it right away.

ONE of the good sires in the Wm. Moderow herd, which by the way is one of the country's very best aggregations of Durocs, is the great boar, Moderow's Wonder. This boar is a sow sire of unusual prominence and his boars are good breeders, in fact we know of few places that we would rather buy a boar than to get a son of Moderow's Wonder. The value of a really great boar is his ability to sire good sows, in fact the most famous boars of the breed today are exceptional good sow sires. If looking for a boar to sire you a crop of pigs another season that will develop sows of the highest order, get a son of Moderow's Wonder and your want will be filled. The price is an attraction, write for it. Moderow's Wonder is sired by Uneeda Crimson Wonder, one of the very best of the breed, and his dam is Perfection Rose by the great Crimson Jack. He is a great boar as an individual. If interested write to Wm. Moderow, Beemer, Neb., for prices on the stock for sale. See page 37.

PROBABLY as good an opportunity to secure extra choice breeding stock for little money is being offered by F. S. Manning, Friend, Neb. The advertisement appears on another page of The Homestead and in that advertisement Mr. Manning states that he has a very fine lot of Hampshire fall boars, twenty-five in fact, and they are extra choice stock. Mr. Manning has been buying breeding stock from some of the best herds of the country and as he is a good caretaker, he is certain to have some good stock to sell. There are many boars in this lot that are really worth $50. They are big and smooth, with good bone and strong backs and are well marked, but as Mr. Manning is situated in the "dry belt" this season he finds that he will be kept busy buying feed for stock that he is compelled to carry over. For this reason he is offering the best of these twenty-five boars at the very low figure of $15 each and for a check of that size he will put one of the choice boars on board the cars at Friend. We wish The Homestead readers could see these boars, they are now about two and a half months old and will weigh from seventy-five to 100 pounds. That shows that they are good ones and we know that they come of as good breeding as the best breeders have to draw from. Mr. Manning will treat you right, but we would suggest that you get busy with the check book, for these boars ought to sell immediately at the prices asked. They also have a fine lot of great big, heavy-boned White Rock cockerels for sale. They are from a heavy-laying strain and are the property of Mrs. Manning. Send her $1.25 and surprise yourself with the big value you will get. When writing, kindly mention The Homestead.

THE writer called at the Enterprise Stock Farm, Rising City, Neb., a few days ago and looked over the Shorthorns that are to be sold at auction on December 30th. We want to say that C. E. Wade, the proprietor of the farm is some judge of good livestock. He has certainly demonstrated that he knew how to select a boar when he purchased the famous Poland China, Wade's Jumbo. Before that time he was laying the foundation for the present herd of Short-horns, and the females and bulls that he has employed are certainly a compliment to his ability. Probably as good an individual lot of cattle as has been sold in Nebraska during the twelve month are the ones that Mr. Wade will consign for this sale. About thirty head will be sold, comprising almost the entire herd, and including nearly all of the very best on the farm. Mr. Wade is keeping about four of the tops and an equal number of the more ordinary ones of the herd and all the remainder will sell. We want to say that we saw the sappiest lot of bull calves on the farm a few days ago that we have seen all season. They are about the same as was to be seen on this farm two years ago, and at that time they were generally regarded as the best lot of calves in the state. The calf crop is nearly all sired by Rosebud's Star, a bull used last season in this herd. He combined to a rare degree, extreme size and surpassing smoothness. The young bulls and heifers in this sale will prove that he was a great sire. The cows are all bred to, and some have calves at foot by Roan Goods 2d. He is a fine bull. Two years past and a bull of grand conformation, nicely turned and well filled in the quarters and crops and a good full loin. We like this bull. He will probably be offered and is a valuable specimen. He is an Eliza and carries a nice pedigree. We will have more to say of the offering in following issues of The Homestead, we want you to watch these announcements and please apply for the catalog now, that you may be certain of receiving it. A postal addressed as above will insure you getting it. Write at once.

BREEDERS of Holstein-Friesian cattle, or farmers who are interested in the improvement of their milking herds, will find some needed information in the advertisement of Elliott Bros., which appears on page 17. These gentlemen have for sale young bulls, ranging from calves to one year. Most of them are the get of Sir Gerben Pauline, a son of Gudultje Gerben Sir Fobes, and out of Bonnie Lass Pauline. This cow made the world record for her age at five years and two months. She made 33.8 pounds of butter in seven days, gave 2,540.8 pounds of milk in thirty days and 133.38 pounds of butter in thirty days. The grand champion cow at the National Dairy Show at Chicago last year was a sister to Bonnie Lass Pauline. The dams are excellent producers, most of which have official records. One of them, Hillcrest Empress Josephine, has a record of eighty-six pounds of milk in one day and 15,130 pounds in nine months at nine years of age. Aother, Erica Pietertje 2d, in an official one-year record, produced 15,000 pounds of milk and 573 pounds of butter. Rosie 5th, as a two year old, has an official record of 473 pounds of butter and 11,660 pounds of milk. Another of these cows is Gudultje Gerben Wayne, a good individual and rare producer. She is as good as her sister, a cow which, as a two year old, has a record of 642 pounds of butter. The bulls offered for sale have good size and excellent breed character although they may not look their best as they have been roughing it and have received no pampering or fitting. They are in perfect health and thrift. The tuberculin test is applied each year to the herd. For any additional information write to Elliott Bros., Woodward, Iowa.

IN a recent letter from G. H. Tutt, Marathon, Iowa, he says: "I still have some choice spring boars for sale and these are of the leading blood lines. They will weigh up to 300 pounds and are splendid individuals in every respect They are immune to cholera by the double treatment, have been well grown, and the price is within reach of anyone wanting a good boar. I also have a grand good lot of gilts and bred sows that I will sell privately. Now I will be pleased to hear from Homestead readers who want either boars or sows." When writing to Mr. Tutt kindly mention The Homestead.

IRVINEDALE Farm is becoming noted as being headquarters for superior Belgian horses. There are also a few good Percherons on hand at the present time. The farm is located at Ankeny, Iowa, only ten miles north of Des Moines, and is easily reached either over the C. & N. W. Ry. or the Ft. Dodge, Des Moines & Southern Interurban. Those who wish to inspect the stock will be met at trains if they notify Chas. Irvine, Ankeny, Iowa.

COLUMBIAN HOG & CATTLE POWDER, which is the subject of an interesting advertisement on page 10, is worthy of a special investigation on the part of farmers who raise hogs. The expression which heads the advertisement, "Don't bury your profits," is an apt one because farmers of the great Mississippi valley country have buried millions upon millions of dollars' worth of profits in the manner indicated in the advertisement. It is generally admitted that the great majority of hog losses have their origin in worms. Therefore any specific which effects the destruction of worms, means a saving of just that same proportion of hogs. The Columbian preparation is a worm destroyer and a conditioner. In order to introduce this preparation, the manufacturers offer to give any reader of this paper, free, one Columbian self feeder, such as is illustrated in the advertisement. All there is to do is to fill out the coupon in the advertisement and forward it to the Columbian Hog & Cattle Powder Co., Dept. 2, 1450 Genesee St., Kansas City, Mo.

ONE of the most popular herds of Poland China boars at the late Iowa State Fair was that of A. J. Banks. This popularity was evidenced by the fact that the fall boars offered for sale were snapped up at higher than average prices and early in the week. Mr. Banks made an excellent show and captured his share of ribbons. Now he is offering twenty great big spring pigs which carry the blood of Big Orange, Big Sampson and Colossus. He will sell them at reasonable prices. For further descriptions address A. J. Banks, Montour, Iowa. See advertisement on page 38.

ONE of the best public sales of Chester White hogs held last year was that of W. T. Barr at Ames, Iowa. Mr. Barr is more than upholding the reputation then made by having for sale spring pigs of either sex that are big, smooth, well-formed and have strong bones and unusual vitality. He sells them reasonable. Address W. T. Barr, Ames, Iowa.

EVERYTHING guaranteed as represented is the motto of W. J. Hartung, breeder of Duroc Jersey hogs, whose advertisement appears on page 37. We commend Mr. Hartung and his hogs to discriminating buyers. Address W. J. Hartung, Maxwell, Iowa.

ON December 16th, at South Omaha, Neb., C. A. Saunders will make a public sale of fifty or sixty head of Scotch and Scotch-topped Shorthorns, being consignments from the following well-known herds: J. G. Westrope, Harlan, Iowa; C. F. Mitchell & Son, Farragut, Iowa; R. A. Bixler, Corning, Iowa; N. D. Merrill, Creston, Iowa; Hariett & Hanora Wood, Wiota, Iowa; S. C. Beaver, Ulysses, Neb.; H. H. Hess & Son, Surprise, Neb.; Edgar Shoebottom, Fairbury, Neb., and C. A. and John Saunders, Manilla, Iowa. For a great many years Mr. Saunders has been making this South Omaha sale until now it is regarded as a permanent fixture, and he always has good cattle for the occasion. There will be about twenty-five or thirty bulls in the sale and about the same number of females, and a very liberal number of these will be straight Scotch. There will be quite a few that will make splendid herd bulls, and among these will be Sultan's Count, a son of the $2,500 bull, White Sultan, who in turn was a son of that noted show and breeding bull, Imp. Whitehall Sultan. His grandsire is Count Commodore, then comes the great bull, Imp. Fancy's Pride, and then that celebrated bull, Imp. Marquis of Zenda. He is a Cruickshank Victoria, a roan in color and the making of a good herd bull. He sells two other Scotch bulls and his son, John, lists two good young bulls, one of which is Scotch. R. A. Bixler sends one of the best young Scotch bulls in Mina Lad, a February yearling. He is a son of the Canadian bull, Ury Lad, and he is out of Imp. Dalmeny Mina 5th, a daughter of the great bull, Dictator. The dam of this bull is one of the best breeding cows that has ever been owned in southern Iowa. This bull is an outstanding good one and will make a most excellent herd bull. C. F. Mitchell & Son is selling his well-known show and breeding bull, True Cumberland 2d, and he is a son of the great Cumberland's Last. This bull is a white in color, and was third-prize bull at Lincoln this fall without any special fitting. He is a straight Scotch and belongs to the Wimple family. A yearling son of his also sells and his dam is Flora's Favorite by the noted show bull, Acanthus King. His great-grandam is Imp. Cluny Flora 79th, one of the best cows in the Woodford herd a number of years ago. This is a right good young bull and will be appreciated. J. G. Westrope sends two good bulls, one of which is a Cruickshank Victoria, and he is sired by American Goods, a son of Imp. Choice Goods. N. D. Merrill sells Gloster M., a son of Gloster's Favorite, and this bull is also a Victoria. Other breeders are listing some good bulls and a lot of well-bred cows and heifers. Many of these cows and heifers will be Scotch of the best families, and he will, therefore, have cattle that will meet the wants of everybody. There never was a better time to buy Short-horns, and we, therefore, urge those who want them to come out and attend this sale. Write C. A. Saunders, Manilla, Iowa, for catalog and mention The Homestead. See advertisement on page 29.

THE Holbert organization is well known wherever pure-bred draft horses are kept. This firm annually imports a very large number of Percherons, Belgians, Shires and Hackneys, and their trade extends into nearly every state in the Union. While they sell a large number of horses each year to smaller dealers they also sell a large number to buyers of individual horses. The large number that can always be found in their barns gives the buyer an opportunity to select the sort of a horse he likes. By importing in large numbers as this firm do the cost of importation is reduced to a minimum and this advantage is given the buyer. The Holberts are among the oldest importing firms now doing business in the United States, which is good evidence that they handle the kind of horses to please the American public and also that their business dealings have been satisfactory to their patrons. They always have on hand a large selection of stallions and mares of the different breeds and they will gladly answer any correspondence of our readers who will write them mentioning this paper.

THIRTY Holstein bulls are advertised on page 17 by Woodlawn Farm, Sterling, Ill. These youngsters are from one month to fifteen months of age, many of them out of record cows and sired by the outstanding bulls at the head of Woodlawn Farm herd, forming a choice lot of well-made and well-bred calves among which will be found bulls to suit all classes of buyers. These bulls, as well as a few cows and heifers, all from high powered ancestry, will be priced worth the money, as room is needed. Write today for list and particulars to Woodlawn Farm, Sterling, Ill., mentioning The Homestead.

GRAND champion Duroc Jersey swine are seldom offered at public auction and when they are it affords breeders an opportunity to get the best the breed can produce at whatever price they see fit to pay. H. E. Browning, Hersman, Ill., is holding a sale of Duroc Jerseys on December 18th and at that time is selling some grand champion sows. During the past year Mr. Browning made six shows winning thirty-two championships out of thirty-seven that he could show for and 124 first and second prizes. He won

Field Men for The Iowa Homestead

M. T. White, western Iowa, and northeast Nebraska. Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern, central and western Nebraska. Address 145 S. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa, Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201, Washington Building, Madison, Wis.

ten grand championships and at the six shows there were four premier championship prizes all of which were won by Mr. Browning. Tattletale 33d, a junior yearling sow by Volunteer, was first at all the fairs except Des Moines and was second in that show. She was grand champion at the Illinois State Fair. This sow is a wonder, having a world of size, heavy bone, excellent back and is the type of a sow that should prove a valuable producer. Tattletale 30th is another daughter of Volunteer that was the first-prize junior yearling at the Iowa State Fair and second at every other show. She is a magnificent sow and fit to grace any herd. Lucy Wonder 190th is a senior yearling sow by Chief's Col. that was second at Wisconsin, Illinois, Minnesota and Peoria. Helen Blazes 52d is another senior yearling sow by Chief's Col. that was first at Wisconsin, Illinois, Minnesota and Peoria and second at Des Moines and Detroit. Miss Flora 3d is a daughter of The Chief's Col. that won five firsts and one second in the aged sow class and was the grand champion sow at the Minnesota State Fair, 1913. Lillian Russell is another aged sow by Chief's Col. that was third at the Illinois State Fair, 1912. Tattletale 37th was first and junior champion at the Illinois State Fair, 1913, the only place where shown. Tattletale 36th and Tattletale 39th were in the under year herd that won twenty first prizes at the leading shows this year. We doubt if such a collection of show sows which have made such remarkable winnings, were ever offered at public auction in one sale before. Most of them were bred to the noted show boar, Disturber. Mr. Browning will also sell ten under year sows by Defender, Superba and Volunteer and ten spring gilts by Volunteer. In the line of herd boars he will sell Sultan, a litter mate to Disturber, the grand champion under year boar of 1913, and the boar that headed Mr. Browning's undefeated under year herd this year. Sultan is sired by Volunteer and out of a dam by Chief's Col. He is a good lined boar of the right type and looks like he would make an impressive sire. He was never shown until this week when Mr. Browning is showing at the International Stock Show. Crimson Col. was first in class at the Wisconsin and Illinois State Fairs and at Peoria and won second at the Iowa, Minesota ad Michigan State Fairs. He has been shown at twelve state fairs during the part of two years and with one exception never stood lower than second place. He is sired by Chief's Col. and out of a Crimson Wonder 3d sow. High Private was first at Minnesota and Wisconsin, second at Michigan and third at the Illinois State Fair. Send bids to Carlos C. Palmer, Homestead representative, in care of Mr. Browning. Read the advertisement on page 30 and arrange to attend the sale or send a good bid on some of these prize winners.

OUR old friend U. G. Davidson, Algona, Iowa, sends change of copy for his Duroc Jersey boar advertisement which appears on pgae 32. He is offering immune fall boars at from $30 to $50 and spring boars at from $25 to $100. These are sired by Golden Model Jr., and Crimson Wonder Am I. In his letter to us he says: "I have had my hogs vaccinated with the double treatment from Ames and am now ready for business, so come on with your orders I have some fall boars that are all right and while not fat they will make splendid herd boars and I am pricing them where they will sell. My spring boars have also made great gains and I have some good ones for sale, weighing from 125 to 175 pounds. I have two cracking good spring boars of June 18th farrow, weighing from 160 to 175 pounds and they look like show boars to me if grown out right. I have some younger boars by Crimson Wonder Am I, that are the fanciest pigs I have raised in some time. Tell they boys to come and see these boars at once as I am now ready to sell and don't forget to tell them that everything is cholera immune and vaccinated with the double treatment." When writing Mr. Davidson kindly mention The Homestead.

HAMPSHIRE boars of fall and spring farrow are advertised for sale by A. L. Goodenough, Morrison, Ill. Mr. Goodenough is one of the oldest Hampshire breeders and for several years made an enviable show record at the Iowa and Illinois State Fairs. He has been breeding Hampshires along constructive lines, having used nothing but prize-winning boars for several years and as a result of his excellent judgment he has one of the good herds of this popular breed. He has a few good fall boars sired by Shelby Lad, a first-prize boar at the Indiana State Fair in 1911, and a few extra good spring boars, sired by Shelby Lad, Perfectum and Dudie, a winner at several state fairs and a sire of winners at the Iowa State Fair this year. This entire herd has been give the double treatment and for this reason is supposed to be immune from cholera. The boars are being priced at $25 each. At this price they surely worth the money. If in need of a Hampshire boar see the advertisement on page 32 and write Mr. Goodenough kindly mentioning The Homestead.

ON March 6th, J. B. Ashby, Audubon, Iowa, will make a sale of Hereford cattle at South Omaha, Neb., and he will offer fifty head on this occasion. There will be thirty head of bulls in the sale and thirty cows and heifers. The other day we called upon Mr. Ashby and looked over this offering of cattle and while it is a little early to begin talking about them, yet we want to acquaint our readers with what he expects to offer in this sale. There will be eighteen good yearling bulls, big, strong, well-grown, big-boned fellows, nearly every one having a nice head and horn and they are the kind that the breeders and farmers are looking for. The most of these bulls are sired by Clarmont Lad, his former herd that sold to Thomas Mortimer, Madison, Neb. This herd bull has been regarded as one of the best breeding bulls in the state, and his get in this sale will prove this assertion. He is also selling several of his very best show heifers including Clarmont Pet, 2d as calf and 2d as a yearling at Des Moines, also the great cow Helen 2d that sells with two good calves at foot and she is rebred again. He is also selling some great yearling heifers in this sale and they are about as good as you will find anywhere. In due time we will have more to say about the Ashby Hereford offering.

THE annual offering of Percherons at Gregory Farm, White Hall, Ill., Tuesday of next week by W. S. Corsa may well be called a sale of Carnot Percherons, for never before has so much of the blood of this grand champion stallion been offered to the public. Not only are the majority of the mares in the sale bred to him, but ten head of young mares and stallions by him are listed. This lot includes International Percheron Futurity and state fair winners and the enterprising breeder will not overlook this opportunity to secure some of the champion blood. We have already given much detailed information regarding this offering. There are forty-two head in the offering, and listed are both imported and American-bred mares of strong breeding and individual merit, the whole offering topped out by ten head, eight fillies and two stallion colts, the get of Carnot, that need to be seen to be fully appreciated. Don't overlook this sale. A visit to Gregory Farm is a day well spent, whether you buy any horse or not. The breeding operations being carried on there are well worth looking into. You can attend the Corsa sale and leave that night for Pekin, Ill., and attend the Robison sale of Percherons the day following and thus have an opportunity to visit two of the big Percheron breeding establishments of the country.

THE annual offering of imported Shire mares at Trumans' Pioneer Stud Farm, Bushnell, Ill., Thursday of next week, December 11th, will present to the public one of the strongest collections of mares and fillies of this breed that this reliable concern has yet offered to buyers. It is a quality lot throughout, and as has already been mentioned, includes all of their state fair and International winners and champions. Such an offering is always looked for at the Bushnell establishment. The Truman firm does not do things except on a broad gauge scale. The senior member of the firm, J. H. Truman, is constantly buying the very best animals to be found in England, and the accuracy of his judgment has been demonstrated times without number by the successes achieved in this country by horses he has purchased. Quality and breeding first, price a secondary consideration is his method, and as a consequence the horses that come to Bushnell are always a top lot. Those listed for the coming sale are the Truman kind in every sense of the word, and back of them stands a firm with a record of a third of a century of unblemished business dealing. It means something to buy a horse from so high-class a concern as Trumans' Pioneer Stud Farm, as you get the guarantee of a firm of the highest reputation for honesty and square dealing. Attend this sale and you will have an opportunity to see a horse show, as in addition to the mares to be sold there are in the stables at Bushnell over a hundred head of high-class Shire, Percheron, Belgian and Suffolk stallions for sale at private treaty. See page 34.

IN a recent letter from C. F. Mitchell & Son, Farragut, Iowa, they have the following to say regarding their well-known show and breeding bull, True Cumberland 2d, that they are sending to the Saunders South Omaha sale on December 16th. "We have hesitated selling True Cumberland 2d at all, but as we have to have another bull to use on his heifers, and as we don't feel that we can afford to keep two bulls, we therefore finally made up our mind to offer him in this sale. We doubt if you will find many better breeding bulls than this bull. We expect to show two calf herds sired by him next year and we think we will beat any record we have yet made with him. We never specially fitted him as we did not want to injure his usefulness, and yet he was always close up to the top in breeding condition. Had we fitted him just for show it would take a good bull to beat him. Here is a bull that we sincerely hope will be appreciated and we know that he will make some breeder a great herd bull. We also sell one of his sons that will also look good to the boys on day of sale."

DUROC Jersey boars of the best of breeding and of excellent individual merit can be purchased from C. A. Moulton, Morrison, Ill., at very reasonable prices, considering their quality. He has twenty boars of March and April farrow sired by S. E.'s Premier Col. by Premier Colonel, Captain Model by Golden Model, and Success by S. E.'s Premier Colonel and out of Helen's Duchess by Chief's Colonel. A Homestead representative recently visited this herd and can strongly recommend these boars as being good enough to please anyone. They are weighing from 200 to 235 pounds each, have plenty of bone and are very smooth. If anyone in need of a good Duroc Jersey boar will send Mr. Moulton a check for $35 he will get a boar worth much more, and if upon the pig's arrival should the purchaser be dissatisfied he can return the pig and get his money. This is a fair proposition for the buyer and our readers will find Mr. Moulton a high-class gentleman with whom to deal. There is no swine disease in this community. See page 32 and in sending him your order kindly mention The Homestead.

A CONSIGNMENT of Percheron stallions and mares which includes animals of superior quality, was recently brought over by R. Wilkinson & Son, whose announcement will be found on page 35. These horses were selected by a member of the firm in person with the view to bring just the sort which would satisfy the demands of the best class of buyers. While no attempt was made to make cheapness a point in the purchase, the situation of the Messrs. Wilkinson and their methods of care and handling have reduced the cost problem to a low point and they are going to give buyers the advantage of the savings made. They guarantee more quality and horse for the same money than anyone else. They invite personal inspection. Address R. Wilkinson & Son, Mitchellville, Iowa.

EVERY once in a while a representative of this paper finds a herd of Poland China hogs which, while possessing a great deal more merit than the average good herd, has been built up so quietly as to attract little attention. That is just the situation with the herd of J. H. Cope, at Carlisle, Iowa. Mr. Cope has a lot of great big, growthy, symmetrically-formed and healthy spring boars that are good enough to assume places at the head of high-class herds. Mr. Cope, however, wants to get them out of the way of his fall crop and for that reason is offering them at farmers' prices. They cannot remain long unsold at the figures he will name. Write him at once for descriptions.

ON December 18th at Clio, Iowa, will occur the joint breeders' Short-horn sale from the herds of A. W. Barker, Clio, Iowa; W. Preston Donald, Clio, Iowa, and W. L. Ritchie & Son, Allerton, Iowa. These well-known breeders are selling a most excellent lot of cattle in this sale, among which will be thirty head of Scotch, of the very best families. In point of Scotch breeding and individual merit it is the best lot of cattle that has been sold in Iowa in these many years. There will be forty-four head in the sale made up of thirty-seven head of cows and heifers and seven head of bulls. Mr. Al Bark-

Dates Claimed for Live Stock Sales

Short-horn Cattle.

Dec. 16, Breeders' Sale, C. A. Saunders, Mgr., South Omaha, Neb.
Dec. 17, J. T. Judge, Carroll, Iowa.
Dec. 18, L. C. Shepard, Irwin, Iowa.
Dec. 18, A. W. Barker and W. R. Ritchie & Son, Clio, Iowa.
Dec. 30, O. E. Wade, Rising City, Neb.
Jan. 6, Louis H. Scheetz, Belle Plaine, Iowa.
Jan. 16, T. E. Bly, Brewster, Minn.
Feb. 26, W. B. Bonnifield, Ottumwa, Iowa.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, Geo. H. Burge, Mt. Vernon, Iowa.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.
Mar. 25, A. C. Shallenberger, Alma, Neb.
June 9, M. W. Myers, Beaman, Iowa.

Hereford Cattle.

Jan. 13, E. M. Elliott, Montezuma, Ia.
Jan. 14, Henry Reimers, Gladbrook,
Jan. 15, F. O. Peterson, Galva, Iowa.
Feb. 18, Geo. J. Anstey, Massena, Ia., sale at South Omaha, Neb.
Feb. 19-20, Nebraska Hereford Breeders. Sale at Grand Island. R. D. Mousel, Cambridge, Neb., Mgr.
Feb. 25, W. T. McCray, Kentland, Ind.
Jan. 28, Mousel Bros., Cambridge, Neb.
Mar. 5, J. A. Shade, Kingsley, Iowa.
Mar. 6, J. B. Ashby, Audubon, Iowa, sale at South Omaha, Neb.
Mar. 9, B. W. Gregory, Harlan, Ia.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.
Mar. 24, Ben Broughton, Lake View, Iowa.

Aberdeen Angus.

Mar. 25, C. J. Martin, Jefferson, Ia.
Mar. 26, C. M. Russell, Carroll, Iowa.

Holstein-Friesian Cattle.

Jan. 15, F. E. Zimmerman, Metamora, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Poland China Swine.

Dec. 16, Davenport & Mack, Belmond, Iowa.
Dec. 19, A. W. Joy, Herman, Neb.
Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Ocheyedan, Ia.
Jan. 24, Beal & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Ia.
Feb. 2, Coleman Bros., Ithaca, Neb.
Feb. 3, Theo. Martin, Bellevue, Ia.
Feb. 3, C. A. Rosenfeld, Kelley, Ia.
Feb. 4, John Jacobson, Gilbert, Ia.
Feb. 4, E. C. Forest, Lyons, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Ia.
Feb. 6, Williams Bros., Villisca, Ia.
Feb. 6, John I. Dripps, Springville, Iowa.
Feb. 6, Morris Fowler, Arcadia, Neb.
Feb. 7, J. T. R. Nash & Son, Minden, Neb.
Feb. 3, C. W. Francisco, Inland, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 13, J. O. James, Braddyville, Ia.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Ia.
Feb. 17, H. Fesenmeyer, Clarinda, Ia.
Feb. 17, G. J. Bloemendaal, Alton, Ia.
Feb. 18, Pfander & Sons, Clarinda, Ia.
Feb. 19, C. W. Phillips, New Sharon, Iowa.
Feb. 19, L. R. McClarnon, Braddyville, Iowa.
Feb. 20, Frank Rainier, Logan, Iowa.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 24, R. R. Blake, Dallas Center, Iowa.
Feb. 25, J. H. Fitch, Lake City, Iowa.
Feb. 25, R. W. Halford, Manning, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Ia.
Mar. 2, A. W. Stewart, Harlan, Ia.
Mar. 7, J. H. Healy, Manilla, Iowa.

Percheron Horses.

Jan. 14, Glick & Son and J. S. Hegarty, (sale at Stanwood), A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27, Lee Bros., Harveyville, Kan., sale at Manhattan, Kan.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.
Feb. 19, Chas. Irvine, Ankeny, Iowa.

Percherons, Belgians and Shires.

Mar. 19-20, North & Robinson Co., Grand Island, Neb.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Belgian Horses.

Feb. 19, Chas. Irvine, Ankeny, Iowa.

Duroc Jersey Swine.

Dec. 18, H. E. Browning, Hersman, Ill.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, De Young Bros., Sheldon, Ia.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, F. E. Zimmerman, Metamora, Ill.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 15, Ira H. Dodson & Sons, Aledo, Ill.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 20, Wm. Zimmerman & Sons, McNabb, Ill.
Jan. 20, D. Nauman, West Liberty, Ia.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, Kuper Bros., Bellevue, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Ia.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, LakeCity, Ia.
Jan. 26, H. F. Fain, Emmetsburg, Ia.
Jan. 27, E. E. Handley, Carroll, Ia.
Jan. 27, F. H. Dickey, Emmetsburg, Iowa.
Jan. 28, Grant Lynn, Spirit Lake, Ia.
Jan. 28, B. F. Danford, Ord, Neb.
Jan. 28, P. W. Weberg, Denison, Ia.
Jan. 29, O. S. Larson, Logan, Iowa.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Ia.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 2, Hugh M. Ficke, Long Grove, Iowa.
Feb. 2, R. J. Harding, Macedonia, Ia.
Feb. 2, E. H. Carpenter, Fontanelle, Neb.
Feb. 5, Swan & Ellis, Indianola, Ia.
Feb. 6, H. S. Allen, Russell, Iowa.
Feb. 7, Wellendorf & Son, Algona, Ia.
Feb. 10, Merfield & Sons, Greene, Ia.
Feb. 16, Briggs Bros., Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, A. D. Freed, Kelley, Iowa.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, Madison Spencer, Audubon, Iowa.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 24, Fred Swan, Missouri Valley, Iowa.
Feb. 25, Theo. Foss, Sterling, Neb.

Hampshire Swine.

Jan. 8, SalTone Stock Farm, Greensburg, Ind.
Jan. 15, F. O. Peterson, Galva, Iowa.
Feb. 4, C. A. Brook, Washington, Ia.
Feb. 24, Clayton Messenger, Keswick, Iowa.
Mch. 7, C. P. Paulsen, Nora, at Fremont, Neb.
Mar. 12, H. D. De Kalb, De Kalb, Ia. (Sale at Council Bluffs, Iowa.)
Mar. 19, Roy E. Fisher, Winside, Neb.

Chester White Swine.

Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Ia.
Feb. 25, J. L. Barber, Harlan, Iowa.

er, who is the largest contributor, is selling twenty-four head, including his herd bull, Avalanche 2d 312576. Mr. Barker has had one of the best Scotch herds in southern Iowa, and everything he is selling except two or three are Scotch cattle. It will be remembered that he formerly owned the splendid bull, Choice Goods Jr., that was one of the best sons of Imp. Choice Goods, and he was out of Imp. Elsa, that at one time sold in the Smith sale at Allerton, Iowa, for better than $1,000. This bull also sold in the Smith sale as a youngster for $1,000, and he afterwards became a splendid breeding bull, and many of the best females Mr. Barker is selling are sired by him or are out of cows that were sired by him. He is selling his present herd bull, Avalanche 2d, a Cruickshank Secret, sired by old Avalanche. His dam is by Imp. Ducal Crown, and his grandam is by the Bellows bull, Scottish King. He is a large red bull and Mr. Barker has used him with success, and most of the heifers he is selling will be sired by him. Among the splendid females he will offer is Ury Maple 3d, a cow bred by H. C. Duncan, of Missouri. She is an eight-year-old cow, and is a daughter of old Headlight. Her grandsire is the $1,000 bull, Baron Dudding, and then comes the great Baron Rule. This cow is a Campbell-bred Ury, and a good one and she is the dam of some of the best bulls that have ever left the Barker herd. She is well along in calf again to Avalanche 2d. Another splendid cow is Elmira, a five-year-old daughter of Scotch Goods, and her dam is Imp. Elsa, that we referred to above as the dam of Choice Goods Jr. A good roan cow that he is listing is Duchess of Clio, a five-year-old daughter of Choice Goods Jr. and traces to Imp. Duchess of Fife. She is one of his very best and is well along in calf to Avalanche 2d. An excellent roan heifer out of her and sired by Avalanche 2d goes in bred to Tennessee Banff, a well-bred Augusta bull. Another large roan cow he is selling is Ury's Choice, a five-year-old by Choice Goods Jr. She is one of his very best breeding cows. Her daughter, Ury's Choice 3d by Avalanche 2d, also goes in as well as a few others of this same family. Orange Miss is a daughter of that noted bull, Baron Dudding and she is a royally-bred Cruickshank Orange Blossom. She is well along in calf again to Avalanche 2d. Two yearling twin heifers by Avalanche are out of this cow and they are very choice. Another good cow he is selling is Lady Athene 2d, a five year old and sired by Choice Goods Jr. She belongs to that well-known Athene family, and she is strictly all right. Her half sister sired by Avalanche also goes in. Both of these have good yearling heifers in the sale. There will be five of these Athenes from the Barker herd, and they are among the best he will sell. W. L. Ritchie & Son will sell sixteen head, among which will be a number of Scotch cattle. One of these is Athene 3d, a splendid three-year-old cow by White Sox, a son of Choice Goods Jr. She is another one of those good Athenes that will be listed in this sale and she will calve shortly after sale time. Her dam, Athene's Last, a daughter of Evening Star, and one of their best breeding cows also goes in and she is safe in calf to their present herd bull. They also sell a well-bred Princess Royal and an Acanthus cow, and a few others that have four or five good Scotch tops on them. They are listing their present herd bull, Doy, a son of Gordoy Wayne, and three nice young bulls. Mr. Donald is selling three June and July bull calves, and they are among the best of the young bulls that will be offered. These are all sired by Choice Lad, a son of Baron Gloster. One of the best of these is a July calf, a very thick, well-meated fellow, and he is a calf that is well balanced from one end to the other. He also has a good roan calf and another good red bull. The offering as a whole is a well bred one, and it will be a most excellent place to buy Scotch cattle and buy them at your own figures. We know whereof we speak when we say that cattle in this section of the state never bring what they are worth and we, therefore, insist that you will find some great bargains in this offering. Clio, Iowa, is the first town south of Allerton, on the C. R. I. & P. short line from Des Moines, and good connections can be made from north and south. Write A. W. Barker, Mgr., Clio, Iowa, for catalog and kindly mention this paper. See advertisement on page 33.

A STUDY of the catalog for the sale of Percherons to be made at Leslie Farm, Pekin, Ill., Wednesday, December 10th, by A. L. Robison & Sons reveals a line of breeding that cannot be surpassed. When to this is added the fact that the animals in the offering are of outstanding excellence in every particular it should be apparent to every reader of this paper that the coming sale is an event of far more than ordinary importance. There have been many sales of good Percherons at Leslie Farm, but never has there been presented so choice a lot as will go through the ring December 10th. In fact at no sale in the recollection of the writer has their farm offered so many strictly choice mares as are cataloged for this event. The very best type of mares to be found in France were purchased by Archie Robison, including a number of noted winners and in addition there is listed some of the best specimens that the breeding studs of this country have ever produced. In every sale will always be found a few superior animals with a large percentage of common ones. This is not the case with the Robison offering. Everything in the sale is right, and the plainest horses in the offering would be outstanding propositions in the average sale. There are thirty-one mares and fillies in the offering, twenty of them imported and we doubt if their equal has ever before been submitted in a sale by the firm. As an evidence of the excellence of the Robison horses we may say that at the 1913 Illinois State Fair this firm won in the open classes in the Percheron show, first and second on three-year-old mare, second prize produce of mare, third prize best three mares, fourth on get of sire, third on yearling stallion and in the American-bred classes they won second and third on aged mare, fourth on yearling mare, first, third, fourth and fifth on filly foals; first, second and fourth on stallion foals; second and third on yearling stallion, and first and third on produce of mare. The majority of the animals they exhibited are listed for this sale, so the public can see they are getting more than an even divide of the good things at Leslie Farm. Eight of the imported mares were served in France by Government-owned stallions, and the balance of breeding age have been served by Moulinet, champion of France in 1909 and now at head of Leslie Farm stud. Rabelais, one of the best sires ever at Leslie Farm, and a half brother to Calypso and Casino; Jayet by the $5,000 Avocat that sold to the Argentine and a young stallion of great promise. The American-bred mares in this offering are the best Leslie Farm ever offered, are out of the best brood mares on the farm, the get of Moulinet, Rabelais, Hisse Hunt and Kanois, a son of Moulinet. A number of the older ones are broken to work, and all should be as good producers as can be found. The filly foals in the sale number some of the best ever dropped on Leslie Farm, and the stallion colts are the get of Moulinet and Rabelais and are a credit to their distinguished sires. If you are in the market for the very highest type of Percherons attend this sale, as you will find at it the class of animals you are in search of. This sale follows that of W. S. Corsa at White Hall, Ill., and there will be sleeping car accommodations between the two sales. The final announcement appears on page 32.

W. F. HOLCOMB, Mgr., Nebraska Poultry Co., Clay Center, Neb., is starting an advertisement in this issue in which he announces that he has a grand lot of turkeys for sale. He offers choice selections of three breeds. The Bourbon Reds, Mammoth Bronze and White Holland. Mr. Holcomb is a veteran poultry breeder and he has at this time propably the best lot of turkeys to be found on any farm anywhere in the middle West. These turkeys have been grown out on the open range, and they are hardy and vigorous. If wishing to buy anything in the way of improved poultry of any breed write Mr. Holcomb. He will have something to say that will interest you. He also has a model poultry house plan that he will give to readers of this paper that mention this paper when writing. We will have more to say of this poultry house later. We have seen it, and it is a dandy. Write today. See advertisement on page 15.

POLAND China men generally will be interested to know that Thos. A. Shattuck, Hastings, Neb., is still in the Poland China business. His herd, which was one of the good herds of the entire country, was nearly swept away this fall with disease. However, he has a few of the best sows left and has some three or four young boars that are as good as we have ever seen on the Shattuck farm. Two choice boars by Jumbo Chief by Jumbo Pan were saved and three boars sired by Momentum were also brought through. Momentum is the sire of the celebrated Big Tom, also the sire of the first-prize junior year boar at South Dakota fair this season. This latter boar is the property of W. J. Graham, Howard Lake, Minn., and is a full brother to Big Tom. Mr. Shattuck recently shipped a boar to the East, and sent out one of the best on the farm, yet it would be a big question to decide which is really the best of the few young boars left. There will be some good stock here another season, and ere long this herd will be back to the position formerly held. Sampson, one of the former herd boars is now owned by the state agricultural college at Lincoln. He will do a good work for them.

BOYER'S Chester Whites advertised on page 32 have gained popularity because of the enthusiasm of the manager of the herd and the quality of the animals kept. Writing under recent date, the Messrs. Boyer say, "We positively will not sell any of our sows or gilts before our bred sows sale of February 10th. All our best sows and gilts will be put into this sale. Our boar trade is picking up now. We average the sale of one hog every day and buyers are more than pleased with their purchases. We still have on hand some forty odd head of big, growthy fellows with big bone, lots of stretch and good quality. Among them are some extra good herd headers. We ship these boars C. O. D. or on approval to anyone giving good reference, pay express charges and have them recorded in the purchaser's name free. We do not claim to sell the cheapest, but we do say that if we fail to give the purchaser the worth of his money, he can return the hog to us at our expense and it will cost him nothing. Our hogs are in perfect health and there is no disease in this locality." Chester White breeders, who wish to obtain catalogs of the sale may have their names put on the mailing list by writing to B. M. Boyer & Son, Farmington, Iowa.

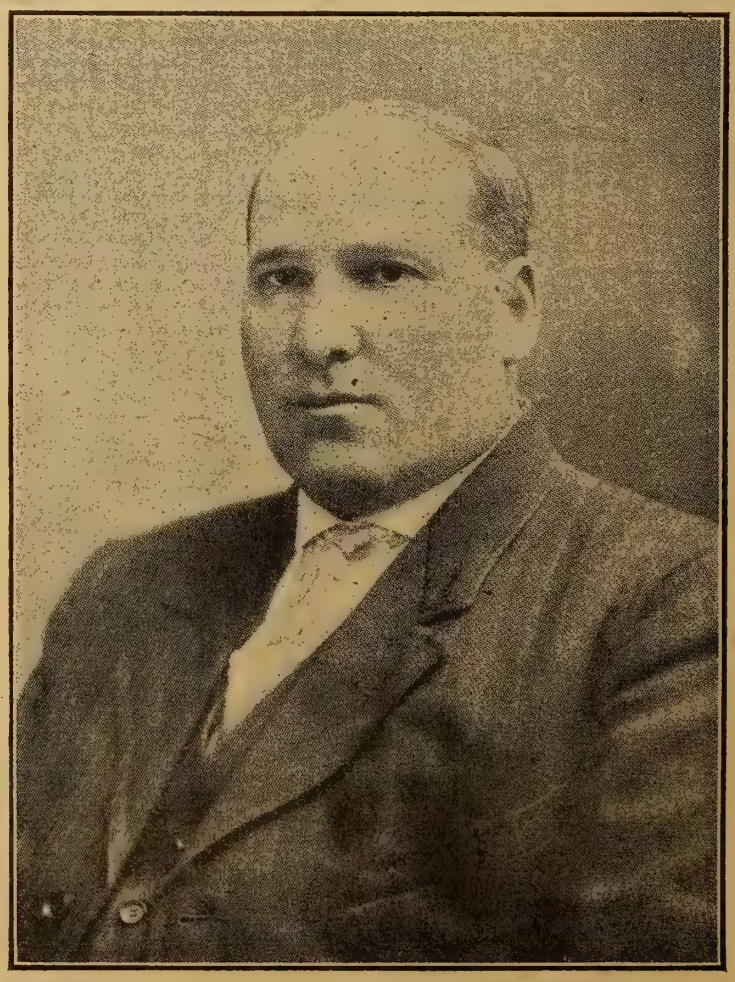
THE writer recently called on the veteran stockman and banker of Genoa, Neb., and spent some time in visiting with him and looking over the herds and flocks. We refer to O. E. Green, of that place. Mr. Green is certainly the sort of business man that the breeds of pure-bred stock need. He is a man that has made a distinct success of life in a financial way, and as a neighbor and citizen he is one of the most honored of a wide section of country. He has always been a strong advocate of better livestock, and has backed his convictions with hard cash. His herds of pure-bred stock have made him money, and at the same time they have been a source of enjoyment, as they of a right should be to any good stockman. Mr. Green at present maintains one of the best herds of Herefords within the state. His herd is headed by two of the greatest bulls to be found in one herd. They are Beau Mischief and Parsifal 16th. They are both sires of more than ordinary note, and are extra good individuals. Beau Mischief is one of the largest of the Anxiety bred bulls to be found anywhere. The other bull is also a bull of much scale, but not so extremely large as Beau Mischief. Mr. Green is selling some nice bulls and a few very choice females in the sale at Denver during the week of the Denver show. He will also sell some very fine bulls and a few females in the Hereford sale that will be held at Grand Island, Neb., on February 19th and 20th. Mr. Green maintains a fine herd of Durocs and will make a sale of bred sows on February 9th. This sale will consist of stock bred by Mr. Green, and they will be a good, even, growthy lot of stock. We would like you to keep this sale in mind, and remember the date. We will have more to say in following issues of The Homestead.

WE ARE this week calling attention for the last time to the sale of Short-horn cattle that will be made by Blank Bros. & Kleen, Franklin, Neb., on December 10th. We have made mention of this offering before, having gone into detail concerning many of them, and this week we will only say that this sale will be a good place to get good cattle and at prices where they should prove good investments. The writer wishes to see a good attendance at this sale, and we believe that it is to the interest of those that are in the market to attend. Plan to be on hand. There will be offered a lot of good bulls and a good line of money-making females.

BIG-TYPE Poland China boars and gilts can be purchased from H. Crabtree, Baxter, Iowa. He informs us that he has enjoyed an excellent trade

NEXT WEEK'S SALE PROGRAM

Monday, December 8	Herefords, W. E. Hemenway & Son, Steward, Ill.
Tuesday, December 9	Short-horns, J. A. Richardson, Wall Lake, Iowa. Shire Horses, J. A. Sage, Ankeny, Iowa. Percheron Horses, W.S. Corsa, White Hall, Ill.
Wednesday, December 10	Short-horns, Blank Bros. & Kleen, Franklin, Neb. Percherons, A. L. Robison & Sons, Pekin, Ill. Short-horns, C. A. Oldsen, Wall Lake, Iowa.
Thursday, December 11	Shire Mares, Trumans' Pioneer Stud Farm, Bushnell, Illinois.



J. C. Huckstep, Eolia, Pike county, Mo., is one of Missouri's noted breeders of the Mammoth Jack and Jennet. See reading notice on page 30.

NO MORE BROKEN OVER CHECKS---

No more sore mouths—no more strained neck-muscles—no more trouble from stumbling—no more driving troubles, if you will equip **YOUR** harness with

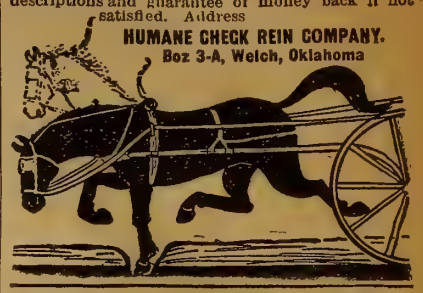
THE HUMANE CHECK REIN

It fits any harness—just bolt it to the back-band. Can be adjusted to tough or tender mouths. Gives with every step. Permits your horse to lower his head to rest his neck or to pull a hill or mud-hole. Lets him travel freer and farther with less effort, brings him in fresher after long trips.

Saves Feed, Saves Whips, Saves Horse-Energy, Saves Your Temper. Most Humane Rein Ever Invented.

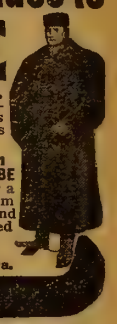
Send for circular containing full particulars, prices, descriptions and guarantee of money back if not satisfied. Address

HUMANE CHECK REIN COMPANY.
Box 3-A, Welch, Oklahoma



You Take No Chances When You Ship Hides to

COWNIE



Thousands of pleased customers, some of them in your neighborhood, are using Coats and Robes made from hides sent us. We can

Save You 50 Per Cent on YOUR FUR COAT OR ROBE

Do not sell your hides for a few dollars but have them made into beautiful coats and robes. Write for large illustrated catalog. Sent Free. Write today.

COWNIE TANNING COMPANY.
508 Market St., Des Moines, Iowa.

C. A. SAUNDERS' SOUTH OMAHA, NEB., SALE

TUESDAY, DECEMBER 16, 1913

50 HEAD---25 BULLS---25 FEMALES---50 HEAD

C. A. Saunders, Manilla, Iowa
John Saunders, Manilla, Iowa
J. G. Westrope, Harlan, Iowa
C. F. Mitchell & Son, Farragut, Ia.
R. A. Bixler, Corning, Iowa

CONSIGNORS

N. D. Merrill, Creston, Iowa
Harriett & Hanora Wood, Wiota, Ia.
S. C. Beaver, Ulysses, Nebraska
H. H. Hess & Son, Surprise, Neb.
Edgar Shoebottom, Fairbury, Neb.

INCLUDED in this sale will be a choice lot of Scotch and Scotch-topped bulls, ranging in age from yearlings to four and five year olds. Among these are some show and breeding bulls of outstanding character that are splendid herd bulls or the making of such. Among the best bulls to be sold will be True Cumberland 2d, a son of the great Cumberland's Last; he was third-prize bull at Lincoln this fall, a straight Scotch and belongs to the Wimple family. C. A. Saunders sells Sultan Count, a richly-bred Cruickshank Victoria, and R. A. Bixler sells Mina's Lad, an outstanding herd bull proposition. A number of others are equally good. There will be a splendid lot of cows and heifers in this sale and a liberal number of these will be Scotch. There never was a better time to buy cattle and it behooves you to be sure to attend this sale. Write for catalog at once and mention The Homestead. Address

Cols. Woods and Kraschel, Aucts.

C. A. SAUNDERS, MANILLA, IOWA

this fall and that his Polands have been giving satisfaction to their buyers. If in need of a good boar or gilt write Mr. Crabtree as per advertisement on page 39. When writing kindly mention The Homestead.

ONE of the more important sales in Duroc circles for some few weeks is the sale of Gold Dust Chief by J. C. Theobold, Ohiowa, Neb., to Wm. Moderow, Beemer, Neb. Mr. Theobold lost much of his herd the past summer and fall with disease and as he had four herd boars decided to let one go. Mr. Moderow is always in search of the best and has thus annexed another boar. Gold Dust Chief was used in the herd of Fred Steinbach for some time and sired some of the best Durocs in Nebraska while in this herd. In the Steinbach dispersion he was purchased by Mr. Theobold. He is one of the very few remaining sons of Ohio Chief, and really one of the very best breeding sons of the old boar that we ever knew of. Mr. Moderow will probably have some sows bred to him in his winter sale. They will positively be good property, as those that have owned sons and daughters of Gold Dust Chief are loud in their praises of this stock. Mr. Moderow will now sell a son of Blue Ribbon Model that he bought back not long ago. This boar is a spring yearling and smooth and well finished. He is the same type as his sire and he was sired by Golden Model 2d. We would advise buying this young boar, for he is right, and were it not for the fact that Mr. Moderow has Blue Ribbon Model, he would not be for sale at all. Some extra choice spring and fall males are also for sale from the Moderow herd, and we want to say that this herd is a good place to buy stock from. Mention The Homestead if you write.

AMOS TURNER, Wilber, Neb., owner of one of the real good herds of O. I. C. swine of Nebraska states that he is about sold out of those good boars. He has only a half dozen good ones left and those wishing one had better make arrangements for one immediately as this will be the last call for them. He is offering a big lot of immune sows however, and they are nearly all bred to White Hope, the first-prize boar at the Nebraska State Fair this season and also won at other leading shows. Some sows are bred to Combination's Last, one of the good boars from the Kent herd. Mr. Turner is selling his stock at a price that stockmen can afford to pay, in fact they can much better afford to buy this good stock at the prices asked than to buy inferior stock at much less, for with the high price of feed of all kinds it will only display good business judgment to buy as good machines as possible to convert this same feed into high-class pork. Mr. Turner has the stock you are looking for. Write him, and kindly mention this paper. See advertisement on page 32.

SHARPLES milkers are accumulating popularity among many of the more extensive dairymen. There are a great many reasons why they do so. One of these is the fact that with but a single operator from thirty to forty cows may be milked per hour. This means a saving of extensive help. A great volume of information concerning the use of the milker may be obtained by addressing a request for the milker book to the Sharples Separator Co., West Chester, Pa. See advertisement on page 17.

H. O. HOUGLAND, Story City, Ia., advertises Duroc Jersey hogs on page 37 of this paper. He has a splendid lot of twenty spring boars that will weigh from 200 to 225 pounds each, although not fat. They are good, big-boned fellows, carrying popular strains of blood and in perfect health. Write him for the low prices which he is quoting in order to dispose of them quickly.

DIRECT from factory plans of selling farm machinery have been the means of effecting great saving to farmers during the past few years. One of the pioneers in this method of dividing profits with the farmer is Galloway, whose big advertisement occupies page 40. In this issue Mr. Galloway is exploiting the Galloway spreader. In this day of soil improvement, a manure spreader is recognized as one of the most valuable farm implements. It not only saves labor, but it effects a distribution of manure in such a manner as to secure its benefits to every part of the land surface. The Galloway spreader is, as Mr. Galloway says in the advertisement, a good one. He not only says so, but he offers to prove it to anyone who is at all interested. To begin with, he has done what few other manufacturers have attempted. He presents the spreader attachment, which may be used in connection with any running gear and which sells at the remarkably low figure of $39.50. This means a saving of from $25 to $45 and that is quite an item. But there are nine different styles and sizes to select from. A complete spreader of the biggest size is sold for $89.50 and between that and the first mentioned attachment, there are variations in sizes and prices that must suit anyone. Now you don't have to pay cash out for these spreaders. You buy them on a thirty

days' free trial offer. You buy them with the agreement that if they are not in every respect just what Galloway says they are, they don't cost you a cent, and you don't have to keep them. By the way, Galloway also makes gasoline engines, cream separators and other sorts of general merchandise, clothing and machinery; and these are sold on the same liberal terms. You may obtain a catalog of each or all by placing a check mark opposite the names quoted in the coupon in the advertisement, filling in your name and address and forwarding it to Galloway Company, 19 Galloway Station, Waterloo, Iowa.

SUNSHINE safety lamps have entirely solved the problem of safety of gasoline as an illuminating material. The Sunshine has no wick, no chimney, no dirt, no odor, no mantle and no trouble. It can be handled as easily and as safely as a common coal oil lamp. It affords a 300 candle power and can be operated at a cost of one-third of a cent per hour. That looks like economy. For prices or other information address Sunshine Safety Lamp Co., 2237 Factory Bldg., Kansas City, Mo.

ON December 19th, A. W. Joy, Herman, Neb., will make a closing-out sale of his large-type Poland Chinas and it will be a great place to buy some real high-class hogs. Andy Joy has been one of the very best breeders in eastern Nebraska and now that he is retiring from the business he will certainly have some splendid things to offer. He will sell ten extra choice brood sows and

60 POLAND CHINAS
AT AUCTION

At Pike Timber Stock Farm

BELMOND, IOWA, TUESDAY, DEC. 16, '13

BIG-TYPE POLAND CHINA BOARS

WE are putting into this sale 60 typical big type boars that have style and smoothness combined. They are the get of our great herd boar Big Wonder 180955 and other sires. Their dams are by Jumbo 170495. All are in perfect health and thrift. Usual accommodations. Col. J. A. Benson, auctioneer. Catalog ready.

DAVENPORT & MACK, BELMOND, IOWA

these are strictly all right. He will list from twenty to twenty-five spring gilts that will average from 250 to 275 pounds and they are all that a man could ask for. These will be sired by Hadley Gold Dust, Henry Expansion, Half Ton Wonder and the well-known boar, Sampson. We saw these gilts some time ago and will say to Homestead readers that they are right in every way. His sows are also splendid brood sows and he is also selling a number of good boars. His offering is all that we say it is and we will stand behind all we have said about it. We cannot help but think here will be a great place to buy some high-class Poland China brood sows, spring gilts and good boars. Included will be his splendid boar, Half Ton Wonder, a son of Hillcroft Half Ton. This boar was 5th prize boar at the Nebraska State Fair in one of the strongest classes shown at that fair. He is a good large-type boar and a good breeder. Make it a point to get his catalog at once and then if you want anything be sure to get to his sale or be represented with a bid. Our M. T. White will attend the sale and will care for any bids sent in his care. When writing him kindly mention The Homestead.

THE Good Luck herd of Poland Chinas advertised on page 39 is a herd which has for twenty years or more borne an excellent reputation as a source of supply of Poland Chinas which carried size, finish and breed character. At the present time forty head of fall and spring boars of the more desirable sort are offered for sale. Descriptions may be obtained by writing to L. S. Fisher & Son, R. 1, Edgewood, Iowa.

FOR thirty days only, Harry Hurless, Ogden, Iowa, will sell the highest class of big, growthy, well-formed Chester White boars at reduced prices. The Hurless herd is one of the good ones of the state. The buyers have always found the best quality of pigs in it. Write him without delay.

WITH this issue of The Homestead, D. S. Cochran, R. F. D. 7, Lincoln, Neb., is starting an advertisement in which he offers a select lot of Duroc Jersey gilts and they will be sold either bred or open. These gilts are of excellent breeding and are good individuals. They will be bred to the great Royal Wonder, one of the really great breeding boars of the breed today. He is probably the best son of I Am A Crimson Wonder 2d in use, and we want to say that he is a breeding hog of unusual excellence. A gilt bred to this boar will absolutely make good. A few are bred to other young boars. Mr. Cochran also offers a few late spring boars, all of good breeding and good colors and are good individuals. They will be put on board the cars at Lincoln in good crates and for $20 to $25 each. The $20 ones are not poorer boars, but are younger. Send order without delay and you will surely get good value. There are also a nice lot of early September pigs for sale and they are all by Royal Wonder. We do not think that better values than these pigs have been offered this season. They go while they last at $10 to $12.50 each and will ship either sex. This is the way to get the good stock at little expense. Write without delay and mention The Homestead.

GENASCO asphalt roofing boasts peculiarities which renders it especially valuable as roofing material for farm buildings and in water proofing foundation walls or other sections of buildings that are the better for the water proofing. Asphalt is a natural wood preserver. It preserves fence posts, underpinning, troughs or bridges. It prevents the corroding of iron. But its importance in these points is second to that which it occupies as the dominant material in roofing. See advertisement on page 13 and for further particulars write to Barber Asphalt Paving Co., Chicago, Ill.

KENDALL'S Spavin Cure is a remedy which should be kept in every farm medicine chest. It is serviceable in the cure of curbs, spavins or ordinary lameness of horses. It is sold at the low price of $1 and may be secured at druggists or ordered direct from Dr. B. J. Kendall Co., Enosburg Falls, Vt. See advertisement in page 16.

IN last week's issue we made announcement of the C. A. Olsen Shorthorn sale which is to be held at Wall Lake, Iowa, on December 10th, and we want to once again emphasize the fact

BROWNING'S DUROC JERSEY

ANNUAL HOLIDAY SALE

HERSMAN, ILL., DECEMBER 18, 1913

50 KINGS AND QUEENS OF THE BREED

INCLUDING OUR GREAT SHOW HERD OF 1913. LOOK OVER THE LIST. DID YOU EVER SEE AS MANY GOOD ONES GO UNDER THE HAMMER IN ONE SALE?

COL. CRIMSON 41315
Sired by Chief's Col., and his dam by Crimson Wonder III., his second dam by Educator and his third dam by Proud Advance. Exhibited in all the big shows of 1912 and 1913 and never below second.

SULTAN 48901
Sired by Volunteer, dam by Chief's Col., second Mc.'s Dream, litter mate to Drafted, our grand champion under year boar that won five firsts and two grand champions in 1913, headed fifteen first-prize herds and was in five first-prize herds.

HIGH PRIVATE 44031
Sired by Volunteer, dam Lucy Wonder 109 by Educator, second by Proud Advance; third dam Lucy Wonder XXI. 35240n, out of Lucy Wonder 6334; grand champion Columbian Exposition, Chicago, 1893. This boar was winner in our 1913 shows.

MISS FLORA 80256
Winner in our 1912 and 1913 show herd, bred to Chief's Col. Sired by The Chief's Col., out of Florazel V. She comes from the show blood of the Mahan herd. She is a producer of good pigs. One of her pigs is in use at the Ohio Experiment Station herd.

Spring Boars by DISTURBER
One out of a Tippy Col. dam, one out of a Pal's Col. dam, three out of a Defender dam, two spring boars by Volunteer, one out of a Chief's Col. dam, one out of a Defender dam. Herd heading material bred right.

Sows by the GREATEST BOARS
Of the breed, Model Wonder, Superba, Defender, L. E.'s Valley Chief, Disturber, Volunteer and Prince Educator. Mated to Chief's Col., Disturber, Fashion Col. Crimson. Sows and gilts that will make your herd famous by the produce they bring forth.

TATTLETALE XXX.
TATTLETALE XXXII.
TATTLETALE XXXIII.
Winners in our 1913 show herd. Junior yearlings sired by Volunteer, out of a Defender dam, and bred to Disturber and Chief's Col. These sows are the big, stretchy kind that has made history for the Durocs. You can't buy these kind too high.

TATTLETALE XXXV.
TATTLETALE XXXVI.
TATTLETALE XXXVII.
Under year show sows, winners everywhere shown in our under year triumphs. Sired by Volunteer, dam by Superba. Three as royal sows in breeding and conformation as was ever driven into a sale ring or a show ring.

Send for illustrated catalog; it is full of the cream of the breed. Send bids to Carlos C. Palmer, Homestead representative, in my care. Aucts.—Reppert, Igleheart, Kraschel, McGowan and Irwin. Address all inquiries to

H. E. BROWNING, Hersman, Brown Co., Ill.

Closing Out Sale
POLAND CHINAS
Herman, Nebraska
December 19, '13

I am selling ten of the best brood sows in the state of Nebraska. **21 Choice Gilts** that **will average from 250 to 325 pounds.** Also my herd boar, **Half Ton Wonder,** 5th prize boar at Lincoln. Everything goes. Write for my catalog and mention The Iowa Homestead. Address

A. A. JOY,
HERMAN - NEBRASKA

Col. E. Z. Russell, Auct. M. T. White, Field Man for Homestead

that he is selling a most excellent lot of cattle. A limited number of these are Scotch of the best families, but the most important feature of this sale is that they are good cattle. Individually and collectively they are a great bunch of well-bred, well-fitted and useful Shorthorns. He is selling ten young bulls in this sale and while only one of these is Scotch, yet they are a great bunch of bulls, and not a poor one in the entire offering. These bulls are all reds and roans, well fitted and well grown, and there are some splendid herd bulls among the bunch. He is selling a grand good lot of cows and heifers among which are daughters of the great Imp. Scottish Pride, Ceremonious Archer, Best of Goods, Gondolier, Cumberland 2d, Victoria's Sultan J. Maringo, Gipsy King and other good bulls. The individual merit of the Olsen cattle is such as will impress itself upon those who are wanting good cattle in nice condition, and anybody will be dissatisfied with his offering when they go to his sale. His sale will be the day after the J. A. Richardson sale and breeders can attend these two sales with the same cost. Write for his catalog at once and kindly mention The Homestead.

LEE BROTHERS, Harveyville, Kan., the well-known breeders of Percheron horses are claiming January 27th as the date of their annual sale. On the above named date these breeders will sell forty head including their entire show herd with the exception of their great herd stallion, Scipion. This sale will be held in the new sale pavilion at the Kansas State Agricultural College, Manhattan, Kan., where these breeders made their very successful sale last December. Our readers will recall the remarkable record made by Lee Bros.' show and herd in the various great western shows this year, including the American Royal, and can readily appreciate the class of the offering that will be presented in this great sale, when the announcement is made that the entire herd will be included in the offering with the exception of the undefeated champion, Scipion, their great herd stallion. Bear this herd and sale date in mind and plan to be in Manhattan on January 27th. In writing for further information kindly mention this paper.

PERHAPS to a greater extent than is the case with other sorts of farm machinery, the effectiveness of the incubator depends upon the principles with which the general farmer is not familiar. This fact accentuates the importance of an incubator which is built upon scientific lines adapted to specific purposes and with a simplicity which prevents disorders and wrong interpretation of directions. That the X-Ray incubator belongs in this class cess which it has attained in the few years in which it has been before the public. A recent turn in affairs of the manufacturers demanded greater factory facilities, which resulted in the building of a new plant at Des Moines, Iowa. It is said that this factory is most complete in its plans of operation, in its machinery employed and in the perfection of manufacture, which is possible because of its remarkable equipment. One of the appealing feais abundantly shown in the great suctures of the X-Ray is that one gallon of oil will complete an entire hatch. This will be appreciated by those who have undergone the fussiness of filling and cleaning a greasy lamp every day. The advantages of the X-Ray are so many that we must ask our readers to secure information concerning it from the X-Ray catalog, for which address the X-Ray Incubator Co., Des Moines, Iowa, mentioning this paper. See illustration on page 33.

MAGNIFICENT Fuehr & Stemmer Pianos may now be secured in every farm home under the remarkable plan enumerated in the advertisement on page 9. This piano has been a popular favorite among musicians for twenty years. Musical conservatories and col-

leges have shown their appreciation by using great numbers of them in their instruction departments. After reading the advertisement, it would be well to secure complete information for which address Fuehr & Stemmer Piano Company, East 24th St., Chicago, Ill.

FOR the reason that he has no use for him this season, I. F. Reilly, St. Paul, Neb., will sell his famous herd boar, Combination, or he will lease him to some reliable man for the season. This boar is one of the best in the West today. He is a proven sire of the very highest order and his get have already made reputation for themselves. We doubt if a better proposition has been offered the Poland China breeders in a long time. Mr. Reilly could use him again a year hence, but as practically everything on the farm at present is sired by him he will have no use for him this season. This boar has sired prize winners, and a great number of extra good breeding boars. We recommend this boar to those looking for a sire that is positively first class in every way, and he is immune. Buy him or lease him. It will be a good move.

WITH this issue of this paper, W. A. Irvin, Miller, Neb., one of the best known poultry breeders of the state starts an advertisement in which he offers Barred Rocks and also some Buff and Blue Orpington ducks. Mr. Irvin's reputation as a breeder of Barred Rocks is not surpassed by anyone in the West, if in fact by anyone in this country. He has bred some of the greatest show birds of the breed, and today has one of the heaviest laying strains possible to find anywhere. In the egg-laying contest at Topeka his fowls have been making a wonderful record. We believe that it would be positive economy to purchase a cockerel from this flock, or better still to purchase a few pullets and a cockerel, for in that way one would get a start of the very best to be had, and as they have been bred for generation after generation for utility as well as beauty, they are the sort that make good from a dollars and cents standpoint. The writer does not hesitate to recommend this stock, and as the prices are as low as one can ever hope to secure this sort of stock for, there is no argument in favor of waiting. The ducks are good ones of their respective strains and are very heavy layers and fine table fowls. It seems strange that good farmers and others would deny themselves a treat like a good fat Orpington duck when a foundation of this stock can be had at such a little cost. See advertisement on page 15.

W. J. ALLEN, representing the department of agriculture of New South Wales, Australia, recently purchased of J. C. Huckstep, Eolia, Pike county, Mo., for the New South Wales government, a pair of mammoth-bred jacks and three jennets. Over 10 head were inspected by Mr. Allen and Mr. Huckstep is to be congratulated on breeding and handling the kind that are selected for such discriminating trade. A jack and two jennets were sold during the early fall to go to South Africa, a jack and fifteen jennets were also sold to a Georgia man. During the year of 1913, Mr. Huckstep has sold more mammoth bred jacks and jennets than in any like period since he has been breeding. His barns now hold more heavy-boned black jacks with white points than have ever been quartered there at one time. He has built a large business by dealing squarely with every man and by handling jacks and jennets he can stand squarely behind with his personal guarantee which is as good as is possible to find any place. Our readers who are in the market for jacks and jennets would do well to go and see the stock Mr. Huckstep has on his fine farm. Note page 35 and when writing him kindly remember to mention this paper.

HUNTERS -- TRAPPERS

If you want an ideal lamp for night fishing, trapping, hunting or for work about farm or machinery, send to-day for a

Baldwin Lamp

Projects a 14 candle power light 150 feet. Burns Acetylene Gas. Weight 6 oz. Height 3½ in. Can be carried in hand or worn on cap or belt, leaving both hands free. No oil, soot or glass. Absolutely safe and simple. Fifty hours bright light costs 25c. Useful as well during Automobile repairing. Catalogue free and instructive booklet, "Knots and How to Tie Them" mailed on request.

At all dealers or by mail prepaid - $1.00 JOHN SIMMONS CO. 133 Leonard St. New York City

THE Nebraska Poland China hog, The Big Orphan, gained distinction not only as a great breeder, but as a popular show hog and his get have been much sought after. One of his best sons is offered for sale by A. Kool, Cordova, Iowa. This is a big, smooth fellow and a herd boar of more than ordinary merit. He will be sold very low because his owner cannot use him sale were snapped up at higher than longer to advantage and must make a change. Address inquiries to A. Kool, Cordova, Iowa.

HONEST mills sold in an honest way is the motto of the manufacturer of the Ditto feed grinder advertised on page 13. The mill is sold on the honor of the buyer. It may be obtained with the payment of no money down and returned at the expense of the manufacturer if it is not satisfactory. Nothing more could be asked. Write for the free catalog which tells all about this offer. Address G. M. Ditto, Box 12, Joliet, Ill.

ON December 18th, L. C. Shepard, Irwin, Iowa, will make a sale of Scotch and Scotch-topped Short-horns, and he will have some good cows and heifers and some good bulls in this sale. His sale will follow the J. T. Judge sale at Carroll, the day before, and parties can attend both sales very easily. There will be twenty-one head, with nine calves at foot, among which will be seven head of young bulls. Among the good Scotch cows is Lady

J. T. JUDGE'S "ALL-SCOTCH" SHORT-HORN SALE

THE GREATEST OFFERING OF SCOTCH BULLS AND THE BEST LOT OF SCOTCH COWS AND HEIFERS THAT WILL BE SOLD IN ANY SALE THIS YEAR

CARROLL, IOWA, WEDNESDAY, DECEMBER 17, 1913

48 HEAD

36 Cows and Heifers

12 SCOTCH BULLS OF HERD HEADING KIND

48 HEAD

A GROUP OF EXCEPTIONALLY GOOD SULTAN STANDARD BULLS TO BE SOLD IN THIS SALE

YOU will find in my sale as good an offering of **strictly Scotch cattle** as has ever been sold in the State of Iowa. Included will be Cruickshank **Victoria, Orange Blossom, Lavender, Butterfly, Gold Hunt Maid, Minerva, Nellie of Carlogie, Veronica, Secret, Violet,** and other famous tribes and individually they are high class in every particular. I am selling a grand, good lot of **Scotch bulls,** among which will be the massive yearling, **Diamond Sultan,** a son of the noted Scotch Sultan and out of the great cow, Golden Nell. **Sultan's March,** is one of the greatest white bulls that will be sold this year, and **King Major** is one of the best yearling bulls, both being sired by my great herd bull, **Sultan Standard. Sultan's Count** is another splendid, great, young white bull, and a couple Cruickshank Victorias are hard to beat. I am cataloging my best Scotch cows and heifers in this sale and they are very choice. There will be **eight head of Sultan Standard heifers in my sale** that are indeed hard to beat. All cows are bred and safe in calf or will have calves at foot. There will be **twelve head of calves that will be sold with dams.** The Sultan Standard heifers will all be bred to Diamond Sultan. **Of all that is good my offering affords the very best,** and if you want that kind be sure to attend my sale. **Catalog now ready and will be mailed upon application.** Address

COLS. WOODS AND McGUIRE, AUCTIONEERS.
WHEN WRITING FOR THE CATALOG KINDLY MENTION THE HOMESTEAD

J. T. JUDGE, CARROLL, IOWA

Douglas 3d, a granddaughter of Imp. Lady Douglas, the dam of the great bull, Cumberland's Last. He is listing two good Cruickshank Secret cows and a number of the Scotch-topped kind. Nine calves sell at foot with dams. There will be seven nice young bulls, among which is a September 12th calf got by Baron Favorite and out of Lady Douglas 3d. The sire of this bull is a son of Imp. Fashion Favorite and out of Imp. Meadow Beauty 5th. This bull is good enough to head a herd and somebody is going to buy a bargain in him. Another good bull is a grandson of Lady Douglas 3d. There will also be four nice Scotch-topped bulls in this sale. Most of the cows with calves at foot are rebred. It will be a good place to buy bargains in Short-horns. Write Mr. Shepard at once for catalog and mention Homestead. See page 33.

ON page 33 will be found the advertisement of P. J. Eggers, Denison, Ia., one of Iowa's best known and most reliable horsemen. He comes back again with another splendid lot of imported and home-bred Percheron, Belgian and Shire stallions and mares, and these he is now offering the public at the most reasonable prices. His horses range in age from two to seven years and they are sold with a guarantee of 60 per cent foal getters. Pete has a lot of good horses now in his barns and he will be pleased to have intending purchasers stop and see them. His barns are right near the Chicago and Northwestern depot, and parties can easily stop off between trains and see him. When writing him kindly mention The Homestead.

NO HERD of Poland China hogs of Iowa has attained greater distinction for the production of extraordinary size than has that of M. G. Arnold & Son, which is advertised on page 39. At the present time pigs by Orange Boy are offered for sale. This hog is a son of the noted Big Orange and possesses the excellent points of that hog to a remarkable degree. Special prices, made in order to clear up the season's crop, may be obtained on orders sent in at once. Address M. G. Arnold & Son, Strawberry Point, Iowa.

AT THREE of the leading state fairs this fall the Iowana Berkshires demonstrated their worth by winning many championships and many herd prizes. This is not to be wondered at when one considers the high-class breeding boars at the head of this herd the strong sows with which they are mated, and the intelligent manner in which Manager Thatcher conducts the handling of the animals. They are raised under the most progressive and sanitary conditions, every animal has been given the simultaneous treatment to immunize them against cholera, and when one buys at Iowana he knows that he is getting the best that the breed affords. That is the only kind handled at Iowana Farms. If you are in the market for a boar, some gilts or want the highest type of brood sows you can find them at this progressive breeding establishment. Look up the advertisement on page 38 and write the manager, J. L. Thatcher, Davenport, Iowa, for particulars, mentioning The Homestead.

SANDWICH Corn Shellers have been a standard of sheller values for a great many years. The improved sheller, illustrated in the advertisement on page 8 is one of the most up-to-date machines made. Farmers usually have a considerable spare time during winter. To such it is of interest to know that, having one of these Sandwich shellers, a winter's profitable work may be obtained without any of the expenditure. There is always shelling to do. A free sheller book, giving a lot of interesting facts, may be secured by writing to Sandwich Mfg. Co., 170 C St., Sandwich, Ill.

C. A. RITCHIE, Gresham, Neb., owns one of the best Short-horn bull calves that we know anything about. He is sired by a son of Cumberland's Last and is from a grand producing cow of the Cruickshank Gwendoline family. He is a full brother to the best heifer that we saw in Nebraska last season. This calf will interest someone looking for a high-class herd bull or for a junior year show bull, although handicapped some on age. This is an outstanding proposition. Write Mr. Ritchie and mention The Homestead.

IF any of our readers want to buy a nice bunch of Scotch and Scotch-topped Short-horns at private treaty they should read the advertisement of W. E. Cutler, Corydon, Iowa, at once, which appears on page 35. He is making the most reasonable prices on these cattle because he is compelled to leave the farm on account of sickness. Wire or phone him if you want these cattle as they are decidedly great bargains.

IF you have not purchased your Duroc Jersey boar as yet and you want a good one at a reasonable price, read the advertisement of W. J. Wendt, Remsen, Iowa, on page 32 and write him your order at once. His are all cholera proof and immune, and they are good. Write him about these boars at once.

A STRONG demand for sows and gilts should encourage prospective buyers of bred sows to make their purchases early in the season. B. F. Marmion, Farmington, Iowa, informs us that he has a few good big-type Poland China boars for sale and is also breeding a bunch of large, growthy spring gilts to his good, young herd boar, Wonder Jumbo, sired by Nebraska Wonder, a son of Fesenmeyer's noted A Wonder, and out of a sow by Jumbo Junior. This boar is fourteen months of age, has a ten-inch bone and weighs 525 pounds. These gilts will soon be ready to ship out and Mr. Marmion will be glad to take your order at once. He also has some May and June gilts that he is offering for sale open at a very reasonable price. See page 39 and write him, kindly mentioning The Homestead.

EVERY farmer that is a reader of The Homestead has need for a good fur coat. No class of men are so exposed to all the variations of the weather as is the farmer and stockman. A good fur coat is the warmest and at the same time lightest garment that has ever been devised for protection against the rigorous blasts of old King Winter. Save a good cow or horse hide if you have one and get the Lincoln Tannery, Lincoln, Neb., to make you a coat. If you have no hides, buy from them direct. They also buy all kinds of hides and furs. These gentlemen are first-class tanners, will make you a coat or robe that is practically moth proof and well made, so that it will last for years and years. Kindly notice their advertisement on page 15 and write them for prices.

THERE is always a fascination in hunting and trapping. At the present time there is also a quite considerable profit in trapping. The profits are made more sure if traps of the right sort are used. None has a better reputation than the Victor traps, advertised on page 12. None is made by a more reliable concern than the Oneida Community, No. 8, Kenwood Ave., Oneida, N. Y. And a book of expert experience and advice on trapping may be secured by writing to the address named.

ON page 17 R. B. Dairy, Station, B., Omaha, Neb., makes an interesting announcement whereby he is shipping calves of both sexes, secured from the large dairies around Omaha at $7.50 each. These are of all breeds and are from heavy milking dams, and are from a week to ten days old. Send your orders for as many as you want at once, and when ordering kindly mention The Homestead.

BUYERS of Duroc Jersey hogs who appreciate the blood of old Golden Model, should investigate the pigs offered for sale by A. R. Olson, Woodward, Iowa, whose advertisement will be found on page 37.

THE silver cup winning Hampshires are in strong demand from the herd of F. T. Quire, Sully, Iowa. He informs us that he has had an excellent trade in boars and only has five left and they are sired by Eddie Moch, a son of the undefeated grand champion, Messenger Boy. These pigs are weighing 160 pounds each and are being priced at $25 each. At this price they will soon be sold and we would advise any of our readers in need of a Hampshire boar to send Mr. Quire their order at once. This gentleman will hold a sale of bred sows February 17th and will have a good lot to offer the public on that date. Mention The Homestead in writing.

HOWARD R. MOORE, Dexter, Iowa, advertises Duroc Jersey hogs on page 38. The animals he offers are big, lengthy, heavy-boned fellows with quality. They stand well on their feet. The fall boars are by a son of the noted show hog, Educator, and their dam was the daughter of Crimson Wonder Again. The second dam being the noted brood sow, H. A.'s Queen. Write to the above address for prices or additional information.

FARMERS who can use May and June Poland China boars are referred to the advertisement of H. E. Burgus, which appears on page 39. These pigs are offered at unusually low prices and in addition they are recorded and express charges prepaid to any point in Iowa. There are some by the noted A Wonder and from brood sows of equally popular blood lines. Send orders to H. E. Burgus, R. 2, Osceola, Ia.

D. S. COCHRAN, Lincoln, Neb., is offering some extra choice September pigs sired by the great Royal Wonder, and these pigs are being priced at $10 and $12.50 each. They are great bargains and those interested should send early, as this class of stock will not last long. Royal Wonder pigs are good, and they breed on. Order without delay. Pigs of either sex for sale.

SUMMIT KNIT-NEK VESTS are advertised on page 25. They are made with particular reference to close fit and comfort. They are also light weight and durable. Style book, giving complete descriptions, may be obtained by writing to Guiterman Bros., 347 Sibley St., St. Paul, Minn.

THOSE of our readers who want a good Duroc Jersey boar, should write or go and see A. F. Hager, Avoca, Iowa. He has a nice bunch of boars sired by A. F.'s Pilot Wonder that he is closing out at farmers' prices. Write him about these boars at once.

SPECIAL sleeping car accommodations have been arranged between the Percheron sale of W. S. Corsa, White Hall, Ill., Tuesday, December 9th, and the sale of A. L. Robison & Sons, Pekin, Ill., the day following, leaving White Hall at ten o'clock the evening of De-

ROBISON'S OFFERING OF HIGH-CLASS PERCHERONS

AT LESLIE FARM, NEAR PEKIN, ILL.,

WEDNESDAY, DECEMBER 10, '13

40 HEAD---34 Mares and Fillies---20 Imported---6 Stud Colts

INCLUDED in this offering are mares with prize-winning records in France and America, among them some of the best that have ever been imported. American bred mares that have the richest breeding and the strongest individuality. Sensational filly foals by Moulinet, the champion horse of France, and stud colts by Moulinet and Rabelais, a half brother to Calypso and Casino. Mares are bred to Moulinet, Rebelais, Jayet, son of the $5,000 Avocat, with the exception of a few of the imported mares, that were served in France to outstanding sires. This is an offering of Percherons of superior merit in every particular, without doubt the greatest lot of the breed that has gone through a sale ring in a long time, and we cordially invite the attendance and patronage of the buying public, as we know that we have the horses to suit the most critical. The sale will be held at Leslie Farm, which is at Leslie Station on the Big Four railroad, fifteen miles from Peoria. All trains stop at the farm. Catalogs upon application. Cols. Jones, Reppert and Seeley, Aucts. Mention The Homestead and address

A. L. ROBISON & SONS, PEKIN, ILLINOIS

JEAN, a Sensational Filly by Moulinet

cember 9th and arriving at Pekin the next morning in time to take the Big Four train to Leslie Farm.

HOMESTEAD readers are quite familiar with the Poland China advertisement of William F. Drummy as it appears on page 39. That gentleman now has twenty-five big, long, lusty growthy, heavy-boned boars, and a number of choice females for sale. These are of popular strains of blood. Some of the females will have been bred for March or April litters. These pigs are sired by Wonder D., (he by the great Fesenmeyer hog, A Wonder), Big Bone, Long Hadley, Sampson and others of note. Their dams are sired by Long Wonder 2d, Hutch, Sentinel, Chief Jumbo and others. The herd is in strictly good health and the pigs offered for sale will be placed at most reasonable figures. Address inquiries to William Drummy, Ryan, Iowa.

THE illustration on page 13 is made from a photograph of the Shire mare, Ankeny Flora. This animal is cataloged to be sold at the public sale of J. A. Sage on December 9th as per advertisement of last week. She is a magnificent specimen of the breed, with plenty of scale, big boned, attractive symmetry and excellent muscular development. She has style and spirit with all her other qualities. She is six years old, just entering upon her age of usefulness and should be a splendid purchase for someone who wants to get into the pure-bred horse business. For catalog of the sale, write to J. A. Sage, Ankeny, Iowa.

DUROC Jersey boars of spring farrow are offered for sale by J. E. Smith, Victor, Iowa. He has one of the prominent herds in the state and has been using boars of the very best quality for several years. His spring pigs are sired by Smith's Crimson Wonder by Crimson Wonder 3d, Victor Colonel by Premier Colonel, Crimson I Am by Crimson Wonder I Am, and Golden Prince. They are out of sows sired by Model Wonder, Kelly's Pilot Wonder, The Professor, Proud Colonel and other boars of equal merit. See the advertisement on page 37 and write mentioning The Homestead.

THE American Chester White herd is advertised on page 36. This herd is headed by Chief Select, an animal whose record as a sire of good ones is rapidly becoming appreciated by those who are looking for the very best Chester Whites. There are also boars and sows of fall and spring farrow by Hiawatha and Path Finder. Address Alden Anderson, Ellsworth, Iowa.

APPLETON wood saws are models of strength, simplicity, durability and effectiveness. They are made in several sizes and adapted to all the purposes of a wood sawing machine. They are sold at very reasonable prices. Descriptive booklet may be obtained by writing to Appleton Mfg. Co., 639 Fargo St., Batavia, Ill. See advertisement on page 20.

IMMUNE Poland China boars, sired by B. B.'s Orphan, a son of the 1,065-pound boar, The Big Orphan, are advertised for sale by Ben Broughton, Lake View, Iowa, on page 39. He is pricing these boars at $50 and $35 in order to close them out.

IF you have not ordered that Duroc Jesey boar yet, get busy and send for one from C. R. & R. W. Steele, Ireton, Iowa. They are all cholera proof and immune and a $30 check will get you a good one. Mention The Homestead when writing them.

HIGH-GRADE Guernseys and Holsteins are advertised on page 17 by H. L. Dunning, Hebron, Ill., who makes a specialty of car lots. Mr. Dunning has over 400 head from which to make selections.

A. W. STEWART, Harlan, Ia., is closing out all his Poland China boars at from $20 to $40. Read his advertisement on page 39 and write him at once about these boars.

HAVING about thirty head of extra good Duroc Jersey boars for sale, William F. Drummy makes an announcement on page 37 which will be of interest to those who are in search of big-boned, long, deep-bodied hogs, which are of the choicest lines of breeding. He also has gilts bred for March and April farrow that are sired by such noted hogs as Drummy's Col., (he a son of Freed's Col.) Illinois Chief, Supreme Goods, Cherry Prince and Superba Jr. Their dams are daughters of Red Wonder 2d, Cash Boy, Notcher F., Drummy's Col., Iowa Notcher and others of equal merit. Mr. Drummy makes a point of making quick sales at small profit for the next thirty days. He quotes specially low prices, invites inspection or correspondence. There is no cholera in his neighborhood. Address William F. Drummy, Ryan, Iowa.

ON page 38 an announcement is made that R. J. Bronner will ship on approval some big, lengthy, high-quality Poland China big-type boars that have been given treatment for immunity from cholera. These pigs are by Giant Wonder, a hog bred by Peter Ellerbroek, and their dams were by a hog that won third place at the International Exposition last year. Any responsible reader of this paper may have one of these boars shipped on approval and at a reasonable price. The gentleman also has for sale three large red Short-horn bulls of excellent lines of breeding, which he will sell at specially low prices if taken soon. Address him at once. R. J. Bronner, R. 5, Box 36, Cresco, Iowa.

WITH over eighty large-boned, black mammoth jacks on hand to select from, Al E. Smith, Lawrence, Kan., is better prepared than ever to supply prospective jack buyers with what they want. Standing fifteen to sixteen hands standard measure guaranteed and priced to sell, these jacks will be found to be the kind discriminating buyers are looking for. Mr. Smith's farm is located adjoining Lawrence, just forty miles west of Kansas City on the Santa Fe and Union Pacific railroads, easy of access as the train service is unsurpassed. Mr. Smith will meet you at Lawrence any time that you notify him to do so. See page 35 and in writing for further information kindly mention this paper.

WAYSIDE STOCK FARM at Pulaski, Iowa, produces excellent Poland China hogs and Polled Durham cattle. At the present time the farm is offering for sale fall and spring boars, some of which are good enough to head good herds. A little later forty head of bred gilts and sows will be offered. The proprietor informs us that he believes these to be the best bunch of big-type hogs that he has ever raised. He now has in service Jumbo, Big Prospect, Equal's Wonder (grandson of A Wonder) and E. J.'s Wonder (a son of A Wonder and out of a Big Joe dam.) Prices or descriptions may be learned by writing to E. J. Augspurger, Pulaski, Iowa.

SOME unusually high-class young Scotch bulls are advertised for sale by J. G. Westrope, Harlan, Iowa, on page 35. Get busy and go and see these bulls at once if you are wanting a herd bull.

O. J. SATRE, Jewell, Iowa, still has for sale a few good boars by the son of Big Jones. Write him for special prices.

MONDAY of next week, December 8th, is the date for the sale of Hereford cattle and Clydesdale horses by W. E. Hemenway & Son, Steward, Ill., particulars regarding which have already been given in these columns. The buyer will find some excellent things in this offering. Thirty-four head of Herefords are listed including daughters of Masquerader, Ben Bolt and Prince Star Grove. The latter bull will sell as will also nine of his sons. Ten Clydesdales, thee registered and the balance high grade will be sold. Steward is seventy-seven miles from Chicago on the St. Paul division of the Burlington railroad and six miles from Rochelle, on the main line of the Northwestern.

PIKE TIMBER STOCK FARM at Belmond, Iowa, announces a public sale to include sixty head of high-class Poland China boars on December 16th. A large proportion of these boars are the get of Big Wonder, 180955, a hog that, aside from carrying the most popular big-type blood lines, is a breeder and producer of size, quality and finish. The dams of the pigs are largely by Jumbo 170495. This hog also represents popular lineage and has gotten a class of brood sows that impress themselves upon breeders, who insist upon bigness, goodness and early maturity. Additional information will be given in a later issue of this paper. For catalogs address Davenport & Mack, Belmond, Ia. See advertisement on page 29.

ON March 25th, A. C. Shallenberger, Alma, Neb., will hold his annual sale of pedigree Short-horns. This sale will be one of the more important sales of the season, hence this early announcement. Mr. Shallenberger has in times past sold some of the extra good stock of the state, but this sale will consist of fifty head and far better than many offerings fro mthis herd and fully the equal of the best ever sent forth from this well-known breeding establish-

TOO LATE TO CLASSIFY.

DUROC JERSEY BOARS AT THIRTY-FIVE DOLLARS EACH

I HAVE 20 big, smooth, good boned boars of March and April farrow that weigh 200 to 235 pounds each. They are sired by **Success** (by S. E.'s Premier Col., dam by Chief's Col.), S. E.'s Premier Col. and Captain Model by Golden Model. The dams are of best breeding. I know these boars will please you and if you will send me a check at once for $35 I will send you a boar and if you are not satisfied upon his arrival send him back and I will return your money. There is no hog sickness in my community. Send me your order, mentioning The Homestead.

C. A. MOULTON - - - - MORRISON, ILLINOIS

15 OUTSTANDING IMMUNE DUROC JERSEY FALL BOARS 15

I AM offering some **outstanding immune fall boars,** good enough to head herds, that are extra heavy bone, very long and very even side lines. These are sired by C. Indicator, best of colors, and good heads and ears. Special prices to move them. Write me at once, mentioning Homestead.

W. J. WENDT - - - - - REMSEN, IOWA,

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. All sows reserved for bred-sow sale February 10, 1914. Write

B. M. BOYER & SONS - - - - FARMINGTON, IOWA

GOODENOUGH HAMPSHIRE BOARS

I HAVE 6 fall yearling boars and 6 good spring pigs sired by Shelby Lad (1st prize state fair winner) Dudie (another state fair winner) and Perfection. All have had double treatment and I am selling them from $25 to $35 each. Send me your order, mentioning The Homestead. Address

A. L. GOODENOUGH - - - MORRISON, ILLINOIS

A FEW BOARS, GILTS BRED OR OPEN, AND FALL PIGS

A FEW choice Duroc Jersey boars, April, May and June farrow at $20 and $25. Extra choice gilts open or bred to the great Royal Wonder. Also a nice lot of September pigs sired by Royal Wonder at $10 and $12.50 each. This is one of the greatest boars of the breed and a great opportunity to start with the best. Address, mentioning The Homestead,

D. S. COCHRAN, R. F. D. 7, LINCOLN, NEB.

IMMUNE BOARS---IMMUNE BOARS---IMMUNE BOARS

DAVIDSON'S CRIMSON WONDER BOARS ARE NOW IMMUNE. Fall boars $30 to $50, sired by Golden Model Jr. Spring boars $25 to $100 by Golden Model Jr. and Crimson Wonder Am I. Write

U. G. DAVIDSON - - - - - - ALGONA, IOWA.

JAMES LAWLER'S IMMUNE POLAND CHINA BOARS

50 IMMUNE Poland China boars. 8 good fall boars, 42 spring boars sired by Miller's Choice 170929 bred by John Miller, and Chief Price A 173973, bred by Peter Mouw, and Giant's Equal 198449, he by Equal's Giant 184927, he by Long King's Equal 177373. Their dams include all of the best big-type breeding. They are sired by Rock Valley Chief, Expansion King Jr. 2d, Chief Price Jr., A Wonder, Big Tom and Carey's Long Wonder. Come and see them or write for prices.

James Lawler, Clare, Iowa

10 POLAND CHINA BOARS to Close Out 10

I HAVE ten big-type boars to close out at private sale; four by the champion, Columbus; two by Price's Jumbo and three by Smooth Big Bone. These are farmers' boars and go at farmers' prices. Write today as this ad. will not appear again.

O. J. M'CULLOUGH, CLARKS, NEBRASKA

H. S. ALLEN

Russell, Iowa

Live Stock Auctioneer

SALES made for all the leading breeders in all parts of the country. Write for dates.

Immune O. I. C. Bred Sows

AM offering the grandest lot of gilts ever raised on our farm. They are mostly bred to the first prize boar, White Hope, also Combination's Last. If you wish good hogs at right prices, write me.

AMOS TURNER - WILBER, NEBRASRA

FOR SALE BIG SURPRISE 2d 154139

A HEAVY-boned 4-year-old Poland China boar by Big Surprise, dam C.'s Bates 376016, bred by E. L. Crow, Webb, Iowa. Weighs about 750 lbs. If you want a valuable herd boar address Mrs. Floyd Gillette, Hampton, Ia., or J. A. Bushyager, Sheffield, Ia.

READ THIS---HAMPSHIRE FALL BOARS

WEIGHT 75 to 100 pounds. Well bred. Buy now, save money, save express. $15.00 each. F. O. B.

F. S. MANNING - FRIEND, NEBRASKA

When writing to advertisers please mention The Homestead.

ment. This herd is the home of the great young bull, His Highness, one of the great individual and breeding bulls of the country. Keep the herd in mind, and watch The Homestead for full announcements of the sale. G

WITH present prices of eggs flirting around the 50-cent mark, any means of obtaining winter eggs looks like a profitable one. The big advertisement of the Dr. Hess Poultry Pan-a-ce-a which appears on page 14 of this issue suggests a solution of the egg problem. Dr. Gilbert Hess (shown at work in his laboratory in the accompanying engraving) has spent almost a lifetime in the experimental work leading to the perfection of preparation advertised. It is now offered as a guar-

anteed means of producing poultry thrift and vitality and adding to egg-producing capacity. Note the prices named in the advertisement. Forward orders or requests for information to Dr. Hess & Clark, Ashland, Ohio.

THREE BIG PAPERS $1.25.

The Iowa Homestead, Twice-a-Week Republic of St. Louis, the biggest and best semi-weekly in the Southwest, and Farm Progress, a big semi-monthly farm paper, sent a full year for $1.25. Send orders to St. Louis Republic, St. Louis.—Adv.

McDermott's Short-horn Sale.

The sale of Short-horn cattle held by J. W. McDermott, Kahoka, Mo., on November 25th, drew one of the largest crowds of breeders seen at a Missouri sale in some time past. The cattle were an exceptionally well-bred lot and with the exception of a few head were in nice condition. The top of the sale was $600 at which price J. E. Grey, of Iowa, took the ten-months-old roan bull, Count Avondale, a son of Good Count and Matrimony 2d by Avondale. His dam went to Uppermill Farms in Iowa at $505, the top on females. Parker Bros., of Nebraska, secured Whitehall Prince at $510 and he was considered a bargain. Maid of Whitehall, a show heifer went to Chas. Nelson, of Illinois, at the moderate price of $405. Seven heifers not listed were sold, but not figured in the averages. These brought an average considerably above $100. Cols. Jones and Reppert did the selling. Following is a list of sales over $100:

FEMALES.

Matrimony 2d, calved April 3, 1909; Uppermill Farm, Wapello, Iowa	$505
Maxwalton Matrimony, calved Aug. 3, 1911; E. S. Loveland, Mt. Pleasant, Iowa	200
Maxwalton Janet 2d, calved May 8, 1911; S. P. Emmons & Son, Mexico, Mo.	250
Lady of Fashion, calved April 29, 1910; Robert Shank, Williamstown, Mo.	215
Rosa Bond's Beauty, calved Mch. 17, 1904; L. E. White	155
Sayer's Queen Gloster, calved June 2, 1910; J. R. Rippie, Jr.	140
Fair Countess, calved May 15, 1909; E. H. Conable, Gregory, Mo.	250
Sayer's Gloster Girl, calved Aug. 17, 1910; Rutherford Bros., Revere, Mo.	225
Fair Duchess, calved Dec. 5, 1911; Rutherford Bros.	115
Pearl Fair Goods, calved Nov. 7, 1908, and c. c.; L. A. Gorrel, Winfield, Iowa	320
Fair Berry, calved Nov. 25, 1908 and b. c.; E. H. Conable	275
Fair Bells, calved Dec. 25, 1909; T. B. French & Son, Farmington, Iowa	185
Fair Lucy, calved Nov. 1, 1908; T. B. French	175
Fair Rosaline, calved May 15, 1912; R. R. Smiley	105
Lulu Fair Goods, calved May 23, 1912; R. R. Smiley	105
Sweet Alice, calved May 2, 1913; R. R. Smiley	105
Fair Goods Marigold, calved July 17, 1911; J. R. Rippie Jr.	115
Fair Judith, calved June 15, 1911; Rutherford Bros.	105

BULLS.

Golden Count, calved Sept. 30, 1911; E. H. Conable, Gregory, Mo.	350
Count Avandole, calved Feb. 1, 1913; J. E. Grey, Columbus City, Iowa.	600
Whitehall Prince, calved Sept. 22, 1913; Parker Bros., Hooper, Neb.	510
Star Cumberland, calved Jan. 14, 1912; H. Reese & Son, Pilger, Neb.	170
Whitehall Barmpton, calved Jan. 13, 1912; R. R. Smiley, Monmouth, Ill.	135
Whitehall Orphan, calved Mar. 31, 1912; J. L. Sanders, Memphis, Mo.	300
Imperial Sultan, calved Dec. 15, 1912; E. L. Martin, Taylor, Mo.	150
Red Count, calved July 2, 1912; Wm. Stark, Palmyra, Mo.	130
Edith, calved April 17, 1911; R. R. Smiley	135

SUMMARY.

8 bulls	$2,345; average	$293.12
33 females	6,620; average	200.60
41 head	8,965; average	218.66

FERTILIZE GARDEN IN FALL.

To the Editor of The Homestead:

The garden plot can be made the most valuable ground about the place. It will grow over a hundred dollars' worth of vegetables every year if properly fertilized and cultivated. All gardens demand intensive cultivation, and it does not pay to plant good seed in soil that is not fertile. Better garden crops will be grown, and the farmer will get more satisfaction in seeing them grown if the soil has been properly fertilized.

The best time to fertilize the garden is in the fall of the year. At this season there is generally a large supply of fertilizer on hand. This can be spread liberally on the garden, for even if it is fresh it will have the entire winter to decompose and assimilate with the soil. After it is spread evenly over the ground it should be plowed under. Set the plow deep and cover it well. By spring the manure will have rotted and added humus to the soil.

One advantage in manuring in the fall the ground will be plowed and ready for early planting. All that will be necessary is a double disking, harrowing and leveling. This means not only the securing of an early crop but a better one. When the seed are planted early the roots will strike down deep into the moist soil and the dry season that comes later will not greatly affect the plants.

Then fall plowing of garden will destroy many weed seed. They will sprout and be killed by the cold weather. This means easier cultivation of garden. Subscriber.

FACTORY OF THE X-RAY INCUBATOR CO.
See field note on page 30.

Lady Fair Goods, calved April 20, 1912; S. P. Emmons & Son		145
Fair Charity, calved Nov. 24, 1911; H. Reese & Son		165
Sweet Choice, calved Sept. 30, 1912; H. Reese & Son		190
Sultan Heress, calved Nov. 26, 1911; Uppermill Farm		180
Whitehall Laura, calved Sept. 10, 1908, Uppermill Farm		285
Rosedale Athene, calved Nov. 7, 1912; Carl Izenburg, Taylor, Mo.		195
Patti Brooks, calved Mch. 10, 1907; J. R. Rippie, Sr., Lancaster, Mo.		200
Whitehall Patti, calved Nov. 1, 1912; Carl Izenburg		195
Maid of Whitehall, calved Sept. 5, 1911; Chas. Nelson, Blandensville, Illinois		405
Whtehall Prncess, calved Jan. 3, 1912; Parker Bros., Hooper, Neb.		285
Rosa Hope 19th, calved Jan. 4, 1909; L. E. White, Revere, Mo.		200
Countess 2d, calved Jan. 18, 1910; R. R. Smiley		200
Villa Grove Beauty, calved June 13, 1912; Chas. Nelson		210

Bumper crops of hay and corn were harvested in Jefferson county this season. Many farmers are building temporary fence wire cribs in which to house their surplus corn and large quantities of hay have had to be stored outside the barns.—[Wisconsin Farmer.

JOINT BREEDERS' SALE
SCOTCH AND SCOTCH-TOPPED
SHORT-HORN CATTLE

THIRTY HEAD OF THE RICHEST SCOTCH CATTLE IN THIS SALE

CLIO, IOWA, THURSDAY, DEC. 18, 1913

44 HEAD---7 BULLS---37 COWS AND HEIFERS---44
FROM THE HERDS OF
A. W. BARKER, CLIO, IOWA
W. PRESTON DONALD, CLIO, IOWA
W. L. RITCHIE & SON, ALLERTON, IOWA

INCLUDED in this sale will be 30 head of Scotch cows and heifers of the Cruickshank Orange Blossom, Acanthus, Ury, Athene, Elsa, Duchess of Fife and Princess Royal tribes. All old enough will be safe in calf and many will be right at their calving, while some will have calves at foot. There will be seven bulls in the sale, among which will be Mr. Barker's herd bull, Avalanche 2d 312576, a Cruickshank Secret and a splendid breeding bull. W. L. Ritchie & Son sell their herd bull, Day 35393, a son of Gador Wayne, and three young bulls, together with twelve good cows and heifers. W. Preston Donald sells three good young bulls and one cow with calf at foot. In no sale this fall will such an opportunity be offered to buy Scotch cattle at such reasonable prices as will be found in this sale. Cols. Harry Graham and Fennel Bros., Auctioneers. Write for our catalog at once and mention The Homestead. Address

A. W. BARKER, MGR., CLIO, IA.

Clio is located on C. R. I. & P. Short Line between Des Moines and Kansas City. It is the first town south of Allerton, Iowa, on main line between Kansas City and Chicago.

L. C. Shepard's Short-horn Sale
IRWIN, IOWA, DECEMBER 18, '13

I WILL offer at public sale 21 head Scotch and Scotch-topped Short-horns, 9 calves at foot; 7 choice young bulls, three of which are Scotch. One of these is a Cruickshank Secret and two belong to the Lady Douglas tribe. One splendid Lady Douglas cow in the sale and some good Secrets. Rest are Scotch-topped. Parties can come direct from the J. T. Judge sale the day before. You can buy them right in my sale. Leon Shepard and Marion Armentraut, auctioneers. Send for my catalog, mentioning The Homestead. Address L. C. SHEPARD - - IRWIN, IOWA

HORSES.

HOMEWOOD STOCK FARM
Our regular Fall Importation of
PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES

ARRIVED in October, and are now on sale at our barns. The stallions are mostly two year olds and the mares are yearlings and two year olds. In addition we have on hand some extra weighty three and four-year-old stallions, both imported and American bred, from which to make selections. We guarantee all our animals in every way, and sell under a 60 per cent breeding guarantee. Horses priced as low as is consistent with good quality and rich breeding. Write us today.

We can sell you a better horse for less money than you can find at any other establishment.

S. METZ & SONS, HOMEWOOD, ILLINOIS

Homewood is 23 miles south of Chicago on Illinois Central railroad, with trains every hour.

The BEST IMPORTED STOCK

Choice big mares and splendid over-a-ton-type stallions. These are PERCHERONS and BELGIANS—each a perfect specimen and remarkably low priced. EVERY DAY A BARGAIN DAY AT MY SALES BARNS.

WRITE NOW! V. W. HARMS, FAIRBURY, ILLS.

POLLED DURHAM CATTLE.

D. S. Polled Durhams, reds and roans, both sexes. Tuberculin tested. Reg. and right. Choice herd headers, others cheaper. F. Bunker, Kilbourne, Wis.

POLLED DURHAM BULLS—Some thick beefy bulls for sale. Write for prices. Address Walter Johnson - Dorchester, Nebraska

MONEY IN GRAIN.

$10.00 buys puts or calls on 10,000 bushels of wheat or corn. No further risk. A movement of 5c from price gives you an opportunity to take $500; 4c, $400; 3c, $300, etc. Write for particulars. Finance Brokerage Company, Desk 8, Finance Bldg., Kansas City, Mo.

IMPORTED AND HOME-BRED
PERCHERON BELGIAN and SHIRE Stallions---Mares

RANGING in age from 2 to 7 years, weight 1,500 to 2,150 pounds. Sold under guarantee 60 per cent foal getters. Come and see me. Barns near C. & N. W. depot. Mention Homestead. Address P. J. EGGERS - DENISON, IOWA.

BUY FUR NOW

Because you can get REEL QUALITY fur at wholesale prices. We are the third largest receivers in the world of raw fur shipments direct from trappers. Send 5c for our catalog—it brings the World's best styles to you at reasonable prices. HERMAN REEL CO., MILWAUKEE, WIS., U. S. A.
P. S.—Trappers! Write for our Price List and Shipping Tags.

IMPORTED SHIRE MARE AUCTION

TRUMANS' PIONEER STUD FARM

BUSHNELL, ILL., THURSDAY, DECEMBER 11, '13

40 HEAD---INCLUDING ENGLISH AND AMERICAN WINNERS---40

A TOP lot from the best studs in England, running in ages from fillies to mature mares, nearly all the latter bred to our International champion, **Lockinge Hengist. These mares are the Truman kind, backed up by the Truman guarantee.** Attend this sale. Come to Bushnell and see the greatest horse show in America. Cols. Jones and Keck, Auctioneers. Write today for catalog, mentioning The Homestead, to

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS

We Have 125 Shire, Percheron, Belgian and Suffolk Stallions for Sale at Private Treaty

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WE ARE IMPORTERS

of the Best Blood of Europe in

PERCHERON AND BELGIAN STALLIONS AND MARES

Only horses of the best quality handled. All horses young and fresh. No carried over stock. Prices, terms and guarantees right. Your correspondence solicited for full particulars. Large calendar free after December 1st.

W. A. LANG & COMPANY, GREELEY, IOWA

THE BEST IMPORTED AND AMERICAN-BRED PERCHERONS, BELGIANS AND SHIRES

Are to be found in our stables. We solicit the inspection of prospective buyers, knowing we can suit the most discriminating. Our horses have size, bone, quality and the right conformation. Our prices are reasonable, terms easy and guarantee liberal. Write us today mentioning The Iowa Homestead.

TAYLOR & JONES - WILLIAMSVILLE, ILLINOIS

On Chicago & Alton Ry. and Illinois Traction system, 12 miles from Springfield.

OAKLAWN STOCK FARM

Breeds and Imports Percheron, Belgian and Shire Stallions and Mares.

I HAVE a fine collection of big, rugged, heavy-boned Percheron, Belgian and Shire stallions and mares ready for the inspection of buyers. If you want the kind that has been winning at the state fairs, at rock bottom prices, see what I have before you buy. Stallions and mares of all breeds on hand. Write me for any information you may want, mentioning The Homestead.

GEORGE EGGERT NEWTON, IOWA

IRVINEDALE FARM BELGIAN HORSES

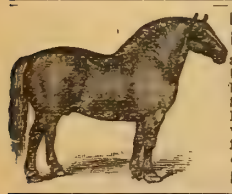
IMPORTED and home-bred stallions and mares. Good ones for those who want high-class stuff and cheaper ones for farm buyers at farm prices. Stock for sale at all times. Public sale February 19th. Ankeny is ten miles north of Des Moines on the C. & N. W. and Ft. D., D. M. & S. Interurban. Address

CHAS. IRVINE - - - - - ANKENY, IOWA

AMERICA'S FAMED HORSE DISTRICTS.

THIS particular district, famed for Percherons. The Chandler herd noted for draftiness, substance and bone, is a strong factor in turning the tide to American-bred Percherons. Possibly not French fat, but bigger frames more power better feet and legs. American users love this useful type and get them from my big bunch reg. studs weanlings to 4 yrs. Write to-day.

FRED CHANDLER, R. 7, CHARITON, IOWA.



HART BROS.'S NEW IMPORTATION PERCHERONS AND BELGIANS arrived Oct. 8, 1913. The best lot of 2-year-olds brought over his year. Some will weigh 1900 lbs. Great big fellows with size, bone and quality. Come see them at once. Address

HART BROS, - OSCEOLA IOWA

IMPORTED AND HOME-BRED

PERCHERON----BELGIAN AND SHIRE STALLIONS AND MARES

Ranging in age from weanling colts to five year olds, for sale at very reasonable prices. A large number to select from. **A. Latimer Wilson - - Creston, Iowa**

YOU WILL WISH TO

Purchase Percherons

when you see the Percheron exhibit at the International. 555 Percherons, the pick of the world's studs, will be shown. Come. Train your eyes by looking at the best types. Meet the leading Percheron breeders, and acquire information at first hand

PERCHERON SOCIETY OF AMERICA.
Wayne Dinsmore, Secretary.
U. S. Yards - - Chicago, Ill.

FOR SALE

After October 15th,

PERCHERON STALLIONS

from 2 to 5 years old. **Singmaster & Walker,** at Stock Yards, Sioux City, Iowa.

Percheron Stallions

FINE large 2-year-old Percheron stallion, one yearling Percheron stallion, $1,000 takes the two. Also have Hereford bull calves for sale.

H. D. CCORE - - LUCAS, IOWA

SHETLAND PONIES

THE small gentle kind. I have them from baby ponies to grown ones, broke to drive and ride, for sale. Address

S. W. HARR - - - RIVERSIDE, IOWA

WANTED TO BUY, Home bred or Imported

Percheron or Belgian stallions or mares, registered and sound, 2 to 5 years old, weight 1700 and upwards. Give full description and low cash price with first letter. J. P. Franklin, Box 305, Grand Island, Neb.

GET YOUR REGISTERED

ROAD and draft stallions and mares of the breeder at first cost. **E. P. Hamilton & Sons, Garden Grove, Decatur County, Iowa.** 23 miles S. W. of Chariton, Iowa, 82 miles S. of Des Moines, Iowa, at Leroy.

AN EXTRA LOT OF YOUNG CLYDESDALE

STALLIONS that I will sell at right prices. Address R. O. Miller, Route 1, Lucas, Iowa.

A. LATIMER WILSON, Creston, Iowa, Home bred draft stallions $250 to $650. Imported stallions cheaper than anywhere else. Come and see.

---

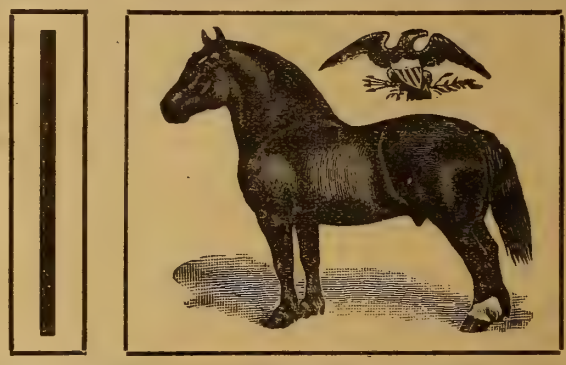
300 SHETLAND and Welsh ponies for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

---

FRANK L. STREAM, Creston, Iowa. Imported and home bred Percheron, Belgian and Shire stallions and mares. All ages at reasonable prices.

HOLBERT HORSE IMPORTING CO.

Percherons Belgians and Shires



NEW IMPORTATIONS CONSTANTLY ARRIVING

We have at any time of the year more Big Ton, High-class Percheron and Belgian Stallions than any other firm in the United States.

A. B. HOLBERT, Prop.,
GREELEY - - - IOWA

BELGIAN EMPORIUM OF AMERICA

LARGEST COLLECTION OF BELGIAN DRAFT HORSES ON EARTH.

ALSO twenty Choice Percheron Stallions. The fall importation of 100 head, the second importation for 1913 swells the number on hand to 175 stallions, mares and colts. Many Prize Winners; Many Descendants of Prize winners, All Choice animals. We are Farmers and Stock Breeders; Twenty-eighth year in the Belgian horse business. Each year adds to our strength, and now we can defy competion in Quality, Quantity and Prices.

4 FARMS ALL ADJOINING; 7 LARGE BARNS.

Our railroad facilities are fine. Fairfax is on main line of C. & N. W. Ry.; also on Marion, Ottumwa and Kansas City Division of C. M. & St. Paul Ry. Eight miles from Cedar Rapids; 40,000 inhabitants, telephone from Cedar Rapids for auto or team to meet you at Interurban, car every hour. Farms 2 miles from Fairfax, 3 miles from Interurban. Free catalog, 100 illustrations.

H. LEFEBURE & SONS, - - - FAIRFAX, IOWA

PARAMOUNT STOCK FARM

IMPORTS AND BREEDS

Percherons, Belgians and Shires

NEW importation has arrived and includes the best lot of two-year-old stallions that I ever brought over. If you want to buy the kind that can win in the best shows in America and Europe write me for prices or other information mentioning The Homestead. Address **WM. CROWNOVER, HUDSON, IOWA.**

TWO DAYS' SALE SCOTCH AND SCOTCH-TOPPED SHORT-HORNS

WALL LAKE, IOWA, TUESDAY, DEC. 9, '13

40 HEAD---ONE-HALF OF WHICH ARE SCOTCH---40 HEAD

I AM selling **17 bulls** and **23 cows** and **heifers**, many of which are sired by my great bulls, **Pride's Best** and **Standard Goods**. Of the Scotch families listed will be **Butterfly, Dorothy, Eliza, Ury, Brewster Beauty, Rose of Aberdeen, Orange Blossom, Marchioness** and other well-known tribes. There will be thirteen choice cows in the sale, eight of which will have calves at foot. I am selling a grand, good lot of young bulls in this sale, many of which are good enough to head the best of herds. Col. Fred Reppert, Auctioneer. Write for my splendid catalog at once. Address

J. A. RICHARDSON, WALL LAKE, IOWA

WALL LAKE, IA., WEDNESDAY, DEC. 10, '13

40 HEAD---9 BULLS--31 COWS AND HEIFERS---40 HEAD

I AM selling as good an offering of Scotch and Scotch-topped Short-horns as you ever saw in this section of the state. There will be **13 calves at foot of dams,** mostly sired by the noted bull, **Scottish President.** Included will be Ceremonious Pigeon, a daughter of the noted prize-winning bull, Ceremonious Archer; also Snowball, a daughter of the great Best of Goods, as well as a lot of others equally well bred. Nine extra choice bulls are listed, all but one of which are sired by Victoria Sultan, a son of the $1,000 bull, Sultan 3d. It will be hard to find a better lot of bulls than I am listing for this sale. Col. Fred Reppert, Auct. Write for catalog at once.

C. A. OLDSEN, WALL LAKE, IOWA

WHEN WRITING FOR CATALOGS TO ABOVE BREEDERS KINDLY MENTION THE HOMESTEAD

SHORT-HORN CATTLE.

MILLER'S 1913 SHORT-HORN IMPORTATION ARRIVED

I JUST recently arrived home from Canada with a **choice importation of young Scotch bulls and twenty head of as good heifers as was ever brought to this country.** Among these bulls is a royally-bred **Missie,** a **Nonpareil,** a **Clementina,** a **Wedding Gift** and a **Countess** that are good enough to head any herd in America. Among richly-bred heifers will be found **Mina, Village Girl, Buttercup, Rachel, Beauty, Louisa** and **Red Rose** tribes and these are as good as you ever looked at. **I am offering these at private treaty** and if you want something real choice it behooves you to come and see these at once. Address

R. O. MILLER, LUCAS, IOWA.

HORSES AND JACKS.

40 Shires and Percherons

A NEW importation, now at home in our barns, is not excelled by any lot that has or will cross the water this season. Size, quality and style that have won honors in the show rings of America and Europe

And We Make the Price to Suit You

We can do it because we bought them low; we pay no commissions; we have no expensive salesmen; we raise our own feed, and the running costs of our establishment are very low. We can sell a better horse for less money than any one on earth. Come and see; 17 miles from Des Moines; trains every hour on main line of Rock Island or Interurban.

R. WILKINSON & SONS, MITCHELLVILLE, IOWA

HEISEL'S PERCHERONS

GET in line, be the first to purchase one of those big, drafty, **Percheron** stallions that arrived in my new importation September 22d.

Sale barns in town, located 180 miles west of Peoria, Ill., 91 miles west of Burlington, 70 miles southeast of Des Moines, 290 miles south of Minneapolis, on M. & St. L. and C. B. & Q., R. R.

E. J. HEISEL - - - - FREMONT, MAHASKA CO., IOWA

PERCHERON, BELGIAN AND SHIRE

STALLIONS and mares of the highest order. Stallions weighing from 1,600 at 18 months up to mature horses at 2,200. We make a specialty of good type, action and soundness. We are natives of France,—we know where the good ones are to be had and we make our own selections. We save money in buying, we save buyers maney when we sell. Come and see our horses and be convinced We guarantee satisfaction. We are twenty-six miles west of Lincoln and sixty-eight east of Grand Island on the Burlington and seventy-five southwest of Omaha on the C. & N. W. Mention Homestead and write us. Address

JOS. ROUSSELLE & SON - - - - SEWARD, NEBRASKA.

CLYDESDALES

WE CAN SHOW MORE and better specimens of the sturdy Scotch Drafter than were ever offerd by any American importer and breeder. Our imported horses are the best that money and time could secure. Our American bred sorts will please the most critical. Our horses are winners wherever shown. We show our sale horses and sell our show horses. We will quote you prices on stallions and mares that will surprise you. Address

J. LEITCH & SONS - - - LAFAYETTE, ILLINOIS

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A STRICTLY high-class lot, 14½ to 16 hands high, with plenty of bone and quality. Everything guaranteed as represented. Priced right. I am going to make attractive prices for next 30 days. Address **J. C. HUCKSTEP, EOLIA, PIKE COUNTY, MISSOURI**

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OWING to ill health I am compelled to sell my small, but select herd of **Scotch** and **Scotch-topped Short-horns,** including my Scotch bull, **Challenge Mysie,** a well-bred Princess Royal; twenty cows and heifers, some with calves at foot or well along in calf. Among the Scotch are several of the Fleur-de-lis, Rosemary and Lady Fragrant tribes. Am offering twenty cows at $100 each and calves at what they are worth. This is the greatest bargain in Short-horns that has ever been made, but I must close them out at once. Address

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I AM offering **15 head of the best young bulls ever seen on one farm. Twelve of these are straight Scotch,** of the **Orange Blossom, Princess Royal, Dainty Dame, Miss Ramsden, Lancaster Rosebud, Lady Fragrant** and **Lady of the Boyne** tribes. Among these is the great 2-year-old bull, **Scottish Rex,** a Campbell Rosebud, and one of the best herd bull propositions offered in the country today. Write or come and see me at once. Address

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THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead,

GEORGE D. HARRAH, NEWTON, IOWA

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I AM offering four choice young Scotch bulls for sale sired by the undefeated champion **Ringmaster, Victor Sultan, Diamond Goods** and **Morning Joy.** One of these is a Lavender, an Orange Blossom and a Marr-bred Clara. Write me or come and see them. Address

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15 Short-horn Bulls for Sale.
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WANTED--SHORT-HORN HEIFERS. Yearlings and two year olds. Give price, breeding and full particulars in first letter. Address Short-horn Breeder, care Homestead Co., Des Moines, Iowa.

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Are now in their barns and ready for the inspection of purchasers. We have a great collection of 2 and 3-year-old imported stallions and mares and a large number of American-bred stallions and mares ranging in age from weanlings to six-year-olds. The mares are all bred to imported stallions. Our prices are reasonable. Write us before you buy.

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CAREFULLY selected stallions and mares of the above breeds from the very best studs of Europe are now for sale. They are the big boned, rugged kind that are money-makers. All clean and sound and priced well worth the money. If you appreciate the good ones at moderate prices write us. Mention Homestead and address

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HERD headed by **Joe 7742** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** A few bred sows for sale. Bred sow sale February 4, 1914. Address
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HAVE nothing for sale at present. My herd is headed by Messenger Boy 6179, the undefeated grand Champion of 1912.
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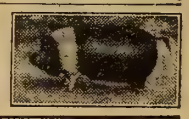

A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price you can afford, write me. I can supply you. Mention Homestead.
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WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
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BOARS and yearling sows all sold. We have a limited number of choice March and April gilts for sale, either open or bred to Corrector for April litters. **Geo. T. Pearce & Son, Bloomfield, Ia.**

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THE sensational winning herd of the year. Won 42 prizes at the three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention the Homestead. Roy E. Fisher, Winside, Neb.

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VALLEY VIEW Hampshires, either sex. Satisfied customers. Spring boars ready for service, 12-yr-old boar, sale or trade. Fred Wheeler, St. Charles, Ia.

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SIX good, heavy-boned, well-belted **Hampshire boars,** weighing 175 to 200 lbs. ea., at $20 to $25. One yearling boar $50. Edw. Dooley, Selma, Iowa.

40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when writing. **F. O. Peterson, Galva, Ia.**

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I AM offering 30 spring pigs sired by **Lad for me** and **Compeer of Walnut.** Write me your wants and mention Iowa Homestead. Address
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A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
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HAMPSHIRES all ages for sale, the heavy boned, cholera immune kind, all bred from prize-winning boars at Iowa State Fairs. Address
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40 FALL BOARS, 40 fall sows. A great crop of spring pigs of both sexes by Chief Select, Hiawatha and Pathfinder. I think these are as good as anything I have ever raised and some carry remarkable show yard quality. Write for prices or come and see them.
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FOR SALE 40 spring boars sired by the following boars: Iowa Pride, Royal Banner, Barr & Rae's Pathfinder and Pathfinder 2d. Will also sell Iowa Pride sired by Frank, the grand champion boar 1913 at Iowa State Fair. Prices reasonable. Address
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CHESTER WHITE BOARS FOR SALE

I HAVE a choice bunch of early spring boars that will suit the most exacting buyer. I will make close prices on them for the next thirty days to close them out. Satisfaction guaranteed. Address
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SPECIAL CLEARANCE SALE

TO close out my stock of Chester White boars I will sell $50 fall at $35; $35 winter at $25; April $25 at $17.50. A few choice spring gilts at $27.50. Address
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MARSHALL SWAYNE, Marion, Iowa, has a few good Chester Whites for sale. Both sexes. Descendants of the well-known herd of V. H. Lathrop

CHESTER WHITE BOARS—Reduced price to $18 and $20. Satisfaction guaranteed. Recorded free. Address E. J. Trumbaur, St. Charles, Iowa.

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STILL have a few choice fall yearling boars; also some spring and early summer boars. An extra choice lot of bred sows and gilts. Daughters of U. S. and Fairmont Chief bred to two of the best herd boars I could possibly find. Also some fall pigs, either sex for sale. Everything that I ship is first class. You will do well to write immediately.
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Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
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FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address
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FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vanderslice Bros., Cheney, Nebraska

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I HAVE twenty 200 lb. spring boars that absolutely must have a new home. They are by prize-winning sires and from an excellent bunch of sows. Write me if you wish a bargain. I will give you one.
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CROSIER'S O. I. C. HOGS

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - - JUNIATA, NEB.

O. I. C. HERD BOAR for sale—Silver Star, 2 years old, sire Mahaska Boy 20897, dam Sunshine 2d 46064. Also some good, lengthy, strong-boned May boars. Write John Schafers, R. 3, Dubuque, Iowa.

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Kent's Famous Iowa Herd CHESTER WHITES

WON nearly 400 ribbons in 1912 and 1913. Undefeated this year on aged herd owned by me, and aged herd bred by me, and aged sow class winning first champion and grand champion everywhere shown. Undefeated on get of sire also, except once. With over 400 head to select from of the above breeding I am prepared to fill your orders for anything you want from a state fair prize-winning aged boar down to pigs at weaning time at prices made to sell. It will pay you to write me for prices and the way I will ship those hogs before paying for them, or come and see them. Mention The Homestead.
THOS F. KENT, R. 2, WALNUT, IOWA.

TAKE NOTICE! 35 CHESTER WHITE GILTS FOR SALE

BRED to farrow in March. Bred to such hogs as Lewis E., Col. Evans, Nagle's Kind and Right You Are. Do not fail to place an order for from one to five of these bred sows. Also 35 fall pigs for sale. Buy a trio of these pigs. No akin. Address, mentioning The Iowa Homestead,
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AS I can use him no longer I offer for sale White Cloud 20465, one of my great herd boars that has a 10-in. bone and will feed out to 1,000 lbs. He is good all over, a true breeder and easily handled. Also spring, summer and fall boars and gilts of good breeding and fine individuality. Some brood sows and gilts.
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SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by High Style, International King, International Boy, Combination III, Village Boy and Combination's Favorite.
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Please paste this in your hat. Anything in the boar line sent on approval. Address
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Reese's Prize Winning Chester Whites

I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - PRESCOTT, IOWA.

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GOOD ONES. March and April pigs sired by **Good Goods 21422** and **White Wonder 22581. Bargain Prices** for 30 days. Shire stallion and mares for sale of the best breeding. Aberdeen Angus cattle, either sex, for sale.
T. A. STEVENSON - - SHANNON CITY, IOWA

W. A. Hoover's Prize-Winning Chester Whites

I HAVE 12 fall yearling boars and 9 fall yearling sows sired by Wonder (1st, Iowa State Fair, 1911) and spring boars and gilts by Grand Duke, Controller and Billy A. I have the goods and can please you if you want a good one at a reasonable price. Free livery to farm from Lambert's barn. Address, mentioning The Homestead,
WM. A. HOOVER, OSKALOOSA, IOWA

C. C. EVANS

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I HAVE a fine lot of March and April boars and gilts sired by Combination II, that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

I SHIP C. O. D.

CHOICE big-type Chester Whites, either sex, pairs no akin, farmers' prices, crating and pedigree free.
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SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
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FOR SALE, weighing from 200 to 250 pounds just in stock condition. Sired by Michigan Chief, an 800-lb. boar; extra good bone. Price $30 if taken soon.
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16 BEST boars I ever raised. March and April farrow. Cholera immuned. Prices reasonable. Also a few choice gilts for sale. Write me at once.
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SPRING boars, big, deep, smooth, well finished, with strong bone. Bred right. Perfect health. Bargains to those who buy quick. Address
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I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
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GREAT big spring boars, weight 225 and up. Your choice while they last at $22.50 each. Order from ad. and save time. Address
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CHESTER WHITE SPECIALS. Some extra choice boars, well bred, well grown at $22.50 to $50.00. Two excellent fall boars at this price. Address Harry J. Anderson, Beaver Crossing, Neb.

LENGTHY, rangy good boned Chester White pigs, either sex, weight 125 to 200 lbs., at $20.00 to $25.00 each. Guaranteed as represented. Will Michael, Selma, Ia.

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CHESTER WHITE GILTS April farrow, weight 125 to 200 pounds. 30-day sale at $20 to $25. Address Bert A. Randell, Mt. Zion, Iowa.

O. I. C. SPRING BOARS AND GILTS Fall pigs, both sexes.
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DUROC JERSEY SWINE.

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I HAVE 12 head of cracking good fall boars for sale and 40 spring boars, sired by Freed's Improver, Louis Crimson Wonder and a son of Crimson Wonder 3d. No better breeding can be found and I am pricing them right. Mention Iowa Homestead when writing. Address
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I AM offering eight cracking good fall boars sired by **Col.'s King, Royal Col., Gold Col., D.'s Crimson Wonder I Am** and **D.'s Crimson Critic.** I can fit you out with a good boar to head your herd at a reasonable price. Write me and mention The Iowa Homestead. Address
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A NICE lot of spring boars, sired by Sensation Again, Ohio Belle's Crimson, and a son of Lincoln Wonder. They are out of extra choice sows. These boars go at $25 and $30 if ordered this month. Can ship on five railroads. A few sows bred to the great Royal Wonder. Nothing better. Address
D. S. COCHRAN R. F. D. 7. LINCOLN, NEBRASKA.

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I AM offering 7 cracking good fall boars sired by **Defender 2d 111959,** and 23 extra choice spring boars sired by Defender 2d, A.'s Col., Edgewood K and Gold Prince, out of daughters of Golden Model 17th, C. & E.'s Prince of Cols., Ohio Chief and other popular strains. Prices, $30 to $40 if ordered soon.
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NEAR fifty boars for sale. Mostly spring boars, but few of fall farrow. They are sired by the $800 B. & G.'s Wonder, also the $600 Chief Select 2d, the great and only Blue Ribbon Model, and a few other noted sires. They are from one of the greatest herds of sows in the country. These grand young boars for sale right. Mention The Homestead and address
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THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you If you come to the farm. Address
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I HAVE 9 fall boars and 20 spring boars sired by Golden Model Jr. and Crimson Wonder Am I. Many of these are out of my best Crimson Wonder I Am sows. Write me about these at once. Address
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SOME extra choice boars sired by Model Advancer, Golden Model IV., Beauty's Model Top and a few others. These are out of one of the greatest herds of sows in the state. Mention Homestead and address
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WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
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The Iowa Auctioneer
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Good Duroc Boars

I HAVE some big smooth spring boars sired by Golden Model II., Crimson Ohio Chief, Crimson Chief II. and Ohio Chief Wonder out of sows with championship blood. Write for prices, mentioning The Homestead. Address
M. S. PRATT - - - FREDERIKA, IOWA

S. E. EAKLE & SONS,

PROPHETSTOWN, WHITESIDE CO., ILL.
HAVE boars sired by S. E.'s Premier Col., Disturber, Captain Model, out of such sows as Lucy Wonder 112, Proud Lucy, and sows by Model Chief, Defender, Chief Select, Golden Model, Ohio Chief, Chief's Col and others. Eleven boars by Disturber, 4 half bros. to Disturber, 18 out of Model Chief sows. Show litter out of Cherry Chief. Size, quality and best breeding our motto. Prices $35 and up. Address as above, mentioning Homestead.

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfeld's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

FRANK'S DUROC JERSEYS

IMMUNE BOARS

MY herd have been given the double treatment and are absolutely free from disease and proof against cholera. Spring boars for sale. Breeding the best in the land. Quality right and prices to suit.
SOL FRANK - SIOUX CITY, IOWA.

CLOSING OUT DUROC BOARS

A FEW very choice Duroc boars of spring farrow for sale at right prices. Best of breeding, and only our best saved for breeding. Address
F. E. MERRICK, OSCEOLA, NEBRASKA.

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - Rose Hill, Iowa

DUROC JERSEY BOARS

IMMUNE FOR LIFE. I am offering 10 choice spring boars by Volunteer 2d, 1 choice fall boar by Chief's Col. Again for sale. These are all good ones; priced reasonable; come and see these if you can or write at once. **Wm. Bauer, Audubon, Ia.**

IMMUNE DUROC JERSEY BOARS FOR SALE

FEBRUARY and March farrow. Sires, Frankfort K., Gano, and Edgewood Special. Prices $25.00 to $35.00. Address, mentioning The Homestead.
J. T. DENNEY - - - GRIMES, IOWA

BIG DUROCS

by J. E.'s Model King by King The Col.
Write for prices at once.
J. E. HENSLEY - CENTRAL CITY, NEB.

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

DUROC JERSEY SWINE.

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

Sunnyside Duroc Jersey Boars $25 to $40

IMMUNE boars of spring farrow, safe to go into any herd. I have 35 of them that are big, husky, strong boned fellows, and from the most popular lines of breeding. First orders get first choice.
M. A. M'WILLIAMS - - - - R. F. D. 1, WALL LAKE, IOWA

TWO GREAT HERD BOARS BY CRIMSON WONDER AGAIN

ONE of them the 1st under-year boar Nebraska State Fair. He headed the herd of Durocs that won six firsts. The other is a son of H. A.'s Queen. Also farmers' big-boned boars at farmers' prices. Address
H. S. ALLEN - - - RUSSELL, IOWA

DUROC JERSEY BOARS AND GILTS

I HAVE a choice lot of large, heavy-boned boars and gilts sired by Audubon Col. (by C. & E.'s Prince of Cols.) and out of sows by Crimson I Am, Long Chief D., Attraction and R. H.'s Prince. I will breed gilts to Lucy Wonder's Col. (a half-brother to the grand champion boar Disturber). Come and see me, or write mentioning The Homestead.
CHAS. W. NOBIS, HANOVER, ILLINOIS

60 EXTRA CHOICE CHOLERA IMMUNE DUROC JERSEY BOARS

I AM offering 10 splendid fall boars sired by my great herd boar, **Fain's Select,** and fifty unusually choice boars sired by Fain's Select, Golden Model 2d, Chief's Model and Big Chief. Everything in herd vaccinated. Will guarantee everything to live 30 days or will refund one-half of purchase price. Ready to ship at any time.
H. S. FAIN EMMETSBURG, IA.

JACOBSON'S DUROC JERSEY BOARS

SOME very choice spring boars, sired by Tony B. the state fair winner, Queen's Wonder by C. W. Again and Wonder Improved and a few others. Also a few choice fall boars. Will name farmers' prices to move this stock. Mention The Homestead and address
J. A. JACOBSEN - - - - - - MARQUETTE, NEBRASKA.

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - STORY CITY, IOWA

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

DUROC JERSEY BOARS

I HAVE a fine lot of spring boars sired by Royal Col., Victor Col., Golden Prince, Crimson I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of prospects for herd boars. Write me mentioning The Homestead. Address
J. E. SMITH - - - - VICTOR, IOWA

Double Champion Blood Duroc Jerseys

SPRING pigs by Freed's Col. (grand champion) and Wonderful Crimson Again (son and grandson of a grand champion). They are out of sows by Freed's Col. and Manley Orion (five times an Iowa State Fair winner). Good, healthy, thrifty pigs, from mature dams, at reasonable prices.
S. P. FREED - - AMES, IOWA

DUROC JERSEY GILTS

I HAVE a fine lot of big, growthy spring gilts sired by Joe's Col. (by Proud Col. dam by Model Wonder), and Wonder's Model that I will sell open or bred. They are being bred to Joe's, Col., a son of Golden Model II. and a son of Wonder's Model. Write for prices, mentioning The Homestead, to
JOHN KREBS - RIVERSIDE, IOWA.

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - WOODWARD, IA.

Snethen's Durocs

STRICTLY choice boars got by Belle's Choice Goods, Golden Model 51st and Crimson Wonder 31st are priced right.
J. S. SNETHEN - DAVIS CITY, IOWA.

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

Special Prices on Durocs

Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

"QUALITY" in Duroc boars and gilts by Col. Kruger, Defender's Likeness, Model Chief I Am and Prince A.'s Col., first prize senior pig Int. 1912. Price $25 to $35. A. Nevins & Son, Modesto, Illinois

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - ALEDO, ILLINOIS

50 Immune 50

DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

DUROC JERSEY PIGS

I HAVE a fine lot of September and October pigs of both sexes that I will sell reasonable. They are of the best breeding and well grown. Don't forget my bred sow sale February 2, 1914. Address
HUGH M. FICKE, LONG GROVE, IA.

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Superba Jr. 37218 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - RYAN, IOWA

15 HEAD IMMUNE DUROC JERSEY BOARS

I AM offering 15 good boars. All **vaccinated and immune.** Sired by I Am Muncie. These are good boars. Price $25 and $35. Send your order at once. Address **J. F. Kerns, Holstein, Iowa.**

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

25 DUROC JERSEY BOARS 25
25 DUROC JERSEY GILTS 25

LARGE, growthy, heavy bone. Everything guaranteed as represented. Best breeding, $20 to $30. Correspondence solicited. Address
W. J. HARTUNG - MAXWELL, IOWA

DUROC JERSEY BOARS

IMMUNED BY GOVERNMENT EXPERT

SPRING pigs, 200 pounds and over, by Jumbo Wonder (son of Crimson Wonder Again) and out of big, well-bred dams. Write me. Address
GEORGE T. WHITE, Dallas Center, Iowa.

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcolm, Nebraska.

DUROCS

March pigs for sale. Long, heavy-boned boars and gilts of good strains. Jos. Shradel, Riverside, Iowa

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

POLAND CHINA SWINE.

FESENMEYER'S BIG-TYPE POLAND CHINA BOARS

I AM now offering **75 head of fall boar pigs** sired by the world-renowned **A Wonder** and **Big Joe.** These are out of my very best **Giantess, Long King, A Wonder** and **Big Joe** sows. You can buy one of these fall pigs now and you will save from one-half to two-thirds what you will have to pay for a boar next season. Buy these now and save your money. Address

HENRY FESENMEYER - - - - CLARINDA, IOWA

COOPER'S BIG-TYPE POLAND CHINAS----Guaranteed Cholera Immune

BRED GILTS AT FORTY DOLLARS EACH

WE are going to sell a limited number of March and April gilts bred for March, April or May farrow at this price. They are sired by and bred to **Big Bone 2d, the 1,000 pound son of Big Bone; Chief Leader, a 700 pound yearling; Big Expansion, the 900 pound son of Dorr's Expansion; Giant Look** and other boars of big-type blood lines. **The dams are sows weighing from 500 pound yearlings up to sows of over 800 pounds. LISTEN!** if you want some of these gilts send your check, do not ask us to measure them or give you a detailed description. We do not have time to answer so many inquiries. All are good marked—no defects. **If they do not suit send them back and we will return your money. We will refund your money if they die from Cholera, or replace with one of equal value.** Send your order at once if you want them, as they will not last long at this price. Address, mentioning The Iowa Homestead, **W. H. COOPER, HEDRICK, IOWA.**

ABERDEEN ANGUS CATTLE.

ABERDEEN ANGUS

COWS AND HEIFERS FOR SALE

WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.

ESCHER & RYAN, IRWIN, IOWA. **ESCHER & SON, BOTNA, IOWA**

ABERDEEN ANGUS Bulls and Females

TWENTY bulls, from ten to eighteen months old, sired by Scottish Hero 52494, Prince of Prides 129738, Kazlmura 2d 134656 and Elever 131652. Special prices on young bulls, cows and heifers. Over 200 head in herd. Two Percheron stallions for sale, one two years old and one three years old. Write me, mentioning The Homestead, John E. Griffith, Washington, Iowa.

20 Aberdeen Angus Bulls

I am offering **20 choice serviceable bulls,** of the very best families, sired by my noted Blackbird bull, **Blackbird Barney** and **Elfin of Homedale.** Want to move these and will price them right. Write me at once or come and see them. Address

CHAS. M. RUSSELL - - - - - - CARROLL, IOWA

CEDMER ANGUS

I HAVE on hand 8 bull calves, gilt edge in quality and breeding, all eligible to record. Also a few yearling heifers for sale. Address

A. G. MESSER, GRUNDY CENTER, IOWA

ABERDEEN ANGUS BULLS

FIVE bulls about a year old for sale at reasonable prices. We invite inspection on Springdale Stock Farm adjoining this city.

W. B. SEELEY - MT. PLEASANT, IOWA

HEREFORD CATTLE.

HEREFORD CATTLE

20 BULLS 20 20 FEMALES 20

BEAU Blanchard by Beau Mischief, dam Blanche 23d by Beau Brummel, the sire of our show herd-heads herd. Bulls by him and females bred to him all bred along Anxiety lines. If you want herd, header material, strong stock bulls or choice heifers we can fit you out. Write, or better still, come see them.

JESSE ENGLE & SONS, SHERIDAN, MISSOUI

50 Registered Hereford Bulls

I HAVE fifty bulls from eight to twenty months old, some of which are good enough for herd leaders and at prices that will suit buyers who want to get the worth of their money. Address

GEO. D. HARRAH - - - - NEWTON, IOWA

25 Registered Hereford Bulls

VERY rugged and sappy, by good sires, with good bone, heads, backs and hind ends, will be priced very reasonable. Address, mentioning The Iowa Homestead,

A. SPOONER & SONS - - - - - - MONDAMIN, IOWA

THOMPSON'S HEREFORDS

SOME extra choice bulls by Emancipator 11th. This is also the home of the $2,500 Duke Real 388816. If interested in the good ones, write us, mentioning Homestead.

THOMPSON BROS., WEST POINT, NEB.

Landers' Herefords

YEARLING BULLS and a number of yearling heifers are priced right. Gay Lad 14th by the champion, Gay Lad 6th, heads herd. Write or come and see them. **Warren Landers, Savannah, Mo.**

SHORT-HORN CATTLE.

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods,** and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address

HOWELL REES & SONS, - - PILGER, NEB.

BARGAINS IN SHORT-HORN CATTLE

TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, singly or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

Short-horn Bulls

VILLAGE PARK HERD is offering some very richly-bred, attractive young bulls sired by the Cruickshank Dorothy bull, Good Knight, belonging to popular Scotch tribes, with quality and finish, and good enough to go anywhere. If you are in the market for a good bull write today for bull catalog and particulars. Mention The Homestead.

J. F. PRATHER, WILLIAMSVILLE, ILL.

Big, Sappy SHORT-HORNS

I HAVE for sale a few extra choice yearling Short-horn bulls. They are well bred and well grown. Just right for use and and am pricing them at $100 each. They are really the $150 to $200 kind. Write or come and see them. Orville O. Jones, York, Neb.

5 SHORT-HORN BULLS

TWO Scotch yearlings, one a Marr Flora, the other a Barmpton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.

M. W. MYERS - - BEAMAN, IOWA.

Scotch Short-horns

A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best Write us your wants, mentioning The Homestead

F. H. EHLERS - - TAMA, IOWA

WILDWOOD BULLS

FIVE red Short-horn bulls ready for service for sale. Wildwood Sultan, Des Moines prize winner, among them. Come and see us or write for further particulars. Address

W. W. VAUGHN & SON, MARION, IOWA

Short-Horn Bulls

FOR SALE. Reds and roans sired by Mr. Robin 338773, a richly bred Marr Missie. Address for prices, mentioning The Homestead,

I. H. Whitman - - - - - Lisbon, Iowa

Cedar Hill Short-horns

SOME extra good yearling bulls sired by the 2,200-lb. Secret Hero; also a pure Scotch herd bull. We keep a great line of heavy milking cows. Mention The Homestead and address

IRVIN E. WILSON, BELVIDERE, NEB.

SHORT-HORN BULLS

I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address

J. E. Barr, R. F. D. 4, Davenport, Iowa.

Big Orange, Big Sampson and Colossus Blood

TWENTY big husky March and April Poland China boars, sired by as big a hog as any man owns. My prices are very reasonable for such classy stuff. I have not had a pig die from disease for twelve years. I sold more fall boars at the Iowa State Fair and at a higher average than any other exhibitor. The boars now for sale are just as good. Address **A. J. BANKS, MONTOUR, TAMA COUNTY, IOWA.**

BERKSHIRE SWINE.

IOWANA FARMS BERKSHIRES

THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

IOWANA FARMS, DAVENPORT IOWA
J. L. Thatcher, Manager.

BERKSHIRES

Get New Blood into your stock from pedigreed Berks selected for years for health, breeding and marketing qualities. Fine selections all ages now. No imperfect stock sold breeders from this farm. Come or write for particulars.

MORGAN FARM, Beloit, Wis.

BERKSHIRES

BOARS in service are Longfellow's Premier by Premier Longfellow 68600, Baron Peabody 10th by Baron Duke 88th 91888. Forty fall and spring boars for sale. Mention Homestead and address

GEO. PORTER - STANTON, NEB

BERKSHIRE BOARS FOR SALE

I AM offering some good fall and spring boars at farmers' prices. Write me at once and mention Iowa Homestead. Address

JOHN C. MILLER - HARLAN, IA.

25 BERKSHIRE BOARS 25

EVERYTHING immune. Boars will weigh from 150 to 275 pounds. Sired by Sunrise, Value A and Fenton Rival. Extra good boars from $25 to $35.

A. A. KADING - - - FENTON, IOWA

BERKSHIRES—We can supply your wants in choice boars and sows of April farrow. Pairs and trios not akin, representing as good a line of breeding as you will find. Will please you or no sale. Orlando Jacobs & Son, R. 4, New London, Iowa.

BERKSHIRE BOARS FOR SALE. Some fine spring boars, nicely bred and good individuals. Cholera immunes. Write for prices. Fred Divelbess, Logan, Iowa.

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

YOUNG BULLS

RANGING in age from Sept. 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare on M. & St. L. or Barnum on I. C.

FRANK J. CLOUSS - BARNUM, IOWA

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

CEDAR LAWN RED POLLS

HERD headed by Red Prince 21779 and Forester 22308. Some excellent young bulls for sale. Address M. H. Christiansen & Son, Plainview, Neb.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

GALLOWAY CATTLE.

MAPLE GLEN GALLOWAYS

STRONG in blood of McDougall 4th of Tarbreoch. Bulls, cows and heifers for sale. Write, or come and see our cattle. On main line Santa Fe R. R

JAMES P. MILLIKEN - Media, Illinois.

IF you want the best Galloway cattle--Oxford Down sheep, see the Maple Grove Stock Farm, where the prize winners are bred; undefeated get of sire for three years in succession. 21 bulls for sale. Address **C. S. Hechtner, Charlton, Iowa.**

Big-Type Poland Chinas On Approval

TEN extra, immuned cholera-proof boars with length and quality. Also three registered Short-horn bulls at one-half price. Address

R. J. BRONNER
R. 5, BOX 36 - - CRESCO, IOWA.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.

O. J. SATRE - - - JEWELL, IOWA.

WAYSIDE POLAND CHINAS---Choice big-type fall yearling and spring boars and forty sows and gilts bred for March and April farrow. Address **E. J. Augspurger, Pulaski, Iowa**

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

BIG POLAND CHINA BOARS
FALL yearlings and spring boars. Cholera immunes. Sired by Hum Dinger, a state fair winner. **H. U. Arthur & Sons, Spirit Lake, Ia.**

MULE-FOOTED SWINE.

RIVERSIDE FARM MULE-FOOT HOGS
WE breed from best stock obtainable. Big Chief heads herd. Excellent young stock for sale We are pioneer breeders of Nebraska. Write today

J. W. COX & SON - ARAPAHOE, NEB

MULE-FOOT HOGS

MORE premiums won in 1912 and 1913 than any herd in the U. S. Stock of all kinds for sale.

Zene G. Hadley, Box A, Wilmington, Ohio.

Mule - Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale

Samuel Johns, Sec. A., Wilmington, Ohio,

BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

TAMWORTH SWINE.

MAPLE GROVE HERD OF TAMWORTH SWINE

SPRING boars, weight from 150 to 200 pounds, at $20 to $25. **F. J. McKeever, Ryan, Iowa.**

LOTT'S TAMWORTHS—Spring boars, weight from 125 to 175 at $20 to $30. P. M. Lott, Fairmont, Neb.

YORKSHIRE SWINE.

YORKSHIRES—The large, long-bodied, heavy-boned, prolific kind. Sows and gilts bred to farrow March and April. 60 head of Sept., Oct. and Nov. pigs, pairs, trios, not akin. Write for prices and descriptions. W. C. Cook, R. 42, Ada, Michigan.

DUROC JERSEY SWINE.

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Pride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Sittyton Duke the 6th for sale.

B. W. LITTLE, R. 7, JANESVILLE, WIS.

100 Immune Duroc Boars

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address

F. C. CROCKER - FILLEY, NEB.

For Sale TWO GOOD DUROC JERSEY HERD BOARS of extra good breeding (one a seventh prize winner at Iowa State Fair). Six good fall pigs at farmers' prices. Address

HOWARD R. MOORE - DEXTER, IOWA.

DUROC JERSEY BOARS from 150 to 200 lbs., at from $20 to $25 each. W. B. Meeks, Martelle, Iowa.

DUROC Jerseys—Big, growthy March boars, cholera immune. Pedigrees furnished, prices right. Satis. guar. A. H. Floyd & Son, R.1, Faribault, Minn

POLAND CHINA SWINE.

50 Head Hancher's Big-Type Immune Poland China Boars--50

I AM offering **fifty head** of as good boars as I have ever raised. These are all **immune** and are **ready to ship.** Sired by my 1,000-lb. boar, **Smooth Wonder 2d, Chief Price Jr.** and **Chief Again Price,** the Nebraska **State Fair Grand Champion boar.** These are out of my very best sows, viz **Long Molly, Model Wonder, Long Molly 2d, Price Model 3d,** and other 700 and 800-lb. sows. These will make outstanding good boars and I am pricing them at **$30 to $50.** Get busy and order one of these right away. Mention Iowa Homestead when writing me. Address

M. P. HANCHER - - - ROLFE, IOWA

Pfander's Sensational Big-type Poland China Boar Bargains

WE are offering **30 head of choice March and April boars,** sired by our sensational boar, **King of Wonders** (weight 675 lbs. at eighteen months) and **Big Ben,** the sire of the $375 and $325 spring boars in our August sale. Also some choice boars sired by **Big Jumbo 2d** and **Big Defender.** These are out of daughters of **Long King, Mammoth King** and our own noted **Giantess** sows that weigh 700 and 800 pounds. We want to sell these boars and we are pricing them at from **$30 to $50.** We guarantee satisfaction on these boars. Send us your order at once or come and see us. When writing us kindly mention The Iowa Homestead. Address

J. W. PFANDER & SONS - - - - - - - - - CLARINDA, IOWA

30 Immune Poland China Boars 30

I AM offering a splendid lot of spring boars for sale, sired by **B. B.'s Orphan,** a son of the 1060-lb. boar, **The Big Orphan 422816;** grandam A Wonder 107353. The dams of these boars are sired by **B. B. Wonder 181689,** a grandson of A Wonder 107353. These are April farrow, great big fellows and have length, frame, bone and quality. Price $30 and $35. Address

BEN BROUGHTON - - - - LAKE VIEW, IOWA

40 Strictly Big-Type Poland China Boars

OF March and April farrow. Sired by **Chief Again Price, Price's Giant** and **Ruebel's A Wonder,** three of the largest and best big-type boars in the state, and out of mature dams of like breeding. 15 bred by Peter Mouw. If you want **extreme size, bone** and **length** we can supply you. Our hogs are all **immunized with the simultaneous method and cholera proof.** Let live prices. Call or write for description and price. Farm 1 mile east of town. Mention The Iowa Homestead. Address

RUEBEL BROS. - - - - - - - - - - MARATHON, IOWA

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address

C. H. PORTER "Oakwood Farm Poland Chinas," EAGLE GROVE, IOWA

SCHUG'S IMMUNE POLAND CHINA BOARS

I HAVE 40 very choice boars for sale sired by the grand champion, **King Mastiff, Great Columbus, Nebraska Model** and **Farmer's Goliath.** Write me for prices on these boars and mention Iowa Homestead. Address

ROBT. A. SCHUG, COLERIDGE, NEB.

OAK PARK HERD BIG-TYPE POLAND CHINAS

30 APRIL boars and 30 gilts sired by Quality King (a grandson of Long King) and O. K. Price (by Chief Price Again). I have also a few fall pigs for sale at weaning time. My prices are low, and hogs will suit. In good health and vaccinated.

H. CRABTREE - - - - - - - - BAXTER, IOWA

35 IMMUNE POLAND CHINA BOARS 35

I AM offering 35 good spring boars sired by my great boar, **Blue Valley Chief,** and **Pawnee Defender.** Also three good fall boars. This is the last chance to buy Blue Valley Chief boars. These are all immune and are right in every way. Write me at once. Address

JOHN SCHMIEDER - - - - REMSEN, IOWA

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART - - - HARLAN, IOWA**

BIG-BONE HERD OF POLAND CHINAS

BOARS from this herd have matured into 1,000 pounds at less than 30 mos. Some of the best boars ever bred on the farm are now for sale. They will weigh around 200 and will be shipped immediately upon receipt of check for $20. The greatest bargains ever offered in my twenty years' breeding the big ones. Order from this advertisement today. Address

A. ROESLER, WILCOX, NEBRASKA

40 EXTRA CHOICE LARGE-TYPE POLAND CHINA BOARS 40

THESE are sired by the 1,000-lb. boar, **Farver's Goliath** and **E.'s Defender,** and are out of Expansion, Dorr's Tecumseh and Goliath sows. Corking good boars at reasonable prices is my motto. All hogs vaccinated and cholera immune. Write me at once for description and mention The Iowa Homestead.

E. E. FARVER - - - - - OCHEYEDAN, IOWA

POLAND CHINA BRED SOWS AND GILTS

ABSOLUTELY none bigger or better bred than the gilts that we are offering from our herd at this time. The gilts are all early farrow and are big, extra big and they are well bred. Sired by Old Reliable by Long King, Roseler's Giant by Long Chief and others. Bred to A Columbus and to King Cole by Big Orphan. Write us for the big ones.

WARP BROS., MINDEN, NEBRASKA.

JOHN C. NYRUP'S POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Pitz & Adams, Plattsmouth, Nebraska.

Big Poland Chinas

MY herd boar, Big Hadley Jr.; some boars, 30 gilts, are and will be bred to Big Price 2d, a two year old; he measures 6 ft. length, 6 ft. girth, 12¾ inch bone. Write **H. LENZ, LANSING, IOWA.**

FOR SALE

50 BIG TYPE Poland China boars with quality, sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., RR 2, box 176, Lawler, Iowa.

Fall Pigs of Giant Breeding

FALL pigs of the famous McCurdy's Giant strain of Poland Chinas for sale at $12.50 each. Sired by excellent boars and from good sows. Order at once and save delay. Address

WM. McCURDY - TOBIAS, NEBRASKA

GOOD LUCK HERD POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

HALF PRICE THIS MONTH

TOO many Poland China boars. Prices cut to get rid of them. 160 to 300 pounds. Sired by Orange Boy (1,000 pounds). Perfect health, $20 to $35. Will ship on approval. Satisfaction guaranteed.

M. G. Arnold & Son, Strawberry Point, Ia.

POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - - LISBON, IOWA

Poland China Bargains

EXTRA big Poland China spring boars, sired by boars of great size and feeding quality. My prices and description will convince you that I am offering great values. Address at once

A.B.Heckenlivly - - - Cozad, Nebraska

20 BIG-TYPE Poland China fall yearlings, passed through cholera last winter, $35 each; 15 choice spring boars $25 each; such noted sires as Chief Price, A Wonder, Long King, Big Orange, Big Ex., Sioux Chief, Big Jumbo, etc., have had a part in producing this stock. Send your order at once. Brood sow sale February 25th. Jno. H. Fitch, Lake City, Iowa.

30 CHOLERA IMMUNE BOARS 30

Sired by my great boar, PAWNEE PRICE,

one of the largest and best big-type Poland China boars in the state. Everything **VACCINATED AND IMMUNE.** Write me for prices and description at once. Mention The Homestead and address

W. E. ZIMMERMAN - - - NEOLA, IOWA

HALFORD'S BIG-TYPE POLAND CHINA BOARS

I AM offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great prize-winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of Long Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address

R. W. HALFORD - - - - - MANNING, IOWA

BIG-BONED POLAND CHINAS

50 GOOD, large, smooth, big-boned Poland China boar pigs, mostly by Big Wonder 180955, and out of sows by Jumbo 170495. Mention The Homestead and address

DAVENPORT & MACK - - - - BELMOND, IOWA

POLAND CHINAS AND SHORT-HORNS.

A FEW extra good spring boar pigs at very moderate prices sired by Jumbo the Great 170453 and Long Chief Jr. 179443. Herd immuned by simultaneous treatment and all healthy. Three yearling Shorthorn bulls sired by Pleasant Lawn Knight, an exceptionally good and large bull. All sows and gilts reserved for our sale of February 21, 1914.

ORVILLE O. JONES - - R. F. D. 1, YORK, NEBRASKA

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address

J. A. BEAUMASTER, ELMA, IOWA

25---IMMUNE POLAND CHINA BOARS---25

I AM offering 4 choice fall boars for sale, one of which is a high-class boar and was first prize boar at Crawford county fair. The other three are also good, stretchy boars. **Twenty choice spring boars** sired by **Golddust Wonder, Long Orange** and **Defender Again Price.** These are big-boned, stretchy fellows and $25 to $35 gets these. Everything **vaccinated and immune.** Write me at once and mention Iowa Homestead. **C. M. PEDERSON - - - - DUNLAP, IOWA**

20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1st at $15 each.

H. E. BURGUS - - Route 6 - - - OSCEOLA, IOWA

SPECIAL SALE ON POLAND CHINA BOARS

FOR the next few weeks I will make very attractive prices on twenty-five Poland China boars. These are mostly spring farrow, but a few are fall boars. They are mostly sired by Jumbo Wonder by A Wonder and are from a good line of extra big bred sows. I will save you some money. Address

FRANK G. HOAGLAND - - - - - GLENVILLE, NEBRASKA

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

MY Big-Type Poland China boars are sired by Cox's Wonder, by Rude's Giant, and out of a Long King sow and by A. Model, grand champion of Iowa, 1912, and others. I sell at farmers' prices. Write me.

B. F. MARMION - - FARMINGTON, IOWA.

Easy Feeding, Heavy-Boned, Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs. Choice at $25, and some less. Must sell as I am short on room. Excellent bred gilts at $30 to $35 per head, all sired by Ex.'s Wonder and Iowa's Product. Fall pigs at $12 and $15 at weaning time. Bred yearling sows at $35 to $40. Guaranteed safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - - - GRINNELL, IOWA

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices. Address

JOHN I. DRIPPS - SPRINGVILLE, IOWA

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.

Not the originator, but the preserver.

20 HEAD OF BIG-TYPE POLAND CHINA BOARS

OF the most fashionable breeding. Sired by King Wonder, Long King's Equal, Sterling Giant and Choice Look, out of 700 to 800 lb. sows, at farmers' prices. **J. M. SHEEHAN, STUART, IOWA.**

POLAND CHINA BOARS AND GILTS

FALL and spring farrow by Expansion Bob, Herod 2d and Big Jumbo. Out of large mature sows at farmers' prices. Write for description and prices, mentioning The Homestead, to

C. B. KNERR, STROMSBURG, NEBRASKA

POLAND CHINA BOARS FOR SALE

WE have thirty fall Poland China boars weighing 200 to 250 each at $25 to $30 each; and twenty-five spring boars at $15 each. From sires and dams that passed through the cholera two years ago. Have been a breeder of Polands for thirty years and certainly can please you. Address

J. O. Walton - - - Belle Plaine, Iowa

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - COON RAPIDS, IA.

Poland China Spring Boars

BY Again Chief Price 192035, 2d prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE, MAQUOKETA, IOWA

30 CHOICE BIG-TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D. 189573, a son of the great A Wonder 107353.

William Drummy - Ryan, Iowa

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones—growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

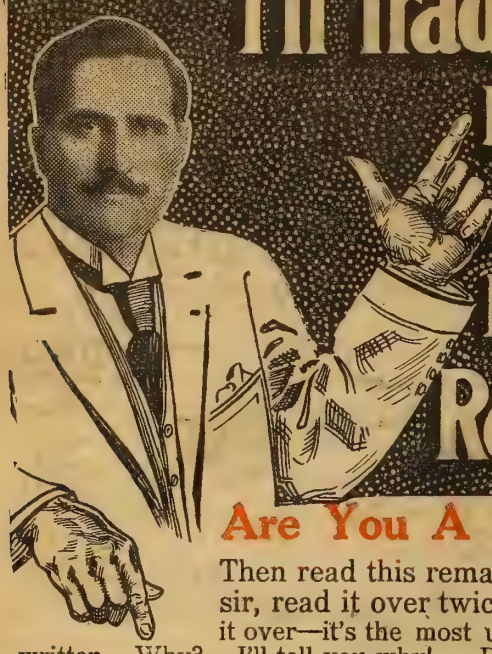
FALL PIGS by LONG GIANT

ALSO some by Big Bone and Baird's Choice and from an excellent line of sows that I will sell at $10 to $15 per head while they last. A grand opportunity to get the blood of the best and at small cost. **G. B. Van Kleek, Central City, Neb.**

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152096) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

I'll Trade You a Galloway Manure Spreader Any Time for 400 Bushels of Corn! Read This Letter.



Here's One Man's Experience With a Galloway

I own a six hundred acre tract of land and had it rented. The renter neglected to haul the manure out as it occupied a great deal of time in the old fashioned way of spreading with a fork. So in 1908 I decided to purchase the GALLOWAY SPREADER and put a man to work for one month. He hauled on an average of twenty loads per day. He hauled five hundred loads or more, about two-thirds more than the original way. I had even the old stack bottoms spread over the fields. We started on forty acres and manured twenty, that was in the fall of 1908. We put the forty in corn the next spring and **the twenty that got the manure yielded twenty bushels more per acre than the other twenty beside it on ground not manured.**

Both the renter and myself were well pleased with the results and the next spring, 1909, we decided to utilize all manure we could as it required so little time to use the GALLOWAY SPREADER as it takes about three minutes to distribute one load, and it takes thirty minutes or more the old fashioned way, then we get it more even and the manure went twice as far. I noticed in going over another farm, that I oversee where there is no spreader provided, the manure was in chunks, other places were barely getting little or no good of the fertilizing. **The hay on the meadow yielding one-third more where we used the spreader.**

And in the fall of 1909 we manured ten acres for corn and when gathering this fall **we gathered from one-third to one-half more corn to the acre than heretofore, enough or more than enough to pay for a GALLOWAY SPREADER.** The land beside the ten acres was just as good, but did not yield but one-third as much. We tried it again on meadow land with good results.

FRANCIS E. CROUCH, Blockton, Iowa

Are You A Land Owner? Are You A Renter?

Then read this remarkable letter from an up-to-date, progressive farmer. Yes, sir, read it over twice---three times---a dozen times. Read it over and then think it over—it's the most unusual—the most remarkable—testimony on manure spreaders ever written. Why? I'll tell you why! Because, here is the case of a large landowner furnishing his renter not only with a manure spreader but with a man to run it at his own expense in order to get the manure out on his land and keep it in good condition. Did you ever hear of a similar case? I never did. I've heard of landowners buying spreaders for their tenants, but never before hiring a man to do the work.

Did it pay? I should say it did! Ask Mr. Crouch or his tenant. Will it pay you? I can show you thousands of letters from my customers that prove a Galloway Manure Spreader to be the best machinery investment they ever made. Yes, sir, it will pay you and pay you big. You can't afford to be without one.

Let me tell you something. There are millions of acres of land in this country today starving for want of manure—land that would pay a profit with the aid of manure and a manure spreader. There are a million and more farms in this country today without a manure spreader running at a loss that would pay a profit if the owner or renter would invest in one. That's what it is—an investment—a big dividend producer for any farm.

Now, I am dead in earnest about the proposition I made you at the top of this page. I am dead in earnest on this manure spreader proposition. I believe the manure spreader is the most needed tool on the farm. **No farm can afford to be without one. Yes, sir, I'll trade you any style or make of Galloway Spreader you want any time for 400 Bushels of Corn.**

Will you do it? Never! Of course you won't because I'd be getting the long end of the deal. **I know it! But,** that's just what the Galloway Spreader did for Mr. Crouch; produced 20 bushels more corn to the acre on 20 acres on the same identical ground—than he raised on twenty acres where he didn't use the spreader. Paid for itself the first season. Didn't it? And then paid good big interest the next season on his hay land. It will pay you just as well. Mr. Crouch could better afforded to have traded me 400 bushels of corn for his spreader than to have done without it for, it made him that much and more the first year, — while he has the use of the machine for years to come. So can you or any other man afford to take me up on my one-sided offer, but I don't ask it. No, sir, I don't ask one-fourth that much. My prices are so low and my direct from factory terms so liberal that any man can afford a Galloway Spreader.

Now here's the point. It doesn't make any difference whether you are a landowner or renter, you can't afford to be without a manure spreader—not for another day. If you're a landowner it will pay you a bigger profit out of your land and raise its value. If you are a renter it will help you pay the rent and make a bigger profit besides. The manure spreader means the same thing to either landowner or renter. **Bigger profits at the end of the year.**

That's not only my word for it—but, the word of thousands of business men farmers. A lot of them at first didn't believe their Galloway Spreaders would make them the profit I said they would—that today wouldn't sell their spreaders for many times what they cost if they couldn't get another one.

Borrow the money at the bank if you have to and buy one—or better still write me for my liberal time payment terms and let the spreader pay for itself. It will do it. Now, just note my new low prices on Galloway spreaders. Get my new catalog giving all the facts. Just fill in coupon below. Do it now.

WRITE ME TODAY FOR MY NEW CATALOG DO IT NOW!

My Direct From Factory Prices Save You $25 to $45

$39.50 CASH WITH ORDER PRICE

Buys My No. 0 Wagon Box Spreader--- The Lowest Price Ever Made On An Attachment Spreader

My No. 0A Complete 50 Bus. Spreader Only .... The Lowest Price Ever Made On A Complete Manure Spreader **$64.75** CASH WITH ORDER PRICE

My spreader prices are slashed clear to the bone. You have never before in history had an opportunity to purchase a strictly standard, high quality spreader at such a never-before-heard-of price. Yes, sir, right at the start I will save you from $25 to $45 on the manure spreader you buy of me. Isn't this money worth saving? It certainly is and I know every business man farmer is going to take advantage of these new low prices. Investigate! That's what I want you to do. The more you investigate my prices, my spreaders and my direct from factory, one-profit-plan of selling the better I like it. It means in the end just one thing sure—a new customer and a new friend of the Galloway Way. Remember, my new low, unequalled prices are made possible by my dealing right direct with you—cutting out all middlemen's profits, all salesmen's expenses and dealers' bad debts. When you buy of me direct from the big Galloway Chain of Factories you have only one small manufacturer's profit to pay in addition to the actual cost of materials and labor that enter into the construction of my machines. Then back of every spreader I sell goes a strictly 5 year guarantee on materials backed by a $25,000 legal bond. With the most liberal free trial offer ever made. My spreaders must please you absolutely after a thorough test on your own farm or you can return them and I will refund your money and pay all the freight. Can you beat this offer? Never! Try the Galloway first, before you think of buying any other style or make of spreader.

Nine Different Styles and Sizes to Select From

You will find just the size and style spreader you want for your farm in the complete Galloway line at a price that will tickle your pocketbook. My attachment or wagon-box spreaders are the only successful wagon-box spreaders made, for their patented adjustable features are necessary. No other make or cheap imitations have these features. Remember the Galloway is the first and original wagon-box spreader. More of them in use today than all other makes combined. They will fit any style of farm wagon gear or truck. Four styles and sizes to select from.

My Complete Spreaders are unequalled—Trucks are detachable and can be used for other purposes. Three styles and sizes to select from. My big Jumbo, 80-bushel capacity spreader is a giant among spreaders and sells for only $93.50 f. o. b. Waterloo. My low-down, semi-underslung spreader is the last word in manure spreader construction. Light draft, two horses will handle it easily, large capacity, equipped with the proven Galloway features of mechanical construction—in a class by itself. Get my new catalog showing all my different styles and sizes. Do it now.

Trucks Detachable. Saves You $35 to $50

Don't forget this great fact. When you buy a Galloway Complete Spreader—My Famous No. 5, 60 and 70 bushel capacity machine for instance, you get a regular standard, wide track farm truck that you can use for other purposes. It is equipped with patented adjustable bolster stakes so it will take a regular wagon box, hay or hog rack or you can use it for hauling logs, etc. My spreader trucks are the best and strongest farm truck on the market. Made almost entirely of steel with flexible front trucks—cut under type. You can't buy their equal at a dealer's for less than $45 to $50. You save that much by buying your complete spreader of me, for I save you the price of an extra farm truck. These spreader-trucks are guaranteed to carry 6,000 pounds. Both my spreaders and trucks are sold under the strong Galloway Guarantee of your money back if not satisfied. Try them 30 days on your own farm, entirely at my risk with the money in your own pocket. Get my new special **30-day Free Trial Offer.** The most liberal offer ever made. Write me today for my catalog and full details of my offer.

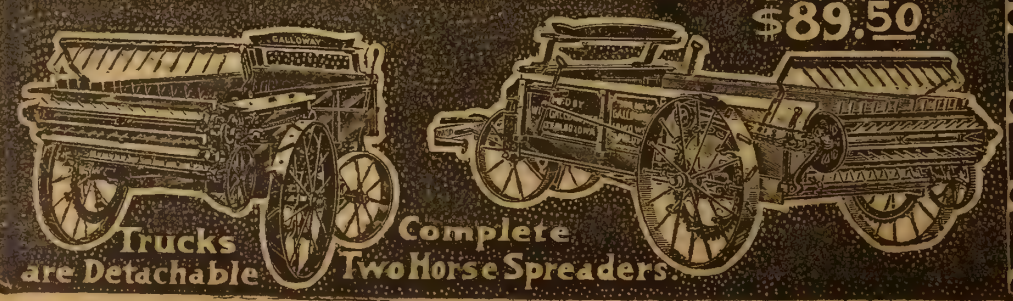
Get My Special Offer

Then as a final clincher I have a new, special, cooperative, profit-sharing offer to make you that simply can't be beat. It will help you get your spreader partly or entirely without cost to you in the end. No canvassing or soliciting. Just the simplest business proposition you ever heard of. Write me today for my new spreader catalog and I will give you full particulars of my offer and send you also **Free** my valuable book of information "A Streak of Gold" which is worth the price of a manure spreader to you any time if you follow its common-sense suggestions on the proper use and care of manure. It's brim full of valuable information on this important subject. Send for my catalogs. Do it before you lay this paper down. **Just fill in, tear off, and mail free** catalog coupon or write me a postal. Address

Wm. Galloway, Pres., WILLIAM GALLOWAY COMPANY, 19 GALLOWAY STA. WATERLOO - - IOWA

My Famous Spreaders
No. 1A 50-60 Bus. $76.50
No. 5 60-70 Bus. $79.50

My New Low-Down Semi-Underslung 60-70 Bu. Spreader $89.50



Mail This FREE Coupon NOW!

Wm. Galloway, Pres., WILLIAM GALLOWAY CO.,
19 Galloway Station, Waterloo, Iowa

Please send me FREE your new price-slashing offers on manure spreaders and your valuable book of information, "A Streak of Gold."

(If you want any of my other catalogs just put check mark (x) in square below.)

☐ Gasoline Engine Catalog. ☐ Cream Separator Catalog.
☐ Pumping Engine Catalog. ☐ Gen'l Merchandise Catalog, Clothing, Furniture, Machinery, etc.

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State ..... County .....

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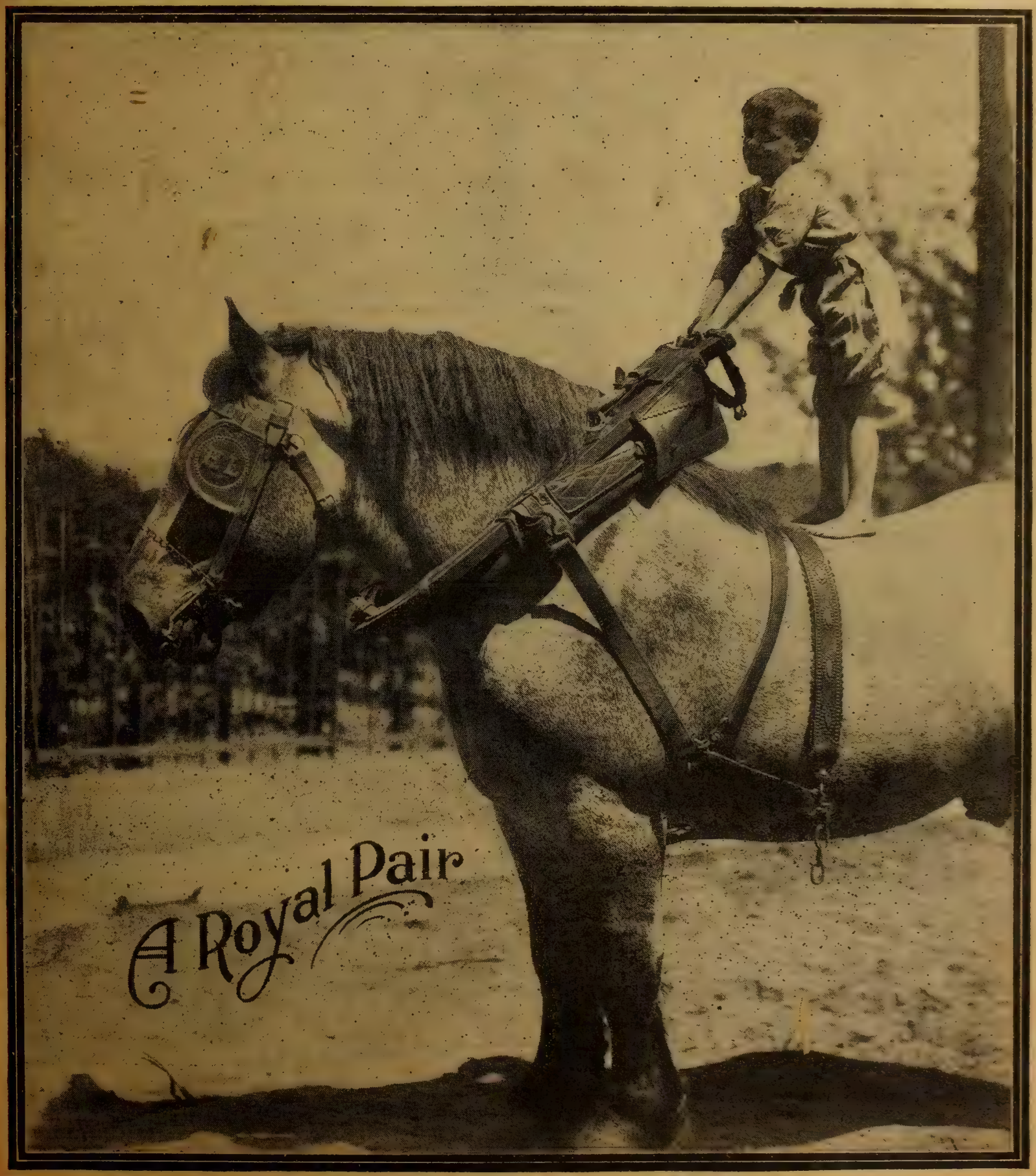


Here is the "Biggest" Automobile in the World

Maxwell 25/4 $750

Extravagant Assertion?---Let's Analyze It

Who Was the "biggest" general in the world? Napoleon, he conquered Europe—and he was five-feet-three!

Who Was the "biggest" statesman in the world? Bismarck, he built the German Empire—and he was six-feet-four!

So You See Mere Size Doesn't determine who nor what is biggest. It is achievement that confers that title "biggest."

We Maintain that the biggest automobile in the world is the one that does the biggest things—and does bigger things than a bigger car can do at the same cost.

And That Confers the Title on the Maxwell "25," which sells for $750, and which, though of ample capacity for carrying five full grown adults anywhere any car will go, yet weighs only 1,650 pounds.

This Car Cannot Be Called either small or large—in inches. It is neither a Napoleon nor a Bismarck in physical proportions—but is a combination of both in efficiency and—in competition.

It Is the Most Formidable rival other cars have ever encountered.

Its Conquests have embraced the territory formerly held by both the very cheap, and the overly-large, underly-efficient cars, selling for $1,000 and more.

It Conquers because it meets the needs and the ideas of the majority of informed buyers. It appeals at the same time to the logic of common sense and the sense of the beautiful.

Its Beauty is shown in looks and performance—handsome is as handsome does—and handsome as is.

The Buyer Who must take a peep into the purse before buying, here finds a car within his reach and made to his heart's desire.

Send for the Book—

Catalog of the "25"---Free for the Asking. Also (free) our booklet "How to Make Your Car Live Twice as Long." Read it---it's worth dollars to you. Address Department "A."

On the Other Hand, the buyer who is easily able to pay the first cost, but whose experience has taught him to look still more closely into maintenance cost afterward, finds in this 1,650-pound, five-passenger car the one he has been looking for—because it will do all any 2,600-pound car will do—and more—and at half the upkeep cost—or less.

Cost of Upkeep increases as the square of the weight, the tire makers tell us. And Standard Oil dividends confirm the statement.

Cut the Weight In Two and you divide the upkeep cost by four! Get that—it's the kernel.

But We're a Nation of aristocrats—no matter how we protest we're democratic, we are aristocrats. Every American deems himself of the Royal line. We have pride, plus—more per capita than any other people in the world.

And So It Happens that your American demands more than mere utility in the car he buys—he wants style as well as size.

A Few Years Ago a lot of misguided persons had a brilliant idea. They maintained that the "farmer's car" had not yet been built.

When Asked to Specify, they said the farmer's car should look like a farm wagon or a dump cart—or some other familiar vehicle.

So They Made a Few of those ridiculous, high-wheeled, air-cooled "putt-putters," and gleefully invited the farmer to come and see.

Farmers Didn't Come—they were too busy inspecting the latest improvements in real automobiles. So the high-wheeler soon went out of business.

That Prompted Us one day to make a little investigation and to compile a few statistics—and what do you think?—

We Found that, contrary to the prevalent supposition—the best markets for second-hand cars were not what the blase call the "backwoods and the prairies," but Broadway and 42d, New York; and Michigan Avenue, north of 30th and south of Congress, Chicago!

"All the Rubes Live on Manhattan," once said a famous showman. That was more than half true—the other 49 per cent are portioned out to Chicago and other large centers. There live the Fourflushers, the Johnny-speeders and the remittance boys.

To Get Rid of the Freaks—the experiments, the unfit—there is your market. But to the up-to-date farmers of the East, West and South you cannot sell any but the latest model, made by a responsible concern—nor to the business men living outside the cabaret zones of the big cities.

And So in designing this car we set as our standard a car not only of the highest utility, efficiency and economy, but of style and beauty as well. Because this car must appeal to those who know—business men and successful farmers—who have pride plus—and are entitled to it.

Seven Hundred and Fifty Dollars is a lot of money to a lot of people—and we designed this car to meet the needs and demands of a lot of people.

Have to Make a Lot of them, to make them at all, at the price.

Those People Have a Right to Expect, in the car they buy, something of which they may be proud, as well as one that will perform the service.

That Was No Easy Task. In fact, it was—it had proven to be—an impossible task to other makers, other designers.

Just Consider for a Moment. It's child's play to design and make a $5,000 car. Mechanically the latter presents no problems at all—for the engineer can use any material and as many pounds as he pleases to achieve his results—the buyer of such a car will not only pay the price but pay the "freight" also—the tire and other maintenance bills.

That's Child's Play as compared with the task set our engineers and metallurgists—to design a touring car of ample capacity to take five full grown adults anywhere, over any roads, in comfort;

So Strong it will withstand the usage and neglect such a car receives at the hands of the average owner who drives—but hasn't time or inclination to care for it—himself;

So Light that the tire bills and the maintenance cost will, like the purchase price, be within the reach of that "lot" of people who insist an automobile should be an economy, not an extravagance;

And Finally, of external design to conform to the current mode of "streamline body," and finished and upholstered so that the wife and daughters will be just as proud of the appearance as the owner is of its performance.

There Was a Task to test the skill and the experience and knowledge of the best corps of engineers, and the learning of the best metallurgists known to this industry.

And This $750 Maxwell Is the Result.

Has It Occurred to You that in the entire history of this industry this is the first time that feat has been accomplished? Well, it is.

And We Contend it is still impossible to any other concern—any other organization.

We Were Peculiarly Situated—ideally equipped to do it. Had no old models to get rid of—none with which this would compete. We had the plants, the capital, the talent and—the experience. You can't beat that combination.

Now, Read This—it's what you are most vitally interested in—deliveries.

We Are Making 50 Cars Per Day of this model. That isn't a circumstance, of course. Demand is for five times as many even at this season. Spring demand—we don't dare contemplate.

Our Plants Are Big Enough to make 300 per day—and that is what we are preparing for. But special machinery can't be made over night nor produced by necromancy. So we can't hope to reach a production of more than 200 per day before February at earliest.

So Your Move Is—to see the car at once—your nearest dealer. Have a thorough demonstration. Talk to acquaintance who has been fortunate enough to get one. He'll say more than our modesty permits—more than you'd credit from an over-enthusiastic maker.

Then Don't Delay—get your order in. Pay a deposit to guarantee delivery and to assure it at a time when others will be offering premiums. Then you'll be able to rest easy in the knowledge that you've secured the greatest automobile value ever known.

The "25-4" Roadster—

A natty, classy, speedy, two-passenger car that will go anywhere any car will go---and faster. Same chassis specifications as the touring car (send for the Book).
PRICE $725, FULLY EQUIPPED.

MAXWELL MOTOR COMPANY

(INCORPORATED) DETROIT, MICHIGAN

DEALERS Some makers demand exclusive representation. Still others insist on your taking on a full line in order to get one saleable model. We don't do either. Don't need to. We don't believe in "strong arm" methods, nor will we ask you to drop another make of car you have contracted for. We welcome competition. You can stand this car on the floor beside any other at any price—and the Maxwell will get the lion's share.

NOTE There's a good deal of territory still open. And other territory where we have closed but are not satisfied with the representation. So, in any event, write direct and tell us your qualifications, and why you think you are entitled to handle the greatest seller of them all, or write to General Offices, Detroit, Michigan.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, DECEMBER 18, 1913.

Concrete Roads for the Farmer

Remarkable Popularity Attending the Use of Cement in Highways of the Grain Belt Added to by Favorable Report from Iowa State Highway Commission

CITY PAVEMENT ACROSS COUNTRY BETWEEN LA SALLE AND OGLESBY, ILL.

THE approval of cement-surfaced roads by Mr. H. C. Beard, a member of the Iowa State Highway Commission, and the plans of Shenandoah, a bustling town of 4,500 population in the southern part of the state, to complete a preliminary stretch of such road, a mile and three-quarters in length, early next spring, are quickening interest in this style of durable road which has gained such a remarkable hold upon the people in so short a time. The success of such roads at Red Oak, Ames, Perry, Washington and elsewhere in Iowa is resulting in giving an impetus to the movement for permanent highways in that state.

The cause of durable roads was advanced a long ways by the recent report filed with the Iowa State Highway Commission by Mr. Beard, one of the members. In the course of his report he said: "I wish to close this report with the statement that there is one of the most excellent places for the use of a cement surface highway on the newly made road southeast of Shenandoah, leading into the city. The county and some enterprising citizens have just completed one of the best jobs of improvement there I have ever observed. There is much traffic over the road and if there is a community in Iowa that can afford it, that community is Shenandoah. I believe they would be greatly pleased with the results obtained if they would make a cement road on the grade just finished the earliest possible date in 1914."

No sooner had the report been made than the public-spirited citizens of Shenandoah took the necessary steps to secure this cement roadway, the present plan being to have it completed by the first of next July. Mr. Beard predicts that if this is done 5,000 persons, from Iowa, Nebraska, Kansas and Missouri, will visit Shenandoah inside of a year to see the new road, so great and widespread is the interest in this kind of roadway.

During the season just past, this strip of road has been put to 1.25 per cent grade of the State Highway Commission standards. The county spent nearly $3,500 on the work, the city $500 and private citizens in the neighborhood $1,500. The cement bridges and culverts are all in with a twenty-two foot roadbed over them. The grade is twenty-six feet wide and properly tiled on the sides, in addition to surface drainage. About one mile is outside the city limits and the other part in the city. It is said to be one of the most beautiful highways in Iowa and the land along it is among the most valuable.

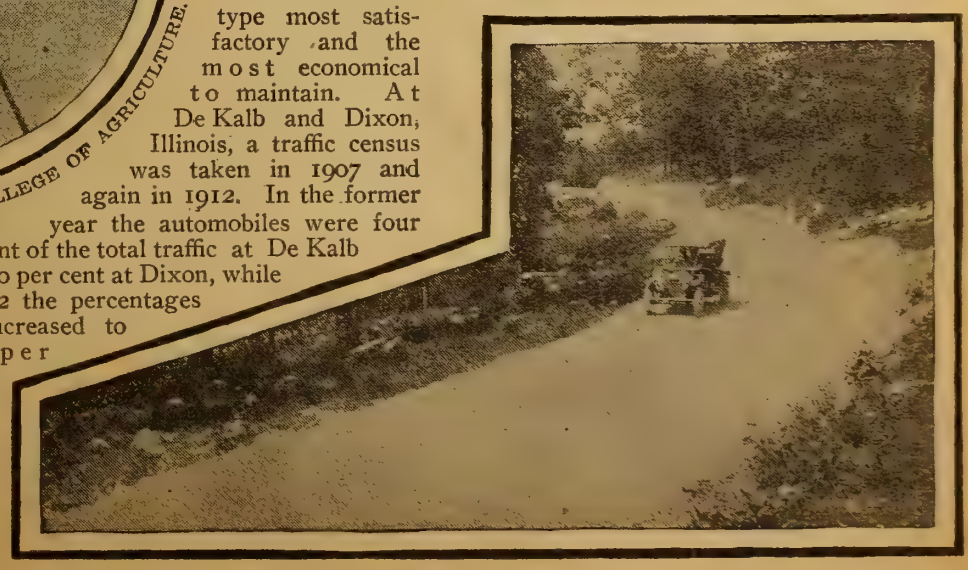
What Shenandoah is thus planning to accomplish, with such enthusiasm, numerous other towns and sections of the grain belt are likewise planning, the next five or ten years promising to see such a quickening of interest in cement-surfaced and concrete roads as has never before been witnessed in the grain belt. It is inevitable in the future that the character of traffic will determine the width of roads and the type most satisfactory and the most economical to maintain. At De Kalb and Dixon, Illinois, a traffic census was taken in 1907 and again in 1912. In the former year the automobiles were four per cent of the total traffic at De Kalb and two per cent at Dixon, while in 1912 the percentages had increased to fifty per cent and thirty three per cent respectively.

This is an indication of what is happening in all parts of the country, both on our city streets and rural highways. The only conclusion to be drawn is that the great preponderance of future traffic will be motor-drawn.

There is a vast field for the development of the motor truck, and provision should be made on most of our main roads for the eight and ten-ton truck. Already truck farmers in the vicinity of Chicago have clubbed together in the purchase of a truck by which a twenty-four-hour trip has been reduced to eight hours, while the delivery of milk from the farm to the city by motor truck is already an economic proposition. It is believed, therefore, that the construction to be undertaken on the main roads should be of a character to withstand heavy motor traffic and heavy horse-drawn traffic, as well as the lighter forms of traffic, and a serious mistake will be made in putting down any other than rigid and durable forms of pavement. This requirement confines paving materials to a very few, and of those few the material the most economical, according to official records, is concrete (crushed rock and cement). It is cheap in the first cost and maintenance is practically nothing.

The cost of the road will depend primarily upon its width, other factors, such as grading and drainage, being the same, whatever the type of road. It is evident that the main roads leading through a county and connecting with the main roads of adjoining counties, will have a variable amount of traffic on different sections. Therefore, near populous centers it will be necessary to increase their width. Furthermore, the fact that the future traffic is to be mostly motor driven, and consequently of a higher speed than that to which we have been accustomed, the main roads will need to be wide enough to insure safety at this higher speed.

While progress and development are so astounding as to frequently upset all calculations, it is reasonable to believe that a twenty-foot road would meet the requirements of the present generation. This width is sufficient to accommodate two lines of fast moving vehicles. While sixteen feet will provide for safe and comfortable passing of wagons, it—[Continued on page 24.]



MOTOR TRAFFIC, WITH ATTENDANT WEAR AND TEAR, IS THE CHIEF FACTOR TO BE CONSIDERED.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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Des Moines, Iowa.

THE SILO FOR THE BEEF MAN.

That the silo is a necessity upon every stock farm where corn is produced has been settled beyond the question of a doubt by the experiment station workers throughout the country, and by progressive farmers both in and out of the corn belt. That a man cannot dairy most profitably without silage has long been an established fact. Still, there are many men in every community who are dairying, or think they are dairying, without a silo. The value of the silo and silage to producers of beef has long been known, but it has been only within recent years that the silo has been accepted as a necessity among beef men.

The recent advance in prices and the increased cost of feeding cattle has narrowed the margin to such an extent that those who wished to be on the safe side in feeding ventures have been forced to look about for some feeding material by means of which the cost of gains could be lowered. The old prejudices against the use of silage have been swept away. The fears that silage would hurt the digestive tracts of the animals or would cause their teeth to decay and fall out no longer prevail.

Some farmers still argue that they cannot afford the labor of ensilaging corn. If they are utilizing the land to the best advantage they will certainly wish to save the stalks which contain about half the total dry matter of the corn crop and about one-third of the digestible nutrients. No one can well afford to allow that material go to waste upon $100 land.

The work done by the Purdue Station at La Fayette, Ind., and at the Illinois, Iowa and Missouri Stations demonstrates the feeding value of silage for fattening steers. Not only are the gains increased by the addition of silage to the ration, but they are cheapened so much that in a feeding venture what might be a loss on the crop fed to the cattle would be turned into gain or profit.

Often the most skeptical become the greatest enthusiasts after they have used a silo for a season, and their example in a community works much good to the general farming attitude of the community. The silo on a livestock farm means that an ever-increasing amount of fertility is being returned to the land; and that the farmer who owns the farm is a soil builder and not a soil robber.

For a period of four years, tests have been carried on with steers at the Wisconsin College of Agriculture to determine the value of silage as a feed for the fattening steer when fed alone with a suitable grain ration or in connection with either good alfalfa or clover hay roughages fed with a grain ration. In every instance it was found that silage lowered the cost of gains when introduced into the ration, and when fed as the sole roughage (although gains were not so large as when clover or alfalfa hay was added to the ration) the gains were made the most cheaply. It is unwise for the farmer to feel that because silage is a good feed it can be made the sole feed for stock. By nature it is high in water content, low in protein, and high in carbohydrate materials. To be properly balanced the ration should contain some feeds that are low in water content and carbohydrate material and high in protein. For fattening purposes a good day's ration for a 1,000-pound steer would consist of from fifteen to twenty pounds of silage, five or six pounds of alfalfa or clover hay, fifteen to eighteen pounds of broken ear corn and two or three pounds of cotton-seed meal. These figures are subject to variation depending upon weather, individuality of the animal, season of the year, etc. When starting cattle on feed less corn should be offered and the cattle gradually worked up to the full ration.

Not only is silage useful to the beef man for fattening purposes, but it is useful for stocking cattle over the winter, and a farm test made upon a Wisconsin farm under the supervision of the college of agriculture showed an average daily gain of over a pound per day, and the steers came out in the spring in good condition to go on grass. These steers were fed about twenty pounds of silage daily together with what timothy they would consume. When stocking over young cattle on silage it would be preferred to have clover hay or alfalfa hay to feed in connection, as they are higher in protein than is timothy hay.

THE IDEAL PRESENT.

The Homestead wishes each and every member of its large subscription family a merry Christmas. The year has been one of prosperity in most sections of the country, while the prices which are being received for farm products have gone far to offset the yield shortage in many crops. The prospect for 1914 is alluring, so that there is no reason why this holiday season should not be one of unalloyed joy.

When the matter of Christmas presents for friends and relatives is being considered we sincerely hope that as practical and undoubtedly as desirable a present as a year's subscription to The Homestead will not be overlooked. Coming to the home week after week, throughout the entire year, with its message of good cheer and its burden of practical farm information and advice, The Homestead makes, we believe, an admirable present in any farm home.

We suggest the desirability not only of sending in your own annual renewal promptly, but of sending The Homestead to some friend, neighbor or relative as an all-the-year-around Christmas gift, the value and interest of which cannot be overemphasized. There is still time for these subscriptions to be received by us and entered upon our books so that the December 25th (Christmas) number may go out promptly to all new subscribers. We shall hope for a large number of replies to this suggestion.

MAKING CHARCOAL FOR HOGS.

A subscriber, Mr. C. W. Chandler, asks for information concerning the practicability of using charcoal for hogs and desires also some instruction on the process of making said charcoal from corn cobs.

We will say in reply to this that it is a good thing to get into the habit of converting corn cobs into charcoal because unquestionably this product is healthful when fed to hogs.

The process of making charcoal is, in the main, simple and yet we have made a failure of it more than once by allowing the fire to burn the cobs to an ash rather than stopping the burning process when the charcoal stage has been reached. Our pit was six feet long, four feet deep and three feet wide. Some form of kindling must be used to start the fire in the bottom of this pit after which the cobs should be gradually piled on, being careful not to smother the fire and at the same time making as much haste as possible in getting the pit well filled up with cobs. When the flames have worked well through the cobs and the pile is beginning to settle then place over the opening of the pit a close covering. Wood will not answer the purpose because it will burn out. We used a piece of an old smoke stack that was purchased at a nominal cost from a factory in town. Of course, it was flattened out before being put into use.

In addition to placing this cover over the cobs it is a good plan to throw soil around the edge in order to absolutely exclude the air because only in that way will the fire be checked. If there is any at all, no matter how small it may be, the fire will continue to burn and reduce the contents of the pit to an ash which is not what is required. If there seems to be danger of the fire going too far then simply dash on plenty of water and in that way a considerable percentage of the charcoal may be saved.

We have always liked the plan of dissolving a few gallons of salt in some water, after which the water is thrown over the cobs. This seems to add to its palatability and we believe that it is actually beneficial when fed.

IMPROVING PARCEL POST.

The first of the year certain changes will be put into effect in the parcel post law which should make the service of far more use and value to the farmer. The most important change is the increase in the maximum shipment allowed within the "home zones," the weight allowed being increased from twenty to fifty pounds. We summarize the changes herewith:

An increase in the weight limit to zones No. 1 and No. 2 from twenty pounds to fifty pounds.

An increase in the weight to all other zones from eleven pounds to twenty pounds.

A decrease in rates to the third, fourth, fifth and sixth zones.

Books weighing more than eight ounces to be carried by parcel post at regular zone rates, beginning March 16th. Books weighing less than eight ounces to continue in third class at 1 cent for each two ounces.

Provision for mailing gold, gold dust and gold bullion from Alaska, in packages weighing not more than eleven pounds, at a rate of 2 cents an ounce.

The proposed reductions in postage rates are:

Third zone rates, from 7 cents for the first pound and 5 cents for each additional pound, to 6 cents for the first pound and 2 cents for each additional pound.

Fourth zone rates, from 8 cents for the first pound and 6 cents for each additional pound, to 7 cents and 4 cents, respectively.

Fifth zone rates, from 9 cents for the first pound and 7 cents for each additional pound, to 8 cents and 6 cents, respectively.

Sixth zone rates, from 10 cents a pound and 9 cents for each additional pound, to 9 cents and 8 cents, respectively.

The fifty-pound limit is confined to zones No. 1 and No. 2 on the theory that it will enable farmers and merchants to make a much wider use of the parcel post. The increase will permit of farm produce being shipped to the near-by town or within a radius of fifty or 100 miles at a lower rate than heretofore and with a greater maximum of weight, which should add to the market the service has already given the farmer.

It is interesting to note to what extent the parcel post is being used by the farmer. While the Chicago postmaster is quoted as saying that the farmer is not taking advantage of the service, so far as his city shows, the postmaster of Kansas City (a more typical section, so far as feeling the agricultural pulse is concerned) states that fully 200 turkeys and about 500 chickens came to that city in the parcel post since the service was inaugurated early in the year. He adds this interesting fact: "An unusual amount of the skins of fur-bearing animals are being sent by parcel post to hide dealers in this city and the number of skins are increasing daily as the season progresses. Each day we receive from 300 to 500 skunk skins."

This would indicate that the farmers of the grain belt are finding the new service useful and to their advantage, a finding which, we believe, the facts will verify in practically all parts of the section.

HANDLING OF SERUM BY VETERINARIANS ONLY.

The Nebraska Veterinary Association has recently made an attempt to secure the favorable action of the state livestock sanitary board in the matter of placing all the responsibility of animal inspection and the administration of veterinary biological products in the hands of members of that association. The following bill has been drafted and submitted to the sanitary board for its approval:

After January 1, 1914, no person will be authorized or appointed to do inspecting or testing of livestock for interstate shipment, who is not a member—in good standing—of the Nebraska State Veterinary Medical Association. Everyone so commissioned will be required to take an oath of office.

Manufacturers and distributors of veterinary biological products that are administered, offered for sale, or exchange within the state of Nebraska must possess an uncanceled license issued by the U. S. Bureau of Animal Industry, in accordance with B. A. I. Order No. 196, and a permit from the livestock sanitary board of the state of Nebraska.

Every manufacturer or distributor of veterinary biological products, which are to be administered, offered for sale or exchange within the state of Nebraska, must be licensed by the B. A. O. of the U. S. Department of Agriculture as specified in the B. A. O. Order No. 196 and must have a veterinarian in charge that is a graduate of a recognized veterinary college, and if the manufacturer or distributor practices administration or demonstration of his biological products within the state, the veterinarian in charge must be registered with the state board of veterinary medicine.

No person, who is not a registered veterinarian in this state, shall be allowed to administer or demonstrate the use of such vaccines, viruses or any disease-producing biological products that may be dangerous in transmitting or spreading any infectious or contagious disease, without first obtaining special individual permits from the state livestock sanitary board.

Every sale of anthrax vaccine, mallein, hog cholera virus, veterinary tuberculin and anti-rabe serum, in the state of Nebraska, by any manufacturer, jobber, wholesale or retail druggist, or any other person shall be reported to the state veterinarian immediately, giving name and address of purchaser and date of sale.

By the term, veterinary biological products, herein used is meant: Vaccines, bacterins, serums, viruses, antitoxins, bacterial cultures, or any disease-producing micro-organism and its products used in veterinary medicine.

These are matters that interest every stockman in the corn belt because sooner or later we must have uniformity of action throughout all states on a matter so important as the stamping out of livestock diseases. While stockmen believe that a qualified veterinarian only should inspect stock for interstate shipment, yet when it comes to the matter of making it compulsory for an inspector to be of good standing in the Nebraska State Veterinary Medical Association stockmen can see only in this a tendency to create what has been termed a veterinary trust.

There is also opposition to the plan set forth in the fourth paragraph, which, in case this bill should become a law, would require each individual farmer who desired to treat his own hogs to secure a special permit from the state livestock sanitary board.

We are presenting this matter in order that ample opportunity may be given to stockmen to consider the terms of this bill. It must be remembered that in dealing with contagious diseases the individual stockman can accomplish but little single handed. There is no ground for the fear that a dangerous veterinary trust will be formed in any case, but there is a question as to the advisability of requiring the individual stockman to procure a permit before he can use certain biological products on his own herd.

We would like to have the matter discussed by those of our readers who have clearly defined views on the subject.

SIGN YOUR RIGHT NAME.

The Homestead is frequently in receipt of letters which, while worthy and altogether desirable, fail to bear the signatures of the writers. We take this opportunity to lay down the general rule that no such communication, no matter how interesting or valuable, can be printed. It is absolutely necessary that every letter intended for print or for answer in any manner shall bear the name and address of the writer, not necessarily for publication, but as evidence of good faith.

The Homestead is particularly glad at this season of the year to receive letters from its subscribers. In fact, we are desirous of securing such letters in large numbers inasmuch as they keep us in touch with our readers and at the same time furnish material for the interesting new department, found on another page, under the title "The Experience Meeting." When it is not desired that the correct name of the writer should be printed all that is necessary is to sign an assumed name with the correct name underneath, or to add a note asking that the correct name be withheld, and such will be done. It is imperative, however, that somewhere in the communication the name of the writer appear, otherwise the letter will neither be

published nor will any attention be paid to it. This is the rule in all legitimate newspaper plants and will be strictly adhered to in this office.

Send in your contributions and write us for any information desired, but do not fail to sign your name.

THE SCHOOL YARD THE MIRROR OF PUBLIC PRIDE.

In a recent bulletin prepared by the extension department of the Ohio State University, Prof. A. B. Graham points out that it is not uncommon to find in the dwelling house and the grounds surrounding it a manifestation of pride in private property. The house and barn, outbuildings and fences show an appreciation of the beautiful. From year to year more good taste is displayed in a greater number of ornamental plantings and in the keeping of the lawn. The pines and spruces, which in an earlier day were set so thickly that they practically hid the residence, have been cut from directly in front of the house so as to make it a central point of observation. Local pride also manifests itself in clean fence rows, graveled driveways, and mowed roadsides. No one will deny that it takes some time, pains and natural or acquired taste to make the homestead appear well to those who live in the community and to the occasional passerby. The farmer is judged more by the appearance of his farm and buildings than by anything else that may come to the stranger's attention. The well-kept home calls forth much favorable comment, but what is said when the front gate hangs by one hinge, the old walnut or apple tree is the roosting place for the turkeys and chickens, the cherry tree furnishes shelter the winter through for the old scythe and the field mower, the undergrowth of locust and rose bushes hides from view what may be a well-constructed residence?

What might be considered an average pride as to the private property finds itself reflected in the school grounds of that community. The pride of the community as a whole is very often far below that shown in its best private properties. The school grounds are but mirrors in which the communities can see their own pride reflected. An ash pile that has accumulated for years shows the greatest degree of indifference on the part of both teachers and patrons, for its removal from the front door is an improvement that may be easily made.

Perhaps the most demoralizing agency on rural school property is the improperly-cared-for outbuilding. Exposed outbuildings can be screened with a few plantings that in a short time will hide them. It will pay any community to direct its attention to the cleaning up and placing in proper condition of all of these buildings so that those from self-respecting families may not have their sense of common decency and propriety offended. The coal house or wood house, which furnishes a place for the bill poster to practice his art, should be so far back from the road that he cannot reach it without making an extra effort. Bill-posting of every kind on school property ought to be prohibited. This building is driven to only a few times a year by those who haul fuel and the so-called convenience that comes from its being near the road is more than offset by its detraction from the general appearance of the front of the house and yard. In this day the main paths from the road to the front entrance, to the well curb and perhaps the outbuilding should be made of such material that they will always be in proper condition to be used as walks.

In most places where trees have been planted, the entire front of the house is hidden. If the planting were well to the left and right of the building, making the house the central point, with a grass plot in front, the picture presented to the passerby would be much more pleasing. Low plantings, such as lilacs, snowballs, hardy hydrangeas, flowering quince, and syringas should be planted in masses around the borders and in the corners of the school lot. The lawn mower should be used upon the front of the school yard. Too often these yards are allowed to grow up to tall weeds which are cut down only a week or two before school begins.

Any reader of these lines will recall having limped about for a few days with snagged bare feet, which he would not have had if the school yard had been cared for with the same diligence that is displayed on most lawns around our residences. The school yard may be planted in such a way that there will be beautiful pieces of shrubbery in bloom before the school closes, bright colored foliage for the fall, and for winter arched and groined palaces formed by the snow-laden branches of the trees and bushes. Such school properties as command the admiration and respect of the occasional visitor of the school, as well as the patrons, children and teacher, make better citizens, happier children and more hopeful teachers.

ABUSING SIDEHILL FIELDS.

There is such a thing as abusing the farm. We can do it all too easily by robbing the soil and by letting weeds gain possession of the ground to such an extent that it is a fight from start to finish to raise crops. Perhaps however, the most permanent abuse of the farm is in letting ditches get started in sidehill fields. This is an abuse that is seldom corrected entirely, and in many instances a field is divided into two and three parts by ditches washing so deep that teams cannot cross.

A close study of sidehill fields that have been abused seldom fails to reveal the fact that the start of all trouble came about by plowing the field the wrong way of the slope at some time in the past. Instead of plowing in a direction to catch and hold the wash, the field has been plowed up and down the hill at some time, and every dead furrow has become a ditch, or at least has made a great start towards being such. Looking at some of the sidehill fields from a distance, it is still possible with many of them to distinguish the dead furrows that were made ten and fifteen years ago. Some are mere lines and some have developed into ditches too deep to be crossed by farm machinery. The lesson to be learned from these scarred fields is not to abuse them by plowing up and down the hill. One heavy rain following the plowing can do mischief that never can be effaced.

Ain't It Fine Today?

SURE, this world is full of trouble—
I ain't said it ain't.
Lord! I've had enough, an' double,
Reason for complaint.
Rain an' storm have come to fret me;
Skies were often gray:
Thorns an' brambles have beset me
On the road—but, say,
Ain't it fine today!

What's the use of always weepin'
Makin' trouble last?
What's the use of always keepin'
Thinkin' of the past?
Each must have his tribulation,
Water with his wine.
Life it ain't no celebration.
Trouble? I've had mine—
But today is fine.

It's today that I am livin',
Not a month ago,
Havin', losin', takin', givin',
As time wills it so.
Yesterday a cloud of sorrow
Fell across the way;
It may rain again tomorrow,
It may rain—but, say,
Ain't it fine today!

—*Douglas Malloch.*

GRAIN-BELT STATES ON THE BLACK LIST.

Illinois has put up the bars against dairy cattle from nineteen different states. In the form of a prohibitory proclamation Governor Dunne, on advice of the Illinois Livestock Board, has prevented the introduction of dairy cows into Illinois from any of the following states: New York, Pennsylvania, Virginia, West Virginia, Kentucky, Tennessee, Ohio, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Oklahoma, North Dakota, South Dakota, Montana, Texas.

It was pointed out by Governor Dunne that serious conditions now exist as the result of the importation of diseased cattle into Illinois making it necessary, in his opinion, to adopt extreme measures without further delay. The proclamation does not apply to cattle shipped into the state for immediate slaughter, but rules only against cattle imported for dairy purposes.

Investigation has shown that an unusual prevalence of bovine tuberculosis justifies the embargo which has been raised by Illinois against its sister states. It is not believed that this ruling will have any effect upon the milk supply. Of course cattle with a clean bill of health are not excluded. In this way it is expected that the practice of making Illinois the dumping ground for tubercular cows will be instantly checked.

WINTER TREATMENT OF ALFALFA FIELDS.

Mr. A. A. Burger, one of the most successful county advisers in the Hawkeye state, has already done much to popularize alfalfa growing. In the following communication, Mr. Burger discusses one phase of the alfalfa question, which we believe will interest our readers:

It is a notable fact that out of twenty-three men reporting their success with alfalfa, but one who used plenty of barnyard manure failed. From all of the experiments which have been carried on, it is evident that the application of manure to alfalfa fields is the greatest single factor in its successful culture. It is true that alfalfa grows on a variety of soils. It may be seen growing on clay loams, on sandy loams, and on heavy black soil rich in organic material. But on whatever type of soil alfalfa may be growing, the application of manure at the rate of eight or ten tons per acre at the time of seeding, in practically every case, gives beneficial results.

But at this time of the year, alfalfa fields are well started and the problem is how to care for them properly for the winter. Alfalfa which was sown at the proper time in the fall of the year and which secured the necessary rains should be six or eight inches high if it is to withstand the winter. Fall seeded alfalfa should not have been pastured, nor should it have been mowed down unless in either case the mowing or pasturing was done extremely early in the season and the plants have had sufficient time in which to reach a good growth before the freezing weather of winter. Close pasturing or the cutting back of alfalfa has been responsible for the loss of many a fine alfalfa field. This is as true of old fields as of the new seeding. All such alfalfa fields which have a sufficient growth for winter and upon which there is a stand sufficient to warrant a good crop another year should be lightly top-dressed with manure soon after the ground has frozen. The manure when applied in this case seems not only to furnish food for the young plants, but also serves as a protective covering. It is noticeable in all fields where manure has been applied in the fall of the year that the alfalfa better withstands the winter, or, what is more important still, the plants are not so likely to be uprooted by the upheaving action of the frosts of early spring. It must be remembered that the effect of cold weather in the northern part of the state is an important factor to be reckoned with in alfalfa growing. And if we can eliminate the danger of losing the alfalfa stand by properly treating it at this time of the year no time should be lost in doing so.

When manure has been properly applied in the fall of the year, the effects are always evident in the spring by a more vigorous, by a ranker, and by an earlier growth. The effect may be seen throughout the entire season and there is always a decided advantage in the amount of hay secured from such plots. In applying the manure in the fall of the year, care should be taken that it is not applied too heavily. A light top dressing evenly applied will answer the purpose, and there is no treatment which will be more beneficial and which will give more evident results the year following.

While it is possible that only a comparatively small percentage of farmers are able to carry out this suggestion because they are lacking a supply of manure, yet on the other hand, we are coming into the season when there is a rapid accumulation of manure in the yard. If this can be spread lightly over the alfalfa field, it will unquestionably bring better returns than if it were used on any other crop. Those who are trying out an acre or two of alfalfa for the first time should by no means fail to use a light coating of barnyard manure.

COMFORT FOR THE FATTENING HOG.

The life of the hog that makes money for his owner must be one continual round of pleasure. With him there should be but two issues, viz., eating and sleeping. It is all very well while a hog is growing to let him work for his own living, as it were, by rustling in the pasture, doing a certain amount of rooting for bait, but as the finishing season comes on everything possible should be done to contribute to laziness and inactivity.

The fattening hog always relishes a change of bedding. What man is there who has not felt more than repaid for the labor involved in cleaning out a hog pen, and bedding down the same simply by the smiling countenances of his hogs when they were admitted to the newly cleaned quarters. If animals under any circumstances can possibly experience a feeling of gratitude, and express it outwardly, we believe that it is done under these conditions. A bunch of well hogs can have an enormous lot of fun in working over a clean bed, and we believe that it contributes immensely to thrift and it aids much in fattening.

Their good time can be added to still more by introducing some variety into the ration. Straight corn will not make as cheap gains as corn supplemented with a little oil meal or tankage. These supplementary foods are exceedingly palatable, and they are very rich in flesh forming qualities. They will answer every purpose when fed dry and if shelled corn is used instead of ear corn, simply place the supplementary food on top of the shelled corn when it is put into the troughs. A feed of soaked oats or ground barley occasionally will be relished and it tends to whet the appetite and keep the hogs on full feed without running the risk of making them stale.

In matters of this kind one can be guided a little by his own appetite. None of us would care to be compelled to live on the same thing meal after meal; and we have noticed that successful swine men act as if the hog were built a little on the same plan. It is simply another way of giving the porker a good time. Variety in the ration means that little surprises will keep a bunch of hogs ever eager for the next meal, and while they are in this condition, it may be depended upon that they are making the best kind of use of their grain.

ALFALFA HAY FOR HORSES.

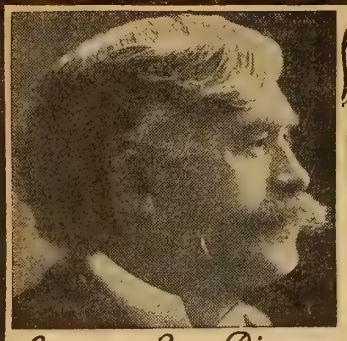
The 1913 drouth which covered a considerable area of the corn belt has accomplished something by way of popularizing an already popular legume, alfalfa. In this connection attention is called to an experiment that has been conducted at the Kansas station to determine the relative feeding value of alfalfa hay, timothy and prairie hay.

It was found as a result of feeding 900 horses for a considerable length of time, that corn and alfalfa make the cheapest ration that can be fed to a work horse. It is also claimed by Dr. C. W. McCampbell that alfalfa is one of the best forms of roughage for a horse when it is properly fed. Corn, when fed with alfalfa hay, gives as good results as a ration composed of oats and prairie hay, while in addition, the cost of the former ration was one-third less than the latter.

A horse weighing 1,150 pounds requires ten pounds of alfalfa hay, daily, eight pounds of corn and two pounds of oats. It was found that horses fed oats showed no more spirit than those that received corn. It seems as if spirit and endurance depend more on the amount and quality of the feed than on the particular kind of feed.

This experiment was carried on with artillery horses belonging to the United States government. It is our opinion that the quantity of feed found sufficient for these horses will not answer the purpose for the farm work horse of the same weight, viz., 1,150 pounds, while at hard labor. It is true, however, that the average man feeds too much hay, so that frequently the horse is burdened rather than benefited by the consumption of a large quantity of roughness. However, ten pounds of hay, eight pounds of corn and two pounds of oats seems to us to be insufficient for the farm horse when he is being put through his paces during the summer months.

Sidney I. Roy, of Hannibal, Mo., while a witness before the house committee on roads, advocated the construction of model roads by the federal government in every county of the country. He opposed the idea of the federal government spending money to construct main arteries across the continent.



James M. Pierce

THE PUBLISHER'S VIEWS —ON— TOPICS of THE TIME

MERRY CHRISTMAS.

CHRISTMAS on the farm! The very words have a rollicking, joyous sound. They ring with anthems of good tidings and good times. I pity the poor little boys and girls who have to get all their knowledge of jolly old Santa Claus second-hand in some city home, who lose nine-tenths of the zest and the jest of the occasion by not living in the country.

Those mysterious, secret conferences between father and mother over each one of the little brood, what to get that will please them all the most. Those wonderful trips to town, with heavy wrapping paper concealing bulging mysteries and an air of secretive conspiracy pervading the whole house, while every one, from young to old, tiptoes back and forth with packages more or less clumsily concealed behind them. Then the surprises at the last! And the tang in the air, whether it's a white Christmas or not, with even the dumb brutes seeming to realize that something great and wonderful and altogether out of the ordinary is happening! Isn't Christmas the most wonderful time in the whole year: that is, of course, if it is spent on the farm, where it ought to be?

If there is any season of the year that makes me downright glad and absolutely contented just to be alive it is the Christmas season. You can't beat it. The very atmosphere is tense with expectation, surcharged with emotion. Everybody has a different air about them; the grouches disappear as by magic. It is a time when everybody is worth knowing; when even the biggest bores of other occasions are welcomed as good fellows well met. Do you know why all this is so? It is because we all, regardless of age or station or crops or anything else, are renewing our youth again. We are once more children, care free, glad to be alive, contented with every moment as it passes. You remember the theme of that touching poem, "Rock Me to Sleep, Mother," how it runs with its haunting cry: "Make me a child again, just for tonight." We're growing old, the crow's feet are visible around our eyes, the wrinkles are getting deeper and more numerous. Then all of a sudden Christmas comes and some power makes us a child again. But, oh, the pity of it—"just for tonight."

That is the only drawback to Christmas; we forget we are children and renew our manhood, or womanhood, with their attendant work and worry, in just a day or so. The Christmas spirit falls off our back, like a pack off the back of a peddler, and we're just ordinary, hard-working grown-ups again. What I would like to see more than anything else would be a Christmas spirit that would last all the year around, not just one day, but 365 days—rainy, sunshiny, barren, golden, all kinds of days, the whole year around.

I wish I could come into every farm home in the entire grain belt with just this message: Good cheer and good fellowship not on Christmas alone, but on every one of the 365 days of the entire year. Let's give our presents on Christmas; a present to everyone we know and love (father, mother, George, Mary, the home folks, the hired man, the neighbors, the men we've had pleasant dealings with throughout the entire year) so far as lies within our means, no matter what the presents may be.

But let's not stop at that; let's band together to continue the giving throughout the entire year. Not costly things—as men measure gifts in the scale of dollars and cents, as so many bushels of corn for a new dress for mother, or so many bushels of wheat for a new gun for George or an organ for Mary—but smiles and pleasant thoughts and well wishes and all that sort of thing. It won't cost us a cent, it will do us a lot of good and it will make it such a good, worth-while world. Will you join me in the plan?

Here's our hands on it, all my farmer friends for whom I am hoping the past year has been one of unalloyed enjoyment and the coming year one of greater promise than any that has preceded it, and here's the start, for my part: As merry and happy and blessed a Christmas to you as any man, woman or child ever had in all the world. That is the gift and the wish which go out of my heart, full of thankfulness and contentment, to you all, every one of you, on every farm in the whole grain belt.

THE PRESIDENTIAL PRIMARY.

EVERY farmer in the country should rejoice that at last all three of the great political parties unite in a demand for presidential primaries. It means not only that every voter will have absolute freedom in selecting the nominees for the highest offices in the land, but that no longer will the grain-belt farmer be disfranchised in favor of the low-down, ignorant, black roustabout and cotton picker of the South.

President Wilson has made the motion for presidential primaries unanimous by the splendid suggestion in his recent message to congress. He has robbed the issue of all politics and partisanship and done a real, patriotic service to his fellow voters. The party score now stands three to nothing in favor of a direct vote.

Before I take up the president's suggestion in detail, let us stop a moment and consider how unanimous is the motion. There is not one of my readers, I am sure, but will recall the situation as it existed only eighteen months ago: both the old parties either openly opposing presidential primaries or ignoring them when the prospects or results did not suit the will of the political bosses in control. You remember what happened in the republican national convention at Chicago, don't you; delegations duly elected by the people unseated by the national committee and in their place delegates seated who were chosen at secret caucuses or rump conventions or by no formality at all, the sole qualification being that the delegates thus seated would vote for the candidate favored by a majority of the national committee. That was the beginning of the end. The handwriting on the wall began to be visible at that moment.

What is the situation today?

There are three great political parties: republican, progressive and democratic. What is the stand of each on this question of presidential primaries?

First, the republicans. Eighteen months ago the national committee refused to recognize delegates elected at a direct primary, giving as excuse that they had no authority to do so. Last week the legal sub-committee of the national committee, in an opinion handed down in Detroit, decided that the national committee has authority to change the manner and method of choosing delegates to future national conventions so as to provide that delegates be chosen in such manner as the laws of the several states from time to time may provide. In other words, delegates shall be chosen according to the laws of the state they represent, rather than according to the discretion of the committee itself. This decision is exactly opposite to the rulings of the national committee, in Chicago, in June, 1912. It legalizes and recognizes direct primary delegates who were refused admission to the convention only eighteen months ago.

Nor is this all. One of the leading republican party leaders, Senator Cummins, of Iowa, aided by such stalwart party men as Governor Hadley, of Missouri, and Senator Borah, of Idaho, proposes a special republican convention to change the manner of selecting delegates, so that they shall be chosen at primaries instead of by caucus and convention. A call for such a convention will undoubtedly be issued in the near future.

Nor is this all. The republicans of New York, the most corrupt political state in the Union, under the domination of political bosses more than any other commonwealth, have already held a meeting and decided in favor of direct nominations, the radicals being in complete control.

Second, the progressives. This party came into being as the result of a revolt against the party which refused to honor presidential primaries. One of its chief planks is a stirring declaration in favor of direct nominations for all offices. The progressive stand on this subject is so strong and so well known as to call for little discussion from me at this moment.

Third, the democrats. President Wilson, as the head and front of the party, in his message to congress last week, had this to say:

> I turn to a subject which I hope can be handled promptly and without serious controversy of any kind. I mean the method of selecting nominees for the presidency of the United States. I feel confident that I do not misinterpret the wishes or the expectations of the country when I urge the prompt enactment of legislation which will provide for primary election throughout the country at which the voters of the several parties may choose their nominees for the presidency without the intervention of nominating conventions.
>
> I venture the suggestion that this legislation should provide for the retention of party conventions, but only for the purpose of declaring and accepting the verdict of the primaries and formulating the platforms of the parties; and I suggest that these conventions should consist not of delegates chosen for this single purpose, but of the nominees for congress, the nominees for vacant seats in the senate of the United States, the senators whose terms have not yet closed, the national committees, and the candidates for the presidency themselves, in order that platforms may be framed by those responsible to the people for carrying them into effect.

Here is the leader of the dominant party going further than either of the other two in urging this reform. With what result? Democratic senators and representatives, and party men of all station and standing, are literally falling over themselves in their eagerness to adopt the president's suggestion. Washington advices declare the president's suggestions will be crystallized into laws within a few weeks; bills embodying them have already been introduced. The new broom of democratic reform is sweeping clean. The first obstacle it swept away was the last remaining vestige of politics and partisanship in the matter of presidential primary reform.

Here is a situation in which every grain-belt farmer, without regard to or thought of politics or partisanship, may well rejoice. Last year the republican grain-belt farmer was disfranchised as completely as though he were refused permission to go to the polls. How? By giving to the carpet-bagging white and the ignorant black in the South a representation from six to thirty times as great as that of the grain-belt farmer. In the Chicago national convention last year as many republican delegates were seated from Alabama as from Minnesota, as many from Georgia as from Iowa, as many from Louisiana as from North Dakota and South Dakota combined. This, notwithstanding the fact that the Alabama delegates were selected by a mere handful of postmasters and professional jurors, while the delegates from Minnesota were elected by the votes of thousands of farmers. This, notwithstanding the further fact that at the preceding presidential election Alabama cast only 25,305 republican votes while Minnesota cast 195,843 republican votes. In other words, one ignorant black voter of Alabama was considered the equal of eight intelligent Minnesota farmers. And so with the other states, the ratio being one ignorant negro in Louisiana considered the equal of thirty progressive, prosperous farmers in North Dakota.

But now all three of the great parties agree that this should not be; that it is wrong, unfair and unjust. I do not know of any recent occurrence in which the farmers of all parties may so well rejoice. Their votes will be counted now. They have been enfranchised. Their voice will be heard in Washington, in the councils of all the parties, wherever these councils may be held. It is a great victory, long deferred but none the less gallantly won. It is the greatest political reform, I believe, of many years. It is so great and so far reaching I feel like declaring it marks the beginning of a new era, almost of the political millennium. I rejoice with my fellow farmers. The yoke has been lifted at last. After many weary years of waiting, at last we count for something, at last our voices will be heard, our votes counted; at last we can see the sun breaking over the next hilltop and approach the horizon in the knowledge that better things lie just beyond.

James M. Pierce

A LET-UP IN ROAD DRAGGING.

We have noticed with some degree of disappointment that roads that were diligently dragged up until corn-husking time have been left religiously alone since that date. Township trustees and county supervisors have acted, in most cases, as if the roads were not used during the late fall and winter. As a result of carrying out this policy the surface of many highways will become solidly frozen while in a rough condition. This means discomfort in travel and the shaking to pieces of vehicles during the rest of the winter.

We claim that there is no excuse for the practice of so abruptly stopping the drags. They are needed not only late in the fall, but they can be used to very great advantage during the winter while the ground is bare. Even after the ground freezes it seldom happens that we have periods of longer than two or three weeks when the surface does not become greasy and that is an ideal time to get busy with the drags. If the drag fund is exhausted before the approach of winter then that is the best evidence that one would desire to demonstrate bad business management on the part of the road overseers.

The winter months furnish the period for farmers' social enjoyment. The enlargement of one's circle of friends, if it is made at all, must be made when the work on the farm is slack and yet when our traveling must be done over rough roads there is no incentive to discharge the ordinary social obligations that should be discharged in the interest of a healthful community life.

We are well aware of the fact that the trustees and road overseers are not going to get busy as the result of any of our advice, but we are directing our remarks, in this case, to those who have the highest authority in having these matters attended to, namely, the folks of the farm. If the roads are not in condition to suit you simply go after those who are responsible for their condition. You can just about have your own way in these matters if good judgment is used in the presentation of your disgust over the condition of the highways.

So fundamental is the upbuilding of rural life, in the opinion of Dr. P. P. Claxton, United States commissioner of education, that the observance in the schools of one day each year as "Agricultural and Rural Life Day" should become a national custom.

THE EXPERIENCE MEETING

Facts Learned by Busy Homestead Workers Passed Along for the Profit and Pleasure of Others, to the End That Farming May Be Made Easier and More Productive.

BOOMING USELESS LAND.

To the Editor of The Homestead:

I notice in different northern papers advertisements of Florida land companies who are trying to get people to leave the "frozen north" and go to the land of sunshine to make homes where they can raise three crops a year on the same land, etc.

Will say that I did not find one word in ten true of the stuff sent me, so far as I could find, and I was in Palm Beach county all winter from December 26, 1912, to March 10, 1913. I never saw my five-acre tract, it is so swampy and sandy. The company's agents almost laughed in my face when I asked them to take me to see it. Money is all they are after. Lakeworth is the new town this company is booming. There are no song birds, no flowers, no grass, only that which has been planted and cultivated at a big expense. It is a good place for the rich to go to spend the winter and to plant fruit and truck as a pastime, but a poor man cannot make a decent living. Everywhere the soil is nothing but sand as white as snow, except in a few places and it takes a fat purse to buy these.

I am writing this in order that you may protect your readers against being defrauded out of their hard-earned savings. I have no ax to grind, but I want to say, stay where you can see a green field and hear the birds sing in the spring. H. D. Packard.

A RECORD-BREAKER CORN YIELD.

To the Editor of The Homestead:

We are sending you a brief account of the greatest acre of corn yield ever produced in the world from a northern variety of corn. We have undisputable evidence that W. M. Hutson, Bardwell, Ky., Carlisle county, grew 231 bushels and thirty-one pounds of shelled corn per acre upon a plat of ground 5x32 rods, this being the result of the acre contest of Graves and Marshall, Antwerp, Ohio. The husked corn from this plat weighed 14,904.58 pounds and as the result of shelling 100 pounds of ear corn eighty-seven pounds of shelled corn was produced, or 87 per cent. Upon a basis of 87 per cent of shelled corn, the 14,904.58 pounds would net 12,966.98 pounds of shelled corn or 231 bushels and thirty-one pounds.

Ohio. Graves and Marshall.

A CINDER FLOOR.

To the Editor of The Homestead:

The best stable floor we have we made nine years ago from cinders. We screened the cinders and used the coarse part below, about a foot thick, using one part of cement to ten parts of cinders, mixed dry, only using enough water to make it damp. This mixture was tamped well and on top we put four inches of the fine cinders, using four parts of cinders to one part of cement. This can be made stronger next to the manger by mixing sand and cement and pouring it over the cinders. The same team has been standing on it all these years and they do not show any bad effects. It has never been slippery and we have only repaired it a little once, cleaning out the low places and filling them up. It is very cheap. A Reader.

OBJECTS TO CERTAIN FORMS OF CRITICISM.

To the Editor of The Homestead:

It has indeed become a pastime to criticise farmers and their ways of managing things, but when it comes to exposing their home life and complaining how they treat their women it is time something was done.

The farm women do work hard. There are times of the year when work is forced upon them, when the men folks of the farm are also overburdened and can give little or no help, and household help in the country is almost impossible to get because employment in the city gives more leisure and higher wages. However, I did not start out to discuss the help question, but to show the farmer in a better light in his home relations.

The farmer is no less kind, neither has he less love or respect for his family than our city friends who will not dispute that our best and greatest men have been reared on the farm. The city folks have for ages looked down on the tiller of the soil, when everything they buy over the counter comes from the farm. They ought to think it a privilege to buy the things the farm produces, but in these advanced ages they have changed from making fun and turned to giving advice as to how to work and how to increase the crops, how to treat farm women and lighten their burdens. They have not told him how to increase his income except by harder and more careful work, and by spending more money for improvements and tools which means more profit for our city brothers. Everyone knows that it requires a considerable outlay of money for the farmer to give his wife an easier time.

I believe in scientific farming and in improvements of all kinds, but things will not be much better for us or our wives and there will still be no millionaire farmers until some good man comes forward and makes laws that will place us on an equal footing in business. I hope the day will soon dawn when we farmers can take a basket of produce to town, or whatever we have to offer for sale, and tell the merchant what we can afford to take for it. In this way our poor, overworked women will have some value placed on their labor and time for raising chickens, packing the eggs, milking the cows and churning the butter. What have our city brothers to contribute toward making our wives more independent that they may have some luxuries? As it is now we have to take whatever we have to sell to market and ask, "What will you give for this?" and we have to take their stated price regardless of the cost to produce it and the value of labor expended. If we need something we turn to the same man and ask what he will take for calico, lard, flour or whatever he has for sale. We take what he gives and give what he asks for it.

Let some whole-hearted man step forward and show us how we can have an equal share of the profit. We do not ask all, but allow the men and hard-working women that feed the nation a right to value their labor and it will not be asked why there are no millionaire farmers and why our women have such a hard time.

Highland Co., Ohio. Eli Wilson.

SIMPLE DOPE FOR HOGS.

To the Editor of The Homestead:

I have noticed considerable in your paper about the serum treatment for hog cholera and will say that I have had much experience with this disease. My experience has convinced me that bicarbonate of potash will cure cholera in hogs. My mode of treatment is to pen the sick hogs by themselves and for each sick hog give two heaping tablespoonfuls of the potash dissolved in boiling water each day. I usually give in this proportion in a little bran mash or in the drinking water. This should be continued for three days and then given for a day or two in much smaller doses. The non-sick hogs should be given, say, a heaping tablespoonful of the potash in slop for each hog once a day for a few days and the pens and lots and runways should be cleaned up. J. E. Sammon.

THREE KINDS OF STABLE FLOORS.

To the Editor of The Homestead:

The universal kinds of horse stable floors are made of clay, plank and cement. The clay floor is good for horses if it can be kept level. About one load of clay to the stall is enough.

A plank floor will be found drier than a clay or cement floor, as both draw dampness, but it will not last over about eight years.

A cement floor is cold and damp unless lots of bedding is used. Some put the plank on cement for the reason that the cement will keep the plank from rotting underneath and also when they are worn through the horse will not go through. Another plan is that of laying the plank crosswise the stall and bolting them ino the cement before it is hard, or better still, sinking the oak pieces into the cement before it is hard. The latter plan does away with anything on which the horses might get hurt.

Subscriber.

STRONGLY ENDORSES SWEET CLOVER.

To the Editor of The Homestead:

I want to set forth what I think will be a soil builder and put humus in the soil faster than any way I have seen proposed or think of myself. Sweet clover should be sown in the corn just as it is getting its last cultivation, in front of the cultivator. This can be done with hand seeder and it may be that the best and quickest way is to take a flat-bottomed sled that will pass between the rows nicely. Hitch a trusty horse to same or have a driver assist you. Ride on this sled facing back, for experience tells me that this is proper, for the blades of the corn catch and draw in the seeder and you have to stop and shut off business quite often if you attempt to walk or go with face forward. You will get to sow but a short distance on either side as the foliage will stop the seed in their flight. To sit on a low box so as to be down below as many blades as possible will be the best way. Riding a trusty horse and sowing over the tops of corn is another way, but there might be a partial skip where the horse is in the row; however, it might not amount to much, for part of the seed will go out in front of the horse's head and light at proper places. If the horse is ridden, it becomes necessary to cover its ears or seed will lodge in them and cause trouble.

My uncle used to sow rye in corn, broadcast, by riding a horse, and as we are all, to a certain extent, indebted to others for their successes or failures, and all may profit from same, it is with this spirit that I write some of my own ideas and some that come to me second handed. If they come third handed to any one and bring them value, I will be glad.

Now this newly-sown sweet clover, if good seed, will soon come up and make you proud of what you have done. Do your part to protect it until it is ready to turn under. I think the most suitable and sure way is to husk the corn row by row so that the wagon and team straddle every row, breaking down the stalks evenly all over the field. These stalks will keep the winter winds up over and not down in contact with this young growth, and it will also keep the snow more closely to where it hits the earth and not let it drift deep in places and leave the ground exposed in other places.

Do not pasture off the stalks, but leave them to be cut up either with a stalk cutter or a heavy-weighted disk harrow. I am not sure but that the harrow is best, as it can be made to do double work, viz., cut the stalks and cut up a few inches of earth which will fit in nicely with this mixture of young clover and dry stalks, causing the proper change to come to both stalks and clover.

I believe treating a field in this manner will make it capable of producing two crops of corn without much damage to the land, but to follow with some other crop would possibly suit some better, so I will say, think and plan and then tell others.

I sowed corn extra late last year as an experiment. I cut the corn and left the sweet clover to get along as best it could. We did all our oat sowing and then came to this patch to finish, as we planned to sow oats in it and cut it as a mixture of clover and oats, but, to our astonishment, it ended one sided, for the clover came on so lively that there was but one or two little places that the oats ever headed out or got up six inches high. I have more growing for next year and am planning to sow lots more. I have great confidence in sweet clover.

Delaware Co., Ohio. M. D. B.

"THE EXPERIENCE MEETING" has been made a regular department and the co-operation of every Homestead reader is requested. Already the letters from farmers are pouring in, but more are wanted. Write us your experiences in any line of farm work, how you increased your yield, how you lessened your labors, how you added to the family comforts or pleasures. Your name will not be printed, if your say so, but sign your right name and give your address. "The Experience Meeting" will be the forum of the farmers of the grain belt. Send us a letter today.

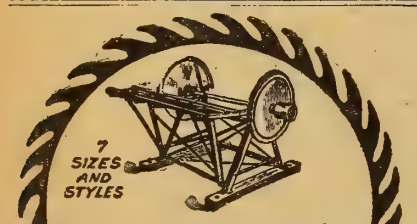
AND NOW WHAT ARE WE GOING TO DO?

To the Editor of The Homestead:

At this time of the year after everything has been checked from the fields we find we did not do as well as the previous year. We find on our lists a shortage of crops. We thought we had done everything to get good crops, but still we fell short at harvesting time. Some of the causes for poor crops are beyond our control, for instance, the elements of the weather. Other causes are under our control and we should determine at once what are the causes of our poor crops.

And now what are you going to do? Don't get discouraged if your crops have been poor. Success attends only on those who, after one setback, grit their teeth and start over again. Your failure in crops this year will be your success in crops next year providing you take your lesson to heart. The lesson failure teaches us is the best one we can get providing we make use of that failure. After we find out our mistake we must not make the same one again. You know that fire is hot, you perhaps found that out while still a child, and knowing it now you would not think of placing your hand on a red hot stove. Try to learn the lesson your failure in crops has in store for you the same as the one you learned when you burned yourself the first time.

We all know all we can do to get good crops are good soil with plenty of the right kind of plant food and good care. Your trouble might have been that you were trying to see how much land you could work. Do not try to work too much. Fewer acres well cared for will give better results than many acres only half cared for. I believe this to be one of the main reasons most of the old farmers will have, for they want to do too much and the result is nothing well done at all. Do a little at a time and do that well. Success comes through doing things right. The weather will be a drawback some years, but it is the man behind the cultivator and the conditions of the soil that play the most important part. Tone up your land, plant no more than you can do justice to with your cultivator and then see how your crops check in at the next harvest. F. A. Kuhn.



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FARM FURROWS
TURNED BY A PRACTICAL FARMER

One of the most inconsistent men I ever knew was a loud talking skeptic of the Bible and of religion who was an earnest believer in every word of a certain almanac, and who drank gallons of patent medicine with the implicit faith of a little child.

Plowing and breaking in December is rather unusual with us, but this open style of winter made it possible this year and a great many took advantage of it.

The Scriptures say, "Whatsoever thy hand findeth to do, do it with thy might; not "Whomsoever."

Truth usually wears such plain clothes that a whole lot of people refuse to receive it when it knocks at the doors of their minds.

Some of the "old timers" tell us that plowing stalk fields late in the fall will result in a weedy field the next season. This may or it may not be true, but they will have their "I told you so" in working order next year whether the fields are very weedy or not.

Some folks can't bear the smallest sort of a cross without acting as cross as a sore-headed bear.

It would be too bad to end the journey at the poor farm after traveling a good part of the way in a touring car bought with a mortgage on a nice little farm.

It is a pretty good thing to remember that no boy ever thought more highly of his father for having heard him use profane language.

A great many of our wants are only hankers.

The man who keeps improving his farm as the years go by is always one whose mind keeps growing, and that is about the richest harvest to be gathered in this life.

Many a farmer who is careful never to overwork a horse fails to take proper care that the load upon the shoulders of the mother of his children is not greater than she ought to bear.

The right time to start the tank heater is before the tank is full of ice. It takes a little extra work and some fuel, but the satisfaction of seeing the horse and cattle drink their fill will pay for both. The increase in butter and beef is extra.

The boomer's prospectus of a distant country never paints the drawbacks.

The man should keep his troubles, like his pigs, in his own pen, and not allow them to bother anybody else; but his pleasures, like the flowers in his garden, should yield their fragrance for every one who passes by.

Now is a good time to observe whether the clover hay was cut at the right time or not. If the stalks are bare of leaves the hay was cut too late and is very little better than corn stalks.

Earth floors are the best for all kinds of stock if they can be kept clean. Cement floors are easy to keep clean and are all right if plenty of bedding is used. It seems that everything lacks an "if" of being a perfect barn floor.

The man who is the least worthy to be heard is the one who usually pitches his voice the highest, his wisdom running to sound rather than to sense.

When some farmers hire a hand they seem to think that it is a part of his business to be filled up with an account of all the faults of every other hired man they ever had on the place.

There are fewer corn shocks standing in the fields this fall than in former years. The silo and the shredder are the cause of part of this, and more farmers are stacking their corn. This is the kind of farming that makes high-priced land.

The fellow who loves to give advice generally wants to be just a signboard to stand still and let others do the going.

Our roads were quite smooth when the ground froze this year, but would have been still smoother if they had been dragged once or twice. Less tall and more dragging will make better earth roads. Almost any good thing can be talked to death.

When the landlord shows no interest in his renter farther than to receive the rent when it falls due he may as well expect the renter to skin every cent out of the farm he possibly can. The landlord and the renter should be good friends to each other. It is to their mutual interests financially, and it makes for a longer tenancy, which is best for them socially, and for all the interests of the entire neighborhood. One can hardly imagine anything more disturbing and detrimental to the rural community than a constantly-shifting tenantry.

Before snow comes is the right time to see if the small bridges and culverts along the farm have become clogged with earth or rubbish. They may need to be in working order early next spring.

Honesty always pays. Some folks seem to be mighty slow in finding it out. Last year I bought several barrels of New York apples. In every barrel the biggest and best were packed on top; in the bottom were a lot of inferior ones. This year I will buy no New York apples, but will purchase western fruit picked in boxes according to standard and with the grower's name stamped on the box. Those eastern folks will have still more abandoned farms to complain of if they don't do better.

The crow has a price of 10 cents on his head in our county at the present time. Is it possible that the crow is as black as he is painted?

I think farm folks do not do as much mean gossiping as they used to. They are getting bigger and broader all the time. There is more intelligence among them, their interests are wider, there is less of jealousy and spite, and the feeling between neighbors is more generous and friendly. This is a splendid sign of progress. The world is too big and good to be spoiled by littleness.

It is now claimed that the packers have a corner on the egg market, hence the high price of eggs. Perhaps they have, but I do know that few hens are laying now, and it is likely this has something to do with the egg shortage.

Mrs. Furrows likes fall plowing for the early garden but spring plowing for the late, main garden. She says spring plowing stands dry weather better and early stuff starts off better on fall plowing.

Walking has become almost a lost art. The pony, bicycle or motorcycle furnishes the youth a means of saving his legs, even if he is to go but a few rods. When I was a boy all youngsters had to run errands afoot.

Farming may have been unprofitable the past year, but I have it in my head that the city man is not going to be as prosperous during the next twenty-four months as he might be. The effect of our short crops is going to reach him during this time.

The Experience column is very interesting and should and could be made permanent if more "ordinary farmers" would tell of their success and failures. Just at present it would be interesting to hear from those who have tried cutting up sweet corn or fodder corn for winter feed. Was it better or not as good as field corn?

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Space does not permit us to give you the details of the final triumph here. Write for a Jeffery Circle. It tells about the light monobloc motor that drives this car. Twenty miles an hour in 7 seconds—40 miles an hour on second speed in 20 seconds and in fifty-five seconds 50 miles.

This motor is larger than that used in 52 out of 86 cars exhibited at the Paris Show this year. You will learn that vanadium steel and materials used heretofore only in very expensive cars are used in The Jeffery and that the U. S. L. electric starter used in this car costs more than any other starter.

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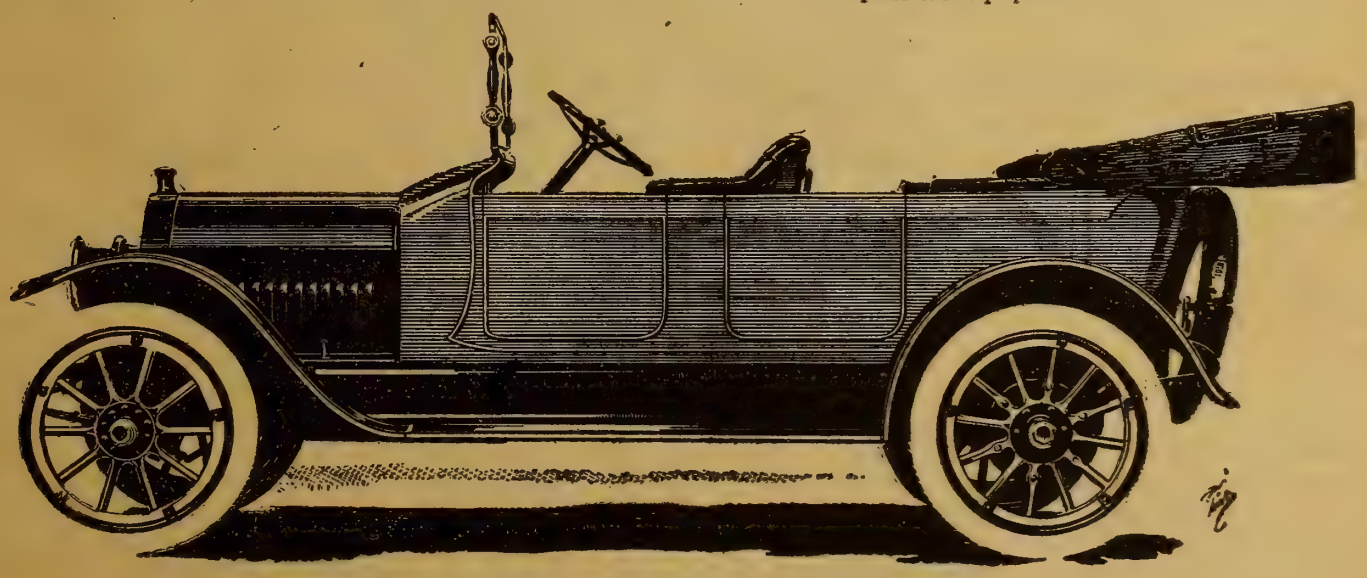

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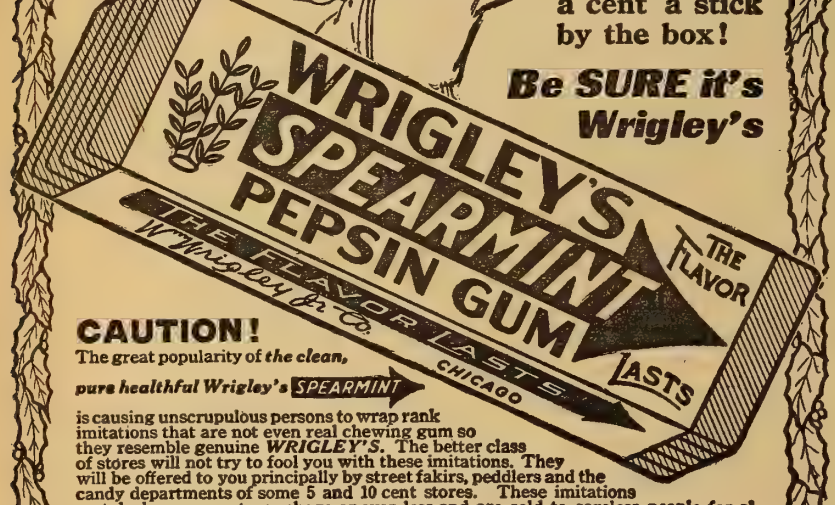

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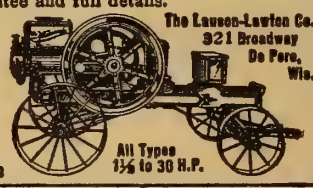

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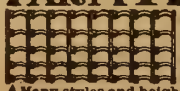

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CURRENT EVENTS

PRESIDENT WILSON'S plan for presidential primaries and a ratifying convention is meeting with the hearty approval not only of the rank and file of the members of his party, but of the leaders as well. Washington dispatches state that members of both houses of congress are enthusiastic over the proposition, while the anticipated opposition from southern democrats (because of the practical enfranchisement of the negro by such procedure) has failed to materialize. One of the strongest endorsements came from Senator Vardaman, of Mississippi, who glories in the reputation of being the most rabid anti-negro member of either house of congress. It is confidently expected that the president's plan will be made a party measure and that little time will be lost in passing the necessary laws. The promulgation of the plan came as a surprise, inasmuch as the president had never openly expressed his views in such a determined manner. The plan provides for direct nomination for president and vice-president and a ratifying convention consisting not of delegates elected for this purpose, but of party candidates, hold-over members of the senate and the presidential nominees, who shall agree upon the platform upon which the campaign is to be fought out. The passage of a primary law by congress is all that is necessary to abolish the old convention system, which has been in existence since the early days of the republic.

THE Mexican congress has nullified the recent farcical presidential election and ordered another one held next July. In the meantime, however, General Huerta is continued in office as provisional president, unless the force of foreign influence becomes too strong or the financial needs too great, when he will step down and out. It will be recalled that the Mexican voters stayed away from the polls at the recent election, inasmuch as Huerta dominated all the precincts and his opponents were afraid to vote. The result was a fiasco. Out of 14,225 voting precincts returns were recei ed from only 407, while the total number of votes cast fell far below the number required by the Mexican constitution to make an election legal. General Huerta declared himself elected, however, and would not have allowed the returns to have been questioned had it not been for the firm stand of President Wilson, who declared to the world that the election was a farce and who promised trouble to Mexico if such a fiasco were given legal credence. With rebel successes in the north of Mexico, the federal army practically bankrupt and the federal troops deserting by the thousands because of no pay for months, the Huerta cause in Mexico is becoming lower every day.

POSSIBLY as a direct result of the Mexican situation, the lower house of congress has passed what is known as the Hay army bill, which puts volunteer forces on an equal footing with the regular army. The bill provides that whenever in the president's judgment war is imminent or actually exists, he may organize volunteer regiments for war purposes. The men instead of enlisting for a short period, as in the past, would enlist for the war. The president would appoint all the officers, not more than four regular officers to be appointed to any one volunteer regiment. The volunteer forces thus named would supplement the existing national guard or militia, with which the bill would not in any manner interfere. In discussing the bill before it was passed Congressman Mann, republican floor leader, declared that it had been made necessary by reason of the Mexican situation and that conditions were analogous with those which existed when congress unanimously put $50,000,000 in President McKinley's hands when the Spanish situation was most critical. Washington dispatches declare that never before have the army and navy been in such good condition or so ready for action on a short notice. The Mexican situation is not as critical as it was a few weeks ago. This government is evidently prepared for any emergency that may arise, however.

SECRETARY HOUSTON, of the department of agriculture, is not convinced that a system of farm-loan banks similar to those in existence in Europe is necessary or even desired in this country. In his annual message, recently submitted to congress, the secretary states that he does not believe that there is need for unique or special legislation, or for legislation which shall aim to give the farmer credit on easier terms than other members of society. What is needed, in his opinion, is the creation of conditions and machinery which shall enable him, on similar credit foundations, to secure money at the same rates as those that prevail for other classes and for other sections. "Even though the problem of how the farmer can best sell his produce and can improve the conditions under which he can secure the necessary capital were solved, there would still remain vital things to be accomplished before rural life can be made fully efficient, profitable, healthful, pleasurable and attractive, and before a larger disposition to remain on the farm develops. Good roads are prerequisite for better marketing, for better schools, and for more comfortable rural living. Better sanitation and hygiene in the home, in the school, and in the community are just as vital for the rural community as for the urban," says the report.

A DELEGATION of woman suffragists, headed by Dr. Anna Howard Shaw, president of the national association, was received by President Wilson, in his private office, during the past week. The suffragists desired one of three things: a special message urging congress to adopt an amendment to the federal constitution, to be submitted to the states, that would give women the right to vote throughout the country; a reference to such a procedure in any special message the president might send; or the use of his influence to obtain the appointment of a standing committee in the lower house to consider the subject as the senate has done. The president heard the suffragists carefully and at the conclusion of the meeting announced that he was favorable to the appointment of the desired committee in the lower house, but that he would neither send the special message desired nor make any reference to the subject in any message, inasmuch as it was his rule not to urge upon congress anything which had not been the subject of "organic consideration" by the democratic party, of which he considered himself the spokesman. In other words, the president will not foist suffrage upon the party, but when it comes to be a party issue he will give his personal views and discuss it as the leader of the party. The suffragist visitors were divided in opinion as to whether the visit was a success or a failure, although if the desired committee is secured in the lower house a step in advance will have been taken. President Wilson was not asked for his personal views on suffrage and did not give them. He is not an ardent enthusiast on the subject, however.

ELIHU ROOT, former secretary of state and now United States senator from New York, has been awarded the annual Nobel peace prize of the value of about $40,000. The award is made because of Senator Root's efforts in the pacification of Cuba and the Philippines and the settlement of the difficulties between the United States and Japan in regard to the public school matter in California. Senator Root is the second American to be thus highly honored, a previous Nobel prize having been awarded Theodore Roosevelt for his efforts in bringing about peace between Russia and Japan.

LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

HIRED MAN LAW.

Controversies about wages frequently arise between farmers and their hired men when the latter are discharged or quit work before the expiration of the time for which they were employed. Sometimes a man who is hired to do certain specified work, or work for a certain period of time for fixed wages, quits his job without good and sufficient reasons and the question then arises, what compensation, if any, can he recover by law from his employer, for the work he has actually done? There is some conflict of authority in the decisions of the courts upon this subject, but the weight of authority is to the effect that in such case the hired man can recover the value of the services which he actually rendered, deducting from this amount any damages which his employer has sustained by reason of his failure to complete the services which he was hired to perform. Sickness or death of an employe is considered by the law to be the act of God and constitutes good excuse for delay, or even for non-performance of a contract for personal services. An employe who is prevented by sickness from completing services according to his contract can recover the actual value of the services which he has performed under the contract and if the completion of his work is prevented by his death his executor or administrator can recover the value of the services actually performed by him.

Where a minor is employed to work and quits his job before his contract of employment expires he can, nevertheless, recover full wages for the time he actually worked, without any deductions, although his failure to fully perform his contract is without sufficient excuse. This doctrine is based upon the ground that a minor is legally incapable of making a binding contract, and may repudiate the same at any time.

Where a hired man is discharged for good reasons before the expiration of the time for which he was employed, there is also conflict of authority as to his right to recover wages. Some courts hold that he cannot recover unpaid wages up to the time of his discharge. The general rule, however, seems to be that he can recover the value of the services he has actually performed, deducting therefrom the damages caused by the conduct which was the cause of his discharge. This doctrine places the employer on the same level with the hired man who quits his job without cause. Where a hired man is discharged before the expiration of the time agreed upon, without good and sufficient reasons, his employer is liable to him for breach of contract and the hired man can recover his wages for the entire time by the contract, subject, however, to this qualification, viz:—if the employer can show that the hired man, after he was discharged and during the time covered by the contract, actually earned or received money from others for his services, or that during said time, he might have earned money from others for his services, or that during said time, he might have earned money in a business or vocation of similar character, then the amount of such actual or possible earnings would be deducted from his claim against his employer.

Where a hired man refuses to continue work according to his contract, a court will not specifically enforce such contract on behalf of the employer. The reason of this rule is based upon the physical impossibility of enforcing such an order or decree.

LAW QUESTIONS CONSIDERED.

CANCELING OIL AND GAS LEASE.

Mr. H. J. G., Newkirk, Okla.—A leased a certain tract of land to B, for the purpose of boring for oil and gas. The lease is dated June 15, 1913, and to remain in force for two years, or so long as oil or gas is produced in paying quantities. The lease provides that B must begin operations within sixty days, and complete a well in six months, and at the expiration of the six months, shall pay A one dollar per acre, per year. B did not begin operations within sixty days, and did not complete a well within six months, and has paid A no money, and has made no move whatever to comply with the lease, which has been recorded. B refuses to cancel the lease or release it. (1) Can A lease the land to C, without obtaining release of B's lease? (2) What steps should A take to get B's lease taken from the record?

Answer.—(1) He cannot. (2) A should bring an action in court to have the lease canceled and set aside on the ground that B has failed to comply with its terms and conditions. After obtaining a decree canceling the lease, A may lease the land to any one.

HOMESTEAD AND DOWER.

A Subscriber, Keithsburg, Ill.—Under the laws of Illinois can a husband be deprived of his homestead and dower rights, by the will or deed of his wife?

Answer.—He cannot. Where either husband or wife wills all his or her property away, leaving none to the other, such other may renounce the provisions of the will and claim what the law of the state provides in such case. The law of Illinois allows a husband or wife the homestead so long as he or she shall occupy the same, and dower in the real estate of the deceased.

HORSE DEAL DAMAGES.

A Subscriber, South English, Iowa.—A traded a mare and $25 in cash to B, for two horses, B did not misrepresent his horses, but A guaranteed his mare to be sound, and she was unsound, by reason of which B was damaged to the extent of seventy-five or one hundred dollars. There was no witness to the trade. Can B recover damages from A and if so how shall he proceed to do so?

Answer.—B can sue A for damages for the misrepresentation of the condition of the mare, and recover judgment for whatever amount he can prove—the difference between what the mare is actually worth and what she would have been worth had she been as represented. B's difficulty will be in making the proof in court, there being no witnesses except the two parties to the deal—one man's word against the other.

HOG TIGHT FENCE IN KANSAS.

A Subscriber, Erie, Kansas.—A and B own adjoining farms in Kansas, A has made his part of the partition fence hog tight, by twenty-six-inch hog wire, and three barbed wires on top, can he compel B to make his part hog tight and if so how will he proceed?

Answer.—He cannot do so. The law of Kansas prescribes seven or eight kinds of partition fences, each one of which is declared to be a lawful fence and probably not any of them will turn hogs. See Chapter 41, General Statutes of Kansas, 1909, page 842. But, general section, 3756, same chapter, page 847 provides that when an owner of land desires to have any part of a partition fence constructed or maintained by an adjoining owner made hog tight, he may attach to the same in a secure and workmanlike manner woven wire at least two feet high, so as to prevent hogs from getting through.

WATERWORKS—PETITION—VOTE.

A Taxpayer, Carson, Iowa.—(1) In getting up a petition to vote for waterworks, what per cent of the voters at the previous municipal election is required to sign the petition? (2) In order to establish waterworks, the law requires a majority of legal electors voting thereon, to vote in favor of the same, at a general or city election, or at one specially called for that purpose.—or the mayor shall submit such question to such vote upon the petition of twenty-five property owners of each ward in the city, or fifty property owners of any incorporated town. Women are allowed to vote at election for waterworks, but not at a general election. In counting a majority on waterworks question, are women votes included?

Answer.—(1) No per cent at all; but twenty-five property owners in each ward of a city or fifty property owners in an incorporated town, as stated in second question above. (2) Whether the question of waterworks be submitted at a general or city election, or a special election, women can vote on such question, and their votes must be counted in determining a majority for waterworks.

FORECLOSURE OF MORTGAGE—DEFICIENCY.

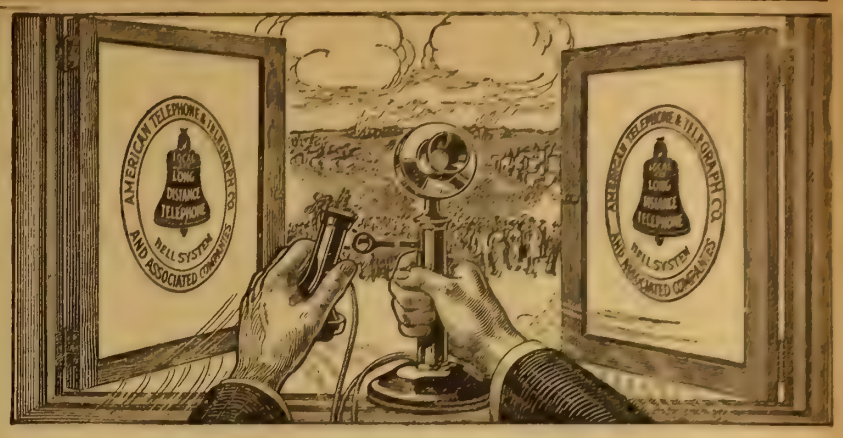
A Subscriber, Friend, Neb.—A mortgaged his farm in South Dakota to B, for five years. A has failed to pay interest and taxes. (1) Can B foreclose the mortgage before the expiration of the five years,, (2) In case the mortgage should be foreclosed and the land sold, and not being enough to pay off the mortgage debt, could B get judgment for the deficiency? (3) Could A avoid the liability by moving across the line to another state?

Answer.—(1) It depends entirely upon the terms of the mortgage. If the mortgage provides that foreclosure can be made upon failure to pay taxes or interest, then it can be done. (2) If the land is sold on foreclosure, of the mortgage and the proceeds are not sufficient to pay the debt, B can obtain judgment for such deficiency. (3) A cannot avoid legal liability by moving to another state.

TIGHT PARTITION FENCE.

Mr. A. C. Woodard, Decatur City, Iowa.—I never use my land for hogs or sheep, but my neighbor who owns adjoining land says that the law requires me to make my part of the partition fence hog tight. What is the law of Iowa on the subject?

Answer.—The law provides that all partition fences may be made tight by the party desiring it and when his portion is so completed and securely fastened to good substantial posts, set firmly in the ground not more than twenty feet apart, the adjoining property owner shall construct his portion in a like manner. Therefore, if your neighbor has made his part of the partition fence hog tight, he can compel you to do likewise, even though you do not use your land for hogs or sheep.



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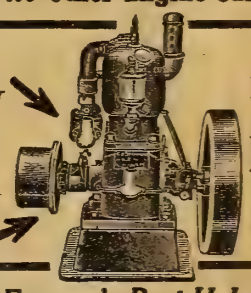

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CORN-BELT BEEF PRODUCERS

A Meeting of Great Interest—Vital Subjects Discussed by Representative Farmers and Beef Producers—The Future of the Cattle Business

AN EXCELLENT program was carried out last week by the Corn-Belt Meat Producers' Association in its annual meeting held in Des Moines. Although the gathering was not so large as has been the case in former years, yet much enthusiasm was shown over the future usefulness of the organization.

President Sykes' Annual Address.

In his annual address President A. Sykes called attention to the fact that the association has had a quiet year. At the beginning of the year considerable time was spent by the executive committee before the Iowa house and senate and something was accomplished in the way of safeguarding the interests of Iowa stockmen. President Sykes called attention to the representation of the association before the finance committee of the United States senate when that committee was considering the Underwood bill. This bill was deemed unfair to the farmer and stockman, hence the advisability of making some effort to defeat that part of it which was of special interest to stockmen. While for a time it seemed as if this committee had accomplished something in the way of bringing about only a reduction of the present tariff on livestock, dressed meats and agricultural products, yet the sentiment in the East became so strong in favor of placing these commodities on the free list that the president finally yielded to this demand. The Corn-Belt Meat Producers' Association, however, through this committee has placed itself on record as opposing the placing of these commodities on the free list. As it now stands President Sykes considers the bill illogical, as it discriminates against the agricultural and livestock interests.

During the year an effort was made by the officers of the association to improve shipping facilities for sheep. It was found that the Iowa commission and likewise that the interstate commerce commission lacked power to require railroads to install such facilities. The matter was then taken up with the superintendents of the different lines and some of the roads as the result of this agitation have installed double-deck chutes. President Sykes called attention to the fact that a 75-per-cent rate on stocker and feeder cattle and on sheep is now in force, although many stockmen are paying full rates on account of not being familiar with this ruling. The owner, if he obtains the benefit of this cut in freight, may be required to sign a statement to the effect that none of the shipment is intended for immediate slaughter. Efforts to improve caboose accommodations for stockmen has met with some degree of success, although it has been worked out entirely through superintendents of transportation, as nothing could be accomplished either by the state railroad commission or interstate commerce commission. An effort has been made by the association to bring about the enactment of a federal statute compelling railroads to pay for the actual value of all animals killed in transit instead of the amount specified in the contract, namely, for horses and mules, $100; steers, $50; cows, $30; swine, $10, and sheep, $3. The bill is in the hands of Senator Cummins and is intended to prevent common carriers from limiting their liability by contract.

Feeding Texas Calves.

Mr. James Brockway, of Letts, Iowa, presented some interesting data on the above subject. He first called attention to the fact that in recent years cattle feeding has become more and more a matter of speculation, the feeder not being able to determine in advance whether he will make a profit or suffer a loss. Of late years the price of feeders and especially of heavy feeders has been so near the price of the finished animal as to make the profit very small or to wipe it out altogether. "This element of speculation must be eliminated in the future. There are certain factors in the meat-making business that are almost fixed, namely, high-priced labor and high-priced feed. In every manufacturing business there comes a time when the margin of profits grows narrower and the waste products must be utilized. There was a time when every cotton gin had its pile of decomposing cotton seed, and the linseed oil manufacturer did not know what to do with the oil cake. In an early day the backbones and ribs of hogs slaughtered at an eastern Iowa packing plant were hauled out and dumped on the ice of the Mississippi river. As a small boy I can remember how the fishing in the Iowa river was for a time spoiled because a glucose factory 140 miles up stream had dumped its waste products in the river. These same by-products are now a substantial source of the revenues of these industries. There are today just as great wastes going on upon the corn-belt farm as any of those just mentioned. For years we farmers have been wasting 40 per cent of the corn crop. Not many manufacturing concerns could stand that per cent of loss. The problem before the corn-belt feeder today is to use this by-product.

"Beefmaking will become more and more a matter of production. We must learn to feed more roughness and less corn; a well-balanced ration, but not a ration wastefully rich in grain. We are now and we will be forced to make beef on a narrower margin of profit and it is up to us to utilize our by-products. I believe that they can best be used by developing a calf into a first-class baby beef.

"But where is the raw material to come from? Probably the way would be to raise the calves that you expect to feed. But the average farmer can not well do this. If one tries to pick them up at home or if one goes to the market for them they will nearly always be found to be a very miscellaneous lot and with no similarity of breeding. Many times a calf will look well enough and yet that same calf will be from a cold-blooded old skate of a cow, and it's a sure thing that the longer you keep that calf the more he will come to look like the cow. For that reason it is very important that the feeder know what kind of breeding is back of his calves.

"For a number of years we have been going to the great ranges of Texas to buy our feeding calves. Nearly all the Texas herds are well bred now. Most of them are Herefords. It is not at all difficult to buy calves that show the very best of breeding. Today the ranchman shows a willingness to sell his calves at weaning time. But by the first of September he is making up his mind as to what he will do with his calf crop. If he is to carry them over he must be making the necessary arrangements for feed and grass. If he decides to sell them that is the time he is looking for a buyer's name on a contract. The feeder who goes to the range should be there by September at the latest. Contracts are usually made for October or November deliveries. About November first is the usual time. Of course, calves can be bought at this time, but the price is invariably higher and the price of those offered for sale is not so good. Calves bought on the range when landed in the feed lots will usually cost just about the same or a little more than calves bought at the Missouri river markets. But the quality and the breeding are much better. In most of the Texas herds a certain line breeding exists. The calf's mother, grandmother and great-grandmother probably all wore the same brand, and when the calves are fed out they will develop and will look alike. Buy as big a calf as you can, the bigger and stronger the calf the better he will winter, and, of course, get the best quality that you can. A dollar or two on the calf may mean ten when he goes to market. If you can, go to the range for the calves yourself; if you can't do this, give an order to some responsible party who does go. There are plenty of reliable feeders who buy calves on the range every year. If there is no other way give an order to your commission firm and have him watch for a bunch of calves all from the same herd. In this case you have the disadvantage of knowing nothing about the cows and bulls that the calves are from. If I could be assured that the condition and size of the calves are right I would give more to see the cows and the bulls than to see the calves themselves.

"From Texas to Iowa is a long trip on a stock train. It will usually require about five days, and the calves taken from their mothers will neither eat nor drink much at the feeding stations and will reach home mighty tired and hungry. A good pasture with plenty of water is a fine place for them to rest up, but they will need a stronger feed than this, and if left on the grass will begin to shrink at once. We have also had good success putting them directly into the feed lots.

"Corn silage is the basis of our ration and this is the feed that makes cheap gains possible. As long as they are in the feed lots they are given all of this that they will eat. They will relish some dry feed with the silage and we usually feed some corn fodder or straw. For the first month or so we feed only corn fodder, silage and cotton-seed meal—about a pound or a pound and a quarter per head a day of the meal. Don't fail to provide this or some other high protein feed to balance this excessive corn ration. Clover or alfalfa hay would give a better variety, but I doubt if they could make any cheaper gains.

"About the first of the year we begin feeding five or six pounds of crushed corn per day. Be sure that they are eating all the silage that they will clean up, for remember it is the surplus food that the animal eats that makes the gains. It is the assimilated food that is not needed by our calf to keep up animal heat and growth that is laid away in the fat that makes the finish. As our ration is not a rich ration it is highly important that the calf gets all that he can use of it.

"The above ration is continued on the heifers, which are fed in separate yards until they go to market, which is any time from May until July. We prefer not to put the heifers on grass at all. The steers will do more growing than the heifers. The amount of gain will be practically the same, but the heifers will obtain that finish or fat covering wanted by the butcher at an earlier age than the steer will. The steers are put on grass as soon as the ground in the pastures has settled in the spring, and the same silage and grain ration is continued. As the grass improves, the silage may be decreased until by the time grass is good the silage is discontinued. At the same time that the silage ration is decreased the grain ration is raised, so that by the time the silage is discontinued the grain is practically doubled. About ten or twelve pounds of corn on good pasture is all we feed until five or six weeks before marketing. Then we give them all the corn they will eat. Cotton-seed meal may be gradually decreased and finally discontinued after going on grass.

"The most critical period of feeding is this time of going from silage to grass. Professor Curtiss has often told us that any changing period is a losing period. Therefore it is essential that we make as radical a change as this very slowly, and without sudden changing of the ration. Remember that silage is ever so much better and stronger feed than the soft new grass. One has all the sunshine of a long summer stored up in it and the other has only that of a few soft, warm days. Be sure to let the silage lap well over a period of feeding on the grass.

"Our feeding equipment and methods are very simple. We have only sheds with dirt floors for shelter. About one-third of the south side is open for doors. All shock corn and straw are fed in racks inside the sheds and the waste stalks will keep the shed bedded. Plenty of clean water protected from heavy freezing is also inside the sheds. For fifty feet in front of the sheds and running their entire length is a concrete feeding floor and a concrete driveway extends to the silos that stand at the end of each shed. The silage, corn and cotton-seed meal are fed in bunks twelve inches deep that set on the feeding floor. The lots and sheds are subdivided so as not to allow too many calves together and make it possible to divide them according to size so that the stronger calves will not rob the smaller ones. We feed silage, corn fodder and cotton-seed meal in the morning, another feed of silage after dinner and the small feed of corn just before night. Much better results are had by making the feed of grain at night both on grass and with silage. If fed at this time it is retained longer by the animal and I believe that it is digested better. If the grain is fed in the morning and the coarse feed fed later there is a tendency for the corn to be crowded through the animal and not thoroughly digested. Feeding the corn at this time of the day is to our calf like bringing on the plum pudding after a turkey dinner; it is really not needed so far as the appetite is concerned, but nevertheless it is highly appreciated. Feeding corn at this time of the day insures that the animal is eating the surplus feed that will produce the quick gains and finish.

"I do not advocate the feeding of Texas calves as a get-rich-quick scheme. I do recommend it as a means of marketing the produce of an Iowa farm. When big cattle are making money, as they do sometimes, they may do better than the calves, but one year with another, I believe that baby

(Continued on page 14.)

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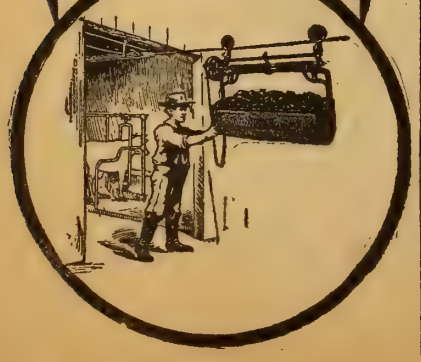

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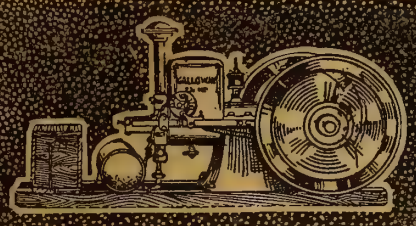

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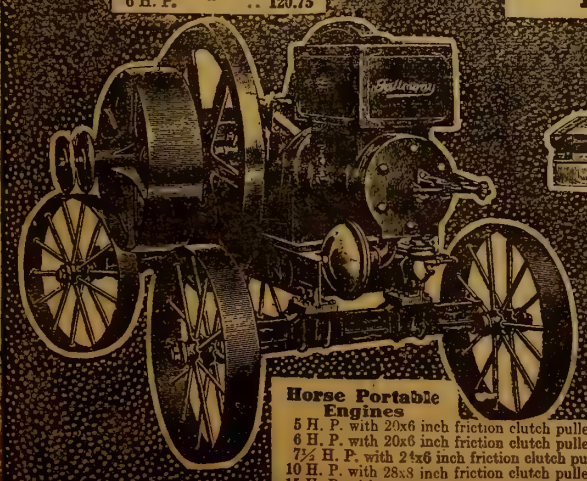

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grandfather used to say. A big Florida fruit grower remarked that he had to go to California to learn that he had been wrong for twenty years. The potato growers of Maine get hints from Colorado; the apple men learn from the orange growers how to coöperate. Here's where the national-farm-weekly idea comes in. If you want to travel north, east, south, west and get your long-distance lessons in money-making methods without spending carfare, look beyond the end of your nose and get the national-farm-weekly habit. The big National Farm Paper is *The Country Gentleman.*

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CORN-BELT BEEF PRODUCERS.

(Continued from page 12.)

beef is a surer proposition. One is not so likely to find the lean years that come so often to the feeders of heavy cattle. With this manner of feeding we have not found it difficult to make 350 to 400-pound calves 700 to 800 by July and by September the steers go better than 900. In six or seven months we make them double their weight and make as much gain per head as some feeders get on heavy cattle in that time.

"As long as the Texas calf can be bought at a price that is less than it would cost to produce that same calf on our good Iowa land I believe that it will pay to go to Texas after him. If he costs much above that price we have the same element of speculation that we have now in feeding the big cattle, and in this case each man must use his own judgment. I believe that the time is rapidly approaching when we will raise more good beef calves in the corn belt. I realize that every one cannot feed calves, nor should they, and I may well add nor will they. I do not know of any country where a calf can be produced cheaper than in Texas and I do not know of any country where that calf can be developed better than in the corn belt."

Cattle Feeding for Profit.

Capt. W. H. A. Smith, of Sioux City, one of the most successful feeders in the corn belt, discussed the above subject in a most interesting way. According to Captain Smith in cattle feeding and cattle production we have first "the man who feeds for glory, second, the man who feeds for money, and third, the man who feeds for neither glory nor money. I am interested only in the second man. No man can make a success of any business unless he has a certain goal he is working for, and farming does not differ from any other business in this respect. My one idea all the time is to build up the farm and in feeding cattle I do not figure on the $2.00 advance I hope to get, but on the four tons extra silage and the one ton extra of alfalfa I am sure to get, for the larger the crops are, the smaller the margin necessary to enable me to market my crops at a profit and this is my goal, economy of production. I learned long ago that the sure profit from a farm was in utilizing the waste and that cattle feeding was one way of doing this. We have, in my part of the country, dozens of men, smart commission and cattle dealers, who have tried to feed cattle, arguing that they were better judges than the average farmer, that they could buy and sell their cattle cheaper and yet they all, without exception, eventually peter out. Why? Because they figure on making a profit above the market price of grain, feed and labor, whereas, I figure on selling at the market price and my extra profit comes in producing larger crops from the manure. If, therefore, you start out with this idea firmly worked out in your mind, the idea that you feed cattle, not to make big gains, but to utilize the waste, a success is bound to follow if you go at things in a businesslike manner. But to utilize this waste you must have an outfit or tools to work with.

"There are some things any farmer is justified in going in debt for and I put first, make the farm, hog and sheep tight, then get a silo and grow alfalfa or clover. These three things are absolutely essential in the economical production of beef, pork or mutton. Take first the fence; I had been for years very much dissatisfied with the dreadful waste of liquid manure through the rains and the dreadful state of my feed yards in spring. Last spring we had lots of rain and my cattle for weeks did not have a dry spot to lie down on and made a miserable gain. I made up my mind then that a change was due. Why should cattle be confined in a small feed yard for six to eight months and I have to haul out all the manure with 50 per cent wasted through rain? How does it figure out on an interest basis? It takes a round $250 to make a quarter section hog tight, even allowing 12 per cent interest on the fence; this means $30 a year. Could I make that fence pay good interest? During the month of November, I had 250 head of two-year-old steers and 240 hogs fed fodder on 15 acres; on December 15th I will move the cattle on another fifteen acres. These cattle are on feed and are fed their grain and oil meal in the feed yard in the morning then turned out on the fifteen acres with fodder until four p. m., at which time they drift back to the feed yard and find sheaf oats waiting them in the racks. Sixty-seven lambs left $110 for the waste they picked up. Twenty old brood sows have been living on the alfalfa and around the alfalfa stacks. Since September, 220 hogs cleaned up ten acres of corn and cleaned up all the ground from which the silo had been filled. Did the fence around that quarter pay interest this year? Why, it will pay cost twice over. This is what the fence is doing in the fall and winter. What do you suppose it paid this summer when the hogs ran on the alfalfa?

"I spent twenty years of my life at sea and had command of a ship twelve years and many a man asks me how on earth a man brought up at sea can take to farming and yet, when you think of it, how much of my sea life is useful or the farm. In the days of sailing ships we were out of sight of land four months and we had a certain allowance of provisions to last us the trip. No running around to the corner grocery if we ran short; we had to make ends meet and so there was no guesswork. It taught us to use the scales. For weeks before we arrived off port, I would figure for every possible emergency that might arise, for, although a large sailing ship is all right in the open sea, she is a ticklish proposition in narrow waters. I would figure on being caught on a lee shore with a gale of wind, being becalmed by head winds and dirty weather. I learned to figure before a thing happened and not after. We learned at sea how to handle men. We figure a man hired for labor furnishes labor, but not brains, so we do not make the mistake so many Iowa farmers make in thinking they can hire labor and brains for $30 a month. The boss must furnish the brains. We learned that it took 400 tons of coal to make a steamship go twenty miles an hour, but it took 600 tons to make her go twenty-one. In other words whenever you work under forced draft it costs too much money. The same will apply to cattle feeding, for whenever a man attempts to put two and one-half to three pounds per day on a steer, he is working the steer under forced draft and the last one-half pound gain eats up all the profit. We have to get just as far away as we can from feeding for speculation and big gains. The one idea should be in feeding cattle to utilize what is now practically waste to make beef from fodder, straw, silage, common stacks and simply add to these enough corn, clover, alfalfa or oil meal to make a balanced ration. This does not mean a big daily gain on cattle but an economical gain. Many of our agricultural papers are lamentably weak on the advice they give correspondents who write them on how to feed 1,000-pound steers. They invariably talk about feeding eighteen to twenty pounds of corn per day and about two and one-half to three pounds gain per day on a steer, entirely overlooking the fact that a class of men who write them for advice are mostly men who have never fed before and that this class of men should not be advised to make beef from corn with a little hay or roughness, but from roughness with a little corn or oil meal added, simply selling his crops and reducing his speculation, and, above all things, the cattle should be sold every time there is a profit, irrespective of whether they are fat or not.

"Keep in front of you all the time the idea that you do not want to speculate, you want to sell your crop at market price or better and from the manure raise a little larger crop next year. Play the game as a business and if you decide to do so, put a little study into it. This is an age of specialists and although there is just as much money made in feeding common cattle, provided they are bought as common cattle as there is in good cattle, you cannot do both. Take up one or the other and stay by it; every year will add to your knowledge. Notice I am talking about feeding common cattle, not raising them.

"There is a great deal of discussion at present as to whether it will pay to keep cows to raise calves on high-

priced land and I am not yet quite satisfied that it will pay to do so in quantities, but I know that there are thousands of farms in Iowa today where two or three cows on each farm could be kept from what is now absolute waste and that with a good community bull calves would, at fifteen months of age, leave a handsome profit. All our good breeds of cattle today come from certain communities staying by certain cattle. This is the history of Angus, Hereford, Jersey, etc. Here in Iowa at present, the types, breed and quality of cattle are, to say the least, mixed and it stands to reason that if a certain type of cattle were raised in a certain locality, farmers would never lack for buyers."

Modern Methods of Beef Production.

Prof. W. H. Pew, of the animal husbandry department of the Iowa Agricultural College, gave some facts and figures to show a shortage of beef, not only in the United States, but throughout the beef-producing countries of the world. There has been, for example, a decrease of nearly 60 per cent in the number of breeding beef cattle in the cattle-producing states west of the Mississippi river during the last twelve years. The population of the United States between two census dates increased 25 per cent, while the number of beef cattle decreased 30 per cent. In Iowa alone the decrease of population was 1 per cent, while the decrease in the number of beef cattle was 30 per cent. Professor Pew called special attention to the demonstration at the recent International which showed clearly the supremacy of baby beeves. Not only was the grand champion premium won by a yearling, but this supremacy was duplicated by every load of yearlings that had been well cared for. In this connection it should be remembered that younger cattle make more economic gains than the older cattle. This has been demonstrated over and over again in various feeding tests.

"The International Livestock Exposition has always stood as an educator for the beef cattleman," said Professor Pew. "Some of the lessons they should have learned from the performance of the 'baby beeves' might be summed up as follows: The finished yearling steer is, as mentioned above, the most profitable for the grower and feeder; second, that good blood is necessary for the greatest profit. A good steer can seldom be grown out of a poor calf; third, in order to be profitable a calf must be properly handled from birth; fourth, early-maturing qualities are absolutely necessary for the best results.

"For one to stand on the block and watch the yearling cattle sell, either prize winners or not, for prices from 2 cents to 3 cents per pound in advance of those brought by the heavier two and three-year-old cattle was sufficient proof that some of the older cattle might be well left out of the exposition premium list. I believe it has been proposed that the class for three-year-old cattle be dropped. There seems to be a very good reason for this. I dare say that every pound of gain put on these heavier cattle was done at considerable loss, while, on the other hand, the gains made by the younger cattle were no doubt profitable. I know of some loads of yearling cattle that did not pass the inspection of the 'sifting committee' which made gains for a period of nearly one year at a cost of 7½ cents to 8 cents per pound. Fairly accurate figures have been kept on their cost of gains.

"If our expositions are to remain as educational as they have in the past, I am convinced of the fact that two-year-old cattle might well be left from the single-steer prize list. No doubt some may argue that the steer herd would not look just right without the two year old, but I am looking at it strictly from the standpoint of an educational feature to the farmer and the breeder from the standpoint of profit. As perhaps most of you know, a two-year-old steer may be at least thirty-five months of age at the time of the International and at no time during the state fair season could he be more than four months younger. This means then that the two-year-old steer has been carried from the age of a junior yearling to a junior two year old. His most economical period of growth and gain was made up to the time he was a junior yearling. During the growth and gain of his two-year-old form, he, in most cases, made his gains at a loss."

The Care of the Breeding Herd.

"If 'baby beeves' are to be put onto the market at the earliest possible date they must have had their mother's milk up to weaning time. In order that this may be properly accomplished the mothers must have been properly fed and cared for. This is a big item in actual cost of production of the calf up to market time. Some men have figured that the cow can be maintained for the year on something like $20.00. If she has been maintained for this amount we will all agree that she has been very economically kept. I would rather place the cost of keep at $30.00 per year, or slightly above, this to include all items in connection with the cost of her keep. By the use of corn silage and some roughage throughout the winter season the cost of maintenance of the cow may be considerably reduced below the cost of keeping her under ordinary conditions. By this I mean her maintenance on high-priced hay and other feeds. At the college farm last year the cows were maintained throughout the winter time without grain on corn silage with a very small amount of other roughage. Some of these cows were suckling their own calves and some of them were dry. However, the cows that brought calves in the spring had strong ones, as the crop of last spring shows. As a matter of fact all of the cows went through the winter in very good condition at a cost very much less than had silage not been available. The same is being done again this winter. No producer of baby beef can do it entirely successful without the use of a silo or two."

Conditions as Seen in the Market.

Mr. C. O. Robinson, of Chicago, in discussing market conditions, called attention to the change that has taken place in the public taste during recent years as indicated by the kind of meat in demand. The big steer has actually gone begging during the last few weeks, a good illustration of this being found during the week of the International when well-finished, 1,900-pound steers sold for $8.40, whereas prime yearlings passed under the auctioneer's hammer at prices ranging from $10 to $13 per hundred pounds. In this connection, Mr. Robinson pointed out that not only are values lower on the big steer, but that it costs tremendously to make a pound of meat on the heavy animal and it is, therefore, a losing proposition under practically all circumstances. Mr. Robinson pointed out that in the very necessity of the case values go up when a particular kind of produce is scarce and this explains in part why certain types of cattle are high in price when they are scarce and relatively low when they are plentiful. The great majority of feeders are doing the same thing at the same time and it is the exceptional man who goes against the wishes of the crowd who actually gets the highest value for his produce.

The Hog-Cholera Situation.

Dr. W. B. Niles, who for many years has been carrying on hog-cholera investigation work, presented the status of the hog-cholera situation to the convention. He called attention to the fact that it is impossible to start the disease by any system of feeding whatever, as it can only come from the introduction of hog-cholera virus. This is introduced in various ways, it being spread most commonly by men going from farm to farm in their transactions with one another. Dr. Niles called special attention to the importance of refraining from the driving of vehicles onto any premises where there is hog cholera, and in turn, bringing this vehicle onto an uncontaminated farm. The spreading of the disease after it once enters a community can be, in most cases, traced to an incident where the infection was carried in just such a manner as this. Dr. Niles expressed great faith in the efficacy of the serum treatment and called special attention to the fact that where good serum is rightly used on well hogs or hogs that have a slight temperature, but yet show no signs of being sick, there will be a loss, not to exceed one-half of 1 per cent. The simultaneous method was recommended as being much more effective than the use of serum alone because the former brings about a permanent immunity, while the latter is of but a few weeks' duration. This scientist expressed himself as believing that cholera would eventually be stamped out, but this must be accomplished, not by the treating of all hogs, but by using serum in conjunction with the enforcement of proper quarantine regulations.

The Agricultural College.

Pres. A. R. Pearson, of the Iowa Agricultural College, addressed the convention, taking up more specifically the lines of investigational work that are being carried on by the agricultural college to the end that farmers are directly benefited in the production and the marketing of their products. A great many scientists are engaged at the college working out specific problems along the lines of plant diseases, the breeding of livestock and the finishing of the same for market, the formulating of ways and means for preventing livestock diseases of all kinds, while, in addition, the institution is training 2,500 young men and women annually for useful industries. There are, at present time, 1,000 students studying agriculture. A census taken among these students indicates that they are practically all intending to return to the farm. President Pearson, after pointing out the various steps that have been taken in the agricultural development of the country, called attention to the fact that we have at last come to what might be called the organization age. Farmers and stockmen must not only organize to advance their own cause, but they must keep their organization up to the highest point of efficiency. Every other industry is organized and the farmer has lagged behind until his failure to protect his own interests is militating in some cases against his welfare.

Resolutions.

Chief among the resolutions unanimously adopted by the association was one which declared the livestock contracts which shippers were obliged to sign were iniquitous and deprived, in every instance, the shipper of relief from the negligent acts of the carrier. Under the law, now interpreted and construed, the carrier is only compelled to pay $50 per head on cattle that are killed, though, in many instances, fat steers are sent to market worth from $125 to $150 per head. This condition of affairs is intolerable and should be remedied at once, according to the views expressed in this resolution. Among the other resolutions adopted were the following:

That there should be strict federal inspection of all meats and meat products imported into this country.

That the state of Illinois be urged speeedily to adopt effective regulation to restrict undue burden placed on shippers and consumers because, as the association believes, the charges exacted by the stock yards exchange and the Union Stock Yards and Transit Company, of Chicago, are exorbitant and unreasonable.

That the association deplores unfair conditions which surround production of meat, which ought to be both a legitimate and fairly remunerative industry, but which now is most perilous. The consumer is charged and pays for his meat a priee which is well nigh prohibitive.

That the association proclaim that high prices of beef are due to the fact that beef packers practically fix the prices the producers shall receive and consumers shall pay.

There should be a strict federal inspection of all hog cholera serum.

That the legal departments of railroads and other transportation companies should not be permitted to transfer certain and numerous claims from the state courts to federal courts merely to harass owners or defeat claims. That congress be urged to enact such legislation as will restrict this practice.

Officers Elected.

The following officers were elected for the ensuing year:

President, A. Sykes, of Des Moines; vice-president, J. A. Gunn, of Buckingham; treasurer, Charles Goodenow, of Wall Lake; secretary, H. C. Wallace, of Des Moines, chosen by the board of directors.

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In Cold Weather Means Healthy Hogs

Hogs won't drink as much as they should if given cold water. When they are forced to drink it they shiver away the fat you have built with costly feed. Their whole system is chilled. They will be healthier and put on more weight with less feed if given water with the chill off. Give them a constant supply of good water.

Ideal Hog Waterer *Will Not Freeze in Coldest Weather*

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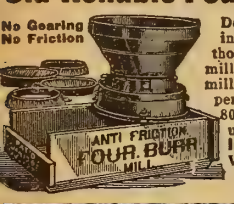

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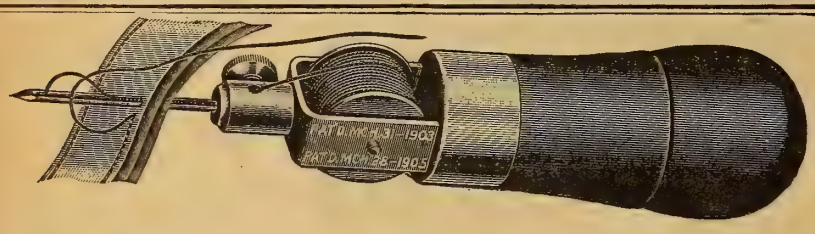

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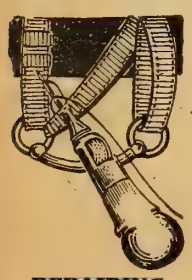

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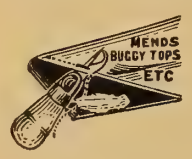

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IOWA BEE KEEPERS MEET.

"The livest agricultural society in the state" was the manner in which Prof. W. J. Kennedy, of Ames, characterized the Iowa Bee Keepers' Association, which held its second annual convention in Des Moines last week. With the number of bee keepers in Iowa increasing at the rate of 10 or 15 per cent per annum there is greater interest in the subject today than ever before, with the result that fully 200 enthusiasts attended and participated in an unusually strong and interesting program. Ames was selected for the third annual convention and the following officers elected for the ensuing year: President, Frank C. Pellet, of Atlantic; vice-president, J. W. Stine, of Salem; secretary, S. W. Snyder, of Center Point; treasurer, C. H. True of Engelwood; directors, A. F. Bonney, of Buck Grove, E. C. Wheeler and H. B. Miller, of Marshalltown. The association, through the generosity of prominent bee keepers decided to donate 500 pounds of honey to the poor people of Des Moines to be distributed so that their tables may be provided with this toothsome delicacy on Christmas day. A campaign to make honey as conspicuous and as unfailing on Christmas tables as the cranberry has long been was inaugurated with much enthusiasm and there is every indication that bee keeping will be more popular and more profitable in Iowa in the next year than ever before. A live organization is back of the campaign and there is every indication of success.

Frank C. Pellett, president of the organization, went on to say that "only one state of equal area outranks Iowa in the value of her bees. Iowa far outranks Colorado, Idaho and other estern states of greater area whose honey production is so widely advertised. With proper encouragement Iowa can soon rank first, area considered. Only California and Texas with their great areas are now far ahead.

"This association has secured the passage of foul-brood quarantine law and better support of the bee inspectors office during the past year. Greatly increased facilities for exhibiting hive products at state and county fairs and much better premiums have also been secured. This interest on the part of the fairs will help to stimulate interest in the industry.

"The greatest need of the bee-keeping industry in Iowa now is better understanding on the part of the public of its importance to the state, and better methods of production and marketing on the part of the bee keeper. The use of second-hand containers and other equipment should be discouraged unless they be thoroughly disinfected, as this has been the source of much of the spread of foul brood.

"The society should endeavor to work out some system of crop distribution that would net the producer better prices without injury to the consumer. Too much honey is shipped to commission merchants in Chicago to be sold by them to jobbers who in turn sell it back to grocers near at hand. The securing of a list of persons who are in the market for honey, by the secretary of this association, who will place the list at the disposal of every member will be a step in this direction. If grocers wishing to buy honey knew that by writing to the secretary their wants would be placed before all the leading honey producers of Iowa, they would readily take advantage of the opportunity."

CATTLE IN BRAZIL.

The cattle-producing possibilities of Brazil have been overlooked because of the superiority of the Argentine as a stock-fattening country. The most suitable land in Brazil now being utilized for grazing cattle is in the states of Rio Grande do Sul, Parana, Santa Catharina, Sao Paulo, Minas Geraes, Goyaz, Matto Grosso, Baha, Ceara and Plauhy. All the territory in the southernmost state of Brazil, Rio Grande do Sul, in which are already located numerous ranches, has railways carrying its products to the ports on the Atlantic. The absence of reasonable railway transportation rates has prevented the cattle business from becoming profitable in most districts of Brazil. Shipment has been conducted, therefore, on a limited scale. Driving from one point to another must at present be resorted to, but it is only a question of a few years until this method of bringing the product to the markets will be superseded by modern transportation facilities. Refrigerator freight cars are now being provided.

While there are no reliable statistics of the pastoral industry in Brazil, it is estimated that there are 30,000,000 cattle in the country, of which Rio Grande do Sul is credited with 8,000,000 and Minas Geraes with 5,000,000. In 1908 the salted beef establishments of Rio Grande do Sul killed 598,000 cattle. In 1911 the state of Minas Geraes sent 349,653 cattle to the slaughter houses of Rio de Janeiro and Sao Paulo. Cattle for consumption in the large centers of population are sold at different markets situated at railway centers in the interior of the ranching states and are handled as follows: The herdsman acquires the cattle from the rancher and drives them to a central point, where they are purchased by the retail meat merchant.

For the last two years cattle in Brazil, as elsewhere, have risen in value, and since the number in Brazil does not supply the local demand, the tendency will be toward a further rise in price. Some six months ago fat steers, weighing 1,000 to 1,100 pounds, delivered at the point of slaughter, sold at $40 to $45, according to quality and condition. This year cattle have advanced in value at least $3 a head, but an expert here estimates that a ranch could be stocked with cows in Matto Grosso, Goyaz, or Minas Geraes at not exceeding $23 a head. In the cities of Rio de Janeiro, Bahia, Pernambuco and Sao Paulo the average price of beef is 11 to 16 cents a pound. On the Amazon the price is much higher. —[Indianapolis News.

Eight two-year-old Percheron stallions imported and for sale by S. Metz & Sons, Homewood, Ill. See advertisement on page 34.

Arthur M. Evans in his daily letter in the Chicago Record-Herald is authority for the statement that a saving of $25,000,000 a year has been effected by grain growers in the middle West through the development within the last decade of farmers' elevator companies, an illustration of what can be accomplished through co-operation and organization. In ten years, according to Mr. Evans, this co-operative movement has grown until it now embraces about 2,400 farmers' grain companies, with at least 275,000 stockholders. In the middle West states there are about 1,000 of the companies, wtih about 200,000 farmers as members.

FEED MILLS
ALL STEEL

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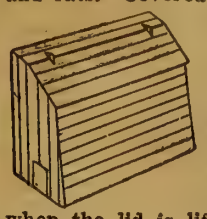
HINTS-SUGGESTIONS-DEVICES

AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

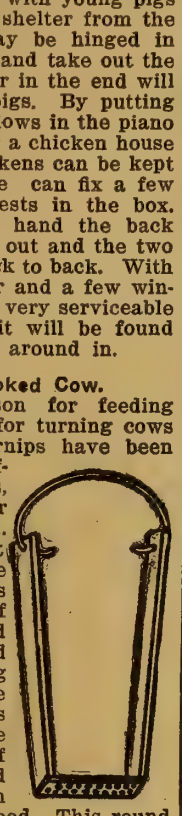
USES FOR PIANO BOX.

A piano box may be profitably used for several purposes. By putting the slanting portion of the top on hinges so that it can be lifted, it may be used for a corn or oat bin. This is placed in the hallway of the barn on blocks so that it will not rest on the floor and become a harbor for mice and rats. Covered with good roofing paper that will turn water the piano box may be used for a coal bin. If it is set with the opening toward the south, the snow or rain from the north or east will not beat into the box when the lid is lifted. The box has also been found useful as a hog house when covered to keep out wind and rain. The small sow with young pigs can find here a good shelter from the storms. The top may be hinged in order to put in straw and take out the old bed. A small door in the end will admit the sow and pigs. By putting one or two small windows in the piano box it can be used for a chicken house in which a dozen chickens can be kept very comfortably. One can fix a few roosts and several nests in the box. If two boxes are on hand the back ends may be knocked out and the two boxes set together back to back. With the addition of a door and a few windows this will make a very serviceable house for hens and it will be found light and easy to get around in.



To Cure a Choked Cow.

Now that the season for feeding roots in the yard or for turning cows into fields where turnips have been grown or feeding refuse apples is with us, we occasionally hear of cows being choked. A contrivance that will be found effective to use in a case of this kind may be made of a round piece of wood two inches thick and seven inches long fastened to two side pieces eighteen inches long, with a hole bored at each end of the side pieces and also several holes in the round pieces of wood. This round piece is put into the mouth of the choking cow and a rope passed through the holes in the side pieces, which is fastened over her head in the manner of a bridle. The animal breathes through the holes in the bit and in her effort to rid her mouth of this a great flow of saliva takes place which runs down her throat when she holds her head up and assists in causing the obstruction to pass down or be ejected. Besides it entirely prevents the animals from becoming hoven and thus dying from suffocation. There are many methods in use to assist animals that are choked, but many of them are dangerous on account of injuring the gullet.



Milk Cupboard.

In many farm houses the kitchen is obliged to serve many purposes, especially in winter. The milk and cream is often kept in this room, as it is the warmest spot in the house. There is nothing objectionable in this if the kitchen is kept clean and well ventilated. A well-contrived cupboard kept specially for the milk and cream where they will be safe from dust and drafts, and still have proper ventilation, is a great advantage. The cupboard shown herewith is made to fit into a corner, being six sided, where it will occupy the least room. It should be wide enough to hold two quart pans, or four upon each shelf. This will be three feet outside measurement. Figure 1 shows the cupboard closed and finished except the netting while figure 2 shows a cross section. A post is placed in the center which holds the shelves; this is square. The shelves and cross-pieces are let into the post and are firmly fastened, as shown. Each shelf holds four pans. The post is made to turn around so that as one pan is put on the shelf it is pushed on one side and room appears for another. The lowest shelf is kept far enough from the bottom to give space for two or three cream jars. The whole is covered with mosquito netting doubled twice. A door is made of one outside section hung with two small hinges.

Fig. 1.

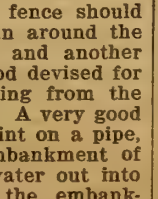
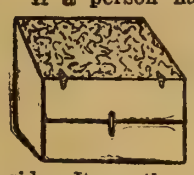


Fig 2.

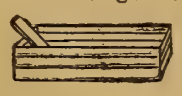
A Box For Kindling.

If a person has no place to keep chips and kindling indoors, a large dry goods box may be utilized for that purpose. It may be covered with a cheap rubber roofing and a door hung to one side. It can then be piled full of kindling which will keep dry when it rains or snows.



A Scoop Board.

Secure a board one foot wide and four feet long. Let one end rest on bottom of wagon bed a couple of feet from the back end, and lean it against the back board of bed. Then when bed is filled with husked corn it will be no trouble to scoop it out by running the scoop down the board. This will save any necessity of throwing out the corn with the hand until there is room to use the scoop.



Stock Water From the Pond.

The man who has nothing better than a pond from which he must secure water for his stock should not allow them to run to the pond and tramp in the dirt and otherwise befoul the water. A good fence should be run around the pond, and another method devised for watering from the pond. A very good plan is to put a sand point on a pipe, drive it through the embankment of the pond and run the water out into a trough located near the embankment. By putting a spigot on the end of the pipe the water can be turned into a trough and shut off when trough is filled. In winter time it may be necessary to pack manure about the pipe to keep from freezing.

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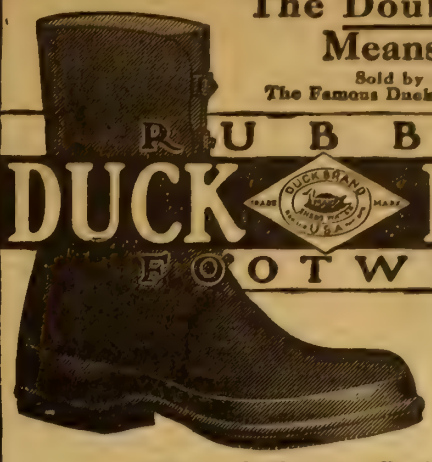

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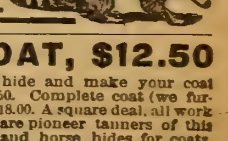

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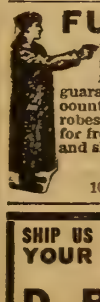

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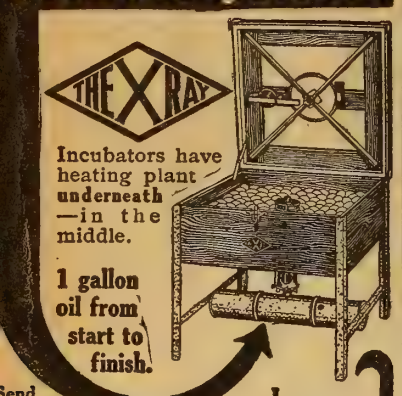

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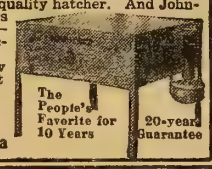

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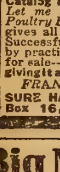

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

CONGESTED LIVERS IN FOWLS.

At the rate Mrs. Noel's chickens are dying, her flock will soon be a thing of the past, unless prompt measures are taken. In a recent letter she says:

I am having all kinds of grief with my chickens this fall. Have done everything I know, but the trouble continues. A neighbor advised that I write to this paper for help. The first noticeable trouble is a lameness in one leg and foot. Later they quit eating, sit around for two or three days when the comb turns dark, and they die. In some cases there will be a little bowel trouble, while others will have none at all. I dissected a pullet yesterday, and all of the organs were bright, excepting the liver which was very dark. Fully 150 have died in this manner; most of them are fat and heavy. Can you tell me the trouble and a remedy?

It is "dead easy" to tell what is the trouble, but the remedy is another affair. In this case it would seem that the direct cause of the trouble is from poor circulation. This may be brought about from various causes, the most common, perhaps, being from a diseased condition of the crop or intestines that causes an obstruction of the circulation of the blood. The basis of poor circulation can frequently be traced to the diet; usually from feeding an excess of highly stimulating foods. The trouble may have been brewing since last winter, so long does it sometimes take for the trouble to show up. It would be more nearly possible to say more definitely, if the feed and housing conditions were known. Overcrowding, causing the fowls to become too warm, lack of exercise combined with stuffing the hens with "egg foods," would cause even a hustling hen to get lazy. If any of these conditions occur, they should be counteracted. Feed very sparingly of grain, cut out the corn, give liberally of succulent food, even if it must be purchased. Go to your druggist, and get calomel in 1-grain doses. Administer one to each hen, and follow with 20 grains epsom salts, after twelve hours. If it has not passed on to a more advanced stage, the greater part of the flock should be saved. It is to be feared that "everything I know" in the way of treatment has kept the trouble aggravated. Better far to seek advice at the earliest symptom, than to, figuratively speaking, "work in the dark."

feed, the use of stimulants, and not infrequently from worms. There are many things that will cause a slow irritation and it would be impossible to say which it is.

All fowls do not show the same symptoms. One valuable cock first showed his indisposition by becoming constipated. When straining he would evacuate a white slime and give a peculiar cry, indicating great pain. In this case a dose of salts, about as much as would be required for a two-year-old child, was given to him in water together with five drops of turpentine. The dose was repeated in a couple of hours, and before night the obstruction had passed and he was crowing the next morning.

If this bird had not been so valuable he would not have been treated and would have died the same as Mrs. A.'s fowls did. The diarrhea indicates that liver trouble has developed which makes a complication very hard to combat. If the cause can be located it will help matters. Examine the corn your fowls are eating. There is much mold this season, and that would of itself cause the trouble. Look for decaying meat and unslaked lime, poison of any kind, and watch the droppings for worms.

The treatment given the cock mentioned is as good as any, and the turpentine will get rid of any possible worms. Any kind of liver medicine is to be recommended, whether expressly for chickens or not. After the crop is empty, feed very lightly of soft food. One teaspoonful of salts in a mash, for every five hens, fed twice a week will be a good treatment for the flock as a whole.

John W. Houselog
White Plymouth Rocks
& Mammoth Pekin Ducks
Eggs and Stock For Sale
Quality first last and always

Bellevue, Iowa, July 9, 1913.

Homestead Company,
Des Moines, Iowa.
GENTLEMEN:---I must say that an advertisement in the Homestead is a puller. I sold all my surplus stock last spring and all the eggs I had to spare. You may depend upon my being with you again when the season arrives for advertising my stock.
Yours truly,
John W. Houselog.

CATARRH OF THE CROP IN FOWLS.

Trouble of a far different nature has invaded the farm flock of a reader of this paper. Mrs. Nellie A. writes:

Many of my chickens have died. They have a slime in the throat and diarrhea, similar to cholera. Some of them live a week, and some longer. If there is anything I can do for them, please let me know. If not, I will sell the well ones, and kill the sick.

It is orthodox to call everything which relates to the head, roup. Even chicken pox is "roup" with many people.

If this poultry raiser will examine her fowls carefully she will probably find the crop distended, though not hard. The contents are largely liquid and gas. It may be caused from feed containing too much fiber, from moldy

SYMPTOMS OF TUBERCULOSIS.

While dressing chickens for the table, one enterprising woman discovered that her fowls were not exactly healthy. In her communication she says:

I would like to ask the editor of the poultry department, if yellow spots inside of a chicken indicate tuberculosis. I have noticed spots located near the lungs of the last six chickens I have dressed. The first of the trouble was noticed three weeks ago. They are fat and seem in good health, but the lungs do not look right. These spots resemble the cooked yolk of an egg, and vary in size. I would like to know if this is tuberculosis, if there is any cure, and if those affected can be told from the well ones. I would like to sell any that are all right. Is there danger of other farm animals becoming affected, or people? What would you advise one to do with them?

Only that this woman was quick to note the diseased condition of the chickens while dressing them, the trouble would probably have made sad ravages before any outward symptom was in evidence. After the trouble reaches the more advanced stages, the victims lose flesh, become weak and act very much as human beings would. It is a germ disease, caused by a bacillus, and must be communicated by contagion. The germ, of its self, can not move, and is carried in divers ways, usually by a person who has visited infected yards, or by crows and sparrows. The latter are

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY

Add Value to Your Flock

BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

Our Blood Red Strain of S. C. R. I. Reds are that rich, velvety red kind; big boned, long bodied type so much sought after. Cockerels $2, $3 and $5 each. Pullets $12 to $20 per dozen. Our show records prove that we have the goods in our Blood Red Strain. Don't fail to order or write us today. F. L. Reinhard & Son, Ottumwa, Ia.

S. C. Rhode Island Reds
TOMPKIN'S STRAIN
Write for descriptive circular.
P. H. Thiel, Renwick, Humboldt Co., Iowa.

40 CHOICE COCKERELS FOR SALE 40
RHODE ISLAND REDS AND BUFF ORPingtons. R. C. and S. C. R. Reds; S. C. Buff Orpingtons, $2.00 each, three for $5.00. Address C. R. & R. W. STEELE, IRETON, IOWA

Rose Comb Red Cockerels
TUTTLE strain, range bred, deep red, long backs, good bone. Utility cockerels $1.50 each; selected breeders $2.50 to $5. Early orders receive pick of flock. Order at once. Address
W. W. Forbes, Box 441, Jefferson, Iowa

S. C. Rhode Island Red Cockerels
HIGH-CLASS, farm raised, dark velvety red, heavy-boned fellows that will improve your flock. $1.50 and up. Mention The Homestead.
L. G. Johnson, Box H, Steamboat Rock, Ia.

REDS ALL SOLD
WHITE Holland toms $4; hens $3.50 each. Write Jesse D. Howarth, R. 2, West Grove, Iowa.

R. & S. C. R. I. Red ckls.; R. & S. C. Brown Leghorn hens, pullets and ckls.; fawn and white Indian R. drakes; Mammoth White Holland toms. Prices reasonable. Mrs. T. A. Gough, Bristow, Ia.

MOUSER'S REDS (both combs) for exhibition or breeding. Silver cup winner at Omaha and other big shows. Hens $1.50 ts $2.50; Cockerels and pullets $2 to $10. W. I. Mouser, R. 5, Red Oak, Ia.

ROSE COMB RHODE ISLAND REDS
A CHOICE lot of big-bone, vigorous cockerels of good color and breeding. First orders get choice. Price $1.50, $2 and $2.50. F. M. Lane, Prescott, Ia.

CHOICE R. C. R. R. COCKERELS $1 each. Ship from De Soto.
MRS. T. J. LINK, R. 2, WINTERSET, IA.

55 S. C. RED CKLS. Prize-winning strain; scored $3 to $5 each; unscored $1.50 ea. Mrs. Jennie Efron, R. 1, Monroe, Ia.

R. C. RHODE ISLAND RED COCKERELS One reg. yearling Holstein bull. Prices right. A. G. Canfield, R.4, Kanawha, Ia.

DEEP RED R. C. R. I. RED COCKERELS and pullets for sale. One pen S. C. Reds $10. Address MRS. CHAS. BELZ, CONRAD, IA.

R. C. Rhode Island Red Ckls. Prime birds, $1 and $1.50 each. Address W. B. COOPER, MILFORD, NEB.

SINGLE COMB R. I. RED cockerels at $1.00 each. Good, healthy, farm-raised birds that will improve your flock. Herman Kahler, Stockton, Ia.

ROSE COMB R. I. RED Cockerels $1.25 each, from good utility flocks
MRS. J. J. BOATMAN, BARNES CITY, IA.

ROSE Comb Rhode Island Reds, choice ckls, $1.50 to $3 each. Also hens and pullets at reasonable prices. Address B. F. Bentley, Route 2, Boone, Ia.

CHOICE R. C. R. I. RED COCKERELS Deep red, Early batch $1.50 up. Address Earle Welch, Kanawha, Iowa.

S. C. R. I. Reds Both sexes, from pen headed by a $20 cock bird, $1.50 up, yearling hens $1.50 up. Alex McNeill, Harlan, Iowa.

S. C. R. I. Red Cockerels from $1, $1.50 and up; Fawn Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

CHOICE S. C. Red ckls., pullets, yearling hens $1 ea. Bourbon Red turkey hens $3, gobblers $5; I. R. drakes $1. Mrs. Laun, Riverdale Farm, Floyd, Ia.

R. C. Rhode Island Red Cockerels for sale. Thoroughbred, $1 to $3. T. H. THOMPSON, KANAWHA, IOWA.

ROSE COMB RHODE ISLAND RED cockerels, choice birds $1 and $2 each. Address MRS. JOHN HOLMGREN, ROLFE, IOWA.

S. C. RED COCKERELS $2 up, large boned, range bred. Scored by Shallabarger $4 to $6. First at 1913 county fair. Eddith Andrews, Atlantic, Iowa.

LANGSHANS.

EXTRA-GOOD Black Langshan cockerels, guaranteed to satisfy, at $1.50 to $5; also a few Buff Rocks. Address H. P. Myers, Murray, Iowa.

BIG, BLACK LANGSHAN COCKERELS for sale $2 each or three for $5; fine ones. Address MRS. L. A. CATLIN, MONMOUTH, ILL.

FANCY big-boned, greenish, glossy, black eyed Langshans, $5 each. Good breeders, three for $5, cockerels, pullets. H. Osterfoss, Hedrick, Iowa.

BLACK LANGSHANS---50 cockerels and pullets for sale. 20 years' breeding. Write quick if you want any. Address O. H. Stilson, Corwith, Ia.

B. LANGSHANS, Runner ducks; cockerels, hens and pullets, $1 to $3. Satisfaction guaranteed. Circular free. Bert A. Randell, Mt. Zion, Iowa.

B. and W. Langshans, S.C.B.Orps., Lt. Brahmas, R. C. R.I.Reds, M. B. turkeys, choice birds, reasonable prices. Mrs. S. E. Newell, R. 6, Audubon Ia.

LEGHORNS.

ROSE COMB BROWN LEGHORN COCKERELS

At the Pike Timber Stock Farm
DAVENPORT & MACK, BELMOND, IOWA

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels; also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Fischel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

ROSE Comb Brown Leghorn cockerels. Large, vigorous birds with true Leghorn type of early Mar. and April hatch, from strictly pure-bred stock, noted for laying qualities and size. None but first quality birds sent out. Write Geo. Boyce, R. 3, Newell, Ia.

S. C. W. LEGHORN COCKERELS from prize winning stock, priced cheap. Also S. C. B. Leghorn pullets laying now. **MRS. C. J. WAY, - BUSSEY, IOWA**

HOLIDAY BARGAINS in S. C. W. Leghorn cockerels, first-class breeders, $1.50 each; 4, $5; 6 or more $1 each December only. Satisfaction guaranteed. Write J. Russell Lang, Brooklyn, Iowa.

S. C. W. LEGHORNS Winners of blue at Villisca. Cockerels and pullets, Young's strain. Mrs. Wilson McIntyre, R. 6, Red Oak, Ia.

SINGLE COMB BROWN LEGHORN cockerels, hens and Guinea fowls. Write for prices. Address **J. A. Penn,** Phone 87, **Alta, Iowa.**

S. C. W. LEGHORN cockerels for sale. Extra good ones at reasonable prices. D. W. Younger strain. Address **K. P. ESPE, JEWELL, IOWA.**

LARGE, well-marked, Single Comb Brown Leghorn cockerels from sires scoring to 93½, 75c and $1 each. Write Mrs. Will Michael, Selma, Ia.

CHOICE R. C. B. Leghorn cockerels for sale at $1 ea., 6 for $5. Fine birds from choice egg-producing strains. Mrs. P. W. Reece, R. 3, Elmore, Minn.

S. C. W. LEGHORN cockerels and hens from Wyckoff, Knapp, Young and Vannatta strains. None better. 75c to $1 ea. George Gaul, Tipton, Ia.

FINE S. C. WHITE LEGHORN Cockerels for sale at $1.00 each, bred for size and color. **MRS. H. H. HESS, R. 2, MINIER, ILL.**

S. C. W. LEGHORN COCKERELS for sale. Farm raised and healthy. $1 each or 6 for $5. **A. R. Cochran, Anita, Cass County, Iowa.**

SINGLE COMB BROWN LEGHORN Pullets and cockerels. 500 to select from. **EARL BLOOM, BRIDGEWATER, IA.**

UTILITY R. C. B. Leghorn cockerels, S. C. Mottled Anconas, W. H. turkeys. Prices neighborly. Satisfaction guaranteed. A. F. Anderson, Selma, Ia.

For Sale Choice lot of Single Comb Brown Leghorn, Single Comb Rhode Island Red chickens. Mrs. A. N. Bonnett, Birmingham, Iowa.

SINGLE Comb White Leghorn hens and pullets. Write for surprise prices on exceptionally fine cockerels. Write Mrs. W. W. Scott, Calamus, Ia.

S. C. W. LEGHORNS, 100 unscored ckls. $1 ea. Scored birds $1.25 to $2.25; farm raised, scoring 91 and up. W. C. Kimball, R. 1, Shell Rock, Iowa.

ROSE COMB BROWN LEGHORN cockerels; fine birds from choice egg-producing strains. Address **C. H. & J. E. Bauman, Pella, Iowa.**

S. C. Br. Leghorn Cockerels That are large, well marked and healthy. Price $1.50 ea. F. Bollman, Wall Lake, Ia.

R. C. B. LEGHORN COCKERELS $1 each or 6 for $5, hens $10 a dozen. **Mrs. Chas. T. Peacock, R. 2, Box 20, Plattsmouth, Neb.**

SINGLE Comb White Leghorns, 250 ckls. at bargain prices, guaranteed to please, $1 and up, circular and show record free. W. F. Wallace, Diagonal, Ia.

50 CHOICE S. C. W. LEGHORN COCKERELS $1 EACH
EGGLAND FARM, MT. VERNON, IOWA

LEGHORNS---Rose and Single Comb, Buff, White and Brown, $1 each, dozen $12. Address **Progressive Poultry Farm, Hampton, Iowa.**

R. B. Brown Leghorns, from prize-winning stock, choice selected ckls. $2 ea., 4 for $5; ckls. and pullets $1 ea. Mrs. Nelson Hyde, R. 2, Manson, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels. $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley, Selma, Ia.

FOR SALE Fine pure bred R. C. Brown Leghorn cockerels, $1 each; $10 per dozen. Mrs. Roy Landis, Weldon, Iowa.

UTILITY Rose Comb Brown Leghorn cockerels, W. H. turkeys and White African guineas; prices neighborly. Sat. guar. A. F. Anderson, Selma, Ia.

WHITE LEGHORNS 100 Single Comb cockerels. Good, husky birds at $1 each. Address **G. H. BURGE, MT. VERNON, IA.**

PURE-BRED R. C. B. LEGHORNS. scored and unscored. For prices write Mrs. C. R. Jones, R. 2, Iowa Falls, Ia.

ANCONAS.

S. C. Mottled Ancona cockerels $1.50 and $2 each; also F. and W. I. R. drakes from white egg strain $1 each. Mrs. E. G. Hall, Lone Tree, Iowa.

S. C. MOTTLED ANCONAS. To make room for winter I offer 50 pens and trios at bargain prices. Address Geo. W. Harris, Route 3, Shelby, Ohio.

Anconas S. S. Hamburgs, W. Minorcas, W. Leghorns, Toulouse geese. Write your wants. **J. M. HALL, WILLIAMS, IOWA**

GEESE.

GEESE Mammoth Toulouse geese, either sex, early hatch for $3; later hatch $2.50. Address **Ethel H. Shaw, R. 6, Newton, Iowa.**

GEESE White Chinese geese $2.50 each; Toulouse geese $2 ea. Write me. Address **F. B. COBB, TIPTON, IOWA.**

WHITE China and Embden geese $2.50 each; Muscovey ducks $1.25, drakes $1.50. Mrs. J. F. Stolley, Granville, Iowa.

MINORCAS.

S. C. BLACK MINORCA cockerels, high-scoring birds. $1.50 each if taken at once. Address Neils Larson — Route 4 — Alden, Iowa.

directly responsible for more infected fowls than many people realize, as well as infesting poultry with mites. All fowls are not susceptible to tuberculosis; rather the weak or indisposed, whether constitutionally so, or brought about by wrong conditions. Plenty of sunlight and fresh air is the only sure destroyer of germs. Spraying with a good insecticide is to be recommended, but germs, like other noxious objects, cannot live in the open sunlight. Every poultry building should be so arranged that the sun's rays can penetrate every nook and corner. After burning all litter and being reasonably sure that there is no danger from outside infection, put enough permanganate of potash in the drinking water to color it a bright red. This is a good disinfectant and precludes contagion through a common drinking vessel. If that were our flock, we would not dispose of them just yet, but watch developments, being sure to keep them in the open as much as possible. If one shows up anemic, kill and examine. Put a piece of a lung in water; if it floats, it is healthy; if diseased, it will sink. Burn, or bury deeply, all diseased birds. If the trouble does not abate, and the flock must be disposed of, the only safe way, would be to dress them before selling. It is impossible, otherwise, to know which are fit for food. There is little danger of other animals, and people, becoming infected, though not at all impossible. The germ is probably the same in all things, but has become so differentiated as to reduce the danger to a miuimum.

This is what one woman did with a flock of forty-five hens of an American breed: The hens began to lay in November, before the weather was very cold. It seems to be difficult to coax them to begin to lay after winter sets in in earnest. All through the coldest winter months when eggs were 40 cents a dozen, she gathered 50 per cent egg yield. The hens did not molt early so she began to feed for eggs before the molt. Beginning the first of September the fowls were fed a mash composed of bran, with about 5 per cent of beef added, the whole mixed to a crumbly consistency with milk—either sweet or sour. This was the morning meal, and not enough given to satisfy their appetites. At noon they were given wheat or oats, scattered in litter. At night they were given a full feed of corn. Turnip tops were given for green feed, while grit and crushed shells were always accessible. The poultry building is not at all modern; in fact, would hardly be considered an average house. All windows were kept open, only on bitterly cold days. The building were kept scrupulously clean, by the use of petroleum and whitewash.

Not long since, this paper published an article about fowls being stuffed before killing. Uncovering this trick of unprincipled dealers, the department of agriculture issued a warning to housewives to be on their guard against sand-stuffed fowls. The government experts announce the practice of stuffing chickens with sand as one that is assuming considerable proportions. The legitimate fattening of fowls is to be encouraged, but the department frowns on weighing fowls from the sand pits. One teacher of domestic science related how she had found a half pound of corn in the crop of a fowl that had been purchased to demonstrate to her class.

If one has poultry to sell, it is well to keep posted on prices and not be at the mercy of the huckster, who travels over the country to procure poultry, at any price he can get the poultry raiser to take. Many of us there are, who can remember when the farmer was at the mercy of the stock buyer, who made the rounds of the country and set the "market price" to suit himself. Poultry is worthy of just as much consideration and improved methods as any other branch of farming.

POINTERS.

—Mrs. Chas. Belz, Conrad, Iowa, advertises Rhode Island Reds on page 18.

—C. A. Roberts, Lancaster, Mo., advertises Bourbon Red turkeys on this page.

—Mrs. W. H. Mann, Malcolm, Iowa, advertises Fawn and White Indian Runner Ducks at $1 each. These are

TURKEYS.

TURKEYS TURKEYS TURKEYS

BOURBON RED MAMMOTH BRONZE WHITE HOLLAND

BIG, clean, heavy-boned stock at prices you can afford to pay. We breed all paying varieties of poultry Write for descriptive circular. Mention The Homestead and address **W. F. HOLCOMB, MANAGER NEBRASKA POULTRY CO., CLAY CENTER, NEBRASKA.**

BONNIE VIEW WHITE HOLLAND Turkeys

HAVE two flocks that are not related. Fine, healthy turkeys. **Mrs. N. W. Burbank, Bonnie View Farm - New Sharon, Iowa.**

TURKEYS MAMMOTH WHITE HOLLAND TURKEYS from Iowa state show winners. Toms $5; hens $3.50. Address **ETHEL H. SHAW, R. 6, NEWTON, IOWA.**

BOURBON RED TURKEYS
Choice birds at $5 each. Mrs. E. S. Hebron, R. 2, Strawberry Point, Iowa.

For Sale **Full Blood Bourbon Red turkeys** from select breeding, toms $5, hens $3, and B. P. Rock cockerels. Address **RAY E. TULLER, R. 2, OTTUMWA, IOWA.**

BIG BRONZE TURKEYS FOR SALE---Females weigh from sixteen to twenty-two pounds. One yearling tom weighs thirty-two pounds. Prices right. Address Mrs. Grant Gallaher, Spencer, Iowa.

For Sale **WHITE HOLLAND TURKEYS,** extra fine birds. Price—hens $3, toms $4 each. Mrs. A. J. Douglas, R. 1, Seaton, Illinois.

65 B. R. TURKEYS Non-related to any I have sold before. Extra good. **MILT BRADSHAW, BEACONSFIELD, IA.**

BOURBON RED TURKEYS, hens $3.25, toms $4.50. S. C. Brown Leghorn and R. C. Red cockerels. **S. B. MOYLE, HILLSBORO, IA.**

EXHIBITED four M. B. turkeys State Show Des Moines, 1913; won 1st young tom, 2d old tom, 2d hen, 3d pullet. Mrs. Wm. H. Nolin, Monroe, Iowa.

BOURBON RED TURKEYS For sale. Excellent birds at reasonable prices. **C. A. ROBERTS, LANCASTER, MO.**

M. B. TURKEYS Of the big-boned type; 12 toms $5 each; hens $3.50 each. **MRS. JENNIE EFNOR, R. 1, MONROE, IA.**

BOURBON RED TURKEYS Hens $3 each; toms $4 each. Address **N. J. SLATER, HAZELTON, IOWA.**

WHITE HOLLAND TURKEYS, big, healthy toms and hens, unrelated. Attractive prices. Write **B. B. BENNETT, TRIPOLI, IA.**

MAMMOTH BRONZE TURKEYS of the Giant strain, pullets and cockerels for sale. Eggs in season. Write C. A. Molesberry, Plymouth, Iowa.

THE NEW POULTRY FARM. Pure-bred, large Mammoth turkeys and Pekin ducks. Address William & Roscoe Lehner, R. 2, Elizabeth, Ill.

GIANT STRAIN M. B. TURKEYS for sale. Trios not akin; noted for size, standard markings and show record. A. D. Walker, Memphis, Mo.

WHITE HOLLAND TURKEYS—Elephant strain, very fine birds. Hens $3, toms $5. Write **MRS. J. C. HENNING, HAWKEYE, IOWA.**

PURE mammoth Bronze turkey toms and hens for sale at reasonable prices, good stock. Write to Mrs. John Simmons, Jr., R. 3, Waverly, Iowa.

MAMMOTH BRONZE TURKEYS for sale. Hens $3.00, toms $5.00. **MRS. C. C. KELLOGG,** R. 2, Prairie City, Ia.

For Sale Mammoth strain Bourbon Red turkeys. Pure bred White Wyandottes. Extra good ones. Write Mrs. L. E. Miller, Norwich, Ia.

Pure Bred Bourbon Red **TURKEY HENS $3; GOBBLERS $5.** Write **ADAM YOUNG - ROCKFORD, IOWA.**

For Sale Bourbon Red turkeys, the big heavy-boned kind; hens $4, toms $4.50. Write **WM. OAKLAND . BLAIRSBURG, IOWA.**

White Holland Toms for sale; price $5 each. Write **MRS. D. E. HIGGINS, JEFFERSON, IOWA**

M. B. TURKEYS for sale. Hens $3.50, toms $6. Large frame. Order early. Address **John O. Boyle, R. 1, Pleasanton, Iowa.**

DOGS.

SCOTCH COLLIES

HOMESTEAD readers interested in the very best Collies should write us. Our stock is direct from the very best imported, and of strains noted for their winnings and intelligence. Special prices for a short time. A. A. Martin & Son, Tekamah, Neb.

SCOTCH Collies. Bright, intelligent workers. Airedale terriers for hunters, watch dogs and companions. Grown stock, puppies for sale at all times. Write for large list. W. R. Watson, Box 125, Oakland, Ia.

COLLIES---Breeders buy our pups for stud dogs—reason—superior stock. Airedales, by champion, Judge Dexter, Imp. Tintern Perfon. Pups, trained dogs and bred bitches. P. L. Savage, St. Charles, Ill.

FOR SALE—St. Bernard puppies, pedigreed; color orange and white. Great watch dogs and child lovers. When full grown weigh 200 lbs. and stand 28 to 32 in. high. **Peter Eckhardt, Traer, Iowa.**

SCOTCH COLLIE PUPPIES Sable and white, the working strain, either sex, $5. Address **E. C. EATON, LADORE, IA.**

FOX TERRIERS, all ages, females open or bred for sale. Best rat, pet or watch dogs on earth. Address T. H. Kalstenberg, 1 Main St., Pella, Iowa.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

TWO COON DOGS For sale, two years old; good for opossums, coons and minks. $25 each. B. H. Smothers, Burnt Prairie, Illinois.

SCOTCH COLLIE PUPPIES Sable and white, fine ones, $5 each. Write **W. L. COOPER, MILFORD, NEBRASKA.**

BRIGHT Intelligent Collie pups from trained stock, pedigrees, eligible to registry in A. K. C. Address Mrs. A. N. Bonnett, Birmingham, Iowa.

DUCKS.

INDIAN RUNNER DUCKS White and fawn. White good strain. American standard prize winners; drakes have fawn heads, $1 each, $10 a dozen. Homer H. Todd, Alburnett, Ia.

FAWN AND WHITE Indian Runner ducks. Won second on drake; first, second and third on duck at the Villisca show in December; 100 for sale; prices reasonable. Mrs. C. A. Robinson, R. 6, Griswold, Ia.

Pekin Ducks Extra large, good laying strain, hens $2, drakes $2. Mated trio $5. Address **ED MEYER, DYERSVILLE, IOWA.**

FAWN and White Indian Runner Ducks, of Reinhard strain, fine layers, white eggs. Birds $1.50 each or $4 for a trio. Mrs. G. W. Shaw, Monroe, Ia.

CHOICE Pekin ducks (Batchelder strain); White Wyandottes, pure white utility or fancy; try ours; they will please you. E. S. Dyas, Bellevue, Iowa.

INDIAN RUNNERS Fine fawn and white colors, $1 each. Address **MRS. WILL MICHAEL - SELMA, IOWA.**

INDIAN RUNNER DUCKS Fawn and white; good, strong and great layers $1 each. **Mrs. W. H. Mann, Malcom, Iowa.**

FOR SALE—Buff Orpington ducks and drakes, the best ducks on earth. Get busy if you want a start in this new breed. A. B. Johnston, Brooklyn, Ia.

FAWN AND WHITE INDIAN RUNNERS—ducks $1, drakes 75c; white egg strain. Write at once. Address Jennie Ryder, Farmington, Iowa.

I. R. DRAKES, fawn and white; direct Berry strain; fine layers; white eggs; $2 each; 3 for $5. Write **E. E. Snively, Jefferson, Iowa.**

MAMMOTH PEKIN DRAKES and ducks, large high-class birds, eight to ten pounds. Address Lola Barnes, Route 1, Fonda, Ia.

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

WHITE INDIAN RUNNER DRAKES, $1.25; pairs $3. Silver Campine cockerels $1.50; pairs $3. Address C. & C. T. Van Lint, Pella, Iowa.

35 PURE F. AND W. INDIAN RUNNER ducks and drakes from an eastern fancier's strain, $1.25 ea. Mrs. Jennie Efnor, R. 1, Monroe, Ia.

ORPINGTONS.

WHITE ORPINGTON CKLS. From best laying strain; large, heavy-boned birds; unscored; price $1.50, $2 and $2.50. Address Frank Nash, Minden, Nebraska

ONE dozen Single Comb White Orpington hens and one ckl., $20; ckls., $5; White Langshan ckls., $5. M. B. turkey toms, $5. 15 S. C. W. Leghorn hens and 1 ckl., $13. Selma Shanander, R. 1, Pilot Mound, Ia.

CHOICE S. C. Black Orp. ckls. from high scoring stock reasonable. Write before buying. Satisfaction guaranteed. A. F. Stoeckl, B. 284, Dyersville, Ia.

S. C. Buff Orpingtons A few good, early hatched cockerels at from $3.00 to $5.00 each. **Mrs. Henry Martin, Eddyville, Nebraska.**

CHOICE S. C. Buff and White Orpington hens and pullets at $10 per dozen. Cockerels $1 each. Mrs. Leon J. Healy, R. 2, North English, Ia.

CRYSTAL WHITE ORPINGTON cocks, ckls. and pullets, also a few from Kellerstrass $2 eggs. J. H. Hartshorn, R. 1, Traer, Iowa.

FOR SALE BUFF ORPINGTON PULLETS
A. B. JOHNSTON - BROOKLYN, IOWA

Pure Bred White Hollands, Pekins, S. C. B. Orpington ckls. Mrs. A. S. Davis, Meadow Crest Farm, Burlington, Illinois.

FINE BUFF ORPINGTONS Indian Runner ducks, Bronze turkeys. Write **SARAH QUIRE - LYNNVILLE, IOWA.**

50 S.C.W.Orp. ckls. for sale $1.50 to $5 each. From state fair winners. Original strain Kellerstrass and Owens Farm. A. E. Goodman, Indianola, Ia.

SINGLE Comb White Orpington Hens and Pullets at attractive prices. Choice cockerels at $1 up. Mrs. Howard Niswander, Kinross, Iowa.

241 EGG strain. S.C.Buff Orp. World's champion layers. 100 choice early hatched ckls. Prices right. Circular free. W. L. Bardsley, Neola, Iowa.

75 S. C. B. Orpington hens $1 each. 100 ckls. $1.50 to $5 each. Good size and color. Mammoth Pekin ducks $1. Mrs. W. E. Zimmerman, R. 5, Neola, Ia.

S. C. Buff Orpingtons, cocks and cockerels, $5 up; hens and pullets, $2.50 up. No cheap ones left. Address GLYNN POULTRY YARDS, Cascade, Ia.

60 S. C. WHITE ORPINGTON Cockerels for sale. Big, husky fellows at $2 and $3 each. **M. D. KORNS, HARTWICK, IOWA.**

LARGE S. C. BUFF ORPINGTON Cockerels from heavy laying strains. Write for prices. Mrs. Harry E. Johnson, Oakland, Iowa.

BRAHMAS.

Light Brahma COCKERELS

WELL-MARKED, big-boned fellows; Mammoth Bronze turkeys; Indian Runner drakes, fawn and white and a few pure white ones, that were raised from a $100 trio. Also Buff Orpington drakes and Shetland ponies. F. P. Healy, Bedford, Iowa.

MY HEAVY WEIGHT Light Brahmas won 14 premiums at the Iowa State Fair. Frank Johnson, Monroe, Iowa.

COCHINS.

FULL BLOODED Partridge Cochin cockerels. Also choice hens for sale. Address **MRS. J. S. TROXEL, MELBOURNE, IOWA**

HAMBURGS.

75 S. S. HAMBURG cockerels and pullets. Bargains to make room for winter. Address **STEVE L. MORLAN - PLANO, IOWA.**

PLYMOUTH ROCKS.

1898 Buff Rocks 1913

FIFTEEN YEARS a breeder and exhibitor of this breed. Choice breeding and exhibition cockerels for $1.50 and up as to quality. Write stating just what you want. I will be pleased to quote you prices. **M. E. KRAFT, BROOKLYN, IA.**

300 GIANT BARRED ROCK COCKERELS PARENT stock weighs up to 12 lbs. They have good combs, heavy yellow legs, deep, narrow barring; price 3 for $7, 5 for $11, 7 for $15. Choice exhibition cockerels $4 to $10 each. Order direct from this ad. and if birds are not satisfactory can be returned. **Theo. Martin, R. 6, Bellevue, Iowa.**

FOR SALE--400 Mammoth B. R. ckls. and pullets. Ckls. mature weigh 12 to 13 lbs., pullets 11. Big bones, yellow legs, narrow deep barring; good beak, comb, eyes and best winter laying strain in state if properly cared for. Kind Farmers and Fanciers are looking for. Ckls. $2 ea.; 3, $5.50; 6, $10; pullets $1.25. Satis. guar. H. F. Strickler, R. 2, Mt. Carroll, Ill.

400 White Plymouth Rocks EXCEPTIONAL fine cockerels and pullets that will mature into extra large birds. Cockerels $3 each, 2 for $5, 5 or more at $2 each. Pullets $1.50 ea, M. Pekin ducks, large, white fowls; drakes $1.75 ea., ducks $1.50. John W. Houselog, R. 6, Bellevue, Ia.

WHITE PLYMOUTH ROCKS EXTRA good quality and sized birds. I am offering exhibition and breeding stock at reasonable prices. There is a scarcity of good birds this year so get your order in early. F. E. Ristrim, Stanhope, Ia.

White PLYMOUTH ROCKS AT Davenport I won 3d, 4th and 5th cock; 3d, 4th and 5th cockerel; 2d, 4th and 5th hen; 1st, 3d and 4th pullet. This entire string of show birds are for sale. Write and let me know what you want and I will give prices. Chas. L. Berry, R. 6, Iowa City, Ia.

IRVIN'S INVINCIBLE BARRED ROCKS POSITIVELY the best to be had. Show birds, extra layers. Pullets $2, $3 up. Ckls. $3, $4, $5 up. Buff and Blue Orpington ducks $3 to $5. 5% discount on $5 orders or over if you mention The Homestead **W. A. IRVIN - WILBER, NEBRASKA.**

BARRED PLYMOUTH ROCKS AS pure in blood and as well bred to lay as any breeder can offer you. Guaranteed stock for sale at honest prices. **E. E. Condit, Orillia, Ia.**

100 GIANT BARRED PLYMOUTH ROCK cockerels. These are fine birds with nice combs, large yellow legs and good barring. Price: 3 for $5.00, 5 for $7.00, 7 for $9.00, 10 or over $1.25 each, **EDWIN A. RISINGER, SPRAGUEVILLE, IA.**

60 WHITE PLYMOUTH ROCK CKLS.— Fine, strong birds, extra large strain and bred from the best laying stock, $1.25 and $1.75 each, Mrs. F. S. Manning, Friend, Neb.

FOR SALE—One hundred W. P. Rock cockerels, farm raised, big, lusty fellows that will weigh 6 to 8 pounds. M. A. McWilliams, Wall Lake, Ia.

CLOSING out my entire flock of prize-winning White Rocks, $1 each; birds scoring 90 to 93, $1.50; 93 to 95½, $2 to $3. Mrs. G. W. Shaw, Monroe, Ia.

BARRED P. Rocks and White Orp. ckls. and pullets. My birds are fine. Satisfaction guaranteed or money refunded. Jno. R. Patterson, Boone, Ia.

Buff Rocks Cockerels $1 to $3; pullets and hens 75 cents each. Write to **R. H. ROBERTS - CLEAR LAKE, IOWA.**

FINE BARRED ROCK COCKERELS, big bone, nicely barred, Thomas strain, price $1.50 to $3 each. Address **A. M. Long, Bassett, Neb.**

W. P. R. Cockerels from select stock, $1.50 each, or 6 for $7.50 if taken soon. Mrs. W. S. Huber, Tipton, Ia.

FIFTY BARRED P. R. COCKERELS and a few Golden Wyandotte cockerels from our prize winners. J. L. Todd, Route 3, Des Moines, Iowa.

EXTRA Choice Barred Plymouth Rock cockerels from stock scoring 90 to 93½, large and well marked, $1.50 up. Earl Bloom, Bridgewater, Ia.

W. P. ROCK cockerels and pullets, $1.50 each for three or less; $1.25 each for four to eleven; $1 each for twelve or more. B. W. Eckels, Nevada, Ia.

A Few Good well-barred, medium dark Barred Plymouth Rock cockerels for sale. **JAMES H. HOWARTH, MOULTON, IOWA.**

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Lineville, Ia., Jas. H. Duncan, Proprietor.

75 B. P. R. COCKERELS, large boned, fine barring, at a bargain while they last. Address **MRS. O. J. GROSS, THORNTON, IOWA.**

BUFF ROCKS ONLY Fine birds, best breeding; we have a fine lot of ckls. at reasonable prices. W. M. Black, Knoxville, Iowa,

White Plymouth Rock Cockerels CHOICE birds at $1 each. Address **MRS. W. H. ROYER, DALLAS CENTER, IA.**

STOP! LOOK! READ! Choice Barred Plymouth Rock cockerels $1.50 and $1.75, hens $1. Alfred Marquardt, De Soto, Iowa.

BARRED ROCK COCKERELS FOR SALE Bradley strain; $1.50 to $5; good bone and barring. Ckl. line only. **Ammy Bartow, Lynnville, Ia.**

W. P. ROCKS W. H. turkeys and Embden geese for sale. Fine, large birds at reasonable prices. S. M. Compton, R. 3, Newton, Iowa

HENS AND UNSCORED COCKERELS all sold. Still have good scored cockerels for sale from $1.50 up. Write L. C. Crum, Red Oak, Iowa.

WYANDOTTES.

CHOICE SILVER LACED WYANDOTTE COCKERELS $1.50 each. **Ed. Scheffers, Monroe, Iowa.**

WHITE WYANDOTTE COCKERELS and yearling hens for sale. Low prices on early orders. Elza Nolin, R. 3, Monroe, Iowa.

PARTRIDGE Wyandottes, part Premier strain, choice cockerels and pullets, few yearlings, reasonable prices. Ralph W. Owens, Mt. Pleasant, Ia.

good strong birds and great layers, and the price is remarkably low. See page 19.

—Mrs. Grant Gallaher, Spencer, Iowa, advertises some heavy-weight Bronze turkey on page 19.

—Barred Plymouth Rock cockerels are advertised by Mrs. O. J. Gross, Thornton, Iowa, on this page.

—Homer H. Todd, Alburnett, Iowa, advertises Indian Runner ducks on page 19 and quotes very low prices.

—White Plymouth Rock cockerels and pullets are advertised by B. W. Eckels, Nevada, Iowa. See this page.

—John O. Boyle, Pleasanton, Iowa, has Mammoth Bronze turkeys for sale. His advertisement appears on page 19.

—Single Comb White Leghorn cockerels at $1 each are advertised on page 19 by Mrs H. H. Hess, R. 2, Minier, Ill.

—Bourbon Red turkeys are offered at reasonable prices by N. J. Slater, Hazelton, Iowa, in advertisement on page 19.

—Barred Plymouth Rock cockerels and Single Comb Rhode Island Reds are offered by Mrs. C. A. Geisz, R. 1, Mt. Carroll, Ill.

—B. B. Bennett, Tripoli, Iowa, advertises White Holland turkeys on page 19. He has both toms and pens unrelated for sale.

—Scored and unscored Single Comb White Leghorn cockerels are advertised on page 19 by W. C. Kimball, R. 1, Shell Rock, Iowa.

—Choice Rhode Island Red and Buff Orpington cockerels are advertised for sale by C. R. & R. W. Steele, Ireton, Iowa, on page 18.

—F. B. Cobb, Tipton, Iowa, advertises White Chinese geese and Toulouse geese and quotes prices in an advertisement on page 19.

—Single Comb Buff Orpington cockerels from heavy laying strains are advertised by Mrs. Harry E. Johnson, Oakland, Iowa. See page 19.

—M. D. Korns, Hartwick, Iowa, advertises Single Comb White Orpington cockerels on this page and quotes reasonable prices on good birds.

—Choice Rose Comb Rhode Island Red cockerels at $1 each are offered for sale by Mrs. T. J. Link, Winterset, Iowa in her advertisement on page 18.

—On page 18 of The Homestead appears the advertisement of Eddith Andrews, Atlantic, Iowa, quoting prices on Single Comb Rhode Island Red cockerels.

—A. G. Canfield, R. 4, Kanawha, Iowa, announces on pag 18 that he has for sale Rose Comb Rhode Island cockerels and one registered yearling Holstein bull.

—Choice White Plymouth Rock cockerels at $1 each is the announcement made in the advertisement of Mrs. W. H. Royer, Dallas Center, Iowa, on this page.

—Seventy-five Buff Wyandotte cockerels of good color and size are advertised for sale by O. J. Reimers, Rock Rapids, Iowa, in his advertisement on this page.

—W. M. Black, Knoxville, Iowa, advertises Bluff Plymouth Rocks of the best breeding on this page of this paper. He has cockerels for sale at reasonable prices.

—Mrs. W. W. Scott, Salamus, Iowa, breeds Single Comb White Leghorns and has for sale hens and pullets as well as several fine cockerels. See advertisement on page 19.

—A. R. Cochran, Anita, Iowa, has for sale Single Comb White Leghorn cockerels. These are nice birds with large combs, yellow legs and good white plumage. See advertisement on page 19.

—Selma Shanander, R. 1, Pilot Mound, Iowa, advertises Single Comb White Orpingtons on page 19 and quotes unusually low prices on pens. She also has Mammoth Bronze turkeys and Single Comb White Leghorns.

—"The Barred Plymouth Rock cockerels I am advertising for sale," writes Alfred Marquardt, De Soto, Iowa, "have all had free range and are healthy. I am crowded for room and am pricing them at half their value. The first name gets them." See advertisement on this page.

—Mrs. W. F. Prather, R. 6, Atlantic, Iowa, sells White Wyandotte cockerels at reasonable prices as quoted in the advertisement on this page. The birds from this flock have been prize winners at the Iowa State Show, at the Big-Four Show and at local shows.

—H. P. Myers, Murray, Iowa, advertises Black Langshan and Buff Plymouth Rock cockerels on page 18. He has been breeding up his flocks for the past eight years and informs us that he now has cockerels from high scoring stock that are better than ever before.

—Tompkins strain of Single Comb Rhode Island Reds are offered for sale by P. H. Thiel, Renwick, Iowa, as per advertisement on page 18. This gentleman issues a descriptive circular which is good reading for any farmer who is interested in poultry. It is free.

—Ammy Bartow, Lynnville, Iowa, has Barred Plymouth Rock cockerels of the Bradley strain for sale at prices named in her advertisement on this page. She writes: "I will make a reduction on an order of more than two birds. Send in your orders early as breeding stock is scarce."

—In his separate advertisements in the Poultry Department of this paper, Earl Bloom, Bridgewater, Iowa, calls the attention of our readers to the fact that he has for sale Single Comb Brown Leghorn and Barred Plymouth Rock cockerels. He has 50 birds to select from. His Plymouth Rocks are large, well marked, with deep narrow barring, and will be sold at from $1.50 to $2.50 each, with a few extraordinary ones a little higher. He says his Leghorns are as good as the best and will be sold at $1 and up.

—Single Comb White Leghorn cockerels from prize-winning stock will be sold cheap by Mrs. C. J. Way, Bussey, Iowa, as per advertisement on page 19. She also has for sale some Single Comb Brown Leghorn pullets.

—In an announcement on page 18 F. M. Lane, Prescott, Iowa, announces that he has for sale Rose Comb Rhode Island Red cockerels, the big-boned sort that are vigorous, of good color and excellent lines of breeding. He quotes some very low prices in his advertisement.

—Eddith Andrews, Atlantic, Iowa, advertises range bred, large boned, Single Comb Rhode Island Red cockerels at $2 and up, and high-class, scored birds at $4 to $6. She states that these are bright, lively, healthy birds and bred from the best Tennessee and Georgia stock. See advertisement on page 18.

—Mrs. C. A. Robinson, R. 6, Griswold, Iowa, whose advertisement of Indian Runner ducks may be found on page 19, advises us that she has an extra flock of true fawn and white ducks of the Reinhard strain. Her winnings at the Villisca show indicate the character of the birds.

—Mrs. Frank Hoffman, Birmingham, Iowa, has for sale fine Rose Comb Silver Laced Wyandottes, and advertises them on this page. The quality of these birds is indicated by the fact that through previous advertisements in this paper her surplus stock has been quickly disposed of.

—O. H. Stilson, Corwith, Iowa, who has been breeding Langshan chickens for twenty years, and advertising them in The Homestead each year, makes a new announcement on page 18. He breeds Langshans exclusively and is prepared to furnish high-class cockerels and pullets at reasonable prices.

—Mrs. Wm. H. Nolin, Monroe, Iowa, announces in an advertisement on page 19 that her exhibit of Mammoth Bronze turkeys at the Iowa State Poultry and Pet Stock Show succeeded in winning first on young tom, second on old tom, second on hen and third on pullet. She still has stock for sale.

—A closing-out sale of White Wyandottes is advertised on this page by the Gregory farm. These birds are of the highest order of excellence and at the special prices quoted in the advertisement are bargains which cannot be obtained elsewhere. Send orders or inquiries to W. S. Gregory & Son, R. 2, Keota, Iowa.

—Choice Pekin ducks and White Wyandotte chickens, which are advertised on page 19 by E. S. Dyas are the owner says, the finest birds he ever raised. These pens have never been able to produce enough to supply the demand. Size and quality are responsible for it. For prices write to E. S. Dyas, Bellevue, Iowa.

—More than fifteen years, M. E. Kraft, Brooklyn, Iowa, has been engaged in raising pure-bred Buff Plymouth Rock Chickens. At the present time he has hens and cockerels good enough for breeding pens for exhibition, and will quote prices according to quality. Write for particulars. See advertisement on this page.

—S. B. Moyle, Hillsboro, Iowa, advertises Bourbon Red Turkeys, Single Comb Rhode Island Red cockerels on this page. The advertiser states that these birds are the best raised in five years. The prices are reasonable and the quality such as would justify the trade which last year disposed of all surplus stock with only two insertions of an advertisement on page 19.

—In three different advertisements in this paper, Mrs. Jennie Efnor advises our readers that she has for sale Single Comb Rhode Island Red cockerels, Mammoth Bronze turkeys and Indian Runner ducks. The birds of each of these breeds are described as unusually good and the prices quoted in the advertisement are very low. Address orders to Mrs. Jenny Efnor, R. 1, Monroe, Iowa.

—S. M. Compton, Newton, Iowa, whose advertisement appears on this page, writes: "I have been breeding White poultry for fifteen years and have been using the advertising columns of The Homestead for twelve years with good results. I have as fine a lot of White Rock cockerels and pullets this year as I ever raised, but only have a few White Holland turkeys and Embden geese. Write me your wants and I will try to please you."

—Some nice, heavy-boned, strong cockerels are being offered by W. B. Cooper, Milford, Neb. They are R. C. Rhode Island Reds and come from a strain that has taken a long time to perfect. They are priced so that farmers can buy and this is the class of trade that is appreciated. These birds are good enough to head good pens, but they are being priced at from $1 to $1.50 and should find immediate sale at those prices. Address W. B. Cooper, Milford, Neb. See advertisement on page 18.

—Fifty choice Barred Plymouth Rock cockerels and a few Golden Wyandottes are offered for sale by Judge J. L. Todd. These are from prize winners. These cockerels have been brought in from the farm where they had free range. The Plymouth Rocks are from the Royal Blue and Ideal strains. They are closely barred and good, lusty, healthy birds. Those who want to obtain birds with the best blood lines back of them can make no mistake in making their selections from the Todd flocks. At present he is crowded for room and for the next three weeks will make low prices in order to reduce numbers. Address inquiries to J. L. Todd, R. 3, Des Moines, Iowa. See advertisement on this page.

WYANDOTTES.

CLOSING OUT SALE OF White Wyandottes

HAVING sold our farm we will sell our entire flock of W. Wyandottes at BARGAIN prices, as follows: Hens and pullets $1.00 each or $10.00 per dozen; cocks and cockerels $1.50 each. Order at once from this "ad." Satisfaction guaranteed.

W. S. GREGORY & SON, R. 2, KEOTA, IA.

100 BUFF WYANDOTTES

FOR SALE—100 cockerels and pullets at prices that will suit everybody. Write me the kind you want and what you wish to pay and I will describe what I have for the money. Order now while you can get pick of the flock. Address **R. B. ROWE - - - INDIANOLA, IOWA**

WYANDOTTES

GOLDEN and Silver Laced. Premiums in 1913 Iowa State Fair, 5 firsts, 4 seconds, 4 thirds. Warren county fair, 8 firsts, 7 seconds; sweepstakes cock, hen and pullet over all breeds. Stock and eggs for sale in season. A. L. Anderson, Indianola, Iowa

Silver Wyandotte Cockerels Choicely marked large birds $3 each. Good ones $2 each. Twenty-six years a breeder. **O. M. HEALY - - - BEDFORD, IOWA**

SILVER LACED WYANDOTTE Cockerels for sale, fine Rose Combs, good markings, weight from six to eight pounds, $2 each or three for $5. Mrs Frank Hoffman, Birmingham, Ia.

PARTRIDGE WYANDOTTES High-class, high-scoring birds, scoring up to 94½ points. **ED MEYER, DYERSVILLE, IOWA.**

SILVER WYANDOTTES exclusively, scoring from 90 to 92½. Choice ckls. at reasonable rates. Glenn and Mae McLaughlin, R. 5, Manning, Iowa.

WHITE WYANDOTTES and White Holland turkeys, scoring from 90 to 95 points. Write for prices. Address Mrs. C. S. McLachlin, Gray, Ia.

PARTRIDGE WYANDOTTE and Buff Wyandotte cockerels. Both breeding and fancy stock. Write your wants. Thos. L. Morlan, Indianola, Ia.

WHITE Wyandottes, large, vigorous, high-scoring, farm-raised ckls, $2 to $5 ea. Also few hens and pullets, Mrs. W. F. Prather, R. 6, Atlantic, Ia.

SILVER LACED WYANDOTTE cockerels— if taken before Dec. 25th at $1 each, or after that date at $1.25 each. Write C. Van Zante, Pella, Iowa.

FOR SALE—Golden and Silver Laced Wyandotte cockerels, Hampshire boars and registered Morgan mares. Walter N. Brown, Shannon City, Iowa

SEVENTY-FIVE choice White Wyandotte cockerels for sale at reasonable prices. Satisfaction guaranteed Address Lawton Reiling, Bellevue, Ia.

SILVER WYANDOTTE COCKERELS, bred from good utility stock, for sale at $2 each. Address **Lawrence Kiplinger, Bedford, Iowa.**

For Sale White and Silver Laced Wyandotte cockerels. Good color and good bone, $1.50 ea. **Malmberg Bros., Route 4, Red Oak, Iowa.**

R. C. W. Wyandotte cockerels $1 to $1.50 each. Won 1st on cock, 1st on hen, Lincoln, 1913. Price list free. Carl Ehlers, R. 3, Gretna, Nebraska.

FAHA'S Silver Wyandottes; great stock reduction sale now on; 200 young Silvers; bargain prices. Write wants. Frank Faha, Jr., Bx.626, Dyersville, Ia.

WHITE WYANDOTTES. Choice pullets and ckls. for sale. Geo. W. Livingston, Monroe, Ia.

SILVER LACED Wyandotte cockerels, Rouen ducks, Fawn and White I. R. ducks. Mrs. H. J. Miner, Route 3, Wayne, Neb.

SILVER LACED WYANDOTTES 100 cockerels from laying strains. Address **G. H. BURGE, MT. VERNON, IA.**

FOR SALE 75 Buff Wyandotte ckls., good color and size, $1 to $2 ea. Write your wants. **O. J. REIMERS - ROCK RAPIDS, IOWA.**

MISCELLANEOUS.

55 BREEDS

FINE PURE BRED POULTRY, Ducks, Geese, Turkeys, Collie Dogs. A lifetime experience with poultry. Send 4c for my big book and price list. Write us for anything in the poultry line—we are headquarters. **H. H. HINIKER, Box 32 Mankato, Minn.**

WALNUT HILL POULTRY FARM LIGHT Brahmas, White Langshans, both sexes. A few black Langshan cockerels, a few Buff Cochins, a few white Cochin Bantams. Won 17 premiums at the Iowa State Fair. Address **WEIR HART, BONDURANT, IOWA.**

PFILE'S 65 Varieties LAND and Water Fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1914 Write **Henry Pfile, Box 621, Freeport, Ill.**

52 VARIETIES of chickens, ducks geese and turkeys. Birds score 90 to 96¼ by Todd. Thousands of blue ribbons and first sweepstake prize two years in succession. Largest poultry farm in northern Iowa. 4-ct stamp for catalog. **E. & J. W. Trettin, Grafton, Iowa**

48 BREEDS, fine pure bred chickens, ducks, geese turkeys and guineas, at low prices. America's finest poultry farm. Circular free. Large catalog 4 cents. **Alf. Ziemer, Austin, Minn.**

BARGAINS in all varieties Wyandottes, Orpingtons, Minorcas, Reds, Rocks, ducks, geese, turkeys. Progressive Poultry Farm, Bx.10, Hampton, Ia.

When writing to advertisers please mention The Homestead.

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

"Oh, he is a good fellow and everybody likes him, but he has never done any good." This by a good friend and neighbor of the man in question, whose remark carried nothing of censure. But—he had never "done any good."

When we hear of a failure in the world, a mental picture is involuntarily drawn of a harmless, ambling, good-natured sort of fellow, who kindly permits his family to do the hustling while he does the moralizing and, incidentally, the whittling.

As a boy this supposed failure cared for his aged parents, whose only legacy they bequeathed was that of honor and integrity. As a young husband and father he was ideal. His crops were never any better than his neighbors, the country was new and raw, no one had a good house to live in, but somehow he and his wife always managed to live a little better than anyone else under similar circumstances. Everyone had enough to eat, but the deft hand of the wife and mother evolved dishes that were both dainty and palatable, from exactly the same food that all too often was cooked, and, figuratively speaking, thrown on the table.

Everyone practically wore the same kind of clothes; the children of this family, although no more money was spent, presented a far different appearance. Little individual touches were added to the clothing which transformed the cheapest cloth to a thing of beauty. Rugs were crocheted to lay on the ugly, uneven floors; tablecloths made from the cheapest of unbleached muslin were caused to speak for themselves by some little touch of handiwork. It was in this atmosphere that the children received their first impressions. A home where love, peace, hospitality, and, despite the unlovely surroundings, beauty reigned.

When the eldest child was only ten the mother was suddenly taken ill and died, thus severing a companionship that was as nearly perfect as the world ever knows. The family had moved to town, where the father was a salaried employe. Far better that they did. Not all men are meant to be farmers, and this fact applies to this one in particular.

Arrangements were made whereby the rent, that was being paid each month, was used as payment on a cottage of their own. Almost all of the work of building was done by the father with the aid of a very moderate-priced helper. The tiny home contained only three rooms, but never did that much space count for more. The living room faced the south, and the only extravagance was the bay window, which, in reality, consisted of the whole side of the house. With the expenditure of $1 for plants to start a window flower garden this room in a short time became a perfect bower of beauty.

Then came the trying part—that of keeping the children together. The work at the store was very exacting, requiring long hours; the duties at the house were manifold. Anyone acquainted with children can understand about how much four children, from a wee tot to ten years old, can do in the business of keeping house. Not only that: Problems appeared on the scene that had no reference whatever to the actual work. The older the kiddies grew the more serious and complicated did these questions become. These were solved, not by moral lectures, neither by harshness, but by becoming one of the youngsters, and thus "beating the time" of every other kid in town.

Each and every one of these young people had the opportunity for a high-school education. For the most part they finished school, and all made good. Today they are settled near the home, where one daughter yet stays. The grandchildren vie with each other as to who can do the most for him. If the lion's share of something good for dinner is missing, no questions are asked; the mother well knows it has been "swiped for grandpa." This man, who filled the place of both father and mother to his own children, is today a brother and chum to two generations. He simply refuses to grow old, and well do the many members of the family know that "We'll never get anything on dad."

He does not own an automobile; the price of a good touring car went to keep a brother, suffering from an incurable disease, as comfortable as possible, through the terrible years of pain. No penniless boy, when a show struck town, ever got left out. From somewhere there came the "price." The deserving and the undeserving, share and share alike, they are all here and they want to see the show. As of old, the home is hospitably open; and as then everyone, the rich and the poor, the high and the low, is eager to take advantage of this fact. "Y-e-s, that's all so—even more—b-u-t—well, you see he had the same opportunity to own a quarter section of this $250-an-acre land as the rest of us!"

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Fight when you are down; die hard—determine at least to do—and you won't die at all.—James H. West.

It's the song ye sing, and the smiles ye wear,
That's makin' the sun shine everywhere.
—James Whitcomb Riley.

HOMESPUN WRINKLES.

Anyone who has tried to get the juice from a lemon not wholly ripe can understand what it means. If this kind of fruit is placed in the oven a short time the juice is more easily procured, and much more of it.

Nail two spools to the wall, about two inches apart; hang the broom upside down between them. This makes a better broom holder than any agent can offer you for a hard-earned quarter.

This is how one cook makes the most of a boiled ham: Before the ham is cold she removes the bone and fills the hollow with the small pieces left from the cutting. The whole is then tied up tight; when cool the whole can be sliced without a particle of waste.

When the weather is cold, the washings big, and the cold gets into your bones, try soaking the clothes in naphtha soap or powder. The dirt will fairly drop out, and the steam incident to the washing machine and its bushels of water will be eliminated. Not the orthodox way, perhaps, but a saver of womankind.

It is a beautiful thing to live. Life is a fine art. It is the supreme consummation of all the arts, the final finish and flower.—Lillian Whiting.

These are the things I prize
And hold of deepest worth:
Light of the sapphire skies,
Shelter of the forest, comfort of the grass,
Shadow of clouds that swiftly pass,
And after showers,
The smell of flowers,
And of the good brown earth,
And best of all along the way,
Friendship and mirth.

THINGS GOOD TO EAT.

Hashed Brown Potatoes.—Peel and dice some raw potatoes. Boil until tender, and drain off the water. Pour into a baking dish, and nearly cover with a rich cream sauce. Cover and bake in a rather hot oven. Uncover and brown the last ten minutes. Good to serve with cold meats. This together with graham gems and fruit, make a wholesome, satisfying meal.

Left-Over Chicken.—If some of the sauce and chicken should be left over, try scalloping them with a can of tomatoes. Place a layer of the tomatoes in the bottom of a pudding dish, cover with a layer of rolled crackers and bits of butter. Mix the chicken and sauce, and spread over the tomatoes. Alternate with the tomatoes and chicken until all are used. Place a layer of crackers last, crushed and dotted with butter. Bake in a moderate oven, being careful to brown top.

Quick Graham Bread.—Two cups graham flour, one cup white flour, one-half teaspoonful salt. Sift all together. Add two large tablespoonfuls molasses, and two cups sour milk, in which one teaspoonful soda has been dissolved. Mix to rather stiff batter, turn into greased pan and bake. It may not require all of the milk. Should be baked in a slow oven.

Lemon Apple Pie.—This pie is good to help splice out a rapidly diminishing supply of fruit. Grate the rind, and strain the juice of two lemons; pare

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core and chop one large tart apple. Pound two crackers very fine, and mix with two teaspoonfuls melted butter. Beat the yolks of four eggs to a thick froth, and mix all ingredients together. Beat thoroughly, and bake with one crust. When done, beat the whites of the eggs to a stiff froth, add four tablespoonfuls powdered sugar. Spread lightly over the pies, set in oven until a light brown.

AMONG OURSELVES.

This letter is given first place because it needs immediate attention. Dear members, do not pass it by with a glance. The writer signs herself "Lonesome Girl."

I need advice and come to Among Ourselves, hoping to hear from several members soon. I am a well-to-do farmer's daughter, twenty-five years of age. My life has been spent at home, helping mother with the work that falls to the lot of any farm woman. I attended the rural school until I was fourteen, and had completed the seventh grade. That is the extent of my schooling, and I have always craved an education. I can do almost any kind of sewing, though I was not taught by mother or anyone else. Just "picked it up." We have lived in this state since last spring. The other years were spent in an adjoining state, and it is there that all of my friends live. This is a very lonesome country, with nothing but foreigners for neighbors. These people will associate with no one but their own kind. We, so far, have had no visitors, and I have not been introduced to a single person since we came here. There is no church at all like our own denomination to attend, and I feel shut out of the world. We live on our own farm, and I have a nice home. The advice I want is this: Should I leave home, or should I not? I am the only daughter, there are seven boys, all older than I. All are married excepting the youngest, and he will be married in two years, and will get the home place. They make fun of me because I am not married, and call me "an old maid." This kind of treatment often brings bitter tears, because I have turned away good, as well as wealthy young men, so as not to leave mother. I realize my mistake now; no one seems to understand the sacrifice. Recently I was offered an honor scholarship to the Normal school of our state—shall I accept it, or should I go back to our old home town and get a position to work? Do you think it would look right for me to do this? My parents would like to see me married, but there are no congenial young men here. I am going to leave here the latter part of January for a visit to the old home. Now, dear readers, shall I stay there, or come back here?

It is with much gratification that an answer has been received to the call not long since, asking for plans to save the time and strength of farm women. Mrs. Crouse is a farm woman who is right in the busy time of corn husking. This letter is very practical, and says:

Having had twenty-three years' experience in corn husking, I will add my mite. My family is nearly grown, I have good health and get much happiness from their company. For the first three years I had few labor-saving devices. They seemed to be out of the question in those days. But while my children were small, I kept a girl to help through the busy season, knowing this was better than to overdo and neglect the children. Girls were easier to get then, and the wages much cheaper—so was corn. We did not have school during corn picking. As soon as the three older children, a boy and two girls, were strong enough they helped pick, as it was very hard to get men. With the help of a girl, the two younger children and a gasoline engine to wash, I got along very well. There are so many things the tots can do if we but put them at it. In these days of good crops and prices I do not see why the farm woman should overdo. She should have every labor-saving device available. I find the use of linoleum and rugs to be expensive, but they are great labor savers, also the vacuum cleaner. The dish washer is liked by a great many, although I do not use it. The water should be in the house. The cost is small. A wash house is fine; it need not be very large, but should be well equipped. Mine has a fifteen-gallon heater, a good washer, wringer and a gasoline engine. This saves the tidy kitchen, as well as the trouble and strength to carry things in and out again. We can't all afford modern homes, but the farmers can surely afford the modern labor-saving devices for the homes they have. My advice to the women of the corn belt is to demand these things; then by good management you can get through the busy season none the worse for the wear.

Until we impress the fact, our men folks will never realize the actual need of help for the wife and mother. They have troubles of their own, and cannot possibly understand what it means to keep the house work up. When everything is done it just looks as if it had always been done. Of all deceiving things house work is the limit. This thing of a woman doing without the actual necessaries that are required to do her work is more the result of tradition than anyone's fault. Time was when times were so hard that little could be purchased, and what little money was available would be used for necessary tools to plant the crop, not from a sense of unfairness, but because no crop, no anything—not even enough to eat. People get so accustomed to this order of things, that it is hard to break over the old custom. Men, even the most thoughtful, cannot wholly understand, and so it is "up to us women."

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SINCERITY.

To be sincere. To look life in the eyes
With calm, undrooping gaze, Always to mean
The high and truthful thing. Never to screen
Behind the unmeant word, the sharp surprise
Of cunning, never tell the little lies
Of look or thought. Always to choose between
The true and small, the true and large, serene
And high above life's cheap dishonesties.

The soul that steers by this unfading star,
Needs never other compass. All the far
Wide waste shall blaze with guiding light, though rocks
And sirens meet and mock its straining gaze.
Secure from storms and all life's battle shocks,
It shall not turn from any righteous ways.

It is too bad, but no doubt our boys and girls have heard expressions like this: "No business can be carried on successfully if one is wholly truthful. You are bound, more or less, to tell falsehoods." Now, boys, to use your own expression, "There's nothing to it."

Falsehood and pretense may gain one point, with the result that it will be used against you ever after. If a man cheats, or is in any way dishonorable, even though he stays within the limit of the law, he is just as much a thief as if he had been sent to prison. Compare the man who is tricky and deceitful with one who believes in being "straight" whether it brings him any money or not. Look carefully at their faces. On the one you will see lines of cunning and greed. In the other there is a sincerity that cannot be mistaken. It is difficult to distinguish by the lines on a young face; it is after it grows older that the lines tell the story. And the worst of it is, that once formed they can never be removed.

These lines begin to form early in life; a boy, little more than a baby, thought it lots of fun to throw coal at a kitten. So interested did he become that he placed a pan of milk near, and hid, so that when the little creature came to drink he could "get him." Right there that youngster began to cause lines of cruelty to form. Luckily his mother appeared on the scene; what happened would be as well left untold. Later the lad was heard to soliloquize: "Mamma never scolded one word when I broke her bestest china pitcher, and it was better than that measly little cat—it'll get big and catch chickens; wonder if my mother is getting fussy? She said I was a sneak—Oh! that's what a cat is that pretends to like to play with chickens, and then kills 'em. Say! no more 'sneak' for me!"

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HOW TO BE KIND.

(First Prize.)

By treating old people as kindly as we do the young. Be cheerful, be honest, and you will be happy. Never speak disrespectfully to, or of, anyone.

There are boys who think it smart to throw stones at a dog, or tie tin cans to their tails. These are the very first ones to howl when anyone touches them. There will be a time when they will have to suffer for what they have passed on to others.

A boy or girl should not wish to be paid for doing a favor; there is a time coming when we will be old, and time goes so fast that I am thinking it won't be very long coming.

This story is short, and kind of rough, but it is the plain truth. While I am not as good as I should be, I am not guilty of any of the things I have mentioned. —William Dunn.

[None of us are as good as we should be, my boy, but your letter is splendid. It is easily known what kind of man this boy of ours will make. Your letter is not rough, either, it is only boyish; if all boys were girls, why, there wouldn't be any boys! The editor is glad to find the boys' letters among the others. Do try to remember, boys, that this department is for both boys and girls.]

A Christmas Story.

(Second Prize.)

It was just the day before Christmas, and all of the little men in Santa Claus' castle were busy tying up toys. One was tying a large box which held a beautiful doll, whose hair was a mass of golden curls; she had blue eyes and a rosebud mouth. There were many beautiful dresses for her, too.

Another was tying a drum, and another a pair of skates. All of them were busy. Old Santa himself was putting the finishing touches to a doll house.

They had worked all year on the toys, and so were getting tired. Mrs. Santa Claus yet had a doll's hood to make, when all would be in readiness.

Four of the little men were hitching the reindeer to the sleigh. They drove to Santa's castle, and began to pile on the Christmas gifts, until the sleigh was supposed to be full. But it seemed that there was always room for more. To and fro ran the little men until the last package was stowed away.

With a merry laugh Old Santa climbed into the seat, tucked the thick robes around him, cracked his whip and started on his journey around the world, to fill the waiting stockings.

—Grace Hand, age 14 years.

The Orphans' Thanksgiving Barrel.

(Third Prize.)

Well, Thanksgiving day for 1913 has passed, but Christmas is yet to come. I was much interested in the first prize story last week and the editor's remarks as well.

About two weeks ago the ladies of our church decided to send a Thanksgiving barrel to an orphan's home of a near-by city. The ladies' aid pieced two comforts and one quilt, and two teachers sent two dozen handkerchiefs. Two other girls donated a dozen stockings, and the men of the church put all the pennies their stores happened to have into the different stockings.

Besides this there were nine stocking caps, a nice pair of blankets, some pumpkins, a gallon of jelly, apples and other fruit. Then there were dresses, and other clothing. I gave a nice dress that I had outgrown. Many other things were sent, all of which were nice and in good repair.

They were all packed tightly in a barrel, and sent in the name of the Sabbath school. We have not yet heard from them, but we sincerely hope it was all right.

—Doris Tipler.

[Of course it was all right, Doris, and we thank you for so kindly telling us about it. It may help some one else to do something of this kind.]

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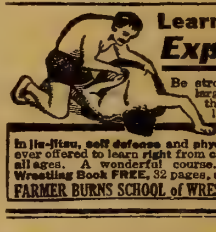

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PRIZES IN A PREVIOUS CONTEST.

To Tantalize.

(First Prize.)

You have often heard the expression, "You tantalize me." We often hear the word used. This is its origin: In olden times, when men believed in myths, this story was prominent among others. There once lived a cruel king, who ill treated his subjects, and insulted the gods, by cooking and trying to serve up to them his son. All of the gods were undeceived, excepting one, who ate a part of the boy's shoulder. The gods restored the child to life, and when Tantalus died he was sent to Tartarus, the abode of the wicked dead. He was placed in a stream of pure, cold water, up to his neck. Over his head hung all manner of delicious fruit. When he tried to drink, the water vanished. When he tried to reach the fruit, it eluded his grasp. In this position he was compelled to stay, unable to quench his thirst, or satisfy his ravenous appetite. From this story you may see that "tantalize" means to place in a trying position of worry and torment.

[Every one who imposes on others, sooner or later will suffer for it; it is only the weak and cowardly who take advantage of a fellow creature or a dumb animal.]

A True Story of a Wildcat.

(Second Prize.)

It was a warm day in November, and I was standing in the door, looking into the field, when I saw what seemed to be a very large cat. I

called my mother, and we started out here, but when it saw us coming it went into some tall brush.

We thought it had gone, but about two hours later, when the sun was shining brightly, it came out again, and began to play just like a kitten. We began to think it was a wildcat. Neither my father nor brother was at home, and so we got a neighbor boy to bring his gun. By that time the cat had started through the field, and it was easy to know that it was a wildcat.

The boy got quite close to it, and the cat faced him, creeping closer and closer, getting ready to spring. The boy tried to get behind him, but he ran to the woods, and some hunters tried to get him, but they could not find him. —Butterfly, Wis.

Friendship.

(Third Prize.)

Ada and Helen were very good friends. One day Helen said that she was "mad" at Ada. She showed it, too, and called her playmate hard names. This caused Ada to be very unhappy, because she did not know why Helen acted so.

The next week Helen was to give a party, and Ada knew that she would not be invited; she was not angry at her friend, though, and purchased a book, entitled, "Love and Friendship," and sent it so it would reach Helen the day of the party. Helen and her friends were having a good time when she saw the postman coming. He handed her a package and she hastened to open it. When she saw the book she was glad, but when she saw who it was from, she was sad. She wrote a note and sent it to Ada, asking her to please forgive her and come to her birthday. Ada was above petty spite, and came. Helen says that was the happiest birthday she ever had. —Effie Ottens.

More and more, our young folks, bless their hearts, are thinking of ways and means to help those who would otherwise not have much Christmas. The holidays have been described as a spirit instead of a season, and our girls and boys surely have caught the "spirit." There is some little time yet to help someone know the meaning of the day.

If each one of our millions of young people would bring a little good cheer into the life of just one unfortunate what a world of good would be done! Do something, children, if nothing more than to run in and shout "merry Christmas!" to some one who is old, whose family and friends have all passed over, and whom the present generation has forgotten. There are many such. Some of them have splendid houses to live in, and for this very reason they are overlooked.

People, for the most part, think that if one has every practical need fulfilled they wish for nothing else. Of all hunger, heart hunger is the worst; it may be because we so often find it among the aged, who can no longer take an active part in the world. It's coming to us—you and everyone else. Just as we sow, just so shall we reap. So let us sow seeds of love and kindness while we may.

Expert automobile mechanics get $100 to $150 a month, demonstrators and salesmen more. Good jobs are going begging—there are not enough experienced men to fill them—because the automobile industry is growing faster than men can be trained. Equip yourself for a good salary as expert mechanic or for entering the automobile business for yourself. Ours is the largest and best equipped auto school in the west, the only school in Nebraska with its large building devoted entirely to automobile training. Complete machine shops, all accessories, many makes of autos. Individual experience in large touring cars. Write for booklet.

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PLEASANT FIELDS OF HOLY WRIT

Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 12. John 1: 1-18, Dec. 21, 1913

CHRISTMAS LESSON.

There is not in literature a finer example of adaptation of style to subject. The noblest and profoundest thought is here clothed in language ample and royal. What the Sistine frescoes are in art, this paragraph is in written speech. Yet with all this stateliness there is an inherent simplicity. The similarity between the opening of the book of Genesis and the opening of John's Gospel will be readily recognized. The prologue is in the form of Hebrew poetry, which consists largely of the recurrence to previously expressed thoughts, with altered phrase and added meaning. It may be paraphrased as follows: As the articulate word drops from the lip of speaker on ear of hearer, so the Messiah comes from God to man. He is the vehicle of a meaning. Not, however, an unconscious and voluntary vehicle. For the Word had an eternal existence with God. He was God from the beginning. So, far from being a mere wave of air, as an articulated word is, he is a Person; one possessing, too, infinite power and intelligence; for all things were made by I im, and apart from Him not even one thing came into being. This Logos is source of life and light for men. He kept shining by various means into the moral darkness of humanity, but it could not apprehend him. It was like a lamp trying to penetrate a fog. In the fullness of time, however, there came a herald—John Baptist—in all respects worthy of his transcendent office. His mission was to announce the coming of the Light who had already imparted something of himself to men, one by one, as they had come into the world. For he was all the while imminent in the world which he had made, although unrecognized. Now, at length, in the incarnation, he came visibly in a form most easily recognizable to a people prepared to apprehend him by long-continued and gracious dispensations. As far as the mass was concerned, however, it was a failure. In their obduracy of heart they received him not. But to such as did "take of him," appropriating him by faith as a Savior, he gave the right to become inheritors of the divine nature. Such as are begotten of God, not merely of a race (literally bloods) supposed to be privileged above others, or human nature in general (flesh), or of some particular father (man). Now comes the climax. It is a logical conclusion, transfused, with a doxology. The glorious Person whom the evangelist had described in metaphor as a word spoken by God to man, condescends to a human birth, in order that he may thus utter his Father's message. He sojourns, he tents awhile (thirty-three years) with humanity. We are eye-witnesses of this manifestation of the divine glory, a glory, a fullness of grace and truth becoming in all respects to God's only Son.

Several congressmen, notably among them being McKellar, are active in trying to get the government to regulate the cold storage combine. The remedy would be bills, which would prohibit the holding of foods in cold storage a longer period than ninety days, regulate the interstate shipment of cold-storage products and require conspicuous labeling to show the time of storing.

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6466 Ladies' Night Gown.—This dainty gown is made with two small tucks at each shoulder in front and with a shallow, pointed yoke in the back. The neck is a little open above the front closing. The bishop sleeves are a trifle full at the shoulder and also at the wrist.

The pattern 6466 is cut in sizes 34 to 42 inches bust measure. Medium size requires 5⅛ yards of 36-inch material. Price ot pattern 10 cents.

5630 Ladies' Apron.—Linen, gingham, chambray or percale can be used to make this garment. It can also be used as a house dress as it is made just like one. The closing is at the left side of the front. The dress is made with a low neck and short sleeves.

The pattern 5630 is cut in sizes 32 to 42 inches bust measure. Medium size requires 5½ yards of 36-inch material and ¾ yard of insertion. Price of pattern 10 cents.

5904 Ladies' Skirt.—This skirt can be used to complete a coat suit or it can be worn with separate shirt-waists. The skirt is cut in seven gores and can be made with either the high or regulation waistline and with the inverted plait or habit back.

The pattern 5904 is cut in sizes 22 to 30 inches waist measure. Medium size requires 4⅝ yards of 36-inch material. Price of pattern 10 cents.

5991 Girls' Dress.—Serge, cheviot or linen can be used to make this dress with trimming of buttons. The dress closes at the right side of the front. The skirt is made in three pieces and the pattern provides for a removable shield.

The pattern 5991 is cut in sizes 6, 8, 10 and 12 years. Size 8 years requires 2½ yards of 44-inch material. Price of pattern 10 cents.

5231 Billy Possum.—Now is the time to make Christmas presents for the little children and here is an excellent pattern for making a Billy Possum. This possum is made with movable head and legs. Any of the furry materials can be used for the possum.

The pattern 5231 is cut in one size and requires ¼ yard of 44-inch material and ⅛ yard of 18-inch felt. Price of pattern 10 cents.

5947 Boys' Suit.—Serge, cheviot or linen can be used to make this suit with the collar and belt of contrasting material. The blouse closes at the front in Duchess style and the trousers can be finished with either leg bands or elastics.

The pattern 5947 is cut in sizes 2, 4 and 6 years. Age 4 years requires 3½ yards of 27-inch material and ⅜ yard of 27-inch contrasting material. Price of pattern 10 cents.

CONCRETE ROADS FOR THE FARMER.

(Continued from page 3.)

is not sufficiently wide to care for the faster travel, particularly when we consider that motor trucks are from two to three feet wider than the average wagon. However, only a limited mileage of roads will be needed for double track traffic. At short distances from large centers, a road may carry a large number of vehicles, but, as a rule, the bulk of traffic at a given hour is in the same direction, so that the passing of vehicles is infrequent. Sixteen feet is wide enough in such localities, for it will allow vehicles to pass at a moderate rate of speed.

Concrete, with two feet of stone shoulders on each side, will give the higher speed vehicles room to turn out for the loaded vehicles without obliging the latter to leave the concrete. The higher speed vehicles may also remain on the concrete if the speed is reduced.

As the distance from populous centers increases, traffic lessens. It also keeps more to the middle of the road and the passing of vehicles is far less frequent. Such localities will find satisfactory a nine-foot road with four-foot macadam shoulders on each side. This width will give plenty of room for vehicles to pass without getting on the earth shoulders, while the nine feet of concrete will take all the severe wear. The effect of the occasional turning out and passing upon the macadam shoulders will be very insignificant in so far as it affects the macadam.

There are also many roads which will carry very little traffic, but which must be built to keep the farmer out of the mud in order that he may get to market in all seasons. These may be of concrete eight feet wide, and shoulders three and one-half feet wide. A road similar to this was built in Winona county, Minn., under the supervision of the state highway commissioner. It is sixteen miles long and was built for approximately $7,500 per mile, or about $1,000 per mile less than the price bid on a macadam road. At Red Oak and Washington, Iowa, country roads twelve and nine feet wide were built at a cost of $1.27 and 98c per square yard respectively. Forty-five miles of state road in Maryland cost from $1.10 to $1.25 per square yard and work done in Illinois under the state department cost about $1.00 per square yard.

A concrete pavement was built in Bellefontaine, Ohio, in 1893, under specifications used for sidewalk construction. The pavement was cut into blocks five feet square. The only wear perceptible today is at the longitudinal joints, the surface of the blocks being perfect. Under the present-day practice, construction of this type is not used, and, consequently, still better results are obtained.

It is the conviction of many who have given careful study to the road problem that the farmers of the United States will eventually insist upon roads of this type. The farmers using them at the present are so enthusiastic in their commendation that it is certain to be communicated to other localities. A few of the advantages of the concrete road from the farmer's point of view are as follows:

Vastly increased pulling capacity of a team.

A smooth but gritty surface upon which horses never slip or fall.

Wear and tear reduced to the minimum.

Roads passable at all seasons of the year.

Roads that are ever free from mud and dust.

Great saving in time in making hauls.

Roads that answer for a sidewalk as well as a road.

But the economy of the concrete road itself is the great factor. Farmers in the West figure that a $6,000 a mile macadam road will cost at the very least $300 a mile for maintenance, if subject to automobile traffic. They regard a road as an investment and consider that this $300 annual outlay represents interest on $6,000 at 5 per cent, thus making the actual investment $12,000 a mile, which is the average cost of concrete roads having all the advantages enumerated above, and which, in very few instances, have exceeded $25 per mile per year for maintenance. When many miles of roadway are considered, the economy represented by concrete over macadam is tremendous. For example, let it be assumed that 500 miles of road are to be built during a period of five years at the rate of 100 miles per year, and that repairs will not be required on either type of road for two years. Beginning, then, at the third year, and estimating maintenance costs for concrete at $25 per mile per year, the total maintenance cost on 500 miles of concrete road would, at the expiration of seven years, be only $37,500. In the case of macadam, basing costs on New York and New Jersey figures, which have exceeded $900 per mile per year, repair cost would reach the enormous total of $1,350,000.

But when the explanation is made the durability of the concrete road ceases to be so astounding. It is due to the fact that the stone is held together by that tenacious and indestructible binding material, Portland cement. The Romans built roads that have lasted for centuries. Scientists discovered that their extreme durability lay in their binding material. Instead of holding their roads together with clay, rock-dust and other easily displaced binding material, such as we use on common macadam roads, the Romans used puzzolan, a form of cement that has also kept intact through centuries their wonderful buildings.

For the reason cited above, farmers are turning to concrete as the solution of one of the most vexing problems with which they have to deal. But they are not doing so on merely hearsay evidence. Their convictions are based on observation and experience of fellow farmers who have used the roads, who know what they cost, how durable they are and how thoroughly they meet the requirements of every rural community.

THE BUTTERNUT IS PASSING AWAY.

Now that nutting time is here, it is observed probably for the first time that the white walnut, better known as the butternut, is about extinct, at least in this part of the country, says the Wabash (Ind.) Plain Dealer. About all the older trees have died off, and there seems to be very few younger trees of this species. The passing of the day when the butternut was a common sight is very much regretted, especially by the schoolboy, as he hears his father tell of days when he went to the woods and gathered them by the bushel. Many of the older folk are also sorry to see these trees disappear, as the kernel of this nut is considered rather delicious, as well as very nutritious.

This tree is a native of America, and grows to a height of from fifty to eighty feet, having gray bark and compounded pubescent leaves, oblong, ribbed, green nuts which ripen in September and October. The wood of this tree is more exempt from insects than any other nut tree, thus making it valuable for shipbuilding, gymnasium stocks, cabinet work and interior finish of houses, but it is still less popular than the black walnut, which is also rapidly disappearing.

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from a tank that is bound to get foul, when it costs but 5c a thousand gallons for pure water "direct from well" with the

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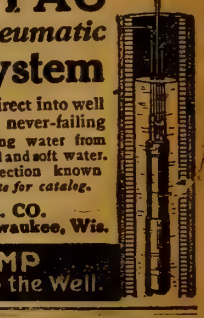

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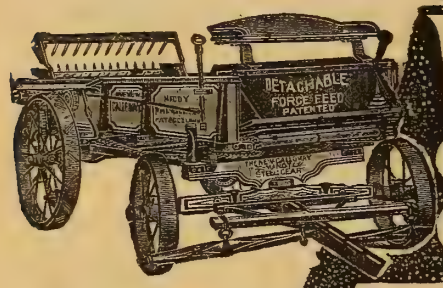

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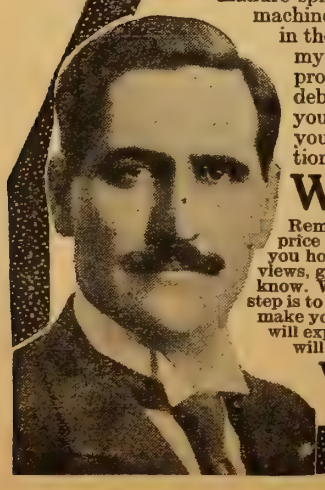

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SECRETARY HOUSTON ON FARM NEEDS.

In many directions further production waits on better distribution, and the field of distribution presents problems which raise in very grave ways the simple issue of justice. Under existing conditions the farmer does not get what he should for his product; the consumer is required to pay the existing systems of distribution. No one can see offhand just what part of the burden is due to lack of systematic planning or inefficiency, economic waste, or to unfair manipulation. The report outlines the projects in this field as covering marketing surveys, methods and costs of marketing, including available market supplies in given production areas, demand at consuming centers, cold and other methods of storage, marketing systems and prices, and costs of wholesale and retail distribution of farm products. Other studies in this branch include: investigation of transportation problems and the elimination of waste in shipment, study of city marketing and distribution, study of grades, and finally co-operative production and marketing. The necessity for standardizing agricultural products as a prerequisite to proper marketing is given special emphasis. The adoption and universal application of one uniform standard for cotton would result in great simplification of all transactions, and do away with the complex methods of figuring buyers' limits. Practically the same results would follow and the same evils would be removed if standard grades for corn were universally adopted.

The individual farmer acting alone is helpless before the problems of rural credit and of marketing. Concerted action is essential. In co-operative effort, equity and justice must be kept in mind. Co-operation does not mean that an organization shall attempt to establish a closed market and to fix prices. This should be condemned as strongly in one field of industry as in any other.

It is recommended that provision be made for the establishment of grading standards for various farm products and for the promulgation of the standards already established by the department for cotton and corn grades.

Conditions vary widely in the United States. Farmers do not equally need better credit arrangements and all sections are not similarly circumstanced. The report cites the variation of the interest paid by farmers on long and short-time loans as among states and as among different sections of the same area. Among the many factors entering into these variations are climatic conditions, soil conditions, stability of industry, methods of farming, distance from markets, distance from centers of large wealth, the nature of financial agencies through which capital is secured.

When all necessary allowance has been made for these fundamental factors, it is probably clear that the rural communities are not as efficiently served as they should be by existing financial arrangements. Long-time loans are needed for permanent investments, such as the purchase price of a farm or for the erection of buildings. It is wise economy to encourage the extension of credit for safe productive use, and no less wise to discourage the use of capital along non-productive or speculative lines. The rapid increase in farm values and the difficulties in securing land has given impetus to the growth of the renting system. It is this tendency that suggests the importance of devising farm loans on terms such as will enable the producers to make the necessary payments on the interest and principal, so far as possible, from the returns of the land itself.

While there is undoubtedly a scarcity of meat the world over, yet there are great possibilities for increasing meat production in South America. The alfalfa crop is rapidly coming to the front in that country and is used very extensively for pasture purposes as well as for hay. This does not mean that the American market is to be glutted some time in the future with South American cattle, but it does mean that there is a country whose presence on the map the American feeder must recognize.

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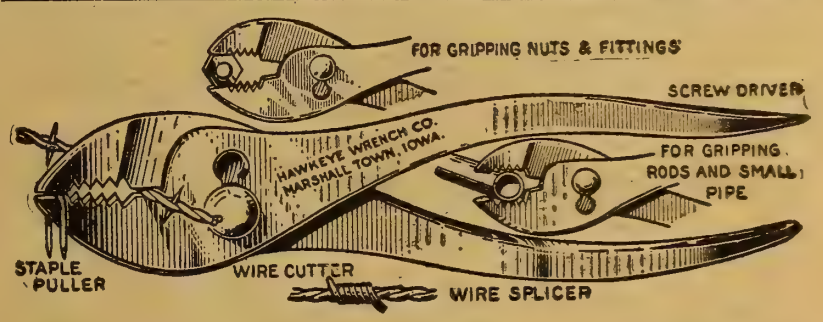

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FROM one month to fifteen months of age. Most of them by our great herd bulls. Many of them out of record cows. A choice lot of well-bred calves and good individuals. Send for price list. Also a few cows and heifers. All stock registered. No grades
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HOLSTEIN COWS

WE have always on hand 150 to 200 head of high-grade Holstein cows and heifers due to freshen soon. Farm two miles south of Elgin, at Clintonville station, on A. E. & C. third rail electric. Both phones. Write your wants. Address
W. C. KENYON & SONS, ELGIN, ILL.

"RESTHAVEN HERD" OF HOLSTEINS

THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
Geo. Burmeister, Prop., Waukesha, Wis.

SOME CHOICE HOLSTEIN BULL CALVES

WE have some choice Holstein bull calves, also some 15-16 grade bulls that we are pricing worth the money. All sired by a son of Colantha 4th Johanna Lad and out of good cows. Pocahontas Co. Home Farm, W. A. Elliott, Supt., Pocahontas, Ia.

BRED FOR PRODUCTION HOLSTEINS Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

Pure-bred Registered
HOLSTEIN CATTLE

The Wisconsin Farmer notes that fewer and fewer of the Wisconsin farmers are content to milk and care for cows that are able to produce only about 150 pounds of butter. During two weeks last spring 145 Wisconsin dairymen purchased registered purebred Holstein sires in order to improve their herds.

Everywhere the more progressive dairymen are alive to the necessity of using **bred-for-production** sires in order to bring up the butter-fat yield of their cows to a profitable figure.

Send for FREE Illustrated Descriptive Booklets
Holstein-Friesian Association
F. L. Houghton, Sec'y, Box 113, Brattleboro, Vt.

HOLSTEINS

OUR HERD BULL, "Sir Gerben Pauline," the best butter-bred bull in Iowa. Dam's record, 33.78 lbs. butter 7 days, average test 5.24% fat. We have 15 bull calves, mostly sons of his, from one to twelve months of age. Dams are heavy and persistent milkers, many with large A. R. records
ELLIOTT BROS. - WOODWARD, IOWA.

A HOLSTEIN HERD AT BARGAIN PRICE

I WILL sell my entire herd of Holstein-Friesians nine females of breeding ages, five bulls and two young calves. They are strictly good, from the best lines of breeding, and all recorded or eligible to record. Will sell singly or in lots to suit purchaser. A low price for quick sale. Come and see them.
C. W. Barclay, Madrid, Boone Co., Iowa.

A. S. ALEXANDER, V. S.,
MADISON, WISCONSIN
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail $1.

OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

COW EFFICIENCY.

The cow is the factor that really determines loss and gain. A good cow properly handled will give a profit anywhere. Just as the cow is an efficient producer of milk and butter fat is there a possibility of the dairy being profitable. If the cow is lacking in efficiency no amount spent for equipment or feed can make up the deficiency. The heavy producers are the only kind that make dairying prosperous.

Reports from all parts of the country prove that about one-third of all the cows are making the profit. Another one-third of the total number are paying for its feed and the remaining one-third are actually losing money. It requires no stretch of the imagination for one to realize that if all dairy cows were of the class of the upper one-third that profits would be infinitely greater. We may well suggest that it is not too high an ideal to seek to keep the cows that are paying and whose progeny would likewise be profitable.

Good sturdy Danes in their little European country have set us a good example in this respect. Not ten years after they began keeping records and testing milk from their cows, the average production of all cows in their country was actually doubled. Might we not expect to accomplish as much when systematic ways and testing is followed out on all our farms? May we not appeal to the warm Yankee blood that flows in the veins of every reader? With that may we not suggest that being Yankees and leading the world in other respects, that in this work we would soon outstrip anything that Danes or any other foreigners have done in their country?

In working for cow efficiency there are four standard features—To remove the profitless cows, to grade up the herd, use home-grown feeds that lower the cost of production and in some cases adapt the stables to up-to-date requirements. Every year improvement in those lines is to be seen. Some broad dairymen are rapidly forcing themselves to the front.

Hundreds of good men realize the importance of weeding out the inferior cows, grading up the herd, proper feeding and stables, and are ready to recognize their possibilities. If we give men such systematic and business-like methods for their use we can predict for them increased profits.

FACTORS INFLUENCING THE QUALITY OF BUTTER.

To the Editor of The Homestead:

The factors influencing the quality of butter in the various states, or even in different localities of the same state, are very much the same, said C. E. Lee, of the college of agriculture of the University of Wisconsin, recently in Buffalo before the New York State Dairymen's Association. The various grades of butter ranging in score fully ten points, is not due to the cow's shortcomings, but is directly attributed to the various methods of handling that the butter fat receives from the time it is produced until it is placed on the consumer's table.

Mr. Lee divides the contributing factors into the following divisions:

1. The farmer or the milk producer who is being constantly urged to follow better methods in handling the product is coming to realize that his primary interest is in producing milk economically. He is understanding that certain food products bear a relation to the flavor of butter. Cabbage, beets and onions, for example, have a bad influence on the flavor of butter. Ventilation, sanitation and care of utensils are important factors in turning out a high grade of butter.

2. The factory owner or manager can do his part well if the creamery is well equipped. The directors cannot place the standard too high. Very often creamery companies, co-operative as well, do not consider that there is only a certain amount of butter fat produced and that amount is not changed by the standard that may be placed on quality. It is to be regretted that a farmer can always find a market for cream no matter what the quality may be.

3. The average butter maker, who is well trained, is doing his part to improve conditions, but often meets with opposition by the officials of the company who desire to turn out a commercial rather than a good grade of butter. By means of the information gained through the scoring exhibition conducted at the Wisconsin College of Agriculture, a large number of men have been able to make butter of higher and more uniform quality. The gain has not been entirely due to greater efficiency in factory operation, but a combination of this and the education of the milk and cream producers by illustrations of exhibition work.

4. The commission trade will always buy fancy butter. It is always a credit to a factory to be able to say that a leading butter house has for years handled their entire output. If one commission firm finds that the butter is not up to standard, rather than to turn down the advice of the man who is in a position to know, the creamery should follow the suggestions offered for improvement. It must be admitted, however, that all commission firms do not demand the same grade of butter in order to satisfy their trade. This condition is a drawback to advancement. Several factores in Wisconsin are making fine butter and others a very low grade, but the returns do not always indicate a difference in quality.

5. Every consumer should at least be able to distinguish between the flavor found in a fancy article and that of the lower grades, otherwise there is not the incentive for continuing to supply the butter of high quality. The creamery industry in a measure is at fault for not educating the public as to the rich, clean, creamy flavor found in the best butter made. A student once placed a 97 score on a tub deserving of only 88 and a high score on the low grade sample. When questioned as to why he made such a mistake he replied: "The tub on which I placed the high score contained the kind of flavor found in butter I have been used to eating."

At times it seems as if the average consumer does not know good butter. It is therefore apparent that our good product must be advertised by some other method than the printer's ink. If the public demanded nothing but the fancy article, the lower grades would not be manufactured to any great extent.

Iowa is the greatest pop corn state in the Union. In fact, by far the largest per cent of the pop corn produced in the United States is grown in this state. In 1912, Iowa had 19,265 acres in pop corn, and the total yield was 647,587 bushels. Two Iowa counties produce most of the pop corn of Iowa—Sac county, which grew 328,904 bushels in 1912, from 8,408 acres, and Ida county, which grew 182,957 bushels last year, from 5,412 acres. One Ida county man has just sold his 1913 crop for $51 per acre. Odebolt, Arthur, Ida Grove, Battle Creek, Schaller and Wall Lake are recognized as pop corn centers in Iowa.

METAL SILO ROOFS

DOORS CHUTES and DISTRIBUTER PIPES for any kind of silo. You need a good roof. We make them of galvanized steel in all sizes. Our patent steel doors and frames are absolutely air-tight, insuring perfect ensilage. Write at once for catalogue. Silo Department.
COLUMBIAN STEEL TANK CO., 1602 W. 12th Street, KANSAS CITY, MO.

AYRSHIRE CATTLE.

EDELWEIS AYRSHIRES

Are bred for business, milk and butter fat production. Ask about the young bulls we now have for sale.
FRED TSCHUDY & SON
Monroe Wisconsin.

GUERNSEY CATTLE.

GRADE GUERNSEYS and HOLSTEINS

FOUR hundred to select from. Car lots a specialty. All ages. Registered sires.
H. L. DUNNING - HEBRON, ILL.

JERSEY CATTLE

REGISTERED JERSEY BULL FOR SALE

REGISTERED Jersey bull fourteen months old. He is a large, growthy fellow, rung and ready for light service. Sire Anna Rosaire's Lad 78605, whose dam gave 815 pounds of butter in one year. His dam is a large and great dairy cow. First check of $60.00 buys him crated F. O. B. cars. Hedge Row Farm, L. H. Rinker, Proprietor, Noble, Iowa.

Redhead's Jersey Bulls

I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

Thompson Farms

HAS a pure bred Jersey bull of serviceable age with a buttered pedigree. Priced to move quick. Write me at once, mentioning The Homestead.
WILL THOMPSON, R. 2, JESUP, IOWA

TWO REGISTERED JERSEY COWS; also a bull. Choice stock. Priced low. Address Norfolk Breeders Co-operative Assn., Norfolk, Neb

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

Jerseys For Profit
AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., N.Y.

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

BUNNY, THE BARKER.

A subscriber writes:

I have a new apple orchard of seventy-one trees, they have a good start, but how can I keep the rabbits from eating them up as they did one I planted in Sherborn county, Minn., three years ago? Is there any way to poison the rascals? One neighbor says, "trap 'em and eat 'em," but I don't like such cat-like meat. What's the easiest way to save my trees?

This is a sample of the inquiries which are due at this season. The question of rabbit protection for orchards is of perennial interest, for numerous orchards are planted each year and legions of barkers are born each year.

The dangerous contact of rabbit, and apple tree is apt to be in the first few years of the tree's life, for the stretching capacity of bunny's jaw is limited and when he can no longer reach about the trunk he is unable to injure it.

It is a pity that our friend does not like rabbit meat, for with traps and gun, he might supply his table and thus cut into the "high cost of living." When steak is 25 cents per cut it is a shrewd business to check the consumption at every possible corner. We advise that you try to like rabbit. Have the Mrs. roast one, just as she would roast a chicken with an oyster dressing. Then just before putting in the oven tie on the outside three good slices of bacon or pickled pork. Cook it in this way and then if you don't like it send it to us, we'll eat it.

Yes, there are a thousand ways in which you may protect your trees and carry them through the winter with absolutely no injury.

Some successful rabbit fighters use poison; some apply a protective to the tree; some destroy the enemy by trapping and others when the cotton tails are as thick as cotton bales in Mississippi combine all the plans suggested. And let us suggest that when the enemy is present in mighty force it is hardly safe to rely upon any one line of defence.

There are a dozen kinds of tree protectors sold; buy them if you have plenty of money. If not make your own. A heavy newspaper wrapping tied at top and bottom fitting close at the surface, is just as good as anything. But you should remove it next spring when the danger season is over. Small hay or straw ropes wound thickly about the tree answers the purpose. And we might go on to name fifty devices in the line of guards. There are various kinds of smears so offensive to the delicate nostrils of Br'er Rabbit that he will not touch the tree which has been doped. Asafetida is the ingredient relied upon to disgust him and it is to his credit that it is effective. But do not combine this perfume with lard or any oil; those things are bad for the tree; use it in whitewash. One application will do as long as no heavy rain storm comes. And as rains are not frequent in your section during winter one smear will be likely to do the job for you.

You may easily poison the hungry jumper, by strychnine fed on sweet apples. Cut the apple into little cubes of a half inch, sprinkle the poison in powder form all over it. Impale each piece upon a sharp pointed stick a foot long and set them up in the snow or earth along the runways. If you persevere in this effort at death you will destroy all who come to your premises.

Other ways of using poison will readily occur to you and any plan which induces bunny to take his dose will succeed.

When you come to trapping the devices are innumerable. The figure four is reliable, baited with an ear of corn upon the trigger, it usually catches the victim. Prepare your trap and throw down a few apple branches, fresh cut, to induce your guests to gather there.

To intelligently feed fruit trees, it should be ascertained what the soil is capable of doing for them. If assistance is required, it must be given. A soil may be deficient in potash, or in phosporic acid, or in nitrogen. If the trees are making quick growth, and the foliage has a deep green color, and the wood matures, it is evidence that nothing further need be done. But if there is a sluggish growth and the foliage turns yellowish, the trees are not receiving sufficient food. In case the soil is not mellow and friable, it should be made so. A lumpy, coarse soil can be improved by growing some cover crop, as cowpeas, or rye, or by the use of barnyard manures, which should be plowed under in spring.

In a Coming Issue

of this publication

You Will Find

another announcement from the House of Landreth. You want to read it. There's matter in it of vital moment to every market and family gardener in the country. Don't let it escape your notice.

D. LANDRETH SEED CO.
BRISTOL, PA.

CLOVER CHEAP Now is the Time to Buy. Prices lowest in years. Buy before advance and save money. Get our special low prices and free samples of our Iowa Grown New Crop Recleaned Tested Clover and Timothy Seed. Also Alfalfa, Alsike, Sweet Clover. All kinds grass seed. 76-page catalog free, quoting all field seeds. Save money by writing at once. A. A. BERRY SEED CO., Box 103 CLARINDA, IOWA

ALFALFA SEED—best quality have ever handled; absolutely free from obnoxious seeds. $7 a bu. if taken at once. **Vermillion Valley Seed Co.** Address inquiry to W. H. Johnston, Frankfort, Kan.

WE buy and sell Clover, Timothy, Alfalfa, Seed Corn, Seed Oats, Millet Cane, etc. Send samples and lowest prices. Aye Brothers, Blair, Nebraska. Seed Corn Center of the World.

SWEET Clover Seed, true white blooming variety (Melilotus Alba). Write for free sample new seed and latest prices. Henry Field, Shenandoah, Iowa

JUST A MOMENT, PLEASE. Your name and address on a postal today will bring you the information on our high grade Vac-Cleaners, at small cost delivered to your door. **UTILITY SALES COMPANY, Distributors of High Grade Specialties, Riverside, Iowa.**

OUR SHEEP DEPARTMENT

THE sheep industry has been a neglected one in the corn belt, but it is now coming unto its own. The general introduction of the woven wire fence has made it easier for men to keep sheep and we propose from this time on to make this one of the strongest departments of the paper. We have recently secured the consent of a few practical sheep breeders to contribute articles on seasonable topics and to answer all inquiries relating to the industry. Every man who is at all interested in sheep is invited to ask questions or to contribute matter pertaining to any phase of the industry.

WINTER IN THE SHEEPFOLD.

To the Editor of The Homestead:

Sheep should go into winter quarters before the frozen condition of the soil renders succulent grazing less palatable and nourishing. I like to allow the breeding ewes to run on the pasture and stubble lands as long as the weather is dry and favorable, for I think that the small amount of grass and waste feeds obtained helps to modify the sudden change from pasture and forage crops to dry feed. By feeding generous rations of dry roughage and grain foods the grass and forage that has been more or less affected by freezing will have no injurious effects upon the digestive systems of the animals. If the sheep are allowed to run out until cold weather comes and are then put on dry feed, without any previous preparation, there is more or less danger of impaction, brought about by the arrest of the natural functions of the digestive secretions.

Sheep are tender and easily discouraged, and for that reason it is clearly to our interest to avoid all influences which will tend toward digestive derangement and see that they are carefully guarded from storms and bad weather. When the weather is pleasant they seem to derive great benefit from a run in the fields and pick up more or less food that is beneficial as well as to secure stamina from the exercise and stimulating air. The winter rations, however, should be fed just the same as though they were kept in the barns and yards.

Breeding ewes cannot thrive under too close confinement. We cannot obtain a maximum number of healthy, well-developed lambs unless the ewes are maintained in a good, healthy flesh condition during the time they are pregnant. As a rule the ewes that have suckled robust lambs during the previous summer are somewhat reduced in flesh condition and vitality; consequently they must have the best of care and generous rations of the right kinds of food to develop strong and vigorous lambs. Many times ewes that are in poor flesh condition will bring healthy and robust lambs and still be unable to supply them with the necessary nourishment to keep them in a thrifty condition. It surely pays every flock owner to devote special study and attention to maintaining his ewes in good flesh, not only because of its influence on the health of the ewes themselves, but upon the growth and development of the unborn lambs.

By handling the flock quietly and carefully during the time they are kept inside many of the troubles experienced during the lambing period may be avoided. One should try to gain the confidence of the ewes as soon as possible after they are brought into the winter quarters, so as to avoid crowding through openings or jumping over obstacles in the barns and yards. Some of the most successful flock owners are able to go among their sheep and catch individuals they desire to show without the least difficulty.

One cannot give too much attention to arranging the yards and barns so that the ewes will not be compelled to crowd through any narrow openings or alleyways. Ewes that are heavy with lamb are frequently injured by overcrowding or being compelled to go out and in the barn through narrow openings. Another complaint caused by overcrowding of the ewe flock is colds and catarrh. When the weather is favorable for the flock to run in the yards, overcrowding frequently results. As the temperature in the barn rises the sheep begin sweating, and when they are turned out the sudden change in temperature causes colds which finally result in catarrh. As a rule I like to keep my breeding ewes in small bunches of from twenty to forty members. With large, open-wool sheep it is seldom profitable to keep too many confined in one flock.

Sheep are not subject to many winter ailments that cannot be prevented if proper precaution is taken in arranging the barns and yards and in feeding suitable foods in the right proportions. If we neglect these factors we are simply inviting and fostering the very ailments that will destroy the most promising flock. Overcrowding, overfeeding and irregular feeding, want of plenty of salt, water and pure air and undue exposure to dampness and storms are prolific sources of trouble during the winter months. One of the best treatments for sheep that are suffering from common winter ailments is a purgative. Few flock owners appreciate the value of Epsom salts or pure raw linseed oil in reducing fever and inflammation. If it is advisable to give sheep a stimulating medicine of any kind, a purgative is the most beneficial.

One of the most insidious winter ailments is colds. A cold at the beginning does not produce any serious ailment, but as it gets a gradual foothold it develops into more serious ailments that use up the body tissues and weaken the whole system of the affected animal. Catarrh, that follows a severe cold, consists of inflammation of the mucous membrane of the throat, nostrils, windpipe and sinuses of the head. In case the disease gets thoroughly established, good nursing, comfortable housing and nutritious food will help to give the animal the necessary vitality to regain its normal condition. This is the only successful method of treating colds and catarrh,

Few flock owners realize the tremendous losses incurred by parasites during the winter. As a rule these external parasites are unusually active during the winter; the dense fleece of the sheep is an ideal place for them to live and reproduce in great numbers. As the parasites multiply the sheep become restless and begin to rub against the corners of the feed racks and partitions in the barns. There is but one method of treatment, and that is to eradicate the evil. If any of the animals show indications of being affected with the trouble in the fall they should be dipped before they are put into winter quarters. If the barn and feed racks become infested much trouble will be encountered in cleaning out the pests. There is no danger in dipping if a warm day is chosen and the sheep as soon as dipped, are put into a barn and kept away from drafts until they are dry.

Sheep must have plenty of nourishing food, especially the breeding ewes that are supporting a growing fetus. A roughage ration is not sufficient. Oats, barley and corn, mixed to meet the varying needs of the flock, make an efficient grain ration. For a roughage ration clover, alfalfa and mixed hay supplemented with roots or corn silage will afford both variety and succulence, which are essential in stimulating appetite and inducing consumption.

L. J. Meredith.

SHEEP.

FORTY GOOD SHROPSHIRE RAMS

ONE, two and three year old Shropshire rams. All sired by an imported ram and out of ewes sired by imported rams. The ewes also directly descended from imported ewes. Address DAVENPORT & MACK - - - - - - BELMOND, IOWA

SHROPSHIRES of the right breeding. 60 imported and home-bred rams. 40 ram lambs and ewes to match, of the Rector family. C. D. NICHOLS LIVE STOCK CO., Cresco, Ia.

REGISTERED Shropshire lambs and ewes for the best breeding and quality. Willard Miller, R-3 Anita, Iowa.

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WE ORIGINATED the plan of treating horses Under Signed Contract to Return Money if Remedy fails. You risk nothing by writing; it will cost you nothing for advice and there will be no string to it.

OUR LATEST Save-The-Horse **BOOK** is our 18 Years' **Discoveries**—Treating Every Kind Ringbone—Thoropin—**SPAVIN**—and **ALL**—Shoulder, Knee, Ankle, Hoof and Tendon Disease—Tells How to Test for Spavin; how to locate and treat 58 forms of **LAMENESS—Illustrated.**

OUR CHARGES for Treatment ARE MODERATE. But write and we will send our—BOOK—Sample Contract and Advice—**ALL FREE** to (Horse Owners and Managers—Only).

TROY CHEMICAL CO 3 Commerce Ave., Binghamton, N. Y.
Druggists everywhere sell Save-The-Horse WITH CONTRACT, or we send by Parcel Post or Express paid.

SICK HOGS

THE Snoddy Hog Treatment has no equal for hog troubles. Prevents disease and destroys worms. Makes hogs thrifty. Its action is quick and effective. Any one can use it. $5 case treats 40 hogs. Agents wanted. Particulars free. **Dr. D. C. Snoddy Co., Nashville, Tenn.**

HOG TRAP One man can ring, detusk, castrate and immune hogs with ease and safety. Write W. S. Phillips, Cameron, West Va.

THREE BIG PAPERS $1.25.

The Iowa Homestead, Twice-a-Week Republic of St. Louis, the biggest and best semi-weekly in the Southwest, and Farm Progress, a big semi-monthly farm paper, sent a full year for $1.25. Send orders to St. Louis Republic, St. Louis.—Adv.

COAL Direct From The Mines

Keep Dealer's and Jobber's Profits In YOUR Pocket

DO you know that wherever you live *you* can now buy coal straight from the mines at wholesale prices, the prices your *dealer* has to pay?

Do you know that this winter you can save from $50 to $100 on your coal supply—have it delivered promptly—the cleanest, best heat-producing coal you ever used?

It is literally throwing your money away and adding to the high cost of living *with a vengeance* to continue to pay local prices for coal.

Our great mines near Vincennes, Indiana, produce enormous quantities of the finest coal in the country—the coal that is famous for its remarkable heat unit efficiency. We ship everywhere direct from mines in carload lots this splendid guaranteed fuel.

Tecumseh Coal

Save $50 to $100

on your winter's coal supply. We know that seems too good to be true, but it is an absolute fact that hundreds of people far and near are already buying Tecumseh Coal from us at wholesale and making this marvelous saving.

Not only is Tecumseh the best heat giving coal—but it is *all coal*—cleaned at the mines by the most perfect system ever installed.

No matter how big your coal bills have been in the past—no matter how much you have fattened the jobber's and dealer's profits—the time to turn your back on the old costly round-about way of buying is now. Begin with *this* winter to make this real saving.

It is plain common sense for you to save money by dealing *direct with the mines*. You owe it to yourself to find out the facts and prices—to learn more about Tecumseh Coal. All we ask is the opportunity to quote you prices—to prove in actual figures the splendid saving you can make.

This should interest you whether or not you intend to buy a full car of coal.

Club with Your Neighbors

If you cannot use a whole car—25 to 40 tons—you can easily arrange with your neighbors to divide up the shipment and still make this handsome saving on your winter's coal.

This money-saving plan is too important to be set aside. The amount of waste money you have been paying your dealer belongs in your own pocket. Keep it there. Right now take the first step. It obligates you to nothing. Just fill out and mail us the coupon in this advertisement. The prices we quote will positively surprise you. But do it now before the matter slips your mind. Address

Martin-Howe Coal Co.
1936 McCormick Building
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Money-Saving Coupon

Martin-Howe Coal Co.,
1936 McCormick Bldg., Chicago, Ill.

Gentlemen:—Am interested in your proposition of better coal for less money. Please quote prices, freight included, delivered at my nearest railway station, on the following coals:

No. of Cars.....Kind of Coal.....
No. of Cars.....Kind of Coal.....
Name.....
Nearest R. R. Station.....Name of Railroad.....
Postoffice.....County.....State.....

NEWS OF THE SALE RING

Robisons' Percheron Sale.

The offering of Percheron horses at Leslie Farm, Pekin, Ill., December 10th, by A. L. Robison & Sons drew a crowd of 1,000 people and the high-class offering presented was taken at prices that, while conservative, yet represented a good margin for the makers of the sale and yet placed the horses in the buyers' hands at figures that cannot fail to make them very profitable investments. While the general average of $486 made on the thirty-eight head sold does not look large, it must be considered that included in the list were fourteen head of weanlings and yearlings that had not arrived at the age to sell to the best advantage and kept the average down. It was a quality offering throughout. The father of the senior member of the Robison firm located in Illinois in 1836, and soon afterward engaged in the breeding of Percheron horses, an industry that has been carried on at Leslie Farm continuously down to the present day. The majority of the sale offering was bred on Leslie Farm and represented the richest breeding known to the breed. The blood of Powerful, Seducteur, Rabelais, Hisse Hunt and Moulinet, the great sires that have been used at Leslie Farm, predominated and no Percheron sale ever presented a better bred lot of horses. The imported mares in the offering received ready appreciation. There are few establishments that have behind them so long or so clean a record as Leslie Farm. Conducted on progressive lines, with the strictest integrity, it is today one of the great constructive breeding farms of the country and the buying public knows that it is getting honest values from an honest firm when it deals there. The horses went to buyers from Ontaria, New York, Pennsylvania, Ohio, Indiana and Illinois, with bidders present from several other states. The top of the sale was $1,250, paid by the Southern Illinois State Normal School, Carbondale, Ill., for the imported mare, Koudrelle, reserve champion at the 1913 Illinois State Fair, the same buyer paying $1,080 for the imported mare, Icarienne, the contending bidders being P. W. Wickham, Alexandria, S. D., and Len Small, Kankakee, Ill. At $805 Chas. E. Flora, Camden, Ill., secured the beautiful two-year-old Robison bred mare sired by Rabelais, and Fred C. James, Jeffersonville, Ohio, paid $800 for Veda, another outstanding daughter of Rabelais, both mares being bred to Moulinet, the great sire at the head of Leslie Farm stud. Len Small, Kankakee, Ill., secured excellent value in the imported mare, Kriblure, at $705, and Isaac Argenbright, Blandinsville, Ill., got a beautiful pair of young imported mares in Krimee and Kausse at $1,250. There was a good local demand, as is always the rule at Leslie Farm sales, evidencing the high esteem in which the Messrs. Robison are held by their neighbors. The sale was conducted in the thorough and high-class manner so characteristic of Leslie Farm events, and the management established itself more firmly than ever in the esteem of the public by the way in which the sale was handled. Col. Carey M. Jones did a most effective day's work, and was ably assisted in the ring by Colonels Brown and Seeley. The following is the detailed report:

FEMALES.

Imp. Koudrelle, foaled, 1910; Southern Illinois State Normal School, Carbondale, Ill.	$1,250
Imp. Icarienne, foaled 1908; Southern Illinois State Normal School	1,080
Alicia, foaled 1911; Chas. E. Flora, Camden, Ill.	805
Veda, foaled 1909; Fred C. Janes, Jeffersonville, Ohio	800
Imp. Kriblure, foaled 1910; Len Small, Kankakee, Ill.	705
Imp. Krimmee, foaled 1910; Issac Argenbright, Blandinsville, Ill.	625
Imp. Kausse, foaled 1910; Isaac Argenbright	625
Imp. Modiste, foaled 1912; Len Small	400
Imp. Mistoaple, foaled 1912; Folly Farms, Abington, Pa.	305
Imp. Indecise, foaled 1908; W. H. Welch, Lexington, Ill.	390
Imp. Graciense, foaled 1909; Fred C. Janes	710
Imp. Marmito, foaled 1912; O. B. Lacy, Atlanta, Ind.	435
Imp. Mousseline, foaled 1912; O. B. Lacy	435
Imp. Jouvencelle, foaled 1909; Folly Farms	505
Imp. Kadole, foaled 1910; Folly Farms	575
Elenore, foaled 1908; John Koch, Tremont, Ill.	595
Joan, foaled 1913; Len Small	595
Emma, foaled 1912; Samuel Gerber, Tremont, Ill.	380
Wanda, foaled 1912; Folly Farms	405
Negetta, foaled 1912; C. P. Miller, Byron, N. Y.	505
Marietta, foaled 1913; E. J. Weigel, Kingsville, Ont.	275
Jeanne, foaled 1913; Len Small	340
Alamfol, foaled 1910; Isaac Argenbright	430
Superba, foaled 1912; Morris Roth, Groveland, Ill.	365
Althea, foaled 1911; Samuel Gerber	425
Kathleen, foaled 1913; Wm. Rapp, Tremont, Ill.	255
Marseille, foaled 1913; Wm. Rapp	255
Imp. Juste, foaled 1909; Brrokwood Farms, Barryville, N. Y.	600
Imp. Lisbonne, foaled 1911; J. D. Phillips, Green Valley, Ill.	440
Imp. Kapefigure, foaled 1910; Byron Gregory, Bloomington, Ill	610
Myra, foaled 1910; Isaac Argenbright	430
Imp. Hirondelle, foaled 1907; Frank Harris, Tremont, Ill.	610

STALLIONS.

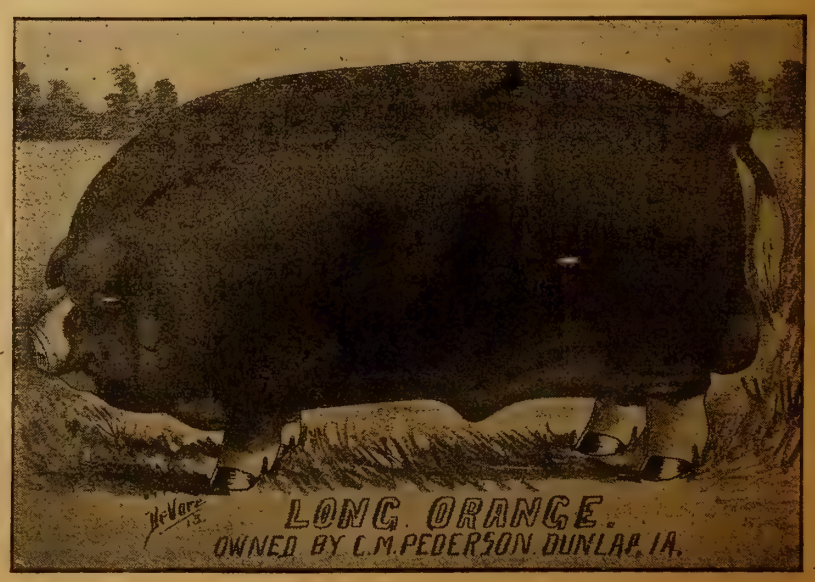
Mourand, foaled 1913; E. J. Weigel	300
Hopeful, foaled 1912; W. H. Welch	380
Moquin, foaled 1913; Jos Schneuer, Groveland, Ill.	185
Roubaix, foaled 1913; E. J. Weigel	200
Rouen, foaled 1913; E. J. Weigel	200
Paul, foaled 1913; E. J. Weigel	225

SUMMARY.

32 females	$16,965;	average....$530
6 stallions	1,490;	average.... 248
38 head	18,455;	average.... 486

Corsa's Percheron Sale.

The annual offering of Percherons at Gregory Farm, White Hall, Ill., December 9th was largely attended, buyers being present from New York, Pennsylvania, Ohio, Illinois, Mississippi, Nebraska, North Dakota and South Dakota. The reputation of Gregory Farm as a great breeding institution is so firmly established that it is only necessary to announce a sale there to attract buyers from all points. The value of a great sire is strongly demonstrated at Gregory Farm. Not only was Carnot a champion of champions, but he is transmitting to his offspring the same outstanding qualifications that carried him to the front and at all the big shows during the last two years since his colts have become large enough to show, they are carrying away the big share of the honors. There was strong demand for his get in the sale, and the nine head sold, eight fillies, suckers to yearlings, and one yearling stallion, made the excellent average of $681. The majority of the mares in the sale were bred to Carnot, a fact that added largely to their value. The top of the sale was $1,050 paid by Frank M. Shaw, Oneida, Ill., for the three-year-old mare, lady Christine by Casino, and bred to Carnot. P. Wickham, Alexandria, S. D., one of the most reliable and discriminating stockmen in the country, paid $950 for Carnorine, a yearling daughter of Carnot, and $825 for Carnona, another yearling filly by the same sire. Two yearling daughters of Carnot, Carniburge and Queen Carnot, went to Thos. Kellebrew, Nebo, Ill., at $605 each, and J. C. White, Brandon, Miss., secured excellent values in four Carnot fillies, Carneito, Cartilly, Cartie and Carlante, suckers to yearlings, at prices ranging from $450 to $825. Mr. White is doing missionary work in his state in the interest of the Percheron and he is



Long Orange the splendid son of Big Orange. The sire of the good boars offered for sale by C. M. Pederson, Dunlap, Iowa. See advertisement on page 39.

certainly getting the right kind of seed. Mr. Williams, manager of George W. Elkins, Jr.'s, Folly Farm, at Abington, Pa., secured seven head of young mares at very conservative figures. The top for stallions, $995, was paid by E. F. Eberly, Hampton, Neb., for the two-year-old imported Lebon, at which figure he is a decidedly good investment. Mr. Eberly also took Carvotte, a yearling son of Carnot, at $860 and Kouson, an imported three year old at $775. Like all sales at Gregory Farm, this one was conducted in the most admirable manner. Mr. Corsa is a gentleman of the highest honor, a fact long since learned by the public and he carries on his business in a manner that makes him both friends and customers. Colonel Woods, Jones, Branson and Seeley were the auctioneers and the following is a detailed report of the sale:

FEMALES.

Cornorine, foaled 1912; P. Wickham, Alexandria, S. D.	$ 950
Carnelto, foaled 1912; J. C. White, Brandon, Miss.	825
Carnona, foaled 1912; P. Wickham	925
Carniburge, foaled 1912; Thos. Kellebrew, Nebo, Ill.	605
Queen Carnot, foaled 1912; Thos. Kellebrew	605
Cartelly, foaled 1912; J. C. White	505
Cartie, foaled 1912; J. C. White	505
Lady Christine, foaled 1910; Frank M. Shaw, Oneida, Ill.	1,050
Imp. Bichette, foaled 1905; Wm. F. Harrison, Oreland, Pa.	640
Rosa, foaled 1907; John Bowen, Ipava, Ill.	735
Imp. Corsette, foaled 1900; J. W. Arnold, Arnold, Ill.	705
Imp. Hutiphar, foaled 1907; R. E. Carter, Medora, Ill.	625
Lucile, foaled 1902; George Davenport, Modesto, Ill.	505
Estelle, foaled 1910; R. E. Carter,	495
Carlante, foaled 1913; J. C. White	450
Agatha, foaled 1912; Folly Farms, Abington, Pa.	550
Amo, foaled 1912; T. A. Shepherd, Pawnee, Ill.	500
Arlene, foaled 1912; Folly Farms	430
Eminator, foaled 1910; Brookwood Farms, Barryville, N. Y.	800
Marie, foaled 1910; C. P. Miller, Byron, N. Y.	700
Gertiletto II., foaled 1909; Scandrett Bros., Rockbridge, N. Y.	800
Imp. Kalende, foaled 1910; Brookwood Farms	800
Imp. Kondee, foaled 1910; George Davenport	710
Imp. Latruille, foaled 1911; Folly Farms	500
Imp. Limande, foaled 1911; Folly Farms	500
Imp. Ligature, foaled 1911; Folly Farms	515
Imp. Latitude, foaled 1911; Folly Farms	485
Imp. Kantite, foaled 1910; J. B. Helmuth, Millersburg, Ohio	545
Imp. Laripette, foaled 1911; F. L. Smith, Moweaqua, Ill.	230
Henriette, foaled 1905; Thos. O'Donnell, Winchester, Ill.	495
Loretta II., foaled 1911; Folly Farms	465
Melva, foaled 1910; A. R. Kemps, Oakdale, Ill.	400
Bonito, calved 1910; A. Baker, Temple Hill, Ill.	400

STALLION.

Carvotte, foaled 1912; E. F. Eberly, Hampton, Neb.	860
Imp. Kouson, foaled 1910; E. F. Eberly	775
Imp. Lebon, foaled 1911; E. F. Eberly	995
Combino, foaled 1912; J. W. Arnold	800

SUMMARY.

33 females	$19,850; average	$601
4 stallions	3,430; average	857
37 head	23,380; average	628

Trumans' Sale of Shire Mares.

The sale of imported Shire mares at Trumans' Pioneer Stud Farm, Bushnell, Ill., drew a very large crowd, and those present were afforded an opportunity to place values upon one of the best lots of mares yet presented at the Bushnell establishment. The average of $548 made on the sale does not represent the full value of the offering, as many mares were taken at very conservative prices. The top of the sale was $1,000, paid by J. E. Cross, What Cheer, Iowa, for the three-year-old Normandy Sweet Briar, in foal to the International champion, Lockinge Hengist. The majority of the mares in the sale had been covered by this stallion and added value was given each one from the fact that the day preceding the sale Lockinge Hengist had been sold by the Messrs. Truman to George Stoll, a progressive young farmer and horse breeder at Chestnut, Ill., for the record price of $11,500. H. B. Smith, Bardolph, Ill., paid $975 for the four-year-old Gem, also in foal to Lockinge Hengist. George Schaffenacker, Chestnut, Ill., got exceptional value in Trumans' Coldham Princess at $825, this beautiful young mare being a daughter of the grand champion Shire mare at this year's International. One of the best values in the sale was the three-year-old Laithwaite Rose, in foal to Lockinge Hengist, that went to O. H. Stoops, Terhune, Ind., at $700. Like all affairs at the Pioneer Stud Farm the sale was conducted in the most satisfactory and honorable manner, and the mares sold were of such outstanding merit that they cannot fail to prove desirable investments to their owners. Col. Carey M. Jones did the selling in his usual effective manner, ably assisted in the ring by Col. B. H. Keck, the sale averaged $548, and the following is the detailed list:

MARES AND FILLIES.

Normandy Sweet Briar, foaled 1910; J. E. Cross, What Cheer, Iowa	$1,000
Fleet Rose, foaled 1909; Fred Bonner, Canton, Ill.	450
Vita, foaled 1910; Elmer Carlton, Owaneco, Ill.	485
Springfield Cosy, foaled 1911; Jones McGrew, Walnut Grove, Ill.	400
Maryshall Merry, foaled 1911; W. D. Fraley, Taylorville, Ill.	480
Clawson Blossom, foaled 1908; Chas. Lindquist, Essex, Iowa	700
Stickford Lass, foaled 1911; Harry Keithley, Macomb, Ill.	505
Trumans' Coldham Princess, foaled 1911; George Schaffenacker, Chestnut, Ill.	825
Lady Leo, foaled 1908; Jos. King, Walnut Grove, Ill.	510
Elsie May, foaled 1912; J. C. Moore, Rushville, Ill.	360
Trumans' Bonny, foaled 1912; J. C. Moore	300
Gem, foaled 1909; H. B. Smith, Bardolph, Ill.	975
Tuontree Pink IV, foaled 1908; Fred Bonner	325
Laithwaite Rose, foaled 1910; O. H. Stoops, Terhune, Ind.	700
Moulton Double Daisy, foaled 1912; L. M. Tate, Kansas, Ill.	425
March Gertrude, foaled 1908; Chas. Lindquist	400

The Oldsen Short-horn Sale.

An unusually large crowd from all parts of Iowa attended the C. A. Oldsen Short-horn sale at Wall Lake, Iowa, on December 10th and he made a splendid sale, the entire offering averaging $180.97. The top of the sale was Ceremonious Pigeon, a daughter of Ceremonious Archer, and she went to J. T. Judge, Carroll, Iowa, at $280. The cattle were in excellent condition, and were appreciated by the large crowd that was present. In no sale this year has there been more evidence of the demand on the part of the public for cattle than was exhibited in this sale. In fact there was not near enough bulls to go around, and he could have sold many more females had they been offered. Col. Fred Reppert cried the sale, assisted by Colonel Teaquist in the ring. Below we list the entire offering:

FEMALES.

Ceremonious Pigeon, calved March, 1907; J. T. Judge, Carroll, Iowa	$280.00
Snowball, calved December, 1911; Cahill Bros., Rockford, Iowa.	155.00
Minta Gold, calved April 1909; G. W. Cline, Pilot Mound, Iowa.	175.00
Waveland Peach, calved July, 1908; E. B. Thomas, Audubon, Iowa	255.00
Manners, calved July, 1903; E. B. Thomas	225.00
Peach, calved August, 1902; L. T. Quirk, Wall Lake, Iowa.	130.00
Gipsy's Peach, calved November, 1908; R. J. Prentis, Lake View, Iowa	210.00
Georgiana, calved April, 1909; Drey Bros., Early, Iowa.	200.00
Lilac Girl, calved October, 1909; W. C. Abney, Yetter, Iowa.	230.00
Red Peach, calved November, 1909; John Zien, Wall Lake, Ia.	200.00
Mabel, calved May, 1910; Drey Bros.	210.00
Peach Blush, calved April, 1912; F. R. Shurtliff, Charter Oak, Ia.	107.50
Fancy, calved January, 1912; A. L. Mason, Early, Iowa	170.00
Waveland's Blossom, calved July, 1903; Geo. Rupert, Ida Grove, Iowa	155.00
Roan Beauty, calved March, 1911; Ed Huffman, Ida Grove, Iowa.	200.00
Pink Lady, calved May, 1912; Frank Turner, Early, Iowa.	135.00
Blossom, calved August, 1912; Frank Turner	112.50
Roan Maiden, calved February, 1912; Arthur Smith, Wall Lake,	142.50
Peach of Waveland, calved September, 1903; Hans Christensen, Wall Lake, Iowa	170.00
Waveland Blossom 3d, calved July, 1909; Drey Bros.	230.00
Georgiana Kin's Kin, calved December, 1908; E. B. Thomas.	200.00
Lottie Lilac, calved May, 1902; Earl Maharg, Audubon, Iowa.	145.00
Lady Greenbush, calved October, 1904; C. A. Ritter, Sac City, Ia.	195.00
Lady Adair, calved March, 1906; C. A. Ritter	195.00
Bouquet, calved June, 1911; Gus Hammerstrom, Kiron, Iowa	180.00
Fern, calved May, 1912; Arthur Smith	142.50

BULLS.

Red 388535, calved November, 1912; W. F. Lindsey, Aurelia, Ia.	175.00
Perfection 388534, calved October, 1912; Rasmess Hansen, Renwick, Iowa	180.00
Cyclone 388532, calved October, 1912; Gearke Bros., Aurelia, Ia.	195.00
Chief 383769, calved July, 1912; Andrew Erickson, Wall Lake, Iowa	170.00
Wavelands Pride 383771, calved August, 1912; John Barrett, Paton, Iowa	255.00
Victoria's Duke 383770, calved August, 1912; F. R. Shurtliff.	160.00
Royal Lad 388536, calved December, 1912; Will Pepper, Wall Lake, Iowa	165.00
Dandy 388533, calved October, 1912; Amos Peterson, Denison, Iowa	165.00
Bill 388531, calved October, 1912; Will Albright, Wall Lake, Ia.	150.00
Remsen 388679, calved October, 1912; John Wagner, Odebolt, Ia.	150.00

SUMMARY.

10 bulls	$1,760; average	$176.00
26 females	4,755; average	182.82
36 head	6,515; average	180.97

The Richardson Short-horn Sale.

The attendance at the J. A. Richardson sale at Wall Lake, Iowa, on December 9th was the largest that he has ever had since he has been breeding cattle, and the outcome was entirely satisfactory. Seventeen bulls averaged $153.83 and twenty-three females averaged $144.11, the average on the forty head being $148.24. The attendance of breeders from far away was very marked and they bid as though they wanted cattle. The top of the sale was the great young bull, Red Knight Jr., an outstanding good young Matchless bull and he went to John Rasmess at $305. Col. Fred Reppert cried the sale and did good work and was assisted in the ring by Colonels Lee, Teaquist and McLaughlin. Below we list those selling for $100 and over:

FEMALES.

Marchoness 46th, calved May, 1909; Cahill Bros., Rockford, Ia.	$155.00
Lady Marchoness, calved January, 1912; Christian Peterson, Dayton, Iowa	200.00
Eliza 18th, calved October, 1909; G. W. Cline, Pilot Mound, Ia.	150.00
Dora, calved July, 1909; Clayton Hauseman, Armstrong, Iowa.	192.50
Eliza, calved December, 1912; S. Green, Woodbine, Iowa	115.00
Queen Butterfly, calved June, 1907; Ed Huffman, Ida Grove, Iowa	207.50
Butterfly Star, calved June, 1902; S. Green	105.00
33d Scottish Lady, calved April, 1905; W. H. Meyers, Vail, Iowa	165.00
Cook's Butterfly, calved May, 1910; Cahill Bros.	200.00
Beauty 2d, calved February, 1912; G. W. Cline, Pilot Mound, Iowa	125.00
Daisy, calved February, 1912; Clayton Hauseman	135.00
Lady Lily, calved February, 1907; Drey Bros., Early, Iowa	120.00
Carrie, calved November 1910; Geo. Rupert, Ida Grove, Ia.	135.00
Ida's Pride, calved May, 1910; W. H. Meyers	137.50
Daisy, calved December, 1908; David Gowan, Cleghorn, Iowa.	120.00
Princess 2d, calved March, 1911; C. J. Fulcher, Early, Iowa.	102.50
Manor Lassie, calved November, 1908; Hugo Westerman, Lake View, Iowa	175.00
Gloster's Lannie 2d, calved June, 1902; R. J. Prentise, Lake View, Iowa	127.50
Carrie's Pride, calved April, 1910; Cahill Bros.	205.00
Rosebud, calved May, 1904; Drey Bros.	135.00
Flossie, calved November, 1909; Drey Bros.	130.00
Lady Rose, calved August, 1910; F. J. Upman, Wall Lake, Iowa	100.00

BULLS.

Red Knight Jr. 390387, calved February, 1912; John Rasmess, Lake City, Iowa	305.00
Roan Boy 390388, calved May, 1912; Thos. Burns, Jr., Breda, Iowa	190.00
Granger, calved February, 1912; C. W. Clark, Somers, Iowa.	150.00
Samuel 390391, calved September, 1912; Edwin Carlson, Kiron, Ia.	160.00
Field Marshal, calved December, 1912; Kallen Bros., Ellsworth, Iowa	165.00
Victoria King, calved May, 1912; J. N. Townsend, Britt, Iowa.	160.00
Golden Earl, calved December, 1912; H. J. Giesler, Shell Rock, Iowa	170.00
Fair Goods, calved February, 1913; Otto Lindquist, Kiron, Ia.	135.00
Champion, calved December, 1912; J. C. O'Connor, Burbank, S. D.	150.00
Money Musk, calved December, 1912; M. A. McWilliams, Wall Lake, Iowa	155.00
Roan Knight, calved December, 1912; Lee Stillman, Gowrie, Ia.	160.00
Dandy, calved January, 1913; P. J. Folvag, Badger, Iowa	105.00
King, calved July, 1912; W. T. Oelrich, Yetter, Iowa	150.00
Crown, calved May, 1912; Louis Huff, Wall Lake, Iowa	140.00
Crown 2d, calved October, 1912; A. P. Gilder, Shell Rock, Ia.	110.00
Prince Albert, calved January, 1913; H. C. Clint, Lake View, Ia.	115.00
Standard, calved January, 1913; Robert Rhode, Lake View, Ia.	100.00

SUMMARY.

23 females	$3,314.50; average	$144.11
17 bulls	2,615.00; average	153.83
40 head	5,929.50; average	148.24

As per previous announcements in this paper, J. A. Sage, Ankeny, Iowa, sold Shire stallions and mares at public sale on December 9th. He disposed of seventeen head at an average of $495 each. The top price of the sale was obtained for a six-year-old stallion, Brown Prince, that went to Wm. Beck, Lehigh, S. D., at $925. Among the purchasers were Roy Alleman, Alleman, Iowa; John Schonhorst, Slater, Iowa; Charles Hildreth, Ankeny, Iowa; F. E. Bush, Dexter, Iowa; R. Peterfish, Ankeny, Iowa; Lloyd Howard, Ankeny, Iowa; Linc Hillis, Ankeny, Iowa; C. R. Sydness, Slater, Iowa; Lee Bros., Slater, Iowa, and Art Hildreth, Slater, Iowa.

A fair gathering of cattle men were on hand at the sale of Short-horns made by Blank Bros. & Kleen, at Franklin, Neb., on December 10th. A lot of really useful cattle were sold and they did not bring a range of prices in keeping with the real value offered. Feed of all kinds is scarce in southern and western Nebraska this season and no doubt this fact tended to bear down on the prices, yet it seems at the range of prices at this sale, one would have been enabled to make investments that will be really difficult to duplicate. The cattle were too thin in flesh to be appreciated and consequently the average of $75 is reported. This, however, includes many calves. Ernest Shoebotham, Fairbury, Neb., was the strongest buyer of the sale, getting six head. Dyer Bros., Franklin, each took several head. A. C. Shallenberger, Alma, Neb., paid the top of the sale. H. D. Duncan did the selling.

A man who gives more than just ordinary attention to poultry on the farm uses steam pipes to warm the buildings in winter. This poultry keeper has made a success and ships sixty to seventy dozen eggs to a nearby city every week. Hardly 1 per cent of the farmers would be successful. However, it shows what is possible, by close attention to details, and the determination to win out.

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NO ADVERTISING IN IT, although our fertilizers follow all its requirements. If you are not already using or selling our goods, it might pay you to look them up. We make a fair business proposition for live agents. Ask our office nearest you to send you the book, addressing your request to

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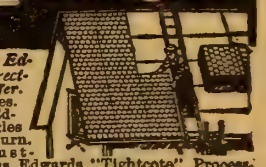

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A Better Barn — A Better Looking Barn

Investigate the KING AERATOR and King Ventilating System. We give you a whole year to test this great *fresh-air money-maker*— price refunded if you're not satisfied.

KING AERATOR

The KING saves more than its cost *every year* by keeping property in good shape— making livestock healthier and farm handsomer. Ask your lumber dealer about the KING. *Write us today* for helpful Free Book.
KING VENTILATING CO.
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DOESCH ICE PLOW

One man and a horse can cut more ice in a day with it than he will use. Guaranteed to beat 20 men with saws!
Cuts *double row;* cakes uniform, any size and thickness. Two days' cutting for others pays for your plow. In 3 sizes—$15.33 and up. Write for catalog and our *surprise* offer.
JOHN DOESCH & SONS
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Beats 20 Men With Saws

ELECTRIC Steel Wheels Save YOUR Back

Save draft — save repairs. Don't rut roads or fields. Send today for free illustrated catalog of wheels and wagons.
Electric Wheel Co., 58 Elm St., Quincy, Ill.

Live Stock and Commercial Field Notes

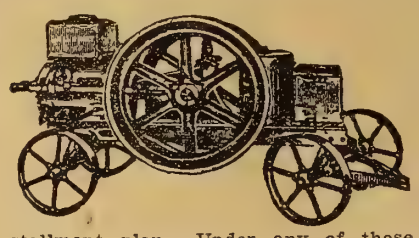
Collected by Representatives of The Homestead

THE dispersion sale of the Spring Lake herd of A. J. C. C. Jersey cattle, takes place Wednesday, January 7, 1914, at Palmyra, Wis. This great herd of nearly fifty pure-bred Jerseys, has been developed through forty years of persistent breeding on this farm. For the past twenty-one years Mr. Wm. Weis has owned the farm and herd, and his energies have been directed toward building up a great producing herd. This he has succeeded in doing and he has accomplished this through the use of the many fine bulls he has used. He has not purchased a female in the twenty-one years which makes the whole of the present herd of his own breeding, and of great blood lines. The offering consists of seven aged cows, seventeen cows two to six years old, nine heifers, eight heifer calves and three bull calves, two herd bulls. A more evenly developed herd would be hard to find for with but one exception the top lines are straight, and carry out exceptionally well at the tail head. The udders on the milking females are typically Golden Fem, being long, and square built, with teats of good size, well placed. As they are all American-bred and are not too closely descended from the imported stock, they are very good size. The years of careful selection and breeding shows on them strongly, for in over twenty years there has not been a "questionable" bull used. Among the bulls used on this farm during the past decade and ones which appear repeatedly throughout the pedigrees are: Commodore Tormentor 27938, Olymphs Koffee 20087, Pogis Koffee 36413, Farmer's Sow 28014, Bill McRiotee 46397, Delias Volunteer 67737, Belle Mays Prince 70265, Major Marion 6922, Duke of Bloomfield 1544, Count's Commander 101193 and Idas Osiris 82850. As will be recognized these are from the great Pogis, Golden Fern and St. Lambert strains and in many cases they were strongly line bred. There are two herd bulls in this offering, both a trifle over two years of age. One of these, Brookfield Financial Count, is a show animal, and would be a worthy entry for state fair honors. He is a son of Brookhiel Financial Count, second prize winner at the Wisconsin State Fair where he was beaten only by the noted bull, Cora's Majesty. On his sire's side he is of Golden Fern and Flying Fox breeding, being a great grandson of Brookhiel Fox the $5,000 bull, and of Financial Countess, which made 111 pounds butter in thirty-five days and 935 pounds in a year. His dam, Golden Fern's Marie, is of Golden Fern and Pillotta breeding, being a daughter of Pedroc Golden Fern and Pilotta's Flossie. The other herd bull which is also a junior two year old is Volunteer's Darby 999088. He is a grandson on dam's side of Commandor Tormentor and his sire is Delia's Volunteer, a grandson of Ida's Rioter of St. Lambert. Such noted bulls as Commander Vexie, Doris Pogis, Lord Victor Pogis and Rioter's Victory, appear in his pedigree. Palmyra, Wis., is located forty miles west of Milwaukee and northwest of Chicago. It is very easy of access, as there are eight trains daily on the C. M. & St. Paul going both four east and four west. The trains going east arrive at 7:45, 8:15, 11:55 a. m., and 5:30 p. m. Going west they arrive at 9:15 a. m. and 2:20, 5:45 and 8 p. m. The farm is located at the edge of the village and is but ten minutes' walk from the station. It is a truly worth while offering, and will pay those interested in pure-bred Jerseys to attend the sale or send mailed bids. See advertisement of C. W. Mack & Son on page 26.

TAYLOR & JONES, Williamsville, Ill., write: "Our new importation of draft stallions will be shipped in a few days. These will crowd us somewhat for room and in order to dispose of some of these we already have, we are willing to make reduced prices on anything we have in the barns. If you are planning to buy, it will pay you well to come and select what you want and get the advantage of this special price. With each horse goes our written breeding guarantee and we can also guarantee him to live for you, thus making you absolutely safe. Our horses are all doing well and we are glad to say our sales are quite good. Write us your needs, if you cannot come, and let us try to fit you out." See page 35.

WISCONSIN Berkshires have demonstrated the fact that they are just as good as those of other states. They are capable of holding their own in show rings, and better than that, they tip the scales at a money-making weight when they go to market. In his advertisement on page 39 M. A. O'Brien, Reedsville, Wis., announces that he has for sale a lot of good, growthy, typical Berkshires and that he will quote very reasonable prices on them. The O'Brien herd has a record of putting barrows into the market at an early age and with a wonderful uniformity of growth and finish. Buyers will do well to look him up before making their selections.

DIRECT-FROM-THE-FACTORY plan of buying gasoline engines may easily effect a saving of from $50 to $300. This applies to the line of engines advertised by Galloway on page 13 of this paper. The accompanying illustration shows one of the popular Galloway pumping engines on trucks. The manner in which the Galloway engine is manufactured and the guarantee under which it is sold, makes it absolutely safe for anyone to buy. Galloway has no salesmen. He sells everything direct to the farmer and on terms which enable any farmer to buy. These terms are liberal and the buyer may have the choice of five different plans. In the first place there is plan No. 1 where the buyer pays cash with order. This is really the cheapest plan where there is cash to carry it through. A second plan provides for a bank deposit; a third gives the buyer the privilege of paying half cash and half note; a fourth in which full settlement by note may be made; and a fifth in which the Galloway customer may buy on the in-



stallment plan. Under any of these plans the price is made just as low as it can be and justify the good engine sent out. In every instance a certificate of guarantee accompanies the purchase, and this is backed up by a guarantee bond of $25,000, which is placed in a bank at Waterloo, and from which may be drawn a forfeit caused by lack of merit in the engines. But the Galloway engine is not the only article that may be bought at money-saving prices. Manure spreaders, cream separators, and in fact every machine or article used on the farm or in the home is supplied by the Galloway Company. Catalogs of each may be obtained by filling out the coupon in the big advertisement and forwarding it to Wm. Galloway Company, 15 Galloway Station, Waterloo, Iowa.

CHOICE Poland China gilts for sale.—Those of our readers who want to buy some good large-type gilts at private treaty should read the advertisement of W. T. Dubois, Greenville, Iowa, on page 39. He is offering twenty-two head for sale, most of which are sired by his two splendid boars, Collosso 2d and D.'s Wonder. The former boar is a two year old and is the sire of most of the young things now on the place. He is a son of Colosso by Hadley Expansion by Dorr's Tecumseh and his dam is Molly Fair 6th by Chief Leader by old Chief Price. As his pedigree will indicate he is a big-type boar, wonderfully smooth, deep in body, good bone and back and a good head for a large-type boar. This boar is a good breeding hog and he puts a good back on everything he sires, together with good feet and legs and nice coats. His yearling boar, D.'s Wonder is a son of Ellerbroek's A Wonder and he is out of a dam by Fesenmeyer's A Wonder, making him a double bred A Wonder boar. Here is a boar that is destined to be one of the largest boars in northern Iowa when grown out. He can easily make this hog weigh 1,000 pounds when matured. He has the bone, the depth and the size that they are all after, and a sow bred to him is all right. Mr. Dubois is offering nine head of Colosso 2d gilts bred to this boar and some D.'s Wonder gilts bred to a son of Colosso 2d. The gilts that he is offering for sale are out of such sows as Mollie Miller, bred by John Miller, and she is a daughter of Miller's Chief Price; U. S. Monarch by Monarch 2d, he by the 1,000-pound boar, Monarch Jr.; Cedar M. by Monarch 2d and Young Lady, a granddaughter of Tecumseh Longfellow. You will, therefore, realize from this line of breeding he has a nice line of big-type breeding. He will not hold a winter sale and he is, therefore, going to offer these gilts at private treaty, write him for prices and description at once and kindly mention The Homestead.

WESTERN Nebraska boasts of many of the finest herds of pure-bred stock within the state and among them the Short-horn herd owned by E. W. Crossgrove & Son, of Farnam, must take high rank. This herd has been built from a modest beginning and today is the pride of a county. The elder Crossgrove came to Farnam in an early day and has of a truth grown up with the country. A country is just as progressive as its citizens and measuring by this standard, Farnam is the center of a mighty high-class lot of country. At this point one of the best farmers' institutes of the state is held annually. The prime moving spirit of all these affairs has been Mr. Crossgrove. He has brought the best seed stock to his farm that he could find. Not only in the way of Short-horns and Durocs, but also in the way of field and farm seeds. It is more of the Short-horns that we wish to write today and we want to say that it is a treat to an old-time cattle man to visit this herd. There are good herd bulls in use and the breeding herd is made up of as fine a line of producing cows as one will find. The present herd bulls are Nonpareil Victor 2d and Allendale by Combination. The former is a massive roan with every characteristic of the prepotent sire. He is a big bull and smooth considering his years, and is a wonderful handler. He is eight years old. The young bull is strong in the blood of Whitehall Sultan and shows in every line the wonderful prepotence of his grandsire. None of his produce are yet in evidence, but he should prove well. Crossgrove & Son will make a draft sale of Short-horns on March 11th. Some fine specimens of the breed will be presented and they are now in nice condition. Further announcements of the sale will appear in The Homestead from time to time.

DUROC JERSEY hogs bred from stock that has made good wherever it has gone are the kind J. E. Weller, Faucet, Mo., breeds and sells. For ten years Mr. Weller has stuck to the big, stretchy kind and boars he has sent over a wide range of territory have made many friends for his herd as is shown by the testimanials given in a pamphlet he has issued regarding his herd. Just now Mr. Weller is making a special drive on a great string of Duroc boars of last March farrow. These boars have plenty of size, as they measure from fifty to fifty-three inches in length, have good heavy bone, plenty of quality, exceptionally good heads and excellent coats. They are ready for service and will make good. At the price Mr. Weller puts on them they are decided bargains. They furthermore are well bred, being by E Pluribus Unum, a La Follette-Malcom Model boar, and Crimson Rambler, a grandson of the immortal Crimson Wonder. Their dams are by such sires as Crimson Wonder Again, Ambition, Crimson Rambler, Tip Top Notcher, etc. Mr. Weller has a large herd and raises over 100 head of spring pigs each year which enables him to furnish a large number of good boars. His herd has done well this year and his young stock has made a good growth. For use on his E Pluribus Unum gilts Mr. Weller has just purchased of J. E. Smith, Iowa, a son of Crimson I Am, he by the champion Crimson Wonder I Am. These gilts will be offered as soon as bred. Just now Mr. Weller is making a special drive on those boars of early farrow, as is seen in his advertisement on page 33. When writing Mr. Weller kindly mention this paper.

FARMERS not infrequently fail to recognize the difference between economical necessities and absolute necessities. The use of fertilizer is an economical necessity because it not only helps to maintain the farm fertility, but it assists in the establishment of a permanent degree of productiveness that adds to profits. A book which demonstrates this fact fully may be obtained without cost by any reader of this paper who writes for it to the American Agricultural Chemical Co., Boston, Mass., or any of the addresses given in the advertisement on page 29.

CROP reports from Western Canada indicate a splendid record for the year 1913. The average yield of wheat was thirty-five bushels and in many instances it ran up as high as fifty bushels per acre. Particulars with reference to land which is open to homestead entry may be learned by writing to Frank H. Hewitt, 202 W. 5th St., Des Moines, Iowa; W. V. Bennett, Room 4, Bee Bldg., Omaha, Neb.; R. A. Garrett, 311 Jackson, St., St. Paul, Minn.. See advertisement on page 25.

FEBRUARY 17th is the date for the Short-horn sale that will be made by Jas. Leahy and M. A. Swain, Ewing, Neb. In this sale these gentlemen will sell about fifty head and they expect to make this the best offering of Short-horns that have been sold in their section of the state. Certainly they are offering good breeding, having in use or represented in their herds some of the best bred bulls of the different herds of the West. A son of Gondomar has been used extensively and with excellent results. Likewise a son of Whitehall Count has been used with grand success. He was named Red Sultan. Golden King is the sire of some stuff and Heir Sceptre has also sired some good ones. The sale will consists of about an even number of females and bulls. The stuff will be mostly young and will be presented in only good working order. The sale will be held in a splendid sale pavilion in Ewing, one of the best in the state, and those from a distance need not fear the weather for they will be made comfortable. Plan on attending this sale and if writing for any further information, kindly mention The Homestead.

THE Central Short-horn Breeders' Association has arranged to hold a two days' sale of Short-horn cattle at Kansas City, Mo., on March 25th and 26th. About 100 head of cattle (both bulls and females) will be sold. They will come from the herds of breeders who have the best interest of the breed uppermost in mind and will consign some of the best cattle produced in their respective herds. W. A. Forsythe, Greenwood, Mo., will manage the sale and all animals listed will be inspected by him before being accepted for the sale, thus insuring only first-class breeding stock. Breeders interested should write Mr. Forsythe or E. M. Hall, Carthage, Mo., secretary of the Central Short-horn Breeders' Association, as either will take pleasure in giving more complete information.

TELEGRAPHIC information from C. G. Good advises us of his arrival at New York with a splendid importation of Percheron and Belgian horses. Mr. Good has been absent for quite a length of time, making the selections for this importation and he has included in it stallions and mares of both breeds that are calculated to support the excellent reputation of the good farm and great big drafty horse such as critical buyers are looking for. Further announcements will appear in a later issue of this paper. In the meantime, however, those who see this importation will be able to make first choice of the animals it contains. Address inquiries to C. G. Good, Ogden, Iowa.

THE manager of the Blue Ribbon Stock Farm advises us that he is all sold out of Hampshire boars except one nicely marked fall pig that weighs around 350 pounds. He has, however, an extra good line of spring and yearling bred sows for sale. The yearlings are all by John Alden 7969 and are bred to Col. Joe 13209. The spring gilts are by H. C. Audley Boy 15527, and are mostly bred to Col. Joe. These animals carry some of the best blood lines and are good enough to go into any man's herd. Buyers are invited to make a personal inspection, and will be met at trains if notified in advance. For particulars and prices write to H. C. Mehring, Manson, Iowa.

SEND no money. That is the song which Sidney R. Feil sings in his advertisement on page 40. He doesn't want your money until he has proven through a sixty days' free trial that Sal-Vet is an absolute worm destroyer and live stock conditioner. His offer is to send a sufficient quantity of the preparation to last for sixty days and prepay freight charges on it. If it does what he says it will do you pay the bill. It is doesn't he cancels any charge. All you will have to do is to fill out the coupon in the advertisement and forward it to S. R. Feil, Department I H, Cleveland, Ohio.

M. W. MYERS, Beaman, Iowa, informs us that he has sold Ever Best 386670, an extra good Scotch topped yearling bull sired by King Banff 3d 337720 and out of Cedar Lawn Arabella 2d, to Mr. G. C. Longabaugh, Rich Hill, Mo. Mr. Myers also sold a pure Scotch bull to J. W. Lynch, Green Mountain, Iowa. Mr. Myers only has two good Scotch topped bulls left and these he is pricing very reasonable. They are the right kind to produce market-topping steers. See page 33 and when writing Mr. Myers kindly mention The Homestead.

THE simplicity of the X-Ray incubator is proven by the engraving which appears in the advertisement on page 18. The ease with which it is operated is illustrated by the fact that a single filling of the lamp is sufficient for an entire hatch. Their book No. 43 describing the machine and telling about prepayment of freight may be obtained by writing to X-Ray Incubator Co., Des Moines, Iowa.

POLAND Chinas of the real big sort are owned by Gilbert Johnson, Osceola, Neb., and on March 5th he will make a draft sale from his herd. The herd is strong in the blood of Wade's Jumbo, having used J.'s Jumbo in the herd for some time and still keeping a large number of sows sired by him. J.'s

Field Men for The Iowa Homestead

M. T. White, western Iowa, and northeast Nebraska. Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern, central and western Nebraska. Address 145 S. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa, Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201, Washington Building, Madison, Wis.

Jumbo was a sow sire of more than ordinary importance, and it is to be regretted that such a valuable boar has gone out of the state. Some as good Poland China sows as we have seen in a long time are here on this farm and they are sired by that boar. Among the newer boars is Choice Orange by Big Orange and Hather's Hadley 2d by Hather's Hadley. This is a big boar for the Hadley family and comes of excellent stock on the side of his mother. Hather's Hadley 2d is the sire of Hadley Over the reserve champion at Chicago a year ago and one of the best aged boars that we saw the past season. He was to have been shown at Lincoln, but the Hather herd was stricken with disease shortly before fair time and he was not shown. It is a question if another boar would have defeated him. There is a fall yearling sired by Colosso in use also. He is a fairly good boar. Last spring he looked quite promising and we still think that he will make a good boar. The sale is a long way off, yet we would like for you to keep it in mind. There are also some good farmers' boars on hand and they will be sold at farmers' prices. Twenty-five dollars will buy them.

R. G. McDUFF, Monroe, Iowa, is well-known as a great fitter of Duroc Jerseys. At the recent Iowa State Fair he had forty-three boars on exhibition that were talked about by everyone who saw them. They were extra large, smooth and had plenty of quality. On January 23d Mr. McDuff will sell fifty-seven head of bred sows and gilts that are probably as good as will be sold anywhere this year. The fifty spring gilts and five fall yearling sows weighed on December 12th an average of 300 pounds each, one spring gilt weighing 365 and a number of them from 325 to 350. They will be sired by Col. Gano, King the Col., Golden Model 30th, I Am A Crimson Wonder 2d, and Cols. Chief. They will be bred to Golden Model 34th, the great son of Golden Model 2d that won grand championship in 1913 at the Nebraska State Fair. We will have more to say of this offering in succeeding issues.

R. F. FRENCH, Independence, Iowa, made a good winning on his Belgian stallions and mares at the recent Iowa State Fair. He sold a pair of these prize-winning mares last week to Beaumer Bros., St. Cloud, Minn. He sold a great three-year-old stallion, Paulis, a nephew of Paul, the Brussels champion of 1911, to a party at Stanley, Iowa. This stallion is a typical Belgian, with very heavy bone, the best of feet and a grand mover. Mr. French has been fortunate in not having a sick horse this year. The prospective buyer can get a stallion or pair of mares that are given exercise in open pastures every day. They are chained out daily in order that they may get a little grass as well as exercise. This insures them being regular breeders for the buyer. If interested in a good Percheron stallion or mare, write Mr. French, mentioning The Homestead. See page 34.

W. H. COOPER, Hedrick, Iowa, one of the best known of big-type Poland China breeders, is making a special offering of March and April gilts bred for March, April and May farrow at $40 each. They are sired by his noted herd boars, Big Bone 2d, Chief Leader, Big Expansion, Giant Look and others. Their sows are the kind that weigh from 500 to 800 pounds and the gilts he is offering are sure to get as large if given proper care. If you send Mr. Cooper a check for $40 he will send you a gilt and if upon arrival you are dissatisfied, send the gilt back and he will refund your money. If they die from cholera he will refund your money or replace the gilt. He is selling them very fast under these conditions and if you want one you had better send him an order at once. See page 39 and when writing kindly mention The Homestead.

GEO. EGGERT, Newton, Iowa, writes from London, England, under date of November 27th, saying that he will sail from London on December 4th on the Minnewaska, due to arrive in New York, December 13th, and at Newton on December 15th, with the best bunch of Belgians and Percherons he has ever imported. He states that he has had a very hard time to buy good ones and that he would buy nothing else. He says that the Belgians will average as good as his Iowa champion stallion in 1912. He will be glad to have any prospective purchaser visit his farm and look over his horses. Mr. Eggert believes he can please the most critical judge, both in horse as well as in price. See page 35 and when writing kindly mention The Homestead.

ON page 38 J. B. Slepicka & Sons advertise Chester White hogs. They have an excellent lot of animals, descendants of prize winners at the Nebraska State Fair and right every way. They have some good boars that will weigh from 125 to 225 pounds, which they are offering at from $20 to $30 each. A few sows bred for April farrow will be sold at $35. They have also for sale one promising herd boar, that is a show hog all over, weighing 225 pounds at $50. Detailed descriptions concerning these animals may be learned by writing to J. P. Slepicka & Sons, Wilber, Neb.

MARCH 18th is the day set for the Short-horn sale that will be made by Gates & Manes, Albion, Neb. This sale will mark the entire dispersion of one of the best small herds of Short-horns within the state. The entire herd will number about fifty to sixty head and they all go in this sale. One of the best Scotch herd bulls in use in Nebraska goes in this sale. He is a four year old, and of the most pleasing lines. He is a bull that would show well in the very best company and is also a sire of the real good stuff. The cow herd is one of the choicest sort. They have been selected with great care and while no sensational prices have been paid, yet in every instance these gentlemen have sought to get the very best stuff obtainable. All these choice cows, some very select young females and a few very fine young bulls and this grand herd bull will sell. Keep this date in mind and if possible get to this sale. We would advise that you write early for the catalog, better just send in your name on a postal now and that will insure your getting the catalog as soon as out. Should you write, kindly mention The Iowa Homestead.

Dates Claimed for Live Stock Sales

Short-horn Cattle.

Dec. 30, O. E. Wade, Rising City, Neb.
Jan. 6, Louis H. Scheetz, Belle Plaine, Iowa.
Feb. 17, Leahy & Swain, Ewing, Neb.
Feb. 26, W. B. Bonnifield, Ottumwa, Iowa.
Feb. 27, J. C. Hardman & Son, Valley, Neb.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, Geo. H. Burge, Mt. Vernon, Iowa.
Mar. 18, Wm. Herkelman, Elwood, Ia.
Mar. 18, Gates & Manes, Albion, Neb.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.
Mar. 25, A. C. Shallenberger, Alma, Neb.
Mar. 25-26 Central Short-horn Breeders' Association, Kansas City, Mo., W. A. Forsythe, Mgr., Greenwood, Mo.
April 15, Bellows Bros., Maryville, Mo.
June 9, M. W. Myers, Beaman, Iowa.

Hereford Cattle.

Jan. 13, E. M. Elliott, Montezuma, Ia.
Jan. 14, Henry Reimers, Gladbrook, Ia.
Jan. 15, F. O. Peterson, Galva, Iowa.
Jan. 28, Mousel Bros., Cambridge, Neb.
Feb. 18, Geo. J. Anstey, Massena, Ia., sale at South Omaha, Neb.
Feb. 19-20, Nebraska Hereford Breeders. Sale at Grand Island. R. D. Mousel, Cambridge, Neb., Mgr.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 5, J. A. Shade, Kingsley, Iowa.
Mar. 6, J. B. Ashby, Audubon, Iowa, sale at South Omaha, Neb.
Mar. 9, B. W. Gregory, Harlan, Ia.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, E. W. Crossgrove & Son, Farnam, Neb.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.
Mar. 24, Ben Broughton, Lake View, Iowa.

Aberdeen Angus.

Feb. 19, Patrick Leahy, Williamsburg, Iowa.
Mar. 25, C. J. Martin, Jefferson, Ia.
Mar. 26, C. M. Russell, Carroll, Iowa.
Apr. 1-2, Escher & Son and Escher & Ryan, Botna, Ia. Sale at South Omaha.
Apr. 28, Association Bull Sale, Omaha, Neb.
Apr. 29, Association Bull Sale, Chicago, Ill.
Apr. 30, Association Bull Sale, East St. Louis, Ill.
May 5, Harvey J. Hess, Waterloo, Ia.

Holstein-Friesian Cattle.

Jan. 15, F. E. Zimmerman, Metamora, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Poland China Swine.

Jan. 20, E. Gritters, Perkins, Iowa.
Jan. 20, R. A. Schug, Coleridge, Neb.
Jan. 21, Mrs. Peter Ellerbroek & Sons, Sheldon, Iowa.
Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Sibley, Iowa.
Jan. 24, Beal & Jackson, Roca, Neb.
Jan. 29, A. C. Lanham, Aurelia, Ia.
Feb. 2, Coleman Bros., Ithaca, Neb.
Feb. 3, Theo. Martin, Bellevue, Ia.
Feb. 3, C. A. Rosenfeld, Kelley, Ia.
Feb. 3, C. W. Francisco, Inland, Neb.
Feb. 4, John Jacobson, Gilbert, Ia.
Feb. 4, E. C. Forest, Lyons, Iowa.
Feb. 4, A. Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Ia.
Feb. 6, Williams Bros., Villisca, Ia.
Feb. 6, John I. Dripps, Springville, Iowa.
Feb. 6, Morris Fowler, Arcadia, Neb.
Feb. 7, J. T. R. Nash & Son, Minden, Neb.
Feb. 11, D. C. Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, Maasdam & Wheeler, Fairfield, Iowa.
Feb. 13, W. E. Epley, Diller, Neb.
Feb. 13, J. O. James, Braddyville, Ia.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Ia.
Feb. 17, James Lawler, Clare, Iowa.
Feb. 17, H. Fesenmeyer, Clarinda, Ia.
Feb. 17, G. J. Bloemendaal, Alton, Ia.
Feb. 18, Pfander & Sons, Clarinda, Ia.
Feb. 19, C. W. Phillips, New Sharon, Iowa.
Feb. 19, L. R. McClarnon, Braddyville, Iowa.
Feb. 20, Frank Rainier, Logan, Iowa.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 24, C. H. Porter, Eagle Grove, Ia.
Feb. 24, R. R. Blake, Dallas Center, Iowa.
Feb. 25, W. J. Crow, Webb, Iowa.
Feb. 25, J. H. Fitch, Lake City, Iowa.
Feb. 25, R. W. Halford, Manning, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Ia.
Mar. 3, A. W. Stewart, Harlan, Ia.
Mar. 5, Gilbert Johnson, Osceola, Neb.
Mar. 7, J. H. Healy, Manilla, Iowa.
Mar. 9, John S. Barnard, Nelson, Neb.
Mar. 10, Joshua Morgan, Hardy, Neb.

Percheron Horses.

Jan. 14, Glick & Son and J. S. Hegarty, (sale at Stanwood), A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27, Lee Bros., Harveyville, Kan., sale at Manhattan, Kan.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.
Feb. 19, Chas. Irvine, Ankeny, Iowa.

Percherons, Belgians and Shires.

Mar. 19-20, North & Robinson Co., Grand Island, Neb.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Belgian Horses.

Feb. 19, Chas. Irvine, Ankeny, Iowa.

Draft Horses.

Feb. 3-5, Breeders' Sale Co., Streator, Ill.

Duroc Jersey Swine.

Jan. 10, U. G. Davidson, Algona, Ia.
Jan. 10, John Hansen, Herman, Neb.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, A. J. & L. L. DeYoung, Sheldon, Iowa.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, F. E. Zimmerman, Metamora, Ill.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 15, Ira H. Dodson & Sons, Aledo, Ill.
Jan. 17, C. R. Steele, Ireton, Iowa.
Jan. 19, Peter Streit, Sublette, Ill.
Jan. 19, D. Nauman & Son, West Liberty, Iowa.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 20, Wm. Zimmerman & Sons, McNabb, Ill.
Jan. 21, Hanks & Bishop, New London, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 22, J. C. Droz, Fairfield, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, Kuper Bros., Bellevue, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Ia.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, LakeCity, Ia.
Jan. 26, H. S. Fain, Emmetsburg, Ia.
Jan. 27, E. E. Handley, Carroll, Ia.
Jan. 27, F. H. Dickey, Emmetsburg, Iowa.
Jan. 28, Grant Lynn, Spirit Lake, Ia.
Jan. 28, B. F. Danford, Ord, Neb.
Jan. 28, P. W. Weberg, Denison, Ia.
Jan. 29, O. S. Larson, Logan, Iowa.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Ia.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 2, Hugh M. Ficke, Long Grove, Iowa.
Feb. 2, R. J. Harding, Macedonia, Ia.
Feb. 2, E. H. Carpenter, Fontanelle, Neb.
Feb. 3, Economy Stock Farm, Shenandoah, Iowa.
Feb. 5, Swan & Ellis, Indianola, Ia.
Feb. 6, H. S. Allen, Russell, Iowa.
Feb. 7, Wellendorf & Son, Algona, Ia.
Feb. 9, O. E. Green, Genoa, Neb.
Feb. 10, J. C. Danner, Yale, Iowa.
Feb. 10, Merfield & Sons, Greene, Ia.
Feb. 13, Wm. Moderow, Beemer, Neb.
Feb. 14, Herman Toelle, West Point, Neb.
Feb. 16, Briggs Bros., Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, A. D. Freed, Kelley, Iowa.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, Madison Spencer, Audubon, Iowa.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 20, W. M. Putman & Sons, Tecumseh, Neb.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 24, Fred Swan, Missouri Valley, Iowa.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 27, B. W. Hunt, Denison, Ia.
Feb. 28, T. J. Link, Winterset, Iowa.

Hampshire Swine.

Jan. 15, F. O. Peterson, Galva, Iowa.
Feb. 4, C. A. Brook, Washington, Ia.
Feb. 17, F. T. Quire & Tice Bros., Sully, Iowa.
Feb. 24, Clayton Messenger, Keswick, Iowa.
Mar. 7, C. P. Paulsen, Nora, at Fremont, Neb.
Mar. 12, H. D. De Kalb, De Kalb, Ia. (Sale at Council Bluffs, Iowa.)
Mar. 19, Roy E. Fisher, Winside, Neb.

Chester White Swine.

Jan. 28, Alden Anderson, Ellsworth, Ia.
Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Ia.
Feb. 25, J. L. Barber, Harlan, Iowa.

Shropshire Sheep.

Jan. 8, Leonard & Son, Corning, Ia.

POLLED Durham bulls of Scotch breeding are offered for sale by M. Yoakam & Son, Webster, Iowa. They have about a dozen yearling bulls largely sired by their grass herd bull, White Gauntlet, a son of the noted Golden Gauntlet, and of the Lady of the Meadow family. White Gauntlet is a massive 2,200-pound bull with a good spring of rib and of splendid beef conformation. One of the best young bulls is a roan son of White Gauntlet of the Sweet Briar family, the second dam in his pedigree being imported. This bull is a big rugged fellow and should do someone plenty of good. There is another roan yearling Orange Blossom bull by White Gauntlet that is of a pleasing conformation. There is a two-year-old Orange Blossom bull by White Gauntlet that has been used some in the herd and a three-year-old son of Royal Tip that would be sold. There is another roan Myrtle by White Gauntlet that should make good if given the proper care. The entire offering is largely descendants of animals bred by the noted Polled Durham breeder, J. H. Miller, of Indiana. A few cows and heifers would also be sold. Webster is located in Keokuk county on the junction of the Montezuma-Muscatine Branch of the Rock Island and the Marion-Ottumwa Branch of the C. M. & St. Paul. Write these gentlemen for prices and breeding, kindly mentioning The Homestead. See page 33.

ANY farmer who is looking for a choice location will be interested in the advertisement of E. H. Bente on page 25, in which he announces the sale of his farm six miles southeast of Elkader. This farm consists of 185 acres, which is located in a section of splendid soil in which farms are well improved by desirable citizens and where land is of the most productive character. On this farm 145 acres are under plow, the remainder is choice timber land, which will be good plow land when the timber is taken off. There are two large springs, which furnish never-failing water for pastures, and a splendid equipment of buildings including a new eight-room modern dwelling house with a good basement. There are connections with both well water and soft, cistern water. There is also a fine eight-year-old orchard of 100 apple trees with plum trees and other fruits and a good evergreen windbreak. Liberal terms will be quoted at this sale. Possession will be given on or before January 1st, next. Any additional facts may be learned by addressing E. H. Bente, Elkader, Iowa.

WRITING under recent date T. A. Stevenson, one of the veteran breeders of Chester White hogs in the West, says: "I am offering some great inducements in the way of Chester White males and those who want to purchase good ones of the extra sort for the prices of other kind should write at once. I have the best lot of hogs this season that I have ever raised. They are simply great and the breeding is of the very best. I will ship pigs C. O. D. to responsible parties if they so desire. My ambition is to make satisfied customers and give the man the worth of his money every time. For the next ten days I will do even more than this." Write for prices and descriptions. Address T. A. Stevenson, Shannon City, Iowa.

FRANK N. CROW, Oxford, Iowa, writes that he is entirely sold out of Duroc Jersey boars, but has twenty head of extra good March and April gilts, five fall yearling sows and five aged sows that are bred for March and April farrow and that he will sell them worth the money. They are bred to a son of Col. Joe by Proud Col., and out of a dam by Wonder Model. This boar is a big-type boar and these sows should produce excellent litters from these matings. Mr. Crow also has a few late summer gilts that he will sell open, sired by Prize Wonder, a good young boar. See page 33 and write Mr. Crow mentioning The Homestead.

CHAS. L. BERRY, Iowa City, Iowa, is offering for sale Duroc Jersey boars of different ages, at prices that should move them. He also has a few sows and gilts that are bred for spring farrow and all have been vaccinated. See the Duroc Jersey advertisement on page 33. Mr. Berry is also offering White Plymouth Rocks of the same family as his prize winners at the Davenport Show, and he is also offering the winners at that show. See the poultry department. When writing Mr. Berry kindly mention The Homestead.

E. W. KREISCHER, Mt. Vernon, Iowa, will hold a sale of big-type Poland China sows February 5th, and we want to say to our readers that he will have a grand good offering. Last year his average was $76 on bred sows and we believe he has as good a bunch this year. Keep the date in mind and watch this paper for complete information of the offering.

HUNTERS will be interested in the advertisement of B. H. Smothers, Burnt Prairie, Ill., which will be found on page 19. That gentleman offers for sale two two-year-old coon dogs that are good in every particular and trained in the hunting of opossums, coons or minks. He wants $25 for each of them.

A HEREFORD cattle sale will be held by E. W. Elliott, Montezuma, Iowa, on January 13th at which time he will sell thirty-four head of Herefords consisting of fourteen bulls and twenty females. We will give our readers a full description of this offering in a later issue.

A NUMBER of Illinois breeders and importers of draft horses have organized a breeders' sale company, at Streator, LaSalle county, Ill. This com-

pany has incorporated under the name of the Breeders' Horse Sale Company, of Streator, Ill., and will hold annual sales of imported and American-bred registered and grade draft horses of all breeds, also light harness horses, single drivers and ponies. Streator is idealy located for a sale of this kind. It is situated in the richest agricultural district of the world and more full blood and registered horses are raised in this section than in any other part of the country. More good draft horses are bought and sold in Streator annually than in any other city in the state outside of Chicago. Many of these horses go to all parts of the country and it is a common occurence to see our local small breeders shipping a car load of good ones to the West and Northwest. Streator is located on the main line of the A. T. & S. F. R. R., the I. C. R. R., the Forrest branch of the Wabash R. R., the Dwight Peoria branch of the Alton R. R., the Fox River branch of the Burlington and the I. V. & N. branch of the Burlington R. R. Also has interuban connection to all northern parts of the state. It is the hope of the parties interested in this sale that in time they will be able to build up the largest and best horse sale in this country. The company is backed by men of the highest standing as business men and breeders. They will hold their first sale on February 3, 4, and 5, 1914, in a mammoth sale pavilion at Streator, Ill. The first-class accommodations which they have provided for horses will be pleasing to all buyers. Breeders seeking a good market for their horses will do well to consign to this forthcoming sale. Their entries will close January 3d. A sufficient number of horses to guarantee success have already been consigned and it would be well for you to get in line and apply for entry blanks to T. F. Kennedy, secretary, Streator, Ill. See advertisement on page 34.

POLAND Chinas boars, $25.—Those of our readers who want to buy a good Poland China boar of the large-type kind should send their order at once to James Cockerton, Whiting, Iowa. He has one of the best herds in western Iowa and he still has quite a few choice boars that he is closing out at $25 to $35. In writing us about these boars he says: "I have some good, big, heavy-boned boars left and these are good and I am closing them out at $25 and $35. If any Homestead readers want a good boar at these prices, just tell them to send their check and I will guarantee they will get a boar worth the money. Now, let them get their orders to me early, and they will get a good pig." When writing Mr. Cockerton kindly mention The Homestead.

BREEDERS of Duroc Jersey hogs who are in need of good yearling herd boars should get into communication with J. C. Porter, whose advertisement may be found on page 33. Mr. Porter has two October yearlings by R. J.'s Chief, a grandson of Ohio Chief, and out of a dam by Crimson Wonder Again. They weigh from 325 to 350 pounds. They have extra length, good, heavy bone, nicely arched backs, good heads and ears, and, while not overloaded with fat, they are in good fair condition. They have received treatment for immunity and are safe to buy. Mr. Porter wants to get rid of them quickly and for that reason will make very low prices. Address J. C. Porter, Ogden, Iowa.

A. L. GOODENOUGH, Morrison, Ill., one of the best breeders of Hampshire swine, is entirely sold out of boars. He has a fine lot of gilts that are bred and ready for sale, a number of which will weigh 250 pounds at the present writing. A representative of this paper inspected this lot of sows recently and we do not know where a man could get better values in an extra good bred gilt than at Mr. Goodenough's. He is pricing some of these best gilts at $50 each, which is less than their real value. He has issued a catalog which will be sent free to anyone interested. When writing Mr. Goodenough kindly mention The Homestead. See page 33.

BUYERS of Chester White hogs should direct their attention to the advertisement of Glenn F. Rider, which appears on page 33. Mr. Rider feels compelled, owing to local conditions, to make reduced prices in an effort to dispose of his surplus stock quickly. He, therefore, will ship stock C. O. D. subject to inspection and gives three pedigrees with each animal shown. Additional particulars with reference to this unusual offer may be learned by writing to Glenn F. Rider, R. 2, Farmington, Iowa.

SHIPPING hides to the Cownie Tanning Company is like putting money in the bank. You know that they are in safe hands and that you can get them when you want them. The Cownie people believe they can save their patrons 50 per cent of the cost of a fur coat or robe. The large illustrated catalog tells how. Secure a copy of it by writing to Cownie Tanning Co., 508 Market St., Des Moines, Ia. See page 17.

FIFTY Chester White sows and gilts are advertised by S. J. Philson, R. 6, Harlan, Iowa. He also has a few spring boars and one herd boar and would be glad to quote prices to our readers. See advertisement on page 33.

J. G. WESTROPE, Harlan, Iowa, is advertising a great string of high-class young Scotch bulls for sale on page 37. Make it a point to go and see these bulls if you are on the market for a herd bull.

THE progress that any certain breed of livestock has made in the past, and we presume that the same rule will hold good in the future, has been made largely by a few men. The really great breeders of livestock are not so many, but that they might be easily remembered. Among those that have contributed much to the cause of the good Herefords we wish to mention Mousel Bros., Cambridge, Neb. For some fifteen years these gentlemen have made an extra effort to produce only the very best to be had, and they have succeeded. Today their herds are noted the world over. They have sent out Herefords that have won in the hottest competition of this country, where the best beef cattle of the world are now produced. The get of the great Princeps and today the get of Beau Mischief are the chief causes of their success. At the recent International a group of calves the get of Beau Mischief were the chief objects of attention among all the good cattle shown at that place. The first-prize senior heifer calf was among the five shown, and all of the calves got a place and practically without fitting. The writer was on the Mousel farm late in the season and all the calves shown at Chicago were then running in the pastures without any grain whatever. The writer has bred many Herefords, have been in close touch with them for a lifetime, and we do not think we ever saw a better heifer than the one that was placed first at Chicago. True she is not highly fitted, bue she is certainly good. A senior bull calf is also good and was a good winner at Chicago, but a junior calf that was not shown is one of the very best that we have seen in years. He is quite late, having been calved in May or June, but he is good. There are a lot of good calves here sired by Beau Mischief, and they all go in the great sale that will be held in Cambridge on January 28th. Some of the most valuable Herefords that have been sold in many years will be offered at this time. Be sure that you get your name in so that you may be certain of a catalog, and we would suggest that you write at once. The catalogs will soon be off the press, so drop a postal for one today.

POLAND China bred sows afford a good investment for the average corn-belt farmer, and have helped more men to prosperity than any other single farm animal. Good sows of this breed, bred to good boars are for sale by W. B. Cooper, Milford, Neb., and are priced so that any farmer that can own a brood sow at all can afford to buy them. Mr. Cooper makes no public sales, but sells his stock so that they afford him a small margin of profit and so that a buyer once is afterward a satisfied patron that looks to him for his breeding stock at all times. We know whereof we speak when we say that Mr. Cooper is one of the good Poland China breeders of the country, and maintains a really high-class herd. One is indeed fortunate that he can buy such good stock at the prices asked which are from $20 to $30 per head for good bred gilts. It seems that when good stock can be had at these figures that there would not be a farmer but that would own a herd of pure breds. Polands from this herd have weighed 300 at seven months. They are the big kind and an early order will assure the buyer a good selection. Address W. B. Cooper, Milford, Neb., and mention The Homestead when you write. See advertisement on page 33.

NATIVES of France are distinctly favorable to Frenchmen. For this reason a person that claims that country as the land of his nativity is in position to do better buying of horses in that famous land of good ones than people of other nationalities. Jos. Rouselle & Son, Seward, Neb., are not only natives of that country, but they are mighty good judges of horses as well. They annually import some very fine specimens of the Percheron and Belgian breeds, and this season they are a little better fixed than formerly. They have some exceptionally good ones, although they have no great number. At present they have something like a dozen Percherons and about half that many Belgians. They grow their own feeds, on their own farms and by saving a little all around from the cost of buying to the cost of selling, they are enabled to make a substantial saving to buyers. If interested in a good horse, write Jos. Rouselle & Son, Seward, Neb. See advertisement on page 35.

RING BROS., Newton, Iowa, breeders of Poland China hogs place a new advertisement on page 33. They are advertising an excellent lot of bred sows and gilts and offering them at remarkably low prices. They describe these as heavy boned, strong footed animals with good length and deep, strong backs, and good markings. The blood lines are good. At the fall fair at Newton they took eight first premiums and three second premiums. The animals are all cholera immune. For special descriptions write to Ring Bros., Newton, Iowa.

CHOICE Poland China boars are offered for sale at reduced prices for the next fifteen days by Wm. H. Nolin, Monroe, Iowa, whose advertisement appears on page 33. The gentleman advises us that he has still for sale a few big, smooth, strong-boned boars, sired by Big Standard and Giant Chief. These have all been through cholera early in the fall and are thrifty and in good form. For quick bargains they are offered at from $20 to $25. Some high-class gilts are also for sale.

STOCKMEN generally are quick to see a bargain, and profit in livestock farming is largely due to being able to see value in an article offered and buying the same before someone else does. Following this trend one would think that the Duroc Jersey pigs that are being offered by D. S. Cochran, Route 7, Lincoln, Neb., would not last a day, nor would they if everyone were able to see them. They are sired by Royal Wonder, as good a breeding boar as is within the state of Nebraska today and they are from choice sows of good breeding. Mr. Cochran has a lot of hogs, has a number of sows to farrow this month, did not intend to have them, but during the fair the boar was among the sows a few days and a number of December litters will be the result. He does not want to lose this lot of pigs, but he is short of room for everything, hence he is making prices on these fall pigs that are really unusual. He is also offering bred gilts, some of them bred to Royal Wonder, and they go at prices any farmer can afford to pay. Get in line on this good stock without delay. Mention The Homestead and write as above at once. It is to your interest to do so. These pigs are extra good, and they are cheap at the prices asked.

KEROSENE engines and feed mills are advertised by the Fuller & Johnson Mfg. Co., on page 17. According to this advertisement government experimentors advise the grinding of feed for cattle because it economizes in the quantity of feed necessary to bring them to maturity and market form. The Fuller & Johnson steel mills crush and grind feed to any degree of fineness. For catalog and descriptive circular address Fuller & Johnson, Mfg. Co., 12 Ironton St., Madison, Wis.

A PUBLIC sale of Duroc Jersey sows is announced by T. J. Link, Winterset, Iowa, for February 28th. Mr. Link will not have a large consignment, but he will have a good one from every point of view. The entire lot has been given the double treatment and are in perfect health and may be considered immune from attacks of cholera. A portion of them are the get of Prince Albert's Choice and Missouri Girl. Later announcements concerning this consignment will be given in this paper.

DANIEL LEONARD & SON, Corning, Iowa, announce a public sale of Shropshire sheep to take place on the 8th of January next. The Leonard flocks are among the oldest in the West and have produced animals of strictly first-class character that have been uniformly satisfactory to buyers. They will put forward a splendid consignment at this sale. Further announcements will appear in later issues of this paper.

PEDERSON'S Poland China herd boar, Long Orange, illustrated on page 28 is a Poland China of unusual merit. He is a son of the 1,000-pound Big Orange, has good length and is of uniform build, heavy boned and stands right up on his feet. He is the sire of a good number of the spring boars offered for sale by Mr. Pederson and many of the sows to be cataloged for the February 16th sale will have been bred to him.

TEN choice fall sows are offered for sale bred to the grand champion Iowa State Fair Duroc Jersey boar, Big Wonder, by the Economy Stock Farm, Shenandoah, Iowa, on page 38. These are fall sows and are daughters of Col. Gano, King the Col., and Morton's Ton Col. Write the above firm at once and get their prices on these sows. Kindly mention The Homestead when writing them.

WILL THOMPSON, Jesup, Iowa, makes a change in his Duroc Jersey advertisement that will attract the attention of those who want strictly good Duroc Jersey boars. They have been given double treatment and are, therefore, cholera immune. He has a lot of them and will make extremely low prices to those who buy at once. He contemplates a brood sow sale some time in February.

A RECENT note from W. Z. Swallow, of the Pioneer herd of Poland China hogs, informs us of the sale of one boar to a buyer at Perry, Iowa, one to the Flynn Farm Company, Des Moines, Iowa, one to a California breeder, and another to Lyons, Kan. A few more remain for sale. Write for particulars to W. Z. Swallow, Waukee, Iowa.

BREEDERS of Duroc Jersey hogs, who are in search of a herd boar should write to T. Denney, Grimes, Ia. That gentleman offers for sale a great big, good, two-year-old son of Advancer First that topped the Bennethum sale a year ago. He will be sold at a very reasonable price. Address inquiries to J. T. Denney, Grimes, Iowa.

SOME time since Annie B. Thurman, Blanchard, Iowa, announced that at the public sale of livestock, the home farm would be sold. For various reasons the sale was not effected. The farm may be purchased at private sale and at a reasonable price. It is good land in an excellent community and well equipped for stock raising and general farming.

IMPORTED and home-bred Percheron, Belgian and Shire stallions and mares are advertised for sale by P. J. Eggers, Denison, Iowa, on page 36. His barns are located right near the C. & N. W. depot. Call and see his horses if you are on the market for either stallions or mares.

CATALOG and prices of tanning of the best sort may be obtained by writing to Willard, Son & Company, Box 425, Marshalltown, Iowa. This firm not only do tanning, but they manufacture fur coats and robes as well. See advertisement on page 17.

PROBABLY no investment will return as great a per cent of profit and pleasure as will a small investment of a good Scotch Collie puppy. These ever watchful and intelligent animals make good playmates and also good helpmates. The playing part should not be allowed to take too much of the young puppy's time until he has been trained to do some work, yet they are so keen to be doing things that they are easily trained. A good stockman should own a good Collie and allow him to take many of the steps that would otherwise fall to someone that is already well wearied with the routine tasks about a farm. W. B. Cooper, Milford, Neb., has made a business of breeding good Collies for many years and today has for sale several very fine sable and white puppies. They are old enough to wean and to begin training. They will be sold at $5 each while they last. Orders should be sent early, for they will not last long at the prices asked. Mention The Homestead when you write. Kindly notice the advertisement on page 19.

JEFFERY—that tells the story. Whenever you hear the word Jeffery you know that it means the large car illustrated in the advertisement on page 9. You know that it is a car which combines all the comfort, quality, beauty and economy that can be crowded into any vehicle selling for $1,550. Of course there are a few items of minor information that you might want to know. If you do just drop a card of inquiry to the Thomas B. Jeffery Co., Kenosha, Wis.

AN Imported Belgian stallion six years old is offered for sale by the First Bank of Thayer, Thayer, Iowa, as per advertisement on page 34. The horse is offered for sale not because of any fault, but because he came into the hands of the bank in an ordinary business transaction, and as they have no use for him they now put him on the market. He is a dark bay roan, weighs a ton and is right in every respect. He will be sold cheap. Write to the address named.

SHORT-HORN bulls for sale.—A few good young Scotch and Scotch-topped bulls are advertised for sale by Perry O. Brown, Lamoni, Iowa, on page 33. One of these is a dark red Lancaster bull sired by Western Star, and he is out of a dam by Lord Mutineer. Another is a Duchess of Gloster and sired by Victor Sultan. He also has a good Marsh Violet bull, and a couple good Scotch-topped bulls. Write Mr. Brown about these bulls or go to see them.

VAN STEENBERGE Belgian horses have been of a high standard of excellence for a good many years. At the present time the stables at Ogden, Iowa, contain more than half a hundred high-class imported and home-bred stallions and mares. Reasonable prices will be quoted on them. Personal inspection solicited. Address inquiries to A. M. Van Steenberge, Ogden, Iowa. See advertisement on page 34.

HEREFORD bulls and heifers are offered by Jesse Engle & Son, Sheridan, Mo. Many of these are by their good breeding bull, Beau Blanchard, sire of their junior yearling bull that won third in the strong class at the International. Some of the females not by him are in calf to him. Note page 36 for their advertisement.

KALAMAZOO stoves direct from the factory are like Christmas gifts. They please everybody. The Kalamazoo Stove Book illustrates 400 different makes of heating stoves at the most reasonable cost. Ask for catalog 185, Direct inquiry to Kalamazoo Stove Company, Kalamazoo, Mich. See advertisement on page 22.

THE Snoddy hog treatment advertised on page 27 is an important preparation for use in hog troubles. Its action is quick and effective. It prevents disease and destroys worms. It is made and sold by the Dr. D. C. Snoddy Company, Nashville, Tenn. Any information concerning it may be obtained by writing to that address.

WRITING with reference to his January 23d sale of big-type Poland China sows, E. E. Farver, Ocheyedan, Iowa, informs us that he will sell fifty head that are as good as any man will drive through the sale ring this winter. Mr. Farver will sell at Sigley. Later announcements will appear in this paper.

FARMERS who contemplate the construction of a building of any sort should investigate the merits of Genasco Ready Roofing, such as is advertised on page 8. While it is generally sold by dealers, information may be obtained by writing to Barber Asphalt Paving Co., Philadelphia, Pa.

AN immune yearling Duroc Jersey herd boar is advertised by H. C. Huston on page 33. The hog is a son of the grand champion Chief's Colonel, an excellent individual, and will be sold at a most reasonable price. For complete description write to H. E. Huston, Iowa Falls, Iowa.

PATRICK LEAHY, Williamsburg, Ia., announces a sale of Aberdeen Angus cattle for February 19th, at which time he will sell sixty head of superior specimens of the breed. Further information will be given our readers in due time regarding this event.

MR. WM. STOLL, R. 10, Le Mars, Iowa, is advertising Chester White boars on page 33 of this paper. He has some good ones that he will sell at reasonable prices. He invites inspection. The brood sows of his herd are of the popular and profitable sort.

IMPORTED Short-horn bulls and heifers are advertised for sale by R. O. Miller, Lucas, Iowa, on page 37. He has some corking good ones and he is

cing them where they will sell. It ll pay you to go and see this im- rtation at once.

PURE seed corn of Reed's Yellow Dent, Learning and Boone County White varieties are offered for sale by E. G. Lewis. This corn is well dried and will be sold at very reasonable prices. Address inquiries to E. G. Lewis, Media, Ill.

SHORT-HORN bulls bred in the rich- est Scotch lines and possessing in- dividual merit that will please the most critical are for sale by J. F. Prather, Williamsville, Ill., who will send a cata- log on application. See page 37.

POPULAR strains of Single Comb White Leghorn cockerels and hens are advertised on page 19 by George Gaul, Tipton, Iowa. The prices quoted are remarkably low when the quality and breeding are given consideration.

H. F. HOFFMAN, Birmingham, Iowa, is gaining a reputation for raising big Poland Chinas. Some time since he sold Big X. L. 183427, the hog that measured thirty-seven inches high, and weighed 950 pounds.

POLAND China boars—cholera im- mune fellows, are advertised for sale at from $20 to $40 by A. W. Stewart, Harlan, Iowa, on page 39.

THE LIVESTOCK MARKET.

Union Stock Yards, Chicago, Decem- ber 13.—Outside Wednesday morning's mean market, which was due solely to an excessive estimate and tardy rail- road deliveries, the cattle trade has done a very creditable stunt this week, and while the talent expects enough cattle to go around during the next ninety days a belief exists that the worst has been developed. A run of about 65,000 here this week, or 16,000 more than last week, has enjoyed action and the shipping outlet is perceptibly wider, oved 25,000 going in that direc- tion. November receipts to date are around 18,000 less than last year and all Missouri river points show decreases compared with the corresponding period of 1912. The six market run this week is 162,000 against 130,000 last week, but the increase has done no damage to prices. During the corresponding week last year the six markets received 184,000.

Whenever a steamer direct from the River Plate reaches New York, that market will be full of Argentine beef, but as most of it is in the hands of the big packers, they can be depended on to avoid demoralization, which would be adverse to their own interest. Every pound of imported stuff displaces just so much native beef, however.

Liquidation has been in full swing these many weeks past and it is prob- able that the big crop of beef started on the bumper corn yield of 1912 has gone to killers' hands. Fat steers with weight will soon be as scarce as they have been abundant and a few will al- ways be wanted. For the next sixty to ninety days liquidation of short fed cattle is to be expected. Many steers now in feeders' hands were bought high and that kind of stock never is regarded favorably. The feed bill is high and the desire to get into another and cheaper set of cattle strong. The hold-'em-back admonition is not likely to prove effective. About the only cloud in the sky is industrial depression. Idle men are sparing meat consumers. So far as supply is concerned an optimistic forecast is warranted.

BEEF STEER QUOTATIONS.

Choice to prime yearlings	$9.15@9.60
Good to choice yearlings	8.60@9.15
Good to choice handyweights	9.00@9.50
Good to prime heavy	8.75@9.25
Plain heavy steers	8.00@8.35
Short-fed steers	8.00@8.50
Good light killers	7.75@8.20
Medium light killers	7.50@7.70
Cheap light killers	7.00@7.50

Starting with a rush of speculative buying on Monday at irregularly higher prices, the butcher market turned bad before the close of that session and continued on the down grade on every- thing excepting strictly good to choice handy heifers on the yearling order throughout the first half of the week, since holding with little change. The close shows 15 to 25c declines from a week ago on practically all grades of cows from canners up to prime, cutters and medium to right good butcher cows showing the most loss, but canners also coming in for a material decline. Heifer trade has been in good shape all week on the good to choice fat yearling and tidy weights of nice killing class, such showing about a steady level with a week ago, but other grades of heifers are irregularly 10@25c lower. About the only change in the bull trade from the close last week is slight weakness, hardly more than 10c in any case, on heavy bolognas and fat heavy bulls. A good veal calf trade is looked for next week on the right kind of stuff to supply the holiday demand, but a widening in the price range seems probable. Quo- tations:

BEEF COWS.

Common to fair	$4.60@5.10
Fair to good	5.10@5.60
Good to choice	5.60@6.35
Choice to prime heavy	6.35@7.00
Prime to extra dry fed	7.00@7.65

CANNERS AND CUTTERS.

Inferior canners	$3.25@3.50
Poor to fair canners	3.60@3.85
Good heavy canners	3.90@4.15
Fair to good light cutters	4.15@4.35
Good heavy cutters	4.35@4.60

HEIFERS.

Poor to medium	$5.00@5.75
Medium to good	5.75@6.60
Good to choice	6.60@7.25
Choice to prime heavy	7.25@8.00
Good to prime fed yearlings	7.50@8.25
Prime to fancy yearlings	8.25@9.00

BULLS.

Canner and poor light	$4.75@5.50
Light to medium bolognas	5.60@5.90
Good to ch. heavy bolognas	6.00@6.25
Plain to good beef	6.25@6.75
Choice to prime beef	7.00@7.75

CALVES.

Inferior to fair heavy	$ 4.50@ 5.50
Fair to good heavy	5.50@ 6.00
Good to choice heavy	6.00@ 7.00
Good to ch. stock calves	7.25@ 8.25
Medium to ch. medium wts.	6.50@ 8.00
Fair to good vealers	10.50@11.00
Good to prime vealers	11.00@11.50

A good start was had in this week's stock and feeding cattle trade, but country demand failed to measure up to the supply appearing subsequently and the market is closing with the Monday strength rather more than lost, many sale showing 10@15c declines from high spots touched in the trade on country account last week, steers fleshy enough to get killer competition holding up well, rather by reason of that demand than through feeders' call for such grades, country buyers con- tinuing to show strong favor for year- lings and stocker sorts of good class. Demand has come chiefly from nearby states, Indiana, Ohio, Illinois and Mich- igan taking the bulk of the supply, with a right generous call from Ken- tucky distillery feeders, chiefly for 800 to 1,000-pounds steers. Quotations:

Best selected, 950 to 1150 lbs.	$7.25@7.50
Best selected, 650 to 800 lbs.	7.15@7.50
Good to ch., 600 to 1000 lbs.	6.65@7.10
Fair to good, 600 to 800 lbs.	6.15@6.65
Com. to fair, 500 to 700 lbs.	5.50@6.15
Inferior to com., 500 to 700 lbs	5.00@5.50
Good to choice stock heifers	5.75@6.35
Poor to good stock heifers	5.00@5.75
Good to choice stock cows	5.10@5.40
Poor to good stock cows	4.60@5.10
Good to choice stock calves	7.00@8.00

Hog trade is showing remarkable stability. Receipts this week at Chi- cago will make the largest total for any week within a period of about four years, close to 220,000 head having been received during the six-day period, yet prices at the close Friday, though 2½c lower on the extreme top, average 5c higher than a week ago. Within the last two weeks the eleven leading mar- kets have received 1,300,000 hogs, about one-third of the grand total being cred- ited to Chicago, yet prices are 8c higher than two weeks ago. One of the big factors in the stability of the market is the fact that hogs are cutting up profit- ably. Even by the hedging process there is good money in handling them. It is argued that provisions are out of line with hogs, but a readjustment may be effected by marking hog quotations up. Quality is running good and the prime range is the narrowest of the year, few selling on the Friday market below $7.60, the bulk at $7.65@7.80 and the extreme top being $7.87. Pigs have had a good advance and are selling largely at $7.35@7.50. At the present rate of marketing the small decrease shown in the year's receipts at eleven leading markets will be wiped out by the year's end. For the year to date the eleven markets have received 23,- 617,000, or 77,000 less than like period last year. Chicago supply has increased nearly 240,000 for the year to date. A Kansas City hog man here this week in speaking of the probable winter hog supply said: "The winter supply every- where in Missouri river territory will be light and weight deficient. Cholera is still raging in Kansas and that state will have a meager hog crop to market. Her feeders are using corn costing 70c per bushel and upward and with that handicap to contend with the stuff will merely be fed until it can pass muster at the market. Omaha territory has also been ravaged by disease, but corn is more plentiful in Nebraska and Oma- ha will be getting hogs late in the win- ter when Kansas City will behave. Last week Kansas City received sick hogs from Missouri and Kansas stations 500 miles apart, indicating the extent of the infected area in Kansas City area."

Friday's closing hog quotations on the Chicago market follow:

Bulk of sales	$7.65@7.80
Mixed, 215 to 250 lbs.	7.60@7.70
Mixed, 170 to 200 lbs.	7.55@7.70
Medium weights	7.70@7.80
Light butchers	7.65@7.75
Heavy butchers	7.80@7.72
Light shippers	7.60@7.70
Heavy shippers	7.80@7.72
Heavy packing	7.65@7.80
Rough heavy packing	7.50@7.65
Throwout packing sows	7.10@7.50
Fair to choice light	7.50@7.70
Light-light, 135 to 155 lbs.	7.40@7.55
Pigs, good to fancy	6.85@7.50
Pigs, inferior to fair	6.00@6.75
Boars, inferior to fair	2.00@3.50
Stags, subject to dockage	7.90@8.25
Government throwouts	4.00@5.50

Chicago has received about 155,000 sheep and lambs this week, or 20,000 more than the week previous and 15,000 more than a year ago, supply figures that look somewhat bearish, but a glance at receipts at other markets, both east and west, reveals nothing but light to moderate runs and helps ex- plain the healthy condition of the trade. Failure of Buffalo and other eastern markets to attract generous runs by the good level of prices that has pre- vailed this week is taken as a strong indication of scarcity in territory east of Chicago and light runs at Missouri river points likewise reveals no big surplus elsewhere, as "river" markets have been on a parity with Chicago all week. The fine feeding weather which has prevailed throughout the corn belt thus far this winter has enabled feeders to avoid glutting the market at any time, and though a lot of half-fat stuff has been sent to the shambles it has only come in on the bulges, much of it out of feeders' hands who saw a profit available and grabbed it in preference to holding until a probable storm forced them to liquidate their holdings. Big inroads have been made on supplies in Wisconsin and Iowa especially, and the

WADE'S GREAT REDUCTION SALE OF SHORT-HORNS

WILL BE HELD IN SALE PAVILION IN

COLUMBUS, NEBRASKA, TUESDAY, DECEMBER 30, 1913

THE sale offering will consist of practically the entire herd of choice Short-horns. They have been bred from the best of foundation material and represent the highest type of real UTILITY SHORT-HORNS. Some of these cattle are pure Scotch, others of the choice American families. Not a one listed but that is of known value or of rare promise. Herd-heading bulls and a select lot of producing cows and choice heifers make up the offering. There will be about thirty head. Good hotels and train service at Columbus. You will be made comfortable. Spend the day with us. Col. Z. S. Branson, auct. Mention The Homestead and apply for the catalog. Address

O. E. WADE - - - RISING CITY, NEBRASKA.

ALL BREEDS-----IMMUNE BOARS AND GILTS-----ALL BREEDS

WE handle only the best of the respective breeds and will sell you the best sort of stock at strictly farm- ers' prices. Some extra choice boars; also bred sows of all breeds. Some registered Jersey cows and a bull. Also Indian Runner ducks. Write us at once for prices. Mention The Homestead. Address
NORFOLK BREEDERS' CO-OPERATIVE ASSOCIATION - NORFOLK, NEBRASKA.

TOO LATE TO CLASSIFY.

POLLED DURHAM BULLS

WE have a number of big, growthy, good-boned Scotch and Scotch-topped yearling bulls of the Sweet Briar, Orange Blossom and Mysie families. They are reds and roans and sired by White Gauntlet, a 2,200 lb. Scotch grand- son of the noted Golden Gauntlet. Also a few cows and heifers for sale. Write for prices, mentioning The Iowa Homestead. Address
M. YOAKAM & SON, WEBSTER, KEOKUK COUNTY, IOWA.
On Marion-Ottumwa branch of Milwaukee and Montezuma-Muscatine branch of the Rock Island.

GOODENOUGH HAMPSHIRE BOARS

I AM sold out of boars and now offer a grand lot of spring gilts sired by Shelby Lad (first prize state fair winner), Dudie (another state fair winner) and Perfectum. They are bred to Dudie and other prize- winning boars. All have had the double treatment. I am selling the choice at $50 each. Write for cata- log and description, mentioning The Homestead. Address
A. L. GOODENOUGH - - - MORRISON, ILLINOIS.

CHOICE POLAND CHINA BOARS

15 DAYS' BIG BARGAINS. I have a few good, smooth, big-boned boars left. Sired by mammoth herd boars, Big Standard and Giant Lad, and $20 to $25 gets them. Were all through cholera early in the fall and are all thrifty. Also 25 head of good gilts. Write at once, mentioning The Homestead.
WM. H. NOLIN - - - MONROE, IOWA

I SHIP CHESTER WHITES C. O. D.

ON account of the dry season and high priced feed in this section, I will offer for 20 days, ending Jan. 10th, choice, growthy, spring boars, ready for service, at very low prices. Crating and pedigrees free
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$25.00 EACH WHILE THEY LAST

BIG, smooth fellows 50 to 53 inches long with heavy bone. Exceptional quality. Sired by E. Pluribus Unum, a La- Follette-Malcom Model boar and Crimson Rambler. Dams by Crimson Wonder Again, Ambition, Crimson Rambler, etc. March farrow and ready for service. Order now. Address
J. E. WELLER, FAUCETT, MISSOURI

DUROC JERSEY BOARS

I HAVE a fine lot of spring boars sired by Royal Col., Victor Col., Golden Prince, Crim- son I Am and Smith's Crimson Wonder that I will sell at right prices. The dams are largely sired by champions. I have a number of pros- pects for herd boars. Write me mentioning The Homestead.
J. E. SMITH - - - - VICTOR, IOWA

E. Z. Russell, Benson, Neb.

LIVE STOCK AUCTIONEER

SALES made in any part of the country. Thor- oughly posted in the various breeds. Write me for dates at once.

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

Duroc Jersey Hogs

YEARLINGS and spring boars for sale at a price that will move them; also a few sows and gilts that are bred. Have all been vaccinated. Write your wants to John H. Berry & Sons, R. 6, Iowa City, Ia.

Duroc Jersey Boar

A YEARLING Duroc Jersey boar for sale sired by the grand champion Chief's Col. 22875A. A splendid animal, cholera immune. For price and further particulars address, mentioning Homestead.

H. E. HUSTON,
IOWA FALLS, - - - IOWA

YEARLING DUROC JERSEY BOARS

I HAVE two October yearlings by R. J.'s Chief and out of a Crimson Wonder Again dam. They weigh 325 to 350 pounds; have extra length, good bone, strongly arched backs, good heads and ears and are cholera immune. Address
J. C. Porter, Ogden, Boone County, Iowa.

20 BIG-TYPE POLAND CHINA BOARS

40 SPRING and fall gilts bred, sired by Ring's Sensation, Pleasant View Hadley and Sensa- tion Keep On, out of 600 and 700 pound dams. Farmers' prices. All immune. Address
RING BROS., NEWTON, IOWA.

TWO SHORT-HORN BULLS

I HAVE two extra good Scotch-topped yearling bulls by King Banff 3d, that I am pricing very reasonable. If you need a bull write or visit me at once. I will hold a sale of Scotch Short-horns on June 9, 1914. **M. W. MYERS, BEAMAN, IA.**

6 Good Short-horn Bulls For Sale

I HAVE a good Lancaster bull sired by Western Star. Also a good Duchess of Gloster sired by Victor Sultan, and a Marsh Violet; from 12 to 18 mos.
PERRY O. BROWN, LAMONI, IOWA.

THOMPSON FARM

FOR choice Duroc Jersey boars, immuned by double treatment, Oct. 7th and 8th. Price to move quickly. Call or write, mentioning Homestead.
WILL THOMPSON, R. 2, JESUP, IOWA

DUROC JERSEY BRED SOWS. Have 20 Mar. and Apr. gilts, 5 fall yearling sows 5 aged sows bred to a son of Col. J. by Proud Col. and out of a dam by Wonder Model. These sows and gilts very reasonable. They will farrow in March and April. A few summer gilts for sale sired by Prize Wonder.
FRANK N. CROW - OXFORD, IOWA.

50 Chester White Bred Sows 50

SOME gilts, a few spring boars, and one of my herd boars. Best lot I ever raised. Superior breeding. **S. J. PHILSON, R. 6, HARLAN, IA.**

Poland China Bred Sows $20 to $30
Good ones. **W. B. Cooper, Milford, Nebraska**

trade believes will, if judiciously marketed, find a good market.

Choice lambs of handy weights have been consistently good sellers throughout this week. The spread in prices has widened out materially, due to the presence of so much half-fat stuff and the scarcity of and strong demand for choice goods suitable for Christmas trade requirements. Prices are anywhere from 15 to 40c higher than a week ago, prime handy lambs showing the most and half-fat classes, matured muttons and heavy yearlings the least gain. Prime lambs at $8.25 at weekend are as high as any lambs sold on this market since last July. Closing quotations:

Lambs, good to prime	$7.85@8.25
Lambs, fair to good	7.40@7.85
Lambs, common to fair	6.85@7.85
Lambs, culls & coarse bucks	5.75@6.75
Lambs, fair to best feeders	6.35@7.00
Yearlings, goodto ch. handy	6.50@7.00
Yearlings, fair to ch. heavy	5.75@6.60
Wethers, good to prime	5.40@5.75
Wethers, fair to good	5.00@5.40
Wethers, feeders	4.25@4.85
Ewes, good to choice heavy	4.50@4.75
Ewes, good to choice handy	4.60@5.00

Encouraging the Beef Industry.

By J. L. Tormey.

THE press, both agricultural and otherwise, has had much to say the past few years concerning what they are pleased to call "a meat famine." Experiment stations throughout the corn belt have done much in the line of missionary work encouraging farmers to go into the production of beef cattle. Packers have met and suggested that they would give $500,000 as a sort of nest egg to be used in disseminating literature that might be useful in getting farmers back into the production of beef, so that the enormous coolers and plants which they have erected in the past years to accommodate a surplus of beef might again run to the limits of their capacity.

Whether all these agents have served to stimulate men to engage in the industry or not is still a question, but as a general thing the man who ventures into the game of playing the beef cattle market has as much vision as some of the enlightening agents concerning the cattle trade. Knowledge of the business and the hazards of the game do not seem to be so productive of profits and losses in the business as does the condition of the market at time of buying and selling; and at present in localities of the state of Wisconsin, and in other states, as well, the radical fluctuations and the unstability of the Chicago market are doing more to discourage men than could be offset by all the teachings of the press, packers and station experts.

In the blue grass section of southwestern Wisconsin, especially in the cattle sections of Iowa and Grant counties cattle men have never in their lives been bluer concerning the outlook of their financial conditions. Men of years of experience to whom the college of agriculture points as types of successful business men, and to whom prosperity has come because of their wisdom and foresight, have never, perhaps, been confronted by such discouraging conditions as those they face at the present time. A year ago their grass cattle sold well, and feeders and grazing cattle that had been put into pastures and feed lots in the spring and fall previous made satisfactory returns to the cattle men. When last spring came they had every reason to believe, relying as they do for their information upon press reports and the knowledge of commission men, that there would be a continued so-called "shortage of cattle" and that they were safe in filling pastures with high-priced feeders. At any rate if feeders were to be obtained they could only be obtained at a fancy figure.

Some of our agricultural organs offer balm to farmers who have pastures and make the assertion that cost can be grazed down during a grazing period of six months. A man is entitled to capital invested in land and to taxes, and if those two items are included it is practically impossible for anyone to graze down cost of gains on anything but the cheapest land. In fact, the ordinary gain put upon a steer through the summer will not more than pay a fair rate of interest upon the land he grazes upon, and if there comes any break in price such as occurred this fall, there is sometimes nothing but loss left to the farmer. The appalling part of the affair is that most of the cattle must be bought on time, so that in many instances, the man loses not only the use of his land for the year, the price of the taxes, the interest on the borrowed capital, the interest on an increased account which he perhaps must start for the new year, and oftentimes the cattle bring less money in the fall than was paid for them in the spring.

We know of one man in Grant county who is said to have $45,000 tied up in cattle, and some of these cattle he has carried over from last fall. They were fed last winter, and grazed this summer. From the appearance of conditions a year ago he had every reason to believe his cattle would bring 9 cents the first of May, but a break about that time brought the price down to about $8.25 per hundredweight. In hopes of recovering he kept them until this fall, but the market for them is now in even worse shape. Another operator in Iowa county who has been intimately and successfully associated with the cattle trade for years and is recognized as one of the most successful men in the ame in the state is meeting with equally discouraging circumstances. It is stated that there are farms in Iowa county that are in danger of being lost to the owners, who were led to believe that it would be a profitable venture for them to dip into the beef game and invest in high-priced feeders; and those men have been familiar with conditions for years, and some of them have been most successful operators. They simply forget to reckon with the unstable market whose fluctuations experts seem unable to predict.

How nice it would be for all of us were we able to forecast as well as to follow past events! But the season just past may serve as a lesson to many operators and others closely associated with market conditions, and a study of causes may explain in part the present conditions of the market. Demand and supply coupled with weakness of human nature go a long way in accounting for many of the disastrous changes which have come to the market the past year. Last year corn was a record-breaking crop, and prices for it ruled so low that many corn raisers felt they could better afford to keep the corn, pay high prices for feeders and feed the corn, than to sell it for the prices offered on the market. By going into the markets and bidding high dollars for feeders, they also forced the price of good cattle to an abnormally high figure, which was fine for the man who had cattle to sell, but was not good for the future of cattle prices. In other words the market was given an unhealthy stimulus or boom.

However, it seems to be the illogical time for men to become discouraged. At present prices feeding cattle are a safer proposition than they were a year ago, and it seems that the logical thing for men to do is to buy feeders at present low figures and look forward to a light feeding year to come next year with restored good prices. The break in the market has put fear into many a good operator, and from the number of feeding cattle going to the country, the coming year promises better for the feeder who sticks by the game.

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FRANK L. STREAM, Creston, Iowa. Imported and home bred Percheron, Belgian and Shire stallions and mares. All ages at reasonable prices.

300 **SHETLAND and Welsh ponies** for sale, all ages, including prize-winners. Write us your wants. **T. S. Simpson & Sons,** Aurora, Ill

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40 Shires and Percherons

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And We Make the Price to Suit You

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NEW FALL IMPORTATIONS ARRIVED SEPTEMBER 6th, OCTOBER 8th AND NOVEMBER 24th

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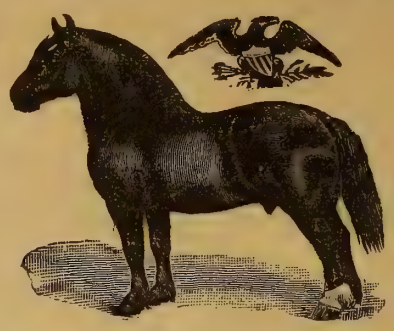

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I HAVE for sale ten Percheron stallions, ranging in age from weanlings to eight years old, all my own raising and ton horses. I have them priced to sell and will be glad to show them at any time or answer any questions promptly. Yours for business and a square deal,
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HEREFORD CATTLE
20 BULLS 20 20 FEMALES 20

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ABERDEEN ANGUS
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WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
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I am offering **20 choice serviceable bulls,** of the very best families, sired by my noted Blackbird bull, **Blackbird Barney** and **Elfin of Homedale.** Want to move these and will price them right. Write me at once or come and see them. Address
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FIVE bulls about a year old for sale at reasonable prices. We invite inspection on Springdale Stock Farm adjoining this city.
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FIFTEEN heifers and 15 bulls about 1 year old. Farm adjoining town of Mason City, Nebraska, on B. & M. R. R. to Black Hills. Address
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BULLS for sale of best breeding and merit—Blackbirds, Ericas and Prides—the big black business kind, the kind you want, and the quality and price will please you. Come and see.
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A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles Plattsmouth, Neb.

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TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

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MILLER'S 1913 SHORT-HORN IMPORTATION ARRIVED

I JUST recently arrived home from Canada with a **choice importation of young Scotch bulls and twenty head of as good heifers as was ever brought to this country.** Among these bulls is a royally-bred **Missie,** a **Nonpareil,** a **Clementina,** a **Wedding Gift** and a **Countess** that are good enough to head any herd in America. Among richly-bred heifers will be found **Mina, Village Girl, Buttercup, Rachel, Beauty, Louisa** and **Red Rose** tribes and these are as good as you ever looked at. **I am offering these at private treaty** and if you want something real choice it behooves you to come and see these at once. Address **R. O. MILLER, LUCAS, IOWA.**

12—HIGH-CLASS SHORT-HORN BULLS—12

WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods,** and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address
HOWELL REES & SONS, - - - PILGER, NEB.

15 VERY SELECT SHORT-HORN BULLS--15

I AM offering **15 head of the best young bulls ever seen on one farm. Twelve of these are straight Scotch,** of the **Orange Blossom, Princess Royal, Dainty Dame, Miss Ramsden, Lancaster Rosebud, Lady Fragrant** and **Lady of the Boyne** tribes. Among these is the great 2 year-old bull, **Scottish Rex,** a Campbell Rosebud, and one of the best herd bull propositions offered in the country today. Write or come and see me at once. Address
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THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead,
GEORGE D. HARRAH, NEWTON, IOWA

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TEN extra good yearling bulls sired by Narcissus King 239586. Twenty-five cows and heifers mostly daughters of Royal Fame 197980 and bred to Narcissus King. Ninety-five head in herd, all reds and a choice lot. Farmers prices, single or car load. Mention The Homestead. R. J. Cox, Grinnell, Iowa.

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TWO Scotch yearlings, one a Marr Flora, the other a Brampton Leaf; two nine-months-old bulls. All sired by King Banff 3d. Also a good yearling by Scottish Victor. All good. Priced right.
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A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best Write us your wants, mentioning The Homestead
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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
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A BIG lot of choice boars of early spring farrow. Some select enough for the best herds, others for the progressive farmers. Mention The Homestead and address
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HAMPSHIRES all ages for sale, the heavy boned, cholera immune kind, all bred from prize-winning boars at Iowa State Fairs. Address
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40 IMMUNE HAMPSHIRE BOARS 40

I AM offering **40 fall** and **spring boars** for sale. All **cholera immune,** sired by **Peterson's Choice** and **Cherokee Lad,** both 1st prize winners at Sioux City. Prices reasonable. Mention Homestead when writing. **F. O. Peterson, Galva, Ia.**

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WRITE me at once if you are on the market for a good Hampshire boar or a few sows. I have them and my prices are right. Address
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THE sensational winning herd of the year. Won 42 prizes at the three leading state fairs. I am offering **40 Choice Boars** for sale sired by big prize winning boars and out of my best sows. Can sell you a boar of any age. Write me at once and mention the Homestead. Roy E. Fisher, Winside, Neb.

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VALLEY VIEW Hampshires, either sex. Satisfied customers. Spring boars ready for service, 1 2-yr old boar, sale or trade. Fred Wheeler, St. Charles, Ia.

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Excellent Hampshire Boars

A FINE lot of spring and fall boars, as well bred as the breed affords, well marked and guaranteed cholera immune by me. If in search of a real choice boar, and at a price you can afford, write me. I can supply you. Mention Homestead.
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R. L. BOLLMAN, COAL VALLEY, ILLINOIS
Breeder and Showman of Prize-Winning Hampshire Swine

WON 500 prizes at leading state fairs and International Expositions the past five years, 250 head on hand 100 spring pigs Stock all ages for sale I breed the kind that win, I can fill your order for either show or breeding stock. Write today.
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HERD headed by **Joe 7743** (first junior yearling Chicago, 1912) **Corrector 10491** (junior and reserve champion Chicago, 1912) and **Signet 8185.** A few bred sows for sale. Bred sow sale February 4, 1914. Address
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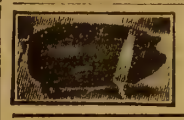

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WE have a few extra good boars and some very fine bred sows and 130 fall pigs sired by Cherokee Lad, Palo Boy and Ikey Boy, that we are pricing worth the money. We can supply fall pigs in pairs or trios, no akin. If you want good ones, we have them. Will sell a few February, 1913, Red Polled bulls and heifers. Prices right. Can ship by Adams or U. S. Express. Mike Sharp & Sons, Coal Valley, Ill.

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I HAVE 6 fall yearling boars and 6 good spring pigs sired by Shelby Lad (1st prize state fair winner) Dudie (another state fair winner) and Perfection. All have had double treatment and I am selling them from $25 to $35 each. Send me your order, mentioning The Homestead. Address
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I HAVE a few extra good spring boars left, including get of Messenger Boy, Dudie, etc. I am also offering for sale my herd boar, Maurer King 7299, junior champion, at Ohio, Indiana and Kentucky state fairs of 1911. A sure breeder and priced right. Address
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Kent's Famous Iowa Herd CHESTER WHITES

WON nearly 400 ribbons in 1912 and 1913. Undefeated this year on aged herd owned by me, and aged herd bred by me, and aged sow class winning first champion and grand champion everywhere shown. Undefeated on get of sire also, except once. With over 400 head to select from of the above breeding I am prepared to fill your orders for anything you want from a state fair prize-winning aged boar down to pigs at weaning time at prices made to sell. It will pay you to write me for prices and the way I will ship those hogs before paying for them, or come and see them. Mention The Homestead.
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20 HEAD of fall and spring boars sired by Chief Select 21105 and Hiawatha 22147. Chief bred boars right in type and size of that kind. Among these are specimens right for pure bred service, and others that will sire the high-selling prize-winning barrows. They will please. If you want Chesters that are right and can be bought right get in right by making selection from this herd. Bred sow sale Jan. 28, 1914.
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I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
L. C. REESE - - - - - - - - - PRESCOTT, IOWA.

TAKE NOTICE! 35 CHESTER WHITE GILTS FOR SALE

BRED to farrow in March. Bred to such hogs as Lewis E., Col. Evans, Nagle's Kind and Right You Are. Do not fail to place an order for from one to five of these bred sows. Also 35 fall pigs for sale. Buy a trio of these pigs. No akin. Address, mentioning The Iowa Homestead,
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GOOD ONES. March and April pigs sired by **Good Goods 21423** and **White Wonder 22581. Bargain Prices** for 30 days. Shire stallion and mares for sale of the best breeding. Aberdeen Angus cattle, either sex, for sale.
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30 CHOICE FALL BOARS

SIRED by Gold Mine, Prosperity and High Style. 40 choice spring boars sired by High Style, International King, International Boy, Combination III, Village Boy and Combination's Favorite.
BRED SOW SALE, FEBRUARY 27, 1914
Please paste this in your hat. Anything in the boar line sent on approval. Address
J. L. BARBER - - - - - HARLAN, IOWA

WE SHIP C. O. D. AND PAY EXPRESS CHARGES

BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. All sows reserved for bred-sow sale February 10, 1914. Write
B. M. BOYER & SONS - - - - FARMINGTON, IOWA

CENTRAL IOWA HERD OF CHESTER WHITES

FOR SALE 35 spring boars weighing from 225 to 250 pounds in breeding condition. If you are looking for quality, stretch and bone come and see them or write me. Will ship anything on approval.
G. O. SATRE - - - - JEWELL, IOWA

15 CHESTER WHITE BOARS

FOR SALE of March and April farrow, also one choice yearling bred by B. M. Boyer & Sons. Good length, heavy-boned type, weight 150 to 200 lbs. Guaranteed breeders at farmers' prices. Satisfaction guaranteed. Chas. Boyd, Williamsburg, Iowa.

MARSHALL SWAYNE, Marion, Iowa, has a few good Chester Whites for sale. Both sexes. Descendants of the well-known herd of V. H. Lathrop

CHESTER WHITE BOARS—Reduced price to $18 and $20. Satisfaction guaranteed. Recorded free. Address E. J. Trumbaur, St. Charles, Iowa.

Chester White Gilts Bred to a very rangy, heavy-boned boar for spring farrow, at $25 to $30, weight 180 to 225 pounds each. Address **Will Michael, Selma, Iowa.**

CHESTER WHITE BOARS

I HAVE 20 good lengthy spring boars. Weight around 200 pounds. Good, big, growthy fellows with good bone and out of large litters. Choice at $25.
Harry Hurless, Ogden, Boone County, Iowa.

G. H. TUTT, Marathon, Iowa, breeder of Chester White hogs. Herd immuned and in good health. Big, good, and well bred spring boars for sale. Prices reasonable.

O. I. C. SPRING BOARS AND GILTS Fall pigs, both sexes.
W. Doolittle, Woodland, Mo.

IMMUNE O. I. C.'s Boars and sows, priced right if taken soon. Address **GEO. W. DE BAR, AURORA, IOWA.**

CHESTER WHITE SWINE.

C. C. EVANS

LIVE STOCK AUCTIONEER and BREEDER of CHESTER WHITE SWINE

I HAVE a fine lot of March and April boars and glits sired by Combination II. that I will sell at right prices. They are the big, growthy kind. Write me mentioning The Homestead.
C. C. EVANS - NORTH ENGLISH, IOWA

Murray's Extra Choice IMMUNE O. I. C.'S

STILL have a few choice fall yearling boars; also some spring and early summer boars. An extra choice lot of bred sows and gilts. Daughters of U. S. and Fairmont Chief bred to two of the best herd boars I could possibly find. Also some fall pigs, either sex for sale. Everything that I ship is first class. You will do well to write immediately.
CHAS. H. MURRAY - - FRIEND, NEB.

Chester White Herd Boar

Wildwood Prince 16087

A TWO-YEAR-OLD son of Onward, dam Lady White by Enterprise 2d, a hog of extra length, heavy bone, smoothness and a good breeder. Can use him no longer. Also Chester White spring boars for sale. Address
W. W. VAUGHN & SONS, MARION, IOWA

100 HEAD OF O. I. C.

BOARS AND GILTS FOR SALE--GOOD ONES

DESCENDANTS of grand champions. Some very fancy yearling gilts, bred or open. Some cracking good 12 weeks pigs at $10. All priced right for quick delivery. Also 2,000 bushels of **House Dried Seed Corn,** guaranteed 98% germination. Write me if interested. **H. Z. O'HAIR, Prop., Grand Prairie Seed Farm, Bushton, Coles Co., Ill.**

Chester White Boars For Sale

I HAVE one splendid yearling boar for sale, six fall boars and twenty spring boars. Write me for prices and description at once. Address
S. J. PHILSON - HARLAN, IOWA

FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address H. MEYER, STAPLEHURST, NEBRASKA

CROSIER'S O. I. C. HOGS

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

I SHIP C. O. D.

CHOICE big-type Chester Whites, either sex, pairs no akin, farmers' prices, crating and pedigree free.
GLENN F. RIDER, FARMINGTON, IOWA

CHESTER WHITE BOARS

FROM one of the oldest established herds in the country, well-grown and strong and sired by noted boars. Some by All O. K., Fancy Goods and a few others. Mention The Homestead and address
Vanderslice Bros., Cheney, Nebraska

CHOICE CHESTER WHITE MALES

FOR SALE, weighing from 200 to 250 pounds just in stock condition. Sired by Michigan Chief, an 800-lb. boar; extra good bone. Price $30 if taken soon.
J. T. SCARFF - - - - SALEM, IOWA

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

IMMUNE CHESTER WHITE BOARS

I HAVE a few extra good ones, weighing 175 to 200 pounds. Will sell cheap if taken soon. Write
J. L. STITTSWORTH, KNOXVILLE, IOWA

Slepickas' Immune O.I.C.'s

BIG-BONED, stretchy boars of the very best breeding, all immune are for sale at farmers' prices. Sons of Wilber O. K. and Grand View Choice offered. Nothing better. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

DUNBAR'S CHESTER WHITES

16 BEST boars I ever raised, March and April farrow. Cholera immuned. Prices reasonable. Also a few choice gilts for sale. Write me at once.
W. H. DUNBAR - JEFFERSON, IOWA

Immune O. I. C. Bred Sows

AM offering the grandest lot of gilts ever raised on our farm. They are mostly bred to the first prize boar, White Hope, also Combination's Last. If you wish good hogs at right prices, write me.
AMOS TURNER - WILBER, NEBRASRA

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

O. I. C. BOARS

OF the big, smooth type for sale. Address
ALLEN BROS. - RUSSELL, IOWA.

CHESTER WHITE SPECIALS. Some extra choice boars, well bred, well grown at $22.50 to $50.00. Two excellent fall boars at this price. Address Harry J. Anderson, Beaver Crossing, Neb.

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Sciota, Ill.**

ONE yearling and several spring Chester W. boars with plenty of size, length and bone; of best breeding. Prices low. F. E. Penningroth, Wellman, Ia.

DUROC JERSEY SWINE.

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.
J. C. DROZ - - - FAIRFIELD, IOWA

SOWS BRED TO BIG WONDER

WE are offering **10 choice fall sows** and spring gilts bred to our Iowa State Fair **grand champion boar, BIG WONDER,** regarded as the greatest boar now living. He **weighed 750 lbs. as a yearling,** and those who have seen him recently pronounce him the greatest Duroc Jersey boar now doing service in any herd. Daughters of Col. Gano, King the Col. and Morton's Top Col. are now offered for sale bred to him. Write us at once for prices on these sows and mention The Iowa Homestead. Address
ECONOMY STOCK FARM, MEL KRASCHEL, Manager, SHENANDOAH, IOWA.

Sunnyside Duroc Jersey Boars $25 to $40

IMMUNE boars of spring farrow, safe to go into any herd. I have 35 of them that are big, husky, strong boned fellows, and from the most popular lines of breeding. First orders get first choice.
M. A. M'WILLIAMS - - - - R. F. D. 1, WALL LAKE, IOWA

IMMUNE BOARS---IMMUNE BOARS---IMMUNE BOARS

DAVIDSON'S CRIMSON WONDER BOARS ARE NOW IMMUNE. Fall boars $30 to $50, sired by Golden Model Jr. Spring boars $25 to $100 by Golden Model Jr. and Crimson Wonder Am I. Write
U. G. DAVIDSON - - - - - - ALGONA, IOWA.

28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's I Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.
H. O. HOUGLAND, - - STORY CITY, IOWA

A FEW BOARS, GILTS BRED OR OPEN, AND FALL PIGS

A FEW choice Duroc Jersey boars, April, May and June farrow at $20 and $25. Extra choice gilts open or bred to the great Royal Wonder. Also a nice lot of September pigs sired by Royal Wonder at $10 and $12.50 each. This is one of the greatest boars of the breed and a great opportunity to start with the best. Address, mentioning The Homestead,
D. S. COCHRAN, R. F. D. 7, LINCOLN, NEB

COL. SENSATION 98261

THE sensational big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you If you come to the farm. Address
J. B. ASHBY - - - - AUDUBON, IOWA

60 IMMUNE DUROC JERSEY BOARS 60

WE are offering for sale sixty head of choice fall and spring boars, mostly sired by a son of Carl's Col. and out of best sows in northwest Iowa. Everything **vaccinated** and **cholera immune,** and ready to ship. We won 1st prize on pig at Sioux City fair. Prices **$35 to $50, sent on approval.**
C. R. & R. W. STEELE - - - - - - IRETON, IOWA

MODEROW'S EXTRA SELECT IMMUNE DUROCS

NEAR fifty boars for sale. Mostly spring boars, but few of fall farrow. They are sired by the $800 B. & G.'s Wonder, also the $600 Chief Select 2d, the great and only Blue Ribbon Model, and a few other noted sires. They are from one of the greatest herds of sows in the country. These grand young boars for sale right. Mention The Homestead and address
WM. MODEROW, BEEMER, NEBRASKA.

DUROC JERSEY BOARS AND GILTS

I HAVE a choice lot of large, heavy-boned boars and gilts sired by Audubon Col. (by C. & E.'s Prince of Cols.) and out of sows by Crimson I Am, Long Chief D., Attraction and R. H.'s Prince. I will breed gilts to Lucy Wonder's Col. (a half-brother to the grand champion boar Disturber). Come and see me, or write mentioning The Homestead.
CHAS. W. NOBIS, HANOVER, ILLINOIS

MY ANNUAL SALE OF

DUROC JERSEY BRED SOWS

WILL BE HELD

JANUARY 21, 1914

40 GRANDLY-BRED SOWS and bred to good boars at your prices. Write for catalog, mentioning The Homestead. Address
C. A. MOULTON, MORRISON, ILLINOIS.

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & L., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

CLOSING OUT DUROC BOARS

A FEW very choice Duroc boars of spring farrow for sale at right prices. Best of breeding, and only our best saved for breeding. Address
F. E. MERRICK, OSCEOLA, NEBRASKA.

IMMUNE DUROC BOARS

BEST blood lines, extra big and smooth. Farmers' prices. J. E. Forke & Son, Malcolm, Nebraska.

Special Prices on Durocs Some very choice fall and spring boars to close out at special prices. Well bred and well grown. Earl Roberts, Ulysses, Neb.

MULE-FOOTED SWINE.

MULE-FOOT HOGS

MORE premiums won in 1912 and 1913 than any herd in the U. S. Stock of all kinds for sale.
Zene G. Hadley, Box A, Wilmington, Ohio.

Mule - Foot Hogs

Oldest breeder in the state. Pedigreed stock for sale
Samuel Johns, Sec. A., Wilmington, Ohio,

BIG, growthy Mulefoot hogs from my state fair prize winning herd. Stock of all ages for sale. Prices low. Chas. C. Thompson, Letts, Indiana.

RIVERSIDE FARM MULE-FOOT HOGS. Big Chief heads herd. Pedigree pigs for sale. Address **J. W. Cox & Son, Arapahoe, Neb.**

TAMWORTH SWINE.

MAPLE GROVE HERD OF TAMWORTH SWINE

SPRING boars, weight from 150 to 200 pounds, at $20 to $25. **F. J. McKeever, Ryan, Iowa.**

FRANK'S DUROC JERSEYS

IMMUNE BOARS

MY herd have been given the double treatment and are absolutely free from disease and proof against cholera. Spring boars for sale. Breeding the best in the land. Quality right and prices to suit.
SOL FRANK - SIOUX CITY, IOWA

50 Immune 50

DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address
MADISON SPENCER - AUDUBON, IOWA.

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address
A. F. HAGER - - - - AVOCA, IOWA

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Geiken, Cozad, Nebraska.

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address
J. W. Troy & Bros. - Rose Hill, Iowa

For Sale TWO GOOD DUROC JERSEY HERD BOARS of extra good breeding (one a seventh prize winner at Iowa State Fair). Six good fall pigs at farmers' prices. Address
HOWARD R. MOORE - DEXTER, IOWA.

EXTRA choice Duroc Jersey boars; vaccinated by the simultaneous method. Also well-bred Barred Plym. Rock cockerels. R. H. Quick, Piatt, Ill.

JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd. Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC Jerseys—Big, growthy March boars, cholera immune. Pedigrees furnished, prices right. Satis. guar. A. H. Floyd & Son, R.1, Faribault, Minn

Duroc Jersey Swine.

DUROC JERSEY PIGS

I HAVE a fine lot of September and October pigs of both sexes that I will sell reasonable. They are of the best breeding and well grown. Don't forget my bred sow sale February 2, 1914. Address
HUGH M. FICKE, LONG GROVE, IA.

Boars and Rams

THE Iowa State College is offering for sale a choice lot of Duroc, Chester White, Poland China, Berkshire and Hampshire boars and gilts. Also a few Oxford, Shropshire ram lambs. At the Division of Agriculture, Iowa State College, Ames, Ia.

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Pride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Sittyton Duke the 6th for sale.
B. W. LITTLE, R. 7, JANESVILLE, WIS.

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.
E. CRABS - - - - ALEDO, ILLINOIS

S. E. EAKLE & SONS

PROPHETSTOWN, WHITESIDE COUNTY, ILLINOIS.

HAVE about 25 head of Duroc Jersey bred sows to sell at private sale. These are the right kind, well bred and are safe in pig to our great herd boars. We have a great lot of fall pigs for sale of both sexes and we will price either the fall pigs or bred sows very reasonable. They are bred right and have the bone and size. Boars of serviceable age all sold. Bred sow sale January 22, 1914. Write us mentioning The Iowa Homestead.

Merfeld's Duroc Boars

WE offer for sale fall boars by Merfeld's Wonder and Modoc, and spring boars by Merfeld's Wonder, Chief's Model II., Choice Advancer, Chief Select Jr., and Notcher Chief. The spring pigs are a great lot with size, heavy bone, length and smoothness. Would sell choice of two yearling herd boars, Choice Advancer or Dolly's Col. Write us for prices, mentioning The Homestead.
M. E. MERFELD & SONS, GREENE, IOWA

DUROC JERSEY GILTS

I HAVE a fine lot of big, growthy spring gilts sired by Joe's Col. (by Proud Col. dam by Model Wonder), and Wonder's Model that I will sell open or bred. They are being bred to Joe's, Col., a son of Golden Model II. and a son of Wonder's Model. Write for prices, mentioning The Homestead, to
JOHN KREBS - RIVERSIDE, IOWA.

100 Immune Duroc Boars

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address
F. C. CROCKER - FILLEY, NEB.

12 DUROC JERSEY BOARS 12

I AM offering some splendid boars for sale sired by **Belle's Choice Goods 102863,** and out of my best sows. Prices reasonable. Write me at once.
PERRY O. BROWN - LAMONI, IOWA

DUROC JERSEY BOARS FOR SALE

I HAVE 3 yearling boars, 8 fall yearling and 20 spring boars sired by Chief's Col., Prize Wonder and others, and out of sows sired by Royal Col., Prairie Commodore, Crimson Rambler, Col. Whitehall, etc., at reasonable prices. Write me.
Frank N. Crow - - - - - Oxford, Iowa

50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.
A. J. De Young - - - - Sheldon, Iowa

DUROC JERSEY BOARS

IMMUNED BY GOVERNMENT EXPERT

SPRING pigs, 200 pounds and over, by Jumbo Wonder (son of Crimson Wonder Again) and out of big, well-bred dams. Write me. Address
GEORGE T. WHITE, Dallas Center, Iowa.

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.
A. R. OLSON - - - WOODWARD, IA.

40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Superba Jr. 37219 and dams of equal merit. Write me your wants.
W. F. DRUMMY - - RYAN, IOWA

For Sale SIX DUROC JERSEY BOARS, three of them are extra good; four are sired by Nebraska Crimson and two by Sensation Wonder, Write Ed Freese, Nora Springs, Ia.

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

"QUALITY" in Duroc boars and gilts by Col. Kruger, Defender's Likeness, Model Chief I Am and Prince A.'s Col., first prize senior pig Int. 1912. Price $25 to $35. A. Nevins & Son, Modesto, Illinois

...NA BOARS
...50 Each

...hold... select from. Sired by my 1,000-lb. Smooth ...o a few choice fall pigs of either sex. Come or write for ...The Homestead,

ROLFE, POCAHONTAS COUNTY, IOWA.

...ERA IMMUNE BOARS 30
Sired by my great boar ... WNEE PRICE,

one of the largest and best big-type Poland ...oars in the state. Everything **VACCINATED AND IMMUNE.** Wr... for prices and description at once Mention The Homestead and address

W. E. ZIMMERMAN - - - NEOLA, IOWA

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address **J. A. BEAUMASTER, ELMA, IOWA**

20 BIG-TYPE POLAND CHINA BOARS

MAY and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1st at $15 each.

H. E. BURGUS - - - Route 6 - - - OSCEOLA, IOWA

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d and Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address

C. H. PORTER "Oakwood Farm Poland Chinas," EAGLE GROVE, IOWA

45 Poland China Fall and Spring Boars

I AM offering 15 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address **A. W. STEWART - - - HARLAN, IOWA**

25---IMMUNE POLAND CHINA BOARS---25

I AM offering 4 choice fall boars for sale, one of which is a high-class boar and was first prize boar at Crawford county fair. The other three are also good, stretchy boars. **Twenty choice spring boars** sired by **Golddust Wonder, Long Orange** and **Defender Again Price.** These are big-boned, stretchy fellows and $25 to $35 gets these. Everything **vaccinated and immune.** Write me at once and mention Iowa Homestead. **C. M. PEDERSON - - - - DUNLAP, IOWA**

Easy Feeding, Heavy-Boned, Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs. Choice at $25, and some less. Must sell as I am short on room. Excellent bred gilts at $30 to $35 per head, all sired by Ex.'s Wonder and Iowa's Product. Fall pigs at $12 and $15 at weaning time. Bred yearling sows at $35 to $40. Guaranteed safe delivery. Perfect health, no disease in neighborhood.

J. B. HEISEL - - - - GRINNELL, IOWA

Shropshires---Poland Chinas

I AM offering for sale 30 yearling and two-year-old Shropshire rams from ewes imported from England and Canada. Write me about them. I have big-type fall boars weighing from 300 pounds up, and spring pigs from 150 to 175 pounds at right prices. Fall boars are vaccinated. Mention The Homestead when writing for prices. Address

JOHN I. DRIPPS - SPRINGVILLE, IOWA

HALF PRICE THIS MONTH

TOO many Poland China boars. Prices cut to get rid of them. 150 to 300 pounds. Sired by Orange Boy (1,000 pounds). Perfect health. $20 to $35. Will ship on approval. Satisfaction guaranteed.

M. G. Arnold & Son, Strawberry Point, Ia.

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.

C. W. CREES - COON RAPIDS, IA.

Poland China Spring Boars

BY Again Chief Price 192035, 2d prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.

BLAKE & BLAKE, MAQUOKETA, IOWA

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address

Fitz & Adams, Plattsmouth, Nebraska.

Big Poland Chinas

MY herd boar, Big Hadley Jr.; some boars, 30 gilts, are and will be bred to Big Price 2d, a two year old; he measures 6 ft. length, 6 ft. girth, 12¼ inch bone. Write **H. LENZ, LANSING, IOWA.**

HEAVY-BONED Poland Chinas, both sexes, any age. Priced right. Also B. P. and W. Rocks James H. Duncan, Lone Oak Farm, Lineville, Ia

GOOD Poland China fall and spring boars sired by Bouncer 190715 (by Dorr's Expansion 152085) and Big D 192467. W. T. McLaughlin, Manson, Iowa.

GOOD LUCK HERD
POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address

L. S. Fisher & Son, R. 1, Edgewood Iowa.

FOR SALE

50 **BIG TYPE Poland China boars with quality,** sired by Big A Wonder, Big Joe 2nd and Smooth Wonder Again.

Smith Bros., Rt 2, box 76, Lawler, Iowa.

Fall Pigs of Giant Breeding

FALL pigs of the famous McCurdy's Giant strain of Poland Chinas for sale at $12.50 each. Sired by excellent boars and from good sows. Order at once and save delay. Address

WM. McCURDY - TOBIAS, NEBRASKA

30 CHOICE BIG-TYPE POLAND CHINA

MALE pigs March farrow, long, heavy bone. The best of breeding; sired by Big Bone Wonder 157461. Also Wonder D. 189573, a son of the great A Wonder 107363.

William Drummy - Ryan, Iowa

COCKERTON OFFERS TWENTY BOARS

I HAVE 20 head March and April Poland China boars—good ones—growthy and big-boned fellows sired by **Orange Jumbo** and **Cloverdale Wonder.** Also a corking good spring yearling boar sired by Big Wonder. Write me at once about these boars. Address **James Cockerton, Whiting, Ia.**

POLAND CHINA herd boar, Long Victor 2nd 202751, a March yearling weighing 400 lbs; 1 winter pig and winter gilts weighing 200 lbs; March pigs, either sex, will weigh 100 lbs. Will ship on approval. Henry Moll, Garner, Iowa.

WAYSIDE POLAND CHINAS---Choice big-type fall yearling and spring boars and forty sows and gilts bred for March and April farrow. Address **E. J. Augspurger, Fulaski, Iowa.**

BIG POLAND CHINA BOARS

FALL yearlings and spring boars. Cholera immunes. Sired by Hum Dinger, a state fair winner. **H. U. Arthur & Sons, Spirit Lake, Ia.**

BIG...

I AM offering 20 ... prize-winning boa... ters of Long Wonder, Long Chi...

R. W. HALFORD -

Big Orange, Big Sampson...

TWENTY big husky March and April Poland China boars, ... prices are very reasonable for such classy stuff. I have not ha... I sold more fall boars at the Iowa State Fair and at a higher avera... now for sale are just as good. Address **A. J. BANKS, MONT...**

I WILL GIVE YOU A PIG IF YOU ARE I...

MY Big-Type Poland China boars are sired by Cox's Wonder, by Rud... King sow and by A. Model, grand champion of Iowa, 1912, and other... Write me.

B. F. MARMION - - FAR...

POLAND CHINA BRED SOWS AND G...

ABSOLUTELY none bigger or better bred than the gilts that we are offering from our herd at this ti... The gilts are all early farrow and are big, extra big and they are well bred. Sired by Old Reliable by Long King, Roseler's Giant by Long Chief and others. Bred to A Columbus and to King Cole by Big Orphan. Write us for the big ones.

WARP BROS., MINDEN, NEBRASKA.

JOHN C. NYRUP'S
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I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.

JOHN C. NYRUP - HARLAN, IOWA.

Big-Type Poland Chinas On Approval

TEN extra, immuned cholera-proof boars with length and quality. Also three registered Shorthorn bulls at one-half price. Address

R. J. BRONNER

R. 6, BOX 36 - - CRESCO, IOWA.

22 BIG-TYPE POLAND CHINA BRED GILTS FOR SALE 22

I AM offering **22 head of choice big-type gilts for sale,** sired by my two great herd boars **Colosso 2d** and **D.'s Wonder;** 9 Colosso 2d gilts bred to D.'s Wonder, the great son of A Wonder, for March and April litters. These are good. Write me for prices at once. Mention The Homestead.

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POLAND CHINA BOARS

MUST sell my Poland China boars regardless of profit. All my feed to buy which is high and hard to get. Strictly big type with quality. Priced from $15 up. Address

C. H. DRAKE - - - - LISBON, IOWA

20 BIG-TYPE Poland China fall yearlings, passed through cholera last winter, $35 each; 15 choice spring boars $25 each; such noted sires as Chief Price, A Wonder, Long King, Big Orange, Big Ex., Sioux Chief, Big Jumbo, etc., have had a part in producing this stock. Send your order at once. Brood sow sale February 25th. Jno. H. Fitch, Lake City, Iowa.

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address

Homer L. Faulkner, Box 117, Jamesport, Mo.

Not the originator, but the preserver.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.

O. J. SATRE - - - JEWELL, IOWA.

POLAND CHINA herd boar, Long Victor 2d, a March yearling weighing 600 lbs., and 3 March boars weighing 250. All went through cholera 3 mo. ago and are now healthy. Also 1 10 mo. old Polled Durham bull calf. Henry Moll, R. 1, Garner, Ia.

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YORKSHIRES—The large, long-bodied, heavy-boned, prolific kind. Sows and gilts bred to farrow March and April. 60 head of Sept., Oct. and Nov. pigs, pairs, trios, not akin. Write for prices and descriptions. W. C. Cook, R. 42, Ada, Michigan.

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IMMUNE BERKSHIRE SPRING BOARS. Sired by Michigan Best Boy. Good blood lines. Healthy thrifty pigs. Write Geo. M. Fox, Village Side Farm, Dallas Center, Iowa.

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THE **great champion, RIVAL'S CHAMPION 112500,** in service. Assisted by Artful Belle's Rival 3d, Masterpiece Rival 2d and other leaders.

700 Spring Pigs For Sale. Splendid type, uniform, well grown. **No culls.** All sired by the above boars and from the richest maternal ancestry known to the breed.

Every Animal Cholera Immune. We have sent pigs out into the cholera districts where hogs were dying every day from the disease, and **in no case have we ever had one of our pigs take the cholera, although they were left there for weeks at a time.**

We aim to supply the wants of those desiring good stock and ship nothing else. Write us clearly what you are after, or better, come and see us. Mention The Homestead.

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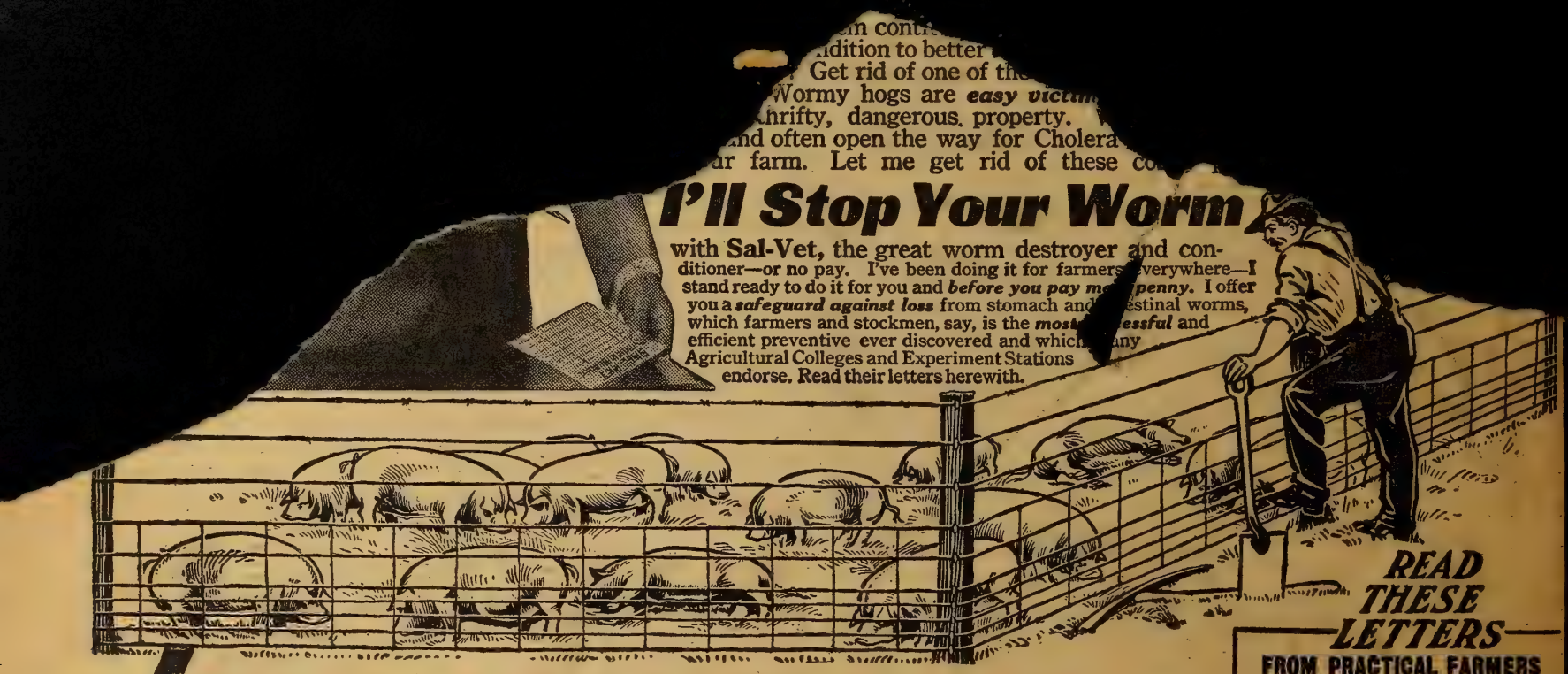
BERKSHIRES... We can supply your wants in choice boars and sows of April farrow. Pairs and trios not akin, representing as good a line of breeding as you will find. Will please you or no sale. Orlando Jacobs & Son, R. 4, New London, Iowa.

BERKSHIRE BOARS FOR SALE. Some fine spring boars, nicely bred and good individuals. Cholera immunes. Write for prices. Fred Divelbess, Logan, Iowa.

I'll Stop Your Worm

with **Sal-Vet**, the great worm destroyer and conditioner—or no pay. I've been doing it for farmers everywhere—I stand ready to do it for you and ***before you pay me a penny.*** I offer you a ***safeguard against loss*** from stomach and intestinal worms, which farmers and stockmen, say, is the ***most successful*** and efficient preventive ever discovered and which many Agricultural Colleges and Experiment Stations endorse. Read their letters herewith.

READ THESE LETTERS

FROM PRACTICAL FARMERS

"The cholera has been killing hogs all around my home, but I have not lost a single one. I have never used so effective a remedy."—Sanford Gerst, South Boston, Va.

"I found 'Sal-Vet' to do just what you said it would; it is sure death to worms. Moreover, although the cholera has reached throughout this neighborhood, I have not had a single loss since feeding 'Sal-Vet.'"—Joe Gahimer, Alexandria, Ind.

"The hog cholera is all around us in this neighborhood, but so far there is not a single case among the hogs belonging to the men who are feeding 'Sal-Vet.'"—Thomas Cannedy, Roodhouse, Ill.

"Hogs all over our country are dying in large numbers, and many right here in my town have lost hogs from some cause, but I could not wish mine to do better than they have since feeding 'Sal-Vet.'"—D. E. Knight, Honeah Path, S. D.

"Before getting your 'Sal-Vet' I had lost thirteen of my best hogs, but since feeding 'Sal-Vet' I did not lose a single one, and every animal is in fine condition."—Geo. Moren, R. No. 1, Pittsburg, Kan.

"Before I started to feed 'Sal-Vet, my hogs were sick; and I had lost six of them; since feeding 'Sal-Vet' I have lost none, although some of them were pretty sick before they had access to 'Sal-Vet' and had lost their hair. However, they pulled through all right and now have good appetites and are thriving."—Earnest Triebel, Rt. No. 2, Clearwater, Minn

"'Sal-Vet' freed my hogs from worms by the wholesale. I'll not be without it."—(Signed) Henry Iverson, Wagner, S. D.

"My hogs are doing finely; have kept 'Sal-Vet' before them for two months and while there has been lots of disease amongst hogs in this section, none of mine have been sick."—Geo. A. Eline, Rt. No. 20, St. Mathews, Ky.

"I have kept 'Sal-Vet' before my hogs all the time, and I never saw them do so well. A lot of hogs died all over this part of the country, but mine have remained perfectly healthy."—Thomas V. Smith, Ellington, Mo.

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simply to show you what **Sal-Vet** will do for you, I will prove to you what I have proved to thousands of farmers in every State. I'll furnish all the **Sal-Vet** you will need for 60 days' use. Feed it according to directions—if it don't do what I claim you won't owe me a penny—if it does—the cost is trifling compared to the benefit.

The Great WORM Destroyer

TRADE MARK

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The Great LIVE STOCK Conditioner

is a medicated stock salt—death to deadly, disease-breeding stomach and intestinal worms. It is a great conditioner for all stock. Cholera and swine plague are sweeping the country. Low vitality caused by worms is often responsible for these diseases starting on many well kept farms. Take no chances. Don't experiment—feed **Sal-Vet** and rid your hogs of deadly worms. You have nothing to lose by accepting my prove-it-before-you-pay offer.

Send No Money—Just the Coupon

Tell me how many head of stock you have. Don't send me a cent of money—just the coupon. Simply pay the freight charges on arrival—feed the **Sal-Vet** according to the directions, then after the sixty days are up, report results. If it don't rid your stock of profit-eating, disease-breeding stomach worms and intestinal worms—I'll cancel the charge. ***I take all the risk.*** Don't delay sending me the coupon. The time to take precaution is NOW. Tomorrow may be too late.

Get your coupon in so that I will have a chance to fill your order at once. I am shipping tons of Sal-Vet every day on this offer.

(141) **SIDNEY R. FEIL, President**

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SIDNEY R. FEIL, President
THE S. R. FEIL COMPANY,
Dept. IH 12-18-13 CLEVELAND, O.

Ship me enough **Sal-Vet** to last my stock 60 days. I will pay the freight charges when it arrives, agree to report results promptly in 60 days, and at that time pay for it if it does what you claim. If it does not, you are to cancel the charge.

Name.....

P. O......

Shipping Sta.....*State*.....

.....*Hogs*.....*Cattle*.....*Horses*.....

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PRICES 40 lbs., $2.25; 100 lbs., $5; 200 lbs., $9; 300 lbs., $13; 500 lbs., $21.12. No orders filled for less than 40 lbs. on this 60 day trial offer. Never sold in bulk; only in Trade-Marked Sal-Vet packages. Shipments for 60 days' trial are based on 1 lb. of Sal-Vet for each sheep or hog, and 4 lbs. for each horse or head of cattle, as near as we can come without breaking regular sized pkgs.

Reading Room
Agricultural Hall
Urbana Ill

The Iowa Homestead

VOL. LVIII. NO. 52. DES MOINES, IOWA, DECEMBER 25, 1913. WHOLE NO. 2933

Trusting in Santa Claus

I'll Trade You a Galloway Manure Spreader Any Time for 400 Bushels of Corn! Read This Letter.

Here's One Man's Experience With a Galloway

I own a six hundred acre tract of land and had it rented. The renter neglected to haul the manure out as it occupied a great deal of time in the old fashioned way of spreading with a fork. So in 1908 I decided to purchase the GALLOWAY SPREADER and put a man to work for one month. He hauled on an average of twenty loads per day. He hauled five hundred loads or more, about two-thirds more than the original way. I had even the old stack bottoms spread over the fields. We started on forty acres and manured twenty, that was in the fall of 1908. We put the forty in corn the next spring and **the twenty that got the manure yieided twenty bushels more per acre than the other twenty beside it on ground not manured.**

Both the renter and myself were well pleased with the results and the next spring, 1909, we decided to utilize all manure we could as it required so little time to use the GALLOWAY SPREADER as it takes about three minutes to distribute one load, and it takes thirty minutes or more the old fashioned way, then we get it more even and the manure went twice as far. I noticed in going over another farm, that I oversee where there is no spreader provided, the manure was in chunks, other places were barely getting little orno good of the fertilizing. **The hay on the meadow yielding one-third more where we used the spreader.**

And in the fall of 1909 we manured ten acres for corn and when gathering this fall **we gathered from one-third to one-half more corn to the acre than heretofore, enough or more than enough to pay for a GALLOWAY SPREADER.** The land beside the ten acres was just as good, but did not yield but one-third as much. We tried it again on meadow land with good results.

FRANCIS E. CROUCH, Blockton, Iowa

Are You A Land Owner? Are You A Renter?

Then read this remarkable letter from an up-to-date, progressive farmer. Yes, sir, read it over twice---three times---a dozen times. Read it over and then think it over—it's the most unusual—the most remarkable—testimony on manure spreaders ever written. Why? I'll tell you why! Because, here is the case of a large landowner furnishing his renter not only with a manure spreader but with a man to run it at his own expense in order to get the manure out on his land and keep it in good condition. Did you ever hear of a similar case? I never did. I've heard of landowners buying spreaders for their tenants, but never before hiring a man to do the work.

Did it pay? I should say it did! Ask Mr. Crouch or his tenant. Will it pay you? I can show you thousands of letters from my customers that prove a Galloway Manure Spreader to be the best machinery investment they ever made. Yes, sir, it will pay you and pay you big. You can't afford to be without one.

Let me tell you something. There are millions of acres of land in this country today starving for want of manure—land that would pay a profit with the aid of manure and a manure spreader. There are a million and more farms in this country today without a manure spreader running at a loss that would pay a profit if the owner or renter would invest in one. That's what it is—an investment—a big dividend producer for any farm.

Now, I am dead in earnest about the proposition I made you at the top of this page. I am dead in earnest on this manure spreader proposition. I believe the manure spreader is the most needed tool on the farm. **No farm can afford to be without one. Yes, sir, I'll trade you any style or make of Galloway Spreader you want any time for 400 Bushels of Corn.**

Will you do it? Never! Of course you won't because I'd be getting the long end of the deal. **I know it!** But, that's just what the Galloway Spreader did for Mr. Crouch; produced 20 bushels more corn to the acre on 20 acres on the same identical ground—than he raised on twenty acres where he didn't use the spreader. Paid for itself the first season. Didn't it? And then paid good big interest the next season on his hay land. It will pay you just as well. Mr. Crouch could better afforded to have traded me 400 bushels of corn for his spreader than to have done without it for, it made him that much and more the first year, — while he has the use of the machine for years to come. So can you or any other man afford to take me up on my one-sided offer, but I don't ask it. No, sir, I don't ask one-fourth that much. My prices are so low and my direct from factory terms so liberal that any man can afford a Galloway Spreader.

Now here's the point. It doesn't make any difference whether you are a landowner or renter, you can't afford to be without a manure spreader—not for another day. If you're a landowner it will pay you a bigger profit out of your land and raise its value. If you are a renter it will help you pay the rent and make a bigger profit besides. The manure spreader means the same thing to either landowner or renter. **Bigger profits at the end of the year.**

That's not only my word for it—but, the word of thousands of business men farmers. A lot of them at first didn't believe their Galloway Spreaders would make them the profit I said they would—that today wouldn't sell their spreaders for many times what they cost if they couldn't get another one.

Borrow the money at the bank if you have to and buy one—or better still write me for my liberal time payment terms and let the spreader pay for itself. It will do it. Now, just note my new low prices on Galloway spreaders. Get my new catalog giving all the facts. Just fill in coupon below. Do it now.

WRITE ME TODAY FOR MY NEW CATALOG DO IT NOW!

My Direct From Factory Prices Save You $25 to $45

$39.50 CASH WITH ORDER PRICE — **Buys My No. 0 Wagon Box Spreader--- The Lowest Price Ever Made On An Attachment Spreader**

My No. 0A Complete 50 Bus. Spreader Only .... $64.75 CASH WITH ORDER PRICE — **The Lowest Price Ever Made On A Complete Manure Spreader**

My spreader prices are slashed clear to the bone. You have never before in history had an opportunity to purchase a strictly standard, high quality spreader at such a never-before-heard-of price. Yes, sir, right at the start I will save you from $25 to $45 on the manure spreader you buy of me. Isn't this money worth saving? It certainly is and I know every business man farmer is going to take advantage of these new low prices. Investigate! That's what I want you to do. The more you investigate my prices, my spreaders and my direct from factory, one-profit-plan of selling the better I like it. It means in the end just one thing sure—a new customer and a new friend of the Galloway Way. Remember, my new low, unequalled prices are made possible by my dealing right direct with you—cutting out all middlemen's profits, all salesmen's expenses and dealers' bad debts. When you buy of me direct from the big Galloway Chain of Factories you have only one small manufacturer's profit to pay in addition to the actual cost of materials and labor that enter into the construction of my machines. Then back of every spreader I sell goes a strictly 5 year guarantee on materials backed by a $25,000 legal bond. With the most liberal free trial offer ever made. My spreaders must please you absolutely after a thorough test on your own farm or you can return them and I will refund your money and pay all the freight. Can you beat this offer? Never! Try the Galloway first, before you think of buying any other style or make of spreader.

Nine Different Styles and Sizes to Select From

You will find just the size and style spreader you want for your farm in the complete Galloway line at a price that will tickle your pocketbook. My attachment or wagon-box spreaders are the only successful wagon-box spreaders made, for their patented adjustable features are necessary. No other make or cheap imitations have these features. Remember the Galloway is the first and original wagon-box spreader. More of them in use today than all other makes combined. They will fit any style of farm wagon gear or truck. Four styles and sizes to select from.

My Complete Spreaders are unequalled—Trucks are detachable and can be used for other purposes. Three styles and sizes to select from. My big Jumbo, 80-bushel capacity spreader is a giant among spreaders and sells for only $93.50 f. o. b. Waterloo. My low-down, semi-underslung spreader is the last word in manure spreader construction. Light draft, two horses will handle it easily, large capacity, equipped with the proven Galloway features of mechanical construction—in a class by itself. Get my new catalog showing all my different styles and sizes. Do it now.

Trucks Detachable. Saves You $35 to $50

Don't forget this great fact. When you buy a Galloway Complete Spreader—My Famous No. 5, 60 and 70 bushel capacity machine for instance, you get a regular standard, wide track farm truck that you can use for other purposes. It is equipped with patented adjustable bolster stakes so it will take a regular wagon box, hay or hog rack or you can use it for hauling logs, etc. My spreader trucks are the best and strongest farm truck on the market. Made almost entirely of steel with flexible front trucks—cut under type. You can't buy their equal at a dealer's for less than $45 to $50. You save that much by buying your complete spreader of me, for I save you the price of an extra farm truck. These spreader-trucks are guaranteed to carry 6,000 pounds. Both my spreaders and trucks are sold under the strong Galloway Guarantee of your money back if not satisfied. Try them 30 days on your own farm, entirely at my risk with the money in your own pocket. Get my new special **30-day Free Trial Offer.** The most liberal offer ever made. Write me today for my catalog and full details of my offer.

Get My Special Offer

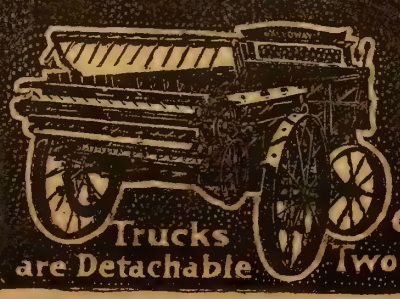
Then as a final clincher I have a new, special, cooperative, profit-sharing offer to make you that simply can't be beat. It will help you get your spreader partly or entirely without cost to you in the end. No canvassing or soliciting. Just the simplest business proposition you ever heard of. Write me today for my new spreader catalog and I will give you full particulars of my offer and send you also Free my valuable book of information "A Streak of Gold" which is worth the price of a manure spreader to you any time if you follow its common-sense suggestions on the proper use and care of manure. It's brim full of valuable information on this important subject. Send for my catalogs. Do it before you lay this paper down. Just fill in, tear off, and mail free catalog coupon or write me a postal. Address

Wm. Galloway, Pres., WILLIAM GALLOWAY COMPANY, 19 GALLOWAY STA. WATERLOO - - IOWA

My Famous Spreaders

No. 1A 50-60 Bus. $76.50

No. 5 60-70 Bus. $79.50



My New Low-Down Semi-Underslung 60-70 Bu. Spreader $89.50

Mail This FREE Coupon NOW!

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19 Galloway Station, Waterloo, Iowa

Please send me FREE your new price-slashing offers on manure spreaders and your valuable book of information, "A Streak of Gold."

(If you want any of my other catalogs just put check mark (x) in square below.)

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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, DECEMBER 25, 1913.

Farm Woman Wins High Honor

Born in the Heart of the Grain Belt Mrs. Belle Van Dorn Harbert, of Colorado, Becomes President of International Congress of Farm Women—Works on Own Farm and Wins Success Unaided.

NEAR the little town of Manzanola, Colorado, lives Mrs. Belle Van Dorn Harbert, a practical farm woman, who was elected president of the International Congress of Farm Women last summer at Ghent, Belgium, The nations represented at this congress were Canada, Ireland, Scotland, England, Spain, France, Belgium, Holland, Germany, South Africa, Australia, Hungary, Denmark, Servia, Colombia, South America, Panama, Austria, Switzerland, Poland, Russia and the United States.

In this wonderful assembly were delegates ranging from the Princess of Spain down through all the social grades to the hard-working farm woman. Their spirit was very democratic, friendly and uplifting. Mrs. Harbert, attired as a practical farm woman, mounted the platform and made her straightforward talk to the thousands of delegates, among whom were many women of distinction and wealth.

She simply carried all hearts when she told them that she was only one of 90 per cent of the farm women of the world who did their own kitchen work, that she knew all about poverty and want, for she had experienced both, that she knew something of the need of the farm woman, and that she was a practical worker, having pruned with her own hands a thousand cherry trees before she left her home in the United States.

These delegates were so well pleased with her address and spirit that when the opportunity was given they arose with one accord and chose her as their first president of the International Congress of Farm Women.

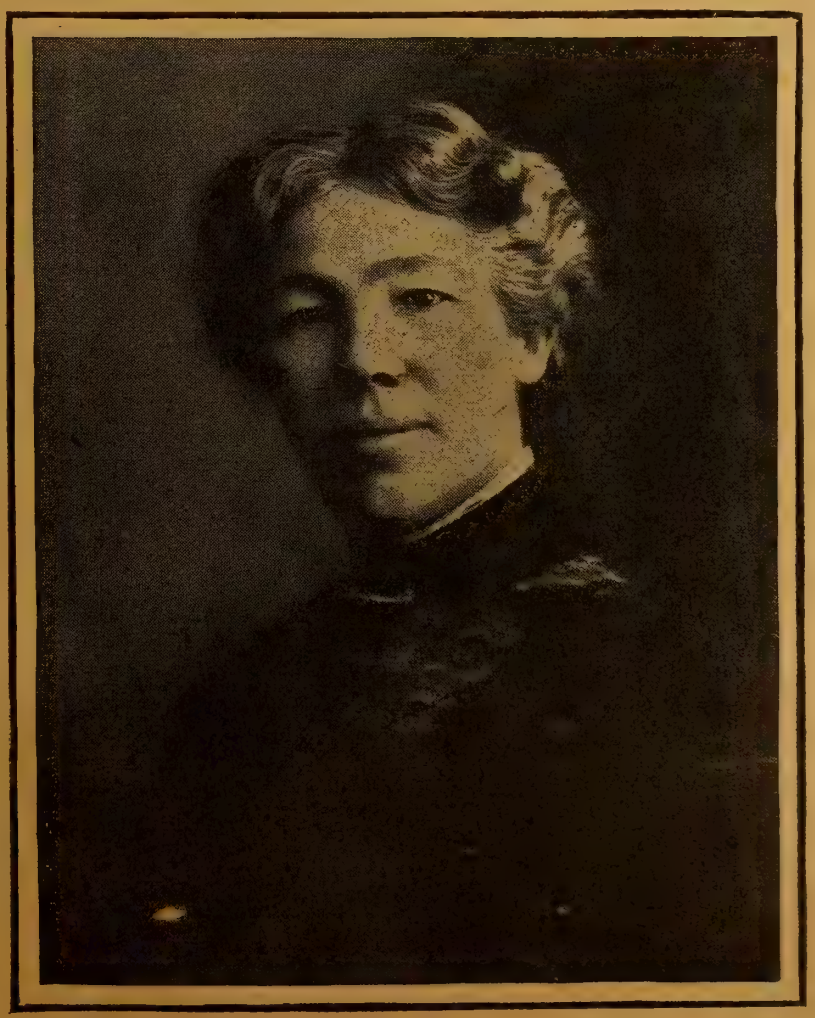
Then they entertained her magnificently. The Belgian division of the congress provided her with an interpreter and a guide. At her disposal was a costly automobile and an English-speaking chauffeur. Mme. Jules Malotte, of Ranncourt, Belgium, gave a banquet in her honor. Here she was introduced to the representatives from twenty different countries. In Brussels the greatest orchardist of the world honored her with an orchid tea. In Paris Mme. de Velmouir introduced her to the president of France, and he took her for a marvelous automobile trip across France and through Spain to the great rose gardens near Seville that are called "Perfumers' Paradise." Here she viewed a vast valley brimming with roses of many colors and intoxicating odors. It was a never-to-be-forgotten experience and intellectual and social feast which made her feel the close and tender relation existing between the peoples of the earth. But who is this woman? She is a new sort. She is intellectual, broad, tolerant, and simple as a child. She was born in Des Moines, Iowa, and supported herself from the time she was eleven years of age. She had a great battle with poverty and adversity, but worked her way through college. By studying at night she took her bachelor's and master's degrees. She went to Denver, Colorado, where she taught for a number of years. She knew nothing about luxury until she had carved the equivalent out with her own hands. A few years ago she and her husband moved to a farm near Manzanola where she is, as she declares, "a practical farm woman."

Three years ago the International Congress of Dry Farming held its fifth annual session at Colorado Springs, Colorado. At this enthusiastic congress a great many women, who were extremely interested in farming, had gathered. Mrs. Harbert and Mrs. E. L. Burns were especially interested in the work of farm women and made their influence felt. So with the consent of the men they organized and started the American movement known as the "National Congress of Farm Women."

These two women financed the movement and began their labor of love for the farm women of the country. There were twenty-five women in the first organization, but by the close of the following year when the International Dry-Farming Congress met at Lethbridge, Canada, this organization of farm women numbered ten thousand. During the meeting the women of Canada organized and united with the American women and called their new organization "The International Congress of Farm Women." Mrs. Harbert was elected president; Mrs. Bertha Stavert, of Calgary, Alberta, first vice-president; Mrs. A. T. Watt, of Victoria, B. C., second vice-president; and Mrs. E. L. Burns, secretary, with a large executive board composed of well-known Canadian and American women.

At the beginning of 1913 this organization was requested to participate in a Farm Women's Congress to meet in Belgium about the middle of the following June. Mrs. Harbert as president of the congress accepted the invitation. As there were no funds to defray her expenses for the trip, the Agricultural Club of Otero county, Colorado, with headquarters at Rocky Ford, only ten miles from the home of Mrs. Harbert, assisted in meeting her expenses

When Mrs. Harbert departed for Europe in May, 1913, the American branch of the Farm Women's Congress had grown in membership from 10,000 to 200,000. There also had been a great growth in Canada where the women had become deeply interested in the movement. In Brussels and afterward in Ghent, Mrs. Harbert found many delegates from different countries, each of which had started its own independent organization for the betterment of farm women. They had come with singleness of thought and purpose to cooperate with and learn from one another. The work of the International Congress of Farm Women embraces the world-wide rural home. Whatever is lacking in that home, whether it be in the home itself, its immediate surroundings, its social life, its school life, its religious life, becomes at once a problem for the congress to solve. It aims at community building, at the beautifying and brightening of the country home, at more frequent opportunity for social intercourse, at a better education for farm children, at the lightening of toil in the home, and at the raising of standards morally, mentally, physically and socially. And the women of the farms are undertaking this great work and adding interest to their organization. In Europe the government of each of the countries has made appropriations for the propagation of the movement, so that a better day seems about to dawn as a result of the untiring efforts of a plain and practical American farm woman.



MRS. BELLE VAN DORN HARBERT, FARM WOMAN, WHO HAS ATTAINED HIGH AND INTERNATIONAL HONORS.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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Des Moines, Iowa.

A NEW YEAR'S SUGGESTION.

The Iowa Homestead looks forward to 1914 as its best and most useful year. Improvements are planned which will make this paper more interesting and more instructive to every member of the farm family. Every department will be retained; in addition, new departments will be added. Changes have recently been made in the editorial staff which promise so materially to strengthen the already strong and efficient corps of writers and editors as to make possible the best farm paper ever published, without any rival whatever. Before the year draws to a close The Homestead will be published from its magnificent new home, now in process of construction, which will be the finest and largest building devoted to agricultural journalism west of the Allegheny mountains. Mechanical equipment, in keeping with this splendid structure, will be installed, so that in every possible manner the paper, during 1914, will be improved.

We are sharing this information with our readers in the belief that it will convince them of the benefit to be derived by them by continuing their names upon our subscription list. More than that, however, we believe that with this information in their possession they will take advantage of the exceptional offers we are making and will not only send in their own renewal promptly, but will likewise send the subscription of some friend, relative or neighbor. We can guarantee a paper throughout the next twelve months so full of practical advice and so entertaining and interesting to every member of the farm household that a new standard in agricultural journalism will have been established. We do not believe that any farmer can confer a greater favor upon a friend, relative or neighbor than to induce him to subscribe to The Homestead in 1914 or send him the paper as a present. We have set ourselves to the task of improving agriculture in the grain belt and will devote ourselves to the work, in the ensuing year, in a dauntless spirit and under advantages which promise wonderful results.

To all whose names have appeared upon our subscription lists during the past year, we venture this suggestion: Send in your own renewal promptly and send with it the subscription of friend, neighbor or relative. You will then have started the new year right and will have done your share in making farming still more profitable and productive. In the hope that every one of the big and prosperous Homestead subscription family will avail himself of the suggestion, we bring 1913 to a happy conclusion with the heartfelt wish that you one and all may enjoy a happy New Year's day and a whole prosperous and joyous year.

SWEET CLOVER AS A SOIL BUILDER.

The Kansas Experiment Station says that for quick results in improving a soil, sweet clover is superior to most other crops.

Its ability to thrive well on soils lacking in humus or otherwise badly run down makes it especially adapted for this purpose. Like alfalfa, cowpeas and other legumes, it has the ability to obtain nitrogen from the air by means of the nitrogen-gathering bacteria which live in tubercles on the roots of the plants, thus adding much nitrogen to the soil in which it grows. When plowed under for green manure or allowed to remain on the land this crop is a very efficient one in building up the humus content of the soil. The large roots, which penetrate deeply, break up the lower layers of the soil and add much humus thereto when they decay, thus improving the physical condition of the soil to a considerable depth below the depth of plowing. Sandy as well as heavy clay and hard-pan soils, which would not otherwise produce satisfactory crops, may be so improved in texture by growing sweet clover for a few years that they become quite productive.

Throughout the greater portion of the corn belt, the plan of sowing sweet clover in the spring with a nurse crop, is entirely practicable when seeded at the rate of twenty pounds per acre when the hulled seed is used, though it requires three or four pounds more per acre if the unhulled seed is sown.

Sweet clover may be expected to give good results when seeded with winter wheat. In that case it should be sown early because a considerable part of the seed is very hard, and early sowing affords opportunity for the frost to crack this hard coat. Unless it is seeded in time so that considerable freezing and thawing takes place, it is advisable to give the winter wheat surface a good harrowing early in the spring. It will do the wheat good and the covering of the seed will insure a more uniform stand of sweet clover.

UNFAIR SHIPPERS' RATES.

Most of our readers are aware of the existence of what is known as the National Society of Record Associations. This is a voluntary organization of thirty of the leading registry associations in America representing a total membership of practically 100,000 breeders. One function of this organization is to bring about the adjustment of the present inequitable railway rate requirements governing the shipment of pure-bred live stock.

At the annual meeting of this association, held two weeks ago, attention was called to the fact that a stallion shipped from Chicago to Madrid, Ia., takes a minimum weight of 3,000 pounds. The rate amounts to $20, provided the shipper signs the limited live stock contract. The signing of such contract, however, binds the shipper to accept $100 as the total valuation for the animal in case of injury or death, whether the fault rests with the railroad company or not. If the actual valuation, say $1,000, be declared, the freight rate advances to $47, which is an exorbitant increase in rate even though designed simply to cover the cost of insurance. If the same stallion be shipped from Chicago to Plain City, Ohio, approximately the same distance, the minimum weight at which he will be shipped is 7,000 pounds, and the rate amounts to $31.70, providing the shipper signs the limited liability live stock contract, which requires him to accept $100 as a total compensation in case of injury or death to the horse. If the shipper declines to sign such limited liability live stock contract and ships the horse at an actual valuation of $1,000, the horse is shipped at a minimum weight of 10,000 pounds, and at one and one-half first-class rates, so that the total charge will amount to $64.50, a most exorbitant increase in rate imposed upon the shipper who declares the actual valuation.

The same conditions prevail in the shipment of breeding cattle, the only difference being in degree. In addition to the foregoing, all of the railroads are in the habit of issuing exceptions to the live stock classifications and rates, which have the effect of superseding the published tariffs and which impose additional requirements, which are a burden to the shipper in time and expense.

According to a decision of the United States Supreme Court shippers are prevented from recovering more than the value of the live stock as given in the contract unless the exorbitant rate referred to above is paid. The executive committee of the National Society of Record Associations has been endeavoring to bring about a change of this ruling by appealing directly to the officers of the railroads, but so far, no success has been attained. It is now proposed to carry the matter to the Interstate Commerce Commission, and ask that the following changes be made: for a lowering of the minimum weight or a cutting out of the exceptions to the qualifications; not requiring attendants to be in charge of live stock; that the liability assumed by common carriers be increased in the case of registered animals to $200 on horses, $150 on cattle, $50 on hogs and $50 on sheep. Furthermore, a request will be made to the Interstate Commerce Commission to have the railroads comply with the ruling whereby shippers who desire a higher valuation on their animals be allowed same by increasing the freight rate 5 per cent per each 100 per cent in valuation or fraction thereof, instead of 25 per cent increase in rate per each 100 per cent increase in valuation.

Unquestionably the breeder of pure-bred stock is at the present time too severely handicapped when it comes to shipping, and much good will be accomplished in behalf of the live stock industry if the Interstate Commerce Commission should rule favorably on these matters.

FEEDING CATTLE ONCE A DAY.

One of the most successful cattle feeders in the corn belt feeds his fattening steers but once a day. He has been engaged in the practice for a period of twelve years, and during that time has finished for market several thousand steers. His financial rating indicates that his feeding ventures have been exceedingly successful.

At the present time 450 steers are on feed, and these are making most excellent use of their time and their feed, though they are fed only in the morning. The general plan is to, first, give the steers a good feed of ensilage—just sufficient so that it is cleaned up, and yet, on the other hand, the desire is to get them pretty well satisfied. When the ensilage is all cleaned up, they are then fed what amounts to about ten pounds of corn, per head, and about five pounds of hay, per head, is placed in the racks. After this they receive no more feed of any kind until the next morning.

There are two reasons why the cattle are handled in this way. The first one is that the owner is convinced as the result of his own experimental work that just as large gains can be had from feeding once a day as can be obtained by feeding twice, while in the second place it greatly economizes labor. One man at the present time is caring for this bunch of 450 steers, so that it is apparent from this alone that economy from the standpoint of labor is included in the scheme.

In connection with this it might be of interest to recall a little experiment conducted on this farm in 1912. Two car loads of steers were sorted and supposedly the top fifteen were selected to be fed out for the Chicago International Exposition. The tail-enders, or the fifteen steers that were left after taking out the tops, were turned back into the feed lot, and were carried through the feeding period, according to the accustomed plan, which involved feeding only once a day. The exhibition load was placed in the hands of an expert, who immediately began the stuffing process, feeding two and sometimes three times a day.

All the cattle were sent to Chicago at the same time and the tail-end car load was passed by the sifting committee. When the premiums were distributed, it was found that the tail-end car-load lot received second award in their class, and the top steers, that were especially for exhibition purposes, were given third place.

We are free to admit that the good results that have come in this case from feeding once a day are more or less a surprise to us, and yet they have given such excellent returns on the farm referred to that it is quite worth while to pass along this suggestion to stockmen. If any of our readers have tried out this plan and found it either to be satisfactory or otherwise, they will confer a favor upon their fellow readers if they will send in the result of their experience.

ELECT TWO NEW DIRECTORS.

Two new district directors were elected by the Iowa State Agricultural Society at its annual meeting in Des Moines last week. Mr. C. H. Tribby, of Mount Pleasant, succeeds Mr. R. S. Johnson, of Columbus Junction, formerly in charge of the swine department of the Iowa State Fair. Mr. C. A. Tow, of Norway, succeeds Mr. E. M. Wentworth, of State Center, formerly in charge of the public safety department of the Iowa State Fair. Both the retiring directors proved efficient workers, but the theory of rotation of offices led to their elimination. Their successors are men of standing who may safely be relied upon to continue the work in an efficient manner.

Mr. C. E. Cameron, of Alta, was re-elected president, while Mr. O. A. Olson, of Forest City, was re-elected vice-president, without opposition, as were also the remaining directors, as follows: Mr. Elmer M. Reeves, of Waverly, Dean Charles F. Curtiss, of Ames, Mr. John F. Summers, of Malvern, and Mr. H. L. Pike, of Malvern.

The annual reports showed the association to be in a flourishing condition, having held its most successful and best attended state fair during the past year.

HOW TO PAINT METAL.

An enormous quantity of paint will be used by corn-belt farmers between this date and a period when spring work begins in 1914. Even though a great change has been made in the character of materials used in the construction of farm implements, whereby iron and steel have been substituted for wood, there is yet occasion to keep up the practice of painting every two or three years.

In a bulletin published by the United States Department of Agriculture it is pointed out that metal surfaces should be cleaned with soap and water, or with cloths moistened with benzine, before any attempt is made to apply paint.

Galvanized iron may be treated in the same way, but it is much better to let this material stand for some time exposed to the weather before painting. The metal portions of machinery are generally cast iron or steel; wrought iron is rarely used, though it is more durable than steel. Cast iron is not so liable to rust as steel, and also the pieces are frequently thicker than the steel portions of a machine. There is, perhaps, nothing that actually needs paint for protection as much as the steel and iron portions of machinery. Before painting such material the greatest care should be taken to get the surface perfectly clean. Do not apply paint over rust, but clean thoroughly with dry scrubbing brushes. It is a mistake to spare labor in preparing a metal surface for paint. All oil and grease should be scrupulously removed, and the metal surface should be brushed off, carefully filling all cracks.

Two or three coats of any good paint may be used. The paint which is generally supposed to protect iron from rusting better than any other is red lead. This is expensive, however, and rather hard to apply. The color also is some objection, although this can be overcome by mixing some dark pigment with it. The addition of a small amount of lampblack improves the color and the working quality of red-lead paint. A paint made of basic chromate of lead (so-called scarlet lead chromate, or American vermilion) is even better than red lead as a material for protecting iron. This also is very expensive, even more so than red lead, and while the protection is not so complete with the use of cheaper paints made of iron oxide pigments, on account of the fact that pieces of machinery are very likely to have the paint scratched and injured mechanically, it is, perhaps, best to use an iron oxide paint for most of such work, because of its cheapness. Any good oil paint will give valuable protection to iron if it is properly applied.

The heart is not easily taken out of a state that has an average of $600 in the banks and $750 worth of live stock on the farms for every family; that has property with an assessed valuation surpassed only by that of New York. Pennsylvania and Massachusetts; that in twenty years has harvested wheat worth $832,000,000 and grown corn having a value of $1,082,000,000.—From F. D. Coburn's "Annual Balance Sheet" for the state of Kansas.

LARGE YARDS FOR LIVE STOCK.

The problem of yard room for live stock on the average farm is generally solved when the farm buildings are erected. As a rule a permanent fence is thrown around the buildings, and under ordinary conditions there arises little necessity for changing the original plan.

An Illinois subscriber calls attention to the importance of having considerable yard room for live stock, and on this subject says:

About every farm barn there should be a good large yard. Before now I have seen yards that were really dangerous, being little larger than the space covered by the barn itself. No man would think of turning a lot of cows loose in a stable. He would know that it would be no time before there would be trouble between the different members of the herd and that some cow might be seriously, if not fatally injured. And yet, some men will turn their cows out into a little enclosure very little larger than the barn stable and think it strange that the cows do not get along well there.

There is in nearly every herd some cow that is inclined to want to be boss. The disposition to lord it over something or somebody seems to be in most men and animals. Especially if we have a cow that has recently come into the herd, she naturally expects to have to establish her position as a fighter before she will have any peace.

I have known cows under such circumstances to fight until they were just about used up. One cow we had was not as good as she should have been for a long time, just because she was of a bellicose nature. We kept her shut up in the stable and tried to make her forget this grudge she seemed to have against other members of the herd, but the moment we let her out again, she would go right at it, seemingly just where she left off. She was lame and sore all over, and I was afraid she would be permanently hurt.

The best way to avoid such conflicts between cattle is to give them plenty of room to move about in. Then if some one cow should make a dive for another, she would have a chance to escape without much trouble.

Then, too, there is this added gain in having plenty of room in the yard. Stirring about, particularly on bright sunny days, is a fine thing from a health point of view. A still, dull, listless cow is rather apt to be a poor one I want my cows to act as if they had some life about them.

By this I do not mean that they should not have times when they will like to stand still and drink in the air and sunshine and "let comfort hang out." I love to see nothing more than I do a herd of cows on a bright winter day standing in the sunlight, heads down, chewing the cud and evidently taking all possible comfort.

But this ought to be for only a comparatively short time. To be at their best cows should be bright, alert, active, ready for anything that may happen. Moving about keeps the blood circulating and prevents taking cold. Exercise promotes heavier breathing, and breathing burns up waste matter thrown off through the lungs and creates capacity for more food, which is converted into milk and butter.

I never had healthier cows than when they had to go a mile to drink every day. I used to turn them out when the snow was coming down and the wind blowing hard. They hated sometimes to face the gale, but they would down their heads and hurry away, coming back on the run. Then I would wipe them dry at once, rubbing their bodies and legs until they were all dry and warm and how they did go at the feed I had placed before them! The outing had done them all sorts of good. I was the gainer by it.

While it is true that the best interests of the herd require considerable space to move around, yet on the other hand, there is a tremendous loss of fertility if the yard is too large. Since dehorning has come to be generally practiced, there is less fighting in the herd, and for that reason there is some advantage in having a yard just large enough, so that it can be well covered with straw, and in turn all the manure conserved.

For exercise, far better throw open a gate, and let the cattle go into the fields because then fertility is placed where it will do some good. On the other hand where a yard is two or three hundred feet square, the greater part of the manure that accumulates under these conditions is lost because it never reaches the field.

CURING PORK PRODUCTS WITH BRINE.

An Illinois subscriber gives his method of curing pork products in brine. He calls attention to the fact that a great many of his neighbors cure their meat in brine instead of salting it down in a box. According to his plan, to fifty gallons of rain water should be added, twenty-five pounds of good barrel salt, eight pounds of granulated sugar, two ounces of cayenne pepper and two ounces of saltpeter.

Boil until all impurities rise to the top, then skim off. After cooling pour into wooden meat barrels. Do not put the meat into the brine until sure all animal heat is out and it has been trimmed to right size. Put the hams and shoulders into the bottom of the barrel with the sides on top and weight down so that no meat projects above the brine.

Let the meat remain in the brine for three weeks, then remove and smoke. If the meat happens to be a little too salty, put it into a barrel of fresh water for a couple of days. Hickory wood makes the best smoke for meat. Keep the fire smothered so that it will make a dense smoke. Then the meat may be put away in sacks after thoroughly rubbing it with black or cayenne pepper.

FANNING MILL IMPROVES GRAIN.

A subscriber at Ozark, Ill., points out some of the benefits that are derived from the sensible use of the fanning mill in grading grain. On this subject he says:

I have observed throughout this section of the country quite a contrast between adjoining grain fields. One will have grain with full heads, while the other, on land of the same character and value, will have a crop of very thin and sickly grain almost crowded out by the growth of wild grass and weeds. When such conditions come under my notice I invariably make inquiry to find the explanation and generally learn that the good crop has been produced from seed which went through a fanning mill. One man has used dirty, foul seed, while the other has run his through a good mill, perhaps has run it through twice. The result is that he has sown pure, clean seed, no weeds, no cheat, and all of one quality. This insures him not only a crop of like grain, but a much larger yield. A drill, no matter how good it may be, cannot distribute poorly graded seed evenly, for some will be light and chaffy, while others will be heavy and plump and the distribution, therefore, will be irregular.

The modern threshing machine separates the grain from the chaff and does the job very well, but the business of the fanning mill is to grade the seed-grain so that the seed will be all of the same size and weight or as nearly as possible. This may be drilled evenly, and of course such seed is more likely to germinate. It is easy, therefore, to see that the fanning mill is almost a necessity for the farmer who grows small grain.

Say a farmer has 500 bushels wheat and wants fifty bushels of seed. He can adjust his fanning mill so that he will take the cream of his wheat for seed and in all probability the remainder will sell for just as good a price per bushel at the elevator as it would had the seed not been taken. Such seed is well worth $3 per bushel to the farmer. It is just as important to sow the best seed as it is to breed the best stock. Plant breeding is just as important as animal breeding, and the intelligent farmer is coming to realize this as never before.

With proper care a fanning mill on the average farm, counting first cost and interest on same, will clean enough grain before it is worn out to make the cost less than one-tenth of a cent a bushel. There are fanning mills for farm use that will handle more than forty bushels per hour, but in view of my experience I believe that if two men clean ten bushels of wheat or oats for seed in an hour, and do it properly, they will do well. Figured at this low rate, see how very little it will cost to use the fanning mill, the benefits of it considered, we have known farmers to pay for a fanning mill in two or three seasons simply by cleaning grass seed out of the chaff from the mow. Some of the later mills are fitted with graders for grading seed corn and we all know how important it is to grade the seed.

This endorsement of the fanning mill is by no means too strong. The sowing of good plump grain year after year is the one practical plan that may be adopted by farmers to prevent grain from running out. One of the Canadian experiment stations has been working on this problem for a quarter of a century, and that station has demonstrated beyond any possibility of doubt that grain does not degenerate or run out if it is well graded every year. In all the older countries where agriculture has been carried on for centuries, the principle of grading grain is understood by all farmers, and the practice is universal in those countries. The man who does not grade his small grain is imposing on himself an unjustifiable handicap, which must ultimately lead to one of two things, the changing of the varieties of grain every few years, or, on the other hand, he must suffer the loss that naturally comes from the degeneration of his grain.

SWEET CLOVER FOR PASTURES.

A number of subscribers have asked for information concerning the value of sweet clover when used for pasture purposes. In most instances those who make such inquiries have had no experience with the crop whatever, and, therefore, they are seeking information that is specific in character. In his book on sweet clover, Mr. J. F. Sinn deals with the pasture question in this way:

When seeded for pasture sweet clover is generally seeded without a nurse crop, for then you can turn the stock on it just as soon as it gets up four or five inches high. It is best to turn the stock upon it while young, for it contains less cumarin and they will learn to eat it without difficulty. It is also well to pasture it without difficulty. It is also well to pasture it, for it causes more shoots to start up, making much better pasture than to allow it to grow up coarse and become woody. The first season it is not necessary to allow it to grow up, for it may be pastured close to the ground, as it will not be damaged and will come on again very early in the spring. One of the great advantages of sweet clover as a pasture is the fact of its coming on earlier in the spring than any other grass, with the possible exception of alfalfa, and in two weeks' time; on account of its more rapid growth it is even ahead of alfalfa. The easiest way to have stock become accustomed to eating sweet clover is by turning them on to the pasture early in the spring before other green grass has started. By doing this they form an appetite for the plant, eating it with great relish, and you will have no further trouble along this line,

Sweet clover pasture is adapted to all kinds of stock, horses, cattle, sheep, hogs and chickens do equally well on it. It is better to keep enough stock on the pasture to eat it off closely so as to cause it to form an abundance of new shoots, as you will get more feed off the pasture and stock will relish the tender plants much more. But you must remember the second year it is necessary to let it grow up enough in the fall, so as to form seed and re-seed itself. It can be pastured lightly through August and September, but if no seed is allowed to form it will not continue long as a pasture.

There are two great advantages of sweet clover as a pasture, and that is it comes on earlier than other green feed and it does not cause bloating of stock as do clover and alfalfa. This is due to, the cumarin, the bitter principle which the plant possesses, which is of great importance to the stock raiser. Cumarin has been used by druggists and physicians for thousands of years as a corrective, tonic and curative for intestinal disorders, and on this account it is considered extra fine for pasture, as stock keep in the best of health and condition when pasturing on it. Stock make great gains on sweet clover pasture. It is fully equal to either clover or alfalfa. Another advantage of sweet clover is that it will grow on soil that would not grow other grasses sufficiently to secure much feed. But sweet clover will make a food growth on poor soil, affording the best pasture for all kinds of stock and at the same time adds humus to the soil, building it up and fertilizing it to such an extent that other crops may be grown successfully when ready to rotate crops. Sweet clover is to be recommended to the sheep grower, especially of the West, for this plant will grow on thin, barren waste land, enduring the hot, dry summers, and will make a great amount of the best green feed. By careful experiments it has been found that sheep make great gains when allowed to graze upon it, there being no feed better adapted to them.

According to this advice, the sowing of sweet clover would solve the problem for those whose whole pastures were burned up last year, and who are, therefore, likely to be short of grazing land. The crop has been sufficiently tested with all kinds of stock to absolutely give assurance to those who use it, that any dislike animals have for it soon disappears if they are compelled to graze on it. Furthermore, there is an advantage to which Mr. Sinn calls attention, viz., it does not induce bloating, which is sometimes the case where alfalfa or red clover is pastured. As to the actual amount of seed required when it is sown without a nurse crop, we will say that in all probability it will pay to use twenty-five pounds of hulled seed per acre, though ordinarily twenty pounds of seed is sufficient when a nurse crop is used.

IMMEDIATE PROFITS IN CATTLE FEEDING.

More and more men are being convinced that the purchasing of a bunch of stock cattle and the finishing of the same for market is a speculative game, rather than a business proposition. This is not equivalent to saying that the exceptional man cannot carry on this practice and make a direct profit from his venture. The finishing of cattle on high-priced land, however, is being carried on by an increasingly large number of men who believe that the business is only profitable indirectly because of the effect on soil fertility.

An instance was called to our attention recently where a worn-out farm was brought up from a poverty-stricken condition in four years by applying manure, and growing legumes to the point where the gross production in 1913 was $92.00 per acre. In this case the alfalfa crop was used as a medium, and hogs the agency by which this crop was converted into pure money. The theory of this stockman has always been that direct profits from cattle feeding operations were only incidental, and that the returning of manures to the land, and the growing of such crops as alfalfa lead to such an enormous increase in productivity of the land that this increase, apart from the direct profits, more than justifies the carrying out of the policy.

This doctrine has been worked out in the older countries, so that it is by no means a novelty, and it is in no sense experimental. It may be carried out on a great variety of plans, including as it does either the system of breeding one's own cattle, and finishing them at an early age, or, on the other hand, purchasing grown cattle, and finishing them as the result of either a short or long feeding period. The nub of the whole matter is simply this, that stockmen must sooner or later fix on some system whereby the roughness, or what might be called waste, of the farm is utilized. With most corn-belt lands it is possible to double the yield of grain even during one rotation period, and when the waste of the farm is sensibly used, it might be practicable, under certain conditions, to sell grain and yet maintain, or further increase, the productivity.

God Bless Us Every One!

"GOD bless us every one!" prayed Tiny Tim,
Crippled and dwarfed of body, yet so tall
Of soul, we tiptoe earth to look on him,
High towering over all.

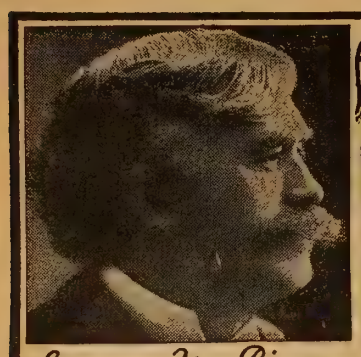
He loved the loveless world, nor dreamed indeed
That it at best could give to him, the while,
But pitying glances, when his only need
Was but a cheery smile.

And thus he prayed, "God bless us every one!"
Enfolding all the creeds within the span
Of his child-heart; and so, despising none,
Was nearer saint than man.

I like to fancy God, in Paradise,
Lifting a finger o'er the rhythmic swing
Of chiming harp and song, with eager eyes
Turned earthward, listening—

The Anthem stilled—the Angels leaning there
Above the golden walls—the morning sun
Of Christmas bursting flower-like with the prayer,
"God bless us every one!"

—James Whitcomb Riley.



James M. Pierce

THE PUBLISHER'S VIEWS ON TOPICS of THE TIME

THE NEW YEAR'S PROGRAM.

I LIKE to think of New Year's on the farm as a day when every farmer shakes hands with his neighbor and pledges himself to make the coming year a better one, in every way. Not alone in the matter of increased crop yields, but in improved community spirit, patriotic interest in every public question, unselfish devotion to the common good. Never before, it seems to me, were we in such splendid condition to make the coming year the very best of all.

Stop just a moment and reflect upon what we have accomplished in the year now closing. Last summer, some of us were inclined to be blue; we scanned the sky anxiously for rain, but none came. We began to talk of hard times; in some parts of the country, notably in the Southwest, we rushed our cattle to market in a hysteria of fear; we piled trouble upon worry and made a sorry condition of affairs, indeed. But the harvest came on apace, and some way or other our troubles and worries did not seem so great; we began to see visions of pulling through, after all; we began to smile now and then, one or two of us were even guilty of whistling, when we were sure nobody was listening.

And now, as the year comes to an end, what do we find our condition to be? Never so good. Let's call the roll of just a few of the states in which you and I are particularly interested. First, Iowa: corn crop worth the most in all its history. Next, Kansas: greatest wheat crop ever grown, 50 per cent more than was grown by any other state. Next, Missouri: wheat yield almost 15,000,000 bushels greater than last year. Next, Wisconsin: marketed $100,000,000 worth of dairy products during the year, the greatest total in all its history. And so on, throughout the entire roll of honor for the grain belt. Doesn't sound like calamity or hard times, does it? Sounds to me like the golden chink of many dollars, with the good, ringing cheer of farm fellowship blending most harmoniously.

And what are the prospects? In every state farmers are looking forward to 1914 as a year of unsurpassed opportunity. There are prospects a-plenty of unusual crop yields. Prices for farm produce have not been so high in many years. The prosperity that we are enjoying, after a little period of uncertainty and worrying, promises not only to continue, but to increase. Surely, you and I can look forward to the new year as to one of the best, busiest and happiest of our lives.

But we must not stop with these material things. We have done much to improve conditions; there remains much yet to be done. We must pass our prosperity around. It not only devolves upon us to raise bumper crops of corn and oats and wheat and so on; to breed our herds up to a higher standard of efficiency; we must all join hands and make the grain belt a still better place in which to live and to bring up our families. We must turn our attention to social problems. We must see to it that our farms, in all their diversity of yields and crops, are standardized, so that there may no longer be the extremes of bounteous harvests and barren ones—that the checkerboard of our community shall not show alternate fields of big yields and meager ones, but that each square in the board shall be a golden one, alternating only in the deepness of the rich yellow harvest—and the average of prosperity shall be well maintained. We must see to it that national problems receive their proper attention, that we give of our time to help our fellow men, that those reforms (political, as well as social) which we enjoy ourselves shall be spread and shared among our fellow Americans. We must see to it that the blessings which we enjoy become general, so that life may be richer and sweeter to all mankind.

It is a big program, isn't it, for one short year? But if you and I will just join hands on New Year's day and pledge each other our heartfelt, unswerving co-operation and loyalty, by the time another New Year's day rolls around we can look back upon a year of achievement which will stand without a rival, not only in our own lives, but in the history of our beloved country.

And so I come to you today, into each and every farm home where my words carry, with this message: A happy New Year to you and yours, a whole year of prosperity and contentment, a whole year of devoted service one to the other, to the end that we may all be better off, with the inner consciousness of good work well done.

CREDIT FOR THE VICTORY.

ONE fact should not be lost sight of, in the motion for presidential primaries, which the democrats, the progressives and the republicans have now made unanimous. That fact is this: The movement to bring about this reform found its beginning among the farmers of the grain belt.

Of the small handful of states which held presidential primaries last year four belong to the grain belt. No other section of the country—New England, Pacific Northwest, Rocky Mountain district, South, or Atlantic coast—showed so large a number of states granting the voters this all-too-long-withheld right. In North Dakota, Wisconsin, Illinois and Nebraska, presidential primaries were held a year ago last spring, in each and every case the victory being for the radical element of the various parties.

But this is not all. Before President Wilson gave an unexpected impetus to the movement, three presidential primary bills had been introduced in congress. Each and every one of the three was introduced by a grain-belt congressman, the states represented being Iowa, Kansas and Nebraska. Senator Bristow, of Kansas, calls attention to the fact that President Wilson's plan is practically a copy of the Kansas state primary law, which he embodied in bills introduced in the last two sessions of congress. Senator Cummins, of Iowa, tried to get the senate to consider presidential primary legislation, with the result that a year and a half ago his bill was referred to the privileges and elections committee, where it was smothered. Senator Norris, of Nebraska, likewise introduced a presidential primary bill in the last regular session of congress. Here, then, we have the representatives of three grain-belt states blazing the path for a reform which the entire country now seems eager to adopt. The list is made still more notable by reason of the fact that since President Wilson's endorsement it has been announced that a bill embodying his ideas will be introduced by still another grain-belt representative: Senator Owen, of Oklahoma. Four grain-belt states actually holding presidential primaries last year, three others leading the fight in Congress; here, surely, the grain belt has set the country a patriotic, non-partisan example which it now seems ready and anxious to follow.

The question naturally arises, why has it been that the grain belt has so taken the lead in this campaign? It is because it has been spurred into leadership by the farmer vote. Studying men and measures in the calm, reflective light of communal needs, the farmer has been able to find no reason why the individual voter is not as well qualified to select the nominees for president as for governor, judges, and all the other officials, high and low. While the rest of the country was arguing that the people had neither the time, the intelligence nor the determination sufficient properly to select their presidents, the grain-belt farmer went ahead, securing for himself this very right and by careful discrimination, conscientious reflection and patriotic action proving that the privilege was well deserved. In thus securing and justifying the presidential primary the farmers of the grain belt have rendered the country a real service of lasting value, which stands as an inspiration and an object lesson in the stability of the principles upon which our government is founded.

I firmly believe the national presidential primary will be brought about within the next year, so that never again will the nation witness such a disgraceful perversion of the people's will as characterized the 1912 nominating campaigns. I am just as firmly convinced that the credit for this great reform belongs to the farmer, for it was he who made the first breach in the century-old wall of conservatism and then stood up before the nation and showed that what he had won for himself should be given to all his fellow men. I am proud of the part the grain-belt farmer has played in this all-important matter. It makes me feel assured of the safety and continued prosperity of our beloved country, so long as the balance of power is held by the man who is influenced by national needs rather than party spoils, who considers men and measures in the light of patriotic service and communal welfare, rather than individual ambition or partisan victory; the man who really and truly represents the ideals upon which this nation was founded: the farmer.

CORN MEAL MUSH.

IT MAY seem as though I were engaged in "carrying coals to Newcastle," yet I cannot help urging on all my farmer friends the advisability of writing to the department of agriculture, at Washington, and securing Farmers' Bulletin No. 559, in which attention is directed to the freer uses of corn as one of our national nutrients possessing high value. I am very much afraid that here in the grain belt, where we look upon corn more as animal food than as a very palatable and delightful food for ourselves, we are overlooking some gastronomic possibilities which would make us healthier, happier and richer.

I was quite interested the other evening, in reading a daily newspaper published back in my home state, Ohio, to run across an editorial dealing with corn meal. And what do you think the editor, a city man, with all the range of seasonable delicacies in a near-by grocery store to choose from, selected for his favorite dish? Corn meal mush! Here is the tribute he paid to it:

> A good bowl of mush and milk—how good it sounds and how good it is! Take a great spoonful of it and it twangs the strings of the harp of health till every little fiber and nerve falls into a beautiful melody of life.

Doesn't that sound alluring? If you read that about some choice delicacy never grown or known outside of the South Sea Islands you would be eager to try it. But because we grow billions of bushels of corn right here at home you turn up your nose at anything so common as corn meal mush. Well, for my part I can tell you this: I have traveled around the world and eaten of the delicacies of many lands, paying for some of them outrageously high prices, but I have yet to eat anything more ambrosial than a bowl of corn meal mush, well sprinkled over with sugar and swimming in good, rich cream. It not only sounds good, it tastes good. And, best of all, it does us good.

So just take my advice and write off to Washington for Farmers' Bulletin No. 559. It will not cost you a cent and it will open your eyes to corn concoctions and delicacies that will make you think your life before you tasted them was one long, aching void.

James M. Pierce

ARGUES FOR THE FARM SCALE.

An Illinois subscriber brings up the question of farm scales, and endorses their use in strong terms. On this subject he says:

A set of scales is an absolute necessity on a well-managed farm, in order that the farmer may obtain the correct returns from his products. I have found this to be true with my own experience, for I have been using scales for a number of years, and I believe that I am safe in stating that the farmer who has none will make a very profitable investment by purchasing a small platform scale and making use of it to ascertain the correct weight of his hay, grain, potatoes and live stock before they are taken to the market.

David Rankin, the famous Missouri farmer and stockman, always advocated the use of scales in feeding farm animals. Some years ago the winner of the grand sweepstake prize for the best steer exhibited at the International Live Stock Exposition, said that in raising this animal he had weighed its feed and also weighed the steer twice a week. He said that he would no more try to feed farm animals without scales than he would try to sell sugar or coffee without the means of weighing them. Mr. Rankin very emphatically expressed his approval on this proposition.

I am of the opinion that many farmers lose enough in the course of a year, from their lack of knowledge of the weights of their products, to pay for a set of scales. This is one of the reasons why many farmers fall short of success. A short time ago I was in a local hog and cattle market. I met a farmer who had just sold some hogs and steers. He said: "I am certain that there has been a serious mistake made in weighing these animals by the parties who bought them. If I had possessed a set of scales I am sure I would have saved the cost by getting the correct weights on this one lot of cattle."

First-class platform scales, weighing from four to six tons can be purchased at from $50 to $100. There is pleasure and satisfaction in having such a convenience on the farm, always ready for use, to say nothing of the saving which with most farmers would equal the cost of the scales the first year or two.

Farming without scales is like shooting in the dark, very uncertain. The farmer who sells his hay in the rick his corn in the crib, or his hogs by guess, either defrauds himself or someone else. The farmer who relies upon his scales knows when he is getting a fair deal, and he knows whether his cows are producers or just "boarders." "None is so foolish as he who fools himself." The best farmer does not guess, he knows, and the scales help him to know. If there is not a scale on every farm, there should be at least one in every community.

Within the last few months we have heard considerable growling about the weights of feeding cattle that have been shipped back to the country from the stock yards, the buyer of the cattle in these instances being fully persuaded that grievous errors have been made. Many a corn-belt feeder has purchased a car load or two at the central market, shipped them to the country, fed them out, and these steers have never been on the scale until they were driven over it when finished. Under these conditions the feeder is working very largely in the dark. He has possibly fed a whole month or even six weeks before the steers were as heavy as they were when purchased in the yards, and this, in many cases, is sufficient to wipe out all the profit. Of course, the scale does not increase the weight, but it makes the work of stockmen more intelligible. While there are a great variety of farm products that should be weighed before leaving the farm, it cannot be too strongly emphasized that the stockman is tremendously handicapped who is without a good farm scale.

Federal aid for highways throughout the United States, unless planned upon some comprehensive system, was not favored by those who addressed the tenth annual convention of the American Road Builders' Association.

THE EXPERIENCE MEETING

Facts Learned by Busy Homestead Workers Passed Along for the Profit and Pleasure of Others, to the End That Farming May Be Made Easier and More Productive.

INVITATION TO A GOOD MEETING.

To the Editor:

The annual meeting of the Iowa Agricultural Experiment Association will be held at the Iowa Agricultural College on Tuesday, January 6th. As secretary of this association I take great pleasure in extending an invitation to the readers of The Iowa Homestead. This young association has already 900 members engaged in co-operative experimental work. The results of their work during 1913 will be summarized and presented at this annual meeting and I know after making a close examination of all reports sent in that there will be some very interesting things come up for discussion.

In addition to receiving the reports a full program will be carried out and addresses by such men as Prof. C. F. Curtiss, Geo. M. Allee, L. C. Burnett, Mr. E. J. Mildenstein, M. L. Mosher, C. W. Hunt, F. E. Jamison, W. A. Posey, Prof. H. D. Hughs, A. A. Burger and Prof. C. B. Norgord, of Madison, Wisconsin. I desire to call special attention to the fact that Professor Norgord has been connected with work of a similar organization in the state of Wisconsin and he will give the results of his experience during the eleven-year period since the Wisconsin organization was established.

The program as already outlined gives a good deal of attention to the growing of alfalfa and also to the hog-cholera problem because several county agents have made great headway in the fight against this disease. We ought to start out the new year with twice our present membership. Such an addition as this would mean much to Iowa's agriculture because the farm experiments that are being carried on by the members lead to much better results and to more definite conclusions than if the same kind of work were carried on at the experiment station. John Buchanan.

Iowa Agricultural College, Ames, Ia.

LET THE FARMER ALONE.

To the Editor:

I am one of these old timers and not so quick to see into this boosting and tax raising as many others are. I believe in letting the farmer alone. Keep away with your state aid; keep away with letting every Tom, Dick and Harry tinker with the farmer's business?

It all has to come out of the farm ultimately. We have one state road running across our township established a year ago and taxes raised 20 per cent. Some city guy took it in his head that the road should be changed a mile south and a slough forty rods wide graded, a railroad crossed and finally the whole length of about three miles graveled at the expense of the taxpayers.

Now let me ask where the notion for such expenditure originated. Can anyone say it originated with the people, the taxpayers? Never. Did such a move originate with the newspaper men? Never.

Where did it originate? An open question. I see in the Minneapolis Tribune of November 9th, a Minnesota school superintendent bewailing the solemn and monotonous condition of the farm children, and he says they have no time for play, and never smile or get a smile from their parents. I am a bachelor, thirty-seven years old. My parents came to this country in 1881 and went through the hardest of hard pioneer life, penniless, with a family of eleven children. When they were situated so that they could possibly commence to live, they died leaving the farm with the debts. I thought I had worked too hard to run, and tried my best, with a younger brother, to stay. All the rest of the family went. I held out bravely batching, but some one of the others got it into his head that the cattle, horses and what was on the place, should be sold and he said, "Rudolf, (the younger brother), can come to us and you (meaning the writer) can make your living working."

Just as he said, so it was done. The property was advertised to be sold and the farm was rented. The result is I have worked out for nine years. None of us are so well off that we can say we are out of debt. I am owner of the old farm, but we owe $1,650 with interest having accumulated in nine years, working out, and, partly by venture, in buying and selling enough to pay down on the old home place I can hold it and hang my hat on a nail and call it home. Smile! Could you? I want to say one thing and that is leave the farmer alone!

Ward Coshington.

Watonwan County, Minn.

WART ON COLT'S LEG.

To the Editor:

I see in last week's Homestead that some one has a colt with a bleeding wart on its leg. I think if he will apply butter of antimony on the wart it will take it off. Some years ago I had a horse that had a wart just below the knee cap. I took him to a veterinarian. He called it a rose cancer wart, and the first thing he did was to cord it. Then in a week or so he cut it off. Gee! How it bled. He then cauterized it with a hot iron, but it soon came back as bad as ever. A neighbor told me to apply butter of antimony, which I did, and it took it off, and it healed up and haired over nicely, and never came back. I have tried this remedy in two other cases, and it effected a cure in both cases.

W. J. Wood.

Montgomery County, Iowa.

MEASURING CORN.

To the Editor:

In a recent issue of your paper you ask for opinions and methods of measuring corn. I live in the corn belt of central Illinois, where frost seldom nips the corn, and a great quantity is measured on the rule 3,888, being that many cubic inches in a bushel. Very seldom does it weigh, when shelled at fifty-six pounds, as much as it will measure, usually losing from five to ten bushels on 100. On the other hand, we sell corn on cob by weight, seventy pounds to the bushel, but it usually overruns when shelled.

Cass County, Ill. Willis T. Davis.

SETTING CORNER POSTS.

To the Editor:

I have a new way of setting my corner posts which is the strongest I have ever seen, and can recommend it. I have put two sets of Page fence stretchers on it, and have failed to shake it. Set end post four feet deep, and brace post three feet deep, eight feet from the end post. Now take a 4x4 and make a notch in both the end and brace post two and one-half feet above the ground to fit this 4x4 into. Nail it slightly to hold it in place. Then take a smaller post (sawed) and set two feet deep, half way between the end and brace posts, and long enough to reach to the under side of the 4x4, which should be notched one and one-half inches on the under side of the 4x4 to receive the top of the sawed post. Nail top side of the 4x4 to the top of sawed post with two twenty-penny nails. Then take good guy wire (double) from the ground at the end post to the top of 4x4 at the top of sawed post or center post. Twist wire until it becomes taut, then take a like wire and fasten to the sawed post at the ground, and run it around the brace post four inches above the 4x4. Twist taut and I will guarantee that no fence stretcher made will even loosen it so you can see any crack in the ground around the posts, for if one part of it moves the least bit, the rest has to move with it. In soft soil this is the only brace I ever saw that would. Willis T. Davis.

Cass County, Ill.

GASOLINE ENGINES IN COLD WEATHER.

To the Editor:

At this time of year gasoline engines always give the farmers more or less trouble in starting, but when run a short time after started they heat up and when proper temperature is reached the good results are again obtained.

When adjusted for conditions an engine will start almost as easily twenty degrees below zero as in warm weather.

If your engine has a carburetor prime it. If this fails, note the position of the needle valves, open it, start the engine and, when properly working, turn back to its original setting. If this will not start the engine saturate a piece of cloth or waste with gasoline and hold over the intake valve. With the engine in proper working condition this will always start it. However, should this fail, heating the carburetor with warm water and pouring warm water into the cooler (should the engine be water-cooled) will also be found helpful. When the engine uses no carburetor, but some form of mixing valve, the same operation may be resorted to and where the type of valve permits it, squirt in a few drops of gasoline with a pruning can which will prove very effective.

When the weather is cool the oil becomes non-fluid and will not flow fast enough unless a mechanical lubricator is used; however, very few gasoline engines have a mechanical lubricator, so the opening for the oil must be made larger.

Where the ordinary lubricator is used the feed may be adjusted by the upper adjusting screw, under ordinary conditions, but when the weather drops down to zero, or lower, it is best to leave the lubricator at the original adjustment and warm it until the oil flows freely.

Never use an engine unless you are sure it is receiving enough lubricating oil because without it, you are running the risk of ruining the piston, cylinder and rings, three essential parts which must fit tight and the results of their cutting out will ruin the compression.

Never heat the lubricator or carburetor of your engine with an open flame. While some people resort to heating the carburetor with a blow-torch, it is, nevertheless, very poor practice, and if continued its results are always serious sooner or later. People are very often burned to death while attempting it, so heed the experience of others.

It is all right to run a water-cooled engine without water for a short time at light work, as pumping water, etc., when the weather is cold, but the engine should be watched to prevent the possibility of overheating and when long or heavy runs are necessary always supply water and don't forget to drain when work is done. A good anti-freezing compound may be made of two parts water and one part alcohol, which proves very effective under all average conditions.

"THE EXPERIENCE MEETING" has been made a regular department and the co-operation of every Homestead reader is requested. Already the letters from farmers are pouring in, but more are wanted. Write us your experiences in any line of farm work, how you increased your yield, how you lessened your labors, how you added to the family comforts or pleasures. Your name will not be printed, if you say so, but sign your right name and give your address. "The Experience Meeting" will be the forum of the farmers of the grain belt. Send us a letter today.

FINDS SORGHUM PROFITABLE.

To the Editor:

One of the best feeds coming under my observation is early amber sorghum. It is particularly good until the latter part of January, after which time I believe it deteriorates in feeding value.

In August before the fall rain and after the pastures become short, in order to prevent the stock from losing flesh, some feed is necessary, particularly if the pastures have been kept close all the season. Nothing is better than a few armfuls of sorghum freshly cut. This produces more feed to the acre than green corn, while not affected as much by the dry weather. A person does hate to commence winter with a bunch of thin stock.

After twelve years' experience in feeding this I am more than pleased with the results every year and wonder why every one who has only a cow and team does not plant at least a few rows in the corner of some field, or on a lot, one planting if not more.

In all my experience I only lost one animal from eating too much and I have fed all they would eat. That one loss was due to changing feeders when the stock was not used to the feed, the second person feeding too much. In feeding sorghum green, one should not feed calves and hogs in the same lot for, as in the case of green corn, the calves might eat some of the stalks chewed by the hogs, which is fatal to calves.

Another precaution to observe is to have an extra good fence around the field in which the sorghum is planted, as in a very few minutes stock can eat enough to fill them. At present I have a bunch of Angus calves that I am feeding almost a peck each, twice a day after the feed has been run through a feed cutter. With this I am mixing ground corn and cob meal. They clear up the sorghum save a few coarse pieces.

I feed the seed with the stalk, but some clover hay in connection, for I do not think sorghum a "complete" feed, though stock will live upon it. While feeding in the milder weather, feed in the pasture, but never in the same place, because, while it does not hurt the grass, it saves hauling the manure.

In the fall just before frost a little, if the seed is black, I generally cut with a corn binder, if possible, but at times it has been blown down or was planted too thick so the binder could not handle it. Then I cut with a corn knife. In either case, I shock like corn, but in shocks twelve hills square, which this year cost me twice as much as corn sixteen hills square, part of the field being so heavy that I could not use the binder. When the crop is standing, the cost of cutting by hand is but little more than corn besides coming after the corn is cut.

It makes a good crop in a wet year, while in a day, one like the past, it is certain to make a crop, in spite of the fact that corn failed to make one-half the usual yield.

In making plans for next year's crop include, at least, an acre of sorghum. For my part, I shall continue to raise it until I can find another feed that will produce as much feed regardless of weather conditions.

V. E. Lawrence.

FAVORS WIDE-TIRED WAGONS.

To the Editor:

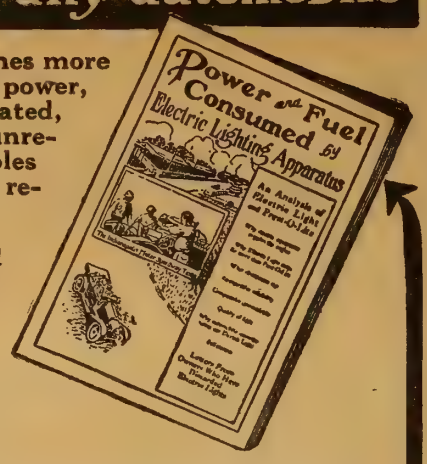
I noticed in the paper the other day that a man had hauled two tons on a wide-tired wagon that pulled a great deal harder than the two tons did on a narrow-tired wagon. He was right; but if all the farmers and teamsters that haul loads would use four-inch tires, and not allow a load hauled on a narrow-tired wagon, we would have the nicest roads one could travel on. It would be quite an expense to change, but not much more than the extra road work costs us.

Benton County, Ark. Wm. Booth.

Read This Free Book
about all lighting systems before you buy any automobile

Electric light costs five times more than gas light, robs a car of power, makes it heavy and complicated, eats up gasoline and tires, is unreliable, and has many troubles that only a factory expert can repair.

This book proves it, and shows why. Let us send it to you free.



This book tells why automobile electric light costs five to ten times more to use than Prest-O-Lite, and gives the testimony of automobile owners who have used both systems.

It tells why electric lighting makes a car heavy and expensive to operate, robs the engine of power, cuts down the speed of the car and cripples it on the hills.

It gives a full report of the Motor Speedway Tests, showing that electric apparatus consumes **over 10% of the power and fuel** used in medium-priced cars.

It shows how you can test this matter for yourself.

It tells why people, who want power, light weight, low tire expense, low up-keep cost, greater efficiency, greater safety, and better light at less expense, should buy a car designed to carry gas lighting.

Are you an expert electrician?

This book shows why the average dealer—why even the average electrician—cannot give repair service on electric systems, and why, in case of trouble, you would have to depend upon a factory expert, hundreds of miles away.

It gives the statements of electricians and electrical engineers who use and prefer Prest-O-Lite on their own cars.

It gives sample pages from the Instruction Books for the care of electric systems, so you can see what you are bargaining for before buying a system which needs more expert and more constant attention than the automobile engine itself.

It shows why Prest-O-Lite gives better practical road light than electricity.

Equal convenience at less expense

This book tells how gas can be burned in all five lamps, and lit and extinguished from the driver's seat, with all the convenience of electricity, with only a small fraction of the expense, and is ten times more reliable.

It tells why automobile manufacturers use electric lights against their wishes and against their better judgment.

It discusses self-starters, of all kinds.

It gives a mass of letters from owners of all kinds of cars, who have had electric lights **torn out of their cars**—tells their own experience in their own language.

Automobile owners everywhere have been waiting for this information. It has taken us a long time and cost us a lot of money to get it. But it costs you nothing. It is free—yours for the asking.

No matter what car you have in mind, no matter what equipment you're thinking of, read this remarkable book first.

It isn't "technical"—we have nothing to hide. It is written in plain language—easy to read and understand. And it makes the whole subject clear as daylight.

If any dealer is trying to saddle an electric system on you, READ THIS BOOK, and you can then put him into a corner and make him admit that gas light is the only sensible light for automobiles.

The safety of your family

Don't stake the safety of your family on lights that may fail instantly and without warning at any time. Prest-O-Lite is the one lighting system upon which you can absolutely depend, on high-banked roads, slippery roads, rough roads—anywhere and all the time. If you don't know why, READ THIS BOOK.

Send us a letter or a postal, and we'll send you this free book by return mail.

Better tear out the coupon now, so it won't slip your mind.

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707 Speedway, Indianapolis, Ind.
Exchange Agencies Everywhere
(Contributors to Lincoln Highway)

The PREST-O-LITE Co., Inc.,
707 Speedway, Indianapolis, Ind.

Send full information on all lighting systems and report of Speedway tests to

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Send for Free Book on Cleaning and Grading Grain. Then ask for size machine you want, sending $1.00, and I'll ship 1914 Model Chatham, freight prepaid, with special screens and riddles for all Grains, Grasses and Weed Seed where you live. Give it a month's hard test. If not satisfied, send it back and get your $1.00. If satisfied, pay me any time before next October.

The "Chatham" handles all grains and grass seeds; takes out weed seed; separates mixed grains; leaves big, pure seed. Over 300,000 Chathams in use, and every owner satisfied. Write a postal now for my FREE copyrighted book. "The Chatham System of Breeding Big Crops," description, price, terms, etc. Address nearest office.

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4-Cycle. Weight 190 lbs. Does all work a 1,000-lb. engine can do. 10-year guarantee. Also 6-h. p. up to 20-h.p. Special Heavy Duty Engines. Get catalog and "trial offer."
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Hardy's Hog House

"It's Portable," made of the best Corrugated Galvanized Steel with an all-steel frame. Guaranteed.

Protects the Sows and Saves the Pigs!

A warm, dry, sanitary, ventilated house. Made in three sizes. Pays for itself every season. Will last for years.
Write for our Price!

Hardy Manufacturing Co., 305 Union St., Pendleton, Ind.

FARM FURROWS
TURNED BY A PRACTICAL FARMER

Turn the lens of your faultfinder upon your own life for a little while now and then and you will not be so keen to keep it in operation all the time.

Carrying around with you all the time a grudge against somebody is worse than filling your pockets with dead rats and expecting to be welcome wherever you go.

Labor trouble is now the bane of the city working man. Just as the day-laborer begins to lay up some towards a home, he suddenly finds himself confronted with a strike, which may mean several months of idleness.

When religion is put on as a cloak it is apt to be rather diaphanous.

It is all right to let bygones be bygones, but sometimes, in spite of everything, they will stick to you like burs on a sheep, especially if they happen to be of the unseemly sort of your own making.

Courage is a great thing, but when it nerves a man to stand for his own folly it ceases to be a virtue.

Always having lived on the farm, I know not what it is to work under a boss, but I imagine it would not set well with me. Here on my farm my time is my own, and I am my own boss. Isn't it worth a great deal?

He who keeps his eyes open for something to do never looks long in vain.

Experience has convinced me that the six-inch flooring will last longer in the bottom of a wagon box than the four inch, but few lumber yards now keep a good grade of six-inch flooring.

When anything bothers them lots of men would rather swear at it than to mend it, and some of them do both, which is too great an expenditure of energy.

The occupation of just loafing around isn't anything like as enjoyable as many folks who have to work pretty hard are inclined to think it is.

There are many ways of losing money rapidly, but a sure, quick way is to buy a new top buggy and let it set out in the shade of an old apple tree. A fifty-dollar bill is soon dropped from its value.

An itching ear lends zest to the tongue of gossip.

We cannot help growing old, but, bless your heart, my dear, nobody is forced to grow sour.

The tongueless machine gives greater freedom for the teams, but often the machine does not "track" as well. The hillside farmer, particularly, finds the tongueless feature not to his liking, as the wheels must be chained to act as a brake when going down hill, if the machine is not in operation. Somehow, I cannot get used to the riding plow that is without a tongue.

The frequent use of the pronoun "I" indicates a lack of ideas.

You cannot cool anger by the use of hot words.

When the thinker and the tongue are disconnected the latter seems to be tireless.

Paint doesn't make the machine work any better, but we have got so used to a fine finish of paint and varnish on our farm machinery that I doubt if the manufacturer who would roughly paint his product could make many sales, however good the material used might be and however mechanically perfect its construction.

The folks who do the least to build up the neighborhood can always tell the most about its faults.

A family of woodpeckers may be a boon to an orchard, where borers are a pest, but they do no good to the siding of a building when they commence operations there. I have shot a few and shot at a good many in an effort to keep them from doing damage.

Old Bill Williams says that the cost of living seems to be a good deal higher than it used to be, but that he cannot see that it is worth any more.

The tango and the turkey trot are not in the published curriculum of any of the colleges so far as we have observed, but it is to be noticed that they are among the accomplishments of some of the students who came home for the holidays.

Who abuses his credit mistreats about the best friend he can have in this unfriendly world.

Every day cannot be a fine day, at this season of the year, so some of the sale makers strike it unlucky and must take a postponed date, for there is a sale for nearly every day in the week, except Saturday. It is the time of harvest for auctioneers.

A man may have the notion that woman's mind is shallow, but let him undertake to fathom it and he soon gets entirely beyond his depth.

The man who entirely sheds his boyhood upon reaching his maturity is not cut out to be a very successful parent, and as a teacher, he is sure to be a failure.

Boy thoughts turn to traps and guns now. Small boys are setting traps in every likely place and the larger boys hunt with guns at every opportunity. I can remember when my only expense bill was for ammunition. Of course, my parents looked after my clothes and board, but my only thought was of ammunition, and it was for this that my spending money went.

The church member who fails to attend meeting because the sermons are rather poor forgets the real purpose of the church services.

Hurry is a great destroyer of efficiency, and yet some men act as though it were the only way to bring things to pass.

Freezing weather makes work. For one thing, water must be emptied from everything where its freezing would damage. Sometimes a pump freezes becauses the vent has not been opened; perhaps water is left in the cooling jacket of the gasoline engine or in the radiator of the auto, and there are other ways in which water freezing can do a great lot of damage in a very short time. One must have his thoughts about him when freezing weather comes.

The man who seeks a country or climate that will make him contented is doomed to disappointment. Contentment is a soul grace, a spiritual acquisition, and no sort of environment can possibly produce it.

Where the field has been cleaned of its fodder, perhaps to fill a silo, the ground is being plowed as weather permits. I have seen much plowing being done where there is corn stubble, and in every instance, stubble has prevented good work. Each corn row is shown on the plowing by the stiff stubs. Has any reader devised a stub cutter that cuts the stub at the ground line? If so, I would like an explanation of how it is made.

What is the use of going around half dead all the time? Why not hurry up the funeral and be done with it?

There may be a better country than the one in which you are now located. But you are not very apt to find it through the florid representations of the exploiters of real estate schemes. It takes hard work, foresight, frugality, and some other solid virtues to produce success anywhere in the world. No doubt the exercise of these virtues right where you are would richly repay.

CURRENT EVENTS

NO SPECIAL convention of the republican party to correct the misrepresentation of the South and give due and proper recognition to the primary laws of the various states will be held, notwithstanding the valiant efforts of Senator Cummins, of Iowa, and other progressive republican leaders. At last week's conference of the national committee, in Washington, it was decided to make a change in the basis of representation in national conventions which will greatly affect southern states, give full recognition to the principle of the primary laws regarding such elections adopted by several states which provide that all delegates be selected at large and accept the principle that delegates properly accredited by state authorities shall be placed on the temporary convention roll. The convention plan was turned down by a decisive vote. The committee's action means that the party will not go so far as had been hoped in purifying itself of existing abuses, and yet, at the same time, will make a start which the progressive element hopes will be continued until the people have a more direct and decisive vote in party deliberations. Delegates elected at regular state primaries will be seated hereafter and not unseated in favor of caucus delegates as was done in Chicago in 1912. At the same time only a half loaf of reform is granted, though this is much better than the stone that might have answered the people's entreaties.

INDICATIONS are that the currency bill will pass the senate and be ready for the president's signature before these words are read. A test vote taken during the past week on an effort of Senator Hitchcock, of Nebraska (who has bolted the party caucus), to amend the bill, was decidedly in favor of the administration. The republican assaults upon the bill continued to the last. During the past week Senator Cummins, of Iowa, progressive republican, criticised certain features of the bill in an able speech. He sharply assailed the principle of bank ownership of the regional reserve banking system and bank control of it as found in the Owen bill, which is the democratic caucus bill. He took the position the country would not stand for this when it understood the facts and he advocated public ownership and complete public control. He held that the vast power of determining the distribution and use of the reserves "should be given to a body of men who have no ends to serve but the general good."

THE basis of representation in future republican national conventions (should the national primary bill fail to pass and future nominating conventions be held by any of the parties) is shown in the following resolution unanimously adopted by the national committee at its meeting in Washington last week: "Be it resolved, that this committee shall issue a call for the national convention to be held in 1916, to nominate candidates for president and vice-president in accordance with the following basis of representation: Each state shall be entitled in such convention to four delegates at large; one delegate for each representative in congress at large from any state: one delegate from each congressional district; an additional delegate from each congressional district in which the vote either for republican presidential electors in 1908 or for the republican candidate for congress in 1914 shall not have been less than 7,500 and that for each delegate chosen an alternate delegate shall be chosen in the same manner and at the same time, to act in absence of the delegate." This new rule will not be put into effect, however, unless prior to January 1, 1915, republican state conventions in such a number of states "as are entitled to cast a majority of votes in the present electoral college shall ratify the action." The matter is thus left undetermined for the present, the individual states to have the final say between now and a year from January 1st.

GOVERNMENT ownership of telegraph and telephone lines, the same as the postal service, is recommended by Postmaster-General Burleson in his first annual report. He says: "A study of the constitutional purposes of the postal establishment leads to the conviction that the postoffice department should have control over all means of the communication of intelligence. The first telegraph line in this country was maintained and operated as a part of the postal service, and it is to be regretted that congress saw fit to relinquish this facility to private enterprise. The monopolistic nature of the telegraph business makes it of vital importance to the people that it be conducted by unselfish interests, and this can be accomplished only through government ownership." It will be recalled that Postmaster-General Hitchcock made a similar recommendation, thus bringing himself under the displeasure of President Taft, who was not favorable to the movement. President Wilson has not made his opinion public on this matter, but the movement is gaining headway, as is evident from the fact that the last two postmaster-generals, one a republican and the other a democrat, recommended it.

AN INTERESTING political campaign is being waged in Alabama, where Richmond Pearson Hobson, the hero of the Merrimac during the Spanish-America war, and Oscar Underwood, chairman of the ways and means committee in the house, are contesting for the United States senatorship. Mr. Underwood is, without question, the more able of the two men and with his long and honorable career in the house is well qualified to sit in the senate. He is looked upon as a conservative, however, and is known to be opposed to the principles of strict prohibition, which Mr. Hobson is championing. In fact, Mr. Underwood has been quoted in the newspapers as saying: "If prohibition continues to be injected into democratic policies, either prohibition will be ground to dust or the democratic party must die." Mr. Hobson made a spirited reply to this in the lower house of congress recently, arousing the galleries to great enthusiasm, defending prohibition with all his might and main. He charged that Mr. Underwood was the candidate of the liquor interests, bringing forth a fiery denial from his opponent. The South has experienced a number of strenuous political campaigns of recent years, with such men as Tillman, of South Carolina, and Vardaman, of Mississippi, as candidates, but it has been a long time since it has had a campaign more full of personal issues or more strenuous than the one now in progress in Alabama between Hobson and Underwood, both of them nationally famous.

THAT the R. F. D. carrier should be utilized to distribute mail in the small towns and villages from which his rural route emanates and that he should be paid by the hour, on the basis of an eight-hour day, are some of the recommendations made by Postmaster-General Burleson in his annual report. He says: "As rural routes emanate from practically all of the places where this village delivery service would be desired, the carriers should be used to make such deliveries as may be desirable and feasible to the residents of the villages. The compensation of rural carriers, however, at this time, is based on the length of their routes and to make them available for the service indicated their salaries should be based upon an eight-hour day. With this change these carriers could be used not only to supplement the general delivery service as indicated, but in many instances in the delivery of parcel post matter as well, thus obviating the necessity for additional horse hire for the delivery of the larger packages. The compensation of rural carriers should therefore be changed from a mileage to an eight-hour basis, and these carriers should be permitted to deliver mail regardless of distance from the postoffice or the corporate limits of the city or town." This matter will, undoubtedly, come up for serious consideration in the department during the coming year.

THE COW AND THE HOME.

"Where there is a cow there is a home," is a quotation worthy of being adopted as a slogan by every one who believes in the American farm home. The cow has paid the household expenses of thousands of homes for many years. The keeper of a store in a new settlement was but voicing what is true everywhere when he said, "Our farmers who keep cows always have money to pay their bills, what is more they no doubt have a better living and get more out of life than do those who try to live from the sale of hay and grain."

Naturally the kind of cows that are kept determines largely the kind of home the owner has. There are good cows and inferior ones. There are good homes and homes that are not particularly comfortable or inviting. Cows that make a profit for the owner certainly provide him with a better home and a better life. Usually the man who loves good cattle will love his home and family correspondingly more and will desire good things for his home. Good cows will pay the expenses of the boys and girls at school. Good cows hold the interest of the boy on the farm and in the farm home. The cows may well be considered one of the home producers of the nation.

Dr. S. J. Crumbine, secretary of the Kansas State Board of Health, asked the board to provide for a rural sanitary survey in Kansas. Recently the Indiana Board of Health made a survey of five counties and found some conditions of the farm homes that were as bad or worse than any to be found in the cities of that state. Doctor Crumbine desires to make the survey to see exactly what the average farm home is like. He purposes to pick some central Kansas counties that are typical of Kansas farm communities, where good, bad and indifferent homes may be found.

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DO THEY? In the hands of a clumsy, awkward man, one may break, but ninety-nine others DO NOT BREAK; and think of depriving the ninety-nine of a keen, deep-cutting axe to keep the one clumsy man from breaking his axe.

NO SIR! We make axes for men who appreciate deep-cutting axes. We don't believe anybody wants to chop with an axe shaped like a cold chisel.

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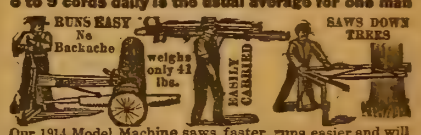

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LEGAL DEPARTMENT

SUBSCRIBERS who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention, inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail, should remit $1.00, addressed as above. All inquiries must be signed if they are to receive attention.

LAW QUESTIONS CONSIDERED.

DAMAGE FROM RENTER.

A Subscriber, Lynn Grove, Iowa.—I own a farm in Oklahoma with about twenty-five acres of alfalfa on it. I leased the farm for one-half of the hay it would produce. The renter took in thirty-five or forty horses to pasture on the alfalfa last winter, and his lease expires the first of next January. Can I recover from him half of the pasture money he received?

Answer.—The effect of pasturing the alfalfa land was to diminish the hay it produced and therefore you can recover damages for the injury done to the hay crop and also damage to the land if any was done.

DIVORCE AND ALIMONY.

A Subscriber, Clarks, Neb.—I have fallen heir to eighty acres of land in Nebraska. A deed is on record here in the court house, conveying the land to me during my lifetime, and then to my children. There is a deed and a will in the old country, which cannot be had till after my death. In case my wife sues me for a divorce, can she lawfully claim any of my property?

Answer.—If your wife sues for a divorce she will probably ask for alimony and if the court grants the divorce, the judge has power to award your wife alimony, and order you to pay her a certain amount every month, which you will be required to do. How much this would be cannot be told beforehar . It depends upon what the judge would consider just and equitable.

IOWA NEW ROAD LAW.

Mr. Floyd Brinton, Stuart, Iowa.—Can you give me any information about the new road law of Iowa, or advise me where I can get such information?

Answer.—You omit to state what particular information you wish about the new road law. It is quite lengthy, and covers a number of points. You can find it in the session laws of Iowa, 1913, pages 109 to 134, also 181 to 187, also 319 to 324. The book can be found in any lawyer's office and most justices of the peace have it.

LIABILITY ON NOTES AND MORTGAGES.

A Subscriber, Sidney, Iowa.—A and B were husband and wife, A owned about 100 acres of land, and B owned forty acres. They owed a joint note for $4,000 secured by a mortgage on all their lands. A died recently, and the note and mortgage will soon be due. (1) Will A's children have to sell enough of A's land to pay all the debt, or will B have to pay part of it? (2) A's children are all of age. If they wish to renew the loan by note and mortgage, would their husbands and wives have to sign the note and mortgage? (3) In case said husbands and wives would sign a note and mortgage, would they be liable in case the mortgaged land should decrease in value and not bring enough on foreclosure sale to pay the debt?

Answer.—(1) If the debt represented by the note and mortgages was in fact A's debt, the wife merely being surety and mortgaging her land as security, then the debt should be wholly paid from A's property, although the holder of the note and mortgages may proceed against all of the mortgaged property, but if it was the debt of both husband and wife, then each should pay a just proportion thereof. The matter ought to be settled amicably between the parties. (2) In case of renewal, the husbands and wives should sign the papers. (3) They would be liable, unless the contrary was expressly stated in the notes and mortgages.

PASTURER'S LIEN.

An Iowa Subscriber.—Does the law of Iowa give a lien on cattle and horses to a landowner for the pasture bill of such stock, or can the owner of the stock avoid the same on a plea of exemption or mortgage?

Answer.—The law provides that "livery and feed stable keepers, herders, feeders and keepers of stock for hire, shall have a lien on all stock property coming into their hands as such, for their charges and expenses of keeping, when received from the owner or any other person, subject to all prior liens of record." If charges are not paid the lien holder may sell the stock at public auction, after giving the owner ten days' notice in writing of time and place of sale and posting three notices of sale in three public places in the township, and out of the proceeds of sale pay his charges and expenses. As will be observed, the words "subject to all prior liens of record" would make a mortgage of the stock recorded prior to lien of the pasturer take precedence thereof, but a claim of exemption would not take precedence of the pasturer's lien.

VALIDITY OF DEED AND WILL.

A Subscriber, La Harpe, Ill.—A is the father of eight children, B, who is the youngest, had the care of his parents during their entire lives. A made a will giving his real estate and personal property to B. As the parents grew old, C, an older son, bought a threshing machine for $1,600, giving three notes for three annual payments of $533.33 each and A signed the last note as surety. C failed to pay the first two notes, and A deeded seventy acres of land to B, the deed consideration being stated at $3,500 and B gave his father a lease thereon for life. A put his will in an attorney's hands for safe keeping and it is still there. A died four years ago and his wife died two years ago. B paid the note that A signed as surety, after he got his deed to the seventy acres. Three of the heirs have brought a suit to set aside the deed on the ground that A made it to avoid paying a certain note. (1) Can A's will be probated? (2) Can the three heirs set aside A's deed to B? (3) Will it be necessary to have the will for proof?

Answer.—(1) A's will can be probated. (2) The deed of A to his own son for the seventy acres of land, can only be set aside by satisfactory proof that it was fraudulently made. (3) In a trial of the matter in court, the will will be important evidence.

VERBAL CONTRACT TO SELL LAND, NOT BINDING.

An Iowa Subcriber.—A asked B if he wanted to buy a certain lot of land and B said he wanted it, and A said, "All right, we will make out the papers, etc., later." Months have passed since said conversation, and nothing has been done. Can A recover interest on the value of the ground before the papers are made out, and the lot is cleared of implements belonging to A?

Answer.—There was no valid or binding contract made between the parties about the sale of the lot. Neither party can enforce the alleged sale of the lot, because the law requires all contracts for the sale of real estate to be made in writing and signed by the parties. A cannot therefore recover interest. He cannot compel B to buy the land, and B cannot compel A to sell it.

DEBTS OF DECEASED HUSBAND.

A Subscriber, Clarks, Neb.—A and B were husband and wife. A died two years ago leaving B and two children without any means of support. B earns a living for herself and children by sewing and washing. In case B should remarry or inherit any property, would she or her next husband be liable for A's debts?

Answer.—Neither B nor her next husband would be liable for A's debts.

LOSS OF MARE IN FOALING—DAMAGES.

A Subscriber, Baxter, Iowa.—In March, 1913, I bought an imported three-year-old Percheron mare. The certificate of her pedigree had a tag attached stating that the mare was bred on June 17, 1912, and due to foal on May 17, 1913. She did not foal till July 21, 1913. When she passed May 17th without foaling, I did not know when to expect it, so she foaled without attention and ruptured herself, and inflammation set in, and she was in such a condition of pain and misery, that I had to shoot her. If her foaling time had been known beforehand, she could have been saved by prompt attention. As it seems impossible that the mare could have been bred on June 17, 1912, what chances have I to recover damages from the party who sold the mare to me?

Answer.—Your chances to recover damages are not very favorable. The precise time when a mare will foal can never be exactly known beforehand. They are liable to run over or under the usual period, but not as much as in your case. However, you must have known that the mare was near the foaling time, and you were therefore somewhat negligent in not keeping a careful watch of her condition.

PROPOSE A MARKET COMMISSION.

In an address delivered before the Twilight Club of Fond du Lac, Wisconsin, on "The High Cost of Living, Its Cause and Cure," Governor McGovern discounted the theories that have been commonly advanced as the cause, such as tariff, increased production of gold and extravagance, and went back to the low supply and demand. "The fact of the matter," said the governor, "is that while our population has been increasing our production has been decreasing; while we have more consumers we have fewer producers of food products and fewer food products. Scores upon scores of agricultural counties show an actual loss of population, while our city of Kenosha shows an increase of 100 per cent. The problem of how to control this vicious tendency of the population cityward and restore the equilibrium between city and country is one of the really big problems of today.

"But what is the cause of the tendency cityward? Simply better opportunities for the young men and women. What is the remedy? Make the farm more attractive. And how can this be done? You find the answer in the words of Sir Horace Plunkett, better farming, better business, better living.

"Wisconsin has done much to promote better farming, but what is the use for a farmer to raise a large crop when he can get more money for a small crop?

"How shall we deal with the problem, how did we deal with the railroads and the filled cheese problem? By passing a few general laws and then placing their administration in the hands of a commission. The railway commission, the dairy and food commission have rendered Wisconsin valuable service and point the way for a market commission which shall enable the farmer to buy better and sell better."

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Every winter—when your team or engine is idle—you can clean up $600 to $1000 shelling corn for farmers all around you. Lots of hustlers with Sandwich Shellers make more than that. Figure your nice fat fortune in five or six years. Yet the Sandwich will mint you money for a life-time! *William Arnold, Red Oak, Ia., shelled 1400 bu. in 7 hrs. last Fall with a Sandwich 4-hole in constant use since 1868!*

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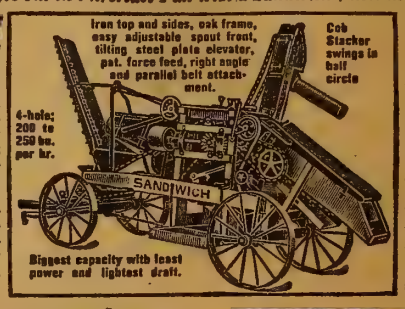
The world's first Power Corn Sheller was born in our factory before the civil war. Now most makers copy it—as far as the law allows. Others try to substitute. But all have failed. For imitation means limitation. Without Sandwich inventions they can't equal Sandwich performance.



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You will get them both from Farmers who hire their crop shelled. They've learned from boyhood that the Sandwich *no-choke screens* turn the corn out clean as a whistle—soft, sound or frosted. Then the corn grades highest. So Sandwich sales lead other shellers 300%.

FREE Sheller Book

Wherever you live, however much or little corn to shell, this Free Book shows a Sandwich Sheller to meet your special needs. It gives you the heart-to-heart facts on sheller construction and operation. A postal brings it postpaid. It's your first step. Write today.

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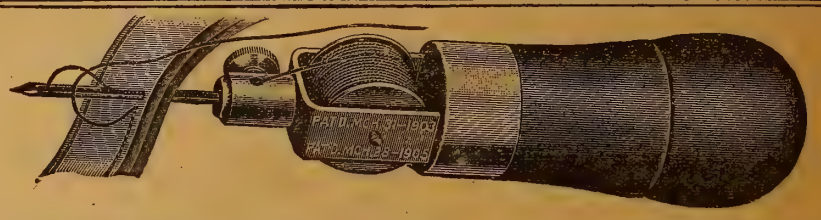

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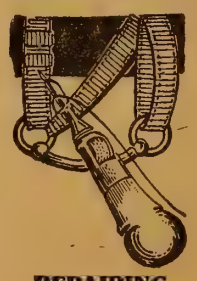
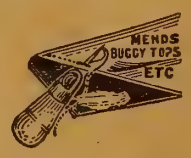


REPAIRING HARNESS



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WASTE LAND MADE PRODUCTIVE

How Thousands of Grain-Belt Farmers Are Restoring "Robber Land" to Cultivation Through the Medium of the Modern Stump Puller and Adding to Their Income Thereby.

IN THIS progressive day when farming has reached a higher plane than ever before, when the conservation of the natural elements of fertility and intensive farming on the most scientific scale are being preached on every hand, the successful farmer is he who reduces his waste land to the absolute minimum and who makes every acre yield to its utmost. The epic story of agricultural success in America would never have been written had it not been that the farmer, realizing the great waste from unused land, devoted himself to restoring to cultivation those tracts which were standing idle. To bring this about immense areas of swamp lands have been drained, other immense areas of arid land have been irrigated, still other tracts, known as cut-over lands, have been ridded of stumps which kept them from the plow. But the story does not stop with this. Small as are the fields and tracts kept from cultivation by a few stumps or by a mile or so of hedge, when taken individually, they aggregate an immense total. It is to the everlasting credit of the American farmer that he is seeing his opportunity and restoring this stump and hedge waste land to cultivation through the medium of the up-to-date stump puller

"Robber land" is the name applied to such waste land by the department of agriculture and the term is appropriate. Such land robs the farmer of an income which is justly his. Such obstructions rob the soil of those elements of fertility which would otherwise and far better go into the growing of crops. Such wastefulness robs the nation as a whole of a still greater per capita of wealth. "Robber land" it is, indeed, so long as a single stump remains to keep ever so small or ever so large a tract out of cultivation or a single stretch of hedge remains with its five to fifteen wasted rows of corn land on each side.

The problem is how to rid the land of these "high-priced boarders who never pay their board." It is more easy of solution than many farmers are prone to think.

On a previous occasion we called attention to the fact that the modern, up-to-date stump puller—made of steel, so as to obviate breakage, and requiring but one anchor stump, so as to avoid waste of time and make it practicable in every instance—was solving the problem and restoring many thousands of acres of "robber land" and waste hedge land to cultivation. Since that time, we are delighted to learn the good work has been progressing at a rapid rate. Not only are small areas being restored to cultivation, but so are immense tracts all too long withheld from the plowshare.

We have had the privilege recently of reading a number of letters from actual, practical farmers, not only in the grain belt, but throughout the country generally, who verify our claims for the modern stump puller. In many instances, father and son are doing the work without additional help, while in other cases farmers are paying for their puller and adding a tidy income by pulling stumps for their neighbors. There are instances of farmers getting together and buying a puller in common, so as to reduce the expense, and doing the work together, so as to make hired help unnecessary. Some of these letters are so intensely earnest and so thoroughly practical we take the liberty of printing a few herewith.

This from a Minnesota farmer: "Don't let willows have possession of your valuable land. Willows don't pay taxes; besides, willow land is among the richest soil a man has on his farm. I had several acres of land covered with willows 'as thick as hair on a goat's back.' I wanted it cleared and I could get it cleared for $35 an acre. Last spring I ordered a stump puller and that very same land was grubbed in a very short time by my hired man and a ten-year-old boy, with one horse."

This from an Iowa farmer: "If I had only known how easy it was to get stumps out I would have had a puller a long time ago. With my steel puller, two men and a boy, I honestly believe I could pull as much in ten hours as the common pullers would pull in a week. I expect to clear enough on every three acres next year to pay for my machine."

This from a Wisconsin farmer: "I have done very well with my machine. I have pulled over 1,500 stumps on my farm and now have a nice stand of alfalfa on the land in place of the stumps. After clearing my own land I pulled stumps for neighbors and earned $241 with it. I have made all the way from $7 to $10 a day with it."

And this from an Oregon farmer, out in the region of big trees: "It is given up here that I have the best puller in this country. It pulls stumps that are seven or eight feet across, four feet from the ground. I burst the very large ones. Last Saturday a neighbor came down to see me. I was hitching onto a seven-foot stump. He says, 'You ain't goin' to try to pull that.' I says, 'No, I ain't goin' to try, I'm goin' to pull it.' When we started and the stump rolled out he says, 'Why, that's no pull at all; I want you to come over to my place and pull a lot for me.' "

Such letters as these, written by farmers who have been face to face with the problem of waste land around stumps and along hedges, form an interesting chapter in the restoration to cultivation of waste and robber land. It is a story which we are glad to be able to present and which we illustrate with actual photographs furnished us by the Hercules Manufacturing Company, of Centerville, Iowa. With fertile grain-belt land producing fifty, sixty and even eighty and ninety bushels of corn to the acre, with bumper crops of wheat produced this year and better prices prevailing for all kinds of farm crops than have been known for many years, it behooves every farmer to see to it that every inch of his land is made productive and profitable. He cannot make a better start than to tear out the hedge which was all right when land was worth only $10 or $25 an acre, but which is an income-robber now, and tear out the stumps which prevent cultivation to all too large an area. He will then be practicing conservation in a practical way and adding not only to his own income, but to the wealth of the entire country: the granary of the whole wide world. He will put the world in debt to him.

HERE'S A "LUNKER" THAT IS GIVING WAY TO A SUPERIOR FORCE—A HERCULES.

Some Figures on the Importation of Corn

SOME more or less imaginative historians have regarded the civil war as having been fought to determine whether cotton or corn was king, says the St. Louis Globe-Democrat. Surely even a dozen years ago the man who should have prophesied that in 1913 the United States would be importing corn for the feeding of Americans would have been regarded as a dreamer, says the Brooklyn Eagle.

Yet a French steamship came into port recently with a cargo of 192,000 bushels of corn from the Argentine, and the news is that a number of other vessels are under charter to bring corn and other grains from Buenos Ayres. For some years in the past decade the total import of corn and corn meal has not totaled 3,000 bushels. The largest import in any one year was in 1909, when 228,276 bushels came in. Here is a single ship bringing from a single port on one trip about 90 per cent of that record-breaking importation during the whole of the year of 1909. The production of corn in the United States has always been in excess of the consumption, according to the records, about 3,000,000,000 bushels being demanded for the American market. For the first time, under the new tariff, we are actually drawing on the world's supply. That is an epoch-making fact. Its significance cannot be misunderstood. We are becoming more and more a manufacturing nation. It has not paid to raise corn in the East for many years. It is ceasing to be profitable to raise it in many sections of the West. Vegetables, fruits, eggs, milk and cream to feed factory employes are more remunerative. And it is the policy of the government to leave the channels of trade free so that our manifest destiny may develop normally. Big corn imports are only one incident of that general policy which after exporting lands have had a chance to raise new crops, must materially reduce the cost of bread stuffs for our mechanical workers all over the country.

Your Interests Demand

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

EARLY TOMATOES.

A South Dakota (J. E. C.) gardener writes to ask whether tomato plants grown inside, started early, will ripen fruit any earlier than seed sown in the garden. His experience seems to indicate that there is not much difference in time of ripening.

This writer's experience certainly warrants the claim that by starting plants in the house, or hotbed fruit may be secured two weeks before garden plants produce.

But the point to notice is this: Hotbed plants must not be transplanted to the open garden until warm weather comes. Many inexperienced gardens make the mistake of getting them out too early because the plants are large. If they are set out while the weather is chilly they will be stunted so that it takes them weeks to recover. And in that case it might happen that seed sown in the garden at the earliest time of real tomato weather will give as early fruit as the checked plants.

We have learned, by some costly lessons, to hold the plants in hotbed until the chilly season is over. No matter if it runs late into May, and if the plants come into bloom before you can transplant them. There are several methods of holding plants in good condition so that they may be transplanted without injury. When they are grown thickly in the seed bed, every gardener knows, of course, that they have to be transplanted when they have the fourth leaf. My plan is to set them about two inches apart each way. In that way they will grow stocky, and strong. Remember to lift the sash in warm days to harden them.

Then when they get to be four to six inches tall transplant into tin cans. Take quart cans, and cut out a square piece in the bottom, the top having been all removed, to leave a smooth edge. Take a piece of lath two inches long and put over this opening in the bottom; fill with rich earth and set one plant in each can. Pack these cans so filled as closely as possible in your hotbed. Give plenty of water, and harden by removing glass as long as necessary. No matter if they get to be a foot tall, bloom, and set fruit. When you come to transplant, press upon the piece of lath in bottom of can, and the whole lump of earth will come out without disturbing the roots.

All this is some work, but it will accomplish the end. You will get early fruit instead of using cans; many gardeners use flats for transplanting. The flat is a shallow box about one foot by two. It should be deep enough to hold about three inches of earth. Set the plants in this about four inches apart. Then when transplanting to garden the roots will be found to nearly fill the whole space and by cutting evenly with a trowel the plants may be moved with very little disturbance.

It is a common thing for some of the earliest specimens to be lost by rotting. Weather conditions have something to do with this trouble. As a rule, it is not a heavy loss, and, while it is possible to control and prevent by spraying with a solution which will destroy the germs, the game is not worth the candle. In other words, the cost of the spraying will be more than the saving on the fruit.

But you can surely get early tomatoes by starting plants in February and handling them in a proper way. However, there will be no gain, no success by starting seed in a window box, and never transplanting to make them stocky and strong. They will, in that way, grow up weak and spindling and valueless.

PLANTING EVERGREEN SEEDS.

A Kansas reader of this paper writes to ask how to plant seeds of the conifers and make them grow.

This work is easily done, but it requires care and attention to detail. They cannot be handled successfully as easily as the seeds of the deciduous trees. With the ash and box elder and maple, all you need is to pick the seed and plant it in the garden and germination is as sure as with peas or beans.

With evergreens you should pick the cones just before they ripen enough to scatter the seed; spread them out upon a paper in a dry room; near a sunny window is the best place. In a few days of sunny weather they will open, and then the seeds may be shaken out.

Having the seed in hand take a shallow box and put in it a layer of damp sand, a half inch thick. Upon this sand scatter the seed. Then spread over this another half inch of sand. Then put it out of doors to remain during the winter. The freezing is an important preparation for germination. Put it in a secure place, where no chickens can reach it and no mice or squirrels, for they are very fond of the seeds to add to their daily rations. Birds also will eat it greedily if they can get at it. In planting, which should be deferred until settled warm weather, the last of April, or even May, be careful in all your operations. The seed must have been kept moist until ready to plant.

Prepare the bed by mixing a quantity of sand with the top soil. The first three inches of the soil bed should be half, or at least one-third, sand. Mix it thoroughly. When the surface is well pulverized and leveled sow the seed either in drills or broadcast, but in either case be careful not to sow too thickly. The crowding of the plants will develop a weakness which will cause the death of many of them. Cover the seed lightly—a quarter inch of sand sifted over will be about right for seeds of the spruces. Pines having larger seed may be covered a little deeper. After planting sprinkle well so as to wet thoroughly. Now have prepared a lath screen, large enough to cover the entire bed. The spaces between the lath should not be over a half inch wide. So rest this screen upon posts at the corners that it will be raised six inches above the surface. The way in which you place this screen is important; let the lath run north and south. Then the sunlight which strikes the seed bed will be continually shifting as the sun moves along and no spot will get the heat for very long.

Now it is a part of your work to maintain a proper degree of moisture, and if natural showers fail you must supplement with your sprinkling pot. Always water in the evening and saturate the bed. A little sprinkle which just dampens the surface is worse than nothing. If you do a good job, once or twice a week is enough if you have a good screen, and if the weather is seasonable. But be sure that you do not let the seed dry out; to dry out spells failure. Remember the natural condition in the forests, for there the seedlings come in perpetual shade. Any mountain climber notices how the trees prevail upon the northern slopes, while the south slopes are nearly bare; and this fact is explained by the shade and moisture upon the north, and their absence upon the south side.

After a month the seedlings should begin to show in your well-tended bed. They will be small and delicate looking at first. Though destined to be forest trees, at the start, they are anything but robust. Keep the soil stirred loose, but be careful about disturbing the seedlings. The first season's growth will not be over two inches. In the fall mulch with fine chopped straw so that the little trees will be covered, but not bent over. The second year still keep the screens over, but do not remove mulching.

The engraving shown is that of a beautiful Short-horn heifer and a judging class at the farmers' institute at Farnam, Neb. This heifer was given as a prize to the best judge. She was donated by Mr. Crossgrove, of that place. He is shown holding her. Mr. Crossgrove sells Short-horns at auction on March 11th.

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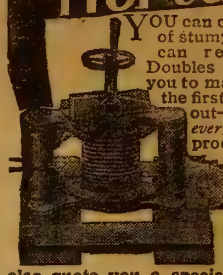

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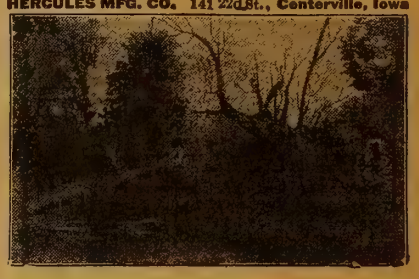

There is one factor that statisticians do not keep in mind when they estimate the value of farm crops. Reference is made here to that part of the grain that is used for maintaining the work horses and all the breeding stock. To say that a state raises 300,000,000 bushels of corn and that it is worth 50 cents a bushel does not lead to the conclusion that the farmer is going to realize $150,000,000, and yet that inference is always carried with such a statement.

"Where did pop corn learn to pop?" asks the Minneapolis News. You say it never learned and that it always could pop? Well, then, how did it find out that it could pop? Nobody would ever imagine from looking ot stubby, prickly ear of pop corn, compact and orderly, that it could contain the riotous spirit of a popper full of popping corn. The wonder is that the pop corn suspected itself of any such potential jollity. A litle warmth, a little judicious fondling and it pops—it bursts out of itself into a dancing, leaping thing, light as a laugh and gay as fun, white and beautiful and good to eat.

Manufacturing Hog Cholera Serum.

Science Reduced to Terms of Common Understanding as Applied to the Saving of Our Hog Population.

By W. H. Williamson.

THE manufacture of hog-cholera serum and virus is, to the layman, more or less of a mystery. To those who have a daily opportunity to visit a serum plant the process seems very interesting and comparatively simple. The most evident features of the process are the absolute economy of animal life and by-products and the absolute sanitation that mark each step of the several necessary operations.

The swine used in a serum plant may be roughly divided into three classes. 1st, animals having hog cholera in a virulent form; 2d, hyperimmune animals from whose blood stream the serum is obtained; 3d, test hogs which are used in determining the efficiency of the serum.

Hogs affected with hog cholera in a virulent form are either purchased, or are produced by injecting virulent blood into the veins of a healthy animal. These hogs are ultimately killed and bled in the following manner: The hog is first suspended by its hind legs with its head hanging downward. The back of the animal rests in a trough-like support erected parallel to the wall of the killing room. Its head is made fast by means of a running noose slipped over its under jaw and made fast to the back of the supporting frame. In much the same manner the fore legs are secured so as to prevent their interference with the operation of bleeding.

The animal is next carefully washed and the under side of its neck is carefully shaved. The point of entran of the killing knife is also carefully disinfected. All knives and utensils of every kind which are to be used in the bleeding operation are carefully sterilized or treated with some strongly anti-septic solution. The hog is now considered ready for killing.

The blood or virus, as it is now called, is collected in a sterilized glass container. Great care is taken to prevent outside contamination from entering in the form of dirt, dust, or foreign organism of any kind. If such contamination occurs the virus is said to contain mixed cultures of various organisms and is unfit for use in the production of immunity. As the flow of blood ceases the container is carefully sealed and placed in a dark refrigerator until some necessity arises for its use.

The bodies of the animals killed in this operation are cut open with the knife and a post-mortem examination is held. This post-mortem examination is utilized as an educational meeting. Interested farmers, breeders and veterinarians are thus afforded an excellent opportunity to study the various post-mortem symptoms of the disease. They soon learn to recognize ulcers, hemorrhagic spots, friable (easily punctured with the finger) spleen, "turkey-egg spots" on the kidneys, enlarged lymph glands, etc., as more or less reliable indications of the diseased condition following hog cholera infection. By means of these clinics the layman secures much valuable information about hog cholera. This knowledge is at once scientific and practical. It gives him some idea of the principles governing the use of serum and prevents him being imposed upon by "worm experts" or salesmen for any unreliable brand of hog cholera serum, or half-informed veterinarian practitioner of the so-called "rough and ready" type.

After the post-mortem examination has been performed the carcasses of the virus hogs, together with all offal and body discharge are consigned to the rendering tank. Here, great pressure and extreme and long continued heat render the entire mass free from living disease organisms. The by-products evolved from the rendering tank consist in soap grease, tankage and fertilizer. The grease goes to the soap manufacturers while the tankage and fertilizer are used locally or sold upon the general market. There is absolutely no danger of spreading disease through these by-products. They have been sterilized.

Hyperimmunity or hyperimmune animals are produced in this manner: A certain amount (dependent upon the weight of the animal to be treated) of carefully tested serum is injected under the skin of a normal, healthy hog. This is followed by an injection, made in like manner, of a small amount of weakened or attenuated virus. This weakening of the virulence of the organism is accomplished by heating the virus to a comparatively high temperature for some little time. The animal is now said to develop an "active immunity." If serum alone is injected the animal is said to possess only "passive immunity." That is, the animal treated did not have anything to do with the procuring of that immunity.

No diseased condition is produced by these two injections. This, at first thought, seems strange, since disease organisms were introduced into the animal's system. However, the specific antibodies found in the serum injected counteract or overcome the action of the disease-producing organisms contained in the weakened virus injected at the same time. The injection of even a small number of dead and weakened hog cholera organisms, however, does tend to incite the body of the hog to the production of excessive numbers of antibodies for these organisms; therefore the animal treated takes an active part in the production of immunity.

Some ten days later the efficiency of this active immunity is tested by a subcutaneous (under the skin) injection of from two to five centimeters of fully virulent blood. If no unfavorable reaction occurs, the last step in the production of hyper or extra immunity is taken. This consists in the intraveinous (into the veins) injection of five cubic centimeters of virulent blood to each pound of live weight in the animal treated.

The amount of virus used in the case of a 200-pound hog would amount to nearly a quart. The point of injection is the large ear vein. There are two reasons for selecting the ear for such injection, i.e., it is the most remote and is most readily accessible for the operation. A hollow needle is inserted into the vein and by means of connective tubing and a large rubber bulb the virus is gradually drawn and forced into the blood stream of the hog. The normal blood pressure of the animal is thus vastly increased and a small percentage of the animals die as a direct result of the operation. The vast majority live and at the end of about ten days may be considered as hyperimmunes. They are now ready to produce serum.

The serum is prepared by removing the corpuscles and any other coagulating material from the blood of the hyperimmune hog. This is accomplished by passing the blood through an unglazed porcelain filter under pressure. To secure the blood it is necessary to place the hyperimmune in a crate elevated upon a wheeled standard. The hog is carefully strapped down and the crate is shortened to the exact length of the animal by means of an adjustable end door. The tail of the animal projects through the end of the crate. It offers the most convenient point from which to draw blood with little or no danger of contamination and with little inconvenience to the operator.

The tail of the animal is carefully shaved and treated with a disinfecting solution. Its end is then snipped off, and, with little pain to the animal, five cubic centimeters of blood for each pound of live weight are drawn off into a sterilized glass container. The mouth of this container is covered with a thin sheet of sterilized cloth which has been moistened with distilled and sterilized water. This moist covering prevents the entrance of foreign organisms, dust or any other form of outer contamination. The end of the tail is admitted into the jar through a small slit cut in the cover cloth.

Several sterilized glass beads are shaken about in the container while the blood is being drawn and the fluid is thus prevented from coagulating. When properly filtered, tested and preserved from the growth of foreign organisms by means of an addition of a one-half per cent solution of carbolic acid the serum is ready to be placed on the market. It is now hog cholera serum of the highest efficiency.

After the initial bleeding the hog is turned out into the feed lot to regain its normal flow of blood. The end of its tail has been carefully cauterized and further loss of blood checked by the application of a catgut tie. When fully recovered the animal may again be bled in the same manner as in the previous operation. This bleeding operation is usually repeated three or four times according to the natural recuperative powers of the individual, due time being allowed between each operation for such recuperation to take place.

If, after these four operations, enough of the original tail length of the animal remains to warrant further bleeding operations the hyperimmunity of the animal is brought up to standard by an intraveinous injection of four cubic centimeters of virus per pound of live weight. The animal may then be bled once or twice more in the same manner as in previous operations.

The beautiful scene shown above was taken on the farm of E. W. Crossgrove & Son, Farnam, Neb. These gentlemen have a section, and on it they maintain one of the good Short-horn herds of the country. They will have a public sale March 11th.

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

WINTER EGGS.

There is such a thing as overdoing in kindness to fowls. All too often mistaken coddling defeats the aim in view. We have an example of this in a letter from an Iowa woman who signs herself "Farmer's Wife."

I am a farmer's wife and I am getting more interested in poultry raising, and especially interested in what is said in this paper. I have 300 hens and pullets, the pullets are May and April hatch. Would you fully explain to me what to do and what to feed? I keep Black Langshans and Rhode Island Reds. We are getting only eight to ten eggs a day. My henhouse is frame, thirty feet long and eight feet wide, facing the south. It is weather boarded and plastered, has three windows, one of which is covered with canvas. There is a long shed on the east end, in which the water trough is kept. I feed them all the corn and wheat they will eat, keep oyster shells before them all the time, give table scraps and all the milk, both sweet and sour, that they will drink. Also beef meal which I feed in soaked wheat. The corn is scattered in clover hay. They are healthy, and their combs are red. These hens have free range, and get plenty of grain with the stock.

"Farmer's Wife" has good winter layers, a good poultry building, a variety of good feed and is putting energy and enthusiasm into the work. On the other hand, the space is too limited for so many hens, and if that heavy feeding continues without a super-abundance of exercise, there will probably be adverse reports of that flock. If the long shed mentioned can be utilized for a scratching shed, after the fowls must be confined, the space might do, though a hen should really have at least five feet of floor space. About grit—do they have access to it? Also is it well to give charcoal, and especially when the fowls are so heavily fed. This is what a flock of twelve pullets did at Cornell: Averaged eighty-two eggs each during their first laying year. Another lot of fifteen averaged 236 eggs. One White Leghorn pullet, 457 eggs in two consecutive years. The winter grain ration was composed by weight, of sixty pounds wheat, sixty pounds corn, thirty pounds oats and thirty pounds buckwheat. The summer grain ration was the same, only the buckwheat was withheld. All was fed in deep litter. A dry mash, composed of corn meal sixty pounds, wheat middlings, sixty pounds, wheat bran, thirty pounds, alfalfa meal, ten pounds, oil meal, ten pounds, beef scrap, fifty pounds and salt, one pound, was well mixed and kept in hoppers. The fowls had access to this mash in the afternoon only. In addition, an abundance of succulent feed was given—sprouted oats, cabbage, beets and other green feed. It should be remembered that green feed does not necessarily mean succulent feed. Our correspondent can take this as a basis, and work from it to fit her own special needs. The milk she mentions is good, both as to furnishing protein, and promoting health. Less beef scrap may be used when the flock have access to a liberal supply. Fifty hens rightly cared for will produce more eggs than 300 hens in one flock, especially if crowded. Any successful poultry keeper will tell you the story of the experiment stations—variety of feed, sanitary surroundings and attention to details.

FARMERS NOT RESPONSIBLE FOR THE HIGH PRICE OF EGGS.

A dollar a dozen for eggs is now threatened in New York. No farmer living has ever seen the color of that much money for a single dozen of eggs. Few ever have realized half that amount, and the plain English of it is, that no farmer averages 25 cents a dozen, taking the year round. This does not apply to people who make a business of the poultry industry, and live in close proximity to the city markets.

From March until October is the harvest of eggs on the average farm. The price ranges from 12 to 18 cents, or possibly a trifle higher, late in the summer. By far the greater number are sold at about 15 cents. With the first really cold blast of winter, these same eggs sell for three, and very often more, times this price. Who gets the profit? Not your storekeeper, surely; the country merchant has several troubles of his own, and, counting the good and the bad, especially the bad, he would much prefer that you paid him cash for groceries, and take your chances on selling eggs elsewhere.

Neither is the huckster getting rich. He gathers up the eggs through the torrid months, knows about how many of them will never pass muster, pays low enough so that the good will even up the bad, and goes his way, content with a very few cents' doubtful profit.

It is fully understood that these eggs go into cold storage. The profit goes to the men who store them. It is estimated that it cost 12 cents a dozen to produce eggs where everything is bought to feed the hens. The producer gets something like 5 or 6 cents profit; the cold storage man gets from 25 cents up to any price he can get them cornered for. This is the whole situation in a nutshell. It is based on experience, first, and statistics, after.

Well, what are we going to do about it? The present boycott on eggs can be only a temporary help, at best. Just as soon as the prices are lowered to meet the demand of the boycotter, and they begin to buy, then will the price go skyward again; this is the law of supply and demand. If the people heading the boycott movement used the same zeal in getting in personal touch with the producer then would it avail something.

Farmers should have co-operative storage plants of their own. When the masculine portion of the farm households take the interest in the poultry question that it merits, then will something in this line be done. The women raise the chickens, the income of which nets this country three quarters of a million dollars. They have little choice in the matter of the disposition of their products.

What would be thought of a farmer who made no provision to store his grain until the market warranted his selling? Yet this is exactly what is being done with that most important of all farm products—the egg.

LINE BREEDING IN POULTRY.

Mrs. J. H. B., Illinois, has, by dint of hard work and much expense, built up a flock of pure-bred White Wyandotte chickens and does not wish the flock to run back. She writes:

We began with the best known strain, and the best individuals that we could afford to buy. Each year we have been improving our flock, until now the question is, how to keep it up to its present standard. The flock of 150 hens have the run of the farm, which necessitates the purchasing of such a great number of cockerels as to make the expense too heavy for any prospective gain. Now, could we use some of our own stock without danger of running our flock down? If so how would you advise the matings to be made? We have some splendid yearling cocks that were purchased last year.

This question involves the principle of line breeding. Systematic line breeding, meaning mating related birds of special excellence, those that have proved beyond a doubt that they will reproduce their kind, will neither run the flock down in either size or stamina. An offspring will more nearly resemble that parent which has the longest line of inherited ancestry, whether it be good or bad, and so the more generations behind the good qualities the better. For this very reason, our correspondent may safely mate certain individuals of her own flock, of which she knows the ancestry, than a bird of which she knows little, or nothing, no matter how promising his appearances as an individual. In this case it would be advisable for our correspondent to keep the yearling cocks to head the range flock next year. This is really the best of all line-bred matings; that of the sire and his pullets. To furnish cockerels for the range another season, ten of the best yearling hens should be selected from the flock; the ones, in your opinion that more nearly measure up to your "yardstick" of what a White Wyandotte should be. Even though every breeder takes the standard as a model, each and every one stamps certain characteristics in his flock. The practiced eye of a judge can tell at a glance whose strain he is judging. To head the few selected hens there should be a cockerel purchased from the same breeder where the start was procured. Use the cockerels from this mating another year, purchasing a male, preferably a cock, for the head. It is to be recommended, that one part of the yard be young blood, while the other side is fully matured stock. In this manner it will be necessary to purchase one male each year instead of many; instead of putting a long price into so many mediocre birds, invest the money in one superior male each year. Many of the most successful breeders never

140 EGG INCUBATOR CHICK BROODER
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The incubator is California Redwood, covered with asbestos and galvanized iron: has triple walls, copper tank, nursery, egg tester, thermometer, ready to use. Both For $10
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CURE SICK CHICKENS WITH GERMI-KIL. Catalog and sample free. Address
AYE BROS., Box 1, BLAIR, NEBRASKA

SMALL ADVERTISING GETS BIG BUSINESS

AN INSTANCE of unusual returns obtained through poultry advertising in The Homestead is shown by a letter written by Miss Emma Holtz, Wilber, Neb., in which she says: "I advertised eggs from my imported English Blue Orpington ducks in The Homestead, using but a small advertisement, and running it only a short time late in the season. I received plenty of inquiries and most of them resulted in orders. I am very much pleased with the results." It seems that Homestead readers are interested in duck raising to a remarkable degree. This should encourage other duck raisers to send for advertising rates. Address,

HOMESTEAD CO., POULTRY DEPT., DES MOINES, IA.

LEGHORNS.

ROSE COMB BROWN LEGHORN COCKERELS
At the Pike Timber Stock Farm
DAVENPORT & MACK, BELMOND, IOWA

BIG BARGAINS in R. C. Brown Leghorn hens and cockerels; also in Fawn and White I. R. ducks and drakes scored and unscored. Also a few White I. R. drakes of the Fischel strain. Write your wants. Mrs. G. W. Brockway, Clarksville, Iowa.

ROSE Comb Brown Leghorn cockerels. Large, vigorous birds with true Leghorn type of early Mar. and April hatch, from strictly pure-bred stock, noted for laying qualities and size. None but first quality birds sent out. Write Geo. Boyce, R. 3, Newell, Ia.

S. C. W. LEGHORN COCKERELS from prize winning stock, priced cheap. Also S. C. B. Leghorn pullets laying now.
MRS. C. J. WAY, - BUSSEY, IOWA

S. C. W. LEGHORN COCKERELS, Young's strain, $1 to $5 each. Grand laying strain. Address Chas. J. Mackey, Box 523, West Liberty, Ia.

TWENTY-FIVE choice pure-bred Single Comb White Leghorn cockerels at $1.50 to $2 each. Address Mrs. W. S. McNutt, Sheldon, Iowa.

SINGLE COMB BROWN LEGHORN cockerels, hens and Guinea fowls. Write for prices. Address J. A. Penn, Phone 87, Alta, Iowa.

S. C. W. LEGHORN cockerels for sale, Extra good ones at reasonable prices. D. W. Younger strain. Address K. P. ESPE, JEWELL, IOWA.

LARGE, well-marked, Single Comb Brown Leghorn cockerels from sires scoring to 93½, 75c and $1 each. Write Mrs. Will Michael, Selma, Ia.

CHOICE R. C. B. Leghorn cockerels for sale at $1 ea., 6 for $5. Fine birds from choice egg-producing strains. Mrs. P. W. Reece, R. 3, Elmore, Minn.

S. C. W. LEGHORN cockerels and hens from Wyckoff, Knapp, Young and Vannatta strains. None better. 75c to $1 ea. George Gaul, Tipton, Ia.

FINE S. C. WHITE LEGHORN Cockerels for sale at $1.00 each, bred for size and color.
MRS. H. H. HESS, R. 2, MINIER, ILL.

S. C. W. LEGHORN COCKERELS for sale. Farm raised and healthy. $1 each or 6 for $5.
A. R. Cochran, Anita, Cass County, Iowa.

SINGLE COMB BROWN LEGHORN Pullets and cockerels. 500 to select from. EARL BLOOM, BRIDGEWATER, IA.

For Sale Choice lot of Single Comb Brown Leghorn, Single Comb Rhode Island Red chickens. Mrs. A. N. Bonnett, Birmingham, Iowa.

SINGLE Comb White Leghorn hens and pullets. Write for surprise prices on exceptionally fine cockerels. Write Mrs. W. W. Scott, Calamus, Ia.

S. C. W. LEGHORNS, 100 unscored ckls. $1 ea. Scored birds $1.25 to $2.25; farm raised, scoring 91 and up. W. C. Kimball, R. 1, Shell Rock, Iowa.

ROSE COMB BROWN LEGHORN cockerels; fine birds from choice egg-producing strains. Address C. H. & J. E. Bauman, Pella, Iowa.

S. C. Br. Leghorn Cockerels That are large, well marked and healthy. Price $1.50 ea. F. Bollman, Wall Lake, Ia.

456 S. C. White Leghorns
AYE BROS., Box 1, BLAIR, NEBRASKA

R. C. B. LEGHORN COCKERELS $1 each or 6 for $5, hens $10 a dozen. Mrs. Chas. T. Peacock, R. 2, Box 30, Plattsmouth, Neb.

50 CHOICE S. C. W. LEGHORN COCKERELS $1 EACH
EGGLAND FARM, MT. VERNON, IOWA

LEGHORNS---Rose and Single Comb, Buff, White and Brown, $1 each, dozen $12. Address Progressive Poultry Farm, Hampton, Iowa.

R. B. Brown Leghorns, from prize-winning stock, choice selected ckls. $2 ea., 4 for $5; ckls. and pullets $1 ea. Mrs. Nelson Hyde, R. 2, Manson, Ia.

1,000 S. C. B. Leghorn hens, pullets and cockerels. $8.00 to $12.00 per doz. Heavy laying strain. Edw. Dooley, Selma, Ia.

WHITE LEGHORNS 100 Single Comb cockerels. Good, husky birds at $1 each. Address G. H. BURGE, MT. VERNON, IA.

PURE-BRED R. C. B. LEGHORNS. scored and unscored. For prices write Mrs. C. R. Jones, R.2, Iowa Falls, Ia.

50 SINGLE COMB BROWN LEGHORN Cockerels, scoring from 90 to 96, $2 each. Write Hawkeye View Farm, Selma, Iowa.

R. C. BROWN Leghorn cockerels. Pure bred, fine, large fellows, $9 and $10 per dozen; also some pullets. Mrs. Laura Mather, Clarksville, Ia.

WALLACE'S S. C. White Leghorns. Won at Des Moines, Dec. 1913, 1st cock, 2d hen; 1st, 3d, ckl.; 1st, 2d, 3d, 5th pullet. W. F. Wallace, Diagonal, Ia.

UTILITY R. C. B. Leghorn cockerels 60c, $1 each. S. C. M. Anconas, W. H. turkeys, hens $3, gobblers $4. Satis guar. A. F. Anderson, Selma, Ia.

FOR SALE SINGLE COMB BROWN LEGHORN cockerels, single $1; trios $2.75. Address P. MASON, CALAMUS, IOWA.

123 S. C. Brown Leghorns
AYE BROS., Box 1, BLAIR, NEBRASKA

GEESE.

GEESE Mammoth Toulouse geese, either sex, early hatch for $3; later batch $2.50. Address Ethel H. Shaw, R. 6, Newton, Iowa.

42 TOULOUSE GEESE
AYE BROS., Box 1, BLAIR, NEBRASKA

WHITE China and Embden geese $2.50 each; Muscovey ducks $1.25, drakes $1.50. Mrs. J. F. Stolley, Granville, Iowa.

COCHINS.

CHOICE Buff Cochin Cockerels and pullets, Prize winners, large framed, even buff. Holiday bargains if taken soon. Mrs. W. O. Thomas, Corning, Ia.

ANCONAS.

Anconas S. S. Hamburgs, W. Minorcas, W. Leghorns, Toulouse geese. Write your wants. J. M. HALL, WILLIAMS, IOWA

When writing to advertisers please mention The Homestead.

ORPINGTONS.

COOK'S SINGLE COMB WHITE ORPINGTONS BRED with blood behind them. Best for the money. Vigorous cockerels with big bone and good heads, superior hens and pullets. Write for particulars. Can please you. LeRoy Owen, Wayne, Neb.

WHITE ORPINGTON CKLS. From best laying strain; large, heavy-boned birds; unscored; price $1.50, $2 and $2.50. Address Frank Nash, Minden, Nebraska

ONE dozen Single Comb White Orpington hens and one ckl., $20; ckls., $5; White Langshan ckls., $5. M. B. turkey toms, $5. 15 S. C. W. Leghorn hens and 1 ckl., $13. Selma Shumander, R. 1, Pilot Mound, Ia.

S. C. BUFF ORPINGTON cocks and cockerels, big, husky fellows at right prices for quality. Write us. Glynn Poultry Yards, Cascade, Iowa.

CHOICE S. C. Black Orp. ckls. from high scoring stock reasonable. Write before buying. Satisfaction guaranteed. A. F. Stoeckl, B. 284, Dyersville, Ia.

EXTRA GOOD S. C. Buff Orpington cockerels, good size and color. Price $1.50 each. Address **E. D. HAMANN, - PERSIA, IOWA**

S. C. Buff Orpingtons A few good, early hatched cockerels at from $3.00 to $5.00 each. **Mrs. Henry Martin, Eddyville, Nebraska.**

CRYSTAL WHITE ORPINGTON cocks, ckls. and pullets, also a few from Kellerstrass $2 eggs. J. H. Hartshorn, R. 1, Traer, Iowa.

Pure Bred White Hollands, Pekins, S. C. B. Orpington ckls. Mrs. A. S. Davis, Meadow Crest Farm, Burlington, Illinois.

50 S.C.W.Orp. ckls. for sale $1.50 to $5 each. From state fair winners. Original strain Kellerstrass and Owens Farm. A. E. Goodman, Indianola, Ia.

SINGLE Comb White Orpington Hens and Pullets at attractive prices. Choice cockerels at $1 up. Mrs. Howard Niswander, Kinross, Iowa.

241 EGG strain. S.C. Buff Orp. World's champion layers. 100 choice early hatched ckls. Prices right. Circular free. W. L. Bardsley, Neola, Iowa.

60 S. C. WHITE ORPINGTON Cockerels for sale. Big, husky fellows at $2 and $3 each. **M. D. KORNS, HARTWICK, IOWA.**

355 BUFF ORPINGTONS
AYE BROS., Box 1, BLAIR, NEBRASKA

75 S. C. BUFF Orpington cockerels, good size and color, 4 cockerels for $5; also some for $2 and $5 each. Mrs W. E. Zimmerman, R. 5, Neola, Iowa.

LARGE S. C. BUFF ORPINGTON Cockerels from heavy laying strains. Write for prices. Mrs. Harry E. Johnson, Oakland, Iowa.

DUCKS.

20 LARGE WHITE PEKIN DRAKES FROM prize-winning stock, yearling ducks and drakes weighing 10 pounds each. Young drakes $2.50 each. Orders booked for eggs at $10 per 100. Address **J. M. HALL, WILLIAMS, IOWA.**

INDIAN RUNNER DUCKS White and fawn. White egg strain. American standard prize winners; drakes have fawn heads; $1 eacn, $10 dozen. Homer H. Todd, Alburnett, Ia.

FAWN AND WHITE Indian Runner ducks. Won second on drake; first, second and third on duck at the Villisca show in December; 100 for sale; prices reasonable. Mrs. C. A. Robinson, R. 6, Griswold, Ia.

FAWN AND WHITE INDIAN RUNNERS---drakes 75c; white egg strain. Write at once. Address **Jennie Ryder, Farmington, Iowa.**

Pekin Ducks Extra large, good laying strain; hens $2, drakes $2. Mated trio $5. Address **ED MEYER, DYERSVILLE, IOWA.**

FAWN and White Indian Runner Ducks, of Reinhard strain, fine layers, white eggs. Birds $1.50 each or $4 for a trio. Mrs. G. W. Shaw, Monroe, Ia.

CHOICE Pekin ducks (Batchelder strain); White Wyandottes, pure white utility or fancy; try ours; they will please you. E. S. Dyas, Bellevue, Iowa.

FOR SALE—Buff Orpington ducks and drakes, the best ducks on earth. Get busy if you want a start in this new breed. A. B. Johnston, Brooklyn, Ia.

201 Indian Runner Ducks
AYE BROS., Box 1, BLAIR, NEBRASKA

I. R. DRAKES, fawn and white; direct Berry strain; fine layers; white eggs; $2 each; 3 for $5. Write **E. E. Snively, Jefferson, Iowa.**

INDIAN RUNNER DUCKS—Winners at Chicago. Choice stock at farmers' prices. Fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

FANCY FULL GROWN Fawn and white Indian Runner drakes $1 each. **MRS. WILL MICHAEL - SELMA, IOWA.**

PURE-BRED MAMMOTH PEKIN DUCKS $1.25
Drakes $1.50. Mrs. J. M. Easter, Bonaparte, Iowa.

112 PEKIN DUCKS
AYE BROS., Box 1, BLAIR, NEBRASKA

35 PURE F. AND W. INDIAN RUNNER ducks and drakes from an eastern fancier's strain, $1.25 ea. Mrs. Jennie Efnor, R. 1, Monroe, Ia.

DOGS.

Scotch Collie Pups

I HAVE 5 male and 4 female pups, eight weeks old, sable and white in color, natural heelers, farm raised. They are eligible to register and I am selling the male pups at $10 each and the females at $5 each. If you want one write at once as they will not last long. Mention Homestead when writing.
WHITE VIEW KENNELS,
J. E. SMITH, PROPRIETOR, VICTOR, IA.

SCOTCH COLLIES
HOMESTEAD readers interested in the very best Collies should write us. Our stock is direct from the very best imported, and of strains noted for their winnings and intelligence. Special prices for a short time. A. A. Martin & Son, Tekamah, Neb.

COLLIES---Breeders buy our pups for stud dogs—reason—superior stock. Airedales, by champion, Judge Dexter, Imp. Tintern Perforn. Pups, trained dogs and bred bitches. P. L. Savage, St. Charles, Ill.

FOX TERRIERS, all ages, females open or bred for sale; Best rat, pet or watch dogs on earth. Address T. H. Kalstenberg, 1 Main St., Pella, Iowa.

HOUNDS will trail and run until holed or trailed Fox, Wolf, Coon, etc., pedigreed. Sent on ten days' trial. R. F. Johnson, Assumption, Ill.

SCOTCH COLLIE PUPPIES Sable and white, fine ones, $5 each. Write **W. B. COOPER, MILFORD, NEBRASKA.**

go out of their own flock, once it is established to suit them, for new blood. This would be a dangerous proceeding for any but the most experienced.

EQUALIZING EGG PRICES.

To the Editor:

The price of eggs is exciting much comment at the present time and ridiculous cartoons are appearing in the daily papers. At the same time there is general condemnation of cold storage, the one thing that has heretofore equalized egg prices between summer and winter.

It is within my recollection, just before the general adoption of cold storage for the preservation of food products, that, during the spring and early summer, eggs would be worth 8 to 10 cents per dozen. Then, in the midst of an ordinarily severe winter, the price would go up to 50 or 75 cents per dozen.

After cold storage had been proven effective for preserving eggs, the price soon became equalized, ranging between 15 and 25 cents per dozen the year round, with feed about half the cost of the present time.

So long as it is possible for any family, in town or country, to keep one or two dozen chickens in the backyard, with little or no expense for feed or care, it is no more possible for any person, corporation, or combination to corner the egg supply than it would be to corner the bread supply so long as there is flour for sale in the market and housewives willing and competent to turn it into bread.

With the present high prices for feed there is little or no profit in eggs at 30 cents per dozen except in case of the backyard flock, fed principally from table and kitchen scraps. Here it is most all profit and it is surprising that more people do not put in a few hens instead of consuming an ancient product and kicking about the price.

Eggs will continue to be eggs, and will steadily advance in price just so long as people continue to do two things. First, sell their eggs during spring and early summer, because of good prices, instead of hatching and raising more chickens. Second, avoid the small expense and labor incident to the keeping of a small home flock.

There is no complaint from those who keep chickens about the high price of eggs. Such complaint comes exclusively from those who do not raise chickens; who don't want to be bothered with them; who want someone else to do it for them at a price less than cost of feed.

For several years there has been an increasing demand for eggs and a decreasing supply—the latter due to high prices for grain and other feed, unsuitable breeding and hatching seasons, and good egg prices that tempted the selling of eggs for culinary purposes rather than their use in incubation.

What is a good, fresh egg from well-fed, healthy stock really worth? If we have been accustomed to paying ten cents a dozen, then we will consider 20 cents a dozen as extraordinary and inexcusable. If, however, we have been used to paying one dollar a dozen then we would consider 60 cents a dozen a downright bargain.

Personally, I would much prefer a couple of good, fresh eggs at 5 cents apiece than 10 cents worth of beefsteak. But, then, preferences don't count. We have to pay a premium if we want goods of any kind that are scarce, and just so long as the great majority of home owners prefer to consume rather than produce, then just so long will eggs maintain or advance in price. G. H. L.

From a once despised line, tolerated under protest, the poultry business is now recognized as one of the most valuable industries of our land, contributing hundreds of millions of dollars to the wealth of the country. Three quarters of a million of dollars is realized annually from the American hen, equaling the combined value of potatoes and oats, and equal to the wheat crop of the United States. The reurns from one hen must, of a necessity, be very small, but the output from the whole feathered tribe is fairly startling. Not only has the business increased in volume, it has increased educationally. More and more, the colleges of our country are realizing that the study of poultry culture is just as essential as any other one thing.

POINTERS.

—Single Comb Brown Leghorn cockerels are advertised by P. Mason, Calamus, Iowa, on page 14.

—Mrs. Geo. W. Goble, Kansas, Ill., advertises Black Langshan cockerels at reasonable prices on this page.

—White Plymouth Rock cockerels are advertised on page 16 by C. L. Carter, R. R. 1, Panora, Iowa.

—Mrs. J. M. Easter, Bonaparte, Iowa, quotes exceedingly low prices on mammoth Pekin ducks and drakes.

—The advertisement of M. L. White, Altoona, Iowa, offering Barred Plymouth Rock cockerels for sale will be found on page 16.

—M. A. Whisler, Udell, Iowa, advertises White Wyandotte cockerels and White Holland turkeys on page 16, and quotes attractive prices on both.

—Warren Hughes, Littleport, Iowa, quotes quite reasonable prices on Mammoth Bronze turkey hens, Pekin drakes in an advertisement on this page.

—On page 16 will be found the advertisement of R. S. Tennyson, Clarksville, Iowa, offering White Wyandotte cockerels from prize-winning stock for sale.

—J. P. Hertzog, Blue Springs, Mo., has some high-bred Narragansett turkeys that he is offering for sale to Homestead readers in his advertisement on this page.

—Buff Orpington and Rhode Island Red cockerels can be ordered from C. R. & R. W. Steele, Ireton, Iowa, at $2 each or three for $5. Read the advertisement on page 16.

—On this page appears the advertisement of Mrs. Thos. M. Miller, Selma, Iowa, offering scored and unscored Mammoth Bronze turkeys and Buff Plymouth Rock chickens for sale.

—Mrs. W. O. Thomas, Corning, Iowa, has some choice Buff Cochin cockerels and pullets, on which he will make holiday bargains if taken soon. Her advertisement appears on page 14.

—A. Christopherson, Garden City, Iowa, advertises Rose Comb Rhode Island Red cockerels on page 16. They are especially desirable birds and very cheap at the prices quoted.

—Messer Farms, R. 9, Waterloo, Iowa, advertises on page 16 that they have for sale Single Comb Rhode Island Red and Single Comb White Leghorn cockerels and quote prices.

—Arthur Dearinger, Reasnor, Iowa, has eighty-five big boned Black Langshan cockerels that he is offering for sale to Homestead readers in his advertisement appearing on this page.

—In an advertisement on page 14 Mrs. W. S. McNutt, Sheldon, Iowa, announces that she has for sale Single Comb White Leghorn cockerels and quotes very low prices on them.

—W. H. Miller, Lynnville, Iowa, can supply Homestead readers with Single Comb Rhode Island Red cockerels. The price will be found stated in the advertisement found on page 16.

—Mrs. Hattie J. Jennings, R. 1, Beaconsfield, Iowa, advertises on page 16 that she has for sale Barred Plymouth Rock and Single Comb Brown Leghorn cockerels and White Holland turkeys.

—John Peterson, Randall, Iowa, is publishing a list of prizes won on his Barred Plymouth Rocks at the Iowa State Fair, Marshalltown and Gilbert shows. His advertisement appears elsewhere on page 16.

—R. H. Coyle, Cascade, Iowa, whose advertisement appears on this page, desires to announce that he is again prepared to furnish Homestead readers with Mammoth Bronze turkeys from a flock that is larger and healthier than ever.

—Geo. D. Camp, Mt. Vernon, Iowa, advertises White Wyandotte cockerels of the Keeler strain on page 16. He offers high-class birds at, from $3 to $10 each, and a few younger ones at $1.50 each. Send enquiries to the above address.

—There appears on page 16 the advertisement of H. A. Zobel, Dysart, Iowa, offering Rose Comb Rhode Island Red cockerels and cock birds and Rouen ducks for sale. He has them both scored and unscored and will guarantee satisfaction.

—Mrs. Geo. W. Long, Richland, Iowa, who advertises White Wyandottes on page 16 raises that one breed exclusively. She has in her flock a strong infusion of the famous Regal blood, imported from Canada. The prices quoted are reasonable.

—Mrs. Laura Mather, Clarksville, Iowa, in furnishing copy for her Rose Comb Brown Leghorn advertisement that appears on page 14, writes: "I have the finest and best high-scoring birds that I have ever bred. They are so uniform that they are all alike. They are of a great laying strain."

—Writing under recent date, E. S. Dyas, Bellevue, Iowa, whose advertisement appears on this page, says, "Our White Wyandotte chickens and Pekin ducks are the best we have ever raised. Any order which we may receive will be filled to please the customer. Our young birds are from prize winners, and, what is more, they are themselves prize winners.

TURKEYS.

TURKEYS BOURBON RED **TURKEYS** MAMMOTH BRONZE **TURKEYS** WHITE HOLLAND
BIG, clean, heavy-boned stock at prices you can afford to pay. We breed all paying varieties of poultry. Write for descriptive circular. Mention The Homestead and address
W. F. HOLCOMB, MANAGER NEBRASKA POULTRY CO., CLAY CENTER, NEBRASKA.

BONNIE VIEW WHITE HOLLAND Turkeys
HAVE two flocks that are not related. Fine, healthy turkeys. **Mrs. N. W. Burbank, Bonnie View Farm. - New Sharon, Iowa.**

BIG BRONZE TURKEYS FOR SALE—Toms and females weigh from sixteen to twenty-two pounds. One yearling tom weighs thirty-two pounds. Prices right. 25 big B. P. Rock cockerels for sale. Address **MRS. GRANT GALLAHER, SPENCER, IA.**

TURKEYS MAMMOTH WHITE HOLLAND TURKEYS from Iowa state show winners. Toms $6, hens $5.00. Address **ETHEL H. SHAW, R. 6, NEWTON, IOWA.**

For Sale Full Blood Bourbon Red turkeys from select breeding toms $5, hens $3, and B. P. Rock cockerels. Address **RAY E. TULLER, R. 2, OTTUMWA, IOWA.**

Scored and Unscored M. B. Turkeys and Buff P. Rock chickens. Mrs. Thos. M. Miller, Selma, Iowa.

MAMMOTH BRONZE turkey toms for sale. Big, heavy boned, well marked birds. Write Eugene Haws, Charleston, Nebraska.

For Sale WHITE HOLLAND TURKEYS, extra fine birds. Price—hens $3, toms $4 each. Mrs. A. J. Douglas, R. 1, Seaton, Illinois.

65 B. R. TURKEYS Non-related to any I have sold before. Extra good. **MILT BRADSHAW, BEACONSFIELD, IA.**

BOURBON RED TURKEYS, hens $3.25, toms $4.50. S. C. Brown Leghorn and R. C. Red cockerels. **S. B. MOYLE, HILLSBORO, IA.**

EXHIBITED four M. B. turkeys State Show Des Moines, 1913; won 1st young tom, 2d old tom, 2d hen, 3d pullet. Mrs. Wm. H. Nolin, Monroe, Iowa.

BOURBON RED TURKEYS For sale. Excellent birds at reasonable prices. **C. A. ROBERTS, LANCASTER, MO.**

M. B. TURKEYS Of the big-boned type; 12 toms $5 each; hens $3.50 each. **MRS. JENNIE EFNOR, R. 1, MONROE, IA.**

WHITE HOLLAND TURKEYS, big, healthy toms and hens, unrelated. Attractive prices. Write **B. B. BENNETT, TRIPOLI, IA.**

MAMMOTH BRONZE TURKEYS of the Giant strain, pullets and cockerels for sale. Eggs in season. Write C. A. Molesberry, Plymouth, Iowa.

THE NEW POULTRY FARM. Pure-bred, large Mammoth turkeys and Pekin ducks. Address William & Roscoe Lehner, R. 2, Elizabeth, Ill.

GIANT STRAIN M. B. TURKEYS for sale. Trios not akin; noted for size, standard markings and show record. A. D. Walker, Memphis, Mo.

WHITE HOLLAND TURKEYS—Elephant strain, very fine birds. Hens $3, toms $5. Write **MRS. J. C. HENNING, HAWKEYE, IOWA.**

For Sale Mammoth strain Bourbon Red turkeys. Pure bred White Wyandottes. Extra good ones. Write Mrs. L. E. Miller, Norwich, Ia.

Pure Bred Bourbon Red TURKEY HENS $3; GOBBLERS $5. Write **ADAM YOUNG - ROCKFORD, IOWA.**

For Sale Bourbon Red turkeys, the big heavy-boned kind; hens $4, toms $4.50. Write **WM. OAKLAND - BLAIRSBURG, IOWA.**

White Holland Toms for sale; price $5 each. Write **MRS. D. E. HIGGINS, JEFFERSON, IOWA**

M. B. TURKEYS for sale. Hens $3.50, toms $6. Large frame. Order early. Address **John O. Boyle, R. 1, Pleasanton, Iowa.**

100 M. B. TOMS and PULLETS from 30-pound hens. Some less. Large boned. Quick shipment. Address Steve L. Morian, Piano, Iowa.

MAMMOTH BRONZE turkey hens $4. Toms sold. Pekin ducks $1.25; drakes $1.50 each. Write Warren Hughes, Littleport, Iowa.

NARRAGANSETT TURKEYS from highly-bred stock, large and gentle. Address J. P. Hertzog, Blue Springs, Missouri

PRIZE-winning Bourbon Red turkeys, Indian R. ducks, Barred Plymouth Rock and Buff Orpington cockerels. A. E. Muxlow, R. 4, Independence, Ia.

TURKEYS, pure Mammoth Bronze, either sex. Large, vigorous birds from select stock. Wt. guar. For prices address R. H. Coyl, R. 25, Cascade, Iowa.

LANGSHANS.

MAJESTIC STRAIN BIACK LANGSHANS from the largest flock in the country. Excellent ckls. for sale. Also other stock and eggs. Frank G. Hoagland, Glenville, Neb.

BIG Bone Black Langshans. $5 Ckls. for sale scoring 92 to 93½, $2 to $6 each. unscored Ckls. $1.25 and $1.75 each. Arthur Dearinger, Reasnor, Iowa.

EXTRA-GOOD Black Langshan cockerels, guaranteed to satisfy, at $1.50 to $5; also a few Buff Rocks. Address H. P. Myers, Murray, Iowa.

896 BLACK LANGSHANS
AYE BROS., Box 1, BLAIR, NEBRASKA

BIG, BLACK LANGSHAN COCKERELS for sale $2 each or three for $5; fine ones. Address **MRS. L. A. CATLIN, MONMOUTH, ILL.**

BLACK LANGSHANS---50 cockerels and pullets for sale. 20 years' breeding. Write quick if you want any. Address O. H. Stilson, Corwith, Ia.

CHOICE BLACK LANGSHAN cockerels for sale at $2 each or three for $5. Address **Mrs. Geo. W. Goble, Kansas, Ill.**

B. and W. Langshans, S.C.B.Orps., Lt. Brahmas, R. C.R.I.Reds, M. B. turkeys, choice birds, reasonable prices. Mrs. S. E. Newell, R. 6, Audubon Ia

When writing to advertisers please mention The Homestead.

RHODE ISLAND REDS.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVELY
Add Value to Your Flock
BY purchasing an April-hatch, range-bred cockerel. Prize winning, large-boned, deep-red birds with long backs. Prolific laying strain. No better blood anywhere. Stock and eggs shipped on approval. As to my reliability write any bank or business firm in Iowa City.
HENRY G. WALKER, IOWA CITY, IOWA

S. C. Rhode Island Reds
TOMPKIN'S STRAIN
Write for descriptive circular.
P. H. Thiel, Renwick, Humboldt Co., Iowa.

40 CHOICE COCKERELS FOR SALE 40
RHODE ISLAND REDS AND BUFF ORPingtons. R. C. and S. C. R. Reds; S. C. Buff Orpingtons, $2.00 each, three for $5.00. Address
C. R. & R. W. STEELE, IRETON, IOWA

S. C. Rhode Island Red Cockerels
HIGH-CLASS, farm raised, dark velvety red, heavy-boned fellows that will improve your flock. $1.50 and up. Mention The Homestead.
L. G. Johnson, Box H, Steamboat Rock, Ia.

ROSE C. RHODE ISLAND REDS and Rouen ducks. Cockerels and cock birds of the big type, scored and unscored birds $1.25 up. A few high scored ducks. Satisfaction guaranteed. Address
H. A. ZOBEL, R. 3., DYSART, IOWA.

BIG-BONED, deep red, Rose Comb Reds, red eyes, long back, low tail, high scoring, $5 each-good breeders, three for $5, cockerels, pullets, guaranteed. Address Highland Farm, Hedrick, Iowa.

R. & S. C. R. I. Red ckls.; R. & S. C. Brown Leghorn hens, pullets and ckls.; fawn and white Indian R. drakes; Mammoth White Holland toms. Prices reasonable. Mrs. T. A. Gough, Bristow, Ia.

MOUSER'S REDS (both combs) for exhibition or breeding. Silver cup winner at Omaha and other big shows. Hens $1.50 to $2 50; Cockerels and pullets $2 to $10. W. I. Mouser, R. 5, Red Oak, Ia.

ROSE COMB RHODE ISLAND REDS
A CHOICE lot of big-bone, vigorous cockerels of good color and breeding. First orders get choice. Price $1.50, $2 and $2.50. F. M. Lane, Prescott, Ia.

S. C. R. I. RED ckls., $1 up. Large boned, rich red birds, from high-scoring stock. Satisfaction guaranteed. Mrs. Howard R. Moore, Stuart, Iowa.

S. C. R. RED COCKERELS $1 EACH
W. H. MILLER, R. 1, LYNNVILLE, IOWA.

S. C. R. I. RED AND S. C. W. LEGHORN cockerels $2 to $5 each. Address
MESSER FARMS - WATERLOO, IOWA.

CHOICE R. C. R. I. RED COCKERELS Deep red, Early hatch $1 to $3. Address Earle Welch, Kanawha, Iowa.

R. C. REDS, rich red, oblong shape, red eyed, strong, hardy, vigorous ckls. from heavy-laying strains, $1.50, $2, $2.50. A. Christopherson, Garden City, Ia.

222 R. I. REDS
AYE BROS., Box 1, BLAIR, NEBRASKA

CHOICE R. C. R. R. COCKERELS $1 each. Ship from De Soto.
MRS. T. J. LINK, R. 2, WINTERSET, IA.

55 S. C. RED CKLS. Prize-winning strain; scored $3 to $5 each; unscored $1.50 ea. Mrs. Jennie Efnor, R. 1, Monroe, Ia.

R. C. RHODE ISLAND RED COCKERELS One reg. yearling Holstein bull. Prices right. A. G. Canfield, R.4, Kanawha, Ia.

DEEP RED R. C. R. I. RED COCKERELS and pullets for sale. One pen S. C. Reds $10. Address **MRS. CHAS. BELZ, CONRAD, IA.**

C. Rhode Island Red Ckls. Prime birds, $1 and $1.50 each. Address **W. B. COOPER, MILFORD, NEB.**

SINGLE COMB R. I. RED cockerels at $1.00 each. Good, healthy, farm-raised birds that will improve your flock. Herman Kahler, Stockton, Ia.

S. C. Comb Rhode Island Reds, choice ckls, $1.50 to $5 each. Also hens and pullets at reasonable prices. Address B. F. Bentley, Route 2, Boone, Ia.

S. C. R. I. Reds Both sexes, from pen headed by a $20 cock bird, $1.50 up, yearling hens $1.50 up. **Alex McNeill, Harlan, Iowa.**

S. C. R. I. Red Cockerels from $1, $1.50 and up; Fawn Indian R. drakes, $1. Address Mrs. Sophia Rader, Laurel, Ia.

CHOICE S. C. Red ckls., pullets, yearling hens $1 ea. Bourbon Red turkey hens $3, gobblers $5; I. R. drakes $1. Mrs. Laun, Riverdale Farm, Floyd, Ia.

R. C. Rhode Island Red Cockerels for sale. Thoroughbred, $1 to $3. **T. H. THOMPSON, KANAWHA, IOWA.**

ROSE COMB RHODE ISLAND RED cockerels, choice birds $1 and $2 each. Address
MRS. JOHN HOLMGREN, ROLFE, IOWA.

S. C. RED COCKERELS $2 up, large boned, range bred. Scored by Shallabarger $4 to $6. First at 1913 county fair. Eddith Andrews, Atlantic, Iowa.

PLYMOUTH ROCKS.

PETERSON'S BARRED PLYMOUTH ROCKS
LATE winnings: Iowa State Fair, 1st, 2d, 3d pullet, 1st, 2d, 3d cockerel; Marshalltown, Iowa, 1st, 2d pullet, 1st hen; Gilbert, Iowa, same dates 1st, 2d, 3d, 4th, 5th pullet. Have won at every show exhibited. 75 pullet bred cockerels @ $3.00 each, six for $15.00. These birds will improve your flock. Order today from this ad. Selected Birds $5.00 to $25.00. Address
JNO. PETERSON, BOX 29, RANDALL, IA.

CHALK WHITE White P. Rocks. The prize-winning kind. Sold 12 to Iowa State Agricultural College. Large, heavy boned, farm raised. Mrs. J. C. Forsythe, R. 5, Griswold Iowa.

A **FINE LOT OF BARRED PLYMOUTH ROCK COCKERELS** for sale, $1.50 to $2.00. Address **M. L. WHITE, ALTOONA, IOWA.**

HIGH SCORING, large boned B. P. Rocks for sale. Unscored birds of both sexes. Eggs in season. Fine laying strain. Mrs. W. S. Kern, Plainfield, Ia.

ners. Our Wyandottes are of the mammoth strain and the Pekin ducks are of the Batchelder strain." As the advertiser has never been able to supply the demand, our readers will do well to get in their orders quickly.

—Our readers who are looking for strictly good Pekin ducks should get in correspondence with J. M. Hall, Williams,, Iowa, whose advertisement appears on this page. Mr. Hall's birds were first and second prize winners at the late Iowa Falls show. He quotes reasonable prices.

—Silver Wyandottes, farm raised and heavy boned, lusty fellows, scored and unscored, are advertised by Miss Julia Driscoll, Plainfield, Iowa. Miss Driscoll makes a specialty of this breed and has about sixty cockerels for sale. They are good ones that cannot fail to please and will be sold at reasonable prices. See advertisement on this page.

—K. O. Knudsen, Marion, Iowa, whose advertisement offering Barred Plymouth Rock cockerels for sale appears on this page, writes: "The birds that I am advertising for sale are extra good farm raised and will weigh from seven to nine pounds each. They will surely give satisfaction.

—Mrs. W. S. Kern, Plainfield, Iowa, advertises Plymouth Rocks on this page. She writes that she has very fine cockelers, pullets and hens for sale, that they are extra large boned, have good combs, are well barred and belong to good laying strains. They score from 88 to 92 points. She solicits correspondence.

—Le Roy Owen, Wayne, Neb., advertises Cook's Single Comb White Orpingtons on page 15. He advises us that the birds which he is offering for sale will make great breeders for the coming season. They are from his best yards. As he is overstocked he will make some unusually low prices on fine birds. Write to the address named.

—E. D. Hamann, Persia, Iowa, whose advertisement offering Single Comb Buff Orpington cockerels for sale will be found on page 15, writes: "The cockerels I am offering for sale are April and May hatch. They are large for their age and are extra good in color. They are bred from a winter laying stock and are sure to please at the prices quoted."

—Chas. J. Mackey, West Liberty Iowa, breeds Single Comb White Leghorn chickens and advertises cockerels on page 14. Mr. Mackey is an old advertiser in this paper, and while his birds have always been good ones he now believes he has something superior to anything that he has before sold. He wants to make quick sales and will let them go at from $1 to $5 each.

—Mrs. Howard R. Moore, Stuart, Iowa, in furnishing copy for her advertisement offering Single Comb Rhode Island Red cockerels for sale appearing on this page, writes: "These cockerels are from high scoring stock and are large boned, vigorous birds of a rich red color, with smooth yellow legs and good combs. Pen No. 1 was headed by a ten and one-half-pound cockerel that won first at Southwestern Iowa Poultry Show, December, 1912."

—A. E. Muxlow, R. 4, Independence, Iowa, places an advertisement on this page announcing that he has for sale Bourbon Red turkeys, Indian Runner ducks, Barred Plymouth Rocks and Buff Orpingtons. At his recent local poultry show Mr. Muxlow won first on toms, first and second on turkey hens, first on Plymouth Rock cockerel and a total of fourteen ribbons in all. His Orpingtons are bred from stock scoring 90 to 93 points and his Plymouth Rocks are of a good laying strain.

—Eugene Haws, Charleston, Neb., is starting an advertisement in this issue of The Homestead offering Mammoth Bronze turkey toms. Mr. Haws is an expert stockman and poultry breeder. He raises several breeds of pure-bred stock, and they are all choice in their respective breeds. These turkey toms are the sort that Homestead readers will want to improve their ordinary flocks and to maintain their extra good flocks. Prices will be mailed on application. Better write him, and without delay. Mention The Homestead when doing so. See advertisement on page 15.

—Mrs. F. R. Barrett, Cadams, Neb., has a choice strain of Barred Rocks that have been bred on the same place so long and with a certain fixed ideal until they have become characterised as Barrett's Rocks, and the name is a good one. These are extra choice birds that make up this flock. They are big and heavy boned, bright yellow legs, nice bay eyes, good beaks, ringlet barring and in short they are ideal fowls. They have also been bred for a long time for egg production, and they are making a record as a flock that is interesting. Homestead readers in search of good stock will do well to write Mrs. Barrett. She prices cockerels at from $1.50 to $4 and pullets at $1 each. See the advertisement on this page and write without delay.

—Chalk white White Plymouth Rocks are the kind that are offered for sale by Mrs. J. C. Forsythe, Griswold, Iowa, on this page of The Homestead. Mrs. Forsythe breeds the White Plymouth Rocks exclusively and lives on a large farm where the birds have free range and plenty of shade. She is a very careful breeder and has been securing the best blood money could buy and the fact that the Iowa State Agricultural College purchased from her twelve choice birds for the college, at a long price, goes to show that she has the best that can be found. Judge J. L. Todd, who scored her flock last week, says they are the best flock he has seen for several years. They have the size, shape and chalk white color. Her prices are very low, for quality of stock. Don't forget to mention The Homestead when writing her.

PLYMOUTH ROCKS.

1898 Buff Rocks 1913
FIFTEEN YEARS a breeder and exhibitor of this breed. Choice breeding and exhibition cockerels for $1.50 and up as to quality. Write stating just what you want, I will be pleased to quote you prices. **M. E. KRAFT, BROOKLYN, IA.**

Barrett's Barred Rocks
ABSOLUTELY choice stock. Big, heavy boned birds, good eyes, beaks and plumage. Bright yellow legs. Narrow barring. Ringlet strain. Cockerels $1.50 to $4.00. Pullets $1.00. Address
MRS. F. R. BARRETT, - CADAMS, NEB.

300 GIANT BARRED ROCK COCKERELS
PARENT stock weighs up to 12 lbs. They have good combs, heavy yellow legs, deep, narrow barring; price 3 for $7, 5 for $11, 7 for $15. Choice exhibition cockerels $4 to $10 each. Order direct from this ad, and if birds are not satisfactory can be returned. **Theo. Martin, R. 6, Bellevue, Iowa.**

FOR SALE—400 Mammoth B. R. ckls. and pullets. Ckls. mature weigh 12 to 13 lbs., pullets 11. Big bones, yellow legs, narrow deep barring; good beak, comb, eyes and best winter laying strain in state if properly cared for. Kind Farmers and Fanciers are looking for. Ckls. $2 ea.; 3, $5.50; 6, $10; pullets $1.25. Satis. guar. H. F. Strickler, R. 2, Mt. Carroll, Ill.

400 White Plymouth Rocks
EXCEPTIONAL fine cockerels and pullets that will mature into extra large birds. Cockerels $3 each, 2 for $5, 5 or more at $2 each. Pullets $1.50 ea, M. Pekin ducks, large, white fowls; drakes $1.75 ea., ducks $1.50. John W. Houselog, R. 6, Bellevue, Ia.

WHITE PLYMOUTH ROCKS
EXTRA good quality and sized birds. I am offering exhibition and breeding stock at reasonable prices. There is a scarcity of good birds this year so get your order in early. F. E. Ristrim, Stanhope, Ia.

White PLYMOUTH ROCKS
AT Davenport I won 3d, 4th and 5th cock; 3d, 4th and 5th cockerel; 2d, 4th and 5th hen; 1st, 3d and 4th pullet. This entire string of show birds are for sale. Write and let me know what you want and I will give prices. Chas. L. Berry, R. 6, Iowa City, Ia.

IRVIN'S INVINCIBLE BARRED ROCKS
POSITIVELY the best to be had. Show birds, extra layers. Pullets $2, $3 up. Ckls. $3, $4, $5 up. Buff and Blue Orpington ducks $3 to $5. 5% discount on $5 orders or over if you mention The Homestead
W. A. IRVIN - WILBER, NEBRASKA.

BARRED PLYMOUTH ROCKS
AS pure in blood and as well bred to lay as any breeder can offer you. Guaranteed stock for sale at honest prices. **E. E. Condit, Orillia, Ia.**

100 **GIANT BARRED PLYMOUTH ROCK** cockerels. These are fine birds with nice combs, large yellow legs and good barring. Price: 3 for $3.00, 5 for $7.00, 7 for $9.00, 10 or over $1.25 each.
EDWIN A. RISINGER, SPRAGUEVILLE, IA.

60 **WHITE PLYMOUTH ROCK CKLS.**—Fine, strong birds, extra large strain and bred from the best laying stock, $1.25 and $1.75 each. Mrs. F. S. Manning, Friend, Neb.

BARRED Rock Cockerels, extra large, heavy yellow legs, and well barred; $2.50 each, 3 for $7, 5 for $11. If not satisfactory can be returned.
K. O. KNUDSON, Route 2, MARION, IOWA.

FOR SALE—One hundred W. P. Rock cockerels, farm raised, big, lusty fellows that will weigh 6 to 8 pounds. M. A. McWilliams, Wall Lake, Ia.

CLOSING out my entire flock of prize-winning White Rocks, $1 each; birds scoring 90 to 93, $1.50; 93 to 95½, $2 to $3. Mrs. G. W. Shaw, Monroe, Ia.

BARRED P. Rocks and White Orp. ckls. and pullets. My birds are fine. Satisfaction guaranteed or money refunded. Jno. R. Patterson, Boone, Ia.

Buff Rocks Cockerels $1 to $3; pullets and hens 75 cents each. Write to
R. H. ROBERTS - CLEAR LAKE, IOWA.

FINE BARRED ROCK COCKERELS, big bone, nicely barred. Thomas strain, price $1.50 to $3 each. Address **A. M. Long, Bassett, Neb.**

W. P. R. Cockerels from select stock, $1.50 each, or 6 for $7.50 if taken soon. Mrs. W. S. Huber, Tipton, Ia.

FIFTY BARRED P. R. COCKERELS and a few Golden Wyandotte cockerels from our prize winners. J. L. Todd, Route 3, Des Moines, Iowa.

417 BARRED ROCKS
AYE BROS., Box 1, BLAIR, NEBRASKA

EXTRA **Choice Barred Plymouth Rock** cockerels from stock scoring 90 to 93½, large and well marked, $1.50 up. Earl Bloom, Bridgewater, Ia.

W. P. ROCK cockerels and pullets, $1.50 each for three or less; $1.25 each for four to eleven; $1 each for twelve or more. B. W. Eckels, Nevada, Ia.

HIGH-Class Barred and White Rock. Breeding stock for sale, also Poland Chinas. Lone Oak Farm, Llneville, Ia., Jas. H. Duncan, Proprietor.

75 **B. P. R. COCKERELS,** large boned, fine barring, at a bargain while they last. Address
MRS. O. J. GROSS, THORNTON, IOWA.

BUFF ROCKS ONLY Fine birds, best breeding; we have a fine lot of ckls. at reasonable prices. W. M. Black, Knoxville, Iowa.

STOP! LOOK! READ! Choice Barred Plymouth Rock cockerels $1.50 and $1.75, hens $1. Alfred Marquardt, De Soto, Iowa.

BARRED ROCK COCKERELS FOR SALE
Bradley strain; $1.50 to $5; good bone and barring. Ckl. line only. **Ammy Bartow, Lynnville, Ia.**

W. P. ROCKS W. H. turkeys and Embden geese for sale. Fine, large birds at reasonable prices. S. M. Compton, R. 8, Newton, Iowa

211 WHITE ROCKS
AYE BROS., Box 1, BLAIR, NEBRASKA

BUFF ROCK CKLS. High scoring, solid Buff, big, vigorous birds at from $1.50 to $5 each. Write **L. C. Crum, Red Oak, Iowa.**

BARRED Plymouth Rock and S. C. Brown Leghorn ckls.; White Holland turkeys. Pure-bred stock. Mrs. Hattie J. Jennings, R.1, Beaconsfield, Ia.

WHITE PLYMOUTH ROCK cockerels for sale at popular prices. Write
C. L. CARTER - R. 1 - PANORA, IOWA.

WYANDOTTES.

I AM OFFERING FOR SALE
WHITE WYANDOTTE
AND
R. C. Rhode Island Red
COCKERELS and pullets of the best strains. Write me for prices, mentioning Homestead.
E. CRABS - - ALEDO, ILLINOIS.

25 WHITE WYANDOTTE COCKERELS
BRED from special pen (Keeler strain) at $3 to $10. Also a few younger birds at $1.50 each, all choice stock and sure to please you. Geo. D. Camp, Sunnyside Fruit and Wyandotte Farm, Mt. Vernon, Iowa.

WYANDOTTES
GOLDEN and Silver Laced. Premiums in 1913 Iowa State Fair, 5 firsts, 4 seconds, 4 thirds. Warren county fair, 3 firsts, 7 seconds; sweepstakes cock, hen and pullet over all breeds. Stock and eggs for sale in season. A. L. Anderson, Indianola, Iowa

Silver Wyandotte Cockerels Choicely marked large birds $3 each. Good ones $2 each. Twenty-six years a breeder.
O. M. HEALY - - - BEDFORD, IOWA

SILVER LACED WYANDOTTE Cockerels for sale, fine Rose Combs, good markings, weight from six to eight pounds, $2 each or three for $5. Mrs Frank Hoffman, Birmingham, Ia.

FOR SALE—W. Wyandotte cockerels from prize-winning stock, $1.50 to $3 each. Score card with each bird. R. S. Tennyson, Clarksville, Iowa.

PARTRIDGE WYANDOTTES High-class, high-scoring birds, scoring up to 94¾ points. **ED MEYER, DYERSVILLE, IOWA.**

PARTRIDGE WYANDOTTE and Buff Wyandotte cockerels. Both breeding and fancy stock. Write your wants. Thos. L. Morlan, Indianola, Ia.

WHITE Wyandottes, large, vigorous, high-scoring, farm-raised ckls, $2 to $5 ea. Also few hens and pullets, Mrs. W. F. Prather, R. 6, Atlantic, Ia.

WHITE WYANDOTTE COCKERELS and yearling hens for sale. Low prices on early orders. Elza Nolin, R. 3, Monroe, Iowa.

PARTRIDGE Wyandottes, part Premier strain, choice cockerels and pullets, few yearlings, reasonable prices. Ralph W. Owens, Mt. Pleasant, Ia.

SILVER LACED WYANDOTTE cockerels—if taken before Dec. 25th at $1 each, or after that date at $1.25 each. Write C. Van Zante, Pella, Iowa.

FOR SALE—Golden and Silver Laced Wyandotte cockerels, Hampshire boars and registered Morgan mares. Walter N. Brown, Shannon City, Iowa

SILVER WYANDOTTE COCKERELS, bred from good utility stock, for sale at $2 each. Address **Lawrence Kiplinger, Bedford, Iowa.**

R. C. W. Wyandotte cockerels $1 to $1.50 each. Won 1st on cock, 1st on hen, Lincoln, 1913. Price list free. Carl Ehlers, R. 3, Gretna, Nebraska.

WHITE WYANDOTTES. Choice pullets and ckls. for sale. Geo. W. Livingston, Monroe, Ia.

SILVER LACED WYANDOTTES 100 cockerels from laying strains. Address **G. H. BURGE, MT. VERNON, IA.**

FOR SALE 75 Buff Wyandotte ckls., good color and size, $1 to $2 ea. Write your wants.
O. J. REIMERS - ROCK RAPIDS, IOWA.

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Rural Route No. 56, Box 21, Philo, Illinois.

WITH THE EDITOR.

It is nearing the beginning of another year. Would that it were possible for the editor to answer personally all the helpful, encouraging letters of good cheer that have reached her desk; that is practically impossible, so this method is used to express the appreciation of it all.

One letter of particular importance is selected, from which some parts are quoted. It is from a woman of much literary importance, whose name is widely known as a writer of farm topics. The letter is personal, and for the present, at least, her name is withheld. Her letter in part, says:

Today I met with a happy surprise. In looking over the paper, a positive necessity in our house, my attention was suddenly arrested, and I mentally said: "That editorial was never written by anyone who did not live on a farm, and had not lived what she wrote." You have the best opportunity in this world to help to inspire the households in thousands of farm homes to a better appreciation of rural living. I have always contended that we have cultured women on the farm who could write what they lived. A farm journalist is the only kind of editor that can meet with the approval of farmers any more. This paper is a great field in which to work. I think the "Publisher's Views," by James M. Pierce, is one of the most popular features the paper has ever had. Now that two distinctive features have been introduced, the admirers of this farm journal will be added to in hosts. Nothing can be offered that touches so many people as a live, practical home department. It is with congratulations, and the hope that you will find much to live for in your work of 1914 on this paper that I send you this letter.

This letter was received before the other new department, "The Experience Club," was started. It, too, promises much.

Without exception, every place where the editor has attended farmers' institutes, has she been asked this question: "Do you live in town?" It is the old, old story—that of people thinking that to be able to do anything out of the prescribed rut a person necessarily lives in town. On being assured in the negative, one discerning woman said: "If I had looked at your hands I would have known without asking."

Those same hands are not much to look at, friends, that is a fact. They have washed and ironed, baked and brewed, scrubbed and cleaned and mended; yes, and sometimes spanked a little, just as you did, it is to be hoped. The greater part of the editor's life has been spent in this kind of work, kissing little bruised knees, "to make 'em well," mending bumped heads and healing broken hearts.

It is an exploded theory that, because a woman raises boys, and feeds the chickens and pigs, she necessarily knows nothing else. There is surely nothing in farm life to cause one to know nothing else, unless they will it so. Neither is there any excuse for monotony.

Last week we could dig in the good fresh earth, and the effect was something, I think, like the "call of the wild," to a primitive man. Anyhow, it was irresistible, and we kept digging, just for the pleasure of the clean, wholesome odor. Today the ground is covered with snow. Later there will be fields that are plowed, and fields of green; patches of meadow and pasture land. A few weeks later, and there will be rows of new corn; rows and more rows; east and west, north and south, cornerwise and otherwise—always in rows.

A few months, and all is changed; the country is ever changing. Each change is a picture of itself. To the editor's mind the most beautiful picture on this earth is that of a field of corn shock, with a profusion of big, yellow pumpkins lying on the ground.

"Lonesome on the farm?" If even tempted to feel lonesome or blue, just take some lumps of sugar, go down into the pastures and make chums of the young things—colts, for instance.

Our New Year greeting to those who have, by their encouragement, helped smooth the hard places, will be a quotation from Henry VanDyke: "In love and friendship, small steady payments on a gold basis, are better than promissory notes." Meaning, cheerful greeting, sympathetic interest, helpfulness and encouragement. And so, instead of trying to do one immense thing, it will be our privilege to send out "small steady payments" throughout the year to come.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

I find the great thing in this world, is not so much where we stand as what direction we are moving.—Oliver Wendell Holmes.

Shallow men believe in luck; strong men believe in cause and effect.—Ralph Waldo Emerson.

Our lives are albums written through
With good or ill, with false or true.
—John G. Whittier.

HOMESPUN WRINKLES.

It is desired to make this, as well as "Things Good to Eat," special features of this department. Our readers are invited to send in any "wrinkle" they have found to be a help. Also any recipe that has been tested, and found not wanting. In this manner we will have a regulation exchange of our own.

TO REMOVE STAINS.

Blood.—Soak in cold water and place in the sun.

Glue.—Apply vinegar with a cloth until removed.

Grease.—Use tar soap or turpentine.

Paint.—If fresh, use benzine. If of long duration, rub with vaseline and then wash in benzine. If on your hands, rub in vaseline and then apply turpentine.

How many of you care for yourselves? I didn't, and now I am not good to look at. We owe it to ourselves, and to our children, to make the most of ourselves. If this does not drop into the waste basket, I'll call again.—An Old Mother.

[Please do come again. We thank you for your suggestions.]

THINGS GOOD TO EAT.

I am much interested in this part of our department, and wish to add a suggestion about the ways of cooking rabbits. Cut the rabbit in small pieces, and place in a stew kettle with a quart of water. Add pepper, allspice, nutmeg and a little red pepper. Also some onions, if liked, and a half cup of vinegar. Cook slowly until tender, and before serving thicken the broth with a tablespoonful of flour stirred smoothly into a little water. If dumplings are desired instead of the gravy, let them cook uncovered fifteen or twenty minutes, and then cover. They will be much lighter, and not fall.—Mrs. John Haymana.

[It is said by people who have tried it that the above method will render rabbit palatable, when otherwise it would be passed by.]

AMONG OURSELVES.

We have a new inquirer today, who signs her name "Mrs. Perplexed:"

I so much enjoy reading the home page of our paper. I wonder if some of you who have had a longer experience in wedded life than I would give me some advice, which I think I need. You were so kind to "Mrs. Lonesome" that I believe you will. My experience has been very much like hers. Some say that if the husband will not be interested in the wife's ideas she must try to interest herself in what he enjoys. From my childhood I have had an aversion to card playing. Yet that is my husband's chief enjoyment. He has tried to teach me, and thinks it is because I am slow to learn that I hate the game. But it is because I was brought up that way. What shall I do? He doesn't care for reading, and he doesn't care for music. He does care to go to town, and, according to my notion, a man is safer at home with his wife a few nights each week. But he doesn't care a bit for the things that interest me. It is games that he likes. He says that cards are no more harmful than any other game. It looks that way to me too. And yet, if I were to play, a guilty feeling comes over me, just the same as if I were to steal or lie, or do some other thing I had been taught was wrong. I know there is a wide difference in what people consider right and wrong. I have been told that many of the victims in the famines of India might have been saved if they had eaten the flesh of some of the animals which they hold sacred. And yet I don't know. A soul is worth more than a principle. Sometimes it seems that if I were to interest myself in cards, and keep him at home at night, it would be much more sensible than to hang to my old idea. And yet—Bible reading and card playing sound kind of funny in the same house. If it were anybody else than my husband it would be different. I wish you would tell me what to do. I would like to hear from several.

This question applies to boys as well as to husbands. It is a question of vast importance; our friend's trouble is very real and in danger of becoming tragical. Let us hope the experienced will give some light on the subject.

"B. F.," Missouri, sends a poem. It should be a sure cure for the "blues:"

If you think you're down and out,
And you wish your cares to rout—
Be cheerful.

If you think you've reached the end,
And disaster o'er you pends,
Be cheerful.

If it seems you've lost the race,
And you cannot keep the pace—
Be cheerful.

Though it seems as black as night,
Seems as though things can't come right—
Be cheerful.

Dark it seems before the morn,
So e'en though you feel forlorn,
Be cheerful.

For the morn is sure to break—
Think of all you've got at steak;
Be cheerful.

Mrs. Gover favors us with a New Year's story that is true:

It was in a small village in Nebraska, where a lone widow and her son lived twenty years ago. The son's name was William, and he was eighteen years old. He was a great deal of help to his mother. He had a friend in the same town where he lived, who persuaded him to run away from home with him. It was a July night that they started off together. Although William loved his mother dearly he could not resist the temptation; he had always longed to see something of the outside world. No word came from the delinquent until November, when the mother received a letter from him. He asked his mother to forgive him. The grieving mother was so glad to hear from him that she wrote at once, telling him that he was freely forgiven, and he would be welcomed home whenever he came. On New Year's eve the mother was all alone, thinking about her boy. She had set the table, and all the things that William particularly liked were there. An extra plate had been laid, just like it was when the boy was at home. Just as she was sitting down to the table, a faint knock was heard at the door; she opened it—and there was her boy, her own dear son. That was the happiest New Year's either of them ever knew.

Mother love is woven through and through this little story. May some other mother's heart be as glad this beginning of the new year.

An energetic farm woman sends a bright, spicy greeting to our club:

Dear sisters of the farm, please allow me space in your columns to "'spress myself." So much is being written and spoken of the farmers that we are beginning to "feel our oats." We are not the "hayseeds" of forty years ago, and yet we have to be "shown." I was righteously indignant when the professor from Michigan talked to our Iowa teachers, and the papers came out

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This telescope when closed, as shown in the picture, is 12 inches long and has a circumference of more than 5 inches. When all five sections are pulled out it is 42 inches long. The lenses are carefully ground and adjusted by an expert at one of the largest factories in Europe. It is built of good materials and is brass bound throughout. A solar eye piece is sent with each telescope to be used in studying the sun and moon and other solar bodies. It is useful also as a magnifying glass.

See Objects Miles Away

With this telescope you can see distant objects which were invisible to the naked eye. Farmer's wife said she could see her husband plowing in a field six miles away. Dairyman found it a great help in watching windmill and cattle in distant pasture during hot weather. It saves long trips and useless worry by enabling you to see distant objects plainly.

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We will send one of these 42-inch telescopes, free and postpaid, to all who send $1.50 to pay for a three year, new or renewal, subscription to THE IOWA HOMESTEAD; 156 big, helpful issues for $1.50—less than 1 cent a copy—and this big telescope as a premium.

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in big headlines: "Farmers' Wives Drudgery Victims." Now, this is my subject. In any vocation of life we make it what we may. The farmer's life has as much pleasure as any school man's life. I've tried both. As to our conveniences, I believe that our husbands have as many of these for us as they can afford. Many farmers are not as rich as they appear to be, and any woman would rather pump water a little longer than to let the mortgage run so long. All work is only a repetition each day. For we have not the promise of the morrow. When we speak of the pleasures of the country woman and city woman, we must think; what is pleasure for one is not for another. A country woman has no time to spend the afternoons playing bridge, or watching the movies. We have time for reading, sewing, looking well to our household and doing the things which God intended woman to do.

Much of this is sound logic. Nevertheless, every woman who must do all her own work, care for a large family and all the "extras" that fall to the lot of the average farm woman should save herself at every possible turn. Water in the house costs some labor, and very little money. The expense wouldn't lift one corner of a healthy mortgage. The expense of a possible doctor bill might delay the lifting, though. We cannot take ourselves, neither the few, as an example, but the many.

THE YOUNG FOLKS

For the best letter received each week we offer twenty-five cents; second best, a silver badge; third best, a pansy badge. Send letters to Rural Route, No. 66, Box 21, Philo, Illinois.

[Will DeWitt A. Campbell send his address to this paper?]

THE MAY CLUB.

(First Prize.)

Twenty-two of us girls got up a club last May. We called it the "May Club." This club was organized with the intention of learning to sew, cook, read good books, and to help any one whom we can. The meetings are held in turn at the different homes.

Last summer we gathered flowers and took them to the poor children in the dark and dirty streets. Now we are going to share our Christmas with these children who have never known the joy of the Christmas spirit.

We are saving all our pin money to use, besides gathering for them all the warm clothes that we have outgrown. Also, we are knitting mittens, hoods, making handkerchiefs and other things to give them. Our brothers have helped, by making toys, as well as kites for the boys.

Don't you think it would be better if everyone would share their Christmas with the poor?

—A May Flower.

[Letters of this kind are very welcome. If you notice, our dear young "May Flower" not only wishes people well, she is one of the busy lot of young folks who get busy and do something. We would like to hear from this club again; about what it is doing, and how it is done. And, children, are you not glad that you are on a farm where flowers may be had for the picking?]

A True Business Story.

(Second Prize.)

I am a farmer boy, and very fond of poultry of all kinds. I keep chickens and ducks, and take them to the fair. I got first prize on them.

Then I bought some traps and began trapping. I caught seventeen muskrats and one skunk. Mamma gave me a goose and I sold that. The money is all in the bank, and next summer I expect to buy a 1914 model bicycle.

—Howard Green. Age 11.

[All honor to the boy who has enough business ability to make money, and, instead of using it up for no good purpose, to invest it in something worth while. At the rate this eleven-year youngster is going, he will have enough money to pay his way through an agricultural school. Of course, he is going to be a farmer, and, of course, he will want to learn it right. Don't be satisfied with just "any old way," Howard. Farmers need to study their work as well as anyone else. This very training is why farmers are no longer the "hayseeds,"—so-called—that they were in the past. Buy your wheel, and then begin to save a part of everything you make for an education.]

The Christmas Spirit.

(Third Prize.)

It was the day before Christmas. When I came home from school, my mother said she had something to tell me. Of course, I was very anxious to know, and she said that there was a poor family, who lived down in the woods, that could not afford any Christmas presents for their little children. She asked us if we didn't think it would be nice to help them understand the meaning of the day.

We asked some of the other girls to bring something, and every one did. There was bread, meat, butter and lots of good things to eat. Some brought clothing, some toys, and everyone did something.

They were very glad to get them, and thanked us very much. We felt much better because we had helped some one.

—Ella, Iowa.

[People, as a whole, do not realize how many truly great people there are in this good old world until it happens to be brought out. Be grateful, Ella, for that noble mother of yours, who is laying the foundation for your future usefulness. It is provoking to hear a few lament about the "good old times," when everyone thought about other people. The world never was better than at the present time, and at the rate the young folks are being trained to a good and helpful purpose, the future will see a yet greater change for good.]

A Tiny Girl's Surprise.

I would like to tell you of a surprise that I am going to give my family of four. No one knows it or it would not be a surprise.

My father will get a tie, my mother will get a set of combs, my eldest brother will get a tie, and by baby brother will get a rocking horse and a rubber ball. I hope they will be happy with these Christmas gifts.

One day at school, we wrote about what we were most thankful for. I wrote that I was thankful for a good home, father and mother. "Merry Christmas" to all our friends of this paper.

—Jolly-Holly.

[This little letter is good. The part that the editor likes best is the fact that our jolly little girl is going to give the mother something for her very own. Something to wear, too. All too often, mother gets a new coffeepot, a tablecloth or some other article that she will use for the whole family more than herself, and it's "no fair." She would like a pretty new waist or a dainty collar. Yes, and mothers have been known to appreciate a ring, or some other luxury that she has denied herself, that the other members of the family might not be stinted. Thank you very much, little thoughtful girl.]

PLEASANT FIELDS OF HOLY WRIT

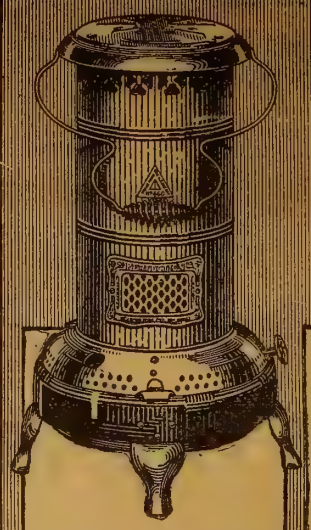
Save for my daily range among the pleasant fields of Holy Writ I might despair.—Tennyson.

THE INTERNATIONAL S. S. LESSON

4th Quar. Lesson 13. Dec. 28, 1913

THE QUARTERLY REVIEW: A DAY OF DECISION.

Twenty-five million people are today studying the vicissitudes of an obscure Syrian race of upwards of three thousand years ago. "What is the use of that? How can it be justified? Could not the time be better spent in the study, for example, of current events" The answer is: "This is a cross-section of human life. The very fact that the scene is so far away and the time so long ago frees the situation from local and current prejudices, which so often prevent clear judgment and right conclusions." The Hebrews of the period under consideration were just men and women with hopes, fears, and frailties exactly like our own. Their story is essentially that of human life in every age and everywhere. In this instance the story is exemplary —instructive, corrective, and inspirational. To any individual or mass of individuals seeking an ideal—ethical, social, or spiritual—this pilgrim and pillar-led march is suggestive and helpful in the last degree. In point of fact, it is just a pictorial representation of humanity's age-long quest for the ultimate good. No progress, either of the mass or of the individual, is a continuous triumphant ascent, unbroken by lapses more or less shameful. How true to nature, in this instance, is the stroke which represents the present ills of Israel as unbearable and magnifies the small comforts of Egypt into delicious luxuries. Over and over, Israel had to matriculate in the expensive school of experience, because, being fools, they could learn in no other. What the people wanted was quail. They did not need them. But the results were disastrous. What happened was a physiological effect of climate and temperature. Natural law is often sharp and sudden in its reprisals. God's bill of fare would have been better for them. Of this, all the graves in the wilderness were a witness. The proverbial lonesomeness of moral leadership has pathetic illustration in Moses. But just when the condition had become insufferable the psychological hour had also come when partition of responsibility could be safely made. It is a marvel of literature—the fidelity with which the Bible pictures the faults of its heroes. No effort is made to create a series of ideally perfect characters. That is what would have happened if it had been a cunningly devised fable. In this instance, for example, Aaron had been his brother's mate from the inception of the Exodus—while Miriam,



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his sister, had been the virgin Mary, of the Old Testament. Aaron was the incarnation of ecclesiasticism, the embodiment of objective religion, expressing itself in ritual. Miriam organized and voiced the praise of the people on every national deliverance. But it only took both of them a moment to fall from their high estate. The cause of it was very human. Miriam had been the "first lady of the land," and had liked being it. But Moses' wife appeared one day in the camp. Miriam, seeing herself about to be displaced, tried to retain her position by disparaging her brother. Aaron weakly followed her. But God nipped the insurrection in the bud. Two men hang that jury of "spies"—Caleb and Joshua, dauntless souls, demand a hearing. They hush, for the moment at least, the murmur of incipient rebellion. They admit the difficulties, but at the same moment sound that bugle call of faith, "Let us go up at once and possess it, for we are well able to overcome it!" But the ten faithless explorers reiterate the inability of Israel to cope with the "giants," and the demoralization becomes complete. The complaint of the people about that water famine would have been justified if God had not already paved the whole wilderness with his deliverances. They ought to have been able to anticipate the devout exclamation of David, "The Lord hath been mindful of us—he will bless us!" Instead of communing with God, however, they fussed among themselves, with the proverbial result of distrust and bitter ness. The worst of it was that Moses himself lost poise and temper. His offense could not be condoned without lowering the moral tone of the whole people. His punishment was, therefore, exemplary. Balak introduces something brand new in the science of war. It consisted in an attempted concentration of malevolent thought—a concert of evil wishing against Israel—the psychological effect of which would be a subtle moral depression. Success depends on finding a prophet who could draw all into a league of hate. So Balak must have Balaam at any cost. Balaam's descent to hell makes a study in casuistry. His first step was vanity. The king's appeal flattered him. The second step was cupidity. The glint of gold blinded him. No human life was ever more full of scenic incident than that of Moses. From his wave-rocked cradle, onward, it was a march of stirring events. But climax is reached in his death. The event was designed to be exemplary. He was a lawgiver, but he was also a lawbreaker. He must, and do, suffer in the sight of the people the penalty of the law, which he not only gave, but which he also broke. The call was now imperative for a great, determined, tactful, and inspirational leader. Joshua was God's savior for his people. Good blood was in his veins. The natural equipment was supplemented by experience. He had been a slave in the brick yards of Egypt—had witnessed the miracles of the Exodus—had been Moses' lieutenant in the wilderness. It was no novice who stepped to the fore in this crisis hour. The ark, its golden surface glittering in the sunlight, is carried by priests, instead of Levites, and a thousand yards in advance, so that every eye could see it. Under the spreading wings of the cherubim, with their golden feathers, God's people were safe from flood and foe alike. When the feet of the priests, bearing the glittering palladium of Israel, dipped into the torrent, the floods stood still. So God opened Canaan to his people. God's plan for the capture of Jericho was mortifying to the pride of military genius. Joshua's faith shone in the test. He laid all his military science at the feet of the greater Captain. He made the Lord's plan his plan. He put it into execution, in spite of friend's protest or foe's ridicule. The result was one of the most decisive and memorable victories of all human history.

Dr. Mary Pennington, in charge of food research work of the department of agriculture, told the house agriculture committee that frozen and dried eggs would solve the problem of high prices and cold storage corners. "Frozen and dried eggs," said Doctor Pennington, "soon will be marketed in small packages, so as to be available to every household instead of for bakers and other manufacturers as at present. Hard frozen eggs will keep a year, and there is no question that dried and frozen eggs will ultimately displace the cold storage variety." Eggs cannot be kept in cold storage and be fit for food longer than ten months, she asserted, and added that dried and frozen eggs did not lose any of their nutritive value.

OUR FASHION DEPARTMENT.

ALL PATTERNS, 10 Cents Each.

THIS department is prepared especially for The Iowa Homestead. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompany each pattern. When ordering, all you have to do is to write your name and address plainly, tell us the correct number and size of each pattern you want and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Address all orders to The Iowa Homestead, Des Moines, Iowa.

6451 Boys' Russian Suit.—No garment has yet been found to replace the Russian suit and this example is one of the most practical. It fastens at one side and along the shoulder. The high neck has either a standing collar or a low turn-down one. Bloomer trousers are worn with the blouse and are given in the pattern.

The pattern 6451 is cut in sizes 2, 4 and 6 years. Medium size requires 2⅝ yards of 36-inch material. Price of pattern 10 cents.

5995 Ladies' Shirt Waist.—Linen, madras or China silk can be used to make this waist. It can be made with or without the box plait at the front and with either the long or short sleeves. The high or turn-down collar can be used.

The pattern 5995 is cut in sizes 32 to 42 inches bust measure. Medium size requires 2⅜ yards of 36-inch material. Price of pattern 10 cents.

5160 Ladies' Apron.—This apron is made with a bib which protects the front of the waist. The bib is made to be slipped on over the head and the skirt part of the apron fastens with string ties.

The pattern 5160 is cut in one size and requires 2½ yards of 27-inch material or 2 yards of 36-inch goods. Price of pattern 10 cents.

5932 Ladies' Dress.—What could be smarter for general wear than this stylish frock, carried out in any of the woolen materials. The dress is very easy to make. It has the fashionable shoulder tucks and closes at the front. The skirt is a three-piece model.

The pattern 5932 is cut in sizes 32 to 42 inches bust measure. Medium size requires 5⅞ yards of 36-inch material, ⅝ yard of 22-inch all-over and ⅜ yard of 24-inch satin. Price of pattern 10 cents.

5980 Girl Dolls' Set.—This set consists of a dress, a coat and a hat. The dress is made with short sleeves and low neck. Serge, cheviot or linen can be used to make this set with the trimming of contrasting material.

The pattern 5980 is cut in sizes for dolls measuring from 14 to 26 inches long. To make the set for an 18-inch doll it will require ⅝ yard of 36-inch and ¼ yard of 27-inch contrasting goods for the dress, ⅝ yard of 44-inch for the coat with ¼ yard of 24-inch silk for the hood and ¼ yard of 27-inch for the hat. Price of pattern 10 cents.

6460 Children's Apron.—The sacque design is always nice for little girls, especially when they attend kindergarten or school, as it entirely protects the dress underneath. This garment is quite plain and is high in the neck where there is a small collar. Two pockets are placed in front and sash ties fasten back the apron from the side seams.

The pattern 6460 is cut in sizes 2, 4, 6, 8, 10 and 12 years. Medium size requires 3½ yards of 27-inch material. Price of pattern 10 cents.

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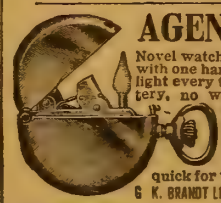

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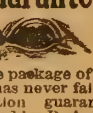

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St. Lambert Jersey Bull

CALVED in May, 1912, solid color. Registered. First check for $75 buys him. Write at once.
M. A. O'Brien, R. 2, Reedsville, Wisconsin.

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I CAN beat them all on price and quality on bull calves in crates. Also one mature herd bull and 2 yearlings. **Geo. S. Redhead, Des Moines, Ia.**

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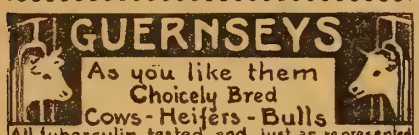
HAS a pure bred Jersey bull of serviceable age with a buttered pedigree. Priced to move quick. Write me at once, mentioning The Homestead,
WILL THOMPSON, R. 2, JESUP, IOWA

TWO REGISTERED JERSEY COWS; also a bull. Choice stock. Priced low. Address Norfolk Breeders Co-operative Assn., Norfolk, Neb

THE BEST JERSEYS—Some choice bulls, few females. Address H. C. Young, Lincoln, Neb.

GUERNSEY CATTLE.

GUERNSEYS



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All tuberculin tested and just as represented
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OUR DAIRY DEPARTMENT

ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

PROFIT LOST IN MILK.

"The farmer is getting about four cents a quart for his milk. The city consumer pays about nine cents. The solution is co-operative selling."

It was following his address to the Interstate Jersey Cattle Breeders' Association in Kansas City that Eugene Bennett, Missouri's dairy commissioner, gave this solution of the big-milk-bill problem.

"If the farmers would co-operate as they have learned to do in Wisconsin they would establish their own milk route and instead of giving some other man more than 100 per cent to market it, after they have done all the work of producing it, they would be able to furnish milk at reduced rates to the consumer and themselves realize a larger p ofit.

"Suppose twenty dairymen would put their product together and have one distributing system. Think of the saving in wagons and men and the reduction in running but one wagon up a street instead of several of them covering the same general route."

The remarks of Mr. Bennett in regard to the dairy possibilities of his state were greeted with warm applause by the Jersey breeders and they adopted a resolution indorsing his co-operative creamery and county dairy association plans.

"The dairy industry of any state must be developed by the average farmer," Mr. Bennett pointed out, "and nowhere in the nation will you find better cheap grazing land with such a climate as in the Ozarks. It is a shame that we are allowing this land to go to waste while we are sending our most vigorous young men away in search of room to grow up in.

"We don't need more room. There is hardly a Missouri farm either north or south of the Missouri river that could not be cut in two, and with the aid of good cows return its owner a better living than it does at present.

"The worst trouble with lots of Missouri farmers is that they think milking is a woman's job. They work themselves to death trying to grow grain enough to pay the loan they made until harvest, when they might grow half as much grain and milk a few cows and have money all the time."—[Kansas City Star.

CARE AND BENEFITS OF THE MILKING MACHINE.

To the Editor:

My observations in the use of a milking machine are that the cows stand better than by hand milking. After the fourth or fifth milking, cows known as bad kickers, look surprised and then stand quiet with the machine. The milking never excites the cows, and the working and noise of the shaft is all that bothers them the first few times.

I have never heard of one of these machines drawing blood and do not believe it will under proper management.

Each machine milks one cow at a time, but milks all four teats at once. Some people who desire to make quick progress with a few machines, strip a little after changing machine to next cow.

The machine under proper management will require no attention whatever for repairs for a long time, and then the parts which give out can be replaced at a very small cost compared with the general cost of extras on milking machines.

One person can easily operate three machines and the engine after he becomes familiar with the work, and the work is so light that a small boy can do it.

The connecting tubing is made of rubber, while the cylinder is made of brass and there may be an extra bucket to change with when the one used is full, and they may be changed at any time while the machine is in operation, it not being necessary to even discontinue milking while the change is made.

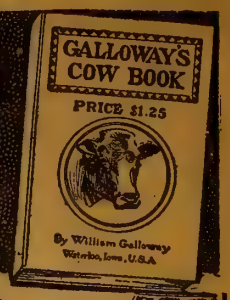
It is not at all necessary to have a special gasoline engine, as the machine will operate successfully with any engine that is strong enough to pull it when the correct size of pulleys are used to give it its rated speed, which is forty-five or fifty revolutions per minute.

The cost of fuel for operating a one and one-half horse-power engine, running three machines, will not exceed one and one-half cents per hour, as when properly installed, they are very easily operated. The operation is often done by means of a tread power, but, considering the cost of a small engine and fuel, would never advise tread-power operation.

The machines are not at all complicated. They weigh but a few pounds and are easily understood by a farmer of any reasonable mechanical ability on agricultural implements.

W. H. Ruther.

I Want To Send You This Valuable Cow Book Free!



Positively the only book of its kind ever written. A complete Manual of Dairying for the modern business farmer giving ALL of the best, modern, scientific dairying methods in clear, plain English. No theories—just the sound, practical money-making facts that every cow owner should know. This book is priced regularly at $1.25. FREE to you if you only write at once.

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The Capital, Topeka, Kansas, June 16, said: "When Maid Henry, the famous 13-year-old Holstein owned by the Kansas Agricultural College, was working so hard for the record of 19,600 pounds of milk and 835 pounds of butter in a year's time, dairymen prophesied that the Maid would be ruined. But Maid Henry returns to show that she is some cow even after breaking a record. She has a 114 pound male calf, born just the other day to prove it."

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BRED FOR PRODUCTION HOLSTEINS Herd headed by King Segis Pontiac Plus 94712. Some excellent young bulls. Nelson Bros., Stromsburg, Neb.

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HAVING purchased the females of the Barclay herd I can offer some handsome cows and heifers at reasonable prices.

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OUR HERD BULL, "Sir Gerben Pauline," the best butter-bred bull in Iowa. Dam's record, 33.78 lbs. butter 7 days, average test 5.24% fat. We have 15 bull calves, mostly sons of his, from one to twelve months of age. Dams are heavy and persistent milkers, many with large A. R. records
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FROM one month to fifteen months of age. Most of them by our great herd bulls. Many of them out of record cows. A choice lot of well-bred calves and good individuals. Send for price list. Also a few cows and heifers. All stock registered. No grades
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I WILL sell my entire herd of Holstein-Friesians nine females of breeding ages, five bulls and two young calves. They are strictly good, from the best lines of breeding, and all recorded or eligible to record. Will sell singly or in lots to suit purchaser. A low price for quick sale. Come and see them.
C. W. Barclay, Madrid, Boone Co., Iowa.

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THE very choicest lines of breeding represented bulls and heifer calves. Herd tuberculin tested
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SOME CHOICE HOLSTEIN BULL CALVES
WE have some choice Holstein bull calves, also some 15-16 grade bulls that we are pricing worth the money. All sired by a son of Colantha 4th Johanna Lad and out of good cows. Pocahontas Co. Home Farm, W. A. Elliott, Supt., Pocahontas, Ia.

HINTS-SUGGESTIONS-DEVICES

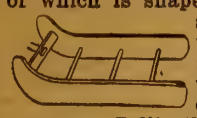
AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

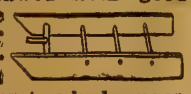
SOME SLEDS.

A sled may be made for use about the farm without the cost of much money. Secure poles from the timber that run about the same size from top to base. It will take four. Cut two of them seven feet and two nine feet. Bore holes in these with an inch auger at such intervals that there will be five holes in each. The holes in one of the short pieces must match the holes in one of the longer. Secure from smaller timber ten spokes about two feet long. Round these nicely at ends and drive in holes. After each pair of pieces are thus fastened together, a shoe for the runners may be made by splitting a hickory sapling in half. Sharpen the smaller ends and insert in holes bored in the ends of long upper pieces. These can be bent down along the runners and nailed or pegged to the runners. Then the runners may be held together by cross pieces, the ends of which are inserted in holes running perpendicular to holes for stakes. The tongue may be made out of a strong pole, the large end of which is mortised into the front cross pieces which should be six or eight inches in circumference. This sled may be used all winter and even longer.

Another sled may be made very cheaply if one can find a tree a part of which is shaped something like a sled runner. Chop the tree down and saw off just above the curve and at the desired length for a runner. Split this in half. Then hue down the outside until the runners are the right width. Then square off the edges. The runners may be fastened together by crosspieces cut the right length and inserted in holes bored in the runners at proper distances. The front piece should be large enough to mortise the end of a pole in for a tongue.

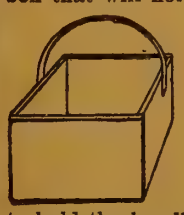


If one is close to a good saw mill he can have runners sawed from good oak timber. These can be put together by crosspieces inserted into holes bored with an inch or two-inch auger. The width of the runners should be three or four inches, so that the sled will be strong.



A Convenient Feed Box.

We have made a convenient feed box by securing from the grocer a box that will hold about a half bushel of grain. Then securing a limb from a tree split it in half and bend one half in a semicircle and fasten the ends to the sides of the box with small nails clinching them inside the box to hold the handle firm. It is no trouble to carry this box around and it takes the place of a basket.



To Keep Rats Out of Barrel.

Often the farmer will have grain in a barrel, and if rats are bad he will desire a covering of some kind. An old galvanized tub may be used for this purpose. Turn the tub upside down over the barrel. It fits tight and no rat or mouse can get inside the barrel of grain.

A Snow Plow.

After a deep snow in the winter a farmer is sometimes perplexed about making roads for himself and his stock. Here is a good plan by which roads can be cleared about the place. Take a couple of boards 2x10 inches. Bevel two edges so they will fit together then bolt them. They should slant out in the form of an A. Then pieces may be inserted in holes bored in the side pieces so as to hold them apart. A strong wire or chain can be inserted through holes bored in the point to which a clevis can be attached. Then a team can be hitched to this snow plow. A board can be placed across the top edges and the man can stand on this while he drives his snow plow anywhere he desires over the place. This will make a good wide path for stock and will prevent young stock getting their legs covered with the ice and snow. The farmer, too, will not be compelled to get his feet and clothing wet wading around in the snow.

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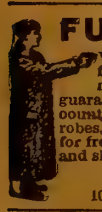

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Straight Talk on Plows—No. 3

In our previous talks on Plows, we have explained that the most vital feature of any plow is its share. Also, we have told you of the discovery of the wonderful ACME Steel which is used in making our famous ACME Steel Shares and Moldboards. Now let us consider this subject a little further:

Let us suppose you are in a store selecting a razor or a knife—you are undecided which one of the two to buy. They are practically the same price—each has an attractive handle and highly polished blade, but one has a fine steel blade that you can re-sharpen—it will retain its original hardness as long as you use it—while the other has a blade which will not hold an edge after you have sharpened it the first time and soon becomes dull.

Which one would you buy—the one that will stand re-sharpening, of course. All new plows are attractively painted—they all have their foot lift, etc.—the shares are all bright and sharp when new—in fact, to the naked eye there are several plows that look very much alike. So then in selecting a plow remember the SHARE is the blade of the plow and that is what you should consider, just as you do when you buy a razor or a knife.

You should demand a Plow with a Share that can be successfully re-tempered every time it is sharpened. You should demand a Share that you can keep as hard as new and with a sharp, keen cutting edge all the time.

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are the only Shares that can be successfully re-tempered after re-sharpening. They are the only Shares that can be kept as sharp and hard as new during their entire life.

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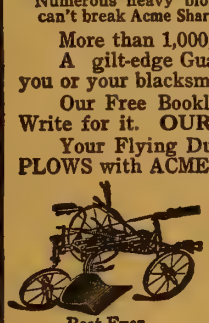

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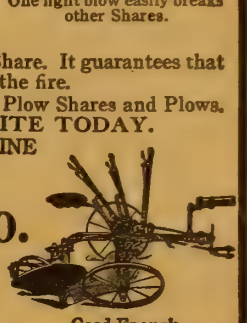

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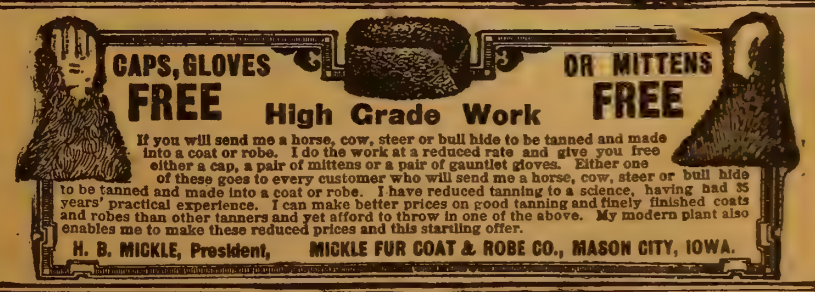

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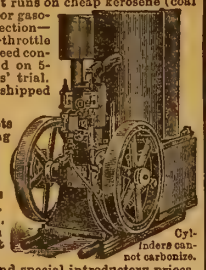

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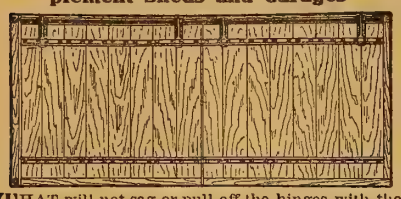

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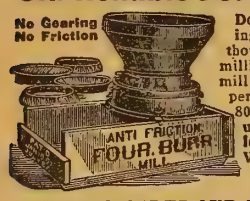

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The Future of Stock Raising in South America.

LARGE possibilities exist for future extension of South American stock raising and meat industries, according to Dr. A. D. Melvin, chief of the bureau of animal industry, who has lately returned from a tour of investigation at the instance of the secretary of agriculture. The department of agriculture has given out a statement telling of Dr. Melvin's trip and his observations.

Dr. Melvin's trip included Argentina, Uruguay and Brazil. In Argentina he inspected all of the establishments preparing beef for export with the exception of one which was not in operation at the time, and visited several large ranches. He also attended the stock shows at Rosario and Palermo, where many fine animals were exhibited. In Uruguay he visited one of the two large establishments, the other not being in operation. In Brazil he visited Sao Paulo and Rio de Janeiro, where a fine municipal abattoir has recently been completed, at which all of the slaughtering for that city is done. From Sao Paulo he went into the interior country.

The cattle slaughtered for export in Argentina and Uruguay are largely exporters of beef and mutton, for which Great Britain is their principal customer. Brazil, however, exports no refrigerated beef, although it supplies Central America and Cuba with a considerable quantity of cured beef known as "tasajo" or "jerked beef."

While statistics show that Argentina is already slaughtering up to the limits of its present stock of cattle, Dr. Melvin was impressed with the great resources of the country for cattle raising and believes that it will be possible for the stock raisers to bring about a large increase in the meat output if present prices are maintained.

Argentina, Dr. Melvin says, are fed no grain whatever, but are raised and fattened entirely on alfalfa pastures. For the most part the cattle are high grade stock, the predominating breed being the Durham, with the Hereford ranking second and the Polled Angus third in number. The alfalfa pastures are capable of supporting many more cattle than are the native "camps" or unbroken country. In a general way the cattle raisers estimate on two and one-half acres of pasture per head for growing cattle, and three to three and one-half acres for fattening cattle. These pastures support the cattle the year round without any further feeding except in occasional times of drouth or invasion of locusts.

Alfalfa, he says, is not being grown nearly as extensively as it could be. The extension of its growth, he thinks, will depend very largely upon the prices that the cattle raisers receive for their cattle. Because of present satisfactory prices the tendency now is to convert the grain lands into alfalfa pastures. As cattle raising is a much more certain enterprise than grain growing, the people prefer to raise cattle when the prices are remunerative.

"At the time of my visit," says Dr. Melvin, "cattle that dressed 820 pounds were sold for $74.80 gold. This grade of Argentine beef, which is of very high quality, is selling in England for from 8 to 9 cents a pound wholesale. Besides the price received for the meat, there is a considerable return from the hide and the offal, and since the entrance of American packers into the South American trade, these by-products are being carefully prepared and utilized.

"A very high quality of mutton is also produced in the Argentine, but at the time of my visit shipments were scarce on account of the floods, which were quite prevalent in sections of the province of Buenos Aires and farther south.

"Argentina for many years has been importing the best breeding cattle and sheep from Great Britain and today has some of the finest types in the world. Uruguay has a good grade of live stock, but they are not equal to the cattle in the alfalfa region of Argentina."

Dr. Melvin reports that the federal governments of both Argentina and Uruguay maintain veterinary inspection at all of the establishments are known as "frigorificos." United States packing firms own four of the large plants in these two countries and the competition between them and the native firms is keen. English capital is also invested in several of the establishments.

Municipal abattoirs with official inspection are maintained very generally at all of the South American cities of any importance, and in this respect these countries are ahead of the United States. Usually these abattoirs are owned by the municipalities, which conduct the slaughtering and provide inspectors, charging fees for the service.

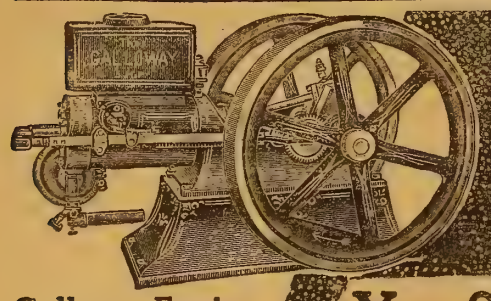
The cattle of Brazil, Dr. Melvin says, are not of such good quality as those of Argentina and Uruguay, and the stock is largely mixed with the zebu or east Indian cattle. This strain of blood is very readily seen in most of the Brazilian cattle.

IOWA SHROPSHIRE ASSOCIATION MEETS.

The annual meeting of the Iowa Shropshire Breeders' Association will be held at the Iowa Agricultural College on Tuesday, December 30th. An interesting program has been prepared and topics have been chosen that we believe will help every man who is interested in this great breed of sheep.

In this connection attention should be called to the fact that the winter short course begins the day preceding, viz., December 29th.

The judging of fat sheep will have the center of the stage on the day of this meeting, the program lasting from 9:00 o'clock in the morning until 4:00 o'clock in the afternoon.



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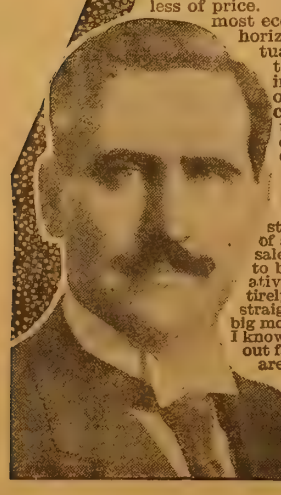

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THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep, to this office.

BUYING A BETTER RAM.

Most every agricultural lecturer on live stock topics tells the farmers who hear him that the male is half the flock. A German sheep breeder tested out this statement a few years ago and proved that with sheep at least the ram may be the making of the flock.

This shepherd purchased four ewes from a Wyoming range. At the time of the purchase, it was almost impossible to determine the breed of the sheep because they were so scrubby and so much run down. Nothing was known of their parentage, but it was very apparent from their appearance that they were the scrubbiest of the scrubby.

He mated these four ewes with a ram of very high character. He was unusually vigorous, a pure bred, and with breeding of the very highest quality. The first crop of lambs told the story. Seven were born to the four ewes and all of them resembled the ram. Of course, they were not pure breds, they were not perfect in all respects, but they were so far in advance of their mothers that you would scarcely recognize any relationship.

Not only were these lambs of high quality, according to the judgment of the shepherd, but they proved to be all he thought when he took one of them to the International Live Stock Exposition the following winter. In a class containing thirty-eight lambs of various breeding, one of these took second prize.

In selecting a ram of any mutton breeds, you naturally look for a well-built body. More important than this is the vigor. The ram should have a bright eye, a fearless expression, and a masculine appearance throughout. His body should be blocky, because it is the blocky body that produces the most meat. In fact, he should be the most near the ideal type of mutton sheep as it is possible to secure, with the addition of unusual vigor and constitution.

A ram with a narrow heart girth should not be used in a flock under any conditions. Narrowness just back of the fore legs indicates lack of constitution which is almost sure to have a downward tendency in the flock. Just remember that in the same way a good ram can bring up a flock, a poor ram will pull down the standard just as rapidly.

Because a ram lamb can be purchased more cheaply than an older animal, a great many men begin breeding too early. As a rule, good results are obtained from a yearling—that is, a ram a year and a half old, but the tabulation of the weights of all of the lambs born in a large flock showed that the lambs sired by the older rams averaged heavier at birth. Certain it is that it is not wise to use a ram under a year old.

If the flock is large, more than one ram should be kept. A good rule to follow is—provide a ram for each fifty ewes. If the ram is not unusually strong in constitution, however, even this number may prove to be too many. A ram that is overworked will not only be injured himself, but the last lambs will usually be found to be smaller than the rest and weaker in constitution.

WINTER QUARTERS FOR THE RAM.

There are not many farmers who would purchase a $2,000 automobile and let it stand out in the rain in a mudhole all winter, but there are many who pay a high price for a well-bred ram and treat him almost as badly as that.

How often it is that you go into a man's barn and finds in a dark, stuffy, narrow pen, way back in one corner, the head of the flock. The male of the herd, of course, should be kept by himself, but he needs sunshine, fresh air and a place to exercise just as much as the ewes.

The winter quarters of a ram should be such that he can keep dry, both overhead and under foot. At the same time, the more fresh air the better. Even an open shed will serve if it is entirely dry. A pen should certainly not be used that is less than fifteen feet square and if it is larger, so much the better. This will give the ram an opportunity to exercise and will keep him in good, vigorous condition.

During the summer months, when the ram is allowed to run on pasture, he does not need grain, but in the winter, if you expect to keep him in good, vigorous condition, he must be supplied with grain at least a month before the breeding season.

A mixture of two parts oats and one part bran has given unusually good results in some of the larger flocks of the West. This ration does not produce fat, but does keep up the vigor of the ram.

It is impossible to suggest the exact amount to be fed, for this can only be determined by watching the animal and studying his condition.

A CURE FOR PORK.

Before curing is begun, meat must be thoroughly cooled, but not frozen. If the animal heat is not out of it, the salt will cause shrinkage of the muscles. On the other hand, salt will not penetrate frozen meat, and uneven curing will result. The most suitable vessel for curing meat is a good clean barrel, tight enough to prevent leakage, though for small quantities a stone jar is good. According to A. M. Paterson, assistant in animal husbandry at the Kansas Agricultural College, dry-cured pork may be treated in this manner:

For 100 pounds of meat, thoroughly mix five pounds of salt, two pounds of granulated sugar, and two ounces of salt peter. Every three days the meat should be rubbed with one-third of this mixture, and after the last rubbing, it is left in the barrel for a week or ten days. Then it is ready to be smoked. This recipe should be used only when there is a cool and moist place in which to keep meat. If a warm or dry place is used, the preservatives do not penetrate evenly. For plain salt pork, every piece of meat is rubbed with salt, packed closely in a barrel, and allowed to stand over night. For every 100 pounds of pork, a brine is made consisting of ten pounds of salt and two pounds of salt peter dissolved in four gallons of boiling water. When the brine is cold it is poured over the meat, which is then covered and weighted down to keep it under the solution.

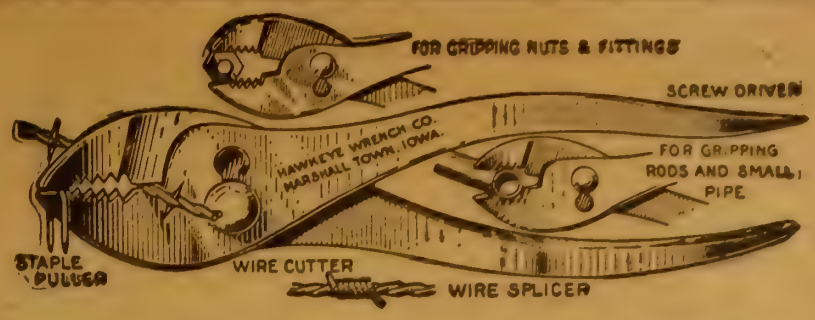
To prepare sugar-cured meat, rub every piece with dry salt and allow it to drain over night. Pack it in a barrel, and for every 100 pounds of meat add a brine of eight pounds of salt, two pounds of brown sugar, and two ounces of salt peter dissolved in four gallons of hot water. In summer, the brine must be boiled, but this is not necessary in winter. Let the brine cool before using. Bacon strips should be left in the solution from four to six weeks, and hams from six to eight weeks.

Sausage should be made of clean, fresh pork. To every three pounds of lean meat add one pound of fat, and mix them together by chopping. When this is done, spread the meat out thinly and season with a mixture of one ounce of fine salt, one-half ounce of ground black pepper, and one-half ounce of pure leaf sage, rubbed fine, for every four pounds of meat. The seasoning should be sprinkled over the meat and the two mixed together by running them through a food chopper. The sausage may then be packed in jars or casings.

If large quantities of meat are to be smoked, a permanent smokehouse is necessary, but for small quantities a large dry goods box serves the purpose. A smokehouse should be eight or ten feet high and should have plenty of ventilation, so that the warm air may be carried off and the meat prevented from overheating. It is best to have the fire pot outside, with a flue to conduct the smoke into the meat chamber, but if this cannot be arranged, the fire is built on the floor of the house and the meat shielded in some way. The construction should allow the smoke to pass freely over the meat and out, though too rapid a circulation is a waste of fuel. The best fuel for smoking meat is green maple or hickory smothered with sawdust. Hard wood is always preferable to soft, and resinous wood should never be used, for it will give meat a bad flavor. Corncobs are the best substitute for hard wood.

Meat to be smoked is removed from the brine two or three days before it is put into the smokehouse. Two pieces should not be allowed to hang in contact, as this prevents uniform smoking. After smoking has started, fire should be kept as constant as possible, for it there is any great variation in temperature, the smoke does not penetrate evenly, the outer portions being heavily smoked and the inner portions lightly. At all times the house should be kept dark to prevent flies and other insects from entering.—[The Kansas Industrialist.

Bobolink! The very words calls up a vision of daisies in the hayfields and white cumuli piled Ossa on Pelion. The bird is our skylark, the blithest bird in America, says South Dakota Kirkham. His song is audible sunshine; a perfect expression of pure joy, such as fauns and satyrs, rather than reflective beings, might experience. No human being—no other bird, perhaps—could feel or express a joy so spontaneous, unreflective, unalloyed, as this bubbling song of the fields seems to imply. When I listen it is to feel that the bird is ten thousand years younger than I; to realize that he is of the immortals and can never grow old, nor change, nor add a single note of age to that song of eternal youth.



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NEWS OF THE SALE RING

The Saunders Sale.

What was unquestionably the largest crowd seen at South Omaha since the Westrope dispersion a number of years ago attended the E. A. Saunders sale on December 16th and fifty-eight head were disposed of at an average of $150.86. The demand for bulls was quite strong and thirty-six head made an average of $175.41. The top of the sale was the white bull, True Cumberland 2d, sold by Charlie Mitchell, of Farragut, Iowa, and he went to Frank Toyne at $525 and he was a splendid bargain at that figure. His son, A Cumberland 385024, went to the Ashcroft Bros. at $400. The Saunders bull, Sultan's Count, went to D. J. Wenck at the same figure. A few of the very thin cattle sold low, but they sold for all they were worth, but as a rule the better things brought fair values. Col. F. M. Woods cried the sale, assisted by Col. Kraschel. Below we list those selling for $100 and above:

BULLS.

Sultan's Count 372507, calved March 1912; D. J. Wenck, Glidden, Iowa.. 400
Gloster M. 333425, calved Dec. 1908; John Ingalls, Shelby, Neb..... 155
Victor Goods 367193, calved Sept. 1910; B. W. Clausson, Red Oak, Iowa 230
Bonnie Boy 2d 386195, calved Nov. 1912; John Lee, Shelby, Neb..... 310
Scottish Marshal, calved June 1912; Herman De Bower, Schuyler, Neb. 180
Victor 386201, calved June 1912; Geo. S. Brown, Fullerton, Neb... 210
Red Royal 386198, calved Jan. 1913; Chas. Novatnay, Clarkson, Neb... 180
True Cumberland 2d 353050, calved June 1910; Frank Toyne, Lanesboro, Iowa 525
A True Cumberland 385024, calved Sept. 1912; Ashcroft Bros., Atchinson, Kan. 400
Roan Ringleader, calved Oct. 1912; Geo. Blodt, Minden, Ia..... 100
Burwood Goods 392198, calved May 1912; A. J. Bruneau, Great Falls, Mont. 155
Golden Burwood 392205, calved Feb. 1913; L. A. Stauren, Walnut, Ia... 200
White Stockings 389215, calved Jan. 1912; Antone Prince, West Point, Neb. 160
Red Star 389211, calved July 1912; W. H. Mitchell, Orilla, Iowa..... 155
Robt Lee 388787, calved Dec. 1912; O. Tafft, Avoca, Iowa 165
Victory's Pride, calved July 1912; H. H. Wendrof, Bancroft, Neb.... 130
Sultan's Model, calved March 1913; Suyler & Son, South Omaha, Neb. 150
Sultan's Pride 389213, calved March 1912; H. B. Cheney, Emerson, Ia. 145
King Sultan 389210, calved April 1912; C. E. Ballen, Emerson, Ia... 155
Mina's Lad 379660, calved Feb. 1912; W. C. Schwartz, Silver City, Ia.. 195
Roan Lad 390933, calved Sept. 1912; John Gramkow, Persia, Ia..... 110
Victor, calved Nov. 1912; A. C. Smith, Mullen, Neb..... 115
Belmont, calved Dec. 1912; John Norby, Bancroft, Neb..... 115
Nerissa's Goods, calved Nov. 1912.. 125
Stephen's Pet, calved Jan. 191[illegible] Sam Morgan, Jr., Henderson, Ia..... 165
Oakwood 12th, calved April 1913; C. F. Schwedholm, Bancroft, Neb. 100
Superbus Type, calved Aug. 1912; Geo. Frederick, Pierce, Neb..... 225
Count Superbus, calved March 1912; Wesnieski Bros., Dodge, Neb.... 180
True Superbus, calved March 1912; Ezra Bockenlower, Wakefield, Neb. 225
Golden King, calved Feb. 1913; H. H. Hiss & Son, Surprise, Neb.... 245

FEMALES.

Orange Queen of Custer, Dec. 1904; Louis Hetzel, Imogene, Ia..... 175
Azora, calved July 1910; P. W. Clauson, Red Oak, Ia..... 110
Miss Twinkle, calved June 1911; C. M. Watt, Emerson, Ia..... 115
Bluebelle, calved April 1906; Louis Hetzel 135
Romaine, calved Nov. 1909; C. M. Watt 145
Anita 5th, calved Nov. 1909; Hewig Fricke, Papillion, Neb..... 105
Leslie Belle 2d, calved Dec. 1909; G. H. White, Emerson, Ia..... 160
Charmer, calved June 1909; Henry Fricke 125
Favorite, calved April 1907; C. M. Watt 125
Flora, calved Dec. 1910; Edgewood Farm, Council Bluffs, Ia..... 100
Beauty Belle 4th, calved March 1905; Ezra Backenhouer, Wakefield, Neb. 105
Minnie, calved June 1910; H. C. Chandler, Essex, Ia..... 225

SUMMARY.

36 bulls ....$6,315; average....$175.41
22 females 2,440; average.... 110.40
58 head .... 8,755; average.... 150.86

The Judge Short-horn Sale.

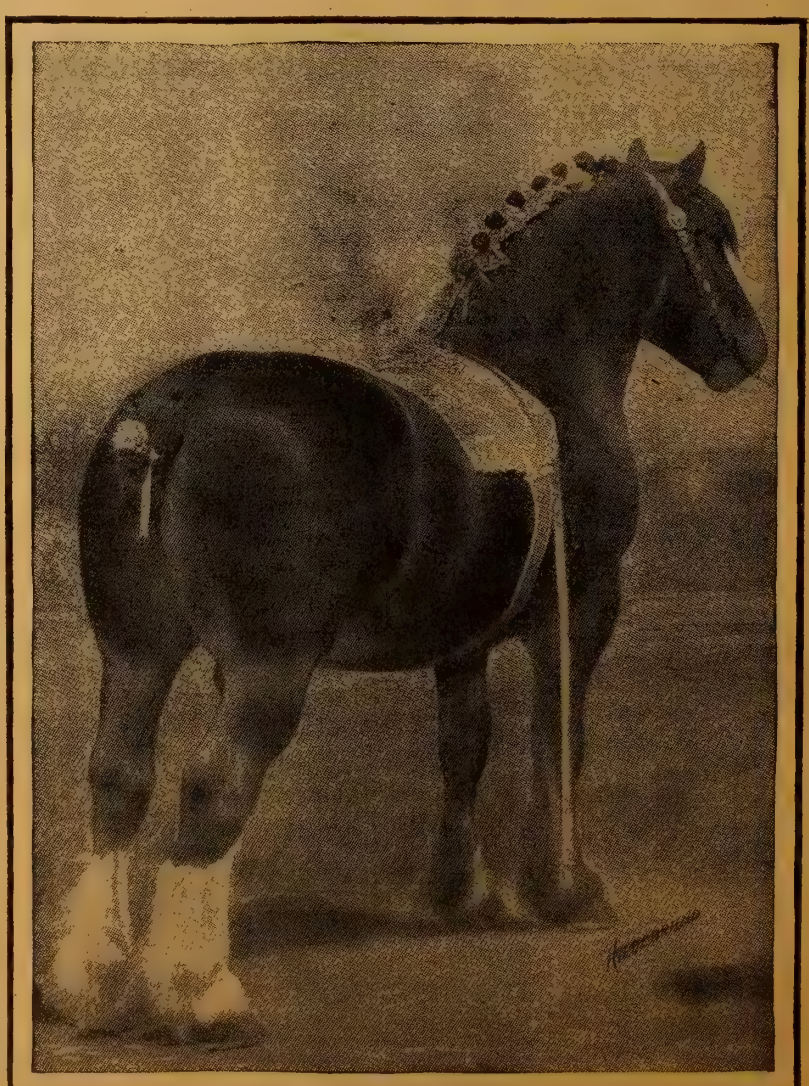
An unusually large crowd of breeders and farmers attended the sale of J. T. Judge, Carroll, Iowa, on December 17th, and he made an average of $226.49 on forty-seven head. His offering was high in quality, well filled, and well bred, and those who attented the sale showed their appreciation by bidding very liberally. The get of Sultan Standard, his chief stock bull, was sought after by the best breeders, and the prices paid for his young bulls and heifers in the sale was the best evidence that he is breeding to suit the most critical. Few sales this year have led cataloged a better string of young bulls than went through the Judge sale ring. The top of the sale was Sultan's Diamond, and he went to J. U. Cobb at $465. Sultan's March, an outstanding young white bull was purchased by Cahill Bros. for an even $400 and Sultan's Count. Another white bull calf just a year old went to W. H. Griffith at $415. He was one of the best things in the entire offering, and both of these white bulls were sons of Sultan Standard. Eight Sultan Standard bulls in the sale made an average of $283.75. It was the best sale Mr. Judge has ever made and he was well pleased with the outcome. Col. Woods cried the sale, assisted in the ring by Cols. McGuire and Foley. We herewith report the entire sale offering:

BULLS.

Sultan Diamond, calved Jan. 1912; J. U. Cobb, Correctionville, Ia....$465
Sultan's March, calved May 1912; Cahill Bros., Rockford, Ia..... 400
King Major, calved May 1912; Ed Huffman, Ida Grove, Ia..... 325
Walnut Victor, calved Nov. 1912; H. Smith & Son, Tobias, Neb..... 310
Standard's Court, calved Dec. 1912; W. W. Griffith, Lanesboro, Ia.... 415
Walnut Prince, calved June 1912; G. A. Stetzel, Audubon, Ia..... 225
Maud's King, calved Aug. 1912; John Hudson, Sheldon, Ia..... 195
Victoria's Sultan, calved Jan. 1913; J. W. Dugan, Kingsley, Ia..... 210
Sultan's Count, calved Jan. 1913; W. C. Meyers, Carroll, Ia..... 190
Sultan's Successor, calved 1912; Smith & Baumert, South English, Iowa 210
Diamond Miner, calved Oct. 1912; J. J. Fogerty, Central City, Ia..... 280
King Way, calved May 1913; Geo. Gramcow, Persia, Ia..... 105

FEMALES.

Buttercup, calved Sept. 1904; J. W. Barber, Skidmore, Mo..... 235
Victoria Blossom 2d, calved Jan. 1902; Frank Toyne, Lanesboro, Iowa 330
Miss Clear The Way, calved Feb. 1911; J. W. Eral, Pocahontas, Ia. 400
Maud, calved July 1909; Neal Blair, Dayton, Iowa 235
Gwendoline Queen, calved March 1910; Neal Blair 275
Butterfly, calved Oct. 1902; James Blair 200
Minerva Girl, calved July 1907; E. R. Silliman, Colo, Ia..... 210
Scottish Queen, calved June 1905; Drey Bros., Early, Ia..... 225
Marshal's Nonpareil, calved Jan. 1909; John Rasmess, Lake City, Iowa 265



The International grand champion Shire stallion, Lockinge Hengist, portrayed above, was sold last week by Trumans' Pioneer Stud Farm, Bushnell, Ill., to George J. Stoll & Co., Chestnut, Ill., for $11,500, the record price for a draft stallion. The horse goes into one of the best sections of Illinois and into the hands of men who are progressive farmers and horse breeders and who maintain a large stud of registered Shire mares.

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Violet, calved Feb. 1909; C. A. Oldsen, Wall Lake, Ia..... 305
Nonpareil May, calved March 1908; John Rasmess 240
Merriment Secret, calved Jan. 1909; J. W. Barber 250
Lady, calved Jan. 1910; J. F. Buckinstead, Dyersville, Ia..... 170
Miss Aberdeen, calved Jan. 1912; W. F. Barber, Skidmore, Mo..... 130
Missie 7th, calved April 1910; J. A. Richardson, Wall Lake, Ia..... 225
Nonpareil Lady, calved June 1911; Drey Bros. 170
Scottish Queen 12th, calved March 1908; Ed Silliman 195
Sunlight, calved Oct. 1903; W. F. Barber 215
Sunlight Lass, calved May 1909; C. F. Jones, Rippey, Ia..... 300
Lancaster Beauty, calved Jan. 1905; Frank Toyne 140
Knight's Gem, calved Dec. 1906; T. J. Coughlin, Exira, Ia..... 255
Caroline, calved Oct. 1902; Thos. Burns, Jr., Breda, Ia..... 140
Roan Ribbon 4th, calved Mch. 1911; J. A. Kilgour, Sterling, Ill..... 215
Roan Rose, calved Nov. 1911; W. F. Barber 200
Nonpareil Maid, calved April 1912; W. S. Handley, Carroll, Ia..... 135
Walnut Grove Missie, calved Feb. 1912; Neal Blair 165
Missie of Walnut, calved May 1911; E. B. Thomas, Audubon, Ia..... 210
Butterfly of Walnut, calved April 1911; J. A. Richardson 185
Lady Sunlight, calved July 1911; James Blair, Dayton, Ia..... 195
Lady Gold Hunt, calved Nov. 1911; T. J. Coughlin 240
Sultan's Buttercup, calved April 1912; W. F. Barber 125
Dara's Maid, calved May 1912; F. A. Shuricliffe, Charter Oak, Ia..... 155
Walnut Gem, calved July 1912; Glen Olson, Colo, Ia..... 100
Veronica Sulloness, calved Aug. 1912; J. W. Barber 145
Sempstress Rose, calved Sept. 1912; H. B. Hardin, Corning, Ia..... 10

SUMMARY.

12 bulls ....$3,330; average....$277.50
35 females 7,315; average.... 209.00
47 head ....10,645; average.... 226

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Browning's Duroc Sale.

A large crowd of breeders attended the holiday sale of H. E. Browning, Hersman, Ill., held at his "Idlewild Farm," December 18th. The sale was successful as the average indicates, but the show sows sold for less than their real worth. No. 3, High Private topped the sale going to head the herd of J. J. Baker, Independence, Kan. No. 18, Tattletale 39th, topped the sows, selling to J. Young Caldwell, of Illinois. M. E. Merfeld, Greene, Iowa, was a good bidder and buyer of the best that was sold. He secured No. 6, a boar pig by Volunteer at $202.50, No. 13, a great junior yearling show sow at $237.50 and Defender's Jewell, a great daughter of Defender out of Proud Jewel by B. & C.'s Col., second dam Chief's Jewel, an Iowa champion sow by Ohio Chief, at $215. R. G. McDuff, Monroe, Iowa, secured Helen Blazes 53d at $80, Lucy A. at $177.50 and Lady Volunteer at $72.50. R. H. De Vault, Bloomfield, Iowa, bought four head including a good spring boar by Disturber and out of a Tippy Col. dam at $145. Colonels Reppert, Igleheart, McGowan and Irwin sold the offering. A list of the sales is appended:

2. J. L. Fisher, Janesville, Wis..$150.00
3. J. J. Baker, Independence, Kan. 332.50
4. R. H. De Vault, Bloomfield, Ia. 145.00
5. Zimpleman Bros., Grass Creek, Ind. 70.00
6. M. E. Merfeld & Sons, Greene, Iowa 202.50
7. C. G. Oakes, Assumption, Ill. 60.00
9. Geo. Sentell, Bunkie, La..... 42.50
12. R. G. McDuff, Monroe, Iowa.. 80.00
13. M. E. Merfeld 237.50
14. Harding & Son, Brimfield, Ill. 192.50
15. Clark & Son, Brimfield, Ill... 165.00
16. Stewart & Siss, Tipton, Ind... 195.00
17. W. C. Jenkins, Bangor, Wis.. 150.00
18. J. Young Caldwell, Williamsville, Ill. 275.00
19. R. G. McDuff 177.50
21. M. A. McWilliams, Wall Lake, Iowa 97.50
22. E. J. Wilson, Rensville, Minn. 145.00
23. Van Meter Bros., Williamsville, Ill. 100.00
24. R. H. De Vault 55.00
27. M. E. Merfeld & Sons 215.00
28. Blackmere Bros., Erie, Ill.... 90.00
30. E. C. Stemen & Son, Middlepoint, Ohio 73.00
31. J. Adams, Rockport, Ill..... 41.00
32. J. G. Early, Flemingsburg, Ky. 51.00
33. R. H. De Vault 72.00
34. F. Bieth & Son, Joliet, Ill... 63.00
35. A. McNeil, Brawley, Cal..... 82.00
36. E. C. Stemen & Son 54.00
37. J. K. Hestor, Plains, Mont.. 100.00
38. D. Wallace, New London, Mo. 38.00
39. J. G. Early 100.00
40 Zimpleman Bros. 83.00
41. W. R. Stevens, Dunham, Mo. 69.00
42. A. E. St. Clair, Disco, Ill.... 60.00
44. R. G. McDuff 72.50
45. R. H. De Vault 80.00
46. W. C. Watson, New London, Mo. 62.00
47. W. R. Stevens 51.00
45 head .....$4,770; average.....$106

Business Methods for the Farm.

COMMON-SENSE business methods are as essential to the success of the merchant or manufacturer. No merchant could remain in business if he failed to supply the goods wanted by his customers; no manufacturer could exist if he made an article that did not pay for the expense of producing it, or if he left all his machinery in the yard around the shop to rust, yet some farmers expect to make a living by raising the same crops year after year, without trying to restore the slowly-diminishing stock of fertility. Still others expect to get a living by keeping an inferior grade of livestock that will not pay for their feed, and by leaving their implements out in the snow all winter. Comparatively speaking, a farm is like a violin, in that if it has received proper care, it becomes more productive and more valuable as it grows. We should treat our farm the same way we treat our bank; if we issue checks continuously against our account without making a deposit, our funds will soon be exhausted. If we raise crops continuously on our land without restoring the necessary plant food, the ability to raise a crop will soon be exhausted.

One of the great questions before the American farmer today is, "How can I maintain the fertility of my farm?" This is usually a local problem, but the general features are the same everywhere, and the farmer of today is learning to profit by the experience of others, as well as by his own experience. He is not using his hands less, but his head more, and by studying the underlying principles of successful farming he is raising in short rotation those crops which are best adapted to feeding livestock, and at the same time restore the necessary richness to the soil.

The greatest soil restorative is clover. It has been shown by experts that a ton of clover contains forty pounds of nitrogen and a ton of manure contains ten pounds; thus the business farmer of today finds it much more profitable to feed out his crops than to sell them for cash, as it makes the farm self-sustaining.

A careful man will use only the best seed that is adapted to his locality, for if care is taken in selecting clean seed and proper care is given same, much labor and loss by foul weeds and weak vitality will be prevented.

Good seed is a necessity, but no seed can give satisfactory results unless it receives good cultivation. Some farmers appear to be making a profit by using slip-shod easy-going methods, but the result is not due to any ability on their part.

To get the soil well cultivated, one must have the most efficient implements and know how to use them. It is one thing for a man to own many implements and another thing to know how to care for them. One can give a machine agent a roll of money for a binder or mower, but it is the man who is able to figure things out that knows a binder will depreciate more in value while standing in a snow bank all winter than it would from several seasons' wear in the harvest field. If those, from this state, were to go to Racine and should see the J. I. Case Threshing Machine Co. leaving all their machinery outside and their men working out in the open air, they would conclude the heads of that concern had lost their reason. It is just as reasonable and sane for the Case Threshing Machine Company to leave their machinery outside, as it is for the farmer to leave his binder, mower, rakes, plows and disc harrow behind his barn somewhere.

The man who is always planning ahead, will never leave the repairing of a machine until he needs the implement, but will send for it long before, so no delay will be necessary. An excellent time to look after repairs is on rainy days, when you are unable to work outside, for time is valuable when a crop is ripe and waiting to be harvested, so valuable, in fact, you cannot afford to spend it waiting for repairs.

The care and use of implements and the rotation and growing of crops are but two of the ways in which a farmer must use his ability. In truth, no detail requires as much thought or intelligence as livestock raising.

The subject of livestock raising is becoming more important each year, not only to the farmer who markets his fat stock, but also to the dairyman. It is a mistake to assume that dairying is in any way antagonistic to other classes of stock raising, because all branches run parallel. Good horses are in demand in both city and country and will be for many years to come, while the great mass of people in our cities are constantly demanding good beef, mutton and pork to such an extent that those who raise these classes of stock receive large returns; however, I have observed in passing over this state that at this day and age of expensive feeds and high-priced lands, many farmers do not pay enough attention to the breeding of good stock.

To make livestock raising a paying business, we must turn our efforts to producing some definite type of animal that is bred and adapted for a special purpose in view, and not to be contented with raising some poor, nondescript, criss-cross bred scrub.

Some farmers who own stock do not care for them properly. They force them to rough it through the winter by letting them pick their living from a straw pile, and stand under some open shed through a cold winter night. This kind of a businesslike man is usually denouncing the use of high-grade breeding stock and is always able to tell how much more his neighbor, who owns some inferior-bred stock, is making than he is, entirely forgetting that feeding and care are one-half and breed quality the other. The person who fails to combine these necessary qualities does not have a good paying business.

The business man on the farm realizes that with the increase in prices of feed and grain, his liabilities are increased and to make his position pay he must increase his resources. This he does by building a silo, which he uses as a vault for storing away his crop of golden corn. But storing corn in a silo is unlike the storing away of money, the corn crop will increase 40 per cent in feeding value by the time it is fed out as compared with the old method.

The good manager will never allow his stables to become dirty, for a clean, well-lighted and properly-ventilated barn not only means healthier stock, but also a good reputation. Therefore, every man who wishes to make a success of farming should apply every bit of business ability he has, his aspiration, inspiration and a reasonable amount of perspiration, for there is no occupation that requires more capabilities than is required of the farmer of today. He must be a manager, superintendent, cashier, clerk, mechanic and general workman. To fill each of these offices, he must have the managing ability of the manufacturer, combined with the care and shrewdness of the merchant.

The man who never cares whether his land is in good fertile condition, or his implements are housed, is usually the one who owns the scrub stock and keeps them in a dark, dirty unventilated barn. He is always complaining about the hard life of a farmer; it is he who spends his spare time at the corner grocer's store, exchanging tales of woe; who blames the weather as his crops yield less and less each succeeding year; the administration of government when prices are low, his failures to so-called "bad luck" and he is never able to do anything because he thinks he cannot afford it.

Now, the farmer who plans his work in a businesslike manner is the one who prospers, whose farm is increasing in value and who owns the fine, well-bred stock. He would not exchange his farm and business for any city position, for he knows there is no place where he can get as much real enjoyment in life and as large returns for his labor and capital invested. It is he who is directly helping to elevate this great profession of ours to a higher plane, also greatly in the estimation and respect of all other classes, and go to uplift country life toward that high standard where our Creator intended it should be, toward better things that enrich the mind and soul.—[R. E. Roberts in Wisconsin Farmers' Institute Annual.

KANSAS CHILDREN LEAVE FARM.

Kansas has not been following the preaching of the "back to the farm" movement. In the last five years the rural school population has decreased 13,881 and in the same period the city school population has increased a little over 16,000.

W. D. Ross, state superintendent of public instruction, has just completed the tabulation of the school population of the state. It is divided into the rural schools, two-teacher and third-class city schools, second-class cities and first-class cities. The rural schools have shown a steady decrease ever since the figures have been segregated, while the two-teacher, first and third-class cities have been showing about equal increases.

The general census figures show an increase in the total city population of the state for the last ten years and a small decrease in the rural population.

THREE BIG PAPERS $1.25.

The Iowa Homestead, Twice-a-Week Republic of St. Louis, the biggest and best semi-weekly in the Southwest, and Farm Progress, a big semi-monthly farm paper, sent a full year for $1.25. Send orders to St. Louis Republic, St. Louis.—Adv.

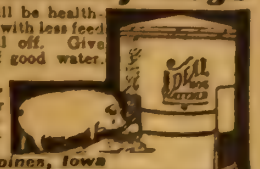
Clean Water at Right Temperature In Cold Weather Means Healthy Hogs

Hogs won't drink as much as they should if given cold water. When they are forced to drink it they shiver away the fat you have built with costly feed. Their whole system is chilled. They will be healthier and put on more weight with less feed if given water with the chill off. Give them a constant supply of good water.

Ideal Hog Waterer *Will Not Freeze in Coldest Weather*

Keeps water at just right temperature even on below-zero days. Water ready night and day. Heavy galvanized steel tank. Protected trough clean and sanitary. Simple. Practical. Inexpensive to operate. Automatic feed. Write for free literature.

National Manufacturing Co., 1723 Locust St., Des Moines, Iowa



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Grinders and have for Thirty Years but the new Ball Bearing, Fine Grinding, Light Running, Strong, Durable No. 12 is a Marvel. Grinds ear-corn or small grains, with Appleton or other 4 to 8 Horse Power Gasoline or Kerosine Engines.

Silo Fillers, Corn Huskers, Manure Spreaders, Wind Mills, Steel Tanks, Wood Saws, Steel Towers, Corn Shellers, Pump-Jacks, Corn Pickers, Corn Snappers, Fodder Cutters.

Send today for Free Circular of this marvelous Grinder and other Goods.

GRINDERS

LANDS AND HOMES

Land Opportunity

is for the man who carefully investigates before he buys. There are many large and small tracts of good land along the Union Pacific System Lines. Your land opportunity is among them. I will give you free authentic information concerning any of these tracts if you will write to me. It will pay you to investigate before you move.

R. A. SMITH,

Colonization and Industrial Agent, Union Pacific Railroad Co., Room 1189, Union Pacific Building.

OMAHA, NEBRASKA.

35 BUSHELS PER ACRE was the yield of WHEAT

160 ACRE FARMS IN WESTERN CANADA FREE

on many farms in Western Canada in 1913, some yields being reported as high as 50 bushels per acre. As high as 100 bushels were recorded in some districts for oats, 50 bushels for barley and from 10 to 20 bushels for flax. J. Keys arrived in the country 5 years ago from Denmark, with very little means. He homesteaded, worked hard, is now the owner of 320 acres of land, in 1913 had a crop of 200 acres, which will realize him about $4,000. His wheat weighed 68 lbs. to the bushel and averaged over 35 bushels to the acre.

Thousands of similar instances might be related of the homesteaders in Manitoba, Saskatchewan and Alberta.

The crop of 1913 was an abundant one everywhere in Western Canada.

Ask for descriptive literature and reduced railway rates. Apply to Supt. of Immigration, Ottawa, Canada, or Canadian Gov't Agent.

Frank H. Hewitt, 202 W. 5th St., Des Moines, Ia.
W. V. Bennett, Room 4, Bee Bldg., Omaha, Nebraska
R. A. Garrett, 311 Jackson St., St. Paul, Minn.

CHOICE IOWA FARMS, 80, 160 AND 240 ACRES. Edge live town 1,800 people, three railways, good market. Walking distance stores, churches, schools. $135 per acre. AUGUST POST, Pres., First National Bank, Moulton, Iowa.

VIRGINIA FARMS AND HOMES

FREE CATALOG OF SPLENDID BARGAINS

R. B. CHAFFIN & CO., Inc., Richmond, Va.

$12,000 BUYS 306 ACRES—35 miles from Buffalo; rich, black loam soil; 200 acres level, 60 acres timber, buildings worth $7,000. Including 32 cattle, team, fodder, tools. Easy terms. C. J. Ellis, Farmers Bank, Springville, New York.

100 CHOICE farms in the garden spot of South ern Minnesota, where corn is king. Price $60 per acre and up. Prices advancing rapidly. Come now. Free list. The Paffratt-Schmid Company, Springfield, Minnesota.

FOR SALE Eastern North Dakota, slightly rolling quarter section; black soil. No improvements. One mile from county seat. Inquire Miss M. C. Roskoten, 211 South Jefferson Avenue, Peoria, Illinois.

FOR SALE! 50 BU. (more or less) carefully selected seed corn, White, at $2.50 per bu. Must sell now, because I need my drying shed for something else. Will sell any small amount to farmers. Address GEO. KRUSE, GEORGE, LYON CO., IOWA.

ALSIKE CLOVER AND TIMOTHY $5 PER BUSHEL

AYE BROS., Box 1, BLAIR, NEBRASKA

Eastern Kansas Bargain

240 ACRE stock and grain farm, Linn county, Kansas. Two miles from station on main line of Frisco R. R.; 5 miles from county seat; 78 miles south of Kansas City; 120 acres in cultivation, more can be; fenced and crossed fenced; 9-room, extra well-built house; new tenant house; good barn; cattle barn; other farm outbuildings; fine water; on R. F. D. and telephone line. Price $75 per acre. Terms. We have wonderful bargains in unimproved and improved Arkansas lands. Address

CHAFIN-COLVIN LAND CO.,
Perry - - - Arkansas

FOR SALE Good dairy farm of 200 acres, 1½ miles of Kirksville, Mo., where we have good public schools, also State Normal and School of Osteopathy are located. A thriving city surrounded by a good farming community. We also have some good improved 40 to 160 acre tracts, low prices and good terms can be made. For particulars write to KIRKSVILLE REALTY COMPANY, KIRKSVILLE, MISSOURI.

LOOKING FOR A FARM?

FINE Improved Farms at Low Prices. No crop failures. Excellent people. Good schools, with State Normal at County Seat. Just the community to live in—Nodaway County, the leading Agricultural County of Missouri. Write

THE SISSON LOAN & TITLE CO.,
Maryville, - - - Missouri

TO RENT Sickness in family compels me to rent my three corn-belt farms, which are in excellent condition as I have been handling them myself. Near Darfur, Cottonwood county, Minn.; one of 320 acres, well improved; another of 400 acres, well improved, and my famous 840-acre "Gold Field Farm." Chas. W. Stark, Mountain Lake, Minn.

MINNESOTA, greatest dairy state in Union. Millions acres wild land in best dairy section of state can be bought cheap; long time; easy terms. State school lands, free homestead lands, improved farms. Maps and literature sent free. Fred D. Sherman, Commissioner of Immigration, Room, 208 State Capital, St. Paul, Minn.

AUCTIONEERS

LET us sell your farm and other real estate at auction. We are making successful sales for others. CAREY M. JONES & CO., Auctioneers, 14 N. Sacramento Blvd., Chicago, Illinois.

CENTRAL MINNESOTA

CASS, Todd and Morrison counties, best place for corn, cattle and clover. Good clay loam soil, very fertile. Lies fine. Pure water. Healthful climate. Price $10.00 to $30.00 per acre. Easy terms. Write for list of bargains. Address
Chase Brothers, Box F, Motley, Minnesota.

FOR SALE Wisconsin farm of 140 acres, southwestern part of state, near creameries, churches, good schools. Good land, good bldgs. J. C. Schubert, Madison, Wis.

If You Want A Home in the best corn, clover, blue grass and fruit country on earth, send for list of 500 Iowa farms. J. E. Hamilton, The Honest Land Man, Winterset, Ia.

MISSOURI FARM LANDS. No better grain and stock land anywhere. Write for list and prices Fulton Real Estate Agency, Fulton, Missouri.

Live Stock and Commercial Field Notes

Collected by Representatives of The Homestead

SHANKS' great Duroc sale.—One of the greatest offerings of Duroc Jersey brood sows that has ever been listed for a sale in the Northwest will be sold by W. N. Shanks, Worthington, Minn., on January 14th. It is an offering of forty head that might be termed "queens of the breed," and it furnishes a variety of breeding that is seldom seen in one sale. Not only is he selling a high-class lot of sows, but they are bred to an exceptional lot of boars. Twenty-five head in the sale will be bred to the champion boar, High Model, regarded today as one of the greatest Duroc Jersey boars now living. This is the hog that was shown so successfully by the Waltemeyer Bros., in 1912 and 1913 and Mr. Shanks purchased him in their fall sale at a figure that was right close to the $1,000 mark. He was first and champion at Iowa and South Dakota fairs in 1912, and first in class at Minnesota and the International fairs the same year. Last fall he was first-prize aged boar at the Iowa and Nebraska State Fairs, and he was an awful hard hog to beat for championship honors at these same fairs. There are many things about this boar that make him one of the foremost of the breed today. In the first place he is bred right, being a son of that noted grand champion boar, Golden Model II., and out of an Ohio Chief dam. Then again he is a hog of great size and depth, with plenty of bone, and this is what they are all after today. When you get a boar with all of these qualities, and with his great reputation as a show winner, then you will most certainly want to buy a sow that is bred to him. In this offering you will find some of the best sows you have ever seen sell in a public sale bred to this boar, and if you are a breeder who is striving to get at the top you cannot well afford to miss getting one of them. Among the good sows he will sell is Crimson Rose Again, a daughter of the celebrated champion and sire of champions, Crimson Wonder Again, and we think she is one of the greatest daughters of this great boar that we have ever seen. She goes in bred to High Model, and she herself is a show sow of unquestioned merit. She will be one of the outstanding sows of the year, so go to the sale and see her sell. He sells two other good sows that are both daughters of Crimson Wonder Again, and both of these are bred to High Model. He is also selling R. J.'s Medium, a daughter of Chief's Protection, and she is the best sow that R. J. Harding sold last winter. She is also bred to High Model. Another good one is Golden Model Queen II., a daughter of Golden Model II., and her dam is Model Queen 2d, champion sow at Sioux City in 1911. This sow is bred to his good young boar, Gano, that in turn is a son of the noted boar, Col. Gano, and out of the Harding sow just mentioned above. Model Chief's Lady is a daughter of old Model Chief and out of an Advancer dam. She has been one of his very best brood sows and she will be bred to High Chief for an early litter. Three fall sows sired by his former well-known show and breeding boar, Model Chief II., are among the very best and most desirable sows he will sell in this sale. The dam of these sows is Red Maid, tracing back to old Dale, the Minnesota champion boar a number of years ago. These three sows are simply of the outstanding kind and we want you to take particular notice of them when you go to the sale. He is also selling three very choice King the Col. gilts and two choice gilts by Missouri Model Top and all of these are bred to High Col. He is also selling ten choice gilts by Chief's Model Jr., an Iowa State Fair winner last year and these are all bred to Gano. From what he have told you about this offering you can very readily see he will sell a great offering of brood sows and it will pay you to attend his sale or be represented with a bid. Write Mr. Shanks for a copy of his catalog at once and kindly mention The Homestead. Bids sent to M. T. White, Homestead representative, in care of Mr. Shanks will be attended to on day of sale. See advertisement on page 28.

CHESTER WHITE swine, or as they are known, O. I. C. hogs have been deservedly popular for many years, probably as long as any of the improved breeds of hogs today of American origin, and of recent years many new men have become supporters of this breed. There are many good herds in Nebraska, probably as many in proportion to the number of swine raised as in any other state, and among these good herds we wish to mention the one owned by Chas. H. Murray, Friend, Neb. Mr. Murray has been in the pure-bred swine business for several years and is a good stockman and has supplied good stock to hundreds of readers of The Homestead. Right now we wish to mention that Mr. Murray is making some especially attractive prices on fall pigs, also some spring and summer boars as well as bred sows of almost any age. Mr. Murray's herd is clean from any disease, and he keeps it that may by the simultaneous method of vaccinating. By not allowing any disease to get a foothold, his herd is kept up to a high standard. The herd boars in use are U. S., Fairmont Chief and a couple of newer additions. The most of the stock is sired by the two boars named. Mr. Murray is a good man to do business with and will give his personal attention to all correspondence as to the selection and shipping of stock purchased. Write at once for further particulars and mention The Homestead.

DAVIDSON'S annual public sale of Duroc Jersey sows will be held at Algona, Iowa, January 10th, as per announcement on page 29. Mr. Davidson is one of the old-timers and one of those who insist upon breeding quality rather than over-fitness in the herd as well as in the show rings. He is not putting forward a big offering this year, but he is presenting a bunch of good sows that carry a greater percentage of the blood of Crimson Wonder I Am than can ever be gotten together at any other time or in any other hands. Of course everybody knows that Crimson Wonder I Am has been the source from which have come a greater number of champions in the show rings of several past years than can be credited to any other sire. Five mature sows, daughters of this old hog, will be included in this sale. These are I Am A Crimson Wonder, Peerless Block 6th, Fancy Wonder, Doubly Worthless Wonder and one other. There will be fourteen yearlings by Golden Model Jr., and from Crimson Wonder I Am dams. Spring gilts will be by the same sire. These sows will have been bred to Golden Model Jr. and Crimson Wonder Am I. Golden Model Jr. is by Golden Model and a half brother to the noted Golden Model 2d. He has been a wonderful producer and his pigs show excellent proportions and very neat heads and ears. Crimson Wonder Am I carries 87½ per cent of the blood of Crimson Wonder I Am and is very close to the old Crimson Wonder foundation. For catalogs write to U. G. Davidson, Algona, Iowa. Those who are unable to attend may send bids to C. C. Carlin, of The Homestead.

THE annual sale of all breeds of draft horses at Bloomington, Ill., Jan. 27, 28, 29 and 30th. These sales have been established fixtures for the past decade and the buying public has come to recognize them as the place where plenty of horses for all classes of buyers are to be found. For the coming sale Manager Hurt states that one of the best lots of animals yet offered at Bloomington will be offered. As usual the Percherons will largely predominate as to numbers, but there will be plenty of Belgian Shires and Clydesdale horses, so that admirers of all the breeds will find something to meet their wants. The closing day will be given over to ponies, standard bred and general purpose horses. The catalogs will be sent to any address upon application to the manager, C. W. Hurt, Arrowsmith, Ill., as per the advertisement on page 38

MAMMOTH jacks and jennets will be sold by G. C. Roan, La Plata, Mo., on March 9, 1914, at his Clover Leaf Valley Jack Farm, La Plata, Mo. Mr. Roan writes that he has purchased the entire number L. M. Monsees & Sons had expected to sell and these will be included in his sale. In future announcements we will tell of the offering. Catalogs will be ready February 1st. If interested write Mr. Roan now to put your name on his mailing list and kindly mention this paper when doing so.

DE YOUNGS' Duroc sow sale.—It is with pleasure we call attention to the Duroc Jersey brood sow sale of A. J. & L. L. De Young, at Sheldon, Iowa, on January 13th, when they will sell fifty-eight head of well-bred and useful sows and gilts. This offering is the pick of these two good herds and they are selecting some of the very best they have for this sale. There will be ten tried sows, ten fall yearlings and thirty-eight head of spring gilts. They will be bred to Cherry Wonder, a son of the old champion boar Crimson Wonder Again; Crimson King, a son of Crimson Sol, and Crimson Perfection, a descendant of old Crimson Wonder I Am. The gilts in their offering will be sired by Big Bone Climax, Crimson Sol, King of Cols. Again and Model Chief I Am. The fall sows will be sired by Crimson Advance. Among the good tried sows they are selling is Our Choice, a full sister to the first-prize sow at the Sioux City Fair last fall. This is a very choice sow herself and has been one of their best brood sows. She is bred to Model Chief I am, and she is a right good proposition to buy. Princess Arcadia is a two-year-old sow and is a daughter of De Young's Indicator. Here is one of the very best sows in their herd and she goes in bred to Model Chief I Am. Crimson Lass, a spring yearling sired by Crimson Advance is one of the few sows they are selling bred to Big Bone Climax and she is a very smooth sow. Sheldon Essie is a daughter of De Young's Col., he by King of Cols. Again and she is bred to Model Chief I Am. Golden Huffie is a March yearling out of a dam by old Achiever and she is bred to the Cherry Wonder boar. Fancy Muncie, another March yearling, is a daughter of Muncie King by Muncie Chief and she is the dam of the litter that brought $300 in their last sale and that was her first litter. She is bred to King-of Cols. Again, and you can take it that this sow will be a good one to put into a herd. Model Beauty is a daughter of the show boar, Golden Model 11th and she is out of a dam by King the Col., so you will see she is one of the best bred sows in the sale. She is bred to the Cherry Wonder boar. Another good sow we want to call attention to is Sheldon Belle, a daughter of King of Col. Again. Her dam is Improver Belle by Young Improver by Frankfort K. She is one of the largest and one of the best brood sows in the sale. Altogether these boys are selling a splendid lot of sows. Write for their catalog at once and kindly mention The Homestead. See advertisement on page 36.

GOOD sales are reported by Taylor and Jones, Williamsville, Ill., who state that buyers in looking for good horses are daily visitors at their place. Among their recent sales was one of two exceptionally good stallions to E. J. Weigel, Kingsville, Ont. Other buyers were George Ross and P. J. Teffer, both of Sangamon county, Illinois, and Samuel T. Perry, of Rock Island, Ill., each of whom bought a good Percheron horse. They write: "Anyone wanting a Percheron Belgian or Shire can find some of the best bargains in our barns that have ever been offered. We have weight, quality and high finish in all three breeds, and anyone looking for their money's worth with a guarantee backed by responsibility will find our horses to fit all conditions. See advertisement on page 33.

THIS week we are calling attention for the last time to the sale of Short-horn cattle that will be made by O. E. Wade, Rising City, Neb., the sale to be held in the sale pavilion in Columbus, Neb., on December 30th. In many respects this is one of the important sales of the season for central Nebraska. In point of individual merit, there has been no offering sold this season that surpasses them. As to pedigree, there are some that are pure Scotch and a number that are of so-called pure Scotch breeding and the remainder are cattle of really excellent pedigree, coming as they do from a long line of truly great ancestors, which after all should constitute the really good pedigree. There is a roan bull, a most excellent individual and of the Cruickshank Eliza family, that goes in this sale. He is a little past two years. He is sired by Roan Goods a son of Best of Goods. He carries the blood of the very best Scotch bulls and is a sure breeder of the very best type of stock. There are a number of extra choice, sappy young bulls that are sired by Rosebud's Star. They constitute one of the best bunches of bulls that we have seen in a long time. They are really a valuable lot and should be taken by those looking for really good thick-fleshed stock. We know of no better. The cows include a long list of extra select ones among them the great Scotch cow, Golden Queen 2d, got by Nonpareil Victor, and tracing to Imp. Princess Alice by Field Marshal. This is a most excellent cow and has a young bull calf at foot, a fine one sired by Roan Goods 2d. Golden Queen 4th and Golden Queen 5th are both Scotch cows and extra good ones. We cannot mention all the other good cows in this sale, but we want to say that for big roomy cows, that show in every line that they are producers, and good milkers, right in the prime of life, we know of no better place to make investments. Arrange to attend this sale, or send buying orders to J. C. Price, representing The Homestead at this sale.

WORD just received from Lee Bros., Harveyville, Kan., whose sale of Percheron horses will take place in the new sale pavilion at the agricultural college, Manhattan, Kan., Tuesday, January 27th, announces that the sale catalog is now in the hands of the printer and will be ready for distribution soon. This sale will be of unusual interest from the fact that the entire show herd owned by these breeders will be sold in this sale with the exception of the herd stallion, Scipion 27123 (43667), and the American Royal champion mare. This mare was sold and shipped to Honolulu immediately following this show. Our readers are familiar with the show record made by this herd during the past season. The mare offering in the sale will include ten two-year-old fillies, eight three-year-old fillies and four aged mares, all bred to Scipion, also one under-year filly and three yearling fillies. The stallions will consist of two aged horses, one three year old, four two year olds weighing over four tons, four yearlings that will weigh from 1,400 to 1,700 pounds on sale day and two of the herd's very best weanlings. Every horse that will be listed in the catalog is sound with the exception of one wire-cut filly. The roan two-year-old stallion and gray two year old that attracted so much favorable attention during the shows will go into this sale weighing over 2,100 pounds each. Watch these columns for further announcements and send in your name and catalog will be sent you when ready. Kindly mention this paper when writing.

DRAFT horses of all the breeds, both imported and American bred will be offered at public sale at Streator, Ill., Feb. 3, 4 and 5th, under the management of the Breeders' Sale Company, an organization recently formed by a number of prominent and reliable horse men in that section of Illinois. They have more than enough entries now to assure them a very successful sale. Their list will not close until January 2d, and any of the readers of our papers looking for an outlet for surplus stock of horses will find this sale a good opportunity, while buyers should bear in mind the fact that a very large number of desirable horses will be presented for appraisal at whatever price the buyer may see fit to place upon him. Streator is very nicely situated as a sales center being located on five different lines of steam roads and one interurban railroad. The sale will be held in commodius quarters right in the heart of the city with ample accommodations to take care of the crowd in a satisfactory manner. Further particulars will be given in later issues of this paper. Any desired information can be secured by addressing the secretary, Mr. T. F. Kennedy, Streator, Ill., as per the advertisement on page 32.

PERCHERON horses and Short-horn cattle have long been the favorites of American stockmen and no place have they found greater favor than among those of the middle states. Events of more than ordinary importance arise in rapid procession, but none should overshadow the sale of some thirty Percherons and about fifty Short-horns that will be made by Dan Cahill, St. Edward, Neb., on February 19th. Mr. Cahill has ordered this date taken for his sale and further notices of the same will appear in The Homestead in due time. Should you write him concerning this stock, mention The Homestead.

A REMARKABLE event in dairy cattle circles is the completion of the second greatest junior three-year-old Hol-

Field Men for The Iowa Homestead

M. T. White, western Iowa, and northeast Nebraska. Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota and swine division in Illinois. Address 2714 High St., Des Moines, Iowa.

Fred V. Johnson, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 924 Hearst Bldg., Chicago, Ill.

A. T. Cole, Missouri. Address 3900 Holmes St., Kansas City, Mo.

John C. Halderman, Kansas. Address 4347 Harrison St., Kansas City, Mo.

J. C. Price, southern, central and western Nebraska. Address 145 S. 28th St., Lincoln, Neb.

C. C. Carlin, special assignments in central, southern and northern Iowa, Address 715 Clinton Ave., Des Moines, Iowa.

H. S. Hoard, Wisconsin. Address Room 201, Washington Building, Madison, Wis.

To Patrons of Our Advertisers.

ADVERTISERS always like to know the source from which their inquiries come. It will therefore be of mutual advantage to the advertisers and to the publisher of this paper if those who answer advertisements will kindly say, when writing, that the advertisements were seen in The Iowa Homestead.

stein record in the world by Buffalo Aaggie Beets, a heifer bred and raised on the Chicago Stock Farm. Writing with reference to this record, R. B. Young, proprietor of the Chicago Stock Farm, says: "Buffalo Aaggie Beets started the year test at the age of three years three months and three days and in 365 consecutive days made a record of 932.44 pounds of butter from 22,485.7 pounds of milk. In butter she was only excelled by the heifer Dutchland Changling Colantha Lad, that made 945 pounds of butter in her year, and in milk she was only excelled by the heifer, Dutchland Colantha Mona, that made 22,645.6 pounds of milk in her year. Buffalo Aaggie Beets should have made a larger record, but negligence of the herdsman, who caused milkers to be changed on her many times, caused this record to be less than it might have been. However, I am proud of this heifer and of the work she has done, proud to have bred and raised her and proud to have developed her and to own her. I also own the dam and grandam of this heifer. The dam is Aaggie Johanna Rue, that as a four year old made 945 pounds of butter from 20,343 pounds of milk in one year. This cow was born on the farm, developed and tested by me. They are both large and well developed and choice animals in every way. I have a large number of females of this family and they are uniformly great producers. I consider the family one of the most desirable of the breed because of their rugged constitution and great digestive ability and capacity, fine udders in both quality and shape and, last but not least, their indomitable persistence at the milk pail. The heifer, Buffalo Aaggie Beets, finished this wonderful record in fully as high flesh as when she freshened. Her record has again demonstrated that truth so forcibly driven home by Banostine Belle De Kol, the famous world's record cow that made 1,322 pounds of butter in her year, that persistency and not a great flush at freshening, is what makes great cows. I also wish to state that, barring accidents, this is not the last great record expected from Buffalo Aaggie Beets." See advertisement on page 20 and for particulars or prices write to R. B. Young, Buffalo Center, Ia.

SHIRE horses of the best breeding and outstanding individual merit will be offered at public sale at Bushnell, Ill., Thursday, January 15th. These horses are the propetry of C. C. & R. W. E. Williams and the F. M. Williams estate, and the sale is made necessary in order to settle up the affairs of the estate. Under other conditions the horses would not be offered at any price. Thirty-two head are listed, consisting of seven stallions from weanlings to four years old and twenty-five mares and fillies. In this list are two champion mares. A very enviable reputation for producing high-class Shire horses has been achieved by the Williams establishment. The coming sale is the first time they have ever offered any of their horses at auction, and the merit of the animals they will sell is of such a nature that they should command the attention of every farmer. There is no question but what the price of good draft horses is bound to get higher instead of lower. The rapid development of the country and particularly of the farming industry, means the constantly growing use of more horses. Good drafty geldings were never as scarce or as high as they are at the present time, and the farmer who is wise enough to buy one or more spans of good registered draft mares is the one who will reap the benefit of the high prices for horses, as well as having the heavy work on his farm done by the producing mares. The horses that Messrs. William will sell at Bushnell on January 15th will stand the closest inspection and we recommend them to our readers wanting Shires of the right type and proper breeding. The advertisement is on page 32, and catalogs can be secured by addressing C. C. & R. W. E. Williams, Box 107, Bushnell, Ill.

TO OUR readers who are interested in the purchase of some new fencing we would suggest that they look up the advertisement of the Brown Fence, page 12 this issue. They claim a special galvanizing process through which every rod of their fence is put. It is said that the wire itself is Basic Open Hearth Steel which is naturally porous, and this is drawn through the galvanizing spelter very slowly so the galvanizing becomes an actual part of the wire. They also carry a full line of farm gates, self-raising gates, lawn fence and gates. Write them for free catalog. Address The Brown Fence & Wire Co., Dept. 34, Cleveland, Ohio.

CHARLIE STEELE'S Duroc sale.—One of the good Duroc Jersey brood sow offerings that will be sold in northwest Iowa this winter will be that of C. R. Steele at Ireton, Iowa, on January 17th. It will be remembered that Mr. Steele won first prize on the Missouri Model Top spring boar at Sioux City last fall and he is offering a great line of sows bred to this hog. You will be interested in seeing his catalog. Write for it at once and mention The Homestead.

PULLING 100 stumps a day is said to be an easy job when the Hercules stump puller advertised on page 12 is used. It is not only a profitable machine for the farmer whose land is cleared, but it is a money-maker to the man who operates it. Our readers may obtain a book containing a great deal of important information on stump pullers by writing to Hercules Mfg. Co., 141 22d St., Centerville, Iowa.

THE Wm. Weis herd of A. J. C. C. Jersey cattle is to be sold Jan. 7, 1914. This event should attract the attention of every lover and breeder of these faun beauties within any reasonable distance. This sale will be a notable even in Jersey circles, because of the long line of fine breeding back of the animals, and too because of the opportunity it offers to procure so many daughters of these noted bulls, and also dams, daughters, and granddaughters. Mr. Weis has owned the herd two years, and during that time, there has never been a female purchased. He has relied wholly on the natural increase of the herd to keep his barn full. To do this he has purchased bulls of excellent breeding such as, Commodore Tonnenton, Olymphs Coffee Pogis Coffee, Bill McRioter, Farmers Son, Counts Commander and other equally famous. His herd therefore consists of animals descending from these great bulls. The conformation of the cattle, is equal to the breeding back of them, as they have inherited the characteristics which have made these so noted. With but one or two exceptions, they are of the large American type, straight top lines, with no droop at the rump, great spring of rib, and heart girth are their characteristics. The udders are the true Golden Fern, being long square built, with teats of good size. The offering consists of two herd bulls, seven aged cows; seventeen cows two to six years old, nine heifers, eight heifer calves, three bull calves. One of the herd bulls is a two year old which is of their own breeding. The other herd bull is also a two year old, named Brookhill Financial Count II, son of Brookhill Financial Count, that was 2d prize bull at the Wisconsin State Fair. He is a show animal himself and would win honors in any ring. His great grandson was Flying Fox, the great $5,000 bull. The train service to Palmyra, Wis., is very good both in arriving and leaving in either direction. Trains from the west arrive at 7:45-8:15-11:55 a. m., 5:30 p. m., trains from the east arrive at 9:15 a. m. 2:20-5:45-8:00 p. m. This permits of getting to the village and viewing the cattle before the sale, and leaving in either direction after the sale closes. Catalogs are now ready. Send for one at once and make your selections. See page 20 for advertisement of C. W. Mack & Son, Palmyra, Wis.

LACHMILLER'S public sale of Chester White sows, which takes place at Webster City, Iowa, January 6th, as will be noted in the advertisement on page 31, is the opening sale of the season of that breed and one which, although the numbers are not great, cannot fail to attract wide attention. This because Mr. Lachmiller has succeeded in producing sows which have to their credit size, well-arched backs, good feet and legs and with proportions that meet with the approval of every well posted Chester White breeder. Four of these animals are tried sows which have gilts in the sale. These older ones were sired by Joe, he a son of Sweepstakes, the Boyer hog that has a reputation as being one of the biggest of the breed. Others carry Goldmine blood. On the dam's side they show infusions of the blood of Leader 2d, Taylor Boy and others of note. The gilts are the get of Wonder 2d 22667, a yearling son of Charmer and grandson of Wonder. This hog tipped the scales at 610 pounds as a yearling and took second prize in class at the Iowa State Fair this fall. He comes from a line of prize winners, his sire having been a blue ribbon winner in 1912, his grandsire in 1911, and a half brother to his sire a sweepstakes hog in 1913. A few of the gilts are by Chief Elmo, a son of Longfellow, and others by White Rock, of Goldmine breeding. These sows will have been bred to Satre's Wonder, a hog of splendid proportions, even build, strong feet and general good character all over. He has wonderful length, an excellent head and a well arched back. His sire was Pathfinder 2d by Pathfinder and his dam, Iowa Queen by Chief's Model. The sale is one with quality enough to interest every breeder and The Homestead hopes that it may have the attention of all who feel the need of addition to their herds. Those who do not find it convenient to attend the sale may send mail or telegraph bids to C. C. Carlin, of The Homestead, who will be in attendance. For catalogs address J. H. Lachmiller, Webster City, Iowa.

DAVENPORT & MACK, Belmond, Ia., are still able to supply their customers with a few good Poland China boars of spring farrow. They are good, thrifty pigs, cholera immune and will be sold at reasonable prices. At the public sale which these gentlemen held on the 16th of December they disposed of thirty-four head at prices ranging from $15 to $60 each. There were too many in the sale for the crowd and the average obtained was not up to the value of the stock sold. Among the buyers were Will Anderson, Alexander, Iowa; G. J. Benz, Thornton, Iowa; B. C. Borcher, Nashua, Iowa; G. J. Bristow, Manley, Iowa; P. C. Barry, Belmond, Iowa; Chas. Campbell, Belmond, Iowa; Frank Evans, Dows, Iowa; J. C. Galbrook, Doherty, Iowa; N. Goranson, Thompson, Iowa; O. B Iverson, Popejoy, Iowa; F. W. Jurgens, Britt, Iowa; Wm. Lewis, Meservey, Iowa; Ed Lightbody, Thornton, Iowa; C. A. Man, Kanawha, Iowa; Frank Pester, Clarion, Iowa; O. J. Pardon, Clarion, Iowa; O. Rolean, Clarion, Iowa; A. D. Severn, Dows, Iowa; E. P. Simpson, Galt, Iowa; G. M. Stowers, Mason City, Iowa; J. A. Sheffield, Clarion; M. Swope, Clarion; Ole Tegland, Clarion; Otto Tegland, Clarion; Frank White, Clarion; John Woden, Clarion; Chas. Gelo, Belmond, Iowa. Col. J. A. Benson conducted the sale.

IN a letter ordering the big advertisement of big-type Poland China sows for sale at private treaty for sale on page 29, G. F. Marshall & Sons write "We have about thirty as good fall and spring yearling sows as can be found.

Dates Claimed for Live Stock Sales

Short-horn Cattle.

Dec. 30, O. E. Wade, Rising City, Neb.
Jan. 8, C. E. & H. R. Gibbs, Klemme, Iowa.
Jan. 6, Louis H. Scheetz, Belle Plaine, Iowa.
Feb. 17, Leahy & Swain, Ewing, Neb.
Feb. 19, Dan Cahill, St. Edward, Neb.
Feb. 26, W. B. Bonnifield, Ottumwa, Iowa.
Feb, 27, J. C. Hardman & Son, Valley, Neb.
Mar. 20, W. R. Wills & Son, Pittsfield, Ill.
Mar. 11, W. A. Wickersham, Melbourne, Iowa.
Mar. 17, G. H. Burge, Mt. Vernon, Ia.
Mar. 18, Wm. Herkelman, Elwood, Ia.
Mar. 18, Gates & Manes, Albion, Neb.
Mar. 19, A. J. Ryden, H. G. Bowers and W. B. Cook, Galesburg, Ill.
Mar. 25, A. C. Shallenberger, Alma, Neb.
Mar. 25-26 Central S.-H. Breeders' Ass'n., Kansas City, Mo., W. A. Forsythe, Mgr., Greenwood, Mo.
April 15, Bellows Bros., Maryville, Mo.
June 9, M. W. Myers, Beaman, Iowa.
June 10, H. H. Powell & Son, Linn Grove, Iowa.

Hereford Cattle.

Jan. 12, E. Williams, Exira, Iowa, (Sale at Atlantic, Iowa.)
Jan. 13, E. M. Elliott, Montezuma, Ia.
Jan. 14, Henry Reimers, Gladbrook, Ia.
Jan. 15, F. O. Peterson, Galva, Iowa.
Jan. 28, Mousel Bros., Cambridge, Neb.
Feb. 18, Geo. J. Anstey, Massena, Ia., sale at South Omaha, Neb.
Feb. 19-20, Nebraska Hereford Breeders. Sale at Grand Island. R. D. Mousel, Cambridge, Neb., Mgr.
Feb. 25, W. T. McCray, Kentland, Ind.
Mar. 5, J. A. Shade, Kingsley, Iowa.
Mar. 6, J. B. Ashby, Audubon, Iowa, sale at South Omaha, Neb.
Mar. 9, B. W. Gregory, Harlan, Ia.
Mar. 10, A. F. Hager, Avoca, Iowa.
Mar. 11, E. W. Crossgrove & Son, Farnam, Neb.
Mar. 11, O. S. Gibbons & Son, Atlantic, Iowa.
Mar. 24, Ben Broughton, Lake View, Iowa.
Apr. 15-16, Combination Sale, South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.

Aberdeen Angus.

Feb. 19, Patrick Leahy, Williamsburg, Iowa.
Feb. 20, Horan Bros., Floris, Iowa. (Sale at Williamsburg, Iowa.)
Mar. 12, Harvey J. Hess, Waterloo, Ia.
Mar. 25, C. J. Martin, Jefferson, Ia.
Mar. 26, C. M. Russell, Carroll, Iowa.
Apr. 1-2, Escher & Son and Escher & Ryan, Botna, Ia. Sale So. Omaha.
Apr. 28, Association Bull Sale, Omaha, Neb.
Apr. 29, Association Bull Sale, Chicago, Ill.
Apr. 30, Association Bull Sale, East St. Louis, Ill.

Holstein-Friesian Cattle.

Jan. 15, F. E. Zimmerman, Metamora, Ill.
Feb. 3-4, Henry C. Glissman, Omaha, Neb., sale held at South Omaha.
April 29-30, T. H. Russell, Geneva, O.

Poland China Swine.

Jan. 20, E. Gritters, Perkins, Iowa.
Jan. 20, R. A. Schug, Coleridge, Neb.
Jan. 21, Mrs. Peter Ellerbroek & Sons, Sheldon, Iowa.
Jan. 23, Thos. F. Miller, York, Neb.
Jan. 23, E. E. Farver, Sibley, Iowa.
Jan. 24, Beal & Jackson, Roca, Neb.
Jan. 29, E.S.Dyas & Sons, Bellevue, Ia.
Jan. 29, A. C. Lanham, Aurelia, Ia.
Feb. 2, Coleman Bros., Ithaca, Neb.
Feb. 3, Theo. Martin, Bellevue, Ia.
Feb. 3, C. A. Rosenfeld, Kelley, Ia.
Feb. 3, C. W. Francisco, Inland, Neb.
Feb. 4, John Jacobson, Gilbert, Ia.
Feb. 4, E. C. Forest, Lyons, Iowa.
Feb. 4, A.Smith & Sons, Superior, Neb.
Feb. 4, W. H. Cooper, Hedrick, Iowa.
Feb. 5, E. W. Kreischer, Mt. Vernon, Iowa.
Feb. 5, G. A. Kissinger, Milford, Neb.
Feb. 5, Jno. B. Lawson, Clarinda, Ia.
Feb. 6, Williams Bros., Villisca, Ia.
Feb. 6, Jno. I. Dripps, Springville, Ia.
Feb. 6, Morris Fowler, Arcadia, Neb.
Feb. 7, J. T. R. Nash & Son, Minden, Neb.
Feb. 11, D.C.Lonergan, Florence, Neb.
Feb. 11, H. L. Faulkner, Jamesport, Mo.
Feb. 13, Maasdam & Wheeler, Fairfield, Iowa.
Feb, 13, W. E. Epley, Diller, Neb.
Feb. 13, J. O. James, Braddyville, Ia.
Feb. 14, W. E. Zimmerman, Neola, Ia.
Feb. 16, C. M. Pederson, Dunlap, Ia.
Feb. 16, F. M. Zenor, Woolstock, Ia.
Feb. 17, James Lawler, Clare, Iowa.
Feb. 17, H. Fesenmeyer, Clarinda, Ia.
Feb. 17, G. J. Bloemendaal, Alton, Ia.
Feb. 18, Pfander & Sons, Clarinda, Ia.
Feb. 19, C. W. Phillips, New Sharon, Iowa.
Feb. 19, L. R. McClarnon, Braddyville, Iowa.
Feb. 20, Frank Rainier, Logan, Iowa.
Feb. 20, A. Kool, Cordova, Iowa.
Feb. 21, O. O. Jones, York, Neb.
Feb. 24, Davenport & Mack, Belmond, Iowa.
Feb. 24, C. H. Porter, Eagle Grove, Ia.
Feb. 24, R.R.Blake, Dallas Center, Ia.
Feb. 25, W. J. Crow, Webb, Iowa.
Feb. 25, J. H. Fitch, Lake City, Iowa.
Feb. 25, R. W. Halford, Manning, Ia.
Feb. 26, W. W. Griffith, Lake City, Ia.
Feb. 26, M. P. Hancher, Rolfe, Iowa.
Feb. 27, Reubel Bros., Marathon, Ia.
Mar. 3, K. F. Dietsch, Orleans, Neb.
Mar. 3, A. W. Stewart, Harlan, Ia.
Mar. 5, Gilbert Johnson, Osceola, Neb.
Mar. 7, J. H. Healy, Manilla, Iowa.
Mar. 9, John S. Barnard, Nelson, Neb.
Mar. 10, Joshua Morgan, Hardy, Neb.

Percheron Horses.

Jan. 14, Glick & Son and J. S. Hegarty, (sale at Stanwood), A. J. Glick, Mgr., Tipton, Iowa.
Jan. 27, Lee Bros., Harveyville, Kan., sale at Manhattan, Kan.
Jan. 27-28-29-30, Breeders' Sale, Bloomington, Ill., C. W. Hurt, Manager, Arrowsmith, Ill.
Feb. 19, Chas. Irvine, Ankeny, Iowa.
Feb. 19, Dan Cahill, St. Edward, Neb.

Percherons, Belgians and Shires.

Mar. 19-20, North & Robinson Co., Grand Island, Neb.

Shire Horses.

Jan. 15, C. C. and R. W. E. Williams, Bushnell, Ill.

Belgian Horses.

Feb. 19, Chas. Irvine, Ankeny, Iowa.

Draft Horses.

Feb. 3, 4 and 5, Breeders' Sale, Streator, Ill.

Jacks and Jennets.

Mar. 9, G. C. Roan, La Plata, Mo.

Duroc Jersey Swine.

Jan. 7, I. J. Wilson, West Branch, Ia.
Jan. 10, U. G. Davidson, Algona, Ia.
Jan. 10, John Hansen, Herman, Neb.
Jan. 12, A. F. Hager, Avoca, Iowa.
Jan. 13, A. J. & L. L. DeYoung, Sheldon, Iowa.
Jan. 13, J. B. Ashby, Audubon, Iowa.
Jan. 14, W. N. Shanks, Worthington, Minn.
Jan. 15, F. E. Zimmerman, Metamora, Ill.
Jan. 15, T. E. Bly, Brewster, Minn.
Jan. 15, Ira H. Dodson & Sons, Aledo, Ill.
Jan. 17, C. R. Steele, Ireton, Iowa.
Jan. 19, D. Nauman & Son, West Liberty, Iowa.
Jan. 20, Waltemeyer Bros., Melbourne, Iowa.
Jan. 21, C. A. Moulton, Morrison, Ill.
Jan. 21, J. C. Droz, Fairfield, Iowa.
Jan. 22, Hanks & Bishop, New London, Iowa.
Jan. 22, S. E. Eakle & Sons, Prophetstown, Ill.
Jan. 23, Kuper Bros., Bellevue, Iowa.
Jan. 23, R. G. McDuff, Monroe, Iowa.
Jan. 24, F. A. Schofield, Columbus, Neb.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 24, Henry Wegter, Sheldon, Ia.
Jan. 26, J. Smith, Everly, Iowa.
Jan. 26, John Thompson, LakeCity, Ia.
Jan. 26, H. S. Fain, Emmetsburg, Ia.
Jan. 27, E. E. Handley, Carroll, Ia.
Jan. 27, F. H. Dickey, Emmetsburg, Iowa.
Jan. 28, Grant Lynn, Spirit Lake, Ia.
Jan. 28, B. F. Danford, Ord, Neb.
Jan. 28, P. W. Weberg, Denison, Ia.
Jan. 29, O. S. Larson, Logan, Iowa.
Jan. 30, W. H. Seddon, Persia, Iowa.
Jan. 30, S. C. Weaver, Lake Park, Ia.
Jan. 31, O. E. Osborn, Weston, Iowa.
Feb. 2, Hugh M. Ficke, Long Grove, Iowa.
Feb. 2, R. J. Harding, Macedonia, Ia.
Feb. 2, E. H. Carpenter, Fontanelle, Neb.
Feb. 3, Economy Stock Farm, Shenandoah, Iowa.
Feb. 4, C. J. Janssen, Meservey, Ia.
Feb. 5, Swan & Ellis, Indianola, Ia.
Feb. 6, W. R. Bennethum, Madrid, Ia.
Feb. 6, H. S. Allen, Russell, Iowa.
Feb. 7, Geo. T. White, Dallas Center, Iowa.
Feb. 7, T. H. & J. D. Isaac, Red Oak, Iowa.
Feb. 7, Wellendorf & Son, Algona, Ia.
Feb. 9, O. E. Green, Genoa, Neb.
Feb. 10, J. C. Danner, Yale, Iowa.
Feb. 10, Merfield & Sons, Greene, Ia.
Feb. 13, Wm. Moderow, Beemer, Neb.
Feb. 14, Herman Toelle, West Point, Neb.
Feb. 16, Briggs Bros., Seward, Neb.
Feb. 17, Geo. Briggs & Sons, Clay Center, Neb.
Feb. 18, A. D. Freed, Kelley, Iowa.
Feb. 18, G. Van Patten & Son, Sutton, Neb.
Feb. 19, Madison Spencer, Audubon, Iowa.
Feb. 19, S. P. Freed, Ames, Iowa.
Feb. 23, E. L. Busch, Syracuse, Neb.
Feb. 24, Hanenkamp & Fowlie, Hickman, Neb.
Feb. 24, Fred Swan, Missouri Valley, Iowa.
Feb. 25, Theo. Foss, Sterling, Neb.
Feb. 27, B. W. Hunt, Denison, Iowa.
Feb. 28, T. J. Link, Winterset, Iowa.

Hampshire Swine.

Jan. 15, F. O. Peterson, Galva, Iowa.
Feb. 4, C. A. Brook, Washington, Ia.
Feb. 17, F. T. Quire & Tice Bros., Sully, Iowa.
Feb. 24, Clayton Messenger, Keswick, Iowa.
Mar. 7, C. P. Paulson, Nora, Neb.
Mar. 12, H. D. De Kalb, De Kalb, Ia. (Sale at Council Bluffs, Iowa.)
Mar. 19, Roy E. Fisher, Winside, Neb.

Chester White Swine.

Jan. 6, J. H. Lachmiller, Webster City, Iowa.
Jan. 28, Alden Anderson, Ellsworth, Ia.
Feb. 10, B. M. Boyer & Sons, Farmington, Iowa.
Feb. 12, J. H. Stewart, Dickens, Ia.
Feb. 25, J. L. Barber, Harlan, Iowa.

Shropshire Sheep.

Jan. 8, Leonard & Son, Corning, Ia.

A. F. HAGER'S SALE

DUROC JERSEY BRED SOWS

AVOCA, IOWA, JANUARY 12, '14

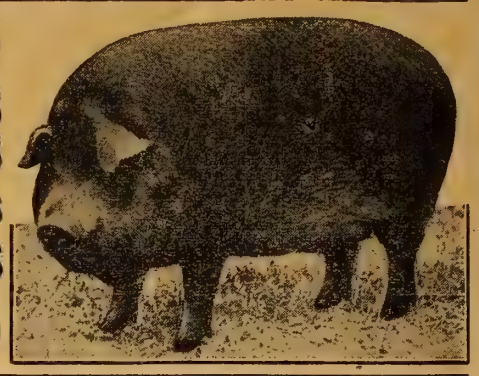
45 HEAD

10 TRIED SOWS AND FALL GILTS

5 SPRING YEARLINGS

30 GOOD GILTS

45 HEAD



I AM selling a great offering of sows in this sale—the best that has ever left my herd. Ten of my best tried sows and a grand lot of spring and fall yearlings and thirty of my choicest spring gilts. I am selling some excellent daughters of my two great boars, **A. F.'s Pilot Wonder** and **Model Gano,** in this sale. The thirty gilts are sired by these two boars and are the best ever. They are bred to **Model Gano,** one of the greatest sons of Col. Gano, **A. F.'s Pilot Wonder** and my great, young Golden Model boar. My sale is one of the first of the year. Come out and help make it a good one. Write for my great catalog and mention The Homestead.

A. F. HAGER, AVOCA, IOWA

COL. N. G. KRASCHEL, AUCTIONEER. M. T. WHITE, FIELD MAN FOR HOMESTEAD.

W. N. SHANKS' GREAT SALE

DUROC JERSEY BROOD SOWS

WORTHINGTON, MINN., JANUARY 14, '14

40 HEAD--20 YEARLING AND TRIED SOWS, 20 GILTS--40

HIGH MODEL FIRST AND CHAMPION AT IOWA AND SOUTH DAKOTA STATE FAIRS, 1912
FIRST IN CLASS AT MINNESOTA STATE AND INTERSTATE FAIRS, 1912
FIRST-PRIZE AGED BOAR AT IOWA AND NEBRASKA STATE FAIRS, 1913

25 BEST SOWS BRED TO MY GREAT BOAR, HIGH MODEL

I AM selling the greatest offering of sows that has ever been listed for sale in the Northwest. Included will be **Crimson Rose Again,** one of the greatest living daughters of the champion boar Crimson Wonder Again, and she is one of the greatest sows living. She is a decided show sow and she is bred to High Model. Two other good Crimson Wonder Again sows go in, both bred to High Model. Also **R. J.'s Medium,** the best daughter of Chief's Protection, sold in the Harding sale last winter. Three decidedly high-class fall sows sired by **Model Chief, Jr.;** others by old **Model Chief.** Two choice gilts by **Missouri Model Top.** Three good gilts by **King The Col.,** and others by **Golden Model 2d** and other noted boars. These are all bred to **High Model, Gano** and **Top Notcher Chief.** It is the greatest offering of sows you have ever seen listed for one sale. Cols. Duncan and Kraschel, auctioneers. M. T. White will represent The Homestead at the sale. Write for my catalog and kindly mention The Homestead. Address

W. N. SHANKS, WORTHINGTON, MINN.

Great big, stretchy, growthy, heavy boned sows, all best of backs, coats a color, nearly all sired by the great Giant King and bred to one of the best breeding boars living, Jumbo. He is in the 1,000-pound class. His get were sold early at good prices and we could have sold fifty more early boars from him had we had them. He breeds more length and bone than any boar we know of and the man who buys a sow bred to him will have pigs just a little bigger than the other fellow. These sows are all safe in pig and ready to ship. We have four out of a litter sister to Giant King and bred to Jumbo, long and big; four out of a Chief Price Again sow and bred to Jumbo, an extra good one out of the dam of Giant King and bred to Jumbo and 15 fall yearlings sired by Giant King and bred to Jumbo. Talk about your queens of the breed. Come and see the real thing in these big-type sows with their immense size, great length and heavy bone. All are good in head. No big cabbage leaf ears. All have best of feet. If you want something extra good, get after one or more of these sows. Every man who got a sow at our last winter's sale and saved the pigs say they had the best big-type pigs they ever saw and farmers picked them up at $50.00 each. We sold Jumbo boars at an average of $50.00 and we sold a lot of them, sending them to nearly every state where hogs are raised and if you want to get in the game and have the best big ones, then get a sow sired by Giant King and bred to Jumbo. Then you will have something to talk about and show to your neighbors. These sows are all immune. Have never had any sickness in our herd, but to be safe we had them all immuned two months ago." For additional particulars write or telephone to G. F. Marshall & Sons, Monroe, Iowa.

HAGER'S Duroc Jersey sow sale.—One of the very first of the Duroc Jersey brood sow sales that will be held in January will be that of A. F. Hager, at Avoca, Iowa, on the twelfth and he is selling a splendid lot in this sale. He is offering forty-five head, made up of fifteen tried sows, spring and fall yearlings and thirty spring gilts. The boars that Mr. Hager is using in his herd are A. F.'s Pilot Wonder, that is regarded as one of the best breeding boars in western Iowa; Model Gano, one of the best sons of old Col. Gano; and he is using a son of Golden Model 2d, and these sows that he will catalog for this sale will be bred to these boars. The Hager offering is a good one from one end to the other and is possibly the very best lot of sows he has ever listed for a sale since he has been engaged in the business. He is selling three yearling daughters of A. F.'s Pilot Wonder that are among the very best he will offer. These are all bred to Model Gano and they will look good in any herd. Nearly all of the older sows will be daughters of A. F.'s Pilot Wonder and there are some splendid sows among these. Then he is selling three very choice fall sows sired by A. F.'s Pilot Wonder and bred to Model Gano and these will look good to the breeders who attend this sale. Then there are three extra choice spring gilts by the same boar and they are out of a Proud Col sow and these are also bred to Model Gano. The thirty spring gilts that he is selling are sired by Model Gano, A. F.'s Pilot Wonder and a son of Osborn's Prince of Cols. The offering is very stretchy, full of quality and in many ways it will be one of the very choice offerings of the year. Write Mr. Hagar for a copy of his catalog and kindly mention The Homestead. M. T. White will represent this paper at the sale and will care for any bids sent in his care. See this page.

GEORGE EGGERT, Newton, Iowa, a well-known importer and breeder of Percherons, Belgians and Shires arrived home from Europe December 18th with his new importation of excellent specimens of the three breeds mentioned above. A Homestead representative has inspected the horses brought over and we can frankly state that they are the heaviest boned, biggest and best lot of stallions Mr. Eggert has ever had on his Oaklawn Farm. The prospective purchaser can find what he wants here if he wants the good ones. Mr. Eggert desires to wish his patrons a prosperous New Year and invites them as well as onyone else interested in good horses to visit his farm and look over his horses. See page 33 and when writing kindly mention The Homestead.

CHATHAM grain graders and cleaners make it possible for farmers to realize the top prices on their grains. This machine has been in use so many years that it would seem that every farmer would recognize its merits. It is built on correct principles, of best materials and is easily operated. The manufacturers have printed a copyrighted book entitled "The Chatham System of breeding Big Crops." This book is really of great educational importance. It may be obtained free together with description and prices of the grader by sending a request to the Manson Campbell Co., Dept. 50 Minneapolis Minn. See advertisement on page 8.

I. J. WILSON, West Branch, Iowa, will hold a Duroc Jersey bred sow sale at his farm adjoining town on January 7th. At that time he will sell fifty head consisting of two yearling sows by Col.'s Chief, a two year old by Crimson Wonder Chief, a three year old by Tip Top Wonder, six great yearling sows by Wilson's Defender, a litter mate to the great Disturber. These sows are a large, smooth, type and look like brood sows. There will be two good gilts by Golden Model II., out of a Chief Select dam. The balance of the gilts are sired by Wilson's Defender, Wilson's Crimson Wonder, and others. The sows and gilts will be bred to Wilson's Defender, Chief Gano, a son of the noted sire, Col. Gano, and out of an Ohio Chief bred sow, and Select Model, a son of Golden Model II. and out of a Chief Select sow. This is a high-class offering and as the sale is so early in the season they will sell cheaper than in the later sales. It will be a good place to get a well-bred sow, bred to a good boar at a reasonable price. The best of all every sow in the sale has been given the double treatment and, therefore, buyers need not fear of these sows taking the cholera. Write Mr. Wilson for a catalog mentioning The Homestead. Arrange to attend the sale, but if it is impossible for you to do so send a bid to Carlos C. Palmer, Homestead representative in care of Mr. Wilson and it will be properly handled to your interest. See page 36.

MESSENGER BOY 6179, is a Hampshire boar with a show record with which every man owning a Hampshire hog is acquainted. With the phenomenal show record of winning every grand championship at every state fair shown in 1912 and 1913, Messenger Boy is considered by a large number of the best breeders as the greatest Hampshire boar living. On February 24th the owner of Messenger Boy, Clayton Messenger, Keswick, Iowa, will sell 100 bred sows at auction. Fifty of these sows will be sired by Messenger Boy and bred to a grand champion boar, while the other fifty will be bred to this great sire. This sale will afford the Hampshire breeder a great opportunity to get a sow sired by or bred to the undefeated grand champion, Messenger Boy. Don't forget the date and watch for particulars in The Homestead. See page 31.

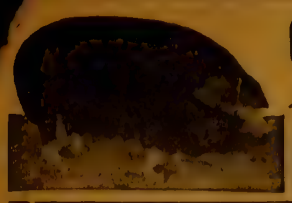
ONE of the grandest offerings of Duroc Jersey brood sows that the circuit will bring out will be that of Wellendorf & Son, Algona, Iowa, which takes place February 7th. A representative of The Homestead, who visited the herd last week, met with a surprise, as will those who attend the sale. It is a wonderfully uniform lot of sows with breed character and the most popular blood lines. Later announcements will appear in this paper.

SCHEETZ Short-horn sale.—One of the first Short-horn sales of the year is that of Louis H. Scheetz, Belle Plaine, Iowa, on January 6th. On that date he will sell fifty-five head consisting of twelve bulls and the balance cows and heifers. There will be about fifteen cows with calves at foot. Improver 2d 342773, the four-year-old red herd bull bred by the Thompsons, of Iowa City, is included in the sale. He is sired by the great breeding bull, Challenge Mysie and of the Marr Princess Royal family. This bull has sired a lot of good calves for Mr. Scheetz and he will do someone a lot of good. The calves by Improver 2d will show for themselves sale day. His grandam is by Victor Mysie 2d. Pride of Baron is a roan February bull calf in the sale by Baron's Pride and of the Scotch Isabella family. The balance of the bulls are of the useful sort and farmers will find bulls in this sale that will sire the right sort of steers. Mr. Scheetz is selling these cattle because he has a larger herd than he can handle and he is offering some of his best cattle. Next week we will give particulars regarding the female end of the offering. Seventeen draft horses will be sold including five mares safe in foal and an extra good two-year-old grade stallion weighing 1,700 pounds. Write Mr. Scheetz for a catalog mentioning The Homestead. His advertisement appears on page 34.

AN EXTRA good Percheron stallion and an outstanding Belgian horse have just been sold to Harry E. Hopper, Indianola, Iowa, by J. R. Justice, the importer at Galesburg, Ill. This makes fifteen head of imported Percheron and Belgian stallions and mares that Mr. Justice has sold to Mr. Hopper, who maintains a farm of about 1,800 acres adjoining Indianola, and it is safe to say there are very few farms where so good a selection of breeding horses can be found as are on this farm. Mr. Hopper is a broad gauged man who does things in a big way, and is buying the very best horses to be found, more with a view of helping the horse industry of his section than with any idea of pecuniary benefit to himself.

POLAND China bred gilts for sale.—Twenty-two head of good, large-type Poland China gilts are advertised for sale by W. T. Dubois, Greenville, Iowa, on page 37. Some of these are sired by his splendid boar, Colosso 2d, and are bred to D.'s Wonder a son of Ellerbroek's A Wonder and he in turn is out of a dam by Fesenmeyer's A Wonder. These gilts are all right and are bred for March and April litter. He will not make a public sale and, therefore, is offering these gilts privately. Write him for prices at once and mention The Homestead.

GIBBS' Short-horn sale.—One of the first sales of Short-horns to be made during the fore part of the year will be that of C. E. & H. R. Gibbs, which will be held at Klemme, Iowa, on January 6th. In writing us about this sale offering, Mr. C. E. Gibbs says: "Owing to the weather we were not



G. F. Marshall & Son's BIG-TYPE POLAND CHINAS

ALL IMMUNED. All fall and spring yearling sows. Most of them sired by the 1,200-pound Giant King and bred to the great 1,000-pound breeding boar, Jumbo (he by Big Jumbo). These sows are all of good colors, good length, heavy boned and as big as they grow. They are the best we ever had. They are bred for March and April litters. Also fall pigs by these noted big boars, weighing now from 75 to 100 pounds each. Write or 'phone your wants or better yet, come and see this good stuff. Mention The Homestead. Address

G. F. MARSHALL & SON, MONROE, JASPER COUNTY, IOWA.

able to sell as many cattle as we wished in our November 19th sale, so we are calling a sale for January 6th, at which time we will offer a class of cattle that both the breeders and the farmers can use. We have put on the market all known irregular breeders, so anybody buying cattle of us will be sure of getting breeding cattle of unquestioned merit. Among the many good cows we are selling is Victoria Lancaster, a beautiful roan heifer twelve months old, also Jean Britt, a splendid large red heifer, and a number of others of the same class. Another good cow is Kitty Marr 4th, a young red cow that we expected to put in the show ring next year. The man that is looking for milking Short-horns will find Venus, a large red cow, and Clara's Mysie, a splendid roan, both good propositions. They are both gentle and easy milkers, and their calves are above the average. Every female in our sale that is old enough to breed will be in calf to Red Duke 367977, a son of Sidelight. This bull is twenty-six months old and weighs 1,800 pounds and is not overfat. We expect to make him weigh 2,500 at four years old. Those who attend our sale will make no mistake in buying cows bred to him. We guarantee all stock to be breeders and as represented at ring side. Our sale offering affords breeders and farmers an opportunity to buy good and well-bred Short-horns at their own prices. We are not putting any frills on this sale, as we are going to let the buyers be the judges. It will, therefore, be bargain day for those who attend our sale. A number of good bulls will be offered. A number of good bulls will herds and this is all the more reason why you should attend this sale." Write Mr. Gibbs for catalog and be sure to go to the sale. See advertisement on this page.

EXTENSIVE experiments have proven very conclusively that to increase the yields of crops, that no one factor outside of the weather has as great effect as good seed. Those that take the time and go to the expense of properly preparing their lands certainly should not overlook the essential part of using only good seed to insure a good crop. Henry Campbell, Seward, Neb., has been in the pure-bred seed business for many years, and has himself perfected and improved many strains of good seeds. A little later in the season he will start an advertisement in The Homestead and we wish to ask Homestead readers that they give him some trial orders at least. Special effort has been put forth to get a good line of alfalfa, timothy, sweet clover alsyke and red clover, millet, cane, speltz, seed corn and in fact about everything in the line of seeds will be offered. Some attractive propositions in the way of alfalfa seed and sweet clover seed is now being offered. One can save money by ordering now. Address Henry Campbell, 100 Fifth St., Seward, Neb.

WALTER JOHNSON, Dorchester, Neb., breeds Polled Durham cattle, and he has also had a herd of Short-horns. Right now he has a Short-horn bull, a thrifty fellow, and a Short-horn cow and calf at foot that he will sell and he prices them worth the money. They will close out the Short-horn part of the herd, hence he will name a very attractive price on them. He also has a three-year-old Polled Durham bull that he will sell worth the money. He is a strong vigorous fellow and has been a sure breeder, and has not been used hard. Interested parties will do well to address Mr. Johnson without delay. Kindly mention The Homestead when you write.

THE mildness of the weather so far this fall has led many people to neglect to provide the necessary clothing for winter protection. There always has been, at some time or other, in every winter a demand for a good fur coat and there will be this winter. Farmers who have horsehides or cowhides may have them tanned and made into coats or robes at a slight cost and thus obtain winter protection that is as good as can be secured. In an advertisement on page 21 premiums of caps, gloves, or mittens are offered to patrons of the Mickle Fur Coat & Robe Co., of Mason City, Iowa. Write for particulars of this excellent offer.

HAVING sold all his Poland China boars, E. J. Augspurger changes his advertisement on page 31 so as to announce a sale of bred gilts. He thinks he has something extra good to offer. They are bred to Jumbo's Big Prospect, Equal Wonder (a grandson of A. Wonder) and Wayside Wonder. The latter is also by A. Wonder and out of a Big Joe dam. Mr. Augspurger also has for sale a good Polled Durham bull and an April yearling Short-horn bull. Address inquiries to E. J. Augspurger, Pulaski, Iowa.

MARMION'S Poland China advertisement on page 37 is an attractive one because it offers good big-type Poland China gilts for sale and guarantees them to satisfy the buyer. In a recent letter Mr. Marmion says: "I want to thank The Homestead for the good trade I have enjoyed on my big-type Poland Chinas. Not a man who came to inspect my herd left without buying. Seventy-five per cent of the animals sold went to buyers within a radius of fifty miles from my farm. I am now offering for sale litter sisters to the boars sold and they are equally as good. These are bred to my young herd boar, Wonder Jumbo, a fourteen months old hog that has a ten-inch bone and weighs 540 pounds. Among these gilts are some extra good ones by Cox's Wonder. Their progeny will represent the strains of blood carried by Rood's Giant, Long King, A Wonder and Jumbo Junior. I have also some fall pigs for sale." For complete descriptions and special prices write to B. F. Marmion, R. F. D. 2, Farmington, Iowa.

IN OUR Date Claim columns this week will be found the announcement of E. Williams, Exira, Iowa, claiming January 12th on which to hold a public sale of Hereford cattle. The sale is to take place at Atlantic, Iowa. Mr. Williams on the above date will sell forty-two head of good Hereford cattle, consisting of thirty cows, twelve with calves at foot, and twelve good bulls. See advertisement on page 30.

COWNIE takes all the chances on hides that may be shipped to the Cownie Tanning Co. for tanning or to be manufactured into coats or robes. He makes the statement that he can save 50 per cent to his patrons. He proves it all in a large illustrated catalog which is sent free to any reader of this paper who writes to Cownie Tanning Co., 508 Market St., Des Moines, Iowa. See page 21.

WRITING with reference to his Poland China herd, C. H. Porter, Eagle Grove, Iowa, says: "My hogs are outgrowing anything, taken as a whole, that I have ever raised. They have big bone, good feet, color and size. If nothing happens I will put through the sale ring February 24th a lot of gilts less than a year old that will weigh 400 pounds or better and are not fat." See advertisement on page 37.

IMMUNED Chester White gilts are advertised by W. H. Dunbar, Jefferson, Iowa, on page 31. Mr. Dunbar's record as a breeder and in the show ring entitles him to the consideration of those who are in search of stock. Everything he offers has been given the double treatment and may be considered immune from disease.

DUROC Jersey fall sows, bred to Big Wonder, the grand champion Iowa State Fair boar, are advertised for sale by the Economy Stock Farm, Shenandoah, Iowa, on page 36. Now is the time to buy one of these sows and they will make you money another year. Mention The Homestead when writing them.

THE Butler welded tank heater illustrated in the advertisement on page 9 is an appliance that will pay for itself every winter on any farm where live stock are kept. For prices and circular address Butler Manufacturing Co., 1244 W. 10th St., Kansas City, Mo.

RIGHT prices will be made on yearling and two-year-old registered Shropshires by S. Bennington's Sons, Elkader, Iowa, as per advertisement appearing on page 23 of this issue. These ewes are sired by imported and have been bred to imported rams.

ALL THE various articles required to make the use of a silo economical are advertised on page 20 and fully described in a catalog, for which write to Columbian Steel Tank Co., 1602 W. 12th St., Kansas City, Mo.

GROWERS of sweet clover assert that it is the biggest money-maker known. For facts concerning secure circular and free samples from the A. A. Berry Seed Co., Box 203, Clarinda, Ia.

CLOSING out Poland China boars.—Those of our readers who have not as yet bought their boars should write at once to W. H. Barr & Son, Villisca, Iowa, as they are closing out their entire crop at the most liberal prices. They write us they have eleven head of heavy boned spring boars and two fall boars and the two-year-old boar, B.'s Mastodon. They have so much of this boar's get in their herd they cannot use him to advantage any longer so have decided to sell him. He has been one of the best breeding boars they have ever owned and he is a great bargain to the man that can use him. Understand they are making special prices on all of these boars in order to move them. So get busy and order from them right away and you will get a real bargain in both boars and the prices asked. Mention The Homestead when writing Mr. Barr.

KITSELMAN fence, the kind that has been selling direct from factory for so many years and at factory prices is advertised on page 9. The price quoted is very small. The Kitselman is adapted to all purposes. Write for free catalog. Address Box 290, Muncie, Ind.

HANSEN'S Duroc bred sow sale.—One of the first sow sales of the winter season will be that of John Hansen, Herman, Neb., on January 10th. He will sell four tried sows, eight fall yearlings and the remainder will be spring gilts. Included in his offering will be a number of daughters of Sun Beam Girl, his noted grand champion sow at the Nebraska State Fair, 1912. John has a good line up for this sale and you will be interested in seeing his catalog. Write for it at once and mention The Homestead.

FIFTEEN Duroc Jersey boars of spring farrow are offered for sale by A. J. De Young, Sheldon, Iowa, whose advertisement will be found on page 31. He describes them as being extra good, but that owing to the need of room in preparing for his January 1913 sale, he will close them out at extremely low prices.

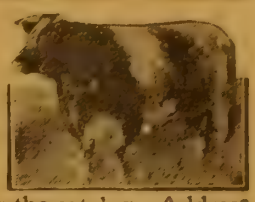
FARMERS or breeders who are in search of Short-horn bulls are referred to the advertisement of H. F. Hoffman, Birmingham, Iowa, which will be found on page 31. Mr. Hoffman advises us that these are good animals with the prospect of making great size and that he will sell them at reasonable prices.

MARLIN repeating rifles have been standards of perfection for a great many years. The new Model 27 repeating rifle is illustrated in an advertisement on page 24. While this is strictly

WADE'S GREAT REDUCTION SALE OF SHORT-HORNS

WILL BE HELD IN SALE PAVILION IN

COLUMBUS, NEBRASKA, TUESDAY, DECEMBER 30, 1913



THE sale offering will consist of practically the entire herd of choice Short-horns. They have been bred from the best of foundation material and represent the highest type of real UTILITY SHORT-HORNS. Some of these cattle are pure Scotch, others of the choice American families. Not a one listed but that is of known value or of rare promise. Herd-heading bulls and a select lot of producing cows and choice heifers make up the offering. There will be about thirty head. Good hotels and train service at Columbus. You will be made comfortable. Spend the day with us. Col. Z. S. Branson, auct. Mention The Homestead and apply for the catalog. Address

O. E. WADE - - - RISING CITY, NEBRASKA.

C. E. & H. R. GIBBS' SALE

SHORT-HORN CATTLE

Scotch and Scotch-topped and Some Splendid Milking Short-horns . . .

Klemme, Iowa, January 6, 1914

AS I WILL be away the greater part of the year, we are closing out the greater part of our herd, which consists of some good Scotch cows and choice heifers, twelve to sixteen months old. About half of this offering are roan, and any young breeder wishing to start a roan herd will find a good opportunity here at the right price. There will be several good bulls in the sale, two of which will be suitable to head pure-bred herds. If you want good Short-horns at your own prices come to my sale. Col. Thos. Egan, auctioneer. Address

C. E. & H. R. Gibbs, Klemme, Ia.

A CRIMSON WONDER AUCTION

ANNUAL DUROC JERSEY SOW SALE

ALGONA, IA., SATURDAY, JAN. 10

I AM putting into this sale a lot of sows that carry a stronger infusion of the blood of that great old fountain head of champions, Crimson Wonder I Am, than ever has or ever will go into a sale ring. Five of his daughters, 14 yearling granddaughters and a bunch of spring gilts. All are bred to Golden Model Jr. or Crimson Wonder Am I. They are cholera immune. They are only in thrifty breeding form. Breeders who appreciate quality in its everyday clothes will like this bunch. Farmers will recognize them as moneymakers. N. G. Kraschel, auctioneer. C. C. Carlin field man for Homestead. Catalogs ready. Address

U. G. DAVIDSON, ALGONA, IOWA

a high-class gun it is one which is sold at a remarkably low price. A catalog of 128 pages describes it in full and quotes the special prices available to the reader of this paper. Write for it to the Marlin Fire Arms Co., 135 Willow St., New Haven, Conn.

WILLIAMS' Hereford sale.—If you want to see a good offering of Hereford cattle make it a point to attend the sale of E. Williams, Exira, Iowa, the same to be held at the Swab Feed Barn, Atlantic, Iowa, on January 12th. Mr. Williams concluded to make this sale at Atlantic because of the railroad connections and this point is easily accessible to everybody and from everywhere. He is selling thirty good cows in this sale, twelve of which have big lusty calves at foot, and twelve head of bulls He is selling a wonderfully good lot of cows in this sale and more 1,600 and 1,800-pound cows than have been seen in one sale in many a day. Every cow in the sale will either have calf at foot or will be bred and safe in calf. These cows were originally purchased from the best and most noted herds in this country, and Mr. Williams always selected the good ones. For instance he is selling a couple daughters of Bright Duke and Gold Bug, two of the most noted bulls that were used at the head of the Minier herd a number of years ago. Then he has cows from the Ben Broughton and Gudgell & Simpson herds, always the tops of their offerings, as well as many other good ones from other noted herds. Among the good individuals will be Glendora, a six-year-old cow, a wonderfully thick cow, with a nice head and horn, and a cow that would be a credit to any herd in the land. Lady Bug and Sparkle are both excellent cows, large and breedy and both of these are daughters of Minier's old Gold Bug. These cows were the very best that the Minier Bros., sold in their last sales. One of the good daughters of Bright Duke is named Carl, and she has been one of the greatest breeding cows he ever owned. She is a large, droop-horned cow and a splendid individual, and sells with a nice heifer calf at foot. Bellflower is the other daughter of Bright Duke, and she is also a good cow. Bessie Lee is another great cow, has been a prize winner in times past and she sells with a pair of twin bull calves at foot by Dudley B Lady Superior is a Will Wheeler Beau Donald bred cow, and she is quit choice, as is also Lady Dunlap, a Gudgell & Simpson bred cow. Another very choice cow we would have you notice on sale day is Catherine, a Beau Donald Hesiod bred cow, and she is well along in calf to Dudley B. Few better money-making propositions will be offered during the year. Rose Melter is a 1,800-pound cow and a good one. She has been a show cow and is one of the best in the herd Beatrice 2d, was the top of the Ben Broughton sale and she is an outstanding good one. Beau Maid is another 1,800-pound cow that has been a show cow and you will very seldom see in one sale three as good cows as these last named. In the bull offering will be the splendid herd bull, Dudley B., a son of the champion bull, Dudley. He is a five-year-old bull, a good individual and an excellent breeder. He has a droop horn, just like his famous sire. is a mellow fleshed bull and an easy keeper, and he is a remarkably good breeding bull. Mr. Williams has so many of his heifers now in the herd he has decided to sell him in the sale. Another good five-year-old bull is Corrector Britton, a son of Anxiety Britton and he is a large, big-boned bull, and one that will do excellent service. Refiner is a splendid yearling bull that is a son of Beau Perfection, together with a nice string of young bulls. If you want Herefords it will pay you to attend this sale. Write E. Williams, Exira, Iowa, for catalog and kindly mention The Homestead. Remember the sale will be held at Atlantic, Iowa, right in town. See advertisement on page 30.

BERKSHIRE boars of April and May farrow, weighing from 135 to 225 pounds, are offered at prices ranging from $20 to $35 by M. A. O'Brien, whose advertisement appears on page 38. These hogs are registered. Fifty sows are also offered for sale. Address inquiries to M. A. O'Brien, R. 2, Reedsville, Wis.

EVERYONE usually wishes to do business with those that are making a success at the particular line in which they are engaged. Those seeking a good stallion will buy from those that are able to do a good business, for if they do a good business they must have good stock and offer them at prices in keeping with their real value. Few men have done as well in the draft horse business as have Wolf Bros., Albion, Neb. These gentlemen have imported some of the really choice horses that have come to Nebraska in recent years, and their stock have been persistent winners, not only in their hands, but in the hands of others as well. These gentlemen now assert that they will save Homestead readers a big of money on a high-class stallion or a span of mares if purchased within a short time. They have a big lot of good stock, and they wish to close them out as rapidly as possible. It will pay those that are interested to get in touch with them immediately, for their offering is a good one. Kindly write them and when doing so, mention The Homestead.

POLLED Durham bull for sale.—In a recent letter from W. H. Barr, Villisca, Iowa, he says he still has his splendid herd bull, Crowder, that he is offering for sale. He is a three year old and weighs 1,800 pounds in pasture, is very gentle and easy to handle and a splendid breeding bull. He wants to sell him and is making the price where he should not last long. Write Mr. Barr at once regarding this bull and kindly mention The Homestead.

EMERSON CRABS, Aledo, Ill., is a breeder of Duroc Jerseys who has had excellent sales this year, having sold his entire crop of boars numbering sixty-seven head and all of his gilts. He has nothing to sell at present in the Duroc line, but in the poultry department of this paper he is offering Rose Comb Rhode Island Red and White Wyandotte cockerels and pullets of the best of strains. Write him for prices, mentioning The Homestead.

SCOTCH COLLIE pups, eight weeks old can be purchased of J. E. Smith, proprietor of White View Kennels, Victor, Iowa, as per his announcement on page 15. He has a fine litter of sable and white male and female pups that are farm raised and natural heelers. The males are priced at $10 each and the females at $5. Write Mr. Smith kindly mentioning The Homestead.

JOHN G. HURLEY, Welton, Clinton Co., Iowa, announces on page 31 that he wishes to sell four good Polled Durham cows with October calves at foot and four two-year-old heifers. All have been bred Red Marshall; a bull that was a first-prize winner at the International in 1911 and also at the Kentucky State Fair the same year.

FRANK KEAN, Mt. Pleasant, Iowa, in furnishing copy for his new advertisement on page 31 writes as follows: in regard to his Duroc Jerseys: "I am sold out of males. I am breeding a choice lot of gilts and aged sows for last of March and April farrow that will be sold worth the money."

THE free catalog of the Ironclad incubator advertised on page 14 is sold at a remarkably low price together with a brooder of the same size. Freight charges are prepaid east of the Rockies. A catalog tells all about it. Get one by writing to Ironclad Incubator Co., Department 111, Racine, Wis.

READERS of The Homestead wishing to purchase choice Poland China boars, sired by Western Hadley 189195, he by Big Hadley 167563, will be interested in the advertisement of E. R. McAllister, Emmetsburg, Iowa, appearing on page 31 of this issue.

FARM fence suitable for hog fence, poultry, ordinary stock-turning purposes is advertised on page 9 and at remarkably low prices. For special information and free catalog address Coiled Spring Fence Co., Winchester, Ind.

HEREFORD cattle, both bulls and females are offered by Warren Landers, Savannah, Mo. The very best bulls are represented in the pedigrees of Mr. Landers' cattle. Note page 35 for his advertisement.

POLAND China bred sows at the low price of $25 each should interest farmer readers of The Homestead, and we are quite sure they will. Herman Schmale, DeWitt, Neb., is offering some at that price. He is also offering some boars at $22.50 each and they are really bargains at the price. They are mostly sired by Wonder Price by A Wonder and a few are by Pawnee Tall by Pawnee Chief. This line of breeding is good and it is big stuff. Mr. Schmale is a good man to do business with, and we believe he treats the buyers better than himself, for this stock he is offering should sell for more money. Order without delay, as they will certainly not last long at the prices offered.

HIGH MODEL—CHAMPION DUROC JERSEY
Owned by W. N. Shanks, Worthington, Minn. See field note on page 26.

ENTERPRISE sausage stuffers and lard presses are advertised on page 17. No one wants to be told what these machines are because they are right and always have been right. They are made in various sizes and sold at the prices quoted in the advertisement. Catalogs of these and other machines made by the same company may be obtained by writing to The Enterprise Mfg. Co., Dept. 83, Philadelphia, Po.

JERSEY bulls carrying strong infusions of St. Lambert blood are offered at particularly attractive prices by M. A. O'Brien, R. 2, Reedsville, Wis. See advertisement on page 20.

IMMUNE Poland China boars are being closed out by A. W. Stewart, Harlan, Iowa, at $20 and $30. Read his advertised on page 37.

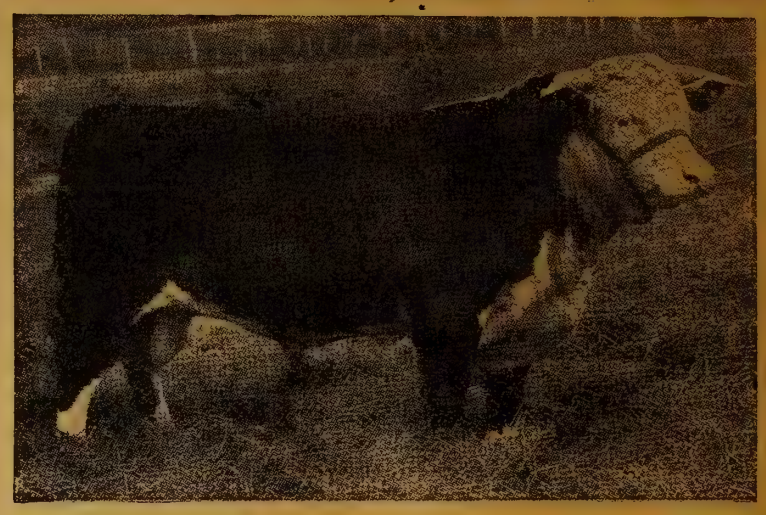
POLLED Durham and Short-horn bulls are advertised by D. S. Brown, Geneseo, Ill., on page 34.

E. WILLIAMS' SALE

HEREFORD CATTLE

ATLANTIC, IOWA, JAN, 12, 1914

42 HEAD— 30 FEMALES, 12 BULLS —42 HEAD



I AM selling the greatest lot of females that has been offered in a public sale here in the West in many a day. You will find more 1,600 and 1,800-pound cows in my sale than you have seen offered in the past decade. Twelve cows will have big, lusty calves at foot and are bred again, and every cow in my sale will either have calf at foot or will be in calf. The cows will mostly all be bred to my splendid herd bull, Dudley B., and the calves at foot of dams are nearly all sired by him. Among the good cows offered will be daughters of the well-known bulls, Bright Duke, Gold Bug, Anxiety Britton, Beau Perfection and other noted sires. These cows were originally selected from the most noted herds in this country and were invariably the tops of those herds. I am selling twelve bulls, including my great herd bull, Dudley B., a five-year-old son of the champion bull, Dudley, and he is a splendid individual and a grand good breeding bull. Corrector Britton, another good herd bull, will be offered, and Refiner, a splendid yearling bull, together with a nice string of young bulls. Write for my catalog at once and mention The Homestead. Address

COL. FRED REPPERT, Auctioneer.

E. WILLIAMS, Exira, Ia.

ZENOR BIG POLAND CHINA SALE

THE EVENT OF THE BIG-TYPE EVENTS

WOOLSTOCK, ICWA, MONDAY, FEB. 16

FIFTY big-type sows, hig with quality, and no discount on the blood lines. Direct from the Crow, Ellerbroek and Lentz herds, and others of note. Tried brood sows that have daughters in the sale, fall yearlings, spring yearlings and spring gilts. They carry the best backs, and have the best feet and legs you ever saw in any big-type sale ring. They are the kind you have been looking for. They are bred to Wonder's King 67705 (by Fesenmeyer's A Wonder and out of Mammoth Giantess' Equal, by Long King's Equal). He is a litter brother to Pfander's King of Wonders. He is 36 inches high, and has a 10½ inch bone. Hig pigs are of the good, broad headed sort. Sows are bred to Longfellow 4th. Everything immune by double process I want you to come and see these sows. J. A. Benson, auctioneer. Send mail or wire bids to C. C. Carlin, in my care. See catalog for magnificent breeding. Address

F. M. ZENOR, WOOLSTOCK, IOWA

NEWS OF THE SALE RING

The Joy Poland China Sale.

A good average crowd attended the sale of Andy Joy at Herman, Neb., on December 19th, and he made an average of $42 on everything. It was a good offering, his gilts being especially good. No high prices were paid, but it was an even range, and everybody got good values. Col. E. Z. Russell cried the sale and did good work. Below we report those selling for $25 and above:

1.	James Broderson, Herman, Neb.	$47.50
2.	J. C. Ackerman, Herman, Neb.	52.50
3.	Rufus West, Herman, Neb.	40.00
4.	Tom Barry, Blair, Neb.	49.00
5.	Ike Wilbaum, Herman, Neb.	45.00
6.	Chas. Rogers, Herman, Neb.	52.00
7.	H. O. Williamson, Herman, Neb.	62.00
8.	Clarence Thuirer, Fostoria, Ia.	47.00
9.	Rob Anderson, Blair, Neb.	39.00
10.	Joseph Lyons, Herman, Neb.	45.00
11.	R. A. Schug, Coleridge, Neb.	50.00
12.	R. A. Anderson, Blair, Neb.	40.00
13.	Wm. Hugelman, Wakefield, Neb.	35.00
14.	Frank Rainier, Logan, Iowa.	32.00
15.	James Broderson	40.00
16.	Frank Rainier	40.00
17.	Clarence Thuirer	39.00
18.	Frank Poeschel, West Point, Neb.	39.00
19.	E. A. Tucker, Pender, Neb.	35.00

20.	R. A. Schug	45.00
21.	Peter Miller, Herman, Neb.	39.00
22.	Joseph Lyons	45.00
23.	Joseph Lyons	45.00
24.	Jas. Broderson	27.00
25.	E. A. Tucker	41.00
26.	Frank Rainier	37.00
27.	Frank Poeschel	46.00
28.	G. O. Youell, Herman, Neb.	29.00
29.	Jas. Broderson	35.00
30.	C. F. Wilde, West Point, Neb.	48.00
31.	Frank Davis, Holbrook, Neb.	32.00

The Clio Short-horn Sale.

The conditions seemed all against the Breeders' Short-horn Sale at Clio, Iowa, on December 18th, and the outcome was not what it otherwise might have been. Late trains arriving after four o'clock in the afternoon did not help things, and as Colonel Graham was coming on this train, it devolved upon the Colonel Fennell, and home auctioneers to open the sale. These boys did good work until the arrival of Colonel Graham, who then took charge of the sale. The average was $75 on everything, but it was not by any means commensurate with the offering. As we have heretofore said breeders could buy cattle cheaper in this section of the state than anywhere else, and those who did not attend were the losers thereby as there were some great bargains offered. The top of the sale was the splendid Scotch cow, Lady Athene, and she was purchased by M. H. Wetson, Seymour, Iowa, at $172. The old bull, Avalanche 2d, went to Riley Ritchie, Allerton, Ia., at $142.50 and he was a good bargain at that figure. W. Preston Donald was one of the strongest buyers and he secured some of the best cattle as did also S. R. Walloel, Ainsworth, Iowa, and Luck Bros., Arthur Finney, Cainesville, Mo., also got some of the good ones. Those who did attend certainly got some splendid bargains.

THE LIVE STOCK MARKET

Union Stock Yards, Chicago, December 20th.—Despite the presence of 34,500 cattle on the local market Monday the highest prices of the year were paid for prime yearlings, "babies' realizing $10@10.25 per cwt., but this afforded no criterion of general conditions in the market which was deluged with half-fat stuff, discarded by feeders with the avowed intention of saving corn. Liquidation was stamped all over the run, the country having lost confidence in the future of the cattle market. Thousands of short-fed cattle arrived, and if the feed bill was less onerous, or the market prospects brighter 70 per cent of them would have been fed another sixty to ninety days.

By common consent the beef steer market is called 25@40c lower than last week on everything except the specialties, but some veracious salesmen assert that they were compelled to discount last week's best prices 50c per cwt. to get a clearance.

Taken from all angles the week's market has been eminently unsatisfactory, especially on cattle selling below $8.25 with which the runs has been freighted. The week's receipts here are around 67,000 and it has been a case of too many, although but little in excess of the same period a year ago. Sooner or later winter will get down to business and there is a disposition to dodge the market glut that must inevitably ensue. To aggravate matters a lot of long-fed cattle are still showing up and their season is about over. There has been no scarcity of 1500 to 1700-pound bullocks this week and $8.50@8.80 has bought a lot of them. There has been a pronounced disposition this week to "buy 'em all at one price." This is seasonable, as after holiday trade has been satisfied the long-fed steer has little advantage at the market over one that has been on feed only ninety days. Scrambling for little cattle with quality has been a pronounced trade feature this week. They have been as scarce as the big brutes have been plentiful and everybody wanted a few, consequently the $9@10.25 grades of yearlings have had a market of their own. But the demand did not extend to cheap light cattle of which there has been a surplus and the $7,75@8.25 week have been bad actors. Quotations:

Inferior to rough grass steers	$6:50@7.80
Common to plain steers	7.10@7.50
Plain to medium warmed-ups	7.55@7.75
Medium to good steers	7.75@8.15
Good to choice corn-feds	8.15@8.60
Choice to prime heavy beeves	8.65@9.10
Common to fair yearling	7.70@8.30
Good to prime yearlings	8.50@8.75

She stock values have gone over the bumps this week along with steers, an exception to the rule being choice corn-fed heifers on the yearling order which have been in the specialty class alone with steer yearlings of choice grade and much wanted for the filling of Christmas orders. Best fed heifers close steady with a week ago, but a point lower than the early week high spot when a full car load of prime grade made $9.25 and when there was a heifer end on yearlings selling at $10.25, the year's open market top. Everything else closes irregularly 10 to 25c lower for the week. Canners and prime cows showing the least and fair to good butcher cows and a slippery and medium killing grade of heifers the most loss. The stiff premium being enjoyed by the few prime heifers coming is not expected to be maintained, now that Christmas demands have been met, but the rest of the butcher market now appears to be down to a notch which buyers will encounter difficulty in lowering, although no breadth to demand is to be expected until after the holidays. It is largely at $5 to $6 market for bulk of the fair to extra good butcher cows, a surprisingly good class going at $5.50, while the sale list carries a slim representative of prime corn-fed heifers up to or above the $7 notch. In the heifer line sales above $7.75 are rare and $7.25 is taking a good corn-fed class, while many light slippery heifers of plain to good class are going down to $6.25@6.75 and a common, light fleshed kind down to $5.50 and lower. Bulls have had an irregular price slump. Canner and stocker grades suffering no more than 10@15c, but bulk of the medium to good bolognas 15@25c and big weights both of bologna and fat class showing 25@40c declines. Calves of choice grade sold well early in the week, but slumped off sharply after Christmas orders were filled and nearly all vealers as well as good heavy calves are closing $1 lower than a week ago. Quotations:

BEEF COWS.

Common to fair	$4.60@5.00
Fair to good	5.00@5.60
Good to choice	5.60@6.15
Choice to prime heavy	6.15@7.00
Prime to extra dry fed	7.00@7.60

CANNERS AND CUTTERS.

Inferior canners	$3.25@3.50
Poor to fair canners	3.60@3.85
Good heavy canners	3.90@4.15
Fair to good light cutters	4.15@4.35
Good heavy cutters	4.35@4.60

HEIFERS.

Poor to medium	$5.00@5.75
Medium to good	5.75@6.40
Good to choice	6.40@7.25
Choice to prime heavy	7.25@8.00
Good to prime fed yearlings	7.25@8.25
Prime to fancy yearlings	8.25@9.15

BULLS.

Canner and poor light	$4.60@5.35
Light to medium bolognas	5.40@5.60
Good to ch. heavy bolognas	5.70@5.90
Plain to good beef	5.90@6.25
Choice to prime beef	6.35@7.40

CALVES.

Inferior to fair heavy	$ 4.50@ 5.50
Fair to good heavy	5.50@ 6.00
Good to choice heavy	6.00@ 6.75
Good to ch. stock calves	6.75@ 7.75
Medium to ch. med. weights	6.50@ 7.75
Fair to good vealers	9.25@ 9:75
Good to prime vealers	9.75@10.25

Stock and feeding cattle values present few mutations from a week ago. Some decline was enforced at the week's opening, but country demand developed fairly good breadth the latter half of the week, the decline was for the most part recovered and a better clearance made than last week. Demand from the East has been narrow, Pennsylvania being well filled up from the runs of Canadian stockers when the rush of such stock through the Buffalo gateway was on following the lowering of the tariff bars, but there has been decent demand from Ohio and Michigan, while Indiana and Illinois have taken hold somewhat freely and Kentucky stillery feeders have absorbed a good many. Good light cattle have had the call again and selected yearlings topped the week's market at $7.50, aside from a few breedy calves at higher rates. It has been largely a $6.15@6.85 market for fair to good stockers and a $675@7.25 trade on bulk of the fairly desirable to choice 800 to 1000-pound feeders, with best fleshy heavy feeders at $7.45. Narrow demands until after the holidays is a trade expectancy. Quotations:

Best selected, 950 to 1150 lbs.	$7.25@7.50
Best selected, 650 to 800 lbs.	7.10@7.50
Good to ch., 60 to 1000 lbs.	6.60@7.10
Fair to good, 600 to 800 lbs.	6.10@6.60
Com. to fair, 500 to 700 lbs.	5.35@6.10
Inferior to com., 500 to 700 lbs	4.85@5.35
Good to choice stock heifers	5.65@6.25
Poor to good stock heifers	4.75@5.65
Good to choice stock cows	5.00@5.35
Poor to good stock cows	4.50@5.00
Good to choice stock calves	6.75@7.75

The first half of the week registered the arrival of 150,000 hogs and the week's total will reach about 224,000, or several thousands more than the week previous and the largest week's total for five years. All around the market circle the horizon wears a hoggy appearance, but the movement savors of liquidation and means spring and summer scarcity. The present movement is freighted with 140@190 pound shoats, while there is an unseasonable scarcity of heavy weights. The break this week may check the marketward movement, but the country is in selling mood. In five days, this week the eleven principal primary points received 650,000 hogs, against 618,000 last week and 450,000 a year ago, and the figures speak for themselves.

Considering the fact that combined hog receipts at Chicago the first three weeks of this month will total about 750,000 the market has held up wonderfully well. The general average price on Friday was $7.61 or 12c lower than a week ago, 7c lower than two weeks ago and only 4c lower than three weeks ago.

While pigs have largely disappeared at the market there is a profusion to 150 to 200-pound stuff in the run and growers' anxiety to unload young hogs forecasts a shortage of material for the lard kettle. Stock yard opinions is not always reliable, but there exists confidence of short hog runs along in March and materially higher prices. Friday's closing quotations follow:

Bulk of sales	$7.55@7.65
Mixed, 215 to 250 lbs	7.45@7.60
Mixed, 170 to 200 lbs	7.40@7.50
Medium weights	7.55@7.65
Light butchers	7.55@7.60
Heavy butchers	7.65@7.70
Light shippers	7.50@7.55
Heavy shippers	7.65@7.75
Heavy packing	7.55@7.65
Rough heavy packing	7.40@7.50
Throwout packing sows	7.00@7.40
Fair to choice light	7.35@7.55
Light-light 135 to 155 lbs	7.20@7.40
Pigs, good to fancy	6.90@7.60
Pigs, inferior to fair	6.00@6.80
Boars, inferior to fair	2.00@3.50

Improbability that cheap mutton is likely to follow free trade was suggested this week, when a London order for fat sheep reached Chicago. British market conditions warrant the purchase of wethers at $5.25 per cwt., a price at which they are not available. Argentine exports of frozen mutton have decreased rapidly of late and British production of mutton and diminished to an extent that makes importation of American sheep possible. Despite elimination of the duty fat sheep are now worth 50 per cwt. more on the Chicago market than a year ago. Such authorities as Frank J. Hagenbarth, of Idaho, and Robert S. Matheson, of Chicago, predict an acute scarcity of both lambs and mutton, a condition for which free wool will be to some extent responsible, that prospect having caused wholesale liquidation by flock masters of the trans-Missouri region. Canada is already buying 75 per cent of the ovine stock it needs in Montana. One packing concern has frozen and forwarded to Winnipeg from St. Paul and Chicago during the past two months some 30,000 fat sheep carcasses and demand from that quarter is for more.

LACHMILLER'S CHESTER WHITE SALE

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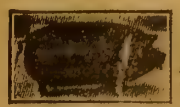

MESSENGER'S HAMPSHIRE SWINE

100 BRED sows and gilts will be sold at auction at Keswick, February 24, 1914, 50 of them by Messenger Boy 6179, the undefeated grand champion of 1912 and 1913. The other 50 head are sired by Messenger Boy 6179 and bred to a grand champion boar. Nothing for sale privately.

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A few good immuned gilts bred for March and April farrow for sale at reasonable prices. Also a number of first-class herd-heading prospects of September farrow that have been given double treatment. **W. H. Dunbar, Jefferson, Iowa.**

Choice Poland China Boars

SIRED by Western Hadley 198195 and he by Big Hadley 167563. The dams are sired by Perfection Chief and he by Chief Perf. 2d 42559. These hogs are March and April farrow and bred for bone and length. E. R. McAllister, R. 2, Emmetsburg, Iowa.

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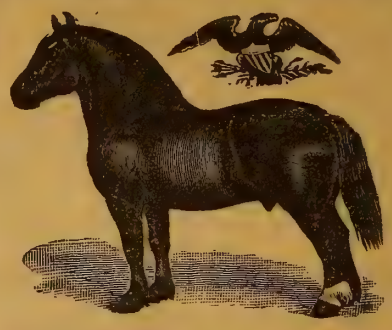

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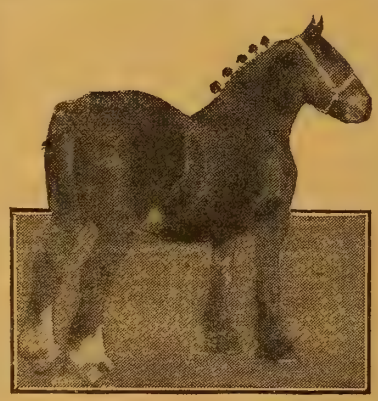

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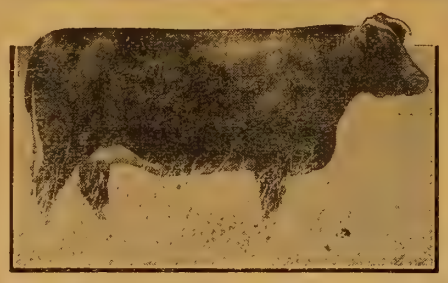

55 HEAD---43 FEMALES AND 12 BULLS---55

I AM selling a splendid lot of good useful cows and heifers and some rugged young bulls. There will be **Lavender, Orange Blossom** and other popular families in the offering. I am selling my herd bull, **Improver 2d 342773,** a Princess Royal, sired by Challenge Missie, used successfully by S. H. Thompson's Sons for several years. The young heifers and bulls are sired by Improver 2d. Several cows are by Count Inglewood, a Scotch son of Imp. Inglewood, and a few heifers are by Royal Star, a Scotch son of Coming Star. The cows are regular breeders, good milkers and easy feeders. **17 DRAFT HORSES** will be sold; 5 mares safe in foal and a good two-year-old grade Shire stallion weighing 1,700 pounds. Cols. McIlrath and Cubbage, Auctioneers.

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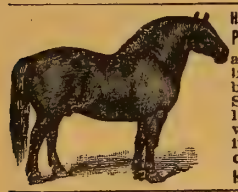

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10 PERCHERON STALLIONS 10

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WE are offering for sale 12 choice young bulls, most of which are Scotch, and ready for service. These are mostly sired by our great show and breeding bull **Ruberta's Goods,** and other noted sires. There is some splendid herd bull material among these. Write us or come and see them and mention Iowa Homestead. Address
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15 VERY SELECT SHO RT-HORN BULLS--15

I AM offering **15 head of the best young bulls ever seen on one farm. Twelve of these are straight Scotch,** of the **Orange Blossom, Princess Royal, Dainty Dame, Miss Ramsden, Lancaster Rosebud, Lady Fragrant** and **Lady of the Boyne** tribes. Among these is the g 2-year-old bull, **Scottish Rex,** a Campbell Rosebud, and one of the best herd bull propositions offered the country today. Write or come and see me at once. Address
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THIRTY splendid young bulls, ready for service, toppy, showy fellows, just right for those who want the best. Such good families as Victoria, Orange Blossom, Duchess of Gloster, Missie, Mysie, Golden Drop, Violet Mist and others of note—largely descendants of the old Albert Harrah herd that has been one of the biggest and best in the land. I want you to see these cattle before you buy. Will meet trains if notified. Address, mentioning The Homestead,
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SALES made in any part of the country. Thoroughly posted in the various breeds. Write me for dates at once.

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A FEW young bulls and heifers of the choicest Scotch breeding. We have only the best. Write us your wants, mentioning The Homestead
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I HAVE a few good bulls, 8 to 12 months old; also heifers. All blocky, blood reds, for sale. Address
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I HAVE two extra good Scotch-topped yearling bulls by King Banff 3d, that I am pricing very reasonable. If you need a bull write or visit me at once. I will hold a sale of Scotch Short-horns on June 9, 1914. **M. W. MYERS, BEAMAN, IA.**

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I HAVE a good Lancaster bull sired by Western Star. Also a good Duchess of Gloster sired by Victor Sultan, and a Marsh Violet; from 12 to 18 mos.
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YEARLING bulls and bred heifers, reds and roans, by a son of Cumberland's Last; also 15 cows with calves at foot. J. T. Swearingen & Son, Hedrick, Ia.

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175 REGISTERED HEREFORD BULLS FOR SALE 175

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COWS AND HEIFERS FOR SALE

WE are offering two car loads of well bred Angus cows and heifers for sale, half of which have calves at foot, sired by our noted show and breeding bulls. **30 head choice bulls.** We are offering some of the best young bulls we have ever raised. If you want a good bull we can fill your order. Make it a point to see our great bunch of show steers at the International. When writing us mention Iowa Homestead. Inspection invited. Come and see us at the farm.
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20 HEAD of fall and spring boars sired by Chief Select 21105 and Hiawatha 22147. Chief bred boars right in type and size of that kind. Among these are specimens right for pure bred service, and others that will sire the high-selling prize-winning barrows. They will please. If you want Chesters that are right and can be bought right get in right by making selection from this herd. Bred sow sale Jan. 28, 1914.
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I HAVE 20 choice spring boars sired by the champion boar, Don Raymore 19139, and these will make good herd boars. I also have a good fall boar and these are out of my very best sows. Write me or come and see me. Address
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BRED to farrow in March. Bred to such hogs as Lewis E., Col. Evans, Nagle's Kind and Right You Are. Do not fail to place an order for from one to five of these bred sows. Also 35 fall pigs for sale. Buy a trio of these pigs. No akin. Address, mentioning The Iowa Homestead,
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GOOD ONES. March and April pigs sired by **Good Goods 21423** and **White Wonder 22581. Bargain Prices** for 30 days. Shire stallion and mares for sale of the best breeding. Aberdeen Angus cattle, either sex, for sale.
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BIG-TYPE Chester White boars, Sweepstake 28006, weighing 1,260 pounds (first and champion boar at Iowa, 1912) and Jumbo 14035, weighing 1,210 pounds. Both died in our possession and we have their breeding in our herd. Big catalog free. All sows reserved for bred-sow sale February 10, 1914. Write
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FOR SALE 35 spring boars weighing from 225 to 250 pounds in breeding condition. If you are looking for quality, stretch and bone come and see them or write me. Will ship anything on approval.
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Chester White Herd Boar
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A TWO-YEAR-OLD son of Onward, dam Lady White by Enterprise 2d, a hog of extra length, heavy bone, smoothness and a good breeder. Can use him no longer. Also Chester White spring boars for sale. Address
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C. C. EVANS - NORTH ENGLISH, IOWA

100 HEAD OF O. I. C.
BOARS AND GILTS FOR SALE--GOOD ONES

DESCENDANTS of grand champions. Some very fancy yearling gilts, bred or open. Some cracking good 12 weeks pigs at $10. All priced right for quick delivery. Also 2,000 bushels of **House Dried Seed Corn,** guaranteed 98% germination. Write me if interested. **H. Z. O'HAIR, Prop., Grand Prairie Seed Farm, Bushton, Coles Co., Ill.**

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STILL have a few choice fall yearling boars; also some spring and early summer boars. An extra choice lot of bred sows and gilts. Daughters of U. S. and Fairmont Chief bred to two of the best herd boars I could possibly find. Also some fall pigs, either sex for sale. Everything that I ship is first class. You will do well to write immediately.
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FOR SALE of March and April farrow, also one choice yearling bred by B. M. Boyer & Sons. Good length, heavy-boned type, weight 150 to 200 lbs. Guaranteed breeders at farmers' prices. Satisfaction guaranteed. Chas. Boyd, Williamsburg, Iowa.

FOR SALE

6 HEAD of Chester White male pigs, sired by prize winning boar. Weight 200 lbs. Extra good quality and bone. Address
H. MEYER, STAPLEHURST, NEBRASKA

MORNING SUN HERD CHESTER WHITES

I HAVE a choice lot of spring boars, sired by Fancy Boy 16595; he by Sweepstake 28006, the 1,260 pound hog. These pigs have good length, heavy bone, smooth, growthy fellows. Prices right. Write me your wants.
WM. STOLL - LE MARS, IOWA.

CROSIER'S O. I. C. HOGS

WE are offering a fine lot of spring boars, also gilts of the same ages. This is one of the oldest herds in the state, and our crop this season is good. Nearly all by Harvey's Choice. Address today
CHAS. W. CROSIER - JUNIATA, NEB.

50 Chester White Bred Sows 50

SOME gilts, a few spring boars, and one of my herd boars. Best lot I ever raised. Superior breeding. **S. J. PHILSON, R. 6, HARLAN, IA.**

CHESTER WHITE SPECIALS. Some extra choice boars, well bred, well grown at $22.50 to $50.00. Two excellent fall boars at this price. Address Harry J. Anderson, Beaver Crossing, Neb.

O. I. C. and **Chester White.** Feb., Mar., Apr., and May boars and gilts, no kin. Bred Sows. Young herds a specialty. Prolific, large kind. Pedigrees furnished. Prices reasonable. **Fred Ruebush, Scioto, Ill.**

ONE yearling and several spring Chester W. boars with plenty of size, length and bone; of best breeding. Prices low. F. E. Penningroth, Wellman, Ia.

MARSHALL SWAYNE, Marion, Iowa, has a few good Chester Whites for sale. Both sexes. Descendants of the well-known herd of V. H. Lathrop

CHESTER WHITE BOARS—Reduced price to $18 and $20. Satisfaction guaranteed. Record free. Address F. Trumbaur, St. Charles, Iowa.

SIXTEEN HEAD OF FALL BOARS

SIRED by Alright, a hog that took 3d prize at the Iowa State Fair in 1912. Also 30 head of spring boars and a number of yearling sows bred for fall farrow, also some good gilts of March and April farrow. For further particulars write or call on
P. H. SHERIDAN - - - VAIL, IOWA

Slepickas' Immune O. I. C.'s

BIG-BONED, stretchy boars of the very best breeding, all immune are for sale at farmers' prices. Sons of Wilber O. K. and Grand View Choice offered. Nothing better. Address
J. V. SLEPICKA & SONS - WILBER, NEB.

Immune O. I. C. Bred Sows

AM offering the grandest lot of gilts ever raised on our farm. They are mostly bred to the first prize boar, White Hope, also Combination's Last. If you wish good hogs at right prices, write me.
AMOS TURNER - WILBER, NEBRASRA

RED POLLED CATTLE.

RED POLLED BULLS

A few very choice bulls, some of them by the great Happy Jack 2d, without question one of the very best of the breed. Order today, or write for full description and prices. Mention The Homestead and address Luke L. Wiles, Plattsmouth, Neb.

YOUNG BULLS

RANGING in age from Sept., 1912, to three months old. Heifers bred or open. Write your wants or come and see them. Farm reached either from Clare or M. & St. L. or Barnum on I. C.
FRANK J. CLOUSS - BARNUM, IOWA

HOLM'S RED POLLS

TWO very choice Red Polled bulls and a limited number of females for sale. Also spring and fall Duroc Jersey boars. Nels H. Holm, Osceola, Neb.

CEDAR LAWN RED POLLS

HERD headed by Red Prince 21779 and Forester 22308. Some excellent young bulls for sale. Address M. H. Christiansen & Son, Plainview, Neb.

Maple Grove Red Polls Offering choice bull calves and young cows and heifers. W. B. Danforth, Little Cedar, Ia

When writing to advertisers please mention The Homestead.

40—CHESTER WHITE BOARS—40

I HAVE 40 large, heavy-boned boars, and 40 choice gilts sired by Argos 16877. Every individual guaranteed a breeder. All have been vaccinated and all dams are immune. Satisfaction guaranteed. Farm 1¾ miles from town.
FRANK A. GOULD, ROCKWELL CITY, IA.

CHOICE CHESTER WHITE MALES

FOR SALE, weighing from 200 to 250 pounds just in stock condition. Sired by Michigan Chief, an 800-lb. boar; extra good bone. Price $30 if taken soon.
J. T. SCARFF - - - - SALEM, IOWA

O. I. C. BOARS

OF the big, smooth type for sale. Address
ALLEN BROS. - RUSSELL, IOWA.

Chester White Gilts Bred to a very rangy, heavy-boned boar for spring farrow, at $25 to $30, weight 180 to 225 pounds each. Address **Will Michael, Selma, Iowa.**

G. H. TUTT, Marathon, Iowa, breeder of Chester White hogs. Herd immuned and in good health. Big, good, and well bred spring boars for sale. Prices reasonable.

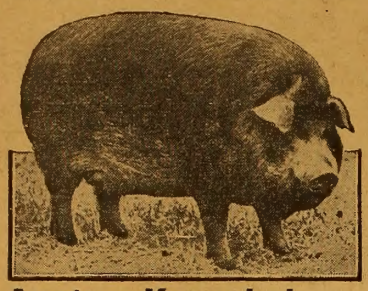
O. I. C. SPRING BOARS AND GILTS Fall pigs, both sexes. **W. Doolittle, Woodland, Mo.**

IMMUNE O. I. C.'s Boars and sows, priced right if taken soon. Address **GEO. W. DE BAR, AURORA, IOWA.**

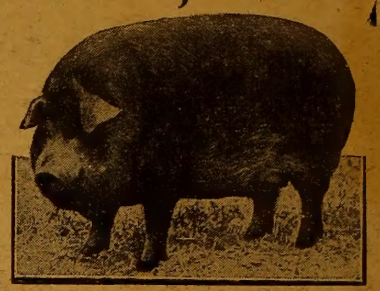
WILSON'S DEFENDER DUROC SOW SALE

TO BE HELD AT THE FARM ADJOINING

WEST BRANCH, IOWA, WEDNESDAY, JANUARY 7, 1914



50 IMMUNE DUROCS 50



MY herd has had the double treatment. There will be 14 aged and yearling sows, among them 6 grand, big, smooth, long, yearling sows by Wilson's Defender, the great litter mate to Disturber. There will be 2 good gilts by Golden Model 2d, dam by Chief Select. The other 34 gilts are sired by Wilson's Defender and Wilson's Crimson Wonder. The sows are bred to Wilson's Defender, Chief Gano and one of the good sons of Col. Gano and Select Model, a son of Golden Model 2d, and out of a Chief Select sow. I have the kind that will suit the breeder and the farmer. The breeding is as good as the herd books contain. Send bids to Carlos C. Palmer, Homestead field man, in my care. Write me for catalog, mentioning The Homestead.

Aucts.—Kraschel, Albin and Gibson

I. J. WILSON, WEST BRANCH, IOWA.

DUROC JERSEY SWINE.

40 Duroc Jersey Boars

I AM now offering some splendid boars for sale sired by **A. F.'s Pilot Wonder** and **Model Gano** out of daughters of Col. Gano, Crimson Wonder Again and Kruger Advance. Price $25 to $40. Write me at once and mention Homestead. Address

A. F. HAGER - - - - AVOCA, IOWA

MY ANNUAL SALE OF

DUROC JERSEY BRED SOWS

WILL BE HELD

JANUARY 21, 1914

40 GRANDLY-BRED SOWS and bred to good boars at your prices. Write for catalog, mentioning The Homestead. Address

C. A. MOULTON, MORRISON, ILLINOIS.

MENAUGH BROS.

Gardner - Illinois

OFFER choice **Duroc** boars of spring and fall farrow sired by Model Boy, O. & I., Superba Jr., and Goodenough Yet. Also **Polled Durham** bulls and heifers of the best Scotch breeding. Write them for prices.

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50 Immune 50

DUROC JERSEY BOARS

GET busy and order one of these good fall or spring boars. I never had a better lot and I will ship you a good pig at from $25 to $50. Come and see these if you can, or phone or write me. Address

MADISON SPENCER - AUDUBON, IOWA.

FRANK'S DUROC JERSEYS

IMMUNE BOARS

MY herd have been given the double treatment and are absolutely free from disease and proof against cholera. Spring boars for sale. Breeding the best in the land. Quality right and prices to suit.

SOL FRANK - SIOUX CITY, IOWA

CLOSING OUT DUROC BOARS

A FEW very choice Duroc boars of spring farrow for sale at right prices. Best of breeding, and only our best saved for breeding. Address

F. E. MERRICK, OSCEOLA, NEBRASKA.

TROY'S DUROC JERSEYS

FEBRUARY, March and April boar pigs of popular lines of breeding and quality that will bear inspection. For prices and descriptions write or telephone. Farm near town. Address

J. W. Troy & Bros. - Rose Hill, Iowa

DUROC JERSEY BOARS

IMMUNED BY GOVERNMENT EXPERT

SPRING pigs, 200 pounds and over, by Jumbo Wonder (son of Crimson Wonder Again) and out of big, well-bred dams. Write me. Address

GEORGE T. WHITE, Dallas Center, Iowa.

FALL AND SPRING BOARS

OF richest breeding, good individuals and in good thrift are being priced well worth the money in order to move them quickly. Would like to tell you of these Durocs and be pleased to have you visit the herd. Address H. D. Gelken, Cozad, Nebraska.

For Sale SIX DUROC JERSEY BOARS, three of them are extra good; four are sired by Nebraska Crimson and two by Sensation Wonder. Write Ed Freese, Nora Springs, Ia.

Kean's Duroc Jersey Boars

GILTS and tried sows, long stretchy kind. Priced to move them. Frank Kean, Mt. Pleasant, Ia.

"QUALITY" in Duroc boars and gilts by Col. Kruger, Defender's Likeness, Model Chief I Am and Prince A.'s Col., first prize senior pig Int. 1912. Price $25 to $35. A. Nevins & Son, Modesto, Illinois

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JOHN JUSTICE, Ankeny, Ia., breeder of Duroc Jerseys. Cherry Boy heads herd, Model Chief, Crimson Wonder Strains. March and April boars for sale.

DUROC JERSEY SWINE.

A. J. & L. L. DE YOUNG'S SALE OF

Duroc Jersey Bred Sows

SHELDON, IOWA, JANUARY 13, 1914

58 HEAD—38 CHOICE GILTS. 10 TRIED SOWS 10 FALL SOWS—58 HEAD

WE are selling one of the most useful offerings of sows that has ever left our herds. These are sired by **Big Bone Climax, King of Cols. Again, Model Chief I Am, Crimson Sol, De Young's Indicator, Crimson Advance, De Young's Col., Golden Model 11th,** and other good boars. These are bred to **Cherry Wonder, Crimson King** and **Crimson Perfection.** We are selling a great lot of sows and we will be pleased to have you attend our sale. Catalog sent on application. Mention The Homestead when writing for it. Address

COL. H. S. DUNCAN, Auct. A. J. & L. L. DE YOUNG, Sheldon, Ia.

DUROC JERSEY SWINE.

Cherry Chief Herd Boars

I HAVE some fine spring boars sired by **Cherry Chief,** the sensational sire of Chief Select, Cherry King, The Chief Col. and others; also a few by Proud Col. Dams by Proud Col., Model Wonder, Proud Ohio Chief, Macon Chief, Valley Chief and others. Write me for prices on these good pigs, mentioning The Homestead.

J. C. DROZ - - - FAIRFIELD, IOWA

SOWS BRED TO BIG WONDER

WE are offering **10 choice fall sows** and spring gilts bred to our Iowa State Fair **grand champion boar, BIG WONDER,** regarded as the greatest boar now living. He **weighed 750 lbs. as a yearling,** and those who have seen him recently pronounce him the greatest Duroc Jersey boar now doing service in any herd. Daughters of Col. Gano, King the Col. and Morton's Top Col. are now offered for sale bred to him. Write us at once for prices on these sows and mention The Iowa Homestead. Address

ECONOMY STOCK FARM, MEL KRASCHEL, Manager, SHENANDOAH, IOWA.

Sunnyside Duroc Jersey Boars $25 to $40

IMMUNE boars of spring farrow, safe to go into any herd. I have 35 of them that are big, husky, strong boned fellows, and from the most popular lines of breeding. First orders get first choice.

M. A. M'WILLIAMS - - - - R. F. D. 1, WALL LAKE, IOWA

IMMUNE BOARS---IMMUNE BOARS---IMMUNE BOARS

DAVIDSON'S CRIMSON WONDER BOARS ARE NOW IMMUNE. Fall boars $30 to $50, sired by Golden Model Jr. Spring boars $25 to $100 by Golden Model Jr. and Crimson Wonder Am I. Write

U. G. DAVIDSON - - - - - - ALGONA, IOWA.

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28 DUROC JERSEY BOARS FOR SALE

I HAVE a fine lot of big boned smooth boar pigs farrowed in March and April sired by Cramer's Keep On, a son of Model Keep On, and out of such sows as Muncie Bess 2nd, Iowa Beauty 3rd and Lucy Wilkes. My pigs have size and quality and will please you. My price is low for the quality of boars of this kind. Mention The Homestead when writing.

H. O. HOUGLAND, - - STORY CITY, IOWA

A FEW BOARS, GILTS BRED OR OPEN, AND FALL PIGS

A FEW choice Duroc Jersey boars, April, May and June farrow at $20 and $25. Extra choice gilts open or bred to the great Royal Wonder. Also a nice lot of September pigs sired by Royal Wonder at $10 and $12.50 each. This is one of the greatest boars of the breed and a great opportunity to start with the best. Address, mentioning The Homestead.

D. S. COCHRAN, R. F. D. 7, LINCOLN, NEB

COL. SENSATION 98261

THE sensational Big-type Duroc Jersey boar of the year. Weighed 1,055 pounds on July 24, 1913. He now weighs 1,055 pounds, and he is one of the greatest large-type Duroc Jersey boars you have ever seen. He is a son of that sensational sire, King the Cols., and he is one of the best-big-type boars you ever saw. Will be pleased to show him to you. If you come to the farm. Address

J. B. ASHBY - - - - AUDUBON, IOWA

DUROC JERSEY BOARS AND GILTS

I HAVE a choice lot of large, heavy-boned boars and gilts sired by Audubon Col. (by C. & E.'s Prince of Cols.) and out of sows by Crimson I Am, Long Chief D., Attraction and R. H.'s Prince. I will breed gilts to Lucy Wonder's Col. (a half-brother to the grand champion boar Disturber). Come and see me, or write mentioning The Homestead.

CHAS. W. NOBIS, HANOVER, ILLINOIS

Golden Model Breeding

DUROC JERSEY boars of March farrow, by A. R.'s Golden Model (son of Golden Model) and A. R.'s Professor. Dams by Golden Model, Advancer No. 1 and Waveland Col.

A. R. OLSON - - - WOODWARD, IA.

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40 Choice Duroc Jerseys

SPRING and fall, male and female, the best of breeding, long heavy boned, sired by Ill. Chief 132673, Supreme Goods 129637, Superba Jr. 37219 and dams of equal merit. Write me your wants.

W. F. DRUMMY - - RYAN, IOWA

---

100 Immune Duroc Boars

SELECTED from a crop of 350 head. All immuned with double serum treatment. No money down. Will ship on approval. Order without delay. All best of breeding. Address

F. C. CROCKER - FILLEY, NEB.

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50 DUROC JERSEY IMMUNE BOARS 50

IF You want immune boars, I have them. Fifty head sired by King of Cols. Again, Big Bone, Climax and Crimson Col. Everything immune. Write me quick. Mention The Homestead.

A. J. De Young - - - - Sheldon, Iowa

DUROC JERSEY SWINE.

DUROC JERSEY PIGS

I HAVE a fine lot of September and October pigs of both sexes that I will sell reasonable. They are of the best breeding and well grown. Don't forget my bred sow sale February 2, 1914. Address

HUGH M. FICKE, LONG GROVE, IA.

DUROC JERSEYS AND SHORT-HORNS

25 Choice Boars 30 Choice Gilts

MOST of them sired by Ohio King. Others by Rockford Pride and Defiance. Good color, strong boned, well grown. Strong in the Ohio Chief, Colonel, Advance and Crimson Wonder strains of breeding. I also breed straight Bates, Dual Purpose Short-horns and have six nice bulls 7 to 9 months old sired by Sittyton Duke the 6th for sale.

B. W. LITTLE, R. 7, JANESVILLE, WIS.

Crabs' Durocs

I HAVE 150 lengthy, heavy-boned spring pigs sired by Clay Hill Wonder (out of the dam of Defender), Red Model (a Crimson Wonder boar) and Orion's Pride (by Orion Chief). My herd contains the best of prize-winning blood lines. I am pricing the best of these, of either sex, very reasonable. Write me for prices on what you want, mentioning The Homestead. Can ship by U. S., Adams or Wells Fargo express.

E. CRABS - - - - ALEDO, ILLINOIS

S. E. EAKLE & SONS

PROPHETSTOWN, WHITESIDE COUNTY, ILLINOIS.

HAVE about 25 head of Duroc Jersey bred sows to sell at private sale. These are the right kind, well bred and are safe in pig to our great herd boars. We have a great lot of fall pigs for sale of both sexes and we will price either the fall pigs or bred sows very reasonable. They are bred right and have the bone and size. Boars of serviceable age all sold. Bred sow sale January 22, 1914. Write us mentioning The Iowa Homestead.

Duroc Jersey Boar

A YEARLING Duroc Jersey boar for sale sired by the grand champion Chief's Col. 22875A. A splendid animal, cholera immune. For price and further particulars address, mentioning Homestead,

H. E. HUSTON,

IOWA FALLS, - - - IOWA

DUROC JERSEY GILTS

I HAVE a fine lot of big, growthy spring gilts sired by Joe's Col. (by Proud Col. dam by Model Wonder), and Wonder's Model that I will sell open or bred. They are being bred to Joe's Col., a son of Golden Model II. and a son of Wonder's Model. Write for prices, mentioning The Homestead, to

JOHN KREBS - RIVERSIDE, IOWA.

THOMPSON FARM

FOR choice Duroc Jersey boars, immuned by double treatment, Oct. 7th and 8th. Price to move quickly. Call or write, mentioning Homestead.

WILL THOMPSON, R. 2, JESUP, IOWA

Duroc Jersey Hogs

YEARLINGS and spring boars for sale at a price that will move them; also a few sows and gilts that are bred. Have all been vaccinated. Write your wants to John H. Berry & Sons, R. 6, Iowa City, Ia.

DUROC JERSEY BRED SOWS. Have 20 Mar. and Apr. gilts, 5 fall yearling sows 5 aged sows bred to a son of Col. J. by Proud Col. and out of a dam by Wonder Model. These sows and gilts very reasonable. They will farrow in March and April. A few summer gilts for sale sired by Prize Wonder.

FRANK N. CROW - OXFORD, IOWA.

YEARLING DUROC JERSEY BOARS

I HAVE two October yearlings by R. J.'s Chief and out of a Crimson Wonder Again dam. They weigh 325 to 350 pounds; have extra length, good bone, strongly arched backs, good heads and ears and are cholera immune. Address

J. C. Porter, Ogden, Boone County, Iowa.

DUROC Jerseys—Big, growthy March boars, cholera immune. Pedigrees furnished, prices right. Satis. guar. A. H. Floyd & Son, R.1, Faribault, Minn

POLAND CHINA SWINE.

COOPER'S BIG-TYPE POLAND CHINAS----Guaranteed Cholera Immune

BRED GILTS AT FORTY DOLLARS EACH

WE are going to sell a limited number of March and April gilts bred for March, April or May farrow at this price. They are sired by and bred to **Big Bone 2d, the 1,000 pound son of Big Bone; Chief Leader, a 700 pound yearling; Big Expansion, the 900 pound son of Dorr's Expansion; Giant Look** and other boars of big-type blood lines. **The dams are sows weighing from 500 pound yearlings up to sows of over 800 pounds. LISTEN!** If you want some of these gilts send your check, do not ask us to measure them or give you a detailed description. We do not have time to answer so many inquiries. All are good marked—no defects. **If they do not suit send them back and we will return your money. We will refund your money if they die from Cholera, or replace with one of equal value.** Send your order at once if you want them, as they will not last long at this price. Address, mentioning The Iowa Homestead, **W. H. COOPER, HEDRICK, IOWA**

HALFORD'S
G-TYPE POLAND CHINA BOARS

offering 20 extra choice boars for sale—**15 fall boars** and **5 spring boars.** Sired by the great winning boar, **Mabel's Wonder, Long Jumbo** and **Chief Price 2d.** These are out of daughters of A Wonder, Long Chief and Big Chief. Write for prices or come and see me. Address
HALFORD - - - - - - MANNING, IOWA

20 BIG-TYPE POLAND CHINA BOARS

...Y and June boars weighing from 75 to 150 pounds, at $15 and $25 each, registered, and express paid to anywhere in Iowa. Pigs sired by Big Spot (by Big Wonder, a son of A Wonder) and out of Mastodon sows. These pigs are farm grown and have not been stuffed. Have also some bred and open sows and spring gilts. Fall pigs delivered Dec. 1st at $15 each.
H. E. BURGUS - - - Route 6 - - - OSCEOLA, IOWA

45 IMMUNE POLAND CHINA BOARS 45

ENTIRE herd vaccinated and everything **immune;** 45 choice boars sired by **Porter's Hadley Expansion, Oakwood Pawnee 2d** and **Smooth Big Bone.** Big-type boars, out of the most noted large-type strains, big-bone, stretchy fellows. Prices $30 to $50. Order your boar now and get your pick. Address
C. H. PORTER "Oakwood Farm Poland Chinas," EAGLE GROVE, IOWA

BIG-TYPE POLAND BOARS

I HAVE a fine lot of big, smooth Poland China boars of spring farrow sired by Long King, by Long King's Equal and O Wonder, a grandson of A Wonder. I can suit you in a boar at a right price. Write me, mentioning The Homestead. Address
J. A. BEAUMASTER, ELMA, IOWA

Easy Feeding, Heavy-Boned, Big-Type Poland China Hogs

8 EXCEPTIONALLY good fall of 1912 boars at $40 to $50. Special prices on last of March and April boar pigs. Choice at $25, and some less. Must sell as I am short on room. Excellent bred gilts at $30 to $35 per head, all sired by Ex.'s Wonder and Iowa's Product. Fall pigs at $12 and $15 at weaning time. Bred yearling sows at $35 to $40. Guaranteed safe delivery. Perfect health, no disease in neighborhood.
J. B. HEISEL - - - - GRINNELL, IOWA

45 Poland China Fall and Spring Boars

I AM offering 16 splendid fall boars sired by **Blain's Exception, Big Victor** and **Mammoth Prospect,** and **30 choice spring boars** sired by **Panama Chief** and **Mabel's Wonder,** 1st prize Iowa State Fair boar. **Prices $20 to $40.** All out of sows vaccinated last fall. Write me at once and mention The Iowa Homestead. Address
A. W. STEWART - - - HARLAN, IOWA

25---IMMUNE POLAND CHINA BOARS---25

I AM offering 4 choice fall boars for sale, one of which is a high-class boar and was first prize boar at Crawford county fair. The other three are also good, stretchy boars. **Twenty choice spring boars** sired by **Golddust Wonder, Long Orange** and **Defender Again Price.** These are big-boned, stretchy fellows and $25 to $35 gets these. Everything **vaccinated and immune.** Write me at once and mention Iowa Homestead. **C. M. PEDERSON - - - - DUNLAP, IOWA**

IMMUNE POLAND CHINA BOARS
A Few Tops at $50 Each

THE balance go at from $30 to $40 each. Twenty head to select from. Sired by my 1,000-lb. Smooth Wonder 2d and 1,000-lb. Chief Price Jr. Also a few choice fall pigs of either sex. Come or write for what you need. Address, mentioning The Homestead.
M. P. HANCHER, ROLFE, POCAHONTAS COUNTY, IOWA.

CHOICE POLAND CHINA BOARS

15 DAYS' BIG BARGAINS. I have a few good, smooth, big-boned boars left. Sired by mammoth herd boars, Big Standard and Giant Lad, and $20 to $25 gets them. Were all through cholera early in the fall and are all thrifty. Also 25 head of good gilts. Write at once, mentioning The Homestead.
WM. H. NOLIN - - - - MONROE, IOWA

Big Orange, Big Sampson and Colossus Blood

TWENTY big husky March and April Poland China boars, sired by as big a hog as any man owns. My prices are very reasonable for such classy stuff. I have not had a pig die from disease for twelve years. I sold more fall boars at the Iowa State Fair and at a higher average than any other exhibitor. The boars now for sale are just as good. Address **A. J. BANKS, MONTOUR, TAMA COUNTY, IOWA.**

I WILL GIVE YOU A PIG IF YOU ARE NOT SATISFIED

CHOICE bred big-type Poland China gilts, sired mostly by Cox's Wonder, by Rood's Giant and out of a Long King sow, bred for March and April farrow. Also some big rugged boars ready for use. Prices reasonable. Address, mentioning The Homestead, **B. F. MARMION, FARMINGTON, IOWA.**

POLAND CHINA BRED SOWS AND GILTS

ABSOLUTELY none bigger or better bred than the gilts that we are offering from our herd at this time. The gilts are all early farrow and are big, extra big and they are well bred. Sired by Old Reliable by Long King, Roseler's Giant by Long Chief and others. Bred to A Columbus and to King Cole by Big Orphan. Write us for the big ones.
WARP BROS., MINDEN, NEBRASKA

22 BIG-TYPE POLAND CHINA BRED GILTS FOR SALE 22

I AM offering **22 head** of **choice big-type gilts for sale,** sired by my two great herd boars **Colosso 2d** and **D.'s Wonder;** 9 Colosso 2d gilts bred to D.'s Wonder, the great son of A Wonder, for March and April litters. These are good. Write me for prices at once. Mention The Homestead.
W. T. DUBOIS - GREENVILLE, IOWA.

Big Poland Chinas

THIRTY gilts bred to Big Price 2d, a two year old. He measures 6 ft. length, 6 ft. girth, 12¼ inch bone. Write, mentioning The Homestead, to
H. LENZ - - - - - LANSING, IOWA

FAULKNER'S SPOTTED POLANDS

ARE the **old original big-boned spotted kind.** Write your wants. Address
Homer L. Faulkner, Box 117, Jamesport, Mo.
Not the originator, but the preserver.

GOOD LUCK HERD
POLAND CHINAS

FORTY head of big-type, quality kind fall and spring boars for sale. Sired by Giant Wonder 181793 and F.'s Longfellow 197311. Fall yearlings from $35 to $50. March and April for $30 to $40, shipped express prepaid and registered. Satisfaction guaranteed. Write for description. Address
L. S. Fisher & Son, R. 1, Edgewood Iowa.

JOHN C. NYRUP'S
POLAND CHINA BOARS

I HAVE 40 choice boars for sale that I will ship for $25 and upwards. Write me your order at once.
JOHN C. NYRUP - HARLAN, IOWA.

Poland China Spring Boars

BY Again Chief Price 192035, 2d prize winner at Iowa State Fair, 1912. Also gilts, large, growthy, easy feeding type with plenty of length and bone. At farmers' prices.
BLAKE & BLAKE, MAQUOKETA, IOWA

BIG POLAND CHINAS

WE maintain a herd of big Poland Chinas of the very best blood lines. We are booking orders for spring boars; some of these are excellent. Drop us a line for prices and full descriptions. Address
Pitz & Adams, Plattsmouth, Nebraska.

HALF PRICE THIS MONTH

TOO many Poland China boars. Prices cut to get rid of them. 160 to 300 pounds. Sired by Orange Boy (1,000 pounds). Perfect health, $20 to $35. Will ship on approval. Satisfaction guaranteed.
M. G. Arnold & Son, Strawberry Point, Ia.

33 POLAND CHINA BOARS

EVERYTHING **immune,** will weigh from 175 to 200 lbs. Sired by **Giant Wonder** and **Long King's Equal 2d.** Extra good boars $25 to $40.
W. CREES - - COON RAPIDS, IA.

20 BIG-TYPE POLAND CHINA BOARS

40 SPRING and fall gilts bred, sired by Ring's Sensation, Pleasant View Hadley and Sensation Keep On, out of 600 and 700 pound dams. Farmers' prices. All immune. Address
RING BROS., NEWTON, IOWA.

Big Poland China Boars

FALL and spring boars by a son of Big Jones. Good pigs at reasonable prices.
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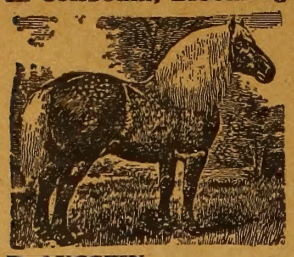

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